

# **A novel one-class SVM based negative data sampling method for reconstructing proteome-wide HTLV-human protein interaction networks**

Suyu Mei<sup>①②\*</sup>, Hao Zhu<sup>②§</sup>

<sup>①</sup>Software College, Shenyang Normal University, Shenyang, 110034, China

<sup>②</sup> Bioinformatics Section, School of Biomedical Sciences, Southern Medical University, Guangzhou, 510515, China

Email addresses: \* [meisygle@gmail.com](mailto:meisygle@gmail.com), § [zhuhao@smu.edu.cn](mailto:zhuhao@smu.edu.cn)

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1 [SECTION 1] Predicted Interactions
2
3
4 P0C206 Q9UID6 0.67061
5 P0C206 P27695 0.51734
6 P0C206 Q8N5I9 0.68336
7 P0C206 Q9Y536 0.22458
8 P0C206 Q9BZ01 0.2964
9 P0C206 P49589 0.47065
10 P0C206 Q15513 0.45994
11 P0C206 Q9Y234 0.3439
12 P0C206 A7MCY6 0.67345
13 P0C206 O95363 0.57495
14 P0C206 P33316 0.69159
15 P0C206 Q02386 0.28307
16 P0C206 Q96P71 0.64026
17 P0C206 Q9UBW7 0.85719
18 P0C206 Q9BUJ2 1.0681
19 P0C206 Q99990 0.70466
20 P0C206 O15481 0.027659
21 P0C206 Q96HA7 0.93145
22 P0C206 Q8HWS3 0.40281
23 P0C206 Q8N9K5 0.36383
24 P0C206 Q8N6G1 0.45994
25 P0C206 Q13439 1.0269
26 P0C206 Q96MC4 1.0112
27 P0C206 Q8TE85 0.34588
28 P0C206 O95271 0.73353
29 P0C206 Q5VUA4 0.70389
30 P0C206 Q76L83 0.71065
31 P0C206 Q5BJF2 0.43929
32 P0C206 Q9BPU9 0.30493
33 P0C206 Q9UNS1 0.68758
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35 P0C206 P61289 0.73647
36 P0C206 Q96AQ1 0.84842
37 P0C206 Q9H714 0.57011
38 P0C206 Q96NJ1 0.45994
39 P0C206 Q8TCI5 0.73614
40 P0C206 Q53GS7 0.87269
41 P0C206 Q9NQC7 0.28937
42 P0C206 O43598 0.26694
43 P0C206 Q9NUA8 0.27909
44 P0C206 Q8TF30 0.071289
45 P0C206 A6NGQ2 0.42903
46 P0C206 Q7Z3C6 0.41401
47 P0C206 Q4L180 0.39487
48 P0C206 O43829 0.87864
49 P0C206 Q8N720 1.1512
50 P0C206 Q96G28 0.44707
51 P0C206 Q6IEG0 0.4779
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54 P0C206 Q5TG92 0.65844
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56 P0C206 Q9NY87 0.74123
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59 P0C206 Q5JTW2 0.52138
60 P0C206 Q13112 1.5933
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62 P0C206 Q8N5N7 0.62111
63 P0C206 Q8IWA6 0.18518
64 P0C206 Q6P2C0 0.4657
65 P0C206 O00488 0.38651
66 P0C206 Q9Y3S2 0.36636
67 P0C206 Q9UNN5 0.71115
68 P0C206 P28698 0.89834
69 P0C206 Q9H1K1 1.0692
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71 P0C206 Q8IXW0 0.55678
72 P0C206 Q9P1G2 0.44026
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85	POC206	Q96EE3	0.67238
86	POC206	Q9BQ66	0.72851
87	POC206	Q6PJG2	0.93996
88	POC206	Q8IW03	0.081664
89	POC206	Q9BYR7	1.134
90	POC206	O14604	0.69497
91	POC206	Q8TC94	0.13938
92	POC206	Q9Y253	0.4797
93	POC206	Q96A33	0.19594
94	POC206	Q9HBM1	0.86714
95	POC206	Q6UXU6	1.1632
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97	POC206	Q86VD1	0.47043
98	POC206	O14964	0.8046
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176	POC206	Q8N9T8	1.3412
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182	POC206	O60716	0.56186
183	POC206	Q9H8H0	0.32773
184	POC206	Q14320	0.078139
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186	POC206	P78358	0.80113
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189	POC206	Q6EEV4	0.45994
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212	POC206	P10588	0.35225
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471	POC206	Q15270	0.2532
472	POC206	Q9BTP6	0.62062
473	POC206	Q9UN37	0.61146
474	POC206	Q9Y399	1.0633
475	POC206	Q96M02	0.21817
476	POC206	Q05195	0.63866
477	POC206	P16383	0.87218
478	POC206	Q8IXS0	0.68336
479	POC206	Q19AV6	1.2692
480	POC206	Q96FZ2	1.2242
481	POC206	Q96MP5	0.39903
482	POC206	Q9HCK8	0.49375
483	POC206	Q8N8E3	0.35035
484	POC206	P60709	0.17471
485	POC206	Q15329	1.3819
486	POC206	P50402	0.45303
487	POC206	Q9NQE9	0.49508
488	POC206	Q9UKF6	0.70266
489	POC206	Q8NHW5	0.2549
490	POC206	Q6ZUT1	0.45994
491	POC206	Q13601	0.47874
492	POC206	Q92575	1.0929
493	POC206	Q8N9N2	0.42895
494	POC206	Q96T37	0.28563
495	POC206	O95359	0.48586
496	POC206	O60481	0.55928
497	POC206	Q96G21	0.99509
498	POC206	O94986	1.3638
499	POC206	Q9Y2M0	0.52643
500	POC206	Q9HB19	0.7107
501	POC206	P28715	0.40204
502	POC206	O43159	0.95767
503	POC206	Q14103	0.73151
504	POC206	P13010	0.54323
505	POC206	Q86Y37	0.094785
506	POC206	Q9BW61	0.66643
507	POC206	Q68DH5	0.79899
508	POC206	Q8N187	0.77288
509	POC206	Q9NWM3	0.2067
510	POC206	Q96L21	0.60033
511	POC206	Q00444	0.34845
512	POC206	P27635	0.63172
513	POC206	Q9BQE6	0.52637
514	POC206	Q9H6K5	0.68336
515	POC206	P49336	0.44785
516	POC206	Q96BV0	0.23399
517	POC206	P0CJ90	0.386
518	POC206	Q587I9	0.46076
519	POC206	Q9NX46	0.56967
520	POC206	Q9UM54	0.055852
521	POC206	P59991	0.86576
522	POC206	Q12988	0.52849
523	POC206	Q9NQV6	0.20949
524	POC206	P14678	0.72003
525	POC206	Q9ULR5	0.61475
526	POC206	P17661	0.51697
527	POC206	P69208	0.45994
528	POC206	Q496M5	0.40439
529	POC206	P31483	0.28104
530	POC206	P78352	0.63814
531	POC206	O95478	0.45005
532	POC206	Q9Y295	0.27848

533	POC206	Q32MQ0	0.64868
534	POC206	Q49AM1	0.50031
535	POC206	Q8WTP9	1.1532
536	POC206	P54725	0.71405
537	POC206	Q96DB5	0.56768
538	POC206	Q6P1M9	0.46746
539	POC206	Q9BVI4	0.50628
540	POC206	Q9Y2D1	1.2663
541	POC206	O15172	0.26256
542	POC206	Q8IZD9	0.27167
543	POC206	Q8WU58	0.21718
544	POC206	P06396	0.45927
545	POC206	Q63HK3	0.54321
546	POC206	Q9HCK5	0.67384
547	POC206	Q7Z7K0	0.13369
548	POC206	Q6K0P9	0.37056
549	POC206	Q9Y5J6	0.47754
550	POC206	Q9BVA0	0.35273
551	POC206	Q9UM00	1.3473
552	POC206	O60508	0.36514
553	POC206	P0C025	0.61014
554	POC206	Q7Z2X4	0.30391
555	POC206	Q9GZV4	0.62652
556	POC206	Q5VU69	0.3862
557	POC206	P0CG12	1.4208
558	POC206	Q8N9S9	0.26884
559	POC206	Q7Z3I7	0.30827
560	POC206	Q8TA86	0.95792
561	POC206	Q9HAH7	0.60808
562	POC206	Q9UHL9	0.44636
563	POC206	Q7L0X2	0.35135
564	POC206	Q8TAF3	0.78763
565	POC206	P50452	0.71182
566	POC206	Q8WWH5	0.42218
567	POC206	Q9NRH1	0.33653
568	POC206	Q9BTK2	0.0096923
569	POC206	P62253	0.72675
570	POC206	Q96NI8	0.47036
571	POC206	Q15466	0.68631
572	POC206	Q96LV5	0.086646
573	POC206	Q6PCD5	0.33805
574	POC206	Q9UJN7	0.32372
575	POC206	P82930	0.85892
576	POC206	Q5SWW7	0.45994
577	POC206	Q9NSG2	0.55589
578	POC206	Q96G23	0.28723
579	POC206	Q8NA47	0.68336
580	POC206	Q9H4A6	0.53062
581	POC206	O75934	0.72801
582	POC206	Q6PD62	0.72652
583	POC206	Q96MW1	0.68336
584	POC206	Q9UPV7	0.31596
585	POC206	Q17RA5	0.45994
586	POC206	P01358	0.45994
587	POC206	Q8WU90	1.154
588	POC206	O75832	0.37767
589	POC206	Q99865	0.57702
590	POC206	Q9BZI7	0.64865
591	POC206	Q96N22	0.53747
592	POC206	Q504Q3	0.21137
593	POC206	A8MX4	0.4071
594	POC206	Q96AY2	0.97003
595	POC206	Q9BUY5	0.45613
596	POC206	Q96RY5	1.058
597	POC206	P53701	0.57953
598	POC206	Q8N9N5	0.46538
599	POC206	Q6IPU0	0.67548
600	POC206	O15360	0.97249
601	POC206	P45973	0.81314
602	POC206	Q96RT1	0.3785
603	POC206	Q13568	1.0643
604	POC206	Q0VDD7	1.3978
605	POC206	A3QJZ6	0.073657
606	POC206	Q8TB03	0.72008
607	POC206	Q96MM3	0.2781
608	POC206	O60384	0.57495

609	POC206	Q8NAQ8	1.3423
610	POC206	P35398	0.50244
611	POC206	P23193	1.3679
612	POC206	E9PQR5	0.08936
613	POC206	Q17RS7	0.14099
614	POC206	Q92830	0.71513
615	POC206	P20042	0.44997
616	POC206	O94842	0.78534
617	POC206	Q6NSI4	0.15933
618	POC206	Q9UDY4	0.92012
619	POC206	P0C841	0.45994
620	POC206	Q96RK0	1.1504
621	POC206	P83436	0.59233
622	POC206	E9PJI5	0.72101
623	POC206	O94973	0.48509
624	POC206	O75192	0.49899
625	POC206	P0CL81	0.23762
626	POC206	Q5XKP0	0.42743
627	POC206	Q96AB6	0.26133
628	POC206	Q96D15	0.34601
629	POC206	Q96PG8	0.45994
630	POC206	Q96PE7	0.11384
631	POC206	Q15365	0.9329
632	POC206	P36543	0.30358
633	POC206	P09917	0.26797
634	POC206	Q14588	0.40539
635	POC206	Q9HCK1	0.64559
636	POC206	P08779	0.80166
637	POC206	Q9UHN1	0.23799
638	POC206	Q5SXL2	0.44555
639	POC206	P18124	0.59832
640	POC206	O00167	0.8628
641	POC206	Q96HR3	0.83525
642	POC206	P61024	0.78423
643	POC206	Q7Z398	0.31903
644	POC206	Q8WW35	0.44439
645	POC206	Q06546	1.3303
646	POC206	Q8NEZ2	0.94221
647	POC206	Q13077	0.43458
648	POC206	Q96DC7	1.4428
649	POC206	P49790	1.1523
650	POC206	Q9GZZ1	0.53205
651	POC206	Q9BYG3	0.28447
652	POC206	Q8WXI4	0.017703
653	POC206	Q9NSP4	0.22121
654	POC206	Q8TEB1	0.37887
655	POC206	Q6IEE7	1.0593
656	POC206	Q96ST3	0.83196
657	POC206	O14828	0.64174
658	POC206	Q9HB65	0.67616
659	POC206	Q8WWY6	0.58122
660	POC206	P07196	0.5814
661	POC206	Q8N2H9	0.37097
662	POC206	Q6IS14	0.34917
663	POC206	Q9C0C7	0.23304
664	POC206	P39687	1.4932
665	POC206	Q9NPJ4	1.5675
666	POC206	Q03924	0.31278
667	POC206	Q15545	1.0289
668	POC206	Q495Z4	0.32772
669	POC206	P0CJ76	0.67101
670	POC206	Q96N21	0.71403
671	POC206	Q8WV22	0.39066
672	POC206	Q07955	0.50015
673	POC206	Q9Y520	0.51481
674	POC206	Q9UI43	0.78209
675	POC206	O95149	0.45696
676	POC206	Q6ZMR3	0.52228
677	POC206	Q8NA19	0.52448
678	POC206	Q8NEF9	0.82072
679	POC206	P40305	0.60192
680	POC206	Q9H2F5	0.66307
681	POC206	O43711	0.4056
682	POC206	Q86TB9	0.85038
683	POC206	O14920	0.57448
684	POC206	Q7Z6M4	0.61351

685	POC206	Q5MJ09	0.21947
686	POC206	Q8IX21	0.049865
687	POC206	Q14739	0.34408
688	POC206	Q9BUG6	0.29094
689	POC206	P17026	0.27941
690	POC206	Q6ZW61	0.17608
691	POC206	P26447	0.3198
692	POC206	P26368	0.43622
693	POC206	P52298	0.47738
694	POC206	Q14687	0.44439
695	POC206	Q8IYM2	0.36694
696	POC206	Q9Y296	0.34086
697	POC206	Q8NA31	0.68632
698	POC206	Q8IXM3	0.54106
699	POC206	Q92556	0.36733
700	POC206	Q96S65	1.0506
701	POC206	Q99828	0.26431
702	POC206	Q96EL3	0.21655
703	POC206	Q8WUD4	0.19077
704	POC206	P35527	0.48752
705	POC206	P31269	0.71297
706	POC206	Q7Z2W9	0.079886
707	POC206	P31314	0.66102
708	POC206	Q96IR2	0.41874
709	POC206	Q96SN8	0.58654
710	POC206	Q9H201	0.26258
711	POC206	Q7RTU3	0.48008
712	POC206	Q14603	0.0072885
713	POC206	Q5U649	0.12751
714	POC206	Q16514	0.9371
715	POC206	Q8IXM6	0.60415
716	POC206	Q9H4P4	0.32954
717	POC206	Q9H790	0.27405
718	POC206	Q7Z2F6	0.4218
719	POC206	Q9GZM3	0.15285
720	POC206	Q6IV72	0.45163
721	POC206	P0CL82	0.23762
722	POC206	Q9BXL8	0.30845
723	POC206	P55265	0.40497
724	POC206	Q6VMQ6	1.0129
725	POC206	Q96HT8	1.5614
726	POC206	Q9NQ90	0.53974
727	POC206	Q15493	0.20555
728	POC206	Q95453	0.43914
729	POC206	P55198	1.1319
730	POC206	A6NCN8	0.68336
731	POC206	Q9P2Y5	0.49528
732	POC206	O00221	0.27519
733	POC206	P61576	0.50359
734	POC206	P38935	0.6136
735	POC206	Q6ZW54	1.1004
736	POC206	Q96F07	0.57279
737	POC206	P07864	0.54372
738	POC206	Q9H693	0.58133
739	POC206	Q5VWP2	0.12024
740	POC206	Q5JNZ3	0.39086
741	POC206	Q9Y324	0.85222
742	POC206	P55789	0.10759
743	POC206	A6NEL3	0.022964
744	POC206	Q96GI7	0.68336
745	POC206	P06401	0.30268
746	POC206	Q5VZL5	0.91626
747	POC206	Q86TC9	0.51442
748	POC206	Q9ULE0	0.12162
749	POC206	Q03701	0.54114
750	POC206	Q9H444	0.86899
751	POC206	Q06455	0.9131
752	POC206	Q9UHA4	0.1679
753	POC206	Q92844	0.61463
754	POC206	Q9GZU2	0.67638
755	POC206	Q9BYJ9	0.52927
756	POC206	P31749	0.56152
757	POC206	P78537	0.9721
758	POC206	Q8N6T3	0.15997
759	POC206	Q5T5D7	0.33408
760	POC206	Q5JSJ4	1.2839

761	POC206	Q92890	0.90286
762	POC206	O95251	1.0155
763	POC206	Q9Y6K1	0.49497
764	POC206	P62854	0.85697
765	POC206	O14867	0.47326
766	POC206	Q12796	1.55
767	POC206	Q5T1B0	0.016983
768	POC206	Q9UBI1	0.44439
769	POC206	Q8N883	0.2859
770	POC206	Q5T754	0.45994
771	POC206	Q96CS4	0.32718
772	POC206	Q5VWN6	0.24601
773	POC206	P27797	0.54923
774	POC206	Q7LBR1	1.0679
775	POC206	P40306	0.31308
776	POC206	O75865	0.74928
777	POC206	Q7Z3K6	0.75643
778	POC206	Q9UBC1	0.59693
779	POC206	O60393	0.23761
780	POC206	Q01538	0.2152
781	POC206	Q9HA92	0.41303
782	POC206	Q6A162	0.34578
783	POC206	Q9NWS8	0.64495
784	POC206	O75794	0.98134
785	POC206	Q9NXH3	0.35522
786	POC206	Q9Y2G2	0.5242
787	POC206	Q9H0U6	0.45345
788	POC206	Q14CS0	0.56088
789	POC206	Q8N535	0.49689
790	POC206	Q9NPF5	1.0678
791	POC206	Q9UHQ1	0.80194
792	POC206	Q8WV60	0.28447
793	POC206	Q5SY85	0.31086
794	POC206	Q96GA3	0.87235
795	POC206	P56715	0.19423
796	POC206	A6NGH7	0.36826
797	POC206	Q9C099	1.2464
798	POC206	Q8NC54	1.2653
799	POC206	Q5SRE5	0.72093
800	POC206	Q68E01	0.73664
801	POC206	P17677	0.19424
802	POC206	Q86VG3	0.7041
803	POC206	Q06330	0.60595
804	POC206	Q13469	1.1816
805	POC206	Q9UMS5	0.81781
806	POC206	Q8TD26	0.37272
807	POC206	Q9NP71	0.52818
808	POC206	Q86YG4	0.51948
809	POC206	P01008	0.32425
810	POC206	O75496	1.0106
811	POC206	Q9H299	0.21036
812	POC206	P49959	0.26337
813	POC206	Q9NP97	0.77463
814	POC206	Q9Y2Z4	0.31227
815	POC206	Q9ULX3	0.69101
816	POC206	Q7Z7J5	0.91923
817	POC206	Q9BXW4	0.41665
818	POC206	P28065	0.53911
819	POC206	Q86X60	0.39678
820	POC206	Q9HC77	0.97753
821	POC206	Q9Y6J3	0.45994
822	POC206	P40425	0.80071
823	POC206	Q502W6	0.050097
824	POC206	Q68DK7	0.86262
825	POC206	Q9BSV6	0.34842
826	POC206	Q9NYT6	0.29385
827	POC206	Q96GS4	1.1382
828	POC206	Q9NS18	0.27549
829	POC206	Q9UBV8	0.24574
830	POC206	Q14997	0.40744
831	POC206	Q75L30	0.45994
832	POC206	Q9UH92	0.97047
833	POC206	Q6UB98	0.54755
834	POC206	Q9H305	0.15928
835	POC206	P36639	0.54269
836	POC206	Q15543	1.1135



837	POC206	Q9H7T9	0.93227
838	POC206	Q9UBU8	0.93011
839	POC206	Q8N1P7	0.24644
840	POC206	Q86SQ7	1.0758
841	POC206	Q9Y6Q3	0.27243
842	POC206	P0CW23	0.49733
843	POC206	A8MTB1	0.45994
844	POC206	P98182	0.30392
845	POC206	Q9H0K4	0.74381
846	POC206	Q8NEQ6	0.40139
847	POC206	Q14530	0.40442
848	POC206	Q14008	1.0527
849	POC206	Q99504	0.71889
850	POC206	Q9UBP6	1.1592
851	POC206	Q9H840	0.8946
852	POC206	Q9NUQ3	0.8041
853	POC206	Q8N3X6	0.61212
854	POC206	Q92567	0.43814
855	POC206	Q9Y2A0	0.3178
856	POC206	Q9UBB4	0.94934
857	POC206	Q9NVN8	0.40151
858	POC206	Q9BUP3	0.17578
859	POC206	Q14576	0.56588
860	POC206	Q96Q89	0.65006
861	POC206	Q95260	0.21089
862	POC206	Q75396	0.39552
863	POC206	Q9NWS6	0.83133
864	POC206	Q9UL45	0.1916
865	POC206	Q8NFB5	0.73463
866	POC206	Q93100	0.31573
867	POC206	A8MXV4	0.55689
868	POC206	P0C5W0	0.27799
869	POC206	Q86UW9	1.1102
870	POC206	Q8NB50	0.41874
871	POC206	Q9GZQ3	1.0456
872	POC206	Q13432	0.60193
873	POC206	Q5U5X0	0.93861
874	POC206	Q9NRF9	0.15056
875	POC206	Q9UJQ4	0.26416
876	POC206	Q9Y2V7	0.11443
877	POC206	A4D1U4	0.39358
878	POC206	Q5VXD3	0.13086
879	POC206	Q9HAZ2	0.51229
880	POC206	Q9GZL8	0.40853
881	POC206	Q7Z4G1	1.4614
882	POC206	Q9BQ15	0.82136
883	POC206	Q12905	1.1105
884	POC206	Q9H4X1	0.93504
885	POC206	Q8TDN4	0.84469
886	POC206	Q96CB9	0.7484
887	POC206	Q9P032	0.59748
888	POC206	Q96DX5	1.1972
889	POC206	Q00512	0.95264
890	POC206	Q9HC52	0.92994
891	POC206	Q8N9F8	0.35984
892	POC206	P61581	0.95266
893	POC206	Q8WW12	0.744
894	POC206	P0DKV0	0.075957
895	POC206	Q96IZ0	0.89949
896	POC206	Q9BSU1	0.71197
897	POC206	Q5UIP0	0.96233
898	POC206	Q13127	0.58578
899	POC206	Q9NRG9	1.0109
900	POC206	Q6P575	0.10533
901	POC206	Q9BSF8	0.54755
902	POC206	Q9UJX3	0.85404
903	POC206	Q9NZI5	0.6508
904	POC206	Q60504	0.81164
905	POC206	Q95780	0.56457
906	POC206	P60673	0.32917
907	POC206	Q16222	0.2834
908	POC206	Q9BQC3	1.0327
909	POC206	P13682	0.35632
910	POC206	Q9BV47	0.50639
911	POC206	Q96ST8	1.1272
912	POC206	Q53H82	0.1428

913	POC206	Q8TF63	0.62813
914	POC206	Q7RTS9	1.2509
915	POC206	A6NK44	0.096969
916	POC206	Q96EU6	0.3161
917	POC206	Q9NUU7	0.21206
918	POC206	P50213	0.053586
919	POC206	Q9BUX1	0.85715
920	POC206	P49848	0.83232
921	POC206	Q9NTX9	0.14151
922	POC206	Q15397	0.17861
923	POC206	Q9Y6K9	0.97425
924	POC206	O75251	0.16788
925	POC206	Q9UPN9	0.6416
926	POC206	Q96EL2	0.4343
927	POC206	Q6ZN84	0.23342
928	POC206	Q9Y5Q3	0.92965
929	POC206	Q8IYN0	0.38973
930	POC206	P61326	0.84228
931	POC206	P14921	0.84886
932	POC206	Q05481	0.4071
933	POC206	Q9UQ84	0.38843
934	POC206	P78385	0.43636
935	POC206	Q15911	0.33207
936	POC206	Q9H900	0.66357
937	POC206	Q8N228	0.49155
938	POC206	Q9BYG7	0.32773
939	POC206	Q5U4N7	0.45994
940	POC206	Q9NXJ5	0.42188
941	POC206	P0C867	0.37401
942	POC206	P46976	0.51379
943	POC206	P47756	0.066274
944	POC206	O75420	0.44518
945	POC206	Q9Y6Q5	0.49988
946	POC206	P24522	0.69876
947	POC206	Q9HAY2	0.1174
948	POC206	Q8N815	0.010575
949	POC206	Q01081	0.51628
950	POC206	P49207	0.98382
951	POC206	Q8WZA8	0.45994
952	POC206	P78318	0.88865
953	POC206	Q9NY43	0.49939
954	POC206	Q96AP0	0.16702
955	POC206	Q3SY56	0.24797
956	POC206	Q9NSU2	0.15836
957	POC206	Q96LP2	0.12638
958	POC206	Q99766	0.70933
959	POC206	Q86Z20	1.1206
960	POC206	Q92845	0.31085
961	POC206	Q8IWE5	0.53434
962	POC206	Q9NSI6	0.95353
963	POC206	Q8TF01	0.89109
964	POC206	Q0VGE8	0.30062
965	POC206	P56278	0.18714
966	POC206	P51532	0.50506
967	POC206	P26651	0.80832
968	POC206	P81274	0.65032
969	POC206	Q8IZH2	0.20087
970	POC206	Q06416	0.43565
971	POC206	Q9NPI1	1.0999
972	POC206	O00291	0.63072
973	POC206	Q14681	0.13145
974	POC206	Q9NZM5	0.44224
975	POC206	Q9NV88	0.70712
976	POC206	Q9Y4L5	0.55355
977	POC206	Q12815	0.47407
978	POC206	Q9BQA1	1.0734
979	POC206	Q8TCS8	0.24059
980	POC206	Q6ZTR7	0.069073
981	POC206	P35251	0.51174
982	POC206	Q86W50	0.47207
983	POC206	O15061	0.82205
984	POC206	P60174	0.19452
985	POC206	Q96HA9	0.55851
986	POC206	Q9P2G1	0.49231
987	POC206	Q07627	0.4802
988	POC206	O00743	0.90805

989	POC206	Q5TI25	1.4923
990	POC206	Q6PF04	0.30822
991	POC206	Q9UBP0	0.33163
992	POC206	Q5SNX5	0.45994
993	POC206	Q5BJF6	0.64643
994	POC206	Q9UMY1	1.0385
995	POC206	Q8NCN2	0.41273
996	POC206	Q92572	0.57581
997	POC206	Q7Z6J0	0.43295
998	POC206	Q9NSA3	0.86458
999	POC206	Q95684	0.9284
1000	POC206	Q8WTX7	0.54932
1001	POC206	Q17RN3	0.39948
1002	POC206	Q9UBC9	0.61185
1003	POC206	Q6V702	0.26627
1004	POC206	Q9Y2D5	0.25268
1005	POC206	Q9HAW0	0.69666
1006	POC206	Q9NZ42	0.42733
1007	POC206	Q9Y4A8	0.60133
1008	POC206	Q86UU0	0.9748
1009	POC206	Q13114	0.49486
1010	POC206	Q9Y242	0.45995
1011	POC206	P0CB43	0.33728
1012	POC206	Q5K130	0.068669
1013	POC206	Q9BQ48	0.83316
1014	POC206	Q08AG5	0.61551
1015	POC206	Q9NV44	0.16914
1016	POC206	Q96KR4	0.1757
1017	POC206	Q5MJ68	0.41741
1018	POC206	Q8WWX9	0.66333
1019	POC206	Q9NS25	0.86383
1020	POC206	Q9HAA7	0.067235
1021	POC206	Q5VY09	0.86655
1022	POC206	Q9Y6R9	0.70707
1023	POC206	Q16537	0.48604
1024	POC206	Q6FI81	0.56472
1025	POC206	Q9ULM3	0.90573
1026	POC206	Q9NR55	0.45577
1027	POC206	Q9H993	0.053384
1028	POC206	Q9H6Q3	0.33829
1029	POC206	Q9BYE3	0.45994
1030	POC206	Q49B96	0.49621
1031	POC206	O43592	0.44506
1032	POC206	Q9UEU5	0.42333
1033	POC206	Q96C86	0.9379
1034	POC206	O43791	0.64067
1035	POC206	B4DU55	0.39689
1036	POC206	Q86U38	0.21007
1037	POC206	Q9NVW2	0.53706
1038	POC206	O43255	0.49319
1039	POC206	Q8TC71	0.56135
1040	POC206	Q6NX49	0.27546
1041	POC206	Q9UC06	0.33909
1042	POC206	Q9NZL9	0.15157
1043	POC206	Q8TAK5	0.62337
1044	POC206	Q9BV20	0.36437
1045	POC206	Q8N8U3	0.29451
1046	POC206	O60784	0.47803
1047	POC206	P62879	0.57557
1048	POC206	Q969F2	0.19475
1049	POC206	Q9GZU7	0.6601
1050	POC206	Q6L9T8	0.43017
1051	POC206	Q16186	0.69026
1052	POC206	Q6ZRS4	0.65291
1053	POC206	Q641Q2	0.92761
1054	POC206	P36954	0.31415
1055	POC206	Q9BV86	0.45907
1056	POC206	O75123	0.29797
1057	POC206	Q9Y3B6	0.83813
1058	POC206	Q9NX53	0.44439
1059	POC206	Q02078	0.47642
1060	POC206	P35325	0.45994
1061	POC206	Q147U1	0.34723
1062	POC206	Q96N11	0.27204
1063	POC206	Q9UDW1	0.17374
1064	POC206	Q14586	0.29385

1065	POC206	O15266	0.61793
1066	POC206	P55036	0.44751
1067	POC206	Q969W3	0.97891
1068	POC206	Q9ULP0	0.21086
1069	POC206	Q9UNK9	0.25515
1070	POC206	Q8ND56	0.79396
1071	POC206	Q99708	0.82683
1072	POC206	Q9P086	1.1227
1073	POC206	Q96PE6	0.29519
1074	POC206	A8MVM7	0.45994
1075	POC206	Q9GZN7	0.39004
1076	POC206	P43358	0.50382
1077	POC206	A6NNA5	0.16039
1078	POC206	Q13263	0.30807
1079	POC206	Q9UKK6	0.82358
1080	POC206	Q8N7L0	0.32028
1081	POC206	Q9Y3D8	0.2607
1082	POC206	Q8N726	0.65143
1083	POC206	Q9BRT2	0.51252
1084	POC206	Q13526	0.63955
1085	POC206	Q15361	0.90031
1086	POC206	A6NKC0	0.49928
1087	POC206	Q9UII5	0.39483
1088	POC206	P50750	0.50326
1089	POC206	Q8WVI7	0.15166
1090	POC206	Q15696	0.2593
1091	POC206	P0CJ72	0.67101
1092	POC206	Q15019	0.27956
1093	POC206	Q3LI77	0.12421
1094	POC206	Q5TGS1	0.59711
1095	POC206	Q8NA96	0.15893
1096	POC206	O94864	0.6355
1097	POC206	Q8N6I1	0.83629
1098	POC206	P52741	0.37667
1099	POC206	Q53H64	0.13726
1100	POC206	O95602	0.82053
1101	POC206	Q8IVM0	0.66879
1102	POC206	P30307	0.76403
1103	POC206	O75474	1.136
1104	POC206	Q9Y2N7	0.64748
1105	POC206	P43356	1.0607
1106	POC206	Q9H981	1.3632
1107	POC206	Q96KS0	0.16001
1108	POC206	Q5VUG0	0.451
1109	POC206	A6NGD5	0.37883
1110	POC206	Q8IYW5	0.37874
1111	POC206	Q3C1V9	0.41351
1112	POC206	Q9BRQ4	0.2872
1113	POC206	Q86Y26	0.69223
1114	POC206	Q5TEA3	0.2803
1115	POC206	O95376	0.50131
1116	POC206	P13533	0.26858
1117	POC206	B7Z6K7	0.28545
1118	POC206	Q8NAJ2	0.11112
1119	POC206	Q9HD34	0.66602
1120	POC206	Q9Y3E7	0.91701
1121	POC206	Q9BX40	0.80798
1122	POC206	Q9NR28	0.9096
1123	POC206	Q9BTE1	0.3044
1124	POC206	Q8TD86	0.41191
1125	POC206	Q14CZ0	1.4626
1126	POC206	O96017	0.80044
1127	POC206	Q7Z2V1	0.45994
1128	POC206	Q9H6F5	0.41544
1129	POC206	Q5JQC9	0.32566
1130	POC206	Q8IYU4	0.053808
1131	POC206	Q9H4I2	0.92884
1132	POC206	P02100	0.41469
1133	POC206	Q9BT43	0.040658
1134	POC206	Q8WUU5	0.46223
1135	POC206	B1AL46	0.75244
1136	POC206	Q9UNH7	0.32572
1137	POC206	P15407	0.63396
1138	POC206	Q9BVM4	0.37741
1139	POC206	P02538	0.77159
1140	POC206	A6NFF2	0.18976

1141	POC206	P57088	0.76745
1142	POC206	Q9Y6Q2	0.25026
1143	POC206	P78364	0.22691
1144	POC206	Q9BZR8	0.52756
1145	POC206	Q8N699	0.76264
1146	POC206	Q13309	0.54771
1147	POC206	Q9Y5U8	0.45702
1148	POC206	P62081	0.97133
1149	POC206	P20226	0.96825
1150	POC206	P12525	0.32741
1151	POC206	P69892	0.41469
1152	POC206	Q5TD94	0.3165
1153	POC206	A8MTZ7	0.29274
1154	POC206	Q8N3V7	0.80028
1155	POC206	Q9Y3D3	0.74208
1156	POC206	Q9UPM9	0.059991
1157	POC206	Q9BT92	0.77193
1158	POC206	O00308	0.23642
1159	POC206	O75145	0.57629
1160	POC206	Q14137	0.91295
1161	POC206	Q13642	0.57289
1162	POC206	P11161	0.53121
1163	POC206	P04156	0.59323
1164	POC206	Q8IYX0	0.56946
1165	POC206	Q8NDZ9	0.45994
1166	POC206	Q9UBB5	1.311
1167	POC206	Q8IYN6	0.80301
1168	POC206	Q8NC96	0.40991
1169	POC206	Q6X4T0	0.29568
1170	POC206	O43365	0.47977
1171	POC206	P17031	0.36831
1172	POC206	Q09161	0.69
1173	POC206	Q9P015	0.61549
1174	POC206	Q9BXY8	0.7721
1175	POC206	Q9HAU4	0.39974
1176	POC206	Q86VK4	0.20949
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1178	POC206	Q9NZT2	0.19663
1179	POC206	Q86UT8	1.1498
1180	POC206	Q6ZNM6	0.85534
1181	POC206	Q9UDY8	0.27929
1182	POC206	Q96MT3	1.1208
1183	POC206	Q04743	0.28418
1184	POC206	P18545	0.44613
1185	POC206	P53618	0.8281
1186	POC206	Q9P299	0.43683
1187	POC206	Q9BVP2	0.30254
1188	POC206	O43747	0.77238
1189	POC206	O43920	0.84323
1190	POC206	Q15544	1.1293
1191	POC206	Q5VSL9	0.9274
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1195	POC206	Q9HCC9	0.61181
1196	POC206	Q9UHQ7	0.52631
1197	POC206	Q9BXF6	0.77774
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1202	POC206	Q9H9Q2	0.35853
1203	POC206	P05114	0.40302
1204	POC206	Q9Y287	0.32435
1205	POC206	Q9NY12	0.3828
1206	POC206	Q9NY30	0.36849
1207	POC206	Q9BVC5	0.44263
1208	POC206	O60759	0.52477
1209	POC206	Q8WY54	0.97638
1210	POC206	P18583	0.2879
1211	POC206	A2RRD8	0.39805
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1214	POC206	P16220	0.86516
1215	POC206	Q9P2X8	0.16535
1216	POC206	Q9NW07	0.32527

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1218	POC206	Q8NEU8	0.5843
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1220	POC206	Q6P050	0.85709
1221	POC206	P17275	0.904
1222	POC206	Q9Y5R6	0.033891
1223	POC206	Q9P000	0.38183
1224	POC206	Q6P6B1	0.68336
1225	POC206	Q9H579	0.020269
1226	POC206	Q9NVV5	0.49977
1227	POC206	O14948	0.50862
1228	POC206	Q9GZT9	0.314
1229	POC206	O60518	1.1138
1230	POC206	Q68DL7	0.45994
1231	POC206	O95633	0.24449
1232	POC206	P09067	0.15039
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1235	POC206	P10074	0.57889
1236	POC206	Q06787	0.8521
1237	POC206	A6NIY4	0.51209
1238	POC206	Q1A5X6	0.68336
1239	POC206	Q8IYW2	0.45994
1240	POC206	O75884	1.2258
1241	POC206	O75607	0.79643
1242	POC206	O94855	0.53122
1243	POC206	P30153	0.57027
1244	POC206	Q8TAY7	1.6967
1245	POC206	P39656	0.389
1246	POC206	Q9UL42	0.96895
1247	POC206	O43516	0.36421
1248	POC206	Q9NR33	0.1454
1249	POC206	Q8IVT2	0.87342
1250	POC206	Q3SYG4	0.56789
1251	POC206	O14737	0.41164
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1255	POC206	A8MS94	0.18056
1256	POC206	Q9Y6D9	1.0958
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1259	POC206	Q5JXB2	0.64704
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1261	POC206	Q5T3J3	1.1546
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1263	POC206	Q8TAM2	0.27841
1264	POC206	Q15700	0.24372
1265	POC206	Q9BTP7	1.2326
1266	POC206	Q3ZCV2	0.68336
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1268	POC206	Q9UFV3	0.16958
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1270	POC206	Q96GX8	0.68336
1271	POC206	Q8NI27	0.58597
1272	POC206	Q96N23	0.57802
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1280	POC206	P0C838	0.53888
1281	POC206	O95810	0.41061
1282	POC206	Q86WI3	0.58204
1283	POC206	P40121	0.51931
1284	POC206	Q8NA72	0.47201
1285	POC206	Q96SL8	0.3695
1286	POC206	Q8WXD5	0.89494
1287	POC206	Q14692	0.42338
1288	POC206	P17544	1.1882
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1290	POC206	A6NMK8	0.70781
1291	POC206	Q7L1V2	1.0651
1292	POC206	Q9H5F2	0.39281

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1296	POC206	Q17R31	0.22442
1297	POC206	Q5TG53	0.45994
1298	POC206	Q9H6J7	0.33913
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1302	POC206	P0C7X5	0.37522
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1305	POC206	Q96C90	0.76396
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1307	POC206	O94964	0.95936
1308	POC206	Q8WUA4	0.26386
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1313	POC206	O43427	0.15892
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1315	POC206	Q14653	0.21863
1316	POC206	Q9NWN3	0.47762
1317	POC206	P54920	0.50775
1318	POC206	Q86YC2	0.82878
1319	POC206	Q9BVV6	0.45994
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1326	POC206	Q96JG6	0.1211
1327	POC206	Q8IV20	0.37376
1328	POC206	Q5H9R7	1.0285
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1331	POC206	Q92562	0.39743
1332	POC206	P51161	0.28262
1333	POC206	Q9H4B0	0.63438
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1336	POC206	P29144	0.04937
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1338	POC206	P25490	0.35169
1339	POC206	Q9BZZ5	0.53608
1340	POC206	O43313	0.33183
1341	POC206	Q8IY51	0.047276
1342	POC206	Q9Y623	0.33462
1343	POC206	O75290	0.51617
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1345	POC206	Q8NEH6	0.92279
1346	POC206	Q9BR76	0.42234
1347	POC206	Q32M84	0.23261
1348	POC206	O43815	0.34237
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1350	POC206	Q6ICC9	0.58561
1351	POC206	Q9H8V8	0.45994
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1359	POC206	Q5VXH4	0.41864
1360	POC206	Q8NG27	0.41186
1361	POC206	Q05D60	0.15401
1362	POC206	Q96G03	0.60072
1363	POC206	Q9UIC8	0.37924
1364	POC206	Q9UJ55	0.1174
1365	POC206	Q8IXP5	0.68336
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1368	POC206	Q969M7	0.5414

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1370	POC206	Q86UP8	0.23143
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1372	POC206	Q96I23	0.38753
1373	POC206	Q8N6L7	1.1172
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1375	POC206	Q9ULW0	1.0585
1376	POC206	Q9ULD0	0.28768
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1378	POC206	Q9BU61	0.81398
1379	POC206	P22061	0.51562
1380	POC206	Q96RT7	0.54231
1381	POC206	Q3SXR2	0.23216
1382	POC206	Q04323	0.37073
1383	POC206	Q08AD1	0.70422
1384	POC206	Q7L5A3	0.50914
1385	POC206	O75444	0.5264
1386	POC206	Q96PI1	0.79757
1387	POC206	Q7Z4W3	0.45994
1388	POC206	Q9UK73	0.82379
1389	POC206	Q96B49	0.82081
1390	POC206	Q9HBE1	0.31465
1391	POC206	P82914	0.76238
1392	POC206	Q9UJL9	0.29335
1393	POC206	Q7Z6I5	0.84166
1394	POC206	Q9HCU8	0.5684
1395	POC206	Q9UGC7	0.45074
1396	POC206	O95424	0.54864
1397	POC206	Q5T5A8	0.45994
1398	POC206	P79522	0.56154
1399	POC206	P18754	1.2725
1400	POC206	P02794	0.82237
1401	POC206	P18850	0.68405
1402	POC206	Q9UL41	0.70306
1403	POC206	Q8IY31	0.68651
1404	POC206	Q9BPY3	0.28704
1405	POC206	Q96HI0	0.67507
1406	POC206	Q330K2	0.3817
1407	POC206	Q9UHV2	1.5855
1408	POC206	O60664	0.7902
1409	POC206	O75170	0.88321
1410	POC206	Q8IUF8	0.62298
1411	POC206	Q07021	0.86745
1412	POC206	Q14966	0.10912
1413	POC206	Q96F45	0.30231
1414	POC206	P49910	0.92544
1415	POC206	O43759	0.60017
1416	POC206	O95164	0.83078
1417	POC206	Q13084	1.1842
1418	POC206	Q9H4M3	0.35409
1419	POC206	Q8N635	0.041279
1420	POC206	Q8NCF5	0.64262
1421	POC206	Q7L2Z9	0.21203
1422	POC206	O75419	0.99746
1423	POC206	Q9UNY4	0.64547
1424	POC206	Q96HJ5	0.15878
1425	POC206	Q92733	0.97586
1426	POC206	Q8IWL8	0.90287
1427	POC206	P0C7V6	0.7778
1428	POC206	Q9P243	0.53273
1429	POC206	P41236	0.5748
1430	POC206	Q14690	0.54878
1431	POC206	Q9BV29	0.1336
1432	POC206	Q96E40	0.077606
1433	POC206	O15040	0.44439
1434	POC206	O75334	0.6677
1435	POC206	Q8NDA8	0.64213
1436	POC206	P0C7T7	0.45994
1437	POC206	Q9NTU4	0.50369
1438	POC206	Q8WUN7	0.54755
1439	POC206	Q3SY46	0.60142
1440	POC206	Q9NPD3	0.29865
1441	POC206	Q86XK2	0.91878
1442	POC206	Q92664	0.27567
1443	POC206	A1L190	0.94073
1444	POC206	Q96PV7	0.79661



1445	POC206	A5PLL1	0.33985
1446	POC206	Q5T686	0.6175
1447	POC206	Q5SQN1	0.47129
1448	POC206	Q6ZSB9	0.28894
1449	POC206	O60225	0.26627
1450	POC206	O97980	0.15893
1451	POC206	P41252	0.70722
1452	POC206	Q9BRU2	0.62874
1453	POC206	Q96FX8	0.69182
1454	POC206	Q9NRS6	0.14736
1455	POC206	P57060	0.57309
1456	POC206	Q13156	0.30586
1457	POC206	P78395	0.84526
1458	POC206	Q8N814	0.9729
1459	POC206	Q86YF9	0.27052
1460	POC206	Q5T1J5	0.95874
1461	POC206	O95721	0.52346
1462	POC206	P51955	0.37674
1463	POC206	Q7Z5B4	0.67867
1464	POC206	Q13023	0.69275
1465	POC206	Q8N944	1.1573
1466	POC206	Q9BU68	0.57426
1467	POC206	Q8N5C8	0.61256
1468	POC206	Q8NDZ2	0.32649
1469	POC206	Q8N7R0	0.43565
1470	POC206	Q96KN1	0.54457
1471	POC206	Q08752	0.44414
1472	POC206	P86496	0.45994
1473	POC206	Q5JTH9	0.44558
1474	POC206	O60907	0.8609
1475	POC206	Q8N6T0	0.37134
1476	POC206	Q56P42	0.33985
1477	POC206	P30419	0.30553
1478	POC206	P15502	0.30878
1479	POC206	Q56P03	0.59057
1480	POC206	O43402	0.84672
1481	POC206	Q8WYH8	0.73603
1482	POC206	Q96N95	0.50258
1483	POC206	Q99622	0.29006
1484	POC206	O95049	0.61011
1485	POC206	Q7L5Y6	0.11206
1486	POC206	Q8TB69	0.53104
1487	POC206	Q9BT49	0.73716
1488	POC206	Q9Y4P1	0.41875
1489	POC206	O43812	0.43559
1490	POC206	Q14258	1.0829
1491	POC206	Q6W2J9	0.51593
1492	POC206	A0PJX2	0.42503
1493	POC206	Q6PI48	0.60863
1494	POC206	O94913	0.33916
1495	POC206	Q86XL3	0.47179
1496	POC206	Q9Y6N9	0.40421
1497	POC206	Q49AA0	0.48721
1498	POC206	P41212	0.90467
1499	POC206	Q9UD71	0.90743
1500	POC206	Q9UGP4	0.60355
1501	POC206	Q9C0B9	0.25202
1502	POC206	Q6UN15	1.0007
1503	POC206	Q9H9T3	0.93305
1504	POC206	P62241	0.64704
1505	POC206	Q5RKV6	0.15456
1506	POC206	Q4U2R6	0.9481
1507	POC206	Q7L190	0.92378
1508	POC206	Q9BV68	0.49231
1509	POC206	Q9NSC2	0.36996
1510	POC206	Q8N5R6	0.6717
1511	POC206	O75154	0.99987
1512	POC206	Q96I27	0.28365
1513	POC206	P54105	0.94855
1514	POC206	Q96HG1	0.45994
1515	POC206	A8MVP8	0.10538
1516	POC206	O14521	0.55207
1517	POC206	P48382	1.0915
1518	POC206	Q96BP3	0.26092
1519	POC206	Q5VXU3	0.51967
1520	POC206	Q99873	0.67475

1521	POC206	Q9NRR8	0.7446
1522	POC206	Q9NV92	0.20038
1523	POC206	P25205	0.48836
1524	POC206	A6NNH0	0.87489
1525	POC206	Q969F9	0.94986
1526	POC206	O75381	0.50595
1527	POC206	Q5T871	0.45994
1528	POC206	P60371	0.72851
1529	POC206	P62304	0.62822
1530	POC206	Q9BT04	0.59002
1531	POC206	P52701	0.11164
1532	POC206	Q9UC07	0.37223
1533	POC206	A6NEV1	0.6609
1534	POC206	P13489	0.58126
1535	POC206	Q05066	0.62321
1536	POC206	Q9Y2G0	0.45836
1537	POC206	Q9NR11	0.28626
1538	POC206	Q9Y6D6	0.69685
1539	POC206	Q96BW1	0.33985
1540	POC206	O75582	0.32125
1541	POC206	Q9BYP8	0.45994
1542	POC206	Q9Y2Y9	0.97249
1543	POC206	Q8IUI4	0.31467
1544	POC206	Q9NVD7	0.3458
1545	POC206	Q86WC6	0.34507
1546	POC206	Q15697	0.66939
1547	POC206	Q8N3X1	0.32773
1548	POC206	P62244	0.79259
1549	POC206	O14744	1.0179
1550	POC206	Q5W0A0	0.3226
1551	POC206	Q96EP1	0.74911
1552	POC206	Q5HYJ3	0.50408
1553	POC206	P25787	0.54434
1554	POC206	Q99933	0.85789
1555	POC206	Q5CZA5	0.39689
1556	POC206	P51587	0.2186
1557	POC206	P78414	0.31537
1558	POC206	Q05519	0.5716
1559	POC206	Q9BYP9	0.72851
1560	POC206	Q9Y2M2	0.44787
1561	POC206	Q86VP1	0.52862
1562	POC206	O75306	0.56994
1563	POC206	Q15233	0.63651
1564	POC206	A4D161	0.0026307
1565	POC206	Q14315	0.40431
1566	POC206	P04732	0.45193
1567	POC206	A6NDB9	0.4627
1568	POC206	Q8IWD4	0.68336
1569	POC206	P48634	1.0004
1570	POC206	Q5F1R6	0.18027
1571	POC206	Q8IYB3	0.44399
1572	POC206	Q9C0D2	0.86056
1573	POC206	A6NCL1	0.33539
1574	POC206	Q8IY85	0.43791
1575	POC206	Q8NG48	0.079141
1576	POC206	A9QM74	0.73044
1577	POC206	Q96AV8	0.47687
1578	POC206	Q5T5S1	0.59845
1579	POC206	P12074	0.33271
1580	POC206	P45984	0.38796
1581	POC206	P50914	0.92005
1582	POC206	Q15121	0.58584
1583	POC206	Q01860	0.75656
1584	POC206	Q6ZS72	0.19224
1585	POC206	Q32P41	0.49726
1586	POC206	Q9H7E2	0.58973
1587	POC206	Q8NEP4	0.68336
1588	POC206	Q96A04	1.0116
1589	POC206	Q7Z7K2	0.25189
1590	POC206	O15258	0.49144
1591	POC206	Q9Y4Z2	0.29028
1592	POC206	Q6P3X8	0.61242
1593	POC206	Q9UJX5	0.88962
1594	POC206	Q5TZA2	0.82286
1595	POC206	A1A4T8	0.00048364
1596	POC206	P51531	0.75402

1597	POC206	Q96GJ1	0.22519
1598	POC206	P56589	0.048978
1599	POC206	O75382	0.53571
1600	POC206	Q9BYC8	0.91791
1601	POC206	Q6P2H3	0.79443
1602	POC206	Q8N2G8	0.29649
1603	POC206	Q9H091	0.456
1604	POC206	A6NE82	0.28047
1605	POC206	Q3KRA9	0.17778
1606	POC206	Q8N9P6	0.45994
1607	POC206	Q96IF1	0.51583
1608	POC206	P41182	0.26217
1609	POC206	O75638	1.3885
1610	POC206	A6NC42	0.48726
1611	POC206	P17024	0.37336
1612	POC206	Q05516	0.84154
1613	POC206	Q7Z3B4	0.951
1614	POC206	Q96MF6	0.42453
1615	POC206	O43913	0.43575
1616	POC206	Q9UPA5	0.33875
1617	POC206	P49901	0.45994
1618	POC206	Q9NXV2	1.385
1619	POC206	Q6V9R5	0.53376
1620	POC206	Q9Y2J0	0.26895
1621	POC206	Q6ZV56	0.45994
1622	POC206	Q13868	0.54366
1623	POC206	Q9NQW6	0.47917
1624	POC206	Q13615	0.19197
1625	POC206	Q9NZN8	0.82681
1626	POC206	O95202	0.3604
1627	POC206	Q8TD31	0.78743
1628	POC206	P08865	0.8316
1629	POC206	Q5ST30	0.27647
1630	POC206	Q9NQR7	0.45994
1631	POC206	P52743	0.43791
1632	POC206	P54821	0.23679
1633	POC206	Q9UQK1	0.42174
1634	POC206	Q86XZ4	0.46469
1635	POC206	Q8N1K5	0.60143
1636	POC206	O60927	0.93006
1637	POC206	P56211	0.40024
1638	POC206	Q8TCU4	0.13109
1639	POC206	Q08211	0.27466
1640	POC206	Q86WV5	0.53854
1641	POC206	Q6NS38	0.42249
1642	POC206	Q9UIV1	1.2546
1643	POC206	P08727	0.55133
1644	POC206	Q6AWC8	0.54243
1645	POC206	Q96CV9	0.65502
1646	POC206	Q9H869	1.5805
1647	POC206	Q96FF7	0.45994
1648	POC206	Q13228	1.3113
1649	POC206	P41219	0.33044
1650	POC206	P41227	0.43135
1651	POC206	Q9C010	0.64319
1652	POC206	Q8NA69	0.0016508
1653	POC206	P01858	0.45994
1654	POC206	Q9HB03	0.65817
1655	POC206	P62750	0.7193
1656	POC206	Q5H9J9	0.24017
1657	POC206	O60294	0.43617
1658	POC206	Q9UJX2	0.71399
1659	POC206	Q6ZNA4	0.70885
1660	POC206	Q9BTV5	0.7262
1661	POC206	C9J6K1	0.44531
1662	POC206	P49639	0.28345
1663	POC206	Q96CG3	0.44734
1664	POC206	Q8N1E6	0.47623
1665	POC206	Q9GZL7	0.78961
1666	POC206	Q8IY63	0.53567
1667	POC206	Q96CW5	1.0276
1668	POC206	Q86YA3	0.94109
1669	POC206	Q13515	0.34311
1670	POC206	Q15554	0.59257
1671	POC206	A6NKU9	0.51209
1672	POC206	Q9BYQ0	0.72851

1673	POC206	Q9H7R0	0.50051
1674	POC206	Q9BS31	0.23477
1675	POC206	Q13625	0.52624
1676	POC206	O75807	0.53332
1677	POC206	O75717	0.57574
1678	POC206	Q8WUE5	0.075006
1679	POC206	Q06323	0.70662
1680	POC206	Q9UMX0	0.85557
1681	POC206	Q32MH5	0.56851
1682	POC206	Q99583	0.47898
1683	POC206	O43681	0.21936
1684	POC206	Q96B36	0.89425
1685	POC206	Q969P5	0.26941
1686	POC206	Q9NR00	0.43665
1687	POC206	P05204	0.53685
1688	POC206	Q2VPB7	0.63984
1689	POC206	Q8NAA6	0.0029259
1690	POC206	P14317	0.32655
1691	POC206	Q2VWA4	0.25152
1692	POC206	P18621	0.66084
1693	POC206	P09012	0.24179
1694	POC206	P62380	0.24275
1695	POC206	Q9UHK0	0.41216
1696	POC206	Q8N7W2	0.63911
1697	POC206	Q96K75	0.31949
1698	POC206	Q9UQR0	0.37991
1699	POC206	Q9H1E3	0.83954
1700	POC206	Q9NQZ8	0.32223
1701	POC206	Q96D03	0.30884
1702	POC206	Q15327	0.48365
1703	POC206	Q7L8S5	0.39413
1704	POC206	P52657	1.2318
1705	POC206	Q9NR83	0.38208
1706	POC206	O14713	0.54989
1707	POC206	P50995	0.9443
1708	POC206	Q6ZUV0	0.03673
1709	POC206	Q7L3S4	0.33647
1710	POC206	Q8WTT2	0.38413
1711	POC206	Q8N9R6	0.029276
1712	POC206	Q7Z5Q5	0.11481
1713	POC206	Q9H7N4	0.84733
1714	POC206	Q6NZ36	0.42986
1715	POC206	Q9H492	0.36266
1716	POC206	Q9UH99	0.27506
1717	POC206	Q6ZMK1	0.21715
1718	POC206	Q15172	0.39529
1719	POC206	Q9NXT0	0.31562
1720	POC206	Q8TC05	0.7679
1721	POC206	Q3KP22	0.16813
1722	POC206	Q8TE04	0.50374
1723	POC206	Q8IV48	0.035121
1724	POC206	Q9BQ65	0.47744
1725	POC206	Q8N9E0	0.68336
1726	POC206	Q96CX2	0.11906
1727	POC206	Q9UKL3	1.0696
1728	POC206	Q8NHG7	0.76257
1729	POC206	O15382	0.1146
1730	POC206	O43752	0.40145
1731	POC206	P51861	0.44523
1732	POC206	Q99598	0.1161
1733	POC206	Q5VVM6	0.091009
1734	POC206	P22531	0.60746
1735	POC206	Q96LI5	0.6228
1736	POC206	P48147	0.51163
1737	POC206	Q96T59	0.15893
1738	POC206	Q5T5B0	0.45994
1739	POC206	O75787	0.29734
1740	POC206	O94822	0.2338
1741	POC206	Q9NRX3	0.81087
1742	POC206	Q14CX7	0.47465
1743	POC206	Q6XD76	0.40647
1744	POC206	Q9BTE7	0.58919
1745	POC206	I3L1E1	0.33839
1746	POC206	P46781	0.95287
1747	POC206	O14529	0.47387
1748	POC206	Q3LI54	0.45994

1749	POC206	P30279	0.82797
1750	POC206	Q8NEE0	0.45994
1751	POC206	Q9BQY9	0.61178
1752	POC206	Q96B97	0.46928
1753	POC206	Q96JE9	0.3022
1754	POC206	P78560	0.64285
1755	POC206	O95983	1.4182
1756	POC206	P62328	1.0506
1757	POC206	Q8NE18	1.277
1758	POC206	Q00613	0.98359
1759	POC206	O00470	0.69206
1760	POC206	Q6PII5	0.4668
1761	POC206	P35226	0.71414
1762	POC206	Q9H0R1	0.32484
1763	POC206	Q13111	1.1911
1764	POC206	Q9UKL0	1.3089
1765	POC206	P0C7T4	0.45994
1766	POC206	Q9UBX2	0.386
1767	POC206	Q04446	0.30624
1768	POC206	O75818	0.40502
1769	POC206	Q6ZTZ1	0.3899
1770	POC206	Q96DB2	0.37553
1771	POC206	O75608	0.24089
1772	POC206	Q9UHR5	1.3822
1773	POC206	Q9NRG4	0.92332
1774	POC206	Q6PJP8	0.9054
1775	POC206	Q86X55	0.76772
1776	POC206	Q5T0W9	0.2538
1777	POC206	O60934	0.27105
1778	POC206	Q9Y6G5	0.44439
1779	POC206	P14406	0.26143
1780	POC206	Q9P2X7	0.45994
1781	POC206	Q0D2H9	0.38935
1782	POC206	Q8N3F0	0.44772
1783	POC206	Q8N0T1	0.52163
1784	POC206	O76075	0.1568
1785	POC206	Q9C0D7	0.55202
1786	POC206	A6H8Y1	0.86067
1787	POC206	Q02548	0.26612
1788	POC206	Q5T753	0.45994
1789	POC206	Q8N1X5	0.45994
1790	POC206	O00629	0.71595
1791	POC206	Q63HN1	0.39628
1792	POC206	Q9P021	0.28883
1793	POC206	O75604	0.4099
1794	POC206	O60684	0.57093
1795	POC206	P52737	0.86047
1796	POC206	Q16836	0.44334
1797	POC206	O95232	0.55195
1798	POC206	P62266	0.93565
1799	POC206	P02008	0.38521
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1801	POC206	Q9Y2L5	0.14054
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1803	POC206	Q9BUH6	0.58209
1804	POC206	Q9Y4I5	0.37023
1805	POC206	Q9H8T0	0.58791
1806	POC206	Q9UKA1	0.34251
1807	POC206	Q9BTW9	0.29062
1808	POC206	Q9HB96	0.99145
1809	POC206	Q496Y0	0.27498
1810	POC206	Q2V2M9	0.43519
1811	POC206	Q9P2K1	0.34621
1812	POC206	Q14232	0.17859
1813	POC206	P49754	0.66539
1814	POC206	P60409	0.72851
1815	POC206	O43493	0.7849
1816	POC206	Q0VDE8	0.54291
1817	POC206	O75469	0.30603
1818	POC206	Q8WUB2	0.34257
1819	POC206	P52565	0.1236
1820	POC206	Q9BRP7	0.28324
1821	POC206	Q8N1I8	0.45994
1822	POC206	Q99615	0.92277
1823	POC206	Q9BQ89	1.2539
1824	POC206	Q6ZN32	0.43565

1825	POC206	A2IDD5	0.65648
1826	POC206	Q9NR56	0.47843
1827	POC206	P63167	1.4528
1828	POC206	P59923	0.40539
1829	POC206	Q66LE6	0.55584
1830	POC206	Q8N5L8	0.97801
1831	POC206	E9PAV3	0.55374
1832	POC206	Q13057	0.28683
1833	POC206	Q8WXB4	0.6229
1834	POC206	Q9UK33	0.20949
1835	POC206	Q15170	1.5389
1836	POC206	Q9Y6K5	0.19606
1837	POC206	Q15691	0.82927
1838	POC206	P36542	0.32021
1839	POC206	P41567	0.89126
1840	POC206	Q8IWA0	0.32773
1841	POC206	Q8IYI8	0.41963
1842	POC206	P0CJ92	0.27537
1843	POC206	Q9UMX3	0.62011
1844	POC206	O94811	0.59525
1845	POC206	Q96DX8	0.114
1846	POC206	O60477	0.68027
1847	POC206	P09467	0.37604
1848	POC206	Q96JI7	0.74793
1849	POC206	A5D6W6	0.78576
1850	POC206	O75081	1.399
1851	POC206	Q9Y2V2	0.48246
1852	POC206	Q9H1K0	0.14266
1853	POC206	Q96JK9	1.0598
1854	POC206	Q8NBR6	1.6069
1855	POC206	Q8NE86	0.37604
1856	POC206	A8MUA0	0.37224
1857	POC206	Q9P2F9	0.25557
1858	POC206	Q9BY77	0.40469
1859	POC206	Q8WXI9	0.73503
1860	POC206	O75533	0.27126
1861	POC206	Q5TCQ9	0.6571
1862	POC206	Q9H6L5	0.76953
1863	POC206	Q86VW0	0.32274
1864	POC206	P14866	0.40398
1865	POC206	Q8NFW9	0.45906
1866	POC206	P34932	0.27921
1867	POC206	Q9BXQ6	0.45994
1868	POC206	Q9BR77	0.48235
1869	POC206	Q9NZY2	0.45994
1870	POC206	Q9Y315	0.6021
1871	POC206	Q9C0H6	0.39455
1872	POC206	C9JE40	0.88391
1873	POC206	O60826	0.7604
1874	POC206	Q4G0A6	1.2081
1875	POC206	Q9NRR3	0.69292
1876	POC206	P29374	0.29415
1877	POC206	Q9Y2Q1	0.54871
1878	POC206	P52655	1.1798
1879	POC206	Q9BQP7	0.25419
1880	POC206	Q96QR8	0.36919
1881	POC206	Q99619	0.6544
1882	POC206	Q8N910	0.065439
1883	POC206	Q92665	0.8929
1884	POC206	Q96CT7	0.10345
1885	POC206	Q5HYW2	0.77913
1886	POC206	Q8IYD8	0.47941
1887	POC206	O00255	0.21625
1888	POC206	Q9UL58	0.63014
1889	POC206	Q8N0U4	0.36673
1890	POC206	Q00536	0.096644
1891	POC206	Q9NX55	0.33714
1892	POC206	Q96HZ7	0.45994
1893	POC206	O95397	1.1213
1894	POC206	Q9H9L3	0.51143
1895	POC206	Q8N2C7	0.86465
1896	POC206	O60732	0.44439
1897	POC206	O95997	1.029
1898	POC206	P40692	0.062407
1899	POC206	Q9H081	0.86382
1900	POC206	Q658K8	0.61431

1901	POC206	Q9Y2D9	0.86737
1902	POC206	O95999	0.2467
1903	POC206	Q8I WV1	0.34164
1904	POC206	Q9HDB8	0.419
1905	POC206	Q9BU19	0.20949
1906	POC206	Q8TEQ6	0.68576
1907	POC206	P61966	0.40222
1908	POC206	Q495Y8	0.51209
1909	POC206	Q9U I L1	0.86178
1910	POC206	Q9H7B4	0.23754
1911	POC206	Q6ZVW7	0.10428
1912	POC206	Q53G26	0.68745
1913	POC206	Q8WTR7	0.75727
1914	POC206	Q9H2H0	0.32324
1915	POC206	Q9NRI7	0.45994
1916	POC206	P60413	0.72851
1917	POC206	Q13045	1.2968
1918	POC206	Q7Z7H8	0.25126
1919	POC206	Q04726	1.1484
1920	POC206	Q9Y4C2	0.72535
1921	POC206	Q9UHB7	1.4275
1922	POC206	Q9UMS6	0.73345
1923	POC206	Q9NVD3	0.039369
1924	POC206	Q8WXE9	0.67857
1925	POC206	Q8N4U5	0.10465
1926	POC206	Q9NX40	0.5858
1927	POC206	P21980	0.36968
1928	POC206	Q99623	1.2601
1929	POC206	P49720	0.35315
1930	POC206	P61978	0.89724
1931	POC206	Q03933	0.79318
1932	POC206	P04264	0.35707
1933	POC206	Q9Y6H1	0.95874
1934	POC206	Q99717	0.47756
1935	POC206	Q9H1Z4	0.54755
1936	POC206	Q9Y697	0.68577
1937	POC206	P15559	0.15856
1938	POC206	Q9UMQ3	0.82561
1939	POC206	Q9UEE9	0.55774
1940	POC206	P17019	0.53784
1941	POC206	Q8IWB7	0.23807
1942	POC206	Q5VIY5	0.53104
1943	POC206	Q5XG85	0.45994
1944	POC206	P63162	0.61452
1945	POC206	P19388	0.70435
1946	POC206	A6NFY7	0.59733
1947	POC206	Q3LHN2	0.45994
1948	POC206	Q6ZRF7	0.23685
1949	POC206	O60870	0.66741
1950	POC206	Q9Y676	0.71519
1951	POC206	Q6P387	0.54755
1952	POC206	Q14602	0.40764
1953	POC206	Q7Z4H9	0.37786
1954	POC206	Q9NZ32	0.15042
1955	POC206	Q5XKK7	0.28971
1956	POC206	Q9NPA5	0.20949
1957	POC206	Q6STE5	0.76489
1958	POC206	O14613	0.18896
1959	POC206	Q9P2M1	0.66879
1960	POC206	Q9UBS4	0.4554
1961	POC206	P61218	0.35813
1962	POC206	Q9P266	0.52829
1963	POC206	Q9H5P4	0.51848
1964	POC206	Q14974	1.1443
1965	POC206	Q6P1Q0	0.053322
1966	POC206	P05412	0.78712
1967	POC206	O95600	0.20949
1968	POC206	Q5TFE4	0.20214
1969	POC206	Q14777	0.7355
1970	POC206	Q8IY22	0.21416
1971	POC206	Q9NWU2	0.11206
1972	POC206	Q05BQ5	0.53112
1973	POC206	Q9P2D1	0.26704
1974	POC206	A2RUB6	0.18514
1975	POC206	Q9HAV7	0.46229
1976	POC206	Q5T1R4	0.42473

1977	POC206	Q8IYH5	0.76632
1978	POC206	O15534	0.3538
1979	POC206	Q8IUQ4	0.22286
1980	POC206	Q8IYF1	0.38657
1981	POC206	Q2M2I5	0.48752
1982	POC206	Q9NS64	0.5879
1983	POC206	O75940	0.60914
1984	POC206	Q8N684	0.34567
1985	POC206	O95394	0.81167
1986	POC206	Q9UKV0	0.54929
1987	POC206	Q8IYE0	0.72457
1988	POC206	Q14678	0.62714
1989	POC206	Q8WW38	0.68378
1990	POC206	P0CJ75	0.67101
1991	POC206	P46100	0.83537
1992	POC206	Q658T7	0.18901
1993	POC206	P09001	0.63364
1994	POC206	O43463	0.91428
1995	POC206	Q8NBC4	0.45994
1996	POC206	P25963	0.64644
1997	POC206	Q9BUK6	0.17142
1998	POC206	Q8N8E2	0.19083
1999	POC206	O95630	0.3382
2000	POC206	P46013	0.33788
2001	POC206	Q13394	0.31811
2002	POC206	Q8N0S6	0.46426
2003	POC206	Q9H5L6	0.45127
2004	POC206	O00567	0.86244
2005	POC206	O43670	0.27585
2006	POC206	Q05086	0.34569
2007	POC206	Q15185	0.55432
2008	POC206	A6NHJ4	0.57913
2009	POC206	Q6ZPA2	0.45994
2010	POC206	Q8N2W9	1.3368
2011	POC206	Q86XF7	0.60768
2012	POC206	Q8TBZ0	0.52396
2013	POC206	Q9NSI2	0.68336
2014	POC206	O94892	0.27604
2015	POC206	Q6NSI3	0.95158
2016	POC206	Q66PJ3	0.71947
2017	POC206	Q6ZV60	0.45994
2018	POC206	Q9HC62	0.63043
2019	POC206	Q9H4T2	0.29094
2020	POC206	O00268	1.1101
2021	POC206	P78411	0.23995
2022	POC206	O95059	0.39967
2023	POC206	Q14146	0.45994
2024	POC206	Q86UD1	0.27482
2025	POC206	C9JLR9	0.52254
2026	POC206	Q96HA1	1.0038
2027	POC206	Q9BSQ5	0.381
2028	POC206	Q9Y5V3	0.86435
2029	POC206	P19429	0.074674
2030	POC206	Q8IVF1	0.92123
2031	POC206	Q9NXV6	0.82838
2032	POC206	O95867	0.57591
2033	POC206	A6NI87	0.62538
2034	POC206	Q460N5	0.53024
2035	POC206	Q8TAV0	0.89109
2036	POC206	A6NIX2	1.2574
2037	POC206	Q9UPP1	0.4974
2038	POC206	Q9Y3Y4	0.85487
2039	POC206	Q9HD40	0.60789
2040	POC206	Q9UQN3	0.59523
2041	POC206	P0DMC3	0.45994
2042	POC206	Q86T29	0.27283
2043	POC206	P13645	0.46879
2044	POC206	Q9C0J9	0.22782
2045	POC206	Q9H425	0.47978
2046	POC206	Q07020	1.0088
2047	POC206	Q9NW08	0.13762
2048	POC206	P07311	0.70743
2049	POC206	Q96J02	0.27072
2050	POC206	Q8N8A8	0.24418
2051	POC206	Q13137	1.2675
2052	POC206	Q9P0M9	0.66322



2053	POC206	P19419	1.3603
2054	POC206	Q6PI98	0.81415
2055	POC206	Q9BWU0	0.63741
2056	POC206	Q9NWB6	0.68336
2057	POC206	A2A288	0.59298
2058	POC206	Q14832	0.2659
2059	POC206	Q6PH85	0.054344
2060	POC206	Q8NFP0	0.35694
2061	POC206	P83881	0.78841
2062	POC206	P50221	0.64237
2063	POC206	Q96PU8	0.24203
2064	POC206	Q9UM63	0.43145
2065	POC206	P80303	0.26454
2066	POC206	Q3LI83	0.82782
2067	POC206	Q8IYD1	0.30154
2068	POC206	Q6ZS27	0.31657
2069	POC206	P46778	0.5404
2070	POC206	Q9Y2P0	0.33802
2071	POC206	Q969G5	0.49389
2072	POC206	Q8N4M7	0.8892
2073	POC206	Q9BRS8	0.36917
2074	POC206	Q96MH2	1.3957
2075	POC206	Q13951	0.72914
2076	POC206	Q52MB2	1.1267
2077	POC206	Q9Y2K5	0.39535
2078	POC206	P58505	0.5238
2079	POC206	Q96MT4	0.77288
2080	POC206	P54198	1.1704
2081	POC206	Q9UL49	0.38073
2082	POC206	A2RTX5	0.53365
2083	POC206	Q8N8U2	0.5251
2084	POC206	P0CF97	0.52929
2085	POC206	Q6ZVD7	0.46075
2086	POC206	Q8TBF2	0.23628
2087	POC206	Q86VY4	0.58242
2088	POC206	P78559	0.87252
2089	POC206	Q14011	0.2529
2090	POC206	O95561	0.69605
2091	POC206	Q96SK3	0.38367
2092	POC206	Q8WYK2	0.42834
2093	POC206	O75177	0.79201
2094	POC206	Q9HAT8	0.66492
2095	POC206	Q96MX3	0.29643
2096	POC206	O95182	0.20428
2097	POC206	Q96SY0	0.083767
2098	POC206	Q8NFJ8	0.51524
2099	POC206	Q9Y4K1	0.85146
2100	POC206	A6NP11	0.55334
2101	POC206	A6NJJ6	0.68336
2102	POC206	O95070	0.31443
2103	POC206	Q8IXR5	0.47374
2104	POC206	P59998	0.21967
2105	POC206	Q3MIS6	0.52141
2106	POC206	Q8WXX7	0.38857
2107	POC206	P28838	0.63855
2108	POC206	Q15038	1.4303
2109	POC206	Q9NQ89	0.34123
2110	POC206	P55212	0.50915
2111	POC206	Q7Z4H3	0.35284
2112	POC206	P51816	0.34456
2113	POC206	Q9UL59	0.32313
2114	POC206	Q9NUW8	0.81815
2115	POC206	Q9H6R7	0.13594
2116	POC206	Q96LA8	0.78589
2117	POC206	Q9UH90	0.55845
2118	POC206	Q6ZUI0	0.23887
2119	POC206	Q9NWF9	0.95069
2120	POC206	Q3SYF9	0.45994
2121	POC206	Q6IA86	0.73827
2122	POC206	Q9BZP3	0.17085
2123	POC206	Q15173	0.41935
2124	POC206	Q9H8Y8	0.49329
2125	POC206	Q6NV74	0.68336
2126	POC206	P10242	0.99475
2127	POC206	Q7Z5K2	0.86118
2128	POC206	Q9NRX4	0.10285

2129	POC206	Q9BZK8	0.45994
2130	POC206	P60660	0.34028
2131	POC206	Q8NCR6	0.44005
2132	POC206	Q9H1A3	0.44439
2133	POC206	O00193	1.0445
2134	POC206	Q5EBM0	0.56883
2135	POC206	Q8N1G0	0.41273
2136	POC206	O75764	0.44592
2137	POC206	Q09666	0.79412
2138	POC206	Q9BYR4	0.72851
2139	POC206	Q14442	0.20071
2140	POC206	Q5T5Y3	0.45536
2141	POC206	Q9Y6Z5	0.71488
2142	POC206	Q6ZS17	0.57638
2143	POC206	Q6MZN7	0.45994
2144	POC206	P42695	0.49881
2145	POC206	Q96PS1	0.51435
2146	POC206	Q5R3I4	0.18354
2147	POC206	Q92791	0.15615
2148	POC206	Q96A73	1.0191
2149	POC206	Q96QU8	1.1459
2150	POC206	Q8NI51	0.79718
2151	POC206	Q9H307	0.70902
2152	POC206	Q2M238	0.12559
2153	POC206	Q9UIF3	0.26542
2154	POC206	O14879	0.75182
2155	POC206	Q9Y2Z2	0.96892
2156	POC206	O00505	1.1089
2157	POC206	Q9NXW9	0.35992
2158	POC206	Q8TD06	0.18407
2159	POC206	Q12768	0.11388
2160	POC206	Q9Y614	0.13938
2161	POC206	Q75NE6	1.1463
2162	POC206	Q9Y448	1.0902
2163	POC206	Q9Y462	0.84534
2164	POC206	Q1ED39	1.0445
2165	POC206	P14651	0.27385
2166	POC206	P26196	0.55291
2167	POC206	Q9H7H1	0.2639
2168	POC206	Q96T51	0.37623
2169	POC206	Q92988	0.61456
2170	POC206	Q8N196	0.81602
2171	POC206	Q9NS39	0.17902
2172	POC206	Q0D2K3	0.87061
2173	POC206	Q9P278	0.90375
2174	POC206	P59942	0.67835
2175	POC206	Q9Y3C8	0.40369
2176	POC206	Q99618	1.1814
2177	POC206	Q16342	0.28263
2178	POC206	Q9BT25	0.80565
2179	POC206	Q9UGM6	0.14938
2180	POC206	Q96EN9	0.69097
2181	POC206	Q9BRQ3	0.73285
2182	POC206	Q8N1Q8	0.60148
2183	POC206	Q9H2L5	0.87062
2184	POC206	P08729	1.4732
2185	POC206	Q8N661	0.64377
2186	POC206	P50749	0.89964
2187	POC206	O15499	0.2556
2188	POC206	Q8TC90	0.79065
2189	POC206	Q6ZMY9	0.53257
2190	POC206	Q29RF7	1.1672
2191	POC206	P53041	0.7766
2192	POC206	Q3SYA9	0.51591
2193	POC206	Q9ULJ6	0.90636
2194	POC206	Q15637	0.42301
2195	POC206	P10073	0.44562
2196	POC206	O60220	0.64749
2197	POC206	Q03468	0.51472
2198	POC206	Q6XXX2	0.11382
2199	POC206	Q96K30	0.99188
2200	POC206	Q3KNT7	0.30509
2201	POC206	Q8N660	1.4923
2202	POC206	O60269	0.17214
2203	POC206	Q8NFZ5	0.99344
2204	POC206	Q9NW81	0.10451

2205	POC206	Q96KP1	0.419
2206	POC206	Q5HYW3	1.0332
2207	POC206	Q8WZ33	1.0745
2208	POC206	Q52LR7	0.64687
2209	POC206	Q53GL7	0.60105
2210	POC206	Q94850	0.41823
2211	POC206	Q5JXC2	0.16439
2212	POC206	Q96BP2	1.3466
2213	POC206	B2RUZ4	1.2147
2214	POC206	Q96AA8	0.49055
2215	POC206	Q15265	1.2917
2216	POC206	Q9H9R9	0.16163
2217	POC206	Q68EA5	0.55028
2218	POC206	Q9BYG5	0.79147
2219	POC206	P23409	0.087497
2220	POC206	Q96JF6	0.27659
2221	POC206	Q9UK59	0.053719
2222	POC206	P0C853	0.45994
2223	POC206	Q9BPZ2	0.59481
2224	POC206	Q7RTT3	0.26627
2225	POC206	Q3SY52	0.32283
2226	POC206	Q96G75	0.076523
2227	POC206	Q9Y383	0.62702
2228	POC206	Q6PGQ7	1.3886
2229	POC206	Q9HCX3	0.26061
2230	POC206	Q86VQ0	0.52885
2231	POC206	A6NFQ2	0.63765
2232	POC206	Q9NYP9	0.53848
2233	POC206	A6NFD8	0.32363
2234	POC206	Q16890	0.48262
2235	POC206	Q9HCI6	0.43332
2236	POC206	Q14457	0.67604
2237	POC206	Q43318	0.65041
2238	POC206	Q9Y5Z7	0.54355
2239	POC206	Q9NVH6	0.31804
2240	POC206	P61568	0.44044
2241	POC206	P56277	0.82577
2242	POC206	P0C852	0.45994
2243	POC206	Q8N680	0.20949
2244	POC206	Q8WX93	0.38321
2245	POC206	Q9NSQ0	0.36238
2246	POC206	Q86VN1	0.65634
2247	POC206	Q75175	1.4632
2248	POC206	Q60493	0.22931
2249	POC206	A1L168	0.68336
2250	POC206	Q15021	1.0189
2251	POC206	Q96PY6	0.46267
2252	POC206	Q96JN2	0.72128
2253	POC206	Q75586	0.83148
2254	POC206	A6NDD8	0.90881
2255	POC206	Q8IZW8	0.49972
2256	POC206	Q9UBC0	0.23085
2257	POC206	P36551	0.16535
2258	POC206	Q96EZ4	0.45994
2259	POC206	P63151	0.43061
2260	POC206	Q60828	0.99879
2261	POC206	P59090	0.45994
2262	POC206	Q15654	1.0726
2263	POC206	Q96P70	1.149
2264	POC206	Q16666	0.70329
2265	POC206	P15336	0.9487
2266	POC206	P19338	0.56667
2267	POC206	P53673	0.51208
2268	POC206	Q9HC44	1.435
2269	POC206	P49755	0.19472
2270	POC206	P12980	0.96557
2271	POC206	Q86T23	0.055708
2272	POC206	Q6PDB4	0.58046
2273	POC206	Q8NCU1	0.26306
2274	POC206	Q86UD4	0.27655
2275	POC206	Q6ECI4	0.41273
2276	POC206	Q2VPJ9	0.68336
2277	POC206	O00444	0.28609
2278	POC206	P62263	0.53273
2279	POC206	Q9NP98	0.5815
2280	POC206	Q5JPH6	0.56976

2281	POC206	Q53EQ6	0.56891
2282	POC206	P0CJ86	0.386
2283	POC206	Q96TA1	0.45104
2284	POC206	Q9UJW8	0.29181
2285	POC206	Q6UW56	0.25807
2286	POC206	Q9NP81	0.3615
2287	POC206	Q9GZP4	0.02976
2288	POC206	O95886	0.57042
2289	POC206	P55327	0.40226
2290	POC206	O00232	0.092063
2291	POC206	Q9NZJ4	0.18688
2292	POC206	Q17RM4	0.39376
2293	POC206	Q9NQG5	1.2325
2294	POC206	Q6ICB4	0.30783
2295	POC206	P26358	0.50204
2296	POC206	Q5JRA6	0.032758
2297	POC206	Q969H0	0.73456
2298	POC206	Q27J81	0.29328
2299	POC206	Q9H320	0.91525
2300	POC206	Q6WBX8	0.56512
2301	POC206	Q13536	0.45994
2302	POC206	Q12901	0.43551
2303	POC206	Q9UPQ9	0.40862
2304	POC206	O75690	0.45994
2305	POC206	Q969J2	0.32173
2306	POC206	Q86TU7	0.36308
2307	POC206	Q8TAB5	0.68336
2308	POC206	P60410	1.0016
2309	POC206	Q9BUB7	0.73128
2310	POC206	Q86WU2	0.073055
2311	POC206	P06746	0.67989
2312	POC206	P29728	0.15181
2313	POC206	P52738	0.30066
2314	POC206	Q1W209	0.45994
2315	POC206	P30154	0.42373
2316	POC206	Q8N7G0	0.43565
2317	POC206	Q15653	1.0885
2318	POC206	Q96CM4	0.23855
2319	POC206	O75157	0.36156
2320	POC206	Q9UIH9	0.55088
2321	POC206	Q16822	0.16136
2322	POC206	Q9UFW8	0.55794
2323	POC206	O95848	0.65973
2324	POC206	P48553	0.1353
2325	POC206	Q13243	0.67525
2326	POC206	Q12874	0.5154
2327	POC206	Q9Y2J8	0.58482
2328	POC206	Q16629	0.62748
2329	POC206	Q96RM1	0.45994
2330	POC206	Q7KZF4	0.96832
2331	POC206	Q92541	1.1349
2332	POC206	Q04727	0.76896
2333	POC206	Q8TBZ6	0.4219
2334	POC206	Q96NU1	0.11775
2335	POC206	P62273	0.82478
2336	POC206	Q8IU53	0.47048
2337	POC206	Q86U42	0.58898
2338	POC206	Q92800	0.63799
2339	POC206	P0C2Y1	0.17444
2340	POC206	Q3LHN0	1.0016
2341	POC206	Q6P656	0.14473
2342	POC206	Q9BYD5	0.108
2343	POC206	Q99698	0.29216
2344	POC206	Q2M389	0.28525
2345	POC206	Q15572	0.80593
2346	POC206	Q709C8	0.64944
2347	POC206	Q15631	0.75011
2348	POC206	Q9UJY4	0.64329
2349	POC206	P55055	0.39149
2350	POC206	P17027	0.27283
2351	POC206	H3BMG3	0.27581
2352	POC206	Q8TF09	0.7026
2353	POC206	Q9NWQ4	0.60952
2354	POC206	P54098	0.51246
2355	POC206	Q8WVV9	0.088662
2356	POC206	Q9Y2B5	0.31806

2357	POC206	P51508	0.33397
2358	POC206	P57086	0.56824
2359	POC206	Q92670	0.31064
2360	POC206	Q9Y2G4	0.26133
2361	POC206	Q9UER7	1.0211
2362	POC206	Q66K80	0.45994
2363	POC206	Q00610	0.93224
2364	POC206	Q8N8I6	0.45994
2365	POC206	Q9H6U6	0.95531
2366	POC206	Q6QNY1	0.84053
2367	POC206	Q96MY7	1.2292
2368	POC206	P00915	0.24082
2369	POC206	Q9Y3C1	0.31029
2370	POC206	Q5THK1	0.083824
2371	POC206	Q8NFT6	0.22346
2372	POC206	Q8N7M2	0.55028
2373	POC206	Q96QG7	0.39214
2374	POC206	B7Z1M9	0.014963
2375	POC206	O60765	0.36178
2376	POC206	Q5W1A9	0.48572
2377	POC206	Q9BZD4	0.90396
2378	POC206	Q9NPI6	1.0231
2379	POC206	Q7LBC6	0.26783
2380	POC206	P62314	0.76079
2381	POC206	Q6ZRS2	0.51058
2382	POC206	Q6P2C8	1.0826
2383	POC206	Q3SY05	0.0422
2384	POC206	P62316	0.76246
2385	POC206	P20248	1.1559
2386	POC206	Q9P215	0.32086
2387	POC206	O96007	0.78161
2388	POC206	Q13278	0.64714
2389	POC206	A8MUU9	0.34884
2390	POC206	Q5SXM1	0.41197
2391	POC206	Q8IWE4	0.317
2392	POC206	Q5H9B9	0.045861
2393	POC206	P19012	0.78982
2394	POC206	O43390	0.47776
2395	POC206	Q5VWM5	0.81386
2396	POC206	Q86U28	0.077271
2397	POC206	Q6P597	0.27115
2398	POC206	Q8N9R0	0.45994
2399	POC206	Q5BKU9	0.095875
2400	POC206	A6NKN8	0.95298
2401	POC206	Q6ICG6	0.18351
2402	POC206	Q8IWZ3	1.0245
2403	POC206	Q8IXT1	0.32349
2404	POC206	P60900	0.32303
2405	POC206	O43734	0.68336
2406	POC206	O75618	1.3068
2407	POC206	A1A580	0.70835
2408	POC206	Q00625	0.64288
2409	POC206	Q9Y3C7	1.0339
2410	POC206	Q9BRJ7	0.71047
2411	POC206	A6NEY3	0.93098
2412	POC206	P43268	0.55392
2413	POC206	Q96T23	0.81684
2414	POC206	Q96LR5	0.7632
2415	POC206	Q5TAA0	0.040521
2416	POC206	Q8NE31	0.17286
2417	POC206	P61201	0.62358
2418	POC206	Q9UHC1	0.54636
2419	POC206	Q96DE0	1.0862
2420	POC206	Q96MG7	0.99205
2421	POC206	Q6ZW13	0.45994
2422	POC206	Q9UBD5	0.64381
2423	POC206	Q9H761	0.093689
2424	POC206	I6L9F6	0.25827
2425	POC206	Q9HCG1	0.42023
2426	POC206	O75467	0.28839
2427	POC206	Q8N999	0.3399
2428	POC206	Q9NVR7	0.28514
2429	POC206	Q9BS34	0.28876
2430	POC206	Q96C00	0.55449
2431	POC206	Q92922	1.0752
2432	POC206	Q8NHZ7	0.55385

2433	POC206	Q6UVJ0	1.0219
2434	POC206	Q9BSF4	0.0023501
2435	POC206	O15397	0.98986
2436	POC206	Q9BUI4	0.31323
2437	POC206	Q5H9R4	1.0721
2438	POC206	Q6KB66	0.30526
2439	POC206	Q8IZY5	0.21369
2440	POC206	Q9UDY2	1.0609
2441	POC206	Q02878	1.1159
2442	POC206	Q70EL1	0.47204
2443	POC206	P62837	0.93071
2444	POC206	O60318	0.63092
2445	POC206	Q96JB2	0.96883
2446	POC206	Q13895	0.92999
2447	POC206	Q9UHY8	0.40338
2448	POC206	Q9H9E1	0.36017
2449	POC206	Q15306	0.88347
2450	POC206	Q9Y5Z9	0.39263
2451	POC206	O14531	0.24153
2452	POC206	Q7Z7F1	0.29253
2453	POC206	Q9UHZ2	0.45994
2454	POC206	O60831	1.129
2455	POC206	Q8IUD2	1.0006
2456	POC206	A8MYP8	0.35945
2457	POC206	P21953	0.15545
2458	POC206	Q9BZE7	0.68336
2459	POC206	P15621	0.53327
2460	POC206	Q75626	0.33872
2461	POC206	Q05BU3	0.45994
2462	POC206	P53804	0.84379
2463	POC206	Q9NVH2	0.36981
2464	POC206	Q9Y5B9	0.42455
2465	POC206	Q9NS91	0.39985
2466	POC206	Q5W5X9	0.39734
2467	POC206	E9PI22	0.69362
2468	POC206	P42771	0.59403
2469	POC206	Q9H6Y2	0.53407
2470	POC206	P55735	0.65456
2471	POC206	Q8N1A6	0.019386
2472	POC206	Q9Y5J9	0.65827
2473	POC206	Q0VD86	0.54755
2474	POC206	Q9HA77	0.52634
2475	POC206	Q6ZSR6	0.33889
2476	POC206	P09565	0.3124
2477	POC206	Q96GG9	0.38469
2478	POC206	Q8NHU2	0.032616
2479	POC206	Q9Y6Z4	0.15001
2480	POC206	A6NLF2	0.39141
2481	POC206	Q9P0J6	0.68062
2482	POC206	Q9Y5Y2	0.44977
2483	POC206	P56555	0.69079
2484	POC206	Q9UKV8	0.82059
2485	POC206	Q9P2K3	1.3927
2486	POC206	P38117	0.33071
2487	POC206	Q9P2R7	0.40907
2488	POC206	P43360	0.50382
2489	POC206	Q9NWU5	0.66712
2490	POC206	Q6ZNE5	0.49781
2491	POC206	Q8N7K0	0.40539
2492	POC206	Q8NDZ0	0.20799
2493	POC206	Q8WXQ3	1.0819
2494	POC206	Q7Z794	0.46471
2495	POC206	O94829	1.1898
2496	POC206	Q569K4	0.17322
2497	POC206	A8MWP6	0.45994
2498	POC206	Q13342	0.89721
2499	POC206	A8K8P3	0.90776
2500	POC206	Q3LI67	0.45994
2501	POC206	Q9ULJ3	0.83273
2502	POC206	P51522	0.32168
2503	POC206	Q9BZA5	0.94725
2504	POC206	Q13316	0.34493
2505	POC206	P17535	1.0243
2506	POC206	P68543	0.32228
2507	POC206	Q99909	0.26627
2508	POC206	Q16543	0.46836

2509	POC206	Q9H098	0.82754
2510	POC206	Q9NRL2	1.222
2511	POC206	A8MSI8	1.3223
2512	POC206	Q9UPV0	1.8082
2513	POC206	Q13547	0.78569
2514	POC206	Q94777	0.52097
2515	POC206	Q96LM6	0.11206
2516	POC206	Q8NEK8	0.77807
2517	POC206	Q99550	0.60888
2518	POC206	P78386	0.45381
2519	POC206	Q96Q35	0.54627
2520	POC206	P43355	1.2455
2521	POC206	Q5T653	0.60285
2522	POC206	Q8N0Y2	0.29094
2523	POC206	Q86SY8	0.45994
2524	POC206	Q9H6V9	0.527
2525	POC206	Q86YD7	0.42457
2526	POC206	Q8TAF7	0.51209
2527	POC206	P34897	0.20651
2528	POC206	A6NGG3	0.45994
2529	POC206	Q96JN8	0.40632
2530	POC206	Q01844	0.7475
2531	POC206	Q14186	1.3226
2532	POC206	Q6ZP65	0.24207
2533	POC206	P13056	0.81925
2534	POC206	Q9Y2T2	0.69821
2535	POC206	Q99962	0.32481
2536	POC206	P04792	0.41545
2537	POC206	Q8NHR7	0.26593
2538	POC206	Q8IZT6	0.54086
2539	POC206	Q96SD1	0.17067
2540	POC206	Q13066	0.23762
2541	POC206	Q16531	0.74861
2542	POC206	Q9UI66	0.45994
2543	POC206	Q9BSI4	0.50666
2544	POC206	Q7Z624	0.20259
2545	POC206	P17023	0.29427
2546	POC206	Q9NPC3	0.26363
2547	POC206	Q15035	0.25162
2548	POC206	Q7LG56	0.33395
2549	POC206	Q9P267	0.31141
2550	POC206	A7E2V4	1.4143
2551	POC206	Q13416	0.60613
2552	POC206	Q96KM6	0.41956
2553	POC206	P49715	0.22832
2554	POC206	Q9H410	1.0647
2555	POC206	Q14746	0.51887
2556	POC206	Q8N0Z6	0.52183
2557	POC206	Q9BWN1	0.68336
2558	POC206	Q6ZN30	0.42433
2559	POC206	Q9UBX3	0.37001
2560	POC206	Q9UKJ5	0.42177
2561	POC206	Q95671	0.63932
2562	POC206	Q8N729	0.35747
2563	POC206	Q8TAT6	0.6314
2564	POC206	Q6ZS49	0.45994
2565	POC206	Q9C0F0	0.58025
2566	POC206	P35754	0.42635
2567	POC206	Q03936	0.53574
2568	POC206	Q9BQ87	0.58122
2569	POC206	Q94776	1.177
2570	POC206	Q9ULL5	0.45994
2571	POC206	Q9UBZ4	0.29883
2572	POC206	Q8N1L1	0.45994
2573	POC206	Q96G27	0.49089
2574	POC206	P31268	0.38707
2575	POC206	P36956	0.27605
2576	POC206	Q9UKA2	0.59519
2577	POC206	Q13398	0.52124
2578	POC206	Q9UGK8	0.80995
2579	POC206	Q9H9L7	0.40402
2580	POC206	P07320	0.93459
2581	POC206	P17483	0.16045
2582	POC206	Q9Y4U1	0.19633
2583	POC206	Q14140	1.5563
2584	POC206	P10072	0.3328

2585	POC206	P29373	0.24027
2586	POC206	Q86TX2	0.24718
2587	POC206	A2A368	0.039454
2588	POC206	Q6ICG8	1.3903
2589	POC206	P42772	0.90994
2590	POC206	Q9HCS4	0.25075
2591	POC206	Q96MB7	0.48821
2592	POC206	Q9H503	0.46075
2593	POC206	Q6P1X6	0.75667
2594	POC206	P98170	0.33575
2595	POC206	Q8N888	0.83536
2596	POC206	Q7Z6G3	0.54852
2597	POC206	P50991	0.411
2598	POC206	Q96DZ1	0.35861
2599	POC206	P62495	0.55699
2600	POC206	Q6ZTI0	0.45994
2601	POC206	A6QL64	0.55812
2602	POC206	Q13596	0.41023
2603	POC206	P30305	0.51785
2604	POC206	O15164	0.32369
2605	POC206	Q8IUW3	0.85025
2606	POC206	Q93009	0.4233
2607	POC206	Q9H668	0.3687
2608	POC206	Q5T5F5	0.45994
2609	POC206	O75494	0.5249
2610	POC206	Q5SVJ3	0.2338
2611	POC206	P19484	0.6575
2612	POC206	O94952	0.6443
2613	POC206	Q9UJ98	0.54911
2614	POC206	C9JN71	0.39006
2615	POC206	Q5T953	0.86655
2616	POC206	Q8NFR7	0.64513
2617	POC206	Q9UM07	0.58459
2618	POC206	Q9H9L4	0.36815
2619	POC206	P0CJ69	0.67101
2620	POC206	Q17RH7	0.45994
2621	POC206	Q9BYR6	1.0016
2622	POC206	Q7RTV3	0.56017
2623	POC206	Q14591	0.24995
2624	POC206	Q96A22	0.45221
2625	POC206	P35237	0.42166
2626	POC206	Q6PF18	0.15746
2627	POC206	Q13021	0.29567
2628	POC206	P49902	0.087987
2629	POC206	Q8N9U9	0.060157
2630	POC206	Q9UBL0	0.2437
2631	POC206	Q6ZUU3	0.45994
2632	POC206	Q5VWQ0	1.2857
2633	POC206	O60524	0.9166
2634	POC206	Q96T92	0.42986
2635	POC206	P62826	0.67984
2636	POC206	P12524	0.32741
2637	POC206	Q9BQE9	0.68913
2638	POC206	Q9H816	0.70382
2639	POC206	Q99816	0.52126
2640	POC206	Q8IUD6	0.51069
2641	POC206	Q2TAZ0	0.44439
2642	POC206	Q8IXQ6	0.92623
2643	POC206	C9JBD0	0.58414
2644	POC206	Q5JR59	1.3495
2645	POC206	Q9BZS9	0.45994
2646	POC206	P82673	0.18636
2647	POC206	P0CL83	0.68606
2648	POC206	Q2KHM9	0.20739
2649	POC206	P41970	1.0167
2650	POC206	Q5HYI7	1.1742
2651	POC206	Q9H496	0.21607
2652	POC206	Q9NWZ5	0.11483
2653	POC206	O60813	0.38437
2654	POC206	Q9NQX0	0.12031
2655	POC206	Q5VWM3	0.085585
2656	POC206	Q04760	0.06161
2657	POC206	Q86VE0	1.2946
2658	POC206	P20962	0.60982
2659	POC206	O94888	0.55039
2660	POC206	O75437	0.51743



2661	POC206	Q8TDH9	0.27092
2662	POC206	P58512	0.61091
2663	POC206	Q9NRX2	0.48633
2664	POC206	Q04725	0.98146
2665	POC206	Q6AI39	0.74106
2666	POC206	Q0P6D6	0.03045
2667	POC206	P0CJ73	0.67101
2668	POC206	Q9Y3Q8	1.3793
2669	POC206	A8MTA8	0.24999
2670	POC206	Q9P1Z2	0.94589
2671	POC206	Q12968	0.74526
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2673	POC206	Q6ZUF6	0.27483
2674	POC206	Q14590	0.29385
2675	POC206	Q04917	0.35958
2676	POC206	P51003	0.20674
2677	POC206	O95905	0.93793
2678	POC206	Q537H7	0.069229
2679	POC206	P62280	0.84312
2680	POC206	O15524	0.25138
2681	POC206	Q9P287	0.85041
2682	POC206	O95155	0.25947
2683	POC206	Q92993	0.98982
2684	POC206	P27348	0.43062
2685	POC206	Q8NBZ0	1.4644
2686	POC206	Q14699	0.47757
2687	POC206	P43490	0.30482
2688	POC206	E7ETH6	0.32476
2689	POC206	P57740	0.8515
2690	POC206	Q96GV9	0.56692
2691	POC206	Q86WV6	0.13154
2692	POC206	O15205	0.60029
2693	POC206	Q9BXT5	0.58786
2694	POC206	Q96S94	0.47475
2695	POC206	Q6PGN9	0.92335
2696	POC206	Q6R2W3	0.47807
2697	POC206	O60613	0.49346
2698	POC206	Q8N8E1	0.36926
2699	POC206	P58004	0.46723
2700	POC206	D6RGH6	1.3583
2701	POC206	Q12824	0.98361
2702	POC206	P43364	1.0004
2703	POC206	P49454	0.66133
2704	POC206	P18846	0.96544
2705	POC206	Q5T1B1	1.1299
2706	POC206	P11441	0.66463
2707	POC206	A6NN73	0.32306
2708	POC206	Q16891	0.20144
2709	POC206	Q9HB07	0.32821
2710	POC206	Q13158	0.44934
2711	POC206	P48380	0.45026
2712	POC206	Q8TAE6	0.35522
2713	POC206	P49005	0.66594
2714	POC206	P0CJ89	0.386
2715	POC206	Q9BZW7	0.41339
2716	POC206	A6NLC5	0.27556
2717	POC206	Q9NRY5	1.1724
2718	POC206	Q9UI08	0.23113
2719	POC206	Q8WZA9	0.68336
2720	POC206	O95678	0.37896
2721	POC206	Q68DY1	0.53784
2722	POC206	Q9H5V9	0.60085
2723	POC206	Q96QE5	0.97319
2724	POC206	O14770	0.56053
2725	POC206	P22626	0.436
2726	POC206	Q9UL03	0.99436
2727	POC206	P49321	0.83618
2728	POC206	Q9H2U6	0.35839
2729	POC206	Q9Y592	1.0089
2730	POC206	Q5T0U0	0.027102
2731	POC206	O75896	0.48326
2732	POC206	Q16589	0.55459
2733	POC206	P01009	0.37949
2734	POC206	Q9Y376	0.27399
2735	POC206	Q96BK5	0.65534
2736	POC206	B4DZS4	0.30093

2737	POC206	O75558	0.73039
2738	POC206	A6NFK2	0.14453
2739	POC206	D6RB28	0.88867
2740	POC206	O15318	0.81372
2741	POC206	Q86YP4	0.97844
2742	POC206	Q9BXH1	0.3776
2743	POC206	P55771	0.97535
2744	POC206	Q99996	0.68659
2745	POC206	Q5JTJ3	0.17879
2746	POC206	P59036	0.45994
2747	POC206	Q9HCM7	1.1293
2748	POC206	P31939	0.38186
2749	POC206	A6NNW6	0.58577
2750	POC206	A1A519	0.84457
2751	POC206	Q9BZ23	0.51497
2752	POC206	Q92542	0.37049
2753	POC206	Q2VY69	0.37537
2754	POC206	P50453	0.69564
2755	POC206	Q9H5L9	0.10486
2756	POC206	P41250	0.40305
2757	POC206	O15525	0.47068
2758	POC206	Q8WYA0	0.71247
2759	POC206	P49406	0.54712
2760	POC206	P26641	0.43345
2761	POC206	Q9Y3R5	0.7984
2762	POC206	P54845	0.44281
2763	POC206	Q9BX70	0.70649
2764	POC206	Q3LI64	0.45994
2765	POC206	Q9Y6J9	0.92242
2766	POC206	A8K830	0.45994
2767	POC206	Q8NE65	0.47185
2768	POC206	Q07666	0.49311
2769	POC206	P17987	0.34931
2770	POC206	Q8TD19	0.33775
2771	POC206	Q6ZN06	0.52928
2772	POC206	A8MQ11	0.27064
2773	POC206	Q9UET6	0.78754
2774	POC206	Q9C0B2	0.34993
2775	POC206	Q96HE9	0.15381
2776	POC206	Q9UI09	0.08845
2777	POC206	Q9UNN4	0.56845
2778	POC206	Q9H0H0	0.2646
2779	POC206	Q8N0U6	0.45994
2780	POC206	Q9UI47	0.35308
2781	POC206	Q13616	0.5787
2782	POC206	Q86WR0	0.31338
2783	POC206	Q6NUI1	0.78014
2784	POC206	O00716	1.1542
2785	POC206	Q8NA57	0.986
2786	POC206	Q6ZNB6	0.38992
2787	POC206	O95751	0.70721
2788	POC206	Q8N9N8	0.17369
2789	POC206	Q13330	0.73149
2790	POC206	Q6ZVX7	0.65428
2791	POC206	Q96A26	0.18473
2792	POC206	Q12933	0.59313
2793	POC206	P15976	0.35432
2794	POC206	Q6P5R6	0.30234
2795	POC206	Q6PGP7	0.88537
2796	POC206	Q14533	0.886
2797	POC206	Q96BQ5	0.84515
2798	POC206	Q02040	0.4553
2799	POC206	P14621	0.017215
2800	POC206	Q8NFR3	0.34031
2801	POC206	P34949	0.42497
2802	POC206	O60884	0.57406
2803	POC206	Q9BTL3	0.58488
2804	POC206	Q5TCZ1	0.24648
2805	POC206	P10768	0.38233
2806	POC206	Q01201	1.1864
2807	POC206	Q5W111	0.17909
2808	POC206	O60299	0.47425
2809	POC206	A6NNF4	0.4071
2810	POC206	Q96LT6	0.31725
2811	POC206	Q8N3I7	0.3313
2812	POC206	Q9H4I3	0.00066993

2813	POC206	Q92783	0.7337
2814	POC206	P49642	0.31987
2815	POC206	Q86UE3	0.39234
2816	POC206	Q96G04	0.067794
2817	POC206	Q99497	0.10505
2818	POC206	Q9Y4E1	0.63197
2819	POC206	Q8N7B6	0.57
2820	POC206	O75529	0.67976
2821	POC206	Q92925	0.67212
2822	POC206	A1A5D9	0.84853
2823	POC206	P61956	0.79842
2824	POC206	A6NJI1	0.27123
2825	POC206	O43809	0.63192
2826	POC206	Q9BYA6	0.45994
2827	POC206	Q99829	0.3117
2828	POC206	Q86VX2	1.0265
2829	POC206	Q9H1H9	0.7666
2830	POC206	Q9BQS6	0.96806
2831	POC206	Q9H0I3	0.61188
2832	POC206	Q86YL5	0.33365
2833	POC206	Q86XK3	0.85437
2834	POC206	P0C7T5	0.45264
2835	POC206	Q86X83	0.60104
2836	POC206	Q13287	0.62191
2837	POC206	P49116	0.70739
2838	POC206	Q9ULX6	0.59579
2839	POC206	P67775	0.79541
2840	POC206	Q96BZ8	0.68336
2841	POC206	O00458	0.88505
2842	POC206	Q8TB72	0.54766
2843	POC206	Q969E2	0.64316
2844	POC206	Q9BWD3	0.88264
2845	POC206	P41218	0.82589
2846	POC206	Q9H3J6	0.90521
2847	POC206	Q96B26	0.6731
2848	POC206	O15145	0.1868
2849	POC206	Q5HYR2	0.85318
2850	POC206	Q15532	1.1108
2851	POC206	Q6ICB0	0.81632
2852	POC206	Q17RB0	0.6858
2853	POC206	Q15050	0.79557
2854	POC206	Q9UQF2	0.53399
2855	POC206	Q9H0G5	0.53064
2856	POC206	Q96KQ4	1.0547
2857	POC206	Q6PK04	0.99682
2858	POC206	Q6IPT2	1.2191
2859	POC206	Q5EBM4	0.20949
2860	POC206	Q9HB58	0.5606
2861	POC206	P30622	0.4145
2862	POC206	P47224	0.29706
2863	POC206	Q9HD15	0.70263
2864	POC206	P62857	0.66383
2865	POC206	Q8N9K7	0.45994
2866	POC206	P0DKX0	0.477
2867	POC206	O14686	0.52308
2868	POC206	Q8IZU1	0.66819
2869	POC206	Q8IZ13	0.14922
2870	POC206	Q9BSC4	0.32773
2871	POC206	Q6P444	0.63251
2872	POC206	P22736	0.4029
2873	POC206	A1A4V9	0.34969
2874	POC206	Q15910	0.52586
2875	POC206	Q96HM7	0.79714
2876	POC206	Q86YW9	0.49467
2877	POC206	Q5VVS0	0.98012
2878	POC206	Q15014	1.4149
2879	POC206	P62851	0.91109
2880	POC206	P0CI01	0.51209
2881	POC206	Q9P2H0	0.44439
2882	POC206	Q8WY36	0.49155
2883	POC206	P43359	1.0367
2884	POC206	Q9BYN8	0.991
2885	POC206	P11166	0.57063
2886	POC206	P30793	0.22707
2887	POC206	Q86U86	1.2144
2888	POC206	P11055	0.31733

2889	POC206	Q5TKA1	0.53705
2890	POC206	Q9BYQ7	0.91057
2891	POC206	Q9NZU7	0.48332
2892	POC206	P19367	0.31308
2893	POC206	A6NGN4	0.29113
2894	POC206	O94818	1.0445
2895	POC206	C9J069	0.066669
2896	POC206	P29084	1.3909
2897	POC206	Q1HG44	0.92859
2898	POC206	A8MQ14	0.36754
2899	POC206	Q9NZI7	0.36759
2900	POC206	P50542	0.23937
2901	POC206	Q460N3	0.42719
2902	POC206	Q9UHV7	0.57714
2903	POC206	Q6W349	0.60429
2904	POC206	Q8TDN6	0.42946
2905	POC206	Q7Z5W3	0.80472
2906	POC206	P19532	0.84279
2907	POC206	Q10587	0.37088
2908	POC206	Q8N5U6	1.3383
2909	POC206	Q7L8W6	0.46352
2910	POC206	Q96KG9	0.4938
2911	POC206	P41223	0.13465
2912	POC206	Q9Y2R2	0.24635
2913	POC206	Q5TYX0	0.41864
2914	POC206	P78317	0.74048
2915	POC206	P78316	1.1278
2916	POC206	O43237	0.23588
2917	POC206	Q99471	0.94754
2918	POC206	Q8WVM0	0.68005
2919	POC206	Q96QA6	0.32773
2920	POC206	Q8IZ73	0.31172
2921	POC206	O43242	0.11693
2922	POC206	Q9Y6G3	0.32344
2923	POC206	P81877	0.58842
2924	POC206	Q15699	0.51512
2925	POC206	Q9Y530	0.3599
2926	POC206	Q5JTD0	1.2792
2927	POC206	O00321	0.39625
2928	POC206	Q15796	0.66595
2929	POC206	B9A014	0.18893
2930	POC206	O95996	0.48447
2931	POC206	P62910	0.65917
2932	POC206	A8MUZ8	0.59145
2933	POC206	Q9Y586	0.19007
2934	POC206	Q969I3	0.60619
2935	POC206	P04733	0.45193
2936	POC206	Q8N8F4	0.24913
2937	POC206	Q5JVF3	0.24315
2938	POC206	A6NLX3	0.24652
2939	POC206	Q9BYQ6	0.72851
2940	POC206	O43865	0.27662
2941	POC206	P10636	0.13016
2942	POC206	P0CV98	0.32628
2943	POC206	Q9UBB9	0.36928
2944	POC206	Q99741	0.6216
2945	POC206	Q9H9A5	0.06863
2946	POC206	Q96A56	1.0261
2947	POC206	Q96A65	0.29127
2948	POC206	Q6ZUT4	0.50147
2949	POC206	O95238	0.36295
2950	POC206	Q8N4B4	0.22172
2951	POC206	Q9BTT0	0.34648
2952	POC206	Q8TAQ2	1.383
2953	POC206	Q13257	0.86876
2954	POC206	P54252	0.55534
2955	POC206	Q15326	1.4408
2956	POC206	Q96HB5	0.39212
2957	POC206	Q13487	1.4552
2958	POC206	Q4VC05	0.63459
2959	POC206	Q5TYW1	0.26368
2960	POC206	Q16829	0.34535
2961	POC206	Q9H446	0.44439
2962	POC206	Q8N9G6	0.92666
2963	POC206	O43257	0.47494
2964	POC206	Q96E14	0.70969

2965	POC206	Q9Y603	1.3379
2966	POC206	Q8WV37	0.71616
2967	POC206	Q8NDV7	0.23684
2968	POC206	Q86SX3	1.4221
2969	POC206	Q5SQ13	0.0040292
2970	POC206	P61582	1.0517
2971	POC206	Q96H40	0.51926
2972	POC206	Q8N9W8	1.2191
2973	POC206	Q5CZC0	1.1397
2974	POC206	Q9H6K1	0.19652
2975	POC206	Q9BX26	1.1574
2976	POC206	Q92973	1.1311
2977	POC206	Q14596	0.33684
2978	POC206	Q00994	1.0345
2979	POC206	Q8IZU3	0.33176
2980	POC206	Q9Y2G7	0.5788
2981	POC206	Q9NXR8	0.48153
2982	POC206	P35326	0.51897
2983	POC206	P32189	0.25082
2984	POC206	A6NCD4	0.30056
2985	POC206	Q5T0J3	0.10335
2986	POC206	Q92831	0.81883
2987	POC206	Q96LC9	0.62231
2988	POC206	Q8WY41	0.55785
2989	POC206	Q9H0E7	0.37764
2990	POC206	Q5T5M9	0.11206
2991	POC206	Q96IS3	0.33461
2992	POC206	Q9BRH9	0.34446
2993	POC206	Q96BN8	0.12848
2994	POC206	Q9BQA5	0.93949
2995	POC206	O96020	1.0743
2996	POC206	Q17RC7	0.53082
2997	POC206	Q6PI47	0.13145
2998	POC206	Q86TG7	0.78905
2999	POC206	Q3MJ62	0.29094
3000	POC206	O95476	0.37816
3001	POC206	Q8NA92	0.61368
3002	POC206	Q9Y4P8	0.98447
3003	POC206	Q7L2K0	0.20624
3004	POC206	Q86UQ8	0.58122
3005	POC206	Q5BKZ1	0.61404
3006	POC206	P49354	0.37173
3007	POC206	Q8TCJ0	1.008
3008	POC206	Q9Y3V2	1.0004
3009	POC206	A2RTY3	0.32017
3010	POC206	P49427	0.79465
3011	POC206	Q9HA90	0.68336
3012	POC206	Q3B726	0.35438
3013	POC206	Q0VG06	0.71215
3014	POC206	Q14669	0.4245
3015	POC206	Q9NNW5	0.65734
3016	POC206	Q8IV54	0.35556
3017	POC206	P33076	0.59218
3018	POC206	O15226	0.81296
3019	POC206	P26640	0.26931
3020	POC206	Q9NX65	0.26719
3021	POC206	Q9BU64	0.4362
3022	POC206	Q9UIY3	0.094029
3023	POC206	Q8WWC4	0.70504
3024	POC206	Q9C0D0	0.45365
3025	POC206	Q9BQI6	0.28621
3026	POC206	P30260	1.1408
3027	POC206	Q8WVJ9	0.67069
3028	POC206	Q5VTR2	0.75166
3029	POC206	Q4VX62	0.33955
3030	POC206	Q9H160	0.59381
3031	POC206	A2RUQ5	0.18342
3032	POC206	O14633	0.45994
3033	POC206	Q86XG9	0.16288
3034	POC206	Q9BPX7	0.45626
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3036	POC206	P24855	0.14065
3037	POC206	A1L188	0.68242
3038	POC206	Q14241	0.4043
3039	POC206	Q9P2D3	0.79245
3040	POC206	Q5VZR2	1.098

3041	POC206	P0C879	0.45994
3042	POC206	Q6YHU6	0.059722
3043	POC206	P80217	0.75022
3044	POC206	O00482	0.36546
3045	POC206	Q8WTZ3	0.56398
3046	POC206	Q15036	0.28724
3047	POC206	Q13216	0.51634
3048	POC206	Q14141	0.2487
3049	POC206	Q9NRN9	0.26375
3050	POC206	Q9UPV9	0.87548
3051	POC206	O95125	0.31582
3052	POC206	P57055	0.68169
3053	POC206	Q96HZ4	0.27029
3054	POC206	A2BFH1	0.28126
3055	POC206	Q03252	0.43829
3056	POC206	Q6P3W7	0.24933
3057	POC206	O94901	0.29372
3058	POC206	Q96FJ8	0.45994
3059	POC206	O75791	1.1023
3060	POC206	Q9Y6X8	0.85674
3061	POC206	Q02241	0.83505
3062	POC206	Q13123	0.76216
3063	POC206	Q5T8I9	0.264
3064	POC206	P27986	0.55744
3065	POC206	A1L3X4	0.45994
3066	POC206	Q8WZ26	0.021157
3067	POC206	Q96IV0	0.67741
3068	POC206	Q8N3J9	0.31162
3069	POC206	P52740	0.26368
3070	POC206	P38646	0.64224
3071	POC206	Q8N1G1	0.15957
3072	POC206	Q14781	0.91292
3073	POC206	Q8N8H1	0.49281
3074	POC206	Q8N912	0.82784
3075	POC206	Q9P2Y4	0.35488
3076	POC206	O00410	1.2589
3077	POC206	Q9Y6X9	0.50702
3078	POC206	Q8WWQ0	0.66188
3079	POC206	A8MT70	0.58813
3080	POC206	Q9Y6X3	1.1479
3081	POC206	Q9H808	0.70051
3082	POC206	Q9Y4Y9	0.67158
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3084	POC206	Q9BYQ2	0.72851
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3091	POC206	Q96KH6	0.53824
3092	POC206	Q9BRT9	0.42774
3093	POC206	Q8NFI3	0.32365
3094	POC206	Q6P2D0	0.30421
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3096	POC206	Q6ZUA9	0.7285
3097	POC206	Q9BQ69	0.56812
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3099	POC206	Q13620	0.88786
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3103	POC206	A6NH13	0.37068
3104	POC206	Q8IZL8	1.0083
3105	POC206	Q8IZX4	0.43142
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3107	POC206	Q14938	0.3111
3108	POC206	O00422	1.3793
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3110	POC206	P62993	0.25364
3111	POC206	Q16254	1.1172
3112	POC206	Q9BW66	1.1113
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3114	POC206	Q96E29	0.43518
3115	POC206	P83111	0.2185
3116	POC206	Q5ZEY9	0.58368

3117	POC206	Q6AI08	0.59281
3118	POC206	Q9UJG1	1.0958
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3120	POC206	Q96RU7	0.46593
3121	POC206	O95045	0.34162
3122	POC206	Q5T870	0.784
3123	POC206	O60284	0.45026
3124	POC206	Q99551	0.79243
3125	POC206	P53801	0.76447
3126	POC206	Q8N9B5	0.92155
3127	POC206	Q6BDS2	0.42287
3128	POC206	Q7Z3D6	0.056741
3129	POC206	Q86XN7	0.68336
3130	POC206	Q9Y5Q9	0.26386
3131	POC206	O43236	0.42938
3132	POC206	Q2TAY7	0.33985
3133	POC206	Q96HJ3	0.68336
3134	POC206	A4QMS7	0.24641
3135	POC206	K7EIQ3	0.94197
3136	POC206	Q8TAT8	0.22504
3137	POC206	O94762	0.23216
3138	POC206	Q59F38	0.15994
3139	POC206	Q5T7N7	0.45994
3140	POC206	O95628	0.6848
3141	POC206	Q76KX8	0.53394
3142	POC206	Q9ULD9	1.1309
3143	POC206	Q9ULE4	0.574
3144	POC206	Q8NEL0	0.10668
3145	POC206	P02728	0.45994
3146	POC206	Q9Y6X2	0.92682
3147	POC206	O95153	0.77281
3148	POC206	Q8N123	0.60181
3149	POC206	H3BU77	0.49955
3150	POC206	Q86TJ5	0.30287
3151	POC206	Q8N4Q1	0.19557
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3154	POC206	P07315	0.71245
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3156	POC206	Q9HAV4	1.1601
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3158	POC206	Q8WUQ7	0.13095
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3161	POC206	Q9P2I0	0.78001
3162	POC206	Q14738	0.84609
3163	POC206	Q8IVM7	0.45994
3164	POC206	Q14145	1.4501
3165	POC206	Q5RGN0	0.90881
3166	POC206	A8MPS7	0.093281
3167	POC206	O43299	1.3855
3168	POC206	Q9Y5J7	0.43284
3169	POC206	Q9Y2D8	0.75428
3170	POC206	P50461	0.27252
3171	POC206	B4DXR9	0.53359
3172	POC206	Q13495	1.2196
3173	POC206	P49591	0.40511
3174	POC206	Q9NZE8	0.76125
3175	POC206	Q8IX90	0.8595
3176	POC206	P23786	0.11495
3177	POC206	Q9H5Y0	0.67091
3178	POC206	Q0VDD5	0.45994
3179	POC206	P06730	0.50635
3180	POC206	P28749	1.4166
3181	POC206	P13984	0.65665
3182	POC206	Q5TA31	0.66137
3183	POC206	Q969G2	0.27874
3184	POC206	A6NJV1	0.58232
3185	POC206	A8MYZ0	0.73709
3186	POC206	P09496	0.33678
3187	POC206	Q6ZUG5	0.28595
3188	POC206	Q9UGJ1	0.44715
3189	POC206	Q9H706	0.44439
3190	POC206	Q5BN46	0.15368
3191	POC206	Q9Y4Z0	0.61692
3192	POC206	A4GXA9	0.80911

3193	POC206	Q9UKJ3	0.76689
3194	POC206	Q8N6F7	0.51035
3195	POC206	B3EWG3	0.68336
3196	POC206	Q5T2W1	0.57272
3197	POC206	Q66K74	0.24452
3198	POC206	P36952	0.27508
3199	POC206	Q8N6N3	0.456
3200	POC206	Q8N813	0.067618
3201	POC206	P61247	1.0558
3202	POC206	Q9Y535	0.41794
3203	POC206	Q5SRD1	0.3211
3204	POC206	Q6ZSG2	0.3943
3205	POC206	P0CJ85	0.386
3206	POC206	Q6PF06	0.87164
3207	POC206	Q9Y5Q8	0.82232
3208	POC206	Q0VG73	0.45994
3209	POC206	Q6P589	0.50566
3210	POC206	Q9BY32	0.51489
3211	POC206	Q8WXC7	0.45806
3212	POC206	Q15814	0.2472
3213	POC206	Q9H6K4	0.40565
3214	POC206	O15405	1.0823
3215	POC206	Q9H5J4	0.65817
3216	POC206	Q9NVK5	0.27133
3217	POC206	Q9HAB8	0.67753
3218	POC206	Q8IZQ1	0.82634
3219	POC206	P11308	0.65659
3220	POC206	Q86VS8	0.5236
3221	POC206	Q9UBW8	0.55205
3222	POC206	Q8N4S0	0.68336
3223	POC206	Q9Y283	0.42316
3224	POC206	Q8IY42	1.0739
3225	POC206	P48200	0.48106
3226	POC206	Q9P2R6	1.2624
3227	POC206	Q9NYA3	0.33373
3228	POC206	Q7Z340	0.30987
3229	POC206	Q6TFL3	0.4088
3230	POC206	Q9NP61	0.26204
3231	POC206	Q96NM4	0.49155
3232	POC206	Q8NC69	0.13145
3233	POC206	Q9UGP5	0.093393
3234	POC206	O95865	0.48643
3235	POC206	Q8ND07	1.0516
3236	POC206	Q7L775	0.40954
3237	POC206	P57721	0.64715
3238	POC206	Q9BWM5	0.33811
3239	POC206	P10075	0.30021
3240	POC206	P13807	0.42624
3241	POC206	Q8TDB6	0.63539
3242	POC206	A6NNP5	0.063046
3243	POC206	O43504	0.27043
3244	POC206	P0DL12	0.26658
3245	POC206	Q15124	0.10658
3246	POC206	Q7Z3Z0	0.48752
3247	POC206	Q9NR77	0.60464
3248	POC206	Q15269	0.27913
3249	POC206	Q75943	0.38337
3250	POC206	Q6ZUT6	0.30843
3251	POC206	Q9UJU3	0.25472
3252	POC206	Q53HV7	0.7954
3253	POC206	Q9NRY2	0.9571
3254	POC206	Q9NVI1	0.88149
3255	POC206	Q9Y4X0	0.24042
3256	POC206	Q9UK41	0.85399
3257	POC206	Q96B23	0.95954
3258	POC206	Q8TAD7	0.68336
3259	POC206	Q9Y5K5	0.43453
3260	POC206	Q9P1Q0	0.5191
3261	POC206	Q03111	1.4734
3262	POC206	Q9Y6F1	0.4208
3263	POC206	Q96DM1	0.86405
3264	POC206	Q9Y587	0.1608
3265	POC206	A6NDZ8	0.28047
3266	POC206	Q1A5X7	0.0020418
3267	POC206	Q96SQ5	0.33635
3268	POC206	P0C7X3	0.7077



3269	POC206	A8MWS5	0.028533
3270	POC206	P18146	0.80419
3271	POC206	Q3LI58	0.45994
3272	POC206	Q96KN7	0.077247
3273	POC206	O14786	0.27449
3274	POC206	P07992	0.19921
3275	POC206	Q6N069	0.3054
3276	POC206	O94929	0.31285
3277	POC206	A8MXT2	0.088734
3278	POC206	Q86XW9	0.10589
3279	POC206	K9M1U5	0.45994
3280	POC206	Q92624	1.1146
3281	POC206	P83369	0.64149
3282	POC206	Q5T124	0.13742
3283	POC206	P62633	0.79848
3284	POC206	Q8NEF3	0.33277
3285	POC206	P12755	0.23314
3286	POC206	Q9NZL3	0.88507
3287	POC206	Q96MA1	0.39399
3288	POC206	O95298	0.67505
3289	POC206	Q9NRJ2	0.45994
3290	POC206	O75360	0.53623
3291	POC206	O75971	1.1498
3292	POC206	Q8NEA6	0.42268
3293	POC206	Q96ED9	0.63032
3294	POC206	Q96JB5	0.41139
3295	POC206	Q8NEK5	0.33647
3296	POC206	Q6VUC0	0.5631
3297	POC206	P30042	0.25299
3298	POC206	Q8WYA6	0.78514
3299	POC206	Q15386	0.29649
3300	POC206	Q9UF83	0.43136
3301	POC206	O75475	1.432
3302	POC206	P51398	1.2847
3303	POC206	Q9HD33	0.92802
3304	POC206	O43290	0.96369
3305	POC206	O75534	0.17344
3306	POC206	P17025	0.32223
3307	POC206	Q658L1	0.98539
3308	POC206	O96004	0.50291
3309	POC206	A6NDV4	0.27403
3310	POC206	Q9H9H4	0.77542
3311	POC206	P61586	0.33654
3312	POC206	Q8N2I2	0.34327
3313	POC206	Q9P1Y5	0.70647
3314	POC206	Q8TEP8	0.94936
3315	POC206	O75069	0.1487
3316	POC206	P19447	0.21011
3317	POC206	Q9UHV9	0.90608
3318	POC206	P22695	0.13561
3319	POC206	P31946	0.58303
3320	POC206	Q9BYE0	0.22822
3321	POC206	Q9HBT7	0.37081
3322	POC206	O43776	0.61392
3323	POC206	Q92793	0.46409
3324	POC206	Q96B18	0.29091
3325	POC206	Q3KQV3	0.37298
3326	POC206	Q5JVG2	0.24088
3327	POC206	Q9UBF6	0.93115
3328	POC206	Q0VFX4	0.44031
3329	POC206	Q16587	0.30577
3330	POC206	Q6EEV6	0.12583
3331	POC206	P69891	0.41469
3332	POC206	Q13144	0.53341
3333	POC206	A6PW82	0.62801
3334	POC206	Q9BXW3	0.45994
3335	POC206	A6NHU5	0.16442
3336	POC206	Q9NVX0	1.2823
3337	POC206	O43399	0.6701
3338	POC206	Q9UFG5	0.44439
3339	POC206	A8MUL3	0.45994
3340	POC206	Q3LI81	1.0016
3341	POC206	Q8NC56	0.43573
3342	POC206	Q9UJJ7	0.45729
3343	POC206	Q969H6	0.9932
3344	POC206	P25815	0.63019

3345	POC206	Q7Z6R9	0.4536
3346	POC206	P18077	0.43517
3347	POC206	P61163	0.15677
3348	POC206	O95816	0.37663
3349	POC206	Q92616	0.2295
3350	POC206	Q96NT3	0.4783
3351	POC206	P14653	0.41435
3352	POC206	Q96LR2	1.0711
3353	POC206	P17861	0.73104
3354	POC206	Q8N2M8	0.892
3355	POC206	Q9BWK5	0.86655
3356	POC206	Q9UL01	0.50374
3357	POC206	Q96EZ8	0.99627
3358	POC206	Q8N159	0.22989
3359	POC206	Q2KHR2	0.36338
3360	POC206	Q9NYH9	0.11186
3361	POC206	Q8IWC1	0.77621
3362	POC206	Q01534	0.33807
3363	POC206	Q96LW7	0.90031
3364	POC206	A6NJL1	0.29094
3365	POC206	O76014	0.40644
3366	POC206	P54259	0.99992
3367	POC206	Q8N1B3	0.69758
3368	POC206	P10589	0.47486
3369	POC206	Q9BT81	0.50896
3370	POC206	Q8N6T7	0.82703
3371	POC206	Q92754	0.55569
3372	POC206	Q06730	0.22742
3373	POC206	Q14244	0.90662
3374	POC206	O95777	0.55946
3375	POC206	Q75MW2	0.70219
3376	POC206	Q9BZE3	0.5378
3377	POC206	P22103	0.45994
3378	POC206	Q9C086	1.5584
3379	POC206	Q9GZV5	1.1088
3380	POC206	Q9H583	1.1305
3381	POC206	Q9NX70	1.2
3382	POC206	A8MTY0	0.55067
3383	POC206	Q32M78	0.47573
3384	POC206	Q8IXQ3	0.4754
3385	POC206	O60308	0.57086
3386	POC206	Q9Y4X5	0.55947
3387	POC206	P0CH99	0.68153
3388	POC206	Q5TA76	0.45994
3389	POC206	O75920	1.1722
3390	POC206	O15091	0.010182
3391	POC206	Q13769	0.60283
3392	POC206	Q15773	0.90067
3393	POC206	P0C7Q3	0.10108
3394	POC206	Q9NUL5	0.22055
3395	POC206	O43513	1.2489
3396	POC206	Q8WV41	0.22921
3397	POC206	Q86VQ1	0.35605
3398	POC206	F5H284	0.28126
3399	POC206	A4D997	0.61306
3400	POC206	Q6NSZ9	0.29094
3401	POC206	Q9H4A5	1.1097
3402	POC206	Q86V48	1.0919
3403	POC206	P05413	0.32866
3404	POC206	Q9BWX5	0.53051
3405	POC206	A5PL33	0.58899
3406	POC206	Q9NX95	0.57667
3407	POC206	Q6ZUJ4	0.38058
3408	POC206	O75346	0.48795
3409	POC206	Q8N3Y1	0.3556
3410	POC206	A6NDU8	0.30097
3411	POC206	O75459	0.30344
3412	POC206	Q96DU7	0.34786
3413	POC206	P51580	0.22232
3414	POC206	O95163	0.80637
3415	POC206	Q63HK5	0.43031
3416	POC206	Q12857	0.44611
3417	POC206	E9PIF3	0.040509
3418	POC206	Q49AQ9	0.26335
3419	POC206	O14561	0.39574
3420	POC206	Q9NPC7	0.24904

3421	POC206	Q9Y421	0.46527
3422	POC206	A8MV65	0.74461
3423	POC206	P0CG29	0.44089
3424	POC206	Q6P280	0.58588
3425	POC206	Q69YQ0	0.4797
3426	POC206	Q86UT5	0.26027
3427	POC206	Q9BRJ2	0.46635
3428	POC206	Q92934	0.10885
3429	POC206	Q6P1K8	0.77891
3430	POC206	Q8IZC7	0.28803
3431	POC206	Q9Y316	0.62941
3432	POC206	Q16775	0.4668
3433	POC206	Q9H0E3	0.93882
3434	POC206	Q56VL3	0.70283
3435	POC206	Q08999	1.5304
3436	POC206	P62913	0.98242
3437	POC206	Q8IYI0	0.46038
3438	POC206	Q5SW24	0.29091
3439	POC206	Q99638	0.68626
3440	POC206	Q8NDW8	0.10037
3441	POC206	Q9C002	0.31135
3442	POC206	Q9Y675	0.7095
3443	POC206	Q14135	0.58122
3444	POC206	Q9H5J8	1.1504
3445	POC206	Q6PCE3	0.52623
3446	POC206	P54922	0.6632
3447	POC206	Q96AT1	0.68336
3448	POC206	Q8N393	0.3278
3449	POC206	P30047	0.73194
3450	POC206	Q96M61	0.44439
3451	POC206	Q5TYW8	0.1357
3452	POC206	Q8NEJ9	0.35838
3453	POC206	Q8N895	0.72557
3454	POC206	P61927	0.61873
3455	POC206	P0DI83	0.54567
3456	POC206	P25789	0.57763
3457	POC206	Q96N58	0.36429
3458	POC206	Q9BW04	0.16109
3459	POC206	Q16548	0.66246
3460	POC206	Q9H0A8	0.76825
3461	POC206	Q13867	0.37376
3462	POC206	Q9UNQ2	0.51306
3463	POC206	Q9C075	0.35532
3464	POC206	P32519	1.4189
3465	POC206	Q14907	0.60884
3466	POC206	P49593	0.2686
3467	POC206	A4D263	0.34989
3468	POC206	Q14519	0.39447
3469	POC206	Q6P1L6	0.28459
3470	POC206	A6NCJ1	0.22547
3471	POC206	P17022	0.29094
3472	POC206	Q9BSG1	0.43598
3473	POC206	Q712K3	0.7632
3474	POC206	P0DJH9	0.07807
3475	POC206	Q6ZR85	0.45994
3476	POC206	Q9NQ32	0.5516
3477	POC206	Q96FF9	0.99884
3478	POC206	Q9Y5B6	0.79172
3479	POC206	Q5T7N2	0.23296
3480	POC206	Q6Y7W6	0.44981
3481	POC206	Q569H4	0.68336
3482	POC206	Q6ZRM9	0.66705
3483	POC206	Q9NPJ8	0.41349
3484	POC206	Q9UJP4	0.45214
3485	POC206	Q6ZMW2	0.31629
3486	POC206	Q9Y6Y0	0.59049
3487	POC206	Q75151	0.7155
3488	POC206	Q6ZN17	1.3039
3489	POC206	P23610	0.45994
3490	POC206	Q9BS18	0.59081
3491	POC206	P14649	0.28835
3492	POC206	Q9Y333	0.58334
3493	POC206	Q95801	0.39019
3494	POC206	Q00161	0.98449
3495	POC206	Q969R8	0.051817
3496	POC206	Q7L4I2	1.6549

3497	POC206	O60356	0.96334
3498	POC206	Q9H8M2	0.24056
3499	POC206	O60248	0.63158
3500	POC206	O14974	0.44896
3501	POC206	Q9BZE2	1.1149
3502	POC206	A1L443	1.098
3503	POC206	Q9NQ29	0.57287
3504	POC206	Q15853	0.65321
3505	POC206	Q9NVX2	0.35728
3506	POC206	Q8TBZ9	1.1146
3507	POC206	Q9P0W5	0.74087
3508	POC206	Q9UJY1	0.54865
3509	POC206	Q9HCE1	0.75031
3510	POC206	P61353	0.65917
3511	POC206	Q9Y608	0.43981
3512	POC206	P17029	0.45471
3513	POC206	Q9H3K2	0.11973
3514	POC206	Q1RMZ1	0.42835
3515	POC206	Q8NDX6	0.30231
3516	POC206	Q8N655	0.45994
3517	POC206	B3EWF7	0.45994
3518	POC206	Q9C0C6	0.83422
3519	POC206	Q9BWJ2	0.15599
3520	POC206	Q96D46	0.8006
3521	POC206	Q15003	0.94646
3522	POC206	Q5TA82	0.45994
3523	POC206	Q96QF7	0.28476
3524	POC206	A1L162	0.21203
3525	POC206	Q8N365	0.68336
3526	POC206	Q9NQV7	0.3508
3527	POC206	Q14839	0.91153
3528	POC206	Q9HBT8	0.2876
3529	POC206	Q15742	0.45417
3530	POC206	P30291	0.26786
3531	POC206	O76041	0.22807
3532	POC206	Q8N7R1	0.85189
3533	POC206	Q8TEA1	0.41502
3534	POC206	O43918	1.1715
3535	POC206	P51965	0.7632
3536	POC206	A6NN90	0.30716
3537	POC206	P62888	0.6716
3538	POC206	Q8NFB8	0.53952
3539	POC206	Q6ZN28	0.77414
3540	POC206	Q96S66	0.35108
3541	POC206	Q99689	0.31929
3542	POC206	Q6ZMV8	0.57235
3543	POC206	P46020	0.1931
3544	POC206	P41134	0.40527
3545	POC206	Q8IVN3	0.88663
3546	POC206	Q6ZN57	0.29438
3547	POC206	P23246	0.82752
3548	POC206	P59780	0.22404
3549	POC206	Q70Z53	0.7674
3550	POC206	O95567	0.45994
3551	POC206	Q9H7S9	0.89838
3552	POC206	Q96KF2	0.45994
3553	POC206	Q8N2H4	1.3885
3554	POC206	Q9H0A9	1.4579
3555	POC206	P43362	0.1174
3556	POC206	O75122	0.43077
3557	POC206	P0DMB2	0.69504
3558	POC206	Q9NQZ5	0.22924
3559	POC206	P57071	0.20949
3560	POC206	Q02556	0.48286
3561	POC206	Q9H6R4	0.39558
3562	POC206	Q96H79	0.76613
3563	POC206	P53677	0.40499
3564	POC206	Q9NPG2	0.20567
3565	POC206	Q12837	0.62944
3566	POC206	O60437	0.91384
3567	POC206	P14652	0.0066297
3568	POC206	Q68CL5	0.13637
3569	POC206	O60304	0.30116
3570	POC206	Q9NUU6	0.081122
3571	POC206	O95292	0.13706
3572	POC206	A8MW95	0.073918

3573	POC206	P68133	0.17471
3574	POC206	Q86Y91	0.44633
3575	POC206	Q14999	1.0127
3576	POC206	Q03989	0.43297
3577	POC206	O95954	0.2
3578	POC206	Q8TE76	0.48497
3579	POC206	O95989	0.41535
3580	POC206	G3V211	0.80203
3581	POC206	Q9NZD2	0.55867
3582	POC206	P49366	0.42225
3583	POC206	Q92674	0.46463
3584	POC206	Q6NVV1	0.37752
3585	POC206	A6NEJ1	0.26627
3586	POC206	O14599	0.55054
3587	POC206	Q5JUW0	0.41139
3588	POC206	A6NK06	0.26285
3589	POC206	Q9UM82	1.1809
3590	POC206	Q9UJT2	0.66399
3591	POC206	Q9HCZ1	0.3304
3592	POC206	O14593	0.83548
3593	POC206	Q5T0D9	0.3764
3594	POC206	Q8N5H3	0.68336
3595	POC206	Q92782	0.8729
3596	POC206	Q6ZR54	0.45994
3597	POC206	Q9Y3C0	0.39843
3598	POC206	Q9UK11	0.43186
3599	POC206	Q96JB3	0.30227
3600	POC206	Q05215	0.221
3601	POC206	O00570	0.98762
3602	POC206	O95073	1.2277
3603	POC206	Q8WUM0	0.76248
3604	POC206	Q5SXM2	0.73072
3605	POC206	Q9H607	0.43129
3606	POC206	Q6PKG0	0.42969
3607	POC206	P80294	0.95457
3608	POC206	Q14532	0.30235
3609	POC206	A6NMD2	0.17753
3610	POC206	Q8N5Q1	1.2191
3611	POC206	Q9BYK8	0.53001
3612	POC206	Q9UBQ0	0.58132
3613	POC206	Q6TGC4	0.44306
3614	POC206	Q8IXR9	0.13021
3615	POC206	Q8TAP6	1.1059
3616	POC206	Q16670	0.37883
3617	POC206	O75427	0.60855
3618	POC206	P21673	0.27992
3619	POC206	O75410	0.93825
3620	POC206	A8MZ59	0.31537
3621	POC206	Q8N3R9	0.25809
3622	POC206	Q5SXJ2	1.4923
3623	POC206	Q969Q6	0.40355
3624	POC206	Q9BY27	0.55714
3625	POC206	Q9GZN2	0.52547
3626	POC206	Q99426	0.29128
3627	POC206	Q7Z3G6	0.36074
3628	POC206	Q92785	0.88103
3629	POC206	Q8WTV1	1.0082
3630	POC206	P69905	0.31764
3631	POC206	Q13435	0.78478
3632	POC206	Q9UQ35	0.55166
3633	POC206	P59091	0.36311
3634	POC206	Q9UKT4	1.0116
3635	POC206	P23511	1.2441
3636	POC206	Q5EE01	0.75877
3637	POC206	O14787	1.1115
3638	POC206	Q8N6Q8	0.62847
3639	POC206	O60930	0.40794
3640	POC206	Q3LI72	0.45994
3641	POC206	Q9HCD5	1.2277
3642	POC206	P51114	0.087226
3643	POC206	O15355	1.0554
3644	POC206	P54274	0.54258
3645	POC206	Q8N7Y1	0.45994
3646	POC206	A6NMV5	0.10192
3647	POC206	H3BQB6	0.98773
3648	POC206	Q15916	0.20949

3649	POC206	Q6PJG6	0.85877
3650	POC206	P42773	0.44139
3651	POC206	A6NHX0	0.87489
3652	POC206	Q96EY4	0.46692
3653	POC206	Q99547	0.73329
3654	POC206	Q6MZQ0	0.11031
3655	POC206	O00213	0.45346
3656	POC206	Q5H9K5	0.17993
3657	POC206	O60238	0.35843
3658	POC206	P60608	0.57003
3659	POC206	Q9NPG3	0.89484
3660	POC206	Q32MZ4	1.29
3661	POC206	Q8IZ40	0.7251
3662	POC206	Q13064	0.42498
3663	POC206	O15105	0.32356
3664	POC206	Q9NRL3	0.57188
3665	POC206	Q8N9H6	0.28047
3666	POC206	Q92797	0.89236
3667	POC206	Q8TEW0	0.28039
3668	POC206	O43615	0.28024
3669	POC206	P54840	0.51162
3670	POC206	O76013	0.41992
3671	POC206	Q9Y247	0.11206
3672	POC206	P54277	0.16912
3673	POC206	O43715	0.73058
3674	POC206	Q8NDW4	0.31449
3675	POC206	Q8TEV9	0.6528
3676	POC206	Q9Y2H0	0.18781
3677	POC206	A6NKD2	0.32628
3678	POC206	A6NMN3	0.38803
3679	POC206	Q9NWS9	0.29094
3680	POC206	Q96SN7	0.25003
3681	POC206	Q8N812	0.50233
3682	POC206	O75531	1.0006
3683	POC206	O00327	0.29725
3684	POC206	P23490	0.87239
3685	POC206	Q5JQS6	0.49067
3686	POC206	O14646	0.81068
3687	POC206	Q13610	0.24191
3688	POC206	O75394	0.50183
3689	POC206	P46060	0.35161
3690	POC206	Q8TCY9	0.52129
3691	POC206	P63104	1.0258
3692	POC206	P11168	0.082967
3693	POC206	Q9H7P6	1.0834
3694	POC206	Q6P1K2	1.3082
3695	POC206	Q9H1A4	0.90004
3696	POC206	Q3ZCQ8	0.13601
3697	POC206	Q9NQ03	0.24705
3698	POC206	Q9BYV9	0.43802
3699	POC206	Q96QF0	0.69117
3700	POC206	Q99767	0.37717
3701	POC206	A8MX80	0.83808
3702	POC206	Q9P1D8	0.45994
3703	POC206	Q15599	0.57017
3704	POC206	Q9Y4J8	0.26098
3705	POC206	Q969H9	0.45994
3706	POC206	Q9H9Z2	0.82694
3707	POC206	P24666	0.19923
3708	POC206	Q15061	0.32773
3709	POC206	Q9BYE7	0.99499
3710	POC206	P43351	0.83984
3711	POC206	Q4KMZ1	0.30785
3712	POC206	Q96LX8	0.33799
3713	POC206	Q9H825	0.32074
3714	POC206	Q9UIE0	0.34255
3715	POC206	Q9BTY7	0.33728
3716	POC206	Q5VVC0	0.38386
3717	POC206	Q92610	0.30501
3718	POC206	P82664	1.0238
3719	POC206	Q13952	0.71425
3720	POC206	P20132	0.11422
3721	POC206	O95718	0.32275
3722	POC206	Q6DKK2	1.2526
3723	POC206	D6RF30	0.17325
3724	POC206	Q9Y2X3	0.78046

3725	POC206	P49792	0.925
3726	POC206	P78337	0.5322
3727	POC206	Q6ZU15	0.29437
3728	POC206	Q6ZMZ3	0.22893
3729	POC206	Q92622	0.13587
3730	POC206	Q15025	0.58894
3731	POC206	O14497	0.71463
3732	POC206	Q9UPQ4	0.38535
3733	POC206	Q5W0V3	0.83274
3734	POC206	P11172	0.50879
3735	POC206	P51825	1.0651
3736	POC206	Q8N2C9	0.080872
3737	POC206	P19013	0.48846
3738	POC206	Q9UGK3	0.87898
3739	POC206	Q9H609	0.20949
3740	POC206	O14681	0.86069
3741	POC206	Q8IZD4	1.0332
3742	POC206	P43897	1.2693
3743	POC206	Q7Z7C7	0.23185
3744	POC206	P05423	0.29885
3745	POC206	Q9NVU0	0.46246
3746	POC206	A1L170	0.45994
3747	POC206	O60749	0.26957
3748	POC206	P0C7V5	0.45922
3749	POC206	Q9P2J8	0.38367
3750	POC206	Q8TF40	1.009
3751	POC206	P12036	0.47604
3752	POC206	Q9H0W9	0.81787
3753	POC206	P36578	1.0247
3754	POC206	Q96B45	0.10723
3755	POC206	P60228	1.0237
3756	POC206	O96019	1.0613
3757	POC206	Q5T7P3	0.45994
3758	POC206	P53803	0.78876
3759	POC206	Q6UUUV9	1.5887
3760	POC206	Q5BKY6	0.45994
3761	POC206	Q9HBK9	0.22651
3762	POC206	Q96N20	0.30524
3763	POC206	P49770	0.27956
3764	POC206	Q6ZNG2	0.27096
3765	POC206	Q9BWG6	0.32077
3766	POC206	Q13522	0.2544
3767	POC206	Q13619	0.46921
3768	POC206	A6NGY1	0.79384
3769	POC206	Q92784	0.27867
3770	POC206	Q13884	0.65815
3771	POC206	Q12983	0.18114
3772	POC206	Q13569	0.62463
3773	POC206	P17021	0.30568
3774	POC206	O43248	0.39474
3775	POC206	Q6ZU80	0.2035
3776	POC206	Q13166	0.45994
3777	POC206	Q8NBT2	0.88733
3778	POC206	O60682	0.41086
3779	POC206	Q8TEM1	0.3713
3780	POC206	Q9BUZ4	0.31045
3781	POC206	Q6P4D5	0.83905
3782	POC206	P0CL85	0.26555
3783	POC206	Q8IYJ3	0.27578
3784	POC206	Q9NRD1	0.28324
3785	POC206	Q96FA7	0.91329
3786	POC206	P49640	0.26603
3787	POC206	Q9BR11	0.17619
3788	POC206	P16157	0.30313
3789	POC206	Q8NBZ9	0.22592
3790	POC206	P11137	0.13703
3791	POC206	Q6ZU52	0.44439
3792	POC206	Q8N8B7	0.13249
3793	POC206	A6NE21	0.49928
3794	POC206	O60447	0.39058
3795	POC206	Q9H814	0.76404
3796	POC206	Q8WV07	0.40351
3797	POC206	Q8WUW1	0.25164
3798	POC206	A8MVW5	1.0311
3799	POC206	Q701N2	0.45994
3800	POC206	Q96GC5	0.73505

3801	POC206	Q14202	0.58004
3802	POC206	Q7Z3T8	0.23031
3803	POC206	Q14209	1.2272
3804	POC206	Q9NX63	0.94407
3805	POC206	Q96QU4	0.7095
3806	POC206	Q6PJ61	1.0107
3807	POC206	Q15651	0.85195
3808	POC206	P41162	0.43759
3809	POC206	P27816	0.64364
3810	POC206	O43345	0.39483
3811	POC206	Q9Y605	1.5382
3812	POC206	Q9BPX1	0.21914
3813	POC206	Q7L3B6	0.30964
3814	POC206	Q9BTX9	0.91258
3815	POC206	Q96BD8	0.8166
3816	POC206	Q1HG43	0.74154
3817	POC206	Q9BR46	0.77019
3818	POC206	O15151	0.3502
3819	POC206	P0C1Z6	1.4615
3820	POC206	Q8N865	0.30285
3821	POC206	Q9NVS2	0.74101
3822	POC206	Q86TJ2	0.70579
3823	POC206	Q8IYS8	0.6146
3824	POC206	Q92750	0.74789
3825	POC206	Q8N6M3	0.65899
3826	POC206	Q8NF99	0.50258
3827	POC206	Q96EH3	0.25114
3828	POC206	P27815	0.43145
3829	POC206	Q6VEQ5	0.4653
3830	POC206	Q93015	0.70967
3831	POC206	Q96HQ2	1.043
3832	POC206	Q9BTK6	0.58427
3833	POC206	Q8WYR4	0.46307
3834	POC206	Q9UK58	0.47475
3835	POC206	Q8TD35	0.68336
3836	POC206	Q96NS1	0.32773
3837	POC206	Q9UKT7	0.48901
3838	POC206	O60936	0.84415
3839	POC206	Q8N823	0.40539
3840	POC206	Q5BKY1	0.24014
3841	POC206	Q96DF8	0.99071
3842	POC206	Q5VZB9	0.25921
3843	POC206	A6NKF1	1.1555
3844	POC206	Q9UK28	0.57074
3845	POC206	P06744	0.64303
3846	POC206	Q8TBN0	0.37709
3847	POC206	Q52LA3	0.59661
3848	POC206	Q02080	0.52004
3849	POC206	P78347	0.68534
3850	POC206	Q9NWW0	0.33985
3851	POC206	Q9UHL3	0.13851
3852	POC206	Q9H0E2	0.28195
3853	POC206	Q99457	0.57048
3854	POC206	Q9UKX7	1.1464
3855	POC206	Q9H3R5	0.64137
3856	POC206	P61088	0.78602
3857	POC206	Q5T752	0.45994
3858	POC206	Q9GZR1	0.51748
3859	POC206	Q9P260	0.045074
3860	POC206	Q6P587	0.12096
3861	POC206	P50502	0.67925
3862	POC206	Q9UK45	0.65746
3863	POC206	Q49A33	0.50284
3864	POC206	Q96MF4	0.38328
3865	POC206	Q8NAE3	0.43252
3866	POC206	P82970	0.81314
3867	POC206	P14324	0.38893
3868	POC206	Q9Y3R4	0.30627
3869	POC206	Q8N9T2	0.45994
3870	POC206	P62861	1.0961
3871	POC206	P05198	0.64501
3872	POC206	Q8N1V8	0.03347
3873	POC206	Q3KNV8	1.1858
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3875	POC206	Q8TAL5	0.31499
3876	POC206	Q93075	0.69053



3877	POC206	Q12888	0.89379
3878	POC206	Q8WYJ6	0.3694
3879	POC206	Q9HD47	0.32373
3880	POC206	Q2M2Z5	0.94169
3881	POC206	O75688	0.41466
3882	POC206	P30084	0.18542
3883	POC206	Q969S3	0.95232
3884	POC206	Q16656	0.52242
3885	POC206	Q13617	0.65279
3886	POC206	P19838	0.76312
3887	POC206	O60443	0.073761
3888	POC206	Q96T49	0.33015
3889	POC206	Q9ULC6	0.88611
3890	POC206	Q9Y285	0.66673
3891	POC206	Q9H089	0.18286
3892	POC206	Q5T2T1	0.26784
3893	POC206	Q96NB3	0.73024
3894	POC206	Q8IWS0	0.80053
3895	POC206	B1AK76	0.94214
3896	POC206	Q9P1F3	0.8063
3897	POC206	O75663	0.58503
3898	POC206	Q7Z591	1.1596
3899	POC206	Q86US8	0.66947
3900	POC206	P0C860	0.51862
3901	POC206	Q6U7Q0	0.42986
3902	POC206	A6NNJ1	0.49928
3903	POC206	Q6ZTY8	0.17069
3904	POC206	Q5VYV7	0.44439
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3906	POC206	Q99743	0.47581
3907	POC206	Q86W56	0.84003
3908	POC206	A8MQ03	0.6472
3909	POC206	Q9H4S2	0.32678
3910	POC206	Q16633	0.7264
3911	POC206	Q14164	0.31474
3912	POC206	Q8NCQ2	0.64139
3913	POC206	Q8WWB7	0.37884
3914	POC206	O43298	0.20949
3915	POC206	Q8NI08	0.91921
3916	POC206	Q96SW2	0.67981
3917	POC206	Q9H0B6	0.78409
3918	POC206	Q6R327	0.17256
3919	POC206	P49917	0.1787
3920	POC206	O14490	0.32645
3921	POC206	P36508	0.19173
3922	POC206	Q8IV36	0.68651
3923	POC206	Q16526	0.533
3924	POC206	O15514	0.13893
3925	POC206	Q16082	1.0223
3926	POC206	Q8IXT2	0.25921
3927	POC206	Q717R9	0.52768
3928	POC206	Q8NF91	0.65476
3929	POC206	Q6PJW8	0.07951
3930	POC206	Q15054	0.69615
3931	POC206	Q969V6	1.4963
3932	POC206	O60925	0.1551
3933	POC206	Q9NVE4	0.26125
3934	POC206	Q9UPM8	0.41534
3935	POC206	Q9NYG5	0.99088
3936	POC206	Q96PQ6	0.53155
3937	POC206	Q92979	0.4195
3938	POC206	Q99581	0.061551
3939	POC206	Q14919	0.14894
3940	POC206	Q86SE9	1.3222
3941	POC206	Q5T280	1.2015
3942	POC206	O60841	0.12362
3943	POC206	Q9H9Q4	0.61121
3944	POC206	Q9H8S9	0.61333
3945	POC206	Q99612	0.43369
3946	POC206	Q9H943	0.026514
3947	POC206	Q9BW85	1.0118
3948	POC206	Q96FX7	0.3413
3949	POC206	P05060	0.31992
3950	POC206	Q9NVR5	0.74813
3951	POC206	P12883	0.26858
3952	POC206	Q92843	0.51684

3953	POC206	P35269	1.1729
3954	POC206	Q8ND04	0.62314
3955	POC206	O15516	0.27011
3956	POC206	Q9NZ81	1.1716
3957	POC206	Q96GX2	0.7244
3958	POC206	B1AMM8	0.19356
3959	POC206	Q9BRR8	0.88502
3960	POC206	Q9Y3P8	0.51574
3961	POC206	Q9NYF8	1.3537
3962	POC206	A6NK53	0.41273
3963	POC206	Q7Z5J4	0.23444
3964	POC206	Q9BXN6	0.33985
3965	POC206	Q6AW86	0.2778
3966	POC206	Q86X95	1.2736
3967	POC206	P10828	0.67234
3968	POC206	Q92686	0.25452
3969	POC206	Q0D2I5	0.12421
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3974	POC206	Q5DJT8	0.26814
3975	POC206	Q6ZTQ3	0.25131
3976	POC206	Q5T7W7	0.68336
3977	POC206	Q9BQE4	0.71613
3978	POC206	Q96JZ2	0.52286
3979	POC206	Q6ZN04	0.30202
3980	POC206	P22415	0.4952
3981	POC206	A2RUG3	0.82909
3982	POC206	Q9UNH5	0.8206
3983	POC206	Q9H4D5	0.60011
3984	POC206	Q9H568	0.077725
3985	POC206	A0AUZ9	0.46107
3986	POC206	Q96FV9	0.8212
3987	POC206	Q6ZT77	0.35641
3988	POC206	P62508	0.65003
3989	POC206	P59037	0.74968
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3992	POC206	P05813	0.30684
3993	POC206	Q9Y5J1	0.25418
3994	POC206	Q15041	0.047833
3995	POC206	Q8N6M9	0.38811
3996	POC206	Q9Y5B0	0.63748
3997	POC206	Q9Y4P9	0.31929
3998	POC206	Q8WW59	0.29505
3999	POC206	Q6P1N0	0.51236
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4001	POC206	Q2VPK5	0.84919
4002	POC206	Q9BXU3	0.63451
4003	POC206	Q3LI66	0.45994
4004	POC206	P19387	0.59314
4005	POC206	O43379	0.34564
4006	POC206	Q6ZWC4	0.21522
4007	POC206	Q6PI26	1.2398
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4009	POC206	Q2TAL8	0.78803
4010	POC206	P35711	1.0419
4011	POC206	A6NGK3	0.31056
4012	POC206	Q96KN4	0.079756
4013	POC206	Q9UP83	1.416
4014	POC206	A8MX34	0.35494
4015	POC206	Q8WW22	0.56222
4016	POC206	Q8TA94	0.55886
4017	POC206	Q9ULV5	0.5032
4018	POC206	Q9H788	1.1182
4019	POC206	Q15070	0.34006
4020	POC206	Q9UJX4	0.87893
4021	POC206	P08238	0.56017
4022	POC206	P40426	0.40797
4023	POC206	P04053	0.39241
4024	POC206	Q7Z333	0.29647
4025	POC206	Q13888	0.69243
4026	POC206	Q86V59	0.51418
4027	POC206	Q13907	0.36144
4028	POC206	Q93083	0.47357

4029	POC206	Q8TAX9	0.20719
4030	POC206	Q5JWF8	0.097304
4031	POC206	Q6ICG7	0.45994
4032	POC206	Q9NX04	0.44035
4033	POC206	Q0VFX6	0.68336
4034	POC206	Q5H9T9	0.4475
4035	POC206	Q96N77	0.6229
4036	POC206	P38159	0.54139
4037	POC206	Q9NSJ1	0.36975
4038	POC206	Q9ULU8	0.24483
4039	POC206	P86480	0.45994
4040	POC206	Q86XI2	0.85207
4041	POC206	Q9NRR5	0.76918
4042	POC206	Q05048	0.66085
4043	POC206	Q7Z4T9	0.84274
4044	POC206	Q9BZQ2	0.51444
4045	POC206	A6NKF2	0.7984
4046	POC206	Q3I5F7	0.17496
4047	POC206	Q6VN20	0.47516
4048	POC206	O75446	1.289
4049	POC206	Q03112	0.3179
4050	POC206	Q6UWF3	0.65506
4051	POC206	Q9NWT6	0.4872
4052	POC206	A5D8V6	0.45627
4053	POC206	Q5TH74	0.53815
4054	POC206	P0DM35	0.89436
4055	POC206	Q8TCB0	0.089889
4056	POC206	Q7Z7G2	0.41332
4057	POC206	P53999	1.391
4058	POC206	Q9ULW6	0.49789
4059	POC206	Q6ULP2	0.83282
4060	POC206	P13647	0.9048
4061	POC206	Q9BXS1	0.31036
4062	POC206	Q96RN5	1.4104
4063	POC206	Q15007	0.55485
4064	POC206	Q5VTA0	0.47258
4065	POC206	Q9UFE4	0.27522
4066	POC206	Q8WZ19	0.13338
4067	POC206	Q6A163	0.40644
4068	POC206	O15287	1.0982
4069	POC206	H3BR10	0.45994
4070	POC206	Q96M63	0.27327
4071	POC206	Q96LJ8	0.62286
4072	POC206	O60506	0.29091
4073	POC206	P09086	0.41071
4074	POC206	E5RJ46	0.45994
4075	POC206	O00712	0.28945
4076	POC206	Q8IV33	0.46021
4077	POC206	Q9UGN5	0.34006
4078	POC206	Q5SYE7	0.55766
4079	POC206	Q9BXF3	0.75752
4080	POC206	Q5MNV8	0.50849
4081	POC206	P54368	0.098952
4082	POC206	Q9BU76	0.66606
4083	POC206	O43361	0.30608
4084	POC206	Q8NCT3	0.8329
4085	POC206	Q693B1	0.096805
4086	POC206	Q8TF20	0.39483
4087	POC206	Q9GZX7	0.43649
4088	POC206	Q8TF74	0.60103
4089	POC206	Q9ULV3	0.4487
4090	POC206	Q9BXS5	0.83035
4091	POC206	P08133	0.76312
4092	POC206	Q96LT7	0.74854
4093	POC206	Q9H8G2	0.68553
4094	POC206	Q9P0W2	0.82375
4095	POC206	Q9Y3D0	1.1419
4096	POC206	Q7L5Y9	0.31333
4097	POC206	Q99081	0.47871
4098	POC206	Q13296	0.098113
4099	POC206	P11844	0.90346
4100	POC206	P0CW21	0.45994
4101	POC206	Q8N5X7	0.08823
4102	POC206	Q9H0A6	0.66106
4103	POC206	O15155	0.27948
4104	POC206	Q5HYK7	1.3048

4105	POC206	Q8N4J0	1.0032
4106	POC206	P56645	0.36894
4107	POC206	Q8IYA8	0.68336
4108	POC206	Q96HA8	1.0556
4109	POC206	Q8NE22	1.0102
4110	POC206	Q6VY07	0.63012
4111	POC206	Q8N7H5	1.0424
4112	POC206	P35321	0.54597
4113	POC206	Q7Z6J8	0.40895
4114	POC206	P17035	0.28063
4115	POC206	Q96C74	0.42051
4116	POC206	Q9UPY8	1.185
4117	POC206	Q9NTI7	0.64868
4118	POC206	Q9H1I8	0.55624
4119	POC206	Q3ZCQ2	0.45994
4120	POC206	Q9NVA1	0.2674
4121	POC206	Q9UQE7	0.29863
4122	POC206	P60604	0.93071
4123	POC206	Q16719	0.35141
4124	POC206	Q5XKL5	0.32773
4125	POC206	Q96M11	1.0496
4126	POC206	O76087	0.23762
4127	POC206	Q8NF64	1.5587
4128	POC206	Q5JVS0	0.85409
4129	POC206	Q6RW13	0.88595
4130	POC206	O96018	0.57378
4131	POC206	Q9UJW0	0.69544
4132	POC206	P22681	0.44771
4133	POC206	Q9NVM1	0.86178
4134	POC206	Q93045	0.2812
4135	POC206	Q9NSD9	0.84645
4136	POC206	Q6ZRH9	0.45994
4137	POC206	Q13542	0.49143
4138	POC206	Q13310	0.38907
4139	POC206	Q6ZV77	0.45994
4140	POC206	P83916	0.74095
4141	POC206	O95402	1.1604
4142	POC206	Q5QJE6	0.99724
4143	POC206	P50613	0.25345
4144	POC206	O75153	0.19984
4145	POC206	Q9BYC9	0.80322
4146	POC206	Q6Q795	0.45994
4147	POC206	Q9NR09	0.54087
4148	POC206	O00165	0.87138
4149	POC206	Q9BQG0	0.83305
4150	POC206	Q9H4I8	0.2729
4151	POC206	Q68G74	0.33607
4152	POC206	Q86Y97	0.54552
4153	POC206	Q9BSY9	0.36269
4154	POC206	Q13618	0.44718
4155	POC206	Q8WYQ3	0.68242
4156	POC206	Q9Y3D7	0.23277
4157	POC206	Q92917	0.92427
4158	POC206	Q9BZR9	0.45061
4159	POC206	Q9H147	0.47875
4160	POC206	Q9UIS9	0.71629
4161	POC206	Q96Q05	0.47094
4162	POC206	Q6ZRH3	0.35646
4163	POC206	P0CW20	0.2511
4164	POC206	P0C7M3	0.15893
4165	POC206	P49450	0.31234
4166	POC206	Q9HA82	0.41229
4167	POC206	P17010	0.52855
4168	POC206	Q96S19	0.28471
4169	POC206	Q9Y4A5	0.9016
4170	POC206	Q6RSH7	0.4316
4171	POC206	Q9BUV8	0.12291
4172	POC206	Q6NT46	0.23762
4173	POC206	Q86XI8	0.7572
4174	POC206	O14972	0.35924
4175	POC206	P0C2W7	0.45994
4176	POC206	Q6XYB7	0.43565
4177	POC206	A8MQB3	0.0095262
4178	POC206	O75564	0.48386
4179	POC206	Q9GZS3	1.2793
4180	POC206	O14598	0.8605

4181	POC206	Q9NVM4	0.3253
4182	POC206	P16989	0.34645
4183	POC206	A6XGL0	0.47098
4184	POC206	P35268	0.78274
4185	POC206	O95400	0.79279
4186	POC206	P17568	0.10093
4187	POC206	O95347	0.60197
4188	POC206	Q8N9V7	0.7569
4189	POC206	Q15053	0.057025
4190	POC206	Q12980	0.68791
4191	POC206	Q8IXJ9	0.90605
4192	POC206	A6NFQ7	0.43565
4193	POC206	Q8NAX2	0.68336
4194	POC206	P59047	0.36334
4195	POC206	Q5HYN5	0.29372
4196	POC206	Q8N344	0.75643
4197	POC206	Q8NAF0	0.20949
4198	POC206	P23396	0.71639
4199	POC206	Q9BVW5	1.2168
4200	POC206	O95613	0.90754
4201	POC206	P39023	0.91777
4202	POC206	Q5T8A7	0.82147
4203	POC206	Q75113	1.0291
4204	POC206	Q15560	1.277
4205	POC206	Q8WXA3	0.34631
4206	POC206	Q13068	0.11267
4207	POC206	P63000	0.54957
4208	POC206	O95257	0.42914
4209	POC206	Q9H3M9	0.37626
4210	POC206	Q7L0Y3	1.0305
4211	POC206	Q14106	0.36625
4212	POC206	Q96EP0	0.27199
4213	POC206	Q9NSC5	0.57
4214	POC206	P42166	0.31717
4215	POC206	P62258	0.86502
4216	POC206	Q86UQ0	0.29395
4217	POC206	Q13835	0.29256
4218	POC206	Q7L9B9	0.32404
4219	POC206	Q8NHY6	0.42368
4220	POC206	Q8IW36	0.46793
4221	POC206	Q96HW7	0.70712
4222	POC206	Q9BRP1	0.86821
4223	POC206	O95486	0.53122
4224	POC206	A8MZ97	0.84707
4225	POC206	Q5SWL7	0.73382
4226	POC206	Q0IIN9	0.2444
4227	POC206	P50549	0.97475
4228	POC206	Q9UKK3	0.79626
4229	POC206	O15083	0.69096
4230	POC206	Q92990	0.22119
4231	POC206	Q9H0W8	0.59647
4232	POC206	Q9UNY5	0.49332
4233	POC206	Q8NHY2	1.2316
4234	POC206	O95619	0.90177
4235	POC206	Q969M3	0.32187
4236	POC206	P20618	0.57107
4237	POC206	Q96F83	0.55795
4238	POC206	Q8N9Z2	0.57656
4239	POC206	A8MZF0	0.68336
4240	POC206	Q5BKX5	0.68336
4241	POC206	Q16658	0.18733
4242	POC206	Q86XE5	0.7395
4243	POC206	Q9Y543	0.46899
4244	POC206	Q13573	0.60901
4245	POC206	Q9ULW3	0.81591
4246	POC206	Q3LIE5	0.46467
4247	POC206	A6NEF3	0.93098
4248	POC206	Q9BWT1	1.0181
4249	POC206	Q499Z4	0.37429
4250	POC206	P32243	0.79466
4251	POC206	Q96LQ0	0.48832
4252	POC206	Q8IYE1	0.030614
4253	POC206	A0PG75	0.05827
4254	POC206	Q8N6V4	0.30866
4255	POC206	Q8WTW3	0.68148
4256	POC206	Q969X6	1.3684

4257	POC206	Q9P1J3	0.45994
4258	POC206	Q9UKN5	0.43032
4259	POC206	Q9BZV1	1.2326
4260	POC206	Q6RFH5	0.36266
4261	POC206	Q9BWJ5	0.65271
4262	POC206	Q8IWN7	0.30341
4263	POC206	P17676	0.85531
4264	POC206	P0DMB1	0.69362
4265	POC206	Q99700	0.79644
4266	POC206	P78413	0.23633
4267	POC206	Q86WP2	0.59489
4268	POC206	Q9BVS5	0.37686
4269	POC206	O94993	0.33056
4270	POC206	P35080	0.50559
4271	POC206	Q8N9Z9	0.75125
4272	POC206	Q9BUN5	0.55751
4273	POC206	O95990	0.29101
4274	POC206	Q9Y3C6	0.27642
4275	POC206	Q9H322	0.68886
4276	POC206	A6NDE8	0.23762
4277	POC206	Q53TS8	0.43389
4278	POC206	Q3LI68	0.87218
4279	POC206	Q5TA79	0.45994
4280	POC206	Q6ZVK8	0.49905
4281	POC206	Q3BBW0	0.20018
4282	POC206	O76011	0.48752
4283	POC206	Q5VIR6	0.88905
4284	POC206	Q13838	0.17632
4285	POC206	A5YM69	0.023663
4286	POC206	Q9UPU9	0.35081
4287	POC206	O00124	0.29443
4288	POC206	Q15973	0.30557
4289	POC206	Q8N490	0.51873
4290	POC206	Q9XRX5	0.44439
4291	POC206	Q6IBW4	0.36958
4292	POC206	Q8N769	0.17031
4293	POC206	Q6L8G8	0.45994
4294	POC206	Q9Y2R9	0.98732
4295	POC206	P51397	0.50028
4296	POC206	Q8WVB3	0.24465
4297	POC206	Q9BZL1	0.37783
4298	POC206	Q8I WV7	0.43621
4299	POC206	Q9UNE7	0.32817
4300	POC206	Q8IUC3	0.90014
4301	POC206	P12757	0.44888
4302	POC206	Q8WU20	0.22549
4303	POC206	Q8IZP0	0.31158
4304	POC206	Q6L8G9	0.45994
4305	POC206	Q4KN68	0.12735
4306	POC206	P32969	0.78651
4307	POC206	A6NHS1	0.47057
4308	POC206	Q5VSR9	0.80268
4309	POC206	Q9Y255	0.23374
4310	POC206	A1A4G5	0.45994
4311	POC206	Q8NC26	0.49425
4312	POC206	O95831	0.75591
4313	POC206	Q8N7X2	0.45994
4314	POC206	Q06265	0.20042
4315	POC206	O14929	0.88143
4316	POC206	Q5SZB4	0.11191
4317	POC206	Q9ULG1	0.48269
4318	POC206	Q5VT98	0.077528
4319	POC206	Q9NS69	0.18229
4320	POC206	Q13405	0.73505
4321	POC206	P60331	0.72851
4322	POC206	Q52M93	0.30231
4323	POC206	Q9HA58	0.45994
4324	POC206	P43487	0.44794
4325	POC206	O43296	0.36707
4326	POC206	Q14181	0.54035
4327	POC206	Q9BXG8	0.70375
4328	POC206	Q86WZ6	0.28863
4329	POC206	Q6UXR8	0.45994
4330	POC206	P15515	0.26644
4331	POC206	Q96H20	1.1384
4332	POC206	Q6ZVE7	0.5365

4333	POC206	A6NJ46	0.386
4334	POC206	I3L0S3	0.4602
4335	POC206	A6NKX1	0.45994
4336	POC206	H3BQW9	0.5764
4337	POC206	Q6PGQ1	0.47181
4338	POC206	Q9NZ52	0.62539
4339	POC206	Q13425	0.66843
4340	POC206	O95429	0.27813
4341	POC206	O94992	1.4055
4342	POC206	O75112	0.49453
4343	POC206	Q8TF47	0.51209
4344	POC206	F5H4B4	0.90147
4345	POC206	P63208	0.61718
4346	POC206	O14813	0.40321
4347	POC206	Q9UI56	0.45994
4348	POC206	P48668	0.38367
4349	POC206	P09497	0.52016
4350	POC206	Q9ULU4	0.78479
4351	POC206	Q8IZL2	1.014
4352	POC206	P82909	0.44136
4353	POC206	Q8IXS2	0.18333
4354	POC206	Q9UBU7	0.31615
4355	POC206	Q14139	0.63217
4356	POC206	P35232	0.60748
4357	POC206	O43708	0.4337
4358	POC206	Q8IZ20	0.20949
4359	POC206	Q9C0F3	0.6229
4360	POC206	Q5XUX1	0.44439
4361	POC206	Q13200	0.38561
4362	POC206	Q05BW5	0.29038
4363	POC206	P14136	0.36702
4364	POC206	Q9NR48	0.58159
4365	POC206	Q13015	0.63598
4366	POC206	Q8IV03	1.1762
4367	POC206	Q9UBU9	0.43356
4368	POC206	O15379	0.63598
4369	POC206	Q9H1Y0	0.4832
4370	POC206	O00110	0.30231
4371	POC206	Q5D0E6	0.82901
4372	POC206	Q8TAA3	0.26601
4373	POC206	Q92564	0.21134
4374	POC206	Q58FF3	0.39062
4375	POC206	P0C7W8	0.32934
4376	POC206	Q9GZY1	0.70629
4377	POC206	Q96CJ1	1.3064
4378	POC206	Q53HI1	0.59313
4379	POC206	Q9Y6D5	0.23125
4380	POC206	Q9BXX3	0.33372
4381	POC206	P52742	0.36979
4382	POC206	Q5JT18	0.45994
4383	POC206	P08047	0.82116
4384	POC206	Q9UEG4	0.35112
4385	POC206	A8MV72	0.36237
4386	POC206	Q9NP66	1.1378
4387	POC206	A6NJQ4	0.4045
4388	POC206	Q9Y305	0.67096
4389	POC206	P17482	1.1847
4390	POC206	P24278	1.0328
4391	POC206	Q14CW9	1.0145
4392	POC206	P18615	0.92636
4393	POC206	P51959	0.56096
4394	POC206	A6NFI3	0.28116
4395	POC206	O14556	0.36735
4396	POC206	P52597	0.37386
4397	POC206	O76021	0.5461
4398	POC206	Q711Q0	0.45994
4399	POC206	P80723	0.61666
4400	POC206	Q9BVV2	0.067231
4401	POC206	Q9BPZ3	0.59815
4402	POC206	Q9BWW4	0.77466
4403	POC206	Q13427	0.49771
4404	POC206	O95373	1.1369
4405	POC206	P60372	0.72851
4406	POC206	Q96M43	0.25901
4407	POC206	Q8IWE2	0.77533
4408	POC206	O75330	0.2985

4409	POC206	Q5VZK9	0.28348
4410	POC206	Q9NZM4	1.1771
4411	POC206	Q96C23	0.026409
4412	POC206	P62701	0.41834
4413	POC206	F8W1W9	0.35075
4414	POC206	Q8NCD3	0.66428
4415	POC206	P28070	0.37946
4416	POC206	Q9Y5J3	0.37147
4417	POC206	Q96JN0	0.6718
4418	POC206	H3BNL8	0.93601
4419	POC206	P13349	0.35328
4420	POC206	P07900	0.52104
4421	POC206	Q3YBM2	0.90535
4422	POC206	P49459	0.81893
4423	POC206	Q16630	0.22232
4424	POC206	Q9Y2S0	0.23167
4425	POC206	Q9NZV7	0.60776
4426	POC206	P51808	0.57153
4427	POC206	Q8IYX7	0.8441
4428	POC206	Q8N972	0.40539
4429	POC206	Q9UK10	0.40539
4430	POC206	Q12986	0.41996
4431	POC206	Q3C1V1	0.68336
4432	POC206	P29083	1.3429
4433	POC206	Q5T319	0.45994
4434	POC206	P04731	0.47357
4435	POC206	P51610	0.55127
4436	POC206	Q9P0M2	0.1548
4437	POC206	Q86SG2	0.35519
4438	POC206	Q7L4P6	0.41634
4439	POC206	Q8N488	0.76578
4440	POC206	A8MU93	0.68336
4441	POC206	Q7Z7B7	0.89864
4442	POC206	Q9UPT5	0.7014
4443	POC206	Q13426	0.42463
4444	POC206	O75391	0.72377
4445	POC206	Q6P087	0.29984
4446	POC206	P35606	0.53525
4447	POC206	Q8N8D1	0.72728
4448	POC206	O00264	0.059176
4449	POC206	Q5VYS4	0.1855
4450	POC206	Q6ZVQ6	1.2094
4451	POC206	Q5JUK9	0.22951
4452	POC206	Q9BVC6	0.73107
4453	POC206	P55196	0.24886
4454	POC206	Q14691	0.4
4455	POC206	Q9H3E2	0.16337
4456	POC206	Q86SZ2	0.88184
4457	POC206	O75694	0.74304
4458	POC206	O00159	0.1801
4459	POC206	O43900	0.48351
4460	POC206	Q9UKN8	0.62584
4461	POC206	A6NJG6	0.43565
4462	POC206	P0CZ20	0.39488
4463	POC206	Q96MN9	0.81858
4464	POC206	Q7Z7G8	0.096706
4465	POC206	Q9P2K5	0.15233
4466	POC206	Q96BR9	0.23725
4467	POC206	Q8WXF8	1.1552
4468	POC206	Q86XI6	0.22895
4469	POC206	Q6PJT7	1.081
4470	POC206	Q14683	0.55246
4471	POC206	Q8N141	0.5435
4472	POC206	Q9UHF7	0.67248
4473	POC206	O95922	0.019576
4474	POC206	Q86UC2	0.56503
4475	POC206	Q9Y6A5	0.086982
4476	POC206	Q6P2E9	1.1336
4477	POC206	Q5VTH2	0.6284
4478	POC206	Q96EV8	0.29861
4479	POC206	Q7RTU5	0.50915
4480	POC206	Q6NSH3	0.59951
4481	POC206	Q9UHY7	0.27376
4482	POC206	Q6ZRT6	0.68336
4483	POC206	Q9HAP2	0.82693
4484	POC206	Q8WVZ9	0.50382



4485	POC206	Q15906	1.0919
4486	POC206	Q9H944	1.1305
4487	POC206	Q9HAI6	0.69656
4488	POC206	Q9H582	0.20949
4489	POC206	Q9H974	1.3555
4490	POC206	P61575	0.80216
4491	POC206	Q9H171	0.22969
4492	POC206	Q5VWI1	0.98374
4493	POC206	Q9BTE6	0.63156
4494	POC206	P05386	1.0234
4495	POC206	P50616	0.46387
4496	POC206	Q96KR1	0.37318
4497	POC206	Q14593	0.5656
4498	POC206	Q9H175	1.212
4499	POC206	Q92985	0.57902
4500	POC206	Q8N4B5	0.68635
4501	POC206	Q969W0	0.49937
4502	POC206	Q9HCE0	0.30833
4503	POC206	Q6ZQT0	0.086017
4504	POC206	Q9UKH3	0.82824
4505	POC206	P86478	0.45994
4506	POC206	Q8N357	0.40828
4507	POC206	Q9P013	0.50631
4508	POC206	Q9NWB7	0.77896
4509	POC206	A8MPV3	0.10664
4510	POC206	P40855	0.55025
4511	POC206	Q9Y3B7	1.1155
4512	POC206	Q9BRD0	0.82072
4513	POC206	Q9H1H1	0.40703
4514	POC206	Q7RTU4	0.48008
4515	POC206	Q5TEC3	0.33372
4516	POC206	P53370	0.59716
4517	POC206	Q8N7J2	1.1573
4518	POC206	Q99445	0.40617
4519	POC206	Q95178	0.60375
4520	POC206	Q6NSJ2	0.44628
4521	POC206	Q6RFH8	0.92562
4522	POC206	Q6IQ32	0.5855
4523	POC206	P33947	0.4147
4524	POC206	O60888	0.51926
4525	POC206	Q53QV2	0.59021
4526	POC206	Q8N268	0.050805
4527	POC206	O60885	0.80666
4528	POC206	Q15011	0.63703
4529	POC206	P59051	0.16593
4530	POC206	Q4G0N7	0.66422
4531	POC206	Q96FW1	0.15129
4532	POC206	Q5H9F3	0.8047
4533	POC206	Q8N5P1	0.36729
4534	POC206	Q95707	0.90619
4535	POC206	Q9UBS8	0.80297
4536	POC206	Q9UJY5	0.65976
4537	POC206	O15049	1.084
4538	POC206	Q14149	0.36145
4539	POC206	Q7Z5V6	0.48543
4540	POC206	Q8WXF1	0.96982
4541	POC206	P63261	0.17471
4542	POC206	Q6IQ19	0.43059
4543	POC206	O95190	0.70446
4544	POC206	P48059	0.38354
4545	POC206	Q8WUI4	0.49694
4546	POC206	Q01658	0.60564
4547	POC206	Q17RY6	0.82071
4548	POC206	P34896	0.28512
4549	POC206	Q14160	0.63436
4550	POC206	P28290	0.5014
4551	POC206	Q96LK0	0.27468
4552	POC206	Q96JE7	1.0689
4553	POC206	Q86XT2	0.19313
4554	POC206	P22557	0.16499
4555	POC206	Q6DHV5	0.28137
4556	POC206	Q107X0	0.51471
4557	POC206	Q08ER8	0.39689
4558	POC206	Q9NPJ6	0.92227
4559	POC206	Q99543	0.63185
4560	POC206	O00461	0.62557

4561	POC206	P45381	0.19605
4562	POC206	Q14676	0.80784
4563	POC206	P17032	0.31775
4564	POC206	Q9UHH3	0.451
4565	POC206	Q96BJ3	0.67235
4566	POC206	Q6ZS52	0.45994
4567	POC206	Q99569	0.47258
4568	POC206	P35680	0.28977
4569	POC206	O60239	0.46196
4570	POC206	F7VJQ1	0.45994
4571	POC206	Q8N377	0.45994
4572	POC206	Q7RTU0	0.48008
4573	POC206	P49789	0.67985
4574	POC206	Q9Y5A9	0.46655
4575	POC206	Q96T88	0.42785
4576	POC206	Q15315	0.28773
4577	POC206	P49711	0.35397
4578	POC206	Q9NWX8	0.79881
4579	POC206	P35548	0.6867
4580	POC206	Q86TS9	0.43447
4581	POC206	P57081	1.0426
4582	POC206	Q8TD23	0.71907
4583	POC206	Q96EK5	0.3185
4584	POC206	Q9HC78	0.43624
4585	POC206	Q6NZI2	1.142
4586	POC206	Q96IY1	1.1014
4587	POC206	Q8N9H9	0.45994
4588	POC206	P61571	0.61046
4589	POC206	P01100	0.52638
4590	POC206	O14656	0.28006
4591	POC206	Q96JP2	0.30973
4592	POC206	Q96F86	0.61752
4593	POC206	Q71F78	0.53301
4594	POC206	Q8N7U7	0.43471
4595	POC206	P50440	0.34045
4596	POC206	P22090	0.31567
4597	POC206	Q9H2C1	0.27224
4598	POC206	Q04206	0.65727
4599	POC206	Q495M9	0.37243
4600	POC206	Q06587	0.93393
4601	POC206	H3BRN8	0.056726
4602	POC206	P0C5Y4	0.4802
4603	POC206	O60739	0.38675
4604	POC206	Q9NV06	0.34724
4605	POC206	Q4LE39	1.0669
4606	POC206	Q9P2J3	0.37131
4607	POC206	Q9UI12	0.15504
4608	POC206	P16415	0.38175
4609	POC206	Q86VX9	1.0501
4610	POC206	Q9H2K0	0.38471
4611	POC206	P49006	1.0265
4612	POC206	P53990	0.71323
4613	POC206	B5ME19	0.28162
4614	POC206	P86452	0.67443
4615	POC206	Q7Z4G4	0.19214
4616	POC206	Q5VVH5	0.79647
4617	POC206	Q75505	0.31537
4618	POC206	Q8IYX8	0.20337
4619	POC206	P24390	0.68011
4620	POC206	B9ZVM9	1.1654
4621	POC206	Q6PH81	0.24982
4622	POC206	Q9Y5R5	0.30099
4623	POC206	P09105	0.40461
4624	POC206	Q6P047	0.76076
4625	POC206	O95931	0.9497
4626	POC206	Q9BYD6	0.57035
4627	POC206	Q9NQR1	0.82339
4628	POC206	Q9UHU1	0.45994
4629	POC206	P32929	0.30483
4630	POC206	P49257	0.26086
4631	POC206	Q86VP3	0.49996
4632	POC206	Q16204	0.29906
4633	POC206	Q5HY98	0.49074
4634	POC206	Q9UPW6	0.85473
4635	POC206	Q92889	0.34715
4636	POC206	Q9Y2L8	0.55283

4637	POC206	Q8IVG9	0.18859
4638	POC206	Q8TEX9	0.65402
4639	POC206	Q86VI1	0.27642
4640	POC206	Q86X51	0.44834
4641	POC206	O95487	0.84112
4642	POC206	O14508	0.34916
4643	POC206	P25800	0.36521
4644	POC206	P84098	0.61276
4645	POC206	A4D1B5	0.11905
4646	POC206	Q86WV1	0.71631
4647	POC206	Q96AQ6	0.93192
4648	POC206	Q9Y3B8	0.1937
4649	POC206	Q9NZL4	0.44112
4650	POC206	P09913	0.63506
4651	POC206	Q9Y6F6	0.12637
4652	POC206	A6NFC5	0.51588
4653	POC206	Q7Z589	1.0104
4654	POC206	A6NJ88	0.90288
4655	POC206	P01215	0.29446
4656	POC206	Q8TDQ7	0.15216
4657	POC206	Q9HCH0	1.4168
4658	POC206	P62945	0.67945
4659	POC206	Q8TDG2	0.16231
4660	POC206	O60763	0.57347
4661	POC206	Q9H4B6	0.68876
4662	POC206	Q8TAT5	0.2905
4663	POC206	Q69YL0	0.45994
4664	POC206	Q9NWW7	0.77878
4665	POC206	O94874	0.93948
4666	POC206	Q8N8K9	0.24842
4667	POC206	O75152	0.46784
4668	POC206	O60260	0.5197
4669	POC206	P17017	0.28063
4670	POC206	Q96CN0	0.45994
4671	POC206	Q9UIF8	1.155
4672	POC206	Q9UHT4	0.45994
4673	POC206	Q8IZ63	0.45994
4674	POC206	Q8IZU0	0.84618
4675	POC206	Q96MC9	1.1153
4676	POC206	Q9BTC0	0.51199
4677	POC206	Q9BYD2	0.78575
4678	POC206	Q9UG56	0.3986
4679	POC206	O75817	0.97918
4680	POC206	Q99460	0.11513
4681	POC206	P10155	0.52106
4682	POC206	Q9Y3D2	0.33509
4683	POC206	O75792	0.97029
4684	POC206	Q8TDP1	0.51919
4685	POC206	Q8TED0	0.46792
4686	POC206	Q9H6W3	0.46751
4687	POC206	Q8TCD5	0.18959
4688	POC206	Q9NQR4	0.41447
4689	POC206	O15225	0.45994
4690	POC206	Q16740	0.41892
4691	POC206	O60268	0.30213
4692	POC206	F5GYI3	1.0063
4693	POC206	Q9UKI9	1.3562
4694	POC206	Q01831	0.80848
4695	POC206	Q7KZ85	0.41251
4696	POC206	P0CJ88	0.386
4697	POC206	Q96CW1	0.61226
4698	POC206	O60535	0.6725
4699	POC206	Q9POL1	0.37443
4700	POC206	Q6ZSR3	0.45994
4701	POC206	P0C7P2	0.18874
4702	POC206	Q96MK2	0.084068
4703	POC206	P52744	0.3559
4704	POC206	P15923	0.57673
4705	POC206	Q9BTX1	0.6462
4706	POC206	P26373	0.86825
4707	POC206	Q9H211	0.81134
4708	POC206	Q15942	0.46789
4709	POC206	Q71UM5	0.77074
4710	POC206	Q9Y6G9	0.29161
4711	POC206	Q9BQA9	0.15915
4712	POC206	Q8TF50	0.30966

4713	POC206	Q8ND90	0.8325
4714	POC206	Q5D1E8	0.8771
4715	POC206	O00198	0.74072
4716	POC206	Q96RS6	0.33985
4717	POC206	Q96PK6	0.7538
4718	POC206	Q01094	0.82878
4719	POC206	Q3ZCT1	0.33566
4720	POC206	Q9NZ72	0.12813
4721	POC206	Q9BQK8	0.13754
4722	POC206	Q9UIF9	0.80454
4723	POC206	Q5T036	0.12374
4724	POC206	Q9P219	0.54844
4725	POC206	P26998	0.85146
4726	POC206	Q14152	1.1684
4727	POC206	Q9Y3B9	0.49809
4728	POC206	Q15293	0.35233
4729	POC206	Q16626	0.15499
4730	POC206	Q15102	0.28067
4731	POC206	Q9NY33	0.29028
4732	POC206	Q0PNE2	0.68495
4733	POC206	Q14686	0.89247
4734	POC206	Q7Z7K6	0.71407
4735	POC206	Q9UJ68	0.14179
4736	POC206	Q8TCC3	0.27125
4737	POC206	P12882	0.33462
4738	POC206	P40925	0.54352
4739	POC206	Q5JPI3	0.68553
4740	POC206	Q8N8P6	0.3568
4741	POC206	Q5SXM8	0.22305
4742	POC206	Q96BT3	0.69807
4743	POC206	Q969Z0	0.39821
4744	POC206	O00204	0.50195
4745	POC206	Q5TA77	0.45994
4746	POC206	Q9UQR1	1.0078
4747	POC206	P35637	0.45298
4748	POC206	O60296	0.63827
4749	POC206	A0A183	0.45994
4750	POC206	O43491	0.37085
4751	POC206	Q6ZVN8	0.29878
4752	POC206	P60411	0.72851
4753	POC206	Q9H4Z2	0.86737
4754	POC206	O14908	0.24014
4755	POC206	Q6MZP7	0.78142
4756	POC206	Q5SV97	0.75732
4757	POC206	P61570	0.86244
4758	POC206	Q99807	0.2134
4759	POC206	Q96P15	0.27508
4760	POC206	Q8WUY8	0.59761
4761	POC206	O96028	0.55939
4762	POC206	P23526	0.18456
4763	POC206	P61981	0.59939
4764	POC206	Q7Z3K3	0.74203
4765	POC206	O00151	0.45305
4766	POC206	Q9HCI7	0.32211
4767	POC206	O94905	0.38987
4768	POC206	A0AVK6	0.47791
4769	POC206	Q8TCE6	1.1096
4770	POC206	A6NFL8	0.93098
4771	POC206	O95361	0.26559
4772	POC206	P0C7W0	0.68336
4773	POC206	Q8TEV8	0.45994
4774	POC206	Q96CX3	0.33813
4775	POC206	Q8IZ16	0.26251
4776	POC206	P15884	0.67008
4777	POC206	O15078	0.68377
4778	POC206	Q9H0P0	0.44798
4779	POC206	Q9BR84	0.57913
4780	POC206	A6NEN9	0.05351
4781	POC206	Q9Y692	0.93419
4782	POC206	Q9BUN8	0.2693
4783	POC206	Q12816	0.42409
4784	POC206	O96006	0.84028
4785	POC206	Q8TEL6	0.50904
4786	POC206	Q96F24	0.83436
4787	POC206	O00757	0.07202
4788	POC206	O43395	0.84755

4789	POC206	O15111	0.63954
4790	POC206	Q9NRI5	0.47613
4791	POC206	Q8WTS6	0.57897
4792	POC206	A8MUI8	0.46956
4793	POC206	Q9H963	0.43883
4794	POC206	P20823	0.2487
4795	POC206	Q502W7	0.30328
4796	POC206	A6NGY3	0.12155
4797	POC206	O14618	0.57886
4798	POC206	Q99728	0.36906
4799	POC206	P46777	1.117
4800	POC206	O14734	0.3652
4801	POC206	Q9NUP7	0.88757
4802	POC206	O95278	0.2662
4803	POC206	Q6ZU67	0.4231
4804	POC206	P05388	1.1511
4805	POC206	Q9NRX1	0.19092
4806	POC206	Q6ZP68	0.84164
4807	POC206	Q8WWW0	0.60248
4808	POC206	Q9UI10	0.37993
4809	POC206	Q5TYM5	0.32638
4810	POC206	Q9HD64	0.27851
4811	POC206	Q9NWT8	0.9571
4812	POC206	O94916	0.31431
4813	POC206	O95416	0.54207
4814	POC206	Q76FK4	0.32789
4815	POC206	P62979	0.45057
4816	POC206	P50539	0.36072
4817	POC206	Q9GZP9	0.23816
4818	POC206	P28347	1.1
4819	POC206	Q8NDF8	0.55645
4820	POC206	P13073	0.37206
4821	POC206	Q8NA54	0.24308
4822	POC206	P17020	0.25974
4823	POC206	Q99590	0.76132
4824	POC206	Q7Z739	0.53545
4825	POC206	P78345	0.97918
4826	POC206	Q9BWT7	0.25208
4827	POC206	P53539	0.12219
4828	POC206	P59022	0.67301
4829	POC206	Q96NL3	0.35755
4830	POC206	Q96MF0	0.18409
4831	POC206	Q8N9R8	0.80181
4832	POC206	Q96MU7	0.74915
4833	POC206	Q8IZS6	0.2429
4834	POC206	Q6T4R5	0.33364
4835	POC206	P13994	0.52156
4836	POC206	Q8NCA9	0.20949
4837	POC206	Q92546	1.0138
4838	POC206	Q96FH0	0.42103
4839	POC206	P58557	1.0551
4840	POC206	Q3SY89	0.17848
4841	POC206	Q8N616	0.45994
4842	POC206	Q9NS37	0.94781
4843	POC206	P17039	0.27283
4844	POC206	Q8TBC5	0.29094
4845	POC206	Q7Z417	0.82087
4846	POC206	Q02447	0.61327
4847	POC206	Q8TF32	0.55334
4848	POC206	Q9Y5N6	0.6727
4849	POC206	P16452	0.23951
4850	POC206	Q9Y6X0	0.028716
4851	POC206	Q06547	1.1562
4852	POC206	Q9BTL4	0.56161
4853	POC206	Q9H7Z3	0.21239
4854	POC206	Q15834	1.3154
4855	POC206	Q9P0U1	0.49482
4856	POC206	Q8N693	0.53418
4857	POC206	Q6P2Q9	0.45987
4858	POC206	P05783	1.3462
4859	POC206	Q6PUV4	0.28156
4860	POC206	Q9UJK0	1.0047
4861	POC206	Q9BUV0	0.68336
4862	POC206	A6ZKI3	0.62913
4863	POC206	O95405	0.25716
4864	POC206	P57772	0.5566

4865	POC206	Q96GY0	0.662
4866	POC206	Q5T230	1.486
4867	POC206	Q3C1V8	0.78154
4868	POC206	A8MXK9	0.15499
4869	POC206	Q9BRU9	0.39571
4870	POC206	Q86TU6	0.9777
4871	POC206	Q5T1C6	0.80091
4872	POC206	Q9Y2J4	0.39527
4873	POC206	Q6ZQT7	0.45994
4874	POC206	P67870	0.37114
4875	POC206	Q9BVL4	1.3352
4876	POC206	Q6ZSS3	0.279
4877	POC206	Q8NI35	0.42662
4878	POC206	Q92759	0.77192
4879	POC206	Q75VX8	1.0064
4880	POC206	P35789	0.50318
4881	POC206	Q96JJ3	0.32186
4882	POC206	Q96IR3	0.72264
4883	POC206	Q8WVC0	1.1244
4884	POC206	Q66GS9	0.52238
4885	POC206	P55273	0.28751
4886	POC206	P30039	0.21998
4887	POC206	Q15486	0.54467
4888	POC206	Q9Y2B2	0.78901
4889	POC206	Q9NYF3	0.4064
4890	POC206	Q6J272	1.0957
4891	POC206	P46527	0.39374
4892	POC206	Q9H1X1	0.39988
4893	POC206	O43633	0.36151
4894	POC206	O95551	0.95904
4895	POC206	Q8N841	0.19093
4896	POC206	Q8IXQ4	0.68336
4897	POC206	Q8WU49	0.45994
4898	POC206	Q8N128	0.45994
4899	POC206	Q9BZQ4	0.2441
4900	POC206	P28324	1.5804
4901	POC206	A6NMX2	0.037569
4902	POC206	Q8NFD4	0.14704
4903	POC206	O75969	0.41249
4904	POC206	Q8IUUC1	0.30526
4905	POC206	Q6ZRH4	1.5889
4906	POC206	P23284	0.39453
4907	POC206	B7ZBB8	0.13188
4908	POC206	Q03052	0.41024
4909	POC206	O95793	0.27497
4910	POC206	Q5T160	0.70526
4911	POC206	O15446	0.34982
4912	POC206	Q659C4	0.56868
4913	POC206	O43768	0.32032
4914	POC206	Q96LB3	0.78666
4915	POC206	Q9NVP1	0.13612
4916	POC206	Q8TBB1	0.97989
4917	POC206	Q96CS2	0.80565
4918	POC206	Q96LL4	0.68336
4919	POC206	Q9H2M3	0.03719
4920	POC206	Q8N1D0	0.14821
4921	POC206	Q8WU76	0.15448
4922	POC206	Q8TDY2	0.98617
4923	POC206	O43663	1.0607
4924	POC206	Q9Y2W1	0.73772
4925	POC206	P62256	0.74623
4926	POC206	P04406	0.41315
4927	POC206	Q14CN4	0.31106
4928	POC206	A8MV24	0.50351
4929	POC206	Q96AX1	0.22328
4930	POC206	O75956	0.29837
4931	POC206	Q96BY2	0.56108
4932	POC206	Q8IW35	1.3957
4933	POC206	P62318	0.72466
4934	POC206	Q8N554	0.20949
4935	POC206	Q9UPX8	0.42981
4936	POC206	P04198	0.81801
4937	POC206	Q96HP8	1.1453
4938	POC206	Q5H9L2	1.2277
4939	POC206	Q96M60	0.29278
4940	POC206	Q9BT78	1.1541

4941	POC206	Q9H8N7	0.42183
4942	POC206	P17030	0.33951
4943	POC206	Q5VV17	0.17182
4944	POC206	Q14790	0.2675
4945	POC206	P48444	0.58562
4946	POC206	Q495D7	0.32782
4947	POC206	P54727	0.8319
4948	POC206	Q6NZY4	0.72855
4949	POC206	Q5H9L4	0.17749
4950	POC206	Q6ZSA8	0.45994
4951	POC206	Q8ND99	0.13861
4952	POC206	Q15024	0.6489
4953	POC206	Q92558	0.47921
4954	POC206	Q14582	0.4215
4955	POC206	Q9BW92	0.49916
4956	POC206	Q13352	0.65877
4957	POC206	Q96IT1	0.84723
4958	POC206	Q6ZVL8	0.45994
4959	POC206	O15371	0.71222
4960	POC206	Q9HCL3	0.53058
4961	POC206	Q14771	0.63717
4962	POC206	Q6IB77	0.35659
4963	POC206	P35749	0.33462
4964	POC206	Q7Z4H7	1.1466
4965	POC206	Q6PEW1	0.28176
4966	POC206	Q5TA45	0.37411
4967	POC206	Q96ST2	0.3888
4968	POC206	Q8N7Q3	0.43586
4969	POC206	Q8IVC4	0.36355
4970	POC206	Q15006	0.45827
4971	POC206	P40222	0.74313
4972	POC206	Q68DY9	0.36892
4973	POC206	P0CJ79	0.38918
4974	POC206	Q01546	0.41667
4975	POC206	Q9UJ04	0.31262
4976	POC206	Q7RTV0	0.4518
4977	POC206	Q02083	0.11846
4978	POC206	Q5FBB7	0.94348
4979	POC206	Q9Y4X4	0.33478
4980	POC206	P57075	0.42682
4981	POC206	Q6PCB5	0.23535
4982	POC206	Q15370	1.1563
4983	POC206	Q5VZE5	0.40518
4984	POC206	H0Y354	0.43017
4985	POC206	P40926	0.23112
4986	POC206	Q9ULD2	0.63661
4987	POC206	Q5T6V5	0.22478
4988	POC206	Q5VZT2	0.19534
4989	POC206	Q13956	0.52038
4990	POC206	A6NK75	0.41937
4991	POC206	P10909	0.10316
4992	POC206	Q15234	0.93284
4993	POC206	Q8WVR3	0.68336
4994	POC206	O14893	0.63494
4995	POC206	Q8IYB1	0.39325
4996	POC206	Q8WW14	0.44797
4997	POC206	P78545	0.87139
4998	POC206	Q6P9F0	0.42526
4999	POC206	P22830	0.095865
5000	POC206	Q6PIY2	0.42568
5001	POC206	Q64ET8	0.85785
5002	POC206	Q2M3G4	0.066982
5003	POC206	Q6ZSJ8	0.68336
5004	POC206	Q8N9Q2	0.41337
5005	POC206	Q9BUL8	0.777
5006	POC206	Q8NAB5	0.45994
5007	POC206	Q5VT06	0.82803
5008	POC206	Q6PD74	0.42207
5009	POC206	Q9Y2V0	0.17182
5010	POC206	A6NK89	0.89922
5011	POC206	Q16143	0.4774
5012	POC206	Q08378	0.53603
5013	POC206	O14925	0.39503
5014	POC206	Q6P1N9	0.37
5015	POC206	Q8N157	0.24884
5016	POC206	P49916	0.31568

5017	POC206	Q9H1B4	0.41318
5018	POC206	Q9NUL3	0.69341
5019	POC206	Q13609	0.093667
5020	POC206	P17947	0.73132
5021	POC206	Q96HQ0	0.33367
5022	POC206	Q8N0Y7	0.75109
5023	POC206	Q02930	0.9136
5024	POC206	E9PJ23	0.10942
5025	POC206	Q8TDR4	0.52229
5026	POC206	Q13901	1.131
5027	POC206	A6NK39	0.34893
5028	POC206	Q9ULN7	1.0222
5029	POC206	Q92870	0.82209
5030	POC206	Q16534	0.30395
5031	POC206	Q8NHM5	0.3022
5032	POC206	P28066	0.54848
5033	POC206	Q99440	0.37966
5034	POC206	Q9NPB6	0.8197
5035	POC206	Q9BYV8	0.7642
5036	POC206	Q8N9W5	0.17026
5037	POC206	Q94903	0.65873
5038	POC206	P62899	0.66929
5039	POC206	Q76003	0.34974
5040	POC206	Q7Z713	0.33985
5041	POC206	P17028	0.88874
5042	POC206	P38936	0.28811
5043	POC206	Q9NQ92	1.0672
5044	POC206	Q5VWG9	1.0406
5045	POC206	Q9UM11	1.2672
5046	POC206	Q96S55	0.4012
5047	POC206	Q99608	0.24094
5048	POC206	Q86T82	0.45754
5049	POC206	Q6UWH4	0.98868
5050	POC206	Q96GC6	1.3555
5051	POC206	B3EWG5	0.68336
5052	POC206	O60921	0.98525
5053	POC206	Q9NQ33	0.65215
5054	POC206	P31040	0.57403
5055	POC206	O75635	0.34057
5056	POC206	Q15063	0.23321
5057	POC206	P51523	0.41273
5058	POC206	Q7L2R6	0.53104
5059	POC206	Q8NHW3	0.3583
5060	POC206	Q9UI30	0.49774
5061	POC206	Q12996	0.10267
5062	POC206	Q5C9Z4	0.72799
5063	POC206	Q96AQ7	0.64324
5064	POC206	P08107	0.57013
5065	POC206	A6NLW8	0.386
5066	POC206	P24539	0.28142
5067	POC206	P35579	0.68663
5068	POC206	Q9BPZ7	0.71757
5069	POC206	O00401	0.69013
5070	POC206	P82933	0.68659
5071	POC206	Q9UL16	0.26915
5072	POC206	A6NF01	1.1841
5073	POC206	Q9UBB6	0.602
5074	POC206	Q9H2U2	0.54608
5075	POC206	Q15819	0.66117
5076	POC206	Q9BUH8	0.58757
5077	POC206	Q8N8J6	0.20949
5078	POC206	P56182	0.7535
5079	POC206	P47813	1.0039
5080	POC206	P56537	1.2932
5081	POC206	Q9HCN2	0.45994
5082	POC206	P17152	0.50752
5083	POC206	Q8TAA5	0.46229
5084	POC206	Q8TF05	0.21502
5085	POC206	Q04864	1.2562
5086	POC206	Q969T4	0.73274
5087	POC206	Q8N1L9	0.9262
5088	POC206	O43167	0.86737
5089	POC206	Q9H4Z3	0.19866
5090	POC206	Q94927	0.80409
5091	POC206	Q9UHT9	0.45994
5092	POC206	Q4VC44	0.472



5093	POC206	Q9NXP7	0.30922
5094	POC206	P58317	0.35364
5095	POC206	A5YKK6	1.1349
5096	POC206	Q6P9G9	0.29094
5097	POC206	P49750	1.1805
5098	POC206	P62714	0.8807
5099	POC206	Q5VU43	1.1879
5100	POC206	Q9HAF1	1.1977
5101	POC206	P0C5K6	0.45994
5102	POC206	Q9BWD1	0.28891
5103	POC206	O43294	0.23169
5104	POC206	A6NN06	0.45994
5105	POC206	Q96DT0	0.14972
5106	POC206	P55895	0.63515
5107	POC206	Q9NY27	1.0073
5108	POC206	A6H8Z2	0.29736
5109	POC206	Q9BRV8	0.66808
5110	POC206	Q9NYJ8	0.65406
5111	POC206	Q9Y6I3	0.16013
5112	POC206	Q9P2F5	0.36522
5113	POC206	Q15628	0.69742
5114	POC206	Q9Y222	1.1541
5115	POC206	Q8NBF1	0.45387
5116	POC206	Q96S99	0.27541
5117	POC206	Q53HL2	1.1063
5118	POC206	O15069	0.51846
5119	POC206	Q659A1	0.2276
5120	POC206	Q6GQQ9	0.20086
5121	POC206	O00762	0.58324
5122	POC206	Q96NJ3	0.30696
5123	POC206	Q92614	0.25156
5124	POC206	Q8IWF6	0.58929
5125	POC206	Q8N7M0	0.43093
5126	POC206	Q92552	0.82405
5127	POC206	A6NGU7	0.15182
5128	POC206	Q9NRR4	0.46332
5129	POC206	Q96A49	1.2364
5130	POC206	Q86SE8	0.16819
5131	POC206	O60281	0.40475
5132	POC206	A1A4F0	0.017119
5133	POC206	Q5VWZ2	0.088054
5134	POC206	O43482	0.61231
5135	POC206	Q9UKX2	0.33462
5136	POC206	P83731	0.67945
5137	POC206	A0MZ66	0.65103
5138	POC206	Q9UHA2	0.37687
5139	POC206	Q9HA38	0.24465
5140	POC206	Q6ZQV5	0.40539
5141	POC206	Q96MF7	0.81449
5142	POC206	Q9Y3D9	0.51247
5143	POC206	Q9H665	0.39633
5144	POC206	P26371	0.45994
5145	POC206	Q9NPN8	0.041763
5146	POC206	A6NJB7	1.103
5147	POC206	Q9Y3A0	0.26417
5148	POC206	Q8N998	0.33985
5149	POC206	Q96QH2	0.22926
5150	POC206	Q9Y2L1	0.48028
5151	POC206	Q96ES7	0.2939
5152	POC206	H0UI37	0.26185
5153	POC206	P42574	0.24802
5154	POC206	Q13505	0.98825
5155	POC206	P0C5J1	0.18753
5156	POC206	Q96JM3	0.55848
5157	POC206	Q6NUP7	0.57893
5158	POC206	Q9BXM0	0.79929
5159	POC206	Q9BZK7	0.99877
5160	POC206	Q86XN8	0.26288
5161	POC206	Q9H5I1	0.72552
5162	POC206	Q9NVF7	0.80301
5163	POC206	C9JC47	0.45994
5164	POC206	O95900	0.73237
5165	POC206	Q96KD3	1.2191
5166	POC206	Q92625	0.26484
5167	POC206	Q15562	0.9138
5168	POC206	Q9BV57	0.69553

5169	POC206	Q9BZG8	0.33933
5170	POC206	O75376	0.44226
5171	POC206	Q9HCE5	0.20362
5172	POC206	Q12893	0.3106
5173	POC206	P82663	0.80083
5174	POC206	P42568	1.0129
5175	POC206	Q9H8V3	0.26916
5176	POC206	P82675	0.56522
5177	POC206	A6NI86	0.86722
5178	POC206	Q49MG5	1.2084
5179	POC206	Q96MU6	0.29467
5180	POC206	Q8WWY3	0.32455
5181	POC206	Q8TC76	1.6967
5182	POC206	Q9BYN7	0.41273
5183	POC206	Q9H165	0.31682
5184	POC206	Q9BQI5	0.32795
5185	POC206	Q7Z3V5	0.39234
5186	POC206	Q6ZNK6	1.1005
5187	POC206	Q8WWB5	0.96709
5188	POC206	Q6ZQR2	1.216
5189	POC206	Q9HBH7	0.69665
5190	POC206	Q8WUH2	0.82203
5191	POC206	Q9BV73	0.76716
5192	POC206	Q9NUQ6	0.54755
5193	POC206	Q92841	0.65876
5194	POC206	Q9Y2P8	0.50374
5195	POC206	Q9Y6R6	0.40539
5196	POC206	Q96C57	0.38994
5197	POC206	Q5SNT6	0.83662
5198	POC206	P07902	0.63044
5199	POC206	Q9GZX5	1.0339
5200	POC206	Q8N205	0.56567
5201	POC206	Q8N782	0.49209
5202	POC206	Q6X4W1	1.3755
5203	POC206	Q6ZNG1	0.41874
5204	POC206	P55795	0.061802
5205	POC206	O00267	1.1387
5206	POC206	Q9Y375	0.70603
5207	POC206	A6NEA5	0.047385
5208	POC206	A6NNL0	0.75244
5209	POC206	Q9NP87	0.2423
5210	POC206	P20809	0.25253
5211	POC206	P39019	0.77233
5212	POC206	Q92901	0.5404
5213	POC206	P0CW19	0.2511
5214	POC206	P02810	0.45994
5215	POC206	Q16533	0.62467
5216	POC206	Q5TAQ9	0.37887
5217	POC206	Q5MJ10	0.80268
5218	POC206	Q5SWA1	0.65062
5219	POC206	Q16612	0.31
5220	POC206	Q5TBB1	0.90435
5221	POC206	P02792	0.088351
5222	POC206	Q9NVV4	0.58754
5223	POC206	P51826	0.53786
5224	POC206	Q5JUQ0	0.12271
5225	POC206	P05387	0.5404
5226	POC206	Q5TAX3	0.86187
5227	POC206	Q92804	0.29927
5228	POC206	Q8NHU0	0.26814
5229	POC206	P20810	0.27082
5230	POC206	Q9H9A7	0.69851
5231	POC206	Q5TEZ4	0.45994
5232	POC206	Q15424	0.78483
5233	POC206	Q9BQY4	0.95314
5234	POC206	Q9UNZ5	0.68336
5235	POC206	Q15388	0.26743
5236	POC206	Q86XU0	0.34053
5237	POC206	O60381	0.30859
5238	POC206	O43736	0.39848
5239	POC206	A6NLC8	1.1278
5240	POC206	Q06732	0.22742
5241	POC206	Q6IN84	0.36757
5242	POC206	Q9BSM1	1.3061
5243	POC206	Q8NHV4	0.9705
5244	POC206	Q9H3F6	0.63936

5245	POC206	Q6ZR52	0.4071
5246	POC206	P61565	0.86244
5247	POC206	Q8N9Y4	1.0099
5248	POC206	O60832	0.67836
5249	POC206	Q53EL6	1.0341
5250	POC206	O14818	0.5376
5251	POC206	O75478	0.57056
5252	POC206	P46783	1.3761
5253	POC206	Q96AN2	0.22886
5254	POC206	Q8WU03	0.62298
5255	POC206	Q96FI4	0.37956
5256	POC206	P37802	0.46286
5257	POC206	O00399	0.27224
5258	POC206	Q7Z745	0.65728
5259	POC206	Q2NKX9	0.68336
5260	POC206	Q96H12	1.0065
5261	POC206	Q9NRC8	1.4412
5262	POC206	Q17RG1	0.13145
5263	POC206	Q9H2G4	0.83772
5264	POC206	P15036	0.85052
5265	POC206	O15392	0.36528
5266	POC206	Q5MCW4	0.27837
5267	POC206	Q14872	0.94021
5268	POC206	O14910	0.74759
5269	POC206	B1ATL7	0.25409
5270	POC206	O14896	0.57992
5271	POC206	Q7Z392	0.50298
5272	POC206	Q7Z465	0.76165
5273	POC206	Q9C035	0.72854
5274	POC206	Q5K131	0.17148
5275	POC206	Q6P0N0	0.90113
5276	POC206	A6NH52	0.98927
5277	POC206	P23327	0.41994
5278	POC206	Q5T5N4	0.088066
5279	POC206	Q9GZU8	0.45233
5280	POC206	Q5FWF6	0.54896
5281	POC206	Q4G0G2	0.42202
5282	POC206	P40763	0.32124
5283	POC206	Q5T8I3	0.20991
5284	POC206	P22670	0.96129
5285	POC206	Q15573	0.62513
5286	POC206	P31941	0.11275
5287	POC206	Q9UDV6	0.79316
5288	POC206	Q15937	0.32658
5289	POC206	Q6NSW5	1.0314
5290	POC206	Q6P9A1	0.48353
5291	POC206	Q86UN6	0.29409
5292	POC206	P60520	0.32186
5293	POC206	O43597	0.027603
5294	POC206	Q9H2T7	0.58364
5295	POC206	Q96AB3	0.83949
5296	POC206	Q13485	0.64689
5297	POC206	Q6P1L5	1.3885
5298	POC206	Q86UZ6	0.30231
5299	POC206	Q9NQX7	0.33777
5300	POC206	Q9H3P2	1.1872
5301	POC206	Q96L14	0.64137
5302	POC206	Q9BTA9	1.0397
5303	POC206	Q9Y4R8	0.32518
5304	POC206	Q496A3	0.28657
5305	POC206	Q9BZI1	0.26678
5306	POC206	Q8N1N5	0.63499
5307	POC206	Q8TAQ5	0.40539
5308	POC206	P25208	0.72405
5309	POC206	P56192	0.35279
5310	POC206	Q9UBZ9	0.66141
5311	POC206	Q9Y5A6	0.88936
5312	POC206	Q9H707	0.36276
5313	POC206	P48454	0.22433
5314	POC206	A2RU37	0.29388
5315	POC206	P42766	0.84165
5316	POC206	Q12840	0.39706
5317	POC206	Q96B42	0.31701
5318	POC206	P55209	0.78425
5319	POC206	P61244	0.94789
5320	POC206	Q8IWY8	0.31234

5321	POC206	Q8N6V9	0.061507
5322	POC206	Q9NRJ4	0.24757
5323	POC206	P0C7M4	0.31537
5324	POC206	Q9UPR3	1.0733
5325	POC206	Q6ISU1	0.50357
5326	POC206	Q8N3R3	0.27794
5327	POC206	Q9H008	0.53239
5328	POC206	Q15633	0.76556
5329	POC206	Q9H1Q7	0.71164
5330	POC206	P61960	0.35968
5331	POC206	Q8IWZ8	0.17176
5332	POC206	P55072	0.27077
5333	POC206	Q96MR7	1.2756
5334	POC206	Q08AF8	0.55886
5335	POC206	Q8N5J4	0.62347
5336	POC206	Q13129	0.93322
5337	POC206	Q9UKY0	0.21861
5338	POC206	Q9Y5N5	0.3844
5339	POC206	P60953	0.54053
5340	POC206	Q9NSK0	0.17092
5341	POC206	Q8TF45	0.27283
5342	POC206	Q8IWV8	0.36008
5343	POC206	Q53SZ7	0.68336
5344	POC206	P60866	0.81082
5345	POC206	Q17RF5	1.0753
5346	POC206	Q9NP92	1.0328
5347	POC206	Q14240	0.093275
5348	POC206	Q9H489	0.48222
5349	POC206	P23258	0.40823
5350	POC206	Q6UYE1	0.88528
5351	POC206	Q8IUR0	1.1307
5352	POC206	P0C866	0.065582
5353	POC206	O00139	0.56662
5354	POC206	P23760	0.9378
5355	POC206	Q9UKZ1	0.77878
5356	POC206	P23434	0.22312
5357	POC206	Q5TG08	0.90147
5358	POC206	Q9NTI5	1.0334
5359	POC206	Q9BUR4	0.84719
5360	POC206	P25791	0.62369
5361	POC206	Q9Y657	0.23043
5362	POC206	P52435	0.69376
5363	POC206	Q9BR09	0.17808
5364	POC206	Q92600	1.2623
5365	POC206	Q96EK6	0.46548
5366	POC206	Q5T5J6	0.75438
5367	POC206	Q71SY5	1.1863
5368	POC206	Q9BXP5	1.2605
5369	POC206	P61962	0.81278
5370	POC206	P0CW71	0.45994
5371	POC206	Q8TAD1	0.33985
5372	POC206	Q86WQ0	0.60367
5373	POC206	Q8N0S2	0.1779
5374	POC206	Q9BTT4	0.74411
5375	POC206	P25440	0.62252
5376	POC206	O15535	0.29094
5377	POC206	Q95295	0.49287
5378	POC206	Q7Z614	0.59717
5379	POC206	Q8IXJ6	0.53947
5380	POC206	Q9NTK5	0.64954
5381	POC206	Q12765	0.59428
5382	POC206	Q8IVK1	0.45994
5383	POC206	Q96E16	0.90187
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5386	POC206	Q13489	0.25078
5387	POC206	Q8TF39	0.5435
5388	POC206	Q96BU1	0.19589
5389	POC206	Q6NXR4	0.25501
5390	POC206	O43617	0.45329
5391	POC206	Q9NZH4	0.76259
5392	POC206	Q9NR22	0.42086
5393	POC206	Q8IYJ2	0.63187
5394	POC206	Q9NX01	0.28951
5395	POC206	O76009	0.40644
5396	POC206	Q53FN2	0.40198

5397	POC206	Q9NZJ0	0.89886
5398	POC206	Q9C0H9	0.14665
5399	POC206	O14776	1.2469
5400	POC206	Q9BSK1	0.28383
5401	POC206	P62306	0.24949
5402	POC206	Q5VWT5	0.76438
5403	POC206	P31150	0.20721
5404	POC206	Q86V42	0.4846
5405	POC206	Q7Z3Y8	0.4284
5406	POC206	Q8WYA1	0.4359
5407	POC206	Q9NWS0	0.40678
5408	POC206	Q8N612	0.69575
5409	POC206	Q9BZE4	0.41171
5410	POC206	Q9ULR0	0.90098
5411	POC206	Q15022	0.80716
5412	POC206	Q5HYK9	0.378
5413	POC206	Q9NUD7	0.076804
5414	POC206	P04818	0.12177
5415	POC206	Q96CF2	0.34798
5416	POC206	Q5HYM0	0.23217
5417	POC206	Q8TBE0	0.93327
5418	POC206	Q9H116	0.58093
5419	POC206	Q7L5D6	0.95499
5420	POC206	Q5BJE1	0.30885
5421	POC206	Q9HB21	0.30112
5422	POC206	P62487	0.4058
5423	POC206	Q2M1K9	0.42585
5424	POC206	Q9NUJ3	0.25904
5425	POC206	O95782	0.51194
5426	POC206	Q9HB75	0.78603
5427	POC206	Q6L8Q7	0.29183
5428	POC206	Q96HR8	1.1764
5429	POC206	Q701N4	0.45994
5430	POC206	Q9H6Z4	1.2604
5431	POC206	P28370	0.60793
5432	POC206	Q9BXU0	0.30982
5433	POC206	P60014	0.91057
5434	POC206	O14709	0.40539
5435	POC206	O15453	0.54639
5436	POC206	Q13148	0.46453
5437	POC206	Q8N5F7	1.4584
5438	POC206	O43172	0.67892
5439	POC206	P98171	0.26023
5440	POC206	Q9P258	0.86382
5441	POC206	Q9NYP8	0.25833
5442	POC206	P45985	0.23085
5443	POC206	Q7Z3Y7	0.44615
5444	POC206	Q9P0J0	0.55505
5445	POC206	Q96CB8	0.75073
5446	POC206	Q719I0	0.24463
5447	POC206	Q9H0C5	0.6808
5448	POC206	Q14527	0.47251
5449	POC206	Q156A1	0.45994
5450	POC206	Q5T9C2	0.68336
5451	POC206	Q96T58	0.6259
5452	POC206	Q9BRA2	0.59951
5453	POC206	P62841	0.67167
5454	POC206	Q15652	0.49083
5455	POC206	O60869	0.6874
5456	POC206	Q9H7L9	0.70678
5457	POC206	Q9H0U9	0.50685
5458	POC206	Q8WWM1	0.71216
5459	POC206	Q9NQY0	0.53062
5460	POC206	A6NNV3	0.51209
5461	POC206	Q14677	0.60754
5462	POC206	Q9UJ41	0.48809
5463	POC206	Q15366	0.87971
5464	POC206	O00541	0.47847
5465	POC206	Q9NPR9	0.93858
5466	POC206	Q99567	0.85614
5467	POC206	Q99627	0.55205
5468	POC206	Q9H5N1	0.59717
5469	POC206	A6NGG8	0.64957
5470	POC206	Q8NFG4	0.88726
5471	POC206	P62140	0.86025
5472	POC206	O75665	0.83336

5473	POC206	Q9UJX6	0.62689
5474	POC206	P32780	0.85027
5475	POC206	Q99704	0.17371
5476	POC206	Q04724	0.95574
5477	POC206	P0CG47	0.4264
5478	POC206	Q8NE71	0.42015
5479	POC206	A6NH11	0.62033
5480	POC206	A6PVY3	0.17601
5481	POC206	Q3LI59	0.45994
5482	POC206	Q13356	0.25029
5483	POC206	O60825	0.083956
5484	POC206	Q96H22	0.37495
5485	POC206	Q8N7B7	0.22959
5486	POC206	Q99459	1.1054
5487	POC206	Q99684	0.51441
5488	POC206	O60287	1.0501
5489	POC206	O15144	0.32999
5490	POC206	Q9Y3B2	0.75661
5491	POC206	Q9ULD5	0.25562
5492	POC206	Q9Y5K8	0.072028
5493	POC206	Q5VVP1	1.225
5494	POC206	Q8NC38	0.10721
5495	POC206	O60551	0.25416
5496	POC206	Q9NQ48	0.35637
5497	POC206	Q15542	1.0287
5498	POC206	Q5T0L3	1.2739
5499	POC206	Q8N8L2	0.3003
5500	POC206	Q96BN6	0.17179
5501	POC206	Q9C0C2	0.35815
5502	POC206	Q6NSI8	0.59371
5503	POC206	Q92966	0.64729
5504	POC206	P61457	1.1101
5505	POC206	O75373	0.38296
5506	POC206	A8MVJ9	0.51937
5507	POC206	Q8N587	0.48487
5508	POC206	Q9HAN9	0.35216
5509	POC206	Q49AS3	0.38116
5510	POC206	Q9HAU5	0.85638
5511	POC206	Q9NXE8	0.65719
5512	POC206	Q96N38	0.52001
5513	POC206	Q14934	0.55756
5514	POC206	Q6ZNR8	0.45994
5515	POC206	Q9UI32	0.38256
5516	POC206	Q9NXK8	0.71426
5517	POC206	Q8N336	0.3291
5518	POC206	P16333	0.67125
5519	POC206	Q9BY31	0.22565
5520	POC206	Q13561	0.9954
5521	POC206	Q96T76	1.0391
5522	POC206	O75909	1.2443
5523	POC206	Q8N4W9	0.40539
5524	POC206	Q96A00	0.35522
5525	POC206	O43447	0.624
5526	POC206	P55060	1.0108
5527	POC206	Q8NHS9	0.25665
5528	POC206	Q96BY7	0.22733
5529	POC206	O00472	0.72069
5530	POC206	Q8IXS8	0.84064
5531	POC206	P17096	0.54071
5532	POC206	B1ANY3	0.28306
5533	POC206	Q96MR9	0.4694
5534	POC206	Q33E94	1.0322
5535	POC206	Q9Y5P3	0.47228
5536	POC206	O95411	0.45994
5537	POC206	O15370	0.53383
5538	POC206	Q9BYR3	0.72851
5539	POC206	Q76N32	0.30141
5540	POC206	E9PKD4	0.024608
5541	POC206	Q8N1V2	0.63058
5542	POC206	P61580	0.95266
5543	POC206	Q9BSH5	0.47434
5544	POC206	A6NM28	0.30567
5545	POC206	Q9HCG8	0.14011
5546	POC206	Q6NTF7	0.03419
5547	POC206	Q75QN2	0.70712
5548	POC206	Q9UJ78	0.23072

5549	POC206	O43731	0.42686
5550	POC206	Q9H875	0.2941
5551	POC206	Q9H2W6	0.473
5552	POC206	Q14157	0.61857
5553	POC206	Q16864	0.079976
5554	POC206	Q13562	0.24403
5555	POC206	E9PPG2	0.31537
5556	POC206	Q16384	0.50903
5557	POC206	P36405	0.38968
5558	POC206	Q14592	0.34664
5559	POC206	Q9Y3F1	0.45994
5560	POC206	B3EWG6	0.68336
5561	POC206	Q8TE02	1.3787
5562	POC206	Q9H4G8	0.43556
5563	POC206	Q9H3H1	0.50094
5564	POC206	P23769	0.47608
5565	POC206	Q8IXM2	0.14791
5566	POC206	Q9H2G9	0.54558
5567	POC206	Q6UXP9	0.00049604
5568	POC206	Q9Y6B2	1.1298
5569	POC206	Q96MP8	0.35881
5570	POC206	Q9UH36	0.5371
5571	POC206	Q8N0V1	0.3691
5572	POC206	A4D1E9	0.87529
5573	POC206	Q9NYB0	0.82428
5574	POC206	Q8NFH4	1.034
5575	POC206	Q99747	0.66557
5576	POC206	Q96GX9	0.44841
5577	POC206	Q86V71	0.42186
5578	POC206	Q03923	0.58644
5579	POC206	Q8IVU9	0.12683
5580	POC206	Q9H7E9	0.68336
5581	POC206	Q8TBR4	0.56716
5582	POC206	A6NIH7	0.45561
5583	POC206	Q96RK1	0.80647
5584	POC206	Q5VYK3	0.39485
5585	POC206	P61583	0.95202
5586	POC206	Q14264	0.41125
5587	POC206	Q8IUC6	0.27757
5588	POC206	Q8IYI6	0.59555
5589	POC206	Q8NDH3	0.56842
5590	POC206	P29474	0.59885
5591	POC206	Q9Y2P7	0.55762
5592	POC206	Q9BUW7	0.68336
5593	POC206	Q8TEK3	0.49096
5594	POC206	Q8WUM4	1.157
5595	POC206	Q96K17	0.56371
5596	POC206	Q15013	1.0025
5597	POC206	Q9Y606	1.0684
5598	POC206	Q3SY00	0.87125
5599	POC206	Q9BX66	0.43444
5600	POC206	Q5T440	0.31566
5601	POC206	Q5TAB7	0.80293
5602	POC206	Q8N584	0.90418
5603	POC206	P11831	0.62153
5604	POC206	Q96E11	0.79488
5605	POC206	Q9BQ67	0.54755
5606	POC206	Q9UJM3	0.51723
5607	POC206	Q8WU39	0.35621
5608	POC206	Q6P2S7	0.14335
5609	POC206	Q9ULG3	0.45994
5610	POC206	Q9BWG4	0.058212
5611	POC206	O96011	0.23394
5612	POC206	P62072	0.4127
5613	POC206	Q14194	0.48609
5614	POC206	Q9H7T3	0.32239
5615	POC206	Q08050	0.51312
5616	POC206	P86481	0.45994
5617	POC206	O60244	0.57714
5618	POC206	Q00978	1.0615
5619	POC206	P28072	0.38948
5620	POC206	P33552	0.52981
5621	POC206	Q9H0R8	0.36585
5622	POC206	Q13098	0.34993
5623	POC206	P0CG08	0.61911
5624	POC206	Q494X1	0.30517

5625	POC206	P15924	0.35626
5626	POC206	Q9NV31	0.86955
5627	POC206	Q12981	0.21756
5628	POC206	Q8IX12	1.046
5629	POC206	Q9H379	0.65269
5630	POC206	Q15162	0.36145
5631	POC206	Q96LI9	0.49018
5632	POC206	Q9H9G7	0.67384
5633	POC206	P46087	0.71128
5634	POC206	Q9BY43	0.4232
5635	POC206	Q7L1Q6	0.52352
5636	POC206	P06703	0.24714
5637	POC206	Q63HM1	0.42213
5638	POC206	Q9H7B2	0.8349
5639	POC206	Q6ZU65	0.36664
5640	POC206	Q9H009	0.51846
5641	POC206	Q0D2J5	0.35148
5642	POC206	Q59GR2	0.31537
5643	POC206	Q9UHP3	0.35554
5644	POC206	Q5THR3	0.4759
5645	POC206	Q9BYR0	0.72851
5646	POC206	Q63ZY3	1.066
5647	POC206	Q7Z7L9	0.36282
5648	POC206	Q9NVV2	0.45994
5649	POC206	Q3MHD2	0.44999
5650	POC206	Q95336	0.33253
5651	POC206	Q5MJ07	0.80268
5652	POC206	Q75368	0.28923
5653	POC206	Q8NEG7	0.48593
5654	POC206	Q9H6T0	0.17804
5655	POC206	P30304	0.68947
5656	POC206	Q8N9P0	0.083548
5657	POC206	Q43678	0.65021
5658	POC206	Q9NX31	0.026652
5659	POC206	Q6ZQP7	0.45994
5660	POC206	I3L1I5	0.50898
5661	POC206	Q96JC9	1.1208
5662	POC206	A4D2B0	0.64247
5663	POC206	Q96C11	0.22864
5664	POC206	Q86YI8	0.83653
5665	POC206	Q60315	0.4169
5666	POC206	Q6P1X5	1.0731
5667	POC206	Q8IZ26	0.33954
5668	POC206	Q16520	1.0532
5669	POC206	Q9H7C4	0.46169
5670	POC206	Q8WVF5	0.13145
5671	POC206	Q94868	0.44439
5672	POC206	P61574	0.80216
5673	POC206	Q96N28	0.076529
5674	POC206	Q5T4H9	0.45994
5675	POC206	Q6NW29	0.22868
5676	POC206	Q9BVG4	0.33461
5677	POC206	P42566	0.29854
5678	POC206	Q9NS26	0.75209
5679	POC206	Q9HC38	0.28371
5680	POC206	Q96IZ7	1.1313
5681	POC206	Q6IE81	1.2953
5682	POC206	Q8IYX3	0.90868
5683	POC206	Q8NA42	0.42986
5684	POC206	Q15797	0.24586
5685	POC206	Q8N6M0	0.26612
5686	POC206	Q9UID3	0.18775
5687	POC206	Q969S2	0.24613
5688	POC206	Q13422	0.18062
5689	POC206	Q9BYS1	0.4802
5690	POC206	P63241	0.44971
5691	POC206	Q53HC0	1.151
5692	POC206	Q9UNX3	1.1315
5693	POC206	Q01664	0.58662
5694	POC206	Q9Y237	0.4545
5695	POC206	Q99966	0.22705
5696	POC206	Q2NL68	0.68336
5697	POC206	Q9NPD7	0.54461
5698	POC206	Q09FC8	0.53327
5699	POC206	Q8NDQ6	0.42986
5700	POC206	Q9UKT8	0.37932



5701	POC206	Q5T215	0.51431
5702	POC206	Q676U5	0.80252
5703	POC206	Q5TB30	0.3249
5704	POC206	Q569G3	0.68336
5705	POC206	Q5VX52	0.23748
5706	POC206	Q86W54	0.37343
5707	POC206	P43243	0.22598
5708	POC206	Q8N859	0.53502
5709	POC206	Q9BZE1	0.60944
5710	POC206	Q9Y294	1.1735
5711	POC206	P02808	0.42103
5712	POC206	Q562F6	0.90532
5713	POC206	Q9NZI6	0.64194
5714	POC206	O75691	0.90613
5715	POC206	P54136	0.76201
5716	POC206	Q8N1I0	0.36338
5717	POC206	Q9H9F9	1.4291
5718	POC206	P0CL80	0.23762
5719	POC206	Q49AJ0	0.2771
5720	POC206	Q9UHD4	0.67422
5721	POC206	Q5T4T6	1.1113
5722	POC206	Q6P582	0.82911
5723	POC206	Q8IV56	0.45082
5724	POC206	Q9BXF9	0.18718
5725	POC206	Q569K6	0.25664
5726	POC206	Q9H0F6	0.22803
5727	POC206	Q9UK76	1.0797
5728	POC206	Q6NSW7	0.43565
5729	POC206	Q15274	0.11595
5730	POC206	Q96NL8	0.65693
5731	POC206	Q9BQ90	0.88905
5732	POC206	Q96N53	0.45994
5733	POC206	Q5VT28	0.41181
5734	POC206	Q99502	0.23615
5735	POC206	P59282	0.46083
5736	POC206	P51786	0.31995
5737	POC206	Q15928	0.55147
5738	POC206	Q8WWR8	0.1869
5739	POC206	P0C671	0.11018
5740	POC206	O95521	0.51099
5741	POC206	O76015	0.40644
5742	POC206	Q9GZS1	0.59751
5743	POC206	O95218	0.56196
5744	POC206	P20749	0.43132
5745	POC206	Q6NT89	0.96202
5746	POC206	O43823	0.44161
5747	POC206	Q9ULK4	1.2915
5748	POC206	Q9Y5K6	0.39138
5749	POC206	O95639	0.44106
5750	POC206	P84103	0.48967
5751	POC206	O94925	0.55909
5752	POC206	A4D0V7	0.91412
5753	POC206	Q14674	0.40113
5754	POC206	A1L429	0.23762
5755	POC206	Q07157	0.74864
5756	POC206	P18847	1.2562
5757	POC206	Q75400	0.97275
5758	POC206	Q8N5J2	1.3101
5759	POC206	O75489	0.24981
5760	POC206	O15260	0.11494
5761	POC206	Q9H1L0	0.62125
5762	POC206	Q8IX07	0.4285
5763	POC206	Q9NVR2	1.1022
5764	POC206	Q3B820	0.69104
5765	POC206	Q9BX82	0.51482
5766	POC206	Q86Y25	0.34698
5767	POC206	Q9NPF4	0.19873
5768	POC206	Q96QD9	0.75777
5769	POC206	Q9UL36	0.2914
5770	POC206	O75953	0.78833
5771	POC206	Q4G112	0.43565
5772	POC206	Q9UJA5	0.94784
5773	POC206	O94817	0.63151
5774	POC206	P02545	0.77813
5775	POC206	Q96M91	1.1295
5776	POC206	Q8N1G4	0.296

5777	POC206	Q96BR6	0.46795
5778	POC206	Q96M83	0.1153
5779	POC206	Q9UBF2	0.44806
5780	POC206	P23588	0.21065
5781	POC206	P16278	0.17823
5782	POC206	Q6SJ96	0.3786
5783	POC206	P0DJG4	0.85083
5784	POC206	Q9BYR5	0.72851
5785	POC206	Q8N6K4	0.45994
5786	POC206	A6NNC1	1.0312
5787	POC206	P07316	0.091647
5788	POC206	Q9UHR6	0.9696
5789	POC206	Q13889	0.38706
5790	POC206	Q719H9	0.91163
5791	POC206	P82650	0.3137
5792	POC206	Q4LEZ3	1.1799
5793	POC206	O95379	0.28736
5794	POC206	Q7Z6J9	0.68451
5795	POC206	Q02952	0.37037
5796	POC206	Q01850	1.0186
5797	POC206	Q8NFK9	0.23751
5798	POC206	Q53ET0	1.6413
5799	POC206	Q5XKE5	0.37714
5800	POC206	F2Z3M2	0.45994
5801	POC206	P22532	0.45994
5802	POC206	Q9P0V3	0.67726
5803	POC206	Q6L8G5	0.45994
5804	POC206	Q9BRR0	0.52174
5805	POC206	P0DM63	0.72101
5806	POC206	P09972	0.63008
5807	POC206	Q969Q0	0.2329
5808	POC206	Q9H5Q4	0.51437
5809	POC206	Q9UBL3	0.4968
5810	POC206	Q86WJ1	0.54055
5811	POC206	A6NP61	0.766
5812	POC206	Q3BBV2	0.90881
5813	POC206	O60293	0.13539
5814	POC206	Q7Z7A1	1.3454
5815	POC206	P61513	0.67275
5816	POC206	Q2TAM9	1.098
5817	POC206	Q8IXK0	0.4634
5818	POC206	O75436	0.81866
5819	POC206	Q8WUH1	0.038898
5820	POC206	Q8NDH6	0.39448
5821	POC206	Q14154	0.60088
5822	POC206	Q6PI77	0.79872
5823	POC206	P07199	0.80823
5824	POC206	A6NDX5	0.39585
5825	POC206	P24534	0.62337
5826	POC206	Q9UK39	0.53831
5827	POC206	P20292	0.15203
5828	POC206	A6NI79	1.2873
5829	POC206	Q96FA3	0.71404
5830	POC206	P49368	0.20803
5831	POC206	Q8WXH0	0.2635
5832	POC206	Q69YH5	1.0042
5833	POC206	Q5TZK3	0.12167
5834	POC206	Q96JS3	0.43614
5835	POC206	Q8N3S3	0.48197
5836	POC206	P49716	0.49087
5837	POC206	Q5VSY0	0.51783
5838	POC206	Q9HCM9	0.5865
5839	POC206	Q6P2D8	0.3591
5840	POC206	P42226	0.87646
5841	POC206	Q6ZSN7	0.30036
5842	POC206	Q9NXG0	0.19257
5843	POC206	Q96PQ5	0.22398
5844	POC206	Q7Z5D8	0.63658
5845	POC206	Q96DE9	0.18424
5846	POC206	Q9BSY4	0.53355
5847	POC206	B2CW77	0.45994
5848	POC206	Q86UB2	0.74974
5849	POC206	Q8N7H1	0.0296
5850	POC206	Q96C28	0.48412
5851	POC206	Q6ZRQ5	0.75812
5852	POC206	Q96D09	0.1148

5853	POC206	Q9BXV9	0.45994
5854	POC206	P78396	1.0052
5855	POC206	Q08495	0.23569
5856	POC206	Q32NC0	0.41717
5857	POC206	Q9NU23	0.095934
5858	POC206	Q9H7M6	0.42061
5859	POC206	Q86TL0	0.35004
5860	POC206	Q9BYQ5	0.72851
5861	POC206	Q9BY42	0.84516
5862	POC206	Q8IY57	1.2971
5863	POC206	A6NGB9	0.35397
5864	POC206	A6NME0	0.24412
5865	POC206	Q6ISB3	0.89197
5866	POC206	Q5I0X4	0.68336
5867	POC206	Q9BQW3	0.17216
5868	POC206	Q5TD97	0.29144
5869	POC206	P53672	0.90346
5870	POC206	A6NIN4	0.45994
5871	POC206	Q9UPN7	1.1185
5872	POC206	Q9UKW6	0.56907
5873	POC206	Q9H6D7	0.80409
5874	POC206	Q8N8R7	0.66879
5875	POC206	P78344	0.38919
5876	POC206	Q9H7D7	0.54755
5877	POC206	Q8NET4	0.84911
5878	POC206	Q9HC24	0.082903
5879	POC206	P35659	0.41263
5880	POC206	Q96D98	0.80694
5881	POC206	Q6PIJ6	0.86025
5882	POC206	Q8N4B1	0.30783
5883	POC206	Q92900	0.68059
5884	POC206	Q9H3M7	0.86786
5885	POC206	Q8NI29	0.39252
5886	POC206	O75390	0.20711
5887	POC206	Q9Y2Q9	0.58063
5888	POC206	Q9BW11	0.50307
5889	POC206	Q9Y613	0.71824
5890	POC206	A8MYA2	0.31453
5891	POC206	Q6ZR93	0.45994
5892	POC206	Q04837	0.62883
5893	POC206	Q15058	0.52882
5894	POC206	Q9Y3A5	0.7692
5895	POC206	Q8IYW4	0.21744
5896	POC206	Q9NZC7	0.381
5897	POC206	Q9UPP2	0.27822
5898	POC206	Q9Y6D0	0.50467
5899	POC206	Q8N5T8	0.59395
5900	POC206	Q96NJ6	0.29991
5901	POC206	P0C7X2	0.57532
5902	POC206	Q9H6Z9	0.49771
5903	POC206	O75362	0.93828
5904	POC206	Q14829	0.3866
5905	POC206	O75800	0.71565
5906	POC206	Q8IWP9	1.0615
5907	POC206	P49458	0.65452
5908	POC206	Q96IM9	0.13687
5909	POC206	Q86YD1	0.82113
5910	POC206	Q7L8J4	0.37124
5911	POC206	Q5U5X8	0.90106
5912	POC206	P98169	0.30392
5913	POC206	Q99871	0.80327
5914	POC206	Q969X5	0.19171
5915	POC206	Q00653	1.287
5916	POC206	Q9BYG8	0.21522
5917	POC206	Q6IQ21	0.41507
5918	POC206	Q9HCE3	0.20949
5919	POC206	P07498	0.84702
5920	POC206	A6NCI8	1.0758
5921	POC206	Q8N1D5	0.29025
5922	POC206	Q86Y79	0.61529
5923	POC206	Q13362	0.19715
5924	POC206	P28702	0.52797
5925	POC206	Q13155	0.70753
5926	POC206	P41208	0.76585
5927	POC206	Q9Y3C4	0.52973
5928	POC206	P16118	0.11517

5929	POC206	Q5JR98	0.83236
5930	POC206	Q8WW01	0.35074
5931	POC206	Q5VWM1	0.47258
5932	POC206	P05121	0.2749
5933	POC206	Q99676	0.38367
5934	POC206	Q15596	0.71401
5935	POC206	Q9BUA3	0.52254
5936	POC206	Q5T5P2	0.25936
5937	POC206	Q6P1W5	0.68624
5938	POC206	Q8NFC6	1.005
5939	POC206	Q969E8	1.1776
5940	POC206	P37275	0.91126
5941	POC206	Q9BYR9	0.23291
5942	POC206	O60671	0.6666
5943	POC206	Q969R5	0.43599
5944	POC206	Q5T751	0.45994
5945	POC206	Q99417	1.6432
5946	POC206	Q9H777	0.44127
5947	POC206	Q8WX92	1.5895
5948	POC206	Q8IYM9	0.28712
5949	POC206	P0C880	0.45994
5950	POC206	O60678	0.057897
5951	POC206	Q8WUB8	0.64383
5952	POC206	Q9ULQ0	1.0873
5953	POC206	O60810	0.71545
5954	POC206	Q49A88	0.49706
5955	POC206	Q15059	1.2722
5956	POC206	Q16576	0.5165
5957	POC206	Q8N7Z2	0.53933
5958	POC206	Q5JQF7	0.45994
5959	POC206	O95817	0.50772
5960	POC206	Q9BXW6	0.31289
5961	POC206	O60809	0.5053
5962	POC206	Q96M95	0.071913
5963	POC206	P06454	0.66933
5964	POC206	Q5H9S7	0.68257
5965	POC206	Q6ZVT6	0.25026
5966	POC206	A4D2H0	0.043398
5967	POC206	P35712	0.565
5968	POC206	Q86U90	0.61213
5969	POC206	Q96M34	0.11399
5970	POC206	Q13185	0.88492
5971	POC206	A6NG73	0.34893
5972	POC206	Q16236	0.69062
5973	POC206	Q4V348	0.26368
5974	POC206	Q9UKD1	1.0193
5975	POC206	P56282	0.31184
5976	POC206	Q9BSU3	0.65979
5977	POC206	P0CG31	0.35064
5978	POC206	P20265	0.7055
5979	POC206	O15055	0.35446
5980	POC206	P0DKL9	0.86213
5981	POC206	P22087	0.62026
5982	POC206	P31271	0.20386
5983	POC206	O15350	0.37909
5984	POC206	Q96GM5	0.79497
5985	POC206	Q6ZRC1	0.45994
5986	POC206	Q9H7X3	0.30447
5987	POC206	P10243	0.70714
5988	POC206	Q16621	0.53001
5989	POC206	Q6PK81	0.35022
5990	POC206	Q13415	0.34385
5991	POC206	P26639	0.56882
5992	POC206	Q9HBX3	0.45994
5993	POC206	Q9UPG8	0.46788
5994	POC206	Q01826	0.81468
5995	POC206	Q6ZN11	0.31071
5996	POC206	Q9H832	0.79463
5997	POC206	Q96M85	0.45994
5998	POC206	Q7Z2Z1	0.8756
5999	POC206	Q8NFQ8	0.62913
6000	POC206	Q8IYF3	0.51825
6001	POC206	Q9P242	0.84349
6002	POC206	Q8N3U4	0.83339
6003	POC206	P61758	0.72525
6004	POC206	Q00597	0.96011

6005	POC206	Q96KT6	0.45994
6006	POC206	Q53F19	1.0037
6007	POC206	P14672	0.74417
6008	POC206	Q8N9K3	0.68336
6009	POC206	Q8N300	0.19405
6010	POC206	P56381	0.12451
6011	POC206	Q9UHD1	0.36082
6012	POC206	P48378	0.49155
6013	POC206	A6NKH3	0.39141
6014	POC206	Q99687	0.57125
6015	POC206	Q9NQX6	0.353
6016	POC206	Q9BVT8	0.98737
6017	POC206	Q9NPI7	0.19176
6018	POC206	Q8WWL2	0.17075
6019	POC206	O43543	0.22368
6020	POC206	Q9ULE6	0.79252
6021	POC206	Q8WZ82	0.038858
6022	POC206	Q03393	0.13115
6023	POC206	Q86UW6	0.20626
6024	POC206	Q9H2U1	0.39759
6025	POC206	Q9BYD1	0.9481
6026	POC206	Q9NXF7	0.37887
6027	POC206	Q9GZN8	0.18863
6028	POC206	P59990	0.72851
6029	POC206	Q13465	0.13224
6030	POC206	Q96MY1	0.73513
6031	POC206	Q6UWZ7	0.62329
6032	POC206	Q3BBV0	0.38485
6033	POC206	Q96FX2	1.0889
6034	POC206	Q96CN9	0.70932
6035	POC206	Q96LS8	0.28493
6036	POC206	Q5UE93	0.62321
6037	POC206	Q9NRZ9	0.26071
6038	POC206	A6NFT4	0.062842
6039	POC206	Q86WB0	1.4098
6040	POC206	Q9HBM6	0.7837
6041	POC206	O75164	1.1373
6042	POC206	Q86UE4	0.74241
6043	POC206	H3BN30	0.45994
6044	POC206	Q68CQ4	0.16423
6045	POC206	Q5H9I0	0.62003
6046	POC206	P11277	0.25658
6047	POC206	P0C7I6	1.0308
6048	POC206	I3L3R5	0.45994
6049	POC206	P07741	0.46227
6050	POC206	Q99575	0.79836
6051	POC206	Q08379	0.46672
6052	POC206	Q5VWM6	0.93208
6053	POC206	Q8NCY6	0.11206
6054	POC206	Q9Y2B4	0.36669
6055	POC206	Q96LW9	0.30488
6056	POC206	A6NIE6	0.50634
6057	POC206	H0Y7S4	0.16577
6058	POC206	Q15629	0.48554
6059	POC206	A6NJR5	0.51209
6060	POC206	Q8IUB9	0.45994
6061	POC206	P0CG13	0.10506
6062	POC206	O14617	0.18873
6063	POC206	Q9P253	0.29516
6064	POC206	O00287	0.58044
6065	POC206	Q8N987	0.41191
6066	POC206	Q92636	0.43377
6067	POC206	O14901	0.29778
6068	POC206	Q9NYF0	0.31856
6069	POC206	Q96CA5	0.34547
6070	POC206	O95198	0.5777
6071	POC206	A6NDN3	0.22107
6072	POC206	Q96GD0	0.13383
6073	POC206	P27540	0.46434
6074	POC206	Q14863	0.30712
6075	POC206	Q5T6F0	0.25095
6076	POC206	P63313	0.66868
6077	POC206	Q8NB12	0.58141
6078	POC206	Q6TDU7	0.42116
6079	POC206	Q2QGD7	0.81115
6080	POC206	Q5PSV4	0.53614

6081	POC206	O75208	0.54071
6082	POC206	O95447	0.41135
6083	POC206	Q9P2D6	0.088668
6084	POC206	Q9ULZ2	0.94616
6085	POC206	Q8NEM1	0.53784
6086	POC206	Q6ZN79	0.5083
6087	POC206	Q9BY44	0.48621
6088	POC206	Q96FN9	0.64479
6089	POC206	Q86V20	0.91316
6090	POC206	Q9Y2G9	0.77172
6091	POC206	Q3Y452	0.45994
6092	POC206	Q5VZ46	0.1103
6093	POC206	Q5TA81	0.45994
6094	POC206	P48595	0.34057
6095	POC206	C9JFL3	0.45994
6096	POC206	P17097	0.23993
6097	POC206	Q9GZR5	0.36899
6098	POC206	Q6ZRN7	0.45994
6099	POC206	Q9BYZ2	0.54372
6100	POC206	Q9NVC6	0.60612
6101	POC206	Q9P2B7	0.68336
6102	POC206	Q8IV53	0.10641
6103	POC206	P15172	0.35904
6104	POC206	P78406	0.59881
6105	POC206	Q9NWX4	0.60805
6106	POC206	P20700	0.47011
6107	POC206	Q96KW2	0.91313
6108	POC206	Q9NV79	0.083963
6109	POC206	Q9P2M7	0.56726
6110	POC206	Q6RVD6	0.45994
6111	POC206	Q9NQ50	0.8255
6112	POC206	Q06609	0.55026
6113	POC206	Q674X7	0.58257
6114	POC206	P17040	0.84799
6115	POC206	Q6P9B6	0.44439
6116	POC206	Q8N715	0.10767
6117	POC206	Q96P63	0.34169
6118	POC206	P28074	0.45294
6119	POC206	Q96EI5	0.82975
6120	POC206	Q9H204	1.3865
6121	POC206	Q8TBK2	0.62261
6122	POC206	Q3SXZ3	0.36975
6123	POC206	Q5SNV9	0.44497
6124	POC206	Q14129	0.59656
6125	POC206	Q14151	0.74266
6126	POC206	P42704	1.0155
6127	POC206	Q96PM5	0.56595
6128	POC206	Q9BQD3	0.49772
6129	POC206	Q969G3	1.0879
6130	POC206	Q8NA58	0.51585
6131	POC206	Q6ZV80	0.060794
6132	POC206	Q95625	0.3931
6133	POC206	Q8WXC6	0.25526
6134	POC206	P62277	1.0873
6135	POC206	Q9BRP4	0.50913
6136	POC206	P27469	0.73968
6137	POC206	P10412	0.071351
6138	POC206	Q14397	0.71393
6139	POC206	P46926	0.079101
6140	POC206	Q13772	0.48432
6141	POC206	Q9BXR0	1.3218
6142	POC206	Q9HBD4	0.71873
6143	POC206	Q9UKD2	0.21339
6144	POC206	Q6S9Z5	0.74428
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6146	POC206	Q8N0Z3	0.77925
6147	POC206	Q5JST6	0.45351
6148	POC206	B1AJZ1	0.022873
6149	POC206	Q96EB1	1.2275
6150	POC206	Q96QC0	0.98996
6151	POC206	Q8IUC0	0.54406
6152	POC206	Q9BRT7	0.45994
6153	POC206	Q9UHB9	0.22869
6154	POC206	P57077	0.89374
6155	POC206	Q9BYU5	0.42567
6156	POC206	Q9UBS3	0.68583

6157	POC206	A6NEH8	0.28073
6158	POC206	Q32M92	0.10622
6159	POC206	Q8N573	0.15163
6160	POC206	Q92994	0.52823
6161	POC206	Q8NDP4	0.37513
6162	POC206	Q7L9L4	0.91835
6163	POC206	Q8NEY3	0.6789
6164	POC206	P63302	0.28945
6165	POC206	Q2M3X9	0.33397
6166	POC206	P25685	0.41874
6167	POC206	O94830	0.13946
6168	POC206	Q8TC20	0.033297
6169	POC206	P27694	0.67305
6170	POC206	A7MD48	0.46862
6171	POC206	Q3LI60	0.45994
6172	POC206	P20585	0.13422
6173	POC206	A4D1E1	0.53808
6174	POC206	P42575	0.32232
6175	POC206	Q53HM4	0.33654
6176	POC206	Q8TDY3	0.16231
6177	POC206	Q9UKT9	0.60443
6178	POC206	Q8WXS3	1.1761
6179	POC206	O95067	0.70247
6180	POC206	Q5VTD9	0.42414
6181	POC206	A1L020	0.35367
6182	POC206	Q9NP64	0.42819
6183	POC206	Q9NXR1	0.47489
6184	POC206	Q9P270	0.62781
6185	POC206	P52747	0.9684
6186	POC206	Q9BWF2	0.39564
6187	POC206	P56945	0.63194
6188	POC206	Q9H910	1.0797
6189	POC206	Q00765	0.11856
6190	POC206	Q4V328	0.59105
6191	POC206	A8K554	0.10204
6192	POC206	Q4KMQ1	0.65467
6193	POC206	P0C6E6	0.044903
6194	POC206	O75843	0.75383
6195	POC206	Q9H9S0	0.27796
6196	POC206	Q53GI3	0.34372
6197	POC206	Q86U70	0.28799
6198	POC206	P45877	0.28126
6199	POC206	Q9H0M5	0.29385
6200	POC206	Q3MJ40	0.083875
6201	POC206	Q6ZP82	0.44439
6202	POC206	Q96EA4	0.9324
6203	POC206	Q9HD42	1.1921
6204	POC206	O43364	0.27301
6205	POC206	Q14192	0.7831
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6207	POC206	Q96T17	0.75492
6208	POC206	Q9Y3E5	0.61262
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6210	POC206	Q9BXX5	0.5174
6211	POC206	Q15849	0.37628
6212	POC206	Q8N1N4	0.42034
6213	POC206	Q9BYQ9	0.72851
6214	POC206	Q6ZRV2	1.0921
6215	POC206	Q9H501	1.1304
6216	POC206	Q96NA2	1.2379
6217	POC206	Q09028	0.7177
6218	POC206	Q8NDD1	0.203
6219	POC206	Q86TS7	0.45994
6220	POC206	Q86UD0	0.54755
6221	POC206	P49419	0.58954
6222	POC206	Q9H6Q4	0.45693
6223	POC206	O60346	0.28498
6224	POC206	Q9H246	0.40295
6225	POC206	Q5MIZ7	0.62921
6226	POC206	Q96BN2	0.84459
6227	POC206	Q9HC16	0.15476
6228	POC206	Q08209	0.45481
6229	POC206	Q8N1F1	0.45994
6230	POC206	O75448	0.5253
6231	POC206	O14639	0.80351
6232	POC206	P21127	0.29726

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6234	POC206	Q8TBY8	0.73692
6235	POC206	Q9H1K6	0.093775
6236	POC206	Q13438	0.1496
6237	POC206	Q6ZPB5	0.45994
6238	POC206	Q8NEG0	0.31434
6239	POC206	Q5T6X4	0.98162
6240	POC206	Q14134	0.71652
6241	POC206	Q9BR61	0.28628
6242	POC206	P0C843	0.4733
6243	POC206	Q8WUX2	0.20548
6244	POC206	Q8NEM2	0.41048
6245	POC206	Q9H9Y2	0.2509
6246	POC206	O60573	0.54257
6247	POC206	Q15031	0.33865
6248	POC206	Q86VF2	0.28084
6249	POC206	Q2T9L4	0.37411
6250	POC206	Q70YC4	0.5291
6251	POC206	Q9C0G0	0.20949
6252	POC206	Q5EBL2	0.2607
6253	POC206	Q14814	0.62059
6254	POC206	Q69YN4	0.43664
6255	POC206	Q8N8G6	0.29045
6256	POC206	Q5JVX7	0.66132
6257	POC206	Q5JY77	0.66879
6258	POC206	Q92734	0.27403
6259	POC206	Q96BF6	0.48933
6260	POC206	Q3SY84	0.38429
6261	POC206	Q14197	0.10666
6262	POC206	Q96DE5	1.1323
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6264	POC206	P11388	0.28679
6265	POC206	Q14765	0.47075
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6268	POC206	B3KS81	0.26849
6269	POC206	Q8N801	0.04685
6270	POC206	P46776	0.8892
6271	POC206	Q9NWA0	1.4398
6272	POC206	Q15847	0.45994
6273	POC206	Q9HAJ7	1.2602
6274	POC206	Q9UBR4	0.27435
6275	POC206	O43325	1.043
6276	POC206	P51814	0.23524
6277	POC206	O60663	0.75767
6278	POC206	Q7Z7C8	0.53885
6279	POC206	Q6XZF7	0.33559
6280	POC206	Q6NYC8	0.3069
6281	POC206	Q8ND76	0.73249
6282	POC206	P11474	0.53404
6283	POC206	P26678	0.56779
6284	POC206	Q96B86	0.48034
6285	POC206	Q8NFD5	1.0068
6286	POC206	Q9NUX5	0.17048
6287	POC206	Q8NDN9	0.83201
6288	POC206	Q9H9J2	0.2124
6289	POC206	Q9Y2M5	0.92287
6290	POC206	Q9UN42	0.14098
6291	POC206	P84101	1.0956
6292	POC206	O75031	0.3691
6293	POC206	Q53S33	0.85624
6294	POC206	P51815	0.2952
6295	POC206	Q9NZ38	0.14207
6296	POC206	Q96BW5	0.44628
6297	POC206	Q6W0C5	0.28179
6298	POC206	Q92530	0.53995
6299	POC206	P21506	0.36831
6300	POC206	A8MT65	0.49384
6301	POC206	P35663	0.3756
6302	POC206	Q6ZUL3	0.45994
6303	POC206	Q9UHI6	0.42604
6304	POC206	P15927	0.56848
6305	POC206	Q9UHA3	0.40361
6306	POC206	Q9UL33	0.43177
6307	POC206	Q6UWI2	0.63456
6308	POC206	Q8TAP9	1.7307



6309	POC206	Q12962	1.1539
6310	POC206	Q9ULC4	0.51497
6311	POC206	Q9UK99	0.45167
6312	POC206	Q96H86	0.31076
6313	POC206	O60303	0.20166
6314	POC206	P01106	0.4567
6315	POC206	Q3LI62	0.45994
6316	POC206	Q8NEG2	0.59115
6317	POC206	Q9P2T0	0.64303
6318	POC206	P0CW01	0.32628
6319	POC206	Q71F56	0.52218
6320	POC206	Q9GZY8	0.33622
6321	POC206	Q8NCX0	0.60772
6322	POC206	P24928	0.94568
6323	POC206	Q9NZP6	1.1841
6324	POC206	Q96M29	0.48602
6325	POC206	Q8N983	0.59491
6326	POC206	Q8N2Z9	0.71743
6327	POC206	Q5TA50	0.31353
6328	POC206	P62906	0.66333
6329	POC206	A6NHR8	0.45994
6330	POC206	Q9UBK9	1.1548
6331	POC206	Q5XUX0	0.58011
6332	POC206	Q86WR7	0.79661
6333	POC206	P62312	0.74143
6334	POC206	C9J3V5	0.47542
6335	POC206	Q8N831	0.5659
6336	POC206	Q8N319	1.382
6337	POC206	O15194	0.11085
6338	POC206	Q8IYA6	0.95624
6339	POC206	Q6ZYL4	0.87718
6340	POC206	Q86X67	0.031823
6341	POC206	Q5JRK9	1.1532
6342	POC206	Q16181	0.26738
6343	POC206	Q15555	0.33347
6344	POC206	O15504	0.72761
6345	POC206	Q9H2H8	0.27642
6346	POC206	Q8IW19	0.55069
6347	POC206	Q96K80	0.46784
6348	POC206	Q9P2Z0	0.50669
6349	POC206	P41214	0.61479
6350	POC206	Q9BQQ7	0.23552
6351	POC206	A6NEW6	0.4045
6352	POC206	Q9NX18	0.94648
6353	POC206	Q8IZT9	0.84618
6354	POC206	Q70YC5	0.47911
6355	POC206	Q96AE4	0.57915
6356	POC206	Q8WV44	0.54702
6357	POC206	Q9H7H0	0.76787
6358	POC206	Q04637	0.474
6359	POC206	Q07352	1.0275
6360	POC206	Q8NCU7	0.99021
6361	POC206	Q52M58	0.65693
6362	POC206	P61077	0.93071
6363	POC206	Q9P209	0.95296
6364	POC206	Q68EN5	0.13505
6365	POC206	O60756	0.45994
6366	POC206	P15121	0.24879
6367	POC206	Q8TBZ8	0.37111
6368	POC206	Q9BTV7	0.15207
6369	POC206	Q15750	0.56055
6370	POC206	Q9UQ80	1.0727
6371	POC206	Q9NYW8	0.32175
6372	POC206	Q3LI76	0.77252
6373	POC206	Q15047	0.9013
6374	POC206	Q99932	0.45994
6375	POC206	P49721	0.35805
6376	POC206	Q9UN36	0.61235
6377	POC206	Q504T8	0.32773
6378	POC206	P52746	0.23725
6379	POC206	Q14696	0.43554
6380	POC206	Q96LI6	0.63282
6381	POC206	Q5HYC2	0.13525
6382	POC206	O15042	0.25346
6383	POC206	Q9BUK0	0.98366
6384	POC206	Q96NL0	0.45238

6385	POC206	Q5SQS8	0.41727
6386	POC206	Q92832	0.26572
6387	POC206	P46108	0.52473
6388	POC206	Q9NP79	0.43758
6389	POC206	P63173	0.75582
6390	POC206	A8CG34	0.50029
6391	POC206	Q9BXU2	0.43609
6392	POC206	Q6L8H1	0.45994
6393	POC206	Q2M329	0.48256
6394	POC206	Q96QK1	0.88722
6395	POC206	Q8IWL3	0.66613
6396	POC206	Q96C01	0.19081
6397	POC206	Q5JSH3	0.3198
6398	POC206	Q9NUP1	0.75237
6399	POC206	Q12798	0.89844
6400	POC206	Q9NSB4	0.32897
6401	POC206	Q9ULM2	0.33154
6402	POC206	Q3ZCX4	0.3556
6403	POC206	O14595	0.37623
6404	POC206	Q58F21	0.37232
6405	POC206	Q9UGL9	0.45994
6406	POC206	Q9Y6P5	0.57951
6407	POC206	P06748	0.44383
6408	POC206	Q9UIA9	0.63683
6409	POC206	P59797	0.89776
6410	POC206	Q8TCH9	0.32929
6411	POC206	P0CE67	0.45994
6412	POC206	Q9NZZ3	1.1099
6413	POC206	P82932	0.60985
6414	POC206	O43583	0.9911
6415	POC206	Q9H0N5	0.88897
6416	POC206	Q6P9B9	0.48967
6417	POC206	A6NLIJ0	0.91681
6418	POC206	Q9UBC3	0.36245
6419	POC206	Q5T6F2	0.96758
6420	POC206	P84090	0.34419
6421	POC206	Q9C0E2	1.0399
6422	POC206	P49756	0.4263
6423	POC206	P55199	1.1058
6424	POC206	Q99594	1.2175
6425	POC206	O75398	0.35969
6426	POC206	P0CG24	0.30614
6427	POC206	Q14331	0.53072
6428	POC206	Q12769	1.0706
6429	POC206	Q92796	0.39278
6430	POC206	P14635	0.34921
6431	POC206	Q9BYD9	0.35257
6432	POC206	Q9H8K7	0.36064
6433	POC206	O95456	0.6156
6434	POC206	Q9UPP5	0.58232
6435	POC206	Q96QA5	0.29599
6436	POC206	Q96FV2	0.69222
6437	POC206	A6NJ64	0.43431
6438	POC206	Q93034	0.74085
6439	POC206	Q8NFP7	0.011653
6440	POC206	Q8TAP4	0.3011
6441	POC206	Q92945	0.70661
6442	POC206	Q9NY74	1.0102
6443	POC206	Q12972	0.77509
6444	POC206	Q9UJC3	0.17971
6445	POC206	Q8N485	0.23713
6446	POC206	B2RXF5	0.58935
6447	POC206	Q9BQI9	1.069
6448	POC206	Q5TID7	0.47352
6449	POC206	P01011	0.35973
6450	POC206	P0CF75	0.11258
6451	POC206	Q9NZC4	0.098612
6452	POC206	Q8NCE0	0.67912
6453	POC206	Q96N06	0.45285
6454	POC206	Q2M3C7	0.64122
6455	POC206	P59103	0.20885
6456	POC206	Q96QT6	1.1553
6457	POC206	Q8NBB4	0.36224
6458	POC206	A6NC62	0.1941
6459	POC206	Q9H321	0.8605
6460	POC206	Q96A09	0.61707

6461	POC206	Q7L804	0.72079
6462	POC206	O00170	0.75924
6463	POC206	Q96DI7	0.61153
6464	POC206	Q9H8W5	0.30581
6465	POC206	Q14584	0.34316
6466	POC206	P60006	0.64415
6467	POC206	Q5SRH9	1.0084
6468	POC206	Q92466	0.7612
6469	POC206	Q7Z6K5	0.1517
6470	POC206	Q8N5U0	0.45994
6471	POC206	Q6RUI8	0.41276
6472	POC206	Q6DD87	0.2773
6473	POC206	Q7L266	0.3976
6474	POC206	A4D0Y5	0.45994
6475	POC206	Q96RL1	0.89733
6476	POC206	Q9UMR2	0.27502
6477	POC206	Q99814	0.41467
6478	POC206	Q9BY41	0.60431
6479	POC206	P39880	0.69201
6480	POC206	Q8IUM7	0.30441
6481	POC206	Q9NYK5	0.58209
6482	POC206	Q13503	0.77565
6483	POC206	Q15198	0.49081
6484	POC206	Q96SC8	0.28102
6485	POC206	Q14585	0.30439
6486	POC206	Q86V25	0.096286
6487	POC206	H0YL14	0.51886
6488	POC206	Q96K83	0.3294
6489	POC206	Q86X53	0.22585
6490	POC206	Q96B67	0.44832
6491	POC206	Q7Z2X7	0.65491
6492	POC206	P84550	0.043882
6493	POC206	Q5T3Y7	0.19896
6494	POC206	P09629	1.0333
6495	POC206	Q9UPW5	0.1184
6496	POC206	Q9P0T4	0.48789
6497	POC206	P56279	0.7811
6498	POC206	Q7Z6Z7	0.38531
6499	POC206	Q8N5W9	0.32415
6500	POC206	Q15015	0.86737
6501	POC206	F8WFD2	0.45121
6502	POC206	P53992	1.1277
6503	POC206	Q6QNY0	0.70823
6504	POC206	Q96FZ7	0.14742
6505	POC206	P08670	0.16668
6506	POC206	P60510	1.0644
6507	POC206	Q14689	0.42652
6508	POC206	P63165	1.1007
6509	POC206	Q8WV99	0.46731
6510	POC206	Q15363	0.19138
6511	POC206	Q3LI61	0.45994
6512	POC206	Q95644	0.87628
6513	POC206	Q9BXS6	0.84359
6514	POC206	Q8N4L8	0.33983
6515	POC206	Q6B0B8	0.50786
6516	POC206	P0C7H8	0.23291
6517	POC206	Q12912	0.97062
6518	POC206	Q9NT62	0.49786
6519	POC206	Q9P127	0.32109
6520	POC206	P09661	0.52868
6521	POC206	Q92529	0.2918
6522	POC206	Q15084	0.87993
6523	POC206	O75179	0.29167
6524	POC206	Q9NQ55	0.4904
6525	POC206	P55345	0.39092
6526	POC206	P11532	0.61764
6527	POC206	Q53QW1	0.68336
6528	POC206	P11387	0.7356
6529	POC206	Q43684	0.82289
6530	POC206	Q99798	0.12573
6531	POC206	Q8IZS5	0.34373
6532	POC206	Q2TAK8	0.82177
6533	POC206	Q43660	0.31223
6534	POC206	Q9Y483	0.28201
6535	POC206	Q86UU5	0.65131
6536	POC206	Q9NV70	0.52809

6537	POC206	B2RD01	0.11891
6538	POC206	Q14549	0.45255
6539	POC206	Q1MSJ5	1.3184
6540	POC206	P62987	0.7163
6541	POC206	Q9H8W4	0.31555
6542	POC206	Q17R26	0.33385
6543	POC206	E9PQ53	0.86464
6544	POC206	Q14865	0.35928
6545	POC206	Q9NYZ3	0.76848
6546	POC206	Q8TAP8	0.44537
6547	POC206	Q8N184	0.30612
6548	POC206	Q9NQT4	0.44347
6549	POC206	Q9H2P0	0.29226
6550	POC206	Q9NV56	0.75737
6551	POC206	P04259	0.28425
6552	POC206	Q86UL8	0.36926
6553	POC206	Q9Y2R5	0.53087
6554	POC206	Q14257	0.39015
6555	POC206	P56524	0.38593
6556	POC206	P42167	0.33519
6557	POC206	Q9BYX4	0.32267
6558	POC206	Q8NFW8	0.22808
6559	POC206	Q13033	0.77721
6560	POC206	O60583	1.1291
6561	POC206	Q16762	0.23296
6562	POC206	Q8WXU2	0.86726
6563	POC206	Q15018	0.26812
6564	POC206	Q75347	1.1537
6565	POC206	P61968	0.38815
6566	POC206	O43439	1.1078
6567	POC206	Q9Y3I1	0.96862
6568	POC206	Q13404	1.0697
6569	POC206	Q6ZVF9	0.63464
6570	POC206	P38919	0.17755
6571	POC206	Q9Y5R8	0.12241
6572	POC206	Q14526	0.74761
6573	POC206	O75335	0.2367
6574	POC206	Q7RTT5	0.26627
6575	POC206	Q9NV72	0.55067
6576	POC206	Q96GE5	0.50104
6577	POC206	Q6P435	0.38603
6578	POC206	P61086	0.72531
6579	POC206	Q53HR8	0.15998
6580	POC206	Q9Y2X0	0.54557
6581	POC206	P13196	0.32491
6582	POC206	P28356	0.26688
6583	POC206	Q8N5D0	0.62117
6584	POC206	O75821	0.45918
6585	POC206	Q7Z6K1	0.73741
6586	POC206	Q9Y5U9	1.0605
6587	POC206	Q9UFB7	0.31909
6588	POC206	Q96PV6	0.78664
6589	POC206	Q13094	0.65132
6590	POC206	Q16352	0.43294
6591	POC206	P41238	0.063219
6592	POC206	Q8N1A0	0.32596
6593	POC206	Q9Y3B1	0.062818
6594	POC206	O75886	1.2852
6595	POC206	O00257	1.1208
6596	POC206	Q96IT6	0.45994
6597	POC206	Q9Y2Y0	1.1787
6598	POC206	O60543	0.39087
6599	POC206	Q9BWC9	0.96503
6600	POC206	Q9BSK0	0.96663
6601	POC206	Q96C10	0.22842
6602	POC206	P28069	0.77043
6603	POC206	Q6NVH7	0.73133
6604	POC206	Q7RTS7	0.30526
6605	POC206	Q16637	0.82328
6606	POC206	Q9UND3	0.48024
6607	POC206	P14373	0.43527
6608	POC206	Q86WS4	0.45994
6609	POC206	Q96S59	1.034
6610	POC206	A9YTD3	0.42495
6611	POC206	P23297	0.65544
6612	POC206	Q96EF9	0.36043

6613	P0C206	Q6AZW8	0.31456
6614	P0C206	Q9NYZ1	0.98927
6615	P0C206	Q8WY22	0.76544
6616	P0C206	Q9BY65	0.59957
6617	P0C206	Q9BXW9	0.9612
6618	P0C206	Q9ULW8	0.50612
6619	P0C206	P48788	0.59844
6620	P0C206	Q7L3T8	0.39396
6621	P0C206	P62308	0.62822
6622	P0C206	Q00987	0.27735
6623	P0C206	Q6ZRP0	0.68336
6624	P0C206	Q86V87	0.61532
6625	P0C206	Q13106	0.31962
6626	P0C206	Q99614	0.31625
6627	P0C206	O14965	0.40063
6628	P0C206	P02511	0.43726
6629	P0C206	Q9BQQ3	0.30027
6630	P0C206	P10599	0.37568
6631	P0C206	Q9Y473	0.50016
6632	P0C206	P62891	0.5984
6633	P0C206	Q14980	1.2562
6634	P0C206	Q6NX45	0.32044
6635	P0C206	Q95873	0.68336
6636	P0C206	P49247	0.6919
6637	P0C206	Q93062	0.79515
6638	P0C206	Q13363	0.41786
6639	P0C206	Q7L2J0	0.18102
6640	P0C206	P62269	0.73801
6641	P0C206	Q9P2J5	0.31434
6642	P0C206	Q9NS86	0.30362
6643	P0C206	Q8N1B4	0.73891
6644	P0C206	P39748	0.36792
6645	P0C206	Q9Y4B6	0.97175
6646	P0C206	Q9BSH4	1.0354
6647	P0C206	Q8NCP5	0.20949
6648	P0C206	Q9H5Z6	0.68336
6649	P0C206	Q9UHB4	0.64815
6650	P0C206	Q92837	0.89239
6651	P0C206	O43805	0.71176
6652	P0C206	Q8N4C6	0.52454
6653	P0C206	Q6ZNH5	0.34661
6654	P0C206	Q5T619	0.31292
6655	P0C206	Q8WUZ0	0.63879
6656	P0C206	Q96AQ9	0.43121
6657	P0C206	P61925	0.23138
6658	P0C206	Q9HCH5	0.72576
6659	P0C206	A8MVA2	0.72851
6660	P0C206	P41220	0.48624
6661	P0C206	Q52LG2	0.25905
6662	P0C206	Q9GZV8	0.12332
6663	P0C206	Q96SZ4	0.32373
6664	P0C206	P42768	0.38933
6665	P0C206	Q9GZR2	0.20129
6666	P0C206	P29692	0.37183
6667	P0C206	Q9P206	0.77913
6668	P0C206	P35244	0.67884
6669	P0C206	P07737	0.91204
6670	P0C206	Q5SVZ6	0.91033
6671	P0C206	Q96GM8	0.3686
6672	P0C206	Q7Z2W4	0.56336
6673	P0C206	Q5JRC9	0.66423
6674	P0C206	Q8N0Z8	0.4593
6675	P0C206	A6NGR9	0.49792
6676	P0C206	Q8TF68	0.34497
6677	P0C206	Q9UM13	0.77695
6678	P0C206	Q08AN1	0.40539
6679	P0C206	Q86XN6	0.40471
6680	P0C206	Q96MT8	1.2654
6681	P0C206	P62753	0.97999
6682	P0C206	Q7Z3E2	0.59105
6683	P0C206	Q96I24	0.54083
6684	P0C206	O14512	0.59184
6685	P0C206	A6NEQ2	0.45994
6686	P0C206	Q86YV9	1.1
6687	P0C206	O75525	0.78463
6688	P0C206	Q6PEY1	0.89197

6689	POC206	P08397	0.29405
6690	POC206	Q5TA78	0.45994
6691	POC206	O75570	0.45254
6692	POC206	Q7Z460	0.53173
6693	POC206	Q15390	0.26256
6694	POC206	A6NF36	0.57969
6695	POC206	Q6ZRP5	0.45994
6696	POC206	Q9H6B1	0.51176
6697	POC206	Q7Z5Y7	0.13145
6698	POC206	Q9HBH1	0.73255
6699	POC206	Q9NVM9	1.3132
6700	POC206	A6NL46	0.9591
6701	POC206	A1L3Z2	0.15876
6702	POC206	Q02577	0.72154
6703	POC206	O76031	0.61295
6704	POC206	Q9C0F1	0.47609
6705	POC206	Q7Z6E9	0.61163
6706	POC206	Q9NTG7	0.69813
6707	POC206	P20719	0.22596
6708	POC206	Q96B01	0.64647
6709	POC206	O75351	0.42459
6710	POC206	C9JLW8	0.61032
6711	POC206	Q9NTX7	0.6529
6712	POC206	Q9NS23	0.59524
6713	POC206	O95391	0.26739
6714	POC206	Q8N339	0.37631
6715	POC206	Q8TCN5	0.20949
6716	POC206	Q7Z6B0	0.63073
6717	POC206	P08151	0.40796
6718	POC206	Q9BZF9	0.6052
6719	POC206	P20396	0.50987
6720	POC206	Q969T9	1.2402
6721	POC206	Q5VZV4	0.46953
6722	POC206	O43924	0.21637
6723	POC206	A6NES4	0.42105
6724	POC206	Q8WWB3	0.012471
6725	POC206	Q9Y2W2	0.75704
6726	POC206	Q13118	0.49748
6727	POC206	Q8NC74	0.41707
6728	POC206	Q8TAC9	0.64174
6729	POC206	P07738	0.78224
6730	POC206	Q8TAU0	0.2486
6731	POC206	Q15929	0.52526
6732	POC206	Q05877	0.84893
6733	POC206	Q13424	0.35119
6734	POC206	Q8N668	0.93529
6735	POC206	P08621	0.251
6736	POC206	Q7L5N1	1.1956
6737	POC206	P0CAT3	0.016902
6738	POC206	Q8IU81	0.44908
6739	POC206	O75143	1.1597
6740	POC206	Q8NHX4	0.55286
6741	POC206	P02795	0.74749
6742	POC206	O95685	0.37167
6743	POC206	Q9P2D0	0.35201
6744	POC206	P48552	0.70134
6745	POC206	Q5TFG8	0.38327
6746	POC206	Q6ZMV5	0.56283
6747	POC206	Q06250	0.45994
6748	POC206	Q49AN0	0.27497
6749	POC206	Q5JVG8	0.50739
6750	POC206	Q9NUK0	0.096735
6751	POC206	P54826	0.23919
6752	POC206	Q9UN81	0.50318
6753	POC206	Q9Y221	0.81213
6754	POC206	Q5VSD8	0.14569
6755	POC206	A1L4L8	0.64331
6756	POC206	Q96ER9	0.2556
6757	POC206	Q9HBF5	0.83987
6758	POC206	Q13347	0.74204
6759	POC206	P87889	0.16645
6760	POC206	P48539	0.27078
6761	POC206	Q6ZN55	0.30741
6762	POC206	P46779	1.0234
6763	POC206	Q9NQS7	1.0845
6764	POC206	Q14203	1.1036

6765	POC206	Q5VV52	0.26569
6766	POC206	Q9BQ83	0.78748
6767	POC206	Q6ZS94	0.45994
6768	POC206	Q9UJ72	0.1565
6769	POC206	Q9NTW7	0.50505
6770	POC206	Q6ZNG0	0.32699
6771	POC206	P17038	0.4071
6772	POC206	Q9NPL8	0.7007
6773	POC206	Q00403	1.2514
6774	POC206	Q59EK9	0.55905
6775	POC206	Q96PP4	0.13742
6776	POC206	Q9BYM8	0.23391
6777	POC206	A6NK58	0.35252
6778	POC206	Q8NEZ5	0.81499
6779	POC206	Q8WWM7	0.627
6780	POC206	Q53G59	0.59697
6781	POC206	Q01130	0.66096
6782	POC206	P30405	0.28126
6783	POC206	A6NN14	0.4071
6784	POC206	O15117	0.70943
6785	POC206	Q6XCG6	0.45994
6786	POC206	Q01469	0.29927
6787	POC206	Q8TEE9	1.0906
6788	POC206	A6NL82	0.3701
6789	POC206	O60675	0.54125
6790	POC206	Q5JU67	0.13201
6791	POC206	Q86VM9	0.35131
6792	POC206	Q14802	0.28777
6793	POC206	Q9NQZ2	0.19991
6794	POC206	Q8ND61	0.90084
6795	POC206	P15822	1.1087
6796	POC206	Q9H3H3	0.28043
6797	POC206	Q8NB42	0.53541
6798	POC206	P07954	0.17441
6799	POC206	Q6ZV65	0.33241
6800	POC206	A6NEQ9	0.45994
6801	POC206	A7E2U8	0.48763
6802	POC206	O75935	1.0824
6803	POC206	Q9UL46	0.31616
6804	POC206	Q9NZD4	0.64093
6805	POC206	Q96M53	1.1874
6806	POC206	Q9UGB4	0.45994
6807	POC206	Q15776	0.68852
6808	POC206	Q66K89	0.93943
6809	POC206	O43310	0.51385
6810	POC206	O60711	0.64748
6811	POC206	P31948	1.0927
6812	POC206	Q15154	0.67339
6813	POC206	Q6Q759	0.77148
6814	POC206	Q96PT4	0.27096
6815	POC206	Q9BY89	0.23834
6816	POC206	Q8NCK3	0.37259
6817	POC206	Q96B02	0.34952
6818	POC206	O14558	0.86766
6819	POC206	Q16613	0.26459
6820	POC206	Q8NFB3	1.034
6821	POC206	Q92547	0.83777
6822	POC206	Q9NX05	0.51473
6823	POC206	Q9BYR8	1.0016
6824	POC206	P02042	0.41469
6825	POC206	P52294	1.1214
6826	POC206	Q5VTE6	0.091748
6827	POC206	Q8N6H7	0.23091
6828	POC206	Q68DI1	0.30556
6829	POC206	A5PLN9	0.53713
6830	POC206	Q9NXB0	0.94993
6831	POC206	Q6PG37	0.54509
6832	POC206	Q93073	0.73854
6833	POC206	Q15323	0.41992
6834	POC206	P21912	0.25193
6835	POC206	Q8NA03	0.55898
6836	POC206	O15297	0.71257
6837	POC206	Q2NL82	0.59362
6838	POC206	Q96Q06	0.90603
6839	POC206	P63172	0.93571
6840	POC206	Q3YBR2	0.61709

6841	POC206	Q00059	0.92652
6842	POC206	Q8IYK2	0.75655
6843	POC206	Q13105	0.62535
6844	POC206	Q06830	0.27731
6845	POC206	P41161	0.27295
6846	POC206	Q86WG3	0.38408
6847	POC206	Q3KQU3	0.79987
6848	POC206	Q5TCM9	0.45994
6849	POC206	A0JLT2	1.0197
6850	POC206	P63220	0.59441
6851	POC206	Q14609	0.85783
6852	POC206	P0CG30	0.44089
6853	POC206	P36873	0.82811
6854	POC206	Q13042	1.3754
6855	POC206	H0YKK7	0.88867
6856	POC206	Q6NVV0	0.72147
6857	POC206	P0CG00	0.37883
6858	POC206	Q8N4C0	0.097618
6859	POC206	Q8IYB7	0.26316
6860	POC206	A8K0S8	0.31537
6861	POC206	Q9BRQ6	1.2716
6862	POC206	O14513	0.65996
6863	POC206	Q9Y252	0.57815
6864	POC206	P31249	0.58925
6865	POC206	Q6NUR6	0.67636
6866	POC206	Q8N443	0.40274
6867	POC206	P12035	0.4573
6868	POC206	P42224	0.23617
6869	POC206	P60412	0.72851
6870	POC206	P62310	0.57834
6871	POC206	Q5SZD4	0.6401
6872	POC206	O15126	0.45843
6873	POC206	P47928	0.4938
6874	POC206	Q969S8	0.90939
6875	POC206	Q9NRP2	0.92384
6876	POC206	P60842	0.066905
6877	POC206	P02489	0.39106
6878	POC206	Q9P2X3	0.16346
6879	POC206	P58005	0.34143
6880	POC206	Q5RHP9	0.43445
6881	POC206	Q9H1B7	1.0357
6882	POC206	Q96IU4	0.56782
6883	POC206	Q8WV92	0.49319
6884	POC206	Q9H4W6	0.14295
6885	POC206	Q9UK53	0.25193
6886	POC206	Q9Y2Y1	0.20983
6887	POC206	P52736	0.81752
6888	POC206	Q9H040	0.72896
6889	POC206	O95177	0.20572
6890	POC206	A8MVS1	0.56088
6891	POC206	Q96E09	0.80301
6892	POC206	Q3KRA6	1.1722
6893	POC206	P50548	0.47897
6894	POC206	Q5JNZ5	0.62971
6895	POC206	Q6VB84	0.52107
6896	POC206	O76064	0.40914
6897	POC206	Q9UBX0	0.25859
6898	POC206	Q8IYL2	0.53639
6899	POC206	Q96PC3	0.45645
6900	POC206	Q9Y6I8	0.31941
6901	POC206	Q8WXG1	0.10013
6902	POC206	Q9HBM0	0.61028
6903	POC206	Q96MW7	0.44813
6904	POC206	Q9BXD5	0.68658
6905	POC206	Q5TC12	0.56479
6906	POC206	Q9NPC6	0.89755
6907	POC206	Q9Y6C7	0.45994
6908	POC206	A3KN83	0.95479
6909	POC206	Q9BSW2	0.92473
6910	POC206	Q4G163	0.12969
6911	POC206	Q0P140	0.26483
6912	POC206	A5A3E0	0.16333
6913	POC206	Q96A44	0.61261
6914	POC206	P52758	0.61083
6915	POC206	Q9H469	0.34026
6916	POC206	Q9H9Y6	0.83436



6917	POC206	P0CW26	0.39488
6918	POC206	Q8ND83	1.195
6919	POC206	Q96DY2	0.16979
6920	POC206	P13051	1.1504
6921	POC206	Q99576	0.57737
6922	POC206	Q92540	1.0369
6923	POC206	Q92499	0.43934
6924	POC206	A8MUX0	0.49553
6925	POC206	Q8NHQ1	1.535
6926	POC206	Q8TDC0	0.61674
6927	POC206	Q5BKX8	0.18463
6928	POC206	Q8NHQ8	0.90673
6929	POC206	A6NNA2	0.72905
6930	POC206	Q8IY18	0.57529
6931	POC206	Q8TB05	0.68336
6932	POC206	Q969H4	0.26131
6933	POC206	P22033	0.51424
6934	POC206	Q9UMS0	1.1867
6935	POC206	Q9BXJ9	0.7744
6936	POC206	Q99549	0.80996
6937	POC206	Q15643	1.1636
6938	POC206	Q8TDZ2	0.25382
6939	POC206	Q9H8M1	0.17829
6940	POC206	Q9BU89	0.27007
6941	POC206	P50748	0.9594
6942	POC206	P49356	0.22985
6943	POC206	O60563	1.5947
6944	POC206	Q9BXM8	0.45994
6945	POC206	Q5VWK0	0.079262
6946	POC206	Q15398	1.1239
6947	POC206	Q96EY1	0.47406
6948	POC206	Q96K31	0.4838
6949	POC206	Q14693	0.41629
6950	POC206	Q68DN1	0.34873
6951	POC206	Q9BXY0	0.32773
6952	POC206	Q9ULK2	0.82891
6953	POC206	Q8WUY3	0.46383
6954	POC206	Q96IK1	0.40745
6955	POC206	Q9BSJ6	0.63617
6956	POC206	Q96DM3	0.27643
6957	POC206	Q9Y6M1	0.34142
6958	POC206	Q9H3C7	1.0302
6959	POC206	O43593	0.34784
6960	POC206	Q96K58	0.28309
6961	POC206	O00423	0.64474
6962	POC206	Q5SWL8	0.26699
6963	POC206	Q9UGR2	0.58324
6964	POC206	Q6GPH4	0.62649
6965	POC206	O00479	0.68165
6966	POC206	P15880	0.87489
6967	POC206	Q53H80	0.4795
6968	POC206	B4DX44	0.57753
6969	POC206	Q58A44	0.45994
6970	POC206	Q96G25	1.0597
6971	POC206	Q9Y244	0.50774
6972	POC206	Q8WYQ5	0.70603
6973	POC206	Q96RE9	0.29783
6974	POC206	P35580	0.28432
6975	POC206	Q96MD2	0.18785
6976	POC206	O15027	0.79164
6977	POC206	P12956	0.45675
6978	POC206	P55197	1.6586
6979	POC206	Q86YS3	0.25862
6980	POC206	Q96NB1	0.29293
6981	POC206	Q494X3	0.55028
6982	POC206	Q96N03	0.44439
6983	POC206	Q8IY92	0.52473
6984	POC206	Q9P2N6	0.36304
6985	POC206	Q9BYQ4	0.72851
6986	POC206	Q9HAW4	0.58003
6987	POC206	Q13227	1.1246
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6989	POC206	Q9HAK2	0.14295
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6991	POC206	Q9BW19	0.39724
6992	POC206	Q96FT9	0.11978

6993	POC206	Q8NFV5	0.51209
6994	POC206	A7XYQ1	0.48467
6995	POC206	Q9NY61	0.98927
6996	POC206	O43189	0.80238
6997	POC206	Q6P3W6	0.80594
6998	POC206	Q8NCN5	0.072023
6999	POC206	Q96PM9	0.6229
7000	POC206	Q9BU02	0.80849
7001	POC206	Q9BQN1	1.0776
7002	POC206	Q9Y3X0	0.54851
7003	POC206	Q14119	0.42428
7004	POC206	P17014	0.30003
7005	POC206	Q9NZF1	0.33436
7006	POC206	P23528	0.76639
7007	POC206	A8K5M9	1.1171
7008	POC206	Q9NX20	0.54016
7009	POC206	H3BNL1	0.54687
7010	POC206	Q00005	0.62069
7011	POC206	P00338	0.54372
7012	POC206	Q9UBI9	0.72448
7013	POC206	Q9NU63	0.28849
7014	POC206	Q8NCE8	0.66614
7015	POC206	P42025	0.5174
7016	POC206	Q00839	0.29228
7017	POC206	Q15051	0.76707
7018	POC206	Q9Y2T7	0.2166
7019	POC206	Q15833	0.40791
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7021	POC206	Q9NZU5	0.51507
7022	POC206	P46379	0.28476
7023	POC206	P13535	0.26858
7024	POC206	Q96KT0	0.0096923
7025	POC206	Q86T03	1.0188
7026	POC206	Q6P1R3	0.61896
7027	POC206	Q6ZT83	0.19163
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7029	POC206	Q92618	0.20949
7030	POC206	P55210	0.28791
7031	POC206	Q96GK7	0.50112
7032	POC206	Q9H019	0.63251
7033	POC206	Q8NBA8	0.24992
7034	POC206	Q14498	0.69489
7035	POC206	Q96EH5	0.6927
7036	POC206	Q96CS3	0.66048
7037	POC206	Q8TAF5	0.45994
7038	POC206	Q8NEP9	0.51617
7039	POC206	Q9BQ52	0.30548
7040	POC206	A6ND36	0.024854
7041	POC206	Q8NAV2	0.17049
7042	POC206	Q96ME7	0.20762
7043	POC206	P0CAP2	0.305
7044	POC206	Q95159	0.7351
7045	POC206	Q9ULM6	1.0473
7046	POC206	Q9C029	0.29992
7047	POC206	Q9UI36	0.48517
7048	POC206	Q8N1F7	0.73489
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7052	POC206	P25398	0.68562
7053	POC206	Q9UQB3	0.66476
7054	POC206	Q9UQC2	0.34024
7055	POC206	O00303	0.31117
7056	POC206	Q494R0	0.45994
7057	POC206	Q9H094	0.016113
7058	POC206	Q8IVS8	0.13105
7059	POC206	O75167	0.29087
7060	POC206	Q9NPA8	0.53241
7061	POC206	Q9Y6Y1	0.70375
7062	POC206	Q96CP2	0.23934
7063	POC206	Q6ZR03	0.34508
7064	POC206	Q9NRD5	0.2319
7065	POC206	P61579	0.80216
7066	POC206	A5PLN7	0.68336
7067	POC206	Q86VP6	0.83507
7068	POC206	O94983	1.4967

7069	POC206	Q68DX3	0.61933
7070	POC206	Q71F23	0.72431
7071	POC206	Q8IYB9	0.42186
7072	POC206	Q96D70	0.89679
7073	POC206	Q5JYT7	0.028656
7074	POC206	Q8N0Z2	0.46229
7075	POC206	Q6ZNA1	0.39234
7076	POC206	Q8TF46	0.29394
7077	POC206	P20073	0.45146
7078	POC206	P08708	0.42942
7079	POC206	Q8N3J5	0.031269
7080	POC206	Q6NT76	0.59309
7081	POC206	O75674	0.51498
7082	POC206	Q14153	0.66895
7083	POC206	Q6NT04	0.36518
7084	POC206	Q14493	0.79895
7085	POC206	O75461	0.43526
7086	POC206	Q96EF6	0.68262
7087	POC206	C9J302	0.31078
7088	POC206	Q1RN00	0.45994
7089	POC206	Q15935	0.59919
7090	POC206	Q15004	0.95404
7091	POC206	Q14DG7	0.60901
7092	POC206	O95876	0.38753
7093	POC206	O43264	0.72197
7094	POC206	Q96B54	0.75951
7095	POC206	P10515	0.4044
7096	POC206	Q7L945	0.36636
7097	POC206	Q96NS8	0.1544
7098	POC206	Q6IQ23	0.4693
7099	POC206	P24864	0.65297
7100	POC206	Q7Z3B3	0.22639
7101	POC206	Q9HCS7	0.50795
7102	POC206	Q9Y5P8	0.72052
7103	POC206	Q5T9G4	1.2902
7104	POC206	Q01105	0.82895
7105	POC206	P09016	0.18582
7106	POC206	Q9UL40	0.75129
7107	POC206	Q01892	0.48285
7108	POC206	P24941	0.70518
7109	POC206	P78412	0.31537
7110	POC206	Q15369	1.4029
7111	POC206	Q15788	0.29258
7112	POC206	Q08AG7	0.87507
7113	POC206	Q08945	1.3558
7114	POC206	Q86YT6	0.24726
7115	POC206	Q15759	0.30449
7116	POC206	Q9NYV6	0.60031
7117	POC206	Q8N3U1	0.45994
7118	POC206	O75820	0.28063
7119	POC206	Q9Y5A7	0.76609
7120	POC206	Q9NZ09	0.13763
7121	POC206	Q8TEA8	0.9133
7122	POC206	Q96SR6	0.33397
7123	POC206	O00189	0.50669
7124	POC206	Q8WWK9	0.4917
7125	POC206	Q8TDD2	0.51466
7126	POC206	Q8TD16	0.46378
7127	POC206	Q9BSJ2	1.3337
7128	POC206	Q14061	0.52057
7129	POC206	Q5T0J7	0.271
7130	POC206	Q96MG8	0.029555
7131	POC206	O43639	0.46023
7132	POC206	Q9UKT5	0.4597
7133	POC206	P62937	0.66381
7134	POC206	O43765	0.70613
7135	POC206	Q1ZZU3	0.85437
7136	POC206	Q8TBK6	0.46758
7137	POC206	Q9HCI5	0.73611
7138	POC206	Q9H1D9	0.64115
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7141	POC206	Q13765	1.2392
7142	POC206	O43745	0.86192
7143	POC206	Q5TBC7	0.29189
7144	POC206	A0AUK8	0.24246

7145	POC206	O95071	0.28494
7146	POC206	P60896	0.45994
7147	POC206	P13929	0.20897
7148	POC206	Q9BUT9	1.2905
7149	POC206	Q9BQ95	1.2188
7150	POC206	Q2M2W7	0.68336
7151	POC206	Q6UUUV7	1.6413
7152	POC206	Q9H4R4	0.10546
7153	POC206	Q9UBF1	0.94092
7154	POC206	P62952	0.33364
7155	POC206	Q9UDW3	0.4984
7156	POC206	Q5T750	0.26479
7157	POC206	P23381	0.31867
7158	POC206	P16455	0.32127
7159	POC206	P02533	0.87109
7160	POC206	O75312	0.43373
7161	POC206	Q7Z2E3	0.65478
7162	POC206	Q5HY64	0.11084
7163	POC206	A8MYR8	0.090088
7164	POC206	Q2M218	0.33397
7165	POC206	Q93074	0.52293
7166	POC206	Q68CZ6	0.80409
7167	POC206	Q6NXP2	1.0591
7168	POC206	Q14249	0.048089
7169	POC206	Q6BDI9	0.60054
7170	POC206	P51668	0.58319
7171	POC206	Q08AI8	0.68336
7172	POC206	Q6ZVN7	0.07209
7173	POC206	P0CG33	0.3004
7174	POC206	Q9Y3T9	1.1777
7175	POC206	Q9ULJ1	0.24144
7176	POC206	P36402	0.56528
7177	POC206	Q5BIV9	0.50729
7178	POC206	Q9H633	0.36817
7179	POC206	Q8N163	0.76934
7180	POC206	P0CJ68	0.67101
7181	POC206	Q15459	0.52585
7182	POC206	Q8NCA5	0.46522
7183	POC206	Q14929	0.32132
7184	POC206	Q8TD17	0.26214
7185	POC206	Q9UH77	0.69196
7186	POC206	P11940	0.28803
7187	POC206	Q9H9C1	0.69673
7188	POC206	A8MTZ0	0.44326
7189	POC206	Q14566	0.28482
7190	POC206	A6NCW3	0.63324
7191	POC206	P18848	1.1867
7192	POC206	Q8N4H5	0.41064
7193	POC206	O15304	1.1667
7194	POC206	P11142	0.36997
7195	POC206	A6NC78	0.33004
7196	POC206	Q6ZTN6	0.47738
7197	POC206	Q8N328	0.074542
7198	POC206	Q12959	0.84297
7199	POC206	Q5QP74	0.45994
7200	POC206	Q8WVM7	0.94388
7201	POC206	Q0VG99	0.32028
7202	POC206	Q9NQ31	0.74141
7203	POC206	Q96DP5	0.57758
7204	POC206	Q5VZF2	0.10158
7205	POC206	Q9NRM2	0.16664
7206	POC206	Q96EK4	1.4778
7207	POC206	Q8N3F8	0.73813
7208	POC206	Q8WVK2	0.64617
7209	POC206	Q99732	0.3779
7210	POC206	P50135	0.20673
7211	POC206	Q9NXZ1	0.32773
7212	POC206	Q96KR7	0.42467
7213	POC206	Q6ZSN1	0.38203
7214	POC206	Q9NTJ3	0.30467
7215	POC206	Q2KHT3	0.65507
7216	POC206	Q6IPW1	0.61883
7217	POC206	Q53FT3	0.46399
7218	POC206	A2VDF0	0.31063
7219	POC206	Q68CZ2	0.46821
7220	POC206	Q6P4R8	1.3299

7221	POC206	Q969E4	0.58122
7222	POC206	Q8IUE0	0.43565
7223	POC206	Q8NG31	0.76262
7224	POC206	Q14C87	0.74524
7225	POC206	Q5T681	0.98451
7226	POC206	Q8N5A5	1.0366
7227	POC206	P61970	0.54135
7228	POC206	Q96RE7	1.1985
7229	POC206	Q9Y615	0.52493
7230	POC206	Q9H2K2	0.49632
7231	POC206	P22735	0.25384
7232	POC206	O60422	0.40162
7233	POC206	Q68D10	0.68336
7234	POC206	Q96EK7	0.44019
7235	POC206	Q8NEY8	0.93484
7236	POC206	Q96ND8	0.54826
7237	POC206	Q86UY8	0.1551
7238	POC206	Q8TAB7	0.89129
7239	POC206	Q8N1G2	0.42617
7240	POC206	Q09MP3	0.35354
7241	POC206	Q9UBD0	1.2797
7242	POC206	Q6ZQX7	0.014649
7243	POC206	Q9Y3A2	0.98495
7244	POC206	Q96GN5	1.0209
7245	POC206	Q9Y3Y2	1.0504
7246	POC206	Q8IWN6	0.30824
7247	POC206	Q7Z401	0.46846
7248	POC206	Q12830	1.1559
7249	POC206	O60516	0.35247
7250	POC206	O00273	0.34005
7251	POC206	Q9BRX2	0.56306
7252	POC206	P06132	0.60704
7253	POC206	Q9UBG7	0.28382
7254	POC206	Q6ZTI6	0.76624
7255	POC206	Q8N945	0.1127
7256	POC206	Q15714	0.88562
7257	POC206	Q96IU2	1.1068
7258	POC206	O43674	0.48065
7259	POC206	Q96LR7	0.98628
7260	POC206	Q8IZM0	0.32852
7261	POC206	Q3LI63	0.45994
7262	POC206	Q8NC51	0.73761
7263	POC206	Q96LW1	0.51209
7264	POC206	Q9Y266	1.1081
7265	POC206	P0CL84	0.26555
7266	POC206	Q9NP85	0.11483
7267	POC206	P41002	1.1478
7268	POC206	Q9NVN3	0.12215
7269	POC206	H3BTG2	0.51403
7270	POC206	Q9HD26	1.0106
7271	POC206	Q9NQS1	0.27723
7272	POC206	P56385	0.29911
7273	POC206	Q92834	0.47378
7274	POC206	Q8IU60	0.91072
7275	POC206	Q86SQ9	0.18473
7276	POC206	Q5T655	0.45994
7277	POC206	O60806	0.54659
7278	POC206	Q6VVB1	0.51083
7279	POC206	Q96IL0	0.34485
7280	POC206	Q6EMB2	0.28999
7281	POC206	Q9H8M7	0.92846
7282	POC206	Q9NYY8	0.24182
7283	POC206	O43763	0.26881
7284	POC206	Q8N7B1	0.71676
7285	POC206	P29372	0.60352
7286	POC206	Q3MIV0	0.45994
7287	POC206	Q9BTD1	0.32681
7288	POC206	P48728	0.21514
7289	POC206	Q9Y4W2	0.92789
7290	POC206	Q7L2E3	0.34196
7291	POC206	O00233	0.4967
7292	POC206	P52292	1.0256
7293	POC206	O15442	0.12895
7294	POC206	Q86T75	0.90881
7295	POC206	A2AJT9	0.48288
7296	POC206	P38432	0.8231

7297	POC206	Q7Z7F7	0.70285
7298	POC206	Q99750	0.52602
7299	POC206	O95571	0.66773
7300	POC206	P47914	1.1539
7301	POC206	Q13136	0.39748
7302	POC206	Q8N5Y2	0.1114
7303	POC206	O75150	0.64265
7304	POC206	Q86Y46	0.31106
7305	POC206	Q8IXQ9	0.3695
7306	POC206	P07476	0.56872
7307	POC206	Q5TB80	1.1356
7308	POC206	Q96CM3	0.61779
7309	POC206	Q9Y618	1.1671
7310	POC206	Q6EKJ0	0.23143
7311	POC206	P11802	0.80246
7312	POC206	O95789	0.78244
7313	POC206	Q9UIL8	0.60244
7314	POC206	P61578	0.62585
7315	POC206	O95714	0.31135
7316	POC206	Q8WY91	0.5773
7317	POC206	P37837	0.74472
7318	POC206	Q9P0R6	0.40115
7319	POC206	Q6ZRI6	0.53109
7320	POC206	Q86TA1	0.47492
7321	POC206	Q5U623	0.9839
7322	POC206	Q13472	0.14748
7323	POC206	Q6P3V2	0.30231
7324	POC206	Q86WW8	0.49654
7325	POC206	P68104	0.78122
7326	POC206	Q9BYI3	0.65476
7327	POC206	P14316	1.0423
7328	POC206	Q8WW33	0.70586
7329	POC206	Q9BYR2	0.72851
7330	POC206	O15235	0.78804
7331	POC206	O60232	1.2019
7332	POC206	Q9Y6X4	1.1498
7333	POC206	Q8WTU0	0.43611
7334	POC206	O95243	0.88402
7335	POC206	Q5T6S3	0.60244
7336	POC206	Q15528	1.3329
7337	POC206	Q5JSQ8	0.23043
7338	POC206	Q9BQC6	0.89389
7339	POC206	P48556	0.38485
7340	POC206	Q9NV39	0.47861
7341	POC206	Q01543	0.50578
7342	POC206	Q9H4E7	0.23604
7343	POC206	O75901	0.52857
7344	POC206	A8MXZ3	0.45994
7345	POC206	Q6P1J9	0.74607
7346	POC206	Q15257	0.51558
7347	POC206	Q5VZ66	0.48699
7348	POC206	Q9NYP3	0.60429
7349	POC206	Q9NUD5	0.3582
7350	POC206	P60602	0.50796
7351	POC206	A6NHQ4	0.58616
7352	POC206	Q9Y250	1.1175
7353	POC206	Q658Y4	0.61384
7354	POC206	Q9HBF4	0.40682
7355	POC206	Q49AR2	0.27105
7356	POC206	P09234	0.62568
7357	POC206	Q2M243	0.059371
7358	POC206	Q2M1V0	0.43565
7359	POC206	Q8TCF1	0.23888
7360	POC206	P10124	0.37373
7361	POC206	P15408	0.66561
7362	POC206	Q92560	0.2453
7363	POC206	Q8N398	0.69901
7364	POC206	Q12906	1.1401
7365	POC206	Q9BVC3	0.70103
7366	POC206	Q9Y6Z2	0.45994
7367	POC206	Q93052	0.62076
7368	POC206	Q9H5X1	0.24261
7369	POC206	Q8NCR3	0.35438
7370	POC206	Q99607	1.207
7371	POC206	P22674	0.53432
7372	POC206	Q8IYL3	0.91681

7373	POC206	P13646	0.44369
7374	POC206	Q4W4Y0	0.13115
7375	POC206	P51116	0.6349
7376	POC206	P11473	0.49894
7377	POC206	Q9Y534	0.34965
7378	POC206	Q6P1M3	1.1225
7379	POC206	O96015	0.064731
7380	POC206	P17480	1.1505
7381	POC206	Q96DN6	0.70974
7382	POC206	Q8NAP3	0.56817
7383	POC206	Q13761	0.88231
7384	POC206	Q8IY81	0.82445
7385	POC206	Q9P1T7	1.3961
7386	POC206	Q9P255	0.40543
7387	POC206	Q8TAW3	0.3367
7388	POC206	P35658	1.0465
7389	POC206	Q9UHD9	0.95922
7390	POC206	O95868	0.67664
7391	POC206	Q9H6S1	0.080271
7392	POC206	Q9UJW9	1.5012
7393	POC206	Q5VWX1	0.74558
7394	POC206	Q7Z699	0.41057
7395	POC206	Q12772	0.27787
7396	POC206	Q5T0F9	0.56148
7397	POC206	Q9H902	0.24572
7398	POC206	Q9H2C0	0.7263
7399	POC206	Q12789	0.9661
7400	POC206	A6NJ08	0.17099
7401	POC206	P23025	0.34795
7402	POC206	Q8N960	0.21305
7403	POC206	Q8IVI9	0.36431
7404	POC206	Q5SY13	0.45994
7405	POC206	Q9H3H9	0.98343
7406	POC206	Q8IVD9	0.5348
7407	POC206	Q9BRX8	0.069612
7408	POC206	O00534	0.34708
7409	POC206	Q5VT03	0.75244
7410	POC206	Q2TAC2	0.022078
7411	POC206	O94921	0.27813
7412	POC206	Q8WYN3	0.67724
7413	POC206	Q9BTV4	0.57443
7414	POC206	Q5TAP6	0.53951
7415	POC206	P47897	0.44582
7416	POC206	Q8N6N6	0.077688
7417	POC206	Q3LHN1	0.45994
7418	POC206	P14868	0.69221
7419	POC206	Q14511	0.87212
7420	POC206	Q9UII2	0.66075
7421	POC206	P62847	0.65946
7422	POC206	Q9Y6H5	0.88285
7423	POC206	Q8IW40	0.18647
7424	POC206	Q9C073	0.99714
7425	POC206	Q8N8X9	0.42521
7426	POC206	Q6ZTU2	0.65823
7427	POC206	Q86Y13	0.41345
7428	POC206	P00480	0.26043
7429	POC206	A6NDY2	0.51817
7430	POC206	Q6L8H4	0.45994
7431	POC206	Q9UIF7	0.53677
7432	POC206	Q9NS73	0.87657
7433	POC206	P47974	0.39938
7434	POC206	Q8TC56	1.2191
7435	POC206	Q9NZB2	0.72508
7436	POC206	Q96RJ6	0.50307
7437	POC206	Q96FQ6	0.41303
7438	POC206	O95166	0.35824
7439	POC206	Q9Y2A4	0.53032
7440	POC206	P52630	0.76461
7441	POC206	Q9H267	0.38606
7442	POC206	Q9Y2G5	0.31847
7443	POC206	Q5T200	0.82629
7444	POC206	A8MU10	0.45994
7445	POC206	P78371	0.65283
7446	POC206	Q9Y262	0.90247
7447	POC206	O14978	0.61557
7448	POC206	Q9H8G1	0.5656

7449	POC206	P13667	0.32609
7450	POC206	Q66K41	0.82861
7451	POC206	Q9HBL8	0.059505
7452	POC206	Q14159	1.423
7453	POC206	Q6TAR4	0.28101
7454	POC206	Q9NQP4	0.98427
7455	POC206	A8MWA4	0.57688
7456	POC206	Q7Z5L9	1.0357
7457	POC206	Q9C0I3	0.99028
7458	POC206	Q16401	0.76743
7459	POC206	Q9H7Y2	0.2572
7460	POC206	Q9BRX5	0.069799
7461	POC206	P30740	0.35971
7462	POC206	Q9NNX9	0.97625
7463	POC206	Q86WC4	0.99821
7464	POC206	Q9NP50	0.61271
7465	POC206	Q9H0A0	0.44277
7466	POC206	P35900	0.91573
7467	POC206	Q86X02	0.36531
7468	POC206	O14990	0.47346
7469	POC206	Q8TCZ7	0.5171
7470	POC206	Q6ZN08	0.52324
7471	POC206	Q8IW50	0.68336
7472	POC206	O00471	0.38442
7473	POC206	P0CG42	0.45994
7474	POC206	Q9BZD3	0.33259
7475	POC206	P31943	0.31368
7476	POC206	Q12800	0.4373
7477	POC206	Q9Y3C5	0.66822
7478	POC206	Q12834	0.89264
7479	POC206	Q8IWJ2	0.81715
7480	POC206	Q9BV97	0.34344
7481	POC206	Q5HYK3	0.40033
7482	POC206	Q7Z6I8	0.062544
7483	POC206	Q9BX63	0.34776
7484	POC206	P61254	0.96471
7485	POC206	Q8WVK7	0.80425
7486	POC206	Q6Q0C0	0.38855
7487	POC206	P0CJ70	0.67101
7488	POC206	Q8IVP9	0.31636
7489	POC206	Q13367	0.65647
7490	POC206	P08235	0.51164
7491	POC206	Q69YI7	1.2573
7492	POC206	P13985	0.45994
7493	POC206	Q9H0E9	0.37849
7494	POC206	Q9P2W9	0.37298
7495	POC206	P0CJ78	0.23862
7496	POC206	Q5TAG4	0.034477
7497	POC206	Q9H7J1	0.59416
7498	POC206	Q8NDH2	0.063596
7499	POC206	Q9H3L0	0.74782
7500	POC206	Q43316	0.30202
7501	POC206	Q5VTL8	0.79556
7502	POC206	Q8NG50	0.15857
7503	POC206	Q6ZU35	0.68336
7504	POC206	P56556	0.37777
7505	POC206	A6NHP3	0.51209
7506	POC206	Q6NUN7	0.45994
7507	POC206	Q96LZ2	0.025788
7508	POC206	Q9NTK1	0.79765
7509	POC206	P31689	0.57168
7510	POC206	Q4W5G0	0.59254
7511	POC206	Q9BZL4	0.66879
7512	POC206	Q969T7	0.08705
7513	POC206	Q6I9Y2	0.78098
7514	POC206	O95171	0.36572
7515	POC206	Q05084	0.47159
7516	POC206	Q9Y6E7	0.53604
7517	POC206	A8MUV8	0.52256
7518	POC206	Q8IWT0	0.083489
7519	POC206	Q02221	0.20811
7520	POC206	Q6ZS92	0.19782
7521	POC206	Q9BYT5	0.17342
7522	POC206	Q5MJ70	0.51209
7523	POC206	Q8IXM7	0.25551
7524	POC206	Q99456	0.48752



7525	POC206	Q96S06	0.7423
7526	POC206	Q96C03	0.47435
7527	POC206	O95677	0.27849
7528	POC206	Q8WWM9	0.24398
7529	POC206	Q5VT52	0.30778
7530	POC206	Q9H467	1.188
7531	POC206	P51504	0.35271
7532	POC206	Q99856	0.7858
7533	POC206	Q96DV4	0.36958
7534	POC206	Q9Y2J2	0.52127
7535	POC206	A8MU76	0.92281
7536	POC206	Q9UI95	1.4135
7537	POC206	Q9BYG4	0.8455
7538	POC206	Q6P5X5	0.88253
7539	POC206	Q9BQJ4	0.7933
7540	POC206	Q9BSH3	0.2779
7541	POC206	A6NF83	0.78844
7542	POC206	Q9UI25	0.45994
7543	POC206	Q8NHY5	1.0382
7544	POC206	Q969U6	0.25122
7545	POC206	P52434	0.45663
7546	POC206	P58304	0.36091
7547	POC206	Q9BQ70	1.5118
7548	POC206	P35638	0.81954
7549	POC206	Q6IPR3	0.26169
7550	POC206	Q9H0B3	0.26921
7551	POC206	Q08AE8	0.16393
7552	POC206	Q9NP62	0.2104
7553	POC206	P50570	0.35824
7554	POC206	Q99496	0.61277
7555	POC206	P82912	0.57307
7556	POC206	O94805	0.78976
7557	POC206	Q5MJ08	0.061293
7558	POC206	Q3B7T1	0.66571
7559	POC206	Q8N6U2	0.43651
7560	POC206	Q96RL7	0.92397
7561	POC206	Q6NZ67	0.91007
7562	POC206	P17706	0.26003
7563	POC206	Q96C34	0.9469
7564	POC206	Q86XD5	0.25204
7565	POC206	Q15276	0.26935
7566	POC206	Q8IWF7	0.30996
7567	POC206	O76042	0.66938
7568	POC206	Q9NXX6	0.57448
7569	POC206	Q8N108	1.3095
7570	POC206	Q9UKY7	0.92901
7571	POC206	Q3KP31	0.50104
7572	POC206	Q8WWR9	0.35176
7573	POC206	O15116	0.74536
7574	POC206	Q8NBV4	0.55902
7575	POC206	P18887	0.79679
7576	POC206	Q8TAG9	0.1418
7577	POC206	P21399	0.3935
7578	POC206	P60369	0.72851
7579	POC206	O60224	0.26627
7580	POC206	Q5VTQ0	0.29677
7581	POC206	P29966	1.208
7582	POC206	Q6ZMS7	0.38136
7583	POC206	Q8IV32	0.57656
7584	POC206	Q99640	0.2503
7585	POC206	Q86WX3	1.2765
7586	POC206	Q6ZVC0	0.84349
7587	POC206	Q0P670	1.1394
7588	POC206	Q96EG3	0.25958
7589	POC206	Q9BTA0	0.68336
7590	POC206	Q5T0Z8	0.68336
7591	POC206	Q8N0W5	0.29506
7592	POC206	P0CW00	0.32628
7593	POC206	Q15561	0.94707
7594	POC206	Q8IUG1	0.50253
7595	POC206	Q5SVQ8	0.38197
7596	POC206	Q9ULH7	0.99853
7597	POC206	P17098	0.51603
7598	POC206	Q9BVC4	0.49528
7599	POC206	P82094	1.5566
7600	POC206	Q6ZRV3	0.45994

7601	POC206	O15372	0.7122
7602	POC206	Q9BW27	0.86754
7603	POC206	O15160	0.20779
7604	POC206	Q14207	0.99891
7605	POC206	Q2KJ03	0.26385
7606	POC206	Q9BRT3	0.24806
7607	POC206	Q96PU4	0.50382
7608	POC206	Q7L592	0.4683
7609	POC206	Q9BW30	0.33786
7610	POC206	Q8N3C0	0.48318
7611	POC206	Q92698	0.43634
7612	POC206	Q8NHZ8	1.3037
7613	POC206	Q9H7U1	1.1003
7614	POC206	Q9GZU3	1.2197
7615	POC206	Q69383	0.80216
7616	POC206	Q6ZN01	0.67833
7617	POC206	Q8IX03	1.2133
7618	POC206	Q8TAX7	0.45994
7619	POC206	Q9BSD3	0.37515
7620	POC206	Q969L2	0.31372
7621	POC206	P18669	0.80366
7622	POC206	A8MT69	0.6828
7623	POC206	Q75323	0.63277
7624	POC206	Q9NWW4	0.66994
7625	POC206	Q96EY5	0.61417
7626	POC206	O75182	1.2483
7627	POC206	P59052	0.41658
7628	POC206	P33992	0.34217
7629	POC206	Q9UJW7	0.29385
7630	POC206	Q8NCU4	0.43511
7631	POC206	Q96GW9	0.4341
7632	POC206	A6NJ78	0.77807
7633	POC206	Q5VWP3	0.9287
7634	POC206	O00522	0.29423
7635	POC206	P31260	0.37103
7636	POC206	Q9P1A6	0.26639
7637	POC206	Q8N402	0.12863
7638	POC206	Q5T5A4	0.39017
7639	POC206	Q03188	0.59556
7640	POC206	Q9UJC5	0.53308
7641	POC206	Q9BWX1	0.59369
7642	POC206	P0CI00	0.67195
7643	POC206	P55957	0.49642
7644	POC206	Q5T0B9	0.20949
7645	POC206	O60688	0.22952
7646	POC206	Q9H1A7	0.15285
7647	POC206	Q9UKS6	0.3345
7648	POC206	Q5BKY9	0.68336
7649	POC206	Q16600	0.32332
7650	POC206	O95396	0.08442
7651	POC206	P17041	0.27985
7652	POC206	Q12904	0.1442
7653	POC206	P14618	0.2093
7654	POC206	P0C7V0	0.45994
7655	POC206	P62136	0.72208
7656	POC206	Q2NL98	0.89064
7657	POC206	Q9H2J4	0.74719
7658	POC206	Q9HCK0	0.23725
7659	POC206	Q969G9	0.22043
7660	POC206	Q5T6M2	0.8434
7661	POC206	Q8WW24	0.39786
7662	POC206	Q9H095	0.35529
7663	POC206	Q5JWR5	0.3562
7664	POC206	Q8N201	0.4179
7665	POC206	P0CG20	0.23867
7666	POC206	Q9UJW3	0.74836
7667	POC206	Q96NG5	0.51573
7668	POC206	Q9UNL4	0.57235
7669	POC206	Q92585	1.0677
7670	POC206	Q9UKA4	0.14678
7671	POC206	Q495Y7	0.073896
7672	POC206	Q9UGY1	0.34343
7673	POC206	Q8N8G2	1.0443
7674	POC206	O94763	0.84483
7675	POC206	Q9BVL2	0.7726
7676	POC206	Q96CW6	0.84275

7677	POC206	Q10571	0.26385
7678	POC206	Q9P2G4	0.68336
7679	POC206	Q9NVV9	1.3175
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7681	POC206	O75822	0.74204
7682	POC206	O75425	0.75722
7683	POC206	P35908	0.4069
7684	POC206	Q9Y2S7	0.83144
7685	POC206	Q96JM2	0.42182
7686	POC206	Q6H8Q1	0.55944
7687	POC206	Q3ZLR7	0.7778
7688	POC206	Q92748	1.207
7689	POC206	O15014	1.0886
7690	POC206	Q15428	0.43152
7691	POC206	Q5TBE3	0.37602
7692	POC206	Q93050	0.26309
7693	POC206	Q8IZD2	0.44689
7694	POC206	Q05DH4	1.0937
7695	POC206	Q9Y5S9	0.60335
7696	POC206	Q9NZQ3	0.80319
7697	POC206	Q86V81	0.63704
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7702	POC206	Q12873	0.87824
7703	POC206	Q99986	0.25538
7704	POC206	O60290	0.56193
7705	POC206	Q9NSK7	0.97842
7706	POC206	Q9UKV3	0.64597
7707	POC206	P10827	0.34346
7708	POC206	Q6GMV2	0.3918
7709	POC206	Q86X76	0.17173
7710	POC206	P61604	0.84296
7711	POC206	O00566	0.6578
7712	POC206	Q14695	0.51287
7713	POC206	Q2TAP0	0.29426
7714	POC206	Q9UI26	0.56175
7715	POC206	Q9HBZ2	0.40155
7716	POC206	Q7Z7A3	0.63681
7717	POC206	Q9P2W6	0.45994
7718	POC206	Q8IXY8	0.24731
7719	POC206	Q96T21	0.5514
7720	POC206	B3EWG4	0.68336
7721	POC206	Q53FD0	0.87774
7722	POC206	Q902F8	0.8421
7723	POC206	Q8N2N9	0.55812
7724	POC206	Q9NTM9	0.4297
7725	POC206	Q96GY3	0.61356
7726	POC206	Q5JS54	0.61395
7727	POC206	O14746	0.66943
7728	POC206	Q5JSZ5	0.84433
7729	POC206	P0CV99	0.32628
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7731	POC206	Q96NG8	0.35005
7732	POC206	Q6PRD7	0.45994
7733	POC206	Q14684	0.46932
7734	POC206	Q3BBV1	1.4923
7735	POC206	Q96LM1	0.81214
7736	POC206	Q9H7Z6	0.27502
7737	POC206	Q9UIG0	0.26285
7738	POC206	Q9HB09	1.2521
7739	POC206	Q9NWZ8	0.88007
7740	POC206	Q9Y238	0.12607
7741	POC206	P21675	0.46893
7742	POC206	Q53TQ3	0.79253
7743	POC206	O76095	0.43598
7744	POC206	Q96BD5	0.76061
7745	POC206	P14859	1.2679
7746	POC206	O43505	0.6143
7747	POC206	A6NDK9	0.1912
7748	POC206	Q9UNS2	0.79038
7749	POC206	P56177	0.24586
7750	POC206	A6NGS2	0.457
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7752	POC206	O00231	0.35283

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7754	POC206	P47944	0.41429
7755	POC206	P51946	0.66998
7756	POC206	Q8IUE1	0.43565
7757	POC206	Q86UB9	0.87834
7758	POC206	P15259	0.75109
7759	POC206	P35813	0.34172
7760	POC206	Q9H079	0.49239
7761	POC206	Q9BYQ8	0.72851
7762	POC206	Q9GZP8	0.45994
7763	POC206	Q6ZQY7	0.50777
7764	POC206	Q96AH0	0.46009
7765	POC206	Q6P3S1	0.10641
7766	POC206	Q8WVP5	1.0327
7767	POC206	Q14764	1.1836
7768	POC206	Q10586	0.48038
7769	POC206	P80297	0.47297
7770	POC206	Q5VUE5	0.50608
7771	POC206	Q7RTT4	0.26627
7772	POC206	P0DI81	1.2158
7773	POC206	Q0VF49	0.45994
7774	POC206	O75190	0.78545
7775	POC206	O60264	0.30944
7776	POC206	Q9ULX9	0.52864
7777	POC206	Q9NRT5	0.22803
7778	POC206	O00186	0.82949
7779	POC206	P61923	0.5279
7780	POC206	P63272	1.129
7781	POC206	Q68CJ9	0.86862
7782	POC206	Q04695	0.47527
7783	POC206	Q5T749	0.81382
7784	POC206	O43790	0.45381
7785	POC206	P42677	0.93671
7786	POC206	Q9NXR7	0.54862
7787	POC206	A1L3X0	0.65817
7788	POC206	Q5JTC6	1.0895
7789	POC206	Q70IA6	0.59819
7790	POC206	O15488	0.13013
7791	POC206	Q14978	0.7238
7792	POC206	Q9Y312	0.35423
7793	POC206	P62829	1.1285
7794	POC206	P55822	0.58892
7795	POC206	O15037	0.61118
7796	POC206	A8MSY0	0.34893
7797	POC206	P40337	0.91049
7798	POC206	Q13794	0.50698
7799	POC206	Q96LZ7	0.1497
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7802	POC206	P60370	0.72851
7803	POC206	Q5M9Q1	0.93939
7804	POC206	Q96I59	0.55501
7805	POC206	Q15583	0.35857
7806	POC206	Q9Y284	0.81956
7807	POC206	Q9H4H8	0.63847
7808	POC206	P31350	0.37143
7809	POC206	Q9NP77	0.34893
7810	POC206	Q9BUE6	0.037409
7811	POC206	Q92764	0.34578
7812	POC206	Q9UKY1	0.55035
7813	POC206	P12270	0.75114
7814	POC206	Q9UL18	0.97721
7815	POC206	P08697	0.37832
7816	POC206	P17036	0.50233
7817	POC206	Q9NRA8	1.2317
7818	POC206	Q9NRN7	0.55779
7819	POC206	Q5VT40	0.3416
7820	POC206	Q96GE4	0.33507
7821	POC206	Q96NU7	0.25655
7822	POC206	Q68CP9	0.76285
7823	POC206	Q9UBY9	1.0946
7824	POC206	Q9BTC8	0.92295
7825	POC206	Q969L4	0.6061
7826	POC206	O95503	1.082
7827	POC206	Q5JSS6	0.23298
7828	POC206	P51948	0.57323

7829	POC206	Q6P2I7	0.060383
7830	POC206	Q86V97	0.50382
7831	POC206	Q9BRP8	0.92348
7832	POC206	Q9NUS5	0.70921
7833	POC206	P23508	0.52186
7834	POC206	P61236	0.3795
7835	POC206	Q8TBZ5	0.34774
7836	POC206	P48443	0.29027
7837	POC206	B7ZAQ6	0.61911
7838	POC206	Q8N1W2	0.22413
7839	POC206	Q01954	0.34359
7840	POC206	Q13506	0.55295
7841	POC206	Q9Y2H8	0.33886
7842	POC206	Q6IPR1	0.48502
7843	POC206	Q9Y2I6	0.32768
7844	POC206	Q05932	0.26108
7845	POC206	Q9H063	0.43492
7846	POC206	Q8N3J3	0.32175
7847	POC206	P31276	0.6341
7848	POC206	Q1W6H9	1.3813
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7850	POC206	P63146	0.81893
7851	POC206	Q9Y2K1	0.20949
7852	POC206	P78543	0.76838
7853	POC206	P52815	0.56666
7854	POC206	Q6ZTC4	0.45994
7855	POC206	A6NCS6	0.55499
7856	POC206	P24385	0.64753
7857	POC206	Q96G01	0.23953
7858	POC206	Q8WTW4	0.47303
7859	POC206	Q8IWT3	0.29825
7860	POC206	Q76KD6	0.55246
7861	POC206	Q08AM6	0.26509
7862	POC206	Q13360	0.33149
7863	POC206	Q00425	0.40557
7864	POC206	O95229	0.94428
7865	POC206	Q9BSF0	0.46311
7866	POC206	P54253	1.0008
7867	POC206	P19474	0.47762
7868	POC206	Q6ZP98	0.39347
7869	POC206	Q9BYD3	0.82048
7870	POC206	Q08E93	0.45994
7871	POC206	B1AH88	0.45994
7872	POC206	Q9NYK6	0.45025
7873	POC206	Q12894	0.5051
7874	POC206	Q86UY5	0.22114
7875	POC206	Q6ZVN6	0.051699
7876	POC206	Q8NDT2	0.73828
7877	POC206	Q8NFU3	0.23177
7878	POC206	A2RUB1	0.68336
7879	POC206	Q9NWD9	0.4639
7880	POC206	P29401	0.068023
7881	POC206	Q9BY60	0.13637
7882	POC206	Q15046	0.75705
7883	POC206	Q8WXC3	0.74589
7884	POC206	Q8WW18	0.68336
7885	POC206	Q9BU70	0.11493
7886	POC206	Q8IUC2	0.90014
7887	POC206	Q96BW9	0.55759
7888	POC206	Q9H8X3	0.049727
7889	POC206	O15060	0.20949
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7892	POC206	Q5H9M0	1.0384
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7894	POC206	Q10570	0.72808
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7903	POC206	Q00534	0.63317
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7907	POC206	Q14653	0.65527
7908	POC206	Q9BRL7	0.67751
7909	POC206	Q2M3W8	0.5435
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7912	POC206	Q86YE8	0.40539
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7914	POC206	Q70EK8	0.64437
7915	POC206	P62424	0.99094
7916	POC206	Q9BW60	0.65817
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7919	POC206	Q8NEL9	0.06738
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7921	POC206	Q6ZQN3	0.80621
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7923	POC206	Q96GU1	0.37431
7924	POC206	Q8WTQ4	0.061851
7925	POC206	P09914	0.37344
7926	POC206	Q9BVN2	0.74957
7927	POC206	Q3L8U1	1.0631
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7929	POC206	Q59GN2	0.32831
7930	POC206	Q8TDR0	0.97778
7931	POC206	P0CG43	0.45994
7932	POC206	P16083	0.13671
7933	POC206	Q9Y2Y4	0.50756
7934	POC206	Q9H7R5	0.41874
7935	POC206	Q9BPW8	0.64303
7936	POC206	P12004	0.28779
7937	POC206	Q92905	0.79732
7938	POC206	Q8TDB4	0.35332
7939	POC206	P30281	0.92974
7940	POC206	P06400	0.70731
7941	POC206	Q9H9D4	0.79316
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7944	POC206	O43303	0.99069
7945	POC206	Q8IXF0	0.45145
7946	POC206	Q7L590	1.2039
7947	POC206	Q9NX08	0.44439
7948	POC206	Q6ZN19	0.27283
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7950	POC206	Q8NDY6	0.62032
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7955	POC206	Q6DKI1	0.058094
7956	POC206	Q5T6C5	0.82891
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7963	POC206	Q9H8W3	0.5232
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7976	POC206	Q96LX7	0.094487
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7985	POC206	Q8N9A8	0.72891
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7988	POC206	P30876	0.73679
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8007	POC206	Q9H0C8	0.57354
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8013	POC206	P56270	0.69951
8014	POC206	P57678	0.94104
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8016	P03363	Q8N6F7	0.39965
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8022	P03363	P80294	0.5938
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8036	P03363	Q9Y316	0.26634
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8041	P03363	Q16236	0.52964
8042	P03363	Q9BSD3	0.35801
8043	P03363	Q9NQX1	0.50212
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8048	P03363	Q6NXP2	0.043997
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8053	P03363	Q6PRD7	0.24431
8054	P03363	Q5TGS1	0.4337
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8066	P03363	Q32P41	0.37586
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8075	P03363	Q5JUW0	0.24352
8076	P03363	Q9Y6Y0	0.57582
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9004	P03363	Q96SE7	0.22259
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9406	P03363	O76003	0.34877
9407	P03363	Q8IWA0	0.29721
9408	P03363	Q6ZRH4	0.21212
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9411	P03363	Q9NWZ8	0.8766
9412	P03363	P09913	0.45875
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9422	P03363	Q9BYD3	0.33395
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9424	P03363	O75533	0.47189

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9428	P03363	P19387	0.42829
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9430	P03363	Q2LD37	0.32448
9431	P03363	Q6ZRS2	0.31456
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9434	P03363	Q9NQ87	0.40245
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9437	P03363	Q13439	0.63397
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9447	P03363	Q9NX65	0.22259
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9455	P03363	P23490	0.81536
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12225	P03363	Q9H583	0.81031
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12528	P03363	Q8N954	0.18106
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12981	P03363	Q8WTZ3	0.3286
12982	P03363	P16452	0.32473
12983	P03363	Q9Y2X8	0.2284
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12986	P03363	P82909	0.32206
12987	P03363	Q9UMQ3	0.72461
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12996	P03363	Q8N8E3	0.38184



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12999	P03363	Q5TEC3	0.23615
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13015	P03363	Q9HB07	0.25151
13016	P03363	Q9UI46	0.2645
13017	P03363	Q9H8S9	0.45
13018	P03363	Q5HYK7	0.79351
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13020	P03363	Q96PT3	0.52563
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13022	P03363	Q6P2P2	0.23591
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13076	P03363	Q9H2C0	0.80731
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13427	P03363	Q6R2W3	0.55123
13428	P03363	K7EIQ3	0.070921
13429	P03363	Q9BZE7	0.11203
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13434	P03363	Q06520	0.27446
13435	P03363	Q8TBN0	0.4622
13436	P03363	O43598	0.26315
13437	P03363	Q9UPW6	0.65322
13438	P03363	O00257	0.84381
13439	P03363	Q9P2Q2	0.26982
13440	P03363	Q66K64	0.10575
13441	P03363	Q5T890	0.33561
13442	P03363	Q15047	0.49371
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13444	P03363	Q15154	0.4928
13445	P03363	Q12857	0.38777
13446	P03363	Q96NI8	0.22259
13447	P03363	Q5TB80	0.57001
13448	P03363	Q96NB3	0.34423
13449	P03363	Q8TF32	0.22259
13450	P03363	Q6NSI3	0.22504
13451	P03363	Q9BXX3	0.49858
13452	P03363	Q15181	0.20621

13453	P03363	Q6ZMS7	0.42681
13454	P03363	Q9BYH8	0.34409
13455	P03363	Q9Y2T7	0.47616
13456	P03363	Q9P0T4	0.22259
13457	P03363	Q9UBD0	1.1447
13458	P03363	Q8N7H5	0.64243
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13478	P03363	Q9H3H9	0.40525
13479	P03363	Q969S2	0.24863
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13481	P03363	Q9P2M7	0.51141
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13496	P03363	Q5T160	0.064482
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13508	P03363	Q6IQ23	0.42436
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13525	P03363	Q8TD31	0.19742
13526	P03363	Q8NCY6	0.22504
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13529	P03363	Q96FJ2	0.51708
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13538	P03363	Q70EL1	0.51026
13539	P03363	Q8NCF5	0.60774
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13547	P03363	Q8IZU3	0.30733
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13551	P03363	Q86XL3	0.25136
13552	P03363	Q5JSJ4	0.10096
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13554	P03363	Q96LS8	0.006384
13555	P03363	Q2M2I5	1.0007
13556	P03363	Q8NEM1	0.27378
13557	P03363	Q5HYR2	0.22927
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13559	P03363	Q9H0E9	0.21474
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13570	P03363	Q3KNW1	0.23148
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13874	P03363	O43719	0.32426
13875	P03363	Q8N3C0	0.47575
13876	P03363	Q96KN7	0.27379
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13879	P03363	Q13424	0.40247
13880	P03363	Q13542	0.40792
13881	P03363	Q13166	0.11203
13882	P03363	Q6PJT7	0.83465
13883	P03363	Q96QF0	0.65358
13884	P03363	O15160	0.18179
13885	P03363	Q9UHD9	0.78869
13886	P03363	Q9H0H3	0.24431
13887	P03363	P52747	0.6445
13888	P03363	Q9NP77	0.43424
13889	P03363	Q9Y221	0.73071
13890	P03363	P56181	0.13823
13891	P03363	O75928	0.45276
13892	P03363	O60508	0.49788
13893	P03363	P68036	0.57691
13894	P03363	Q6PD62	0.54878
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13902	P03363	P60371	0.2934
13903	P03363	P23511	0.96171
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13913	P03363	Q6UVJ0	0.79883
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13916	P03363	Q96MW7	0.40039
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13923	P03363	O75665	0.58954
13924	P03363	Q8N7J2	0.12705
13925	P03363	Q8N0Y2	0.268
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13932	P03363	Q96CW5	0.76847
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13934	P03363	Q69YQ0	0.39803
13935	P03363	Q9P016	0.22504
13936	P03363	Q9UBB5	0.89944
13937	P03363	Q02577	0.63356
13938	P03363	Q96G03	0.10754
13939	P03363	Q96BD6	0.27846
13940	P03363	Q92754	0.44511
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13951	P03363	Q96SN8	0.39128
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13955	P03363	Q9C0H9	0.20957
13956	P03363	Q8IVT2	0.030013
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13959	P03363	Q99613	0.68795
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13961	P03363	Q9BSC4	0.29721
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13966	P03363	Q9H1J1	0.53477
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13981	P03363	Q8TA94	0.22259
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13993	P03363	Q9H2A3	0.29962
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13995	P03363	Q8IXT1	0.32208
13996	P03363	O00534	0.29721
13997	P03363	Q8N137	0.77238
13998	P03363	Q9Y314	0.80886
13999	P03363	P49640	0.5343
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14004	P03363	Q9NX95	0.41379
14005	P03363	Q12816	0.48215
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14013	P03363	Q6QHK4	0.29768
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14016	P03363	Q96Q35	0.27491
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14018	P03363	P53990	0.54448
14019	P03363	Q8N3Y1	0.45445
14020	P03363	Q9BYQ5	0.2934
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14022	P03363	O00482	0.26447
14023	P03363	Q8TDQ7	0.22167
14024	P03363	A5D8V6	0.20881
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14026	P03363	P52756	0.39924
14027	P03363	Q9BRP4	0.5264
14028	P03363	Q9Y281	0.73075
14029	P03363	Q9BXY8	0.40665
14030	P03363	Q9UJC3	0.40039
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14035	P03363	Q96JB2	0.60271
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14044	P03410	Q8N9H9	1.6653
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14053	P03410	Q86UW9	0.72009
14054	P03410	Q96MF0	0.35216
14055	P03410	Q9HAW0	0.52152
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14057	P03410	Q8WVR3	1.4883
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14059	P03410	Q92830	0.77857
14060	P03410	Q8N4H5	1.2194

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14068	P03410	O15511	0.55592
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14077	P03410	Q99567	0.90084
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14082	P03410	Q96LI6	0.39336
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14084	P03410	A1L3X0	0.86335
14085	P03410	Q00610	1.0178
14086	P03410	Q9UJT2	1.6197
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14088	P03410	Q9Y305	1.2495
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14090	P03410	P0C875	0.11805
14091	P03410	Q9BVN2	0.83898
14092	P03410	Q6PD74	0.85503
14093	P03410	Q9H3H9	1.2936
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14157	P03410	Q96M11	1.85
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14218	P03410	Q8NAS9	0.35226
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14298	P03410	Q9NW81	0.14012
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14317	P03410	Q9UI36	0.21677
14318	P03410	Q6ECI4	0.78354
14319	P03410	P49069	0.47007
14320	P03410	P13646	0.93405
14321	P03410	Q9UI56	1.6653
14322	P03410	Q9BT56	1.207
14323	P03410	Q9H9Q2	0.36002
14324	P03410	Q7L4I2	2.2377
14325	P03410	Q8IU60	0.90743
14326	P03410	Q15714	0.67657
14327	P03410	Q9BSU3	0.53903
14328	P03410	Q9UPP1	0.33887
14329	P03410	Q6UXR6	1.6653
14330	P03410	Q4G0N0	0.88221
14331	P03410	P28070	0.81054
14332	P03410	Q8NEL0	0.23565
14333	P03410	Q9NVT9	0.21689
14334	P03410	O95563	0.75265
14335	P03410	P49959	0.23937
14336	P03410	Q8IYU4	0.14628
14337	P03410	O00203	0.1318
14338	P03410	Q96DS6	1.0913
14339	P03410	A6NJI1	0.89572
14340	P03410	Q96RE9	0.75746
14341	P03410	Q86SE8	0.10611
14342	P03410	Q96BF6	0.55259
14343	P03410	Q8TF63	1.8261
14344	P03410	P23409	0.013282
14345	P03410	Q9H496	0.71684
14346	P03410	Q5T0J3	0.4002
14347	P03410	Q9Y573	0.20429
14348	P03410	P63302	1.1452
14349	P03410	Q96QH2	0.47127
14350	P03410	O95619	0.70105
14351	P03410	Q5JSH3	0.37798
14352	P03410	Q6V9R5	0.97066
14353	P03410	Q9BW27	0.98828
14354	P03410	Q96EK5	0.37361
14355	P03410	P04141	0.30449
14356	P03410	Q9BWJ2	0.67641
14357	P03410	Q5T5S1	0.85193
14358	P03410	Q96KX2	0.064758
14359	P03410	Q5JVG2	0.61459
14360	P03410	Q8N3U1	1.6653
14361	P03410	Q6B0K9	0.83359
14362	P03410	Q8WUZ0	1.4765
14363	P03410	Q71RC2	0.71331
14364	P03410	Q9H6W3	0.68013

14365	P03410	Q9H469	0.28881
14366	P03410	Q96Q11	0.6019
14367	P03410	Q7L775	0.70678
14368	P03410	O96018	0.75993
14369	P03410	Q96NL8	1.8247
14370	P03410	P11831	0.86184
14371	P03410	O60281	0.27871
14372	P03410	Q7L804	0.83848
14373	P03410	B1AJZ1	0.094763
14374	P03410	P53602	0.73646
14375	P03410	H0Y7S4	0.34826
14376	P03410	Q30KR1	0.87928
14377	P03410	Q5H9J7	1.3365
14378	P03410	Q9UNX4	0.4605
14379	P03410	Q8NBF1	0.32566
14380	P03410	O43439	0.90799
14381	P03410	Q9UBK5	1.6741
14382	P03410	Q9NWX4	0.90965
14383	P03410	Q9Y2L1	0.44742
14384	P03410	Q9NS37	0.81015
14385	P03410	O75781	0.31951
14386	P03410	Q5U5X8	1.6186
14387	P03410	Q8N5L8	1.4457
14388	P03410	O15063	1.2124
14389	P03410	P49354	0.42777
14390	P03410	Q14588	0.79465
14391	P03410	Q9H6X4	1.0913
14392	P03410	Q8NA54	0.31002
14393	P03410	Q96PV4	0.065808
14394	P03410	Q2M2E5	1.2126
14395	P03410	Q8WXF8	1.8238
14396	P03410	Q9P2N6	0.78572
14397	P03410	P78537	1.6519
14398	P03410	P0C7M6	0.16458
14399	P03410	Q717R9	1.2427
14400	P03410	Q96HJ5	0.41595
14401	P03410	Q96FX2	1.1194
14402	P03410	Q9Y5L4	0.11097
14403	P03410	Q6ZT52	0.00041981
14404	P03410	P40692	0.23205
14405	P03410	B3EWG4	1.4883
14406	P03410	Q96HD9	0.42649
14407	P03410	Q6NZI2	1.1945
14408	P03410	A6NI86	1.2571
14409	P03410	Q96BR6	0.91714
14410	P03410	Q9Y2S7	1.3757
14411	P03410	Q14159	2.0264
14412	P03410	Q9H981	1.0849
14413	P03410	Q5EBM4	0.36
14414	P03410	Q9HB07	0.47998
14415	P03410	P22087	0.74114
14416	P03410	O75290	0.92179
14417	P03410	A6NDU8	0.70433
14418	P03410	Q8IZS6	0.40593
14419	P03410	Q5VT52	0.49167
14420	P03410	O95782	0.74682
14421	P03410	Q8N4H0	0.17123
14422	P03410	B2RXF5	0.42339
14423	P03410	Q9Y399	1.8787
14424	P03410	B7ZBB8	0.28228
14425	P03410	Q7Z7F7	0.97539
14426	P03410	Q9ULE6	0.92813
14427	P03410	P60371	1.9984
14428	P03410	A4D1U4	0.58542
14429	P03410	O95045	0.59666
14430	P03410	Q9BYN7	0.55314
14431	P03410	A1L4L8	0.83255
14432	P03410	P0CJ87	0.27528
14433	P03410	O71037	0.76316
14434	P03410	P30047	0.77385
14435	P03410	Q9BYZ2	0.69158
14436	P03410	Q17RF5	1.5113
14437	P03410	Q92945	0.62477
14438	P03410	Q9GZP8	1.6653
14439	P03410	Q9BZA5	1.287
14440	P03410	Q96EF9	0.9228

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14442	P03410	Q53HR8	0.2247
14443	P03410	Q17R31	0.42815
14444	P03410	Q15274	0.41189
14445	P03410	Q96AV8	0.29157
14446	P03410	Q02543	1.009
14447	P03410	Q8IV32	1.4051
14448	P03410	Q674R7	0.95477
14449	P03410	Q6ZRH9	1.6653
14450	P03410	Q9Y512	0.30999
14451	P03410	Q8IZU0	1.9262
14452	P03410	P18887	0.97644
14453	P03410	Q5JNZ3	0.85796
14454	P03410	Q13227	1.8666
14455	P03410	Q8IZ73	0.41855
14456	P03410	Q9UPQ9	0.70858
14457	P03410	O75934	0.80554
14458	P03410	P23246	0.73983
14459	P03410	Q8TAU3	0.82084
14460	P03410	Q8IYN0	0.86116
14461	P03410	Q0D2K0	1.0846
14462	P03410	Q05877	1.4773
14463	P03410	Q8IZX4	0.24689
14464	P03410	Q8N9E0	1.4883
14465	P03410	Q7Z7B7	1.4445
14466	P03410	P43320	0.40006
14467	P03410	Q15041	0.14054
14468	P03410	Q9HAJ7	1.7105
14469	P03410	Q9NPR9	1.4518
14470	P03410	P82094	1.3823
14471	P03410	Q6IEE7	1.3458
14472	P03410	P61247	1.2501
14473	P03410	O75335	0.44317
14474	P03410	P19838	0.86983
14475	P03410	Q8WVI7	0.22086
14476	P03410	Q96PC3	0.65802
14477	P03410	Q9UHV2	2.2085
14478	P03410	Q68CJ9	0.6317
14479	P03410	Q96P26	0.60157
14480	P03410	P13489	0.73904
14481	P03410	Q494R0	1.6653
14482	P03410	Q8TB03	1.2765
14483	P03410	Q96Q89	0.60414
14484	P03410	O00519	0.61487
14485	P03410	P0CI01	1.0907
14486	P03410	P62241	0.82472
14487	P03410	Q9Y285	1.1511
14488	P03410	O95801	0.30087
14489	P03410	Q71RC9	1.0992
14490	P03410	P17987	0.29434
14491	P03410	Q9BYR7	1.5889
14492	P03410	Q5QGS0	0.19068
14493	P03410	Q6ZTN6	0.84824
14494	P03410	P30084	0.32907
14495	P03410	Q13094	0.7731
14496	P03410	Q96TA1	0.491
14497	P03410	P36956	0.25734
14498	P03410	Q8ND61	1.3781
14499	P03410	A6NNP5	0.14039
14500	P03410	Q86SZ2	1.1902
14501	P03410	Q8WVJ2	0.41335
14502	P03410	Q53G59	0.58824
14503	P03410	O75154	1.0323
14504	P03410	Q9UHR6	1.3243
14505	P03410	P46527	0.50255
14506	P03410	Q9NYW8	0.66484
14507	P03410	Q96CW1	0.8409
14508	P03410	Q86VQ0	0.8051
14509	P03410	P0DMC3	1.6653
14510	P03410	Q5BKY9	1.4883
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14512	P03410	Q5TC12	0.82555
14513	P03410	Q8N715	0.92384
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14516	P03410	Q9ULR0	1.354

14517	P03410	Q9H6K1	0.38408
14518	P03410	Q96RL7	1.2844
14519	P03410	Q16589	0.62157
14520	P03410	Q8N960	0.35507
14521	P03410	Q9H4X1	1.3941
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14523	P03410	P52655	1.6033
14524	P03410	Q14157	1.2671
14525	P03410	Q9UPV7	0.5065
14526	P03410	Q9H213	0.1839
14527	P03410	Q17RM4	0.88262
14528	P03410	P35244	0.77231
14529	P03410	P55854	0.83208
14530	P03410	O75461	0.22622
14531	P03410	P53999	1.19
14532	P03410	P62829	1.6473
14533	P03410	Q99457	0.60635
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14535	P03410	A6NHP3	1.0907
14536	P03410	Q0VFX4	1.0954
14537	P03410	E9PJ23	0.15432
14538	P03410	P49207	1.7586
14539	P03410	A2VDF0	0.55156
14540	P03410	Q9NUX5	0.20888
14541	P03410	P51610	0.56291
14542	P03410	Q9HBM0	1.2184
14543	P03410	A8MU10	1.6653
14544	P03410	Q17RC7	0.80906
14545	P03410	Q9BW72	0.6859
14546	P03410	Q86WB0	2.0376
14547	P03410	Q15427	0.37696
14548	P03410	A6NFA0	1.0913
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14553	P03410	Q9BQN1	1.4984
14554	P03410	P10768	0.21718
14555	P03410	Q7L0L9	1.6653
14556	P03410	Q13137	1.3737
14557	P03410	Q8WTP8	0.14525
14558	P03410	Q8IX21	0.52303
14559	P03410	Q9UPP5	1.2147
14560	P03410	Q5T4T6	1.6188
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14562	P03410	Q9BZE9	1.1351
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14564	P03410	Q96FI4	0.61981
14565	P03410	A1A580	1.9939
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14567	P03410	Q9UKT7	0.2927
14568	P03410	Q6ZVU0	0.29892
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14571	P03410	Q16822	0.44449
14572	P03410	Q5JR59	1.641
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14579	P03410	P26373	1.2457
14580	P03410	Q6NYC8	0.85899
14581	P03410	Q96H79	1.0932
14582	P03410	P0C2Y1	0.45252
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14596	P03410	Q9Y6J0	0.15044
14597	P03410	Q9P219	0.56375
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14601	P03410	Q6ZMW3	0.3132
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14604	P03410	Q9H267	0.54115
14605	P03410	Q5TA78	1.6653
14606	P03410	P56556	0.67399
14607	P03410	P82663	1.3257
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14611	P03410	P05121	0.19789
14612	P03410	Q6RUI8	1.2987
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14615	P03410	Q14CN4	0.71041
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14617	P03410	Q96GN5	0.94188
14618	P03410	Q86XT9	0.99712
14619	P03410	O14960	0.93617
14620	P03410	Q8IXK0	0.17094
14621	P03410	P55036	0.96841
14622	P03410	P0C852	1.6653
14623	P03410	Q96RS0	0.4925
14624	P03410	Q6PI47	0.32577
14625	P03410	O43929	0.13106
14626	P03410	Q96KJ9	0.43776
14627	P03410	Q9H2G9	0.45957
14628	P03410	P22732	0.37302
14629	P03410	Q9HB71	0.69496
14630	P03410	O75330	0.80205
14631	P03410	Q9BWJ5	0.79175
14632	P03410	Q9Y4Y9	0.89934
14633	P03410	Q9NQG1	1.0992
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14636	P03410	Q5VVM6	0.17971
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14639	P03410	Q9BU89	0.46369
14640	P03410	Q6ZNA4	0.30066
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14644	P03410	Q96QR1	1.2989
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14647	P03410	Q5SNX5	1.6653
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14653	P03410	Q15572	1.3426
14654	P03410	P61513	0.80463
14655	P03410	Q9Y6Z5	1.4536
14656	P03410	Q6N075	0.91205
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14658	P03410	P0C7X5	0.89166
14659	P03410	Q96PE3	0.12081
14660	P03410	Q8NEB7	1.1503
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14663	P03410	P50479	0.50973
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14673	P03410	A8MVJ9	0.91979
14674	P03410	P0CW27	1.0218
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14678	P03410	Q5T619	0.71942
14679	P03410	Q9UL41	0.89247
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14694	P03410	Q12893	0.80674
14695	P03410	Q9UGB4	1.6653
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14699	P03410	Q96KC9	1.1963
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14701	P03410	Q8N9K7	1.6653
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14733	P03410	O95639	0.54154
14734	P03410	Q96B33	0.7982
14735	P03410	P61550	0.77303
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14737	P03410	Q96EY4	0.86554
14738	P03410	P0C7P2	0.93301
14739	P03410	A6NN14	0.79552
14740	P03410	Q68EN5	0.61594
14741	P03410	Q52LA3	0.79076
14742	P03410	Q32M78	0.93665
14743	P03410	E7ETH6	0.71345
14744	P03410	P60608	0.84218

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14747	P03410	Q9Y2R0	1.093
14748	P03410	Q9Y3C0	0.57389
14749	P03410	Q13394	0.45332
14750	P03410	Q9UNY4	0.37375
14751	P03410	Q9NR50	0.70127
14752	P03410	Q9UGK3	0.8372
14753	P03410	Q9Y2D5	0.44068
14754	P03410	Q9NP64	0.42584
14755	P03410	Q53FD0	1.2996
14756	P03410	P51808	0.48959
14757	P03410	Q9Y2Y9	0.80875
14758	P03410	Q6NSX1	0.98261
14759	P03410	Q9NXR7	0.7359
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14761	P03410	Q99832	0.23898
14762	P03410	Q6ZTR5	0.67643
14763	P03410	Q15293	0.59211
14764	P03410	P82909	0.76966
14765	P03410	Q8NCS4	1.0913
14766	P03410	P0DJI8	0.78091
14767	P03410	P29374	0.23516
14768	P03410	Q9Y675	1.8316
14769	P03410	Q9NZH5	0.69617
14770	P03410	Q4QY38	0.87928
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14772	P03410	Q4G0N4	0.42752
14773	P03410	Q9HCH0	1.9367
14774	P03410	Q9NSP4	0.31287
14775	P03410	Q13106	0.79191
14776	P03410	Q32M84	0.29589
14777	P03410	A8MYR8	0.13857
14778	P03410	P51161	0.22411
14779	P03410	Q8N9T2	1.6653
14780	P03410	Q8N9Z0	0.9607
14781	P03410	A5D6W6	1.1822
14782	P03410	Q96DU7	0.65665
14783	P03410	Q5T6M2	1.3218
14784	P03410	Q14893	0.67134
14785	P03410	O15255	1.6653
14786	P03410	O75865	0.96211
14787	P03410	Q8N5J4	0.49711
14788	P03410	A1L170	1.6653
14789	P03410	O95405	0.32477
14790	P03410	Q96AB3	0.91885
14791	P03410	Q9H4M3	0.588
14792	P03410	Q8NDW4	0.81544
14793	P03410	P02808	1.3129
14794	P03410	Q5VTH2	1.0132
14795	P03410	Q96T76	0.97011
14796	P03410	Q6ZW13	1.6653
14797	P03410	Q9NZL3	0.78211
14798	P03410	Q6UXU1	1.6653
14799	P03410	Q9BU02	1.6294
14800	P03410	Q16666	0.56485
14801	P03410	Q5VSY0	0.57842
14802	P03410	Q5UE93	1.0212
14803	P03410	Q8NAA4	0.25908
14804	P03410	Q969W9	0.95154
14805	P03410	Q8NHU2	0.27443
14806	P03410	Q8WY91	0.79167
14807	P03410	Q15058	0.59889
14808	P03410	A6NEQ2	1.6653
14809	P03410	Q9Y2G2	0.67192
14810	P03410	Q7L8L6	0.6541
14811	P03410	Q7Z4U5	1.4445
14812	P03410	O14681	1.3
14813	P03410	A6XGL0	0.68302
14814	P03410	Q9HDB8	0.62824
14815	P03410	Q5HYK7	1.3011
14816	P03410	Q9UFF9	0.43881
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14818	P03410	Q99708	0.82298
14819	P03410	Q5T3Y7	0.54971
14820	P03410	Q9UDV7	0.58281



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14822	P03410	Q8IWE5	0.69666
14823	P03410	O75638	2.1063
14824	P03410	Q14593	0.98893
14825	P03410	O43402	1.4965
14826	P03410	Q9UNN5	0.82046
14827	P03410	Q3SYF9	1.6653
14828	P03410	A1L188	1.6264
14829	P03410	Q8WW14	0.69454
14830	P03410	Q96EY9	0.57319
14831	P03410	Q27J81	0.35512
14832	P03410	Q9HBK9	0.23304
14833	P03410	Q6ZVM7	0.051615
14834	P03410	Q9H1M0	0.27236
14835	P03410	Q5T7P2	1.6653
14836	P03410	Q8IWY9	0.76789
14837	P03410	Q9UKH3	1.1199
14838	P03410	P02008	0.801
14839	P03410	P10144	0.3424
14840	P03410	P52594	0.35876
14841	P03410	A4D2B0	1.005
14842	P03410	P35638	0.64365
14843	P03410	Q5GH73	0.63672
14844	P03410	O14920	0.84168
14845	P03410	Q14526	0.37859
14846	P03410	Q9GZR2	0.13563
14847	P03410	P26368	0.63265
14848	P03410	P68104	0.66271
14849	P03410	O95359	0.49049
14850	P03410	Q8WWF3	1.1105
14851	P03410	O95238	0.2185
14852	P03410	Q9H3R5	0.6754
14853	P03410	Q10570	0.99849
14854	P03410	Q6Q759	1.5523
14855	P03410	O14828	0.86361
14856	P03410	Q8N8D7	1.0629
14857	P03410	Q59GR2	0.2823
14858	P03410	Q9H869	1.9546
14859	P03410	Q02833	0.75696
14860	P03410	Q9UK13	0.98524
14861	P03410	Q8N1F1	1.6653
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14863	P03410	Q8N8E2	0.16637
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14866	P03410	Q96N58	0.88535
14867	P03410	Q5SXM8	0.43009
14868	P03410	Q8N2C7	1.3358
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14872	P03410	Q14257	0.30163
14873	P03410	Q8N813	0.57909
14874	P03410	A6PVL3	0.64661
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14877	P03410	Q14974	1.3655
14878	P03410	Q9NV12	1.0913
14879	P03410	Q13155	0.63529
14880	P03410	Q5T0L3	1.491
14881	P03410	Q8N4M7	1.7052
14882	P03410	O60293	0.26461
14883	P03410	Q8TCS8	0.4721
14884	P03410	Q8N0X7	0.29524
14885	P03410	P56279	1.695
14886	P03410	Q8WXA3	0.25041
14887	P03410	O14556	0.24877
14888	P03410	P61326	1.0202
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14890	P03410	Q9H4L7	0.33285
14891	P03410	P62072	0.4928
14892	P03410	Q9HB75	0.86
14893	P03410	O75683	1.3065
14894	P03410	O60613	0.89556
14895	P03410	Q8N5S3	0.044999
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14898	P03410	Q6ZVN7	0.6805
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14902	P03410	Q8WVC0	1.001
14903	P03410	P19387	0.87939
14904	P03410	Q96K17	0.79439
14905	P03410	Q86YD7	0.69342
14906	P03410	Q9GZR5	0.62505
14907	P03410	A1A4T8	0.22378
14908	P03410	A1A5D9	1.433
14909	P03410	P11137	0.36133
14910	P03410	Q14103	0.59979
14911	P03410	O96006	1.3083
14912	P03410	A6NKD9	1.6212
14913	P03410	P62304	0.81849
14914	P03410	P59797	1.6199
14915	P03410	Q13296	0.53793
14916	P03410	Q96NR7	0.23692
14917	P03410	O95567	1.6653
14918	P03410	P02144	0.36975
14919	P03410	P59022	0.80508
14920	P03410	P20585	0.16925
14921	P03410	Q3SYA9	0.6931
14922	P03410	P62899	1.3249
14923	P03410	Q96RT1	0.45077
14924	P03410	P16415	0.83424
14925	P03410	Q96N22	1.004
14926	P03410	Q08AD1	0.9191
14927	P03410	Q15833	0.54584
14928	P03410	P35813	0.24469
14929	P03410	Q96HT8	2.3056
14930	P03410	Q13772	0.42127
14931	P03410	Q9NSE4	0.84507
14932	P03410	Q8TC05	1.8748
14933	P03410	Q17RA5	1.6653
14934	P03410	P78316	1.598
14935	P03410	Q6P6C2	0.636
14936	P03410	Q8TCF1	0.38332
14937	P03410	Q96LA8	0.71557
14938	P03410	Q13360	0.71265
14939	P03410	Q8N7R0	0.30793
14940	P03410	A6NE21	0.71133
14941	P03410	P06454	1.4377
14942	P03410	Q9NX01	0.32076
14943	P03410	Q8N7G0	0.30793
14944	P03410	Q9H7Y2	1.2162
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14947	P03410	P56192	0.87459
14948	P03410	Q96B49	1.6165
14949	P03410	Q9UPY6	0.27504
14950	P03410	Q96DZ9	0.75695
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14952	P03410	Q15697	0.50183
14953	P03410	Q5VZ72	0.8618
14954	P03410	Q8IYX3	1.4058
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14956	P03410	Q8NDW8	0.17645
14957	P03410	Q9NX38	0.3488
14958	P03410	Q6P9B6	0.6999
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14960	P03410	Q0VDG4	0.51138
14961	P03410	Q96BW1	0.44945
14962	P03410	Q6ZTK2	0.24455
14963	P03410	P0C671	0.13891
14964	P03410	O15234	1.6569
14965	P03410	Q15042	0.35518
14966	P03410	Q9H825	0.43842
14967	P03410	Q14C87	1.1594
14968	P03410	Q7Z6I5	1.5232
14969	P03410	Q9BZL4	0.83836
14970	P03410	Q3LHN0	1.9066
14971	P03410	Q8N0S6	0.67869
14972	P03410	Q6ZRS4	1.3104

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14975	P03410	Q9Y2G0	0.79662
14976	P03410	Q14353	0.18485
14977	P03410	O43633	0.46675
14978	P03410	Q96T23	0.57172
14979	P03410	Q9P015	1.2694
14980	P03410	Q9H147	1.4311
14981	P03410	P49184	0.51372
14982	P03410	Q8IX12	1.0743
14983	P03410	Q4VC05	1.4988
14984	P03410	Q5T7R7	1.0913
14985	P03410	Q96GC9	0.63773
14986	P03410	Q13889	0.26536
14987	P03410	Q14061	1.2278
14988	P03410	Q15172	0.61382
14989	P03410	Q6A163	0.88723
14990	P03410	Q8NCG7	1.2968
14991	P03410	Q6PCB5	0.73589
14992	P03410	Q8WXX7	1.4474
14993	P03410	Q8TF08	1.0078
14994	P03410	Q6ZV65	0.61842
14995	P03410	Q8WYK2	0.37328
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14997	P03410	O00505	1.2956
14998	P03410	O75373	0.81868
14999	P03410	P62736	0.24431
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15001	P03410	Q8IXP5	1.4883
15002	P03410	Q96PK6	0.74209
15003	P03410	Q8NEE0	1.6653
15004	P03410	Q8TD31	1.3634
15005	P03410	P13804	0.09967
15006	P03410	Q99496	0.28112
15007	P03410	Q96A04	1.7311
15008	P03410	A1L4M7	0.078888
15009	P03410	P48634	1.0663
15010	P03410	Q9H5J8	1.5503
15011	P03410	Q9P2T0	0.92315
15012	P03410	Q14525	0.89153
15013	P03410	Q9UI08	0.3599
15014	P03410	A6PVY3	0.91041
15015	P03410	O95780	1.0456
15016	P03410	A8K0R7	1.0151
15017	P03410	Q5VUA4	0.4411
15018	P03410	Q86VQ1	0.60267
15019	P03410	Q8N3J5	0.044314
15020	P03410	A8K830	1.6653
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15022	P03410	Q5RGN0	1.289
15023	P03410	A6NL28	0.22746
15024	P03410	Q8N5J2	1.8333
15025	P03410	Q9NRL3	0.72585
15026	P03410	B1ATL7	0.60462
15027	P03410	P0C854	1.6653
15028	P03410	Q5VWM4	0.16455
15029	P03410	Q86VM9	0.27021
15030	P03410	O43684	0.88695
15031	P03410	A6NF01	1.4336
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15033	P03410	Q765I0	1.0305
15034	P03410	Q8IYK2	1.5147
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15036	P03410	P0CJ79	0.85175
15037	P03410	Q9P000	0.53492
15038	P03410	Q8N7Q3	0.78964
15039	P03410	Q8N511	0.77232
15040	P03410	Q7Z614	0.75291
15041	P03410	Q6PEY1	1.5675
15042	P03410	Q16658	0.40914
15043	P03410	Q2T9F4	0.44202
15044	P03410	Q6W349	1.7021
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15046	P03410	Q9HCM9	0.35652
15047	P03410	Q14929	0.79749
15048	P03410	Q96HY6	0.68732

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15050	P03410	Q9BY41	0.35229
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15052	P03410	Q7Z6J9	1.0797
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15054	P03410	Q05BW5	0.43826
15055	P03410	P06744	0.8875
15056	P03410	Q9BXU0	0.57168
15057	P03410	Q5T5N4	0.505
15058	P03410	P47710	0.82017
15059	P03410	Q96NU1	0.25632
15060	P03410	Q8NE71	0.47764
15061	P03410	Q9Y534	0.40869
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15068	P03410	Q969T9	1.6505
15069	P03410	Q5BIV9	1.3058
15070	P03410	Q96H22	0.75254
15071	P03410	Q60508	0.43839
15072	P03410	Q86WV1	0.83768
15073	P03410	Q5SWL7	1.0219
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15075	P03410	Q49AS3	1.3612
15076	P03410	P17861	0.88386
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15080	P03410	Q9UJK0	1.6739
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15083	P03410	P59861	0.87928
15084	P03410	P01858	1.6653
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15088	P03410	P07315	0.80389
15089	P03410	Q86WS4	1.6653
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15092	P03410	Q9Y2L5	0.40443
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15094	P03410	Q8NBN3	0.87668
15095	P03410	P78346	1.0744
15096	P03410	Q9Y239	0.24128
15097	P03410	Q9Y3B1	0.20886
15098	P03410	Q9NQR7	1.6653
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15103	P03410	Q6PCE3	0.91504
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15117	P03410	Q9H974	1.9791
15118	P03410	Q8TD10	0.20917
15119	P03410	Q8N9P6	1.6653
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15121	P03410	Q8NCU4	0.95044
15122	P03410	O14599	1.6653
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15132	P03410	Q8NG41	0.70327
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15141	P03410	Q9NRI7	1.6653
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15146	P03410	Q8WWY3	0.4713
15147	P03410	Q99766	0.94222
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15149	P03410	P15621	0.97247
15150	P03410	Q9BYQ2	1.9984
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15156	P03410	Q8TC90	1.5218
15157	P03410	Q8N1N4	0.8445
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15185	P03410	Q9HCE5	0.38209
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15187	P03410	Q2TAC2	0.040425
15188	P03410	Q8NI08	0.96682
15189	P03410	P62244	1.364
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15193	P03410	Q8IZE3	0.24386
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15204	P03410	Q9H7H0	1.0021
15205	P03410	P41162	0.20834
15206	P03410	O43504	0.40881
15207	P03410	P0C880	1.6653
15208	P03410	Q9BT43	0.34816
15209	P03410	Q96JM3	0.46478
15210	P03410	Q9H0U9	0.54058
15211	P03410	P12018	0.74569
15212	P03410	Q9BYQ9	1.9984
15213	P03410	P35080	0.77053
15214	P03410	Q9H4T2	0.53429
15215	P03410	Q9HAI6	0.97927
15216	P03410	Q9BU70	0.44524
15217	P03410	Q9NZ81	1.8834
15218	P03410	Q9H3P2	1.4092
15219	P03410	Q8N587	0.95607
15220	P03410	Q5T7N8	0.78129
15221	P03410	Q8WUN7	0.49184
15222	P03410	Q9UL59	0.74466
15223	P03410	Q96AB6	0.23238
15224	P03410	Q9NPJ4	2.3089
15225	P03410	A8MV24	0.75601
15226	P03410	O00268	0.96617
15227	P03410	Q69384	1.1647
15228	P03410	Q96AY2	1.1599
15229	P03410	Q6PRD7	1.6653
15230	P03410	Q12983	0.311
15231	P03410	Q8NEP4	1.4883
15232	P03410	Q8NFX5	0.97203
15233	P03410	Q15047	0.46641
15234	P03410	A6PW82	1.3071
15235	P03410	Q9NWT6	0.31349
15236	P03410	Q9H816	0.68476
15237	P03410	Q8N8Y2	0.13015
15238	P03410	Q86WR7	1.5141
15239	P03410	Q3V5L5	0.64904
15240	P03410	O43903	0.23201
15241	P03410	Q6PI98	0.80969
15242	P03410	Q8N4J0	1.5656
15243	P03410	P36508	0.41637
15244	P03410	Q5VWG9	0.79815
15245	P03410	Q12996	0.24888
15246	P03410	Q9P2Y5	0.67393
15247	P03410	P58317	0.815
15248	P03410	A1A4G5	1.6653
15249	P03410	Q9UJ41	0.37672
15250	P03410	Q9BQQ3	0.55074
15251	P03410	O94964	1.2494
15252	P03410	Q2M3G4	0.2529
15253	P03410	Q5MIZ7	0.6468
15254	P03410	Q9UBF9	0.39612
15255	P03410	Q6ZS46	1.7008
15256	P03410	Q96C28	0.8602
15257	P03410	Q8TBZ6	0.56812
15258	P03410	Q3KNV8	0.9101
15259	P03410	Q8WTP9	1.879
15260	P03410	Q8IYH5	0.53109
15261	P03410	Q8N5H3	1.4883
15262	P03410	Q9UKA4	0.29208
15263	P03410	Q9BWD3	1.3085
15264	P03410	Q8N7M2	0.96545
15265	P03410	Q8N6I4	1.0913
15266	P03410	Q96N38	1.0111
15267	P03410	Q13072	1.0723
15268	P03410	Q15388	0.40298
15269	P03410	P53680	0.40491
15270	P03410	P50995	1.0497
15271	P03410	Q9BRH9	0.82588
15272	P03410	P10916	0.28203
15273	P03410	Q96N03	0.6999
15274	P03410	O00442	0.6626
15275	P03410	Q15029	0.39046
15276	P03410	Q96S99	0.18531

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15280	P03410	Q9BQS6	1.018
15281	P03410	Q86SY8	1.6653
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15285	P03410	Q9UJ04	0.37927
15286	P03410	Q96G75	0.16544
15287	P03410	Q9BPX1	0.34464
15288	P03410	Q96SW2	0.60084
15289	P03410	Q86XF7	1.0598
15290	P03410	Q9HBQ8	1.594
15291	P03410	Q13495	1.7282
15292	P03410	Q8NFJ9	0.50538
15293	P03410	O75787	0.45805
15294	P03410	Q8N0T1	1.2581
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15296	P03410	Q8N7P3	0.64164
15297	P03410	Q8N616	1.6653
15298	P03410	Q9Y3A0	0.52963
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15302	P03410	Q9H1Y0	0.80342
15303	P03410	Q9NYY8	0.53766
15304	P03410	Q3MJ62	0.62675
15305	P03410	Q8N6L1	0.86881
15306	P03410	P37837	1.1572
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15308	P03410	Q5VUB5	1.0285
15309	P03410	Q96G30	0.82066
15310	P03410	Q8TC76	2.3386
15311	P03410	O75943	0.31307
15312	P03410	Q15014	1.1962
15313	P03410	Q9NP97	1.0254
15314	P03410	A6NDX5	0.7891
15315	P03410	Q8TAB5	1.4883
15316	P03410	Q8N7N1	0.032704
15317	P03410	Q13561	1.0928
15318	P03410	Q8N729	0.73366
15319	P03410	Q5T5M9	0.20917
15320	P03410	Q9UNK9	0.33766
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15322	P03410	P47756	0.26252
15323	P03410	Q9ULD0	0.43976
15324	P03410	Q8N3V7	1.2102
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15328	P03410	E5RJ46	1.6653
15329	P03410	Q8NBT3	1.0913
15330	P03410	P62913	1.3147
15331	P03410	Q6ZVT0	0.088381
15332	P03410	Q7L5D6	1.4965
15333	P03410	Q96CB8	0.67054
15334	P03410	P17661	0.81625
15335	P03410	Q86TY3	1.0913
15336	P03410	P26998	1.2726
15337	P03410	Q8TEL6	0.7587
15338	P03410	Q8WTZ3	0.92147
15339	P03410	Q8WTR7	0.72741
15340	P03410	Q701N2	1.6653
15341	P03410	Q6UXP9	0.22981
15342	P03410	Q9BRV3	0.28344
15343	P03410	Q96JB2	1.0773
15344	P03410	Q96CS4	0.78404
15345	P03410	Q14CZ0	2.0397
15346	P03410	Q8WVJ9	0.48134
15347	P03410	Q92804	0.20186
15348	P03410	P36871	0.096746
15349	P03410	P61978	0.87726
15350	P03410	Q6ZVN6	0.47834
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15354	P03410	Q5T953	1.6468
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15356	P03410	Q9BYQ6	1.9984
15357	P03410	P0C7T5	0.71318
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15359	P03410	Q6ZU67	0.51397
15360	P03410	Q8TAC9	0.86361
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15366	P03410	Q9H7P6	1.738
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15368	P03410	Q9UP83	1.5062
15369	P03410	Q8NBJ7	0.60048
15370	P03410	O75822	1.1167
15371	P03410	O15327	0.081297
15372	P03410	Q9BU76	1.1731
15373	P03410	P07438	0.83308
15374	P03410	Q9H1A4	1.0872
15375	P03410	Q8NFF5	0.77602
15376	P03410	Q8WZ55	1.028
15377	P03410	Q9H902	0.36984
15378	P03410	Q96NB3	0.47186
15379	P03410	Q9UPW5	0.20932
15380	P03410	Q9H115	0.28958
15381	P03410	O14929	1.0148
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15383	P03410	Q04864	0.98902
15384	P03410	P61583	1.6763
15385	P03410	A6NM66	0.50136
15386	P03410	Q5SSG8	1.1653
15387	P03410	Q86XT2	0.45231
15388	P03410	Q9GZY8	0.53425
15389	P03410	Q8WYQ3	1.6264
15390	P03410	Q9NWB1	0.33761
15391	P03410	Q86T03	1.4569
15392	P03410	Q6PJE2	0.1152
15393	P03410	H3BNL1	0.89561
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15395	P03410	Q96DB5	0.77425
15396	P03410	Q2KJ03	0.4757
15397	P03410	Q9HAZ2	0.37055
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15404	P03410	Q9BVC6	1.1514
15405	P03410	Q9Y2I6	0.51745
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15408	P03410	I3L3R5	1.6653
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15410	P03410	Q9BYU5	0.84455
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15413	P03410	Q9NQ60	0.87407
15414	P03410	Q8TE04	0.89332
15415	P03410	O43303	1.2375
15416	P03410	Q9NVV9	1.2804
15417	P03410	Q9UGY1	0.54188
15418	P03410	Q9UKX7	1.4032
15419	P03410	O60896	0.19139
15420	P03410	Q15773	1.3291
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15423	P03410	Q9GZM3	0.26848
15424	P03410	P15822	0.85015
15425	P03410	Q8NA19	0.29677
15426	P03410	Q3BBV1	2.3694
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15432	P03410	O95990	0.63273
15433	P03410	P02729	1.6653
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15439	P03410	Q96K80	0.5219
15440	P03410	Q7Z5B4	0.96234
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15462	P03410	A6NCS6	0.94764
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15465	P03410	Q9HBT8	0.74683
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15524	P03410	A8MVM7	1.6653
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15526	P03410	B3EWF7	1.6653
15527	P03410	P29728	0.25262
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15530	P03410	Q9H6K4	0.96244
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15539	P03410	Q96G25	0.96855
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15631	P03410	Q6ZWC4	1.0579
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15633	P03410	Q8N726	0.849
15634	P03410	Q6P3X8	1.3309
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15637	P03410	Q9BYV9	0.3558
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15652	P03410	Q5VYS4	0.31844
15653	P03410	Q15233	0.52875
15654	P03410	P54840	0.86524
15655	P03410	Q8IY22	0.22065
15656	P03410	Q8WVP5	1.626

15657	P03410	Q8NG31	1.1392
15658	P03410	Q9Y4P1	0.75491
15659	P03410	P08238	0.47171
15660	P03410	Q9UHU1	1.6653
15661	P03410	Q9GZM8	0.17264
15662	P03410	Q7Z5L0	0.92287
15663	P03410	P0CJ75	1.4876
15664	P03410	Q8IUB3	0.80669
15665	P03410	Q8N680	0.10142
15666	P03410	Q8N699	1.3203
15667	P03410	P80297	0.83277
15668	P03410	Q9NRF8	0.68083
15669	P03410	Q9H329	0.31872
15670	P03410	P11940	0.34797
15671	P03410	P49589	1.0003
15672	P03410	Q56VL3	1.1553
15673	P03410	Q5T440	0.54984
15674	P03410	P61568	0.65575
15675	P03410	Q9H9D4	0.73955
15676	P03410	Q504T8	0.5033
15677	P03410	A6NGG3	1.6653
15678	P03410	Q96SQ5	0.82084
15679	P03410	Q96CP2	0.26697
15680	P03410	A4GXA9	1.1455
15681	P03410	Q15390	0.71733
15682	P03410	Q5ST30	0.72956
15683	P03410	Q96D09	0.23502
15684	P03410	Q9NP98	1.1686
15685	P03410	Q9UMQ3	0.75669
15686	P03410	O94916	0.1711
15687	P03410	P36639	0.36647
15688	P03410	Q9NWW5	0.3631
15689	P03410	Q9H4I2	0.53752
15690	P03410	Q96JL9	0.83729
15691	P03410	P18847	1.1497
15692	P03410	Q8TDW5	0.24331
15693	P03410	Q96N19	0.67663
15694	P03410	Q9H6Z9	0.46485
15695	P03410	Q9UI66	1.6653
15696	P03410	Q9UJG1	1.3924
15697	P03410	Q8N9R6	0.59251
15698	P03410	P01106	0.38996
15699	P03410	Q96PZ2	0.76712
15700	P03410	Q9NZ52	0.97916
15701	P03410	Q02447	0.56428
15702	P03410	Q8NFP0	1.217
15703	P03410	Q15527	0.64058
15704	P03410	Q9UJ55	0.2347
15705	P03410	Q9H607	0.63705
15706	P03410	P16989	0.18141
15707	P03410	Q8IZ21	0.57664
15708	P03410	Q9NVP1	0.11218
15709	P03410	F2Z333	1.0913
15710	P03410	Q5T1N1	1.6465
15711	P03410	Q9GZZ8	1.6653
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15713	P03410	Q9BUJ2	1.2006
15714	P03410	Q6PJT7	0.99776
15715	P03410	Q5VZT2	0.67718
15716	P03410	Q5H9B9	0.50578
15717	P03410	Q8N4B1	0.42412
15718	P03410	Q969X5	0.39597
15719	P03410	Q8N661	1.1598
15720	P03410	A6NGQ2	0.90395
15721	P03410	Q9NVZ3	0.64276
15722	P03410	P49427	0.44581
15723	P03410	P63165	1.0266
15724	P03410	Q5GH72	1.1702
15725	P03410	Q5T4H9	1.6653
15726	P03410	O95251	0.68851
15727	P03410	Q08752	0.51764
15728	P03410	Q92750	0.63486
15729	P03410	B5ME19	0.46717
15730	P03410	Q9Y2Z2	1.6429
15731	P03410	Q96NJ1	1.6653
15732	P03410	Q969J3	0.031951

15733	P03410	Q96N68	1.6653
15734	P03410	Q9C0D7	0.70642
15735	P03410	Q13015	0.9647
15736	P03410	Q15372	0.86947
15737	P03410	P07992	0.14252
15738	P03410	P15880	1.2326
15739	P03410	Q9H3K6	0.80253
15740	P03410	Q15154	1.1201
15741	P03410	Q96C11	0.40354
15742	P03410	Q5CZC0	2.0654
15743	P03410	Q99814	0.24787
15744	P03410	Q9BTL3	1.5769
15745	P03410	P25705	0.17437
15746	P03410	Q9NV06	0.34567
15747	P03410	Q8N1V2	0.76548
15748	P03410	Q8NI27	1.1794
15749	P03410	Q9NXW9	0.66131
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15753	P03410	Q52MB2	1.4367
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15756	P03410	Q9Y5B9	0.32163
15757	P03410	P0C860	0.43433
15758	P03410	P62306	0.36164
15759	P03410	Q16600	0.7557
15760	P03410	P63272	0.9664
15761	P03410	P60510	1.038
15762	P03410	Q53HL2	1.0759
15763	P03410	Q8N7Y1	1.6653
15764	P03410	Q86W33	1.0992
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15767	P03410	Q6ZS72	0.8493
15768	P03410	Q9NP79	0.57928
15769	P03410	P46777	1.3528
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15772	P03410	Q9BTV7	0.29155
15773	P03410	Q06330	0.50244
15774	P03410	O15315	0.20578
15775	P03410	O60481	0.24427
15776	P03410	P56378	1.1049
15777	P03410	Q702N8	0.61236
15778	P03410	O76042	1.0076
15779	P03410	P46776	1.2786
15780	P03410	Q6ZR03	0.97282
15781	P03410	Q99502	0.078262
15782	P03410	Q6UXV3	1.6653
15783	P03410	P04264	0.72175
15784	P03410	Q14746	1.0439
15785	P03410	Q9BXP5	1.1077
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15787	P03410	Q96MT0	0.09736
15788	P03410	Q9NZ32	0.22107
15789	P03410	Q9HBH1	1.3262
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15792	P03410	Q99549	0.57968
15793	P03410	Q17RQ9	0.75648
15794	P03410	Q7Z392	0.82325
15795	P03410	Q06730	0.59461
15796	P03410	Q5VSD8	0.72567
15797	P03410	Q8NG48	0.18095
15798	P03410	P98171	0.24532
15799	P03410	Q96IR3	1.7067
15800	P03410	Q9NUS5	0.84772
15801	P03410	A6NGN4	0.44804
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15803	P03410	P19429	0.18583
15804	P03410	Q3LI54	1.6653
15805	P03410	Q9BSB4	0.5304
15806	P03410	Q96GE9	0.78116
15807	P03410	P61567	0.94016
15808	P03410	Q96BT1	0.11141

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15810	P03410	P82675	1.4181
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15813	P03410	Q13057	0.56984
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15815	P03410	Q92670	0.61398
15816	P03410	Q86U86	1.0888
15817	P03410	Q5JNZ5	0.85912
15818	P03410	Q5JUK9	0.51383
15819	P03410	O15060	0.37181
15820	P03410	Q13445	0.090673
15821	P03410	Q96GM5	0.94885
15822	P03410	Q9BSG1	0.87552
15823	P03410	O14948	0.38434
15824	P03410	Q6ZWJ1	0.31852
15825	P03410	Q70EL1	0.67234
15826	P03410	Q569K4	0.28241
15827	P03410	Q9NWD9	0.77162
15828	P03410	P54105	1.4195
15829	P03410	Q9P217	0.25864
15830	P03410	O15259	0.39162
15831	P03410	P0C7Q5	1.1631
15832	P03410	Q8NFB4	1.1317
15833	P03410	O75251	0.49782
15834	P03410	Q17RP2	0.11139
15835	P03410	O60682	0.28848
15836	P03410	Q8N1W0	1.6653
15837	P03410	Q8N8C0	0.74317
15838	P03410	H3BNL8	1.4409
15839	P03410	P17812	0.62555
15840	P03410	Q8WV60	0.48337
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15842	P03410	Q01860	0.54121
15843	P03410	B7ZAQ6	0.86829
15844	P03410	Q8N344	0.71946
15845	P03410	Q8N9P0	0.92452
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15847	P03410	P0CG23	0.62281
15848	P03410	Q6AZW8	0.71108
15849	P03410	Q9NR28	1.0739
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15852	P03410	Q96K30	1.1139
15853	P03410	Q4L180	0.29921
15854	P03410	Q86UW1	1.0785
15855	P03410	Q5TYW8	0.22356
15856	P03410	A6NC98	0.17347
15857	P03410	O43736	0.69585
15858	P03410	Q6ZMW2	0.75901
15859	P03410	O75351	0.40027
15860	P03410	Q6P3V2	0.6269
15861	P03410	Q32P44	0.3132
15862	P03410	P05413	0.47132
15863	P03410	Q13077	0.59066
15864	P03410	P24928	0.69868
15865	P03410	Q16548	0.88202
15866	P03410	Q9NRP2	1.5413
15867	P03410	Q2M2W7	1.4883
15868	P03410	O14548	0.15302
15869	P03410	Q9NQ39	0.32994
15870	P03410	Q6IPU0	1.3008
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15874	P03410	Q8IVD9	0.8639
15875	P03410	Q9BUW7	1.4883
15876	P03410	Q9NS93	1.0003
15877	P03410	P41218	0.54188
15878	P03410	Q63ZY6	0.25335
15879	P03410	Q96B42	0.83053
15880	P03410	Q9Y2V7	0.35585
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15882	P03410	Q9H1H9	0.91525
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15888	P03410	A6NLJ0	1.6608
15889	P03410	Q08AE8	0.40708
15890	P03410	Q9BXH1	0.58528
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15892	P03410	Q53GL7	0.63163
15893	P03410	Q5HYC2	0.31264
15894	P03410	Q96MU5	1.3886
15895	P03410	P15954	0.81885
15896	P03410	Q8IX03	1.0815
15897	P03410	Q9P260	0.27417
15898	P03410	Q9UC06	0.71433
15899	P03410	Q16517	1.1188
15900	P03410	Q8N8G2	0.92657
15901	P03410	Q8NB16	0.23158
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15903	P03410	P49356	0.22025
15904	P03410	Q8TCJ0	1.6171
15905	P03410	Q9P299	0.59646
15906	P03410	Q9UII5	0.77805
15907	P03410	Q8N1B3	0.90855
15908	P03410	B3EWG6	1.4883
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15910	P03410	Q6IEG0	0.65992
15911	P03410	A6NFI3	0.69737
15912	P03410	Q15776	0.65578
15913	P03410	Q8N6F8	0.042244
15914	P03410	P60900	0.67235
15915	P03410	Q8N8J7	0.72796
15916	P03410	Q8NB50	0.81411
15917	P03410	Q495Y7	0.24594
15918	P03410	Q2NL98	1.5976
15919	P03410	Q9UM07	0.76428
15920	P03410	Q8WV44	0.24744
15921	P03410	Q0JRZ9	0.31497
15922	P03410	Q14264	0.61204
15923	P03410	Q8WV07	0.63805
15924	P03410	O96019	1.0085
15925	P03410	Q9Y3C8	0.64371
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15927	P03410	P0CW20	0.43173
15928	P03410	A1L162	1.1749
15929	P03410	Q8N292	0.96448
15930	P03410	Q3SYG4	0.68671
15931	P03410	Q2NL68	1.4883
15932	P03410	Q8TDZ2	0.3052
15933	P03410	Q6ZRP0	1.4883
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15935	P03410	Q9UKD1	0.62603
15936	P03410	P54845	0.34319
15937	P03410	O43427	0.47959
15938	P03410	P62310	0.71644
15939	P03410	O75674	0.63971
15940	P03410	P04733	0.80043
15941	P03410	A6NCN8	1.4883
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15943	P03410	Q96SA4	0.86137
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15945	P03410	Q9UHD4	1.1026
15946	P03410	O60811	0.10172
15947	P03410	P55060	1.1746
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15950	P03410	Q9UBP6	1.5947
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15956	P03410	Q9NY30	0.60299
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15959	P03410	O96020	1.2925
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15961	P03410	Q96BN8	0.36541
15962	P03410	Q9Y6Q3	0.67613
15963	P03410	A6NC62	0.44221
15964	P03410	Q15172	0.43604
15965	P03410	Q9P2B4	0.65805
15966	P03410	Q96S59	1.043
15967	P03410	Q9ULH7	0.8542
15968	P03410	O43747	0.96634
15969	P03410	Q04917	0.48919
15970	P03410	Q6UWT2	0.95938
15971	P03410	P10073	0.86204
15972	P03410	Q8IUE0	0.30793
15973	P03410	Q92902	0.21402
15974	P03410	Q8IYI0	0.78314
15975	P03410	O95299	0.091218
15976	P03410	P41220	0.3727
15977	P03410	Q9UL18	1.1302
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15979	P03410	Q495M9	0.58456
15980	P03410	Q0D2J5	0.67869
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15982	P03410	Q8NC69	0.32577
15983	P03410	Q9BXF3	0.89154
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15985	P03410	Q9ULK2	0.99972
15986	P03410	Q96FT9	0.32977
15987	P03410	Q6UXD1	1.0913
15988	P03410	O76041	0.3686
15989	P03410	P46013	0.60376
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15991	P03410	Q12962	1.2361
15992	P03410	Q4KMX7	0.35337
15993	P03410	Q9BW92	0.7115
15994	P03410	Q9BQA5	0.76958
15995	P03410	Q9Y316	0.80629
15996	P03410	Q96G21	1.1399
15997	P03410	Q8N983	0.78893
15998	P03410	Q9UBT6	0.33408
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16001	P03410	Q9BTP6	1.0837
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16003	P03410	Q5U5X0	1.5911
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16009	P03410	Q8IXS2	0.28981
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16012	P03410	Q14997	0.65997
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16014	P03410	Q13620	0.76257
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16021	P03410	A8MUX0	0.89429
16022	P03410	Q03989	0.38374
16023	P03410	Q9UQE7	0.24841
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16027	P03410	O15235	1.1934
16028	P03410	Q9Y5J7	0.51539
16029	P03410	Q15111	0.86614
16030	P03410	Q9ULZ2	0.97937
16031	P03410	Q6UX46	1.0597
16032	P03410	Q8N1L1	1.6653
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16038	P03410	Q8N5U0	1.6653
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16043	P03410	Q6ZN03	0.65094
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16047	P03410	P15941	0.37593
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16052	P03410	Q9Y2B2	1.3624
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16054	P03410	A2RUB1	1.4883
16055	P03410	Q8TAW3	0.81318
16056	P03410	Q8WTW4	0.57619
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16058	P03410	Q9NQ87	0.35773
16059	P03410	Q9ULM6	0.84085
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16061	P03410	Q9NQX6	0.8415
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16065	P03410	Q12765	1.0127
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16067	P03410	Q9NWF9	0.71965
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16070	P03410	O00198	1.5526
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16079	P03410	Q8N138	0.61153
16080	P03410	Q567V2	0.49581
16081	P03410	Q69YN2	0.396
16082	P03410	A7E2U8	0.70026
16083	P03410	Q6ISU1	0.677
16084	P03410	P42575	0.34318
16085	P03410	Q8NAX2	1.4883
16086	P03410	P25685	0.32461
16087	P03410	Q9UPR3	1.0333
16088	P03410	Q9UQ80	0.93301
16089	P03410	Q8IVJ8	1.4391
16090	P03410	Q5T871	1.6653
16091	P03410	Q86SX3	1.8247
16092	P03410	Q8N3J2	0.37536
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16096	P03410	Q5H9L2	1.1794
16097	P03410	Q6UWW9	0.70288
16098	P03410	Q5TAX3	0.71877
16099	P03410	Q9NQ35	1.1788
16100	P03410	P51970	0.12508
16101	P03410	P0DI80	1.0029
16102	P03410	P22528	1.0668
16103	P03410	O75427	0.86318
16104	P03410	A6NIY4	1.0907
16105	P03410	Q92614	0.29095
16106	P03410	Q9UHK0	0.45838
16107	P03410	Q96KR1	0.66409
16108	P03410	A3KN83	1.3611
16109	P03410	P35998	0.47844
16110	P03410	P50222	0.46372
16111	P03410	Q5VWM1	0.62283
16112	P03410	O60502	0.14816

16113	P03410	Q8TAQ5	0.79465
16114	P03410	Q6P2C0	0.66607
16115	P03410	Q14242	1.1851
16116	P03410	Q6YHU6	0.11156
16117	P03410	A5A3E0	0.23109
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16119	P03410	Q15750	0.87426
16120	P03410	Q86Y97	0.3482
16121	P03410	Q49B96	0.77301
16122	P03410	Q9UJ78	0.37759
16123	P03410	Q75843	1.0744
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16126	P03410	Q9NVM9	1.2985
16127	P03410	A8MXZ1	0.13951
16128	P03410	P0C2S0	0.96395
16129	P03410	Q6NXT1	0.45927
16130	P03410	Q6T4R5	0.73414
16131	P03410	Q96GX2	1.1594
16132	P03410	Q96A33	0.38444
16133	P03410	P51965	0.4251
16134	P03410	O43920	1.2113
16135	P03410	Q8N6I1	1.3174
16136	P03410	Q6AWC8	1.3597
16137	P03410	Q96FA3	0.87342
16138	P03410	P06396	0.82816
16139	P03410	Q8NEX6	0.89879
16140	P03410	Q9NPI6	1.0308
16141	P03410	Q7Z7B8	0.73641
16142	P03410	Q05682	0.2945
16143	P03410	Q3LI70	1.6653
16144	P03410	Q96AQ7	0.95426
16145	P03410	Q9H1A7	0.26848
16146	P03410	P61421	0.18179
16147	P03410	Q9NVD3	0.07018
16148	P03410	Q14692	0.54593
16149	P03410	Q9BQM9	1.0029
16150	P03410	Q9H1E3	1.5238
16151	P03410	P0CG34	1.2621
16152	P03410	Q8N6M5	0.48736
16153	P03410	Q7Z3Z0	1.0001
16154	P03410	Q96S95	1.2466
16155	P03410	A1L168	1.4883
16156	P03410	Q13526	0.64818
16157	P03410	P46781	1.2398
16158	P03410	Q68D91	0.10995
16159	P03410	A8MTA8	0.46415
16160	P03410	Q15393	0.14305
16161	P03410	Q12959	0.98743
16162	P03410	P54277	0.14347
16163	P03410	Q9UI09	0.1603
16164	P03410	P86481	1.6653
16165	P03410	Q7Z739	0.9812
16166	P03410	Q32Q52	0.71412
16167	P03410	Q96M43	0.65891
16168	P03410	Q9ULV0	0.22368
16169	P03410	P50221	0.38688
16170	P03410	Q15173	0.53955
16171	P03410	Q9Y3C1	0.32112
16172	P03410	Q8IYT2	0.87583
16173	P03410	Q86U90	1.2732
16174	P03410	Q9BUL8	0.95728
16175	P03410	Q9Y2N7	0.45563
16176	P03410	Q13503	0.76004
16177	P03410	Q9Y536	0.1777
16178	P03410	Q6NSI8	0.90597
16179	P03410	O15266	0.40545
16180	P03410	P60412	1.9984
16181	P03410	Q9C0D0	0.62535
16182	P03410	Q0IIN9	1.1125
16183	P03410	Q14019	0.46734
16184	P03410	Q9Y2D1	0.99797
16185	P03410	Q13609	0.21536
16186	P03410	Q9P1Y5	1.0348
16187	P03410	Q9UBI1	0.6999
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16190	P03410	Q9UH99	0.35444
16191	P03410	Q9H857	0.82263
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16195	P03410	Q9Y255	0.51635
16196	P03410	Q6PJG2	0.83412
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16198	P03410	Q99460	0.6072
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16201	P03410	Q52LJ0	0.66632
16202	P03410	Q8N9M1	0.6542
16203	P03410	Q0VF96	0.27972
16204	P03410	Q16655	1.5299
16205	P03410	P18124	0.99049
16206	P03410	Q14153	1.2127
16207	P03410	Q9H1F0	0.77619
16208	P03410	Q96B45	0.18078
16209	P03410	O60749	0.47783
16210	P03410	O76027	0.02554
16211	P03410	O43542	0.579
16212	P03410	Q4LEZ3	1.6298
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16214	P03410	Q13505	1.431
16215	P03410	Q2VPJ9	1.4883
16216	P03410	Q8IV36	0.8986
16217	P03410	Q9NS73	0.89881
16218	P03410	O60282	0.38415
16219	P03410	Q8NHU6	0.28898
16220	P03410	A8MUU9	0.45106
16221	P03410	O15069	0.54734
16222	P03410	Q8N3J9	0.74326
16223	P03410	Q9BVG4	0.60889
16224	P03410	Q2T9K0	0.9489
16225	P03410	Q9NWW0	0.34399
16226	P03410	Q7Z7N9	0.98082
16227	P03410	Q9NSK7	1.1852
16228	P03410	Q9BXW7	0.24652
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16230	P03410	Q3KP31	0.94919
16231	P03410	Q9Y2B4	0.53496
16232	P03410	O00400	0.73352
16233	P03410	Q9BYK8	0.37024
16234	P03410	P49588	0.30881
16235	P03410	A6NNH2	0.12769
16236	P03410	Q9Y224	1.5835
16237	P03410	Q9Y5S9	0.67953
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16239	P03410	Q969E1	1.0339
16240	P03410	Q7L190	1.5508
16241	P03410	P13667	0.43994
16242	P03410	Q16831	0.31141
16243	P03410	Q96QU8	1.1982
16244	P03410	Q96N77	0.62157
16245	P03410	Q8N6T7	0.72532
16246	P03410	Q9P0V3	0.63011
16247	P03410	Q5VW36	0.16654
16248	P03410	P60520	0.46677
16249	P03410	Q96Q45	0.82848
16250	P03410	Q8WW34	0.63587
16251	P03410	Q6PG37	1.0232
16252	P03410	Q7Z5K2	0.81966
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16254	P03410	Q9Y3C4	0.90083
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16256	P03410	P00374	0.2008
16257	P03410	O75528	0.6475
16258	P03410	O94905	0.45871
16259	P03410	Q06265	0.30953
16260	P03410	Q8N8U3	0.44889
16261	P03410	Q5JXX7	1.0691
16262	P03410	Q9UJX4	0.98786
16263	P03410	P14651	0.18795
16264	P03410	P04053	0.19005

16265	P03410	Q96L16	0.084763
16266	P03410	Q9H579	0.097446
16267	P03410	Q9BUU2	0.20599
16268	P03410	Q7KZ85	0.51779
16269	P03410	P0C6T2	0.7621
16270	P03410	P54136	1.1302
16271	P03410	Q8NB91	0.47243
16272	P03410	Q96A35	1.3245
16273	P03410	Q53GA4	0.19863
16274	P03410	Q9NTK5	1.1396
16275	P03410	P10242	0.92961
16276	P03410	Q8IYB9	0.81404
16277	P03410	Q8WWA1	1.0913
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16279	P03410	P53567	0.53566
16280	P03410	C9JLR9	1.2834
16281	P03410	Q8N5N4	0.96443
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16283	P03410	Q147U7	0.72853
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16286	P03410	Q9NPF5	1.0498
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16289	P03410	O43639	0.55832
16290	P03410	Q8WV15	1.0913
16291	P03410	Q9BWT1	1.584
16292	P03410	Q86YW9	0.45739
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16295	P03410	A6NEA5	0.83701
16296	P03410	Q9H1H1	0.65282
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16301	P03410	Q9Y605	2.2462
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16314	P03410	O60299	0.67935
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16316	P03410	Q9BYE4	1.6653
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16318	P03410	Q92688	0.34399
16319	P03410	Q7Z4S6	0.34531
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16327	P03410	Q9NTM9	0.25524
16328	P03410	Q9UL33	0.61893
16329	P03410	Q8NA70	0.16338
16330	P03410	P48147	0.67095
16331	P03410	Q9UHL9	0.69214
16332	P03410	Q14493	1.0337
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16334	P03410	Q15013	1.1327
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16337	P03410	Q19AV6	1.9595
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16344	P03410	O75582	0.28392
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16346	P03410	Q8N5I9	1.4883
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16348	P03410	P48444	0.74592
16349	P03410	Q96P70	1.2762
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16353	P03410	Q76FK4	0.3166
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16355	P03410	A6NEW6	0.6566
16356	P03410	O43561	0.29152
16357	P03410	Q6IB77	0.55374
16358	P03410	Q6ZSN1	0.91891
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16360	P03410	Q9NVK5	0.40492
16361	P03410	Q8WXI9	0.76216
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16363	P03410	Q9H0G5	0.79509
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16365	P03410	Q5JSZ5	1.4047
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16367	P03410	Q8NF99	0.69684
16368	P03410	Q9H649	0.23292
16369	P03410	Q14814	0.37704
16370	P03410	Q7Z4L9	0.28755
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16385	P03410	Q8N6V4	0.5111
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16388	P03410	Q9HAU0	0.48727
16389	P03410	Q6NSJ2	1.6045
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16403	P03410	Q6P1N9	0.60747
16404	P03410	Q8WZA9	1.4883
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16414	P03410	O60756	1.6653
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16418	P03410	Q96K62	0.53003
16419	P03410	Q9NZC7	0.37395
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16429	P03410	Q6P444	1.3102
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16431	P03410	Q05BU3	1.6653
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16444	P03410	O14862	0.59209
16445	P03410	O75792	1.6645
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16474	P03410	P32929	0.33674
16475	P03410	P51861	1.0228
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16513	P03410	Q8TF45	0.66065
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16515	P03410	P10645	0.67306
16516	P03410	O94811	1.0055
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16518	P03410	Q86V59	0.82274
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16525	P03410	Q92558	0.74927
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16536	P03410	Q5T5A8	1.6653
16537	P03410	D6RGH6	1.2671
16538	P03410	Q8IWA0	0.36709
16539	P03410	Q9BTE3	0.82434
16540	P03410	Q14210	0.57968
16541	P03410	Q9NPC3	0.068285
16542	P03410	Q9H9K5	0.79444
16543	P03410	Q3C1V8	0.54546
16544	P03410	P07902	0.97267
16545	P03410	Q8TF46	0.37675
16546	P03410	O15519	0.52788
16547	P03410	Q9UKK9	0.74717
16548	P03410	Q9P287	0.87165
16549	P03410	Q10567	1.0029
16550	P03410	Q12830	0.77497
16551	P03410	Q9H841	1.0846
16552	P03410	O14713	1.6418
16553	P03410	P30040	0.14125
16554	P03410	Q9BY42	1.1233
16555	P03410	Q8TEA1	0.56813
16556	P03410	Q8NEG2	1.0771
16557	P03410	Q5T750	0.63747
16558	P03410	Q8NFT6	0.30027
16559	P03410	Q9BV81	1.0583
16560	P03410	Q8WVZ9	0.54253
16561	P03410	Q9NZW5	0.44034
16562	P03410	P14625	0.2371
16563	P03410	Q2M1V0	0.30793
16564	P03410	Q96HH4	0.83382
16565	P03410	Q5VIY5	0.96412
16566	P03410	Q15468	0.94078
16567	P03410	Q969S3	0.85336
16568	P03410	Q9BZE3	0.46674

16569	P03410	O95954	0.65043
16570	P03410	Q9Y312	0.50977
16571	P03410	Q9BRA0	0.34399
16572	P03410	Q6WBX8	0.81676
16573	P03410	Q9H7T3	1.3157
16574	P03410	Q96ND8	1.038
16575	P03410	O95816	0.62931
16576	P03410	Q14978	1.2719
16577	P03410	P11168	0.30155
16578	P03410	P23381	0.61419
16579	P03410	Q9NUB4	1.6653
16580	P03410	Q9H0I3	0.59946
16581	P03410	P46199	0.91911
16582	P03410	Q6NSH3	1.0088
16583	P03410	Q9NPJ6	1.0146
16584	P03410	Q5JYT7	0.25643
16585	P03410	P04424	0.20822
16586	P03410	Q701N4	1.6653
16587	P03410	Q9GZN1	0.23477
16588	P03410	Q5BKU6	0.44351
16589	P03410	O00501	0.55833
16590	P03410	Q5T8I3	0.85705
16591	P03410	Q9BTC8	0.56106
16592	P03410	P0CL85	0.45056
16593	P03410	Q04446	0.59731
16594	P03410	Q9P2S5	0.32809
16595	P03410	Q13490	0.30968
16596	P03410	Q6IEE8	0.69139
16597	P03410	O60870	0.94642
16598	P03410	Q92665	1.2242
16599	P03410	Q8IYI8	0.84198
16600	P03410	Q96FZ2	1.7028
16601	P03410	A6NGR9	1.0935
16602	P03410	O75324	1.1749
16603	P03410	Q5W0A0	0.52132
16604	P03410	Q9UPQ4	0.23772
16605	P03410	Q5T699	0.17304
16606	P03410	Q8WZ19	0.043784
16607	P03410	Q5JRC9	1.2691
16608	P03410	Q9UNL4	0.52364
16609	P03410	Q00059	0.8426
16610	P03410	Q8TAT8	1.1422
16611	P03410	Q969E2	0.8202
16612	P03410	Q9UEU5	0.67218
16613	P03410	Q8IW36	0.88144
16614	P03410	P62136	0.57639
16615	P03410	O94868	0.6999
16616	P03410	Q92905	0.62977
16617	P03410	Q86X83	0.82654
16618	P03410	Q9BYD2	1.7377
16619	P03410	Q8IWV1	0.68585
16620	P03410	P35606	0.71606
16621	P03410	P24278	0.68641
16622	P03410	Q7Z6B0	1.0913
16623	P03410	Q53EQ6	0.76506
16624	P03410	Q86UA6	1.6889
16625	P03410	Q8NCR3	0.46557
16626	P03410	O75143	1.8748
16627	P03410	Q9HCJ0	0.62684
16628	P03410	O95931	0.91143
16629	P03410	Q5JQC9	0.50708
16630	P03410	Q9BQ13	0.32577
16631	P03410	Q9NXX8	0.84102
16632	P03410	Q9Y333	0.76454
16633	P03410	Q8WV28	0.36143
16634	P03410	Q9UBI9	1.4354
16635	P03410	Q5VZQ5	1.2619
16636	P03410	Q2M218	0.82417
16637	P03410	Q14533	1.329
16638	P03410	O60716	0.41173
16639	P03410	P06733	0.56726
16640	P03410	Q8TAA5	1.0396
16641	P03410	Q9Y543	0.26176
16642	P03410	Q96B18	0.46891
16643	P03410	Q6P2D0	0.76665
16644	P03410	Q9Y2H0	0.24203



16645	P03410	Q5SQN1	0.63061
16646	P03410	Q9P0W2	0.55824
16647	P03410	A6NEV1	1.3289
16648	P03410	Q8WXE1	1.0035
16649	P03410	Q9UMS5	1.4113
16650	P03410	Q9BUX1	0.95667
16651	P03410	O00232	0.60013
16652	P03410	Q4G112	0.30793
16653	P03410	O43679	0.41848
16654	P03410	Q5T8I9	0.40226
16655	P03410	Q9NRA8	1.2977
16656	P03410	Q5T215	0.6145
16657	P03410	Q9BSK0	1.4953
16658	P03410	O75182	1.1521
16659	P03410	P42695	0.51865
16660	P03410	Q8WTS6	0.38764
16661	P03410	Q96PV6	0.97166
16662	P03410	P0CF75	0.56656
16663	P03410	Q6PJG6	1.3248
16664	P03410	Q15513	1.6653
16665	P03410	A0AVF1	0.28197
16666	P03410	P58107	0.30536
16667	P03410	P36405	0.34328
16668	P03410	O15182	0.6714
16669	P03410	Q9BYX4	0.31295
16670	P03410	Q5JRM2	1.1653
16671	P03410	Q13867	0.36976
16672	P03410	Q14CW9	1.0222
16673	P03410	Q08ER8	0.89343
16674	P03410	Q8N339	0.19611
16675	P03410	Q9NV79	0.18038
16676	P03410	O15198	0.4362
16677	P03410	Q8TF39	1.0409
16678	P03410	Q9Y6R9	1.658
16679	P03410	P13985	1.6653
16680	P03410	Q9NRX3	1.2747
16681	P03410	Q5FWF6	0.91808
16682	P03410	Q9NXZ1	0.41837
16683	P03410	Q9H6J7	0.64244
16684	P03410	Q99627	0.4974
16685	P03410	Q9HAB3	1.0772
16686	P03410	A8MS94	0.65699
16687	P03410	Q9P2K5	0.22349
16688	P03410	Q9NY61	0.94965
16689	P03410	Q8N307	1.0867
16690	P03410	P12694	0.053256
16691	P03410	Q6NXN4	0.8698
16692	P03410	Q14457	0.81958
16693	P03410	Q9NPJ3	0.24898
16694	P03410	Q9UK11	0.89291
16695	P03410	Q75L30	1.6653
16696	P03410	Q5BKY1	0.41169
16697	P03410	Q9ULG1	0.35758
16698	P03410	Q17R26	0.70451
16699	P03410	E7EW31	1.6653
16700	P03410	Q8NHP7	0.48044
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16702	P03410	P62269	1.1903
16703	P03410	Q9HCI7	0.46639
16704	P03410	Q9Y586	0.31897
16705	P03410	Q6ZVD7	0.37111
16706	P03410	Q8N1X5	1.6653
16707	P03410	Q86WG3	0.54734
16708	P03410	P59090	1.6653
16709	P03410	Q13425	1.0054
16710	P03410	P28289	0.33651
16711	P03410	Q92572	0.8158
16712	P03410	A6NCN2	0.86808
16713	P03410	P63172	1.1077
16714	P03410	Q5JQC4	1.6653
16715	P03410	O95273	1.1536
16716	P03410	Q8IVI9	0.42076
16717	P03410	P07919	0.32504
16718	P03410	Q8NG50	0.29422
16719	P03410	Q4G0A6	1.5332
16720	P03410	O15544	0.0528

16721	P03410	O15145	0.48094
16722	P03410	A6NC51	0.75535
16723	P03410	Q92545	1.0913
16724	P03410	Q9H9L4	0.7221
16725	P03410	P23610	1.6653
16726	P03410	Q5VYK3	0.47282
16727	P03410	Q8TDY2	0.83213
16728	P03410	Q9BTX9	1.6849
16729	P03410	Q6H8Q1	0.39108
16730	P03410	Q9NSK0	0.36592
16731	P03410	A6NHQ2	0.30626
16732	P03410	Q9BQ52	0.50848
16733	P03410	O96011	0.38137
16734	P03410	Q8NDV7	0.43059
16735	P03410	Q01534	0.43746
16736	P03410	P20700	0.81811
16737	P03410	Q96RS6	0.34399
16738	P03410	O95050	0.06765
16739	P03410	Q9NZY2	1.6653
16740	P03410	Q5JTB6	1.0723
16741	P03410	Q7Z465	0.95377
16742	P03410	Q9UBU8	0.75956
16743	P03410	Q8N4S0	1.4883
16744	P03410	Q92845	0.41584
16745	P03410	O00273	0.45406
16746	P03410	Q8IV33	1.1305
16747	P03410	O43918	0.87258
16748	P03410	O00401	0.61634
16749	P03410	Q7Z4G4	0.32816
16750	P03410	Q5TD94	0.63308
16751	P03410	O43325	1.4003
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16753	P03410	O00159	0.1671
16754	P03410	P55273	0.2967
16755	P03410	Q9H4B0	1.1029
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16757	P03410	A6NHJ4	1.0268
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16761	P03410	Q9BXD5	1.1494
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16765	P03410	O75969	0.64883
16766	P03410	Q13515	0.74132
16767	P03410	O97980	1.1653
16768	P03410	Q13956	0.84351
16769	P03410	Q5C9Z4	0.79437
16770	P03410	Q6XLA1	0.034477
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16773	P03410	P33947	0.64571
16774	P03410	Q14657	1.5883
16775	P03410	Q8N7X2	1.6653
16776	P03410	A6NCI8	1.461
16777	P03410	Q8WWR9	1.0332
16778	P03410	Q9NVM4	0.16796
16779	P03410	Q9Y6F6	0.80953
16780	P03410	Q9BX70	0.89382
16781	P03410	P0CB33	0.95014
16782	P03410	Q8WW27	0.4304
16783	P03410	Q9BYI3	1.4747
16784	P03410	P20809	0.98812
16785	P03410	Q9NXT0	0.67571
16786	P03410	Q9NRY5	1.6349
16787	P03410	Q9NYP9	0.65218
16788	P03410	Q99732	0.63137
16789	P03410	P60409	1.9984
16790	P03410	P60370	1.9984
16791	P03410	Q8NDZ0	0.43175
16792	P03410	P31249	0.45931
16793	P03410	Q9BWG4	0.12952
16794	P03410	Q53RY4	1.0913
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16796	P03410	Q9BU19	0.10142

16797	P03410	Q6ZMR3	0.66514
16798	P03410	Q86SE9	1.0443
16799	P03410	Q9H5X1	0.33473
16800	P03410	Q9H813	0.80118
16801	P03410	Q8N0U4	0.77029
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16803	P03410	Q96JM2	0.30084
16804	P03410	Q96BY2	0.78244
16805	P03410	Q15847	1.6653
16806	P03410	Q9Y692	0.48369
16807	P03410	Q7L1Q6	0.50635
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16812	P03410	Q9H478	0.68629
16813	P03410	Q14765	0.26221
16814	P03410	Q6ICG8	1.9166
16815	P03410	Q13145	0.42718
16816	P03410	Q5SNT2	0.60438
16817	P03410	F8WFD2	0.70956
16818	P03410	P57075	0.39534
16819	P03410	Q86Y27	1.0723
16820	P03410	Q07020	1.3689
16821	P03410	Q9Y4M8	0.24874
16822	P03410	Q86X55	0.8938
16823	P03410	Q5T0W9	0.31506
16824	P03410	Q460N3	0.31893
16825	P03410	Q13868	0.56789
16826	P03410	O60813	0.64157
16827	P03410	P59646	0.90175
16828	P03410	Q07021	1.2034
16829	P03410	Q9UHD1	0.30238
16830	P03410	Q9NX00	0.57992
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16835	P03410	Q9NS23	0.45449
16836	P03410	Q96LX8	0.67607
16837	P03410	P49459	0.47809
16838	P03410	Q08378	0.55884
16839	P03410	Q9NR56	0.53556
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16848	P03410	Q7L3T8	1.1534
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16852	P03410	Q2TAK8	0.8863
16853	P03410	Q86WR0	0.66275
16854	P03410	O60645	0.82771
16855	P03410	Q5M9Q1	1.3344
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16857	P03410	Q2M389	0.65616
16858	P03410	Q04724	0.75085
16859	P03410	Q8N1A0	0.722
16860	P03410	Q9P2W9	0.62548
16861	P03410	Q53HM4	0.3747
16862	P03410	Q5JVX7	1.0995
16863	P03410	O43776	1.0793
16864	P03410	Q8IZ13	0.39624
16865	P03410	P55769	1.0207
16866	P03410	Q6ZUC2	1.1137
16867	P03410	Q2VY69	0.83577
16868	P03410	Q9H4Z2	0.68989
16869	P03410	Q6N021	0.73424
16870	P03410	Q9H3L0	1.5301
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16873	P03410	Q8IZT9	1.9262
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16876	P03410	Q9H8W2	0.70325
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16882	P03410	P43359	1.2552
16883	P03410	O95678	0.76165
16884	P03410	Q92764	0.78893
16885	P03410	Q9HCI6	0.76231
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16887	P03410	A8MXK9	1.1295
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16894	P03410	P12525	0.31642
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16896	P03410	Q14689	0.36607
16897	P03410	Q494V2	0.11896
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16905	P03410	O75928	0.64196
16906	P03410	A2RU30	1.3104
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16912	P03410	Q9H8T0	0.69111
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16915	P03410	P62847	1.0869
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16918	P03410	Q9NPL8	0.94433
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16921	P03410	P20674	0.14213
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16925	P03410	P22674	0.62052
16926	P03410	P0C5J1	0.34014
16927	P03410	Q96HI0	0.52738
16928	P03410	Q9NPC7	0.69482
16929	P03410	Q9BXN6	0.34399
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16932	P03410	Q96T37	0.5064
16933	P03410	O95067	0.80732
16934	P03410	Q5T754	1.6653
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16936	P03410	P51826	0.50263
16937	P03410	P0DM63	1.0659
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16939	P03410	P0CB43	0.56375
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16943	P03410	Q7L2K0	0.47889
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16947	P03410	Q9BRU2	0.60643
16948	P03410	Q8N7M0	0.62751

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16953	P03410	Q9UKT5	0.36407
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16955	P03410	O95865	0.5487
16956	P03410	Q4G0Z9	0.75539
16957	P03410	Q9HD47	0.51526
16958	P03410	Q96P16	0.23474
16959	P03410	P84090	0.64286
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16963	P03410	O14662	0.78389
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16965	P03410	Q7L2H7	0.86673
16966	P03410	P39687	1.3343
16967	P03410	Q9HD36	0.6146
16968	P03410	Q8NAB5	1.6653
16969	P03410	Q2M1K9	0.37497
16970	P03410	Q9NZV7	0.97856
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16972	P03410	P59074	0.19924
16973	P03410	Q8N2B8	0.84055
16974	P03410	O00399	0.30844
16975	P03410	P35321	1.0668
16976	P03410	P57071	0.5128
16977	P03410	Q8IYS2	1.0913
16978	P03410	Q9NRX1	0.29734
16979	P03410	Q8TAA3	0.54062
16980	P03410	Q8N0U6	1.6653
16981	P03410	Q6ZYL4	1.4152
16982	P03410	Q92843	0.74162
16983	P03410	Q96CW6	1.5137
16984	P03410	O00204	0.33927
16985	P03410	Q92783	0.97031
16986	P03410	P45381	0.31063
16987	P03410	P85299	0.077818
16988	P03410	Q6PCB6	0.12864
16989	P03410	P41134	0.36415
16990	P03410	Q9BY43	0.67907
16991	P03410	Q86TJ2	0.48473
16992	P03410	P11172	0.86054
16993	P03410	P31749	0.85409
16994	P03410	Q0VGE8	0.65458
16995	P03410	P17096	0.90016
16996	P03410	Q9H963	0.82125
16997	P03410	Q86UN6	0.56066
16998	P03410	Q8IXQ4	1.4883
16999	P03410	P16452	0.41378
17000	P03410	Q96N95	0.35193
17001	P03410	P58511	1.0913
17002	P03410	P09105	0.83359
17003	P03410	Q99767	0.59748
17004	P03410	O14579	0.79483
17005	P03410	Q9Y5A7	0.77719
17006	P03410	Q6EBC2	0.77249
17007	P03410	Q69YQ0	0.62041
17008	P03410	Q96QK1	1.0582
17009	P03410	Q5T7N7	1.6653
17010	P03410	A6NES4	0.62749
17011	P03410	Q9UBX2	0.27528
17012	P03410	O75420	0.62164
17013	P03410	Q9H7H1	1.0154
17014	P03410	P0C7N4	0.99267
17015	P03410	Q96N23	1.6225
17016	P03410	Q9H8V8	1.6653
17017	P03410	Q99440	0.81767
17018	P03410	Q8N114	1.1058
17019	P03410	P35579	0.59808
17020	P03410	Q6NSZ9	0.52498
17021	P03410	P52815	0.99623
17022	P03410	Q9NZQ3	0.94767
17023	P03410	H3BSY2	0.14694
17024	P03410	Q9Y2K1	0.10142

17025	P03410	Q96DM3	0.64718
17026	P03410	Q53TS8	0.79346
17027	P03410	Q9Y5Z9	0.70324
17028	P03410	Q9NP92	1.6627
17029	P03410	Q5TEV5	1.1405
17030	P03410	Q96N35	1.6653
17031	P03410	Q96GX8	1.4883
17032	P03410	Q5T7P3	1.6653
17033	P03410	P04792	0.43562
17034	P03410	P59047	0.28375
17035	P03410	Q9HAW4	0.62406
17036	P03410	Q7L9L4	0.77376
17037	P03410	Q6L8G5	1.6653
17038	P03410	Q9Y3Q8	1.1649
17039	P03410	Q6ZUG5	0.96856
17040	P03410	A2A288	0.85857
17041	P03410	Q969F1	1.0878
17042	P03410	Q5DJT8	0.37182
17043	P03410	Q9UKI2	0.32962
17044	P03410	P23396	0.93111
17045	P03410	Q9H3M7	0.7808
17046	P03410	O94777	1.044
17047	P03410	Q15124	0.12998
17048	P03410	Q9UK76	1.645
17049	P03410	Q9BUV8	0.19189
17050	P03410	Q7RTS1	0.2539
17051	P03410	O75161	2.12
17052	P03410	Q14232	0.32337
17053	P03410	P10412	0.16413
17054	P03410	Q8TCU4	0.53621
17055	P03410	Q9NYP8	0.50393
17056	P03410	Q8TCZ7	1.1695
17057	P03410	Q15003	1.2813
17058	P03410	Q96LJ8	1.3374
17059	P03410	Q63HN1	0.71274
17060	P03410	Q3MHD2	0.73141
17061	P03410	O75437	0.9221
17062	P03410	Q96DN6	1.4619
17063	P03410	Q96Q80	0.44732
17064	P03410	A6NJV1	1.2147
17065	P03410	Q8NDY3	0.30588
17066	P03410	Q6ZSB9	0.80359
17067	P03410	O00213	0.37465
17068	P03410	Q8TBR5	0.49919
17069	P03410	Q8N3S3	0.41708
17070	P03410	Q92934	0.18005
17071	P03410	Q68DH5	1.3563
17072	P03410	Q5XKR9	1.3654
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17075	P03410	Q9NXV6	1.3513
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17077	P03410	Q5T5W8	1.1467
17078	P03410	Q9HBX3	1.6653
17079	P03410	Q8N2W9	0.87434
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17081	P03410	Q96B67	0.58931
17082	P03410	P78406	0.65568
17083	P03410	P06746	0.47328
17084	P03410	Q69YU5	0.95938
17085	P03410	Q6P1M3	1.2113
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17087	P03410	P30419	0.53878
17088	P03410	Q9BUA3	1.2834
17089	P03410	Q969S9	1.0704
17090	P03410	Q9H668	0.35195
17091	P03410	Q9BYR2	1.9984
17092	P03410	Q8N6F1	0.14287
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17094	P03410	P45973	0.94984
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17097	P03410	P48556	0.67204
17098	P03410	Q99633	0.14118
17099	P03410	Q562F6	1.0548
17100	P03410	Q9H972	0.95938

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17103	P03410	P63167	1.4146
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17105	P03410	Q9NWA0	2.0609
17106	P03410	Q12798	1.0001
17107	P03410	Q86WQ0	0.7568
17108	P03410	P26599	0.27659
17109	P03410	Q96K75	0.75596
17110	P03410	Q96SN7	0.45689
17111	P03410	Q9Y2B5	0.58806
17112	P03410	Q9P209	1.2054
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17114	P03410	Q9Y2V2	0.7026
17115	P03410	O76015	0.88723
17116	P03410	Q9NP77	0.32982
17117	P03410	Q5T8R8	0.11242
17118	P03410	P20132	0.16349
17119	P03410	Q8N0V1	1.223
17120	P03410	P0CJ85	0.27528
17121	P03410	Q6PKG0	0.6999
17122	P03410	P42768	0.62193
17123	P03410	Q92785	0.65206
17124	P03410	Q86V97	0.54253
17125	P03410	Q8TB68	1.0297
17126	P03410	Q96CG3	0.70742
17127	P03410	A8MYZ0	1.0367
17128	P03410	Q7L5Y6	0.20917
17129	P03410	Q6ZUT6	0.90371
17130	P03410	Q9H8Y5	0.26328
17131	P03410	P49721	0.74834
17132	P03410	Q8N720	0.77051
17133	P03410	Q2PZI1	0.88883
17134	P03410	Q96C57	0.98341
17135	P03410	O95167	0.67883
17136	P03410	Q9Y287	0.80036
17137	P03410	Q96HE9	0.26411
17138	P03410	Q92674	0.47859
17139	P03410	Q8NDH6	0.61533
17140	P03410	P62266	1.1668
17141	P03410	Q15653	1.2056
17142	P03410	Q9NS69	0.36968
17143	P03410	Q8N7B6	0.79466
17144	P03410	Q96A00	1.0879
17145	P03410	O95260	0.1147
17146	P03410	O60268	0.5477
17147	P03410	O95190	1.2715
17148	P03410	P54252	0.41435
17149	P03410	Q8N1E6	0.4896
17150	P03410	Q9HD87	0.71182
17151	P03410	Q9Y3X0	1.168
17152	P03410	Q7L3B6	0.51425
17153	P03410	Q9UEE9	1.0757
17154	P03410	Q9NWU5	1.4739
17155	P03410	Q6NVY1	0.1345
17156	P03410	O94929	0.29282
17157	P03410	Q5T292	1.0946
17158	P03410	Q9H6S1	0.18234
17159	P03410	P40855	0.79635
17160	P03410	P56385	0.86334
17161	P03410	O60832	0.79468
17162	P03410	Q96S19	0.46681
17163	P03410	Q9NUP9	0.62406
17164	P03410	P52741	0.74365
17165	P03410	A8MWP4	0.70723
17166	P03410	P50570	0.39378
17167	P03410	Q659A1	0.90967
17168	P03410	Q92889	0.36279
17169	P03410	P19532	0.5967
17170	P03410	Q9BPZ2	1.0729
17171	P03410	Q8NBA8	0.72692
17172	P03410	Q9HC38	0.41276
17173	P03410	P07900	0.46176
17174	P03410	Q00587	0.56046
17175	P03410	Q8N9N2	0.49931
17176	P03410	Q5VTR2	0.36235

17177	P03410	P02766	0.04114
17178	P03410	Q8N0U2	1.6653
17179	P03410	Q8N443	0.80291
17180	P03410	Q6DCA0	0.35117
17181	P03410	P31358	1.3712
17182	P03410	Q9H063	0.86351
17183	P03410	Q9BQA1	1.0464
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17185	P03410	Q08999	1.2601
17186	P03410	P10243	0.64615
17187	P03410	Q5THR3	0.46163
17188	P03410	A8MU93	1.4883
17189	P03410	Q9Y468	0.8472
17190	P03410	A6NJG6	0.30793
17191	P03410	A6NNA5	0.15036
17192	P03410	Q9H211	0.91693
17193	P03410	Q96EK6	0.83855
17194	P03410	Q53FT3	0.77549
17195	P03410	Q96S55	0.61744
17196	P03410	Q6ZV60	1.6653
17197	P03410	Q59F38	0.22612
17198	P03410	Q7Z7A3	0.82652
17199	P03410	Q6ZSR3	1.6653
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17202	P03410	A6NDV4	0.2885
17203	P03410	Q5D862	0.095248
17204	P03410	Q9BRT6	0.776
17205	P03410	Q1HG44	1.3169
17206	P03410	Q9BTL4	1.1718
17207	P03410	Q9UJW0	0.72838
17208	P03410	Q8TAD1	0.59063
17209	P03410	Q7Z794	0.93858
17210	P03410	P20226	0.83912
17211	P03410	P82979	0.45162
17212	P03410	O75953	0.87141
17213	P03410	Q8TDN6	0.42808
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17217	P03410	Q96N16	1.4898
17218	P03410	Q9H6L5	0.94236
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17225	P03410	Q9GZR1	0.36562
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17228	P03410	Q15370	1.0596
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17230	P03410	P62249	1.269
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17238	P03410	O15225	1.6653
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17240	P03410	Q01105	0.75991
17241	P03410	Q9UK59	0.13416
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17243	P03410	Q9HAT2	0.97111
17244	P03410	Q86VS8	0.69552
17245	P03410	A5PLN7	1.4883
17246	P03410	Q6P1M9	0.6784
17247	P03410	Q86VE0	1.7014
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17250	P03410	Q8IXS0	1.4883
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17252	P03410	P48668	0.79891



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17254	P03410	Q6NX45	0.7597
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17256	P03410	Q9UHA2	0.52786
17257	P03410	A6NCC3	0.62012
17258	P03410	Q6PEX7	0.88877
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17260	P03410	Q5TA31	0.22235
17261	P03410	O00321	0.35954
17262	P03410	O60524	1.5936
17263	P03410	A6H8Y1	0.8595
17264	P03410	Q92791	0.28431
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17266	P03410	Q15651	1.3768
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17273	P03410	Q15004	1.0744
17274	P03410	Q15906	0.97447
17275	P03410	Q5TKA1	0.59312
17276	P03410	Q9Y2B1	1.0913
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17282	P03410	P21953	0.24962
17283	P03410	P0C7M3	1.1653
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17285	P03410	Q9UF83	0.65157
17286	P03410	Q9UBU6	0.97881
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17361	P03410	Q8TF01	1.6158
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17363	P03410	P62280	1.2837
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17366	P03410	Q6NVH7	1.439
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17368	P03410	Q15040	0.6999
17369	P03410	Q9BSI4	1.1436
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17385	P03410	Q0VG73	1.6653
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17387	P03410	Q96CT7	0.2096
17388	P03410	Q6PK81	0.81024
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17397	P03410	A6NMP4	0.54655
17398	P03410	A6NH11	1.1087
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17408	P03410	Q9BQC6	1.9496
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17410	P03410	O60260	0.29031
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17418	P03410	Q8I WV7	0.5606
17419	P03410	Q6P2I3	0.596
17420	P03410	Q9P243	0.30908
17421	P03410	Q9BWK5	1.6468
17422	P03410	Q9P055	0.86518
17423	P03410	Q9UNH5	0.73719
17424	P03410	F8W1W9	0.4749
17425	P03410	Q96LY2	1.4946
17426	P03410	Q86UQ8	0.67552
17427	P03410	Q9ULL5	1.6653
17428	P03410	P31314	0.58198
17429	P03410	Q9BQB4	0.36228
17430	P03410	Q0P140	0.73414
17431	P03410	P57738	1.0992
17432	P03410	Q96CD0	0.85383
17433	P03410	Q9HCL3	1.0202
17434	P03410	Q9NV44	0.86476
17435	P03410	P0DKL9	1.5155
17436	P03410	Q6UWF5	1.6653
17437	P03410	Q9NYK5	0.77631
17438	P03410	O15239	0.71696
17439	P03410	P49716	0.39957
17440	P03410	Q6L9T8	1.0087
17441	P03410	Q15025	0.71641
17442	P03410	O00110	0.20557
17443	P03410	Q68DY1	1.0122
17444	P03410	Q04323	0.43313
17445	P03410	Q9UPX6	1.0913
17446	P03410	Q9P2A4	0.39754
17447	P03410	A8MTB1	1.6653
17448	P03410	Q9Y6U3	0.076836
17449	P03410	Q8TAX7	1.6653
17450	P03410	Q53FN2	0.9535
17451	P03410	P0C7I6	1.287
17452	P03410	P05060	0.7014
17453	P03410	Q9BUV0	1.4883
17454	P03410	Q9H0A8	1.2337
17455	P03410	Q06547	1.0818
17456	P03410	Q9NSU2	0.17716
17457	P03410	Q9HB21	0.30851
17458	P03410	P68036	0.4436
17459	P03410	O14490	0.51846
17460	P03410	Q8NEJ9	0.70932
17461	P03410	Q96ES7	0.33895
17462	P03410	Q70YC4	1.0766
17463	P03410	Q9P253	0.45101
17464	P03410	Q8N0W5	0.96474
17465	P03410	Q9H7X2	1.0913
17466	P03410	Q9UBF1	1.0247
17467	P03410	Q8TAV0	1.6158
17468	P03410	Q32NC0	0.72217
17469	P03410	Q86VI4	0.49943
17470	P03410	Q8WZ71	1.1282
17471	P03410	P14868	1.2148
17472	P03410	Q6UXQ8	1.6653
17473	P03410	Q9H7X3	0.7207
17474	P03410	Q5JT18	1.6653
17475	P03410	A2A368	0.14589
17476	P03410	Q9BYN8	1.8888
17477	P03410	Q7Z713	0.34399
17478	P03410	Q6DKI1	0.32994
17479	P03410	Q9BTP7	1.2671
17480	P03410	Q8IVG9	1.2391

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17483	P03410	Q6GMV2	0.54619
17484	P03410	A2RU49	0.38121
17485	P03410	Q9BRA2	0.67374
17486	P03410	Q5SVJ3	0.46096
17487	P03410	Q9GZL7	0.92032
17488	P03410	Q9BVC4	0.64339
17489	P03410	Q9H987	0.22746
17490	P03410	Q6ZR85	1.6653
17491	P03410	P61088	0.87157
17492	P03410	Q9H808	0.71114
17493	P03410	Q6YFQ2	0.15652
17494	P03410	Q86VY9	0.6506
17495	P03410	Q15059	1.1181
17496	P03410	Q96N21	1.2545
17497	P03410	O43432	0.037359
17498	P03410	Q13233	0.8169
17499	P03410	Q8WVH0	0.40446
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17501	P03410	Q14160	0.9251
17502	P03410	Q14442	0.25994
17503	P03410	Q96KQ4	1.109
17504	P03410	Q3KP66	1.9117
17505	P03410	Q96SD1	0.25421
17506	P03410	Q9P1G2	1.2464
17507	P03410	Q5JST6	1.0891
17508	P03410	Q14972	0.6124
17509	P03410	Q99684	0.46927
17510	P03410	P01215	0.70445
17511	P03410	Q9H3Q1	0.38207
17512	P03410	P43351	0.88252
17513	P03410	Q9H6Q4	0.61944
17514	P03410	O60664	0.99544
17515	P03410	Q9H9G7	0.99596
17516	P03410	Q6L8G8	1.6653
17517	P03410	Q15327	0.48698
17518	P03410	Q8NDZ6	0.7168
17519	P03410	Q7Z3B0	1.0913
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17521	P03410	O95997	0.83887
17522	P03410	P32519	1.1117
17523	P03410	Q9H2U2	0.43253
17524	P03410	Q9BYH8	0.47263
17525	P03410	Q8N7U7	0.66689
17526	P03410	Q96HA1	1.4495
17527	P03410	A6NEN9	0.15313
17528	P03410	Q9UIE0	0.80131
17529	P03410	Q6A162	0.78893
17530	P03410	P23193	1.0872
17531	P03410	Q96JE9	0.47689
17532	P03410	Q9NXP7	0.52722
17533	P03410	P30793	0.21418
17534	P03410	A3QJZ6	0.1568
17535	P03410	P19623	0.32786
17536	P03410	Q53GI3	0.71499
17537	P03410	Q96PS1	0.89048
17538	P03410	Q1AE95	0.79088
17539	P03410	Q9UKI3	0.44305
17540	P03410	Q96NU7	0.75529
17541	P03410	Q03468	0.36037
17542	P03410	Q5VWM6	1.3613
17543	P03410	Q8N7Q2	1.6653
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17545	P03410	Q99829	0.38296
17546	P03410	Q8NB42	1.0264
17547	P03410	Q9Y4P8	1.0367
17548	P03410	Q6XQN6	0.32468
17549	P03410	P55265	0.38821
17550	P03410	Q8WWC4	1.1379
17551	P03410	Q86X76	0.18627
17552	P03410	O60304	0.69672
17553	P03410	Q9BQ83	0.81602
17554	P03410	A6NEH8	0.89394
17555	P03410	Q9BT78	1.1584
17556	P03410	A5LHX3	0.53245

17557	P03410	Q6U7Q0	0.74466
17558	P03410	P15923	0.5101
17559	P03410	Q9HBV2	1.0913
17560	P03410	A5YM69	0.87102
17561	P03410	P22090	0.55816
17562	P03410	Q8N1V8	0.76081
17563	P03410	P26651	0.84783
17564	P03410	Q8IV31	0.777
17565	P03410	O00411	0.82595
17566	P03410	Q6UB98	0.49184
17567	P03410	Q9Y2V0	0.35545
17568	P03410	P05062	0.22209
17569	P03410	Q09FC8	0.80544
17570	P03410	Q06732	0.59461
17571	P03410	Q9Y3E0	0.50315
17572	P03410	Q9UMY4	0.44123
17573	P03410	Q6ZN19	0.66065
17574	P03410	Q8N808	1.1631
17575	P03410	Q9BVV6	1.6653
17576	P03410	P13639	0.32577
17577	P03410	Q6NUQ1	0.88935
17578	P03410	P0CW26	0.55606
17579	P03410	Q6ZU15	0.33506
17580	P03410	Q99607	1.0411
17581	P03410	Q4VC44	0.97898
17582	P03410	Q14DG7	0.87365
17583	P03410	P17025	0.80606
17584	P03410	Q03052	0.30956
17585	P03410	P52788	0.25489
17586	P03410	Q8N2H4	1.8136
17587	P03410	Q3LI72	1.6653
17588	P03410	Q9Y617	0.79003
17589	P03410	Q13045	1.1384
17590	P03410	Q8WWM7	0.8855
17591	P03410	Q6ZMV5	0.86077
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17594	P03410	Q9BYD6	1.5139
17595	P03410	P02538	1.1258
17596	P03410	Q52M93	0.63446
17597	P03410	O94850	0.87296
17598	P03410	A6NNL0	1.3673
17599	P03410	Q6ZVX7	0.92118
17600	P03410	Q9Y530	0.70929
17601	P03410	Q8NHR7	0.40073
17602	P03410	P61313	1.2786
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17604	P03410	B1AK76	1.4544
17605	P03410	Q69383	1.1462
17606	P03410	Q6NZY7	0.38207
17607	P03410	Q8WYQ5	0.75145
17608	P03410	Q9NXX6	0.55117
17609	P03410	Q9UIV1	1.0641
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17615	P03410	Q99615	0.97471
17616	P03410	Q9BXS6	1.4071
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17620	P03410	P62979	0.72365
17621	P03410	Q5XUX0	0.94144
17622	P03410	Q1ED39	1.757
17623	P03410	Q96EB1	1.1033
17624	P03410	Q8TBK2	0.70168
17625	P03410	Q9BY14	0.42963
17626	P03410	P54725	0.86083
17627	P03410	Q9UPW6	0.65473
17628	P03410	A6NDP7	0.69362
17629	P03410	Q9Y6M9	0.042124
17630	P03410	Q6ZSV7	0.60541
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17632	P03410	Q99613	0.90431

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17634	P03410	Q8NG57	0.63451
17635	P03410	Q96MZ4	0.061799
17636	P03410	P86791	0.60221
17637	P03410	Q9NPG3	1.0527
17638	P03410	C9JXX5	0.95938
17639	P03410	Q8TB33	0.74904
17640	P03410	Q9H4A6	0.8709
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17643	P03410	P38117	0.54149
17644	P03410	Q9NQW6	0.51301
17645	P03410	Q9H322	1.5696
17646	P03410	Q9NWS9	0.24502
17647	P03410	Q6NS38	0.68305
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17649	P03410	P43364	1.0663
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17662	P03410	Q53FE4	0.40822
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17688	P03410	P09467	0.2582
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17691	P03410	Q8TEX9	0.68714
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17696	P03410	Q14596	0.22939
17697	P03410	Q6ZUV0	0.18836
17698	P03410	Q5VUD6	0.8763
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17713	P03410	P56747	0.44906
17714	P03410	P51523	0.61902
17715	P03410	Q8IWS0	0.49071
17716	P03410	Q14188	0.67578
17717	P03410	A6NGC4	1.0913
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17719	P03410	F5H4B4	1.5219
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17724	P03410	Q05084	0.41189
17725	P03410	Q8NFD5	0.86497
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17728	P03410	Q8NC60	0.080306
17729	P03410	Q16617	1.0029
17730	P03410	Q9NR22	0.48022
17731	P03410	Q9H374	0.54655
17732	P03410	O43761	0.94894
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17815	P03410	Q9NS71	0.88356
17816	P03410	Q92585	1.0125
17817	P03410	Q9BQC3	1.5523
17818	P03410	Q9Y6X4	1.7604
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17822	P03410	Q96I85	1.6653
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17829	P03410	P36551	0.5235
17830	P03410	Q9UBV8	0.46375
17831	P03410	Q3MJ40	0.20311
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17847	P03410	O94925	0.56382
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17853	P03410	Q8WVV9	0.29764
17854	P03410	Q9H1K1	0.94858
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17856	P03410	P49770	0.34608
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17858	P03410	Q9BV87	0.81108
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17865	P03410	P0C879	1.6653
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17867	P03410	P41236	1.2137
17868	P03410	Q7RTU4	0.44898
17869	P03410	Q0ZLH3	0.64335
17870	P03410	P41002	1.0932
17871	P03410	Q56P42	0.34399
17872	P03410	Q9BV20	0.71477
17873	P03410	Q9H0C8	0.54945
17874	P03410	O14933	0.42429
17875	P03410	A8MTZ0	1.4607
17876	P03410	P07320	1.4001
17877	P03410	Q9BZI7	1.086
17878	P03410	Q15424	0.78813
17879	P03410	Q9H910	1.645
17880	P03410	Q8NFW9	0.40637
17881	P03410	Q9H009	0.54734
17882	P03410	A6NNC1	1.2342
17883	P03410	Q8IXM7	0.62596
17884	P03410	Q6P2D8	0.29129
17885	P03410	O15226	0.88702
17886	P03410	O15258	0.72221
17887	P03410	Q07666	0.45187
17888	P03410	A6NK58	0.52398
17889	P03410	Q5T1J6	0.3943
17890	P03410	Q8WVG1	0.18515
17891	P03410	Q15560	0.94504
17892	P03410	Q7Z4V5	0.15765
17893	P03410	Q9Y6F1	0.40319
17894	P03410	Q7Z434	0.37026
17895	P03410	Q9H7B2	1.2313
17896	P03410	Q9HCC9	0.62556
17897	P03410	Q9H8X3	0.16142
17898	P03410	Q5EE01	1.066
17899	P03410	Q9NRY6	0.4419
17900	P03410	Q6IV72	0.67818
17901	P03410	Q8N912	1.3285
17902	P03410	P17036	0.70939
17903	P03410	Q6IPM2	0.1757
17904	P03410	Q9NPC6	1.6965
17905	P03410	Q6UXQ4	1.6653
17906	P03410	Q96FV9	0.80949
17907	P03410	Q5T0J7	0.94526
17908	P03410	Q8N490	0.6871
17909	P03410	P07196	0.90636
17910	P03410	Q9BTV5	0.72316
17911	P03410	O00757	0.17306
17912	P03410	Q9H1A3	0.6999
17913	P03410	P53990	0.85462
17914	P03410	Q5QP74	1.6653
17915	P03410	Q8TC21	0.75121
17916	P03410	Q9BZL3	1.1007
17917	P03410	Q13884	1.0234
17918	P03410	Q8IXQ9	0.55452
17919	P03410	P60014	1.7937
17920	P03410	Q8N3R3	0.49283
17921	P03410	Q9NXE4	0.4885
17922	P03410	Q12904	0.17442
17923	P03410	Q6P387	0.9976
17924	P03410	Q8N6M3	1.0157
17925	P03410	Q96HQ2	1.7028
17926	P03410	O15273	0.14201
17927	P03410	O60826	1.2657
17928	P03410	Q9NX53	0.6999
17929	P03410	P38432	1.5493
17930	P03410	A6NFQ7	0.30793
17931	P03410	Q8N1K5	0.84709
17932	P03410	Q96NS8	0.45287
17933	P03410	P15408	0.53011
17934	P03410	Q9H1I8	0.78432
17935	P03410	Q86T23	0.17249
17936	P03410	Q53ET0	2.0967

17937	P03410	Q86SG4	0.14238
17938	P03410	P06703	0.2441
17939	P03410	Q96LV5	0.31671
17940	P03410	Q9UL45	0.26527
17941	P03410	Q8N2C9	0.6577
17942	P03410	O60303	0.52604
17943	P03410	P0CL80	0.508
17944	P03410	P55957	0.82178
17945	P03410	Q9HBL8	0.13602
17946	P03410	H3BQB6	1.5946
17947	P03410	Q5VYP0	1.0269
17948	P03410	A8K0S8	0.2823
17949	P03410	Q9NTW7	0.98837
17950	P03410	Q8WXE9	0.79736
17951	P03410	Q9BVV8	0.88922
17952	P03410	Q2M385	0.80955
17953	P03410	O60663	0.41362
17954	P03410	Q96G23	0.21761
17955	P03410	O75069	0.33166
17956	P03410	P51508	0.82417
17957	P03410	Q3MIS6	0.98524
17958	P03410	Q9H707	0.81641
17959	P03410	Q9H9R9	0.22861
17960	P03410	P23508	0.53339
17961	P03410	Q8WU76	0.1621
17962	P03410	A8MUI8	0.73891
17963	P03410	P33992	0.35737
17964	P03410	P0C7V6	1.2614
17965	P03410	F8WBI6	0.14694
17966	P03410	Q6PII5	0.65159
17967	P03410	Q7Z401	0.39495
17968	P03410	Q9H7C4	0.68581
17969	P03410	Q8ND83	1.8112
17970	P03410	Q9BRT2	0.54535
17971	P03410	A6NHX0	1.3563
17972	P03410	Q5VU69	0.96422
17973	P03410	Q96SR6	0.82417
17974	P03410	Q5TEC3	0.78521
17975	P03410	Q9Y2X3	0.77343
17976	P03410	Q8IVU9	0.27185
17977	P03410	Q9UMZ2	0.27806
17978	P03410	Q9NP66	0.84708
17979	P03410	Q9BYR4	1.9984
17980	P03410	Q8N9R0	1.6653
17981	P03410	Q13158	0.64287
17982	P03410	Q6UWF9	0.79568
17983	P03410	Q96QD9	1.0676
17984	P03410	Q9UQ35	1.0784
17985	P03410	B4DXR9	0.99633
17986	P03410	O43264	0.82453
17987	P03410	Q9NUG6	0.14771
17988	P03410	Q6ZP98	1.1863
17989	P03410	Q8NEP9	0.92179
17990	P03410	Q9UJJ7	0.63983
17991	P03410	Q14693	0.27668
17992	P03410	P23919	0.87227
17993	P03410	Q6UWD8	0.65315
17994	P03410	Q6VMQ6	1.5572
17995	P03410	M0R1G4	0.062582
17996	P03410	O15231	0.15515
17997	P03410	Q9BZV1	1.1401
17998	P03410	Q8TCG1	0.096673
17999	P03410	Q8N1F7	0.8551
18000	P03410	Q8WUW1	0.50232
18001	P03410	Q156A1	1.6653
18002	P03410	P62750	0.98685
18003	P03410	O75569	0.35504
18004	P03410	Q8N112	0.96496
18005	P03410	P42765	0.20318
18006	P03410	P81408	1.0975
18007	P03410	P0CG29	0.30366
18008	P03410	P13073	0.78062
18009	P03410	O75486	1.019
18010	P03410	Q96A22	0.68816
18011	P03410	O95171	0.31636
18012	P03410	Q96GT9	1.2681

18013	P03410	Q92575	1.1213
18014	P03410	Q9BQ66	1.9984
18015	P03410	A6NIH7	0.79853
18016	P03410	Q8WUI4	0.40267
18017	P03410	Q5JUW0	0.87221
18018	P03410	O00559	0.48712
18019	P03410	P17544	0.9359
18020	P03410	Q6PP77	1.2132
18021	P03410	Q9NZ42	0.73376
18022	P03410	Q96MF7	0.56334
18023	P03410	P0C7T8	1.0913
18024	P03410	Q5SVQ8	0.88499
18025	P03410	Q16670	0.6841
18026	P03410	P35659	0.6684
18027	P03410	Q9NSD9	1.1997
18028	P03410	Q9H074	0.52909
18029	P03410	Q2M329	0.60792
18030	P03410	Q9C005	0.62928
18031	P03410	O95249	0.014043
18032	P03410	Q8IZT6	0.47914
18033	P03410	Q8NAP1	1.4883
18034	P03410	P46926	0.087604
18035	P03410	P50452	0.74091
18036	P03410	Q6ZV50	0.41575
18037	P03410	Q96EY7	0.1972
18038	P03410	Q969W3	1.7716
18039	P03410	Q16576	0.33111
18040	P03410	O60381	0.24596
18041	P03410	Q6ZRN7	1.6653
18042	P03410	O60930	0.73641
18043	P03410	Q96BJ3	0.957
18044	P03410	O60783	1.3376
18045	P03410	Q9BY32	0.84651
18046	P03410	P50549	0.77266
18047	P03410	Q8WXI4	0.098298
18048	P03410	Q7Z7K0	0.46284
18049	P03410	H0YKK7	1.5003
18050	P03410	Q5T089	0.0039504
18051	P03410	O14841	0.81206
18052	P03410	Q96JB5	0.59297
18053	P03410	Q9GZS3	1.0663
18054	P03410	Q9BWF2	0.36107
18055	P03410	Q86UW6	0.35971
18056	P03410	Q6ZR93	1.6653
18057	P03410	Q9Y5P3	0.56835
18058	P03410	Q5EBL2	0.65248
18059	P03410	Q7Z7K6	1.2052
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18061	P03410	P82664	1.7659
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18064	P03410	Q15700	0.40919
18065	P03410	Q9H8W3	0.80585
18066	P03410	Q2M2I3	0.062703
18067	P03410	Q8N6S5	1.1813
18068	P03410	Q8NEW7	0.93824
18069	P03410	Q9NQY0	0.52525
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18072	P03410	Q96M42	0.58484
18073	P03410	Q9H8M2	0.19609
18074	P03410	Q9P1Z9	0.86734
18075	P03410	O75503	0.57206
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18077	P03410	P22234	0.49121
18078	P03410	P17010	0.36309
18079	P03410	Q969K4	0.28073
18080	P03410	Q8N1G0	0.2267
18081	P03410	Q8N6Y0	1.0134
18082	P03410	Q5HYL7	1.1653
18083	P03410	Q96I34	0.46939
18084	P03410	Q9Y5K6	0.4484
18085	P03410	Q96E11	1.715
18086	P03410	Q9GZV5	0.99275
18087	P03410	Q9UH36	0.80829
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18090	P03410	Q8N8K9	0.3976
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18093	P03410	O60759	0.66849
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18095	P03410	Q9UQR1	0.75339
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18097	P03410	P0CZ25	0.62862
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18099	P03410	Q9BQJ4	1.3329
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18102	P03410	Q6NW29	0.62614
18103	P03410	Q9UQL6	0.44046
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18105	P03410	Q96MG7	0.83653
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18107	P03410	O95295	0.56823
18108	P03410	Q96D70	1.6471
18109	P03410	O95347	0.4395
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18114	P03410	Q6XD76	0.31824
18115	P03410	Q8IVG5	0.069293
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18124	P03410	Q9HBZ2	0.24779
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18126	P03410	Q5RL73	0.43332
18127	P03410	Q9NX55	0.60065
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18129	P03410	Q9H7N4	1.591
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18207	P03410	Q8N9L7	0.72592
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18215	P03410	Q96HB5	0.76904
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18311	P03410	Q9UM54	0.11455
18312	P03410	Q8N8Z3	0.52862
18313	P03410	P33316	0.74831
18314	P03410	Q9H790	0.44399
18315	P03410	Q15599	0.66395
18316	P03410	Q5K131	0.52932

18317	P03410	Q6ZN06	0.95938
18318	P03410	Q9UHT9	1.6653
18319	P03410	A8MQB3	0.49035
18320	P03410	Q9UHB7	1.2457
18321	P03410	Q96BV0	0.59395
18322	P03410	Q14590	0.6829
18323	P03410	O95158	0.87371
18324	P03410	O75151	0.48575
18325	P03410	Q9UHJ9	1.0193
18326	P03410	Q96B36	1.6774
18327	P03410	Q15628	0.81071
18328	P03410	Q9HC16	0.20325
18329	P03410	Q9H2H8	0.33677
18330	P03410	Q902F8	1.1446
18331	P03410	A6NCW3	1.2555
18332	P03410	Q06323	1.3685
18333	P03410	Q9UK10	0.79465
18334	P03410	Q9BRT7	1.6653
18335	P03410	Q5TZK3	0.2149
18336	P03410	Q9BUG6	0.52321
18337	P03410	O95425	0.085959
18338	P03410	P62277	1.2546
18339	P03410	Q15371	0.86949
18340	P03410	Q8IZH2	0.29331
18341	P03410	Q7L8J4	0.77627
18342	P03410	Q5T0F9	0.55712
18343	P03410	O60563	1.5585
18344	P03410	Q8NEK8	1.414
18345	P03410	Q13127	0.39916
18346	P03410	Q8N1N2	1.4135
18347	P03410	Q3ZCV2	1.4883
18348	P03410	Q8WXB4	0.67112
18349	P03410	Q8NHV4	1.0774
18350	P03410	Q96MW5	0.38858
18351	P03410	Q8NI28	0.75446
18352	P03410	O60308	0.83152
18353	P03410	Q9NX24	0.25964
18354	P03410	P0CG42	1.6653
18355	P03410	Q86YS3	0.39181
18356	P03410	P17022	0.46379
18357	P03410	Q96GE5	0.94919
18358	P03410	O60333	0.26312
18359	P03410	Q5SXM1	0.88569
18360	P03410	Q9NWD8	0.67444
18361	P03410	O43318	0.84996
18362	P03410	Q86TU6	1.8796
18363	P03410	Q8NEH6	1.4517
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18365	P03410	Q9UKT9	0.39189
18366	P03410	Q9H1L0	1.7243
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18369	P03410	Q15032	0.46946
18370	P03410	O15525	0.40117
18371	P03410	Q7Z5Q5	0.38414
18372	P03410	Q16829	0.52002
18373	P03410	Q4VXA5	0.85912
18374	P03410	P25800	0.29844
18375	P03410	Q8N4B4	0.31319
18376	P03410	P08651	0.39144
18377	P03410	P60673	0.48082
18378	P03410	Q92624	1.3796
18379	P03410	Q9Y4H4	1.4726
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18381	P03410	Q9HCS7	0.50089
18382	P03410	Q7Z5V6	0.86197
18383	P03410	Q86WZ0	1.3768
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18385	P03410	Q9NTU4	1.3117
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18390	P03410	A2IDD5	0.9548
18391	P03410	O94906	0.32494
18392	P03410	Q8IZL2	0.9995

18393	P03410	Q13136	0.5178
18394	P03410	O95848	1.3672
18395	P03410	Q93100	0.82983
18396	P03410	Q15583	0.32143
18397	P03410	Q7L5N1	1.3176
18398	P03410	Q9GZU3	1.6533
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18402	P03410	Q5VWP2	0.4146
18403	P03410	Q9BUK6	0.306
18404	P03410	Q70IA8	0.18173
18405	P03410	Q9Y676	1.4249
18406	P03410	Q8NE86	0.64139
18407	P03410	P36578	1.2011
18408	P03410	Q9UGP5	0.2934
18409	P03410	Q9UMX0	1.0238
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18411	P03410	Q8N1G4	0.62496
18412	P03410	Q9BYD1	1.7652
18413	P03410	Q8N201	0.68895
18414	P03410	O43715	0.99196
18415	P03410	Q8WU49	1.6653
18416	P03410	Q86X02	0.44597
18417	P03410	P41161	0.25951
18418	P03410	P61573	1.1462
18419	P03410	Q8IYE0	1.4251
18420	P03410	P17029	0.84739
18421	P03410	Q7L3S4	0.77956
18422	P03410	Q96M85	1.6653
18423	P03410	Q8IVP9	0.63916
18424	P03410	Q9UBZ9	0.48531
18425	P03410	P22557	0.21335
18426	P03410	Q86TL0	0.55652
18427	P03410	Q9UMR2	0.30975
18428	P03410	P18077	0.72038
18429	P03410	A6NIX2	1.0319
18430	P03410	O75600	0.11663
18431	P03410	Q86XI6	0.30851
18432	P03410	Q9BT04	1.118
18433	P03410	Q8WYR4	0.43881
18434	P03410	O95571	0.65159
18435	P03410	Q92988	0.50842
18436	P03410	Q3MIV0	1.6653
18437	P03410	Q8N614	0.70848
18438	P03410	Q9BSF4	0.52164
18439	P03410	Q5MJ10	1.5851
18440	P03410	Q9BYD9	0.42594
18441	P03410	Q9NS25	1.6831
18442	P03410	Q7Z7J5	1.2102
18443	P03410	Q9UNQ2	0.9588
18444	P03410	Q9UJA5	1.604
18445	P03410	Q0P670	1.5437
18446	P03410	P12956	0.31552
18447	P03410	Q6VN20	0.48403
18448	P03410	A0ZSE6	0.9149
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18450	P03410	Q96LM1	1.2185
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18452	P03410	O76031	1.043
18453	P03410	Q96MC4	1.9477
18454	P03410	O95866	1.1982
18455	P03410	Q8N999	1.0924
18456	P03410	Q96AT1	1.4883
18457	P03410	Q96A59	1.2078
18458	P03410	Q9NPA8	0.48411
18459	P03410	Q9C035	0.56963
18460	P03410	Q9UNE7	0.23018
18461	P03410	Q8N823	0.79465
18462	P03410	Q5T7W7	1.4883
18463	P03410	Q12986	0.21125
18464	P03410	Q8N766	0.7443
18465	P03410	P24385	0.88552
18466	P03410	Q9Y3E7	1.062
18467	P03410	Q9Y3P8	0.97135
18468	P03410	Q9UDY2	1.2863



18469	P03410	Q8IZN7	0.92904
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18471	P03410	Q99990	0.67767
18472	P03410	Q9Y2W2	1.5564
18473	P03410	Q5VWM5	1.1303
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18475	P03410	P0DI81	1.1051
18476	P03410	Q9BTV4	0.85342
18477	P03410	P07910	0.3269
18478	P03410	Q9Y4W2	1.5928
18479	P03410	Q9H3F6	0.39138
18480	P03410	A8MUQ0	1.3804
18481	P03410	Q7Z340	0.75755
18482	P03410	Q9UBZ4	0.036616
18483	P03410	Q8TB69	0.96412
18484	P03410	Q86UD1	0.51339
18485	P03410	Q5H9L4	0.33768
18486	P03410	P42166	0.51669
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18488	P03410	P08579	0.30045
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18492	P03410	Q8WZ33	0.88066
18493	P03410	Q9Y6Z4	0.76299
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18495	P03410	Q6ZRS2	0.36515
18496	P03410	Q96H40	0.92169
18497	P03410	Q86UT6	0.36123
18498	P03410	O95551	0.71399
18499	P03410	P41227	0.41987
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18503	P03410	Q13618	0.4296
18504	P03410	Q9P0M2	0.21976
18505	P03410	P0CJ76	1.4876
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18507	P03410	Q5VT33	0.78403
18508	P03410	Q9BXI3	0.41616
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18514	P03410	Q8IZW8	0.85052
18515	P03410	Q93052	0.51414
18516	P03410	O14734	0.72324
18517	P03410	Q6R2W3	0.56406
18518	P03410	Q3KQV3	0.81355
18519	P03410	Q9P031	1.6162
18520	P03410	Q14715	0.20843
18521	P03410	Q9NPNB8	0.062492
18522	P03410	Q8WV24	1.0917
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18524	P03410	O00154	0.015886
18525	P03410	Q96MP8	0.42699
18526	P03410	Q9BWT6	0.14926
18527	P03410	Q86V42	1.056
18528	P03410	P17098	1.0155
18529	P03410	Q8WUX9	0.6478
18530	P03410	Q96LL3	1.297
18531	P03410	Q92793	0.34151
18532	P03410	O95905	0.79594
18533	P03410	C9JLW8	0.97389
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18535	P03410	Q9NQ4	0.32899
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18537	P03410	Q9BVK6	0.36156
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18539	P03410	Q9NWQ4	1.3622
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18552	P03410	Q6P1R3	0.77205
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18554	P03410	P29474	0.87542
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18557	P03410	H0YL14	1.4551
18558	P03410	Q8NA96	1.1653
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18561	P03410	P35251	0.74454
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18564	P03410	C9J6K1	0.86271
18565	P03410	Q8TEV8	1.6653
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18567	P03410	Q14576	0.68396
18568	P03410	Q8N205	1.0045
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18587	P03410	Q63HM1	0.71422
18588	P03410	Q8N0U7	0.90509
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18595	P03410	Q9BWM5	0.81377
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18603	P03410	Q6NUN9	0.72582
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18605	P03410	Q05519	0.9699
18606	P03410	Q9UJ68	0.41053
18607	P03410	Q9P2D6	0.17758
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18612	P03410	Q8TE85	0.24982
18613	P03410	Q8IY57	0.9455
18614	P03410	Q9ULK4	1.2708
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18616	P03410	P48775	0.50581
18617	P03410	B1ANY3	0.77616
18618	P03410	Q9H8Y8	0.77637
18619	P03410	Q96DR8	0.9256
18620	P03410	A6NJY4	1.6653

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18623	P03410	Q13287	0.61024
18624	P03410	Q9Y2F5	0.32464
18625	P03410	Q9BXV9	1.6653
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18627	P03410	Q9Y448	1.071
18628	P03410	Q9H8M1	0.52423
18629	P03410	Q9Y234	0.60574
18630	P03410	A8MWA4	0.98395
18631	P03410	P09972	0.66718
18632	P03410	Q3KNT7	0.35754
18633	P03410	Q9H814	1.7104
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18635	P03410	Q495D7	0.57134
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18642	P03410	Q6N069	0.24586
18643	P03410	Q9Y2Q1	0.98093
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18645	P03410	Q3KNS6	0.70364
18646	P03410	Q9NXE8	1.0349
18647	P03410	Q6ZS49	1.6653
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18652	P03410	P63098	0.22805
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18714	P03410	Q9UM82	1.6745
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18717	P03410	Q96BN2	1.4176
18718	P03410	P61571	0.89339
18719	P03410	Q9NW08	0.14142
18720	P03410	Q96P15	0.19809
18721	P03410	Q15369	1.4183
18722	P03410	Q9BV97	0.66822
18723	P03410	Q99623	1.2029
18724	P03410	Q5VX52	0.34433
18725	P03410	P0CW24	0.38853
18726	P03410	Q8WZ26	0.6634
18727	P03410	Q6ZRT6	1.4883
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18734	P03410	Q8TEB1	0.51567
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18742	P03410	P17026	0.66742
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18747	P03410	P0CG43	1.6653
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18754	P03410	Q69YN4	0.67519
18755	P03410	Q01538	0.36781
18756	P03410	Q8IUC1	0.71041
18757	P03410	Q96KR7	0.76037
18758	P03410	A8MZ59	0.2823
18759	P03410	P07951	0.033227
18760	P03410	O75396	0.66007
18761	P03410	O95999	0.3175
18762	P03410	P51397	1.1643
18763	P03410	Q96BY9	0.32265
18764	P03410	F2Z3M2	1.6653
18765	P03410	P61570	1.1647
18766	P03410	Q8NAJ2	0.30819
18767	P03410	Q9UKS6	0.48305
18768	P03410	P15502	1.0012
18769	P03410	Q92782	0.57539
18770	P03410	I3L1E1	0.95928
18771	P03410	Q8IXM2	0.27311
18772	P03410	Q8NF67	0.90864

18773	P03410	P49773	0.076205
18774	P03410	Q8TAT2	0.77064
18775	P03410	Q9BX26	1.749
18776	P03410	Q9NTJ4	0.32717
18777	P03410	Q9BS31	0.64747
18778	P03410	Q99459	0.93726
18779	P03410	Q15555	0.36411
18780	P03410	Q9NQ55	0.61669
18781	P03410	Q9Y608	0.46744
18782	P03410	Q9UM11	1.2975
18783	P03410	Q8NFC6	1.5331
18784	P03410	Q14511	0.9975
18785	P03410	O75400	1.0061
18786	P03410	O95298	1.2759
18787	P03410	Q16649	0.20401
18788	P03410	P12270	0.79365
18789	P03410	Q8WWQ0	0.71769
18790	P03410	P21399	0.46199
18791	P03410	Q9HBM6	0.72949
18792	P03410	P38936	0.32885
18793	P03410	Q9ULE4	0.90822
18794	P03410	Q5MJ09	0.51657
18795	P03410	Q6ICB0	1.3348
18796	P03410	Q6EKJ0	0.22671
18797	P03410	Q9UN36	0.36858
18798	P03410	Q9UIL8	0.36494
18799	P03410	Q6P2H3	0.83781
18800	P03410	Q92769	0.38722
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18802	P03410	O43513	1.2205
18803	P03410	Q9NWS6	1.0302
18804	P03410	Q96FX8	1.2551
18805	P03410	Q02386	0.66023
18806	P03410	C9JDP6	0.64164
18807	P03410	Q8NEA6	0.24335
18808	P03410	P12882	0.25332
18809	P03410	Q9Y4A5	0.76754
18810	P03410	Q9BPY3	0.40016
18811	P03410	Q96KG9	0.32145
18812	P03410	Q9NRL2	0.96912
18813	P03410	Q9H4K1	1.0034
18814	P03410	Q9Y376	0.31567
18815	P03410	Q15691	0.92112
18816	P03410	Q9BWX5	0.26495
18817	P03410	Q68CZ2	0.73803
18818	P03410	O94805	0.6915
18819	P03410	P58512	1.4669
18820	P03410	P0CG31	0.75111
18821	P03410	P43243	0.26114
18822	P03410	P0DJ07	1.1965
18823	P03410	Q8NEV8	0.30879
18824	P03410	Q9BU61	0.98757
18825	P03410	P04731	0.83308
18826	P03410	Q499Z3	0.71071
18827	P03410	Q5T3I0	0.20674
18828	P03410	Q96JM7	0.37631
18829	P03410	Q13042	1.5455
18830	P03410	O43172	0.6895
18831	P03410	Q96E40	0.16794
18832	P03410	Q9UK12	0.81145
18833	P03410	Q96GY3	0.95273
18834	P03410	Q9NVR7	0.53954
18835	P03410	Q8N9Z9	0.95539
18836	P03410	Q9HOR8	0.56661
18837	P03410	Q6ZVN8	0.52961
18838	P03410	P52737	0.79497
18839	P03410	Q9BW85	1.5317
18840	P03410	Q9NSG2	1.2047
18841	P03410	P48454	0.27842
18842	P03410	P26038	0.31592
18843	P03410	P0CG13	0.30063
18844	P03410	A0PK05	0.78375
18845	P03410	Q969M3	0.44427
18846	P03410	Q96NT3	0.72838
18847	P03410	Q96I27	0.71807
18848	P03410	Q7Z398	0.76183

18849	P03410	Q5TGP6	0.12523
18850	P03410	P35908	0.68428
18851	P03410	Q9BSH3	0.36374
18852	P03410	Q13342	0.54581
18853	P03410	O43236	0.40738
18854	P03410	O95996	0.59067
18855	P03410	Q68D10	1.4883
18856	P03410	Q9Y6B2	0.8933
18857	P03410	Q15437	0.78628
18858	P03410	Q9UIL1	1.038
18859	P03410	Q8WXX3	0.25857
18860	P03410	Q5VTU8	0.48502
18861	P03410	O75915	0.84732
18862	P03410	P52435	0.67527
18863	P03410	Q9P1J3	1.6653
18864	P03410	Q9NRJ2	1.6653
18865	P03410	P45985	0.24504
18866	P03410	Q86T75	1.289
18867	P03410	Q5SQS8	1.344
18868	P03410	Q96EL3	0.49843
18869	P03410	Q8NA58	0.76206
18870	P03410	O14508	0.34854
18871	P03410	Q8N5A5	0.72086
18872	P03410	O75438	0.35317
18873	P03410	Q9NPI0	0.87881
18874	P03410	Q92797	1.0213
18875	P03410	Q8N2Y8	0.22961
18876	P03410	Q13309	0.67045
18877	P03410	Q9NUU7	0.3254
18878	P03410	Q5TGS1	0.52912
18879	P03410	Q13522	0.40628
18880	P03410	Q17RB0	0.97842
18881	P03410	Q6ZUJ8	0.25365
18882	P03410	Q96G27	1.0975
18883	P03410	P43362	0.2347
18884	P03410	P62826	0.7585
18885	P03410	Q9H489	0.53274
18886	P03410	Q9C010	1.4108
18887	P03410	Q7Z2X4	0.30261
18888	P03410	O60225	0.35782
18889	P03410	Q6PEV8	0.15039
18890	P03410	A6NCD4	0.86954
18891	P03410	P62273	1.619
18892	P03410	O00629	0.75029
18893	P03410	A6NFC5	1.1445
18894	P03410	P26639	0.76571
18895	P03410	Q96E16	1.2321
18896	P03410	Q8IY92	0.5773
18897	P03410	P59051	1.0799
18898	P03410	O95602	0.58115
18899	P03410	Q9UPZ3	1.0299
18900	P03410	Q8TAG9	0.19462
18901	P03410	Q86XN7	1.4883
18902	P03410	Q8NEQ5	0.66098
18903	P03410	O60684	0.58714
18904	P03410	Q8NBD8	1.154
18905	P03410	P17535	0.94697
18906	P03410	Q9NRX2	1.23
18907	P03410	Q9UDW1	0.39761
18908	P03410	Q496A3	0.616
18909	P03410	O94913	0.47462
18910	P03410	Q13278	1.4864
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18912	P03410	O14558	0.95729
18913	P03410	Q8N972	0.79465
18914	P03410	Q96B70	0.50384
18915	P03410	I6L899	0.2002
18916	P03410	Q5J TZ5	0.26947
18917	P03410	Q3ZCQ8	0.2571
18918	P03410	O43261	0.6999
18919	P03410	Q8IUR0	1.5692
18920	P03410	Q49AG3	1.0618
18921	P03410	A6NLC8	1.4469
18922	P03410	Q4W5G0	0.70588
18923	P03410	Q96HH6	1.0913
18924	P03410	Q9H492	0.46119

18925	P03410	Q9UHQ1	1.1243
18926	P03410	O43502	0.26421
18927	P03410	Q9P0R6	0.64384
18928	P03410	P62140	0.73592
18929	P03410	P35663	0.60562
18930	P03410	P07738	0.96581
18931	P03410	Q9BQ49	1.0913
18932	P03410	P09132	0.44689
18933	P03410	C9JC47	1.6653
18934	P03410	O43491	0.51481
18935	P03410	Q9Y294	1.0544
18936	P03410	O94842	0.80528
18937	P03410	Q9BYC8	1.3965
18938	P03410	P02489	0.36572
18939	P03410	Q9BS40	0.49241
18940	P03410	Q7Z3I7	0.78003
18941	P03410	Q6ZN79	0.88895
18942	P03410	O00264	0.073859
18943	P03410	Q96N76	0.41754
18944	P03410	Q15170	2.0626
18945	P03410	P15170	0.33604
18946	P03410	Q9P2D1	0.18629
18947	P03410	Q60739	0.6164
18948	P03410	Q9NPE6	0.24758
18949	P03410	Q6P9G9	0.70056
18950	P03410	E9PQ53	1.3979
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18952	P03410	P0C6E6	0.39375
18953	P03410	Q8WYN3	0.97715
18954	P03410	Q96CX2	0.25004
18955	P03410	Q8N163	0.84404
18956	P03410	Q8IU53	1.4849
18957	P03410	Q96DE9	0.31121
18958	P03410	Q5T280	1.7826
18959	P03410	Q9UGK8	0.79193
18960	P03410	Q9Y2G1	0.34424
18961	P03410	Q2VWA4	0.10041
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18963	P03410	P18545	0.6307
18964	P03410	P0CG08	0.86829
18965	P03410	Q6PDB4	1.0114
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18969	P03410	P51959	0.59922
18970	P03410	Q96CM4	0.31355
18971	P03410	P17028	0.70249
18972	P03410	Q8N883	0.73633
18973	P03410	Q96G28	0.63309
18974	P03410	Q8WWZ8	0.24073
18975	P03410	Q49A33	0.98227
18976	P03410	Q8NCK3	0.7682
18977	P03410	Q7L4S7	0.72156
18978	P03410	A6NI87	0.90573
18979	P03410	Q9NYU1	0.40331
18980	P03410	Q9NQM4	0.21587
18981	P03410	Q9BUN8	0.47491
18982	P03410	Q86YV9	1.5915
18983	P03410	Q8N4P2	0.3808
18984	P03410	Q6SJ96	0.33706
18985	P03410	Q9BW30	0.51121
18986	P03410	Q9BXM8	1.6653
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18993	P03410	Q86X53	0.36456
18994	P03410	Q9BPU9	0.43241
18995	P03410	O15287	1.1881
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19002	P03410	Q9BQI6	0.39549
19003	P03410	Q5SZL2	0.57417
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19005	P03410	Q15942	0.48297
19006	P03410	P52597	0.44027
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19008	P03410	P53805	0.57697
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19013	P03410	Q8IZM0	0.89104
19014	P03410	Q8NAP3	0.3043
19015	P03410	Q3LI59	1.6653
19016	P03410	Q9UNY5	0.79031
19017	P03410	A6NIN4	1.6653
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19019	P03410	Q5TA82	1.6653
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19028	P03410	Q5VWN6	0.57234
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19030	P03410	P08107	0.53363
19031	P03410	Q9Y3S2	0.75928
19032	P03410	P52298	0.62417
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19034	P03410	P62081	1.1988
19035	P03410	Q9Y3C5	0.39359
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19038	P03410	Q16514	0.74395
19039	P03410	Q96JN2	0.9877
19040	P03410	P28347	0.94682
19041	P03410	P0CL82	0.508
19042	P03410	Q9HA82	0.63139
19043	P03410	Q9NV29	0.97067
19044	P03410	Q16637	0.97209
19045	P03410	P46783	1.4523
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19052	P03410	Q9BXL7	0.24032
19053	P03410	Q6PJP8	0.76554
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19057	P03410	Q32MQ0	1.0532
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19059	P03410	Q9H6F5	0.57933
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19065	P03410	P25063	1.6653
19066	P03410	Q68DY9	0.85321
19067	P03410	Q5VT40	0.94825
19068	P03410	P61574	1.1462
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19086	P03410	Q96ED9	0.84724
19087	P03410	P52743	0.90046
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19093	P03410	Q3LHN1	1.6653
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19097	P03410	Q8TBZ9	1.6684
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19100	P03410	Q8TAI1	1.3774
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19103	P03410	Q96I23	0.58423
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19105	P03410	P08697	0.22524
19106	P03410	O14513	0.92154
19107	P03410	Q8NEZ5	0.60575
19108	P03410	Q6IN84	0.62379
19109	P03410	Q8TD47	0.45192
19110	P03410	Q9UK28	1.1582
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19112	P03410	Q96QU4	1.8316
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19115	P03410	Q969P5	0.17249
19116	P03410	P17275	0.85287
19117	P03410	P62256	0.40985
19118	P03410	Q9UKZ1	1.5859
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19120	P03410	Q8TBY8	1.1358
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19122	P03410	Q8IY50	0.96368
19123	P03410	Q6L8H2	1.6653
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19125	P03410	Q5SW24	0.46891
19126	P03410	Q00597	0.99689
19127	P03410	O15527	0.56065
19128	P03410	Q9NQR1	0.57625
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19130	P03410	Q9NWB7	0.88004
19131	P03410	Q12772	0.23752
19132	P03410	Q8IZS5	0.8956
19133	P03410	Q9BYP9	1.9984
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19136	P03410	C9J302	0.8204
19137	P03410	O15155	0.51035
19138	P03410	P62314	0.89985
19139	P03410	Q9BYJ9	0.88339
19140	P03410	Q68G75	0.49347
19141	P03410	Q13330	0.4019
19142	P03410	Q3KRA6	1.8909
19143	P03410	Q2KHT3	1.4353
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19145	P03410	Q9ULV3	0.47566
19146	P03410	Q75NE6	2.0731
19147	P03410	Q969G5	0.7377
19148	P03410	Q16621	0.31461
19149	P03410	Q9BTW9	0.47157
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19156	P03410	P0CW71	1.6653
19157	P03410	O00463	0.37285
19158	P03410	P60369	1.9984
19159	P03410	Q86WC4	1.5232
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19161	P03410	Q86SQ9	0.23906
19162	P03410	Q92990	0.61399
19163	P03410	P49848	0.65209
19164	P03410	Q8WZ82	0.096948
19165	P03410	P52736	0.6971
19166	P03410	Q5T681	1.4895
19167	P03410	O43660	0.31092
19168	P03410	Q92973	1.3067
19169	P03410	Q9UPA5	0.49769
19170	P03410	Q9BUH8	0.79738
19171	P03410	P07954	0.20725
19172	P03410	Q9BW60	0.86335
19173	P03410	Q86UR1	0.30829
19174	P03410	A6NGD5	0.57102
19175	P03410	Q9UGR2	0.71172
19176	P03410	Q8N655	1.6653
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19178	P03410	Q9NYJ8	0.88304
19179	P03410	Q7Z745	1.0105
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19181	P03410	P0CI00	1.093
19182	P03410	Q9UHV3	0.51441
19183	P03410	Q7RTU9	0.3193
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19185	P03410	A8MV81	0.99677
19186	P03410	Q6NT04	0.58789
19187	P03410	O14561	0.67201
19188	P03410	Q96D71	0.30953
19189	P03410	Q96BN6	0.57197
19190	P03410	Q9UBC1	0.73881
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19192	P03410	Q96LT7	1.2395
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19195	P03410	A6NGY1	1.5377
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19197	P03410	P0CJ89	0.27528
19198	P03410	Q7Z2W4	0.60114
19199	P03410	Q9ULD2	0.7268
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19203	P03410	O75800	0.64825
19204	P03410	Q86XF0	0.32623
19205	P03410	Q9UKY0	0.34442
19206	P03410	Q8IVN3	1.6658
19207	P03410	Q5T5J6	1.0312
19208	P03410	Q9ULG3	1.6653
19209	P03410	Q9Y5Z7	0.63037
19210	P03410	Q8TDC0	0.87815
19211	P03410	Q9BRX2	0.3575
19212	P03410	Q8TAK5	0.62448
19213	P03410	Q9NWX4	1.1417
19214	P03410	P25208	0.70711
19215	P03410	Q6NVV1	0.77524
19216	P03410	Q8N187	1.3223
19217	P03410	Q6ZR62	0.22127
19218	P03410	Q96BZ8	1.4883
19219	P03410	Q9Y2T2	1.0019
19220	P03410	Q8N9S7	0.78333
19221	P03410	Q9BXX3	0.27664
19222	P03410	Q9NP61	0.10013
19223	P03410	Q9HBF5	1.4094
19224	P03410	P62324	0.76299
19225	P03410	P14927	0.16084
19226	P03410	Q86UY6	0.364
19227	P03410	Q96AH0	0.83956
19228	P03410	Q9UHZ2	1.6653

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19230	P03410	P51815	0.57594
19231	P03410	Q6ZW54	1.6327
19232	P03410	P60602	1.0371
19233	P03410	Q86YA3	1.746
19234	P03410	O96007	1.2991
19235	P03410	P00338	0.69158
19236	P03410	P60329	0.53228
19237	P03410	Q9NXR8	0.23713
19238	P03410	P0CJ68	1.4876
19239	P03410	Q9H9L7	0.41305
19240	P03410	P04553	1.6653
19241	P03410	O14613	0.38117
19242	P03410	A1L429	0.508
19243	P03410	Q5TZA2	1.0274
19244	P03410	Q13371	0.53771
19245	P03410	Q9UN37	0.64014
19246	P03410	O95163	0.59964
19247	P03410	A6NK53	0.84221
19248	P03410	O95271	0.6782
19249	P03410	Q14D33	0.80531
19250	P03410	Q9BQW3	0.15485
19251	P03410	Q96A65	0.34371
19252	P03410	Q5D1E8	0.98922
19253	P03410	Q5T8A7	1.7091
19254	P03410	Q9BR77	0.72855
19255	P03410	Q9Y678	0.83283
19256	P03410	Q8NFB5	0.78283
19257	P03410	P51587	0.17316
19258	P03410	Q15056	0.48873
19259	P03410	O14604	1.3071
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19261	P03410	Q96M19	1.6653
19262	P03410	O43482	0.77488
19263	P03410	Q14872	0.69271
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19265	P03410	P11802	0.88014
19266	P03410	O75362	0.77062
19267	P03410	Q86SH4	1.6653
19268	P03410	Q9UJW8	0.70757
19269	P03410	Q96K83	0.65426
19270	P03410	Q9Y2J2	0.75367
19271	P03410	Q86UE4	1.0499
19272	P03410	O14633	1.6653
19273	P03410	Q86Y26	1.2725
19274	P03410	Q9BSR8	0.91008
19275	P03410	P56645	0.2465
19276	P03410	Q9BTE1	0.3429
19277	P03410	P0CG39	0.23109
19278	P03410	Q9H5L6	0.77657
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19281	P03410	Q9BW04	0.28715
19282	P03410	Q6ISB3	0.62845
19283	P03410	Q9NRR1	0.9328
19284	P03410	Q8N0Z8	1.3742
19285	P03410	Q96BU1	0.85654
19286	P03410	P78317	0.28112
19287	P03410	Q9BSF8	0.49184
19288	P03410	Q9UMS0	1.2234
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19291	P03410	Q9H6R4	0.72933
19292	P03410	Q8WY36	0.41575
19293	P03410	Q674X7	0.60865
19294	P03410	Q9UPU9	0.62609
19295	P03410	P05937	0.28026
19296	P03410	Q96BR5	0.15917
19297	P03410	Q9UHF0	0.88122
19298	P03410	Q6IPW1	0.90492
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19306	P03410	O75531	1.1009
19307	P03410	Q8N8R7	0.98145
19308	P03410	O43734	1.4883
19309	P03410	Q8IVM7	1.6653
19310	P03410	P43363	0.044177
19311	P03410	Q16873	0.38059
19312	P03410	Q6UW32	0.70628
19313	P03410	P02511	0.36911
19314	P03410	P55198	0.97091
19315	P03410	Q66K66	0.95154
19316	P03410	O15382	0.20626
19317	P03410	O43310	0.68955
19318	P03410	O75956	0.62218
19319	P03410	Q5VZL5	1.3743
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19322	P03410	O95198	0.88966
19323	P03410	Q15024	0.63293
19324	P03410	Q96NS1	0.36709
19325	P03410	A8MZ97	1.2394
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19330	P03410	Q9NZ09	0.25201
19331	P03410	Q9BXW4	0.55195
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19333	P03410	Q9Y6N9	0.53336
19334	P03410	Q9BYG3	0.31783
19335	P03410	Q9BTK2	0.98322
19336	P03410	Q9UL12	0.24891
19337	P03410	Q9HBH7	1.1086
19338	P03410	Q6AI08	0.85748
19339	P03410	Q9Y520	0.74604
19340	P03410	Q5VU43	1.3212
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19342	P03410	Q99704	0.23697
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19345	P03410	P17014	0.75447
19346	P03410	Q6TAR4	0.46638
19347	P03410	P23434	0.6035
19348	P03410	Q96CD2	0.19879
19349	P03410	Q6URK8	1.0586
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19351	P03410	Q12905	0.91841
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19353	P03410	Q8IXJ9	0.73348
19354	P03410	Q2TB18	0.046596
19355	P03410	C9JN71	0.80184
19356	P03410	Q86VY4	0.62264
19357	P03410	Q9NQX7	0.5088
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19359	P03410	Q96CV9	0.79361
19360	P03410	O14836	0.79879
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19363	P03410	P0CG24	0.71093
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19369	P03410	P56555	1.3773
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19371	P03410	Q8IWL3	0.59994
19372	P03410	Q9UND3	0.61572
19373	P03410	Q9NY74	1.8629
19374	P03410	Q9NWT8	1.0163
19375	P03410	P49366	0.55426
19376	P03410	Q16082	1.0294
19377	P03410	P30566	0.076591
19378	P03410	P02795	0.9907
19379	P03410	Q96A26	0.3817
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19383	P03410	Q96SE7	0.78793
19384	P03410	Q5JVF3	0.41762
19385	P03410	Q9UIG4	0.95938
19386	P03410	Q9H706	0.6999
19387	P03410	Q8N157	0.41354
19388	P03410	Q5JVS0	0.81301
19389	P03410	Q99550	0.74388
19390	P03410	Q8N1G2	0.37881
19391	P03410	Q15629	0.68561
19392	P03410	Q9NV88	0.85092
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19394	P03410	Q9NZM4	1.7978
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19397	P03410	Q7Z4G1	2.0374
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19400	P03410	Q5VT98	0.21632
19401	P03410	Q9UNS2	0.85902
19402	P03410	Q8IWE2	1.4763
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19407	P03410	Q9UGC7	1.2628
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19418	P03410	Q8NA42	0.83606
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19420	P03410	Q9H321	1.4395
19421	P03410	Q9Y3U8	1.0346
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19423	P03410	Q9P0N5	0.95894
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19425	P03410	Q13033	0.93646
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19436	P03410	Q9H3C7	1.4603
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19445	P03410	O43615	0.42065
19446	P03410	Q3LI73	1.9939
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19461	P03410	Q6ZUB0	1.0913
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19468	P03410	Q6P4R8	1.075
19469	P03410	Q5VV41	0.36046
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19471	P03410	Q8N5C8	0.82932
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19473	P03410	Q9C075	0.79493
19474	P03410	P42704	1.148
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19479	P03410	Q9ULE0	0.24399
19480	P03410	Q13112	1.3637
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19482	P03410	P31040	0.65666
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19546	P03410	P19447	0.14712
19547	P03410	Q8N9U0	0.20917
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19622	P03410	Q9BUY5	0.95151
19623	P03410	Q8IW70	1.0913
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19648	P03410	Q15459	0.62584
19649	P03410	Q66K80	1.6653
19650	P03410	Q96B54	1.57
19651	P03410	Q96G01	0.41375
19652	P03410	Q8NEY3	1.1155
19653	P03410	A7E2F4	0.066261
19654	P03410	Q68CQ4	0.27334
19655	P03410	A6NF83	1.071
19656	P03410	Q96HJ3	1.4883
19657	P03410	Q13952	0.68308
19658	P03410	P22736	0.3074
19659	P03410	Q6IN85	0.65434
19660	P03410	P55809	0.025504
19661	P03410	Q5S7W7	1.6653
19662	P03410	Q8N7W2	0.81853
19663	P03410	Q96IZ0	0.89853
19664	P03410	Q7L2E3	0.46787
19665	P03410	Q04727	0.60516
19666	P03410	Q8IWL8	1.9897
19667	P03410	Q8WXC7	0.86902
19668	P03410	Q8IZ26	0.81355
19669	P03410	Q9H299	0.36617
19670	P03410	Q14186	1.1197
19671	P03410	Q9H7L9	0.75522
19672	P03410	Q9BYE3	1.6653
19673	P03410	Q9BUP3	0.29019
19674	P03410	O75489	0.62567
19675	P03410	A6NDK9	0.3132
19676	P03410	P24539	0.40159
19677	P03410	P42898	0.41552
19678	P03410	Q8NEV9	0.98858
19679	P03410	Q12912	1.3126
19680	P03410	Q8N0Y7	0.92904
19681	P03410	Q8IXT1	0.76442
19682	P03410	Q5SWA1	1.3211
19683	P03410	Q9Y371	0.28941
19684	P03410	Q8N3I7	0.93995



19685	P03410	Q96EK7	0.33708
19686	P03410	Q9P2K1	0.63931
19687	P03410	O75533	0.40854
19688	P03410	Q676U5	1.0091
19689	P03410	H0Y354	1.0087
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19692	P03410	P13693	0.1775
19693	P03410	Q969J2	0.68469
19694	P03410	Q96DE5	1.9365
19695	P03410	Q9Y2S0	0.27259
19696	P03410	Q8NDT2	0.91688
19697	P03410	Q9H444	1.0984
19698	P03410	Q9HCK5	0.99596
19699	P03410	Q86V81	0.83348
19700	P03410	P07311	1.1782
19701	P03410	Q9BZD4	0.85714
19702	P03410	Q9H9A7	0.81112
19703	P03410	Q8TAF3	0.91518
19704	P03410	Q8TBE0	0.7953
19705	P03410	Q9UKJ5	0.42668
19706	P03410	P81172	0.96348
19707	P03410	Q9NWF4	1.0772
19708	P03410	O60784	0.71062
19709	P03410	O14974	0.54614
19710	P03410	Q9H8Q6	1.7181
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19712	P03410	Q96MX3	0.72744
19713	P03410	Q9P1F3	1.1904
19714	P03410	P62875	0.75835
19715	P03410	Q9H7R5	0.81411
19716	P03410	O14776	1.2238
19717	P03410	P05423	0.53013
19718	P03410	Q2VPK5	1.0539
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19720	P03410	Q9GZS1	0.47239
19721	P03410	Q8WVK7	0.83375
19722	P03410	Q15054	0.92921
19723	P03410	Q8IYN2	1.5618
19724	P03410	Q9BY31	0.62791
19725	P03410	Q9UPM9	0.18547
19726	P03410	Q9UN42	0.2401
19727	P03410	Q9HCK8	0.28739
19728	P03410	Q8TC84	0.49184
19729	P03410	Q15849	0.68559
19730	P03410	Q9BVC3	0.85786
19731	P03410	Q6XZF7	0.49504
19732	P03410	Q9NZZ3	1.2571
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19734	P03410	Q8NE65	0.86984
19735	P03410	Q96N28	0.23773
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19738	P03410	Q5T1B0	0.099693
19739	P03410	P31483	0.43272
19740	P03410	Q69YH5	1.4184
19741	P03410	P78386	0.91465
19742	P03410	Q76L83	0.69739
19743	P03410	Q9ULX3	1.0715
19744	P03410	Q3C1V9	0.56707
19745	P03410	Q9P266	1.4179
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19747	P03410	P28702	0.36929
19748	P03410	Q92834	0.69212
19749	P03410	Q12789	0.95908
19750	P03410	Q9H201	0.36287
19751	P03410	Q56UQ5	0.028138
19752	P03410	Q9Y6D6	0.80124
19753	P03410	Q9BRB3	0.83565
19754	P03410	O94830	0.08532
19755	P03410	Q9Y4E1	0.99187
19756	P03410	Q96MY1	1.285
19757	P03410	Q13064	0.31691
19758	P03410	P19338	0.68443
19759	P03410	Q9Y5V0	1.414
19760	P03410	P55327	0.56719

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19762	P03410	O43924	0.44939
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19764	P03410	Q9Y6H1	1.6853
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19766	P03410	Q9NRF9	0.20972
19767	P03410	Q147U1	0.83595
19768	P03410	Q9H1K6	0.19778
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19770	P03410	Q96M83	0.45197
19771	P03410	P52272	0.23493
19772	P03410	Q9GZP4	0.099149
19773	P03410	Q6K0P9	0.45017
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19775	P03410	Q9UM63	0.43972
19776	P03410	Q8N1G1	0.31201
19777	P03410	P04156	0.81343
19778	P03410	Q8N9S9	0.48798
19779	P03410	P43357	0.6999
19780	P03410	P08708	0.63171
19781	P03410	P09874	0.56356
19782	P03410	P0C7W9	0.18282
19783	P03410	Q9NTK1	1.4336
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19785	P03410	Q5HY64	0.19655
19786	P03410	Q86Y39	1.2475
19787	P03410	Q9BRR8	1.3289
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19789	P03410	Q8NC38	0.38258
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19793	P03410	Q95876	0.52498
19794	P03410	Q12933	0.52114
19795	P03410	Q9BSA9	1.0913
19796	P03410	Q8TC71	0.6449
19797	P03410	Q8WZB0	0.07912
19798	P03410	Q9H0E2	0.33788
19799	P03410	Q9Y2R9	1.8713
19800	P03410	Q9BVV2	0.17293
19801	P03410	Q8N5P1	0.28605
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19807	P03410	Q9ULU8	0.32395
19808	P03410	Q5PRF9	0.65956
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19813	P03410	Q9NVU7	1.0178
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19821	P03410	P21506	0.85712
19822	P03410	Q9NUQ3	0.62859
19823	P03410	Q5TBE3	0.77429
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19825	P03410	P02728	1.6653
19826	P03410	O95831	0.71264
19827	P03410	Q9BVA1	0.12768
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19830	P03410	Q9BXL5	0.45765
19831	P03410	Q9NV64	1.0758
19832	P03410	O14818	0.95721
19833	P03410	Q86Y37	0.23047
19834	P03410	Q4W4Y0	0.21555
19835	P03410	Q9BYQ4	1.9984
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19838	P03410	O43296	0.7974
19839	P03410	Q9H1B7	1.2718
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19845	P03410	Q9UBU9	0.61968
19846	P03410	Q6P1L6	0.7485
19847	P03410	Q96PI1	1.5415
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19849	P03410	Q3SY05	0.25672
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19854	P03410	O75436	1.0027
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19858	P03410	Q9HBM1	0.86866
19859	P03410	Q5XG87	0.15306
19860	P03410	Q9UKD2	0.32328
19861	P03410	Q9BQ61	1.4883
19862	P03410	Q5RGS2	1.4013
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19878	P03410	Q7Z7J9	0.75253
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19884	P03410	Q5XUX1	0.6999
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19887	P03410	Q9H0R6	0.89482
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19889	P03410	O14757	0.84086
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19905	P03410	Q9NSI2	1.4883
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19933	P03410	P78412	0.2823
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19946	P03410	Q7Z5M5	0.75414
19947	P03410	Q86XG9	0.3881
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19950	P03410	Q8WU39	0.83862
19951	P03410	Q6P2C8	0.92438
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19957	P03410	Q96FQ7	0.34557
19958	P03410	P68133	0.24431
19959	P03410	Q6ZS17	0.70981
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19963	P03410	Q86WX3	1.3403
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19965	P03410	P47224	0.59781
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19978	P03410	P60842	0.38568
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19980	P03410	A2AJT9	0.70042
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20093	P03410	P82912	1.5291
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20099	P03410	Q9BT22	0.98402
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20126	P03410	Q96GX9	0.43819
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20128	P03410	Q5BKZ1	0.96876
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20131	P03410	Q8N5I3	0.252
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20138	P03410	Q6NSW5	1.4093
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20140	P03410	Q6ICB4	0.42412

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20214	P03410	Q8N8B7	0.13575
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20306	P03410	Q8NBT2	0.89001
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20316	P03410	Q6TGC4	0.6804
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20536	P03410	P0CZ20	0.55606
20537	P03410	P40926	0.19264
20538	P03410	Q9BZS9	1.6653
20539	P03410	O75347	1.8555
20540	P03410	Q9UHV7	0.58395
20541	P03410	Q8N328	0.52041
20542	P03410	C9JDV5	0.1196
20543	P03410	Q14738	0.92883
20544	P03410	Q9H8W4	0.42123
20545	P03410	Q15742	0.3104
20546	P03410	P35580	0.2103
20547	P03410	O75477	0.88775
20548	P03410	Q8IXQ3	0.5852
20549	P03410	Q9BVP2	0.35561
20550	P03410	Q9NRI5	0.55268
20551	P03410	Q969U6	0.2744
20552	P03410	O15091	0.22218
20553	P03410	Q9Y5J9	0.96796
20554	P03410	Q6ZU35	1.4883
20555	P03410	Q8WV37	1.0058
20556	P03410	Q9BQ95	1.2613
20557	P03410	Q5VY09	1.6468
20558	P03410	Q13616	0.85429
20559	P03410	Q9H0K4	1.4247
20560	P03410	Q8NC26	0.92854
20561	P03410	P32243	0.70968
20562	P03410	Q8IVK1	1.6653
20563	P03410	Q9NX31	0.046431
20564	P03410	P0CJ73	1.4876
20565	P03410	Q13951	0.73419
20566	P03410	Q0VDE8	1.2697
20567	P03410	Q8NCU7	1.6974
20568	P03410	Q969L4	0.9119
20569	P03410	Q8WVM0	1.002
20570	P03410	P28290	0.8142
20571	P03410	A4D1E9	1.4713
20572	P03410	P15516	1.0472
20573	P03410	Q9Y4Z0	0.83083
20574	P03410	O96033	0.38572
20575	P03410	P11474	0.32587
20576	P03410	A4D997	1.5115
20577	P03410	P45984	0.33288
20578	P03410	Q49A88	1.0455
20579	P03410	P50542	0.30689
20580	P03410	Q14746	0.79212
20581	P03410	Q92664	0.31995
20582	P03410	O75821	0.59742
20583	P03410	Q9BZ01	0.56978
20584	P03410	Q96FH0	0.86134
20585	P03410	Q9Y5V3	1.0392
20586	P03410	Q8TBP5	1.0913
20587	P03410	Q96C01	0.31479
20588	P03410	Q6ZTI0	1.6653
20589	P03410	P0CJ86	0.27528
20590	P03410	Q14699	0.72512
20591	P03410	Q9Y6G5	0.6999
20592	P03410	Q9HD40	0.61333
20593	P03410	A8MWP6	1.6653
20594	P03410	Q96RK0	1.0254
20595	P03410	Q14681	0.32577
20596	P03410	Q8WVX3	1.0913

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20598	P03410	P0CJ69	1.4876
20599	P03410	P30153	0.64348
20600	P03410	Q96DZ7	0.91619
20601	P03410	A6NJL1	0.46682
20602	P03410	Q96FX7	0.52089
20603	P03410	Q4G0X4	0.32577
20604	P03410	A4UGR9	0.35443
20605	P03410	P57081	1.1796
20606	P03410	Q9UC07	0.79881
20607	P03410	O95868	1.0602
20608	P03410	Q9UJX3	1.0325
20609	P03410	A6NLI3	0.20243
20610	P03410	Q9Y248	1.0275
20611	P03410	Q9ULW3	0.75001
20612	P03410	P0CG12	2.1127
20613	P03410	O14593	0.61251
20614	P03410	Q9UKF6	0.79938
20615	P03410	Q96M61	0.6999
20616	P03410	Q6ZU69	1.1006
20617	P03410	Q96RT8	0.72993
20618	P03410	Q9HBF4	0.43703
20619	P03410	Q8IXW0	0.77092
20620	P03410	Q9BZF9	0.535
20621	P03410	Q5T1B1	2.1304
20622	P03410	Q8TC44	0.34176
20623	P03410	P52434	0.40771
20624	P03410	Q86VG3	1.1886
20625	P03410	Q5VTE6	0.15173
20626	P03410	Q9HA38	0.25854
20627	P03410	Q8IW40	0.50868
20628	P03410	Q9BQQ7	0.47911
20629	P03410	Q8NCN5	0.24003
20630	P03410	Q8TCI5	0.71409
20631	P03410	Q8TEF2	1.3387
20632	P03410	Q9H6T0	0.35313
20633	P03410	P20073	0.53873
20634	P03410	P23769	0.34136
20635	P03410	Q8IZA0	0.0592
20636	P03410	Q6ZNB5	0.42319
20637	P03410	Q2NL67	0.32721
20638	P03410	Q12799	0.11071
20639	P03410	Q13761	0.67845
20640	P03410	O95169	0.51228
20641	P03410	P31941	0.39595
20642	P03410	Q96JI7	0.79349
20643	P03410	P63135	0.11835
20644	P03410	Q6I9Y2	1.438
20645	P03410	B7Z1M9	0.11374
20646	P03410	A4FU69	0.28407
20647	P03410	Q6ZP80	1.0913
20648	P03410	Q9HAH7	1.3038
20649	P03410	Q9UI43	1.444
20650	P03410	Q2LD37	0.3533
20651	P03410	O60346	0.26792
20652	P03410	O94854	0.12345
20653	P03410	F5H4A9	1.0913
20654	P03410	Q5T7N2	0.39625
20655	P03410	Q5XKP0	0.65097
20656	P03410	Q05DH4	1.6962
20657	P03410	Q9NPD8	0.45095
20658	P03410	Q96EZ8	0.77433
20659	P03410	O43189	0.41833
20660	P03410	Q14586	0.6829
20661	P03410	Q9NWW7	1.5859
20662	P03410	Q15940	0.90727
20663	P03410	Q96MC9	1.9869
20664	P03410	P46108	0.55182
20665	P03410	Q3B726	0.35464
20666	P03410	Q9BTA9	0.95495
20667	P03410	Q00005	0.88281
20668	P03410	Q96MC5	0.00065626
20669	P03410	P52630	0.62894
20670	P03410	Q7L8S5	0.54772
20671	P03410	Q8NCQ7	0.54579
20672	P03410	Q3L8U1	0.70318

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20674	P03410	P23258	0.56175
20675	P03410	Q8NHS9	0.56184
20676	P03410	Q8NFU4	1.6653
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20678	P03410	Q330K2	0.63636
20679	P03410	Q14201	0.16477
20680	P03410	Q9UIS9	0.31582
20681	P03410	Q8N9B5	1.0442
20682	P03410	Q8ND56	1.2356
20683	P03410	Q96KP1	0.64622
20684	P03410	Q86Y28	1.0723
20685	P03410	Q9ULW0	1.8578
20686	P03410	Q9HB03	0.86335
20687	P03410	P69208	1.6653
20688	P03410	Q9BPW8	0.96226
20689	P03410	Q9NPG2	0.34399
20690	P03410	Q9H467	1.195
20691	P03410	Q96PS6	1.0895
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20694	P03410	Q9UGM6	0.32264
20695	P03410	Q9UBS4	0.61157
20696	P03410	Q6WQI6	0.44669
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20698	P03410	Q66K41	1.2915
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20703	P03410	Q5T749	1.5479
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20707	P03410	Q5TCM9	1.6653
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20710	P03410	Q9UNS1	0.52289
20711	P03410	A0PJX2	0.64771
20712	P03410	Q96EZ4	1.6653
20713	P03410	P53779	0.22985
20714	P03410	O94776	1.0212
20715	P03410	Q9HCS4	0.12816
20716	P03410	P27695	0.37092
20717	P03410	Q8NCA9	0.52846
20718	P03410	B4DS77	0.74687
20719	P03410	A0A183	1.6653
20720	P03410	Q6ZTQ3	0.52583
20721	P03410	Q7Z2W9	0.49961
20722	P03410	Q96D96	0.88775
20723	P03410	Q6BDS2	0.65073
20724	P03410	Q96Q05	0.73085
20725	P03410	O00425	0.49465
20726	P03410	Q13547	0.87911
20727	P03410	A6NLE4	1.0913
20728	P03410	Q9Y6D0	1.1722
20729	P03410	Q8IXS6	0.43892
20730	P03410	O00762	0.59208
20731	P03410	Q9HCI5	0.82061
20732	P03410	Q9P206	1.462
20733	P03410	Q9H0A9	2.1879
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20735	P03410	Q01664	0.56543
20736	P03410	Q15397	0.29436
20737	P03410	Q494X1	0.59242
20738	P03410	Q9C0F0	0.51683
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20741	P03410	A6NMC2	0.16455
20742	P03410	Q9P2F9	0.65886
20743	P03410	P0C7W0	1.4883
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20745	P03410	Q2M2Z5	1.4376
20746	P03410	Q9Y471	0.3723
20747	P03410	Q9NVH2	0.83476
20748	P03410	Q96CS3	0.80511

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20751	P03410	Q86TB9	1.1985
20752	P03410	Q9UJN7	0.68956
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20760	P03410	Q01094	0.68669
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20769	P03410	O60869	0.41141
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20775	P03410	Q9Y2Z4	0.95851
20776	P03410	A6NEJ1	0.35308
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20778	P03410	P23297	0.65
20779	P03410	Q9BZG8	0.40946
20780	P03410	Q3Y452	1.6653
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20783	P03410	Q70IA6	0.41206
20784	P03410	Q969N2	0.42327
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20786	P03410	Q14151	0.69216
20787	P03410	Q9Y5U9	1.3374
20788	P03410	Q6UXP7	0.49335
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20793	P03410	P49116	0.41432
20794	P03410	Q9Y5Z4	0.31479
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20796	P03410	B2RD01	0.20899
20797	P03410	Q86TS9	0.75992
20798	P03410	A6NNA2	1.2142
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20801	P03410	P17035	0.66045
20802	P03410	Q6ZUT4	1.4703
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20807	P03410	Q8N6V9	0.14714
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20810	P03410	Q9BVJ6	0.99979
20811	P03410	O00541	0.63009
20812	P03410	Q8WTQ4	0.58393
20813	P03410	O43790	0.91465
20814	P03410	Q8IYJ0	0.8198
20815	P03410	Q6NSI4	0.31948
20816	P03410	Q53T94	0.4414
20817	P03410	Q9UMS4	0.48912
20818	P03410	P54922	1.0717
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20823	P03410	O43181	0.11683
20824	P03410	Q8NAA6	0.1245

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20829	P03410	P13010	0.31191
20830	P03410	Q9BUR4	0.94494
20831	P03410	Q8WXC3	0.77302
20832	P03410	O95671	0.93406
20833	P03410	Q4G0S7	0.048766
20834	P03410	Q6X4T0	0.63567
20835	P03410	Q8NBR6	2.2078
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20837	P03410	O14978	0.67474
20838	P03410	P24534	0.86197
20839	P03410	O43543	0.18664
20840	P03410	Q99932	1.6653
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20843	P03410	Q9Y5K5	0.23792
20844	P03410	Q96EU6	0.73366
20845	P03410	Q8N4L1	1.0913
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20847	P03410	P59923	0.79465
20848	P03410	Q496Y0	0.24877
20849	P03410	Q86VX9	1.4597
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20851	P03410	Q8WW33	0.95793
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20853	P03410	P63279	0.61479
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20858	P03410	P13984	0.51972
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20875	P03410	P0CL84	0.45056
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20886	P03410	Q7Z7G8	0.1866
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20901	P03410	Q9HBG6	0.26147
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20919	P03410	O95411	1.6653
20920	P03410	Q9P2J8	0.78354
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20929	P03410	Q01546	0.83067
20930	P03410	P61582	2.0038
20931	P03410	Q9BY60	0.3132
20932	P03410	Q13428	1.924
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20934	P03410	Q86TE4	0.76568
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20941	P03410	Q9UIF9	0.63479
20942	P03410	Q04118	1.6653
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20944	P03410	Q92542	0.54116
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20946	P03410	P11441	0.75314
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20960	P03410	Q8TEW0	0.41041
20961	P03410	P83916	0.93328
20962	P03410	Q8TE69	0.6999
20963	P03410	Q86XK3	1.7054
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20965	P03410	Q96GW9	1.0445
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20973	P03410	Q9UHQ7	0.94184
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20976	P03410	Q8IUC6	0.49763

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20981	P03410	Q15542	0.95119
20982	P03410	Q14CZ7	0.30076
20983	P03410	Q494U1	0.41701
20984	P03410	A8MTW9	1.6653
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20987	P03410	O43752	0.79543
20988	P03410	Q8N684	0.57839
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20996	P03410	P23284	0.53304
20997	P03410	Q86V25	0.41938
20998	P03410	A8MQ14	0.78951
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21003	P03410	Q6IBW4	0.7657
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21010	P03410	Q8N5Z5	0.25044
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21016	P03410	Q96HR8	1.9313
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21018	P03410	Q8IYG6	0.0065311
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21023	P03410	Q13068	0.26031
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21027	P03410	P80723	1.4047
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21031	P03410	Q16186	0.6992
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21043	P03410	Q9UPV0	1.8244
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21060	P03410	H3BPM6	0.018954
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21087	P03410	Q8NEU8	0.60386
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21117	P03410	Q13362	0.28004
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21127	P03410	Q32MH5	0.92601
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21138	P03410	Q8NAE3	1.2155
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21424	P03410	Q8WW35	0.6999
21425	P03410	Q5T200	1.1558
21426	P03410	O43829	0.72248
21427	P03410	A8MYP8	0.97182
21428	P03410	Q9C099	1.2136
21429	P03410	P17152	1.0823
21430	P03410	P78347	0.42625
21431	P03410	Q5VXU3	0.69813
21432	P03410	O43463	0.93544

21433	P03410	Q6ZRP5	1.6653
21434	P03410	Q6ZN17	1.1352
21435	P03410	Q9NX94	0.8599
21436	P03410	Q99807	0.28322
21437	P03410	Q15035	0.44735
21438	P03410	Q53SZ7	1.4883
21439	P03410	Q9HB19	0.84948
21440	P03410	O00410	1.4472
21441	P03410	Q9NQC8	0.183
21442	P03410	Q14194	0.56899
21443	P03410	Q9Y3A2	0.98848
21444	P03410	O75223	0.38657
21445	P03410	Q15070	0.61182
21446	P03410	Q96FA7	1.8195
21447	P03410	O96001	1.4734
21448	P03410	Q6NVU6	0.4286
21449	P03410	Q6P2Q9	0.61333
21450	P03410	Q9NV31	1.1431
21451	P03410	Q8WU03	0.92954
21452	P03410	Q9NVA1	0.75083
21453	P03410	Q96RY5	1.2213
21454	P03410	P60006	1.5796
21455	P03410	Q9Y4A0	0.098279
21456	P03410	Q6ZQN3	1.7727
21457	P03410	Q9H8H0	0.36709
21458	P03410	O14744	0.90413
21459	P03410	P80294	0.83308
21460	P03410	P0C7X0	0.18282
21461	P03410	Q9H4B6	0.71023
21462	P03410	Q66LE6	0.61554
21463	P03410	Q8N9K3	1.4883
21464	P03410	Q63HK5	0.28089
21465	P03410	Q8N8H1	0.89197
21466	P03410	Q9HAY2	0.2347
21467	P03410	O75123	0.75546
21468	P03410	O95073	1.1794
21469	P03410	Q8N8J6	0.51034
21470	P03410	Q7RTT4	0.35308
21471	P03410	P59780	0.40393
21472	P03410	Q9P021	0.5078
21473	P03410	Q6P087	0.3973
21474	P03410	Q9BZR8	0.7226
21475	P03410	Q86TA4	0.56865
21476	P03410	P26641	0.7105
21477	P03410	A6NL46	1.1861
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21480	P03410	Q8NE31	0.2998
21481	P03410	Q92805	0.25235
21482	P03410	Q3ZCT1	0.76363
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21484	P03410	Q8N782	0.99836
21485	P03410	A6NLX3	0.63366
21486	P03410	A4D0T7	0.98472
21487	P03410	Q96L11	0.76686
21488	P03410	Q93074	0.53794
21489	P03410	Q9NX18	1.1608
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21491	P03410	Q99622	0.4581
21492	P03410	Q8N5M1	0.8072
21493	P03410	Q9UI26	0.61101
21494	P03410	P0DJG4	1.3184
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21498	P03410	P83436	0.89552
21499	P03410	P59990	1.9984
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21501	P03410	Q9NUD5	0.18656
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21503	P03410	Q96LW9	0.65456
21504	P03410	O43745	1.0121
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21506	P03410	H3BN30	1.6653
21507	P03410	Q9BQ70	1.1754
21508	P03410	Q6ZQV5	0.79465



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21511	P03410	A6NDE8	0.508
21512	P03410	P09001	1.3893
21513	P03410	Q96CW5	1.296
21514	P03410	Q8TF47	0.99815
21515	P03410	P18754	1.2863
21516	P03410	Q9ULV5	0.3744
21517	P03410	A6NC05	0.21289
21518	P03410	O00422	1.1693
21519	P03410	Q9NWB6	1.4883
21520	P03410	Q96DZ1	0.55354
21521	P03410	P03901	0.70239
21522	P03410	Q9NSB2	0.82869
21523	P03410	Q6P575	0.59546
21524	P03410	Q5TBB1	1.6907
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21526	P03410	Q6P4D5	1.5181
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21528	P03410	Q5UIP0	1.5908
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21530	P03410	Q5FWE3	1.0913
21531	P03410	P15407	0.64859
21532	P03410	Q12901	0.92885
21533	P03410	Q629K1	0.94906
21534	P03410	Q9NRC8	1.1236
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21536	P03410	E9PGG2	0.2823
21537	P03410	Q9H8V3	0.29546
21538	P03410	P62312	0.89016
21539	P03410	P47914	1.9853
21540	P03410	Q9UH92	0.62927
21541	P03410	Q8NE00	1.0935
21542	P03410	O43791	0.69603
21543	P03410	O00151	0.3918
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21546	P03410	Q8WVE6	1.1767
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21551	P03410	Q9BYR3	1.9984
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21553	P03410	Q9UQF2	0.55679
21554	P03410	Q6P3W6	1.1275
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21556	P03410	Q8N300	0.77005
21557	P03410	Q13123	1.6965
21558	P03410	P86478	1.6653
21559	P03410	Q9NP87	0.33026
21560	P03410	Q9Y2B0	0.3524
21561	P03410	Q969H6	1.0882
21562	P03410	O00257	0.88522
21563	P03410	Q86XA9	0.62062
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21565	P03410	A1E959	0.87201
21566	P03410	Q9UQ84	0.25766
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21570	P03410	Q49AA0	0.97448
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21572	P03410	Q6PGN9	1.4207
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21577	P03410	Q6ZN57	0.69998
21578	P03410	Q03701	0.45445
21579	P03410	A6NKF1	1.2626
21580	P03410	Q9H4W6	0.18756
21581	P03410	Q5HYW2	1.462
21582	P03410	Q9UL01	0.74631
21583	P03410	Q9P270	0.82137
21584	P03410	P08729	1.7329

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21586	P03410	Q9C0B1	0.31837
21587	P03410	Q99871	0.80444
21588	P03410	Q96BD8	0.84645
21589	P03410	A6NFQ2	1.3107
21590	P03410	Q8NAQ8	2.127
21591	P03410	Q9P0J0	0.59436
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21593	P03410	Q8TD26	0.17285
21594	P03410	O43731	0.64272
21595	P03410	P56750	0.53505
21596	P03410	P0C7W8	0.55466
21597	P03410	Q86U44	0.24115
21598	P03410	O75691	0.96133
21599	P03410	Q6UXP8	1.6653
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21604	P03410	Q6NZ36	0.30005
21605	P03410	Q8N815	0.10204
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21618	P03410	P20810	1.2323
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21621	P03410	Q13326	0.49183
21622	P03410	Q9UKL0	1.3185
21623	P03410	Q9UQR0	0.20579
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21627	P03410	P43358	0.54253
21628	P03410	P17041	0.70233
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21630	P03410	Q502X0	0.0039504
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21636	P03410	Q5JUQ0	0.65688
21637	P03410	Q15283	0.22406
21638	P03410	Q9BQ65	0.77493
21639	P03410	O75564	0.61042
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21643	P03410	Q86U42	0.78283
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21645	P03410	Q9NP84	0.63042
21646	P03410	O75618	1.0922
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21652	P03410	Q9Y5N6	0.87326
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21668	P03410	Q9NW38	0.83761
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21671	P03410	Q8IU99	1.0913
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21674	P03410	Q538Z0	1.6653
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21676	P03410	Q8N3Z6	0.38493
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21682	P03410	Q8N183	0.26191
21683	P03410	Q9Y2T7	0.27326
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21717	P03410	Q0VDD5	1.6653
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21719	P03410	A1L190	1.688
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21721	P03410	Q92985	0.51996
21722	P03410	Q8NCE0	0.99546
21723	P03410	O60829	1.242
21724	P03410	Q96N20	0.7133
21725	P03410	Q9H5N1	0.9886
21726	P03410	P20265	0.6048
21727	P03410	Q6DD87	0.65198
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21732	P03410	A6NKF2	0.7397
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21743	P03410	P39023	1.116
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21745	P03410	Q86YE8	0.79465
21746	P03410	P55795	0.16337
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21749	P03410	Q7RTU3	0.44898
21750	P03410	Q9H583	1.2869
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21756	P03410	Q8TDB4	0.58222
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21762	P03410	P02792	0.07098
21763	P03410	O94952	0.95306
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21771	P03410	Q71F78	0.9249
21772	P03410	Q9P2D0	0.36087
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21782	P03410	Q96L14	0.8074
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21784	P03410	Q8WY41	0.66394
21785	P03410	Q6ZNK6	1.794
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21829	P03410	Q99543	0.41666
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21836	P03410	Q9Y664	0.72049
21837	P03410	Q6ZTY9	0.85402
21838	P03410	Q2NKJ3	0.97956
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21842	P03410	Q9UID6	0.47086
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21846	P03410	Q9Y5N5	0.58259
21847	P03410	Q03936	0.94346
21848	P03410	O75425	0.94999
21849	P03410	O43257	0.64738
21850	P03410	Q5VTL8	1.4945
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21855	P03410	O75940	0.78274
21856	P03410	A6NMV5	0.24589
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21874	P03410	O60477	0.76342
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21876	P03410	B9ZVM9	1.8172
21877	P03410	Q5SW79	1.2857
21878	P03410	Q96K58	0.75894
21879	P03410	P53804	0.46349
21880	P03410	Q8N5U6	0.94049
21881	P03410	Q7L0X2	0.75911
21882	P03410	P60660	0.46127
21883	P03410	Q8IX15	0.44901
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21885	P03410	Q5T035	1.6329
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21887	P03410	P62166	0.4072
21888	P03410	Q9NP74	0.26546

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21890	P03410	Q5T6X4	1.4742
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21892	P03410	P31150	0.17674
21893	P03410	P17021	0.64448
21894	P03410	Q6PI77	1.0268
21895	P03410	P57076	0.60386
21896	P03410	Q6P161	0.49843
21897	P03410	Q569H4	1.4883
21898	P03410	Q68CZ1	0.35557
21899	P03410	P55789	0.39153
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21901	P03410	O75164	0.92822
21902	P03410	Q86W50	0.83413
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21905	P03410	P15622	0.85653
21906	P03410	Q4KMZ1	0.56477
21907	P03410	P62633	0.3727
21908	P03410	Q86UB9	1.4081
21909	P03410	P52744	0.75611
21910	P03410	P13647	1.1375
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21912	P03410	P51522	0.75477
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21915	P03410	P17023	0.71552
21916	P03410	Q7Z6Z6	0.54729
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21919	P03410	Q12769	1.2264
21920	P03410	Q9GZQ3	1.5402
21921	P03410	Q8N895	0.69209
21922	P03410	Q8WUA4	0.30191
21923	P03410	Q01850	1.0107
21924	P03410	Q3LI64	1.6653
21925	P03410	Q9H5F2	0.96209
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21955	P03410	Q9H6X5	0.19294
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21962	P03410	Q9H488	0.0718
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22003	P03410	A6NEM1	1.5003
22004	P03410	Q9HAB8	1.0742
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22023	P03410	Q9HBD4	0.90233
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22038	P03410	Q7L945	0.78091
22039	P03410	A0JNW5	1.1352
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22046	P03410	Q14154	0.8864
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22063	P03410	Q9Y5K8	0.2199
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22082	P03410	Q8IZY5	0.4687
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22203	P03410	Q3MIT2	0.33552
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22313	P03410	Q9BRP1	1.1279
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22315	P03410	P04732	0.80043
22316	P03410	C9JI98	1.0913
22317	P03410	P13196	0.19646
22318	P03410	O75817	1.1364
22319	P03410	Q9NVL8	0.19497
22320	P03410	Q68E01	1.2088
22321	P03410	Q9UK45	0.84686
22322	P03410	Q9UN30	0.24371
22323	P03410	P07737	0.99006
22324	P03410	Q58F21	0.32176
22325	P03410	Q96SL8	0.65654
22326	P03410	Q86YC2	0.82963
22327	P03410	Q9UMX1	1.3649
22328	P03410	P50135	0.078297
22329	P03410	Q7L5Y9	0.48222
22330	P03410	Q52M58	1.8247
22331	P03410	P42566	0.37811
22332	P03410	Q9UKJ3	1.3152
22333	P03410	P0C7T4	1.6653
22334	P03410	P42773	0.51059
22335	P03410	Q9UGU0	0.35705
22336	P03410	P18850	0.66709
22337	P03410	O95164	1.0505
22338	P03410	P56715	0.36138
22339	P03410	Q9ULW6	0.51552
22340	P03410	Q75QN2	1.5645
22341	P03410	O00471	0.49824
22342	P03410	Q13310	0.53017
22343	P03410	Q9NRT5	1.1623
22344	P03410	Q5T753	1.6653

22345	P03410	Q9HCD5	1.1794
22346	P03410	Q8WXH0	0.39008
22347	P03410	Q9BRV8	0.81199
22348	P03410	Q86X67	0.13271
22349	P03410	O75880	0.22271
22350	P03410	Q8NFM7	0.95673
22351	P03410	Q93034	0.80373
22352	P03410	O95363	1.0343
22353	P03410	Q15517	1.0365
22354	P03410	O75179	0.50359
22355	P03410	Q8N635	0.15091
22356	P03410	Q5XKK7	0.5134
22357	P03410	Q9P2K3	1.3086
22358	P03410	Q8NFR9	1.1256
22359	P03410	Q6W0C5	0.48998
22360	P03410	Q9P2X0	0.19655
22361	P03410	Q494R4	0.013354
22362	P03410	P08727	1.0001
22363	P03410	P63162	0.90302
22364	P03410	O75391	1.0722
22365	P03410	A8MTY7	1.9984
22366	P03410	A6NEL3	0.12972
22367	P03410	Q96HA7	0.86419
22368	P03410	Q99551	0.73502
22369	P03410	O75971	1.7604
22370	P03410	O94992	2.1024
22371	P03410	Q9P1C3	1.0553
22372	P03410	Q5J8X5	1.0913
22373	P03410	Q9H095	0.56752
22374	P03410	B4DZS4	0.6374
22375	P03410	Q9NYJ1	1.7803
22376	P03410	Q4V348	0.65413
22377	P03410	Q9UBY9	1.125
22378	P03410	O75467	0.76893
22379	P03410	Q6UX82	0.53937
22380	P03410	P0C5K7	0.13951
22381	P03410	P62879	0.81791
22382	P03410	P46109	0.32066
22383	P03410	Q9UI14	0.14259
22384	P03410	P10515	0.43936
22385	P03410	Q3KP22	0.43829
22386	P03410	Q96M29	0.87211
22387	P03410	P22914	0.3743
22388	P03410	Q8IXX5	0.79088
22389	P03410	O60907	0.77663
22390	P03410	Q6ICL7	0.70807
22391	P03410	Q969R5	0.32618
22392	P03410	P62891	1.4119
22393	P03410	Q2TAM9	1.8193
22394	P03410	P05783	1.5647
22395	P03410	Q9BV73	0.98688
22396	P03410	Q96MY7	1.9534
22397	P03410	Q76KD6	0.83742
22398	P03410	Q8TAT6	0.51753
22399	P03410	P33076	0.53348
22400	P03410	O00161	1.1445
22401	P03410	P61575	1.1462
22402	P03410	P43356	1.0701
22403	P03410	Q96JJ3	0.5356
22404	P03410	Q9Y5A6	0.66309
22405	P03410	Q8N6T0	1.2441
22406	P03410	Q96G61	0.34631
22407	P03410	Q6PI48	1.28
22408	P03410	Q8N668	0.8854
22409	P03410	Q9UG56	0.72812
22410	P03410	A6NN73	0.71504
22411	P03410	A6NNH0	1.3563
22412	P03410	Q13438	0.19378
22413	P03410	Q6ZN32	0.30793
22414	P03410	P28065	0.98244
22415	P03410	Q86U38	0.38771
22416	P03410	E9PB15	0.40292
22417	P03410	Q8ND76	0.78859
22418	P03410	Q15042	0.69717
22419	P03410	Q9Y221	1.0399
22420	P03410	Q96KT0	0.98322

22421	P03410	Q9BVL2	0.87917
22422	P03410	Q96B96	0.95154
22423	P03410	Q9NRJ3	0.88121
22424	P03410	P58557	1.6858
22425	P03410	Q9BV47	0.44822
22426	P03410	Q5T160	1.1545
22427	P03410	Q92681	0.5953
22428	P03410	Q7RTX8	0.044788
22429	P03410	Q7LBR1	1.2457
22430	P03410	Q14934	0.30406
22431	P03410	Q6AZY7	0.74793
22432	P03410	Q5T1J5	1.6853
22433	P03410	Q9BQY9	0.76463
22434	P03410	Q92890	0.86321
22435	P03410	A1A5B4	0.92935
22436	P03410	Q9BWQ6	0.7513
22437	P03410	O14802	0.35498
22438	P03410	Q8N8D1	1.8323
22439	P03410	Q5JWR5	0.38787
22440	P03410	Q4LDR2	0.96395
22441	P03410	Q9BXU3	1.1058
22442	P03410	Q9NQS1	1.2991
22443	P03410	O43242	0.62103
22444	P03410	Q5T9C2	1.4883
22445	P03410	P27815	0.36817
22446	P03410	E9PQX1	0.49868
22447	P03410	Q6ZMV8	1.0173
22448	P03410	Q8WVT3	0.12951
22449	P03410	Q9BT25	1.0037
22450	P03410	Q9NQA3	0.43138
22451	P03410	B3EWG5	1.4883
22452	P03410	Q96DG6	0.34674
22453	P03410	Q12906	1.0923
22454	P03410	Q9Y5B6	1.2191
22455	P03410	Q9UPR6	0.52978
22456	P03410	O94973	0.67136
22457	P03410	Q9H9E3	0.93796
22458	P03410	Q9Y2K5	0.61162
22459	P03410	Q9BRK5	0.23443
22460	P03410	Q96EF6	0.88333
22461	P03410	P35611	0.1792
22462	P03410	O43865	0.43055
22463	P03410	Q6AI39	1.3918
22464	P03410	Q9Y421	0.36202
22465	P03410	P04198	0.79462
22466	P03410	Q00978	0.79415
22467	P03410	Q30KQ7	0.87928
22468	P03410	Q5HYK3	0.9978
22469	P03410	P47874	0.50871
22470	P03410	Q96HS1	0.52338
22471	P03410	Q14591	0.64587
22472	P03410	Q8NF64	1.242
22473	P03410	Q9BRS8	0.62236
22474	P03410	O43345	0.77805
22475	P03410	Q9P1D8	1.6653
22476	P03410	Q9H0A6	0.58631
22477	P03410	Q8WU90	0.95178
22478	P03410	Q6BDI9	0.8359
22479	P03410	Q86UU0	1.3666
22480	P03410	Q8IXT2	0.15686
22481	P03410	P56377	0.69547
22482	P03410	Q9NRR8	1.2004
22483	P03410	O94903	0.96793
22484	P03410	Q969X6	1.1211
22485	P03410	Q9HCZ1	0.71705
22486	P03410	Q9H079	0.81748
22487	P03410	O75448	0.60744
22488	P03410	Q6PH85	0.12422
22489	P03410	P0DI83	1.168
22490	P03410	Q96EV8	0.29829
22491	P03410	Q3LHN2	1.6653
22492	P03410	Q96RN5	1.3009
22493	P03410	O75896	1.4921
22494	P03410	Q96M53	1.9188
22495	P03410	P30307	0.88835
22496	P03410	Q5TYX0	0.67757

22497	P03410	Q9NPA3	1.7336
22498	P03410	Q8N4Q1	0.37886
22499	P03410	Q6ZNG1	0.81411
22500	P03410	Q95177	0.51921
22501	P03410	P18859	0.15693
22502	P03410	K9M1U5	1.6653
22503	P03410	Q8N6L7	1.3271
22504	P03410	Q92733	1.6653
22505	P03410	Q8IWD5	0.98964
22506	P03410	Q5VVH5	0.66707
22507	P03410	Q9BYR9	0.67361
22508	P03410	Q8WX93	0.65578
22509	P03410	Q7Z3B3	0.43038
22510	P03410	Q6ZV80	0.60764
22511	P03410	Q6NTF7	0.21418
22512	P03410	P04280	0.92241
22513	P03410	Q9C002	0.43842
22514	P03410	Q12929	0.35931
22515	P03410	Q86XL3	0.5246
22516	P03410	Q96T17	1.0054
22517	P03410	Q95568	0.074364
22518	P03410	Q6ZW49	0.39462
22519	P03410	Q00743	0.83887
22520	P03410	Q99750	0.87169
22521	P03410	Q14192	0.54526
22522	P03410	Q9Y5R4	0.27036
22523	P03410	O60888	1.1061
22524	P03410	Q9UJX6	0.67742
22525	P03410	Q9BV19	1.0263
22526	P03410	Q9P278	1.3816
22527	P03410	Q9UFG5	0.6999
22528	P03410	Q9Y2G7	1.0676
22529	P03410	Q96EP1	0.36686
22530	P03410	Q9BQ87	0.54613
22531	P03410	Q96EY1	0.60413
22532	P03410	O15397	1.1291
22533	P03410	Q49MG5	1.616
22534	P03410	O43365	0.33473
22535	P03410	O43167	0.84197
22536	P03410	Q96D98	1.4336
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22538	P03410	Q587J8	0.1935
22539	P03410	Q9UID3	0.24129
22540	P03410	O75348	0.31469
22541	P03410	Q96A73	1.4476
22542	P03410	Q8NHY0	0.555
22543	P03410	P49247	1.3317
22544	P03410	Q9UKK6	0.95222
22545	P03410	Q16533	0.81172
22546	P03410	A6NC42	0.78081
22547	P03410	Q2WJ8	1.7637
22548	P03410	P60372	1.9984
22549	P03410	Q9Y215	0.31652
22550	P03410	A2RUG3	1.2052
22551	P03410	P15976	0.26444
22552	P03410	Q15012	0.94801
22553	P03410	P11277	0.49396
22554	P03410	Q6S8J3	0.23109
22555	P03410	Q6P9B9	1.2973
22556	P03410	Q9UET6	1.0876
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22558	P03410	P05114	0.5542
22559	P03410	Q9NZL9	0.16097
22560	P03410	Q99747	0.9904
22561	P03410	Q9UKG1	0.54328
22562	P03410	P59103	1.2602
22563	P03410	Q14236	0.86438
22564	P03410	O60437	1.1368
22565	P03410	Q93045	0.38186
22566	P03410	Q9UFN0	0.92813
22567	P03410	Q96PM9	0.3238
22568	P03410	P29372	1.2707
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22570	P03410	Q9H2D6	0.25029
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22573	P03410	Q9BTX1	0.91955
22574	P03410	P22103	1.6653
22575	P03410	P30740	0.26959
22576	P03410	P51580	0.6869
22577	P03410	A6NEY8	0.55629
22578	P03410	Q14770	0.51709
22579	P03410	Q6IE81	1.0407
22580	P03410	Q5XKL5	0.36709
22581	P03410	Q6P1K8	0.45857
22582	P03410	P29966	2.0787
22583	P03410	Q7LG56	0.13852
22584	P03410	Q9GZU8	0.67831
22585	P03410	Q86TC9	0.52365
22586	P03410	A6NE82	0.38071
22587	P03410	Q15072	0.71849
22588	P03410	Q95471	0.15894
22589	P03410	Q86UP8	0.30478
22590	P03410	Q75312	0.80461
22591	P03410	Q9Y5U2	1.4355
22592	P03410	A6NEY3	1.594
22593	P03410	P0CG47	0.60541
22594	P03410	Q05BV3	0.3132
22595	P03410	Q96IT6	1.6653
22596	P03410	Q9N2J8	0.71368
22597	P03410	Q8TF74	0.89895
22598	P03410	Q9BZE4	0.37573
22599	P03410	Q9BX66	0.56147
22600	P03410	Q9BYD5	0.17388
22601	P03410	Q0VAK6	0.22052
22602	P03410	Q8N5T8	1.5759
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22604	P03410	Q9H4A5	1.5438
22605	P03410	Q8IYM2	0.50774
22606	P03410	Q5JSS6	0.66533
22607	P03410	Q70YC5	0.87199
22608	P03410	Q13442	1.5044
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22610	P03410	Q9BZA0	0.03112
22611	P03410	P34897	0.27685
22612	P03410	Q9NUA8	0.72587
22613	P03410	P86496	1.6653
22614	P03410	Q86TJ5	0.79659
22615	P03410	P36543	0.40503
22616	P03410	A6NFF2	0.37831
22617	P03410	Q3BBV2	1.289
22618	P03410	Q5VWM3	0.16422
22619	P03410	Q14683	1.0122
22620	P03410	Q9BQ90	1.1293
22621	P03410	Q92759	0.69419
22622	P03410	Q9Y2A4	0.9961
22623	P03410	Q8IWJ2	0.98846
22624	P03410	Q92615	0.97127
22625	P03410	A2RRP1	0.46154
22626	P03410	Q9UJM3	0.59185
22627	P03410	Q9H6V9	0.90652
22628	P03410	Q5JQS6	0.94898
22629	P03410	Q6P1N0	0.53118
22630	P03410	Q9UL42	1.1055
22631	P03410	Q96SZ5	0.38363
22632	P03410	O60518	1.2414
22633	P03410	Q9BXY0	0.36709
22634	P03410	Q9H9E1	0.3902
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22639	P03410	P52742	0.76906
22640	P03410	Q92621	1.3554
22641	P03410	Q7Z3T8	0.28114
22642	P03410	P24588	0.21864
22643	P03410	Q96PP4	0.40435
22644	P03410	Q3LI67	1.6653
22645	P03410	O60934	0.26237
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22647	P03410	Q9BVW6	1.6653
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22652	P03410	Q5QFB9	1.3692
22653	P03410	P24855	0.22922
22654	P03410	Q9C0E2	1.1472
22655	P03410	Q8IYI6	0.87605
22656	P03410	P59037	1.5752
22657	P03410	Q6NT89	1.67
22658	P03410	Q6P587	0.16314
22659	P03410	Q86V85	0.75362
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22661	P03410	A2BFH1	0.22741
22662	P03410	Q9H9L3	0.57508
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22666	P03410	Q7L9B9	0.55863
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22672	P03410	Q6ZR52	0.79552
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22676	P03410	Q96NT1	1.1873
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22678	P03410	Q9Y6Q2	0.65793
22679	P03410	A6NCL1	0.41744
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22681	P03410	P0C7M4	0.2823
22682	P03410	A6NDY2	0.74411
22683	P03410	Q9BSQ5	0.60127
22684	P03410	O75884	1.7438
22685	P03410	Q06546	1.2018
22686	P03410	O00221	0.33736
22687	P03410	Q9ULN7	1.4297
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22689	P03410	Q9Y2M5	0.87162
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22691	P03410	P62753	1.0886
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22693	P03410	O14737	0.65142
22694	P03410	P78344	0.64224
22695	P03410	O43237	0.22066
22696	P03410	O60290	0.96695
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22701	P03410	Q6EMB2	0.18824
22702	P03410	Q49AR2	0.8029
22703	P03410	A4QN01	0.41466
22704	P03410	Q6P5R6	0.54581
22705	P03410	O14829	0.45562
22706	P03410	O75886	1.4395
22707	P03410	Q15022	0.67854
22708	P03410	Q96KF2	1.6653
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22710	P03410	Q9GZW5	0.70458
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22712	P03410	O15194	0.16212
22713	P03410	Q6ZVL8	1.6653
22714	P03410	P17097	0.626
22715	P03410	Q9C073	1.4667
22716	P03410	A6NME0	0.62739
22717	P03410	A0AVK6	0.29891
22718	P03410	Q96I25	0.30489
22719	P03410	Q8N3Z3	0.87997
22720	P03410	Q9UJY4	0.98958
22721	P03410	Q9UBQ5	1.0971
22722	P03410	P23588	0.46323
22723	P03410	Q15545	0.83915
22724	P03410	Q9NPI1	0.80101



22725	P03410	P17405	0.32757
22726	P03410	Q8TBZ0	0.41912
22727	P03410	H3BQW9	1.1237
22728	P03410	Q9HB58	0.34429
22729	P03410	I3L1I5	0.65174
22730	P03410	Q5JTW2	0.7191
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22732	P03410	Q8N8A4	0.27319
22733	P03410	P56134	0.58768
22734	P03410	Q32M92	0.22963
22735	P03410	P46060	0.32749
22736	P03410	Q14135	0.54613
22737	P03410	O95070	0.43428
22738	P03410	Q8NC51	0.90147
22739	P03410	A8K8P3	1.2295
22740	P03410	Q8N6M9	0.18606
22741	P03410	O94888	0.68381
22742	P03410	Q8NA31	0.82068
22743	P03410	Q6IQ23	0.59859
22744	P03410	Q6IPT2	1.9055
22745	P03410	Q8TAF5	1.6653
22746	P03410	Q3LI63	1.6653
22747	P03410	Q9UI10	0.48853
22748	P03410	Q9BXW6	0.3591
22749	P03410	O75208	0.95091
22750	P03410	Q9BYG4	0.96675
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22753	P03410	Q5TIA1	0.12185
22754	P03410	Q9H446	0.6999
22755	P03410	Q5TFG8	0.76532
22756	P03410	Q5HYR2	1.3763
22757	P03410	Q13405	1.1191
22758	P03410	Q8N3R9	0.39906
22759	P03410	Q7Z5D8	1.0068
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22761	P03410	Q8IYJ2	1.6077
22762	P03410	A8K0Z3	0.32624
22763	P03410	Q86TU7	0.27953
22764	P03410	Q5W0V3	1.2824
22765	P03410	Q8NB25	0.35216
22766	P03410	Q5T7B8	0.34531
22767	P03410	Q9UPN9	0.31696
22768	P03410	O95994	0.13248
22769	P03410	O43593	0.12793
22770	P03410	P0CL83	1.0182
22771	P03410	Q8WWR8	0.30058
22772	P03410	P60709	0.24431
22773	P03410	Q71UM5	0.88777
22774	P03410	Q99873	0.65978
22775	P03410	Q8NHY6	0.84049
22776	P03410	Q9UIF7	0.51165
22777	P03410	Q7L2Z9	0.45065
22778	P03410	Q9NX95	0.8285
22779	P03410	Q5VZV4	0.91931
22780	P03410	Q9H5H4	0.76436
22781	P03410	Q8N944	1.5275
22782	P03410	Q0VG06	0.89588
22783	P03410	Q9BVT8	1.4584
22784	P03410	Q9BYQ0	1.9984
22785	P03410	Q9H2J4	1.0701
22786	P03410	Q7Z3V5	0.78793
22787	P03410	O00566	1.1279
22788	P03410	P49411	0.84144
22789	P03410	P31946	0.61076
22790	P03410	Q9H6Y2	0.28878
22791	P03410	Q9BQ67	0.49184
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22793	P03410	Q9BVL4	1.8288
22794	P03410	Q5T9G4	1.5627
22795	P03410	Q6ZNG9	0.15559
22796	P03410	P53672	1.3539
22797	P03410	Q96PB1	1.0984
22798	P03410	Q9NS26	1.3238
22799	P03410	Q6NUN7	1.6653
22800	P03410	E0CX11	1.6653

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22802	P03410	O75832	0.65782
22803	P03410	Q9HC52	0.78119
22804	P03410	Q9UHC1	0.60231
22805	P03410	Q8N7B1	1.0719
22806	P03410	O14980	1.2917
22807	P03410	P20618	1.0314
22808	P03410	Q8NEA5	0.65542
22809	P03410	Q9H761	0.96997
22810	P03410	P78524	0.051672
22811	P03410	O95391	0.34578
22812	P03410	Q01543	0.36839
22813	P03410	O43156	1.0743
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22815	P03410	Q86W11	0.6702
22816	P03410	O43505	0.93885
22817	P03410	Q13114	0.43561
22818	P03410	P78337	0.27362
22819	P03410	Q9BVA0	0.33607
22820	P03410	P49902	0.088294
22821	P03410	Q9P0K7	0.38538
22822	P03410	Q8N8E3	0.56173
22823	P03410	P40337	0.7402
22824	P03410	P49642	0.50624
22825	P03410	Q9HCU8	1.0644
22826	P03410	Q92754	0.46107
22827	P03410	P14324	0.23025
22828	P03410	Q9H9Q4	0.6189
22829	P03410	Q5SZJ8	0.13501
22830	P03410	Q6MZN7	1.6653
22831	P03410	Q86Y25	0.81906
22832	P03410	Q96FN9	0.877
22833	P03410	Q499Z4	0.80936
22834	P03410	Q9NRQ5	1.6653
22835	P03410	Q8IVM0	0.83836
22836	P03410	P28370	0.44228
22837	P03410	Q6ZTC4	1.6653
22838	P03410	Q96KD3	1.9055
22839	P03410	Q8IW50	1.4883
22840	P03410	Q9Y4U1	0.51341
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22842	P03410	P50991	0.33921
22843	P03410	O75390	0.18749
22844	P03410	Q3LI77	0.46908
22845	P03410	Q9HB65	0.56643
22846	P03410	Q9HBE1	0.55581
22847	P03410	O76009	0.88723
22848	P03410	Q9Y5P8	0.98025
22849	P03410	Q8N393	0.81273
22850	P03410	P48595	0.25305
22851	P03410	Q13506	0.39317
22852	P03410	P61077	0.53543
22853	P03410	Q0P6D6	0.19775
22854	P03410	Q2M3X9	0.82417
22855	P03410	Q03111	1.1722
22856	P03410	P07197	1.2446
22857	P03410	P10606	0.27069
22858	P03410	O14777	0.74555
22859	P03410	Q9Y4J8	0.30618
22860	P03410	Q4G0G2	1.1197
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22862	P03410	Q8NEL9	0.097892
22863	P03410	Q9UPN7	1.1342
22864	P03410	Q13573	0.67263
22865	P03410	O95373	1.3485
22866	P03410	Q14203	1.3045
22867	P03410	Q9BZE1	1.009
22868	P03410	C9JE40	1.1194
22869	P03410	Q9NNW5	0.79318
22870	P03410	Q6B9Z1	1.0868
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22872	P03410	P62837	0.53543
22873	P03410	Q5QJ74	0.23477
22874	P03410	P05814	1.3964
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22878	P03410	O60284	0.14332
22879	P03410	Q5VV17	0.23523
22880	P03410	Q9BX40	1.1703
22881	P03410	Q05195	0.32774
22882	P03410	Q1T7F1	0.54271
22883	P03410	P49792	0.94507
22884	P03410	Q9NX05	0.771
22885	P03410	Q8NFR3	0.67623
22886	P03410	Q06609	0.48907
22887	P03410	P0C7T7	1.6653
22888	P03410	Q15061	0.36709
22889	P03410	Q96MW1	1.4883
22890	P03410	Q9GZN7	1.0471
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22892	P03410	Q15276	0.62758
22893	P03410	Q01892	0.26519
22894	P03410	Q8NBV4	0.98316
22895	P03410	Q9BYG5	0.85202
22896	P03410	O43819	0.41662
22897	P03410	A7MCY6	1.1015
22898	P03410	Q7Z5Y7	0.32577
22899	P03410	Q8NHG7	1.3877
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22901	P03410	Q3SXR2	1.2658
22902	P03410	Q8N184	0.68671
22903	P03410	Q14240	0.48093
22904	P03410	Q5T752	1.6653
22905	P03410	Q7Z4Y8	0.36834
22906	P03410	Q12894	0.61598
22907	P03410	Q8HWS3	0.17943
22908	P03410	Q14249	0.12251
22909	P03410	Q9BSY9	0.56365
22910	P03410	O75586	0.67422
22911	P03410	Q8IZQ1	0.99732
22912	P03410	P43897	1.9953
22913	P03410	Q9HBU9	0.84707
22914	P03410	Q9UL46	0.6925
22915	P03410	Q13323	0.40236
22916	P03410	Q02241	0.81019
22917	P03410	P55345	0.41528
22918	P03410	Q9BU64	0.61202
22919	P03410	Q5TEZ4	1.6653
22920	P03410	Q53S33	1.4703
22921	P03410	Q9NQ31	1.2575
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22923	P03410	P28074	0.88827
22924	P03410	P0C221	0.18227
22925	P03410	Q9BQ08	1.0699
22926	P03410	P14921	0.89095
22927	P03410	P10909	0.047769
22928	P03410	O95059	0.75727
22929	P03410	Q9BVM2	0.56932
22930	P03410	Q15021	0.92904
22931	P03410	Q2TAP0	0.6587
22932	P03410	Q4KMQ1	1.4181
22933	P03410	O43663	1.0617
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22935	P03410	Q8WYA1	0.26092
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22938	P03410	O75530	0.66038
22939	P03410	Q9NV39	1.6481
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22941	P03410	P55210	0.23771
22942	P03410	Q8N128	1.6653
22943	P03410	Q96RJ6	0.46522
22944	P03410	A6NGY3	0.44154
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22949	P03410	Q9ULW8	0.75553
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22955	P03410	Q9NYU2	0.38775
22956	P03410	O15083	0.90676
22957	P03410	P12074	0.60877
22958	P03410	P52747	0.83357
22959	P03410	P0C025	1.2441
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22966	P03410	Q9H665	0.59272
22967	P03410	P21695	0.21613
22968	P03410	Q8IVC4	0.80657
22969	P03410	Q9NQ88	0.45586
22970	P03410	P17480	1.0259
22971	P03410	Q9HCX3	0.66571
22972	P03410	A8MTZ7	0.37547
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22975	P03410	Q13435	1.1443
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22977	P03410	Q8N9W8	1.9055
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22979	P03410	Q8WUY3	0.50071
22980	P03410	Q8N1P7	0.40164
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22998	P03410	E9PKD4	0.14598
22999	P03410	A6NHS1	1.0305
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23021	P03410	Q15007	0.88868
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23026	P03410	Q13021	0.40115
23027	P03410	Q3MIW9	0.77766
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23203	P14075	Q92764	0.62407
23204	P14075	Q9NZL3	0.44945
23205	P14075	Q9Y2M2	0.42677
23206	P14075	Q69383	0.589
23207	P14075	Q8TB05	0.94025
23208	P14075	Q92797	0.50381
23209	P14075	A1L170	0.63821
23210	P14075	Q9C0F3	0.12672
23211	P14075	Q9P0V3	0.47168
23212	P14075	P13051	0.91006
23213	P14075	P52630	0.46295
23214	P14075	P0C838	0.52542
23215	P14075	Q4G0A6	0.82564
23216	P14075	P48668	0.22406
23217	P14075	Q9P000	0.25196
23218	P14075	B1AJZ1	0.0073782
23219	P14075	Q96MT8	0.70621
23220	P14075	Q9NQG7	0.14398
23221	P14075	Q9BSU1	0.49793
23222	P14075	O75953	0.45785
23223	P14075	Q5VSD8	0.34021
23224	P14075	H0Y354	0.43864
23225	P14075	Q5VTR2	0.50457
23226	P14075	Q969F1	0.52887
23227	P14075	Q8NCT3	0.94288
23228	P14075	Q86UU0	0.78342
23229	P14075	Q86WW8	0.47604
23230	P14075	Q6P2E9	0.71817
23231	P14075	Q96IP4	0.52552
23232	P14075	P53804	0.47131
23233	P14075	A6NFC5	0.58806
23234	P14075	Q14781	0.55159
23235	P14075	Q9H246	0.29763
23236	P14075	P59990	0.78356
23237	P14075	Q494X3	0.30057
23238	P14075	Q8WXC6	0.46749
23239	P14075	A8MT69	0.2372
23240	P14075	Q9BY41	0.23775
23241	P14075	Q9Y5P8	0.37386
23242	P14075	P11387	0.46055
23243	P14075	A8MYA2	0.27688
23244	P14075	Q9UI26	0.15562
23245	P14075	Q9UN30	0.12072
23246	P14075	Q6P4R8	0.78412
23247	P14075	Q9BZZ5	0.15662
23248	P14075	A1A4V9	0.19565
23249	P14075	P17480	0.76479
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23251	P14075	P17029	0.24572
23252	P14075	Q9UBW5	0.31745
23253	P14075	O76014	0.70708
23254	P14075	P49336	0.48027
23255	P14075	Q9P2W6	0.63821
23256	P14075	O95561	0.56893

23257	P14075	Q6ZVN7	0.34062
23258	P14075	Q8N6K4	0.63821
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23260	P14075	P06733	0.62724
23261	P14075	P05204	0.52983
23262	P14075	Q7Z3Z0	0.80046
23263	P14075	Q96BY2	0.28506
23264	P14075	Q68DY1	0.2938
23265	P14075	Q2TAZ0	0.1668
23266	P14075	Q9NVH6	0.32307
23267	P14075	Q8N0U6	0.63821
23268	P14075	P60604	0.19221
23269	P14075	Q96F07	0.27332
23270	P14075	Q6ZR03	0.28496
23271	P14075	Q9NTW7	0.28182
23272	P14075	P78560	0.33407
23273	P14075	Q92545	0.76323
23274	P14075	Q99871	0.30651
23275	P14075	Q6PI97	0.45007
23276	P14075	Q15059	0.98657
23277	P14075	Q15297	0.35567
23278	P14075	Q6ZV77	0.63821
23279	P14075	Q3SYG4	0.36769
23280	P14075	Q6ZTI0	0.63821
23281	P14075	Q9BTM9	0.68115
23282	P14075	Q9P0U1	0.47429
23283	P14075	Q9BQE4	0.40794
23284	P14075	Q9UBS3	0.38908
23285	P14075	Q9P1G2	0.45695
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23287	P14075	A6NFT4	0.26322
23288	P14075	P82979	0.14848
23289	P14075	Q5H9L2	0.79563
23290	P14075	P68871	0.3284
23291	P14075	Q49AS3	0.48488
23292	P14075	E9PI22	0.65129
23293	P14075	P42766	0.54689
23294	P14075	Q96AQ6	0.67534
23295	P14075	Q7Z2E3	0.2593
23296	P14075	P54136	0.57345
23297	P14075	P78537	0.6991
23298	P14075	Q6TFL3	0.14968
23299	P14075	Q15257	0.28209
23300	P14075	Q9UI66	0.63821
23301	P14075	Q8NI51	0.4334
23302	P14075	Q5SWL7	0.50336
23303	P14075	P52292	0.66519
23304	P14075	Q9Y5U2	0.90432
23305	P14075	O14530	0.24124
23306	P14075	Q9HAB8	0.59031
23307	P14075	O43617	0.20877
23308	P14075	Q96M11	0.94876
23309	P14075	Q5JQF7	0.63821
23310	P14075	A8MX34	0.49576
23311	P14075	Q8NB91	0.2161
23312	P14075	A6NLC8	0.81665
23313	P14075	Q96FQ7	0.11439
23314	P14075	H3BU77	0.46379
23315	P14075	Q5H9M0	0.79841
23316	P14075	Q99933	0.51804
23317	P14075	Q9Y6J9	0.60448
23318	P14075	Q96ST3	0.58189
23319	P14075	Q9HBH1	0.56624
23320	P14075	P51003	0.1449
23321	P14075	Q9NSC2	0.2035
23322	P14075	Q8TEV8	0.63821
23323	P14075	Q1W209	0.63821
23324	P14075	P22626	0.42497
23325	P14075	O00566	0.58419
23326	P14075	Q52LJ0	0.60059
23327	P14075	Q96PI1	0.90865
23328	P14075	O00213	0.25006
23329	P14075	P08729	1.0616
23330	P14075	Q16576	0.31899
23331	P14075	Q14511	0.49027
23332	P14075	Q92585	0.75404



23333	P14075	Q15572	0.67745
23334	P14075	A8MV65	0.63967
23335	P14075	O15131	0.76685
23336	P14075	A6NLJ0	1.0292
23337	P14075	Q6ZNM6	0.62405
23338	P14075	Q8TEQ6	0.54295
23339	P14075	O14925	0.22989
23340	P14075	Q9NVA1	0.44327
23341	P14075	Q6IPU0	0.85167
23342	P14075	Q15366	0.6477
23343	P14075	Q12789	0.57691
23344	P14075	P84101	1.0669
23345	P14075	P61575	0.589
23346	P14075	P43355	0.79804
23347	P14075	Q96IU2	0.94459
23348	P14075	Q96EZ4	0.63821
23349	P14075	Q9BS18	0.62224
23350	P14075	Q7L1V2	0.73083
23351	P14075	A6NEH8	0.24216
23352	P14075	Q52LD8	0.61594
23353	P14075	O14646	0.45593
23354	P14075	Q9UHL9	0.40974
23355	P14075	Q9UK73	0.5162
23356	P14075	P35869	0.27055
23357	P14075	Q8IZU1	0.52558
23358	P14075	Q3T8J9	0.38766
23359	P14075	Q9BRP1	0.59532
23360	P14075	Q9BUP3	0.14059
23361	P14075	Q8NC74	0.27214
23362	P14075	Q15819	0.41139
23363	P14075	Q9H7H0	0.49088
23364	P14075	Q6NUR6	0.60388
23365	P14075	Q09666	0.45383
23366	P14075	O60663	0.37128
23367	P14075	P49207	0.63103
23368	P14075	P40925	0.29894
23369	P14075	Q8N1G2	0.16359
23370	P14075	Q5T7P2	0.63821
23371	P14075	Q9H425	0.47857
23372	P14075	B3EWG5	0.94025
23373	P14075	Q8TB33	0.15748
23374	P14075	Q9Y6X4	1.1439
23375	P14075	Q96GX9	0.20394
23376	P14075	O15234	0.77358
23377	P14075	Q8TAD1	0.43632
23378	P14075	P09132	0.10466
23379	P14075	Q9NQE9	0.053464
23380	P14075	Q8TAQ5	0.2118
23381	P14075	Q9P266	0.71234
23382	P14075	Q8TB72	0.33442
23383	P14075	Q9H6R7	0.1474
23384	P14075	Q9BQS6	0.54344
23385	P14075	P63165	0.64365
23386	P14075	Q9BWN1	0.94025
23387	P14075	Q56VL3	0.69389
23388	P14075	Q9HB96	0.63821
23389	P14075	O43156	0.65951
23390	P14075	Q8N6T7	0.40256
23391	P14075	Q8IXS0	0.94025
23392	P14075	P51815	0.14594
23393	P14075	Q9UGC7	0.51551
23394	P14075	Q13505	0.64016
23395	P14075	Q969W3	0.64762
23396	P14075	Q9BUA3	0.71853
23397	P14075	A6NJI1	0.68888
23398	P14075	Q92990	0.29294
23399	P14075	A6NHQ4	0.88236
23400	P14075	P62857	0.40577
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23402	P14075	Q96S65	0.89467
23403	P14075	P62304	0.521
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23405	P14075	Q9GZV5	0.7949
23406	P14075	P51825	0.7714
23407	P14075	Q8NDM7	0.3781
23408	P14075	Q9NTU4	0.74711

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23413	P14075	O95049	0.24992
23414	P14075	Q96QR8	0.35229
23415	P14075	Q15643	0.5604
23416	P14075	Q969S3	0.47367
23417	P14075	Q96GM8	0.19151
23418	P14075	Q9BRJ2	0.21714
23419	P14075	Q9C0E2	0.6423
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23421	P14075	P61580	0.65433
23422	P14075	H3BR10	0.63821
23423	P14075	P63220	0.35782
23424	P14075	Q15929	0.25516
23425	P14075	Q5T5N4	0.20453
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23428	P14075	Q99607	0.81303
23429	P14075	Q8IXW5	0.51167
23430	P14075	Q5HYK3	0.45041
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23432	P14075	Q16543	0.21074
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23439	P14075	P54105	0.6983
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23442	P14075	Q9UJY4	0.2736
23443	P14075	Q96N21	0.65863
23444	P14075	Q02410	0.32958
23445	P14075	Q9NZQ3	0.49337
23446	P14075	O75564	0.23985
23447	P14075	Q9ULX3	0.5545
23448	P14075	Q14746	0.20122
23449	P14075	Q96HJ5	0.21617
23450	P14075	P54253	0.70476
23451	P14075	Q9BTK2	0.27476
23452	P14075	Q05519	0.54111
23453	P14075	Q9H788	0.67868
23454	P14075	Q9H5J4	0.40775
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23456	P14075	Q8WUB2	0.33058
23457	P14075	Q9BSY4	0.48129
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23461	P14075	P61960	0.31428
23462	P14075	Q5T3Y7	0.074952
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23467	P14075	Q8N6V4	0.32313
23468	P14075	Q96E14	0.62693
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23474	P14075	Q8NEJ9	0.39451
23475	P14075	A6NDD8	0.455
23476	P14075	Q9H4X1	0.63637
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23479	P14075	B4DYI2	0.094299
23480	P14075	Q6TDU7	0.31935
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23488	P14075	O43402	0.75836
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23595	P14075	P35659	0.42726
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23648	P14075	Q32M84	0.10677
23649	P14075	Q8N187	0.56873
23650	P14075	Q9ULL5	0.63821
23651	P14075	Q9UHR6	0.65251
23652	P14075	Q9Y3C8	0.14292
23653	P14075	Q9H2F5	0.33686
23654	P14075	Q96KS0	0.049218
23655	P14075	Q99990	0.32173
23656	P14075	P12956	0.11131
23657	P14075	P56537	0.90223
23658	P14075	Q14207	0.77173
23659	P14075	P50548	0.1789
23660	P14075	Q13042	0.93887
23661	P14075	Q8NBJ4	0.42008
23662	P14075	Q7Z2Z1	0.70643
23663	P14075	P11142	0.31373
23664	P14075	Q9BWH6	0.6074
23665	P14075	Q9Y3F4	0.55991
23666	P14075	P20042	0.26771
23667	P14075	Q4V326	0.079883
23668	P14075	Q86SZ3	0.18668
23669	P14075	O00534	0.23851
23670	P14075	Q96IV0	0.29817
23671	P14075	Q9NVI1	0.44901
23672	P14075	Q96B49	0.8303
23673	P14075	Q9BYQ2	0.78356
23674	P14075	P0DMB2	0.46262
23675	P14075	Q96D46	0.72978
23676	P14075	Q9BPY3	0.2397
23677	P14075	Q6L8G8	0.63821
23678	P14075	Q02878	0.63717
23679	P14075	Q8IXT1	0.22967
23680	P14075	Q8WXD5	0.62462
23681	P14075	Q6P1X6	0.90539
23682	P14075	Q16533	0.46517
23683	P14075	Q8N3Z6	0.064392
23684	P14075	Q9UBC9	0.3509
23685	P14075	Q9BRU2	0.26009
23686	P14075	Q96FX8	0.54479
23687	P14075	Q5SRI9	0.71216
23688	P14075	Q00273	0.075974
23689	P14075	B4DXR9	0.28702
23690	P14075	P09496	0.1163
23691	P14075	P24863	0.86352
23692	P14075	Q9GZT9	0.10047
23693	P14075	Q15102	0.07777
23694	P14075	Q86V48	0.89537
23695	P14075	Q8N141	0.31207
23696	P14075	P31350	0.19742
23697	P14075	B1ATL7	0.36209
23698	P14075	Q13105	0.32112
23699	P14075	P28066	0.47523
23700	P14075	P58557	0.95017
23701	P14075	Q9BY89	0.21492
23702	P14075	P07320	0.72901
23703	P14075	P82912	0.52506
23704	P14075	Q8WV07	0.29148
23705	P14075	P55198	0.63466
23706	P14075	O15360	0.51258
23707	P14075	Q04206	0.45926
23708	P14075	A6NHU5	0.43301
23709	P14075	Q96GS4	1.0749
23710	P14075	Q8IXP5	0.94025
23711	P14075	Q9BSW2	0.50609
23712	P14075	Q9NUJ3	0.46467

23713	P14075	Q8IUC3	1.0403
23714	P14075	Q5T0L3	0.83393
23715	P14075	Q156A1	0.63821
23716	P14075	O43809	0.51092
23717	P14075	Q9Y2V0	0.24358
23718	P14075	Q63ZY3	0.66332
23719	P14075	P21675	0.34161
23720	P14075	P58512	0.61032
23721	P14075	Q9H1H9	0.33736
23722	P14075	Q8IVM0	0.31745
23723	P14075	Q8NEY3	0.49185
23724	P14075	Q6ZN08	0.27123
23725	P14075	Q6ZP98	0.46362
23726	P14075	P17482	0.82933
23727	P14075	O14681	0.63203
23728	P14075	Q86YD1	0.64598
23729	P14075	Q8IXR5	0.40244
23730	P14075	B9A014	0.28267
23731	P14075	Q96KQ4	0.63481
23732	P14075	Q9H4I2	0.558
23733	P14075	Q9UKJ3	0.53482
23734	P14075	Q3KRA6	1.0791
23735	P14075	Q6P9F0	0.21887
23736	P14075	Q9H322	0.69734
23737	P14075	A6NIE6	0.39396
23738	P14075	Q9P2I0	0.6188
23739	P14075	Q9NRQ5	0.63821
23740	P14075	Q9P0W5	0.60952
23741	P14075	Q96EH3	0.25205
23742	P14075	Q6P1M9	0.26239
23743	P14075	Q9NWB6	0.94025
23744	P14075	A4QMS7	0.23508
23745	P14075	Q5RHP9	0.39673
23746	P14075	Q96LP4	0.21923
23747	P14075	Q969R5	0.11228
23748	P14075	Q9Y5R5	0.15761
23749	P14075	Q14442	0.19434
23750	P14075	Q969E8	0.92816
23751	P14075	O95067	0.30592
23752	P14075	Q75QN2	0.75559
23753	P14075	Q15750	0.28889
23754	P14075	Q15528	0.95395
23755	P14075	Q8I WV1	0.32472
23756	P14075	Q9BUK0	0.90115
23757	P14075	A1L4Q6	0.16575
23758	P14075	O15265	0.77973
23759	P14075	Q9UM63	0.098535
23760	P14075	Q8N5L8	0.75301
23761	P14075	Q8IYW4	0.023025
23762	P14075	Q9BUL8	0.39232
23763	P14075	P06132	0.4431
23764	P14075	Q569G3	0.94025
23765	P14075	Q495Y7	0.045435
23766	P14075	Q96L21	0.31227
23767	P14075	Q9Y2S7	0.79854
23768	P14075	Q8N3V7	0.56776
23769	P14075	Q7Z591	1.0947
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23771	P14075	Q96H12	0.78141
23772	P14075	Q969Z0	0.37795
23773	P14075	P09913	0.33595
23774	P14075	Q9NX63	0.49245
23775	P14075	P0CAP2	0.38257
23776	P14075	C9JLR9	0.71853
23777	P14075	P51523	0.071849
23778	P14075	P78337	0.2673
23779	P14075	P20810	0.44662
23780	P14075	Q9BQ83	0.48227
23781	P14075	Q96DE0	0.82122
23782	P14075	O00512	0.54229
23783	P14075	P24941	0.48998
23784	P14075	Q5VWI1	0.79226
23785	P14075	Q9H1I8	0.36816
23786	P14075	Q8WU39	0.40535
23787	P14075	P81274	0.3495
23788	P14075	Q8NEE0	0.63821

23789	P14075	Q13573	0.49357
23790	P14075	J3KSC0	0.0026735
23791	P14075	O14603	0.055327
23792	P14075	O60645	0.30682
23793	P14075	Q8WWQ0	0.41685
23794	P14075	Q9Y6H5	0.53745
23795	P14075	Q8N9A8	0.543
23796	P14075	Q9H2C0	0.47824
23797	P14075	Q9GZS1	0.1198
23798	P14075	Q5TGS1	0.24395
23799	P14075	Q8N5H3	0.94025
23800	P14075	Q1W6H9	0.91459
23801	P14075	E9PQX1	0.20371
23802	P14075	Q96HJ3	0.94025
23803	P14075	Q9HBD4	0.40643
23804	P14075	P40424	0.4857
23805	P14075	Q9BPX7	0.62242
23806	P14075	Q9NPC6	0.70639
23807	P14075	Q9BYR0	0.78356
23808	P14075	Q14526	0.41751
23809	P14075	Q9H8W2	0.27351
23810	P14075	Q99865	0.61132
23811	P14075	Q969S8	0.59012
23812	P14075	Q5VZR2	1.0753
23813	P14075	Q8N9W8	1.1182
23814	P14075	Q8N5W9	0.58672
23815	P14075	P51816	0.41631
23816	P14075	P49902	0.15275
23817	P14075	Q8N7X2	0.63821
23818	P14075	A6NEQ2	0.63821
23819	P14075	Q9UBZ9	0.25924
23820	P14075	Q13951	0.49259
23821	P14075	P16989	0.13163
23822	P14075	P52737	0.40586
23823	P14075	O15069	0.10449
23824	P14075	P0C7X2	0.38596
23825	P14075	A2RU37	0.27235
23826	P14075	Q8NHY5	0.6945
23827	P14075	Q9UMS0	0.65276
23828	P14075	Q8N0V3	0.90198
23829	P14075	A1L4L8	0.40582
23830	P14075	Q7Z5V6	0.50401
23831	P14075	Q99687	0.28185
23832	P14075	Q86X60	0.41791
23833	P14075	Q2M2W7	0.94025
23834	P14075	P05783	1.046
23835	P14075	Q9Y3D9	0.16984
23836	P14075	P49006	0.64261
23837	P14075	Q5JUQ0	0.55957
23838	P14075	O75030	0.41538
23839	P14075	Q13067	0.079883
23840	P14075	Q9NV72	0.29359
23841	P14075	Q14683	0.30907
23842	P14075	Q96KR1	0.26905
23843	P14075	P41250	0.22793
23844	P14075	Q8N9E0	0.94025
23845	P14075	Q8IXR9	0.19947
23846	P14075	Q9BSB4	0.18194
23847	P14075	Q13884	0.22686
23848	P14075	Q9HAJ7	0.92333
23849	P14075	Q96GM5	0.63021
23850	P14075	Q5MJ09	0.30202
23851	P14075	Q5D0E6	0.63823
23852	P14075	D6RB28	0.66953
23853	P14075	O96018	0.26831
23854	P14075	Q9H0A9	1.1155
23855	P14075	O60248	0.34844
23856	P14075	Q96N11	0.70128
23857	P14075	Q9UBU8	0.51404
23858	P14075	Q96BY7	0.1178
23859	P14075	Q92966	0.5471
23860	P14075	Q8N813	0.15887
23861	P14075	P62277	0.7914
23862	P14075	P25440	0.32341
23863	P14075	Q96LT6	0.40406
23864	P14075	Q96QT6	0.70192

23865	P14075	P55265	0.24512
23866	P14075	Q9UQR1	0.61182
23867	P14075	Q8NEM1	0.2938
23868	P14075	Q96IM9	0.10219
23869	P14075	Q9NQ32	0.6778
23870	P14075	P53990	0.40002
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23872	P14075	Q9H706	0.1668
23873	P14075	Q08999	1.0658
23874	P14075	P08727	0.80046
23875	P14075	P06744	0.44457
23876	P14075	O97980	0.41629
23877	P14075	Q6P582	0.64529
23878	P14075	Q7Z6J9	0.58774
23879	P14075	P0C880	0.63821
23880	P14075	Q9H8Q6	0.63939
23881	P14075	Q96E09	0.8608
23882	P14075	H0Y7S4	0.10476
23883	P14075	Q9BQN1	0.74487
23884	P14075	Q6NVV7	0.52478
23885	P14075	Q8TD31	0.60534
23886	P14075	Q6ZW61	0.034149
23887	P14075	Q8N5J4	0.26526
23888	P14075	Q15006	0.032464
23889	P14075	Q96SY0	0.0065646
23890	P14075	Q9NX70	0.79367
23891	P14075	Q9NXZ1	0.11619
23892	P14075	Q8N1B4	0.33566
23893	P14075	B3EWG6	0.94025
23894	P14075	Q8N371	0.15051
23895	P14075	P52657	0.88878
23896	P14075	Q9UHT4	0.63821
23897	P14075	Q8WWB5	0.66335
23898	P14075	Q0IIN9	0.3557
23899	P14075	Q8IXJ9	0.54504
23900	P14075	Q5T036	0.38061
23901	P14075	Q17RA5	0.63821
23902	P14075	Q96MT4	0.81829
23903	P14075	Q6EEV6	0.033983
23904	P14075	Q9H1L0	0.65526
23905	P14075	Q6DHV5	0.16016
23906	P14075	Q9Y6D9	0.64542
23907	P14075	Q92844	0.2321
23908	P14075	Q15051	0.36344
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23910	P14075	O14746	0.42529
23911	P14075	P08621	0.28377
23912	P14075	Q9NZ38	0.17505
23913	P14075	O15372	0.42218
23914	P14075	O75607	0.47046
23915	P14075	O75323	0.47282
23916	P14075	Q60888	0.41355
23917	P14075	Q3SYF9	0.63821
23918	P14075	P23025	0.18394
23919	P14075	Q6ZS46	0.93918
23920	P14075	Q9BXQ6	0.63821
23921	P14075	Q96JS3	0.1371
23922	P14075	Q9NUL3	0.38096
23923	P14075	Q9BYQ7	1.0211
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23925	P14075	Q9UK76	0.81714
23926	P14075	Q9NVL1	0.014284
23927	P14075	Q8WXE1	0.43207
23928	P14075	Q5SWW7	0.63821
23929	P14075	Q02241	0.46526
23930	P14075	Q2TAK8	0.36693
23931	P14075	Q5T4T6	0.77873
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23933	P14075	Q96GC5	0.4211
23934	P14075	Q9UBF1	0.52695
23935	P14075	Q3LI61	0.63821
23936	P14075	Q7L2H7	0.36435
23937	P14075	O43663	0.64493
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23939	P14075	Q9UI54	0.63821
23940	P14075	F2Z3M2	0.63821



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23946	P14075	P23381	0.23214
23947	P14075	O95424	0.71944
23948	P14075	Q5PR19	0.17132
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23952	P14075	Q8IXQ6	0.53775
23953	P14075	P62072	0.14262
23954	P14075	Q6ZTY8	0.074477
23955	P14075	Q8NHZ7	0.29476
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23957	P14075	P23284	0.20142
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23959	P14075	Q9BU68	0.73388
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23961	P14075	Q8NC26	0.26464
23962	P14075	Q8N2H4	0.78049
23963	P14075	Q13495	1.038
23964	P14075	Q658K8	0.44005
23965	P14075	Q8WZ69	0.25441
23966	P14075	Q9UPR3	0.66239
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23968	P14075	Q5TG53	0.63821
23969	P14075	P05412	0.62726
23970	P14075	Q16385	0.56798
23971	P14075	P62851	0.6785
23972	P14075	Q5T6V5	0.53707
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23975	P14075	Q15542	0.7286
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23987	P14075	Q9NTX7	0.26925
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23991	P14075	Q5MJ70	0.53769
23992	P14075	P11802	0.62371
23993	P14075	P42226	0.55597
23994	P14075	O95503	0.6738
23995	P14075	Q5BKZ1	0.42458
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23997	P14075	Q96A26	0.24069
23998	P14075	P40425	0.4202
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24003	P14075	Q5VZE5	0.24345
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24005	P14075	O75832	0.31384
24006	P14075	Q96FA7	0.79359
24007	P14075	Q9C075	0.62642
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24023	P14075	P01358	0.63821
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24025	P14075	Q96CW1	0.31134
24026	P14075	Q01543	0.1906
24027	P14075	Q9UMX3	0.36409
24028	P14075	Q9H6R4	0.37906
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24030	P14075	Q9UQR0	0.096658
24031	P14075	Q8NDF8	0.24397
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24057	P14075	Q8WYR1	0.076478
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24062	P14075	Q86VS3	0.047905
24063	P14075	O95182	0.28219
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24066	P14075	P35325	0.63821
24067	P14075	Q9NYV6	0.35839
24068	P14075	Q4LE39	0.78473
24069	P14075	O00186	0.48359
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24071	P14075	Q9NR22	0.19732
24072	P14075	P05060	0.34509
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24077	P14075	Q13166	0.63821
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24079	P14075	Q14160	0.41994
24080	P14075	Q9NX08	0.1668
24081	P14075	Q9UI30	0.27896
24082	P14075	A4D161	0.2661
24083	P14075	A6NKX1	0.63821
24084	P14075	Q14593	0.30184
24085	P14075	P62837	0.38919
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24087	P14075	Q96P70	0.72362
24088	P14075	P23588	0.15722
24089	P14075	P08865	0.51556
24090	P14075	Q5U5X8	0.99622
24091	P14075	Q9BQA1	0.70732
24092	P14075	P14859	0.91563

24093	P14075	Q13618	0.27705
24094	P14075	Q6ZUT1	0.63821
24095	P14075	Q8N4B5	0.90467
24096	P14075	Q5SZJ8	0.089095
24097	P14075	A6NCJ1	0.24575
24098	P14075	O60828	0.50747
24099	P14075	Q6ZUT6	0.66194
24100	P14075	P61576	0.23178
24101	P14075	P60411	0.78356
24102	P14075	Q5VYM1	0.76323
24103	P14075	P22670	0.54891
24104	P14075	Q9Y4C2	0.80726
24105	P14075	Q5VU43	0.61008
24106	P14075	Q9UM82	0.80393
24107	P14075	Q92831	0.60514
24108	P14075	Q16186	0.31754
24109	P14075	P0CI00	0.43974
24110	P14075	A6NHJ4	0.33283
24111	P14075	Q93015	0.79846
24112	P14075	Q7Z4H7	0.6011
24113	P14075	Q9UKX2	0.10299
24114	P14075	A6PVY3	0.25454
24115	P14075	P80297	0.30195
24116	P14075	P11831	0.41708
24117	P14075	C9J6K1	0.57291
24118	P14075	Q562F6	0.51577
24119	P14075	O60481	0.30069
24120	P14075	Q13769	0.40194
24121	P14075	O75410	0.56765
24122	P14075	P52747	0.59231
24123	P14075	Q9BZD3	0.27999
24124	P14075	Q8TAD7	0.94025
24125	P14075	A6NN06	0.63821
24126	P14075	Q96BW9	0.46055
24127	P14075	P11172	0.31747
24128	P14075	O95295	0.25777
24129	P14075	Q8TAA3	0.17908
24130	P14075	A1L443	1.0753
24131	P14075	A6NF83	0.56442
24132	P14075	Q8IV20	0.55317
24133	P14075	Q96MR7	0.87186
24134	P14075	Q8N5D0	0.26263
24135	P14075	A6NCD4	0.32932
24136	P14075	A6NEN9	0.023262
24137	P14075	Q13522	0.057511
24138	P14075	P0C866	0.11385
24139	P14075	O43236	0.25348
24140	P14075	Q9Y3C4	0.4918
24141	P14075	O43395	0.58591
24142	P14075	P62328	0.75046
24143	P14075	Q9BWW4	0.66352
24144	P14075	O43677	0.57816
24145	P14075	Q15554	0.30613
24146	P14075	Q9NYP3	0.72139
24147	P14075	Q6ZST8	0.0159
24148	P14075	Q5TG92	0.52419
24149	P14075	Q15906	0.62244
24150	P14075	Q8N1L9	0.63615
24151	P14075	P61970	0.22584
24152	P14075	Q8N612	0.7903
24153	P14075	Q9NPJ4	1.2096
24154	P14075	P10828	0.38764
24155	P14075	Q9UKZ1	0.96867
24156	P14075	Q96C90	0.47474
24157	P14075	Q9BXJ9	0.50918
24158	P14075	Q96QC0	0.82998
24159	P14075	Q8NEF3	0.21834
24160	P14075	Q9BSI4	0.33936
24161	P14075	Q6P050	0.59526
24162	P14075	Q13296	0.34912
24163	P14075	P49756	0.29207
24164	P14075	Q8N4B4	0.083567
24165	P14075	Q96BZ8	0.94025
24166	P14075	Q13506	0.19422
24167	P14075	Q5TD94	0.23479
24168	P14075	Q9P2H0	0.33171

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24170	P14075	Q8NA42	0.14434
24171	P14075	Q99615	0.54599
24172	P14075	P78545	0.63651
24173	P14075	Q86UE4	0.41789
24174	P14075	A6NJR5	0.53769
24175	P14075	O60308	0.34839
24176	P14075	Q14588	0.2118
24177	P14075	Q99619	0.50366
24178	P14075	Q8N9P6	0.63821
24179	P14075	Q13064	0.10937
24180	P14075	A6NGY1	0.68261
24181	P14075	P78395	0.67348
24182	P14075	A6NGG3	0.63821
24183	P14075	Q96Q83	0.33236
24184	P14075	Q9NRJ2	0.63821
24185	P14075	Q49MG5	0.75766
24186	P14075	A6NP61	0.63255
24187	P14075	Q92782	0.36251
24188	P14075	O76095	0.24162
24189	P14075	Q6ZVC0	0.6106
24190	P14075	Q9H2T7	0.21275
24191	P14075	Q8N6T0	0.3752
24192	P14075	Q6ZUT4	0.54705
24193	P14075	Q8N9R8	0.56349
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24195	P14075	O14787	0.70074
24196	P14075	Q9UKT4	0.66892
24197	P14075	Q8WXF5	0.50859
24198	P14075	Q86XF7	0.36328
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24200	P14075	Q9BRT7	0.63821
24201	P14075	Q15697	0.28011
24202	P14075	O75791	0.68547
24203	P14075	Q8NB50	0.22707
24204	P14075	Q9NPD3	0.18534
24205	P14075	Q6EEV4	0.63821
24206	P14075	Q8TC05	0.76127
24207	P14075	O43752	0.21412
24208	P14075	Q10571	0.42008
24209	P14075	P60900	0.30442
24210	P14075	P17861	0.42949
24211	P14075	Q15014	0.87304
24212	P14075	O60732	0.1668
24213	P14075	O60765	0.18055
24214	P14075	Q8N9P0	0.35585
24215	P14075	Q7L0Y3	0.68031
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24217	P14075	Q08945	0.8172
24218	P14075	P49427	0.36945
24219	P14075	Q86XE5	0.53312
24220	P14075	P34896	0.083289
24221	P14075	Q92845	0.050097
24222	P14075	Q9NT62	0.27157
24223	P14075	Q9NQS7	0.60238
24224	P14075	O95397	0.6834
24225	P14075	Q5T749	0.93733
24226	P14075	Q9Y6X3	0.74592
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24228	P14075	Q15562	0.63425
24229	P14075	Q6ZNG1	0.22707
24230	P14075	Q7Z465	0.39554
24231	P14075	Q9HD34	0.46303
24232	P14075	A1L3X4	0.63821
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24235	P14075	P27695	0.32257
24236	P14075	Q9Y2A4	0.30068
24237	P14075	Q8N140	0.59535
24238	P14075	O43427	0.25412
24239	P14075	Q8IWZ3	0.69844
24240	P14075	Q9UFG5	0.39241
24241	P14075	P51532	0.33786
24242	P14075	Q8IXQ4	0.94025
24243	P14075	P62244	0.47929
24244	P14075	Q96HP8	0.95192

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24246	P14075	Q6U7Q0	0.12954
24247	P14075	P28347	0.76954
24248	P14075	Q8WVM7	0.55807
24249	P14075	O75143	0.96811
24250	P14075	Q96HT8	1.1974
24251	P14075	A6NEM1	0.66953
24252	P14075	Q6ZS49	0.63821
24253	P14075	Q8WTT2	0.23511
24254	P14075	O60516	0.20884
24255	P14075	P51959	0.36837
24256	P14075	Q9Y3Y2	1.0326
24257	P14075	Q9H7T9	0.45354
24258	P14075	P30876	0.45925
24259	P14075	Q9H0S4	0.021822
24260	P14075	Q9BRP8	0.81265
24261	P14075	P49406	0.37802
24262	P14075	P40222	0.46758
24263	P14075	Q15532	0.73327
24264	P14075	Q9UMS5	0.86655
24265	P14075	Q8IWD4	0.94025
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24273	P14075	Q5BN46	0.3115
24274	P14075	Q9UNY4	0.33152
24275	P14075	Q8TD23	0.45366
24276	P14075	O15127	0.37333
24277	P14075	Q2LD37	0.20013
24278	P14075	A6NK89	0.53976
24279	P14075	Q96GY0	0.80893
24280	P14075	Q9H1Y0	0.3016
24281	P14075	Q9UHR5	0.93707
24282	P14075	P40855	0.32755
24283	P14075	Q07666	0.31705
24284	P14075	Q8NAE3	0.39536
24285	P14075	Q9NX20	0.48896
24286	P14075	Q3LI81	1.0514
24287	P14075	Q53FD0	0.78008
24288	P14075	A6NCN8	0.94025
24289	P14075	P61579	0.589
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24291	P14075	Q9GZP8	0.63821
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24297	P14075	Q76L83	0.41695
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24305	P14075	P38432	0.63017
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24307	P14075	Q9H2L5	0.54134
24308	P14075	Q8NHS9	0.28241
24309	P14075	P0CB33	0.28156
24310	P14075	Q8N5I9	0.94025
24311	P14075	Q9UM11	0.83486
24312	P14075	Q86WX3	0.80821
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24314	P14075	A6NNH0	0.76395
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24316	P14075	P08708	0.2332
24317	P14075	P52736	0.42046
24318	P14075	Q4G0G2	0.3059
24319	P14075	Q96MR9	0.25355
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24326	P14075	Q15937	0.13498
24327	P14075	Q6ZTU2	0.72639
24328	P14075	A8MVJ9	0.48581
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24332	P14075	Q5MIZ7	0.2151
24333	P14075	Q6ZU67	0.3676
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24335	P14075	Q8NCQ2	0.46388
24336	P14075	Q9H9G7	0.4624
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24338	P14075	Q9BXM0	0.49265
24339	P14075	Q9UKN5	0.066988
24340	P14075	Q8N1B3	0.43901
24341	P14075	Q9BY42	0.527
24342	P14075	Q9C086	1.1042
24343	P14075	Q01831	0.3875
24344	P14075	Q9NWX8	0.36308
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24346	P14075	Q9UHP9	0.1942
24347	P14075	Q8N5F7	1.02
24348	P14075	Q9NSD9	0.63522
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24351	P14075	Q86YC2	0.37917
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24354	P14075	Q02083	0.26097
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24357	P14075	Q14686	0.71482
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24359	P14075	Q0D2K3	0.78689
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24361	P14075	Q9H7B2	0.686
24362	P14075	Q96R06	0.64689
24363	P14075	Q14493	0.60878
24364	P14075	Q9BUT9	1.1254
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24366	P14075	Q8IYW2	0.63821
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24370	P14075	Q01201	0.72389
24371	P14075	Q92674	0.16565
24372	P14075	Q6IN84	0.23178
24373	P14075	Q9UL46	0.25426
24374	P14075	Q6ZS94	0.63821
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24387	P14075	Q6L8H4	0.63821
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24396	P14075	Q8WVK7	0.38776

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24400	P14075	Q6ZU65	0.2882
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24406	P14075	Q70YC4	0.5725
24407	P14075	Q5T8A7	0.7274
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24410	P14075	Q8IVS8	0.037129
24411	P14075	Q8IXQ3	0.28211
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24415	P14075	P57740	0.56936
24416	P14075	Q9H116	0.15245
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24418	P14075	P17275	0.70702
24419	P14075	Q9Y5N6	0.34658
24420	P14075	Q9NVR2	0.66555
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24422	P14075	Q9Y4A8	0.31044
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24425	P14075	P30281	0.53622
24426	P14075	Q6ZYL4	0.78708
24427	P14075	K7EIZ4	0.63821
24428	P14075	P30279	0.44411
24429	P14075	Q8WUX9	0.20428
24430	P14075	Q7L2R6	0.27773
24431	P14075	Q96C03	0.57578
24432	P14075	Q96DM3	0.225
24433	P14075	P82094	0.90424
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24443	P14075	Q15459	0.47234
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24455	P14075	Q8TE85	0.093429
24456	P14075	Q8WUE5	0.17571
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24458	P14075	Q5VZQ5	0.56438
24459	P14075	Q96HW7	0.40543
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24461	P14075	O75362	0.54868
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24484	P14075	Q3LI68	0.85226
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24490	P14075	Q5VT40	0.70918
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24492	P14075	Q9P2R6	0.81949
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24494	P14075	Q6P4D5	0.90484
24495	P14075	P86479	0.63821
24496	P14075	Q8WWR8	0.07912
24497	P14075	Q86XI2	0.54195
24498	P14075	Q8WYP5	0.47295
24499	P14075	P46778	0.38311
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24513	P14075	Q9NSI6	0.6037
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24515	P14075	Q8N365	0.94025
24516	P14075	P50613	0.15891
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24519	P14075	Q9UBF2	0.10613
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24525	P14075	Q99457	0.34187
24526	P14075	Q9BRQ3	0.83225
24527	P14075	Q8IUW3	0.552
24528	P14075	Q9NX18	0.70599
24529	P14075	Q16822	0.16326
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24532	P14075	P59037	0.65279
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24534	P14075	Q2KJ03	0.17658
24535	P14075	O75394	0.50018
24536	P14075	Q495Y8	0.53769
24537	P14075	Q8NHV4	0.39395
24538	P14075	Q6PH81	0.55787
24539	P14075	P41218	0.30049
24540	P14075	Q7Z460	0.24206
24541	P14075	Q9P1D8	0.63821
24542	P14075	Q68D10	0.94025
24543	P14075	Q8IUC1	0.31219
24544	P14075	Q9BX26	0.88482
24545	P14075	Q8N2B8	0.22782
24546	P14075	P19419	0.99837
24547	P14075	H3BMG3	0.4407
24548	P14075	Q3ZCQ2	0.63821



24549	P14075	Q5H9F3	0.37218
24550	P14075	P41212	0.58689
24551	P14075	Q9Y312	0.26928
24552	P14075	Q9H467	0.72315
24553	P14075	Q9NSB4	0.48911
24554	P14075	P26651	0.44287
24555	P14075	Q8IV36	0.27729
24556	P14075	Q12905	0.83992
24557	P14075	Q8TCE6	0.99766
24558	P14075	Q14241	0.28948
24559	P14075	Q9H446	0.1668
24560	P14075	Q9GZL7	0.51425
24561	P14075	Q92600	0.85246
24562	P14075	Q52LA3	0.55313
24563	P14075	Q6P9A1	0.24912
24564	P14075	Q6P1M3	0.65729
24565	P14075	Q9H019	0.81172
24566	P14075	Q9Y6Z4	0.16405
24567	P14075	P18847	0.94154
24568	P14075	Q8WVC0	0.75365
24569	P14075	P78559	0.3121
24570	P14075	Q01860	0.50318
24571	P14075	Q9BYU5	0.43615
24572	P14075	Q9UPP1	0.31544
24573	P14075	Q9UBD5	0.32816
24574	P14075	Q9BRX2	0.18454
24575	P14075	H3BN30	0.63821
24576	P14075	P36639	0.11394
24577	P14075	A1A5D9	0.68819
24578	P14075	Q9Y6F6	0.24907
24579	P14075	Q5H9J7	0.6992
24580	P14075	Q6ZW49	0.2232
24581	P14075	Q9HCM7	0.69266
24582	P14075	Q14139	0.38268
24583	P14075	Q86TU7	0.12512
24584	P14075	P28698	0.4992
24585	P14075	Q5T7N7	0.63821
24586	P14075	Q9ULU4	0.30061
24587	P14075	Q6PI26	0.77654
24588	P14075	Q96BR5	0.025572
24589	P14075	Q6ZSJ8	0.94025
24590	P14075	Q9NY61	0.61425
24591	P14075	Q96G28	0.19421
24592	P14075	Q8NCX0	0.28286
24593	P14075	Q95177	0.19524
24594	P14075	Q9Y468	0.71776
24595	P14075	Q9NS64	0.7393
24596	P14075	Q9UI25	0.63821
24597	P14075	Q96M34	0.15487
24598	P14075	P61201	0.34381
24599	P14075	Q8N782	0.2846
24600	P14075	P09234	0.35616
24601	P14075	Q9BQ15	0.55694
24602	P14075	P38159	0.47278
24603	P14075	Q9H7R0	0.26082
24604	P14075	P13985	0.63821
24605	P14075	Q14598	0.89699
24606	P14075	Q8TAA5	0.39522
24607	P14075	Q3LHN1	0.63821
24608	P14075	Q9NX46	0.31407
24609	P14075	Q75MW2	0.49693
24610	P14075	P38935	0.31016
24611	P14075	Q6ZSR9	0.023467
24612	P14075	Q9HBX3	0.63821
24613	P14075	Q96SL8	0.080621
24614	P14075	P60510	0.55807
24615	P14075	Q86UW6	0.12834
24616	P14075	Q96M91	0.92896
24617	P14075	Q6ICG8	1.0799
24618	P14075	A5PLN9	0.65916
24619	P14075	Q95886	0.70937
24620	P14075	Q6ZQR2	0.80198
24621	P14075	Q96GU1	0.35213
24622	P14075	Q9UGP4	0.31554
24623	P14075	Q15037	0.36462
24624	P14075	Q14839	0.36782

24625	P14075	Q6ZS92	0.25823
24626	P14075	Q9UBD0	0.85108
24627	P14075	Q8N6L1	0.62109
24628	P14075	Q03933	0.49752
24629	P14075	A8K554	0.051629
24630	P14075	Q9BX40	0.59986
24631	P14075	Q9HC44	1.2608
24632	P14075	Q9UHT9	0.63821
24633	P14075	Q9NPI8	0.61201
24634	P14075	Q6NSH3	0.49813
24635	P14075	P48380	0.33335
24636	P14075	P34949	0.35538
24637	P14075	Q5TAB7	0.58995
24638	P14075	Q9BQD3	0.18389
24639	P14075	Q9UH64	0.21723
24640	P14075	P59090	0.63821
24641	P14075	P42768	0.12831
24642	P14075	Q96KT6	0.63821
24643	P14075	Q8IZM0	0.33898
24644	P14075	Q92945	0.52477
24645	P14075	Q53GS7	0.41936
24646	P14075	Q5GJ75	0.0031367
24647	P14075	Q5TG08	0.83777
24648	P14075	P51610	0.30974
24649	P14075	P62633	0.31576
24650	P14075	Q13561	0.44947
24651	P14075	Q9Y2Y0	0.73213
24652	P14075	Q33E94	0.61509
24653	P14075	Q86SZ2	0.49499
24654	P14075	Q5JTJ3	0.16981
24655	P14075	O15527	0.2933
24656	P14075	Q14153	0.73401
24657	P14075	Q9BSU3	0.24483
24658	P14075	Q9HBT7	0.18018
24659	P14075	Q92973	0.78332
24660	P14075	Q8IY31	0.29249
24661	P14075	Q6ZU52	0.22045
24662	P14075	Q15652	0.2875
24663	P14075	O75419	0.65396
24664	P14075	Q9NTI7	0.90131
24665	P14075	Q93100	0.30788
24666	P14075	Q86WB0	0.99021
24667	P14075	O15015	0.39205
24668	P14075	P35548	0.45448
24669	P14075	P20700	0.19332
24670	P14075	Q96C28	0.27983
24671	P14075	P11161	0.31021
24672	P14075	Q969H9	0.63821
24673	P14075	Q8NC51	0.48148
24674	P14075	Q12837	0.33374
24675	P14075	Q15561	0.69234
24676	P14075	Q6ZQV5	0.2118
24677	P14075	H0UI37	0.25405
24678	P14075	Q7Z3B3	0.32225
24679	P14075	Q9NYP8	0.44152
24680	P14075	Q5VV17	0.064158
24681	P14075	P61573	0.589
24682	P14075	Q9NTX9	0.38163
24683	P14075	Q9NVN8	0.17744
24684	P14075	Q53HV7	0.35759
24685	P14075	Q6DCA0	0.17539
24686	P14075	P15172	0.2416
24687	P14075	A4D2B0	0.63106
24688	P14075	Q15428	0.39384
24689	P14075	Q6PGP7	0.48277
24690	P14075	Q96ND8	0.3005
24691	P14075	Q6P1X5	0.65017
24692	P14075	O00541	0.29851
24693	P14075	P49792	0.63219
24694	P14075	Q5VXH4	0.2982
24695	P14075	Q969T9	0.87844
24696	P14075	Q9Y2D8	0.38331
24697	P14075	P17096	0.37621
24698	P14075	Q92783	0.34279
24699	P14075	Q49A88	0.55434
24700	P14075	Q15327	0.2371

24701	P14075	Q9NWN3	0.29485
24702	P14075	Q9Y606	0.76998
24703	P14075	Q9Y4P1	0.35818
24704	P14075	P56524	0.21228
24705	P14075	Q96MH7	0.059526
24706	P14075	Q9H8V8	0.63821
24707	P14075	Q96PU4	0.24131
24708	P14075	P05813	0.31048
24709	P14075	Q5JT18	0.63821
24710	P14075	A5PLN7	0.94025
24711	P14075	Q00994	0.75094
24712	P14075	Q2M329	0.39103
24713	P14075	O60813	0.28377
24714	P14075	Q9BV20	0.28082
24715	P14075	Q9UK11	0.23581
24716	P14075	Q3LI60	0.63821
24717	P14075	Q8N1F7	0.39819
24718	P14075	Q9NTM9	0.027251
24719	P14075	Q96HQ2	0.92508
24720	P14075	O43918	0.74097
24721	P14075	Q9NP79	0.015904
24722	P14075	P17036	0.24165
24723	P14075	Q92917	0.66601
24724	P14075	Q99747	0.31774
24725	P14075	O00422	0.97042
24726	P14075	P51965	0.30957
24727	P14075	Q01844	0.41741
24728	P14075	Q96IZ7	0.9523
24729	P14075	A8K8P3	0.49059
24730	P14075	O14709	0.2118
24731	P14075	Q8NDZ9	0.63821
24732	P14075	P05388	0.9333
24733	P14075	Q96IY1	0.64831
24734	P14075	Q08050	0.32541
24735	P14075	Q9NSB2	0.62301
24736	P14075	Q15714	0.60287
24737	P14075	Q49AJ0	0.25585
24738	P14075	Q13257	0.50877
24739	P14075	Q53G59	0.36399
24740	P14075	Q9H9Z2	0.53732
24741	P14075	H3BQW9	0.6611
24742	P14075	Q5T681	0.83544
24743	P14075	Q8TF01	1.0059
24744	P14075	O43186	0.57798
24745	P14075	Q68CZ6	0.32838
24746	P14075	P0CW21	0.63821
24747	P14075	Q5PSV4	0.16676
24748	P14075	P18146	0.50432
24749	P14075	Q13015	0.55637
24750	P14075	O60930	0.11949
24751	P14075	Q13442	0.57373
24752	P14075	Q2VPJ9	0.94025
24753	P14075	P41252	0.46193
24754	P14075	Q5VWN6	0.19175
24755	P14075	Q9UJW3	0.40918
24756	P14075	Q9BXR0	0.94409
24757	P14075	Q9NYW8	0.12763
24758	P14075	Q00534	0.46937
24759	P14075	A8K5M9	0.81159
24760	P14075	Q9HC77	0.45995
24761	P14075	P19484	0.31253
24762	P14075	Q9NRP2	0.75196
24763	P14075	Q9HCE1	0.49809
24764	P14075	Q9NQG5	0.82645
24765	P14075	P26641	0.22842
24766	P14075	Q9NRT5	0.40716
24767	P14075	P78344	0.21212
24768	P14075	Q8IZQ1	0.38418
24769	P14075	Q8NE18	1.0009
24770	P14075	A6NN90	0.38936
24771	P14075	O95257	0.2591
24772	P14075	P18669	0.55532
24773	P14075	Q96EZ8	0.44529
24774	P14075	Q9Y3D3	0.58858
24775	P14075	P0C7T5	0.43125
24776	P14075	Q8N159	0.23016

24777	P14075	Q9H761	0.29335
24778	P14075	Q15047	0.45186
24779	P14075	Q7L4I2	1.2359
24780	P14075	O75312	0.28294
24781	P14075	P02810	0.63821
24782	P14075	Q16384	0.39489
24783	P14075	Q9P1T7	0.98115
24784	P14075	O60675	0.22573
24785	P14075	Q9BZK3	0.24811
24786	P14075	O95521	0.36986
24787	P14075	O95625	0.067017
24788	P14075	A6NER3	0.079883
24789	P14075	P06746	0.24382
24790	P14075	Q96TC7	0.63083
24791	P14075	A1L429	0.45588
24792	P14075	Q99576	0.29258
24793	P14075	Q14320	0.21912
24794	P14075	P29084	0.94701
24795	P14075	Q86VX9	0.72338
24796	P14075	Q96T21	0.5623
24797	P14075	Q969U7	0.37862
24798	P14075	P80217	0.36639
24799	P14075	Q8N3U1	0.63821
24800	P14075	O95619	0.59117
24801	P14075	A1L190	0.81328
24802	P14075	Q96RK0	0.68205
24803	P14075	Q16520	0.70259
24804	P14075	O95931	0.57698
24805	P14075	Q9NZ52	0.25406
24806	P14075	Q3LI73	0.78906
24807	P14075	Q6ECI4	0.19334
24808	P14075	Q9Y6J3	0.63821
24809	P14075	Q6IA86	0.35266
24810	P14075	Q86VE0	0.95874
24811	P14075	Q70EL1	0.30278
24812	P14075	Q86X02	0.1853
24813	P14075	Q9HD33	0.69348
24814	P14075	Q9Y2N7	0.32444
24815	P14075	Q8N336	0.31174
24816	P14075	Q8TE76	0.078671
24817	P14075	P0CF75	0.19965
24818	P14075	O43790	0.70038
24819	P14075	P42771	0.41785
24820	P14075	P41220	0.25232
24821	P14075	Q6ZRM9	0.66314
24822	P14075	Q5T5A8	0.63821
24823	P14075	Q7LBC6	0.021314
24824	P14075	B2RV13	0.55755
24825	P14075	P20265	0.49382
24826	P14075	Q9UBQ0	0.32751
24827	P14075	P33076	0.33116
24828	P14075	Q5TZK3	0.040278
24829	P14075	Q9HCH0	0.98719
24830	P14075	Q5T870	0.72916
24831	P14075	Q6RSH7	0.22583
24832	P14075	Q8WWX9	0.19414
24833	P14075	F7VJQ1	0.63821
24834	P14075	P0C2W7	0.63821
24835	P14075	Q9UH92	0.61766
24836	P14075	Q9BW61	0.56727
24837	P14075	Q53H80	0.30627
24838	P14075	P83881	0.49283
24839	P14075	P17661	0.28304
24840	P14075	P04156	0.31096
24841	P14075	Q5VV11	0.16221
24842	P14075	Q96LI9	0.43263
24843	P14075	O00629	0.26492
24844	P14075	Q9NPJ8	0.2275
24845	P14075	Q5UE93	0.42549
24846	P14075	Q8TDC0	0.43925
24847	P14075	Q86WS4	0.63821
24848	P14075	O14734	0.41379
24849	P14075	P82650	0.13041
24850	P14075	Q9H374	0.29603
24851	P14075	Q16613	0.19918
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24853	P14075	P54920	0.2117
24854	P14075	Q16537	0.12467
24855	P14075	Q8WTX7	0.69586
24856	P14075	O15226	0.58315
24857	P14075	Q8N268	0.058695
24858	P14075	Q86VN1	0.23581
24859	P14075	Q8NDN9	0.41146
24860	P14075	Q676U5	0.42455
24861	P14075	Q9BWK5	0.98003
24862	P14075	P14136	0.60184
24863	P14075	A6NME0	0.34001
24864	P14075	Q9BYG4	0.43699
24865	P14075	Q13620	0.52852
24866	P14075	Q99613	0.44281
24867	P14075	P19388	0.4328
24868	P14075	Q3MIS6	0.29291
24869	P14075	O75363	0.41785
24870	P14075	Q7KZ85	0.27839
24871	P14075	Q92870	0.47417
24872	P14075	Q9H321	0.89699
24873	P14075	Q9Y603	0.94184
24874	P14075	Q9HCH5	0.34293
24875	P14075	Q13515	0.90592
24876	P14075	O95400	0.52621
24877	P14075	P49750	0.88422
24878	P14075	P48634	0.55947
24879	P14075	Q9BZK8	0.63821
24880	P14075	Q9P086	0.80648
24881	P14075	O94776	0.76878
24882	P14075	B2CW77	0.63821
24883	P14075	Q6MZT1	0.68144
24884	P14075	Q01130	0.55543
24885	P14075	O75925	0.38281
24886	P14075	Q5TBB1	0.74061
24887	P14075	Q5VZL5	0.70403
24888	P14075	Q9BRQ4	0.32208
24889	P14075	Q86V42	0.74242
24890	P14075	Q9BXS6	0.56934
24891	P14075	O60232	0.81451
24892	P14075	Q9HAH1	0.24135
24893	P14075	Q6ZRH4	1.0495
24894	P14075	Q9Y244	0.23153
24895	P14075	P10244	0.35059
24896	P14075	Q96MY1	0.79149
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24898	P14075	P61218	0.1659
24899	P14075	Q5T753	0.63821
24900	P14075	Q5HYK7	0.81116
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24914	P14075	P35638	0.57906
24915	P14075	Q9Y3F1	0.63821
24916	P14075	Q9NP50	0.8627
24917	P14075	Q719H9	0.44577
24918	P14075	Q8TDY2	0.63031
24919	P14075	P13073	0.30766
24920	P14075	Q96PY0	0.28748
24921	P14075	P50750	0.36746
24922	P14075	P15822	0.59407
24923	P14075	Q8IYX7	0.95729
24924	P14075	Q15070	0.23197
24925	P14075	Q8TD35	0.94025
24926	P14075	Q16548	0.34185
24927	P14075	O15117	0.6328
24928	P14075	P19367	0.1965

24929	P14075	P41236	0.75956
24930	P14075	Q5VZV4	0.56584
24931	P14075	Q6AWC8	0.73023
24932	P14075	Q49AR2	0.63362
24933	P14075	A6NL46	0.63038
24934	P14075	O75821	0.35351
24935	P14075	O95218	0.41487
24936	P14075	A7E2U8	0.35674
24937	P14075	Q9Y4K1	0.65175
24938	P14075	O95777	0.41529
24939	P14075	Q7Z7F1	0.0074033
24940	P14075	O60583	0.75127
24941	P14075	P42568	0.64816
24942	P14075	Q9UIF7	0.13311
24943	P14075	Q92994	0.15885
24944	P14075	Q9UN81	0.38778
24945	P14075	H3BNL1	0.40897
24946	P14075	Q7L5Y9	0.19304
24947	P14075	Q53EQ6	0.37896
24948	P14075	Q9Y2Z2	0.86548
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24951	P14075	Q9Y2A0	0.42494
24952	P14075	Q9BT04	0.36123
24953	P14075	Q96FN9	0.48553
24954	P14075	A8MUI8	0.43821
24955	P14075	Q9UNP9	0.27182
24956	P14075	A8MT65	0.25328
24957	P14075	Q6ISB3	0.3936
24958	P14075	O00287	0.61425
24959	P14075	Q8TEA8	0.81979
24960	P14075	Q96NA2	0.78891
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24962	P14075	O95363	0.44767
24963	P14075	Q5T653	0.57634
24964	P14075	P46777	0.90651
24965	P14075	Q9H840	0.62438
24966	P14075	O95997	0.68588
24967	P14075	Q9Y250	0.7391
24968	P14075	Q7Z4G1	1.1566
24969	P14075	P0C7W0	0.94025
24970	P14075	Q8N9Z2	0.84554
24971	P14075	Q02080	0.22249
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24973	P14075	A6PW82	0.47064
24974	P14075	Q8NA69	0.27242
24975	P14075	Q9GZQ3	0.85723
24976	P14075	Q9ULX9	0.25153
24977	P14075	O75170	0.59982
24978	P14075	Q6ZS72	0.48817
24979	P14075	Q86VQ0	0.1928
24980	P14075	Q8WZA8	0.63821
24981	P14075	P22732	0.47499
24982	P14075	Q96PS1	0.6406
24983	P14075	Q5T440	0.27295
24984	P14075	Q96H22	0.51352
24985	P14075	Q96EF9	0.51137
24986	P14075	Q96G03	0.50128
24987	P14075	Q9NX53	0.1668
24988	P14075	Q5SRH9	0.8321
24989	P14075	O43172	0.51544
24990	P14075	Q5H9J9	0.4382
24991	P14075	Q6P1L8	0.7383
24992	P14075	P19012	0.80046
24993	P14075	Q13510	0.54162
24994	P14075	Q9NQ31	0.47065
24995	P14075	Q96QA5	0.39977
24996	P14075	Q1T7F1	0.20116
24997	P14075	Q93062	0.64132
24998	P14075	Q8TF40	0.5836
24999	P14075	Q9H825	0.14495
25000	P14075	Q15910	0.32146
25001	P14075	Q5JS54	0.71048
25002	P14075	Q6NV74	0.94025
25003	P14075	Q96IT1	0.44189
25004	P14075	Q9HB03	0.40775

25005	P14075	Q86TA1	0.14228
25006	P14075	P11844	0.70051
25007	P14075	Q9UKX7	0.81795
25008	P14075	P29692	0.15807
25009	P14075	Q96EY4	0.50916
25010	P14075	Q9HD26	0.68559
25011	P14075	O95433	0.32774
25012	P14075	O15453	0.44013
25013	P14075	O43684	0.47946
25014	P14075	O60296	0.38217
25015	P14075	Q9GZV4	0.41834
25016	P14075	P57076	0.4436
25017	P14075	Q96A04	0.73048
25018	P14075	Q9BTP7	0.63438
25019	P14075	A6NL82	0.64102
25020	P14075	Q4W4Y0	0.2985
25021	P14075	P0CL81	0.45588
25022	P14075	Q9Y3U8	0.57095
25023	P14075	Q9BVG4	0.32131
25024	P14075	P04792	0.25246
25025	P14075	Q53ET0	1.1714
25026	P14075	Q96SN8	0.24433
25027	P14075	Q9NVF7	0.8608
25028	P14075	Q96LM1	0.61964
25029	P14075	P04280	0.70558
25030	P14075	Q6UVJ0	0.57357
25031	P14075	Q8N1Q8	0.44137
25032	P14075	P56182	0.53883
25033	P14075	P02728	0.63821
25034	P14075	P78347	0.45062
25035	P14075	Q92988	0.38762
25036	P14075	O43167	0.39205
25037	P14075	Q8N9H6	0.28265
25038	P14075	Q9NUQ6	0.11945
25039	P14075	P31943	0.35146
25040	P14075	P40926	0.17722
25041	P14075	Q8NEP4	0.94025
25042	P14075	Q5SWA1	0.46203
25043	P14075	P62249	0.47832
25044	P14075	Q8IVG9	0.45022
25045	P14075	Q9BYQ8	0.78356
25046	P14075	Q9BZG8	0.17374
25047	P14075	Q8TF09	0.41524
25048	P14075	Q8NHV5	0.15877
25049	P14075	Q9H7E9	0.94025
25050	P14075	P63162	0.419
25051	P14075	Q7Z7C8	0.32582
25052	P14075	Q92890	0.47291
25053	P14075	O14933	0.13004
25054	P14075	P59051	0.37169
25055	P14075	Q9BYP9	0.78356
25056	P14075	Q16082	0.60379
25057	P14075	A6NLX3	0.32941
25058	P14075	Q96CT7	0.15766
25059	P14075	Q12906	0.85928
25060	P14075	Q92800	0.34835
25061	P14075	Q13216	0.24422
25062	P14075	P23490	0.56784
25063	P14075	Q9H2W6	0.3418
25064	P14075	Q8WUY3	0.11724
25065	P14075	Q99543	0.25247
25066	P14075	Q75NE6	1.0062
25067	P14075	Q13601	0.17716
25068	P14075	O15397	0.59793
25069	P14075	Q86UF4	0.21375
25070	P14075	Q5VUE5	0.37558
25071	P14075	A6NFL8	0.71412
25072	P14075	Q9H7N4	0.71076
25073	P14075	Q9P242	0.6106
25074	P14075	Q8WY50	0.63821
25075	P14075	Q86U90	0.50384
25076	P14075	P39687	1.0796
25077	P14075	O75175	1.0079
25078	P14075	Q6PK04	0.80319
25079	P14075	Q05DH4	0.95406
25080	P14075	Q5TAX3	0.48697

25081	P14075	Q8NCN5	0.074286
25082	P14075	Q9H074	0.23874
25083	P14075	O00625	0.40069
25084	P14075	Q5SXM2	0.42766
25085	P14075	Q9NYK6	0.54402
25086	P14075	Q8N5N7	0.65854
25087	P14075	Q9BSJ6	0.33335
25088	P14075	Q15544	0.86031
25089	P14075	Q9H091	0.2858
25090	P14075	P49005	0.34268
25091	P14075	Q8WUF5	0.61688
25092	P14075	Q7Z614	0.25113
25093	P14075	Q3LI58	0.63821
25094	P14075	F8W1W9	0.20092
25095	P14075	P78371	0.33257
25096	P14075	Q6P444	0.81172
25097	P14075	Q8IUD2	0.60791
25098	P14075	P45973	0.48918
25099	P14075	O95159	0.40377
25100	P14075	Q93075	0.57894
25101	P14075	Q9HAW0	0.24595
25102	P14075	Q02040	0.5432
25103	P14075	Q86UB2	0.72124
25104	P14075	Q9NNX9	0.96999
25105	P14075	Q6IPT2	1.1182
25106	P14075	Q53G26	0.35989
25107	P14075	Q9UK41	0.447
25108	P14075	P0C853	0.63821
25109	P14075	Q9UFW8	0.155
25110	P14075	O15027	0.42474
25111	P14075	Q0VD67	0.019594
25112	P14075	Q14157	0.64801
25113	P14075	Q8TAF7	0.28409
25114	P14075	C9J3I9	0.45142
25115	P14075	P0DL12	0.40859
25116	P14075	Q99717	0.25517
25117	P14075	Q8N769	0.084911
25118	P14075	Q9P2X3	0.18986
25119	P14075	Q13200	0.34505
25120	P14075	P13645	0.77038
25121	P14075	P08397	0.20355
25122	P14075	O75448	0.34135
25123	P14075	P12035	0.54544
25124	P14075	Q5VWP3	0.91018
25125	P14075	Q9UJY1	0.30769
25126	P14075	Q9BXU2	0.27696
25127	P14075	Q96BU1	0.48442
25128	P14075	A8MXV4	0.47666
25129	P14075	F5H4B4	0.83777
25130	P14075	Q9HA58	0.63821
25131	P14075	Q5TZA2	0.52358
25132	P14075	A0JNW5	0.57632
25133	P14075	P0DJH9	0.022662
25134	P14075	P48556	0.24186
25135	P14075	A1A580	0.78906
25136	P14075	P19387	0.32256
25137	P14075	Q5H9R7	0.8243
25138	P14075	P06730	0.34871
25139	P14075	Q2KHT3	0.90422
25140	P14075	Q9NX05	0.35454
25141	P14075	Q12798	0.46103
25142	P14075	P01009	0.13314
25143	P14075	P62140	0.56315
25144	P14075	Q8N5M1	0.29228
25145	P14075	O00167	0.37813
25146	P14075	Q9Y4A5	0.62155
25147	P14075	Q2NL98	0.8181
25148	P14075	Q9UKV0	0.29475
25149	P14075	A2AJT9	0.4283
25150	P14075	O00716	0.87253
25151	P14075	P62306	0.16265
25152	P14075	Q9ULE4	0.28008
25153	P14075	P56693	0.48567
25154	P14075	Q8IY81	0.52227
25155	P14075	Q9H9C1	0.43862
25156	P14075	Q9H040	0.2357



25157	P14075	A3KN83	0.86576
25158	P14075	Q16401	0.53057
25159	P14075	Q9NPI6	0.65599
25160	P14075	P62081	0.75519
25161	P14075	Q9NQR7	0.63821
25162	P14075	P86481	0.63821
25163	P14075	Q96FW1	0.12174
25164	P14075	Q5TBC7	0.15381
25165	P14075	O75494	0.48129
25166	P14075	Q7Z6J8	0.54735
25167	P14075	Q96JB5	0.20395
25168	P14075	Q9UK61	0.62266
25169	P14075	Q86VI4	0.42335
25170	P14075	Q7RTU5	0.28657
25171	P14075	Q9BW66	0.77701
25172	P14075	Q00978	0.67184
25173	P14075	Q8WW38	0.3599
25174	P14075	Q8N668	0.5618
25175	P14075	Q12980	0.83634
25176	P14075	P0CW24	0.1745
25177	P14075	Q96DY2	0.15212
25178	P14075	Q8IX12	0.80164
25179	P14075	P20226	0.71928
25180	P14075	Q5TCQ9	0.37905
25181	P14075	Q9BT49	0.55001
25182	P14075	P15336	0.67994
25183	P14075	P04198	0.61684
25184	P14075	Q95045	0.25968
25185	P14075	Q15629	0.30277
25186	P14075	Q9NRX3	0.74879
25187	P14075	Q9H9J2	0.21221
25188	P14075	Q13111	1.0393
25189	P14075	A6NMN3	0.40888
25190	P14075	Q9GZY8	0.23913
25191	P14075	Q9UHV2	1.3021
25192	P14075	Q15653	0.6727
25193	P14075	Q8NEU8	0.25909
25194	P14075	P63241	0.30624
25195	P14075	Q69YL0	0.63821
25196	P14075	Q96BQ5	0.59938
25197	P14075	Q8N2W9	0.80963
25198	P14075	Q8NHQ1	0.92796
25199	P14075	Q9Y2X8	0.19221
25200	P14075	O15061	0.54102
25201	P14075	Q14929	0.52616
25202	P14075	A0AUZ9	0.4549
25203	P14075	Q9NRI7	0.63821
25204	P14075	Q96AQ1	0.72258
25205	P14075	P48595	0.1105
25206	P14075	Q9UL58	0.40635
25207	P14075	Q9NXR7	0.19519
25208	P14075	P62308	0.521
25209	P14075	P15559	0.066893
25210	P14075	Q8IYB1	0.30464
25211	P14075	O43734	0.94025
25212	P14075	Q5T1C6	0.53004
25213	P14075	P62750	0.61236
25214	P14075	Q3KP22	0.31313
25215	P14075	A6NCN2	0.65232
25216	P14075	O15126	0.1059
25217	P14075	A6XGL0	0.33219
25218	P14075	O00567	0.58869
25219	P14075	P18621	0.3873
25220	P14075	A8MZG2	0.94025
25221	P14075	Q9UBB5	0.8746
25222	P14075	Q5VVH5	0.35212
25223	P14075	Q8WWY6	0.19547
25224	P14075	Q92754	0.39189
25225	P14075	Q9ULQ0	0.88258
25226	P14075	Q9UHB4	0.39729
25227	P14075	P13489	0.26715
25228	P14075	Q9NZI7	0.1437
25229	P14075	Q96LI5	0.36623
25230	P14075	Q8IU60	0.61306
25231	P14075	P15927	0.25179
25232	P14075	Q5SQS8	0.49119

25233	P14075	Q6ZTR5	0.44227
25234	P14075	Q96BD8	0.39487
25235	P14075	Q969Q0	0.12743
25236	P14075	Q9NZD8	0.38826
25237	P14075	Q9Y613	0.31796
25238	P14075	Q96BN6	0.44125
25239	P14075	Q9UI95	0.96469
25240	P14075	Q68DN1	0.64837
25241	P14075	Q15560	0.77498
25242	P14075	Q6NUI1	0.50348
25243	P14075	P35658	0.811
25244	P14075	Q6ZU35	0.94025
25245	P14075	A6NKU9	0.53769
25246	P14075	Q9Y3D5	0.55505
25247	P14075	Q86TL2	0.68398
25248	P14075	Q9NZN8	0.49364
25249	P14075	Q9NWS8	0.4565
25250	P14075	P0C5K6	0.63821
25251	P14075	P63279	0.60239
25252	P14075	P31040	0.48166
25253	P14075	Q9BYA6	0.63821
25254	P14075	Q6PIJ6	0.81808
25255	P14075	Q96020	0.6921
25256	P14075	A6NJ88	0.7048
25257	P14075	Q9BRR0	0.14156
25258	P14075	Q9Y6D6	0.37276
25259	P14075	P10242	0.71564
25260	P14075	Q16666	0.44428
25261	P14075	P12270	0.47328
25262	P14075	O43390	0.46611
25263	P14075	Q9H6Y2	0.30057
25264	P14075	O94983	1.002
25265	P14075	O94903	0.38452
25266	P14075	Q15796	0.45037
25267	P14075	Q96BN2	0.72756
25268	P14075	Q9NYJ1	0.94346
25269	P14075	Q9NZY2	0.63821
25270	P14075	Q01105	0.53308
25271	P14075	P58505	0.46631
25272	P14075	O95801	0.13564
25273	P14075	Q02543	0.49535
25274	P14075	Q08AN1	0.2118
25275	P14075	Q96N95	0.086077
25276	P14075	Q9UJG1	0.67678
25277	P14075	Q53HC0	0.99151
25278	P14075	P0DM63	0.67697
25279	P14075	Q9UI10	0.19153
25280	P14075	Q5MJ68	0.30571
25281	P14075	A8MVA2	0.78356
25282	P14075	P46976	0.28792
25283	P14075	Q9Y3I1	0.60115
25284	P14075	Q9NV44	0.24324
25285	P14075	Q86W67	0.035852
25286	P14075	Q5T0D9	0.45056
25287	P14075	P78385	0.67347
25288	P14075	Q9BYQ3	0.78356
25289	P14075	Q9NWA0	1.2517
25290	P14075	Q6P5X5	0.60136
25291	P14075	Q9Y2J8	0.60448
25292	P14075	Q5TYM5	0.35444
25293	P14075	Q9NQ87	0.31389
25294	P14075	Q7Z6I5	0.62644
25295	P14075	Q8WWC4	0.64556
25296	P14075	Q9HAV4	0.88809
25297	P14075	Q9UMY1	1.0264
25298	P14075	Q86UD1	0.37734
25299	P14075	Q96KF2	0.63821
25300	P14075	Q9H2U6	0.35033
25301	P14075	Q6NXR4	0.36683
25302	P14075	P0CH99	0.45305
25303	P14075	Q96A00	0.45019
25304	P14075	Q9UDY4	0.56219
25305	P14075	Q8IVF1	0.71985
25306	P14075	P63172	0.56221
25307	P14075	P54840	0.32613
25308	P14075	Q6NSW5	0.90658

25309	P14075	Q8WWH5	0.5865
25310	P14075	Q8NHY6	0.22775
25311	P14075	P08238	0.44916
25312	P14075	Q6ZVK8	0.16893
25313	P14075	O15304	0.68178
25314	P14075	Q03936	0.27718
25315	P14075	P28070	0.28158
25316	P14075	Q9BYC9	0.58789
25317	P14075	Q5JY77	0.57349
25318	P14075	A8MVP8	0.061133
25319	P14075	Q8TBK2	0.35382
25320	P14075	Q9NZB2	0.54362
25321	P14075	Q7Z5W3	0.59114
25322	P14075	A6NF01	0.71739
25323	P14075	Q9UHA2	0.21084
25324	P14075	Q9UQ35	0.64831
25325	P14075	Q86V87	0.36967
25326	P14075	O43920	0.54823
25327	P14075	Q13148	0.42776
25328	P14075	A8MXK9	0.48682
25329	P14075	Q15010	0.074578
25330	P14075	Q9P2X7	0.63821
25331	P14075	Q9BXD5	0.48959
25332	P14075	Q96ST8	0.73612
25333	P14075	E7EW31	0.63821
25334	P14075	P15923	0.42348
25335	P14075	Q6ZMV8	0.31444
25336	P14075	P63313	0.49457
25337	P14075	Q9UD71	0.73731
25338	P14075	O75794	0.8294
25339	P14075	P18124	0.36949
25340	P14075	Q9UNX3	0.65058
25341	P14075	Q66PJ3	0.5778
25342	P14075	Q96AP0	0.10495
25343	P14075	Q9BYJ9	0.56264
25344	P14075	P15408	0.38203
25345	P14075	O94906	0.19898
25346	P14075	Q5JST6	0.66876
25347	P14075	P53992	0.65956
25348	P14075	O60294	0.21847
25349	P14075	Q8N319	1.1383
25350	P14075	P20073	0.19718
25351	P14075	P63302	0.4331
25352	P14075	P25398	0.45256
25353	P14075	P58004	0.46741
25354	P14075	Q9HCG8	0.11136
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25356	P14075	P0CG43	0.63821
25357	P14075	Q96LC9	0.47654
25358	P14075	P50402	0.34092
25359	P14075	Q9BT92	0.33446
25360	P14075	Q14691	0.2155
25361	P14075	Q4V328	0.84195
25362	P14075	Q6PJG6	0.57558
25363	P14075	Q13398	0.2886
25364	P14075	Q9Y6H1	0.87053
25365	P14075	Q53GI3	0.14795
25366	P14075	Q86W11	0.12192
25367	P14075	Q96JI7	0.3865
25368	P14075	Q9Y3E5	0.38545
25369	P14075	Q6NSI8	0.44121
25370	P14075	Q9BQ48	0.81752
25371	P14075	Q5BJE1	0.32108
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25373	P14075	Q8N7Q3	0.2122
25374	P14075	Q9NZ63	0.49071
25375	P14075	A8MTB1	0.63821
25376	P14075	Q6NXS1	0.87443
25377	P14075	Q5JTD0	0.93278
25378	P14075	Q8NEG0	0.28028
25379	P14075	Q9P016	0.63632
25380	P14075	Q9H2G4	0.48519
25381	P14075	Q9NYF8	0.89517
25382	P14075	Q14585	0.14625
25383	P14075	Q7Z3K6	0.29481
25384	P14075	Q6ZSR6	0.18567

25385	P14075	Q9UBB4	0.72646
25386	P14075	Q12872	0.62151
25387	P14075	Q5JVX7	0.67543
25388	P14075	Q86YW9	0.22989
25389	P14075	Q13057	0.2898
25390	P14075	Q14209	0.86926
25391	P14075	Q8IY63	0.26129
25392	P14075	Q9NVU7	0.58688
25393	P14075	Q8IYI0	0.37634
25394	P14075	Q13952	0.50221
25395	P14075	P25963	0.43081
25396	P14075	Q9ULJ3	0.39559
25397	P14075	Q17RY6	0.57247
25398	P14075	C9J302	0.64724
25399	P14075	Q9BYE7	0.56066
25400	P14075	Q96CB9	0.48307
25401	P14075	Q9BRU9	0.36436
25402	P14075	O43365	0.28091
25403	P14075	O75306	0.34276
25404	P14075	O14777	0.38318
25405	P14075	Q9NWD9	0.35916
25406	P14075	Q9NZP6	0.71739
25407	P14075	Q92621	0.81266
25408	P14075	P43358	0.39464
25409	P14075	P61981	0.30327
25410	P14075	A8MYX2	0.017615
25411	P14075	O75182	0.89553
25412	P14075	P38646	0.40891
25413	P14075	Q13547	0.5713
25414	P14075	A6NNV3	0.53769
25415	P14075	Q9BXV9	0.63821
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25417	P14075	Q9UJX2	0.40006
25418	P14075	I3L1I5	0.32393
25419	P14075	Q9ULR0	0.7354
25420	P14075	Q5VVS0	0.73697
25421	P14075	Q6K0P9	0.1006
25422	P14075	Q9BT25	0.40911
25423	P14075	Q6W349	0.64769
25424	P14075	Q04323	0.17216
25425	P14075	P61077	0.33202
25426	P14075	Q13642	0.26638
25427	P14075	Q5TBE3	0.27693
25428	P14075	A1L168	0.94025
25429	P14075	Q99856	0.40423
25430	P14075	O00570	0.63291
25431	P14075	Q9BXY0	0.099562
25432	P14075	Q496A3	0.40546
25433	P14075	Q05195	0.35209
25434	P14075	Q16594	0.40955
25435	P14075	Q8IV33	0.69551
25436	P14075	P54198	0.86027
25437	P14075	O94763	0.60294
25438	P14075	P55854	0.32737
25439	P14075	P49721	0.27455
25440	P14075	Q96GW9	0.40413
25441	P14075	A8MVM7	0.63821
25442	P14075	Q8TCH9	0.43328
25443	P14075	O95571	0.30626
25444	P14075	Q96GE4	0.16524
25445	P14075	Q8N9G6	0.55134
25446	P14075	P26358	0.26352
25447	P14075	Q5W1A9	0.17547
25448	P14075	Q9BYQ9	0.78356
25449	P14075	Q8NEZ2	0.3987
25450	P14075	O15511	0.045069
25451	P14075	Q6SJ96	0.094341
25452	P14075	P07195	0.32299
25453	P14075	Q9Y5M6	0.63821
25454	P14075	Q9H0A0	0.48909
25455	P14075	Q8N8H1	0.26226
25456	P14075	A6NF36	0.53493
25457	P14075	Q9BQI9	0.63787
25458	P14075	Q6PEX3	0.45447
25459	P14075	Q8IYN2	0.9329
25460	P14075	Q86Y46	0.39857

25461	P14075	Q6A163	0.70708
25462	P14075	Q96AQ2	0.76323
25463	P14075	Q9UQK1	0.20881
25464	P14075	Q8NA31	0.35313
25465	P14075	A2RUB6	0.11425
25466	P14075	Q9BZE1	0.5173
25467	P14075	P20962	0.62036
25468	P14075	A8MZF0	0.94025
25469	P14075	Q13084	0.74772
25470	P14075	Q8N0Z2	0.13252
25471	P14075	Q96IZ0	0.52334
25472	P14075	P13056	0.46703
25473	P14075	Q9Y2L1	0.3447
25474	P14075	Q8ND90	0.49786
25475	P14075	Q8IVD9	0.38573
25476	P14075	O75638	1.2136
25477	P14075	P55735	0.35851
25478	P14075	P01106	0.31329
25479	P14075	Q6PCE3	0.44801
25480	P14075	Q8N8E1	0.49045
25481	P14075	Q9UBI9	0.73677
25482	P14075	O14561	0.28348
25483	P14075	Q92750	0.44127
25484	P14075	Q96EL1	0.90131
25485	P14075	Q8IWT0	0.14797
25486	P14075	P39880	0.37897
25487	P14075	Q9NSI2	0.94025
25488	P14075	Q9BR46	0.69628
25489	P14075	Q8WVJ9	0.48493
25490	P14075	Q86XI8	0.37331
25491	P14075	P43359	0.64711
25492	P14075	Q9BYI3	0.71815
25493	P14075	A9UHW6	0.5282
25494	P14075	Q8N2C9	0.15845
25495	P14075	P47813	0.80853
25496	P14075	A6QL64	0.42835
25497	P14075	Q8WU03	0.44716
25498	P14075	P78316	0.86927
25499	P14075	Q9H478	0.21732
25500	P14075	O00471	0.058576
25501	P14075	Q92993	0.72836
25502	P14075	Q15185	0.27733
25503	P14075	Q9UKV3	0.40663
25504	P14075	O95900	0.77918
25505	P14075	Q96H20	0.63722
25506	P14075	Q9NRI5	0.18718
25507	P14075	Q8N6N3	0.55449
25508	P14075	Q8N163	0.49598
25509	P14075	A6H8Y1	0.43466
25510	P14075	Q9HA77	0.43149
25511	P14075	P0C879	0.63821
25512	P14075	Q96FF9	0.59963
25513	P14075	Q86Y79	0.6389
25514	P14075	A6H8Z2	0.4937
25515	P14075	Q70EK8	0.56735
25516	P14075	Q8NFX5	0.62672
25517	P14075	P53805	0.42528
25518	P14075	P36873	0.52145
25519	P14075	Q9Y618	0.8438
25520	P14075	O14497	0.58459
25521	P14075	Q9UI43	0.61979
25522	P14075	Q8TAL5	0.47308
25523	P14075	Q96KW2	0.58453
25524	P14075	B3EWF7	0.63821
25525	P14075	Q96HR8	0.87102
25526	P14075	Q9NP81	0.37995
25527	P14075	Q96GI7	0.94025
25528	P14075	O95229	0.53556
25529	P14075	O75290	0.2718
25530	P14075	Q5VWG9	0.56068
25531	P14075	Q13868	0.38965
25532	P14075	Q9UHV9	0.55068
25533	P14075	Q15029	0.21794
25534	P14075	O75081	0.865
25535	P14075	Q8TEP8	0.49613
25536	P14075	P61574	0.589

25537	P14075	O95402	0.87263
25538	P14075	Q07687	0.34755
25539	P14075	P05198	0.44758
25540	P14075	Q8WV24	0.40809
25541	P14075	P22103	0.63821
25542	P14075	O95347	0.25266
25543	P14075	Q86Y26	0.78213
25544	P14075	O75400	0.68175
25545	P14075	O14503	0.67128
25546	P14075	O75132	0.075083
25547	P14075	Q6JBY9	0.53945
25548	P14075	Q5JSJ4	1.1042
25549	P14075	Q9UPV9	0.52079
25550	P14075	Q6IPW1	0.41792
25551	P14075	A8MU93	0.94025
25552	P14075	Q9BVW5	0.70152
25553	P14075	Q96A09	0.50797
25554	P14075	O15371	0.42219
25555	P14075	A7E2V4	1.106
25556	P14075	O76031	0.57356
25557	P14075	P49366	0.22692
25558	P14075	Q9Y255	0.24038
25559	P14075	P56279	0.67704
25560	P14075	Q8TEL6	0.26075
25561	P14075	P62312	0.57169
25562	P14075	Q9Y2Q1	0.28992
25563	P14075	P17040	0.3919
25564	P14075	Q9Y248	0.46992
25565	P14075	Q8N1I8	0.63821
25566	P14075	P82909	0.31371
25567	P14075	Q86V97	0.39464
25568	P14075	Q9Y3B7	0.77418
25569	P14075	P54252	0.3268
25570	P14075	Q9BYR9	0.49168
25571	P14075	Q7Z392	0.47968
25572	P14075	Q6PF06	0.70187
25573	P14075	P31269	0.44115
25574	P14075	Q96LJ8	0.8371
25575	P14075	O00231	0.29204
25576	P14075	P07737	0.63382
25577	P14075	Q8N5C8	0.26097
25578	P14075	O75376	0.31391
25579	P14075	Q5SQ13	0.046528
25580	P14075	Q9C010	0.6114
25581	P14075	Q92748	0.85129
25582	P14075	Q9Y316	0.36542
25583	P14075	A6NEQ9	0.63821
25584	P14075	Q01826	0.54789
25585	P14075	Q5JR59	0.75582
25586	P14075	Q4G112	0.11658
25587	P14075	P46527	0.21953
25588	P14075	Q96D70	1.0023
25589	P14075	Q92785	0.32033
25590	P14075	Q9Y4P8	0.52438
25591	P14075	Q5TEA3	0.55421
25592	P14075	Q32P41	0.18019
25593	P14075	Q9HCN2	0.63821
25594	P14075	Q504T8	0.16891
25595	P14075	Q16670	0.11191
25596	P14075	Q96AQ7	0.44478
25597	P14075	Q8IYX3	0.89363
25598	P14075	Q9BV19	0.67075
25599	P14075	P15515	0.37094
25600	P14075	Q8IV03	1.0128
25601	P14075	Q5T6C5	0.48825
25602	P14075	Q8WV37	0.28249
25603	P14075	Q8TEE9	0.84255
25604	P14075	Q9HAZ2	0.24056
25605	P14075	Q96TA1	0.096957
25606	P14075	Q16637	0.63691
25607	P14075	Q8WW33	0.46771
25608	P14075	Q0VFX6	0.94025
25609	P14075	Q8IZ16	0.26921
25610	P14075	P27540	0.29639
25611	P14075	Q9BZ01	0.31426
25612	P14075	Q6UWZ7	0.27578

25613	P14075	P51398	0.85912
25614	P14075	Q5HYI7	0.74769
25615	P14075	Q05877	0.76903
25616	P14075	O43255	0.24298
25617	P14075	O75381	0.30763
25618	P14075	Q8NCU4	0.24599
25619	P14075	Q96MF0	0.26557
25620	P14075	Q69YH5	0.75612
25621	P14075	A6NJ64	0.35621
25622	P14075	Q9Y3E7	0.52809
25623	P14075	Q15390	0.54807
25624	P14075	P0C671	0.12542
25625	P14075	A1L188	0.87504
25626	P14075	Q9Y2B4	0.12823
25627	P14075	Q5VUG0	0.1228
25628	P14075	Q00587	0.18572
25629	P14075	Q9HCM9	0.35128
25630	P14075	H0YKK7	0.66953
25631	P14075	Q8NCU1	0.38453
25632	P14075	Q92624	0.51476
25633	P14075	Q9BUN5	0.24424
25634	P14075	A8MZA4	0.36542
25635	P14075	P23528	0.54779
25636	P14075	Q9H7C4	0.20078
25637	P14075	O95298	0.54966
25638	P14075	Q9H714	0.31443
25639	P14075	O60269	0.56642
25640	P14075	Q96A44	0.30187
25641	P14075	P62136	0.46451
25642	P14075	Q9BVV6	0.63821
25643	P14075	Q7Z4U5	0.81189
25644	P14075	P55347	0.28459
25645	P14075	Q9Y2R9	0.71259
25646	P14075	Q86Z20	0.78594
25647	P14075	Q9NW38	0.40008
25648	P14075	Q8WTW4	0.23679
25649	P14075	O75586	0.515
25650	P14075	Q8IXM7	0.48907
25651	P14075	Q3YBR2	0.33615
25652	P14075	Q9H0E3	0.70823
25653	P14075	Q71F78	0.35662
25654	P14075	C9J3V5	0.56972
25655	P14075	Q9C073	0.80583
25656	P14075	O75940	0.44461
25657	P14075	Q4LEZ3	0.736
25658	P14075	Q8NI27	0.57773
25659	P14075	O00461	0.47807
25660	P14075	Q9UPN7	0.67833
25661	P14075	P78396	0.65319
25662	P14075	Q8IVU9	0.17021
25663	P14075	Q9BSH5	0.18271
25664	P14075	Q9UJX6	0.35911
25665	P14075	Q76KD6	0.34431
25666	P14075	Q7RTV3	0.19614
25667	P14075	Q9H9H4	0.51296
25668	P14075	O43592	0.12467
25669	P14075	Q9BTX1	0.58741
25670	P14075	Q8N5A5	0.6163
25671	P14075	O00505	0.66305
25672	P14075	A6NHR8	0.63821
25673	P14075	Q96B23	0.69556
25674	P14075	Q13875	0.32906
25675	P14075	Q6ZUG5	0.31389
25676	P14075	Q9UQB3	0.37117
25677	P14075	Q99459	0.94122
25678	P14075	C9JBD0	0.36365
25679	P14075	Q9BTT4	0.48467
25680	P14075	Q8IVK1	0.63821
25681	P14075	Q13405	0.4211
25682	P14075	O43516	0.060347
25683	P14075	Q8N2Z9	0.30313
25684	P14075	Q02556	0.23215
25685	P14075	Q13137	0.71812
25686	P14075	Q9Y676	0.63887
25687	P14075	O00743	0.49196
25688	P14075	Q96BJ3	0.48193

25689	P14075	Q5HYC2	0.035575
25690	P14075	P12757	0.20749
25691	P14075	Q9H8S9	0.22592
25692	P14075	Q9BYR6	1.0514
25693	P14075	Q8TEV9	0.49599
25694	P14075	P41219	0.46091
25695	P14075	Q9NPD8	0.13309
25696	P14075	P62487	0.24929
25697	P14075	Q6ICB0	0.85156
25698	P14075	Q9UFN0	0.38432
25699	P14075	Q9BYR8	1.0514
25700	P14075	Q9Y2M0	0.37379
25701	P14075	Q9NUQ3	0.35508
25702	P14075	Q03468	0.25014
25703	P14075	Q9Y5P3	0.41736
25704	P14075	Q9H4A5	0.64232
25705	P14075	P0CW27	0.35926
25706	P14075	P0CL80	0.45588
25707	P14075	Q6P435	0.18558
25708	P14075	Q5T7N2	0.10711
25709	P14075	Q9ULD5	0.10499
25710	P14075	Q8NHZ8	0.88202
25711	P14075	P35711	0.71013
25712	P14075	Q96QD9	0.5305
25713	P14075	O15225	0.63821
25714	P14075	Q9BWJ2	0.27732
25715	P14075	O43583	0.89307
25716	P14075	Q86UU5	0.61859
25717	P14075	P41162	0.23395
25718	P14075	P57077	0.46601
25719	P14075	Q5T9G4	0.76943
25720	P14075	Q8WV99	0.2404
25721	P14075	Q96DI7	0.46061
25722	P14075	Q8IUI4	0.18934
25723	P14075	Q9H0C8	0.19352
25724	P14075	Q92530	0.49745
25725	P14075	Q15847	0.63821
25726	P14075	Q9NV39	0.60703
25727	P14075	Q8N1F1	0.63821
25728	P14075	A1L3X0	0.40775
25729	P14075	Q5XKK7	0.16522
25730	P14075	P07438	0.30226
25731	P14075	O00257	0.74948
25732	P14075	P55209	0.4873
25733	P14075	Q96DX5	0.76416
25734	P14075	O96004	0.34936
25735	P14075	Q96NI8	0.25704
25736	P14075	Q9UKT5	0.25945
25737	P14075	Q96MD2	0.24266
25738	P14075	Q9Y285	0.55658
25739	P14075	Q96HA8	0.79957
25740	P14075	P16333	0.39254
25741	P14075	Q9BU89	0.14863
25742	P14075	Q13568	0.65406
25743	P14075	Q6ZPA2	0.63821
25744	P14075	P17098	0.29968
25745	P14075	Q96EF6	0.4455
25746	P14075	Q96MN9	0.38989
25747	P14075	Q9BTE3	0.46531
25748	P14075	O00291	0.23843
25749	P14075	O43678	0.4604
25750	P14075	Q8WU49	0.63821
25751	P14075	Q6ICG7	0.63821
25752	P14075	Q8TAI1	0.48874
25753	P14075	A6NI86	0.60332
25754	P14075	Q8NA96	0.41629
25755	P14075	Q96BK5	0.3204
25756	P14075	Q52M58	0.70371
25757	P14075	Q13485	0.46037
25758	P14075	P35232	0.33603
25759	P14075	Q5T871	0.63821
25760	P14075	O94992	1.1267
25761	P14075	Q9UHK0	0.1809
25762	P14075	A8MUZ8	0.34491
25763	P14075	Q9NXV2	0.84521
25764	P14075	Q96QR1	0.85349



25765	P14075	Q99638	0.36204
25766	P14075	Q8NA77	0.55098
25767	P14075	O60870	0.47503
25768	P14075	O00255	0.10019
25769	P14075	Q9H777	0.42468
25770	P14075	Q96AA8	0.32934
25771	P14075	Q502W7	0.61279
25772	P14075	Q8N7H5	0.68429
25773	P14075	P60368	0.45591
25774	P14075	Q9UPV0	1.1101
25775	P14075	Q86WV1	0.32371
25776	P14075	P09629	0.71226
25777	P14075	P69208	0.63821
25778	P14075	Q8N8I6	0.63821
25779	P14075	P63208	0.39296
25780	P14075	P17152	0.70107
25781	P14075	Q6P047	0.45747
25782	P14075	Q93074	0.35402
25783	P14075	Q9BVC3	0.37979
25784	P14075	O75817	0.70981
25785	P14075	O75969	0.29831
25786	P14075	Q9BVV2	0.11413
25787	P14075	Q7Z4W3	0.63821
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25789	P14075	P60371	0.78356
25790	P14075	P61582	0.89322
25791	P14075	O94864	0.36766
25792	P14075	Q9ULN7	0.71723
25793	P14075	P07900	0.45459
25794	P14075	Q9NQT4	0.29639
25795	P14075	Q6P1J9	0.47678
25796	P14075	Q9NX04	0.42582
25797	P14075	O75691	0.54622
25798	P14075	Q9C0B2	0.33923
25799	P14075	Q9P206	0.93609
25800	P14075	Q96SW2	0.33517
25801	P14075	Q8TAF3	0.37153
25802	P14075	Q9H3R5	0.29147
25803	P14075	Q5MJ10	0.88201
25804	P14075	Q9Y6E7	0.28574
25805	P14075	Q3LI64	0.63821
25806	P14075	Q8WTR7	0.44801
25807	P14075	Q9NP71	0.32571
25808	P14075	A6NEY3	0.71412
25809	P14075	Q8N535	0.36259
25810	P14075	Q13156	0.19899
25811	P14075	Q9NR28	0.54678
25812	P14075	Q9H6K1	0.16122
25813	P14075	Q6PJ61	0.85575
25814	P14075	Q92499	0.29853
25815	P14075	P11940	0.27979
25816	P14075	P24278	0.61836
25817	P14075	Q8TAX7	0.63821
25818	P14075	Q9UFV3	0.053239
25819	P14075	P10155	0.48861
25820	P14075	A4D1E1	0.46672
25821	P14075	Q14186	1.0451
25822	P14075	Q96HA1	0.75131
25823	P14075	Q9UII2	0.37035
25824	P14075	A5PL33	0.81
25825	P14075	Q6NZI2	0.74978
25826	P14075	A6NMP4	0.29603
25827	P14075	Q86XN6	0.2168
25828	P14075	Q9Y238	0.26743
25829	P14075	A6NHP3	0.53769
25830	P14075	Q09028	0.47743
25831	P14075	Q9Y315	0.48099
25832	P14075	Q3SYA9	0.33853
25833	P14075	O60831	0.72604
25834	P14075	Q9BPZ7	0.51151
25835	P14075	Q10586	0.22552
25836	P14075	Q9NPF5	0.69054
25837	P14075	Q969Q6	0.094409
25838	P14075	P15036	0.54347
25839	P14075	Q9Y2J4	0.13623
25840	P14075	Q9UNZ5	0.94025

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25842	P14075	Q86TA4	0.21569
25843	P14075	Q5TEC3	0.14883
25844	P14075	Q96HI0	0.37799
25845	P14075	Q14999	0.64454
25846	P14075	Q14980	0.79458
25847	P14075	P60228	0.67286
25848	P14075	Q9NTK5	0.53678
25849	P14075	Q86VM9	0.1522
25850	P14075	P63173	0.57968
25851	P14075	Q96MB7	0.55903
25852	P14075	Q7Z7L8	0.88464
25853	P14075	Q86WR7	0.92041
25854	P14075	Q15365	0.68953
25855	P14075	Q9BRT6	0.49501
25856	P14075	Q9H204	0.78879
25857	P14075	Q5T5A4	0.62555
25858	P14075	Q6ZVX7	0.47604
25859	P14075	Q96B36	0.65677
25860	P14075	Q2M2I3	0.093036
25861	P14075	Q8N999	0.79097
25862	P14075	Q00839	0.26692
25863	P14075	Q14920	0.3884
25864	P14075	Q86XA9	0.33398
25865	P14075	Q8IYI8	0.23053
25866	P14075	Q15853	0.45782
25867	P14075	P55822	0.50388
25868	P14075	Q8N5R6	0.37778
25869	P14075	Q6F5E7	0.2246
25870	P14075	Q9H9Q4	0.20084
25871	P14075	Q8WW18	0.94025
25872	P14075	Q8N1N5	0.27589
25873	P14075	Q8N5U6	0.77047
25874	P14075	Q9NQ89	0.21127
25875	P14075	Q9BQ70	1.0273
25876	P14075	P49116	0.45552
25877	P14075	Q9NWS1	0.60675
25878	P14075	Q12857	0.13416
25879	P14075	O95628	0.49535
25880	P14075	P16118	0.059968
25881	P14075	Q9UKL3	0.89702
25882	P14075	Q9UJ98	0.35629
25883	P14075	Q16655	0.53872
25884	P14075	Q86VP3	0.3942
25885	P14075	A8MTY7	0.78356
25886	P14075	P12036	0.32592
25887	P14075	Q9NWF9	0.53377
25888	P14075	P58005	0.30277
25889	P14075	P50995	0.6136
25890	P14075	Q68DK2	0.58167
25891	P14075	Q9NWU5	0.64706
25892	P14075	Q9NRY5	0.7971
25893	P14075	O96019	0.73385
25894	P14075	Q15323	0.70903
25895	P14075	Q9HAW4	0.32669
25896	P14075	Q8WW01	0.46314
25897	P14075	Q9BW27	0.55424
25898	P14075	Q6T4R5	0.29416
25899	P14075	P46100	0.3706
25900	P14075	P35244	0.34149
25901	P14075	P54274	0.27775
25902	P14075	Q9BXL8	0.2419
25903	P14075	P30050	0.49535
25904	P14075	O75865	0.45808
25905	P14075	Q9HCL3	0.28807
25906	P14075	Q92541	0.72873
25907	P14075	Q6ZVD7	0.35278
25908	P14075	Q9H606	0.45914
25909	P14075	O43493	0.63581
25910	P14075	Q8NBZ0	0.9324
25911	P14075	P0DKV0	0.21272
25912	P14075	Q9HCC9	0.17246
25913	P14075	Q9H7Y2	0.43766
25914	P14075	A2RRP1	0.118
25915	P14075	O00189	0.094461
25916	P14075	P52294	0.75349

25917	P14075	Q6IE81	0.71347
25918	P14075	P56378	0.61809
25919	P14075	Q96D05	0.96877
25920	P14075	Q9H2K0	0.40421
25921	P14075	Q04726	0.75722
25922	P14075	Q14770	0.28309
25923	P14075	Q8IWS0	0.2729
25924	P14075	Q9UHI6	0.21451
25925	P14075	A6NGU7	0.35107
25926	P14075	P23327	0.58648
25927	P14075	A6NCS6	0.37212
25928	P14075	P25791	0.24972
25929	P14075	Q8N9K3	0.94025
25930	P14075	Q06587	0.59897
25931	P14075	Q5VIY5	0.27773
25932	P14075	P31749	0.38022
25933	P14075	Q9Y6Y0	0.23784
25934	P14075	Q95487	0.43206
25935	P14075	Q9H5I1	0.44662
25936	P14075	Q9H4B6	0.34891
25937	P14075	P07902	0.41518
25938	P14075	Q9Y6G5	0.23554
25939	P14075	Q9NXB0	0.50295
25940	P14075	Q3B726	0.054527
25941	P14075	Q2M3C7	0.30068
25942	P14075	Q9H910	0.81714
25943	P14075	P57721	0.20649
25944	P14075	P02545	0.58109
25945	P14075	Q19AV6	0.84912
25946	P14075	Q95810	0.22772
25947	P14075	Q75478	0.16888
25948	P14075	Q8TAB5	0.94025
25949	P14075	Q5JT78	0.30904
25950	P14075	Q8ND07	0.50837
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25952	P14075	P0CG48	0.27172
25953	P14075	Q5VXD3	0.048221
25954	P14075	Q15631	0.45197
25955	P14075	Q9BYQ5	0.78356
25956	P14075	Q96I23	0.13749
25957	P14075	Q8WXS3	0.98542
25958	P14075	Q96JC9	0.73062
25959	P14075	Q9UPY8	0.70489
25960	P14075	Q8N7U7	0.39001
25961	P14075	Q04695	0.74795
25962	P14075	Q15235	0.46341
25963	P14075	K7EJ46	0.63821
25964	P14075	Q8IUC0	0.43324
25965	P14075	Q9BTE6	0.59992
25966	P14075	P04406	0.28286
25967	P14075	A8MUA0	0.2376
25968	P14075	Q5T655	0.63821
25969	P14075	Q96EN9	0.72211
25970	P14075	Q86US8	0.29353
25971	P14075	Q8N9T2	0.63821
25972	P14075	Q8IZD4	0.595
25973	P14075	Q9BYR3	0.78356
25974	P14075	Q66GS9	0.070043
25975	P14075	Q9BQG0	0.38348
25976	P14075	Q9Y221	0.55046
25977	P14075	Q02952	0.40767
25978	P14075	Q9NY43	0.25252
25979	P14075	Q9C0F1	0.087371
25980	P14075	P35908	0.47755
25981	P14075	Q5VUA4	0.23115
25982	P14075	Q5T7N8	0.22856
25983	P14075	Q6I9Y2	0.64551
25984	P14075	Q92539	0.30339
25985	P14075	Q96DE5	0.92673
25986	P14075	A2RUB1	0.94025
25987	P14075	Q6ZS17	0.33313
25988	P14075	P62979	0.2116
25989	P14075	Q5T752	0.63821
25990	P14075	Q9ULV5	0.21875
25991	P14075	P28324	1.1064
25992	P14075	Q96KC9	0.45762

25993	P14075	P49419	0.37172
25994	P14075	Q12986	0.072161
25995	P14075	Q6ZNA4	0.4212
25996	P14075	Q8N108	0.84816
25997	P14075	Q9Y692	0.48781
25998	P14075	Q96MF6	0.52792
25999	P14075	O75920	1.0791
26000	P14075	Q13435	0.60858
26001	P14075	P43897	0.81602
26002	P14075	Q6IQ49	0.22837
26003	P14075	Q99996	0.31831
26004	P14075	O00762	0.40178
26005	P14075	Q6ZNR8	0.63821
26006	P14075	Q5T699	0.033413
26007	P14075	Q96S95	0.53948
26008	P14075	Q86UY5	0.181
26009	P14075	Q8N7J2	0.82301
26010	P14075	Q9Y253	0.05997
26011	P14075	Q6ZUF6	0.26951
26012	P14075	O00401	0.41938
26013	P14075	Q9H8T0	0.28398
26014	P14075	Q5JPI3	0.90615
26015	P14075	Q17RM4	0.58215
26016	P14075	Q9NY27	0.78293
26017	P14075	Q96M60	0.56488
26018	P14075	O15078	0.38763
26019	P14075	Q96A49	0.61166
26020	P14075	Q8NCE0	0.382
26021	P14075	P0C7X3	0.40378
26022	P14075	Q6ZVN8	0.26223
26023	P14075	Q8N344	0.29481
26024	P14075	P57081	0.63456
26025	P14075	Q13310	0.2729
26026	P14075	Q9Y399	0.73211
26027	P14075	Q92670	0.16167
26028	P14075	P59797	0.61946
26029	P14075	Q96CG3	0.29412
26030	P14075	O60573	0.31482
26031	P14075	Q9H5J8	0.96753
26032	P14075	Q9Y2P8	0.42303
26033	P14075	O14964	0.36216
26034	P14075	Q15326	0.92206
26035	P14075	P61236	0.27189
26036	P14075	O75618	0.88774
26037	P14075	Q9H9H5	0.54045
26038	P14075	Q86XN7	0.94025
26039	P14075	Q14CW9	0.6362
26040	P14075	Q9NPE3	0.64046
26041	P14075	Q8TA94	0.31311
26042	P14075	Q6ZTN6	0.48582
26043	P14075	Q5JU67	0.03075
26044	P14075	P83731	0.49535
26045	P14075	Q08379	0.11649
26046	P14075	Q8NC38	0.090643
26047	P14075	O75556	0.29237
26048	P14075	Q9H8G2	0.90615
26049	P14075	Q9H6K4	0.58861
26050	P14075	O14604	0.51575
26051	P14075	Q107X0	0.59777
26052	P14075	Q9BU64	0.3547
26053	P14075	Q8N8D1	0.69126
26054	P14075	Q9BU61	0.40067
26055	P14075	P51397	0.68026
26056	P14075	Q9BYQ4	0.78356
26057	P14075	Q96EA4	0.47865
26058	P14075	O60756	0.63821
26059	P14075	P49458	0.6215
26060	P14075	Q15013	0.58225
26061	P14075	Q5SW79	0.52568
26062	P14075	Q9BXY8	0.4678
26063	P14075	P84098	0.38311
26064	P14075	Q9Y2W2	0.72939
26065	P14075	Q9NX55	0.29666
26066	P14075	Q9Y3C7	0.73677
26067	P14075	Q96BW1	0.16677
26068	P14075	Q8TDR0	0.68599

26069	P14075	Q8NAP1	0.94025
26070	P14075	Q8N4U5	0.10299
26071	P14075	O00139	0.24681
26072	P14075	P60602	0.51691
26073	P14075	Q5BJF6	0.28164
26074	P14075	O43505	0.53711
26075	P14075	Q9NQX1	0.33997
26076	P14075	Q9NZV7	0.33849
26077	P14075	Q8WUD4	0.24684
26078	P14075	Q86V20	0.73725
26079	P14075	P32519	1.0104
26080	P14075	Q9UP83	0.90273
26081	P14075	A4D250	0.091626
26082	P14075	Q4LE28	0.51806
26083	P14075	Q9Y512	0.074531
26084	P14075	Q8IXQ9	0.2129
26085	P14075	Q86VP1	0.19477
26086	P14075	P49754	0.27442
26087	P14075	Q9UNN5	0.41708
26088	P14075	A6NEY8	0.31238
26089	P14075	Q6IN85	0.16905
26090	P14075	O14948	0.21686
26091	P14075	Q96NS8	0.29819
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26094	P14075	P59036	0.63821
26095	P14075	O60613	0.42923
26096	P14075	O00170	0.43858
26097	P14075	Q8TAY7	1.2058
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26099	P14075	Q3YBM2	0.75144
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26102	P14075	P49918	0.49547
26103	P14075	Q14653	0.41071
26104	P14075	A6NGD5	0.14392
26105	P14075	P62318	0.59235
26106	P14075	Q96S59	0.56496
26107	P14075	Q9Y5A7	0.45161
26108	P14075	Q8WXW3	0.61938
26109	P14075	Q9BZ98	0.036759
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26112	P14075	Q06455	0.5031
26113	P14075	Q9UGL9	0.63821
26114	P14075	Q8N983	0.3008
26115	P14075	Q86T75	0.455
26116	P14075	Q96RM1	0.63821
26117	P14075	Q96HA7	0.4926
26118	P14075	Q96FJ2	0.33082
26119	P14075	Q96M53	0.94474
26120	P14075	Q9UGK3	0.42667
26121	P14075	P83369	0.49375
26122	P14075	Q2KHM9	0.3621
26123	P14075	Q96D98	0.74783
26124	P14075	Q6P1R3	0.35942
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26127	P14075	Q8N1K5	0.46495
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26129	P14075	Q8NCF5	0.257
26130	P14075	O15116	0.56711
26131	P14075	Q9NVM1	0.87155
26132	P14075	O14641	0.47021
26133	P14075	Q06547	0.84001
26134	P14075	Q01664	0.38423
26135	P14075	Q7Z3Y8	0.70708
26136	P14075	Q7Z6K1	0.49089
26137	P14075	Q7L3T8	0.49952
26138	P14075	Q8NDZ0	0.11256
26139	P14075	O43768	0.029362
26140	P14075	O00411	0.3939
26141	P14075	Q9HBH7	0.45839
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26146	P14075	Q14532	0.55056
26147	P14075	O60287	0.9966
26148	P14075	P26371	0.63821
26149	P14075	Q8TBZ0	0.026295
26150	P14075	Q13490	0.29607
26151	P14075	Q86SX3	1.1716
26152	P14075	Q8TCC3	0.15452
26153	P14075	Q9P258	0.32428
26154	P14075	O75683	0.48545
26155	P14075	Q14106	0.25138
26156	P14075	Q2TAL8	0.73919
26157	P14075	O76013	0.70903
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26159	P14075	O95983	0.92085
26160	P14075	P51116	0.37914
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26164	P14075	B2RUZ4	0.98812
26165	P14075	Q9UHD9	0.53294
26166	P14075	P28074	0.38808
26167	P14075	O75935	0.61351
26168	P14075	O14744	0.72312
26169	P14075	O95865	0.21008
26170	P14075	P54845	0.11975
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26172	P14075	Q9UHB7	1.0522
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26176	P14075	P23193	0.92383
26177	P14075	Q52MB2	0.67938
26178	P14075	Q17RC7	0.5225
26179	P14075	Q5T0W9	0.14797
26180	P14075	Q8TES7	0.37934
26181	P14075	Q58F21	0.15004
26182	P14075	A6NK39	0.13209
26183	P14075	Q9BSH4	1.0016
26184	P14075	P08779	0.7693
26185	P14075	P22033	0.41913
26186	P14075	Q96HB5	0.42705
26187	P14075	Q9NZH5	0.34269
26188	P14075	Q96JM7	0.22447
26189	P14075	Q8IWE5	0.22009
26190	P14075	P29966	0.74258
26191	P14075	O75161	0.79378
26192	P14075	Q6ZT83	0.25192
26193	P14075	Q8IX21	0.43121
26194	P14075	A8MU10	0.63821
26195	P14075	Q9NR56	0.30118
26196	P14075	Q05481	0.20657
26197	P14075	A6NES4	0.38275
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26207	P14075	Q8NHG7	0.79071
26208	P14075	Q9HD40	0.31488
26209	P14075	Q9BZQ8	0.59777
26210	P14075	Q96RE7	0.66502
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26223	P14075	Q93083	0.30226
26224	P14075	Q96PV7	0.92041
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26233	P14075	Q96BP2	0.8499
26234	P14075	O60783	0.51419
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26239	P14075	Q9BUY5	0.26869
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26245	P14075	Q9NXH3	0.45019
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26249	P14075	Q9Y6B2	0.76799
26250	P14075	A8K830	0.63821
26251	P14075	Q5HYR2	0.84601
26252	P14075	P46782	0.33404
26253	P14075	Q14676	0.40023
26254	P14075	Q6IQ19	0.49027
26255	P14075	Q96M42	0.1478
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26257	P14075	P50221	0.4937
26258	P14075	Q32M78	0.25506
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26268	P14075	O60299	0.18552
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26281	P14075	Q96B45	0.083005
26282	P14075	P62861	0.8238
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26284	P14075	Q9H943	0.15822
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26305	P14075	Q9BYN7	0.048821
26306	P14075	Q8N3J9	0.12173
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26313	P14075	Q9HCG1	0.23304
26314	P14075	Q01892	0.20165
26315	P14075	Q12904	0.073534
26316	P14075	Q6AI08	0.45209
26317	P14075	A6NGH7	0.31016
26318	P14075	Q86U86	0.76916
26319	P14075	Q6ZV65	0.29059
26320	P14075	P0CW71	0.63821
26321	P14075	Q0VDD5	0.63821
26322	P14075	Q2YD98	0.3943
26323	P14075	Q96A35	0.63295
26324	P14075	Q95456	0.26513
26325	P14075	O14862	0.30873
26326	P14075	P25205	0.21969
26327	P14075	Q7Z5K2	0.46092
26328	P14075	A6NNL0	0.72275
26329	P14075	Q75145	0.25515
26330	P14075	P28065	0.44968
26331	P14075	P0C860	0.1397
26332	P14075	P13646	0.84455
26333	P14075	P48378	0.22921
26334	P14075	Q9BV29	0.14717
26335	P14075	Q6NZY4	0.43599
26336	P14075	Q95990	0.43183
26337	P14075	Q8NC54	0.88741
26338	P14075	Q9C005	0.42237
26339	P14075	P61571	0.41774
26340	P14075	O60518	0.69697
26341	P14075	Q9H8W3	0.43285
26342	P14075	Q9H8G1	0.30184
26343	P14075	Q8N1L1	0.63821
26344	P14075	Q9BUJ2	0.90159
26345	P14075	Q9BYR5	0.78356
26346	P14075	Q63HM1	0.26027
26347	P14075	Q6ZN17	0.8843
26348	P14075	Q9P1F3	0.57845
26349	P14075	Q9NZF1	0.157
26350	P14075	Q9UPQ9	0.37369
26351	P14075	Q96RY5	0.73692
26352	P14075	P37802	0.20936
26353	P14075	P18077	0.30461
26354	P14075	O14965	0.24225
26355	P14075	Q3C1V1	0.94025
26356	P14075	Q05048	0.54949
26357	P14075	Q8N7B6	0.21625
26358	P14075	Q75525	0.62552
26359	P14075	Q05BU3	0.63821
26360	P14075	Q96NB1	0.13763
26361	P14075	Q96M66	0.18632
26362	P14075	Q9H963	0.24855
26363	P14075	P11441	0.33676
26364	P14075	A8MQ03	0.39347
26365	P14075	Q96K30	0.51932
26366	P14075	Q9NVS9	0.39668
26367	P14075	P82664	0.84967
26368	P14075	Q7Z309	0.47411
26369	P14075	Q8NCR3	0.21329
26370	P14075	P78543	0.45785
26371	P14075	Q9Y5B9	0.085568
26372	P14075	Q9NPA3	0.91989



26373	P14075	Q9NSA3	0.49265
26374	P14075	Q9Y5N5	0.19647
26375	P14075	Q9NQS1	0.52502
26376	P14075	Q69YN4	0.41977
26377	P14075	Q5HYW3	0.65019
26378	P14075	Q99623	0.77482
26379	P14075	Q8TEM1	0.2089
26380	P14075	Q9BQ65	0.48955
26381	P14075	Q8N7R1	0.49026
26382	P14075	Q9Y5Q3	0.64368
26383	P14075	Q95780	0.31244
26384	P14075	Q7RTS9	0.87311
26385	P14075	Q9NVH2	0.4411
26386	P14075	Q15834	0.82568
26387	P14075	P49848	0.54584
26388	P14075	Q9BZP3	0.23756
26389	P14075	Q15424	0.58052
26390	P14075	Q9NV31	0.61102
26391	P14075	Q8IZS5	0.6087
26392	P14075	Q68CP9	0.30872
26393	P14075	P46779	0.83108
26394	P14075	Q6UW32	0.47672
26395	P14075	Q5XKE5	0.52312
26396	P14075	Q8NDQ6	0.1983
26397	P14075	Q96AB3	0.49037
26398	P14075	Q86X55	0.50814
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26405	P14075	P53618	0.49657
26406	P14075	A5YM69	0.23692
26407	P14075	Q95831	0.4711
26408	P14075	Q9HCU9	0.84768
26409	P14075	A6NEF3	0.71412
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26412	P14075	Q9UBB9	0.23589
26413	P14075	Q6ZP68	0.74887
26414	P14075	Q6MZP7	0.36433
26415	P14075	Q3B7T1	0.82917
26416	P14075	Q7L8W6	0.55312
26417	P14075	Q8WXC3	0.38336
26418	P14075	Q15637	0.22598
26419	P14075	Q6ZVT6	0.29054
26420	P14075	Q9ULX6	0.35176
26421	P14075	Q9NSC5	0.31519
26422	P14075	Q3KQU3	0.49936
26423	P14075	Q9Y2D9	0.39205
26424	P14075	Q86SG4	0.009084
26425	P14075	Q96LM9	0.061456
26426	P14075	Q9BUW7	0.94025
26427	P14075	Q9NWT8	0.52302
26428	P14075	Q9BQ52	0.28087
26429	P14075	Q5T686	0.38848
26430	P14075	Q14523	0.68914
26431	P14075	Q9UQN3	0.2346
26432	P14075	Q9H2J4	0.4136
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26434	P14075	Q43679	0.12111
26435	P14075	P39023	0.68268
26436	P14075	Q3KP66	0.98706
26437	P14075	P86452	0.25931
26438	P14075	Q8TE69	0.1668
26439	P14075	Q9NQ29	0.52501
26440	P14075	Q9H1D9	0.31845
26441	P14075	Q9BVM2	0.41096
26442	P14075	P55771	0.59989
26443	P14075	Q6VMQ6	0.89013
26444	P14075	Q6QNY1	0.50307
26445	P14075	Q9HB09	0.96006
26446	P14075	Q9BW85	0.91878
26447	P14075	Q96E29	0.46529
26448	P14075	Q9Y3X0	0.70218

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26450	P14075	Q9NZE8	0.71767
26451	P14075	Q9BQ66	0.78356
26452	P14075	A2RTX5	0.30111
26453	P14075	Q6PD62	0.44218
26454	P14075	Q49AM1	0.21026
26455	P14075	Q9H9D4	0.3617
26456	P14075	P41214	0.46601
26457	P14075	Q96NY9	0.45566
26458	P14075	Q0VG73	0.63821
26459	P14075	Q6R327	0.033757
26460	P14075	Q15287	0.71913
26461	P14075	Q3ZCV2	0.94025
26462	P14075	Q04637	0.30689
26463	P14075	Q9UIS9	0.34267
26464	P14075	P46939	0.32312
26465	P14075	Q5TCM9	0.63821
26466	P14075	P51504	0.1745
26467	P14075	A1L162	0.42481
26468	P14075	Q6Q795	0.63821
26469	P14075	Q7Z5L9	0.68681
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26471	P14075	Q96N06	0.61962
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26473	P14075	P52744	0.17201
26474	P14075	Q9BYT5	0.42224
26475	P14075	Q9HC62	0.31179
26476	P14075	Q9BTK6	0.24046
26477	P14075	O60543	0.20654
26478	P14075	Q3SY46	0.70449
26479	P14075	Q9HCK8	0.21616
26480	P14075	P50502	0.37205
26481	P14075	Q701N2	0.63821
26482	P14075	Q9UNQ2	0.43608
26483	P14075	Q15014	0.7795
26484	P14075	Q9UPN9	0.31725
26485	P14075	Q86WH2	0.016985
26486	P14075	Q8WXE9	0.327
26487	P14075	Q8WWL7	0.69486
26488	P14075	Q9BYG8	0.14817
26489	P14075	Q9UN79	0.68845
26490	P14075	P50914	0.74903
26491	P14075	Q5TGP6	0.35732
26492	P14075	Q15007	0.47573
26493	P14075	Q15370	0.23243
26494	P14075	O00472	0.33296
26495	P14075	Q5JVS0	0.54996
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26497	P14075	Q99732	0.34646
26498	P14075	Q8IUR0	0.72771
26499	P14075	Q8NE22	0.99467
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26501	P14075	P24928	0.66013
26502	P14075	Q8NAP3	0.15666
26503	P14075	Q86WV5	0.45027
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26505	P14075	Q05BQ5	0.04253
26506	P14075	Q15691	0.44742
26507	P14075	P61956	0.43665
26508	P14075	A2RUQ5	0.1322
26509	P14075	Q9UHF7	0.32061
26510	P14075	P67870	0.14371
26511	P14075	P50616	0.20701
26512	P14075	Q9H6K5	0.94025
26513	P14075	Q6NVV1	0.27332
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26515	P14075	P62269	0.48985
26516	P14075	P62847	0.41024
26517	P14075	Q6PG37	0.308
26518	P14075	Q330K2	0.36714
26519	P14075	Q9BW92	0.34641
26520	P14075	Q5TA79	0.63821
26521	P14075	Q8N655	0.63821
26522	P14075	A4D0Y5	0.63821
26523	P14075	Q99733	0.5089
26524	P14075	Q14696	0.47736

26525	P14075	Q8IW19	0.1378
26526	P14075	O75251	0.12061
26527	P14075	Q63HQ0	0.63821
26528	P14075	Q8N6N6	0.096162
26529	P14075	Q3LI72	0.63821
26530	P14075	P62910	0.4006
26531	P14075	Q9H320	0.99246
26532	P14075	Q9BXH1	0.21388
26533	P14075	Q8TCJ0	0.79786
26534	P14075	Q9Y421	0.24093
26535	P14075	O43776	0.47166
26536	P14075	Q96C11	0.17383
26537	P14075	P0DI81	0.7535
26538	P14075	Q53FE4	0.182
26539	P14075	O60238	0.17673
26540	P14075	O43189	0.27035
26541	P14075	O95671	0.47891
26542	P14075	P0CG12	1.1051
26543	P14075	Q5SY13	0.63821
26544	P14075	P62273	0.60336
26545	P14075	Q8N6I1	0.75342
26546	P14075	Q9BV73	0.41414
26547	P14075	Q7Z7A3	0.42839
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26550	P14075	Q96HA9	0.50685
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26554	P14075	Q9BVM4	0.66303
26555	P14075	H3BNL8	0.69256
26556	P14075	O95782	0.22651
26557	P14075	Q96ST2	0.29867
26558	P14075	Q96MU7	0.53716
26559	P14075	Q9NYP9	0.30915
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26561	P14075	Q14154	0.29562
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26563	P14075	Q96IT6	0.63821
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26565	P14075	Q3LI63	0.63821
26566	P14075	P0C7T7	0.63821
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26568	P14075	O75150	0.3266
26569	P14075	Q8IVV7	0.26331
26570	P14075	Q15723	0.97999
26571	P14075	Q99848	0.21098
26572	P14075	Q9NS25	0.92895
26573	P14075	Q96S07	0.63821
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26575	P14075	P51531	0.50379
26576	P14075	Q5T8I9	0.032127
26577	P14075	Q9BTA9	0.69069
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26580	P14075	Q6ZQN3	0.74168
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26583	P14075	Q9BTD3	0.76323
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26586	P14075	Q5T0J7	0.6278
26587	P14075	Q16836	0.34785
26588	P14075	Q9Y535	0.033137
26589	P14075	Q9H808	0.31176
26590	P14075	P04259	0.22406
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26594	P14075	Q9Y6D0	0.71741
26595	P14075	Q6ZRV3	0.63821
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26597	P14075	Q96LS8	0.45184
26598	P14075	Q9P015	0.31111
26599	P14075	Q9NZM5	0.40191
26600	P14075	Q14934	0.2798

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26608	P14075	Q8NEY8	0.65763
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26610	P14075	Q8IYX0	0.30419
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26614	P14075	Q13158	0.25336
26615	P14075	Q92837	0.82737
26616	P14075	P0CG00	0.065088
26617	P14075	P35269	0.85762
26618	P14075	Q8N5N4	0.55562
26619	P14075	Q5T7W7	0.94025
26620	P14075	Q96N53	0.63821
26621	P14075	Q9NPA8	0.22164
26622	P14075	P27986	0.35683
26623	P14075	B9ZVM9	0.77798
26624	P14075	Q8N5U0	0.63821
26625	P14075	O15198	0.25698
26626	P14075	P11473	0.24448
26627	P14075	Q14CS0	0.12242
26628	P14075	Q99594	0.91047
26629	P14075	Q8IZU0	0.83666
26630	P14075	P60410	1.0514
26631	P14075	Q14657	1.0068
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26633	P14075	Q14677	0.22346
26634	P14075	Q9BUN8	0.223
26635	P14075	Q5TID7	0.4227
26636	P14075	Q659A1	0.31489
26637	P14075	Q6NXP2	0.96178
26638	P14075	Q5TH74	0.47439
26639	P14075	P86478	0.63821
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26657	P14075	Q14558	0.50268
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26664	P14075	O75928	0.55074
26665	P14075	Q8IWJ2	0.45549
26666	P14075	Q9HC52	0.59783
26667	P14075	Q9ULW3	0.67036
26668	P14075	Q5VX52	0.059261
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26683	P14075	Q96BT1	0.037151
26684	P14075	Q8N587	0.26731
26685	P14075	A6NNW6	0.48155
26686	P14075	F8WFD2	0.27544
26687	P14075	Q5VWQ0	1.1172
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26690	P14075	Q9H816	0.23652
26691	P14075	Q96FA3	0.34174
26692	P14075	P82663	0.57474
26693	P14075	Q96IR2	0.22707
26694	P14075	P26368	0.38796
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26699	P14075	P48382	0.69203
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26704	P14075	Q14907	0.24783
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26719	P14075	Q8N584	0.71876
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26723	P14075	P25786	0.43914
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26726	P14075	Q8TAP6	0.58298
26727	P14075	Q9UJJ7	0.21639
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26729	P14075	Q15306	0.55864
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26736	P14075	Q92575	0.60086
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26749	P14075	Q6AI39	0.91344
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26757	P14075	Q15173	0.15245
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26759	P14075	P17947	0.53178
26760	P14075	Q9UIF9	0.50176
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26762	P14075	Q96RS0	0.41012
26763	P14075	Q6RUI8	0.62867
26764	P14075	Q8NE71	0.2197
26765	P14075	P78345	0.85283
26766	P14075	Q32NC0	0.52579
26767	P14075	P62826	0.5054
26768	P14075	Q9UKC9	0.31334
26769	P14075	Q14818	0.45704
26770	P14075	Q15054	0.40821
26771	P14075	Q99750	0.41376
26772	P14075	Q14CX7	0.31736
26773	P14075	Q14687	0.1668
26774	P14075	A6NIX2	0.75949
26775	P14075	Q8TBE0	0.5084
26776	P14075	P11308	0.41605
26777	P14075	Q8IYJ2	0.69053
26778	P14075	Q9H8Y8	0.1482
26779	P14075	Q9BSF4	0.47147
26780	P14075	Q9NZZ3	0.62406
26781	P14075	Q5SNV9	0.33245
26782	P14075	Q8TE02	0.90336
26783	P14075	Q6ZMV5	0.36255
26784	P14075	Q9P2M1	0.31745
26785	P14075	Q95336	0.04456
26786	P14075	P46087	0.53233
26787	P14075	Q16514	0.64862
26788	P14075	Q95251	0.63624
26789	P14075	Q6R2W3	0.2543
26790	P14075	P86434	0.070635
26791	P14075	P82930	0.91004
26792	P14075	Q96BT3	0.29531
26793	P14075	Q9NQP4	0.59299
26794	P14075	Q96CS2	0.33094
26795	P14075	P49770	0.11101
26796	P14075	Q5QJE6	0.94955
26797	P14075	Q5THK1	0.16891
26798	P14075	Q9NUP1	0.4215
26799	P14075	Q14613	0.052977
26800	P14075	Q5JR98	0.41004
26801	P14075	P0CG42	0.63821
26802	P14075	P82970	0.44612
26803	P14075	Q8TAQ2	1.1845
26804	P14075	Q9NR77	0.44537
26805	P14075	Q8N9M1	0.28921
26806	P14075	P78318	0.63972
26807	P14075	P62987	0.41742
26808	P14075	P0DMC3	0.63821
26809	P14075	Q14628	0.26779
26810	P14075	Q9Y4P9	0.35159
26811	P14075	Q0VF49	0.63821
26812	P14075	Q14151	0.51347
26813	P14075	B3EWG4	0.94025
26814	P14075	P78346	0.49556
26815	P14075	O76015	0.70708
26816	P14075	P67809	0.47023
26817	P14075	O43257	0.30389
26818	P14075	O14490	0.46604
26819	P14075	Q8IYD1	0.18807
26820	P14075	Q8IX15	0.28947
26821	P14075	Q13309	0.38792
26822	P14075	Q8WUY8	0.70967
26823	P14075	Q8IYK2	0.89928
26824	P14075	O60907	0.57097
26825	P14075	O60290	0.36407
26826	P14075	Q06787	0.64068
26827	P14075	Q96K31	0.67811
26828	P14075	Q9BPU9	0.1003

26829	P14075	Q8WXQ3	0.97015
26830	P14075	A8MQB3	0.12021
26831	P14075	P63104	0.71855
26832	P14075	Q9P1Z2	0.55575
26833	P14075	P06396	0.18832
26834	P14075	Q9UH77	0.33388
26835	P14075	Q8IZ63	0.63821
26836	P14075	Q9BR84	0.33283
26837	P14075	P0C7V0	0.63821
26838	P14075	Q99417	1.151
26839	P14075	Q8NB42	0.30624
26840	P14075	Q9Y3P8	0.55445
26841	P14075	P60412	0.78356
26842	P14075	Q9C035	0.35674
26843	P14075	Q8IYB9	0.21527
26844	P14075	Q8TCI5	0.37598
26845	P14075	A2RU30	0.7363
26846	P14075	Q9HB19	0.29954
26847	P14075	Q9Y3S2	0.29071
26848	P14075	O43747	0.44917
26849	P14075	Q13114	0.23734
26850	P14075	Q9NWT6	0.28842
26851	P14075	A8MXZ3	0.63821
26852	P14075	Q96LR7	0.64624
26853	P14075	Q05D60	0.013653
26854	P14075	Q9UIA9	0.25244
26855	P14075	Q6ZR54	0.63821
26856	P14075	Q1HG44	0.76733
26857	P14075	O14602	0.30134
26858	P14075	Q8N865	0.25616
26859	P14075	A0JLT2	0.95001
26860	P14075	O00458	0.67695
26861	P14075	Q9BRS8	0.28334
26862	P14075	P13994	0.28631
26863	P14075	Q9HD47	0.12137
26864	P14075	Q5W0A0	0.30266
26865	P14075	P53041	0.35295
26866	P14075	P21127	0.36636
26867	P14075	P35579	0.55765
26868	P14075	P08697	0.090477
26869	P14075	P78358	0.95806
26870	P14075	Q96DC7	0.78327
26871	P14075	Q96KX1	0.068553
26872	P14075	Q9P031	0.99645
26873	P14075	Q99551	0.49491
26874	P14075	Q9BZA5	0.59445
26875	P14075	Q9H063	0.42981
26876	P14075	Q01534	0.23578
26877	P14075	P14868	0.56002
26878	P14075	P01858	0.63821
26879	P14075	Q9Y5L5	1.0211
26880	P14075	Q8NEZ5	0.48866
26881	P14075	Q9HAU5	0.57266
26882	P14075	Q9NWW7	0.96867
26883	P14075	Q9BZQ2	0.36033
26884	P14075	Q9HBQ8	0.71412
26885	P14075	Q8TAT8	0.38078
26886	P14075	Q5JUK9	0.34451
26887	P14075	P06748	0.29207
26888	P14075	Q5MJ08	0.30868
26889	P14075	Q6PJG2	0.45794
26890	P14075	P82914	0.61828
26891	P14075	Q8N8A8	0.59424
26892	P14075	Q86YI8	0.33367
26893	P14075	Q3ZCT1	0.14871
26894	P14075	Q5T160	0.59948
26895	P14075	Q8TBK6	0.54985
26896	P14075	Q8IW50	0.94025
26897	P14075	Q15545	0.72977
26898	P14075	Q96BD5	0.2455
26899	P14075	P23511	0.86355
26900	P14075	Q6PF05	0.23361
26901	P14075	O60303	0.36658
26902	P14075	Q96LQ0	0.53383
26903	P14075	Q5TA76	0.63821
26904	P14075	Q96DB5	0.3246

26905	P14075	P61457	0.78196
26906	P14075	A6ND36	0.015696
26907	P14075	Q52LG2	0.43451
26908	P14075	Q9H3M7	0.57553
26909	P14075	P57055	0.47254
26910	P14075	Q7L1Q6	0.16628
26911	P14075	Q13227	0.88372
26912	P14075	Q8WVZ9	0.39464
26913	P14075	O15442	0.11311
26914	P14075	Q9BSF0	0.28219
26915	P14075	P35573	0.30864
26916	P14075	Q8N9U9	0.26393
26917	P14075	P28072	0.2964
26918	P14075	Q5T035	0.59825
26919	P14075	Q9NWX4	0.69265
26920	P14075	Q86VX2	0.70598
26921	P14075	Q9P2F5	0.39889
26922	P14075	P55197	1.0537
26923	P14075	Q9UJK0	0.97908
26924	P14075	P78317	0.45463
26925	P14075	A6NEA5	0.27516
26926	P14075	Q5FBB7	0.58759
26927	P14075	P0CG35	0.49457
26928	P14075	P18848	0.81675
26929	P14075	O75360	0.28149
26930	P14075	Q9P2J5	0.25341
26931	P14075	O43711	0.22878
26932	P14075	Q5VZT2	0.15467
26933	P14075	Q969F9	0.84309
26934	P14075	Q9UBP6	0.84663
26935	P14075	Q53EL6	0.7158
26936	P14075	P80294	0.46119
26937	P14075	Q9NWQ4	0.86088
26938	P14075	Q9NRR4	0.30512
26939	P14075	Q9UMQ3	0.44155
26940	P14075	Q9H147	0.49027
26941	P14075	Q99549	0.46349
26942	P14075	Q96B26	0.50891
26943	P14075	Q13123	0.8566
26944	P14075	A6NKF2	0.33062
26945	P14075	Q6ZSV7	0.15192
26946	P14075	O14737	0.35973
26947	P14075	Q9H8H0	0.17936
26948	P14075	P51580	0.18635
26949	P14075	Q9BTA0	0.94025
26950	P14075	Q9UMS4	0.41661
26951	P14075	B3EWG3	0.94025
26952	P14075	Q96JK9	0.69611
26953	P14075	Q9ULW8	0.40915
26954	P14075	Q86UT8	1.1439
26955	P14075	Q969V6	1.0558
26956	P14075	Q6ZSN1	0.54871
26957	P14075	P09661	0.45549
26958	P14075	O60356	0.80509
26959	P14075	Q96LP2	0.070363
26960	P14075	Q9UIG4	0.73547
26961	P14075	Q6ZVN6	0.2034
26962	P14075	Q15436	0.3937
26963	P14075	Q8IYB3	0.54511
26964	P14075	Q8NAB5	0.63821
26965	P14075	Q92796	0.20297
26966	P14075	Q9Y5M1	0.31541
26967	P14075	Q01094	0.62848
26968	P14075	Q4V321	0.079883
26969	P14075	Q5XKR9	0.91245
26970	P14075	O14639	0.28571
26971	P14075	Q6ZN79	0.28942
26972	P14075	Q9UKV8	0.60319
26973	P14075	Q9BTL3	0.63721
26974	P14075	Q5RGN0	0.455
26975	P14075	P15502	0.40048
26976	P14075	O14978	0.21808
26977	P14075	P28370	0.27924
26978	P14075	Q9BWJ5	0.33329
26979	P14075	Q8TA86	0.52105
26980	P14075	Q96LY2	0.72258



26981	P14075	Q8NEQ6	0.16681
26982	P14075	P61586	1.0001
26983	P14075	Q9NZM4	1.0553
26984	P14075	Q5D1E8	0.52531
26985	P14075	Q9NRR5	0.39086
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26987	P14075	Q13536	0.63821
26988	P14075	Q9NU23	0.4651
26989	P14075	Q5VU69	0.66421
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26991	P14075	P62841	0.46093
26992	P14075	Q15773	0.88418
26993	P14075	Q96AH0	0.34548
26994	P14075	H0YL14	0.58154
26995	P14075	Q9Y333	0.49091
26996	P14075	Q6PB30	0.69844
26997	P14075	P10515	0.24735
26998	P14075	Q5VTE6	0.020626
26999	P14075	Q8IYS4	0.064867
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27001	P14075	Q86X83	0.44051
27002	P14075	P36578	0.76792
27003	P14075	Q5JNZ5	0.33115
27004	P14075	A0AUK8	0.19993
27005	P14075	Q9BUR4	0.56535
27006	P14075	Q8N4H0	0.38083
27007	P14075	Q9BVS5	0.18618
27008	P14075	P22061	0.40874
27009	P14075	Q13487	1.2523
27010	P14075	Q8NHY2	0.71553
27011	P14075	P08651	0.10543
27012	P14075	Q5VT33	0.25759
27013	P14075	Q9H0U9	0.27969
27014	P14075	P43364	0.55947
27015	P14075	P61978	0.74749
27016	P14075	O15105	0.19166
27017	P14075	Q9Y3A3	0.31251
27018	P14075	P14921	0.60432
27019	P14075	P0CW26	0.28911
27020	P14075	Q8NAV1	0.87308
27021	P14075	O95999	0.093946
27022	P14075	P62266	0.71048
27023	P14075	Q9BQ95	0.77137
27024	P14075	Q9GZS3	0.85774
27025	P14075	P50452	0.37761
27026	P14075	Q9H4H8	0.21261
27027	P14075	Q14397	0.48039
27028	P14075	Q9H4R4	0.0080065
27029	P14075	Q99496	0.28868
27030	P14075	P36402	0.37945
27031	P14075	P48728	0.17209
27032	P14075	Q92572	0.25661
27033	P14075	Q9Y2L8	0.35147
27034	P14075	P30304	0.3727
27035	P14075	Q9GZL8	0.49705
27036	P14075	Q8N831	0.33384
27037	P14075	Q3MIV0	0.63821
27038	P14075	P06400	0.50919
27039	P14075	Q13794	0.38625
27040	P14075	Q8N801	0.031357
27041	P14075	Q8N485	0.17163
27042	P14075	P83916	0.50876
27043	P14075	Q07352	0.66288
27044	P14075	P33316	0.41306
27045	P14075	O43542	0.30374
27046	P14075	Q8N402	0.0054577
27047	P14075	A8MWA4	0.38483
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27049	P14075	Q9BRT9	0.38643
27050	P14075	Q494R0	0.63821
27051	P14075	Q5M9Q1	0.72201
27052	P14075	Q8N9Z0	0.26879
27053	P14075	Q96EU6	0.32
27054	P14075	Q5VSR9	0.88201
27055	P14075	O14593	0.43088
27056	P14075	Q9NWZ8	0.58104

27057	P14075	P02511	0.21985
27058	P14075	Q66K41	0.54693
27059	P14075	Q9BSG1	0.23704
27060	P14075	Q8NBR6	1.2358
27061	P14075	Q3LI67	0.63821
27062	P14075	Q5VWT5	0.54983
27063	P14075	E9PB15	0.11311
27064	P14075	Q9UBI1	0.1668
27065	P14075	P82932	0.23783
27066	P14075	Q9BZ23	0.60255
27067	P14075	P50453	0.40718
27068	P14075	Q9NVR5	0.68945
27069	P14075	Q5TC12	0.31993
27070	P14075	Q9NWB7	0.39036
27071	P14075	Q8N7Y1	0.63821
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27073	P14075	A8MTZ7	0.21366
27074	P14075	P0C7P2	0.28438
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27076	P14075	Q6IQ32	0.35268
27077	P14075	Q8N6G1	0.63821
27078	P14075	Q15935	0.22477
27079	P14075	Q494V2	0.18051
27080	P14075	Q9UIL1	0.36264
27081	P14075	Q8IVT2	0.86866
27082	P14075	P0C867	0.43947
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27084	P14075	Q69YW0	0.35419
27085	P14075	Q9H6U6	0.52644
27086	P14075	Q99766	0.51761
27087	P14075	O15287	0.623
27088	P14075	Q9H410	0.5989
27089	P14075	Q96AV8	0.20687
27090	P14075	Q8NEL0	0.096144
27091	P14075	Q6ZQT7	0.63821
27092	P14075	Q8WU58	0.49328
27093	P14075	O95149	0.25249
27094	P14075	Q9NV29	0.62601
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27096	P14075	Q15053	0.1524
27097	P14075	A0PJX2	0.41618
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27099	P14075	Q03112	0.15085
27100	P14075	Q02078	0.30731
27101	P14075	Q13426	0.15347
27102	P14075	P55789	0.091278
27103	P14075	Q15633	0.60568
27104	P14075	Q5U649	0.23425
27105	P14075	Q9UBB6	0.41786
27106	P14075	Q9Y4W2	0.82098
27107	P14075	Q8NDH2	0.029727
27108	P14075	Q9Y3R5	0.46883
27109	P14075	Q5TA81	0.63821
27110	P14075	O94986	0.80035
27111	P14075	Q9NP66	0.75338
27112	P14075	P52743	0.23429
27113	P14075	Q8N4L8	0.23535
27114	P14075	P62714	0.41756
27115	P14075	Q5TI25	1.0145
27116	P14075	Q9BTD1	0.20194
27117	P14075	Q5JTC6	0.81782
27118	P14075	Q9UK28	0.72793
27119	P14075	B1AMM8	0.24609
27120	P14075	Q8N988	0.34111
27121	P14075	Q9BZE2	0.80363
27122	P14075	P61758	0.35409
27123	P14075	O60832	0.4935
27124	P14075	Q6ZN28	0.60732
27125	P14075	P24539	0.1252
27126	P14075	Q9Y262	0.56261
27127	P14075	A8MUV8	0.28249
27128	P14075	O43913	0.27382
27129	P14075	A8MVS1	0.32244
27130	P14075	P27348	0.19417
27131	P14075	Q9UPZ3	0.44634
27132	P14075	Q9NRR3	0.29123

27133	P14075	Q8IXH6	0.82345
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27137	P14075	P17028	0.50392
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27139	P14075	P27694	0.36152
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27141	P14075	Q9NTK1	0.68952
27142	P14075	Q7L0X2	0.48992
27143	P14075	Q6ZUA9	0.64233
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27145	P14075	Q6UWF3	0.54696
27146	P14075	P0DKL9	0.74444
27147	P14075	P50549	0.69326
27148	P14075	Q15628	0.3684
27149	P14075	Q13228	0.78166
27150	P14075	P26998	0.65175
27151	P14075	O14896	0.30465
27152	P14075	Q9NXX6	0.13588
27153	P14075	Q15742	0.18237
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27156	P14075	Q9NX40	0.26588
27157	P14075	Q15233	0.44501
27158	P14075	Q9Y2G9	0.64817
27159	P14075	Q9Y324	0.77973
27160	P14075	Q9UIF8	0.57965
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27163	P14075	Q8NEM7	0.14882
27164	P14075	Q9H2U2	0.238
27165	P14075	Q8NEG4	0.43563
27166	P14075	Q5VIR6	0.47909
27167	P14075	Q8N4M7	0.90788
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27173	P14075	P60328	0.17004
27174	P14075	Q9H9Y6	0.49609
27175	P14075	O94805	0.55123
27176	P14075	P0C7V6	0.54549
27177	P14075	O95073	0.79563
27178	P14075	Q5VWP2	0.27983
27179	P14075	A8MX80	0.51179
27180	P14075	O94829	0.75093
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27182	P14075	Q13347	0.44281
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27184	P14075	P60896	0.63821
27185	P14075	P22528	0.35546
27186	P14075	Q9BVL4	0.97036
27187	P14075	Q13094	0.33414
27188	P14075	Q5BKU6	0.17117
27189	P14075	A8MYP8	0.74097
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27191	P14075	P51946	0.48539
27192	P14075	Q96FZ2	0.7675
27193	P14075	E9PQ53	0.65415
27194	P14075	Q8IYA6	0.73454
27195	P14075	Q9BQY9	0.27791
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27197	P14075	Q9C002	0.1514
27198	P14075	Q3C1V8	0.39708
27199	P14075	Q9NS26	0.91631
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27201	P14075	Q8N7Z2	0.36542
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27206	P14075	Q6NVU6	0.27079
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27208	P14075	Q9BQ69	0.27782

27209	P14075	Q9UQ80	0.8544
27210	P14075	Q9H3J6	0.91546
27211	P14075	Q7Z2W4	0.26036
27212	P14075	Q8IYL3	1.0292
27213	P14075	Q6NSI4	0.26844
27214	P14075	Q8WVIO	0.78884
27215	P14075	Q969E4	0.21325
27216	P14075	Q9BX70	0.34768
27217	P14075	H3BTG2	0.56675
27218	P14075	Q96RU7	0.30587
27219	P14075	P52594	0.26061
27220	P14075	Q9HAA7	0.061461
27221	P14075	Q8IUC6	0.093042
27222	P14075	Q6ZVH6	0.035295
27223	P14075	O75436	0.42111
27224	P14075	P61513	0.38314
27225	P14075	Q9ULD0	0.16037
27226	P14075	O75822	0.68574
27227	P14075	O60477	0.37929
27228	P14075	Q8N2N9	0.42835
27229	P14075	Q8NEM2	0.50133
27230	P14075	Q15154	0.40968
27231	P14075	Q9NV56	0.72379
27232	P14075	Q9NZI6	0.30061
27233	P14075	O14879	0.51645
27234	P14075	Q8IX90	0.40584
27235	P14075	Q6PCB5	0.39752
27236	P14075	P28749	1.0231
27237	P14075	P32780	0.55006
27238	P14075	Q9GZR5	0.29572
27239	P14075	O00161	0.62814
27240	P14075	O95163	0.51443
27241	P14075	Q96PV6	0.41358
27242	P14075	P09012	0.25914
27243	P14075	Q9Y6P5	0.31389
27244	P14075	O75896	0.68355
27245	P14075	P55199	0.78301
27246	P14075	O15379	0.40605
27247	P14075	Q8ND99	0.36191
27248	P14075	Q9UK10	0.2118
27249	P14075	Q1RN00	0.63821
27250	P14075	P78386	0.70038
27251	P14075	Q6ZRP5	0.63821
27252	P14075	Q8WWM7	0.39699
27253	P14075	Q66K89	0.65026
27254	P14075	Q68CJ9	0.44894
27255	P14075	Q6ZMS7	0.17594
27256	P14075	O43504	0.19466
27257	P14075	P61313	0.72715
27258	P14075	P98168	0.48913
27259	P14075	Q8NF99	0.13223
27260	P14075	Q9P1Q0	0.269
27261	P14075	Q7Z7K6	0.52554
27262	P14075	Q8TC71	0.30708
27263	P14075	Q9Y3C0	0.18353
27264	P14075	Q9H9L3	0.21939
27265	P14075	P27635	0.36773
27266	P14075	A6NKF1	0.68578
27267	P14075	Q9ULK4	1.0144
27268	P14075	Q8TEK3	0.19405
27269	P14075	Q5VYV7	0.1668
27270	P14075	P01100	0.4089
27271	P14075	P02812	0.59508
27272	P14075	Q9BRQ6	0.92739
27273	P14075	Q8TDB4	0.22267
27274	P14075	A8K8V0	0.24018
27275	P14075	C9JC47	0.63821
27276	P14075	Q8IYL2	0.52238
27277	P14075	Q8NFH3	0.74228
27278	P14075	O60921	0.54578
27279	P14075	P17010	0.084994
27280	P14075	Q96DM1	0.61563
27281	P14075	A7MD48	0.73002
27282	P14075	Q9ULE6	0.38432
27283	P14075	Q86Y97	0.28151
27284	P14075	Q8NI29	0.26079

27285	P14075	Q14134	0.40861
27286	P14075	Q9GZU7	0.29175
27287	P14075	O00268	0.83526
27288	P14075	P14678	0.58821
27289	P14075	Q14789	0.2567
27290	P14075	Q96MC4	0.81412
27291	P14075	Q8NDT2	0.6864
27292	P14075	Q9BRJ6	0.61711
27293	P14075	A6NK44	0.036782
27294	P14075	B1AL46	0.72275
27295	P14075	Q96LX7	0.024215
27296	P14075	Q9UNL4	0.22766
27297	P14075	Q02447	0.34602
27298	P14075	Q9HD64	0.21489
27299	P14075	Q8IWC1	0.29733
27300	P14075	Q6ZWC4	0.36956
27301	P14075	P0C7V9	0.86595
27302	P14075	Q96A73	0.86895
27303	P14075	Q9UNN4	0.20958
27304	P14075	P0DJ07	0.78884
27305	P14075	Q15525	0.19127
27306	P14075	O95602	0.42171
27307	P14075	Q75792	0.79225
27308	P14075	Q86YG4	0.48126
27309	P14075	Q9BYQ0	0.78356
27310	P14075	Q5U4N7	0.63821
27311	P14075	Q9Y222	0.7218
27312	P14075	Q95059	0.41724
27313	P14075	Q9BQ89	0.99111
27314	P14075	Q9BZE7	0.94025
27315	P14075	Q8NDY4	0.63821
27316	P14075	Q5PRF9	0.34964
27317	P14075	Q9UEE9	0.56241
27318	P14075	Q9UJX4	0.51501
27319	P14075	O43447	0.4168
27320	P14075	Q9NSG2	0.57186
27321	P14075	Q6B0B8	0.39689
27322	P14075	Q8IWP9	0.96625
27323	P14075	O75190	0.52682
27324	P14075	Q3BBV2	0.455
27325	P14075	Q6ZRS4	0.7363
27326	P14075	Q9H633	0.19873
27327	P14075	P63010	0.21045
27328	P14075	Q5T1B1	0.91576
27329	P14075	Q5H9B9	0.29235
27330	P14075	P60369	0.78356
27331	P14075	Q9H009	0.15804
27332	P14075	Q9H900	0.31244
27333	P14075	Q5EBL4	0.22683
27334	P14075	Q53EZ4	0.42969
27335	P14075	Q8NF67	0.57736
27336	P14075	Q9UHQ1	0.55643
27337	P14075	Q6UXP9	0.073276
27338	P14075	Q0VDE8	0.59765
27339	P14075	Q8WY54	0.53107
27340	P14075	Q9Y534	0.13189
27341	P14075	O94925	0.29495
27342	P14075	Q9BZE4	0.1772
27343	P14075	P62888	0.48349
27344	P14075	Q8TDH9	0.085214
27345	P14075	O76009	0.70708
27346	P14075	Q3BBV1	1.0145
27347	P14075	O43310	0.28379
27348	P14075	Q13439	0.56939
27349	P14075	Q6P1L5	1.2136
27350	P14075	Q8TCS8	0.13476
27351	P14075	Q86YE8	0.2118
27352	P14075	O94952	0.64941
27353	P14075	Q9H4M3	0.11282
27354	P14075	Q96Q06	0.53449
27355	P14075	Q9HCS7	0.26169
27356	P14075	Q5HYN5	0.20293
27357	P14075	Q5T5F5	0.63821
27358	P14075	Q96QU8	0.75112
27359	P14075	Q9Y4R8	0.22617
27360	P14075	P23508	0.20328

27361	P14075	Q96BR6	0.26816
27362	P14075	Q9BRK4	0.32004
27363	P14075	P02795	0.41477
27364	P14075	Q96H79	0.49406
27365	P14075	Q9UHN1	0.052572
27366	P14075	Q4KMZ1	0.26664
27367	P14075	Q5HY98	0.26969
27368	P14075	O60885	0.46831
27369	P14075	Q53HL2	0.67058
27370	P14075	P00338	0.32299
27371	P14075	P20290	0.8435
27372	P14075	Q9UHY8	0.22525
27373	P14075	Q9Y2X9	0.44825
27374	P14075	P15621	0.28266
27375	P14075	O95751	0.45927
27376	P14075	O94817	0.31618
27377	P14075	Q9UFF9	0.29692
27378	P14075	Q9H9T3	0.59427
27379	P14075	Q9H7E2	0.18883
27380	P14075	Q05084	0.17836
27381	P14075	Q29RF7	0.74862
27382	P14075	Q6ZV50	0.073272
27383	P14075	Q9UK58	0.16372
27384	P14075	A6NE82	0.030285
27385	P14075	Q7L2K0	0.21061
27386	P14075	Q9Y3T9	0.81422
27387	P14075	O15063	0.45435
27388	P14075	Q9HAH7	0.85055
27389	P14075	Q9ULZ2	0.49589
27390	P14075	Q9Y678	0.3122
27391	P14075	Q5T1J5	0.87053
27392	P14075	Q6ZPB5	0.63821
27393	P14075	Q9P2T0	0.50109
27394	P14075	Q15513	0.63821
27395	P14075	Q5H9S7	0.73839
27396	P14075	Q6P2C8	0.74735
27397	P14075	Q9H693	0.51711
27398	P14075	Q49AA0	0.26988
27399	P14075	Q9NRD1	0.050819
27400	P14075	Q9H0U6	0.35582
27401	P14075	Q9UKY7	0.94894
27402	P14075	Q9H3H3	0.27954
27403	P14075	O43159	0.66304
27404	P14075	Q9P1A6	0.137
27405	P14075	Q92901	0.38311
27406	P14075	P24522	0.36696
27407	P14075	A2IDD5	0.45258
27408	P14075	A4D263	0.38686
27409	P14075	Q13342	0.41477
27410	P14075	P20809	0.36992
27411	P14075	Q7L190	0.77412
27412	P14075	Q96EV8	0.11719
27413	P14075	Q9NZI5	0.25118
27414	P14075	Q5T9C2	0.94025
27415	P14075	Q9H5L9	0.18644
27416	P14075	Q9NV92	0.12533
27417	P14075	P0CG47	0.27823
27418	P14075	Q5SYE7	0.66542
27419	P14075	Q8NEK8	0.86595
27420	P14075	Q9UNS2	0.42101
27421	P14075	Q9H098	0.94799
27422	P14075	O95394	0.57725
27423	P14075	Q9BXF6	0.38603
27424	P14075	Q9H1E3	0.76615
27425	P14075	P62937	0.45262
27426	P14075	Q7Z4T9	0.45364
27427	P14075	P98182	0.056799
27428	P14075	Q9BRR8	0.72435
27429	P14075	P0C7V5	0.22798
27430	P14075	Q6PGN9	0.62615
27431	P14075	P07197	0.66016
27432	P14075	Q8NAJ2	0.027144
27433	P14075	Q13330	0.25779
27434	P14075	Q96B01	0.57446
27435	P14075	P58511	0.76323
27436	P14075	A9QM74	0.27061

27437	P14075	Q6ZRH3	0.37498
27438	P14075	Q5T6M2	0.85677
27439	P14075	P61583	0.66896
27440	P14075	Q6P2I7	0.18724
27441	P14075	Q8IWL8	0.83317
27442	P14075	O95478	0.48791
27443	P14075	P42772	0.58894
27444	P14075	O15504	0.31888
27445	P14075	Q9BSQ5	0.26604
27446	P14075	Q494X1	0.17209
27447	P14075	Q9BXG8	0.22712
27448	P14075	Q9ULG3	0.63821
27449	P14075	Q8N6M0	0.10757
27450	P14075	Q8NCD3	0.34757
27451	P14075	Q5T230	1.043
27452	P14075	Q8IXM3	0.46453
27453	P14075	Q9UL42	0.57654
27454	P14075	A6NEL3	0.042213
27455	P14075	Q9NVX0	0.68544
27456	P14075	Q9H7P6	0.75985
27457	P14075	P12980	0.58625
27458	P14075	P09972	0.37476
27459	P14075	Q6P387	0.39937
27460	P14075	P49711	0.13498
27461	P14075	Q9Y383	0.46142
27462	P14075	P49789	0.24993
27463	P14075	Q96LR2	0.92375
27464	P14075	P25787	0.46127
27465	P14075	Q13428	0.93619
27466	P14075	Q96LW9	0.11557
27467	P14075	Q9BZK7	0.71351
27468	P14075	P15259	0.50609
27469	P14075	Q9P2D6	0.050567
27470	P14075	Q96H40	0.28445
27471	P14075	Q96T23	0.48513
27472	P14075	Q00577	0.39835
27473	P14075	Q99547	0.70398
27474	P14075	Q8TBY8	0.41375
27475	P14075	Q32MQ0	0.44828
27476	P14075	P26639	0.31923
27477	P14075	Q9BWC9	1.0184
27478	P14075	Q5C9Z4	0.48053
27479	P14075	A6NGY3	0.34057
27480	P14075	Q96QF0	0.34856
27481	P14075	O00712	0.080964
27482	P14075	Q96N20	0.11815
27483	P14075	Q8WZ33	0.52502
27484	P14075	Q92793	0.31292
27485	P14075	Q9UDY2	0.59211
27486	P14075	Q7RTS7	0.23689
27487	P14075	Q9BYE4	0.63821
27488	P14075	P08107	0.38424
27489	P14075	Q9BYE3	0.63821
27490	P14075	Q96LI6	0.25802
27491	P14075	P28702	0.26666
27492	P14075	P15884	0.45264
27493	P14075	Q9BTY7	0.33592
27494	P14075	Q69YI7	0.94197
27495	P14075	Q8N7W2	0.46184
27496	P14075	Q96MK2	0.25765
27497	P14075	O14832	0.41074
27498	P14075	Q7L5N1	0.77003
27499	P14075	P54725	0.3493
27500	P14075	Q717R9	0.56424
27501	P14075	O60925	0.12972
27502	P14075	Q9NVC6	0.42932
27503	P14075	Q9H6V9	0.45108
27504	P14075	Q9UNS1	0.41276
27505	P14075	E9PJ23	0.025923
27506	P14075	Q13416	0.34229
27507	P14075	P0CL83	0.45967
27508	P14075	A8MUL3	0.63821
27509	P14075	Q8WYA6	0.52564
27510	P14075	Q9UKW6	0.27014
27511	P14075	Q92841	0.47154
27512	P14075	A6NJ08	0.030285

27513	P14075	Q8N6M3	0.5651
27514	P14075	P50748	0.5426
27515	P14075	Q5SZD1	0.32465
27516	P14075	Q9Y5S9	0.59226
27517	P14075	O95447	0.15403
27518	P14075	P35268	0.51122
27519	P14075	P78352	0.41926
27520	P14075	Q9UI36	0.31977
27521	P14075	Q86YA3	0.92208
27522	P14075	Q9BVI4	0.35384
27523	P14075	Q13772	0.15379
27524	P14075	Q5TA78	0.63821
27525	P14075	Q86WR0	0.43671
27526	P14075	Q9BYN8	0.92056
27527	P14075	Q8TC90	0.90896
27528	P14075	P0C843	0.37873
27529	P14075	Q14695	0.46496
27530	P14075	O43463	0.60668
27531	P14075	Q6ULP2	0.49883
27532	P14075	O95376	0.23609
27533	P14075	P13647	0.63715
27534	P14075	Q8TF63	0.6364
27535	P14075	Q8N0U4	0.40571
27536	P14075	P0CZ25	0.32866
27537	P14075	Q9UH99	0.065692
27538	P14075	Q6UUV7	1.1714
27539	P14075	Q14674	0.14354
27540	P14075	Q8N8P6	0.31752
27541	P14075	Q16526	0.23693
27542	P14075	Q9Y3B6	0.70595
27543	P14075	Q5R3I4	0.26896
27544	P14075	Q8TF47	0.28409
27545	P14075	P38117	0.25804
27546	P14075	P18754	0.83802
27547	P14075	Q13404	0.77988
27548	P14075	Q14137	0.60882
27549	P14075	Q9NWM3	0.25521
27550	P14075	Q5U5X0	0.79949
27551	P14075	P16383	0.85226
27552	P14075	Q8N4C0	0.2228
27553	P14075	Q15468	0.42874
27554	P14075	Q9NR09	0.28303
27555	P14075	Q96PQ6	0.32094
27556	P14075	Q9UGK8	0.44438
27557	P14075	O75843	0.40756
27558	P14075	Q15699	0.31828
27559	P14075	P35080	0.19009
27560	P14075	Q6ZR93	0.63821
27561	P14075	O95243	0.42565
27562	P14075	Q96KN1	0.22673
27563	P14075	P49247	0.55775
27564	P14075	Q96C86	0.58927
27565	P14075	Q8TAC9	0.31211
27566	P14075	Q6ZW54	0.92676
27567	P14075	Q8IUUG1	0.81551
27568	P14075	P46937	0.61607
27569	P14075	Q6P9G9	0.11305
27570	P14075	Q8ND76	0.38174
27571	P14075	Q2T9L4	0.37832
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27573	P14075	Q53QW1	0.94025
27574	P14075	Q8N8D9	0.22202
27575	P14075	Q13127	0.35437
27576	P14075	Q9UBS8	0.48333
27577	P14075	O75113	0.60994
27578	P14075	Q86UD0	0.35269
27579	P14075	Q5CZC0	1.0153
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27581	P14075	P35226	0.41368
27582	P14075	Q9UF83	0.27185
27583	P14075	Q96PY6	0.26661
27584	P14075	Q9Y294	0.73443
27585	P14075	Q8IWA6	0.37633
27586	P14075	Q3LHN2	0.63821
27587	P14075	Q9H3M9	0.36872
27588	P14075	Q9HD42	0.73346



27589	P14075	Q9NR50	0.33026
27590	P14075	Q8N5J2	1.0048
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27592	P14075	Q9UKN8	0.45968
27593	P14075	Q32MZ4	0.8333
27594	P14075	O75192	0.46979
27595	P14075	Q96B67	0.14837
27596	P14075	Q3MJ62	0.10668
27597	P14075	Q9BYZ2	0.32299
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27599	P14075	Q8N398	0.32487
27600	P14075	Q9BRG1	0.74081
27601	P14075	Q9Y2P7	0.25605
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27603	P14075	Q96RN5	1.0418
27604	P14075	Q9BZS9	0.63821
27605	P14075	P48552	0.48956
27606	P14075	Q6ZSG2	0.59415
27607	P14075	Q99590	0.38222
27608	P14075	Q14533	0.70038
27609	P14075	Q9UDV6	0.3617
27610	P14075	O75486	0.49901
27611	P14075	Q96HG1	0.63821
27612	P14075	P61581	0.65433
27613	P14075	Q13503	0.45634
27614	P14075	Q8TF39	0.31207
27615	P14075	Q5BKY9	0.94025
27616	P14075	Q9UHB9	0.13838
27617	P14075	Q6ICC9	0.45104
27618	P14075	Q969I3	0.36669
27619	P14075	Q7L5D6	0.78768
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27621	P14075	P60409	0.78356
27622	P14075	Q96CN0	0.63821
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27625	P14075	P31276	0.41428
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27633	P14075	Q8N6Y0	0.38695
27634	P14075	Q96CV9	0.30502
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27636	P14075	Q9NP64	0.046073
27637	P14075	O43325	0.78056
27638	P14075	P56377	0.12861
27639	P14075	P35637	0.25922
27640	P14075	Q6PI48	0.57509
27641	P14075	Q4VC05	0.83555
27642	P14075	Q8N9V7	0.52936
27643	P14075	Q9Y5L0	0.69192
27644	P14075	Q9HBM0	0.55609
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27646	P14075	Q9H0C5	0.35261
27647	P14075	O60524	0.84128
27648	P14075	Q15022	0.43419
27649	P14075	O60711	0.2555
27650	P14075	O75884	0.99402
27651	P14075	Q6ZRH9	0.63821
27652	P14075	Q9NRC8	0.94914
27653	P14075	Q9Y2S6	0.63821
27654	P14075	Q9BYG5	0.41654
27655	P14075	P04731	0.30226
27656	P14075	Q9Y5J7	0.11634
27657	P14075	Q8WUH2	0.43141
27658	P14075	Q6NW29	0.42739
27659	P14075	Q9BZF9	0.37662
27660	P14075	P46776	0.72715
27661	P14075	I6L9F6	0.056889
27662	P14075	Q9UG56	0.20649
27663	P14075	Q15466	0.41869
27664	P14075	Q8N998	0.099575

27665	P14075	P19838	0.55066
27666	P14075	P0CZ20	0.28911
27667	P14075	Q96F63	0.94025
27668	P14075	Q9H9F9	0.85732
27669	P14075	Q8NHR7	0.16132
27670	P14075	Q96AY2	0.63042
27671	P14075	B1ANH7	0.030093
27672	P14075	Q96HY6	0.32038
27673	P14075	Q5SXJ2	1.0145
27674	P14075	Q9BYR4	0.78356
27675	P14075	Q86XK2	0.47966
27676	P14075	P60014	1.0211
27677	P14075	O60504	0.38345
27678	P14075	Q7Z7J5	0.7988
27679	P14075	Q9UQL6	0.33004
27680	P14075	O95873	0.94025
27681	P14075	Q3KNT7	0.10425
27682	P14075	Q12769	0.78318
27683	P14075	Q6ZS52	0.63821
27684	P14075	P60002	0.85228
27685	P14075	Q03060	0.19283
27686	P14075	Q04724	0.6551
27687	P14075	Q9H8K7	0.47403
27688	P14075	Q9H3C7	1.022
27689	P14075	Q8NBC4	0.63821
27690	P14075	Q2VPB7	0.47631
27691	P14075	Q53QV2	0.35613
27692	P14075	Q6ZN06	0.28445
27693	P14075	Q99741	0.39368
27694	P14075	P11168	0.20732
27695	P14075	P07196	0.54521
27696	P14075	Q96F24	0.44871
27697	P14075	Q15011	0.63315
27698	P14075	Q8IUF8	0.18723
27699	P14075	Q96GC6	0.85282
27700	P14075	Q96EH5	0.53684
27701	P14075	P09001	0.46738
27702	P14075	P10074	0.16061
27703	P14075	O94927	0.32838
27704	P14075	Q7RTT6	0.37226
27705	P14075	Q86UA6	0.85283
27706	P14075	Q9H0W8	0.4582
27707	P14075	Q9HCD5	0.79563
27708	P14075	Q9Y3Q8	1.0044
27709	P14075	P27469	0.56985
27710	P14075	Q14749	0.38716
27711	P14075	Q96FX7	0.17082
27712	P14075	Q9NQ48	0.12647
27713	P14075	Q3Y452	0.63821
27714	P14075	Q8NFD5	0.62335
27715	P14075	Q8IYI6	0.40827
27716	P14075	Q9GZZ8	0.63821
27717	P14075	P48788	0.19778
27718	P14075	Q9UJA5	0.87023
27719	P14075	Q8IYS8	0.47573
27720	P14075	Q9NY74	0.99467
27721	P14075	Q9UL40	0.40862
27722	P14075	O95273	0.68254
27723	P14075	P83876	0.73141
27724	P14075	A2RTY3	0.1312
27725	P14075	Q12888	0.47997
27726	P14075	Q13129	0.47987
27727	P14075	Q96EI5	0.56374
27728	P14075	Q09FC8	0.16686
27729	P14075	Q9BYD3	0.72005
27730	P14075	Q8NFC6	0.8161
27731	P14075	Q8N377	0.63821
27732	P14075	Q9UL18	0.74231
27733	P14075	Q96T59	0.41629
27734	P14075	Q8TBR4	0.30467
27735	P14075	O60810	0.44462
27736	P14075	Q8NA03	0.62891
27737	P14075	Q9H981	0.78119
27738	P14075	P54259	0.66314
27739	P14075	Q9BZW7	0.20797
27740	P14075	Q8IWE2	0.82308

27741	P14075	Q14678	0.3233
27742	P14075	O75665	0.43032
27743	P14075	Q15024	0.46092
27744	P14075	P56270	0.37206
27745	P14075	Q99502	0.027493
27746	P14075	Q9Y2H0	0.23671
27747	P14075	P35789	0.24999
27748	P14075	O15266	0.35951
27749	P14075	Q00653	0.90917
27750	P14075	Q8IU53	0.56554
27751	P14075	Q6IC83	0.066774
27752	P14075	Q9P260	0.24968
27753	P14075	Q9H379	0.67365
27754	P14075	Q6ZSR3	0.63821
27755	P14075	Q13427	0.20514
27756	P14075	O60304	0.13387
27757	P14075	A8MUQ0	0.74791
27758	P14075	Q8WW14	0.18927
27759	P14075	Q96N38	0.28795
27760	P14075	Q9HBM1	0.46352
27761	P14075	P16220	0.66491
27762	P14075	Q5UIP0	0.74341
27763	P14075	Q0VD86	0.11945
27764	P14075	Q93073	0.6126
27765	P14075	Q5T0J3	0.24794
27766	P14075	Q15361	0.51853
27767	P14075	P31946	0.38879
27768	P14075	Q53FN2	0.045219
27769	P14075	Q92558	0.1575
27770	P14075	P40305	0.58798
27771	P14075	O43791	0.36452
27772	P14075	Q32M92	0.00033455
27773	P14075	P17022	0.088158
27774	P14075	Q5MJ07	0.88201
27775	P14075	Q8NDA8	0.58658
27776	P14075	O75934	0.47359
27777	P14075	Q92597	0.25557
27778	P14075	Q9ULE0	0.057317
27779	P14075	Q6ZRC1	0.63821
27780	P14075	Q9HBF5	0.73711
27781	P14075	Q5JXC2	0.25426
27782	P14075	P84103	0.43188
27783	P14075	Q96I59	0.41523
27784	P14075	Q5JQS6	0.33667
27785	P14075	P54278	0.17177
27786	P14075	P20618	0.47769
27787	P14075	Q9BQC3	0.7718
27788	P14075	Q7RTT3	0.049323
27789	P14075	Q96HE9	0.11378
27790	P14075	Q8NE00	0.75184
27791	P14075	Q9HCU8	0.46416
27792	P14075	Q5SQH8	0.34642
27793	P14075	A8MUU9	0.11715
27794	P14075	Q9H1A4	0.49416
27795	P14075	Q7KZF4	0.5742
27796	P14075	Q5VWM6	0.83358
27797	P14075	P56211	0.32858
27798	P14075	G3V211	0.75421
27799	P14075	Q96M85	0.63821
27800	P14075	O76042	0.50855
27801	P14075	Q969W0	0.43049
27802	P14075	Q8N448	0.24944
27803	P14075	Q86VS8	0.23067
27804	P14075	Q6P1K2	0.86928
27805	P14075	Q99700	0.54587
27806	P14075	Q8NCR6	0.45483
27807	P14075	Q9Y6K9	0.61734
27808	P14075	P13807	0.21003
27809	P14075	P56385	0.30705
27810	P14075	F5GYI3	0.9288
27811	P14075	Q969W8	0.25517
27812	P14075	Q569K6	0.046082
27813	P14075	Q9GZZ1	0.28076
27814	P14075	P24385	0.39817
27815	P14075	Q9BXP5	0.82064
27816	P14075	A6NLC5	0.61887

27817	P14075	O43261	0.17224
27818	P14075	Q6P1W5	0.46868
27819	P14075	Q9NS71	0.63238
27820	P14075	Q49A33	0.27331
27821	P14075	Q13363	0.31544
27822	P14075	O94855	0.1654
27823	P14075	P62256	0.11125
27824	P14075	P63146	0.16118
27825	P14075	Q8WUZ0	0.82681
27826	P14075	Q7Z794	0.72566
27827	P14075	Q6ZV80	0.2813
27828	P14075	Q9UKI9	0.99687
27829	P14075	O43148	0.72694
27830	P14075	Q8WVK2	0.85021
27831	P14075	Q8NHX4	0.84807
27832	P14075	Q9H4K1	0.66429
27833	P14075	P0DI83	0.46369
27834	P14075	Q86W56	0.33308
27835	P14075	Q9BXS5	0.46153
27836	P14075	O75154	0.5128
27837	P14075	O95678	0.53972
27838	P14075	Q6NUN7	0.63821
27839	P14075	Q9HB65	0.3402
27840	P14075	Q7Z745	0.35465
27841	P14075	Q5TA31	0.30561
27842	P14075	Q9H3P2	0.85132
27843	P14075	P56277	0.86523
27844	P14075	Q9Y473	0.13982
27845	P14075	P52758	0.21757
27846	P14075	Q6P9B9	0.61175
27847	P14075	Q9BQE9	0.896
27848	P14075	O76011	0.80046
27849	P14075	Q9ULJ6	0.27776
27850	P14075	A6NJJ6	0.94025
27851	P14075	Q8TB69	0.27773
27852	P14075	Q8N1D5	0.33525
27853	P14075	Q9ULK2	0.48825
27854	P14075	Q8IWN6	0.45146
27855	P14075	P10124	0.40275
27856	P14075	Q9NPB6	0.43672
27857	P14075	Q9Y6Z2	0.63821
27858	P14075	Q96LW1	0.28409
27859	P14075	P13010	0.20384
27860	P14075	P61962	0.47179
27861	P14075	Q9NRA8	0.71859
27862	P14075	Q03923	0.31975
27863	P14075	Q9UBU9	0.28899
27864	P14075	P35900	0.80046
27865	P14075	P46783	1.0088
27866	P14075	Q75L30	0.63821
27867	P14075	Q9BXW3	0.63821
27868	P14075	P41970	0.65558
27869	P14075	Q7Z7H8	0.091521
27870	P14075	Q8WVM0	0.41095
27871	P14075	Q12894	0.34215
27872	P14075	Q96GX2	0.75906
27873	P14075	Q15329	0.97588
27874	P14075	P48200	0.19927
27875	P14075	Q9P287	0.44431
27876	P14075	Q8IVN3	0.73981
27877	P14075	Q14974	0.75038
27878	P14075	O95613	0.45845
27879	P14075	O75529	0.39315
27880	P14075	O95685	0.23444
27881	P14075	P0C852	0.63821
27882	P14075	Q9BYR7	0.91867
27883	P14075	Q5TA77	0.63821
27884	P14075	Q9P209	0.49555
27885	P14075	Q14203	0.62011
27886	P14075	Q9GZN7	0.53989
27887	P14075	Q96DZ1	0.13728
27888	P14075	P81877	0.30497
27889	P14075	O95125	0.13203
27890	P14075	P56282	0.24219
27891	P14075	P22415	0.35483
27892	P14075	Q8NFI3	0.36773

27893	P14075	Q96M29	0.42716
27894	P14075	Q96NS1	0.15812
27895	P14075	Q4U2R6	0.68898
27896	P14075	Q5VZ46	0.37083
27897	P14075	Q9UBS4	0.21941
27898	P14075	P62701	0.29185
27899	P14075	Q86WP2	0.54598
27900	P14075	Q92985	0.37021
27901	P14075	Q9UMS6	0.34709
27902	P14075	Q0VG06	0.31138
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27905	P14075	Q8NBZ9	0.44967
27906	P14075	Q96DE9	0.04993
27907	P14075	P07741	0.35148
27908	P14075	A6NDB9	0.63116
27909	P14075	P84022	0.37919
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27911	P14075	Q86V71	0.21527
27912	P14075	Q8NFP0	0.7202
27913	P14075	Q6NVH7	0.52696
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27915	P14075	P59998	0.14134
27916	P14075	Q13144	0.33322
27917	P14075	Q15003	0.6329
27918	P14075	Q96JG6	0.10058
27919	P14075	Q96AT1	0.94025
27920	P14075	P21980	0.14167
27921	P14075	Q5XKP0	0.31005
27922	P14075	P60372	0.78356
27923	P14075	Q6ZUJ4	0.79138
27924	P14075	Q9HAN9	0.20588
27925	P14075	Q8N3X6	0.62135
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27927	P14075	Q96E40	0.019759
27928	P14075	Q9H3F6	0.24788
27929	P14075	Q9H3H9	0.7023
27930	P14075	Q9NP92	0.85025
27931	P14075	Q13070	0.079883
27932	P14075	Q53HI1	0.49328
27933	P14075	Q96AN2	0.30215
27934	P14075	Q9BYP8	0.63821
27935	P14075	P25815	0.29241
27936	P14075	P49790	0.77638
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27938	P14075	Q86VY4	0.30246
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27942	P14075	O60437	0.46214
27943	P14075	Q96DN6	0.74462
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27947	P14075	Q16621	0.38174
27948	P14075	Q9UL33	0.24845
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27950	P14075	Q9H4B0	0.6929
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27953	P14075	Q96S55	0.27999
27954	P14075	Q9H1B4	0.23695
27955	P14075	Q9H7S9	0.53442
27956	P14075	Q9BZV1	0.8729
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27959	P14075	Q6J272	0.85481
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27961	P14075	Q9H0G5	0.40519
27962	P14075	Q496H8	0.58096
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27974	P14075	Q5VTQ0	0.19586
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27976	P14075	Q14525	0.70903
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27978	P14075	P62899	0.44977
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27983	P14075	Q8N720	0.70518
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27994	P14075	O43324	0.81388
27995	P14075	P37275	0.64771
27996	P14075	P0DKX0	0.24892
27997	P14075	P01215	0.45771
27998	P14075	Q0VFX4	0.50179
27999	P14075	P59991	0.93909
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28003	P14075	Q5VT03	0.72275
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28051	P14075	Q9BUH6	0.63401
28052	P14075	O75330	0.16615
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28084	P14075	O94842	0.39331
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28095	P14075	Q6ZNK6	1.0575
28096	P14075	P62314	0.62088
28097	P14075	O95271	0.39028
28098	P14075	P28290	0.48722
28099	P14075	Q8N9L7	0.22473
28100	P14075	Q8N328	0.14386
28101	P14075	Q13112	1.0919
28102	P14075	Q86WZ0	0.46922
28103	P14075	Q8IZL2	0.61793
28104	P14075	Q9H0I3	0.31658
28105	P14075	Q9NVV2	0.63821
28106	P14075	Q9UI72	0.63821
28107	P14075	Q86Y01	0.3628
28108	P14075	Q1ZZU3	0.39132
28109	P14075	O15040	0.1668
28110	P14075	Q5T3J3	0.74704
28111	P14075	Q9BRP4	0.25575
28112	P14075	Q6PII3	0.65761
28113	P14075	Q9BUB7	0.60076
28114	P14075	O75800	0.23613
28115	P14075	Q5TC04	0.28117
28116	P14075	P41567	0.71356
28117	P14075	O95848	0.63845
28118	P14075	O43823	0.25586
28119	P14075	Q13233	0.37975
28120	P14075	Q9BVJ6	0.53608

28121	P14075	Q9UPA5	0.08854
28122	P14075	P04732	0.28594
28123	P14075	Q6UYE1	0.86718
28124	P14075	P38919	0.14204
28125	P14075	Q9UK13	0.29291
28126	P14075	Q15046	0.57543
28127	P14075	Q8IZY5	0.14549
28128	P14075	Q9BYS1	0.78379
28129	P14075	Q8N684	0.32421
28130	P14075	Q9UM13	0.44572
28131	P14075	Q9NX95	0.31578
28132	P14075	Q9UJW0	0.30262
28133	P14075	Q2M238	0.056147
28134	P14075	Q5JYT7	0.037403
28135	P14075	P10914	0.27111
28136	P14075	Q7Z7F7	0.50361
28137	P14075	Q96G25	0.83155
28138	P14075	Q6XQN6	0.045954
28139	P14075	Q9BUL9	0.97916
28140	P14075	Q8WUQ7	0.042906
28141	P14075	Q8NEG2	0.41175
28142	P14075	Q9H4D5	0.35883
28143	P14075	Q8TBB1	0.51142
28144	P14075	Q8TDN6	0.12802
28145	P14075	Q14181	0.36134
28146	P14075	Q5JSZ5	0.86894
28147	P14075	Q6ZTI6	0.74099
28148	P14075	Q14980	0.77533
28149	P14075	Q9Y4Y9	0.51576
28150	P14075	O94921	0.22444
28151	P14075	Q6ZW13	0.63821
28152	P14075	Q96NG5	0.30146
28153	P14075	Q1RMZ1	0.56636
28154	P14075	Q6IEG0	0.41447
28155	P14075	Q96FV9	0.68149
28156	P14075	Q6ZRV2	0.84788
28157	P14075	Q9Y592	0.89371
28158	P14075	Q8NFD4	0.23896
28159	P14075	Q9UBQ5	0.70638
28160	P14075	Q9UIV1	0.91432
28161	P14075	Q8N9K7	0.63821
28162	P14075	Q9UQ88	0.12529
28163	P14075	O75155	0.52483
28164	P14075	Q9BW71	0.93918
28165	P14075	P59942	0.54235
28166	P14075	Q9BU02	0.73128
28167	P14075	P40337	0.56071
28168	P14075	O75909	0.85254
28169	P14075	P14625	0.10895
28170	P14075	Q6BDS2	0.41457
28171	P14075	Q1MSJ5	0.88582
28172	P14075	P17544	0.7483
28173	P14075	Q5VTA0	0.33501
28174	P14075	Q2KHR2	0.14646
28175	P14075	A1A519	0.7862
28176	P14075	Q8N6C7	0.049674
28177	P14075	O43290	0.68951
28178	P14075	Q9BQM9	0.37807
28179	P14075	Q96M83	0.10592
28180	P14075	Q03188	0.36274
28181	P14075	Q8N1N4	0.62841
28182	P14075	P30260	0.79986
28183	P14075	Q8TAF5	0.63821
28184	P14075	Q6PI77	0.59544
28185	P14075	P61289	0.65687
28186	P14075	P05386	0.83108
28187	P14075	Q9UKF6	0.52969
28188	P14075	Q9Y3A2	0.62937
28189	P14075	Q14061	0.45625
28190	P14075	Q9NVE4	0.30764
28191	P14075	Q8N8F4	0.12996
28192	P14075	Q9NY12	0.30668
28193	P14075	A8MTZ0	0.51834
28194	P14075	Q8IUUC2	1.0403
28195	P14075	Q7Z3K3	0.27719
28196	P14075	Q3SXR2	0.31842



28197	P14075	Q96ES7	0.10368
28198	P14075	A1A4F0	0.030182
28199	P14075	Q8NG31	0.55517
28200	P14075	Q7L590	0.74964
28201	P14075	Q9UJX3	0.46355
28202	P14075	O60927	0.63447
28203	P14075	Q99081	0.34951
28204	P14075	Q92905	0.48979
28205	P14075	Q96KD3	1.1182
28206	P14075	O43482	0.35164
28207	P14075	Q9UII5	0.19195
28208	P14075	Q9NVM9	0.83518
28209	P14075	O00267	0.86242
28210	P14075	Q8TDN4	0.60369
28211	P14075	Q9Y5V3	0.5984
28212	P14075	Q8WXX7	0.56678
28213	P14075	Q04837	0.29877
28214	P14075	Q9BSD3	0.1893
28215	P14075	Q9H1B7	0.68681
28216	P14075	Q5EBM0	0.59634
28217	P14075	Q4G0N7	0.59127
28218	P14075	Q8WVV9	0.041936
28219	P14075	Q2QGD7	0.51283
28220	P14075	Q5K130	0.33082
28221	P14075	Q8N8E3	0.18663
28222	P14075	Q99622	0.13611
28223	P14075	P07311	0.68515
28224	P14075	Q9Y2W1	0.62119
28225	P14075	Q9NNW5	0.36237
28226	P14075	Q8NA57	0.83513
28227	P14075	Q13838	0.093144
28228	P14075	Q9H160	0.30114
28229	P14075	Q7L8J4	0.38519
28230	P14075	Q86U42	0.53946
28231	P14075	Q9Y296	0.11583
28232	P14075	Q6ZMY9	0.28491
28233	P14075	Q9NTI5	0.62668
28234	P14075	Q9P270	0.26596
28235	P14075	Q68DK7	0.67067
28236	P14075	Q8IXW0	0.30783
28237	P14075	Q70Z53	0.76604
28238	P14075	A6NC62	0.096061
28239	P14075	Q9UL03	0.78716
28240	P14075	P55895	0.41836
28241	P14075	O95707	0.76291
28242	P14075	Q9BTE7	0.46489
28243	P14075	Q9NYF0	0.17057
28244	P14075	P0DMB1	0.65129
28245	P14075	Q6NVV0	0.75874
28246	P14075	P40306	0.23061
28247	P14075	P02538	0.5808
28248	P14075	Q9NQ55	0.38794
28249	P14075	O43399	0.36869
28250	P14075	P86496	0.63821
28251	P14075	P07315	0.32863
28252	P14075	P17535	0.72717
28253	P14075	Q9BX82	0.28313
28254	P14075	Q14188	0.5583
28255	P14075	O14633	0.63821
28256	P14075	Q96EK6	0.23299
28257	P14075	P61353	0.4006
28258	P14075	P0CE67	0.63821
28259	P14075	P51668	0.43503
28260	P14075	Q9NYG5	0.49821
28261	P14075	O60260	0.27859
28262	P14075	Q969H0	0.49575
28263	P14075	P14672	0.54871
28264	P14075	Q8N660	1.0145
28265	P14075	P31948	0.64947
28266	P14075	P49454	0.42034
28267	P14075	P37837	0.54905
28268	P14075	Q5T8R8	0.10036
28269	P14075	O15446	0.20727
28270	P14075	B4DX44	0.3121
28271	P14075	Q6X4T0	0.15919
28272	P14075	Q9Y4M8	0.078022

28273	P14075	Q9H9A7	0.3518
28274	P14075	Q9NZD4	0.45382
28275	P14075	Q8N859	0.28029
28276	P14075	Q8N9Y4	0.7067
28277	P14075	P29372	0.56693
28278	P14075	P39019	0.62034
28279	P14075	Q5W5X9	0.47304
28280	P14075	Q5JSQ8	0.099695
28281	P14075	Q5SZB4	0.34274
28282	P14075	Q9BXM8	0.63821
28283	P14075	Q6NSI3	1.0154
28284	P14075	P28838	0.6616
28285	P14075	Q92830	0.55645
28286	P14075	A6NFK2	0.21819
28287	P14075	Q9GZX5	0.58898
28288	P14075	Q9NXW9	0.24107
28289	P14075	Q9P032	0.29696
28290	P14075	Q9H9L7	0.17135
28291	P14075	O15205	0.33427
28292	P14075	Q9NX58	0.25431
28293	P14075	Q13617	0.411
28294	P14075	Q6P0N0	0.66395
28295	P14075	Q6PJP8	0.36547
28296	P14075	Q13432	0.28207
28297	P14075	O95178	0.66538
28298	P14075	Q86V15	0.30772
28299	P14075	Q9BSJ2	0.73739
28300	P14075	Q15369	1.0539
28301	P14075	D6RGH6	0.97549
28302	P14075	Q99708	0.45985
28303	P14075	Q86V59	0.32013
28304	P14075	Q92552	0.46751
28305	P14075	P60413	0.78356
28306	P14075	P62424	0.74
28307	P14075	O43513	1.0006
28308	P14075	P49901	0.63821
28309	P14075	Q5FWF6	0.28987
28310	P14075	Q99436	0.47769
28311	P14075	Q92540	0.63783
28312	P14075	P49910	0.50266
28313	P14075	Q9NYV4	0.049103
28314	P14075	Q96N77	0.19576
28315	P14075	Q96IK1	0.053558
28316	P14075	P42167	0.24126
28317	P14075	P43360	0.39464
28318	P14075	Q16626	0.48682
28319	P14075	Q14159	0.98848
28320	P14075	P60608	0.41324
28321	P14075	Q8TAP8	0.64135
28322	P14075	Q92547	0.26808
28323	P14075	O75694	0.42839
28324	P14075	P35527	0.80046
28325	P14075	Q9NRG9	0.65908
28326	P14075	Q8IXS2	0.14679
28327	P14075	Q12765	0.65669
28328	P14075	Q12873	0.38325
28329	P14075	Q9NXE8	0.65177
28330	P14075	Q9UHZ2	0.63821
28331	P14075	O75151	0.43849
28332	P14075	A6NI87	0.55767
28333	P14075	Q9NSE4	0.31993
28334	P14075	H3BRN8	0.025654
28335	P14075	Q9BPZ3	0.43825
28336	P14075	Q96G27	0.7527
28337	P14075	Q9UKJ5	0.26065
28338	P14075	P09467	0.12878
28339	P14075	Q13033	0.45038
28340	P14075	Q3LI62	0.63821
28341	P14075	Q01546	0.60884
28342	P14075	Q96ME1	0.0969
28343	P14075	Q16629	0.45766
28344	P14075	A5YKK6	0.7659
28345	P14075	Q9UNH5	0.32734
28346	P14075	O60225	0.10346
28347	P14075	P52434	0.17958
28348	P14075	Q06265	0.15992

28349	P14075	Q9GZU0	0.71296
28350	P14075	Q96NL8	0.70371
28351	P14075	Q96EK4	0.93454
28352	P14075	Q9BSM1	0.77687
28353	P14075	Q96AE4	0.34412
28354	P14075	Q8WWM1	0.82672
28355	P14075	Q5W111	0.020857
28356	P14075	Q9ULC4	0.25603
28357	P14075	O15049	0.56085
28358	P14075	Q9BPX3	0.61283
28359	P14075	O75427	0.30737
28360	P14075	P32243	0.65127
28361	P14075	P46013	0.18924
28362	P14075	Q96MC2	0.25236
28363	P14075	Q641Q2	0.6299
28364	P14075	Q8N0Y2	0.1488
28365	P14075	Q5JRK9	1.1259
28366	P14075	Q32Q52	0.23864
28367	P14075	Q9H6D7	0.32838
28368	P14075	Q8WXI9	0.30718
28369	P14075	O15355	0.58165
28370	P14075	Q2M3A8	0.29301
28371	P14075	Q63HK3	0.29246
28372	P14075	Q9NRR8	0.49387
28373	P14075	Q9C0D2	0.69661
28374	P14075	Q99627	0.18172
28375	P14075	Q9NUU6	0.64509
28376	P14075	Q96Q89	0.27282
28377	P14075	Q86XK3	0.79656
28378	P14075	O95486	0.1654
28379	P14075	Q9H4A6	0.35893
28380	P14075	Q8WYN3	0.41114
28381	P14075	Q8IUR6	0.7543
28382	P14075	Q96CM3	0.3399
28383	P14075	A6ZKI3	0.47267
28384	P14075	B3KS81	0.15488
28385	P14075	P27816	0.21386
28386	P14075	Q7Z3B4	0.59189
28387	P14075	Q9P2B7	0.94025
28388	P14075	P30307	0.44229
28389	P14075	Q96FX2	0.62066
28390	P14075	Q14814	0.40792
28391	P14075	Q03111	0.9661
28392	P14075	Q9BY44	0.24886
28393	P14075	Q9ULV3	0.085347
28394	P14075	A6NCL2	0.02177
28395	P14075	Q6WBX8	0.24728
28396	P14075	Q9BWT1	0.81687
28397	P14075	P84090	0.49989
28398	P14075	Q8N8G6	0.21733
28399	P14075	Q6ZUC2	0.37143
28400	P14075	Q86YF9	0.073537
28401	P14075	Q96BN8	0.35901
28402	P14075	Q8N9B5	0.48259
28403	P14075	Q9UBW8	0.14526
28404	P14075	O00165	0.45931
28405	P14075	Q6P1N0	0.23025
28406	P14075	Q15031	0.42445
28407	P14075	Q9UMX1	0.5348
28408	P14075	Q96RL1	0.50747
28409	P14075	P51861	0.33993
28410	P14075	P50440	0.27281
28411	P14075	Q6UWI2	0.48976
28412	P14075	Q7Z7A1	0.7888
28413	P14075	Q9P0J0	0.24454
28414	P14075	O75818	0.061121
28415	P14075	Q9NRG4	0.51566
28416	P14075	P43357	0.1668
28417	P14075	Q86X51	0.24041
28418	P14075	Q9Y2X3	0.44885
28419	P14075	P24534	0.37167
28420	P14075	Q71F23	0.31743
28421	P14075	B1AK76	0.81406
28422	P14075	Q9Y5J6	0.23313
28423	P14075	Q9H3K6	0.45887
28424	P14075	Q86XZ4	0.36207

28425	P14075	Q96LT7	0.65263
28426	P14075	Q99471	0.65124
28427	P14075	Q6P1K8	0.15655
28428	P14075	Q8NFB4	0.74228
28429	P14075	Q8WXB4	0.12672
28430	P14075	Q9NS37	0.64587
28431	P14075	Q9ULR5	0.2846
28432	P14075	Q9XR55	0.33705
28433	P14075	P54826	0.1922
28434	P14075	Q5TA50	0.28232
28435	P14075	Q9UKK6	0.46151
28436	P14075	Q9UQF2	0.27664
28437	P14075	O14972	0.21616
28438	P14075	Q9P013	0.62503
28439	P14075	Q12796	1.2352
28440	P14075	A8MWP6	0.63821
28441	P14075	P62829	0.8288
28442	P14075	Q8WTV1	0.72991
28443	P14075	Q9ULD9	0.78999
28444	P14075	Q9Y6X2	0.54936
28445	P14075	Q504U0	0.24573
28446	P14075	O75368	0.33408
28447	P14075	P62280	0.54778
28448	P14075	Q16851	0.2473
28449	P14075	Q10567	0.4048
28450	P14075	Q96C57	0.71417
28451	P14075	Q92567	0.65422
28452	P14075	Q9P1Y5	0.48832
28453	P14075	Q9Y448	0.54541
28454	P14075	O75461	0.13662
28455	P14075	Q6ZQY7	0.53427
28456	P14075	P02533	0.80046
28457	P14075	Q5VTL8	0.94592
28458	P14075	Q9NVV9	0.79362
28459	P14075	O60216	0.55893
28460	P14075	Q96NT1	0.82122
28461	P14075	Q86WQ0	0.3119
28462	P14075	Q8NFB8	0.20595
28463	P14075	Q9P278	0.69108
28464	P14075	Q8TAG6	0.60459
28465	P14075	Q6P3W6	0.48727
28466	P14075	P63167	0.94058
28467	P14075	Q96QE5	0.66358
28468	P14075	I3L0S3	0.63121
28469	P14075	Q96CN9	0.29119
28470	P14075	Q6A162	0.62407
28471	P14075	Q8TCY9	0.50334
28472	P14075	Q8IWL3	0.38447
28473	P14075	P63272	0.78776
28474	P14075	Q92733	0.63821
28475	P14075	Q12968	0.45125
28476	P14075	P02808	0.52302
28477	P14075	Q8NE65	0.26405
28478	P14075	P49591	0.41447
28479	P14075	P42025	0.1461
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28481	P14075	Q9NS73	0.48729
28482	P14075	C9JFL3	0.63821
28483	P14075	A6NGR9	0.75184
28484	P14075	Q8WY22	0.80341
28485	P14075	Q15170	1.3033
28486	P14075	Q6PGQ7	1.0444
28487	P14075	Q9Y3B2	0.54335
28488	P14075	Q15004	0.56663
28489	P14075	O15084	0.50313
28490	P14075	Q9HB71	0.34483
28491	P14075	Q9NRY2	0.65099
28492	P14075	Q9UBW7	0.65842
28493	P14075	P19532	0.46963
28494	P14075	Q8N9Z9	0.42932
28495	P14075	Q70YC5	0.3723
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28497	P14075	Q53S33	0.87205
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28503	P14075	Q9P0J6	0.55862
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28505	P14075	Q96MG7	0.51318
28506	P14075	Q14872	0.63102
28507	P14075	O60829	0.78504
28508	P14075	P83436	0.25922
28509	P14075	C9JLW8	0.56271
28510	P14075	Q6KB66	0.28852
28511	P14075	Q9NV88	0.3608
28512	P14075	Q68EA5	0.30057
28513	P14075	Q8N9R0	0.63821
28514	P14075	P55060	0.65876
28515	P14075	Q96MW1	0.94025
28516	P14075	Q9BPW8	0.51558
28517	P14075	Q8NBT2	0.47096
28518	P14075	Q96F86	0.42698
28519	P14075	Q9NZL4	0.38826
28520	P14075	Q9BZD4	0.5349
28521	P14075	Q7Z5D8	0.34234
28522	P14075	P18583	0.23587
28523	P14075	O75570	0.51646
28524	P14075	Q15776	0.24641
28525	P14075	Q10570	0.59078
28526	P14075	Q14192	0.5256
28527	P14075	Q9NZH4	0.53275
28528	P14075	A0AVK6	0.2637
28529	P14075	Q13541	0.55486
28530	P14075	A6NI79	0.75061
28531	P14075	Q9NPI7	0.15513
28532	P14075	Q8TAE8	0.70789
28533	P14075	Q9HD15	0.36293
28534	P14075	Q8HWS3	0.16579
28535	P14075	Q17RN3	0.51178
28536	P14075	P35237	0.1327
28537	P14075	O75437	0.26696
28538	P14075	Q9BYK8	0.27681
28539	P14075	Q9NS69	0.081256
28540	P14075	Q9ULW6	0.25402
28541	P14075	Q8ND04	0.48924
28542	P14075	Q96A56	0.77198
28543	P14075	O14802	0.072694
28544	P14075	Q9Y305	0.52998
28545	P14075	Q9UBF6	0.48463
28546	P14075	Q495D7	0.085154
28547	P14075	Q9NQ92	0.66876
28548	P14075	Q9UI56	0.63821
28549	P14075	A6NJ78	0.86595
28550	P14075	Q9Y462	0.39201
28551	P14075	Q07020	0.55712
28552	P14075	Q8IWF6	0.50906
28553	P14075	Q8N5T8	0.59539
28554	P14075	Q9Y2F5	0.075517
28555	P14075	O75477	0.39786
28556	P14075	Q3SY84	0.54544
28557	P14075	Q8N1X5	0.63821
28558	P14075	Q9H0W9	0.39601
28559	P14075	Q7Z6K5	0.14756
28560	P14075	Q02930	0.56517
28561	P14075	Q96FF7	0.63821
28562	P14075	P10073	0.22972
28563	P14075	O95411	0.63821
28564	P14075	C9JE40	0.58209
28565	P14075	O00148	0.1599
28566	P14075	Q8WWY3	0.2278
28567	P14075	O94850	0.48497
28568	P14075	Q8NCE8	0.55079
28569	P14075	Q9Y4E1	0.52568
28570	P14075	Q8NHU0	0.15736
28571	P14075	Q5JVG8	0.27372
28572	P14075	A7MCY6	0.49256
28573	P14075	Q96NU7	0.2725
28574	P14075	Q8NFH5	0.38809
28575	P14075	P62508	0.33984
28576	P14075	Q5VT28	0.57471

28577	P14075	Q8NDC0	0.79783
28578	P14075	O43829	0.39345
28579	P14075	Q9Y281	0.21294
28580	P14075	Q8WXU2	0.50325
28581	P14075	Q9BWU0	0.2928
28582	P14075	Q5T6F2	0.79864
28583	P14075	O14757	0.43158
28584	P14075	Q8N8Z3	0.063746
28585	P14075	Q5XUX0	0.67487
28586	P14075	Q9H171	0.13547
28587	P14075	Q9BTC8	0.39335
28588	P14075	Q96E16	0.59931
28589	P14075	Q96M63	0.10081
28590	P14075	Q8N3X1	0.16679
28591	P14075	Q9NUS5	0.2762
28592	P14075	P62263	0.32522
28593	P14075	Q8NEP9	0.2718
28594	P14075	Q0P140	0.54739
28595	P14075	O14556	0.29723
28596	P14075	Q5U623	0.50965
28597	P14075	P0C7I6	0.59659
28598	P14075	Q5T280	0.97394
28599	P14075	Q12834	0.60316
28600	P14075	Q96CW5	0.58999
28601	P14075	Q9NUW8	0.43989
28602	P14075	O14513	0.3611
28603	P14075	P22392	0.20977
28604	P14075	Q14978	0.704
28605	P14075	Q9Y3V2	0.55947
28606	P14075	Q96EY1	0.27751
28607	P14075	A4D174	0.090536
28608	P14075	Q969L4	0.4873
28609	P14075	Q96006	0.64678
28610	P14075	Q0P641	0.024697
28611	P14075	Q8N661	0.75144
28612	P14075	O15318	0.79117
28613	P14075	Q9P2K3	0.88369
28614	P14075	Q9Y2B5	0.32713
28615	P14075	Q08AG5	0.43767
28616	P14075	Q9UBL0	0.22318
28617	P14075	Q8WU43	0.0902
28618	P14075	Q00610	0.61561
28619	P14075	P50222	0.44098
28620	P14075	Q96QU4	0.76082
28621	P14075	Q96DP5	0.47958
28622	P14075	P19013	0.60884
28623	P14075	Q9P0W2	0.50666
28624	P14075	Q6MZN7	0.63821
28625	P14075	P11171	0.25534
28626	P14075	P62854	0.61345
28627	P14075	Q8NFV5	0.53769
28628	P14075	Q96CB8	0.28213
28629	P14075	Q6ZTY9	0.34215
28630	P14075	Q8IYE0	0.63147
28631	P14075	A0A183	0.63821
28632	P14075	Q6VY07	0.3376
28633	P14075	Q8N6F7	0.32417
28634	P14075	P60866	0.48566
28635	P14075	Q8IYW8	0.12197
28636	P14075	Q0PNE2	0.5206
28637	P14075	Q8IZ40	0.38482
28638	P14075	C9JN71	0.18615
28639	P14075	Q569H4	0.94025
28640	P14075	Q2M2Z5	0.64889
28641	P14075	Q8N0Y7	0.50609
28642	P14075	Q14145	0.96268
28643	P14075	Q9H7L9	0.46336
28644	P14075	Q9UJY5	0.32552
28645	P14075	Q8N7M0	0.20837
28646	P14075	Q8NF64	0.97699
28647	P14075	Q8NEH6	0.79921
28648	P14075	P09565	0.48035
28649	P14075	Q8ND56	0.65962
28650	P14075	O95644	0.57261
28651	P14075	Q8N9H9	0.63821
28652	P14075	A8MV24	0.30403

28653	P14075	P82675	0.47204
28654	P14075	Q9BQY4	0.64001
28655	P14075	Q15651	0.71508
28656	P14075	Q2TAM9	1.0753
28657	P14075	Q96FV2	0.58341
28658	P14075	Q95201	0.39205
28659	P14075	Q76KX8	0.3048
28660	P14075	Q9Y2Y9	0.54713
28661	P14075	Q9UJT2	0.57314
28662	P14075	Q06609	0.26727
28663	P14075	Q8WTQ4	0.23412
28664	P14075	Q13501	0.26256
28665	P14075	Q5SVJ3	0.27226
28666	P14075	Q701N4	0.63821
28667	P14075	Q8N8G2	0.57276
28668	P14075	Q15181	0.067245
28669	P14075	A6NIY4	0.53769
28670	P14075	Q8N944	0.82301
28671	P14075	Q8N726	0.44178
28672	P14075	Q96T17	0.40055
28673	P14075	P26373	0.71018
28674	P14075	P51826	0.23271
28675	P14075	P07814	0.30327
28676	P14075	Q9H7T3	0.47839
28677	P14075	P50749	0.5281
28678	P14075	Q13367	0.26011
28679	P14075	Q8TB03	0.64017
28680	P14075	Q15021	0.60878
28681	P14075	P81408	0.7527
28682	P14075	P09874	0.48966
28683	P14075	Q5J TZ5	0.27794
28684	P14075	Q9BUV0	0.94025
28685	P14075	Q9Y2X0	0.36423
28686	P14075	Q8N823	0.2118
28687	P14075	Q9BTX9	0.65143
28688	P14075	A6NLI3	0.062068
28689	P14075	P62877	0.33197
28690	P14075	Q15527	0.51836
28691	P14075	O75956	0.34753
28692	P14075	Q7Z3C6	0.25742
28693	P14075	Q8IYT1	0.39362
28694	P14075	Q9HCI5	0.42527
28695	P14075	O43615	0.11289
28696	P14075	Q8NHU2	0.12281
28697	P14075	Q8N972	0.2118
28698	P14075	Q8IYF3	0.30354
28699	P14075	Q7Z7C7	0.3347
28700	P14075	P0DI82	0.17671
28701	P14075	Q8TBN0	0.1389
28702	P14075	Q96NB3	0.26605
28703	P14075	O00198	0.60346
28704	P14075	Q16775	0.30626
28705	P14075	Q14498	0.61618
28706	P14075	O60664	0.2766
28707	P14075	Q96HM7	0.66139
28708	P14075	P35227	0.52285
28709	P14075	O60784	0.15708
28710	P14075	Q96T76	0.662
28711	P14075	O95567	0.63821
28712	P14075	Q5T8I3	0.6496
28713	P14075	O00193	1.074
28714	P14075	Q13045	0.76394
28715	P14075	Q9NRH1	0.33685
28716	P14075	B1ANY3	0.5577
28717	P14075	Q3ZLR7	0.54549
28718	P14075	P61578	0.45541
28719	P14075	P05387	0.38311
28720	P14075	O95429	0.17251
28721	P14075	Q6DKK2	0.6845
28722	P14075	O75346	0.25665
28723	P14075	Q96MY7	0.99153
28724	P14075	Q9GZN8	0.45783
28725	P14075	P33552	0.35453
28726	P14075	Q6VUC0	0.21924
28727	P14075	Q9H1K1	0.56759
28728	P14075	O75164	0.74494

28729	P14075	Q9H875	0.36066
28730	P14075	O43676	0.55791
28731	P14075	Q99575	0.48668
28732	P14075	Q9UM00	0.84599
28733	P14075	Q7Z739	0.53716
28734	P14075	Q15596	0.48625
28735	P14075	Q03252	0.25322
28736	P14075	Q9BWG6	0.38085
28737	P14075	Q86UW9	0.61649
28738	P14075	Q9BTL4	0.66602
28739	P14075	P20749	0.25855
28740	P14075	Q8TC76	1.2058
28741	P14075	Q53GL7	0.3282
28742	P14075	A6NP11	0.31228
28743	P14075	Q9H8Y1	0.78019
28744	P14075	O94913	0.13499
28745	P14075	Q4KMQ1	0.68828
28746	P14075	Q9H3L0	0.93187
28747	P14075	P56945	0.37783
28748	P14075	Q4VC44	0.58427
28749	P14075	Q9Y6G3	0.14172
28750	P14075	Q96P71	0.24351
28751	P14075	Q9NRN7	0.28341
28752	P14075	Q14152	0.82125
28753	P14075	P18887	0.3963
28754	P14075	Q8N7K0	0.2118
28755	P14075	Q96GY3	0.60102
28756	P14075	Q9NYF3	0.60037
28757	P14075	O43765	0.42702
28758	P14075	Q32MH5	0.56973
28759	P14075	O95905	0.51549
28760	P14075	Q2M2I5	0.80046
28761	P14075	Q96ED9	0.28138
28762	P14075	A6NKH3	0.32368
28763	P14075	Q6MZQ0	0.35701
28764	P14075	Q8N3L3	0.53095
28765	P14075	O75690	0.63821
28766	P14075	Q8NA72	0.058739
28767	P14075	Q7Z6M4	0.57896
28768	P14075	Q68EN5	0.3247
28769	P14075	Q5T5S1	0.37205
28770	P14075	Q9UJW9	1.2384
28771	P14075	Q8N0Z3	0.36924
28772	P14075	Q96FJ8	0.63821
28773	P14075	Q5T0F9	0.18125
28774	P14075	A8MU76	0.54875
28775	P14075	Q2KHR3	0.043139
28776	P14075	O14990	0.64925
28777	P14075	Q8WTW3	0.58033
28778	P14075	P23297	0.31285
28779	P14075	Q9BUE0	0.84633
28780	P14075	Q9UPP5	0.75174
28781	P14075	Q6P280	0.33703
28782	P14075	A6NKN8	0.96685
28783	P14075	P62310	0.47978
28784	P14075	Q6P656	0.15022
28785	P14075	Q8N7B7	0.14264
28786	P14075	Q96EP1	0.41472
28787	P14075	O95190	0.62712
28788	P14075	Q96NT3	0.35734
28789	P14075	Q9BVP2	0.14349
28790	P14075	B1APH4	0.23684
28791	P14075	Q68DL7	0.63821
28792	P14075	Q9BY77	0.21626
28793	P14075	Q86YP4	0.63879
28794	P14075	Q6PD74	0.41451
28795	P14075	O60535	0.24348
28796	P14075	Q9NSQ0	0.26322
28797	P14075	Q66K80	0.63821
28798	P14075	Q9NVS2	0.71424
28799	P14075	Q9GZR1	0.23528
28800	P14075	Q8IVM7	0.63821
28801	P14075	Q8N8X9	0.20592
28802	P14075	O95989	0.28692
28803	P14075	A6NHS1	0.65093
28804	P14075	Q8TF32	0.31228



28805	P14075	P18846	0.63447
28806	P14075	Q9Y5K5	0.1725
28807	P14075	Q63HN1	0.48314
28808	P14075	Q9H7J1	0.46414
28809	P14075	Q9P2R7	0.3009
28810	P14075	Q14244	0.58704
28811	P14075	Q9UN37	0.32278
28812	P14075	Q9ULH7	0.68993
28813	P14075	Q6S9Z5	0.71351
28814	P14075	Q07955	0.44556
28815	P14075	Q14135	0.19547
28816	P14075	P52948	0.70774
28817	P14075	O75157	0.48009
28818	P14075	Q75VX8	1.0319
28819	P14075	P51948	0.36569
28820	P14075	Q8WTS6	0.30884
28821	P14075	E9PAV3	0.31079
28822	P14075	Q9UMX0	0.51106
28823	P14075	O75530	0.43437
28824	P14075	Q9BZE9	0.55735
28825	P14075	Q8N812	0.43721
28826	P14075	Q9H503	0.22264
28827	P14075	Q9NXX8	0.37695
28828	P14075	Q6U949	0.63821
28829	P14075	P62258	0.57796
28830	P14075	Q9BYQ6	0.78356
28831	P14075	Q86TG7	0.29009
28832	P14075	Q96L92	0.48375
28833	P14075	Q9UGB4	0.63821
28834	P14075	Q9BY27	0.32697
28835	P14075	Q9Y6R6	0.2118
28836	P14075	Q04864	0.85778
28837	P14075	Q5T953	0.98003
28838	P14075	A1A4G5	0.63821
28839	P14075	Q15072	0.13307
28840	P14075	P48539	0.46205
28841	P14075	Q9BSK0	0.85698
28842	P14075	Q9NY87	0.82289
28843	P14075	Q9Y2G2	0.26668
28844	P14075	O75177	0.64704
28845	P14075	P55808	0.93918
28846	P14075	Q8N6U2	0.31618
28847	P14075	Q15276	0.23447
28848	P14075	O75334	0.32542
28849	P14075	A4GXA9	0.64924
28850	P14075	Q8N3U4	0.48005
28851	P14075	P52298	0.43776
28852	P14075	Q8WWR9	0.79845
28853	P14075	O00321	0.16138
28854	P14075	Q8TAK5	0.24671
28855	P14075	Q96C34	0.50317
28856	P14075	Q6UXP7	0.15942
28857	P14075	P18850	0.38769
28858	P14075	Q9HA90	0.94025
28859	P14075	Q6ZV60	0.63821
28860	P14075	Q9Y2K5	0.31665
28861	P14075	Q96LK8	0.16665
28862	P14075	Q5T200	0.65413
28863	P14075	Q3SY05	0.13569
28864	P14075	A2A288	0.41634
28865	P14075	Q8TBZ9	0.88187
28866	P14075	Q3MJ40	0.13808
28867	P14075	Q5T4H9	0.63821
28868	P14075	Q96EK5	0.13098
28869	P14075	Q7L4P6	0.56946
28870	P14075	O75152	0.20455
28871	P14075	Q8IX03	0.73049
28872	P14075	Q9UJC5	0.4588
28873	P14075	Q5H9I0	0.22463
28874	P14075	Q9H6Z9	0.29335
28875	P14075	O43299	0.8756
28876	P14075	Q8IW35	0.82645
28877	P14075	Q5BJF2	0.4504
28878	P14075	Q8I WV8	0.14158
28879	P14075	Q96CW6	0.85637
28880	P14075	O75531	0.50359

28881	P14075	Q9UKK3	0.42491
28882	P14075	Q9NYB0	0.64456
28883	P14075	Q8WX92	1.1625
28884	P14075	Q5VYK3	0.12263
28885	P14075	Q8IZX4	0.23099
28886	P14075	A8MV72	0.53375
28887	P14075	Q6GMV2	0.25209
28888	P14075	Q9BQ90	0.4948
28889	P14075	Q9UL41	0.49713
28890	P14075	Q17RB0	0.49014
28891	P14075	Q9BU76	0.90542
28892	P14075	Q9Y4B6	0.5966
28893	P14075	Q3C1V9	0.26466
28894	P14075	P58340	0.27539
28895	P14075	Q9Y697	0.40956
28896	P14075	O95551	0.48589
28897	P14075	P05787	1.0818
28898	P14075	Q9H5Y0	0.56988
28899	P14075	P52435	0.40938
28900	P14075	Q3KP31	0.2763
28901	P14075	Q14771	0.46087
28902	P14075	P10243	0.25954
28903	P14075	Q96F83	0.30753
28904	P14075	Q9H8M7	0.53501
28905	P14075	A4D1U4	0.3796
28906	P14075	Q5I0X4	0.94025
28907	P14075	Q8N888	0.65442
28908	P14075	O75031	0.39925
28909	P14075	A6NGK3	0.50458
28910	P14075	Q9Y3D0	0.70685
28911	P14075	Q8IUB9	0.63821
28912	P14075	Q9BUG6	0.14433
28913	P14075	Q8N4J0	0.8714
28914	P14075	Q9H668	0.021488
28915	P14075	P53803	0.53073
28916	P14075	Q15543	0.79809
28917	P14075	Q8WYQ5	0.46294
28918	P14075	Q7Z3E2	0.84195
28919	P14075	Q9UIC8	0.18887
28920	P14075	Q9HBE1	0.08421
28921	P14075	P52741	0.10726
28922	P14075	P25063	0.63821
28923	P14075	Q8N9W5	0.27819
28924	P14075	Q9UPT5	0.33615
28925	P14075	Q6XXX2	0.047706
28926	P14075	Q538Z0	0.63821
28927	P14075	Q6NT46	0.45588
28928	P14075	Q13023	0.37428
28929	P14075	Q2T9F4	0.15501
28930	P14075	Q14693	0.18961
28931	P14075	Q8WVP5	0.89587
28932	P14075	Q9Y675	0.76082
28933	P14075	P15924	0.22698
28934	P14075	Q3LI83	0.84358
28935	P14075	Q9NWK9	0.53928
28936	P14075	Q7L8S5	0.25321
28937	P14075	Q14140	1.2688
28938	P14075	Q9UC07	0.18107
28939	P14075	Q6ZN84	0.3483
28940	P14075	I3L3R5	0.63821
28941	P14075	Q9UNK9	0.14325
28942	P14075	P25789	0.48239
28943	P14075	Q7Z4Q2	0.68445
28944	P14075	Q86TP1	0.52789
28945	P14075	Q8TBR5	0.18133
28946	P14075	Q96M15	0.043605
28947	P14075	Q13761	0.6078
28948	P14075	Q3LHN0	1.0514
28949	P14075	P24864	0.45881
28950	P14075	Q9H869	1.0792
28951	P14075	O75167	0.10962
28952	P14075	P10599	0.269
28953	P14075	Q99689	0.14367
28954	P14075	Q969H6	0.62526
28955	P14075	Q8N9T8	1.1422
28956	P14075	Q71UM5	0.36106

28957	P14075	Q96PP4	0.37914
28958	P14075	Q9H6T0	0.14984
28959	P14075	Q49B96	0.37179
28960	P14075	Q9HBM6	0.46726
28961	P14075	Q08AD1	0.34415
28962	P14075	Q96QK1	0.38775
28963	P14075	P05114	0.32618
28964	P14075	Q8N8K9	0.15669
28965	P14075	Q9BZI7	0.56865
28966	P14075	P36543	0.084738
28967	P14075	Q14579	0.29675
28968	P14075	Q9H1J1	0.7589
28969	P14075	Q5TAP6	0.65111
28970	P14075	Q16534	0.23441
28971	P14075	P45984	0.25614
28972	P14075	Q96M61	0.1668
28973	P14075	Q9HCM1	0.89407
28974	P14075	Q14CZ0	1.1739
28975	P14075	A4D0V7	0.74595
28976	P14075	Q03938	0.29644
28977	P14075	Q8TD19	0.25459
28978	P14075	Q3B820	0.84358
28979	P14075	Q9UIY3	0.29794
28980	P14075	Q9Y314	0.65943
28981	P14075	Q13895	0.4515
28982	P14075	P69905	0.21852
28983	P14075	Q9NUD7	0.02377
28984	P14075	Q9NPG3	0.58938
28985	P14075	Q9NYJ8	0.27222
28986	P14075	Q9BQ61	0.94025
28987	P14075	Q8N5Q1	1.1182
28988	P14075	Q5T754	0.63821
28989	P14075	P61927	0.411
28990	P14075	Q7RTV0	0.28589
28991	P14075	Q13888	0.42488
28992	P14075	Q9Y3A5	0.48976
28993	P14075	Q9Y5U8	0.45274
28994	P14075	P08047	0.57709
28995	P14075	Q8NCU7	1.0195
28996	P14075	Q8N3F0	0.6285
28997	P0C214	P41970	0.83566
28998	P0C214	P0C2W7	0.086276
28999	P0C214	Q8N5I9	0.24937
29000	P0C214	Q9Y536	0.66154
29001	P0C214	Q9NWB7	0.46867
29002	P0C214	Q9HD33	0.68023
29003	P0C214	P62861	1.3088
29004	P0C214	P80217	0.76809
29005	P0C214	Q9BQ67	0.35391
29006	P0C214	Q9Y5A9	0.46237
29007	P0C214	P43351	0.53357
29008	P0C214	P22681	0.44491
29009	P0C214	Q9BSH5	0.43767
29010	P0C214	A6NP61	0.43883
29011	P0C214	Q9Y316	0.53655
29012	P0C214	O00198	0.34319
29013	P0C214	Q9Y3Q8	1.2112
29014	P0C214	Q6ZRN7	0.086276
29015	P0C214	Q9Y2B5	0.11609
29016	P0C214	Q9P1F3	0.52933
29017	P0C214	P40424	0.57258
29018	P0C214	Q8IW19	0.47263
29019	P0C214	Q8WWR8	0.17154
29020	P0C214	Q9BY77	0.41689
29021	P0C214	Q7Z3E2	0.15134
29022	P0C214	P27469	0.77114
29023	P0C214	Q96BN6	0.060302
29024	P0C214	Q86UD4	0.22841
29025	P0C214	P50440	0.0096668
29026	P0C214	P06132	0.59558
29027	P0C214	Q05086	0.61844
29028	P0C214	Q16795	0.17322
29029	P0C214	Q14457	0.42616
29030	P0C214	P61236	0.16769
29031	P0C214	P41250	0.47671
29032	P0C214	Q9Y6R9	0.30221

29033	P0C214	Q9H7E9	0.24937
29034	P0C214	O14933	0.81891
29035	P0C214	A6NDX5	0.37134
29036	P0C214	Q9H147	0.083812
29037	P0C214	Q9UGP4	0.34962
29038	P0C214	Q6ZN55	0.29588
29039	P0C214	Q6X4W1	0.89219
29040	P0C214	Q04446	0.22793
29041	P0C214	Q9H7C4	0.39304
29042	P0C214	Q9BPZ7	0.56272
29043	P0C214	Q92993	1.0045
29044	P0C214	P60520	0.24638
29045	P0C214	Q96BW9	0.34568
29046	P0C214	Q5BKZ1	0.57723
29047	P0C214	Q02833	0.44676
29048	P0C214	Q6NX49	0.22763
29049	P0C214	Q6PDB4	0.49464
29050	P0C214	Q12996	0.19159
29051	P0C214	Q8TAG6	0.047621
29052	P0C214	O00470	0.45318
29053	P0C214	Q9BZI7	0.80125
29054	P0C214	O75683	0.3769
29055	P0C214	Q8N616	0.086276
29056	P0C214	Q8NCT3	0.39893
29057	P0C214	Q13310	0.45338
29058	P0C214	P84098	0.86977
29059	P0C214	O95551	0.73003
29060	P0C214	Q96B02	0.43148
29061	P0C214	Q9NQG7	0.29213
29062	P0C214	A8MPV3	0.072472
29063	P0C214	Q9BSU1	0.4882
29064	P0C214	O00170	0.79955
29065	P0C214	O00268	1.0617
29066	P0C214	P29474	0.52724
29067	P0C214	Q9UKW6	0.35156
29068	P0C214	O94829	0.90472
29069	P0C214	Q9NZL4	0.33549
29070	P0C214	Q96LL4	0.2675
29071	P0C214	Q9UJX6	0.60201
29072	P0C214	Q14997	0.24254
29073	P0C214	Q96CW1	0.56335
29074	P0C214	Q8TEX9	0.31926
29075	P0C214	Q92618	0.17436
29076	P0C214	Q6NZY4	0.58023
29077	P0C214	O43768	0.05135
29078	P0C214	B2RV13	0.53982
29079	P0C214	Q15833	0.31101
29080	P0C214	Q96S94	0.31702
29081	P0C214	P55822	0.59487
29082	P0C214	Q9Y2M2	0.32232
29083	P0C214	Q6ZTC4	0.086276
29084	P0C214	Q9UI26	0.25812
29085	P0C214	Q14410	0.58072
29086	P0C214	Q6NUQ1	0.41213
29087	P0C214	Q9BVJ6	0.76722
29088	P0C214	Q9NRR3	0.40332
29089	P0C214	P53567	0.59995
29090	P0C214	Q14CN4	0.34216
29091	P0C214	Q5SZL2	0.29706
29092	P0C214	Q9UBW5	0.45292
29093	P0C214	Q8N1V2	0.3743
29094	P0C214	Q06732	0.19269
29095	P0C214	Q8NCU1	0.034403
29096	P0C214	Q9UM00	1.1233
29097	P0C214	Q3LI64	0.21795
29098	P0C214	Q96A35	0.60091
29099	P0C214	Q9BZL4	0.45292
29100	P0C214	Q8NEK5	0.30414
29101	P0C214	O75444	0.29835
29102	P0C214	O95243	0.67454
29103	P0C214	Q8TB72	0.49531
29104	P0C214	Q9H081	0.70879
29105	P0C214	O15078	0.55969
29106	P0C214	Q6ICB4	0.12739
29107	P0C214	Q9NQZ8	0.28926
29108	P0C214	Q6RFH5	0.28606

29109	P0C214	Q9HA82	0.28631
29110	P0C214	Q07866	0.60572
29111	P0C214	Q14526	0.45005
29112	P0C214	Q8N163	0.66659
29113	P0C214	P35080	0.33738
29114	P0C214	Q9Y3E1	0.38879
29115	P0C214	Q03052	0.24412
29116	P0C214	P82979	0.35477
29117	P0C214	Q9UKA1	0.2671
29118	P0C214	P61247	1.3687
29119	P0C214	P51665	0.4302
29120	P0C214	Q9BPX3	0.80148
29121	P0C214	Q8IY18	0.3217
29122	P0C214	P60228	1.051
29123	P0C214	Q9BTM9	0.89975
29124	P0C214	P49406	0.51314
29125	P0C214	B3EWG6	0.24937
29126	P0C214	Q9NRP2	0.61231
29127	P0C214	Q8TAI1	0.022733
29128	P0C214	P18850	0.55201
29129	P0C214	P53990	0.45014
29130	P0C214	Q96HJ3	0.24937
29131	P0C214	Q9BWW4	0.59458
29132	P0C214	Q96P26	0.14583
29133	P0C214	O15198	0.50374
29134	P0C214	Q15742	0.3131
29135	P0C214	O43684	0.71048
29136	P0C214	Q5VU69	0.22498
29137	P0C214	Q9BW11	0.29396
29138	P0C214	Q8NFW9	0.28853
29139	P0C214	Q9Y6P5	0.43066
29140	P0C214	Q16637	1.0072
29141	P0C214	Q5MIZ7	0.37536
29142	P0C214	Q9Y5L0	0.87747
29143	P0C214	Q96J02	0.4187
29144	P0C214	Q8NI51	0.5141
29145	P0C214	Q5H9R7	1.1614
29146	P0C214	Q9UI08	0.21797
29147	P0C214	Q9UHZ2	0.086276
29148	P0C214	P02794	0.98278
29149	P0C214	P54198	0.94998
29150	P0C214	P61923	0.32617
29151	P0C214	P08697	0.85505
29152	P0C214	Q5JQF7	0.086276
29153	P0C214	Q96GM8	0.35092
29154	P0C214	Q03989	0.28774
29155	P0C214	Q9HAJ7	0.98806
29156	P0C214	Q9Y6X2	0.71423
29157	P0C214	Q6IQ32	0.36931
29158	P0C214	H3BU77	0.3362
29159	P0C214	O14490	0.27756
29160	P0C214	D6RGH6	1.1673
29161	P0C214	Q8IY42	0.79876
29162	P0C214	Q9Y2W2	0.67038
29163	P0C214	A6NIE6	0.56712
29164	P0C214	Q7Z3K3	0.40675
29165	P0C214	A6NCW3	0.53828
29166	P0C214	P51114	0.014757
29167	P0C214	Q96C28	0.39613
29168	P0C214	Q9UHB7	1.3515
29169	P0C214	Q9HBH1	0.62943
29170	P0C214	Q96B67	0.25112
29171	P0C214	Q9Y399	0.9174
29172	P0C214	Q96BK5	0.52218
29173	P0C214	O15287	0.90254
29174	P0C214	Q96FV9	0.76691
29175	P0C214	O76011	0.58756
29176	P0C214	Q9Y6X4	0.84223
29177	P0C214	Q9GZZ9	0.19711
29178	P0C214	P30084	0.405
29179	P0C214	P62312	0.95657
29180	P0C214	O00213	0.33321
29181	P0C214	Q8N5N7	0.47684
29182	P0C214	P08729	1.3356
29183	P0C214	Q9BUH8	0.33709
29184	P0C214	Q8NHW5	0.27701

29185	P0C214	Q92585	0.91574
29186	P0C214	Q96T66	0.29901
29187	P0C214	Q8IWJ2	0.54945
29188	P0C214	Q05BW5	0.10665
29189	P0C214	P35754	0.57477
29190	P0C214	Q14527	0.39627
29191	P0C214	Q8N371	0.32832
29192	P0C214	O75608	0.43666
29193	P0C214	P55735	0.56882
29194	P0C214	Q96MU6	0.25117
29195	P0C214	Q8IYB1	0.12874
29196	P0C214	Q9P255	0.37249
29197	P0C214	Q9NQR7	0.086276
29198	P0C214	Q6B0B8	0.34167
29199	P0C214	O75865	0.64403
29200	P0C214	Q9Y3T9	0.92832
29201	P0C214	Q9H9Q4	0.36028
29202	P0C214	Q15007	0.37377
29203	P0C214	Q9BUK0	0.78076
29204	P0C214	Q3LI81	0.6322
29205	P0C214	Q8ND07	0.85883
29206	P0C214	Q8ND76	0.4883
29207	P0C214	Q32M92	0.055577
29208	P0C214	O94927	0.37012
29209	P0C214	P20248	0.94664
29210	P0C214	Q96NL8	0.27067
29211	P0C214	Q9H825	0.17526
29212	P0C214	A8MQ11	0.2972
29213	P0C214	O14813	0.20519
29214	P0C214	Q9UHL9	0.26807
29215	P0C214	Q17RB0	0.17928
29216	P0C214	O95671	0.5976
29217	P0C214	Q3MIT2	0.30179
29218	P0C214	P82930	0.57625
29219	P0C214	P51946	0.52977
29220	P0C214	P24863	1.0391
29221	P0C214	Q8IVV7	0.15553
29222	P0C214	Q8WTX7	0.19098
29223	P0C214	P48728	0.089107
29224	P0C214	P49354	0.33544
29225	P0C214	Q8WX92	1.4696
29226	P0C214	Q9H832	0.85583
29227	P0C214	Q8IX04	0.28316
29228	P0C214	Q8TAP9	1.2581
29229	P0C214	Q9UKN5	0.31779
29230	P0C214	Q96FX7	0.37753
29231	P0C214	P49419	0.93156
29232	P0C214	Q8N9A8	0.27409
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29234	P0C214	Q14532	0.38807
29235	P0C214	O15083	0.43551
29236	P0C214	Q96CJ1	1.1288
29237	P0C214	O15234	0.97002
29238	P0C214	Q58F21	0.24157
29239	P0C214	Q9P278	0.76403
29240	P0C214	Q13619	0.36567
29241	P0C214	O75306	0.42396
29242	P0C214	Q96RE9	0.26948
29243	P0C214	P35226	0.52263
29244	P0C214	Q58FG0	0.8863
29245	P0C214	Q13907	0.37342
29246	P0C214	Q9H5Z6	0.2675
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29248	P0C214	Q13617	0.7745
29249	P0C214	Q8NA19	0.24078
29250	P0C214	A9QM74	0.5537
29251	P0C214	Q13761	0.67793
29252	P0C214	Q96KH6	0.20081
29253	P0C214	Q9NZT2	0.023023
29254	P0C214	Q9NZN8	0.91198
29255	P0C214	O15116	0.9542
29256	P0C214	Q8IX03	1.1126
29257	P0C214	Q8N1G1	0.23781
29258	P0C214	Q96M61	0.2675
29259	P0C214	Q13405	0.68937
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29261	P0C214	Q9UGC7	0.27126
29262	P0C214	Q14739	0.28956
29263	P0C214	Q5TEZ4	0.086276
29264	P0C214	Q969W3	0.58117
29265	P0C214	Q17RN3	0.12146
29266	P0C214	P26368	0.5254
29267	P0C214	Q9Y3D5	0.54478
29268	P0C214	A6NCL1	0.13382
29269	P0C214	Q96NS1	0.16769
29270	P0C214	P0DI83	0.35283
29271	P0C214	P09417	0.1646
29272	P0C214	Q8I WV8	0.33188
29273	P0C214	Q96S65	0.89872
29274	P0C214	P60709	0.10604
29275	P0C214	Q13257	0.72411
29276	P0C214	Q15327	0.46509
29277	P0C214	Q56P42	0.12649
29278	P0C214	Q96QA6	0.16769
29279	P0C214	Q86V59	0.28996
29280	P0C214	Q8WTP9	0.80497
29281	P0C214	Q86XI2	0.876
29282	P0C214	Q8NAX2	0.24937
29283	P0C214	Q5JTD0	0.93134
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29287	P0C214	Q05195	0.51295
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29290	P0C214	Q9NWW7	0.45005
29291	P0C214	P41220	0.50727
29292	P0C214	Q9H6T0	0.16429
29293	P0C214	Q15059	1.1239
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29295	P0C214	O75935	0.82408
29296	P0C214	Q9Y3I1	0.90072
29297	P0C214	P08294	0.23094
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29304	P0C214	Q6ZN17	1.166
29305	P0C214	Q9UHA2	0.21221
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29308	P0C214	Q16543	0.51688
29309	P0C214	Q9HBK9	0.26451
29310	P0C214	Q8WV28	0.23792
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29312	P0C214	Q96GA3	0.83325
29313	P0C214	P35237	0.78945
29314	P0C214	Q9Y617	0.18141
29315	P0C214	Q5XUX1	0.2675
29316	P0C214	P62316	0.86673
29317	P0C214	Q2M2I5	0.58756
29318	P0C214	Q9NS37	0.75851
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29326	P0C214	Q9BYD2	0.65728
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29328	P0C214	Q9BSY4	0.49121
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29337	P0C214	Q96QE5	0.90707
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29341	P0C214	Q96LV5	0.032037
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29343	P0C214	Q9HCS7	0.42757
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29346	P0C214	Q5JQC4	0.086276
29347	P0C214	Q96A49	1.0901
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29350	P0C214	O75691	0.72324
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29353	P0C214	A0PG75	0.072794
29354	P0C214	Q86TA1	0.24065
29355	P0C214	P60014	0.5539
29356	P0C214	Q9UNZ5	0.24937
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29365	P0C214	Q8IXQ6	0.92806
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29368	P0C214	Q9BUL9	1.0716
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29370	P0C214	P32243	0.73208
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29372	P0C214	Q96EL2	0.36621
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29374	P0C214	P49754	0.39069
29375	P0C214	Q8N228	0.242
29376	P0C214	P35321	0.32578
29377	P0C214	Q5T035	0.11107
29378	P0C214	Q05932	0.29432
29379	P0C214	Q9BYD1	0.84108
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29386	P0C214	Q00597	0.80726
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29391	P0C214	Q9H9J2	0.3993
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29393	P0C214	Q09161	0.82825
29394	P0C214	Q75MW2	0.67518
29395	P0C214	Q16537	0.24755
29396	P0C214	O75874	0.20064
29397	P0C214	Q9P0T4	0.47613
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29400	P0C214	Q7Z6J0	0.36493
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29402	P0C214	Q16763	0.92173
29403	P0C214	Q96NT3	0.14522
29404	P0C214	O75486	0.8041
29405	P0C214	P12035	0.44022
29406	P0C214	Q8NDQ6	0.35056
29407	P0C214	Q9UJK0	0.69155
29408	P0C214	Q9H5I1	0.4967
29409	P0C214	Q96PM5	0.52843
29410	P0C214	Q13887	0.25691
29411	P0C214	Q9NSE4	0.42675
29412	P0C214	Q9H0A6	0.28844



29413	P0C214	Q59F38	0.09337
29414	P0C214	Q96C86	1.1084
29415	P0C214	P35227	0.6041
29416	P0C214	O95817	0.51725
29417	P0C214	O14786	0.38641
29418	P0C214	P49639	0.19275
29419	P0C214	O43678	0.60373
29420	P0C214	P26196	0.68172
29421	P0C214	Q9BQS6	0.78784
29422	P0C214	P14625	0.8256
29423	P0C214	Q8IX12	0.92762
29424	P0C214	Q9BQ65	0.10652
29425	P0C214	P15880	1.1747
29426	P0C214	Q6IS14	0.22733
29427	P0C214	Q8ND56	0.55079
29428	P0C214	Q96T58	0.66293
29429	P0C214	P55036	0.72371
29430	P0C214	Q5XKP0	0.46184
29431	P0C214	O76013	0.51477
29432	P0C214	Q96HI0	0.48359
29433	P0C214	P17032	0.28667
29434	P0C214	P61244	0.78256
29435	P0C214	Q12894	0.39711
29436	P0C214	Q9ULE6	0.74795
29437	P0C214	O14595	0.1896
29438	P0C214	Q06609	0.41319
29439	P0C214	Q5H9M0	0.93308
29440	P0C214	O75663	0.38021
29441	P0C214	P62081	1.2121
29442	P0C214	P42766	1.0598
29443	P0C214	Q9H040	0.39826
29444	P0C214	P11413	0.15753
29445	P0C214	Q12904	0.35796
29446	P0C214	Q14593	0.4838
29447	P0C214	B1AH88	0.086276
29448	P0C214	Q15697	0.41118
29449	P0C214	Q8WW12	0.58979
29450	P0C214	Q9NV31	0.84485
29451	P0C214	A6NGD5	0.22448
29452	P0C214	A8MVS1	0.48315
29453	P0C214	Q6U949	0.086276
29454	P0C214	Q7L8S5	0.37727
29455	P0C214	Q9Y5Z7	0.32801
29456	P0C214	Q9HCZ1	0.27075
29457	P0C214	Q9UI10	0.43653
29458	P0C214	P30307	0.78514
29459	P0C214	P19474	0.45316
29460	P0C214	Q14CX7	0.42462
29461	P0C214	P84101	0.75796
29462	P0C214	Q9H606	0.07667
29463	P0C214	Q02930	0.69066
29464	P0C214	Q04727	0.55649
29465	P0C214	Q9H875	0.31171
29466	P0C214	Q6P0N0	0.93317
29467	P0C214	P56270	0.51272
29468	P0C214	Q7L3T8	0.33602
29469	P0C214	Q9Y2S7	0.66839
29470	P0C214	Q7Z4Q2	0.80089
29471	P0C214	P62913	1.2981
29472	P0C214	O43829	0.52796
29473	P0C214	Q92546	0.81442
29474	P0C214	Q9HAU4	0.52804
29475	P0C214	Q29RF7	0.94319
29476	P0C214	P48788	0.61356
29477	P0C214	Q9UK99	0.39219
29478	P0C214	P29966	0.81427
29479	P0C214	Q5HYW3	0.33636
29480	P0C214	Q9NVH6	0.33741
29481	P0C214	O15111	0.54262
29482	P0C214	Q969Z0	0.42597
29483	P0C214	Q15022	0.53566
29484	P0C214	P68133	0.10604
29485	P0C214	O95810	0.30566
29486	P0C214	A0AVK6	0.29381
29487	P0C214	P22090	0.586
29488	P0C214	Q969G5	0.44153

29489	P0C214	Q8IUC1	0.16924
29490	P0C214	Q8WXF8	1.0814
29491	P0C214	Q9NPP4	0.25268
29492	P0C214	Q00613	0.78198
29493	P0C214	Q9H3H3	0.067003
29494	P0C214	Q9BSJ2	1.0983
29495	P0C214	Q6NZ67	0.57701
29496	P0C214	P35869	0.31809
29497	P0C214	Q7L5A3	0.4476
29498	P0C214	Q9Y5V3	0.67422
29499	P0C214	P51508	0.3048
29500	P0C214	Q13469	1.131
29501	P0C214	Q15024	0.87089
29502	P0C214	Q7Z398	0.26542
29503	P0C214	O95363	0.56206
29504	P0C214	Q15154	0.55287
29505	P0C214	B9ZVM9	1.1928
29506	P0C214	P22695	0.10746
29507	P0C214	Q06787	0.81438
29508	P0C214	Q9UIA9	0.46163
29509	P0C214	Q8IWN6	0.13362
29510	P0C214	Q8TAY7	1.3916
29511	P0C214	Q9NZY2	0.086276
29512	P0C214	Q13573	0.61319
29513	P0C214	Q96MC4	0.65403
29514	P0C214	O95045	0.38549
29515	P0C214	Q9UGB4	0.086276
29516	P0C214	Q9NWN3	0.36372
29517	P0C214	P53672	0.65733
29518	P0C214	Q99643	0.35424
29519	P0C214	Q8NCN5	0.31705
29520	P0C214	O60663	0.37105
29521	P0C214	Q96M53	1.0978
29522	P0C214	Q8N0Z2	0.24219
29523	P0C214	Q14409	0.58072
29524	P0C214	Q9NRL2	0.91961
29525	P0C214	Q9BVC4	0.42312
29526	P0C214	Q5JVS0	0.99479
29527	P0C214	P42166	0.15838
29528	P0C214	P04818	0.19652
29529	P0C214	Q32M84	0.14741
29530	P0C214	Q8WUX2	0.27044
29531	P0C214	Q14331	0.51198
29532	P0C214	Q99832	0.16168
29533	P0C214	P24522	0.47492
29534	P0C214	O14787	0.84428
29535	P0C214	Q9P299	0.080403
29536	P0C214	O43172	0.68299
29537	P0C214	Q8WUX9	0.48809
29538	P0C214	P16989	0.16959
29539	P0C214	O95260	0.063476
29540	P0C214	Q15061	0.54813
29541	P0C214	Q8N335	0.20341
29542	P0C214	Q14207	0.85255
29543	P0C214	Q9C002	0.18383
29544	P0C214	P51610	0.40738
29545	P0C214	P60369	0.43378
29546	P0C214	P11474	0.24379
29547	P0C214	O14681	0.40999
29548	P0C214	Q9H4A6	0.48128
29549	P0C214	Q96M95	0.070287
29550	P0C214	Q9H6Y2	0.44497
29551	P0C214	Q9UGM6	0.069137
29552	P0C214	O75528	0.69428
29553	P0C214	Q9NPE3	0.68813
29554	P0C214	Q58FF7	0.49678
29555	P0C214	O60841	0.3278
29556	P0C214	Q9BU76	0.43827
29557	P0C214	A8MQ14	0.29081
29558	P0C214	Q8NEF3	0.3475
29559	P0C214	Q15047	0.6366
29560	P0C214	Q13330	0.34035
29561	P0C214	Q8NFH5	0.58641
29562	P0C214	Q5T752	0.086276
29563	P0C214	Q96CF2	0.146
29564	P0C214	O14746	0.58345

29565	P0C214	Q8IZP0	0.29899
29566	P0C214	Q8IY31	0.39164
29567	P0C214	Q9H788	0.93554
29568	P0C214	Q86V87	0.41473
29569	P0C214	Q8N2H4	1.1044
29570	P0C214	Q71SY5	0.97172
29571	P0C214	Q96BT3	0.48483
29572	P0C214	P52743	0.39773
29573	P0C214	Q99728	0.29377
29574	P0C214	Q13620	0.75087
29575	P0C214	P35637	0.43023
29576	P0C214	O75896	0.24882
29577	P0C214	P55060	0.73489
29578	P0C214	Q8WY50	0.086276
29579	P0C214	Q8N6F7	0.37404
29580	P0C214	O94868	0.2675
29581	P0C214	Q9BRU2	0.45356
29582	P0C214	A6NF83	0.55397
29583	P0C214	Q13156	0.35739
29584	P0C214	O95238	0.080499
29585	P0C214	O95153	0.65701
29586	P0C214	Q13952	0.60666
29587	P0C214	Q08AD1	0.35925
29588	P0C214	Q9BQ83	0.54619
29589	P0C214	Q9Y5L5	0.93784
29590	P0C214	Q8TBZ0	0.27704
29591	P0C214	Q9Y6K9	0.95733
29592	P0C214	Q9BT49	0.54815
29593	P0C214	Q9BU89	0.36654
29594	P0C214	P31350	0.51661
29595	P0C214	Q8TD31	0.45369
29596	P0C214	Q8IV54	0.37495
29597	P0C214	Q5TYX0	0.402
29598	P0C214	Q17R26	0.35498
29599	P0C214	O94913	0.27156
29600	P0C214	P82912	0.50373
29601	P0C214	Q06546	1.0429
29602	P0C214	Q92901	0.86977
29603	P0C214	Q9Y5Q8	0.61983
29604	P0C214	P0C7V0	0.086276
29605	P0C214	Q8WUY3	0.26085
29606	P0C214	Q96P70	0.87382
29607	P0C214	Q5HYN5	0.22704
29608	P0C214	P62140	0.80138
29609	P0C214	O95456	0.44945
29610	P0C214	A6NK39	0.25676
29611	P0C214	Q13363	0.47716
29612	P0C214	P28062	0.40103
29613	P0C214	Q14008	0.77212
29614	P0C214	Q9UK55	0.85505
29615	P0C214	Q4VC44	0.16987
29616	P0C214	Q6ZU35	0.24937
29617	P0C214	Q5UIP0	0.8131
29618	P0C214	Q53QW1	0.24937
29619	P0C214	P05783	1.1509
29620	P0C214	Q9Y6J9	0.72238
29621	P0C214	P62249	0.85445
29622	P0C214	Q6RVD6	0.086276
29623	P0C214	Q9Y3D9	0.41291
29624	P0C214	O75461	0.11465
29625	P0C214	P13489	0.38968
29626	P0C214	Q8N6T0	0.010672
29627	P0C214	Q9P0L1	0.2988
29628	P0C214	Q9UKX2	0.89031
29629	P0C214	Q0VFX4	0.2635
29630	P0C214	Q86YD1	0.63582
29631	P0C214	Q9H0A8	0.48513
29632	P0C214	P35527	0.58756
29633	P0C214	A6NFL8	0.49852
29634	P0C214	Q8N8F4	0.14839
29635	P0C214	P17010	0.25573
29636	P0C214	P61956	0.65288
29637	P0C214	O43257	0.44843
29638	P0C214	O95633	0.27116
29639	P0C214	Q3LHN0	0.6322
29640	P0C214	O95478	0.40314

29641	P0C214	Q63HK3	0.34481
29642	P0C214	Q9Y2G9	0.62332
29643	P0C214	Q9ULD5	0.23038
29644	P0C214	P55347	0.3198
29645	P0C214	Q9Y376	0.20674
29646	P0C214	Q6P2E9	1.1785
29647	P0C214	Q99747	0.42413
29648	P0C214	A8K8V0	0.24946
29649	P0C214	F8WFD2	0.13188
29650	P0C214	P49368	0.26453
29651	P0C214	P23919	0.39245
29652	P0C214	Q15388	0.18724
29653	P0C214	Q6NXS1	0.68669
29654	P0C214	Q86WR0	0.037552
29655	P0C214	Q495Z4	0.27196
29656	P0C214	Q9UHF7	0.34568
29657	P0C214	P49901	0.086276
29658	P0C214	Q9H4I8	0.27316
29659	P0C214	P09914	0.47805
29660	P0C214	O75934	0.66077
29661	P0C214	Q8N9N2	0.31448
29662	P0C214	P00480	0.30825
29663	P0C214	O95198	0.32036
29664	P0C214	Q8IYT1	0.32585
29665	P0C214	Q969E8	1.1057
29666	P0C214	Q1MSJ5	0.92214
29667	P0C214	Q8WV44	0.36895
29668	P0C214	Q6AWC8	0.13764
29669	P0C214	Q9Y4A8	0.38157
29670	P0C214	O94986	1.1951
29671	P0C214	P62899	0.86977
29672	P0C214	O75764	0.11999
29673	P0C214	O95453	0.63718
29674	P0C214	Q17RA5	0.086276
29675	P0C214	Q8IV03	0.85366
29676	P0C214	Q9BV47	0.42756
29677	P0C214	Q15651	0.71738
29678	P0C214	O43830	0.22082
29679	P0C214	A5LHX3	0.44255
29680	P0C214	Q96S55	0.30457
29681	P0C214	Q7Z591	0.85227
29682	P0C214	Q9BSF8	0.35391
29683	P0C214	Q13547	0.77379
29684	P0C214	A8K830	0.086276
29685	P0C214	Q12988	0.39692
29686	P0C214	Q9BS34	0.20002
29687	P0C214	Q9Y2A4	0.4876
29688	P0C214	Q14865	0.25184
29689	P0C214	Q86Y46	0.34216
29690	P0C214	Q9BS18	0.35101
29691	P0C214	Q8TEA8	0.91447
29692	P0C214	Q8WWW0	0.24574
29693	P0C214	P60002	0.68831
29694	P0C214	Q8NFI3	0.10738
29695	P0C214	Q6PEW1	0.069529
29696	P0C214	A7E2U8	0.55347
29697	P0C214	P78337	0.32964
29698	P0C214	Q6NUI1	0.37122
29699	P0C214	Q96KD3	0.907
29700	P0C214	Q9HAN9	0.49203
29701	P0C214	Q7Z3Y8	0.5102
29702	P0C214	Q9HAH7	0.32226
29703	P0C214	Q12815	0.23856
29704	P0C214	Q9HCD5	1.0428
29705	P0C214	Q6IPW1	0.43494
29706	P0C214	Q8NEE0	0.086276
29707	P0C214	P0CI00	0.5624
29708	P0C214	P49959	0.1603
29709	P0C214	P35558	0.58613
29710	P0C214	P16157	0.23817
29711	P0C214	Q8NCR6	0.2723
29712	P0C214	P02538	0.57271
29713	P0C214	Q12824	0.90821
29714	P0C214	Q86VG3	0.22321
29715	P0C214	O00762	0.66402
29716	P0C214	Q66PJ3	0.57695

29717	P0C214	Q5SNX5	0.086276
29718	P0C214	P04264	0.20757
29719	P0C214	Q9UPX8	0.29151
29720	P0C214	P09913	0.62802
29721	P0C214	Q8TE04	0.60862
29722	P0C214	Q9H2L5	0.5203
29723	P0C214	Q14872	0.79
29724	P0C214	Q53EQ6	0.31376
29725	P0C214	P11177	0.19907
29726	P0C214	Q8IXK0	0.13893
29727	P0C214	Q6ZR54	0.086276
29728	P0C214	Q96DV4	0.22263
29729	P0C214	O00148	0.35223
29730	P0C214	Q9HAB8	0.44729
29731	P0C214	Q8N7Q3	0.37857
29732	P0C214	Q13490	0.51641
29733	P0C214	Q13772	0.36732
29734	P0C214	Q86SE9	0.97022
29735	P0C214	P31249	0.39784
29736	P0C214	Q6XCG6	0.086276
29737	P0C214	P38159	0.60754
29738	P0C214	Q9H816	0.42744
29739	P0C214	Q92624	0.67383
29740	P0C214	Q6ZRS4	0.25438
29741	P0C214	Q16775	0.44639
29742	P0C214	Q8IYN0	0.36263
29743	P0C214	Q5QP74	0.086276
29744	P0C214	P56556	0.41917
29745	P0C214	P49902	0.26606
29746	P0C214	Q14929	0.25251
29747	P0C214	Q9UKF6	0.69101
29748	P0C214	Q8NHY5	1.0288
29749	P0C214	Q96KR1	0.29373
29750	P0C214	Q96C34	0.64272
29751	P0C214	Q6IEG0	0.31423
29752	P0C214	Q8NF64	1.3134
29753	P0C214	P28838	0.34249
29754	P0C214	A8MVA2	0.43378
29755	P0C214	P17023	0.25564
29756	P0C214	Q9NRR8	0.49591
29757	P0C214	Q9BX82	0.48724
29758	P0C214	Q9BR77	0.27061
29759	P0C214	P12757	0.26208
29760	P0C214	O75909	0.95913
29761	P0C214	A8MV72	0.012015
29762	P0C214	Q53HL2	0.91805
29763	P0C214	C9JE40	0.8012
29764	P0C214	Q8NDD1	0.0062454
29765	P0C214	Q5SWL7	0.58313
29766	P0C214	Q00005	0.38259
29767	P0C214	Q6R2W3	0.38236
29768	P0C214	P62854	1.0548
29769	P0C214	Q9NWD9	0.41726
29770	P0C214	Q6PJ61	0.96206
29771	P0C214	P78318	0.88955
29772	P0C214	Q9Y2D9	0.56957
29773	P0C214	O00321	0.20656
29774	P0C214	Q6RW13	0.66383
29775	P0C214	P07864	1.0002
29776	P0C214	Q6VMQ6	0.94906
29777	P0C214	P56945	0.54264
29778	P0C214	Q9Y4C2	0.2489
29779	P0C214	Q9H201	0.20521
29780	P0C214	Q13505	0.78974
29781	P0C214	Q14591	0.22636
29782	P0C214	P30876	0.56203
29783	P0C214	Q16740	0.32252
29784	P0C214	Q96JN0	0.42574
29785	P0C214	O75351	0.2885
29786	P0C214	Q9Y5A6	0.65582
29787	P0C214	Q86W67	0.060555
29788	P0C214	P53992	0.96757
29789	P0C214	O43264	0.49313
29790	P0C214	Q8NI35	0.24774
29791	P0C214	Q5T9C2	0.24937
29792	P0C214	P28065	0.76068

29793	P0C214	O15194	0.074564
29794	P0C214	P39019	1.0557
29795	P0C214	O96033	0.20122
29796	P0C214	Q6ZN57	0.22955
29797	P0C214	P62263	0.72831
29798	P0C214	Q9HAV7	0.49939
29799	P0C214	Q8NDF8	0.29572
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29801	P0C214	Q8N5D0	0.56789
29802	P0C214	Q8IWP9	0.81347
29803	P0C214	P51814	0.20378
29804	P0C214	O75347	1.1235
29805	P0C214	P02042	0.3641
29806	P0C214	Q5T5D7	0.20437
29807	P0C214	O95684	0.85563
29808	P0C214	Q9H706	0.2675
29809	P0C214	Q08999	1.2333
29810	P0C214	Q86Y79	0.49873
29811	P0C214	Q9BRP8	1.0545
29812	P0C214	P60842	0.30637
29813	P0C214	Q8N7X2	0.086276
29814	P0C214	P19838	0.66343
29815	P0C214	Q05481	0.38021
29816	P0C214	Q6UUUV7	1.6697
29817	P0C214	P46087	0.75649
29818	P0C214	Q6ZP68	0.62598
29819	P0C214	P82675	0.52012
29820	P0C214	P14921	0.70892
29821	P0C214	P0C843	0.020304
29822	P0C214	Q15628	0.59177
29823	P0C214	A6NHJ4	0.49186
29824	P0C214	A1L190	0.69814
29825	P0C214	O94842	0.58949
29826	P0C214	Q96SQ5	0.30462
29827	P0C214	Q9H9E3	0.31755
29828	P0C214	P57721	0.70133
29829	P0C214	Q86XF0	0.1818
29830	P0C214	P49770	0.35447
29831	P0C214	Q9Y3F1	0.086276
29832	P0C214	Q9UI12	0.056885
29833	P0C214	Q8WUF5	0.74194
29834	P0C214	Q6ZU67	0.3852
29835	P0C214	Q92664	0.10599
29836	P0C214	Q96MT4	0.53987
29837	P0C214	Q0VG73	0.086276
29838	P0C214	Q6ZRH4	1.1176
29839	P0C214	Q15486	0.40142
29840	P0C214	Q9Y3C4	0.53551
29841	P0C214	Q9H079	0.33626
29842	P0C214	Q9NRI5	0.27882
29843	P0C214	Q9Y262	0.74286
29844	P0C214	P0CB33	0.44927
29845	P0C214	Q86XA9	0.26755
29846	P0C214	P41227	0.37556
29847	P0C214	Q9UL59	0.31247
29848	P0C214	Q8IVF1	0.91547
29849	P0C214	Q15013	0.76378
29850	P0C214	Q3SYF9	0.086276
29851	P0C214	Q8N402	0.074324
29852	P0C214	P15259	1.128
29853	P0C214	P30153	0.56538
29854	P0C214	P78371	0.76281
29855	P0C214	O75925	0.49633
29856	P0C214	Q7Z4H3	0.28632
29857	P0C214	P52744	0.30614
29858	P0C214	P41002	0.87346
29859	P0C214	Q9UJW0	0.4826
29860	P0C214	Q9BSB4	0.2423
29861	P0C214	Q8N584	0.55956
29862	P0C214	Q8WXE1	0.62091
29863	P0C214	Q96IV0	0.45469
29864	P0C214	Q9UPV9	0.77336
29865	P0C214	Q02241	0.61714
29866	P0C214	Q6ZNH5	0.28971
29867	P0C214	Q75NE6	1.0342
29868	P0C214	P13646	0.55013

29869	P0C214	Q9BRV8	0.57768
29870	P0C214	Q96JI7	0.64328
29871	P0C214	Q9Y6C7	0.086276
29872	P0C214	Q9NQ35	0.59129
29873	P0C214	Q15573	0.40209
29874	P0C214	Q6ZUG5	0.020415
29875	P0C214	Q9H9Y6	0.67702
29876	P0C214	Q96IZ0	0.64959
29877	P0C214	Q5SXJ2	1.2293
29878	P0C214	Q9Y2J4	0.34989
29879	P0C214	Q3KNT7	0.2308
29880	P0C214	Q14497	0.67251
29881	P0C214	Q6AI08	0.48229
29882	P0C214	Q7Z5D8	0.40657
29883	P0C214	Q9NXZ1	0.16769
29884	P0C214	Q52LR7	0.36197
29885	P0C214	Q9NXX6	0.3376
29886	P0C214	P0C6E6	0.13509
29887	P0C214	Q9H0U6	0.42926
29888	P0C214	P62993	0.25958
29889	P0C214	P02533	0.86902
29890	P0C214	Q5T5J6	0.81315
29891	P0C214	P59780	0.07925
29892	P0C214	Q6BDS2	0.20101
29893	P0C214	Q5JVG8	0.46355
29894	P0C214	Q96BY2	0.40263
29895	P0C214	Q8N699	0.1459
29896	P0C214	Q9UJJ7	0.43032
29897	P0C214	Q9BU68	0.20005
29898	P0C214	A6NJV1	0.17012
29899	P0C214	Q8IWI8	0.30132
29900	P0C214	Q8NC26	0.41325
29901	P0C214	P49789	0.69453
29902	P0C214	Q5SYE7	0.33359
29903	P0C214	Q9UJY5	0.39473
29904	P0C214	Q9P0V3	0.56008
29905	P0C214	Q0VF49	0.086276
29906	P0C214	Q5TG53	0.086276
29907	P0C214	Q9BY44	0.35213
29908	P0C214	Q96I59	0.73781
29909	P0C214	Q75586	0.62749
29910	P0C214	Q9NYK5	0.6721
29911	P0C214	Q7Z3Y7	0.38714
29912	P0C214	Q8N5A5	0.68783
29913	P0C214	Q14829	0.30127
29914	P0C214	P15336	0.78122
29915	P0C214	Q9UFW8	0.34832
29916	P0C214	Q96MC9	0.93983
29917	P0C214	Q969Q6	0.20171
29918	P0C214	Q969S8	0.72963
29919	P0C214	Q9BUI4	0.16748
29920	P0C214	Q9P086	0.98887
29921	P0C214	Q96M91	0.56431
29922	P0C214	Q75390	0.37778
29923	P0C214	P78543	0.55792
29924	P0C214	Q7Z6G3	0.37391
29925	P0C214	Q9Y473	0.3031
29926	P0C214	Q06547	0.9729
29927	P0C214	Q13568	1.0042
29928	P0C214	Q86Y56	0.016653
29929	P0C214	Q6V702	0.093126
29930	P0C214	Q9NRR5	0.82926
29931	P0C214	P52657	1.1526
29932	P0C214	Q92889	0.19799
29933	P0C214	Q96LW1	0.47199
29934	P0C214	P54922	0.46105
29935	P0C214	P13010	0.3707
29936	P0C214	Q8IZL2	0.81561
29937	P0C214	P06746	0.40937
29938	P0C214	P02489	0.26511
29939	P0C214	Q9BYQ5	0.43378
29940	P0C214	Q9NS23	0.23376
29941	P0C214	Q8IUC6	0.23121
29942	P0C214	Q9P016	0.13404
29943	P0C214	Q43913	0.37394
29944	P0C214	Q15051	0.46852

29945	P0C214	A6NP11	0.50756
29946	P0C214	Q5SVZ6	0.71154
29947	P0C214	C9J302	0.14467
29948	P0C214	Q16540	0.28646
29949	P0C214	Q99698	0.24147
29950	P0C214	Q9BUT9	0.93811
29951	P0C214	P54253	0.88897
29952	P0C214	Q6P1X6	0.47099
29953	P0C214	Q9NQ55	0.32844
29954	P0C214	P54098	0.437
29955	P0C214	Q15003	0.79975
29956	P0C214	Q9UH90	0.34482
29957	P0C214	Q9NQ89	0.22796
29958	P0C214	O14879	0.8085
29959	P0C214	Q969H6	0.89618
29960	P0C214	Q6ZS17	0.4149
29961	P0C214	I3L1I5	0.33801
29962	P0C214	Q9UHQ7	0.51847
29963	P0C214	Q9H9F9	1.1324
29964	P0C214	Q96I27	0.22501
29965	P0C214	Q7L0Y3	0.98738
29966	P0C214	Q9BRA2	0.58224
29967	P0C214	Q9U1L8	0.25884
29968	P0C214	Q96G75	0.079678
29969	P0C214	Q96S95	0.40139
29970	P0C214	Q9NP81	0.52517
29971	P0C214	Q8WXC7	0.42083
29972	P0C214	Q9BYP8	0.086276
29973	P0C214	Q6UX04	0.65778
29974	P0C214	Q16186	0.54822
29975	P0C214	P21675	0.38579
29976	P0C214	Q7L266	0.25538
29977	P0C214	O15535	0.21155
29978	P0C214	O00159	0.073424
29979	P0C214	P53803	0.78265
29980	P0C214	Q9BRK4	0.64956
29981	P0C214	Q9H8S9	0.54429
29982	P0C214	Q9H175	0.92208
29983	P0C214	Q9BXS1	0.41641
29984	P0C214	P84103	0.57542
29985	P0C214	Q15361	0.69493
29986	P0C214	A2BFH1	0.77514
29987	P0C214	Q96QR8	0.33811
29988	P0C214	Q8TD17	0.22145
29989	P0C214	Q6PG37	0.50814
29990	P0C214	P12081	0.02571
29991	P0C214	P46379	0.25015
29992	P0C214	O43159	0.85111
29993	P0C214	Q8N0Z6	0.22269
29994	P0C214	Q6L8H1	0.086276
29995	P0C214	Q5I0G3	0.40746
29996	P0C214	Q6PJG6	0.63046
29997	P0C214	O60716	0.51615
29998	P0C214	Q7Z699	0.2397
29999	P0C214	Q9NPI6	1.1088
30000	P0C214	Q99865	0.14921
30001	P0C214	Q96GK7	0.48674
30002	P0C214	Q96ED9	0.28421
30003	P0C214	Q9NVU0	0.41567
30004	P0C214	Q53TQ3	0.50282
30005	P0C214	P07476	0.21182
30006	P0C214	Q9BTX9	0.63452
30007	P0C214	Q86V81	0.91689
30008	P0C214	P43360	0.41816
30009	P0C214	A6NHQ4	0.1985
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30011	P0C214	P57772	0.70618
30012	P0C214	Q9UJ94	0.086276
30013	P0C214	Q2NL68	0.24937
30014	P0C214	Q6P161	0.12426
30015	P0C214	P22735	0.1359
30016	P0C214	Q9NTW7	0.46536
30017	P0C214	P02511	0.47097
30018	P0C214	Q8TF45	0.25925
30019	P0C214	Q04917	0.23645
30020	P0C214	O76015	0.5102



30021	P0C214	P0C7V9	0.37656
30022	P0C214	Q9BSI4	0.10549
30023	P0C214	O60759	0.32417
30024	P0C214	P48643	0.13685
30025	P0C214	Q9Y2K3	0.89031
30026	P0C214	O60826	0.7296
30027	P0C214	O94811	0.35929
30028	P0C214	Q9UBB4	1.0936
30029	P0C214	Q08379	0.22202
30030	P0C214	O43186	0.73974
30031	P0C214	P48552	0.62283
30032	P0C214	Q9BWC9	0.70657
30033	P0C214	A8MZF0	0.24937
30034	P0C214	B3EWG5	0.24937
30035	P0C214	Q9BSM1	0.99405
30036	P0C214	P86479	0.086276
30037	P0C214	Q96A44	0.46359
30038	P0C214	Q9NWS8	0.64205
30039	P0C214	Q8NG57	0.31331
30040	P0C214	P62380	0.11343
30041	P0C214	Q9Y676	0.61883
30042	P0C214	Q16656	0.3444
30043	P0C214	A8MTY7	0.43378
30044	P0C214	Q9UKJ5	0.27919
30045	P0C214	Q14164	0.26145
30046	P0C214	Q9C0F0	0.34036
30047	P0C214	P61758	0.61963
30048	P0C214	O75820	0.26437
30049	P0C214	Q9UPT5	0.49502
30050	P0C214	Q96F24	0.65072
30051	P0C214	Q9BPZ2	0.1626
30052	P0C214	Q6DKK2	0.85131
30053	P0C214	Q5VTL8	0.49481
30054	P0C214	Q14203	0.8963
30055	P0C214	P53396	0.24387
30056	P0C214	Q9BWM5	0.30522
30057	P0C214	Q8TAQ5	0.3804
30058	P0C214	Q9Y281	0.46018
30059	P0C214	Q92934	0.070743
30060	P0C214	P31314	0.44717
30061	P0C214	Q9UDW3	0.25982
30062	P0C214	P23381	0.50782
30063	P0C214	Q96N21	0.38524
30064	P0C214	Q9BYR7	0.92503
30065	P0C214	Q9UNX4	0.28317
30066	P0C214	Q86TS9	0.31815
30067	P0C214	P52742	0.34248
30068	P0C214	Q13625	0.38016
30069	P0C214	Q9Y5S9	0.85649
30070	P0C214	Q5TB30	0.33549
30071	P0C214	P07741	0.39871
30072	P0C214	Q6ZTU2	0.5536
30073	P0C214	Q9BZK3	0.53566
30074	P0C214	Q8NCR3	0.17761
30075	P0C214	O94888	0.33185
30076	P0C214	Q96DB2	0.23087
30077	P0C214	Q8IU53	0.16193
30078	P0C214	A6NFY7	0.5047
30079	P0C214	P61571	0.36767
30080	P0C214	Q96FJ8	0.086276
30081	P0C214	P01011	0.8218
30082	P0C214	O60543	0.36354
30083	P0C214	P51003	0.22844
30084	P0C214	Q93015	0.43723
30085	P0C214	P27348	0.28134
30086	P0C214	Q7Z4H7	0.73887
30087	P0C214	Q8NET4	0.50063
30088	P0C214	Q8TC56	0.907
30089	P0C214	Q14645	0.14089
30090	P0C214	G3V211	0.5062
30091	P0C214	P62273	0.92915
30092	P0C214	P81274	0.51145
30093	P0C214	Q13769	0.53429
30094	P0C214	Q14587	0.24611
30095	P0C214	Q8WTW4	0.23352
30096	P0C214	Q5TCQ9	0.53213

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30098	POC214	Q12873	0.56405
30099	POC214	P15407	0.62436
30100	POC214	O95295	0.47055
30101	POC214	Q9NPC7	0.20138
30102	POC214	Q9NP92	0.8541
30103	POC214	A4D0Y5	0.086276
30104	POC214	Q86U90	0.61031
30105	POC214	P51825	0.92592
30106	POC214	Q9BYR5	0.43378
30107	POC214	P52655	1.1378
30108	POC214	A6NCD4	0.1624
30109	POC214	Q5VWN6	0.13677
30110	POC214	P06748	0.41808
30111	POC214	O60508	0.29893
30112	POC214	Q9P209	0.77758
30113	POC214	Q96GT9	0.32396
30114	POC214	O95628	0.91542
30115	POC214	Q96LC9	0.58124
30116	POC214	Q6ZUT1	0.086276
30117	POC214	Q13829	0.71584
30118	POC214	Q8WYN3	0.48016
30119	POC214	Q9Y3C0	0.2517
30120	POC214	Q6K0P9	0.18039
30121	POC214	P35269	1.0799
30122	POC214	Q15554	0.41032
30123	POC214	P50750	0.312
30124	POC214	Q96LT6	0.17118
30125	POC214	Q86UE3	0.37033
30126	POC214	P60371	0.43378
30127	POC214	Q659A1	0.079957
30128	POC214	P26599	0.31298
30129	POC214	Q8NHQ1	1.3814
30130	POC214	Q9UIH9	0.31943
30131	POC214	P58505	0.17054
30132	POC214	P23396	0.92076
30133	POC214	P27815	0.43999
30134	POC214	Q92900	0.62181
30135	POC214	Q6ZQR2	0.9143
30136	POC214	O00458	0.7619
30137	POC214	Q9Y255	0.09056
30138	POC214	Q9H1E3	0.53076
30139	POC214	Q7L590	0.9859
30140	POC214	P18077	0.75023
30141	POC214	Q9UI25	0.086276
30142	POC214	Q9HD15	0.45833
30143	POC214	Q8TBC5	0.067802
30144	POC214	P19484	0.44689
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30148	POC214	Q00987	0.31125
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30151	POC214	O95567	0.086276
30152	POC214	Q96FX2	0.86903
30153	POC214	Q9GZU2	0.45087
30154	POC214	Q9GZV4	0.71056
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30156	POC214	Q8NDP4	0.30705
30157	POC214	O00267	0.97958
30158	POC214	Q3LI54	0.086276
30159	POC214	Q96CX3	0.32018
30160	POC214	P33316	0.702
30161	POC214	Q96NJ3	0.27255
30162	POC214	Q9UHT9	0.086276
30163	POC214	Q8N693	0.34369
30164	POC214	Q16222	0.36887
30165	POC214	P52738	0.26578
30166	POC214	P50613	0.21354
30167	POC214	Q9Y4E1	0.35898
30168	POC214	P43487	0.36849
30169	POC214	Q92841	0.6965
30170	POC214	P05388	1.5805
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30172	POC214	Q6ZUT4	0.26672

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30176	P0C214	A8MSI8	1.0139
30177	P0C214	P60410	0.6322
30178	P0C214	Q6L8G4	0.086276
30179	P0C214	Q3T8J9	0.57316
30180	P0C214	Q9NTK1	0.54594
30181	P0C214	Q6NXR4	0.04166
30182	P0C214	P55212	0.48642
30183	P0C214	Q8TEM1	0.17016
30184	P0C214	Q9H3M7	0.80797
30185	P0C214	Q13309	0.70546
30186	P0C214	O75190	0.86176
30187	P0C214	Q8TAD8	1.2548
30188	P0C214	Q9H814	0.47665
30189	P0C214	Q7KZ85	0.43529
30190	P0C214	Q8TC05	0.46462
30191	P0C214	Q9BU61	0.69929
30192	P0C214	Q13112	1.4717
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30194	P0C214	Q9H171	0.2696
30195	P0C214	P40121	0.39842
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30199	P0C214	A6NHP3	0.28575
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30201	P0C214	O15372	0.79591
30202	P0C214	Q9Y2L1	0.66363
30203	P0C214	P33076	0.4123
30204	P0C214	Q5VT03	0.39603
30205	P0C214	Q9Y2X0	0.48556
30206	P0C214	Q09666	0.65215
30207	P0C214	Q0VFX6	0.24937
30208	P0C214	Q9H6J7	0.16769
30209	P0C214	Q96RK0	0.90001
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30211	P0C214	Q9H246	0.2193
30212	P0C214	P29084	1.1704
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30217	P0C214	Q8N8H1	0.46577
30218	P0C214	P49590	0.055572
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30220	P0C214	P23025	0.19847
30221	P0C214	Q2NL82	0.46222
30222	P0C214	A6NCI8	0.80356
30223	P0C214	Q7Z6R9	0.24424
30224	P0C214	Q9BW71	0.57163
30225	P0C214	Q9NR56	0.41397
30226	P0C214	Q96QK1	0.6366
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30229	P0C214	P62847	0.7392
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30235	P0C214	Q8TAC9	0.47471
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30239	P0C214	Q8WTT2	0.34352
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30244	P0C214	Q6ZW54	0.96495
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30252	P0C214	P51959	0.45004
30253	P0C214	Q7RTU4	0.25688
30254	P0C214	Q9Y2S6	0.086276
30255	P0C214	P15884	0.48509
30256	P0C214	O76021	0.53502
30257	P0C214	Q6ZMV5	0.38023
30258	P0C214	Q13158	0.44609
30259	P0C214	Q6ZRP5	0.086276
30260	P0C214	Q5SW79	0.67949
30261	P0C214	Q9BYA6	0.086276
30262	P0C214	Q96EI5	0.75796
30263	P0C214	Q8NHW3	0.15678
30264	P0C214	Q7Z794	0.54908
30265	P0C214	Q9H0S4	0.16164
30266	P0C214	Q9BQ61	0.24937
30267	P0C214	Q96MF6	0.45028
30268	P0C214	P36952	0.78972
30269	P0C214	Q5JS54	0.20558
30270	P0C214	Q9NS56	0.27185
30271	P0C214	Q75478	0.26803
30272	P0C214	Q8TD23	0.5619
30273	P0C214	Q538Z0	0.086276
30274	P0C214	O14818	0.76226
30275	P0C214	O60907	0.72309
30276	P0C214	O14579	0.57465
30277	P0C214	Q9NV39	0.25186
30278	P0C214	Q9UJP4	0.21649
30279	P0C214	B1AL46	0.39603
30280	P0C214	Q9P2F9	0.22643
30281	P0C214	Q96M85	0.086276
30282	P0C214	O15350	0.27346
30283	P0C214	Q8TBN0	0.21579
30284	P0C214	P13349	0.23151
30285	P0C214	P40855	0.33636
30286	P0C214	Q9C035	0.63635
30287	P0C214	Q9NP79	0.22499
30288	P0C214	Q9NX20	0.44456
30289	P0C214	Q8N587	0.44914
30290	P0C214	P15924	0.23748
30291	P0C214	Q53FD0	0.50333
30292	P0C214	A6NGN4	0.28595
30293	P0C214	P14678	0.88416
30294	P0C214	Q99856	0.61144
30295	P0C214	Q9NY27	0.81775
30296	P0C214	Q14764	0.9427
30297	P0C214	Q8TAU3	0.30462
30298	P0C214	Q96EA4	0.66963
30299	P0C214	Q8WWM1	0.43185
30300	P0C214	Q9BUA3	0.028204
30301	P0C214	P86496	0.086276
30302	P0C214	Q9C0C2	0.24762
30303	P0C214	O00167	0.66455
30304	P0C214	Q8N2W9	1.0035
30305	P0C214	Q14119	0.19264
30306	P0C214	Q9BYR8	0.6322
30307	P0C214	Q14CW9	0.83329
30308	P0C214	Q03112	0.17412
30309	P0C214	Q9UJN7	0.25959
30310	P0C214	Q86UB2	0.46036
30311	P0C214	Q9Y2D8	0.53321
30312	P0C214	Q9BTW9	0.26811
30313	P0C214	P17019	0.49815
30314	P0C214	P60412	0.43378
30315	P0C214	Q9BWH6	0.58277
30316	P0C214	Q8WWX9	0.51521
30317	P0C214	Q13015	0.47824
30318	P0C214	Q6PH85	0.0027648
30319	P0C214	Q9BQ87	0.39389
30320	P0C214	Q8N0Y2	0.21909
30321	P0C214	Q9P1Y5	0.61168
30322	P0C214	Q9Y285	0.66461
30323	P0C214	Q8IVP9	0.17344
30324	P0C214	Q9UC06	0.2912

30325	P0C214	O60927	0.74413
30326	P0C214	P62829	1.3176
30327	P0C214	P83916	0.60402
30328	P0C214	Q6ZV60	0.086276
30329	P0C214	C9JN71	0.33203
30330	P0C214	O75157	0.37294
30331	P0C214	Q504Q3	0.38884
30332	P0C214	O75530	0.57202
30333	P0C214	P61580	0.37639
30334	P0C214	Q96BW1	0.19776
30335	P0C214	Q02080	0.35413
30336	P0C214	A6NGH7	0.15258
30337	P0C214	Q13023	0.54093
30338	P0C214	O75807	0.51146
30339	P0C214	O75496	0.90344
30340	P0C214	Q9H444	0.67645
30341	P0C214	Q9Y2V2	0.46934
30342	P0C214	Q53HC0	0.71663
30343	P0C214	P41252	0.90389
30344	P0C214	Q96SN8	0.42625
30345	P0C214	P07954	0.27316
30346	P0C214	Q15029	0.38426
30347	P0C214	P26373	1.2111
30348	P0C214	Q8N1B3	0.52979
30349	P0C214	Q5T230	1.448
30350	P0C214	Q14765	0.29286
30351	P0C214	Q9BZE3	0.32752
30352	P0C214	Q9C086	1.4268
30353	P0C214	P0CG30	0.29858
30354	P0C214	O60220	0.49725
30355	P0C214	Q9BQ66	0.43378
30356	P0C214	Q9HB09	0.89831
30357	P0C214	Q495M9	0.33188
30358	P0C214	O00541	0.35725
30359	P0C214	Q8N5F7	1.245
30360	P0C214	Q96SD1	0.11392
30361	P0C214	Q86WW8	0.37663
30362	P0C214	Q9BYQ2	0.43378
30363	P0C214	Q68DY1	0.49815
30364	P0C214	Q495Y8	0.28575
30365	P0C214	Q9UDY8	0.33479
30366	P0C214	Q8NDY6	0.39843
30367	P0C214	Q4LEZ3	0.92572
30368	P0C214	Q6ZSA8	0.086276
30369	P0C214	Q86UW6	0.21915
30370	P0C214	Q8TF09	0.45551
30371	P0C214	Q5TAA0	0.021619
30372	P0C214	Q16621	0.43533
30373	P0C214	Q96R06	0.81127
30374	P0C214	Q5MCW4	0.25059
30375	P0C214	Q8N183	0.29742
30376	P0C214	P62306	0.41319
30377	P0C214	Q9Y2T2	0.40315
30378	P0C214	Q8NA72	0.11376
30379	P0C214	Q13867	0.43888
30380	P0C214	P01100	0.49211
30381	P0C214	Q7Z4G1	1.2595
30382	P0C214	Q9H227	0.23355
30383	P0C214	Q969L4	0.63275
30384	P0C214	Q16384	0.2686
30385	P0C214	Q14152	1.2231
30386	P0C214	Q15599	0.31638
30387	P0C214	Q5W111	0.1545
30388	P0C214	Q96GV9	0.29058
30389	P0C214	Q9HCM7	0.84135
30390	P0C214	Q9P2N5	0.19497
30391	P0C214	Q9BV57	0.82436
30392	P0C214	Q9BXS6	0.537
30393	P0C214	Q99676	0.36207
30394	P0C214	P11844	0.65733
30395	P0C214	Q9HCI6	0.47696
30396	P0C214	Q6NT89	0.59295
30397	P0C214	Q9NPA3	1.2057
30398	P0C214	Q3LI83	0.51364
30399	P0C214	Q8NCK3	0.33303
30400	P0C214	O43261	0.2675

30401	P0C214	Q86TS7	0.086276
30402	P0C214	A6QL64	0.2654
30403	P0C214	Q9NR55	0.2181
30404	P0C214	Q14145	1.267
30405	P0C214	Q96D46	0.7903
30406	P0C214	Q6PF06	0.92931
30407	P0C214	P41236	0.29577
30408	P0C214	Q93074	0.45437
30409	P0C214	O75698	0.086276
30410	P0C214	A6NJ78	0.37656
30411	P0C214	P0CW01	0.69286
30412	P0C214	O60829	0.26319
30413	P0C214	P11055	0.85592
30414	P0C214	P78406	0.53001
30415	P0C214	O95299	0.04047
30416	P0C214	Q96BP2	1.2308
30417	P0C214	Q92560	0.17908
30418	P0C214	A6NH11	0.27027
30419	P0C214	P52435	0.50364
30420	P0C214	A4QMS7	0.15979
30421	P0C214	Q86WI3	0.60916
30422	P0C214	P05204	0.28171
30423	P0C214	Q9BSQ5	0.1795
30424	P0C214	Q5VTE6	0.076574
30425	P0C214	Q8IXQ3	0.48672
30426	P0C214	P55265	0.40908
30427	P0C214	P17568	0.077953
30428	P0C214	O95678	0.43311
30429	P0C214	O15266	0.34608
30430	P0C214	P57740	0.8195
30431	P0C214	P17275	0.82061
30432	P0C214	Q5J TZ9	0.17573
30433	P0C214	Q8N823	0.3804
30434	P0C214	Q9NVM4	0.2947
30435	P0C214	Q92750	0.56338
30436	P0C214	Q8N5L8	1.134
30437	P0C214	Q96EU6	0.3397
30438	P0C214	Q9UNY5	0.42258
30439	P0C214	Q6ZRH9	0.086276
30440	P0C214	P62166	0.27277
30441	P0C214	Q8N814	0.72928
30442	P0C214	O00189	0.37202
30443	P0C214	Q5EE01	0.53507
30444	P0C214	Q8NEP9	0.44452
30445	P0C214	Q8NA77	0.71592
30446	P0C214	Q13367	0.37437
30447	P0C214	Q9HD42	0.82012
30448	P0C214	Q9Y4P1	0.24814
30449	P0C214	Q08AN1	0.3804
30450	P0C214	Q8N7Y1	0.086276
30451	P0C214	P11802	0.66449
30452	P0C214	Q9Y6K5	0.27557
30453	P0C214	P17022	0.17565
30454	P0C214	Q7Z417	0.74845
30455	P0C214	P53370	0.56787
30456	P0C214	Q12800	0.28267
30457	P0C214	A8K8P3	0.78551
30458	P0C214	Q9HBD4	0.5105
30459	P0C214	Q9H7H0	0.70491
30460	P0C214	A6NHQ2	0.21519
30461	P0C214	P63313	0.72737
30462	P0C214	P27635	0.87273
30463	P0C214	Q69YN4	0.19759
30464	P0C214	Q9ULK2	0.74718
30465	P0C214	Q6NT04	0.32238
30466	P0C214	Q5VTH2	0.71913
30467	P0C214	Q99567	0.87474
30468	P0C214	O15056	0.24072
30469	P0C214	Q9Y305	0.71928
30470	P0C214	A6NCN8	0.24937
30471	P0C214	O75362	0.64081
30472	P0C214	O14929	0.72161
30473	P0C214	P57678	1.0501
30474	P0C214	Q3BBV2	0.51029
30475	P0C214	Q86WS4	0.086276
30476	P0C214	Q13111	1.1121

30477	P0C214	P32519	1.2372
30478	P0C214	Q6ZRH3	0.02249
30479	P0C214	Q9NPJ4	1.619
30480	P0C214	P08133	0.62935
30481	P0C214	Q5T7N7	0.086276
30482	P0C214	Q5VZQ5	0.34703
30483	P0C214	P31150	0.19906
30484	P0C214	Q9C099	0.84614
30485	P0C214	Q9NUA8	0.24858
30486	P0C214	P61572	0.39132
30487	P0C214	Q5SRH9	0.64735
30488	P0C214	Q9Y6H1	0.75974
30489	P0C214	Q9H6B1	0.43512
30490	P0C214	I3L0S3	0.10358
30491	P0C214	P53618	0.71295
30492	P0C214	Q14513	0.37354
30493	P0C214	P34932	0.4293
30494	P0C214	Q8TC20	0.0047744
30495	P0C214	Q9BQC3	1.0084
30496	P0C214	O60224	0.17331
30497	P0C214	O43242	0.37699
30498	P0C214	Q9UPP5	0.17012
30499	P0C214	Q13526	0.53532
30500	P0C214	Q9Y3B2	0.98343
30501	P0C214	Q8N9P6	0.086276
30502	P0C214	Q9BQG0	0.61948
30503	P0C214	Q6ZT83	0.14432
30504	P0C214	Q53HV7	0.58539
30505	P0C214	Q6P4D5	0.41177
30506	P0C214	P47813	1.1223
30507	P0C214	Q8WYP5	0.61323
30508	P0C214	P46778	0.86977
30509	P0C214	Q9P0M2	0.21728
30510	P0C214	Q8N5J2	1.1916
30511	P0C214	O94921	0.17504
30512	P0C214	P50748	0.72842
30513	P0C214	A8MVW5	0.49923
30514	P0C214	P30405	0.77514
30515	P0C214	Q99743	0.51557
30516	P0C214	Q15233	0.60956
30517	P0C214	P23769	0.29993
30518	P0C214	Q9BRX2	0.31856
30519	P0C214	P41219	0.37466
30520	P0C214	Q5T6S3	0.25884
30521	P0C214	Q92793	0.43346
30522	P0C214	Q8N9E0	0.24937
30523	P0C214	Q16587	0.23738
30524	P0C214	P50548	0.12318
30525	P0C214	O60888	0.27846
30526	P0C214	Q5TH74	0.24104
30527	P0C214	Q96FA3	0.64025
30528	P0C214	Q9Y6N9	0.36196
30529	P0C214	P51580	0.16583
30530	P0C214	Q8WYR4	0.41814
30531	P0C214	Q9BTE6	0.61173
30532	P0C214	Q9UJX5	0.85073
30533	P0C214	Q8NA47	0.24937
30534	P0C214	Q7Z7K2	0.20212
30535	P0C214	Q8TBZ9	1.151
30536	P0C214	P61604	0.94241
30537	P0C214	Q5BKY9	0.24937
30538	P0C214	Q99457	0.98315
30539	P0C214	Q9Y5J3	0.25721
30540	P0C214	Q96HG1	0.086276
30541	P0C214	Q504T8	0.16769
30542	P0C214	Q8N5X7	0.15496
30543	P0C214	Q9UBY9	1.0572
30544	P0C214	Q969W8	0.42978
30545	P0C214	Q15637	0.35465
30546	P0C214	Q96NY9	0.64461
30547	P0C214	Q9BXU2	0.10625
30548	P0C214	Q00994	0.90054
30549	P0C214	Q8NHV4	0.66105
30550	P0C214	Q96KS0	0.22798
30551	P0C214	Q86TX2	0.28311
30552	P0C214	P35711	0.82798

30553	P0C214	Q8IZL8	0.77311
30554	P0C214	Q9UIF8	0.75803
30555	P0C214	O43865	0.19587
30556	P0C214	P19419	1.1966
30557	P0C214	Q9HBH7	0.49377
30558	P0C214	Q6ZTI6	0.59314
30559	P0C214	P56693	0.55492
30560	P0C214	Q6ZP82	0.2675
30561	P0C214	Q92797	0.64217
30562	P0C214	Q5VYV7	0.2675
30563	P0C214	Q86V20	0.7813
30564	P0C214	P67809	0.54355
30565	P0C214	Q8N7M0	0.28482
30566	P0C214	Q499Z4	0.36523
30567	P0C214	Q9NNW7	0.38708
30568	P0C214	Q6P5R6	0.46387
30569	P0C214	P61024	0.57531
30570	P0C214	A6NMX2	0.086411
30571	P0C214	Q5T200	0.86928
30572	P0C214	Q9H1L0	0.25298
30573	P0C214	Q8IV36	0.42159
30574	P0C214	Q8IYS8	0.076506
30575	P0C214	Q7Z7A1	1.0741
30576	P0C214	Q99613	0.8284
30577	P0C214	Q9UJ98	0.43733
30578	P0C214	P15408	0.48161
30579	P0C214	Q6PGP7	0.69929
30580	P0C214	Q9BUE0	0.98887
30581	P0C214	Q16352	0.50462
30582	P0C214	P61586	0.37861
30583	P0C214	Q9BWN1	0.24937
30584	P0C214	Q96GE5	0.46805
30585	P0C214	Q9GZL7	0.68654
30586	P0C214	Q9NVR5	0.60202
30587	P0C214	Q6P1M3	0.74349
30588	P0C214	Q4U2R6	0.84108
30589	P0C214	O15446	0.24028
30590	P0C214	Q9Y295	0.29929
30591	P0C214	P53999	1.2011
30592	P0C214	Q8N9N5	0.2548
30593	P0C214	P46937	0.81079
30594	P0C214	P31483	0.28798
30595	P0C214	P40261	0.18224
30596	P0C214	A1L188	0.37228
30597	P0C214	Q86WX3	1.0691
30598	P0C214	Q6PI26	1.1996
30599	P0C214	Q9NX70	1.0224
30600	P0C214	O95625	0.18766
30601	P0C214	P79522	0.58083
30602	P0C214	Q13033	0.53625
30603	P0C214	P61201	0.47496
30604	P0C214	Q9NWX8	0.55017
30605	P0C214	Q86XU0	0.30697
30606	P0C214	Q9BW85	0.86463
30607	P0C214	O60684	0.25408
30608	P0C214	A6NL46	0.65621
30609	P0C214	P61457	1.1839
30610	P0C214	Q05048	0.71345
30611	P0C214	Q7Z4T9	0.69752
30612	P0C214	P42695	0.2446
30613	P0C214	Q9H2J4	0.57428
30614	P0C214	Q8NFX8	0.35715
30615	P0C214	Q9BSH3	0.27367
30616	P0C214	P35606	0.32691
30617	P0C214	Q9NXF7	0.25402
30618	P0C214	Q5JNZ5	0.63692
30619	P0C214	Q9HBX3	0.086276
30620	P0C214	Q9Y375	0.61004
30621	P0C214	Q8N8G2	0.83156
30622	P0C214	Q9BXW4	0.11332
30623	P0C214	Q96QT6	0.84859
30624	P0C214	Q99708	0.55872
30625	P0C214	Q7Z5L9	0.9375
30626	P0C214	Q9UND3	0.15833
30627	P0C214	Q8TF20	0.37211
30628	P0C214	Q5VYK3	0.4



30629	P0C214	Q9UBZ9	0.40656
30630	P0C214	P63208	0.71247
30631	P0C214	A5PLN9	0.14824
30632	P0C214	O43167	0.56957
30633	P0C214	Q96GU1	0.11884
30634	P0C214	P0CW21	0.086276
30635	P0C214	Q9NSB2	0.47593
30636	P0C214	Q6P2Q9	0.54168
30637	P0C214	Q8NE22	0.64942
30638	P0C214	P04792	0.5119
30639	P0C214	Q6P9A1	0.41035
30640	P0C214	Q16082	1.0784
30641	P0C214	Q86Y37	0.13425
30642	P0C214	Q8WU49	0.086276
30643	P0C214	P81877	0.34419
30644	P0C214	P84022	0.46043
30645	P0C214	P48594	0.92397
30646	P0C214	Q9H1A7	0.13654
30647	P0C214	Q9NWU5	0.54771
30648	P0C214	Q8WW35	0.2675
30649	P0C214	Q86VW0	0.18057
30650	P0C214	Q4G0A6	1.0377
30651	P0C214	Q969H9	0.086276
30652	P0C214	P14649	0.29298
30653	P0C214	O00186	0.777
30654	P0C214	O75437	0.4434
30655	P0C214	Q9UMS6	0.5793
30656	P0C214	P23246	0.75015
30657	P0C214	Q6ZRS2	0.36071
30658	P0C214	Q6ZYL4	0.77282
30659	P0C214	Q12906	1.2124
30660	P0C214	Q9BRX8	0.10261
30661	P0C214	Q9ULP0	0.1228
30662	P0C214	Q6PK81	0.26609
30663	P0C214	Q9H4G8	0.44813
30664	P0C214	Q6P1L6	0.24918
30665	P0C214	Q9Y512	0.069639
30666	P0C214	P48444	0.3669
30667	P0C214	O00567	0.83219
30668	P0C214	Q15172	0.21147
30669	P0C214	Q9UL58	0.60167
30670	P0C214	Q5VV17	0.17374
30671	P0C214	Q9BVW5	0.91895
30672	P0C214	Q9BYV8	0.55734
30673	P0C214	Q8N9K7	0.086276
30674	P0C214	Q8WW24	0.39532
30675	P0C214	Q9BRQ3	0.65924
30676	P0C214	O14602	0.43736
30677	P0C214	P29401	0.16655
30678	P0C214	P54725	0.58072
30679	P0C214	Q9BYQ8	0.43378
30680	P0C214	Q5TBC7	0.26771
30681	P0C214	Q9BQD3	0.31888
30682	P0C214	Q5SQS8	0.070215
30683	P0C214	Q8IXM3	0.56202
30684	P0C214	Q9UKN8	0.50781
30685	P0C214	Q5T749	0.37631
30686	P0C214	P17096	0.53242
30687	P0C214	Q5U623	0.85059
30688	P0C214	Q86WB0	1.1605
30689	P0C214	Q9BWJ5	0.54133
30690	P0C214	Q96EH5	0.60578
30691	P0C214	Q8N6F8	0.0042177
30692	P0C214	P29728	0.084579
30693	P0C214	Q8IWZ8	0.26346
30694	P0C214	Q8NFG4	0.68203
30695	P0C214	P34897	0.22569
30696	P0C214	Q6IQ49	0.39346
30697	P0C214	O43156	0.40847
30698	P0C214	P61962	0.66714
30699	P0C214	O95125	0.29867
30700	P0C214	Q14689	0.2927
30701	P0C214	P61573	0.39132
30702	P0C214	Q9NWA0	1.2889
30703	P0C214	Q9NZI5	0.44546
30704	P0C214	Q96DP5	0.40853

30705	P0C214	Q5TYW1	0.24611
30706	P0C214	Q9H1D9	0.48407
30707	P0C214	Q9NTX7	0.64211
30708	P0C214	Q3SY84	0.44022
30709	P0C214	P15172	0.27688
30710	P0C214	Q6PII3	0.060194
30711	P0C214	Q15428	0.25165
30712	P0C214	Q9BSU3	0.46316
30713	P0C214	Q6PF04	0.28202
30714	P0C214	P78345	0.85867
30715	P0C214	Q76L83	0.47663
30716	P0C214	Q9BYH8	0.29156
30717	P0C214	Q86WZ6	0.26904
30718	P0C214	Q15397	0.15439
30719	P0C214	Q5PR19	0.23594
30720	P0C214	P17947	0.61473
30721	P0C214	P46527	0.34799
30722	P0C214	Q6PII5	0.44639
30723	P0C214	Q969T9	0.91873
30724	P0C214	Q9GZR5	0.68356
30725	P0C214	Q9Y244	0.42707
30726	P0C214	Q9P2R6	0.94251
30727	P0C214	Q9H808	0.49536
30728	P0C214	Q9H3H9	0.90731
30729	P0C214	Q6NZ36	0.17985
30730	P0C214	Q9BX66	0.31092
30731	P0C214	P56524	0.28762
30732	P0C214	Q96PU4	0.36674
30733	P0C214	Q16533	0.51016
30734	P0C214	O95229	0.77729
30735	P0C214	Q96F07	0.3845
30736	P0C214	Q9GZV5	1.066
30737	P0C214	Q9UK11	0.3951
30738	P0C214	Q7Z7C8	0.45767
30739	P0C214	Q8N1F7	0.57626
30740	P0C214	Q6W2J9	0.36427
30741	P0C214	Q86YE8	0.3804
30742	P0C214	P55957	0.42812
30743	P0C214	Q96MW1	0.24937
30744	P0C214	Q99623	1.0844
30745	P0C214	P23258	0.31254
30746	P0C214	Q9NR11	0.22197
30747	P0C214	Q96CS4	0.24682
30748	P0C214	Q8NBR6	1.4967
30749	P0C214	Q9NUS5	0.45967
30750	P0C214	Q9Y6Y1	0.43561
30751	P0C214	Q9BW61	0.60035
30752	P0C214	Q9Y6K1	0.30976
30753	P0C214	Q5TBB1	0.85488
30754	P0C214	Q14709	0.3804
30755	P0C214	P17029	0.43208
30756	P0C214	A4D1U4	0.10335
30757	P0C214	Q14907	0.37183
30758	P0C214	Q9H501	1.1533
30759	P0C214	O00425	0.58953
30760	P0C214	O75884	1.0884
30761	P0C214	Q6NT76	0.36403
30762	P0C214	Q8IYX3	0.64779
30763	P0C214	Q99576	0.37515
30764	P0C214	H3BQW9	0.076415
30765	P0C214	Q5T681	0.53221
30766	P0C214	O75821	0.76555
30767	P0C214	Q3LI66	0.086276
30768	P0C214	Q9H6V9	0.14201
30769	P0C214	O75694	0.59078
30770	P0C214	P42704	0.90103
30771	P0C214	P60660	0.37617
30772	P0C214	Q14678	0.46777
30773	P0C214	P12277	0.09917
30774	P0C214	Q5HYW2	0.38939
30775	P0C214	Q6ICG8	1.354
30776	P0C214	Q5JXB2	0.68236
30777	P0C214	P17544	0.94644
30778	P0C214	P41218	0.54737
30779	P0C214	Q12986	0.13244
30780	P0C214	O43715	0.63264

30781	P0C214	Q5T6C5	0.74718
30782	P0C214	Q96NA2	1.0494
30783	P0C214	P11831	0.50308
30784	P0C214	Q9Y2Y9	0.68564
30785	P0C214	Q96BD5	0.32391
30786	P0C214	Q00403	0.99261
30787	P0C214	Q15906	0.75224
30788	P0C214	Q96AQ9	0.32933
30789	P0C214	Q96SR6	0.3048
30790	P0C214	Q5JUW0	0.43784
30791	P0C214	Q8NI29	0.35888
30792	P0C214	Q8TCI5	0.52975
30793	P0C214	Q8NAP3	0.30406
30794	P0C214	Q9UJM3	0.37353
30795	P0C214	Q9HC77	0.72932
30796	P0C214	Q9UK13	0.48849
30797	P0C214	Q96HR3	0.77393
30798	P0C214	Q9UPU9	0.3579
30799	P0C214	Q96ST2	0.12533
30800	P0C214	P61513	0.85748
30801	P0C214	Q641Q2	0.71414
30802	P0C214	Q9UL40	0.60161
30803	P0C214	Q5JTW2	0.31925
30804	P0C214	Q9H0F6	0.1637
30805	P0C214	A8MXT2	0.048798
30806	P0C214	Q99417	1.4991
30807	P0C214	P78344	0.54113
30808	P0C214	A1L3Z2	0.092734
30809	P0C214	Q13515	0.4805
30810	P0C214	P11172	0.49565
30811	P0C214	Q58FG1	0.85371
30812	P0C214	O60318	0.68612
30813	P0C214	Q9UNN4	0.33106
30814	P0C214	Q9H095	0.18967
30815	P0C214	Q5H9F3	0.61791
30816	P0C214	Q9BXM0	0.64324
30817	P0C214	Q99990	0.52075
30818	P0C214	Q53EL6	1.0884
30819	P0C214	P17026	0.26221
30820	P0C214	Q96MN9	0.5523
30821	P0C214	Q8IUD6	0.49152
30822	P0C214	O14530	0.30198
30823	P0C214	Q8NCF5	0.45436
30824	P0C214	Q6ICC9	0.18129
30825	P0C214	Q3LI70	0.086276
30826	P0C214	Q96SK3	0.36207
30827	P0C214	Q6TFL3	0.26817
30828	P0C214	Q04206	0.59287
30829	P0C214	Q8TAB5	0.24937
30830	P0C214	Q86VX9	0.94747
30831	P0C214	Q9UNQ2	0.45694
30832	P0C214	Q96AH0	0.60677
30833	P0C214	Q9NPC6	0.67933
30834	P0C214	Q6PK04	0.92744
30835	P0C214	Q9NW07	0.29044
30836	P0C214	O60516	0.20994
30837	P0C214	O14639	0.46609
30838	P0C214	Q9NRI7	0.086276
30839	P0C214	Q9NVC6	0.54759
30840	P0C214	Q8N1E6	0.35254
30841	P0C214	Q9Y315	0.36919
30842	P0C214	C9JFL3	0.086276
30843	P0C214	Q7Z2W9	0.11747
30844	P0C214	Q9BVI4	0.36603
30845	P0C214	P29692	0.45242
30846	P0C214	Q16520	0.8217
30847	P0C214	O95931	0.70796
30848	P0C214	Q9UNL4	0.24408
30849	P0C214	Q9UHU1	0.086276
30850	P0C214	Q5HY98	0.43572
30851	P0C214	Q3L8U1	0.90741
30852	P0C214	P48735	0.36921
30853	P0C214	Q2M1K9	0.18771
30854	P0C214	Q7Z589	0.69748
30855	P0C214	Q63HK5	0.26189
30856	P0C214	P0DKX0	0.44604

30857	P0C214	Q5RGN0	0.51029
30858	P0C214	P83436	0.29425
30859	P0C214	Q7L2K0	0.082505
30860	P0C214	Q9NSI2	0.24937
30861	P0C214	Q7L2E3	0.38557
30862	P0C214	Q53S33	0.69639
30863	P0C214	Q8TCD5	0.14851
30864	P0C214	O43402	0.68113
30865	P0C214	Q6STE5	0.74523
30866	P0C214	Q96GX9	0.44769
30867	P0C214	Q12962	1.0451
30868	P0C214	Q9H307	0.81129
30869	P0C214	Q9H3L0	0.4292
30870	P0C214	P69905	0.29612
30871	P0C214	Q66LE6	0.38105
30872	P0C214	Q8NCE8	0.35221
30873	P0C214	O75123	0.27035
30874	P0C214	O60535	0.37038
30875	P0C214	Q96EE3	0.57683
30876	P0C214	Q53H80	0.35354
30877	P0C214	P83881	1.0069
30878	P0C214	Q2M3W8	0.50227
30879	P0C214	Q15121	0.34094
30880	P0C214	Q9NP98	0.3766
30881	P0C214	Q9Y3B6	0.73626
30882	P0C214	Q15056	0.52538
30883	P0C214	O14964	0.51922
30884	P0C214	P63279	0.95701
30885	P0C214	Q06455	0.59962
30886	P0C214	P05787	1.3053
30887	P0C214	Q9NSG2	0.28533
30888	P0C214	Q9Y5Q3	0.7422
30889	P0C214	Q16613	0.19615
30890	P0C214	Q6ZTZ1	0.30254
30891	P0C214	Q9UHK0	0.35939
30892	P0C214	Q96G21	0.84614
30893	P0C214	Q6XQN6	0.36146
30894	P0C214	P60953	0.43984
30895	P0C214	P42224	0.23761
30896	P0C214	Q676U5	0.48338
30897	P0C214	Q9HAT8	0.65292
30898	P0C214	Q02386	0.2717
30899	P0C214	O75607	0.68938
30900	P0C214	P14136	0.42785
30901	P0C214	O75394	0.53548
30902	P0C214	Q15973	0.2007
30903	P0C214	Q6ZRI6	0.18738
30904	P0C214	O00423	0.33752
30905	P0C214	Q12816	0.27301
30906	P0C214	P49459	0.91374
30907	P0C214	Q13404	1.1206
30908	P0C214	P48556	0.54378
30909	P0C214	Q3MJ62	0.2507
30910	P0C214	O14656	0.28049
30911	P0C214	Q86WD7	0.88936
30912	P0C214	Q9HCH5	0.53703
30913	P0C214	O75208	0.39794
30914	P0C214	Q9H777	0.38657
30915	P0C214	Q96MT8	0.95523
30916	P0C214	P42568	0.84549
30917	P0C214	P37275	0.69456
30918	P0C214	Q68CJ9	0.67704
30919	P0C214	Q96S19	0.025122
30920	P0C214	Q8WVR3	0.24937
30921	P0C214	Q9Y2S0	0.1585
30922	P0C214	P28347	0.89544
30923	P0C214	Q3KP31	0.46805
30924	P0C214	Q7Z739	0.46322
30925	P0C214	Q96A73	1.0632
30926	P0C214	Q6NZI2	1.2071
30927	P0C214	P10914	0.39484
30928	P0C214	O60232	0.97261
30929	P0C214	Q14204	0.33053
30930	P0C214	Q96FH0	0.21105
30931	P0C214	Q8NI08	0.80979
30932	P0C214	Q6PJT7	0.89877

30933	P0C214	Q92734	0.091404
30934	P0C214	Q96MY1	0.62472
30935	P0C214	P78537	0.97573
30936	P0C214	P61218	0.2029
30937	P0C214	Q5HYK7	1.2812
30938	P0C214	Q70IA6	0.39765
30939	P0C214	Q5T5S1	0.60526
30940	P0C214	Q9P1A6	0.14636
30941	P0C214	Q8N8C0	0.33766
30942	P0C214	Q9NZ81	0.93949
30943	P0C214	Q8TBR4	0.41631
30944	P0C214	Q8N5Q1	0.907
30945	P0C214	Q9HAV4	1.2386
30946	P0C214	Q16666	0.52251
30947	P0C214	Q96NM4	0.242
30948	P0C214	Q9NPJ8	0.38275
30949	P0C214	Q13427	0.69288
30950	P0C214	Q8N128	0.086276
30951	P0C214	Q15928	0.50859
30952	P0C214	Q9UI32	0.46921
30953	P0C214	Q5VVS0	0.95859
30954	P0C214	P0C7W0	0.24937
30955	P0C214	Q8N448	0.75722
30956	P0C214	A6H8Z2	0.15822
30957	P0C214	Q8N5H3	0.24937
30958	P0C214	P17482	0.98819
30959	P0C214	O60299	0.30795
30960	P0C214	O43493	0.53748
30961	P0C214	Q17RC7	0.41178
30962	P0C214	Q8TDY2	0.91964
30963	P0C214	Q8IXW5	0.65864
30964	P0C214	O43745	0.6522
30965	P0C214	O95721	0.24622
30966	P0C214	Q8NHY2	1.0913
30967	P0C214	Q8WVB5	0.64222
30968	P0C214	P49792	0.91022
30969	P0C214	P35270	0.24586
30970	P0C214	Q5SXM2	0.53443
30971	P0C214	Q8IYW2	0.086276
30972	P0C214	O75381	0.24388
30973	P0C214	A8MYA2	0.067192
30974	P0C214	O75886	1.0515
30975	P0C214	Q96BN2	0.77665
30976	P0C214	Q9ULJ6	0.47098
30977	P0C214	Q9ULG1	0.24582
30978	P0C214	O95503	0.83199
30979	P0C214	Q9GZZ1	0.38322
30980	P0C214	O96018	0.35583
30981	P0C214	Q86TJ2	0.3055
30982	P0C214	Q86YV9	0.80588
30983	P0C214	Q8TDH9	0.14522
30984	P0C214	Q9UPG8	0.1622
30985	P0C214	Q96K58	0.23938
30986	P0C214	Q7L8W6	0.48256
30987	P0C214	Q9BYX4	0.34679
30988	P0C214	P54920	0.3857
30989	P0C214	Q5JVF3	0.3641
30990	P0C214	O43395	0.79068
30991	P0C214	Q05DH4	0.7199
30992	P0C214	Q9Y2Z2	0.92021
30993	P0C214	Q8NG27	0.23741
30994	P0C214	Q13618	0.4111
30995	P0C214	P57075	0.38497
30996	P0C214	Q9Y5B6	0.76615
30997	P0C214	P22087	0.63201
30998	P0C214	A0MZ66	0.6129
30999	P0C214	P23284	0.65781
31000	P0C214	O15127	0.47822
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31003	P0C214	Q6ISB3	0.6434
31004	P0C214	Q9UKI9	1.1671
31005	P0C214	Q9BUL8	0.67837
31006	P0C214	Q9UKX7	1.0112
31007	P0C214	Q08378	0.27173
31008	P0C214	Q9BWD3	0.16623

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31010	P0C214	Q5T653	0.54353
31011	P0C214	P40306	0.51422
31012	P0C214	Q93034	0.8311
31013	P0C214	Q3ZCQ2	0.086276
31014	P0C214	Q9H869	1.3951
31015	P0C214	Q49AM1	0.44086
31016	P0C214	Q96HQ2	0.92792
31017	P0C214	Q9BTA0	0.24937
31018	P0C214	Q96JC4	0.35746
31019	P0C214	Q86W56	0.78558
31020	P0C214	P62701	0.68068
31021	P0C214	Q9HA92	0.48254
31022	P0C214	Q99608	0.17134
31023	P0C214	Q9GZQ3	1.0619
31024	P0C214	Q9BZK8	0.086276
31025	P0C214	Q71UM5	0.86958
31026	P0C214	P36543	0.28827
31027	P0C214	Q6IPU0	0.24794
31028	P0C214	P49207	0.89116
31029	P0C214	Q06330	0.4863
31030	P0C214	Q99873	0.66953
31031	P0C214	P11940	0.54638
31032	P0C214	P98168	0.65832
31033	P0C214	P05813	0.19081
31034	P0C214	Q9NYK6	0.37781
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31037	P0C214	Q99497	0.18325
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31039	P0C214	Q7Z3I7	0.26874
31040	P0C214	Q15910	0.38814
31041	P0C214	P14635	0.2499
31042	P0C214	Q15370	1.2248
31043	P0C214	Q14232	0.22281
31044	P0C214	P0CW26	0.16767
31045	P0C214	P63220	0.76824
31046	P0C214	Q9Y296	0.1947
31047	P0C214	Q15257	0.49741
31048	P0C214	Q96HZ7	0.086276
31049	P0C214	Q99607	0.97771
31050	P0C214	O60296	0.55482
31051	P0C214	Q96IL0	0.17552
31052	P0C214	A6NJJ6	0.24937
31053	P0C214	Q0VDD7	1.0809
31054	P0C214	Q7Z7F1	0.2436
31055	P0C214	Q32MZ4	1.0281
31056	P0C214	A2RU30	0.25438
31057	P0C214	Q5JWF8	0.041938
31058	P0C214	O00716	0.97278
31059	P0C214	Q8NBT2	0.73405
31060	P0C214	Q8IZ26	0.3115
31061	P0C214	Q92529	0.32272
31062	P0C214	Q10570	0.75988
31063	P0C214	H3BNL1	0.19015
31064	P0C214	Q15050	0.76213
31065	P0C214	Q75030	0.47179
31066	P0C214	Q9NSI6	0.83245
31067	P0C214	Q8N726	0.51863
31068	P0C214	Q9NVF7	0.3662
31069	P0C214	Q3BBV0	0.42949
31070	P0C214	Q9UBS3	0.71286
31071	P0C214	Q9Y2A0	0.20991
31072	P0C214	B3EWG3	0.24937
31073	P0C214	P78395	0.65692
31074	P0C214	Q6WBX8	0.34094
31075	P0C214	Q6ZV77	0.086276
31076	P0C214	Q8N9F8	0.33108
31077	P0C214	Q8N668	0.75466
31078	P0C214	Q9Y6Q2	0.25454
31079	P0C214	Q6ZUA9	0.21138
31080	P0C214	Q5RKV6	0.35397
31081	P0C214	P48200	0.56075
31082	P0C214	Q9Y613	0.51813
31083	P0C214	Q9NUQ6	0.35391
31084	P0C214	Q9NRD1	0.21063

31085	POC214	Q9Y2M0	0.3016
31086	POC214	Q5SWA1	0.67395
31087	POC214	O43617	0.38421
31088	POC214	P17024	0.31548
31089	POC214	Q9Y232	0.21984
31090	POC214	Q9Y2Q1	0.47209
31091	POC214	Q8NC74	0.34205
31092	POC214	Q9BZS9	0.086276
31093	POC214	Q6ZUL3	0.086276
31094	POC214	Q6ZR52	0.38021
31095	POC214	Q9NXV2	1.4022
31096	POC214	O75340	0.43798
31097	POC214	P20585	0.030835
31098	POC214	P68402	0.099086
31099	POC214	P26641	0.61424
31100	POC214	Q8NCU7	0.65252
31101	POC214	P69208	0.098385
31102	POC214	P06396	0.40971
31103	POC214	Q3LI76	0.50329
31104	POC214	Q7L9L4	0.83762
31105	POC214	Q5T870	0.70223
31106	POC214	Q9NQ29	0.81084
31107	POC214	Q14771	0.58933
31108	POC214	Q9H6Q4	0.48571
31109	POC214	Q96CT7	0.054683
31110	POC214	Q9BXQ6	0.086276
31111	POC214	Q96DN6	0.23587
31112	POC214	Q12901	0.40317
31113	POC214	Q92540	1.0915
31114	POC214	Q96NG5	0.40737
31115	POC214	O60813	0.36259
31116	POC214	Q8WVZ9	0.41816
31117	POC214	Q14599	0.41813
31118	POC214	Q8N819	0.40985
31119	POC214	Q8NFU3	0.12809
31120	POC214	O60437	0.69749
31121	POC214	Q96N77	0.3338
31122	POC214	Q9NSC5	0.37717
31123	POC214	P20700	0.2073
31124	POC214	Q75164	1.093
31125	POC214	Q9H910	0.78406
31126	POC214	Q86SQ9	0.10075
31127	POC214	P61575	0.39132
31128	POC214	P55198	0.80901
31129	POC214	P40939	0.36045
31130	POC214	O60477	0.43754
31131	POC214	P05413	0.23094
31132	POC214	P55345	0.40618
31133	POC214	Q8NCQ2	0.48343
31134	POC214	Q8N5J4	0.36351
31135	POC214	Q9NX18	0.87889
31136	POC214	Q9H6R4	0.39322
31137	POC214	P24385	0.51418
31138	POC214	Q6ZU52	0.2675
31139	POC214	P51808	0.18397
31140	POC214	Q86WZ0	0.159
31141	POC214	Q96SE7	0.37033
31142	POC214	O75151	0.64715
31143	POC214	P60411	0.43378
31144	POC214	O00139	0.29899
31145	POC214	Q9NVM9	1.0327
31146	POC214	Q04724	0.82698
31147	POC214	Q9BUR4	0.80799
31148	POC214	Q9UQN3	0.50704
31149	POC214	Q13875	0.59529
31150	POC214	Q14676	0.52841
31151	POC214	P08865	0.93163
31152	POC214	Q96JG6	0.018603
31153	POC214	Q9H091	0.17354
31154	POC214	Q9BTT4	0.61448
31155	POC214	P49005	0.49437
31156	POC214	Q14999	1.1197
31157	POC214	Q7Z614	0.29301
31158	POC214	Q9Y2Q9	0.54217
31159	POC214	Q96CW5	0.78446
31160	POC214	Q9H0A9	1.0231

31161	POC214	P05121	0.78952
31162	POC214	Q8WXD5	0.99045
31163	POC214	Q14194	0.45535
31164	POC214	Q9UBU7	0.026052
31165	POC214	Q6ZMS7	0.37171
31166	POC214	Q15691	0.54855
31167	POC214	Q9NZI8	0.26202
31168	POC214	P32969	1.1125
31169	POC214	Q5VZR2	0.72088
31170	POC214	Q6IPT2	0.907
31171	POC214	Q9NNX9	0.70144
31172	POC214	Q9UK41	0.69211
31173	POC214	Q3KRA6	0.9744
31174	POC214	Q13884	0.30716
31175	POC214	Q86WP2	0.37729
31176	POC214	Q5JPH6	0.42695
31177	POC214	Q9H4L7	0.32241
31178	POC214	Q5U5X8	0.52883
31179	POC214	Q7Z2X4	0.23431
31180	POC214	P35908	0.38324
31181	POC214	Q02543	0.97266
31182	POC214	Q8NEQ6	0.11647
31183	POC214	Q6ZN19	0.25925
31184	POC214	Q13200	0.60989
31185	POC214	Q9UL41	0.53311
31186	POC214	P07199	0.669
31187	POC214	Q9UK61	0.46209
31188	POC214	O43776	0.81413
31189	POC214	Q9Y3R4	0.19396
31190	POC214	Q13901	1.0659
31191	POC214	Q92733	0.75083
31192	POC214	P62266	1.1544
31193	POC214	Q14129	0.51831
31194	POC214	P17038	0.38021
31195	POC214	Q8NEK8	0.37656
31196	POC214	Q9UJX2	0.67236
31197	POC214	F5H4B4	0.54789
31198	POC214	A6NNH0	0.63857
31199	POC214	Q6ZMR3	0.96724
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31201	POC214	Q9Y468	0.81485
31202	POC214	Q9UC07	0.30617
31203	POC214	Q68E01	0.54302
31204	POC214	Q8NEY3	0.31433
31205	POC214	Q9Y3D8	0.21653
31206	POC214	Q2KHT3	0.23452
31207	POC214	Q9HAU5	1.0073
31208	POC214	Q9NXX8	0.56048
31209	POC214	Q14686	0.82256
31210	POC214	P30414	0.69592
31211	POC214	Q8IXP5	0.24937
31212	POC214	A8MZG2	0.24937
31213	POC214	O94864	0.46776
31214	POC214	Q9NYP3	0.37563
31215	POC214	Q9Y6I3	0.052121
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31217	POC214	P31948	0.88552
31218	POC214	Q99962	0.31397
31219	POC214	A6NGG3	0.086276
31220	POC214	O95149	0.4992
31221	POC214	Q8NEJ9	0.29361
31222	POC214	Q15545	0.84241
31223	POC214	Q96EK7	0.24855
31224	POC214	P38935	0.42249
31225	POC214	Q9HAW4	0.28615
31226	POC214	Q96HT8	1.28
31227	POC214	Q8N7B7	0.22927
31228	POC214	A8MSY0	0.23803
31229	POC214	Q8WV60	0.25451
31230	POC214	O95396	0.23505
31231	POC214	Q8N2H9	0.32414
31232	POC214	Q7L3B6	0.25373
31233	POC214	Q494X3	0.47643
31234	POC214	P0CG35	0.72737
31235	POC214	Q99547	0.70904
31236	POC214	Q14938	0.12315



31237	POC214	Q9BXT5	0.39984
31238	POC214	O75420	0.48436
31239	POC214	Q96MR9	0.43328
31240	POC214	Q9Y2P0	0.29953
31241	POC214	Q9H0R1	0.10687
31242	POC214	O60244	0.51898
31243	POC214	Q7RTU5	0.38179
31244	POC214	Q00978	0.96962
31245	POC214	Q86Z20	1.0729
31246	POC214	Q8N612	0.23781
31247	POC214	Q6EEV4	0.086276
31248	POC214	Q15170	1.3647
31249	POC214	Q9GZU7	0.53839
31250	POC214	Q9H379	0.30078
31251	POC214	Q8N5T8	0.18531
31252	POC214	Q96K75	0.28618
31253	POC214	Q8N6Q8	0.44451
31254	POC214	Q1W209	0.086276
31255	POC214	Q9BYR0	0.43378
31256	POC214	Q9BQN1	0.67458
31257	POC214	P40926	0.75212
31258	POC214	P16083	0.17757
31259	POC214	P09001	0.59874
31260	POC214	P62877	0.67169
31261	POC214	Q2VPB7	0.6712
31262	POC214	Q5MJ68	0.15857
31263	POC214	Q6ZQP7	0.086276
31264	POC214	P32189	0.34829
31265	POC214	Q9NPB8	0.13242
31266	POC214	O96006	0.61822
31267	POC214	O75330	0.072932
31268	POC214	O60551	0.2092
31269	POC214	Q569H4	0.24937
31270	POC214	Q9UII5	0.37211
31271	POC214	Q49B96	0.6344
31272	POC214	O00308	0.299
31273	POC214	Q6P1K2	1.1361
31274	POC214	Q5T4H9	0.086276
31275	POC214	Q15653	1.0113
31276	POC214	Q4V348	0.24611
31277	POC214	Q9NY12	0.35369
31278	POC214	P22557	0.29461
31279	POC214	P59090	0.086276
31280	POC214	O43463	0.72156
31281	POC214	O75794	1.2143
31282	POC214	Q9BT81	0.26441
31283	POC214	Q7KZF4	0.96346
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31285	POC214	Q9UKG1	0.35374
31286	POC214	P46060	0.26181
31287	POC214	Q9UNS2	0.6335
31288	POC214	Q96SZ4	0.22695
31289	POC214	A6NLF2	0.31331
31290	POC214	Q9H063	0.4638
31291	POC214	Q15031	0.29999
31292	POC214	P62308	0.80392
31293	POC214	Q6IV72	0.27217
31294	POC214	Q562F6	0.78356
31295	POC214	Q96LT7	0.55173
31296	POC214	Q9NY61	0.77078
31297	POC214	Q96GX8	0.24937
31298	POC214	Q9BXR0	1.3921
31299	POC214	O14556	0.80401
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31301	POC214	Q9H489	0.85642
31302	POC214	Q8N141	0.50227
31303	POC214	Q3KP22	0.089033
31304	POC214	Q86UY8	0.17404
31305	POC214	Q15436	0.6379
31306	POC214	Q96TC7	0.46291
31307	POC214	Q9NWT8	0.84438
31308	POC214	Q9Y4Z0	0.8311
31309	POC214	Q8TBE0	0.67207
31310	POC214	P51786	0.2833
31311	POC214	Q5VVH5	0.58787
31312	POC214	Q9BY31	0.20165

31313	POC214	Q3B7T1	0.39389
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31315	POC214	Q96T17	0.55877
31316	POC214	Q658Y4	0.39128
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31318	POC214	Q75VX8	0.74501
31319	POC214	Q9Y266	0.86844
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31321	POC214	Q69YH5	0.72707
31322	POC214	Q8IWE5	0.3113
31323	POC214	Q9UET6	0.86401
31324	POC214	P35573	0.71008
31325	POC214	Q9UK45	0.89284
31326	POC214	Q9C0C6	0.64982
31327	POC214	Q969Q0	0.095792
31328	POC214	F8W1W9	0.043236
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31330	POC214	Q9HCU8	0.46207
31331	POC214	Q8NDH6	0.39171
31332	POC214	Q9UI95	1.1515
31333	POC214	Q15560	0.96142
31334	POC214	Q9H2F5	0.48541
31335	POC214	O43318	0.47939
31336	POC214	Q96GI7	0.24937
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31338	POC214	P14868	0.98867
31339	POC214	P13196	0.47245
31340	POC214	O43148	0.92061
31341	POC214	Q6ZSJ8	0.24937
31342	POC214	P52565	0.13808
31343	POC214	Q96BV0	0.16136
31344	POC214	P13640	0.56842
31345	POC214	Q7RTX8	9.3936e-005
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31351	POC214	O60287	0.96041
31352	POC214	A6NEJ1	0.17331
31353	POC214	Q6PIJ6	0.5958
31354	POC214	Q8NAV1	0.70342
31355	POC214	Q5SVQ8	0.35429
31356	POC214	Q6ZS94	0.086276
31357	POC214	Q6IA86	0.54942
31358	POC214	O76042	0.46927
31359	POC214	O43390	0.63499
31360	POC214	Q92541	0.88848
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31365	POC214	Q8N883	0.26062
31366	POC214	O00232	0.36835
31367	POC214	Q9Y5N6	0.48445
31368	POC214	Q5T447	0.38666
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31370	POC214	Q99750	0.37406
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31372	POC214	Q96MT3	0.8875
31373	POC214	Q15366	1.0133
31374	POC214	Q9Y2S2	0.079191
31375	POC214	Q96FF9	0.76515
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31378	POC214	O95347	0.33998
31379	POC214	Q8NDC0	0.13629
31380	POC214	Q3SXZ3	0.30182
31381	POC214	Q9GZX5	0.78655
31382	POC214	O60810	0.69314
31383	POC214	Q8WW22	0.97466
31384	POC214	P05423	0.177
31385	POC214	Q8IWL3	0.60647
31386	POC214	Q7L592	0.4323
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31388	POC214	Q9H1A3	0.26948

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31393	P0C214	Q9NXT0	0.25251
31394	P0C214	Q6P5X5	0.72991
31395	P0C214	Q7Z6M4	0.44484
31396	P0C214	Q9UKD1	0.73823
31397	P0C214	Q13064	0.19885
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31399	P0C214	P51523	0.20866
31400	P0C214	P49591	0.55377
31401	P0C214	Q7Z6I5	0.76405
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31403	P0C214	O95049	0.389
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31410	P0C214	Q8IZU0	0.60323
31411	P0C214	Q86VP3	0.59786
31412	P0C214	Q8IUR0	0.92167
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31420	P0C214	Q96BQ5	0.55913
31421	P0C214	Q9BSK1	0.23356
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31426	P0C214	O43639	0.45849
31427	P0C214	Q96EN9	0.30252
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31435	P0C214	Q9UD71	0.89278
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31438	P0C214	Q5PSV4	0.359
31439	P0C214	Q9BZQ2	0.54279
31440	P0C214	Q9BPZ3	0.4756
31441	P0C214	A8MV65	0.61461
31442	P0C214	P43355	1.0247
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31447	P0C214	Q9HCX3	0.23454
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31449	P0C214	Q96AT1	0.24937
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31453	P0C214	P55789	0.15201
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31471	POC214	Q9Y248	0.64298
31472	POC214	Q03933	0.63006
31473	POC214	Q9Y3Z3	0.1586
31474	POC214	Q96RT7	0.27841
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31476	POC214	Q5VTD9	0.16919
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31507	POC214	Q8N365	0.24937
31508	POC214	Q9UI30	0.35517
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31515	POC214	Q8IYI0	0.041094
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31528	POC214	Q9Y2G5	0.18365
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31532	POC214	Q8N983	0.54328
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31535	POC214	Q6ZNM6	0.58553
31536	POC214	Q68CZ2	0.28749
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31538	POC214	Q06830	0.40417
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31543	P0C214	Q8IWE4	0.31901
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31547	P0C214	Q9BZV1	1.0203
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31549	P0C214	Q96IZ7	1.0576
31550	P0C214	Q86W50	0.48706
31551	P0C214	Q9NUQ3	0.65808
31552	P0C214	P49716	0.26665
31553	P0C214	P78386	0.53378
31554	P0C214	Q1RMZ1	0.23275
31555	P0C214	Q9H089	0.22125
31556	P0C214	Q9NWQ4	0.18973
31557	P0C214	Q96DC7	1.168
31558	P0C214	Q6ZW49	0.37607
31559	P0C214	Q8WTV1	0.77682
31560	P0C214	Q10587	0.20601
31561	P0C214	Q9UPQ9	0.44757
31562	P0C214	P32929	0.34673
31563	P0C214	Q8NAE3	0.15056
31564	P0C214	Q8N5U6	0.9957
31565	P0C214	Q9BXW3	0.086276
31566	P0C214	P62072	0.19607
31567	P0C214	A8MVM7	0.086276
31568	P0C214	O95571	0.69606
31569	P0C214	Q07955	0.58056
31570	P0C214	Q5T6F2	0.70773
31571	P0C214	P10244	0.47271
31572	P0C214	Q8N344	0.47392
31573	P0C214	Q5VTA0	0.36894
31574	P0C214	P11166	0.57008
31575	P0C214	P49450	0.23893
31576	P0C214	P54368	0.057821
31577	P0C214	P53701	0.45284
31578	P0C214	P50749	0.66582
31579	P0C214	P18615	1.0761
31580	P0C214	Q9H0W9	0.61831
31581	P0C214	Q7Z5V6	0.29952
31582	P0C214	E9PAV3	0.53901
31583	P0C214	Q96BF6	0.31209
31584	P0C214	Q9BQI9	0.62503
31585	P0C214	Q9BY27	0.46777
31586	P0C214	P17030	0.27117
31587	P0C214	Q10586	0.30727
31588	P0C214	Q9UH99	0.13541
31589	P0C214	Q7L804	0.49951
31590	P0C214	Q9H098	0.47683
31591	P0C214	Q96QU8	0.93058
31592	P0C214	Q9Y534	0.27362
31593	P0C214	Q9NZC7	0.55894
31594	P0C214	Q13794	0.57147
31595	P0C214	O95359	0.24586
31596	P0C214	Q6VUC0	0.33775
31597	P0C214	Q9BT92	0.51152
31598	P0C214	Q9BWG6	0.13248
31599	P0C214	Q13428	0.86117
31600	P0C214	Q9Y250	0.84989
31601	P0C214	Q6QNY0	0.70421
31602	P0C214	A7MCY6	0.58714
31603	P0C214	E9PB15	0.046414
31604	P0C214	O75564	0.35016
31605	P0C214	Q03936	0.46545
31606	P0C214	Q5QJE6	0.8248
31607	P0C214	O14561	0.37539
31608	P0C214	Q8TBF2	0.31124
31609	P0C214	Q6ZNK6	0.77451
31610	P0C214	Q96CN9	0.43634
31611	P0C214	Q96NL3	0.32443
31612	P0C214	Q99798	0.16285
31613	P0C214	P0C1Z6	1.048
31614	P0C214	O60828	0.75495
31615	P0C214	Q8TF68	0.095757
31616	P0C214	Q701N2	0.086276

31617	P0C214	Q9Y5P3	0.37134
31618	P0C214	O14974	0.28369
31619	P0C214	Q9H944	1.0186
31620	P0C214	P60510	0.79389
31621	P0C214	Q9UKJ3	0.70309
31622	P0C214	Q9BYK8	0.47916
31623	P0C214	Q5T2W1	0.29107
31624	P0C214	Q9NR46	0.38819
31625	P0C214	Q96CS2	0.36456
31626	P0C214	Q14315	0.30044
31627	P0C214	Q9NZI7	0.19846
31628	P0C214	P80297	0.39508
31629	P0C214	P57086	0.44629
31630	P0C214	P22061	0.48968
31631	P0C214	Q5SQN1	0.28546
31632	P0C214	Q9Y5K5	0.44134
31633	P0C214	Q2VWA4	0.08379
31634	P0C214	Q9BSV6	0.34808
31635	P0C214	Q9UK39	0.38387
31636	P0C214	Q9BTE3	0.6417
31637	P0C214	O75800	0.33839
31638	P0C214	P48382	0.80578
31639	P0C214	P0CB43	0.012852
31640	P0C214	Q9H4R4	0.049355
31641	P0C214	Q9BRU9	0.45151
31642	P0C214	Q9HBZ2	0.26766
31643	P0C214	P20265	0.56656
31644	P0C214	Q96LM1	0.32623
31645	P0C214	Q9P2R7	0.53453
31646	P0C214	B3EWF7	0.086276
31647	P0C214	Q13216	0.43088
31648	P0C214	Q14980	1.0131
31649	P0C214	Q7RTT4	0.17331
31650	P0C214	Q5VWG9	0.7059
31651	P0C214	Q2NL98	0.67135
31652	P0C214	Q53QV2	0.37961
31653	P0C214	Q52M58	0.27067
31654	P0C214	Q02078	0.30804
31655	P0C214	Q9ULL0	0.21184
31656	P0C214	Q8WUN7	0.35391
31657	P0C214	Q8TEP8	0.7999
31658	P0C214	O15481	0.011836
31659	P0C214	O75223	0.079485
31660	P0C214	Q96FA7	0.69995
31661	P0C214	O75830	0.96136
31662	P0C214	Q9BW66	0.79069
31663	P0C214	Q86XN6	0.37855
31664	P0C214	Q658L1	0.51235
31665	P0C214	Q9UBX3	0.38415
31666	P0C214	Q53FT3	0.29392
31667	P0C214	Q86Y26	0.49983
31668	P0C214	Q14503	0.78183
31669	P0C214	P11532	0.44053
31670	P0C214	O95059	0.28385
31671	P0C214	Q9UPV0	1.521
31672	P0C214	Q9HCE7	0.23016
31673	P0C214	Q9C0F1	0.13056
31674	P0C214	A4D997	0.16667
31675	P0C214	Q8NHU0	0.19717
31676	P0C214	Q92665	0.76286
31677	P0C214	Q9H2H8	0.7118
31678	P0C214	Q13501	0.43183
31679	P0C214	O76031	0.5296
31680	P0C214	Q8IZH2	0.32895
31681	P0C214	P49366	0.52586
31682	P0C214	A6NES4	0.0089829
31683	P0C214	Q7RTT5	0.17331
31684	P0C214	Q15561	0.80827
31685	P0C214	Q9H8Q6	0.56305
31686	P0C214	Q969F1	0.62253
31687	P0C214	O15519	0.23423
31688	P0C214	P82094	1.1667
31689	P0C214	Q9BZE9	0.65022
31690	P0C214	Q9BT78	0.999
31691	P0C214	Q86V97	0.41816
31692	P0C214	P46779	1.371

31693	POC214	Q9H0B6	0.5921
31694	POC214	Q07352	0.95883
31695	POC214	P62714	0.75714
31696	POC214	O95989	0.44549
31697	POC214	Q5TAB7	0.62088
31698	POC214	O60921	0.72112
31699	POC214	Q8N5C8	0.51528
31700	POC214	Q8TDN4	0.8069
31701	POC214	O60825	0.35115
31702	POC214	P55795	0.16029
31703	POC214	Q9NYP7	0.17897
31704	POC214	Q8N3C0	0.38152
31705	POC214	Q8N2Z9	0.48239
31706	POC214	A6NEQ9	0.086276
31707	POC214	Q8TAD7	0.24937
31708	POC214	P10746	0.28818
31709	POC214	Q16548	0.45556
31710	POC214	P08397	0.23293
31711	POC214	O95201	0.56957
31712	POC214	Q6PGN9	0.76428
31713	POC214	Q9BY42	0.41397
31714	POC214	Q9P0R6	0.28951
31715	POC214	Q8TC21	0.26163
31716	POC214	Q969E4	0.39389
31717	POC214	Q96D70	0.53651
31718	POC214	A6NMK8	0.23055
31719	POC214	Q9NX05	0.37248
31720	POC214	Q9UJ68	0.16036
31721	POC214	P23786	0.17719
31722	POC214	Q6P3W6	0.50532
31723	POC214	O95707	0.94567
31724	POC214	Q8N1A0	0.47439
31725	POC214	P28698	0.64714
31726	POC214	O75525	0.8226
31727	POC214	Q00059	0.88237
31728	POC214	Q15633	0.94028
31729	POC214	P78352	0.49376
31730	POC214	Q8IXW0	0.43438
31731	POC214	Q9NWS9	0.054703
31732	POC214	Q96ST8	0.88046
31733	POC214	P15121	0.59032
31734	POC214	Q70EK8	0.5502
31735	POC214	Q14258	1.1824
31736	POC214	Q9GZS1	0.32027
31737	POC214	Q9Y3C7	0.86837
31738	POC214	Q9H0N5	1.0214
31739	POC214	P50747	0.18494
31740	POC214	Q6PJP8	0.58883
31741	POC214	Q14197	0.082977
31742	POC214	Q9BY43	0.38623
31743	POC214	Q9UJ04	0.65767
31744	POC214	Q03188	0.26574
31745	POC214	Q92922	0.99249
31746	POC214	Q9ULE4	0.40212
31747	POC214	Q8IXF0	0.2763
31748	POC214	Q9BWU0	0.5206
31749	POC214	Q7L4I2	1.5753
31750	POC214	Q9H3H1	0.44088
31751	POC214	Q8NFR7	0.26461
31752	POC214	Q6ZW13	0.086276
31753	POC214	O43303	0.85151
31754	POC214	Q9H299	0.15826
31755	POC214	P15622	0.32443
31756	POC214	Q86UD0	0.43557
31757	POC214	Q6ECI4	0.36207
31758	POC214	Q5VUG0	0.28639
31759	POC214	Q9BZ01	0.25786
31760	POC214	A6NEF3	0.49852
31761	POC214	Q15102	0.31496
31762	POC214	Q8IW35	1.0727
31763	POC214	O95397	0.7
31764	POC214	Q9UM07	0.58567
31765	POC214	Q9Y333	0.79467
31766	POC214	O43299	1.0911
31767	POC214	A6NNA2	0.60967
31768	POC214	Q9BXH1	0.40266

31769	P0C214	O75312	0.42947
31770	P0C214	Q6ZSS3	0.21588
31771	P0C214	Q9NSA3	0.74772
31772	P0C214	Q9BRR0	0.24903
31773	P0C214	Q14696	0.25402
31774	P0C214	Q5TG08	0.54789
31775	P0C214	Q9H7P6	0.58195
31776	P0C214	Q59GN2	0.33359
31777	P0C214	Q9HB19	0.42017
31778	P0C214	Q6ZN08	0.44278
31779	P0C214	Q8N859	0.50853
31780	P0C214	Q9NWX4	0.18463
31781	P0C214	Q8IV32	0.10061
31782	P0C214	P63010	0.43366
31783	P0C214	Q99460	0.36592
31784	P0C214	D6RB28	0.48478
31785	P0C214	Q9H1K1	1.0355
31786	P0C214	A6NI86	0.64941
31787	P0C214	Q13129	0.68518
31788	P0C214	O95298	0.31685
31789	P0C214	Q15049	0.85067
31790	P0C214	Q96NJ1	0.086276
31791	P0C214	P52298	0.66769
31792	P0C214	Q9UK76	0.78406
31793	P0C214	Q8N8U2	0.44816
31794	P0C214	Q13642	0.46105
31795	P0C214	Q9GZT8	1.0197
31796	P0C214	P13056	0.4401
31797	P0C214	Q9Y3X0	0.39895
31798	P0C214	P48668	0.25397
31799	P0C214	Q9UIS9	0.42099
31800	P0C214	Q9H9A7	0.54312
31801	P0C214	Q10567	0.5889
31802	P0C214	P52272	0.30317
31803	P0C214	Q76KD6	0.28434
31804	P0C214	P28066	0.75435
31805	P0C214	A6NFQ2	0.10906
31806	P0C214	Q9Y421	0.3032
31807	P0C214	Q99966	0.22334
31808	P0C214	Q9HC78	0.11201
31809	P0C214	Q969P5	0.10974
31810	P0C214	Q96N23	0.25246
31811	P0C214	Q9NZJ4	0.15507
31812	P0C214	A6NKX1	0.086276
31813	P0C214	Q9NPG2	0.23272
31814	P0C214	Q9Y237	0.40702
31815	P0C214	Q8TE85	0.22002
31816	P0C214	Q9UQB3	0.48416
31817	P0C214	P28715	0.24773
31818	P0C214	O00303	0.40309
31819	P0C214	Q96MB7	0.24623
31820	P0C214	P10243	0.45378
31821	P0C214	Q12968	0.7288
31822	P0C214	Q01094	0.62832
31823	P0C214	O75832	0.5213
31824	P0C214	Q14814	0.48112
31825	P0C214	Q9H467	1.0022
31826	P0C214	Q96GX2	0.5369
31827	P0C214	Q8WUE5	0.12778
31828	P0C214	H3BN30	0.086276
31829	P0C214	Q9ULQ0	0.89614
31830	P0C214	O75446	1.0452
31831	P0C214	O43516	0.16196
31832	P0C214	Q7LBR1	0.80255
31833	P0C214	Q99614	0.25893
31834	P0C214	Q8NCD3	0.44894
31835	P0C214	P0DJG4	0.53898
31836	P0C214	Q86VE0	0.81683
31837	P0C214	Q13137	1.0386
31838	P0C214	Q9Y2P8	0.52746
31839	P0C214	Q9H7D7	0.35391
31840	P0C214	Q9Y6Z5	0.53008
31841	P0C214	Q9Y2N7	0.62955
31842	P0C214	Q5T9G4	0.86255
31843	P0C214	P45877	0.77514
31844	P0C214	Q05BU3	0.086276



31845	P0C214	Q9UHY8	0.25255
31846	P0C214	Q9HC16	0.24104
31847	P0C214	O75969	0.44509
31848	P0C214	Q8N3U1	0.086276
31849	P0C214	Q9UHQ1	0.76741
31850	P0C214	P11168	0.095236
31851	P0C214	B1APH4	0.38062
31852	P0C214	Q9UL36	0.27688
31853	P0C214	P18848	0.95416
31854	P0C214	P00374	0.13432
31855	P0C214	Q6P9F0	0.26011
31856	P0C214	Q92966	0.4412
31857	P0C214	P62253	0.80576
31858	P0C214	O95685	0.14802
31859	P0C214	P62487	0.40566
31860	P0C214	O75122	0.2187
31861	P0C214	O43482	0.52726
31862	P0C214	O00273	0.33598
31863	P0C214	Q9ULJ3	0.55998
31864	P0C214	O14925	0.18528
31865	P0C214	Q92681	0.34102
31866	P0C214	P13929	0.37846
31867	P0C214	Q96RN5	1.2391
31868	P0C214	Q16633	0.50381
31869	P0C214	Q86WH2	0.097721
31870	P0C214	P78358	0.45292
31871	P0C214	Q8N6G1	0.086276
31872	P0C214	Q9NRX3	0.64599
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31874	P0C214	Q6P435	0.33737
31875	P0C214	Q8N6K4	0.086276
31876	P0C214	Q86WV5	0.50542
31877	P0C214	P18545	0.27444
31878	P0C214	P40429	0.96028
31879	P0C214	Q96HW7	0.54729
31880	P0C214	Q9P0J6	0.55115
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31882	P0C214	Q9Y3C6	0.7118
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31884	P0C214	Q03393	0.23815
31885	P0C214	O14867	0.35877
31886	P0C214	Q14566	0.1817
31887	P0C214	Q674X7	0.31558
31888	P0C214	Q5VSR9	0.46567
31889	P0C214	Q8WVK2	0.39398
31890	P0C214	P17535	0.8271
31891	P0C214	Q92597	0.5098
31892	P0C214	A6NIX2	0.94363
31893	P0C214	Q9UI17	0.11908
31894	P0C214	Q13506	0.36859
31895	P0C214	P62314	0.95805
31896	P0C214	P41091	0.20726
31897	P0C214	Q99732	0.19016
31898	P0C214	Q96DX5	1.1421
31899	P0C214	Q3KNV8	0.85785
31900	P0C214	Q8TF63	0.4422
31901	P0C214	Q53GL7	0.53245
31902	P0C214	A2A288	0.23636
31903	P0C214	P98170	0.32805
31904	P0C214	Q8N655	0.086276
31905	P0C214	O43734	0.24937
31906	P0C214	P30793	0.27452
31907	P0C214	A8MWS5	0.027571
31908	P0C214	O00479	0.38875
31909	P0C214	Q7Z7J5	0.50721
31910	P0C214	Q96KW2	0.61951
31911	P0C214	Q86US8	0.6676
31912	P0C214	Q96G03	0.62745
31913	P0C214	Q6ICG7	0.086276
31914	P0C214	Q86VS8	0.26595
31915	P0C214	P07910	0.29319
31916	P0C214	Q71F78	0.17488
31917	P0C214	Q14493	0.91816
31918	P0C214	Q8IYB3	0.44767
31919	P0C214	Q9NX53	0.2675
31920	P0C214	Q9Y6R6	0.3804

31921	P0C214	Q49AA0	0.46445
31922	P0C214	Q8N3S3	0.27569
31923	P0C214	Q92754	0.45241
31924	P0C214	Q92572	0.28657
31925	P0C214	Q92698	0.21281
31926	P0C214	Q9NRY5	0.7859
31927	P0C214	Q15834	1.0154
31928	P0C214	Q969G3	0.95813
31929	P0C214	O60870	0.79865
31930	P0C214	Q92674	0.42941
31931	P0C214	P47914	1.1278
31932	P0C214	Q9H1B4	0.33488
31933	P0C214	Q8TAT6	0.5626
31934	P0C214	O43439	0.82635
31935	P0C214	Q8TF40	0.83638
31936	P0C214	Q9UMS0	1.1751
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31938	P0C214	P53675	0.23642
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31941	P0C214	Q8TCC3	0.088153
31942	P0C214	O43809	0.69184
31943	P0C214	Q8N8I6	0.086276
31944	P0C214	O00712	0.16344
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31947	P0C214	Q8N9R0	0.086276
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31951	P0C214	Q9HB96	0.75471
31952	P0C214	Q8WY36	0.242
31953	P0C214	Q13045	0.98457
31954	P0C214	Q9UHX1	0.6153
31955	P0C214	Q14533	0.64234
31956	P0C214	P0CG34	0.72737
31957	P0C214	Q9NTM9	0.21776
31958	P0C214	Q5BKX5	0.24937
31959	P0C214	Q9NX04	0.12396
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31961	P0C214	Q9Y2T7	0.13545
31962	P0C214	Q92844	0.5426
31963	P0C214	P49790	1.0748
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31965	P0C214	O75635	0.92397
31966	P0C214	B3EWG4	0.24937
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31968	P0C214	Q5MJ10	0.46567
31969	P0C214	Q13011	0.11336
31970	P0C214	Q2TAM9	0.72088
31971	P0C214	Q96EY5	0.36006
31972	P0C214	O43681	0.20652
31973	P0C214	Q7Z340	0.2834
31974	P0C214	Q96Q89	0.35453
31975	P0C214	Q12798	0.54982
31976	P0C214	Q9BUP3	0.27801
31977	P0C214	Q9UKA2	0.46131
31978	P0C214	Q6ZNG1	0.38935
31979	P0C214	A6NF01	0.91744
31980	P0C214	Q9BYQ4	0.43378
31981	P0C214	Q8IVI9	0.24275
31982	P0C214	A6NNW6	0.25592
31983	P0C214	P18583	0.32536
31984	P0C214	Q96AT9	0.10981
31985	P0C214	Q8IXJ9	0.65515
31986	P0C214	Q15696	0.22266
31987	P0C214	Q14186	1.1233
31988	P0C214	Q9UII2	0.3722
31989	P0C214	Q96EZ4	0.086276
31990	P0C214	Q9H8Y8	0.33912
31991	P0C214	P63173	0.74586
31992	P0C214	P50213	0.36996
31993	P0C214	P56211	0.31513
31994	P0C214	Q9UIF9	0.62049
31995	P0C214	Q9Y3V2	0.79434
31996	P0C214	Q8IYH5	0.34015

31997	P0C214	P13639	0.26858
31998	P0C214	Q12837	0.40216
31999	P0C214	P55895	0.64784
32000	P0C214	Q6PI98	0.59548
32001	P0C214	P49116	0.43538
32002	P0C214	Q01201	1.0054
32003	P0C214	A6NEQ2	0.086276
32004	P0C214	P21127	0.13913
32005	P0C214	Q9BRR8	0.95536
32006	P0C214	Q6R327	0.13569
32007	P0C214	A4D1E9	1.0277
32008	P0C214	Q6NVV0	0.21808
32009	P0C214	Q16881	0.31814
32010	P0C214	Q9UHR5	1.1504
32011	P0C214	Q92985	0.56445
32012	P0C214	Q14980	1.0715
32013	P0C214	Q07687	0.27929
32014	P0C214	Q8NF91	0.41576
32015	P0C214	Q9H1A4	0.79143
32016	P0C214	Q9H6Z9	0.60969
32017	P0C214	P47928	0.38525
32018	P0C214	Q8N831	0.99971
32019	P0C214	Q6PGQ1	0.28671
32020	P0C214	P37198	0.8857
32021	P0C214	Q9H5P4	0.35415
32022	P0C214	Q9HAF1	0.97362
32023	P0C214	Q99622	0.03893
32024	P0C214	Q9NPD3	0.49059
32025	P0C214	P22033	0.43563
32026	P0C214	Q00536	0.19271
32027	P0C214	P61960	0.1156
32028	P0C214	P49750	1.0633
32029	P0C214	Q8WW18	0.24937
32030	P0C214	Q9ULC6	0.78554
32031	P0C214	P36871	0.40644
32032	P0C214	Q3LI58	0.086276
32033	P0C214	Q9BQ70	1.2921
32034	P0C214	Q9P1G2	0.13455
32035	P0C214	A0JLT2	0.87283
32036	P0C214	Q8IZQ1	0.5198
32037	P0C214	Q9BWT1	0.63845
32038	P0C214	Q53ET0	1.6697
32039	P0C214	A6NJ88	0.73332
32040	P0C214	P41134	0.23252
32041	P0C214	Q9UKL3	1.1465
32042	P0C214	Q8TF74	0.33545
32043	P0C214	Q8IYB0	0.086276
32044	P0C214	Q96IT1	0.56958
32045	P0C214	P08621	0.39732
32046	P0C214	Q3MHD2	0.57472
32047	P0C214	Q9Y224	1.4745
32048	P0C214	Q75143	1.0375
32049	P0C214	P10124	0.11785
32050	P0C214	Q6ZR85	0.086276
32051	P0C214	H0YKK7	0.48478
32052	P0C214	Q13487	1.2391
32053	P0C214	Q96PS1	0.29049
32054	P0C214	Q2T9F4	0.072545
32055	P0C214	O60765	0.32997
32056	P0C214	Q15124	0.033126
32057	P0C214	Q13426	0.35313
32058	P0C214	P68871	0.26239
32059	P0C214	Q13084	1.0442
32060	P0C214	Q9BW27	0.77719
32061	P0C214	Q15173	0.38209
32062	P0C214	P15923	0.47982
32063	P0C214	Q06730	0.19269
32064	P0C214	Q9UJU3	0.22811
32065	P0C214	Q86UQ8	0.39389
32066	P0C214	Q5T319	0.086276
32067	P0C214	Q8N184	0.22977
32068	P0C214	P56192	0.37873
32069	P0C214	Q71F56	0.38743
32070	P0C214	Q9Y6H5	0.76013
32071	P0C214	P46783	1.5586
32072	P0C214	Q9UGU0	0.23348

32073	P0C214	Q8N8D1	0.43609
32074	P0C214	Q86Y25	0.31387
32075	P0C214	Q13425	0.29742
32076	P0C214	Q9HBL8	0.099501
32077	P0C214	Q03252	0.23127
32078	P0C214	Q6ZTY9	0.070546
32079	P0C214	Q6NS38	0.50418
32080	P0C214	P52294	1.0413
32081	P0C214	Q16831	0.014036
32082	P0C214	B4DXR9	0.5084
32083	P0C214	Q96QU4	0.39389
32084	P0C214	P14618	0.45048
32085	P0C214	O14613	0.1375
32086	P0C214	Q04726	0.94979
32087	P0C214	Q3LI72	0.086276
32088	P0C214	P57060	0.72659
32089	P0C214	Q9UBF2	0.22879
32090	P0C214	Q8IWS0	0.47654
32091	P0C214	P51948	0.38741
32092	P0C214	P25791	0.31334
32093	P0C214	Q8WXF1	1.0169
32094	P0C214	O75132	0.17062
32095	P0C214	Q6ZVF9	0.31356
32096	P0C214	P69892	0.3641
32097	P0C214	Q9Y6Y0	0.41558
32098	P0C214	Q5JY77	0.45292
32099	P0C214	Q9Y697	0.90092
32100	P0C214	Q6P6B1	0.24937
32101	P0C214	O95416	0.28328
32102	P0C214	O95487	0.66828
32103	P0C214	Q8N9Z2	0.10061
32104	P0C214	P99999	0.83707
32105	P0C214	Q8N319	1.1361
32106	P0C214	Q5VU43	0.83199
32107	P0C214	Q9H4B6	0.65874
32108	P0C214	Q53G59	0.41283
32109	P0C214	P12074	0.10088
32110	P0C214	Q9NXB0	0.71119
32111	P0C214	P51398	1.1597
32112	P0C214	Q14695	0.53664
32113	P0C214	Q96MH2	1.1907
32114	P0C214	Q96PV7	0.33967
32115	P0C214	O75373	0.3186
32116	P0C214	Q2M3C7	0.43199
32117	P0C214	Q5HYR2	0.48846
32118	P0C214	Q8TDB4	0.45177
32119	P0C214	Q8IYU4	0.01136
32120	P0C214	Q8WWC4	0.6804
32121	P0C214	Q8WTZ3	0.51532
32122	P0C214	Q8NEF9	0.65691
32123	P0C214	P61086	0.81164
32124	P0C214	Q9NZD4	0.31661
32125	P0C214	Q14103	0.98536
32126	P0C214	Q9NVV9	0.8539
32127	P0C214	P28370	0.4318
32128	P0C214	P62310	0.8299
32129	P0C214	Q1A5X6	0.24937
32130	P0C214	Q8N1Q8	0.54764
32131	P0C214	Q9UER7	0.93564
32132	P0C214	O94776	0.82888
32133	P0C214	Q04695	0.5582
32134	P0C214	O96017	0.51576
32135	P0C214	Q68DL7	0.086276
32136	P0C214	Q12980	0.46024
32137	P0C214	O14531	0.27125
32138	P0C214	Q14978	0.76981
32139	P0C214	Q96BD8	0.54859
32140	P0C214	Q96DM1	0.54955
32141	P0C214	Q92905	0.67954
32142	P0C214	Q6TGC4	0.16665
32143	P0C214	Q9BYR3	0.43378
32144	P0C214	Q66GS9	0.35321
32145	P0C214	Q14687	0.2675
32146	P0C214	Q9UHT4	0.086276
32147	P0C214	Q9Y221	0.78884
32148	P0C214	Q6ICB0	0.5964

32149	P0C214	Q96FV2	0.63341
32150	P0C214	Q14749	0.69988
32151	P0C214	Q92539	0.77275
32152	P0C214	O43542	0.57658
32153	P0C214	Q96AY2	0.71699
32154	P0C214	Q7Z5W3	0.69175
32155	P0C214	Q96KC9	0.5266
32156	P0C214	Q2VPK5	0.69192
32157	P0C214	Q9Y2H8	0.308
32158	P0C214	Q15929	0.47837
32159	P0C214	P49257	0.20014
32160	P0C214	F5H284	0.77514
32161	P0C214	P0CW24	0.1016
32162	P0C214	A1L168	0.24937
32163	P0C214	Q8IXT1	0.13103
32164	P0C214	P43897	1.0755
32165	P0C214	Q9UL42	0.77759
32166	P0C214	Q08AM6	0.21101
32167	P0C214	Q9NQR4	0.35124
32168	P0C214	Q07666	0.39649
32169	P0C214	Q8N4W9	0.3804
32170	P0C214	Q9BQ48	0.69281
32171	P0C214	A8MXY4	0.38021
32172	P0C214	O60756	0.086276
32173	P0C214	Q8TDR0	0.51273
32174	P0C214	Q14151	0.71493
32175	P0C214	Q96ME1	0.14478
32176	P0C214	A1L3X0	0.9999
32177	P0C214	Q9H8T0	0.34683
32178	P0C214	P49720	0.57213
32179	P0C214	P63165	0.83585
32180	P0C214	Q9UJY4	0.36629
32181	P0C214	Q9NZD8	0.8246
32182	P0C214	P82663	0.95947
32183	P0C214	Q86SX3	1.2405
32184	P0C214	Q6UXP7	0.19654
32185	P0C214	O95071	0.35618
32186	P0C214	P49336	0.31139
32187	P0C214	Q96PE6	0.22476
32188	P0C214	P28074	0.67951
32189	P0C214	Q3ZCX4	0.32628
32190	P0C214	Q96M63	0.16801
32191	P0C214	O43837	0.19359
32192	P0C214	Q9H6U6	0.74897
32193	P0C214	O00165	0.74454
32194	P0C214	Q68DI1	0.18003
32195	P0C214	Q9P0W2	0.58109
32196	P0C214	Q8N3L3	0.63311
32197	P0C214	O60225	0.17331
32198	P0C214	Q7Z6E9	0.38765
32199	P0C214	Q9HBM1	0.71266
32200	P0C214	Q8IYX8	0.1813
32201	P0C214	P59797	0.77906
32202	P0C214	O95865	0.46062
32203	P0C214	P21953	0.26948
32204	P0C214	Q8N488	0.36179
32205	P0C214	Q9HB07	0.28565
32206	P0C214	Q9H5H4	0.30495
32207	P0C214	Q6ZR03	0.040838
32208	P0C214	Q02556	0.42879
32209	P0C214	P34896	0.26602
32210	P0C214	Q9H9H5	0.3253
32211	P0C214	Q06587	0.79989
32212	P0C214	P17861	0.51955
32213	P0C214	Q8N9T2	0.086276
32214	P0C214	Q8N9R8	0.51525
32215	P0C214	Q00577	0.51347
32216	P0C214	Q9H0A0	0.37176
32217	P0C214	P26639	0.65617
32218	P0C214	Q9Y2Z0	0.50268
32219	P0C214	Q6P280	0.49708
32220	P0C214	Q9HCC9	0.44211
32221	P0C214	Q5VUA4	0.4662
32222	P0C214	Q16600	0.31013
32223	P0C214	P17014	0.26248
32224	P0C214	P56277	0.53705

32225	P0C214	Q9Y2X8	1.0001
32226	P0C214	Q9NR50	0.64197
32227	P0C214	Q14244	0.68304
32228	P0C214	Q8WYR1	0.35514
32229	P0C214	Q6RFH8	0.68558
32230	P0C214	O15453	0.54417
32231	P0C214	O15126	0.25478
32232	P0C214	Q9Y4B6	0.90852
32233	P0C214	Q9NTG7	0.51724
32234	P0C214	Q9NZF1	0.083641
32235	P0C214	C9J3I9	0.292
32236	P0C214	Q8WXQ3	0.83978
32237	P0C214	O95983	1.1043
32238	P0C214	Q9BTL4	0.15301
32239	P0C214	Q8N9K5	0.32792
32240	P0C214	P55769	0.84992
32241	P0C214	Q7Z2V1	0.086276
32242	P0C214	Q99933	0.87286
32243	P0C214	P82921	0.57295
32244	P0C214	Q6RUI8	0.09521
32245	P0C214	Q99459	1.0939
32246	P0C214	Q53GS7	0.78409
32247	P0C214	Q8NF99	0.27602
32248	P0C214	P62280	0.80437
32249	P0C214	Q9UHD4	0.73159
32250	P0C214	Q14137	0.78404
32251	P0C214	Q9P0J0	0.43829
32252	P0C214	Q9BPU9	0.15674
32253	P0C214	Q9UJW7	0.27328
32254	P0C214	Q96F83	0.58353
32255	P0C214	P0CG42	0.086276
32256	P0C214	Q8TBZ5	0.31075
32257	P0C214	Q9HBM6	0.57117
32258	P0C214	P61326	1.0616
32259	P0C214	Q9UNN5	0.65828
32260	P0C214	Q5XG85	0.086276
32261	P0C214	Q49A33	0.45025
32262	P0C214	P09104	0.068334
32263	P0C214	O14948	0.30761
32264	P0C214	A5YKK6	1.1794
32265	P0C214	Q9Y3M2	0.24311
32266	P0C214	Q99549	0.64513
32267	P0C214	Q9P2G4	0.24937
32268	P0C214	O15162	0.27629
32269	P0C214	Q8N2I2	0.32928
32270	P0C214	Q14139	0.65756
32271	P0C214	Q9HCH0	0.96081
32272	P0C214	O14604	0.75331
32273	P0C214	O75290	0.44452
32274	P0C214	P49918	0.59486
32275	P0C214	P49356	0.047482
32276	P0C214	Q5HYC2	0.069564
32277	P0C214	Q16851	0.57773
32278	P0C214	Q9BV19	0.019474
32279	P0C214	Q8TEQ6	0.87388
32280	P0C214	Q9BZE2	1.2832
32281	P0C214	Q9UNX3	1.2318
32282	P0C214	Q86U70	0.17927
32283	P0C214	Q96S59	0.99641
32284	P0C214	Q8WXW3	0.73126
32285	P0C214	Q8NAQ8	1.1012
32286	P0C214	Q92979	0.38504
32287	P0C214	Q9Y543	0.25442
32288	P0C214	O14832	0.13158
32289	P0C214	P52788	0.086363
32290	P0C214	P18887	0.57762
32291	P0C214	P13535	0.75898
32292	P0C214	Q8IWZ3	0.97786
32293	P0C214	Q96JF6	0.26157
32294	P0C214	Q9BRS8	0.53148
32295	P0C214	Q9BRG1	1.132
32296	P0C214	Q2KJ03	0.20944
32297	P0C214	Q9BZQ8	0.59087
32298	P0C214	Q96D98	0.63965
32299	P0C214	Q13356	0.65916
32300	P0C214	Q9GZW5	0.52081

32301	P0C214	P0CG48	0.39957
32302	P0C214	Q96DE9	0.022936
32303	P0C214	P53677	0.086155
32304	P0C214	P46100	0.52614
32305	P0C214	Q86TC9	0.36735
32306	P0C214	Q9UL46	0.5756
32307	P0C214	Q9NWW0	0.12649
32308	P0C214	Q9Y324	0.87996
32309	P0C214	P38919	0.3714
32310	P0C214	Q96RJ6	0.29396
32311	P0C214	Q9NX08	0.2675
32312	P0C214	O14641	0.68583
32313	P0C214	Q9UJT2	0.3824
32314	P0C214	Q63HM1	0.45642
32315	P0C214	O75570	0.27476
32316	P0C214	Q9BUX1	0.81568
32317	P0C214	Q9UKK6	0.59849
32318	P0C214	Q9UHA3	0.24199
32319	P0C214	A6NDZ8	0.086276
32320	P0C214	P61576	0.52497
32321	P0C214	Q08E93	0.086276
32322	P0C214	Q9BQK8	0.086627
32323	P0C214	O75901	0.59185
32324	P0C214	P0C7T5	0.40717
32325	P0C214	Q8IVM7	0.086276
32326	P0C214	Q9NWM0	0.26168
32327	P0C214	Q6P9A3	0.2834
32328	P0C214	Q6AW86	0.19987
32329	P0C214	O43513	1.1329
32330	P0C214	Q9Y3U8	1.0997
32331	P0C214	Q9UHC1	0.39429
32332	P0C214	Q9H321	0.57136
32333	P0C214	Q9P258	0.60363
32334	P0C214	Q86XR8	0.94766
32335	P0C214	Q9BQ52	0.2598
32336	P0C214	P60409	0.43378
32337	P0C214	P50402	0.19811
32338	P0C214	Q9UNA4	0.25785
32339	P0C214	Q9NSK7	0.73715
32340	P0C214	Q86VP1	0.46648
32341	P0C214	Q3LI62	0.086276
32342	P0C214	Q9BYN8	0.78465
32343	P0C214	O15488	0.24938
32344	P0C214	Q9UKL0	1.1364
32345	P0C214	Q6P050	0.61871
32346	P0C214	Q96L92	0.74625
32347	P0C214	Q5VZE5	0.24511
32348	P0C214	Q8TDR4	0.51912
32349	P0C214	P56377	0.31911
32350	P0C214	Q6P587	0.19481
32351	P0C214	Q9Y2H0	0.13406
32352	P0C214	P26358	0.31533
32353	P0C214	Q8NHS4	0.024185
32354	P0C214	O43812	0.16797
32355	P0C214	Q6ZS46	0.45901
32356	P0C214	P78396	0.89181
32357	P0C214	Q9NYP9	0.33435
32358	P0C214	Q8TCZ7	0.28363
32359	P0C214	Q6ZMW2	0.26428
32360	P0C214	Q15386	0.4942
32361	P0C214	Q9UNY4	0.4918
32362	P0C214	P25440	0.46691
32363	P0C214	Q5ZEY9	0.57641
32364	P0C214	Q15398	0.93536
32365	P0C214	Q8TF47	0.47199
32366	P0C214	P51826	0.33701
32367	P0C214	Q96KF2	0.086276
32368	P0C214	Q6MZT1	0.3594
32369	P0C214	O95336	0.45925
32370	P0C214	Q6NSI3	0.57744
32371	P0C214	Q92994	0.30174
32372	P0C214	Q9H074	0.55734
32373	P0C214	Q52MB2	0.97215
32374	P0C214	Q6P1L8	0.80978
32375	P0C214	Q9Y4R8	0.25003
32376	P0C214	Q6DD87	0.25423

32377	POC214	Q9BVL4	1.2159
32378	POC214	P04732	0.37691
32379	POC214	Q9NZH5	0.42405
32380	POC214	Q96JM7	0.36513
32381	POC214	O43189	0.3567
32382	POC214	Q12982	0.32043
32383	POC214	Q6P1J9	0.54427
32384	POC214	Q6ZNE5	0.35932
32385	POC214	Q86TU6	0.58851
32386	POC214	P30050	0.97266
32387	POC214	Q8TCY9	0.15908
32388	POC214	O95376	0.46582
32389	POC214	Q08J23	0.6249
32390	POC214	Q9NRX1	0.1273
32391	POC214	Q9BT25	0.36456
32392	POC214	Q15437	0.24217
32393	POC214	Q5VY09	0.41881
32394	POC214	P14653	0.23444
32395	POC214	P59990	0.43378
32396	POC214	Q9Y6B2	0.86293
32397	POC214	P51504	0.24105
32398	POC214	Q6MZP7	0.46638
32399	POC214	Q00422	1.2352
32400	POC214	Q7Z2E3	0.43113
32401	POC214	Q96N95	0.2319
32402	POC214	Q659C4	0.71354
32403	POC214	Q8WWQ0	0.60209
32404	POC214	Q9NRG9	0.94911
32405	POC214	O95999	0.19354
32406	POC214	P78385	0.51338
32407	POC214	E7EW31	0.086276
32408	POC214	Q8TF39	0.50227
32409	POC214	Q9BTP6	0.61393
32410	POC214	A6NLC8	1.1422
32411	POC214	O43615	0.24278
32412	POC214	Q68D10	0.24937
32413	POC214	Q86XE5	0.62026
32414	POC214	Q12933	0.55435
32415	POC214	P30281	0.63134
32416	POC214	Q9NVW2	0.36077
32417	POC214	Q9NVE4	0.009953
32418	POC214	P78347	0.51798
32419	POC214	Q9XRX5	0.5881
32420	POC214	Q8IZ40	0.4761
32421	POC214	O75145	0.36608
32422	POC214	Q9NZM4	0.89875
32423	POC214	P24539	0.28573
32424	POC214	O43791	0.55583
32425	POC214	Q9BX40	0.6527
32426	POC214	Q96MF7	0.45874
32427	POC214	P46939	0.51957
32428	POC214	Q6NSW5	0.97462
32429	POC214	Q86YP4	0.75439
32430	POC214	Q96SW2	0.51678
32431	POC214	Q6P2D0	0.24987
32432	POC214	P57081	0.84065
32433	POC214	Q13485	0.55872
32434	POC214	A8MUU9	0.19558
32435	POC214	Q9H6W3	0.49376
32436	POC214	P62753	1.143
32437	POC214	A8MV23	0.88945
32438	POC214	P62910	0.88548
32439	POC214	Q9Y2M5	0.8459
32440	POC214	Q9Y4P8	0.88383
32441	POC214	Q6UXR8	0.086276
32442	POC214	Q96LJ8	0.28315
32443	POC214	Q8ND04	0.74653
32444	POC214	Q13144	0.64546
32445	POC214	Q96B36	0.83413
32446	POC214	A6XGL0	0.54838
32447	POC214	Q9Y2G0	0.10244
32448	POC214	Q9UIF7	0.42042
32449	POC214	Q6PKG0	0.5625
32450	POC214	P62891	0.86977
32451	POC214	Q5JR98	0.55193
32452	POC214	Q9C0F3	0.3338



32453	P0C214	Q4W5G0	0.30991
32454	P0C214	Q56VL3	0.30515
32455	P0C214	Q96LW7	0.47944
32456	P0C214	O00154	0.12417
32457	P0C214	Q9H7X3	0.27785
32458	P0C214	Q5JTJ3	0.14014
32459	P0C214	Q96N22	0.49442
32460	P0C214	Q8NEU8	0.30745
32461	P0C214	H0UI37	0.25201
32462	P0C214	P61574	0.39132
32463	P0C214	A6NE82	0.086276
32464	P0C214	Q8NHZ8	1.2017
32465	P0C214	Q9UQC2	0.28399
32466	P0C214	Q9UI54	0.086276
32467	P0C214	P22531	0.37988
32468	P0C214	P0C841	0.086276
32469	P0C214	Q9BZQ4	0.21067
32470	P0C214	Q9NVP1	0.1915
32471	P0C214	Q9H1K6	0.015845
32472	P0C214	Q5BKY6	0.086276
32473	P0C214	Q15369	1.5991
32474	P0C214	Q8NBJ7	0.3156
32475	P0C214	Q6L9T8	0.38992
32476	P0C214	A9UHW6	0.6666
32477	P0C214	P55197	1.2877
32478	P0C214	Q9BWD1	0.35932
32479	P0C214	Q9NUL3	0.63665
32480	P0C214	Q9HCK1	0.55061
32481	P0C214	Q6VY07	0.64589
32482	P0C214	Q16658	0.15774
32483	P0C214	Q93073	0.88098
32484	P0C214	Q9NXE8	0.18174
32485	P0C214	Q86XL3	0.22216
32486	P0C214	P35658	1.1125
32487	P0C214	Q9NYT6	0.27328
32488	P0C214	Q96DM3	0.16532
32489	P0C214	Q03924	0.25652
32490	P0C214	Q9H8M7	0.79196
32491	P0C214	Q92917	0.83846
32492	P0C214	Q15572	0.8098
32493	P0C214	Q969X6	1.2587
32494	P0C214	Q86YW9	0.35832
32495	P0C214	Q9NX63	0.73816
32496	P0C214	Q5FWF6	0.47154
32497	P0C214	O43310	0.45248
32498	P0C214	Q6NW29	0.14187
32499	P0C214	Q96DF8	0.93067
32500	P0C214	Q8NEG4	0.33915
32501	P0C214	Q08209	0.44765
32502	P0C214	Q96MP8	0.23659
32503	P0C214	P18847	1.0913
32504	P0C214	Q9HD36	0.51734
32505	P0C214	Q9Y242	0.21761
32506	P0C214	Q9NYW8	0.25528
32507	P0C214	Q96QA5	0.18643
32508	P0C214	Q92556	0.28027
32509	P0C214	Q08AG5	0.49158
32510	P0C214	Q9BYE7	0.66866
32511	P0C214	H3BR10	0.086276
32512	P0C214	Q8N1N4	0.48861
32513	P0C214	Q92769	0.32455
32514	P0C214	Q12834	0.73852
32515	P0C214	Q6UWZ7	0.39658
32516	P0C214	Q6ZV65	0.42412
32517	P0C214	P0CW71	0.086276
32518	P0C214	Q8NEY8	0.67041
32519	P0C214	Q86TJ5	0.27573
32520	P0C214	Q9C073	0.53087
32521	P0C214	Q8TEV8	0.086276
32522	P0C214	Q96K31	0.088201
32523	P0C214	Q93100	0.31572
32524	P0C214	A8MUA0	0.22102
32525	P0C214	O15105	0.29711
32526	P0C214	Q14671	0.23385
32527	P0C214	P55199	0.99346
32528	P0C214	P60608	0.42865

32529	POC214	O60583	0.97467
32530	POC214	Q9ULW0	0.68923
32531	POC214	Q13243	0.76067
32532	POC214	Q9NZJ0	0.72961
32533	POC214	P0DMB2	0.47185
32534	POC214	Q9C005	0.59728
32535	POC214	Q14240	0.35167
32536	POC214	Q9H8G1	0.4838
32537	POC214	Q8N1L1	0.086276
32538	POC214	Q8IYL2	0.30768
32539	POC214	Q15468	0.17667
32540	POC214	P08670	0.14426
32541	POC214	Q86UP8	0.07874
32542	POC214	Q3LI67	0.086276
32543	POC214	P63151	0.54163
32544	POC214	Q8N6M9	0.092547
32545	POC214	Q9UPR3	1.1303
32546	POC214	Q9UH92	0.8561
32547	POC214	O94817	0.43971
32548	POC214	Q9UII4	0.52698
32549	POC214	Q9UBU8	0.68808
32550	POC214	Q8TAF3	0.60491
32551	POC214	Q8TD47	0.059237
32552	POC214	Q7L2H7	0.52441
32553	POC214	Q13522	0.15955
32554	POC214	Q5T0L3	1.1526
32555	POC214	Q13352	0.4324
32556	POC214	Q8N398	0.62513
32557	POC214	O43592	0.23888
32558	POC214	Q6GMV2	0.24139
32559	POC214	Q15427	0.32826
32560	POC214	P05543	0.85337
32561	POC214	Q5SW24	0.18476
32562	POC214	Q8N108	1.0706
32563	POC214	P63272	0.87661
32564	POC214	Q15544	1.0982
32565	POC214	P20749	0.36341
32566	POC214	Q9HAZ2	0.28646
32567	POC214	Q96AQ1	0.46157
32568	POC214	P83876	0.87357
32569	POC214	Q9H8X3	0.11647
32570	POC214	Q14691	0.35182
32571	POC214	Q53TS8	0.35248
32572	POC214	Q9P2I0	0.81636
32573	POC214	Q8N7M2	0.47643
32574	POC214	F5GYI3	0.83956
32575	POC214	P17028	0.61459
32576	POC214	Q9P2J8	0.36207
32577	POC214	O95780	0.52994
32578	POC214	P0CH99	0.56767
32579	POC214	Q7RTS9	0.84346
32580	POC214	Q99590	0.53845
32581	POC214	P98169	0.1226
32582	POC214	Q9UMX3	0.5209
32583	POC214	Q8N3X6	0.39103
32584	POC214	P49848	0.62685
32585	POC214	O43663	0.76155
32586	POC214	Q86WU2	0.2912
32587	POC214	Q15643	0.77327
32588	POC214	Q15329	1.1328
32589	POC214	Q8N490	0.56141
32590	POC214	Q8TAE8	1.0095
32591	POC214	Q8WZA8	0.086276
32592	POC214	P50222	0.47948
32593	POC214	Q53EZ4	0.55287
32594	POC214	Q9BUK6	0.13252
32595	POC214	Q6ZRV2	0.54636
32596	POC214	P0CL83	0.5567
32597	POC214	P28324	1.2626
32598	POC214	Q3MIS6	0.48849
32599	POC214	Q6P4R8	1.0423
32600	POC214	P54577	0.097249
32601	POC214	Q9GZY1	0.75882
32602	POC214	Q9UMS5	0.6044
32603	POC214	Q6P1N9	0.14098
32604	POC214	P16383	0.78534

32605	P0C214	Q9UKV0	0.39097
32606	P0C214	Q9HCU9	1.0349
32607	P0C214	Q6Q795	0.086276
32608	P0C214	P52597	0.54206
32609	P0C214	Q8WW38	0.48189
32610	P0C214	Q96G23	0.22158
32611	P0C214	O95067	0.56103
32612	P0C214	O00257	0.92826
32613	P0C214	Q9Y5J9	0.51271
32614	P0C214	Q8WU03	0.61009
32615	P0C214	Q15652	0.54348
32616	P0C214	Q8WXC3	0.71927
32617	P0C214	Q9UL45	0.19436
32618	P0C214	P82909	0.33048
32619	P0C214	Q9H0E2	0.26572
32620	P0C214	O60356	0.78098
32621	P0C214	Q9NVI1	0.55104
32622	P0C214	B4DU55	0.36913
32623	P0C214	Q9NQG5	1.0891
32624	P0C214	Q9BUW7	0.24937
32625	P0C214	Q9UF83	0.09009
32626	P0C214	Q9BZE7	0.24937
32627	P0C214	P15927	0.38459
32628	P0C214	Q9H8H0	0.16769
32629	P0C214	Q8NDW8	0.12047
32630	P0C214	Q9H160	0.40381
32631	P0C214	Q8TCS8	0.22468
32632	P0C214	Q9H2G9	0.31818
32633	P0C214	Q96A09	0.53384
32634	P0C214	Q9NQX6	0.31277
32635	P0C214	Q8IVM0	0.45292
32636	P0C214	Q5T8I9	0.23774
32637	P0C214	Q96LK0	0.13923
32638	P0C214	O43679	0.16536
32639	P0C214	Q96MG7	0.75044
32640	P0C214	O75152	0.36483
32641	P0C214	Q12872	0.75888
32642	P0C214	Q96RK1	0.64028
32643	P0C214	P25788	0.80504
32644	P0C214	Q3B726	0.1779
32645	P0C214	Q9UNS1	0.4393
32646	P0C214	P05546	0.92489
32647	P0C214	P0CW23	0.34056
32648	P0C214	O43502	0.30429
32649	P0C214	Q96E29	0.4175
32650	P0C214	P51815	0.23111
32651	P0C214	Q9NPA8	0.337
32652	P0C214	Q6ZS27	0.30372
32653	P0C214	Q86XN7	0.24937
32654	P0C214	Q9ULW8	0.35572
32655	P0C214	P62136	0.76937
32656	P0C214	Q9NZE8	0.5902
32657	P0C214	O14896	0.52071
32658	P0C214	P02100	0.3641
32659	P0C214	A2RTX5	0.6462
32660	P0C214	P51522	0.29177
32661	P0C214	P26998	0.63292
32662	P0C214	A6NFF2	0.28016
32663	P0C214	Q8N393	0.27688
32664	P0C214	Q9H9G7	0.77466
32665	P0C214	O43823	0.14904
32666	P0C214	P62495	0.78293
32667	P0C214	Q6ZN28	0.60837
32668	P0C214	Q8NDM7	0.41893
32669	P0C214	Q96TA1	0.35642
32670	P0C214	P24941	0.55321
32671	P0C214	O15382	0.19682
32672	P0C214	Q14157	0.26923
32673	P0C214	O15060	0.10637
32674	P0C214	O75334	0.44893
32675	P0C214	P40337	0.94418
32676	P0C214	Q86TP1	0.73946
32677	P0C214	Q9NXG0	0.058823
32678	P0C214	Q05519	0.68138
32679	P0C214	P0DL12	0.029386
32680	P0C214	P53804	0.82808

32681	P0C214	Q9BRJ6	0.38521
32682	P0C214	A6NCN2	0.50374
32683	P0C214	Q9BUG6	0.20198
32684	P0C214	Q9Y603	1.0981
32685	P0C214	Q5W0A0	0.22181
32686	P0C214	Q9UBS8	0.69228
32687	P0C214	P49321	0.61984
32688	P0C214	Q8WZ19	0.062476
32689	P0C214	P19623	0.20013
32690	P0C214	Q9Y5N5	0.26165
32691	P0C214	Q15714	0.7487
32692	P0C214	O14519	0.13753
32693	P0C214	I3L3R5	0.086276
32694	P0C214	Q99689	0.18776
32695	P0C214	Q8TDC0	0.41241
32696	P0C214	Q7RTV0	0.39038
32697	P0C214	Q2M238	0.028619
32698	P0C214	Q76FK4	0.38816
32699	P0C214	Q9HCK8	0.35227
32700	P0C214	Q0VG06	0.36754
32701	P0C214	P0C7V6	0.82922
32702	P0C214	Q15654	0.7055
32703	P0C214	Q8WVY7	0.27037
32704	P0C214	Q6ZMY9	0.49442
32705	P0C214	O95278	0.33927
32706	P0C214	O15014	1.0105
32707	P0C214	Q96IM9	0.087625
32708	P0C214	P02795	0.62734
32709	P0C214	Q9GZT9	0.38692
32710	P0C214	O95900	0.60201
32711	P0C214	E9PKD4	0.030304
32712	P0C214	Q9UN79	0.78384
32713	P0C214	Q9BQQ3	0.090327
32714	P0C214	Q13765	1.0401
32715	P0C214	Q96PC3	0.29607
32716	P0C214	Q9UIL1	0.69023
32717	P0C214	Q92925	0.50962
32718	P0C214	Q3SYG4	0.30863
32719	P0C214	P38646	0.72307
32720	P0C214	P58557	0.82995
32721	P0C214	Q8WXI9	0.41939
32722	P0C214	Q9ULD2	0.28916
32723	P0C214	P42574	0.24109
32724	P0C214	Q9UI43	0.70784
32725	P0C214	Q05BQ5	0.17355
32726	P0C214	P17480	0.98161
32727	P0C214	Q8N7H5	0.90526
32728	P0C214	Q6ZS52	0.086276
32729	P0C214	Q9BY65	0.091496
32730	P0C214	E7ETH6	0.30272
32731	P0C214	Q99618	0.93313
32732	P0C214	Q8IXQ4	0.24937
32733	P0C214	Q04323	0.29466
32734	P0C214	Q14019	0.16863
32735	P0C214	Q9Y6G3	0.23359
32736	P0C214	P50616	0.32981
32737	P0C214	Q9H6K5	0.24937
32738	P0C214	P36639	0.4373
32739	P0C214	P62269	0.93216
32740	P0C214	P19367	0.57747
32741	P0C214	Q13185	0.74369
32742	P0C214	Q9NVU7	0.35426
32743	P0C214	P63162	0.58486
32744	P0C214	Q16576	0.36325
32745	P0C214	P0C880	0.086276
32746	P0C214	O95886	0.49546
32747	P0C214	Q9BVC3	0.45439
32748	P0C214	Q2QGD7	0.66011
32749	P0C214	O15226	0.81227
32750	P0C214	O75376	0.34123
32751	P0C214	Q9BZZ5	0.35381
32752	P0C214	Q96AB3	0.8061
32753	P0C214	Q70Z53	0.59726
32754	P0C214	Q49AN0	0.15892
32755	P0C214	Q9Y4W2	0.77226
32756	P0C214	Q9Y6X9	0.28491

32757	POC214	Q96N58	0.32351
32758	POC214	P30043	0.25939
32759	POC214	A8MZA4	0.37738
32760	POC214	P0DI81	1.0612
32761	POC214	Q9UNM6	0.35179
32762	POC214	Q99550	0.2475
32763	POC214	Q9BYR2	0.43378
32764	POC214	Q96M11	0.69033
32765	POC214	P17020	0.23797
32766	POC214	Q8TE69	0.2675
32767	POC214	P19429	0.05525
32768	POC214	Q96KT6	0.086276
32769	POC214	Q9ULD0	0.55106
32770	POC214	P0CW00	0.69286
32771	POC214	Q9BRT7	0.086276
32772	POC214	Q15025	0.48785
32773	POC214	Q9ULX9	0.3337
32774	POC214	P04733	0.37691
32775	POC214	Q76KX8	0.50034
32776	POC214	P67775	0.72514
32777	POC214	A6NEV1	0.41187
32778	POC214	Q5UE93	0.61634
32779	POC214	Q6ZN01	0.54531
32780	POC214	Q86TB9	0.93199
32781	POC214	Q8NFB3	0.97357
32782	POC214	Q96MR7	1.1597
32783	POC214	P10809	0.22074
32784	POC214	Q9BUJ2	1.1245
32785	POC214	Q15459	0.63881
32786	POC214	P0C7T7	0.086276
32787	POC214	Q08AI8	0.24937
32788	POC214	Q9NRJ2	0.086276
32789	POC214	Q99848	0.21813
32790	POC214	Q9BZW7	0.24633
32791	POC214	O00231	0.61566
32792	POC214	P41567	0.87517
32793	POC214	O60264	0.22187
32794	POC214	Q9BPX1	0.45612
32795	POC214	P19532	0.67715
32796	POC214	Q15796	0.55508
32797	POC214	P48634	0.79434
32798	POC214	Q9NZ52	0.34155
32799	POC214	Q6NVH7	0.48272
32800	POC214	P42771	0.54051
32801	POC214	Q56P03	0.47093
32802	POC214	Q9H019	0.32651
32803	POC214	Q9NSC2	0.26183
32804	POC214	Q96I24	0.41501
32805	POC214	Q9Y5J6	0.36952
32806	POC214	Q9UHI6	0.43781
32807	POC214	Q9H0G5	0.56828
32808	POC214	Q8TE76	0.14739
32809	POC214	Q69YI7	0.81041
32810	POC214	P61579	0.39132
32811	POC214	Q969J2	0.25668
32812	POC214	Q9P0W5	0.53306
32813	POC214	Q9ULM2	0.19723
32814	POC214	P51816	0.38179
32815	POC214	P12882	0.89031
32816	POC214	Q96T21	0.60665
32817	POC214	P11441	0.62536
32818	POC214	Q9H9L3	0.45919
32819	POC214	Q14192	0.66464
32820	POC214	P62324	0.65354
32821	POC214	O15318	0.5551
32822	POC214	O00204	0.62852
32823	POC214	Q6UUUV9	1.5188
32824	POC214	O60930	0.33473
32825	POC214	O75717	0.30282
32826	POC214	Q6L8G9	0.086276
32827	POC214	P0C5Y4	0.081911
32828	POC214	P41223	0.09131
32829	POC214	Q6P2H3	0.44208
32830	POC214	P62318	0.89139
32831	POC214	Q9NRF8	0.33618
32832	POC214	O43593	0.1174

32833	P0C214	O15525	0.26634
32834	P0C214	Q86V71	0.39888
32835	P0C214	Q8NDV7	0.2895
32836	P0C214	Q9UMY1	0.8529
32837	P0C214	Q96CS3	0.55353
32838	P0C214	Q9Y3M9	0.21809
32839	P0C214	P22674	0.25109
32840	P0C214	Q7Z6B0	0.51616
32841	P0C214	P17027	0.25925
32842	P0C214	Q9BRP1	0.81409
32843	P0C214	Q86TU7	0.25096
32844	P0C214	Q9BYQ0	0.43378
32845	P0C214	P25963	0.61404
32846	P0C214	Q5VSD8	0.00049291
32847	P0C214	Q86UQ0	0.27943
32848	P0C214	A8MQ03	0.67894
32849	P0C214	Q96KN1	0.35932
32850	P0C214	Q8IY85	0.28537
32851	P0C214	A6NLX3	0.10536
32852	P0C214	Q01543	0.29355
32853	P0C214	O60381	0.16353
32854	P0C214	O43598	0.19551
32855	P0C214	Q95411	0.086276
32856	P0C214	Q96RL7	0.91327
32857	P0C214	P59998	0.17995
32858	P0C214	Q96GC6	1.0332
32859	P0C214	Q99687	0.3352
32860	P0C214	Q99594	1.0319
32861	P0C214	E5RJ46	0.086276
32862	P0C214	P41182	0.1413
32863	P0C214	Q9Y6X8	0.59208
32864	P0C214	P35244	0.50116
32865	P0C214	O95429	0.31074
32866	P0C214	Q96K30	0.67982
32867	P0C214	Q8N0U6	0.086276
32868	P0C214	O60711	0.35812
32869	P0C214	Q6P9G9	0.23921
32870	P0C214	O15360	0.70005
32871	P0C214	Q03923	0.52248
32872	P0C214	O60294	0.31329
32873	P0C214	P14324	0.52869
32874	P0C214	Q3SY00	0.61615
32875	P0C214	Q5SV97	0.41108
32876	P0C214	Q9H1B7	0.9375
32877	P0C214	P07311	0.36285
32878	P0C214	Q9BXJ9	0.6323
32879	P0C214	Q5VZL5	0.78761
32880	P0C214	P07093	0.85514
32881	P0C214	Q96FF7	0.086276
32882	P0C214	Q8TAV0	0.53941
32883	P0C214	Q99504	0.48251
32884	P0C214	Q9NRR4	0.49796
32885	P0C214	Q9Y5B9	0.27318
32886	P0C214	Q06323	1.1025
32887	P0C214	Q5VX52	0.086185
32888	P0C214	Q9UMX2	0.35692
32889	P0C214	Q86SG2	0.23549
32890	P0C214	Q9NP71	0.50949
32891	P0C214	Q9UQR0	0.17965
32892	P0C214	Q8N972	0.3804
32893	P0C214	Q9P206	0.38939
32894	P0C214	P59037	0.35211
32895	P0C214	Q9NS73	0.6955
32896	P0C214	Q9NQ50	0.55152
32897	P0C214	Q9H3J6	0.66547
32898	P0C214	P11388	0.1662
32899	P0C214	Q9BQY4	0.72354
32900	P0C214	Q9BVT8	0.21352
32901	P0C214	Q9HCN2	0.086276
32902	P0C214	P17098	0.48478
32903	P0C214	Q8IV48	0.032814
32904	P0C214	Q6ZT77	0.34811
32905	P0C214	Q9H446	0.2675
32906	P0C214	Q8NI27	0.45307
32907	P0C214	P21506	0.34363
32908	P0C214	Q8IY81	0.72951

32909	P0C214	P46781	1.2594
32910	P0C214	Q93009	0.38099
32911	P0C214	Q9Y608	0.31299
32912	P0C214	P61578	0.35559
32913	P0C214	Q96KQ4	0.85509
32914	P0C214	O43541	0.648
32915	P0C214	Q6ZUU3	0.086276
32916	P0C214	Q96P71	0.50392
32917	P0C214	Q5SY13	0.086276
32918	P0C214	Q13868	0.77531
32919	P0C214	P30305	0.36614
32920	P0C214	Q9Y291	0.32421
32921	P0C214	Q3SYA9	0.26303
32922	P0C214	Q7L1Q6	0.33495
32923	P0C214	Q86X83	0.31698
32924	P0C214	Q5VVC0	0.20454
32925	P0C214	Q8IYB9	0.39888
32926	P0C214	Q5T5Y3	0.32395
32927	P0C214	Q8TD16	0.15813
32928	P0C214	Q3LI63	0.086276
32929	P0C214	Q69YL0	0.086276
32930	P0C214	O15379	0.50392
32931	P0C214	Q9UN30	0.20918
32932	P0C214	P25786	0.68368
32933	P0C214	Q8TAP6	0.90358
32934	P0C214	Q8NEZ2	0.58758
32935	P0C214	P06733	0.99403
32936	P0C214	Q01081	0.52298
32937	P0C214	Q96RL1	0.68581
32938	P0C214	Q5BJE1	0.20816
32939	P0C214	P60372	0.43378
32940	P0C214	Q9NZU7	0.33704
32941	P0C214	Q9HB75	0.56561
32942	P0C214	Q01892	0.26437
32943	P0C214	Q96PK6	0.73985
32944	P0C214	Q0PNE2	0.6967
32945	P0C214	C9J6K1	0.15595
32946	P0C214	Q9Y2R9	0.89012
32947	P0C214	Q96DB5	0.46336
32948	P0C214	Q6P1X5	0.81819
32949	P0C214	O15205	0.51248
32950	P0C214	Q9P1T7	1.3609
32951	P0C214	A4GXA9	0.72268
32952	P0C214	Q96RT8	0.27841
32953	P0C214	Q96JK9	0.91321
32954	P0C214	Q8WW14	0.17012
32955	P0C214	P43268	0.37639
32956	P0C214	O75533	0.22879
32957	P0C214	Q6AI39	0.34291
32958	P0C214	Q96B01	0.4585
32959	P0C214	Q96KR7	0.21557
32960	P0C214	P19012	0.58756
32961	P0C214	Q99619	0.59086
32962	P0C214	O14508	0.3583
32963	P0C214	Q53G26	0.70167
32964	P0C214	Q15004	0.85109
32965	P0C214	Q9Y2D1	1.0656
32966	P0C214	Q96RS0	0.76948
32967	P0C214	Q96MY7	0.88594
32968	P0C214	Q96CM4	0.18195
32969	P0C214	Q5T4T6	0.89936
32970	P0C214	Q9Y2G2	0.44567
32971	P0C214	Q9UHY7	0.3744
32972	P0C214	Q8N6T7	0.59621
32973	P0C214	Q8TC76	1.3916
32974	P0C214	Q96DI7	0.6329
32975	P0C214	Q9P1D8	0.086276
32976	P0C214	O75167	0.13415
32977	P0C214	Q969U7	0.52781
32978	P0C214	Q9UBW7	0.70238
32979	P0C214	Q8IVD9	0.35289
32980	P0C214	H3BTG2	0.36066
32981	P0C214	Q9H322	0.45745
32982	P0C214	O75475	1.4309
32983	P0C214	Q14690	0.73547
32984	P0C214	Q16829	0.31349

32985	P0C214	Q5XKK7	0.091777
32986	P0C214	O43324	1.2876
32987	P0C214	Q9NRF9	0.06667
32988	P0C214	Q9NX95	0.30869
32989	P0C214	Q9Y5U2	0.2347
32990	P0C214	P13073	0.1999
32991	P0C214	Q3LHN2	0.086276
32992	P0C214	Q9NYV6	0.54205
32993	P0C214	Q5T440	0.082247
32994	P0C214	Q9UNH5	0.5993
32995	P0C214	Q8TE02	1.1782
32996	P0C214	Q8TAA5	0.49939
32997	P0C214	Q9P2M1	0.45292
32998	P0C214	P01008	0.88945
32999	P0C214	P33240	0.53033
33000	P0C214	Q16514	0.74487
33001	P0C214	Q9UKC9	0.55612
33002	P0C214	Q9BXF6	0.48768
33003	P0C214	O95251	0.8289
33004	P0C214	Q96EV8	0.28489
33005	P0C214	Q9H211	0.71816
33006	P0C214	Q2M3D2	0.23707
33007	P0C214	Q4LE28	0.70372
33008	P0C214	P25063	0.086276
33009	P0C214	Q9Y3F4	0.92514
33010	P0C214	Q8IXH6	1.2435
33011	P0C214	Q7RTU3	0.25688
33012	P0C214	Q8WYA1	0.26709
33013	P0C214	P17035	0.26437
33014	P0C214	Q9HA77	0.57449
33015	P0C214	P62736	0.10604
33016	P0C214	P82970	0.56739
33017	P0C214	Q13616	0.61705
33018	P0C214	Q2M2W7	0.24937
33019	P0C214	Q9NR77	0.30831
33020	P0C214	Q9HCM9	0.61615
33021	P0C214	Q17R31	0.23495
33022	P0C214	O14618	0.54518
33023	P0C214	Q8TBB1	0.75447
33024	P0C214	A3KN83	0.78325
33025	P0C214	Q8NDN9	0.55976
33026	P0C214	P0DMC3	0.086276
33027	P0C214	Q5EBL4	0.52769
33028	P0C214	Q8WVP5	0.73452
33029	P0C214	P0C7X5	0.33639
33030	P0C214	Q7Z7K6	0.39311
33031	P0C214	Q9NW08	0.090663
33032	P0C214	Q9Y3B9	0.38699
33033	P0C214	Q6NVY1	0.14712
33034	P0C214	Q66K80	0.086276
33035	P0C214	O95202	0.18935
33036	P0C214	P04259	0.25397
33037	P0C214	Q9P2B4	0.23817
33038	P0C214	Q8IYD1	0.59363
33039	P0C214	Q8IX07	0.28951
33040	P0C214	Q96CV9	0.41465
33041	P0C214	Q58FF3	0.99507
33042	P0C214	Q9ULX6	0.49779
33043	P0C214	Q58FF6	0.8863
33044	P0C214	P78559	0.63761
33045	P0C214	Q96CN0	0.086276
33046	P0C214	I6L9F6	0.15831
33047	P0C214	Q8WTP8	0.099752
33048	P0C214	Q9H607	0.43421
33049	P0C214	Q8WXU2	0.71941
33050	P0C214	A6NIN4	0.086276
33051	P0C214	Q6ZVC0	0.78573
33052	P0C214	P48378	0.242
33053	P0C214	P38117	0.25913
33054	P0C214	Q9UJL9	0.24964
33055	P0C214	Q8N5M1	0.48453
33056	P0C214	O43752	0.083834
33057	P0C214	Q3ZCV2	0.24937
33058	P0C214	Q8TES7	0.46846
33059	P0C214	Q86X51	0.11224
33060	P0C214	Q9BRT3	0.11128



33061	P0C214	Q9H4B0	0.26979
33062	P0C214	A2RUB1	0.24937
33063	P0C214	Q9NV56	0.6156
33064	P0C214	P49588	0.17539
33065	P0C214	Q9H9Z2	0.66934
33066	P0C214	O00193	0.73154
33067	P0C214	P12755	0.13003
33068	P0C214	Q6U7Q0	0.31247
33069	P0C214	A4D1E1	0.39345
33070	P0C214	P62879	0.47369
33071	P0C214	A6NKH3	0.50471
33072	P0C214	O94850	0.2103
33073	P0C214	Q13127	0.48619
33074	P0C214	A8MU10	0.086276
33075	P0C214	Q9ULZ2	0.76617
33076	P0C214	Q9C075	0.44878
33077	P0C214	P0DKL9	0.63546
33078	P0C214	Q96GW9	0.43891
33079	P0C214	Q14934	0.48123
33080	P0C214	Q9NX55	0.41348
33081	P0C214	Q4LE39	0.96843
33082	P0C214	Q9UBF1	0.74972
33083	P0C214	Q8NDW4	0.2817
33084	P0C214	Q9UG56	0.32034
33085	P0C214	P13994	0.38384
33086	P0C214	P23921	0.22202
33087	P0C214	Q9BSG1	0.38137
33088	P0C214	P53041	0.73417
33089	P0C214	Q8IU60	1.0385
33090	P0C214	Q6P1M9	0.27253
33091	P0C214	Q01850	0.84761
33092	P0C214	O75940	0.57763
33093	P0C214	Q9BYC9	0.74818
33094	P0C214	O75155	0.78447
33095	P0C214	Q7Z4U5	0.90801
33096	P0C214	Q8N1B4	0.3943
33097	P0C214	Q8WV99	0.17284
33098	P0C214	Q9NXW9	0.27869
33099	P0C214	Q15650	0.71783
33100	P0C214	Q96LR7	0.60714
33101	P0C214	P62875	0.30567
33102	P0C214	P28069	0.60416
33103	P0C214	Q8TB05	0.24937
33104	P0C214	P30740	0.96136
33105	P0C214	Q9NSQ0	0.45677
33106	P0C214	Q2VY69	0.35336
33107	P0C214	O60763	0.3319
33108	P0C214	Q96P63	0.92484
33109	P0C214	Q8WUW1	0.2436
33110	P0C214	Q9Y252	0.45847
33111	P0C214	A8MU76	0.6505
33112	P0C214	O75346	0.44074
33113	P0C214	Q86YI8	0.4013
33114	P0C214	A2RRD8	0.32699
33115	P0C214	Q5W1A9	0.52643
33116	P0C214	Q96BP3	0.68301
33117	P0C214	Q8NDZ9	0.086276
33118	P0C214	Q4G0N7	0.42506
33119	P0C214	P43359	0.84363
33120	P0C214	Q6ZNG0	0.29348
33121	P0C214	Q5RHP9	0.29767
33122	P0C214	P13984	0.59207
33123	P0C214	Q15072	0.21906
33124	P0C214	P20226	0.89918
33125	P0C214	Q93075	0.65392
33126	P0C214	Q969H0	0.70874
33127	P0C214	A6NJB7	0.81462
33128	P0C214	Q96JS3	0.2637
33129	P0C214	P13682	0.33929
33130	P0C214	Q12959	0.83302
33131	P0C214	Q9H2G4	0.65596
33132	P0C214	Q99871	0.39644
33133	P0C214	Q9BTC8	0.49724
33134	P0C214	Q96D03	0.26939
33135	P0C214	Q9UHV2	1.4859
33136	P0C214	P61254	1.219

33137	P0C214	Q96AQ6	0.55892
33138	P0C214	Q5SZD4	0.48517
33139	P0C214	Q15424	0.76988
33140	P0C214	Q86W11	0.22221
33141	P0C214	Q1W6H9	1.1281
33142	P0C214	Q13227	1.0011
33143	P0C214	Q12874	0.46832
33144	P0C214	Q8N443	0.13274
33145	P0C214	Q6NSZ9	0.17892
33146	P0C214	Q14511	0.55715
33147	P0C214	P28072	0.61611
33148	P0C214	A6NL82	0.029641
33149	P0C214	O95777	0.57804
33150	P0C214	Q75QN2	0.54729
33151	P0C214	Q92890	0.90679
33152	P0C214	Q3YBR2	0.41251
33153	P0C214	A8MTA8	0.078024
33154	P0C214	Q86V42	0.28965
33155	P0C214	A8MWA4	0.46621
33156	P0C214	Q14160	0.46978
33157	P0C214	O75534	0.11145
33158	P0C214	Q14653	0.60616
33159	P0C214	Q5TC12	0.43922
33160	P0C214	Q8IZX4	0.28016
33161	P0C214	Q86Y97	0.42516
33162	P0C214	Q9NVK5	0.22364
33163	P0C214	Q8N4B4	0.26516
33164	P0C214	O00505	1.024
33165	P0C214	Q9UI36	0.36065
33166	P0C214	Q9Y4X0	0.33461
33167	P0C214	Q9UBP6	1.0762
33168	P0C214	Q6P2C8	0.94853
33169	P0C214	Q8IXQ5	0.31982
33170	P0C214	Q5SXM1	0.37755
33171	P0C214	Q9P2Y5	0.34574
33172	P0C214	O75494	0.62892
33173	P0C214	P09972	0.76774
33174	P0C214	O75531	0.96435
33175	P0C214	Q96ND8	0.51762
33176	P0C214	Q5TA31	0.56978
33177	P0C214	Q9H7B2	0.95185
33178	P0C214	P54727	0.65065
33179	P0C214	O75529	0.52768
33180	P0C214	Q6NXT1	0.30992
33181	P0C214	Q9BSJ6	0.54635
33182	P0C214	Q8IVT2	0.58821
33183	P0C214	Q32MH5	0.23755
33184	P0C214	Q9H2K2	0.35441
33185	P0C214	O75943	0.20224
33186	P0C214	Q9BSD3	0.17731
33187	P0C214	Q86UU0	0.97844
33188	P0C214	Q9UDY2	0.87332
33189	P0C214	Q6ZNA4	0.63005
33190	P0C214	Q14397	0.78708
33191	P0C214	Q96D15	0.29312
33192	P0C214	Q9H4T2	0.18742
33193	P0C214	P25815	0.52999
33194	P0C214	P32780	0.67521
33195	P0C214	Q9Y4A5	0.75689
33196	P0C214	Q7Z7A3	0.80015
33197	P0C214	Q8TED0	0.298
33198	P0C214	Q5JTH9	0.3548
33199	P0C214	Q9UQF2	0.54982
33200	P0C214	Q9UKV8	0.88366
33201	P0C214	P41208	0.61173
33202	P0C214	O75360	0.29152
33203	P0C214	P60413	0.43378
33204	P0C214	Q7L5D6	0.93611
33205	P0C214	Q9H5X1	0.17854
33206	P0C214	A6NJ08	0.064098
33207	P0C214	P17040	0.62728
33208	P0C214	Q96NB3	0.3826
33209	P0C214	P51116	0.54062
33210	P0C214	O95639	0.39073
33211	P0C214	Q9H0E9	0.33017
33212	P0C214	Q5TAP6	0.35516

33213	P0C214	Q6GPH4	0.46674
33214	P0C214	P16455	0.21681
33215	P0C214	Q8N7W2	0.43958
33216	P0C214	Q6V9R5	0.42705
33217	P0C214	P62841	0.9238
33218	P0C214	Q9P0J1	0.13574
33219	P0C214	Q8N9Z9	0.50158
33220	P0C214	O00512	0.75022
33221	P0C214	Q6PB30	0.46641
33222	P0C214	Q8TAA3	0.4743
33223	P0C214	Q8WVC0	0.97947
33224	P0C214	Q9H840	0.99018
33225	P0C214	O96007	0.7898
33226	P0C214	Q9Y2X9	0.53258
33227	P0C214	P11387	0.60677
33228	P0C214	Q14140	1.4757
33229	P0C214	P12883	0.75898
33230	P0C214	Q9BTE7	0.60234
33231	P0C214	P58317	0.27826
33232	P0C214	Q9UDV6	0.51321
33233	P0C214	Q96C00	0.33732
33234	P0C214	P10074	0.31788
33235	P0C214	Q92845	0.26055
33236	P0C214	Q15287	1.0845
33237	P0C214	Q8WXS3	0.69946
33238	P0C214	Q13536	0.086276
33239	P0C214	P24928	0.77244
33240	P0C214	Q86YC2	0.54164
33241	P0C214	Q9P1J3	0.086276
33242	P0C214	O43918	0.95958
33243	P0C214	P0C5K6	0.086276
33244	P0C214	O94903	0.47486
33245	P0C214	Q68EA5	0.47643
33246	P0C214	Q99496	0.45512
33247	P0C214	A8MTZ0	0.1603
33248	P0C214	P36402	0.42047
33249	P0C214	Q9Y3E7	0.64729
33250	P0C214	P62244	0.98797
33251	P0C214	Q8N535	0.088172
33252	P0C214	Q8NAB5	0.086276
33253	P0C214	Q9NP64	0.21669
33254	P0C214	Q9HD26	0.77018
33255	P0C214	Q8TAK5	0.42006
33256	P0C214	Q9C0D0	0.39152
33257	P0C214	P59022	0.3707
33258	P0C214	P52747	0.73937
33259	P0C214	Q8IYX0	0.48999
33260	P0C214	Q9NRX2	0.44761
33261	P0C214	Q9BRT2	0.37704
33262	P0C214	O75582	0.24024
33263	P0C214	P26651	0.67734
33264	P0C214	O60784	0.36937
33265	P0C214	Q9BQI5	0.10759
33266	P0C214	P10242	0.8584
33267	P0C214	Q494R0	0.086276
33268	P0C214	Q9UHV7	0.51898
33269	P0C214	Q8N9Z0	0.44153
33270	P0C214	P62987	0.79237
33271	P0C214	P09622	0.28034
33272	P0C214	Q6XD76	0.25897
33273	P0C214	O14593	0.61102
33274	P0C214	Q9NPI8	0.76317
33275	P0C214	Q14135	0.39389
33276	P0C214	Q8N0U4	0.21899
33277	P0C214	Q9NV72	0.46031
33278	P0C214	P57077	0.888
33279	P0C214	Q9ULV5	0.27177
33280	P0C214	P16333	0.72469
33281	P0C214	Q9BXF3	0.56161
33282	P0C214	P86480	0.086276
33283	P0C214	P62826	0.78322
33284	P0C214	Q6ZU65	0.23697
33285	P0C214	Q6IN85	0.32771
33286	P0C214	A8MYR8	0.0043805
33287	P0C214	Q5VIY5	0.44782
33288	P0C214	Q6P3X8	0.15946

33289	P0C214	Q5W5X9	0.14652
33290	P0C214	Q9BZ23	0.48441
33291	P0C214	Q12983	0.11502
33292	P0C214	P50453	0.86267
33293	P0C214	Q5THR3	0.33132
33294	P0C214	Q8N9K3	0.24937
33295	P0C214	Q8WUB8	0.33863
33296	P0C214	Q5XKR9	0.41022
33297	P0C214	Q9Y462	0.5484
33298	P0C214	A2RUQ5	0.040743
33299	P0C214	P08727	0.58756
33300	P0C214	Q9UEG4	0.31744
33301	P0C214	Q6ZSR6	0.21846
33302	P0C214	Q9H410	0.87927
33303	P0C214	Q15935	0.37571
33304	P0C214	P22670	0.76033
33305	P0C214	Q9H9T3	0.81439
33306	P0C214	P39880	0.54376
33307	P0C214	P42773	0.33019
33308	P0C214	Q6NUP7	0.38579
33309	P0C214	P59991	0.51868
33310	P0C214	O60806	0.37581
33311	P0C214	Q9UBD0	1.0077
33312	P0C214	Q96LR2	0.81251
33313	P0C214	Q2TAZ0	0.27384
33314	P0C214	P62633	0.67853
33315	P0C214	Q15750	0.52154
33316	P0C214	Q9UKT9	0.41654
33317	P0C214	P36508	0.084997
33318	P0C214	Q92558	0.34547
33319	P0C214	P43243	0.16507
33320	P0C214	Q7L945	0.29427
33321	P0C214	O60671	0.48918
33322	P0C214	P54687	0.026156
33323	P0C214	Q15532	0.96198
33324	P0C214	O14598	0.57136
33325	P0C214	Q07343	0.23506
33326	P0C214	Q7Z7F7	0.67358
33327	P0C214	Q6ZRC1	0.086276
33328	P0C214	Q04637	0.65365
33329	P0C214	O60832	0.68238
33330	P0C214	A6NHR8	0.086276
33331	P0C214	A6NEY8	0.093148
33332	P0C214	O43345	0.37211
33333	P0C214	P31943	0.48963
33334	P0C214	O60563	1.4294
33335	P0C214	Q9BYQ7	0.5539
33336	P0C214	Q9H4P4	0.34154
33337	P0C214	Q96A04	0.62777
33338	P0C214	Q9Y294	0.9473
33339	P0C214	P23497	0.83367
33340	P0C214	Q96LY2	0.46157
33341	P0C214	Q8IUR6	0.8769
33342	P0C214	O96000	0.48484
33343	P0C214	Q5TBE3	0.31838
33344	P0C214	O94992	1.2742
33345	P0C214	Q92843	0.52171
33346	P0C214	Q6IE81	0.95387
33347	P0C214	P26447	0.3001
33348	P0C214	Q9BX26	1.0938
33349	P0C214	Q99816	0.36203
33350	P0C214	O75665	0.69877
33351	P0C214	O15392	0.24338
33352	P0C214	Q9Y2R5	0.49263
33353	P0C214	Q32P41	0.46131
33354	P0C214	Q2M2Z5	0.50871
33355	P0C214	Q8IWD4	0.24937
33356	P0C214	Q5T8A7	0.68461
33357	P0C214	Q9Y6G5	0.2675
33358	P0C214	Q9NXV6	0.9208
33359	P0C214	O43747	0.63335
33360	P0C214	Q92499	0.41382
33361	P0C214	Q6IPR1	0.3532
33362	P0C214	P43356	0.85082
33363	P0C214	Q96NL0	0.065242
33364	P0C214	Q96E11	0.6058

33365	P0C214	O75920	0.9744
33366	P0C214	P05412	0.79058
33367	P0C214	P62304	0.80392
33368	P0C214	Q9H8M2	0.10184
33369	P0C214	Q9H1Y0	0.45363
33370	P0C214	Q8N9B5	0.68432
33371	P0C214	Q6P444	0.32651
33372	P0C214	Q8WU90	0.83217
33373	P0C214	Q9UMQ3	0.48029
33374	P0C214	Q9Y2G7	0.54106
33375	P0C214	Q07020	1.0005
33376	P0C214	Q8WY41	0.3771
33377	P0C214	Q8N5R6	0.4662
33378	P0C214	Q9H6D7	0.37012
33379	P0C214	P17041	0.21141
33380	P0C214	O95476	0.26252
33381	P0C214	Q8NB50	0.38935
33382	P0C214	O95073	1.0428
33383	P0C214	Q99456	0.58756
33384	P0C214	Q9UPY8	0.85326
33385	P0C214	Q96I25	0.30011
33386	P0C214	A8MX80	0.64099
33387	P0C214	Q14669	0.46506
33388	P0C214	Q9NYB0	0.69582
33389	P0C214	Q5JU67	0.040911
33390	P0C214	Q96HQ0	0.29646
33391	P0C214	Q9BY89	0.020693
33392	P0C214	Q8WVJ9	0.48352
33393	P0C214	Q5T5A4	0.31123
33394	P0C214	O00442	0.44231
33395	P0C214	Q96CG3	0.27276
33396	P0C214	Q96B23	0.81535
33397	P0C214	Q9H3R5	0.55279
33398	P0C214	Q86WV1	0.49754
33399	P0C214	Q9NV92	0.055995
33400	P0C214	Q96E09	0.3662
33401	P0C214	Q6NX45	0.30702
33402	P0C214	E9PQ53	0.63248
33403	P0C214	P49711	0.16868
33404	P0C214	Q86YA3	0.59896
33405	P0C214	Q6PF05	0.36663
33406	P0C214	Q9NQE9	0.49557
33407	P0C214	Q15323	0.51477
33408	P0C214	Q5MNV8	0.28354
33409	P0C214	Q14781	0.63654
33410	P0C214	Q9NV88	0.54729
33411	P0C214	Q9HD47	0.23677
33412	P0C214	Q8N7Z2	0.37738
33413	P0C214	K7EIQ3	0.79811
33414	P0C214	Q49A88	0.27024
33415	P0C214	Q8NFZ5	0.87411
33416	P0C214	Q01826	0.58294
33417	P0C214	Q7Z5K2	0.68035
33418	P0C214	Q13106	0.23468
33419	P0C214	P0C853	0.086276
33420	P0C214	Q9NUP7	0.87683
33421	P0C214	Q9BQ69	0.49304
33422	P0C214	Q02447	0.45465
33423	P0C214	Q709C8	0.57595
33424	P0C214	Q99766	0.51027
33425	P0C214	Q12857	0.27602
33426	P0C214	Q15297	0.59744
33427	P0C214	Q69383	0.39132
33428	P0C214	Q8N2G8	0.23317
33429	P0C214	Q9BX70	0.48486
33430	P0C214	Q9NZM5	0.44348
33431	P0C214	O75410	0.64976
33432	P0C214	Q96RU7	0.45509
33433	P0C214	P42677	0.98345
33434	P0C214	P12036	0.38243
33435	P0C214	P62945	0.97266
33436	P0C214	Q9HBL0	0.24053
33437	P0C214	Q9Y2J8	0.54022
33438	P0C214	Q8N8E1	0.20727
33439	P0C214	O75436	0.62502
33440	P0C214	O15160	0.12842

33441	P0C214	Q9H2U1	0.32166
33442	P0C214	O60291	0.57788
33443	P0C214	Q9UFV3	0.033817
33444	P0C214	O95182	0.079041
33445	P0C214	Q9P000	0.24456
33446	P0C214	Q96IR3	0.54568
33447	P0C214	O75822	0.8284
33448	P0C214	Q9NVD3	0.045664
33449	P0C214	Q6NVV1	0.67347
33450	P0C214	Q9BXW9	0.68317
33451	P0C214	Q8IXR5	0.053772
33452	P0C214	O75474	0.87479
33453	P0C214	Q14738	0.67984
33454	P0C214	Q9NZI6	0.44388
33455	P0C214	Q5VIR6	0.74498
33456	P0C214	P06454	0.45843
33457	P0C214	Q8IX90	0.49546
33458	P0C214	P28749	1.2273
33459	P0C214	Q7Z7L8	0.96197
33460	P0C214	A6NEY3	0.49852
33461	P0C214	O95273	0.84805
33462	P0C214	P09012	0.37897
33463	P0C214	Q14683	0.37808
33464	P0C214	Q92831	0.74541
33465	P0C214	O75419	0.79388
33466	P0C214	Q8N8Z8	0.27596
33467	P0C214	Q9Y535	0.22129
33468	P0C214	P42025	0.39308
33469	P0C214	O95793	0.24773
33470	P0C214	A8MTB1	0.086276
33471	P0C214	Q53H82	0.18546
33472	P0C214	P17021	0.25339
33473	P0C214	Q8N9Y4	0.92562
33474	P0C214	Q5VT40	0.0082096
33475	P0C214	Q9P0M9	0.52504
33476	P0C214	Q6A162	0.44438
33477	P0C214	O75448	0.46602
33478	P0C214	Q719H9	0.6512
33479	P0C214	P18146	0.57844
33480	P0C214	Q8N3U4	0.56999
33481	P0C214	Q16534	0.19934
33482	P0C214	P46776	1.2375
33483	P0C214	P05198	0.80304
33484	P0C214	O43504	0.18781
33485	P0C214	O94973	0.42066
33486	P0C214	Q9NUU7	0.034031
33487	P0C214	Q96NT1	1.1026
33488	P0C214	Q8TEE9	1.0506
33489	P0C214	Q9P1Q0	0.28478
33490	P0C214	Q9HC44	1.2873
33491	P0C214	Q15631	0.62458
33492	P0C214	Q96JL9	0.30874
33493	P0C214	Q9H204	1.0798
33494	P0C214	P0C867	0.11824
33495	P0C214	P0C7X2	0.5413
33496	P0C214	K9M1U5	0.086276
33497	P0C214	Q8WTR7	0.56686
33498	P0C214	Q8N187	0.5916
33499	P0C214	Q9UL12	0.098104
33500	P0C214	Q6ZVN8	0.21759
33501	P0C214	Q8TEL6	0.41567
33502	P0C214	Q9H4A5	0.9562
33503	P0C214	Q8IXQ9	0.425
33504	P0C214	Q9NS25	0.51904
33505	P0C214	Q8IU81	0.26741
33506	P0C214	Q96IU4	0.40636
33507	P0C214	P07327	0.20793
33508	P0C214	Q9P2M7	0.38406
33509	P0C214	A6PW82	0.47991
33510	P0C214	P0CG00	0.1961
33511	P0C214	Q9H9E1	0.25458
33512	P0C214	O15164	0.29774
33513	P0C214	Q96G01	0.20196
33514	P0C214	P58340	0.30689
33515	P0C214	P15621	0.48541
33516	P0C214	Q99436	0.79871

33517	P0C214	Q13126	0.22518
33518	P0C214	Q8IWC1	0.50827
33519	P0C214	Q0D2J5	0.20334
33520	P0C214	P0CJ78	0.2154
33521	P0C214	Q13114	0.4559
33522	P0C214	O43447	0.71554
33523	P0C214	Q9GZM3	0.13654
33524	P0C214	O95602	0.58036
33525	P0C214	Q9Y6Q5	0.32439
33526	P0C214	Q02577	0.51259
33527	P0C214	Q66K41	0.84301
33528	P0C214	Q15773	0.73775
33529	P0C214	Q9ULN7	0.73395
33530	P0C214	Q8WVM7	0.64167
33531	P0C214	Q9NPI1	0.92568
33532	P0C214	Q2VPJ9	0.24937
33533	P0C214	Q9BVN2	0.45737
33534	P0C214	Q8NG31	0.6456
33535	P0C214	P24864	0.61261
33536	P0C214	Q5PRF9	0.59004
33537	P0C214	Q8N196	0.54042
33538	P0C214	P30279	0.69011
33539	P0C214	Q9UJX4	0.84553
33540	P0C214	Q9NZ63	0.35391
33541	P0C214	Q9BZA5	0.69161
33542	P0C214	P04156	0.43564
33543	P0C214	Q8IVC4	0.28452
33544	P0C214	P20962	0.26936
33545	P0C214	P10909	0.20397
33546	P0C214	Q8N3J5	0.33472
33547	P0C214	A0JNW5	0.39623
33548	P0C214	Q8N2N9	0.2654
33549	P0C214	Q6ZRP0	0.24937
33550	P0C214	P63172	0.7201
33551	P0C214	Q96MX3	0.28348
33552	P0C214	Q01831	0.54984
33553	P0C214	Q9H9Q2	0.17821
33554	P0C214	Q14584	0.28722
33555	P0C214	Q9H009	0.36249
33556	P0C214	P05120	0.96136
33557	P0C214	Q9UBQ0	0.48492
33558	P0C214	O75391	0.63212
33559	P0C214	Q96T23	0.62292
33560	P0C214	Q15629	0.32243
33561	P0C214	O75489	0.3365
33562	P0C214	Q5T7V8	1.5025
33563	P0C214	Q3SY52	0.21984
33564	P0C214	Q8WY54	0.89464
33565	P0C214	Q16822	0.25585
33566	P0C214	Q14576	0.34084
33567	P0C214	Q9NQX1	0.40468
33568	P0C214	Q9P013	0.45853
33569	P0C214	O94925	0.70937
33570	P0C214	P27797	0.4823
33571	P0C214	Q8TC84	0.35391
33572	P0C214	P07438	0.39612
33573	P0C214	Q15853	0.54331
33574	P0C214	Q5VZ66	0.35824
33575	P0C214	A6NK75	0.34824
33576	P0C214	Q96CB8	0.43122
33577	P0C214	P0DMB1	0.26625
33578	P0C214	Q86U86	0.8966
33579	P0C214	Q9C0D7	0.42931
33580	P0C214	O15504	0.59018
33581	P0C214	Q3KQU3	0.61269
33582	P0C214	Q8IYA8	0.24937
33583	P0C214	Q6ZN06	0.45138
33584	P0C214	Q9H1I8	0.36007
33585	P0C214	Q13439	0.90077
33586	P0C214	Q99574	0.88947
33587	P0C214	Q6P1L5	1.0139
33588	P0C214	Q9NQ48	0.19586
33589	P0C214	Q6UB98	0.35391
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33591	P0C214	Q9H7E2	0.34443
33592	P0C214	P31949	0.32709

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33594	P0C214	Q03060	0.52776
33595	P0C214	Q7Z401	0.22663
33596	P0C214	Q8IWE2	0.49223
33597	P0C214	Q7Z460	0.34361
33598	P0C214	Q9BVC6	0.19331
33599	P0C214	Q9GZR2	0.21122
33600	P0C214	P57071	0.14964
33601	P0C214	Q6ZRV3	0.086276
33602	P0C214	Q15759	0.33133
33603	P0C214	Q96H79	0.6144
33604	P0C214	Q9NPC3	0.16311
33605	P0C214	O60885	0.66225
33606	P0C214	Q8N7B6	0.59464
33607	P0C214	Q8IVN3	0.71798
33608	P0C214	Q6IQ21	0.40859
33609	P0C214	Q9UM82	0.80665
33610	P0C214	Q9P031	1.0428
33611	P0C214	Q8N0T1	0.53577
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33613	P0C214	Q9BUH6	0.19108
33614	P0C214	Q9UFN0	0.74795
33615	P0C214	Q6ZSN1	0.13871
33616	P0C214	Q96JB3	0.073138
33617	P0C214	O95751	0.50209
33618	P0C214	P40425	0.51924
33619	P0C214	Q9BV73	0.56883
33620	P0C214	P07902	0.533
33621	P0C214	Q96EY4	0.34484
33622	P0C214	Q6ZV50	0.242
33623	P0C214	Q16526	0.37801
33624	P0C214	Q6P589	0.50014
33625	P0C214	Q8IYJ2	0.36021
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33627	P0C214	Q9UKD2	0.14212
33628	P0C214	Q04725	0.79823
33629	P0C214	Q5T1J5	0.75974
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33631	P0C214	Q156A1	0.086276
33632	P0C214	P68543	0.26781
33633	P0C214	Q13895	0.71328
33634	P0C214	O60238	0.28581
33635	P0C214	P17036	0.27059
33636	P0C214	O43309	0.25555
33637	P0C214	Q9BYG5	0.62295
33638	P0C214	P54840	0.585
33639	P0C214	P39748	0.28328
33640	P0C214	P09497	0.32443
33641	P0C214	Q6PF18	0.083408
33642	P0C214	P61981	0.58197
33643	P0C214	Q9BQC6	0.77055
33644	P0C214	Q9HCI5	0.6102
33645	P0C214	P17039	0.25925
33646	P0C214	Q02410	0.39461
33647	P0C214	Q2V2M9	0.2235
33648	P0C214	O60506	0.40216
33649	P0C214	A2IDD5	0.43955
33650	P0C214	Q3ZCQ8	0.082079
33651	P0C214	Q6J272	0.68201
33652	P0C214	Q1ZZU3	0.61065
33653	P0C214	Q9NX65	0.25006
33654	P0C214	Q86SY8	0.086276
33655	P0C214	Q6PEX3	0.19225
33656	P0C214	Q99440	0.32966
33657	P0C214	Q6ZTN6	0.096911
33658	P0C214	P0CG47	0.40707
33659	P0C214	P52815	0.64719
33660	P0C214	Q8N1I0	0.27762
33661	P0C214	Q8N4M7	0.69839
33662	P0C214	O95394	0.98672
33663	P0C214	Q9Y5J7	0.20935
33664	P0C214	P04053	0.20376
33665	P0C214	P60370	0.43378
33666	P0C214	Q107X0	0.37948
33667	P0C214	Q8TAF7	0.47199
33668	P0C214	P98182	0.24118



33669	P0C214	P0C7V5	0.36588
33670	P0C214	Q9UDV7	0.25203
33671	P0C214	P25787	0.73413
33672	P0C214	O14521	0.33686
33673	P0C214	Q9NYZ3	0.26785
33674	P0C214	P55327	0.33348
33675	P0C214	Q99814	0.33962
33676	P0C214	P09086	0.23659
33677	P0C214	Q86TG7	0.37712
33678	P0C214	P61583	0.49709
33679	P0C214	Q9BTL3	0.51487
33680	P0C214	P62241	0.85239
33681	P0C214	Q99471	0.88113
33682	P0C214	Q96IU2	0.87705
33683	P0C214	O76009	0.5102
33684	P0C214	P36873	0.82274
33685	P0C214	Q86XI8	0.53004
33686	P0C214	Q86XK2	0.81636
33687	P0C214	P46777	1.4465
33688	P0C214	P82932	0.47259
33689	P0C214	Q9NZZ3	0.92422
33690	P0C214	Q14154	0.4753
33691	P0C214	P60673	0.11573
33692	P0C214	P21980	0.28109
33693	P0C214	Q8TEA1	0.5372
33694	P0C214	Q6P387	0.35391
33695	P0C214	Q8NB42	0.49679
33696	P0C214	Q9NZQ3	0.656
33697	P0C214	Q460N3	0.30706
33698	P0C214	Q9UKK3	0.54991
33699	P0C214	Q01658	0.28533
33700	P0C214	Q6PJG2	0.67589
33701	P0C214	Q9BZK7	0.86112
33702	P0C214	Q9HCG8	0.15326
33703	P0C214	Q12765	0.21681
33704	P0C214	Q8NAP1	0.24937
33705	P0C214	Q9H900	0.51187
33706	P0C214	Q96H40	0.50851
33707	P0C214	Q15010	0.48251
33708	P0C214	A6NKF1	0.74013
33709	P0C214	Q96I99	0.41969
33710	P0C214	Q92830	0.71186
33711	P0C214	Q15006	0.36193
33712	P0C214	Q9H0U9	0.89424
33713	P0C214	Q13956	0.56758
33714	P0C214	Q96FJ2	0.77617
33715	P0C214	Q58FF8	0.99507
33716	P0C214	Q9GZR1	0.38815
33717	P0C214	O14893	0.78947
33718	P0C214	Q6ZRT6	0.24937
33719	P0C214	Q6NXP2	0.75769
33720	P0C214	Q9BSW2	0.71253
33721	P0C214	Q9H469	0.2627
33722	P0C214	Q52M93	0.22841
33723	P0C214	Q5FBB7	0.68952
33724	P0C214	O14734	0.35552
33725	P0C214	Q96GN5	0.86356
33726	P0C214	O14558	0.74433
33727	P0C214	Q9UP83	1.2351
33728	P0C214	Q8IXJ6	0.28155
33729	P0C214	Q53SZ7	0.24937
33730	P0C214	Q9BRD0	0.62937
33731	P0C214	P61582	0.79382
33732	P0C214	Q12796	1.43
33733	P0C214	Q15054	0.61668
33734	P0C214	A1A4G5	0.086276
33735	P0C214	Q13615	0.23774
33736	P0C214	Q9NQ31	0.62755
33737	P0C214	Q96ST3	0.68028
33738	P0C214	Q96LQ0	0.46952
33739	P0C214	A5PLN7	0.24937
33740	P0C214	P23526	0.3058
33741	P0C214	Q8NEG2	0.35192
33742	P0C214	Q8IYX7	0.57704
33743	P0C214	Q9UBL0	0.24413
33744	P0C214	Q96HB5	0.19033

33745	P0C214	Q75L30	0.086276
33746	P0C214	O60925	0.037262
33747	P0C214	P55884	0.41809
33748	P0C214	Q96N06	0.30206
33749	P0C214	P0C860	0.30774
33750	P0C214	Q13416	0.45245
33751	P0C214	P09629	0.79789
33752	P0C214	Q96NU7	0.1987
33753	P0C214	Q8N8L2	0.22593
33754	P0C214	Q86Y13	0.37241
33755	P0C214	A6NNF4	0.38021
33756	P0C214	P10599	0.56097
33757	P0C214	Q9H9Y2	0.20342
33758	P0C214	Q9HB58	0.248
33759	P0C214	P02792	0.19676
33760	P0C214	Q9BTV5	0.31057
33761	P0C214	P60006	0.31033
33762	P0C214	Q8N0Y7	1.128
33763	P0C214	Q5DJT8	0.19717
33764	P0C214	Q96IT6	0.086276
33765	P0C214	Q59GR2	0.086281
33766	P0C214	A6NG73	0.22305
33767	P0C214	Q8N4S0	0.24937
33768	P0C214	O75396	0.14369
33769	P0C214	Q9Y2Y0	0.95835
33770	P0C214	Q8IYA6	0.50029
33771	P0C214	Q6NUR6	0.57378
33772	P0C214	Q96SL8	0.2298
33773	P0C214	Q8WW33	0.46486
33774	P0C214	Q8IUI4	0.20131
33775	P0C214	Q9NUP1	0.72531
33776	P0C214	Q9Y5B0	0.56063
33777	P0C214	P24534	0.75105
33778	P0C214	Q9Y6M1	0.49792
33779	P0C214	P0CG12	0.99949
33780	P0C214	Q9BTD1	0.21386
33781	P0C214	P11161	0.42026
33782	P0C214	Q9NVR2	0.92769
33783	P0C214	O00399	0.15703
33784	P0C214	Q3ZLR7	0.82922
33785	P0C214	Q2NKK9	0.24937
33786	P0C214	Q13888	0.49337
33787	P0C214	Q9BQ95	1.1318
33788	P0C214	Q6ZRF7	0.19865
33789	P0C214	Q9HAY2	0.071673
33790	P0C214	Q96Q06	0.6385
33791	P0C214	O75150	0.54618
33792	P0C214	Q86X02	0.30705
33793	P0C214	Q9UJW8	0.22359
33794	P0C214	P83731	0.97266
33795	P0C214	Q96JM3	0.32627
33796	P0C214	Q9Y6X3	0.87223
33797	P0C214	Q6ULP2	0.63782
33798	P0C214	P13647	0.90353
33799	P0C214	Q15038	1.2759
33800	P0C214	Q8IW50	0.24937
33801	P0C214	A8MWP6	0.086276
33802	P0C214	Q8WZA9	0.24937
33803	P0C214	Q9NQS7	0.81933
33804	P0C214	A6NKN8	0.76896
33805	P0C214	Q8IXM2	0.17121
33806	P0C214	P42765	0.25069
33807	P0C214	Q9Y6D6	0.61115
33808	P0C214	Q9NZH4	0.87884
33809	P0C214	Q9GZX7	0.26206
33810	P0C214	P09661	0.60157
33811	P0C214	Q5VWP3	0.58342
33812	P0C214	Q9UKZ1	0.45005
33813	P0C214	Q969M7	0.58719
33814	P0C214	Q5SNT6	0.66607
33815	P0C214	Q9UHJ9	0.37191
33816	P0C214	Q96L21	0.68931
33817	P0C214	O75251	0.33116
33818	P0C214	P45973	0.7101
33819	P0C214	Q9UMR2	0.082082
33820	P0C214	Q9UQ35	0.37275

33821	P0C214	Q8IYN6	0.3662
33822	P0C214	Q6ZMV8	0.48577
33823	P0C214	Q5VTQ0	0.17233
33824	P0C214	Q5T619	0.30008
33825	P0C214	Q92973	1.2214
33826	P0C214	Q96AE4	0.49652
33827	P0C214	H0Y354	0.38992
33828	P0C214	Q9NR09	0.36631
33829	P0C214	Q8IYE1	0.053963
33830	P0C214	O15265	1.0319
33831	P0C214	Q96PQ6	0.48657
33832	P0C214	Q7Z406	0.69922
33833	P0C214	Q9UGK8	0.6542
33834	P0C214	O43290	1.0049
33835	P0C214	Q7RTT3	0.17331
33836	P0C214	Q16143	0.3927
33837	P0C214	Q9ULE0	0.091717
33838	P0C214	Q6ZR93	0.086276
33839	P0C214	A1L4L8	0.4125
33840	P0C214	Q9UI09	0.070267
33841	P0C214	A1L443	0.72088
33842	P0C214	Q9UFF9	0.66635
33843	P0C214	P35268	0.88053
33844	P0C214	O15305	0.26421
33845	P0C214	Q12888	0.67522
33846	P0C214	Q9NSD4	0.31357
33847	P0C214	Q9BYJ9	0.55796
33848	P0C214	Q9UJX3	0.75025
33849	P0C214	Q86VY4	0.50415
33850	P0C214	P23511	1.0642
33851	P0C214	Q9UKY7	0.56233
33852	P0C214	Q7Z6Z7	0.43158
33853	P0C214	Q8N4J0	0.50031
33854	P0C214	O75113	0.85053
33855	P0C214	Q68CZ6	0.37012
33856	P0C214	Q7RTS7	0.26387
33857	P0C214	Q8NHY6	0.39171
33858	P0C214	Q8IW36	0.46372
33859	P0C214	Q9NP97	0.39635
33860	P0C214	P45984	0.35917
33861	P0C214	Q9HCK5	0.77466
33862	P0C214	Q8N7J2	0.89019
33863	P0C214	Q14684	0.4878
33864	P0C214	Q8WWY6	0.39389
33865	P0C214	Q8TF01	0.53941
33866	P0C214	Q5JSJ4	1.0959
33867	P0C214	Q9ULW3	0.83291
33868	P0C214	Q3LIE5	0.52579
33869	P0C214	Q8N8K9	0.06839
33870	P0C214	Q14585	0.2817
33871	P0C214	Q5T160	1.0723
33872	P0C214	P80294	0.66345
33873	P0C214	Q96DZ1	0.27989
33874	P0C214	Q6Y7W6	0.48252
33875	P0C214	Q8NC51	0.72853
33876	P0C214	A6NIH7	0.27271
33877	P0C214	Q5BJF6	0.3726
33878	P0C214	P78549	0.27508
33879	P0C214	Q8N7B1	0.49032
33880	P0C214	Q03111	1.2388
33881	P0C214	Q99717	0.4478
33882	P0C214	P47897	0.4361
33883	P0C214	O60664	0.39961
33884	P0C214	P49593	0.28002
33885	P0C214	Q86WV6	0.074115
33886	P0C214	Q4KN68	0.24284
33887	P0C214	O14978	0.37861
33888	P0C214	P56182	0.75131
33889	P0C214	O75956	0.11463
33890	P0C214	P15036	0.6608
33891	P0C214	P17987	0.26979
33892	P0C214	Q9BYR4	0.43378
33893	P0C214	P16415	0.35861
33894	P0C214	Q6ZQV5	0.3804
33895	P0C214	Q9HC62	0.39405
33896	P0C214	Q8TAB7	0.51977

33897	POC214	Q9UIE0	0.28997
33898	POC214	Q2M218	0.3048
33899	POC214	Q9UHB9	0.51262
33900	POC214	Q0D2K3	0.6528
33901	POC214	O95155	0.27231
33902	POC214	Q711Q0	0.086276
33903	POC214	Q5T1B1	0.866
33904	POC214	Q9UI56	0.086276
33905	POC214	Q969I3	0.52792
33906	POC214	Q8IXS2	0.047977
33907	POC214	Q9BW92	0.57851
33908	POC214	A6NK58	0.28219
33909	POC214	Q9NR48	0.26481
33910	POC214	Q8N0Z3	0.41835
33911	POC214	Q8N1G2	0.33067
33912	POC214	Q53FN2	0.37462
33913	POC214	Q8WWK9	0.22913
33914	POC214	O15144	0.1299
33915	POC214	Q9HCE5	0.18808
33916	POC214	P78560	0.52187
33917	POC214	A8MVJ9	0.30033
33918	POC214	Q96AJ1	1.0229
33919	POC214	Q9BW60	0.9999
33920	POC214	Q8N6Y0	0.5159
33921	POC214	Q5T1N1	0.68629
33922	POC214	P62424	1.203
33923	POC214	P29372	0.38038
33924	POC214	P52434	0.27719
33925	POC214	O43325	0.96582
33926	POC214	Q08945	1.1115
33927	POC214	P46013	0.14105
33928	POC214	Q969V6	1.4006
33929	POC214	Q8IXH7	1.1808
33930	POC214	Q6PI48	0.79471
33931	POC214	O14862	0.56155
33932	POC214	Q8N7K0	0.3804
33933	POC214	Q04864	1.2118
33934	POC214	Q9HCG1	0.38886
33935	POC214	P80723	0.1826
33936	POC214	Q8WXE9	0.48082
33937	POC214	P51861	0.10702
33938	POC214	Q08211	0.32001
33939	POC214	Q9NSP4	0.13336
33940	POC214	Q6PD74	0.19238
33941	POC214	Q9NZV7	0.57377
33942	POC214	O95905	0.75523
33943	POC214	P61966	0.26698
33944	POC214	Q9NS26	0.43141
33945	POC214	Q8IYN2	1.1271
33946	POC214	P04731	0.39612
33947	POC214	Q5TEC3	0.31024
33948	POC214	O60293	0.080137
33949	POC214	O14972	0.33957
33950	POC214	Q9BZF9	0.67138
33951	POC214	Q8IY63	0.47091
33952	POC214	Q8IYW4	0.15062
33953	POC214	P30419	0.34909
33954	POC214	P60866	0.88422
33955	POC214	A6NI87	0.50529
33956	POC214	P40763	0.32555
33957	POC214	P0CZ20	0.16767
33958	POC214	O00401	0.73048
33959	POC214	Q9H9D4	0.51321
33960	POC214	A8MUZ8	0.49972
33961	POC214	O60260	0.58967
33962	POC214	Q8WZ33	0.82382
33963	POC214	Q8WU39	0.24933
33964	POC214	Q9UQ84	0.21716
33965	POC214	Q8WVM0	0.57741
33966	POC214	Q9H2W6	0.29728
33967	POC214	O60504	0.62137
33968	POC214	Q0VGE8	0.25018
33969	POC214	Q96IP4	0.52367
33970	POC214	O96004	0.37455
33971	POC214	Q12972	0.80624
33972	POC214	Q8WYA6	0.67674

33973	P0C214	Q9H668	0.19446
33974	P0C214	C9JBD0	0.54414
33975	P0C214	Q6VN20	0.42327
33976	P0C214	Q9Y5A7	0.71298
33977	P0C214	Q96BT7	0.46992
33978	P0C214	Q9UIV8	0.72749
33979	P0C214	Q5TG92	0.1367
33980	P0C214	Q86SQ7	0.92082
33981	P0C214	O76083	0.25757
33982	P0C214	P13533	0.75898
33983	P0C214	Q9H5J8	0.90001
33984	P0C214	Q9BYC8	0.87415
33985	P0C214	Q8N6M0	0.26013
33986	P0C214	Q08ER8	0.36913
33987	P0C214	O00472	0.55977
33988	P0C214	O95218	0.51588
33989	P0C214	O95190	0.77645
33990	P0C214	Q7RTT6	0.22639
33991	P0C214	Q8N4Q1	0.041166
33992	P0C214	P62857	0.70631
33993	P0C214	Q9Y675	0.39389
33994	P0C214	Q9UHJ3	0.28639
33995	P0C214	Q9NWB6	0.39389
33996	P0C214	Q7RTU0	0.25688
33997	P0C214	P27540	0.35413
33998	P0C214	P49910	0.65862
33999	P0C214	Q8IYB7	0.076374
34000	P0C214	A2A368	0.019596
34001	P0C214	Q5VT06	0.50552
34002	P0C214	Q9UJA5	0.86333
34003	P0C214	P09496	0.33182
34004	P0C214	Q9BR84	0.49186
34005	P0C214	Q9GZN7	0.21691
34006	P0C214	Q86V15	0.37778
34007	P0C214	Q8WWM7	0.62701
34008	P0C214	O95997	0.90513
34009	P0C214	P52292	1.001
34010	P0C214	Q9H2K0	0.3468
34011	P0C214	Q8N0V3	0.56001
34012	P0C214	Q15274	0.097524
34013	P0C214	P12270	0.6247
34014	P0C214	O00743	0.85609
34015	P0C214	Q14602	0.27801
34016	P0C214	Q9NWZ5	0.12733
34017	P0C214	Q5MJ70	0.28575
34018	P0C214	Q9NRH1	0.24733
34019	P0C214	Q8TB69	0.44782
34020	P0C214	O60884	0.96549
34021	P0C214	Q9NVN8	0.46564
34022	P0C214	Q96GD0	0.13483
34023	P0C214	P50221	0.47943
34024	P0C214	Q6GYQ0	0.20884
34025	P0C214	Q8NA03	0.14126
34026	P0C214	P27694	0.4952
34027	P0C214	Q99543	0.58019
34028	P0C214	Q9NUW8	0.6285
34029	P0C214	Q8NDT2	0.93649
34030	P0C214	Q9NXR7	0.31845
34031	P0C214	Q9HA58	0.086276
34032	P0C214	Q9H0B3	0.30112
34033	P0C214	Q68DK2	0.66508
34034	P0C214	Q7L8J4	0.14927
34035	P0C214	O75971	0.84223
34036	P0C214	Q6KB66	0.23837
34037	P0C214	Q9UK73	0.73148
34038	P0C214	Q5D0E6	1.0107
34039	P0C214	A6NKD9	0.94604
34040	P0C214	O15069	0.20112
34041	P0C214	Q8WXF5	0.49301
34042	P0C214	P52758	0.53837
34043	P0C214	Q71F23	0.67257
34044	P0C214	Q96N03	0.2675
34045	P0C214	Q9NPJ3	0.062823
34046	P0C214	O95848	0.43378
34047	P0C214	Q9NWV4	0.61671
34048	P0C214	Q9H707	0.28531

34049	P0C214	Q92600	1.3113
34050	P0C214	Q9HD40	0.56404
34051	P0C214	Q6P1R3	0.59757
34052	P0C214	Q96N38	0.47128
34053	P0C214	Q9H8V8	0.086276
34054	P0C214	Q9HBT7	0.34442
34055	P0C214	Q68CP9	0.44846
34056	P0C214	Q8WWL7	0.8534
34057	P0C214	Q9HAW0	0.40164
34058	P0C214	Q9UPW6	0.58435
34059	P0C214	P08151	0.32768
34060	P0C214	Q9BTA9	0.88855
34061	P0C214	P16118	0.25574
34062	P0C214	Q92804	0.19205
34063	P0C214	Q96SY0	0.020266
34064	P0C214	A4D2B0	0.41379
34065	P0C214	Q96B49	0.30985
34066	P0C214	Q9UFB7	0.27102
34067	P0C214	Q5U5X0	0.60065
34068	P0C214	P07197	0.60517
34069	P0C214	Q6P1N0	0.14168
34070	P0C214	O15040	0.2675
34071	P0C214	Q9UKV3	0.70183
34072	P0C214	Q13435	0.73695
34073	P0C214	Q92614	0.055196
34074	P0C214	Q8IXS0	0.24937
34075	P0C214	Q9NYJ1	1.0119
34076	P0C214	O14727	0.29522
34077	P0C214	O94916	0.12024
34078	P0C214	P23508	0.32816
34079	P0C214	Q3B820	0.30618
34080	P0C214	Q9BRJ7	0.50589
34081	P0C214	Q712K3	0.82252
34082	P0C214	Q9HA90	0.24937
34083	P0C214	Q96H20	0.93314
34084	P0C214	Q86X55	0.76531
34085	P0C214	Q14974	1.0028
34086	P0C214	Q00839	0.34975
34087	P0C214	P50570	0.33082
34088	P0C214	P49458	0.69236
34089	P0C214	O00625	0.63383
34090	P0C214	Q7Z3Z0	0.58756
34091	P0C214	O75688	0.5004
34092	P0C214	Q9H0I3	0.39064
34093	P0C214	P54278	0.32562
34094	P0C214	A6NM28	0.21148
34095	P0C214	Q8NA57	0.22683
34096	P0C214	P48380	0.33881
34097	P0C214	Q96A56	0.99489
34098	P0C214	Q86V48	0.60038
34099	P0C214	Q5T1C6	0.67768
34100	P0C214	Q9UIC8	0.30552
34101	P0C214	Q16698	0.4198
34102	P0C214	Q9ULU4	0.41257
34103	P0C214	Q52LA3	0.21564
34104	P0C214	Q9H008	0.62309
34105	P0C214	Q96PV6	0.66871
34106	P0C214	Q5TKA1	0.32511
34107	P0C214	O95782	0.42098
34108	P0C214	Q93083	0.39612
34109	P0C214	Q9BV90	0.054611
34110	P0C214	P09234	0.50737
34111	P0C214	P35998	0.46218
34112	P0C214	P60900	0.54202
34113	P0C214	Q9HD34	0.72382
34114	P0C214	Q86UD1	0.16266
34115	P0C214	Q569K6	0.14592
34116	P0C214	A5D8V6	0.12906
34117	P0C214	Q53T94	0.35578
34118	P0C214	P78545	0.70536
34119	P0C214	P61313	1.2375
34120	P0C214	Q15181	0.5141
34121	P0C214	Q99684	0.30684
34122	P0C214	Q9Y623	0.89031
34123	P0C214	P62256	0.73939
34124	P0C214	P08708	0.63412

34125	P0C214	Q5T215	0.29512
34126	P0C214	Q6ZNR8	0.086276
34127	P0C214	A6NDD8	0.51029
34128	P0C214	Q6H8Q1	0.30057
34129	P0C214	P04424	0.019079
34130	P0C214	Q5H9L4	0.20645
34131	P0C214	Q9Y4L5	0.52003
34132	P0C214	Q05084	0.39934
34133	P0C214	Q9H3P2	1.0297
34134	P0C214	P50549	0.84925
34135	P0C214	Q8IY92	0.34028
34136	P0C214	Q9HCL3	0.49249
34137	P0C214	Q9ULH7	0.84471
34138	P0C214	Q08752	0.38976
34139	P0C214	O14770	0.2773
34140	P0C214	Q6NUN9	0.68141
34141	P0C214	Q9NWS1	0.87145
34142	P0C214	A6NNV3	0.28575
34143	P0C214	Q9P243	0.38293
34144	P0C214	Q9NVD7	0.24338
34145	P0C214	Q92988	0.35875
34146	P0C214	E9PI22	0.26625
34147	P0C214	Q86VX2	0.55172
34148	P0C214	O60645	0.27848
34149	P0C214	Q96LX7	0.13616
34150	P0C214	Q96MU7	0.6466
34151	P0C214	C9JC47	0.086276
34152	P0C214	Q9P015	0.36099
34153	P0C214	Q9H320	0.58589
34154	P0C214	P22392	0.36166
34155	P0C214	Q9Y5P8	0.61346
34156	P0C214	Q9P0U1	0.026927
34157	P0C214	Q9P2D3	0.84633
34158	P0C214	Q9BSN8	0.46879
34159	P0C214	P52594	0.39215
34160	P0C214	P41162	0.20115
34161	P0C214	Q92945	0.87102
34162	P0C214	Q96LS8	0.039873
34163	P0C214	Q8NAJ2	0.028151
34164	P0C214	Q8NEP4	0.24937
34165	P0C214	Q14011	0.27112
34166	P0C214	Q9NNW5	0.3899
34167	P0C214	Q9H2T7	0.45878
34168	P0C214	Q6NUN7	0.086276
34169	P0C214	Q13342	0.52812
34170	P0C214	Q9UN37	0.45057
34171	P0C214	Q13278	0.29289
34172	P0C214	Q92575	0.95616
34173	P0C214	Q9Y3A3	0.40733
34174	P0C214	Q9Y3D0	0.92139
34175	P0C214	Q8N865	0.17987
34176	P0C214	Q92547	0.40837
34177	P0C214	P60174	0.50715
34178	P0C214	Q7Z2X7	0.23416
34179	P0C214	Q9P287	0.59087
34180	P0C214	Q9BZE4	0.36797
34181	P0C214	Q95613	0.66877
34182	P0C214	O75558	0.39219
34183	P0C214	Q8IUF8	0.42793
34184	P0C214	Q8WV24	0.57007
34185	P0C214	Q9BUY5	0.41895
34186	P0C214	Q86UA6	0.59002
34187	P0C214	O00566	0.809
34188	P0C214	P56555	0.47457
34189	P0C214	Q8TC71	0.37432
34190	P0C214	Q9HB65	0.54131
34191	P0C214	Q8N3J9	0.29462
34192	P0C214	B5ME19	0.31422
34193	P0C214	Q9HBQ8	0.49852
34194	P0C214	Q92636	0.24223
34195	P0C214	P21673	0.42011
34196	P0C214	Q9BQA5	0.7492
34197	P0C214	P20042	0.60232
34198	P0C214	Q9HCJ0	0.37187
34199	P0C214	P0C5J1	0.21724
34200	P0C214	P08651	0.18251

34201	P0C214	Q5CZC0	0.9131
34202	P0C214	Q96M83	0.047906
34203	P0C214	A6NFI3	0.2567
34204	P0C214	Q9BZG8	0.19561
34205	P0C214	Q15776	0.43247
34206	P0C214	P02545	0.64272
34207	P0C214	Q13601	0.40118
34208	P0C214	P22415	0.42816
34209	P0C214	Q9BYN7	0.17348
34210	P0C214	A6NEM1	0.48478
34211	P0C214	Q8IYF1	0.24806
34212	P0C214	Q9H9C1	0.4529
34213	P0C214	Q9UM63	0.18441
34214	P0C214	P0CG20	0.076114
34215	P0C214	P19387	0.64095
34216	P0C214	Q96EK6	0.36964
34217	P0C214	Q8N782	0.43239
34218	P0C214	Q9NP87	0.16513
34219	P0C214	Q9UQ80	1.0425
34220	P0C214	Q16612	0.22832
34221	P0C214	A2RTY3	0.30773
34222	P0C214	P05387	0.86977
34223	P0C214	P50991	0.40261
34224	P0C214	Q86WG3	0.25974
34225	P0C214	O14646	0.63859
34226	P0C214	P25398	0.90921
34227	P0C214	Q9P1Z2	0.71131
34228	P0C214	Q6IN84	0.23997
34229	P0C214	Q99996	0.54452
34230	P0C214	Q9H3F6	0.52568
34231	P0C214	Q96AN2	0.095412
34232	P0C214	Q96QD9	0.65643
34233	P0C214	Q96H12	0.60135
34234	P0C214	Q9NRC8	1.1932
34235	P0C214	Q13148	0.53171
34236	P0C214	Q9UBB5	1.0442
34237	P0C214	Q96LB3	0.52515
34238	P0C214	Q8NFB4	0.97357
34239	P0C214	P22626	0.58362
34240	P0C214	P10828	0.35304
34241	P0C214	Q7RTV3	0.33161
34242	P0C214	Q8NHQ8	0.74321
34243	P0C214	Q5H9J7	0.85403
34244	P0C214	P23193	1.1525
34245	P0C214	Q9HAI6	0.47018
34246	P0C214	Q8N1W2	0.21165
34247	P0C214	Q70EL1	0.38153
34248	P0C214	P35520	0.25143
34249	P0C214	Q15596	0.62658
34250	P0C214	Q6ZVL8	0.086276
34251	P0C214	Q9H7R0	0.43344
34252	P0C214	Q13503	0.62916
34253	P0C214	Q8WYH8	0.45393
34254	P0C214	Q15797	0.21031
34255	P0C214	Q5T7W7	0.24937
34256	P0C214	O43708	0.67107
34257	P0C214	Q5T280	1.1308
34258	P0C214	O00233	0.74614
34259	P0C214	Q86XK3	0.61065
34260	P0C214	O75791	1.0687
34261	P0C214	Q9UM11	1.1668
34262	P0C214	Q8IXY8	0.69592
34263	P0C214	P19388	0.57589
34264	P0C214	Q96FQ6	0.41816
34265	P0C214	Q9BVL2	0.63318
34266	P0C214	Q8IYL3	0.53881
34267	P0C214	Q9NY74	0.64942
34268	P0C214	P52736	0.54639
34269	P0C214	Q15527	0.49974
34270	P0C214	B3KS81	0.24287
34271	P0C214	A8K554	0.04885
34272	P0C214	Q9H0W8	0.48666
34273	P0C214	Q8N4C6	0.38694
34274	P0C214	Q6ZRM9	0.36484
34275	P0C214	Q6L8G5	0.086276
34276	P0C214	Q8N3V7	0.47869



34277	P0C214	Q9UBQ5	1.1694
34278	P0C214	Q8NDZ0	0.13374
34279	P0C214	Q9H2C0	0.55562
34280	P0C214	P67870	0.31549
34281	P0C214	O95644	0.81365
34282	P0C214	Q96P15	0.78972
34283	P0C214	Q13409	0.39224
34284	P0C214	Q8NFB8	0.35117
34285	P0C214	Q15543	0.91711
34286	P0C214	Q9Y651	0.24449
34287	P0C214	Q8TD35	0.24937
34288	P0C214	Q8IVE0	0.075175
34289	P0C214	Q8WUI4	0.31744
34290	P0C214	Q5C9Z4	0.68187
34291	P0C214	Q6QNY1	0.66538
34292	P0C214	P07738	1.1711
34293	P0C214	Q8TA86	0.59053
34294	P0C214	P40692	0.056254
34295	P0C214	Q9BQY9	0.50131
34296	P0C214	P51668	0.81042
34297	P0C214	P16220	0.83463
34298	P0C214	C9JLW8	0.60203
34299	P0C214	Q5TD94	0.2222
34300	P0C214	O43251	0.39696
34301	P0C214	Q13360	0.2224
34302	P0C214	Q96NJ6	0.25699
34303	P0C214	Q13569	0.42904
34304	P0C214	O60869	0.5756
34305	P0C214	Q5VWI1	1.0442
34306	P0C214	Q8NFW8	0.11525
34307	P0C214	P36551	0.21379
34308	P0C214	P14373	0.28034
34309	P0C214	O14757	0.45674
34310	P0C214	O14512	0.50347
34311	P0C214	Q92783	0.53195
34312	P0C214	Q9H4D5	0.61202
34313	P0C214	Q8IV33	0.052525
34314	P0C214	Q8TDP1	0.50411
34315	P0C214	O95948	0.26001
34316	P0C214	Q13228	1.1452
34317	P0C214	Q9NSD9	0.86786
34318	P0C214	Q9P2K3	1.1097
34319	P0C214	Q9UJG1	0.74174
34320	P0C214	Q99627	0.38964
34321	P0C214	O94763	0.82016
34322	P0C214	P35232	0.47377
34323	P0C214	Q8WTS6	0.45773
34324	P0C214	Q3KQV3	0.30056
34325	P0C214	Q9H5V9	0.21939
34326	P0C214	Q14146	0.16769
34327	P0C214	P23610	0.086276
34328	P0C214	Q9NRN7	0.62429
34329	P0C214	Q9BYZ2	1.0002
34330	P0C214	Q8NB25	0.22041
34331	P0C214	Q9Y605	1.32
34332	P0C214	H0Y7S4	0.17424
34333	P0C214	Q9NQ92	0.87307
34334	P0C214	O43633	0.30631
34335	P0C214	O00463	0.29081
34336	P0C214	P26640	0.27612
34337	P0C214	Q9BZE1	0.31815
34338	P0C214	P17017	0.26437
34339	P0C214	Q8NHZ7	0.42069
34340	P0C214	Q96LI5	0.70614
34341	P0C214	A6NHX0	0.63857
34342	P0C214	Q9NQR1	0.58974
34343	P0C214	Q92466	0.59924
34344	P0C214	O95391	0.12811
34345	P0C214	Q9P219	0.24212
34346	P0C214	O75674	0.32935
34347	P0C214	Q8N0S6	0.10605
34348	P0C214	P55210	0.24819
34349	P0C214	Q08AG7	0.55226
34350	P0C214	Q96FN9	0.47161
34351	P0C214	O14628	0.44727
34352	P0C214	Q9Y3B7	1.183

34353	P0C214	Q9BQE4	0.3807
34354	P0C214	Q9H9H4	0.65641
34355	P0C214	P53805	0.53845
34356	P0C214	Q9Y3Y4	0.53429
34357	P0C214	Q9BV97	0.31995
34358	P0C214	Q9H974	1.3718
34359	P0C214	P46108	0.50771
34360	P0C214	Q9NXR1	0.2821
34361	P0C214	Q5F1R6	0.14055
34362	P0C214	Q5VWM5	0.81925
34363	P0C214	P05114	0.3519
34364	P0C214	Q15046	0.85313
34365	P0C214	Q9BWK5	0.41881
34366	P0C214	Q8NFD5	0.82876
34367	P0C214	P17812	0.3312
34368	P0C214	Q9H0C8	0.6432
34369	P0C214	P69891	0.3641
34370	P0C214	Q5HYI7	0.95494
34371	P0C214	P30047	0.76042
34372	P0C214	Q3ZCT1	0.25449
34373	P0C214	Q9Y3R5	0.55431
34374	P0C214	Q6L8Q7	0.35958
34375	P0C214	Q9NQP4	1.1153
34376	P0C214	Q9H3K6	0.38958
34377	P0C214	O95271	0.4807
34378	P0C214	Q15293	0.30055
34379	P0C214	Q92800	0.45887
34380	P0C214	Q9NVV2	0.086276
34381	P0C214	Q96C74	0.23585
34382	P0C214	Q86Y01	0.68057
34383	P0C214	Q5JQS6	0.11688
34384	P0C214	Q5T3J3	0.98876
34385	P0C214	Q8NFB5	0.28575
34386	P0C214	Q8NA42	0.32046
34387	P0C214	Q7LG56	0.37894
34388	P0C214	A6NKF2	0.57314
34389	P0C214	P22830	0.082794
34390	P0C214	Q86YF9	0.15972
34391	P0C214	Q15562	0.75596
34392	P0C214	Q6FI81	0.36676
34393	P0C214	Q9Y606	1.2348
34394	P0C214	Q96G28	0.26852
34395	P0C214	F2Z3M2	0.086276
34396	P0C214	Q8TBY8	0.66758
34397	P0C214	Q99638	0.53935
34398	P0C214	Q96H86	0.29809
34399	P0C214	Q9BZL1	0.39346
34400	P0C214	Q9BYS1	0.12997
34401	P0C214	Q8N9H9	0.086276
34402	P0C214	Q8N159	0.2515
34403	P0C214	Q6P047	0.26803
34404	P0C214	Q60315	0.2406
34405	P0C214	P0C7X3	0.32642
34406	P0C214	Q5SWL8	0.27649
34407	P0C214	Q9BWX1	0.22491
34408	P0C214	Q5VWQ0	1.026
34409	P0C214	P48454	0.16926
34410	P0C214	Q9Y4X5	0.56995
34411	P0C214	P61927	0.88621
34412	P0C214	Q96G25	0.98533
34413	P0C214	Q8N895	0.418
34414	P0C214	Q8N3F8	0.30669
34415	P0C214	P31946	0.61588
34416	P0C214	Q02040	0.23584
34417	P0C214	Q9Y3D2	0.21251
34418	P0C214	P62750	1.0892
34419	P0C214	Q9Y383	0.6544
34420	P0C214	Q63HQ0	0.092351
34421	P0C214	Q7Z3Y9	0.58756
34422	P0C214	O95521	0.30244
34423	P0C214	Q14568	0.99507
34424	P0C214	Q96IY1	0.95151
34425	P0C214	A6NGY1	0.73438
34426	P0C214	Q9ULK4	1.1657
34427	P0C214	O15370	0.35159
34428	P0C214	P51531	0.60383

34429	POC214	Q8N5U0	0.086276
34430	POC214	P62979	0.49628
34431	POC214	Q9NR28	0.88425
34432	POC214	A4D0V7	0.53574
34433	POC214	Q07157	0.61324
34434	POC214	Q14CZ0	1.3453
34435	POC214	Q32M78	0.44702
34436	POC214	O94818	0.73154
34437	POC214	Q5T5F5	0.086276
34438	POC214	P52630	0.801
34439	POC214	P82673	0.060152
34440	POC214	P59942	0.326
34441	POC214	O95561	0.70381
34442	POC214	Q5VTR2	0.76361
34443	POC214	Q16762	0.28129
34444	POC214	Q96AQ7	0.65368
34445	POC214	O94805	0.66732
34446	POC214	Q9UBW8	0.38964
34447	POC214	Q96S07	0.086276
34448	POC214	Q9UI72	0.086276
34449	POC214	Q8N5N4	0.23926
34450	POC214	Q7Z6K1	0.59482
34451	POC214	Q96K17	0.53349
34452	POC214	Q19AV6	1.129
34453	POC214	Q6ZPA2	0.086276
34454	POC214	P42768	0.3659
34455	POC214	Q5VXH4	0.402
34456	POC214	Q5VWX1	0.67813
34457	POC214	Q8NB12	0.21654
34458	POC214	Q3BBV1	1.2293
34459	POC214	P30260	1.1311
34460	POC214	Q8TDB6	0.42826
34461	POC214	Q6PI77	0.38622
34462	POC214	Q9BRQ6	1.0674
34463	POC214	P05386	1.371
34464	POC214	P49454	0.52394
34465	POC214	Q14061	0.51617
34466	POC214	Q06265	0.26578
34467	POC214	P48163	0.23099
34468	POC214	Q8NDY4	0.086276
34469	POC214	Q6ZN32	0.18216
34470	POC214	Q96JE7	0.95654
34471	POC214	P21912	0.47081
34472	POC214	Q8IUD2	0.64885
34473	POC214	Q9ULG3	0.086276
34474	POC214	Q5VZK9	0.30279
34475	POC214	P09132	0.52578
34476	POC214	P0CJ79	0.31307
34477	POC214	Q9UNP9	0.41667
34478	POC214	Q96NG8	0.30833
34479	POC214	Q6ZQN3	0.5165
34480	POC214	Q5JRC9	0.26194
34481	POC214	Q01546	0.48019
34482	POC214	P21399	0.47054
34483	POC214	Q14657	1.2574
34484	POC214	Q14106	0.35581
34485	POC214	P53680	0.15238
34486	POC214	Q9UPN7	0.94164
34487	POC214	Q9Y678	0.5134
34488	POC214	P08107	0.7759
34489	POC214	P54845	0.15357
34490	POC214	Q04837	0.46138
34491	POC214	Q9Y3A5	0.59568
34492	POC214	Q96JC9	0.95714
34493	POC214	Q15326	1.139
34494	POC214	Q5EBM0	0.64097
34495	POC214	Q9UQR1	0.69685
34496	POC214	Q6P3V2	0.21705
34497	POC214	A6NN90	0.041555
34498	POC214	P62851	1.0316
34499	POC214	Q8IYW5	0.25447
34500	POC214	Q8IX15	0.39856
34501	POC214	Q8TCE6	0.96481
34502	POC214	Q6ZSB9	0.25987
34503	POC214	Q9Y2W1	0.83275
34504	POC214	Q8TAF5	0.086276

34505	P0C214	Q13123	0.52798
34506	P0C214	Q96RE7	0.97825
34507	P0C214	Q5D1E8	0.44924
34508	P0C214	Q3MIV0	0.086276
34509	P0C214	Q92748	1.116
34510	P0C214	Q96EB1	1.0872
34511	P0C214	O15499	0.080357
34512	P0C214	Q8NDA8	0.291
34513	P0C214	Q969R5	0.094082
34514	P0C214	P10515	0.55021
34515	P0C214	Q86U42	0.74503
34516	P0C214	Q9UBK9	0.91012
34517	P0C214	Q99733	0.79371
34518	P0C214	Q9NVX0	0.982
34519	P0C214	Q9P270	0.36609
34520	P0C214	P63261	0.10604
34521	P0C214	Q6AZW8	0.28423
34522	P0C214	P61970	0.41599
34523	P0C214	P0C852	0.086276
34524	P0C214	Q9UL03	0.65124
34525	P0C214	Q8IUB9	0.086276
34526	P0C214	Q96EZ8	0.66561
34527	P0C214	Q9H902	0.074155
34528	P0C214	P19013	0.48019
34529	P0C214	P50452	0.96136
34530	P0C214	Q8TCJ0	1.0171
34531	P0C214	Q14590	0.27328
34532	P0C214	Q9H5F2	0.31831
34533	P0C214	Q5SRE5	0.59971
34534	P0C214	Q1ED39	0.73154
34535	P0C214	P40222	0.50478
34536	P0C214	Q9NVV4	0.66801
34537	P0C214	Q6P582	0.63949
34538	P0C214	Q9NWZ8	0.79329
34539	P0C214	P06730	0.6776
34540	P0C214	O43255	0.47682
34541	P0C214	P19338	0.51964
34542	P0C214	Q5ST30	0.29762
34543	P0C214	P0CE67	0.086276
34544	P0C214	Q9NT62	0.51256
34545	P0C214	Q9NZL3	0.60856
34546	P0C214	P18754	1.0027
34547	P0C214	P14672	0.57271
34548	P0C214	Q8N660	1.2293
34549	P0C214	Q96JJ3	0.21071
34550	P0C214	Q96Q83	0.61861
34551	P0C214	O60308	0.56639
34552	P0C214	P20073	0.52658
34553	P0C214	Q9Y5Y2	0.17775
34554	P0C214	Q9UJ78	0.2378
34555	P0C214	Q96JB2	0.71187
34556	P0C214	Q9NTI5	0.73965
34557	P0C214	Q6X4T0	0.23053
34558	P0C214	Q86XF7	0.59266
34559	P0C214	Q9UNE7	0.40852
34560	P0C214	Q9BYQ6	0.43378
34561	P0C214	Q9NQ87	0.37412
34562	P0C214	Q9BYG3	0.27723
34563	P0C214	A1L170	0.086276
34564	P0C214	O43236	0.33347
34565	P0C214	P98171	0.33185
34566	P0C214	Q9Y618	1.0048
34567	P0C214	Q8IUC3	0.52687
34568	P0C214	Q96CA5	0.28393
34569	P0C214	O15524	0.23763
34570	P0C214	Q15185	0.65159
34571	P0C214	Q13838	0.18558
34572	P0C214	Q8NFF5	0.35668
34573	P0C214	Q6P9B6	0.2675
34574	P0C214	Q7L1V2	0.85823
34575	P0C214	P62508	0.33715
34576	P0C214	Q8IZT6	0.27936
34577	P0C214	Q9NRG4	0.74098
34578	P0C214	Q5TI25	1.2293
34579	P0C214	Q9P032	0.49352
34580	P0C214	Q9Y448	0.70423

34581	P0C214	Q8IZ73	0.22666
34582	P0C214	O76064	0.29751
34583	P0C214	A8MYZ0	0.29668
34584	P0C214	P30304	0.66014
34585	P0C214	Q96FZ2	0.98722
34586	P0C214	Q96EK4	1.2067
34587	P0C214	Q96EG3	0.21487
34588	P0C214	A6NN06	0.086276
34589	P0C214	P33552	0.52759
34590	P0C214	Q8WUH2	0.58328
34591	P0C214	Q9H963	0.43256
34592	P0C214	Q9UBI1	0.2675
34593	P0C214	P50995	0.7626
34594	P0C214	Q5SNV9	0.24382
34595	P0C214	Q92782	0.55057
34596	P0C214	Q96BY7	0.24463
34597	P0C214	Q9NPD8	0.80175
34598	P0C214	Q01664	0.45251
34599	P0C214	P56282	0.3173
34600	P0C214	Q8N3R3	0.23672
34601	P0C214	Q96Q35	0.42134
34602	P0C214	Q13561	0.70344
34603	P0C214	Q99704	0.16228
34604	P0C214	Q9H7N4	0.76033
34605	P0C214	Q5TB80	0.74228
34606	P0C214	Q9UPN9	0.47305
34607	P0C214	P27986	0.47638
34608	P0C214	Q15365	0.91306
34609	P0C214	Q6ZS49	0.086276
34610	P0C214	Q53HM4	0.37861
34611	P0C214	Q6PD62	0.56023
34612	P0C214	Q8TB03	0.29443
34613	P0C214	O43765	0.58409
34614	P0C214	Q8WYQ3	0.37228
34615	P0C214	Q8N7R1	0.56659
34616	P0C214	O75177	0.68232
34617	P0C214	Q8IWL8	0.59004
34618	P0C214	O95373	0.91195
34619	P0C214	Q14498	0.77553
34620	P0C214	Q5T871	0.086276
34621	P0C214	Q9NY87	0.45586
34622	P0C214	A8MXZ3	0.086276
34623	P0C214	P46782	0.71074
34624	P0C214	Q9UI66	0.086276
34625	P0C214	P43490	0.20422
34626	P0C214	O75175	1.5103
34627	P0C214	Q8WV07	0.44053
34628	P0C214	Q9UJY1	0.44566
34629	P0C214	Q9NP66	0.91644
34630	P0C214	Q9BS31	0.1962
34631	P0C214	Q5EBL2	0.24669
34632	P0C214	Q8WYQ5	0.7018
34633	P0C214	Q9C0E2	0.77357
34634	P0C214	O43790	0.53378
34635	P0C214	Q17RY6	0.56722
34636	P0C214	Q96PE7	0.22382
34637	P0C214	Q86WR7	0.33967
34638	P0C214	Q569G3	0.24937
34639	P0C214	Q96CB9	0.82406
34640	P0C214	A8MUL3	0.086276
34641	P0C214	P59282	0.36817
34642	P0C214	Q8IYF3	0.36978
34643	P0C214	Q9BRP4	0.39882
34644	P0C214	Q6NSH3	0.55315
34645	P0C214	P39687	1.4878
34646	P0C214	Q92530	0.79407
34647	P0C214	Q6L8H4	0.086276
34648	P0C214	P26678	0.19666
34649	P0C214	Q9UL33	0.41975
34650	P0C214	Q8IZ63	0.086276
34651	P0C214	Q9ULC4	0.38118
34652	P0C214	Q8IYI6	0.436
34653	P0C214	Q8NE65	0.42468
34654	P0C214	Q5CZA5	0.36913
34655	P0C214	P61081	0.043552
34656	P0C214	O95163	0.61101

34657	P0C214	Q9GZY8	0.20718
34658	P0C214	Q96QF0	0.53902
34659	P0C214	P15822	0.76081
34660	P0C214	Q96HA7	0.71339
34661	P0C214	Q96LX8	0.28195
34662	P0C214	P07320	0.68261
34663	P0C214	Q9NTK5	0.75098
34664	P0C214	Q6A163	0.5102
34665	P0C214	P46020	0.28008
34666	P0C214	Q3LI59	0.086276
34667	P0C214	Q5VVM6	0.14036
34668	P0C214	Q9NYF0	0.19829
34669	P0C214	Q5JRK9	0.80497
34670	P0C214	Q9UJT9	0.34612
34671	P0C214	P78346	0.71492
34672	P0C214	P56537	1.155
34673	P0C214	Q7L190	0.73259
34674	P0C214	Q9UBC9	0.38624
34675	P0C214	O60284	0.030112
34676	P0C214	Q8NG50	0.20723
34677	P0C214	Q9H3K2	0.035737
34678	P0C214	Q9NQ33	0.44481
34679	P0C214	Q9C0D2	0.50735
34680	P0C214	Q8WV37	0.48694
34681	P0C214	Q8N9G6	0.66203
34682	P0C214	Q13287	0.54139
34683	P0C214	Q8N1K5	0.17664
34684	P0C214	Q15699	0.28048
34685	P0C214	Q9UN36	0.57869
34686	P0C214	Q96GS4	0.77019
34687	P0C214	P52746	0.13336
34688	P0C214	Q96CM3	0.57601
34689	P0C214	Q9H0M5	0.27328
34690	P0C214	O15042	0.32876
34691	P0C214	O00757	0.29035
34692	P0C214	Q5HYK3	0.22257
34693	P0C214	Q9H6Z4	1.0268
34694	P0C214	P14859	1.0484
34695	P0C214	Q9NSJ1	0.33466
34696	P0C214	Q7L5Y9	0.25486
34697	P0C214	Q7Z3B4	0.79585
34698	P0C214	Q9UK12	0.29235
34699	P0C214	Q9Y6E7	0.53395
34700	P0C214	Q9H492	0.19282
34701	P0C214	Q9Y2T3	0.21315
34702	P0C214	Q96LR5	0.82252
34703	P0C214	Q9ULV3	0.23177
34704	P0C214	P13807	0.63099
34705	P0C214	P31939	0.46332
34706	P0C214	Q96ES7	0.085513
34707	P0C214	Q9H693	0.72474
34708	P0C214	Q9NYG5	0.80367
34709	P0C214	Q96M29	0.41792
34710	P0C214	Q5JSZ5	0.63719
34711	P0C214	Q8WW01	0.24525
34712	P0C214	Q96E14	0.45974
34713	P0C214	Q5JTC6	0.69549
34714	P0C214	Q96N20	0.2932
34715	P0C214	A6NKU9	0.28575
34716	P0C214	H3BNL8	1.014
34717	P0C214	Q5TID7	0.3716
34718	P0C214	Q9Y3Y2	0.85151
34719	P0C214	P82933	0.64427
34720	P0C214	Q9UMX1	0.6684
34721	P0C214	Q16531	0.58143
34722	P0C214	Q9H7T9	0.55989
34723	P0C214	Q9Y692	0.67311
34724	P0C214	P15559	0.40127
34725	P0C214	Q8ND83	0.81906
34726	P0C214	O14920	0.45388
34727	P0C214	Q15008	0.20541
34728	P0C214	O15304	0.94115
34729	P0C214	Q9BXS5	0.72815
34730	P0C214	P23297	0.47678
34731	P0C214	O00161	0.73139
34732	P0C214	P56279	0.62665

34733	P0C214	Q8WXB4	0.3338
34734	P0C214	Q99583	0.24468
34735	P0C214	Q9ULR5	0.41189
34736	P0C214	A6NK89	0.5294
34737	P0C214	Q9UBC1	0.43978
34738	P0C214	Q6P1W5	0.27899
34739	P0C214	Q86X95	1.0371
34740	P0C214	Q9Y253	0.21032
34741	P0C214	P18124	0.78028
34742	P0C214	Q5VWM1	0.36894
34743	P0C214	Q14209	0.87576
34744	P0C214	Q93062	0.83774
34745	P0C214	Q9H3M9	0.35519
34746	P0C214	Q9UHD9	0.77198
34747	P0C214	Q9Y2P7	0.3005
34748	P0C214	Q9ULD9	1.0498
34749	P0C214	Q6ZVQ6	1.0379
34750	P0C214	P86478	0.086276
34751	P0C214	P59047	0.42985
34752	P0C214	O75368	0.16541
34753	P0C214	Q9NQT4	0.66135
34754	P0C214	P04406	0.66395
34755	P0C214	Q75323	0.6159
34756	P0C214	Q14CS0	0.50612
34757	P0C214	Q3LI68	0.78534
34758	P0C214	Q92837	0.77586
34759	P0C214	Q01860	0.6334
34760	P0C214	Q96BZ8	0.24937
34761	P0C214	Q9Y2L8	0.52865
34762	P0C214	O60216	0.62671
34763	P0C214	Q2M3X9	0.3048
34764	P0C214	P26371	0.086276
34765	P0C214	Q86WQ0	0.46466
34766	P0C214	P56181	0.40343
34767	P0C214	Q6UVJ0	0.63845
34768	P0C214	Q86UW9	0.89507
34769	P0C214	Q86U38	0.23018
34770	P0C214	Q8WVV9	0.15201
34771	P0C214	Q6ZQT7	0.086276
34772	P0C214	P82650	0.19627
34773	P0C214	P57076	0.23809
34774	P0C214	Q9NY33	0.21123
34775	P0C214	Q6ZTY8	0.042339
34776	P0C214	O95178	0.28096
34777	P0C214	Q6NV74	0.24937
34778	P0C214	Q96GM5	0.6875
34779	P0C214	O15155	0.036955
34780	P0C214	P49247	0.70324
34781	P0C214	Q8NCU4	0.19057
34782	P0C214	Q9NP77	0.22305
34783	P0C214	Q9UMX0	0.71248
34784	P0C214	Q6PGQ7	1.198
34785	P0C214	Q9BSH4	0.7665
34786	P0C214	Q66K89	0.76818
34787	P0C214	Q96NI8	0.41788
34788	P0C214	Q86VP6	0.72005
34789	P0C214	A8MV24	0.33628
34790	P0C214	O14713	0.35606
34791	P0C214	Q9UBD5	0.46169
34792	P0C214	Q5TGS1	0.37222
34793	P0C214	Q8IYD8	0.27057
34794	P0C214	P01106	0.37804
34795	P0C214	Q96RY5	0.77018
34796	P0C214	Q92785	0.54905
34797	P0C214	A1A4V9	0.17641
34798	P0C214	Q3C1V8	0.52302
34799	P0C214	O43660	0.25592
34800	P0C214	Q9UM13	0.73291
34801	P0C214	Q05639	0.72864
34802	P0C214	O15027	0.61328
34803	P0C214	O95402	0.98938
34804	P0C214	O75400	0.83371
34805	P0C214	P11586	0.13354
34806	P0C214	Q8N9W8	0.907
34807	P0C214	Q8TC90	0.43024
34808	P0C214	Q9NW81	0.019055

34809	P0C214	Q5T6M2	0.57802
34810	P0C214	O43361	0.25678
34811	P0C214	Q6L8G8	0.086276
34812	P0C214	Q96F86	0.78074
34813	P0C214	P00558	0.17616
34814	P0C214	O60675	0.30336
34815	P0C214	Q9HB71	0.51263
34816	P0C214	Q9BZD4	0.76692
34817	P0C214	P14316	0.94613
34818	P0C214	Q8N888	0.70115
34819	P0C214	Q9BQ89	0.85578
34820	P0C214	Q86WJ1	0.37942
34821	P0C214	Q99551	0.73714
34822	P0C214	Q9UL18	1.0786
34823	P0C214	O76014	0.5102
34824	P0C214	Q8NEM1	0.49815
34825	P0C214	A6NI79	0.78682
34826	P0C214	Q2KHR2	0.1604
34827	P0C214	O76075	0.15147
34828	P0C214	P10155	0.42326
34829	P0C214	O75081	1.039
34830	P0C214	Q5TA45	0.19207
34831	P0C214	Q70YC5	0.1894
34832	P0C214	Q92764	0.44438
34833	P0C214	O60518	0.83797
34834	P0C214	Q6ZS92	0.12973
34835	P0C214	O60248	0.39387
34836	P0C214	Q9P2J9	0.18697
34837	P0C214	Q9ULW6	0.81783
34838	P0C214	Q8WUM0	0.73135
34839	P0C214	Q03468	0.36114
34840	P0C214	O14802	0.22983
34841	P0C214	Q96EF6	0.68225
34842	P0C214	A6NK53	0.34099
34843	P0C214	Q9UBF6	0.68998
34844	P0C214	P59052	0.16928
34845	P0C214	Q9H7U1	0.77515
34846	P0C214	P35712	0.39219
34847	P0C214	O96019	0.86192
34848	P0C214	Q13495	1.0366
34849	P0C214	Q3C1V1	0.24937
34850	P0C214	O60304	0.27193
34851	P0C214	Q9ULM3	0.6861
34852	P0C214	Q8IYE0	0.4921
34853	P0C214	P07196	0.52469
34854	P0C214	Q14188	0.62021
34855	P0C214	Q9H7R5	0.38935
34856	P0C214	O95433	0.67963
34857	P0C214	Q8TEV9	0.38792
34858	P0C214	Q7LBC6	0.27492
34859	P0C214	Q9NPJ6	0.90274
34860	P0C214	Q9UH77	0.59108
34861	P0C214	Q9UQL6	0.4864
34862	P0C214	Q7L5N1	1.1297
34863	P0C214	A7E2V4	1.1075
34864	P0C214	Q9UPP1	0.44538
34865	P0C214	Q9NYJ8	0.49528
34866	P0C214	O95486	0.38305
34867	P0C214	Q13105	0.38834
34868	P0C214	P35749	0.89031
34869	P0C214	Q86VN1	0.44507
34870	P0C214	P41161	0.10416
34871	P0C214	P28070	0.57615
34872	P0C214	Q9UBB9	0.30927
34873	P0C214	P13804	0.1443
34874	P0C214	P06400	0.59903
34875	P0C214	Q4VC05	0.19839
34876	P0C214	O43583	0.8367
34877	P0C214	Q8IZU1	0.53036
34878	P0C214	Q9BXY8	0.56284
34879	P0C214	Q9BV86	0.31939
34880	P0C214	O75953	0.92441
34881	P0C214	Q92759	0.60748
34882	P0C214	Q16798	0.33328
34883	P0C214	Q5XUX0	0.35622
34884	P0C214	P35548	0.50891



34885	P0C214	Q7Z2Z1	0.76582
34886	P0C214	Q96T37	0.38304
34887	P0C214	P57055	0.55775
34888	P0C214	P08047	0.72112
34889	P0C214	O00291	0.35682
34890	P0C214	Q96B97	0.33971
34891	P0C214	P0C7I6	0.83125
34892	P0C214	Q0VDD5	0.086276
34893	P0C214	Q09FC8	0.28669
34894	P0C214	K7EJ46	0.086276
34895	P0C214	P49756	0.42896
34896	P0C214	Q14966	0.14786
34897	P0C214	A6NLJ0	0.53881
34898	P0C214	Q8IYI8	0.34605
34899	P0C214	Q96EY1	0.43074
34900	P0C214	Q9UKT4	0.85268
34901	P0C214	Q8TA94	0.47555
34902	P0C214	Q05516	0.6169
34903	P0C214	P42575	0.37079
34904	P0C214	Q9HC52	0.77904
34905	P0C214	P63146	0.91374
34906	P0C214	Q96B26	0.90296
34907	P0C214	Q7Z3K6	0.47392
34908	P0C214	P12956	0.29095
34909	P0C214	Q3LHN1	0.086276
34910	P0C214	Q8HWS3	0.21572
34911	P0C214	Q9GZS3	1.12
34912	P0C214	P11171	0.3732
34913	P0C214	O00255	0.15633
34914	P0C214	P0CI01	0.28575
34915	P0C214	Q12830	0.8393
34916	P0C214	Q8ND90	0.6469
34917	P0C214	Q96PM9	0.3338
34918	P0C214	Q9Y6D9	0.89676
34919	P0C214	P52948	0.99825
34920	P0C214	Q96DG6	0.2058
34921	P0C214	Q8N815	0.0040258
34922	P0C214	Q96JB5	0.26914
34923	P0C214	Q92870	0.64553
34924	P0C214	Q6VVB1	0.50123
34925	P0C214	Q5VTE0	0.95695
34926	P0C214	P12980	0.79946
34927	P0C214	B4DX44	0.49065
34928	P0C214	Q96NB1	0.24274
34929	P0C214	Q16629	0.61013
34930	P0C214	P42772	0.83022
34931	P0C214	Q70YC4	0.25805
34932	P0C214	P52737	0.50904
34933	P0C214	Q92621	1.0383
34934	P0C214	Q3KP66	0.76386
34935	P0C214	P31749	0.46181
34936	P0C214	Q8NCE0	0.53844
34937	P0C214	Q9BYG4	0.66658
34938	P0C214	O95447	0.11921
34939	P0C214	Q9NRY2	0.74038
34940	P0C214	Q14839	0.53135
34941	P0C214	P61581	0.37639
34942	P0C214	Q8N3X1	0.31799
34943	P0C214	Q8N2M8	0.73728
34944	P0C214	Q8TF50	0.30903
34945	P0C214	P61353	0.88548
34946	P0C214	Q9BXP5	1.017
34947	P0C214	Q1RN00	0.086276
34948	P0C214	Q63ZY3	0.80636
34949	P0C214	Q9Y2X3	0.65357
34950	P0C214	Q9H583	1.043
34951	P0C214	Q9Y3B8	0.23108
34952	P0C214	Q9BRA0	0.12649
34953	P0C214	Q9BVS5	0.32106
34954	P0C214	Q8N1L9	0.722
34955	P0C214	P61088	0.76035
34956	P0C214	Q9NR22	0.29505
34957	P0C214	Q8N8R7	0.45292
34958	P0C214	P54252	0.46048
34959	P0C214	Q701N4	0.086276
34960	P0C214	Q5JVX7	0.46482

34961	P0C214	A6NIY4	0.28575
34962	P0C214	Q9BYD6	0.51065
34963	P0C214	Q96EH3	0.16728
34964	P0C214	P14866	0.5049
34965	P0C214	Q96N53	0.086276
34966	P0C214	P0CG24	0.21769
34967	P0C214	O15397	0.72169
34968	P0C214	Q68DY9	0.28571
34969	P0C214	O15405	0.88415
34970	P0C214	P36578	1.3257
34971	P0C214	Q8N8A2	0.2675
34972	P0C214	O60384	0.50652
34973	P0C214	A6NJL1	0.16744
34974	P0C214	Q9NQV7	0.27381
34975	P0C214	Q17RH7	0.086276
34976	P0C214	Q5VZF2	0.13979
34977	P0C214	Q13155	0.68293
34978	P0C214	Q5JUK9	0.034609
34979	P0C214	Q9NY43	0.31825
34980	P0C214	O60936	0.89984
34981	P0C214	Q8N1I8	0.086276
34982	P0C214	Q15021	0.7874
34983	P0C214	P30154	0.25227
34984	P0C214	P35638	0.68749
34985	P0C214	P20618	0.79871
34986	P0C214	Q4G0F5	0.22528
34987	P0C214	Q9BUV0	0.24937
34988	P0C214	Q5HYK9	0.35008
34989	P0C214	P13051	1.1636
34990	P0C214	Q3LI61	0.086276
34991	P0C214	Q8N812	0.050468
34992	P0C214	Q9BVG4	0.30917
34993	P0C214	Q9NV06	0.23606
34994	P0C214	Q5TZA2	0.52811
34995	P0C214	Q96HA8	1.0883
34996	P0C214	Q9HAH1	0.38993
34997	P0C214	P62328	1.0459
34998	P0C214	Q14588	0.3804
34999	P0C214	P29083	1.1183
35000	P0C214	Q6EEV6	0.11408
35001	P0C214	Q8N8E3	0.22381
35002	P0C214	P31276	0.40585
35003	P0C214	Q14677	0.52453
35004	P0C214	Q2TAL8	0.8592
35005	P0C214	O00287	0.22107
35006	P0C214	Q33E94	0.79523
35007	P0C214	Q06520	0.35067
35008	P0C214	Q6ZVK8	0.43837
35009	P0C214	Q9UGK3	0.66653
35010	P0C214	Q0VD86	0.35391
35011	P0C214	Q49MG5	0.79446
35012	P0C214	Q6IPX3	0.76306
35013	P0C214	Q9Y5R5	0.13859
35014	P0C214	Q15466	0.46017
35015	P0C214	Q8IUW3	0.73186
35016	P0C214	Q96T76	0.86536
35017	P0C214	Q9BU64	0.30428
35018	P0C214	P07195	1.0002
35019	P0C214	Q6L8H2	0.086276
35020	P0C214	Q96JN8	0.26982
35021	P0C214	O60613	0.52503
35022	P0C214	B1ANY3	0.045761
35023	P0C214	Q96QC0	0.85674
35024	P0C214	Q96PU5	0.40479
35025	P0C214	Q9BRQ4	0.039288
35026	P0C214	P04198	0.75262
35027	P0C214	A6NNL0	0.39603
35028	P0C214	Q9BQ15	0.5807
35029	P0C214	Q9H8E8	0.62823
35030	P0C214	Q7Z3V5	0.37033
35031	P0C214	P36957	0.21972
35032	P0C214	P80303	0.29411
35033	P0C214	Q66K74	0.19923
35034	P0C214	Q8NBZ0	1.2037
35035	P0C214	P0DI82	0.34572
35036	P0C214	A8MTY0	0.46031

35037	P0C214	P51553	0.39563
35038	P0C214	Q9Y6J0	0.10946
35039	P0C214	Q9UBU9	0.60026
35040	P0C214	Q12769	1.0576
35041	P0C214	Q9NW38	0.65653
35042	P0C214	Q9UN81	0.23599
35043	P0C214	Q9UK10	0.3804
35044	P0C214	Q86SZ2	0.70507
35045	P0C214	P54274	0.34341
35046	P0C214	O95873	0.24937
35047	P0C214	Q8TDD2	0.26644
35048	P0C214	O00629	0.5405
35049	P0C214	Q96EF9	0.025247
35050	P0C214	Q6NSI8	0.72849
35051	P0C214	Q7Z4H9	0.40259
35052	P0C214	P0CV98	0.69286
35053	P0C214	Q9UGL9	0.086276
35054	P0C214	Q8N944	0.89019
35055	P0C214	Q7Z745	0.45172
35056	P0C214	Q5T953	0.41881
35057	P0C214	Q16719	0.53883
35058	P0C214	O75154	0.65705
35059	P0C214	Q8TEB1	0.25402
35060	P0C214	Q9H7S9	0.72848
35061	P0C214	Q8I WV7	0.33505
35062	P0C214	Q8IZT9	0.60323
35063	P0C214	Q9NPF5	0.8302
35064	P0C214	Q13432	0.3279
35065	P0C214	Q8TAW3	0.30069
35066	P0C214	Q9UJW9	1.4211
35067	P0C214	Q9Y2Z4	0.32373
35068	P0C214	P09874	0.59145
35069	P0C214	P49721	0.57107
35070	P0C214	Q5JNZ3	0.36568
35071	P0C214	Q5T0F9	0.32658
35072	P0C214	Q9NX46	0.36247
35073	P0C214	O15015	0.56957
35074	P0C214	Q8WTW3	0.69685
35075	P0C214	Q6ZN79	0.42302
35076	P0C214	Q9BR76	0.23574
35077	P0C214	P58004	0.092801
35078	P0C214	Q5VT28	0.033188
35079	P0C214	Q9BRJ2	0.36156
35080	P0C214	P17025	0.28926
35081	P0C214	Q96CD0	0.2675
35082	P0C214	Q96EP1	0.64336
35083	P0C214	P51532	0.39256
35084	P0C214	P47974	0.194
35085	P0C214	A1A580	0.39837
35086	P0C214	Q9HAP2	0.63034
35087	P0C214	Q64ET8	0.47428
35088	P0C214	Q6UN15	1.0398
35089	P0C214	Q9BVP2	0.3075
35090	P0C214	Q8TBK2	0.51061
35091	P0C214	Q9BQ90	0.80878
35092	P0C214	Q99741	0.52308
35093	P0C214	Q9H981	1.0055
35094	P0C214	A1A5D9	0.45563
35095	P0C214	Q8IUC2	0.52687
35096	P0C214	Q16401	0.80987
35097	P0C214	Q92552	0.69067
35098	P0C214	Q9BXV9	0.086276
35099	P0C214	Q15937	0.31537
35100	P0C214	Q9UQK1	0.35407
35101	P0C214	Q8N8X9	0.18819
35102	P0C214	A6NHS1	0.12567
35103	P0C214	Q9Y3D3	0.69558
35104	P0C214	P18846	0.75675
35105	P0C214	Q86T75	0.51029
35106	P0C214	Q8WVK7	0.54854
35107	P0C214	O15371	0.79592
35108	P0C214	Q7Z3C6	0.10248
35109	P0C214	Q7Z6J9	0.7215
35110	P0C214	Q9P2W9	0.068198
35111	P0C214	B1AK76	0.93393
35112	P0C214	Q5T7N2	0.25309

35113	POC214	Q9NYF8	1.1468
35114	POC214	Q9Y4K1	0.63292
35115	POC214	Q9NSB4	0.38419
35116	POC214	P0DM35	0.69409
35117	POC214	P30566	0.087289
35118	POC214	P50502	0.66138
35119	POC214	Q0VDF9	0.44255
35120	POC214	O94993	0.14039
35121	POC214	P86481	0.086276
35122	POC214	P43364	0.79434
35123	POC214	Q6I9Y2	0.766
35124	POC214	Q9NWM3	0.090278
35125	POC214	Q8N3Z6	0.46382
35126	POC214	Q8N140	0.8463
35127	POC214	P23760	0.67312
35128	POC214	P18621	0.86057
35129	POC214	Q9UPZ3	0.71268
35130	POC214	Q8NHR7	0.24424
35131	POC214	Q6SJ96	0.18905
35132	POC214	Q17RM4	0.12352
35133	POC214	Q8N1X5	0.086276
35134	POC214	Q9NTI7	0.22737
35135	POC214	Q13541	0.92175
35136	POC214	A2AJT9	0.6136
35137	POC214	P0C838	0.26818
35138	POC214	Q8IZD2	0.26786
35139	POC214	Q9P1U0	0.082848
35140	POC214	P54259	0.83533
35141	POC214	P10073	0.39344
35142	POC214	Q8N6U2	0.28966
35143	POC214	Q9BTP7	0.8667
35144	POC214	Q86XD5	0.030246
35145	POC214	P36404	0.24677
35146	POC214	Q05877	0.52681
35147	POC214	Q8WW59	0.24079
35148	POC214	P52740	0.24611
35149	POC214	O96020	0.96219
35150	POC214	Q5EBM4	0.13091
35151	POC214	P55072	0.28502
35152	POC214	Q9H857	0.62076
35153	POC214	P63167	1.3679
35154	POC214	Q13951	0.58909
35155	POC214	Q9H2P0	0.22077
35156	POC214	Q96LA8	0.68372
35157	POC214	Q9H5Q4	0.62028
35158	POC214	Q9H0E3	0.52382
35159	POC214	Q9H0P0	0.35109
35160	POC214	Q8IY57	1.1019
35161	POC214	Q86T29	0.25925
35162	POC214	P18054	0.30229
35163	POC214	Q9BYR6	0.6322
35164	POC214	Q15723	1.1579
35165	POC214	O75182	1.1313
35166	POC214	Q96DE0	0.7047
35167	POC214	O00471	0.22108
35168	POC214	Q01130	0.69396
35169	POC214	Q9UJC5	0.52015
35170	POC214	P17980	0.4214
35171	POC214	A5D8V7	0.0016201
35172	POC214	Q8NBB4	0.29585
35173	POC214	O60783	0.55594
35174	POC214	O94892	0.2499
35175	POC214	O00570	0.77933
35176	POC214	Q6ZV56	0.086276
35177	POC214	Q9UJW3	0.70755
35178	POC214	Q16670	0.23889
35179	POC214	Q32MQ0	0.42743
35180	POC214	Q96CW6	0.56494
35181	POC214	Q13415	0.35275
35182	POC214	Q14181	0.56737
35183	POC214	Q5TAX3	0.65147
35184	POC214	P13645	0.56529
35185	POC214	Q9BXG8	0.43561
35186	POC214	Q8WWY3	0.33639
35187	POC214	Q8NE31	0.078699
35188	POC214	P43357	0.2675

35189	P0C214	Q658K8	0.45829
35190	P0C214	Q6W349	0.24108
35191	P0C214	A6NME0	0.047773
35192	P0C214	O75928	0.74882
35193	P0C214	Q9H4M3	0.20121
35194	P0C214	Q8TEK3	0.29571
35195	P0C214	Q7L3S4	0.30122
35196	P0C214	Q86YG4	0.5761
35197	P0C214	Q9BV20	0.22595
35198	P0C214	Q13347	0.8284
35199	P0C214	Q9BPW8	0.45234
35200	P0C214	K7EIZ4	0.086276
35201	P0C214	Q68DK7	0.5989
35202	P0C214	P62906	0.92893
35203	P0C214	O96028	0.26345
35204	P0C214	P0C7M6	0.060206
35205	P0C214	Q6RSH7	0.46226
35206	P0C214	O75638	1.0139
35207	P0C214	Q9BYP9	0.43378
35208	P0C214	Q5W0V3	0.66142
35209	P0C214	Q16236	0.64074
35210	P0C214	Q92670	0.2331
35211	P0C214	O94855	0.38305
35212	P0C214	Q8IZD4	1.0907
35213	P0C214	Q9H7L9	0.56618
35214	P0C214	Q96HR8	1.167
35215	P0C214	O75170	0.82705
35216	P0C214	P48595	0.92397
35217	P0C214	Q330K2	0.25672
35218	P0C214	P13667	0.33737
35219	P0C214	O94983	1.228
35220	P0C214	Q9H1Z4	0.35391
35221	P0C214	Q9UKT5	0.52047
35222	P0C214	O60573	0.63408
35223	P0C214	A6NKD2	0.69286
35224	P0C214	P11142	0.62486
35225	P0C214	Q96E16	0.61668
35226	P0C214	Q9NVN3	0.074523
35227	P0C214	P52741	0.2289
35228	P0C214	Q9NX40	0.46318
35229	P0C214	Q9NS39	0.24578
35230	P0C214	O15084	0.6866
35231	P0C214	Q9UKT8	0.33409
35232	P0C214	Q96F63	0.24937
35233	P0C214	Q9Y592	0.50132
35234	P0C214	Q3LI73	0.39837
35235	P0C214	Q14693	0.46935
35236	P0C214	A8MUQ0	0.8399
35237	P0C214	Q6Q759	0.50185
35238	P0C214	P60604	1.0001
35239	P0C214	Q96IR2	0.38935
35240	P0C214	Q16773	0.27839
35241	P0C214	Q9NRA8	1.0593
35242	P0C214	Q96GG9	0.35026
35243	P0C214	O43399	0.54427
35244	P0C214	Q9UHN1	0.14485
35245	P0C214	Q8N988	0.43475
35246	P0C214	Q6IB77	0.28275
35247	P0C214	Q9UNK9	0.24543
35248	P0C214	O15511	0.12637
35249	P0C214	Q96DE5	0.87198
35250	P0C214	Q14790	0.27072
35251	P0C214	Q9H116	0.27612
35252	P0C214	Q9C000	0.365
35253	P0C214	P0C7T4	0.086276
35254	P0C214	Q96NN9	0.30568
35255	P0C214	Q96PI1	0.38078
35256	P0C214	P55771	0.79826
35257	P0C214	P35900	0.6674
35258	P0C214	Q13042	1.1962
35259	P0C214	O14777	0.59584
35260	P0C214	Q9H7J1	0.2661
35261	P0C214	Q9BY41	0.36813
35262	P0C214	Q2NKJ3	0.42084
35263	P0C214	Q8N9T8	1.1831
35264	P0C214	Q7Z4W3	0.086276

35265	P0C214	Q02878	1.2069
35266	P0C214	Q8TF32	0.50756
35267	P0C214	Q8N8J6	0.15486
35268	P0C214	P31269	0.47447
35269	P0C214	Q9P2J5	0.50318
35270	P0C214	Q16589	0.22865
35271	P0C214	Q9H9L7	0.22197
35272	P0C214	Q15306	0.8414
35273	P0C214	P59923	0.3804
35274	P0C214	Q9H0C5	0.48074
35275	P0C214	Q5H9L2	1.0428
35276	P0C214	Q9NWT6	0.58393
35277	P0C214	Q9H714	0.40832
35278	P0C214	Q14241	0.34304
35279	P0C214	Q9NPG3	0.70205
35280	P0C214	Q86VM9	0.09871
35281	P0C214	O14737	0.268
35282	P0C214	Q9H1J1	1.2315
35283	P0C214	Q9NRL3	0.34365
35284	P0C214	Q96MW7	0.27837
35285	P0C214	P21695	0.34998
35286	P0C214	P25685	0.46384
35287	P0C214	P41212	0.65651
35288	P0C214	P16278	0.21674
35289	P0C214	O75427	0.42038
35290	P0C214	Q9BRT9	0.44262
35291	P0C214	Q96AV8	0.20486
35292	P0C214	Q9NZL9	0.40083
35293	P0C214	Q9HCM1	0.26865
35294	P0C214	P0CG29	0.29858
35295	P0C214	Q3I5F7	0.1505
35296	P0C214	Q9BZR8	0.43141
35297	P0C214	Q03938	0.51306
35298	P0C214	P17661	0.4509
35299	P0C214	Q4G112	0.18216
35300	P0C214	O60481	0.33449
35301	P0C214	Q9NVS2	0.62561
35302	P0C214	Q03701	0.2973
35303	P0C214	Q9Y314	1.1352
35304	P0C214	Q9Y222	0.86552
35305	P0C214	Q14525	0.51477
35306	P0C214	Q99502	0.12995
35307	P0C214	Q9Y3A2	0.92069
35308	P0C214	Q3KNS6	0.22926
35309	P0C214	Q8N720	0.90465
35310	P0C214	A8K5M9	0.71934
35311	P0C214	Q8IYK2	0.30734
35312	P0C214	Q96N16	0.9322
35313	P0C214	Q8NHM5	0.27376
35314	P0C214	P41214	0.62821
35315	P0C214	A6NN14	0.38021
35316	P0C214	Q8N137	0.71836
35317	P0C214	Q9BRH9	0.30964
35318	P0C214	Q9UGR2	0.39864
35319	P0C214	Q14674	0.26913
35320	P0C214	Q8WUM4	0.97897
35321	P0C214	Q96HA1	0.57849
35322	P03383	A6NN06	0.33834
35323	P03383	Q96BW9	0.35954
35324	P03383	Q969W8	0.27462
35325	P03383	Q5JQC4	0.33834
35326	P03383	Q5VUE5	0.17241
35327	P03383	Q6NSI4	0.079255
35328	P03383	Q14244	0.5153
35329	P03383	Q96LX8	0.21369
35330	P03383	P43351	0.3676
35331	P03383	Q6P3W6	0.38692
35332	P03383	Q9UD71	0.67767
35333	P03383	Q9UQR1	0.61182
35334	P03383	Q17RY6	0.52165
35335	P03383	Q8N3J3	0.19143
35336	P03383	Q7Z7A1	0.7888
35337	P03383	Q5BKU6	0.031284
35338	P03383	P35227	0.52285
35339	P03383	O75323	0.35152
35340	P03383	Q96MH2	0.94679

35341	P03383	Q86UA6	0.57753
35342	P03383	P08107	0.38424
35343	P03383	Q9Y618	0.8438
35344	P03383	Q7Z7J5	0.67519
35345	P03383	O95678	0.51989
35346	P03383	Q14683	0.30907
35347	P03383	Q8NEF3	0.16565
35348	P03383	Q6AI39	0.68802
35349	P03383	O14628	0.29029
35350	P03383	Q9BVL2	0.43872
35351	P03383	O95402	0.87263
35352	P03383	Q0VDD7	0.93007
35353	P03383	Q9BRK4	0.34086
35354	P03383	P78345	0.64395
35355	P03383	Q86U86	0.76916
35356	P03383	Q9UNSL	0.41276
35357	P03383	Q13573	0.49357
35358	P03383	Q14457	0.33128
35359	P03383	Q92681	0.19856
35360	P03383	Q8IXJ9	0.54504
35361	P03383	Q9H1B4	0.23695
35362	P03383	Q9Y6R9	0.56422
35363	P03383	Q7Z2E3	0.2593
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35366	P03383	A1A4G5	0.33834
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35368	P03383	P23490	0.56784
35369	P03383	A8MVA2	0.5733
35370	P03383	Q06330	0.39658
35371	P03383	O15504	0.31888
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35373	P03383	O14519	0.13334
35374	P03383	Q13761	0.6078
35375	P03383	P59037	0.45203
35376	P03383	O43167	0.39205
35377	P03383	Q9NYV4	0.021814
35378	P03383	Q5VSL9	0.5724
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35380	P03383	Q9BZS9	0.33834
35381	P03383	A6NGH7	0.20342
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35385	P03383	Q13228	0.78166
35386	P03383	Q96CW1	0.31134
35387	P03383	Q5VYM1	0.37766
35388	P03383	Q15329	0.97588
35389	P03383	Q5TGP6	0.018727
35390	P03383	O14879	0.51645
35391	P03383	Q9BQE6	0.36701
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35393	P03383	Q15723	0.97999
35394	P03383	Q6IPT2	0.87506
35395	P03383	Q9NQG7	0.14398
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35566	P03383	Q9P1A6	0.137
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36281	P03383	P61927	0.411
36282	P03383	Q96GN5	0.56091
36283	P03383	Q9UHR5	0.93707
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36285	P03383	P40424	0.4857
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36290	P03383	A8MXY4	0.2288
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36292	P03383	Q8TC05	0.51935
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36294	P03383	Q9UL33	0.24743
36295	P03383	A6NEN9	0.0027008
36296	P03383	A6NIX2	0.75949
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36718	P03383	P52655	0.90538
36719	P03383	Q6PI26	0.77654
36720	P03383	Q96B01	0.35757
36721	P03383	O75489	0.057326
36722	P03383	O00186	0.48359
36723	P03383	Q86WV1	0.32371
36724	P03383	P62304	0.521
36725	P03383	P25063	0.33834
36726	P03383	O95177	0.19708
36727	P03383	P30304	0.3727
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36735	P03383	Q15714	0.54694
36736	P03383	Q6ZS49	0.33834
36737	P03383	Q6MZT1	0.46489
36738	P03383	P62937	0.45262
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36740	P03383	Q96LI6	0.25802
36741	P03383	Q9BV73	0.41414
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36743	P03383	P62714	0.41756
36744	P03383	P0CE67	0.33834
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36748	P03383	P23769	0.26778
36749	P03383	Q6A162	0.58359
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36756	P03383	P22392	0.20977
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36847	P03383	Q9P2F5	0.24307
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36875	P03383	Q92733	0.56939
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36879	P03383	Q569G3	0.60341
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36888	P03383	Q2M2W7	0.60341
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36907	P03383	Q9NQ55	0.21665
36908	P03383	Q9BWU0	0.2928
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37612	P03383	P13985	0.33834
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37616	P03383	Q96E09	0.58513
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37618	P03383	Q9NV39	0.33261
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37620	P03383	P20042	0.26771

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37625	P03383	P61581	0.5351
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37627	P03383	Q9H0A8	0.49238
37628	P03383	P20226	0.71928
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37631	P03383	Q8N365	0.60341
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37667	P03383	Q8IXH6	0.82345
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37792	P03383	Q8N684	0.32421
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37794	P03383	Q9H6Q4	0.27335
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37806	P03383	Q9BSM1	0.77687
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38055	P03383	Q9UNY5	0.31738
38056	P03383	Q8IYA6	0.57502
38057	P03383	Q9H9H5	0.35518
38058	P03383	Q32M78	0.28869
38059	P03383	Q8N9N5	0.27636
38060	P03383	Q96FN9	0.33484
38061	P03383	Q96MK2	0.081085
38062	P03383	Q9UI72	0.33834
38063	P03383	Q86UC2	0.30443
38064	P03383	Q9P031	0.81631
38065	P03383	P39687	1.0796
38066	P03383	Q96MF4	0.36489
38067	P03383	Q60260	0.27859
38068	P03383	P42772	0.58894
38069	P03383	Q8TAY7	1.0726
38070	P03383	P23381	0.22013
38071	P03383	Q6P9F0	0.19357
38072	P03383	Q86VQ0	0.1928
38073	P03383	P20962	0.33415
38074	P03383	Q99551	0.49491
38075	P03383	Q9H6T0	0.10107
38076	P03383	Q49B96	0.29801

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38078	P03383	Q8NDZ0	0.097553
38079	P03383	Q5MJ07	0.61942
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38086	P03383	Q86W56	0.33308
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38093	P03383	Q8NCE8	0.4177
38094	P03383	P20700	0.19332
38095	P03383	Q5H9J7	0.64999
38096	P03383	Q9HAU5	0.57266
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38098	P03383	Q9UNN5	0.41708
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38105	P03383	Q96MN9	0.38989
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38107	P03383	Q9H063	0.32604
38108	P03383	A8MU93	0.60341
38109	P03383	B3EWG3	0.60341
38110	P03383	P60604	0.3359
38111	P03383	O75347	0.72807
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38116	P03383	O43633	0.17708
38117	P03383	Q9NNX9	0.74489
38118	P03383	Q6ZVN8	0.12842
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38121	P03383	Q5JSQ8	0.037193
38122	P03383	P80217	0.36639
38123	P03383	Q96MC2	0.010675
38124	P03383	P54098	0.28289
38125	P03383	Q9HCM7	0.64528
38126	P03383	Q9ULL0	0.37195
38127	P03383	Q8TEQ6	0.54295
38128	P03383	Q8IZ16	0.081599
38129	P03383	Q96S59	0.56496
38130	P03383	Q8WXW3	0.57582
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38132	P03383	Q96HI0	0.37799
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38140	P03383	Q6ZMR3	0.36755
38141	P03383	Q8WVZ9	0.39464
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38145	P03383	Q9H1I8	0.30774
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38148	P03383	Q9Y2T2	0.35672
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38151	P03383	Q9H040	0.2357
38152	P03383	Q9H0W9	0.39601

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38167	P03383	Q96QA6	0.033288
38168	P03383	Q9H0I3	0.17169
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38175	P03383	Q8IZ63	0.33834
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38180	P03383	Q14929	0.52616
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38184	P03383	Q6ZNK6	0.8446
38185	P03383	A6NFK2	0.068039
38186	P03383	Q9ULV5	0.21875
38187	P03383	Q9NZQ3	0.49337
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38220	P03383	Q14980	0.79458
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38225	P03383	Q43747	0.44917
38226	P03383	Q5TA31	0.30561
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38244	P03383	Q96BW1	0.086196
38245	P03383	P0DM35	0.529
38246	P03383	Q9GZU7	0.29175
38247	P03383	O94855	0.1654
38248	P03383	Q01546	0.58419
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38250	P03383	Q96I59	0.4042
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38308	P03383	Q9BYR5	0.5733
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38413	P03383	O00422	0.97042
38414	P03383	O60304	0.16017
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38416	P03383	O60711	0.2555
38417	P03383	Q86VP3	0.34738
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38420	P03383	Q5T0J7	0.28813
38421	P03383	Q9P1Y5	0.44528
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38459	P03383	Q6ZNG1	0.25401
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38461	P03383	Q99081	0.34951
38462	P03383	P0C7V6	0.60338
38463	P03383	Q9ULH7	0.68993
38464	P03383	Q96E29	0.3962
38465	P03383	Q9Y3B9	0.30359
38466	P03383	Q9HD33	0.57229
38467	P03383	Q8N4S0	0.60341
38468	P03383	Q8ND07	0.54713
38469	P03383	Q8N7L0	0.091739
38470	P03383	Q9NZE8	0.53403
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38472	P03383	Q8NEF9	0.39175
38473	P03383	I3L0S3	0.34646
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38475	P03383	Q6ZTN6	0.27322
38476	P03383	Q8N3X6	0.51199
38477	P03383	Q96CS3	0.33097
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38482	P03383	Q96QD9	0.5305
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38485	P03383	Q9NX70	0.79367
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38487	P03383	P07476	0.38136
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38490	P03383	Q5JUK9	0.21911
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38493	P03383	Q8N398	0.36393
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38495	P03383	A6NKF2	0.33062
38496	P03383	Q5HYI7	0.73558
38497	P03383	Q09MP3	0.34414
38498	P03383	P57081	0.63456
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38503	P03383	P55145	0.31721
38504	P03383	A5PL33	0.55938
38505	P03383	Q96LY2	0.57292
38506	P03383	Q08J23	0.47773
38507	P03383	Q8N7J2	0.6722
38508	P03383	Q9H9H4	0.4919
38509	P03383	A6NGS2	0.2932
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38511	P03383	Q14657	0.95856
38512	P03383	O43541	0.42624
38513	P03383	P60002	0.66149
38514	P03383	Q6DKK2	0.6845
38515	P03383	Q9H2K0	0.24465
38516	P03383	Q9UN79	0.68845
38517	P03383	A6NF36	0.3503
38518	P03383	A5YKK6	0.7659
38519	P03383	P52743	0.2567
38520	P03383	Q6IQ49	0.21138
38521	P03383	Q13765	0.78923
38522	P03383	O75909	0.85254
38523	P03383	Q9UL46	0.25243
38524	P03383	Q9UH77	0.33388
38525	P03383	O14746	0.39177
38526	P03383	Q8IUB9	0.33834
38527	P03383	Q8N1D5	0.15646
38528	P03383	Q6NXS1	0.69184
38529	P03383	P78316	0.78507
38530	P03383	P49756	0.29207
38531	P03383	Q05BQ5	0.04253
38532	P03383	P63165	0.64365



38533	P03383	Q5SZD1	0.023403
38534	P03383	O95149	0.19276
38535	P03383	P0DKL9	0.5828
38536	P03383	P15407	0.45471
38537	P03383	Q6P9B9	0.28942
38538	P03383	Q9H6K5	0.60341
38539	P03383	Q9HB03	0.41347
38540	P03383	P62269	0.49042
38541	P03383	Q9Y2K5	0.23073
38542	P03383	Q8NF99	0.16408
38543	P03383	Q9Y6X2	0.54936
38544	P03383	O95190	0.55572
38545	P03383	O60225	0.079455
38546	P03383	Q8WXQ3	0.83891
38547	P03383	Q96LT6	0.22347
38548	P03383	C9J3I9	0.38038
38549	P03383	Q99732	0.19792
38550	P03383	Q9P015	0.1606
38551	P03383	Q68CZ6	0.32838
38552	P03383	P57721	0.20649
38553	P03383	Q8IV20	0.29543
38554	P03383	P28702	0.26666
38555	P03383	Q9HCM9	0.35128
38556	P03383	P0DI81	0.7535
38557	P03383	Q6UWF3	0.36323
38558	P03383	Q9NY87	0.57852
38559	P03383	P68104	0.53926
38560	P03383	Q9UNM6	0.085308
38561	P03383	Q9ULJ3	0.39559
38562	P03383	Q5T7N2	0.091723
38563	P03383	Q9H3K6	0.35317
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38569	P03383	Q9HCD5	0.79563
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38572	P03383	Q9BQI5	0.16211
38573	P03383	Q96MF0	0.11716
38574	P03383	P50750	0.36746
38575	P03383	Q6P1M9	0.17996
38576	P03383	P0C7T7	0.33834
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38578	P03383	Q8N4B5	0.57747
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38580	P03383	Q99848	0.15555
38581	P03383	Q8N5A5	0.6163
38582	P03383	Q9NPB6	0.43672
38583	P03383	Q9BZQ2	0.29028
38584	P03383	Q96BP2	0.8499
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38586	P03383	Q7L190	0.64766
38587	P03383	Q9P2M7	0.26775
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38592	P03383	Q9H467	0.72315
38593	P03383	D6RB28	0.52432
38594	P03383	Q9UHQ7	0.43355
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38597	P03383	Q12837	0.33374
38598	P03383	Q5ZEY9	0.48598
38599	P03383	Q12968	0.45125
38600	P03383	Q02543	0.49535
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38605	P03383	Q9UFW8	0.155
38606	P03383	O43745	0.47425
38607	P03383	Q9NZ81	0.9346
38608	P03383	Q01201	0.72389

38609	P03383	Q5VSR9	0.61942
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38612	P03383	Q96PM5	0.29113
38613	P03383	Q8TCJ0	0.74263
38614	P03383	P29966	0.62444
38615	P03383	P35711	0.71013
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38618	P03383	Q15697	0.28011
38619	P03383	Q9UGY1	0.12505
38620	P03383	P14678	0.58821
38621	P03383	Q02878	0.66087
38622	P03383	Q8N7K0	0.24149
38623	P03383	Q01543	0.1906
38624	P03383	Q9H7T3	0.12096
38625	P03383	Q86UE3	0.23295
38626	P03383	Q9NSI6	0.6037
38627	P03383	Q8NBZ0	0.90397
38628	P03383	Q8ND56	0.55511
38629	P03383	Q9Y2Z4	0.26198
38630	P03383	Q68DY1	0.32025
38631	P03383	Q9Y6X8	0.53068
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38634	P03383	P0CW27	0.018055
38635	P03383	Q9NQ48	0.12647
38636	P03383	P14324	0.10623
38637	P03383	Q3SY00	0.62841
38638	P03383	Q9BT92	0.33446
38639	P03383	Q9NY12	0.22737
38640	P03383	Q6ZRP0	0.60341
38641	P03383	Q8IXR9	0.10045
38642	P03383	Q9UKN5	0.066988
38643	P03383	P0CW21	0.33834
38644	P03383	Q96N11	0.34587
38645	P03383	Q8IZ40	0.38482
38646	P03383	Q9Y333	0.49091
38647	P03383	Q5VX52	0.019872
38648	P03383	P51531	0.50379
38649	P03383	P14625	0.20262
38650	P03383	Q7L2H7	0.36435
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38653	P03383	A0AUK8	0.10717
38654	P03383	Q156A1	0.33834
38655	P03383	Q99615	0.54599
38656	P03383	Q9UNN4	0.20958
38657	P03383	P42768	0.12831
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38659	P03383	P15822	0.59407
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38661	P03383	O15379	0.40605
38662	P03383	P53801	0.42574
38663	P03383	O00268	0.83526
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38667	P03383	O15350	0.22465
38668	P03383	A0JNW5	0.53349
38669	P03383	P07196	0.52671
38670	P03383	Q9UIV1	0.91432
38671	P03383	Q6ZUU3	0.33834
38672	P03383	Q13278	0.34871
38673	P03383	C9JBD0	0.36886
38674	P03383	Q9UGK3	0.42667
38675	P03383	P11532	0.24507
38676	P03383	Q8WW24	0.17817
38677	P03383	Q9Y6E7	0.28574
38678	P03383	Q8IXM7	0.24929
38679	P03383	Q5VTH2	0.45383
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38681	P03383	Q9UER7	0.7258
38682	P03383	A6NDU8	0.15103
38683	P03383	Q5VVC0	0.2007
38684	P03383	Q96Q89	0.27282

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38686	P03383	Q5JTC6	0.65271
38687	P03383	P25786	0.43914
38688	P03383	O75698	0.33834
38689	P03383	Q99460	0.1055
38690	P03383	Q6ZV50	0.073272
38691	P03383	Q01081	0.40307
38692	P03383	P20810	0.16572
38693	P03383	O00479	0.43416
38694	P03383	P55895	0.41682
38695	P03383	A8MT69	0.2372
38696	P03383	Q9BRT9	0.30017
38697	P03383	O95782	0.22651
38698	P03383	P62837	0.38919
38699	P03383	Q0VFX4	0.35784
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38701	P03383	C9J3V5	0.32123
38702	P03383	Q9BYV8	0.40034
38703	P03383	Q3LI63	0.33834
38704	P03383	Q8N1V8	0.025816
38705	P03383	Q75MW2	0.45257
38706	P03383	A6NNL0	0.5011
38707	P03383	O94842	0.39331
38708	P03383	A6NI86	0.52225
38709	P03383	Q15759	0.25235
38710	P03383	Q86V97	0.39464
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38712	P03383	Q8N8K9	0.026573
38713	P03383	Q9BTX1	0.43961
38714	P03383	Q96RS0	0.41012
38715	P03383	Q8IZU0	0.61185
38716	P03383	Q8N6T0	0.12265
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38718	P03383	A6XGL0	0.27902
38719	P03383	Q9UI25	0.33834
38720	P03383	H0Y7S4	0.089818
38721	P03383	Q96DN6	0.45082
38722	P03383	Q9BT25	0.33094
38723	P03383	Q96PV7	0.59867
38724	P03383	Q68EN5	0.11292
38725	P03383	Q8WU39	0.26769
38726	P03383	Q8N9Y4	0.72845
38727	P03383	Q5VIY5	0.29921
38728	P03383	Q9NX40	0.26588
38729	P03383	Q68D10	0.60341
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38731	P03383	Q49AJ0	0.12503
38732	P03383	Q8N699	0.49772
38733	P03383	Q9UGC7	0.30099
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38735	P03383	Q8TE02	0.90336
38736	P03383	Q9P2M1	0.31745
38737	P03383	A5PLN7	0.60341
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38739	P03383	Q7Z2X7	0.57687
38740	P03383	Q9UIF9	0.50176
38741	P03383	Q9NZL4	0.30695
38742	P03383	Q86TB9	0.56068
38743	P03383	Q9BRR8	0.66731
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38745	P03383	Q5BJF2	0.1819
38746	P03383	Q9Y3F4	0.55991
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38751	P03383	Q8NDA8	0.37817
38752	P03383	P10074	0.16061
38753	P03383	P82970	0.4306
38754	P03383	Q86VS8	0.23067
38755	P03383	Q9NR77	0.31354
38756	P03383	Q00613	0.68448
38757	P03383	Q07627	0.52964
38758	P03383	Q9UMS0	0.65276
38759	P03383	Q8TEE9	0.81598
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38765	P03383	P0DMC3	0.33834
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38779	P03383	Q9HB07	0.14231
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38781	P03383	Q86YV9	0.62559
38782	P03383	A6NES4	0.1852
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38788	P03383	O60813	0.26448
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38790	P03383	P0C1Z6	0.8408
38791	P03383	Q96HA8	0.73105
38792	P03383	Q6XCG6	0.33834
38793	P03383	Q6U7Q0	0.17247
38794	P03383	Q7Z5D8	0.24968
38795	P03383	Q9H788	0.67868
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38797	P03383	Q9BRG1	0.74081
38798	P03383	P25963	0.43081
38799	P03383	Q9BVG4	0.18737
38800	P03383	Q96GW9	0.22684
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38808	P03383	Q9NRY5	0.68478
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38813	P03383	Q6ZS52	0.33834
38814	P03383	Q9NPG3	0.58938
38815	P03383	Q86TS9	0.099869
38816	P03383	Q9Y375	0.38186
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38818	P03383	Q07666	0.31705
38819	P03383	Q5T319	0.33834
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38821	P03383	A6NL82	0.35039
38822	P03383	Q9P0W5	0.51431
38823	P03383	Q86V48	0.65901
38824	P03383	Q8IWF6	0.31346
38825	P03383	Q8N0Y7	0.49853
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38827	P03383	Q86YI8	0.33367
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38831	P03383	Q96RE7	0.66502
38832	P03383	Q9NZM4	0.89349
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38834	P03383	P78344	0.21888
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38836	P03383	Q8N140	0.59535

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38839	P03383	Q86TU6	0.61687
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38884	P03383	O94921	0.22444
38885	P03383	Q9UKV8	0.60319
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38887	P03383	P50749	0.5281
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38917	P03383	Q9P0W2	0.50666
38918	P03383	Q9BYQ0	0.5733
38919	P03383	Q9UJG1	0.55561
38920	P03383	Q6ZW54	0.74611
38921	P03383	Q9BYQ5	0.5733
38922	P03383	Q96IT1	0.44189
38923	P03383	P31269	0.44115
38924	P03383	Q96IM9	0.088354
38925	P03383	Q9Y312	0.16389
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38927	P03383	Q6P1L5	1.0032
38928	P03383	Q9BQN1	0.61131
38929	P03383	Q8IVT2	0.68155
38930	P03383	Q3LI72	0.33834
38931	P03383	Q9Y6K5	0.023755
38932	P03383	Q3LI62	0.33834
38933	P03383	Q9H4H8	0.21261
38934	P03383	Q6IN85	0.18293
38935	P03383	Q8WWB3	0.02676
38936	P03383	Q9Y266	0.57784
38937	P03383	Q8IY63	0.26129
38938	P03383	Q3ZCT1	0.17115
38939	P03383	Q99496	0.28868
38940	P03383	Q9H8W2	0.091024
38941	P03383	P36402	0.37945
38942	P03383	Q8TAQ2	1.1845
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38945	P03383	Q8N5J4	0.26526
38946	P03383	P58004	0.25823
38947	P03383	Q8IXM3	0.42103
38948	P03383	Q15573	0.34054
38949	P03383	Q9Y3A5	0.48976
38950	P03383	Q02833	0.37246
38951	P03383	Q68DL7	0.33834
38952	P03383	P35232	0.33603
38953	P03383	P0CG42	0.33834
38954	P03383	Q96E14	0.47326
38955	P03383	Q494R0	0.33834
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38960	P03383	Q3SY84	0.52727
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38965	P03383	O95999	0.093946
38966	P03383	Q9H4A6	0.33732
38967	P03383	Q99543	0.25247
38968	P03383	Q9HD42	0.73346
38969	P03383	Q6K0P9	0.10263
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38972	P03383	Q5TCQ9	0.37905
38973	P03383	Q9UHJ3	0.1228
38974	P03383	P28065	0.44968
38975	P03383	Q13501	0.26256
38976	P03383	Q9Y4H4	0.2416
38977	P03383	E9PB15	0.0042209
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38979	P03383	P04264	0.19973
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38981	P03383	Q8N972	0.24149
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38983	P03383	Q5VVS0	0.67676
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38985	P03383	Q16775	0.22145
38986	P03383	Q9P016	0.37222
38987	P03383	Q69YW0	0.093457
38988	P03383	O43918	0.74097

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38991	P03383	Q9H410	0.5989
38992	P03383	Q9P0U1	0.32612
38993	P03383	Q5T7W7	0.60341
38994	P03383	Q15027	0.42307
38995	P03383	Q5VWI1	0.80294
38996	P03383	Q8N5R6	0.33122
38997	P03383	P51116	0.37914
38998	P03383	Q96FX7	0.18355
38999	P03383	O60784	0.15708
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39002	P03383	P22528	0.26317
39003	P03383	Q29RF7	0.74862
39004	P03383	Q9P1F3	0.52931
39005	P03383	Q8IZD4	0.595
39006	P03383	O60829	0.5376
39007	P03383	Q8IX12	0.80164
39008	P03383	Q5VXH4	0.28378
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39010	P03383	P41212	0.58689
39011	P03383	Q9NWV8	0.36308
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39016	P03383	O94992	1.1343
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39020	P03383	Q5SRE5	0.42425
39021	P03383	P50402	0.23574
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39023	P03383	Q96KT6	0.33834
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39025	P03383	P57076	0.25301
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39036	P03383	Q9NY74	0.73146
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39038	P03383	Q8WVK2	0.59398
39039	P03383	Q8WUF5	0.61688
39040	P03383	Q8WY41	0.25604
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39042	P03383	P28066	0.47523
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39059	P03383	Q9UI56	0.33834
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39061	P03383	Q99613	0.44281
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39075	P03383	Q96IR2	0.25401
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39078	P03383	Q96C57	0.33532
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39084	P03383	Q3SYG4	0.20599
39085	P03383	A8MXZ3	0.33834
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39089	P03383	Q9UHB7	1.0522
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39092	P03383	Q8IV33	0.39065
39093	P03383	P82932	0.23783
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39110	P03383	Q8IX90	0.40584
39111	P03383	Q5JQF7	0.33834
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39113	P03383	Q09666	0.45383
39114	P03383	P35908	0.4615
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39119	P03383	Q15007	0.43222
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39169	P03383	Q5T5Y3	0.22747
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39211	P03383	Q8TF63	0.44746
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39378	P03383	Q6Q759	0.48806
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39383	P03383	P0C866	0.0011014
39384	P03383	Q9BYJ9	0.52267
39385	P03383	P48634	0.55947
39386	P03383	Q96EH5	0.4722
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39427	P03383	Q9H9J2	0.25343
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39430	P03383	Q63ZY3	0.66332
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40282	P03383	Q5MNV8	0.27322
40283	P03383	Q86UQ8	0.19547
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40285	P03383	Q8IUG1	0.55334
40286	P03383	P18621	0.3873
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40308	P03383	Q6V9R5	0.30957
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40724	P03383	Q9Y314	0.65943
40725	P03383	Q96DI7	0.46061
40726	P03383	Q16526	0.23693
40727	P03383	Q9BYG4	0.43699
40728	P03383	Q8N9M1	0.16327
40729	P03383	Q8IYB9	0.24064
40730	P03383	Q70EL1	0.26939
40731	P03383	Q96MC4	0.62518
40732	P03383	Q9C073	0.65824
40733	P03383	Q5H9M0	0.70277
40734	P03383	Q7KZ85	0.27839
40735	P03383	O60888	0.25416
40736	P03383	Q8N5I9	0.60341

40737	P03383	Q69YI7	0.87175
40738	P03383	P27348	0.19417
40739	P03383	Q9H5Z6	0.60341
40740	P03383	Q13129	0.47987
40741	P14079	Q9Y3C0	0.41839
40742	P14079	Q15255	1.1715
40743	P14079	P31751	0.16487
40744	P14079	Q96AQ9	0.73088
40745	P14079	Q6ZQY7	1.1125
40746	P14079	Q969J2	0.56913
40747	P14079	A6NNH0	1.4681
40748	P14079	Q5VV42	1.0005
40749	P14079	Q9H6X5	0.31805
40750	P14079	P04083	0.43219
40751	P14079	Q96DC7	1.6464
40752	P14079	Q9H0U9	0.51138
40753	P14079	P0DM35	1.3448
40754	P14079	P36543	0.39776
40755	P14079	Q96M91	1.8372
40756	P14079	Q6ZRN7	1.1715
40757	P14079	Q14CX7	0.84768
40758	P14079	O14776	1.1822
40759	P14079	Q5SRI9	1.3902
40760	P14079	Q63HN1	1.1198
40761	P14079	Q96LP4	0.73938
40762	P14079	Q5TC84	0.7178
40763	P14079	Q5EBL4	0.73509
40764	P14079	P02808	1.1392
40765	P14079	Q5TAQ9	0.37638
40766	P14079	Q13228	1.3362
40767	P14079	Q9UQL6	0.46344
40768	P14079	O60671	0.96695
40769	P14079	Q15629	0.79113
40770	P14079	Q9NQ39	0.23329
40771	P14079	P51854	0.47389
40772	P14079	Q6P1M9	0.81288
40773	P14079	Q96JN0	1.4954
40774	P14079	A8MUM7	0.12848
40775	P14079	Q9Y2S0	0.29856
40776	P14079	Q15637	0.25535
40777	P14079	Q8IV31	0.97018
40778	P14079	Q16655	1.2149
40779	P14079	O94923	0.49546
40780	P14079	Q8NDH6	0.73756
40781	P14079	Q7L2K0	0.59878
40782	P14079	F5H4A9	1.2485
40783	P14079	Q5VZR2	1.8285
40784	P14079	P0CH98	0.42881
40785	P14079	Q15916	0.1949
40786	P14079	Q70EL1	0.69532
40787	P14079	Q9NZ81	1.8162
40788	P14079	Q8NFB5	0.66106
40789	P14079	O00625	0.97985
40790	P14079	P28838	1.3197
40791	P14079	Q8N6M3	1.0833
40792	P14079	Q96SC8	0.29941
40793	P14079	Q3T8J9	0.82292
40794	P14079	Q9BWM5	0.60552
40795	P14079	Q9BXW6	0.33207
40796	P14079	Q9BRP4	0.81334
40797	P14079	P98168	0.74722
40798	P14079	P59894	0.80039
40799	P14079	O43809	0.85007
40800	P14079	Q5JTD0	1.8485
40801	P14079	O75031	1.0577
40802	P14079	Q6P4F2	0.24347
40803	P14079	Q8TCE6	1.6459
40804	P14079	Q8N4C0	0.91852
40805	P14079	Q9UH36	0.93836
40806	P14079	C9J302	1.1223
40807	P14079	O60225	0.42957
40808	P14079	Q49AS3	1.3238
40809	P14079	Q494U1	0.5073
40810	P14079	P01215	0.90315
40811	P14079	Q9NY59	0.42209
40812	P14079	Q2TAM9	1.8285

40813	P14079	A0A183	1.1715
40814	P14079	Q96QK1	0.98148
40815	P14079	P07199	1.1986
40816	P14079	Q6VY07	0.92802
40817	P14079	A0JNW5	1.2177
40818	P14079	Q8IYX0	1.0042
40819	P14079	Q7Z7L8	1.8351
40820	P14079	Q96NU1	0.4352
40821	P14079	Q8N7L0	0.86339
40822	P14079	Q8NHY6	0.81594
40823	P14079	Q9Y3U8	1.0283
40824	P14079	A8MZ97	1.6986
40825	P14079	Q8IYW9	1.0075
40826	P14079	Q6P1N9	0.79526
40827	P14079	Q9NRJ2	1.1715
40828	P14079	Q9NQG7	0.39655
40829	P14079	Q9BQC6	1.4778
40830	P14079	Q5XUX0	1.0485
40831	P14079	Q5TGZ0	0.83596
40832	P14079	Q9NV72	1.0073
40833	P14079	Q9H9H4	1.269
40834	P14079	O15442	0.48908
40835	P14079	A7E2V4	1.9641
40836	P14079	Q02952	1.0846
40837	P14079	P56181	1.239
40838	P14079	P27635	0.87172
40839	P14079	Q92664	0.42258
40840	P14079	A6NH13	1.0855
40841	P14079	Q9BQD7	0.82293
40842	P14079	Q32M92	0.23551
40843	P14079	Q8IXM3	1.0197
40844	P14079	Q15691	0.89408
40845	P14079	Q8N9N8	0.29399
40846	P14079	Q14585	0.57154
40847	P14079	Q6AW86	0.51329
40848	P14079	P48552	0.73066
40849	P14079	B3KS81	0.45711
40850	P14079	Q6NUQ1	0.7997
40851	P14079	O95373	1.3001
40852	P14079	P15622	0.62309
40853	P14079	Q6R327	0.33379
40854	P14079	P52738	0.54251
40855	P14079	Q8N377	1.1715
40856	P14079	Q96BQ5	1.416
40857	P14079	Q96EK7	0.28299
40858	P14079	P22695	0.12658
40859	P14079	Q3SXP7	1.095
40860	P14079	Q4VC31	0.033046
40861	P14079	Q96C00	0.42501
40862	P14079	Q7Z5D8	1.2576
40863	P14079	Q9UKA4	0.38977
40864	P14079	Q5SXM2	0.72564
40865	P14079	O43292	0.53737
40866	P14079	Q8NEQ5	0.85625
40867	P14079	Q14980	1.3058
40868	P14079	P0CG08	1.0766
40869	P14079	Q5XUX1	0.56221
40870	P14079	Q9Y5Y5	0.71972
40871	P14079	Q8IYW4	0.30078
40872	P14079	Q13952	0.77627
40873	P14079	O60284	0.22779
40874	P14079	Q7Z4L0	0.67613
40875	P14079	Q9H1X1	0.82265
40876	P14079	Q9UHU1	1.1715
40877	P14079	Q96M15	0.39576
40878	P14079	Q8WYA0	1.2527
40879	P14079	Q6PF06	1.2773
40880	P14079	Q5TBE3	0.82065
40881	P14079	A8MPS7	0.3767
40882	P14079	Q9UJN7	0.57015
40883	P14079	P52815	0.96821
40884	P14079	Q9BYG7	0.27853
40885	P14079	O15194	0.44063
40886	P14079	Q9H3L0	1.3222
40887	P14079	A6NF36	1.0589
40888	P14079	P84098	0.86734

40889	P14079	P46779	1.3548
40890	P14079	Q9UQR1	0.83709
40891	P14079	P28065	1.1615
40892	P14079	Q8N9K3	1.3222
40893	P14079	Q9GZN8	0.79115
40894	P14079	Q15379	0.59534
40895	P14079	Q8NBV4	1.3093
40896	P14079	O75886	1.3933
40897	P14079	Q6ZNR8	1.1715
40898	P14079	Q0D2J5	0.69509
40899	P14079	Q8NDD1	0.47656
40900	P14079	A6NFL8	1.4427
40901	P14079	Q9HBX3	1.1715
40902	P14079	Q5RI15	0.74516
40903	P14079	Q96CS4	0.5913
40904	P14079	Q96E40	0.38943
40905	P14079	Q658L1	1.501
40906	P14079	Q8IWP9	1.6301
40907	P14079	Q8NA92	1.2179
40908	P14079	A7XYQ1	0.98473
40909	P14079	Q9BZP3	0.92288
40910	P14079	P07320	1.3894
40911	P14079	Q9UPW6	0.68145
40912	P14079	Q9UGB4	1.1715
40913	P14079	Q8NI29	0.76269
40914	P14079	Q9UK12	0.63029
40915	P14079	Q9H204	1.3275
40916	P14079	Q6P0N0	1.2835
40917	P14079	Q8TF09	1.049
40918	P14079	Q9BXU3	1.1938
40919	P14079	A6NKH3	0.95372
40920	P14079	Q7L2H7	0.76803
40921	P14079	Q9H1C7	1.2485
40922	P14079	Q9UHB4	0.63776
40923	P14079	Q9UDX5	0.57616
40924	P14079	Q86XF0	0.35153
40925	P14079	Q2M2Z5	1.5377
40926	P14079	Q13492	0.28001
40927	P14079	A6NMK8	1.3357
40928	P14079	Q9BQ08	1.0741
40929	P14079	Q04837	0.76111
40930	P14079	Q9BYD6	1.1168
40931	P14079	Q14525	0.89111
40932	P14079	Q9NSD4	0.66428
40933	P14079	Q9BW72	0.83563
40934	P14079	Q15560	1.0059
40935	P14079	Q9NUR3	0.90496
40936	P14079	O75556	0.70904
40937	P14079	Q9Y296	0.39562
40938	P14079	Q9H8S5	0.3842
40939	P14079	E9PIF3	0.30565
40940	P14079	Q96CW1	0.68662
40941	P14079	Q8WUH1	0.37459
40942	P14079	O95070	0.70185
40943	P14079	Q8N944	1.6794
40944	P14079	Q99436	1.2175
40945	P14079	Q96A56	1.4257
40946	P14079	Q8TD35	1.3222
40947	P14079	P00374	0.21736
40948	P14079	Q8N402	0.27494
40949	P14079	H0UI37	0.85048
40950	P14079	P15259	0.86177
40951	P14079	O95159	1.099
40952	P14079	Q9Y5B9	0.30282
40953	P14079	Q8N2W9	0.90686
40954	P14079	P07316	0.12389
40955	P14079	Q32MQ0	1.1263
40956	P14079	H3BPM6	0.25199
40957	P14079	Q8N1Y9	1.1715
40958	P14079	Q86VS3	0.45687
40959	P14079	Q8N9N2	0.39914
40960	P14079	Q6ZWC4	0.86514
40961	P14079	Q7Z2T5	0.46995
40962	P14079	Q7L8J4	0.9745
40963	P14079	O43516	0.46823
40964	P14079	Q8IXQ4	1.3222



40965	P14079	Q96KP6	0.15225
40966	P14079	Q9HBT8	0.51539
40967	P14079	Q96AB6	0.2333
40968	P14079	P52741	0.53765
40969	P14079	Q9HAK2	0.16611
40970	P14079	Q5THR3	0.37892
40971	P14079	A2VDF0	0.88775
40972	P14079	Q9NVL8	0.63386
40973	P14079	Q9UHY8	0.66549
40974	P14079	O75192	0.99163
40975	P14079	P17707	0.29124
40976	P14079	Q9P0N5	1.1594
40977	P14079	Q9BW11	0.43586
40978	P14079	Q8WWM9	0.471
40979	P14079	O75112	0.5035
40980	P14079	Q12986	0.33329
40981	P14079	O14519	0.886
40982	P14079	Q5VZT2	0.81383
40983	P14079	Q92844	0.66016
40984	P14079	Q6P6B1	1.3222
40985	P14079	A6NNJ1	0.57067
40986	P14079	Q96FX2	1.161
40987	P14079	Q8IZC7	0.61073
40988	P14079	Q3ZCQ8	0.28227
40989	P14079	O14810	0.59511
40990	P14079	Q04725	0.78858
40991	P14079	Q6VN20	0.4612
40992	P14079	P51959	0.48417
40993	P14079	P52565	0.18799
40994	P14079	Q9BXL7	0.24486
40995	P14079	P35711	0.96546
40996	P14079	Q96D03	0.5216
40997	P14079	Q3LIE5	0.892
40998	P14079	Q9H668	0.31154
40999	P14079	Q8IZU0	1.532
41000	P14079	Q7Z4U5	1.5349
41001	P14079	Q9BPZ2	1.3481
41002	P14079	Q9NRQ2	0.48833
41003	P14079	Q99623	1.1241
41004	P14079	P22528	1.0119
41005	P14079	Q9NQX1	0.72452
41006	P14079	P54274	0.56024
41007	P14079	P52758	0.39559
41008	P14079	Q8IUC0	1.1516
41009	P14079	C9JC47	1.1715
41010	P14079	Q5GJ75	0.27108
41011	P14079	Q9BUV8	0.62727
41012	P14079	O43261	0.67208
41013	P14079	P05937	0.28807
41014	P14079	P36542	0.49027
41015	P14079	Q3SY52	0.62154
41016	P14079	Q8TE04	0.90801
41017	P14079	P16452	0.34774
41018	P14079	Q8IYJ2	1.5051
41019	P14079	O43674	1.2573
41020	P14079	A6NMX2	0.17668
41021	P14079	E9PGG2	0.24936
41022	P14079	Q9Y4P9	0.97187
41023	P14079	O43615	0.30925
41024	P14079	Q9Y4G2	0.13146
41025	P14079	Q96ST2	0.72145
41026	P14079	B1ATL7	0.81221
41027	P14079	O00463	0.43789
41028	P14079	Q12929	0.30285
41029	P14079	Q9H320	1.5357
41030	P14079	Q9BZ68	0.025392
41031	P14079	Q9NQW6	0.4981
41032	P14079	Q86YV9	1.5691
41033	P14079	Q14CX5	1.2485
41034	P14079	Q9NR46	0.47374
41035	P14079	Q5K130	0.88918
41036	P14079	A8MUX0	1.1313
41037	P14079	A6NCX1	0.11595
41038	P14079	O75324	1.0428
41039	P14079	A8MUN3	1.1715
41040	P14079	Q92552	1.0019

41041	P14079	Q8N5M1	0.91708
41042	P14079	P62875	0.84581
41043	P14079	Q4G0U5	0.52697
41044	P14079	Q09MP3	1.014
41045	P14079	Q8IV48	0.20094
41046	P14079	P0CW19	0.54513
41047	P14079	Q14CS0	0.48019
41048	P14079	Q8N831	0.55345
41049	P14079	P80297	0.77432
41050	P14079	Q13772	0.49546
41051	P14079	P51504	0.65804
41052	P14079	Q96FV2	1.1957
41053	P14079	Q96G79	0.72618
41054	P14079	A6NC05	0.66693
41055	P14079	Q9H0E3	1.6465
41056	P14079	O00422	1.0835
41057	P14079	Q8NHW6	1.031
41058	P14079	P48454	0.33441
41059	P14079	Q8N9P6	1.1715
41060	P14079	O75161	1.6782
41061	P14079	Q9UHZ2	1.1715
41062	P14079	Q0VF49	1.1715
41063	P14079	Q13362	0.25213
41064	P14079	Q9NVR5	1.3841
41065	P14079	Q8N9Z0	0.9663
41066	P14079	A5PLL7	1.1359
41067	P14079	Q3C1V9	1.0392
41068	P14079	P78346	1.0339
41069	P14079	O60244	0.67177
41070	P14079	O43196	1.0274
41071	P14079	Q8NG48	0.32738
41072	P14079	P11388	0.33994
41073	P14079	Q9H446	0.56221
41074	P14079	Q8NA72	0.59252
41075	P14079	Q3LI67	1.1715
41076	P14079	P48775	0.53275
41077	P14079	O15069	0.45685
41078	P14079	Q8N895	0.68858
41079	P14079	Q12894	0.46041
41080	P14079	Q49B96	0.79923
41081	P14079	Q9Y2J2	0.70726
41082	P14079	P0CJ70	1.3031
41083	P14079	P35579	0.52374
41084	P14079	Q96MU7	1.1366
41085	P14079	Q86V20	1.3863
41086	P14079	Q6ZUT6	1.1354
41087	P14079	Q99459	0.89078
41088	P14079	Q9BXS1	0.57049
41089	P14079	Q9Y333	0.70283
41090	P14079	P41218	0.54682
41091	P14079	Q8N573	0.12814
41092	P14079	Q96IY1	0.9337
41093	P14079	Q9Y285	1.3002
41094	P14079	Q7Z7F7	1.1265
41095	P14079	P13164	0.46117
41096	P14079	Q9NPI1	0.77888
41097	P14079	O95402	1.1194
41098	P14079	Q68DK7	1.5005
41099	P14079	O75223	0.57322
41100	P14079	Q3LI70	1.1715
41101	P14079	Q9BTW9	0.47394
41102	P14079	Q9Y5P2	0.51712
41103	P14079	O60260	0.29068
41104	P14079	Q8NEY3	1.1006
41105	P14079	Q9H857	0.92807
41106	P14079	Q8N9Q2	0.5594
41107	P14079	P17098	1.018
41108	P14079	Q15014	1.1185
41109	P14079	Q9H061	0.81101
41110	P14079	Q9UGV2	0.38162
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41112	P14079	Q9H7T9	1.1553
41113	P14079	Q01105	0.769
41114	P14079	Q8N159	0.55845
41115	P14079	P48643	0.17096
41116	P14079	Q8IX12	1.0226

41117	P14079	O43447	0.58067
41118	P14079	P08151	0.33613
41119	P14079	Q8IVE0	0.34895
41120	P14079	Q15293	0.47116
41121	P14079	Q6PIY5	0.22596
41122	P14079	Q8N8B7	0.11388
41123	P14079	Q14166	0.42822
41124	P14079	Q9Y5K8	0.32936
41125	P14079	P20042	0.61176
41126	P14079	O94830	0.041402
41127	P14079	P15036	0.8325
41128	P14079	Q03188	0.96724
41129	P14079	Q5JVS0	0.96656
41130	P14079	Q8TC94	0.89007
41131	P14079	O60397	0.78471
41132	P14079	P0CJ74	1.3031
41133	P14079	Q9GZM3	0.23838
41134	P14079	O95166	0.41166
41135	P14079	P59036	1.1715
41136	P14079	P30042	0.72377
41137	P14079	Q5SNV9	0.87733
41138	P14079	Q8N7U7	0.88134
41139	P14079	P0C7V0	1.1715
41140	P14079	P62333	0.42583
41141	P14079	P59052	1.1149
41142	P14079	Q8NA69	0.81719
41143	P14079	Q9BQ95	1.1691
41144	P14079	P13056	0.7453
41145	P14079	P53804	0.40464
41146	P14079	Q9NXE8	1.356
41147	P14079	O43677	1.0705
41148	P14079	A1E959	0.8216
41149	P14079	Q8TEA8	1.4439
41150	P14079	P0C6T2	1.0481
41151	P14079	Q96GG9	0.60775
41152	P14079	O76087	0.99818
41153	P14079	O15164	0.23504
41154	P14079	Q9BQN1	1.4166
41155	P14079	Q8NEM7	0.53886
41156	P14079	Q569G3	1.3222
41157	P14079	Q9Y2X0	0.63179
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41159	P14079	Q8IXQ6	0.81644
41160	P14079	Q7L804	0.72066
41161	P14079	Q9BW27	0.94376
41162	P14079	O43513	1.2063
41163	P14079	Q9C010	1.3204
41164	P14079	P13805	0.1876
41165	P14079	O95816	0.56144
41166	P14079	Q8WYK2	0.37431
41167	P14079	P07498	1.4033
41168	P14079	Q9BRX2	0.30835
41169	P14079	P35237	0.43296
41170	P14079	Q96HZ7	1.1715
41171	P14079	P48668	0.96294
41172	P14079	Q96JI7	1.2962
41173	P14079	Q8N4H5	1.0895
41174	P14079	Q9H374	0.73811
41175	P14079	Q6ZS52	1.1715
41176	P14079	P0C864	0.32955
41177	P14079	Q86Y56	0.080836
41178	P14079	P0CJ89	0.25626
41179	P14079	Q9UKT5	0.27782
41180	P14079	Q96M27	0.15484
41181	P14079	O75123	0.52714
41182	P14079	Q9NXP7	0.45857
41183	P14079	Q14004	0.34877
41184	P14079	O15315	0.1968
41185	P14079	Q14789	0.69539
41186	P14079	Q8IWL8	1.7013
41187	P14079	Q8N443	1.087
41188	P14079	Q8N3T6	0.97751
41189	P14079	O14746	1.0055
41190	P14079	Q13416	0.87997
41191	P14079	Q3MIW9	1.2698
41192	P14079	Q3SY00	1.3865

41193	P14079	O14773	0.042998
41194	P14079	Q5XKL5	0.27853
41195	P14079	Q14C87	1.3386
41196	P14079	P02042	0.65657
41197	P14079	Q9UGL9	1.1715
41198	P14079	Q92979	0.45711
41199	P14079	P0C7U1	0.12476
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41201	P14079	Q6P587	0.40659
41202	P14079	Q6ZVE7	0.95713
41203	P14079	Q9HAZ2	0.48833
41204	P14079	O14867	0.40037
41205	P14079	O95425	0.17769
41206	P14079	Q9H0P0	0.62321
41207	P14079	Q14746	0.63652
41208	P14079	P0CJ88	0.25626
41209	P14079	Q8N9K7	1.1715
41210	P14079	P0CL85	0.46781
41211	P14079	O75467	0.52324
41212	P14079	Q68DY9	0.63518
41213	P14079	Q9NWS1	1.0741
41214	P14079	B1ANH7	0.65518
41215	P14079	Q96NA2	1.6417
41216	P14079	Q9BWK5	1.566
41217	P14079	P25800	0.3426
41218	P14079	A8MZF0	1.3222
41219	P14079	Q8WTP9	1.7294
41220	P14079	Q9GZT9	0.24991
41221	P14079	Q5VU69	1.152
41222	P14079	Q5T2E6	1.3019
41223	P14079	Q15007	1.0081
41224	P14079	O00442	0.74447
41225	P14079	Q6PGP7	0.85169
41226	P14079	P23381	0.57992
41227	P14079	P20585	0.22468
41228	P14079	P55199	1.1282
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41230	P14079	Q5SVJ3	0.97165
41231	P14079	Q9BRT9	0.79212
41232	P14079	Q8NCY6	0.23265
41233	P14079	Q9NQ50	1.3792
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41235	P14079	O95628	0.32427
41236	P14079	P61581	1.7166
41237	P14079	Q9Y5U4	0.38197
41238	P14079	Q8NAJ2	0.36546
41239	P14079	Q86XD5	0.80645
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41241	P14079	P26639	0.84387
41242	P14079	Q8NEB7	0.9829
41243	P14079	Q658T7	0.3152
41244	P14079	P0C7M4	0.24936
41245	P14079	P10243	0.70969
41246	P14079	Q9H7R0	0.94651
41247	P14079	Q8WWX9	0.53016
41248	P14079	Q56A73	0.56501
41249	P14079	Q9H094	0.22747
41250	P14079	P09565	0.94741
41251	P14079	Q9UKV8	0.79383
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41253	P14079	Q53FE4	0.6778
41254	P14079	A0AUZ9	1.0404
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41256	P14079	P59282	0.77614
41257	P14079	Q96HA1	1.6792
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41259	P14079	Q96F85	0.0057309
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41261	P14079	Q9H295	0.49105
41262	P14079	Q9BQ15	1.2691
41263	P14079	Q9BZL1	0.7837
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41266	P14079	Q9NQG1	1.1823
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41268	P14079	Q53GI3	0.56951

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41271	P14079	P37802	0.48303
41272	P14079	P60002	1.5351
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41276	P14079	Q15513	1.1715
41277	P14079	Q6P3S1	0.12095
41278	P14079	Q9UNH7	0.3908
41279	P14079	B1AL88	1.2485
41280	P14079	P16383	1.6908
41281	P14079	P62508	0.58284
41282	P14079	Q6T4R5	0.78774
41283	P14079	A8MZA4	0.89121
41284	P14079	Q5TZA2	0.96552
41285	P14079	Q8WZ33	0.81071
41286	P14079	Q92562	0.44774
41287	P14079	Q9ULD9	1.781
41288	P14079	Q6NSI8	1.0503
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41290	P14079	Q3ZCQ2	1.1715
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41293	P14079	Q8IXS6	0.57042
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41296	P14079	P86479	1.1715
41297	P14079	O43156	1.2265
41298	P14079	Q9HBT7	0.68829
41299	P14079	Q8N4S0	1.3222
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41301	P14079	P49753	0.23623
41302	P14079	P05114	0.72086
41303	P14079	Q9UL33	0.74375
41304	P14079	P22531	1.1715
41305	P14079	Q8TAT5	0.61766
41306	P14079	Q96HA9	0.99552
41307	P14079	Q6IEE8	1.0684
41308	P14079	Q93083	0.77468
41309	P14079	P57076	0.85644
41310	P14079	A9UHW6	1.1067
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41312	P14079	P15502	0.84493
41313	P14079	Q4G112	0.28169
41314	P14079	B3EWF7	1.1715
41315	P14079	Q9Y3B8	0.48217
41316	P14079	Q6ZUJ4	1.2201
41317	P14079	Q99627	0.57354
41318	P14079	O43759	0.97807
41319	P14079	Q86UY5	0.59525
41320	P14079	Q96I25	0.21549
41321	P14079	P09874	0.64919
41322	P14079	Q96JB3	0.21516
41323	P14079	Q8N1B3	0.80199
41324	P14079	Q8WVV9	0.24192
41325	P14079	Q9HAT8	0.97187
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41327	P14079	P78543	0.82071
41328	P14079	Q7Z5L0	0.94645
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41331	P14079	C9JVV0	1.1715
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41333	P14079	Q5T7N2	0.46109
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41336	P14079	A4D161	0.65781
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41338	P14079	Q15287	0.8967
41339	P14079	Q9Y4A5	0.69381
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41343	P14079	Q9NPG2	0.48318
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41348	P14079	P35900	1.2514
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41350	P14079	P27216	0.65206
41351	P14079	Q5TIA1	0.36808
41352	P14079	Q4KMZ1	0.95475
41353	P14079	Q9H0S4	0.13736
41354	P14079	Q8N6Q3	0.79631
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41360	P14079	P52742	0.73618
41361	P14079	Q9NTX9	0.77499
41362	P14079	Q86XZ4	0.96374
41363	P14079	Q96QH2	0.35123
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41365	P14079	Q96T23	0.60807
41366	P14079	Q8TD23	1.2643
41367	P14079	Q6PGQ7	1.7845
41368	P14079	Q9P0P8	0.61851
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41373	P14079	Q6IQ49	0.58942
41374	P14079	Q8IXH6	1.2325
41375	P14079	Q5HYK9	0.74415
41376	P14079	Q9BVC5	1.1409
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41381	P14079	Q5T5N4	0.53769
41382	P14079	Q8IXS2	0.47209
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41384	P14079	P57088	0.92113
41385	P14079	Q9BQ90	1.1205
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41408	P14079	Q13442	1.0786
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41418	P14079	Q05BQ5	0.30577
41419	P14079	P57723	0.13109
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41423	P14079	Q9H8S9	0.62679
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41426	P14079	Q96HE9	0.50707
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41431	P14079	Q53H80	0.80325
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41442	P14079	Q9H8W4	0.37877
41443	P14079	Q86UY6	0.47127
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41447	P14079	Q9Y3B2	0.79466
41448	P14079	Q9UPP5	1.3341
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41450	P14079	Q8WXW3	1.2364
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41457	P14079	P0CG31	0.57343
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41461	P14079	Q15036	0.30662
41462	P14079	Q6UB98	0.42364
41463	P14079	Q9NR22	0.39456
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41465	P14079	P61966	0.49388
41466	P14079	P23396	0.97849
41467	P14079	Q86V97	0.36435
41468	P14079	Q5JUX0	0.46837
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41493	P14079	Q05084	0.29232
41494	P14079	P63261	0.99952
41495	P14079	Q15038	2.1029
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41613	P14079	Q9Y2G7	1.0764
41614	P14079	Q9Y3D7	0.46528
41615	P14079	Q9H7J1	0.95313
41616	P14079	Q5T124	0.37346
41617	P14079	O95125	0.53302
41618	P14079	P0C7P3	1.2416
41619	P14079	Q99814	0.30944
41620	P14079	P60413	1.3698
41621	P14079	Q8WU39	1.0429
41622	P14079	Q7Z340	0.55626
41623	P14079	A1A4T8	0.5247
41624	P14079	A6NL28	0.2068
41625	P14079	Q9UK13	0.98685
41626	P14079	Q9Y375	0.74179
41627	P14079	O75817	1.3924
41628	P14079	Q9Y4U1	0.92442
41629	P14079	Q9NYV6	0.6093
41630	P14079	Q9UIS9	0.35612
41631	P14079	Q8TBY8	0.96371
41632	P14079	A6NM66	0.86222
41633	P14079	O14828	1.0112
41634	P14079	Q14241	0.75851
41635	P14079	Q5VW32	0.31881
41636	P14079	Q9BXT5	1.1014
41637	P14079	Q8N5D0	0.68102
41638	P14079	Q96P71	0.5988
41639	P14079	Q8NDQ6	0.77193
41640	P14079	Q96LL4	1.3222
41641	P14079	Q96DY2	0.53316
41642	P14079	P86434	0.77823
41643	P14079	Q96B01	1.4144
41644	P14079	P0C5J1	0.30613
41645	P14079	Q3KP22	0.69231
41646	P14079	P0CG48	0.66704
41647	P14079	Q06413	0.30045
41648	P14079	Q1RN00	1.1715

41649	P14079	P19429	0.16965
41650	P14079	P40855	0.90544
41651	P14079	O95793	0.50535
41652	P14079	Q0VDE8	1.4165
41653	P14079	Q9BWX5	0.40622
41654	P14079	Q86WG3	0.41677
41655	P14079	Q9BRT2	0.46164
41656	P14079	Q9H799	1.2549
41657	P14079	Q13609	0.41572
41658	P14079	Q8NDP4	0.69818
41659	P14079	Q6STE5	0.66394
41660	P14079	P08779	1.1852
41661	P14079	Q9C073	1.5622
41662	P14079	Q9NSI6	0.66017
41663	P14079	Q9H3H3	0.75427
41664	P14079	Q9UNA4	0.49052
41665	P14079	Q8N196	0.51722
41666	P14079	P49069	0.63552
41667	P14079	Q6ZT83	0.71401
41668	P14079	Q8TBZ6	0.65786
41669	P14079	P02728	1.1715
41670	P14079	Q6PP77	1.4324
41671	P14079	Q9NXF7	0.71704
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41674	P14079	Q8NEG2	1.0466
41675	P14079	Q9C0D0	0.71812
41676	P14079	Q8NB91	0.73511
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41678	P14079	Q00610	0.88852
41679	P14079	Q8IZ21	0.6781
41680	P14079	Q5QGS0	0.43573
41681	P14079	Q6PH81	0.98617
41682	P14079	P63172	1.0265
41683	P14079	Q96N68	1.1715
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41685	P14079	P54257	0.07946
41686	P14079	Q9NPE3	1.1297
41687	P14079	O60811	0.0080986
41688	P14079	P13073	1.0584
41689	P14079	Q76L83	0.92146
41690	P14079	Q96KP4	0.73984
41691	P14079	Q9NYY8	0.60942
41692	P14079	Q53RY4	1.2485
41693	P14079	Q9NUQ7	0.55033
41694	P14079	Q8IUE1	0.28169
41695	P14079	O75419	1.171
41696	P14079	O15370	0.42902
41697	P14079	Q9UI43	1.305
41698	P14079	Q8N693	0.33196
41699	P14079	P40429	0.9726
41700	P14079	O43482	0.78379
41701	P14079	Q9BU23	1.2107
41702	P14079	Q8N8G2	1.0419
41703	P14079	Q9BYX4	0.41472
41704	P14079	O75400	0.93033
41705	P14079	Q9NWB7	0.96516
41706	P14079	Q14738	0.89663
41707	P14079	O95876	0.56473
41708	P14079	O75879	0.88097
41709	P14079	Q5T1J5	1.571
41710	P14079	Q5VT28	1.2112
41711	P14079	Q5EBM0	1.2111
41712	P14079	Q15596	0.77366
41713	P14079	Q96LJ8	1.245
41714	P14079	Q9BYR8	1.5617
41715	P14079	Q68DK2	1.0429
41716	P14079	Q6ICB0	1.5046
41717	P14079	Q9BTL4	1.243
41718	P14079	Q7L3T8	1.1106
41719	P14079	Q15047	0.38885
41720	P14079	Q8NEE0	1.1715
41721	P14079	P0C7V5	0.8885
41722	P14079	Q8N9R0	1.1715
41723	P14079	Q86V15	0.84563
41724	P14079	P10072	0.59229

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41726	P14079	A6NKL6	1.2485
41727	P14079	Q8N141	1.0323
41728	P14079	Q8TEL6	0.74472
41729	P14079	Q16222	0.1375
41730	P14079	Q8IZU1	1.0534
41731	P14079	O14609	1.5015
41732	P14079	P28715	0.31259
41733	P14079	O75363	0.92052
41734	P14079	Q9ULC4	0.40191
41735	P14079	Q05BU3	1.1715
41736	P14079	Q92600	1.3891
41737	P14079	P35908	0.88485
41738	P14079	P52630	0.7232
41739	P14079	P49593	0.26988
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41745	P14079	Q96MF7	0.53004
41746	P14079	O43505	1.0174
41747	P14079	Q8NHR7	0.4649
41748	P14079	O94906	0.28087
41749	P14079	Q96K62	0.57002
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41751	P14079	Q9UJW7	0.54706
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41759	P14079	Q8N4B4	0.37775
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41762	P14079	Q8N5I9	1.3222
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41766	P14079	O43745	0.90835
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41768	P14079	O94888	0.5471
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41782	P14079	Q9BW92	0.85063
41783	P14079	Q5K131	0.77137
41784	P14079	O43716	0.77503
41785	P14079	Q9BUH8	0.66771
41786	P14079	Q8N490	0.70533
41787	P14079	Q9UJY4	0.87676
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41789	P14079	Q96CB8	0.66734
41790	P14079	O14771	1.2088
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41792	P14079	Q9BYQ4	1.3698
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41795	P14079	O75072	0.49794
41796	P14079	Q14442	0.80231
41797	P14079	Q86VI1	0.48787
41798	P14079	P20962	1.1914
41799	P14079	Q9Y2X3	0.69706
41800	P14079	Q8IY31	0.87967

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41803	P14079	Q9H0R6	0.8855
41804	P14079	Q9UJC3	0.18135
41805	P14079	Q9NYV7	0.50252
41806	P14079	Q92681	0.83528
41807	P14079	Q9GZV5	1.0387
41808	P14079	Q9NWT8	0.91301
41809	P14079	Q9BQE4	1.1093
41810	P14079	Q9NUX5	0.19586
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41812	P14079	Q9BT81	0.32722
41813	P14079	Q96H20	0.89403
41814	P14079	Q06546	1.239
41815	P14079	Q9HC36	0.09247
41816	P14079	Q9H0P7	0.59843
41817	P14079	P14859	1.1592
41818	P14079	P83436	0.74896
41819	P14079	Q96SY0	0.28916
41820	P14079	C9JBD0	1.0571
41821	P14079	P04279	0.56503
41822	P14079	Q96FC7	0.19405
41823	P14079	Q15305	0.29029
41824	P14079	Q5VWQ0	1.9447
41825	P14079	P29728	0.341
41826	P14079	O75663	0.6545
41827	P14079	P53041	0.58079
41828	P14079	Q8WZ82	0.16561
41829	P14079	Q9H7C4	0.66835
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41832	P14079	Q49AG3	1.4353
41833	P14079	Q9UNK9	0.42612
41834	P14079	Q5T292	1.223
41835	P14079	Q9Y6J9	0.78137
41836	P14079	Q6IQ23	0.61352
41837	P14079	Q9NPA3	1.7237
41838	P14079	Q8TF50	0.47167
41839	P14079	Q8WV99	0.84628
41840	P14079	Q96MU6	0.55888
41841	P14079	Q9UKT4	1.1181
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41843	P14079	Q8N6N6	0.41835
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41847	P14079	Q16851	0.21408
41848	P14079	A6NJ64	0.86845
41849	P14079	Q9NRR3	0.72073
41850	P14079	Q9Y2W2	1.3966
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41852	P14079	Q6UXB0	0.82486
41853	P14079	Q9P2G4	1.3222
41854	P14079	Q96NL6	0.54529
41855	P14079	Q9BQ66	1.3698
41856	P14079	Q96AT1	1.3222
41857	P14079	Q8TEP8	1.2206
41858	P14079	A6PW82	1.236
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41860	P14079	P10073	0.87381
41861	P14079	Q86V42	1.1526
41862	P14079	Q96DX7	0.28018
41863	P14079	P31150	0.12563
41864	P14079	Q96E11	1.3811
41865	P14079	Q14236	0.83653
41866	P14079	Q7Z7L9	0.59666
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41868	P14079	Q9UHT9	1.1715
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41870	P14079	O43768	0.26752
41871	P14079	Q16526	0.37901
41872	P14079	Q8N163	0.7911
41873	P14079	P47224	0.94181
41874	P14079	P35637	0.51105
41875	P14079	Q96PT4	0.2245
41876	P14079	Q8IXY8	0.1778

41877	P14079	Q9UL42	1.0327
41878	P14079	Q5VZF2	0.24368
41879	P14079	A8K0S8	0.24936
41880	P14079	Q969J3	0.14536
41881	P14079	Q9HC44	2.2309
41882	P14079	B1AK76	1.3892
41883	P14079	Q6NT04	0.80396
41884	P14079	Q08752	0.47353
41885	P14079	Q8WXS3	1.9264
41886	P14079	Q9Y2Q5	0.50149
41887	P14079	Q969H0	0.69853
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41889	P14079	Q7L592	0.88813
41890	P14079	P11532	0.63173
41891	P14079	Q01518	0.38158
41892	P14079	P62324	0.73396
41893	P14079	Q8TC90	1.4784
41894	P14079	Q6P9B6	0.56221
41895	P14079	O14990	1.207
41896	P14079	Q8N535	1.1512
41897	P14079	P53779	0.26368
41898	P14079	Q14693	0.26309
41899	P14079	Q60828	0.741
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41902	P14079	Q9ULV3	0.5185
41903	P14079	P28749	1.4057
41904	P14079	Q9H4K7	1.0731
41905	P14079	Q86X59	0.23765
41906	P14079	Q86XA9	0.742
41907	P14079	Q9Y316	1.0269
41908	P14079	Q5T035	1.5169
41909	P14079	Q9NPI0	0.94686
41910	P14079	P50452	0.66779
41911	P14079	P61201	0.62622
41912	P14079	P78337	0.25261
41913	P14079	D6RGH6	1.1858
41914	P14079	Q6ZVD7	0.61606
41915	P14079	O43422	0.87128
41916	P14079	Q96LA8	0.69561
41917	P14079	P41219	0.88585
41918	P14079	Q5VSG8	0.96159
41919	P14079	Q4LDR2	1.1353
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41921	P14079	Q5TH74	1.2507
41922	P14079	P13349	0.30705
41923	P14079	Q01534	0.40864
41924	P14079	Q7Z460	0.55256
41925	P14079	Q9UNY5	0.93026
41926	P14079	Q16649	0.22274
41927	P14079	Q96BN6	0.95486
41928	P14079	Q14653	0.73832
41929	P14079	Q9NZM5	0.93273
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41931	P14079	A1L3X0	0.77014
41932	P14079	P61570	1.0384
41933	P14079	A8MS94	0.93955
41934	P14079	A2A368	0.22377
41935	P14079	Q99633	0.11627
41936	P14079	Q02383	0.96444
41937	P14079	A6NK53	0.6845
41938	P14079	Q9UL59	0.54351
41939	P14079	Q96NY9	0.99331
41940	P14079	Q8N587	0.92278
41941	P14079	P51808	0.37527
41942	P14079	Q9H321	1.445
41943	P14079	P06730	0.74779
41944	P14079	Q8WY36	0.38002
41945	P14079	Q8N1D5	0.84703
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41947	P14079	Q6PIJ6	1.5141
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41949	P14079	Q8IWT0	0.48847
41950	P14079	A8K554	0.37211
41951	P14079	Q6P1R3	0.90321
41952	P14079	Q6ZNA1	0.76643

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41955	P14079	Q96HB5	0.93563
41956	P14079	Q86WV5	0.89225
41957	P14079	Q96A33	0.67268
41958	P14079	Q8TAI1	1.2677
41959	P14079	Q96KW9	1.545
41960	P14079	Q7Z4H9	1.0038
41961	P14079	Q5VSY0	0.53731
41962	P14079	Q13765	1.3112
41963	P14079	Q96JN2	0.90922
41964	P14079	Q92917	0.77713
41965	P14079	Q9UHV2	2.2067
41966	P14079	Q9Y2D5	0.57695
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41968	P14079	P19387	0.7484
41969	P14079	O75691	0.93512
41970	P14079	Q5H9L4	0.48573
41971	P14079	Q9UGK8	0.74716
41972	P14079	Q6ZVN8	0.72783
41973	P14079	Q9Y3A2	0.91905
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41978	P14079	Q99704	0.30536
41979	P14079	O75437	0.96899
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41981	P14079	A8MQ03	1.0699
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42014	P14079	Q13118	0.4961
42015	P14079	A3QJZ6	0.097036
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42019	P14079	Q9H009	0.53185
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42045	P14079	Q3LI60	1.1715
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42047	P14079	Q9ULC6	1.4646
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42049	P14079	O15063	1.1789
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42051	P14079	Q30KR1	0.91101
42052	P14079	Q8IU53	1.3031
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42054	P14079	Q9UDY2	1.2932
42055	P14079	P08048	0.1949
42056	P14079	Q9H2U6	1.2197
42057	P14079	Q9NRG4	0.62518
42058	P14079	P17019	1.0245
42059	P14079	Q96MC2	0.60242
42060	P14079	E9PQR5	0.30744
42061	P14079	A6NL46	1.3045
42062	P14079	P11844	1.342
42063	P14079	Q9P0R6	0.65799
42064	P14079	A6NI79	1.5826
42065	P14079	O95999	0.3544
42066	P14079	Q9P055	1.0304
42067	P14079	Q9Y305	1.1225
42068	P14079	Q8I WV8	0.56167
42069	P14079	Q7L4P6	0.98184
42070	P14079	Q6ZMY9	0.99738
42071	P14079	Q9UKF7	0.24922
42072	P14079	Q8TDZ2	0.37623
42073	P14079	Q15853	0.52962
42074	P14079	Q2NL82	1.0476
42075	P14079	Q6ZN84	0.83414
42076	P14079	A3KN83	1.4154
42077	P14079	P14621	0.59147
42078	P14079	O00321	1.0851
42079	P14079	Q5JVX7	1.3448
42080	P14079	A8MXU0	0.79509
42081	P14079	Q96P70	1.1722
42082	P14079	Q8NFM7	0.94035
42083	P14079	Q9Y3A4	0.83861
42084	P14079	Q8NBR6	2.2522
42085	P14079	P0C221	0.18221
42086	P14079	Q14532	0.70212
42087	P14079	O15297	0.60224
42088	P14079	Q8NEQ6	0.71391
42089	P14079	Q9H2K0	0.87449
42090	P14079	P18621	0.8975
42091	P14079	Q8NDY3	0.55665
42092	P14079	Q96ER9	0.67368
42093	P14079	Q9NVU7	1.0675
42094	P14079	Q9BVN2	0.76693
42095	P14079	Q86WI0	1.089
42096	P14079	O60481	0.40625
42097	P14079	A8MTB1	1.1715
42098	P14079	P12074	0.93065
42099	P14079	Q9H5V9	1.1738
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42102	P14079	Q7Z2W4	0.60073
42103	P14079	Q9HBM1	0.8164
42104	P14079	Q9UHL3	0.78875

42105	P14079	O95487	0.98564
42106	P14079	Q9UM82	1.6847
42107	P14079	Q9Y3X0	1.1621
42108	P14079	Q6ZTR7	0.30187
42109	P14079	Q07866	0.92144
42110	P14079	Q3ZCX4	0.66611
42111	P14079	P68036	0.4218
42112	P14079	Q6ZVK1	1.2485
42113	P14079	Q9BVM2	0.84298
42114	P14079	A8MTZ7	0.66624
42115	P14079	O95684	1.0837
42116	P14079	Q7L2J0	0.27713
42117	P14079	Q7L0X2	1.0551
42118	P14079	Q9P209	1.2138
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42120	P14079	Q6ZT77	0.64204
42121	P14079	Q8NBQ7	0.56109
42122	P14079	O15535	0.43752
42123	P14079	O95359	0.43228
42124	P14079	Q6NVV3	1.288
42125	P14079	Q8N8P6	1.0612
42126	P14079	Q8IXJ9	0.73836
42127	P14079	P04066	0.66068
42128	P14079	C9J069	0.41561
42129	P14079	Q5T5W8	1.2159
42130	P14079	P00338	0.60641
42131	P14079	Q16594	0.6586
42132	P14079	Q49AJ0	0.62528
42133	P14079	P22735	0.14639
42134	P14079	Q9UPR6	0.66974
42135	P14079	Q9C0B1	0.50743
42136	P14079	Q96S52	0.69967
42137	P14079	P61576	0.722
42138	P14079	Q9BYR2	1.3698
42139	P14079	Q9GZU2	0.67038
42140	P14079	Q13309	0.67451
42141	P14079	Q6ZS72	0.94472
42142	P14079	Q658K8	1.0629
42143	P14079	A6NIJ5	0.13295
42144	P14079	Q16517	0.96502
42145	P14079	Q6ZW54	1.7187
42146	P14079	Q8IZA3	0.67228
42147	P14079	Q9H4H8	0.64779
42148	P14079	Q2VYF4	0.85052
42149	P14079	O14893	0.68092
42150	P14079	Q9Y6X2	0.64352
42151	P14079	Q9H0A0	0.94511
42152	P14079	P47813	1.5452
42153	P14079	Q92734	0.36397
42154	P14079	Q8N339	0.22441
42155	P14079	Q3MIV0	1.1715
42156	P14079	Q96IV0	0.58554
42157	P14079	P56589	0.33421
42158	P14079	Q9HCG1	0.80718
42159	P14079	Q96A22	1.1507
42160	P14079	P17035	0.52589
42161	P14079	Q8WWL2	0.3662
42162	P14079	P23409	0.081192
42163	P14079	Q14192	0.63959
42164	P14079	Q9Y5N5	0.47676
42165	P14079	Q9UHF0	1.1527
42166	P14079	A6NCL1	0.35299
42167	P14079	Q9BQI9	1.5012
42168	P14079	Q99581	0.68313
42169	P14079	Q92830	0.8197
42170	P14079	Q6NT46	0.99818
42171	P14079	Q9Y2P0	0.59897
42172	P14079	Q9H3M9	0.71083
42173	P14079	P07951	0.04123
42174	P14079	O43736	0.77936
42175	P14079	Q9H0U6	0.91496
42176	P14079	Q8IYK2	1.3214
42177	P14079	Q8N660	1.9823
42178	P14079	Q15173	0.5288
42179	P14079	O75312	0.92205
42180	P14079	Q5TFG8	1.0613



42181	P14079	Q9BT09	0.5292
42182	P14079	A6NCI8	1.3951
42183	P14079	A6ZKI3	1.3539
42184	P14079	Q6ZSN7	0.96683
42185	P14079	Q9H7Y0	0.94831
42186	P14079	Q9H5J8	1.6642
42187	P14079	Q1HG43	1.3179
42188	P14079	Q96DZ9	1.0706
42189	P14079	Q8N0S6	0.86275
42190	P14079	Q7Z4Q2	1.4682
42191	P14079	Q8N865	0.73181
42192	P14079	P83881	0.98326
42193	P14079	A6NKX1	1.1715
42194	P14079	Q96SZ5	0.51989
42195	P14079	Q9BWH6	1.3299
42196	P14079	Q9NVR2	1.3668
42197	P14079	Q6UXV3	1.1715
42198	P14079	P22234	0.76842
42199	P14079	Q9Y2G0	0.95185
42200	P14079	Q9P266	1.1634
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42202	P14079	O75368	0.8004
42203	P14079	Q8IVF1	1.6599
42204	P14079	O60664	0.86191
42205	P14079	Q96PV6	1.0191
42206	P14079	Q969E4	0.73922
42207	P14079	P62072	0.52408
42208	P14079	Q9C0B9	0.18006
42209	P14079	A6NP81	0.28495
42210	P14079	Q9NSI2	1.3222
42211	P14079	P52564	0.24996
42212	P14079	A4UGR9	0.48781
42213	P14079	Q6MZQ0	0.86038
42214	P14079	O15519	0.5452
42215	P14079	P20132	0.041198
42216	P14079	Q5VXH5	0.23582
42217	P14079	Q96P26	0.70913
42218	P14079	Q6P161	0.376
42219	P14079	F7VJQ1	1.1715
42220	P14079	Q711Q0	1.1715
42221	P14079	Q6IPR3	0.80916
42222	P14079	Q8IXH7	1.3135
42223	P14079	Q9Y2Y9	0.92235
42224	P14079	Q96R06	1.0472
42225	P14079	Q8N6L1	1.0688
42226	P14079	Q6P9G9	0.48299
42227	P14079	Q8N7P7	0.46867
42228	P14079	O43597	0.15013
42229	P14079	Q8TA94	1.0284
42230	P14079	Q15700	0.29077
42231	P14079	O43309	0.60694
42232	P14079	Q52MB2	1.4444
42233	P14079	Q99456	0.99997
42234	P14079	Q14938	0.29792
42235	P14079	Q86TN4	0.67801
42236	P14079	Q8ND56	1.2179
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42238	P14079	Q3MIT2	0.44242
42239	P14079	Q96N06	1.084
42240	P14079	Q92614	0.26709
42241	P14079	Q330K2	0.86555
42242	P14079	Q9H4D5	0.98562
42243	P14079	Q15911	0.22908
42244	P14079	Q96QR8	0.73843
42245	P14079	Q8NDC0	1.3459
42246	P14079	Q9BYR9	0.94393
42247	P14079	O75362	0.91716
42248	P14079	Q96M43	0.82478
42249	P14079	Q9NTK1	1.6309
42250	P14079	Q5JXB2	0.44562
42251	P14079	Q96HI0	0.40396
42252	P14079	Q9UF83	0.83787
42253	P14079	Q8TCD5	0.50544
42254	P14079	P17010	0.43648
42255	P14079	Q68CJ9	0.58529
42256	P14079	Q15723	1.0851

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42258	P14079	Q9HCI6	0.93349
42259	P14079	P20292	0.39129
42260	P14079	Q9Y2N7	0.54053
42261	P14079	B2RD01	0.38266
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42263	P14079	Q9Y2Q1	1.0266
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42265	P14079	Q5T6L9	1.0613
42266	P14079	P17812	0.80501
42267	P14079	Q9UKF6	0.80097
42268	P14079	Q6UWF5	1.1715
42269	P14079	Q96GQ5	0.79956
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42271	P14079	Q6UX68	1.3388
42272	P14079	Q9BV87	0.84473
42273	P14079	Q9BRL7	0.97088
42274	P14079	Q9NXE4	0.77887
42275	P14079	Q9H0W8	1.4129
42276	P14079	Q8NA34	0.13538
42277	P14079	Q9UKN8	0.86685
42278	P14079	Q8NHU2	0.48655
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42281	P14079	Q9UBW8	0.42871
42282	P14079	Q5TAG4	0.88477
42283	P14079	Q01082	0.61605
42284	P14079	Q5T3J3	1.0064
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42290	P14079	A1A519	1.7332
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42293	P14079	Q5VX52	0.34135
42294	P14079	Q8N3Z3	0.94396
42295	P14079	Q96CD0	1.1399
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42299	P14079	O14896	0.34791
42300	P14079	Q8NFW8	0.65981
42301	P14079	P53567	0.49685
42302	P14079	Q16537	0.58533
42303	P14079	Q86VI4	0.76981
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42306	P14079	Q9UKD1	0.69547
42307	P14079	Q9NX95	0.90674
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42315	P14079	Q9BR84	1.07
42316	P14079	Q15031	0.97261
42317	P14079	Q14103	0.66896
42318	P14079	P23434	0.51168
42319	P14079	Q9UFG5	0.7692
42320	P14079	P67809	0.56575
42321	P14079	Q13505	1.5024
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42327	P14079	Q9UGN5	0.2987
42328	P14079	P0C7H8	0.94393
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42341	P14079	Q5VTT2	0.94348
42342	P14079	Q96RQ1	0.29997
42343	P14079	P68104	0.64261
42344	P14079	Q5SW24	0.47276
42345	P14079	P53999	1.1513
42346	P14079	Q9UPN7	1.0595
42347	P14079	Q96FJ2	0.89172
42348	P14079	P50995	1.038
42349	P14079	Q15714	0.82485
42350	P14079	Q6RVD6	1.1715
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42352	P14079	Q502W6	0.54949
42353	P14079	Q9UKJ5	0.62929
42354	P14079	Q9NWF4	1.2062
42355	P14079	Q8NDN9	0.49523
42356	P14079	Q6GV28	1.1349
42357	P14079	Q9H1L0	1.3598
42358	P14079	Q8TCC3	0.57577
42359	P14079	Q96LI6	0.39223
42360	P14079	A6NDV4	0.14017
42361	P14079	Q96DS6	1.2485
42362	P14079	Q8WWF3	1.3357
42363	P14079	P24864	0.78621
42364	P14079	Q86YH6	0.2216
42365	P14079	Q8IU60	0.86612
42366	P14079	Q5T160	1.1272
42367	P14079	Q2VPB7	0.87242
42368	P14079	P41567	1.3714
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42370	P14079	Q96KT6	1.1715
42371	P14079	P62487	0.60253
42372	P14079	Q9NUJ7	0.5661
42373	P14079	Q8IZW8	0.85412
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42375	P14079	Q86VS8	0.63276
42376	P14079	Q9HB07	0.72844
42377	P14079	Q9Y237	0.33327
42378	P14079	Q9BVC6	1.4292
42379	P14079	Q8N782	0.97319
42380	P14079	Q9BY44	0.52452
42381	P14079	Q86VY9	1.0007
42382	P14079	Q99700	0.87687
42383	P14079	O95503	0.95514
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42386	P14079	O15258	0.76541
42387	P14079	Q15155	0.97149
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42389	P14079	Q14146	1.1715
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42391	P14079	Q96CP7	1.2485
42392	P14079	Q96KH6	1.2843
42393	P14079	Q8N9E0	1.3222
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42397	P14079	Q7Z6K1	1.182
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42403	P14079	O95789	1.2437
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42412	P14079	Q9NSK7	1.4847
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42415	P14079	P86790	0.80083
42416	P14079	Q96CJ1	1.3323
42417	P14079	P46781	1.2432
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42419	P14079	P36873	0.69438
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42421	P14079	Q0VFX4	1.0286
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42423	P14079	Q5T4T1	1.025
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42430	P14079	P26998	1.2574
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42444	P14079	Q3KP31	0.95434
42445	P14079	Q8N9B5	1.0575
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42450	P14079	Q9UBL3	0.25994
42451	P14079	Q96BN8	0.71631
42452	P14079	Q96CM3	0.81637
42453	P14079	Q13021	0.54171
42454	P14079	Q8IVL6	0.65898
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42457	P14079	O15453	1.1598
42458	P14079	Q9XRX5	0.79394
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42461	P14079	C9JE40	1.0499
42462	P14079	P43357	0.56221
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42474	P14079	P41223	0.31565
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42476	P14079	P61513	0.83081
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42490	P14079	P0C838	1.0064
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42492	P14079	Q5TEC3	0.5681
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42495	P14079	Q9Y617	0.7317
42496	P14079	Q9NY61	0.98029
42497	P14079	Q6UWS5	0.86323
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42502	P14079	P13010	0.30948
42503	P14079	Q96ST3	0.67754
42504	P14079	Q8N7N1	0.050966
42505	P14079	Q8WUF5	0.81309
42506	P14079	Q13023	0.77871
42507	P14079	Q6ZQP7	1.1715
42508	P14079	O00193	1.6655
42509	P14079	P56378	1.1272
42510	P14079	Q9NXW9	0.83947
42511	P14079	Q15819	0.53821
42512	P14079	O60543	0.58255
42513	P14079	P15515	0.88262
42514	P14079	Q6IS14	0.39345
42515	P14079	Q86W33	1.1823
42516	P14079	P41091	0.31388
42517	P14079	Q15024	0.52739
42518	P14079	Q99676	0.75812
42519	P14079	Q5T7W7	1.3222
42520	P14079	Q701N2	1.1715
42521	P14079	Q9NRG0	0.44007
42522	P14079	P40306	0.88237
42523	P14079	Q92782	0.61704
42524	P14079	Q6P087	0.39241
42525	P14079	Q96FF7	1.1715
42526	P14079	O76011	0.99997
42527	P14079	Q92558	0.71767
42528	P14079	P55347	0.37147
42529	P14079	Q6W349	1.3323
42530	P14079	Q9UKS6	0.3323
42531	P14079	Q5T742	1.1715
42532	P14079	P09086	0.26326
42533	P14079	P31941	0.30542
42534	P14079	Q8N8W4	0.45174
42535	P14079	Q9BTD1	0.77186
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42537	P14079	P13498	0.31245
42538	P14079	A6NKN8	1.5961
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42540	P14079	Q75VX8	1.5373
42541	P14079	Q9NP84	0.95443
42542	P14079	Q9NR12	0.16103
42543	P14079	Q96RK0	0.98143
42544	P14079	Q96CS3	0.69587
42545	P14079	A6NER3	0.33792
42546	P14079	P39656	0.79564
42547	P14079	Q9NZ32	0.92536
42548	P14079	A8MT65	0.96521
42549	P14079	O75582	0.3381
42550	P14079	Q96JK9	1.0237
42551	P14079	Q8NCP5	0.1949
42552	P14079	Q16254	0.91448
42553	P14079	Q71F78	1.0181
42554	P14079	Q9UK45	0.75543
42555	P14079	Q96L14	0.84394
42556	P14079	O95229	0.88917
42557	P14079	Q08AN1	0.77845
42558	P14079	A6NJG6	0.28169
42559	P14079	O14641	0.52079
42560	P14079	P07476	1.2019

42561	P14079	Q6XD76	0.2791
42562	P14079	Q86VX9	1.5384
42563	P14079	Q8NB42	1.0252
42564	P14079	P10828	0.58522
42565	P14079	Q92541	0.99479
42566	P14079	Q16829	0.52653
42567	P14079	Q49AM1	0.70694
42568	P14079	P0CW27	0.75981
42569	P14079	Q9BSU1	1.2168
42570	P14079	Q9BY42	1.2722
42571	P14079	Q9BXU0	0.69749
42572	P14079	Q15053	0.79083
42573	P14079	Q14151	0.6755
42574	P14079	A6NDU8	1.1192
42575	P14079	P62753	1.1043
42576	P14079	Q9BVL4	1.8084
42577	P14079	O43679	0.39526
42578	P14079	Q86Y79	1.1862
42579	P14079	Q6WQI6	0.66064
42580	P14079	Q5VVH5	0.80142
42581	P14079	Q8TE85	0.26702
42582	P14079	Q96JC9	0.9657
42583	P14079	Q9Y5Z4	0.19405
42584	P14079	Q9NPJ8	0.7173
42585	P14079	Q58F21	0.44466
42586	P14079	Q8IVM7	1.1715
42587	P14079	Q9BYH8	0.40073
42588	P14079	Q9UBF6	0.65728
42589	P14079	Q8WVX3	1.2485
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42591	P14079	Q96NU7	0.75964
42592	P14079	Q8NBT2	0.83496
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42594	P14079	Q02083	0.66334
42595	P14079	Q9NVM4	0.16757
42596	P14079	Q13907	0.48508
42597	P14079	A8MXV4	1.2061
42598	P14079	P16083	0.40879
42599	P14079	Q5W0V3	1.5066
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42602	P14079	Q92542	0.6773
42603	P14079	I3L0S3	1.1511
42604	P14079	Q9H4G8	0.83309
42605	P14079	Q6BDI9	1.029
42606	P14079	Q969T7	0.39521
42607	P14079	A6NK89	1.2971
42608	P14079	Q12840	0.42294
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42612	P14079	Q9BRU9	0.83891
42613	P14079	Q14410	0.88589
42614	P14079	Q08722	0.64962
42615	P14079	Q14157	1.2871
42616	P14079	Q13323	0.72882
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42619	P14079	Q9BSI4	1.3216
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42621	P14079	Q3B7S5	1.1715
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42623	P14079	Q6YFQ2	0.037428
42624	P14079	Q9BYQ9	1.3698
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42626	P14079	P98171	0.30249
42627	P14079	Q8IV33	1.0467
42628	P14079	A6NC78	0.5943
42629	P14079	P52434	0.57715
42630	P14079	P02511	0.32211
42631	P14079	Q9UI47	0.56042
42632	P14079	A8MU93	1.3222
42633	P14079	Q8IVG5	0.31741
42634	P14079	Q9NZ42	0.85424
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42636	P14079	Q8IUC6	0.52952

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42639	P14079	A6NFK2	0.62696
42640	P14079	Q32M78	0.93128
42641	P14079	Q6PDB4	1.0584
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42643	P14079	Q9UNY4	0.3458
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42645	P14079	P15924	0.55556
42646	P14079	Q96KN4	0.38904
42647	P14079	P17039	0.51784
42648	P14079	Q13404	1.2576
42649	P14079	Q9NRR8	1.2613
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42653	P14079	Q9HBM0	1.2946
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42656	P14079	P04156	0.77254
42657	P14079	Q9UMX0	0.98861
42658	P14079	Q8N0X2	0.34708
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42660	P14079	Q6V702	0.58571
42661	P14079	Q6ZQX7	0.27848
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42663	P14079	Q9H1K0	0.12567
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42666	P14079	Q9BPY3	0.89702
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42670	P14079	P35606	0.61982
42671	P14079	Q92564	0.31874
42672	P14079	O15231	0.21523
42673	P14079	Q5EBM4	0.27146
42674	P14079	Q86UT5	0.24885
42675	P14079	F5H4B4	1.5912
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42678	P14079	Q32MH5	1.1967
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42680	P14079	A6NM45	0.63456
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42682	P14079	P84157	1.2485
42683	P14079	Q9HCK1	0.96374
42684	P14079	Q9NPI6	0.94005
42685	P14079	Q5JQF7	1.1715
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42687	P14079	P47756	0.27258
42688	P14079	Q92804	0.35586
42689	P14079	Q14207	0.83595
42690	P14079	Q9Y314	1.0221
42691	P14079	Q9UBZ4	0.061983
42692	P14079	P43359	1.4995
42693	P14079	Q9UQF2	0.52746
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42695	P14079	Q3MIR4	0.18288
42696	P14079	A6NEM1	1.3415
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42698	P14079	P52209	0.55917
42699	P14079	Q8N2C7	1.5254
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42710	P14079	O00170	0.61744
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42712	P14079	Q5JTZ5	0.57367

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42715	P14079	Q6NUN9	0.84305
42716	P14079	Q9HAY2	0.30704
42717	P14079	Q13033	0.92252
42718	P14079	Q9HCE1	0.60781
42719	P14079	P51522	0.58766
42720	P14079	Q496A3	0.83405
42721	P14079	Q8N5T8	1.2255
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42726	P14079	Q92545	1.2485
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42728	P14079	Q5BN46	0.88669
42729	P14079	Q96ED9	0.7747
42730	P14079	Q7Z388	1.1385
42731	P14079	Q8N9H9	1.1715
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42734	P14079	Q9NRL2	0.97252
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42737	P14079	Q15172	0.38732
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42739	P14079	Q9UPM8	0.56649
42740	P14079	Q8WVT3	0.18584
42741	P14079	Q6PK04	1.4147
42742	P14079	Q0VG73	1.1715
42743	P14079	Q8NFR7	1.2417
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42745	P14079	Q9Y675	1.4627
42746	P14079	Q96I76	0.27735
42747	P14079	Q96LB4	0.43194
42748	P14079	Q5JXM2	1.0967
42749	P14079	Q9UBB5	1.3761
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42751	P14079	Q9H171	0.49486
42752	P14079	Q9BZK3	0.67171
42753	P14079	Q70IA6	0.40175
42754	P14079	Q6GMV2	0.74886
42755	P14079	Q13618	0.35148
42756	P14079	Q9BT56	1.1875
42757	P14079	Q5GH72	1.3596
42758	P14079	P57772	1.1669
42759	P14079	A6NHJ4	1.07
42760	P14079	Q8NDZ2	0.96935
42761	P14079	Q9BPX7	1.063
42762	P14079	Q9BWC9	1.5875
42763	P14079	Q9BYQ3	1.3698
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42765	P14079	Q9NZ45	0.78861
42766	P14079	Q15013	1.0954
42767	P14079	P26641	0.68239
42768	P14079	Q8N4H0	0.59278
42769	P14079	Q95948	0.30148
42770	P14079	Q5SQH8	0.51999
42771	P14079	P21399	0.42352
42772	P14079	Q99549	0.48218
42773	P14079	P61582	1.7865
42774	P14079	Q9NSB4	0.85949
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42777	P14079	Q16633	0.64909
42778	P14079	Q9UNS2	0.81255
42779	P14079	Q9Y5R5	0.19688
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42781	P14079	P39023	1.1266
42782	P14079	A6NLE4	1.2485
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42787	P14079	C9J3I9	1.0315
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42791	P14079	Q15528	1.1926
42792	P14079	P48728	0.53448
42793	P14079	O00232	0.72906
42794	P14079	Q99622	0.54599
42795	P14079	P49006	1.4773
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42797	P14079	Q9BWF2	0.37163
42798	P14079	Q9NX08	0.56221
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42803	P14079	P28370	0.43832
42804	P14079	P62273	1.4589
42805	P14079	Q9NTW7	0.95408
42806	P14079	P61457	0.87863
42807	P14079	Q49AN0	0.12712
42808	P14079	O14604	1.2142
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42813	P14079	Q99607	1.0899
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42815	P14079	P07311	1.298
42816	P14079	Q96FF9	1.3051
42817	P14079	Q9UI56	1.1715
42818	P14079	Q6P9F0	0.67688
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42820	P14079	Q9Y586	0.59822
42821	P14079	A6NI86	1.2306
42822	P14079	Q9P2Y4	0.24294
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42825	P14079	Q7L2E3	0.33056
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42830	P14079	Q9BTA9	0.95712
42831	P14079	Q96DT0	0.20961
42832	P14079	Q86VG3	1.2723
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42841	P14079	P20933	0.66957
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42848	P14079	Q13094	0.70726
42849	P14079	Q9Y2R9	1.5019
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42851	P14079	Q8N3R3	0.63877
42852	P14079	O75564	0.76486
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42866	P14079	Q9NYZ3	1.4915
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42905	P14079	Q9H8E8	0.80361
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42915	P14079	A8MZ25	0.17307
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42919	P14079	Q9H040	0.60908
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42922	P14079	Q13522	0.30425
42923	P14079	P24588	0.25947
42924	P14079	Q7Z3K3	0.58103
42925	P14079	Q96DU7	0.70156
42926	P14079	P13807	0.27639
42927	P14079	O43592	0.50074
42928	P14079	P55771	0.76605
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42931	P14079	Q8WUI4	0.43655
42932	P14079	P12036	0.68291
42933	P14079	Q6ZR52	0.78684
42934	P14079	Q13901	0.97749
42935	P14079	Q7Z6G3	0.62006
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42938	P14079	O14639	0.974
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42946	P14079	O75475	1.5027
42947	P14079	A6NCJ1	0.96733
42948	P14079	P50991	0.35526
42949	P14079	Q8N910	0.31556
42950	P14079	Q2T9K0	0.95549
42951	P14079	Q16531	0.76901
42952	P14079	Q9NXH3	1.0405
42953	P14079	Q9UKH3	1.0034
42954	P14079	P0C867	1.07
42955	P14079	Q66K80	1.1715
42956	P14079	Q8NG50	0.39061
42957	P14079	Q2M329	1.1403
42958	P14079	Q9BZE9	1.1965
42959	P14079	Q902F9	0.80727
42960	P14079	Q9ULG3	1.1715
42961	P14079	Q8N336	0.81684
42962	P14079	Q9Y6D5	0.30397
42963	P14079	P49005	0.6571
42964	P14079	Q6PJT7	1.0148
42965	P14079	O95167	0.87638
42966	P14079	Q9NP79	0.50253
42967	P14079	Q96GX8	1.3222
42968	P14079	P13489	0.64259
42969	P14079	Q8WV74	0.13921
42970	P14079	Q8NDH3	0.79089
42971	P14079	Q2TAZ0	0.56221
42972	P14079	A6NNH2	0.4243
42973	P14079	Q9UBS4	0.54784
42974	P14079	Q05DH4	1.6004
42975	P14079	Q9ULU8	0.26624
42976	P14079	Q6P6C2	0.8109
42977	P14079	Q86U70	0.45678
42978	P14079	O15198	1.0002
42979	P14079	Q9UKZ1	1.3714
42980	P14079	Q9BUJ2	1.1339
42981	P14079	Q9UL41	1.1987
42982	P14079	P16298	0.14687
42983	P14079	Q9BSW2	0.86098
42984	P14079	O14974	0.55966
42985	P14079	Q9BUT9	1.8779
42986	P14079	P0CJ75	1.3031
42987	P14079	Q7Z422	0.53146
42988	P14079	Q6RW13	1.4172
42989	P14079	A8MXT2	0.24809
42990	P14079	Q8NA47	1.3222
42991	P14079	Q9BYR3	1.3698
42992	P14079	Q6NZY4	0.49573
42993	P14079	Q9BXL8	0.81186
42994	P14079	Q8NEK5	0.59459
42995	P14079	Q6P444	1.1992
42996	P14079	Q63HM1	0.83146
42997	P14079	Q9UII2	0.85704
42998	P14079	Q8NET4	1.2144
42999	P14079	Q9UPU9	0.75918
43000	P14079	Q9NVX0	1.1964
43001	P14079	Q8TBN0	0.53748
43002	P14079	Q8N5A5	0.76853
43003	P14079	Q96Q45	0.88585
43004	P14079	Q7Z3K6	0.71985
43005	P14079	O94901	0.30168
43006	P14079	Q14204	0.57736
43007	P14079	Q9UQR0	0.22401
43008	P14079	Q5SWH9	1.2485
43009	P14079	P48147	0.81974
43010	P14079	Q96HR3	0.88621
43011	P14079	P04080	0.066209
43012	P14079	Q7Z6I5	1.4881
43013	P14079	Q12906	1.1561
43014	P14079	Q2VWA4	0.1063
43015	P14079	Q8IYB9	0.8029
43016	P14079	Q9H707	0.64158

43017	P14079	Q9NUB4	1.1715
43018	P14079	Q495Z4	1.0931
43019	P14079	Q96SR6	0.58948
43020	P14079	Q6ZTN6	1.1646
43021	P14079	Q96PM9	0.43669
43022	P14079	Q15048	0.055376
43023	P14079	Q9BW04	0.95175
43024	P14079	O15514	0.3771
43025	P14079	P62495	0.69372
43026	P14079	Q9C000	0.36747
43027	P14079	Q9BRJ2	0.67129
43028	P14079	Q9NXG0	0.35976
43029	P14079	Q8NHU6	0.27285
43030	P14079	Q96D15	0.44757
43031	P14079	Q6ZS49	1.1715
43032	P14079	Q9H910	1.6397
43033	P14079	Q15329	1.1949
43034	P14079	Q9NP81	0.83172
43035	P14079	Q9NQ29	1.0637
43036	P14079	Q8WVI7	0.36001
43037	P14079	Q16656	1.0213
43038	P14079	P33240	0.56345
43039	P14079	Q96BW9	1.0735
43040	P14079	Q15276	0.83777
43041	P14079	Q6L8H2	1.1715
43042	P14079	Q99576	0.46533
43043	P14079	P31949	0.45643
43044	P14079	Q9BSV6	0.61691
43045	P14079	P54802	0.84279
43046	P14079	Q6ZT21	0.79459
43047	P14079	Q6P1L5	2.0085
43048	P14079	Q9GZL7	0.86736
43049	P14079	P26038	0.3053
43050	P14079	Q99594	1.1158
43051	P14079	Q5JST6	0.97105
43052	P14079	Q9H8X3	0.16445
43053	P14079	Q5JTW2	0.73566
43054	P14079	Q9NX46	0.75116
43055	P14079	Q8N987	0.29425
43056	P14079	Q9H7P6	1.674
43057	P14079	P52737	0.77875
43058	P14079	Q8N5J2	1.8829
43059	P14079	O43913	0.4804
43060	P14079	Q92834	0.63009
43061	P14079	P35789	0.94578
43062	P14079	Q68D20	0.37324
43063	P14079	Q9H1K1	0.94316
43064	P14079	Q8TB33	0.83592
43065	P14079	Q6P3W6	1.236
43066	P14079	Q9NWX4	1.2343
43067	P14079	A0MZ66	1.1072
43068	P14079	Q4G0N4	0.75561
43069	P14079	Q7RTS7	0.97433
43070	P14079	P60604	0.61533
43071	P14079	A6NEL3	0.35845
43072	P14079	Q6ZUU3	1.1715
43073	P14079	P0CJ86	0.25626
43074	P14079	P51815	0.54104
43075	P14079	Q6IBW4	0.73692
43076	P14079	Q9H3J6	1.4447
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43078	P14079	P54252	0.41508
43079	P14079	Q13330	0.53548
43080	P14079	A6NLJ0	1.6012
43081	P14079	P57054	0.94337
43082	P14079	Q8NEP4	1.3222
43083	P14079	Q99932	1.1715
43084	P14079	Q9Y315	1.1491
43085	P14079	Q24JQ0	0.78375
43086	P14079	Q6ZRM9	1.2464
43087	P14079	Q86VZ6	0.25394
43088	P14079	Q9Y6H5	0.82135
43089	P14079	O94874	0.82023
43090	P14079	Q1T7F1	0.78783
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43092	P14079	Q5JUR7	0.21199

43093	P14079	Q6ZNB5	0.53147
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43096	P14079	P28347	0.98943
43097	P14079	Q86TB9	1.0695
43098	P14079	Q8NEK8	1.5082
43099	P14079	Q8TAG6	1.1924
43100	P14079	Q9UKY0	0.34626
43101	P14079	Q8N0U7	1.012
43102	P14079	Q3LI63	1.1715
43103	P14079	P17096	0.98345
43104	P14079	O14715	0.13526
43105	P14079	P42566	0.30899
43106	P14079	Q8N9L7	0.70752
43107	P14079	P47897	0.779
43108	P14079	P30876	0.61683
43109	P14079	P0CG42	1.1715
43110	P14079	Q9BUK6	0.3151
43111	P14079	Q14691	0.72478
43112	P14079	Q8IY22	0.1864
43113	P14079	A8MYR8	0.16234
43114	P14079	Q14591	0.45328
43115	P14079	Q96LI5	0.49925
43116	P14079	Q5SWW7	1.1715
43117	P14079	Q15018	0.64332
43118	P14079	P00395	0.34144
43119	P14079	B2CW77	1.1715
43120	P14079	Q03060	0.95697
43121	P14079	Q96GL9	1.1789
43122	P14079	Q9BZD3	0.94785
43123	P14079	P56377	0.57164
43124	P14079	Q8N9S7	0.84839
43125	P14079	Q9BYS1	1.1219
43126	P14079	P11474	0.48913
43127	P14079	Q92922	1.0778
43128	P14079	Q96F24	0.75767
43129	P14079	Q6P5X5	1.3795
43130	P14079	Q9Y2Y0	1.2551
43131	P14079	Q16831	0.49326
43132	P14079	Q8IWD4	1.3222
43133	P14079	Q6ISU1	0.69075
43134	P14079	Q92621	1.1991
43135	P14079	Q6UXU1	1.1715
43136	P14079	Q8WWA1	1.2485
43137	P14079	Q70YC5	1.0991
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43139	P14079	Q96NB3	0.51682
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43141	P14079	Q6ZN32	0.72221
43142	P14079	Q6ZRF7	0.39965
43143	P14079	Q8TBZ8	0.69402
43144	P14079	Q75865	1.0842
43145	P14079	Q9Y2Z2	1.5239
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43147	P14079	Q70EK8	1.0551
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43150	P14079	P43490	0.69748
43151	P14079	Q04118	1.1715
43152	P14079	Q6Y7W6	0.65293
43153	P14079	P48380	0.98409
43154	P14079	Q6ZQR2	1.5458
43155	P14079	O95363	1.0136
43156	P14079	Q96EP0	0.20558
43157	P14079	Q14320	0.46585
43158	P14079	O95990	1.0831
43159	P14079	Q9BZD4	0.80134
43160	P14079	P52294	1.4023
43161	P14079	Q8N2H9	0.65175
43162	P14079	Q86V87	0.99816
43163	P14079	P00403	0.76541
43164	P14079	Q9H993	0.37056
43165	P14079	Q9Y3C8	0.51437
43166	P14079	Q14264	0.60504
43167	P14079	P51532	0.79012
43168	P14079	Q9H211	0.95809

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43170	P14079	Q5XG87	0.15525
43171	P14079	Q8NE00	1.2633
43172	P14079	Q8NCA9	0.335
43173	P14079	P09105	0.67533
43174	P14079	O60518	1.1388
43175	P14079	A8MUV8	1.0106
43176	P14079	Q14164	0.25232
43177	P14079	Q8N7B6	0.73941
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43180	P14079	Q9Y2T2	0.84417
43181	P14079	Q9Y678	0.75494
43182	P14079	Q9BV86	0.33293
43183	P14079	Q6P1X6	1.3103
43184	P14079	P49591	0.92101
43185	P14079	Q9HC24	0.27402
43186	P14079	Q96N76	0.65909
43187	P14079	Q9NP50	1.2152
43188	P14079	Q9UQB3	0.52048
43189	P14079	Q96I36	1.0946
43190	P14079	Q6UWZ7	0.84272
43191	P14079	Q96NM4	0.38002
43192	P14079	Q8WVP5	1.5386
43193	P14079	O95644	0.76684
43194	P14079	Q5VZ66	0.75883
43195	P14079	P21980	0.21313
43196	P14079	Q96S90	0.2718
43197	P14079	Q6VEQ5	0.84005
43198	P14079	Q9BXX5	0.80335
43199	P14079	Q5SWL7	1.1083
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43202	P14079	P17024	0.68453
43203	P14079	Q99497	0.091308
43204	P14079	Q8WYR1	0.39037
43205	P14079	Q9P255	0.74045
43206	P14079	Q9UNL4	0.50807
43207	P14079	Q92783	0.9133
43208	P14079	Q14592	0.60546
43209	P14079	Q9BTK6	0.84306
43210	P14079	Q9BRA0	0.28036
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43212	P14079	Q8N0U4	0.81511
43213	P14079	Q9GZX5	0.86826
43214	P14079	Q7Z4G4	0.35527
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43217	P14079	Q15742	0.46925
43218	P14079	Q96K49	0.79282
43219	P14079	O75800	0.6398
43220	P14079	Q3MJ62	0.48579
43221	P14079	C9J3V5	1.0795
43222	P14079	P0C5K7	0.33379
43223	P14079	P43307	0.80429
43224	P14079	Q7Z417	1.1629
43225	P14079	P54278	0.43186
43226	P14079	Q15170	2.1047
43227	P14079	Q9P013	1.2265
43228	P14079	P17568	0.19329
43229	P14079	Q8WTT2	0.59924
43230	P14079	P26368	0.60822
43231	P14079	Q9H5L6	0.77013
43232	P14079	Q2M389	0.74498
43233	P14079	P35475	0.52971
43234	P14079	Q6P2C8	0.93744
43235	P14079	Q9NSJ1	0.68895
43236	P14079	Q5U5X8	1.5594
43237	P14079	Q86U86	1.0804
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43239	P14079	A6NNL0	1.8041
43240	P14079	P56385	0.77685
43241	P14079	O95405	0.30299
43242	P14079	Q9Y6B7	0.49688
43243	P14079	Q8NFJ9	0.63134
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43245	P14079	Q96NG8	0.6166
43246	P14079	Q01538	0.45954
43247	P14079	Q9Y3C7	0.97429
43248	P14079	Q96MU5	1.2549
43249	P14079	O14646	0.44836
43250	P14079	Q9BSF4	0.74338
43251	P14079	Q5SYE7	1.2838
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43253	P14079	P58005	0.84857
43254	P14079	Q6ZN79	0.94289
43255	P14079	Q5T0J7	1.1691
43256	P14079	P0C866	0.51483
43257	P14079	P0C7M6	0.17064
43258	P14079	Q96DD7	0.78072
43259	P14079	Q01804	0.2747
43260	P14079	Q5VVC0	0.76785
43261	P14079	P49247	1.1377
43262	P14079	Q96S94	0.35751
43263	P14079	Q6PI77	1.283
43264	P14079	Q14865	0.37582
43265	P14079	Q66GS9	0.76582
43266	P14079	Q8TED0	0.31573
43267	P14079	Q60675	0.44679
43268	P14079	Q9BRP9	0.50849
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43271	P14079	Q9Y6G3	0.55627
43272	P14079	Q9BTP6	1.3429
43273	P14079	Q5BKU9	0.51526
43274	P14079	Q8NG57	0.80003
43275	P14079	Q629K1	1.0399
43276	P14079	O60688	0.68732
43277	P14079	B5MD39	0.28751
43278	P14079	Q9UDY4	0.78805
43279	P14079	Q9P1F3	1.2801
43280	P14079	P29372	1.2326
43281	P14079	Q2PZI1	1.5121
43282	P14079	Q96B49	1.4739
43283	P14079	Q99684	0.54469
43284	P14079	Q8IV56	1.1456
43285	P14079	Q8N2C9	0.64619
43286	P14079	Q8TEM1	0.72143
43287	P14079	Q6PCB6	0.34355
43288	P14079	O15392	0.28548
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43290	P14079	Q9NTM9	0.3112
43291	P14079	Q92610	0.24729
43292	P14079	P83876	0.97112
43293	P14079	Q6ZRS4	1.2979
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43296	P14079	Q7L4I2	2.1207
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43303	P14079	Q9ULP0	0.47958
43304	P14079	Q9NRX2	0.96926
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43307	P14079	A6NJV1	1.3341
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43312	P14079	Q8TEV9	1.2636
43313	P14079	Q6PEW1	0.19064
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43315	P14079	Q9H8H0	0.68182
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43317	P14079	Q8IXF0	0.37081
43318	P14079	Q5JT78	0.69382
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43326	P14079	A4D174	0.52953
43327	P14079	Q7LBR1	1.1214
43328	P14079	O95163	0.62066
43329	P14079	O75529	0.5236
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43335	P14079	Q8WV48	1.2485
43336	P14079	A8K5M9	1.6201
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43341	P14079	O75807	0.69313
43342	P14079	Q13536	1.1715
43343	P14079	Q6ZSR3	1.1715
43344	P14079	Q6ZUJ8	0.32152
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43347	P14079	O00487	0.28065
43348	P14079	Q0D2H9	0.84738
43349	P14079	O75570	1.0993
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43351	P14079	H3BN30	1.1715
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43357	P14079	Q6IPX3	1.543
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43363	P14079	Q9NQ4	0.27269
43364	P14079	Q495Y8	1.092
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43366	P14079	Q13428	1.7521
43367	P14079	Q13487	2.0772
43368	P14079	Q52LG2	0.95677
43369	P14079	Q8N9A8	1.2716
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43371	P14079	Q717R9	1.3143
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43374	P14079	Q9BXS4	0.83033
43375	P14079	Q9BPX5	0.19716
43376	P14079	Q9NWZ5	0.342
43377	P14079	Q9UPA5	0.58904
43378	P14079	Q16186	0.63176
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43383	P14079	Q3KNT7	0.41165
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43390	P14079	Q00994	1.5182
43391	P14079	Q92902	0.34412
43392	P14079	Q9P260	0.80964
43393	P14079	P0DI83	1.1422
43394	P14079	Q9UKK9	0.83288
43395	P14079	Q92698	0.28319
43396	P14079	Q9NTJ4	0.44561



43397	P14079	P51587	0.20732
43398	P14079	O60216	0.94366
43399	P14079	Q5GH76	1.3596
43400	P14079	Q6ICG7	1.1715
43401	P14079	Q8N0Y2	0.55847
43402	P14079	Q8N720	0.86517
43403	P14079	P80294	0.83367
43404	P14079	Q1MSJ5	1.7629
43405	P14079	Q8IYT3	0.26344
43406	P14079	Q6UWF3	1.3655
43407	P14079	Q8IUUC3	1.497
43408	P14079	O60684	0.50025
43409	P14079	P07438	0.77468
43410	P14079	Q75L30	1.1715
43411	P14079	Q5JRV8	1.1449
43412	P14079	Q8N8X6	0.22668
43413	P14079	Q6NXN4	1.2737
43414	P14079	Q8IV20	1.0931
43415	P14079	Q14966	0.30514
43416	P14079	Q9NXJ5	1.0009
43417	P14079	Q15070	0.62543
43418	P14079	A6NCN2	0.99362
43419	P14079	Q08AI8	1.3222
43420	P14079	P22557	0.074483
43421	P14079	Q6ZNA4	0.40493
43422	P14079	P69208	1.1715
43423	P14079	P29401	0.31202
43424	P14079	Q8N7Z2	0.89121
43425	P14079	Q6ZRI6	1.185
43426	P14079	Q8N769	0.83516
43427	P14079	Q8IX15	0.42798
43428	P14079	Q9NVC6	0.67274
43429	P14079	O75179	0.50099
43430	P14079	P07737	0.96923
43431	P14079	Q99966	0.19704
43432	P14079	Q8WV83	0.82384
43433	P14079	Q96N19	0.97467
43434	P14079	Q13868	0.52815
43435	P14079	Q32NC0	0.97877
43436	P14079	Q8IWZ3	1.074
43437	P14079	P49184	0.71019
43438	P14079	Q8NI27	1.2149
43439	P14079	P54198	0.99196
43440	P14079	Q9H7X3	0.52651
43441	P14079	P59780	0.2355
43442	P14079	P32189	0.87601
43443	P14079	Q9ULN7	1.5833
43444	P14079	Q96JG6	0.43687
43445	P14079	P58304	0.27651
43446	P14079	P0CJ68	1.3031
43447	P14079	Q9HC16	0.22442
43448	P14079	Q9UNX4	0.3761
43449	P14079	Q9H773	1.0021
43450	P14079	O94855	0.61526
43451	P14079	O00189	0.66338
43452	P14079	Q5H9I0	0.3082
43453	P14079	Q9P1Q0	0.6474
43454	P14079	Q9BTV7	0.37606
43455	P14079	Q9UHC1	0.56898
43456	P14079	Q96ST8	1.6547
43457	P14079	Q6IEG0	0.9684
43458	P14079	P51531	0.75882
43459	P14079	P42704	1.1178
43460	P14079	Q96SE7	0.76643
43461	P14079	Q96MF0	0.64425
43462	P14079	Q14209	1.0257
43463	P14079	Q8N8G6	0.94062
43464	P14079	Q96M89	0.13861
43465	P14079	Q8IZ13	0.8753
43466	P14079	Q9UKV0	0.3861
43467	P14079	O43813	0.45058
43468	P14079	Q96DZ7	1.0346
43469	P14079	O75832	0.75652
43470	P14079	O94919	0.97046
43471	P14079	Q96MI9	0.55521
43472	P14079	Q9GZN2	0.55411

43473	P14079	Q9HCH5	0.71118
43474	P14079	Q5VIY5	0.99996
43475	P14079	A6NCD4	0.90661
43476	P14079	O43167	0.77928
43477	P14079	M0R1G4	0.21851
43478	P14079	P14866	0.54303
43479	P14079	Q9BUB7	1.4714
43480	P14079	P14868	1.2294
43481	P14079	Q5T200	1.2419
43482	P14079	Q8N726	0.80782
43483	P14079	Q9Y266	1.364
43484	P14079	Q6P1Q0	0.25792
43485	P14079	Q86U28	0.4127
43486	P14079	A8MZ59	0.24936
43487	P14079	Q05516	0.99655
43488	P14079	Q96QG7	0.40511
43489	P14079	Q4LE39	0.73183
43490	P14079	Q3KP66	1.7957
43491	P14079	Q9HA82	0.68895
43492	P14079	P23246	0.77175
43493	P14079	Q8N8E3	0.69938
43494	P14079	Q16540	0.37584
43495	P14079	Q96KA5	1.0112
43496	P14079	Q587I9	1.2345
43497	P14079	Q8TAK5	0.5385
43498	P14079	O75446	1.929
43499	P14079	O95153	0.72374
43500	P14079	P46783	1.4322
43501	P14079	Q96LW4	0.35518
43502	P14079	P46060	0.33495
43503	P14079	Q86US8	0.46056
43504	P14079	Q16143	0.35228
43505	P14079	Q9HAP2	0.63552
43506	P14079	Q9H9K5	0.73996
43507	P14079	A6NC42	0.96687
43508	P14079	Q12988	0.42367
43509	P14079	Q9P2H0	0.88941
43510	P14079	P07910	0.2461
43511	P14079	Q32Q52	0.7102
43512	P14079	Q9UI14	0.22227
43513	P14079	P0CG23	0.45067
43514	P14079	Q8NI08	0.9496
43515	P14079	Q9UBU9	0.67562
43516	P14079	Q5T3I0	0.20547
43517	P14079	Q9Y5A6	0.82264
43518	P14079	P14927	0.27613
43519	P14079	O60287	1.6757
43520	P14079	Q9UFW8	0.46096
43521	P14079	Q9NPD3	0.13667
43522	P14079	B4DYI2	0.49735
43523	P14079	Q13310	0.44313
43524	P14079	Q96KW2	1.2257
43525	P14079	Q9NRN9	0.64839
43526	P14079	Q8NBZ0	1.6903
43527	P14079	Q9BYQ2	1.3698
43528	P14079	O96004	0.41837
43529	P14079	Q92748	1.6473
43530	P14079	Q8IYL3	1.6012
43531	P14079	Q96PG8	1.1715
43532	P14079	Q86XG9	0.38249
43533	P14079	Q9BXF9	0.33138
43534	P14079	P22736	0.44583
43535	P14079	A6NKD9	1.72
43536	P14079	P52594	0.30341
43537	P14079	Q8TCJ0	1.4931
43538	P14079	P0CG20	0.8917
43539	P14079	Q9HD42	0.98983
43540	P14079	Q13838	0.082615
43541	P14079	Q13573	0.62856
43542	P14079	O75674	0.58471
43543	P14079	Q9GZR2	0.048668
43544	P14079	Q6Q759	1.4707
43545	P14079	O60645	0.68687
43546	P14079	Q8N328	0.76641
43547	P14079	Q8NEG4	0.89733
43548	P14079	Q08E93	1.1715

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43550	P14079	Q9P1Z9	0.9124
43551	P14079	P57075	0.36784
43552	P14079	Q6L9T8	1.1532
43553	P14079	Q8NI32	0.75465
43554	P14079	Q8NFU3	0.23838
43555	P14079	Q99856	0.73161
43556	P14079	Q92800	0.41299
43557	P14079	Q9H305	0.19119
43558	P14079	E9PJ23	0.4201
43559	P14079	Q14106	0.58466
43560	P14079	O95067	0.80974
43561	P14079	P78371	0.51582
43562	P14079	Q08378	0.45708
43563	P14079	Q96C23	0.46173
43564	P14079	O60303	0.80894
43565	P14079	Q8IZD9	0.21699
43566	P14079	Q92624	1.3212
43567	P14079	Q9NVM9	1.1999
43568	P14079	O75208	1.1847
43569	P14079	A4QN01	0.64657
43570	P14079	Q76KX8	0.99887
43571	P14079	A6H8Z2	0.8266
43572	P14079	P05198	0.81886
43573	P14079	Q6NZ36	0.28311
43574	P14079	Q8NAB5	1.1715
43575	P14079	Q9P2T0	1.356
43576	P14079	A6NNW6	1.1882
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43578	P14079	O95922	0.12368
43579	P14079	P31358	1.1139
43580	P14079	Q9H840	0.88413
43581	P14079	Q9NU23	1.0186
43582	P14079	Q96D70	1.6528
43583	P14079	Q9UBF9	0.32155
43584	P14079	Q5SRE7	0.62533
43585	P14079	Q8IZP0	0.42014
43586	P14079	Q9BWE0	0.33127
43587	P14079	P51606	0.5246
43588	P14079	P61254	1.0605
43589	P14079	P26371	1.1715
43590	P14079	Q9NRI5	0.47052
43591	P14079	O60613	0.96726
43592	P14079	O95433	0.96673
43593	P14079	Q6P582	1.3632
43594	P14079	Q6ZUL3	1.1715
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43596	P14079	O43812	0.30975
43597	P14079	O60268	0.79172
43598	P14079	Q8WW01	0.99028
43599	P14079	Q6K0P9	0.40896
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43601	P14079	Q8NE86	0.79398
43602	P14079	O94929	0.33346
43603	P14079	Q5T8A7	1.3731
43604	P14079	Q8N3I7	0.94544
43605	P14079	Q9BSA9	1.2485
43606	P14079	Q96EH3	0.76524
43607	P14079	Q13105	0.60915
43608	P14079	Q969P5	0.21276
43609	P14079	O00213	0.37999
43610	P14079	Q8NCQ7	0.75172
43611	P14079	Q96MC4	1.558
43612	P14079	Q7Z4S6	0.31989
43613	P14079	Q8N9V7	1.5263
43614	P14079	Q5MJ68	0.76554
43615	P14079	Q9Y383	1.1069
43616	P14079	Q15750	0.90695
43617	P14079	Q9BUE6	0.20081
43618	P14079	Q13394	0.66081
43619	P14079	Q5JRK9	1.7294
43620	P14079	Q9H503	0.77392
43621	P14079	Q5SZB4	0.82206
43622	P14079	Q8N9S9	0.4892
43623	P14079	O15481	0.23019
43624	P14079	P15976	0.30224

43625	P14079	P08729	1.7444
43626	P14079	Q9BSH4	1.7221
43627	P14079	P50914	1.21
43628	P14079	Q5T5D7	0.67256
43629	P14079	P35232	0.68511
43630	P14079	Q9NVH6	0.76017
43631	P14079	Q9BWG6	1.1358
43632	P14079	P60410	1.5617
43633	P14079	Q9BWT1	1.6581
43634	P14079	P10916	0.25533
43635	P14079	Q8IYB0	1.1715
43636	P14079	A0JLT2	1.5977
43637	P14079	Q8TEE9	1.4836
43638	P14079	Q6P1N0	0.67818
43639	P14079	O60895	0.24754
43640	P14079	Q3MIS6	0.98685
43641	P14079	P68363	0.2946
43642	P14079	Q9BYN7	0.38904
43643	P14079	A6NGY3	0.82059
43644	P14079	Q659C4	0.91879
43645	P14079	Q5VWM3	0.12466
43646	P14079	Q5SQI0	0.54911
43647	P14079	P30084	0.15203
43648	P14079	Q9BV73	0.99643
43649	P14079	Q99442	0.907
43650	P14079	Q14244	1.2344
43651	P14079	Q6ZRS2	0.32378
43652	P14079	Q9UILL1	0.95034
43653	P14079	O43708	0.29226
43654	P14079	Q9BRX8	0.40568
43655	P14079	Q8NEL9	0.20189
43656	P14079	O60346	0.30386
43657	P14079	P06744	0.85028
43658	P14079	Q96G61	0.56413
43659	P14079	Q8TE69	0.56221
43660	P14079	Q7Z2W9	0.43647
43661	P14079	Q9BT22	1.2204
43662	P14079	Q96KX1	0.24242
43663	P14079	Q96GI7	1.3222
43664	P14079	Q9NP85	0.20471
43665	P14079	Q9HCU8	1.0744
43666	P14079	Q96D46	1.4726
43667	P14079	Q9P086	0.9883
43668	P14079	Q9Y5L5	1.743
43669	P14079	Q9C002	0.56818
43670	P14079	Q8WWQ0	0.6998
43671	P14079	Q9GZS3	1.0011
43672	P14079	Q8NC26	0.93222
43673	P14079	Q86YS3	0.23475
43674	P14079	Q92785	0.77591
43675	P14079	Q9H246	0.85015
43676	P14079	Q96C11	0.44737
43677	P14079	Q8IZL2	1.0038
43678	P14079	Q86XK2	0.5155
43679	P14079	Q9BXW3	1.1715
43680	P14079	Q92636	0.50157
43681	P14079	P59037	1.5616
43682	P14079	Q9NY27	1.5413
43683	P14079	Q6NVV0	1.3468
43684	P14079	A1A5B4	1.1778
43685	P14079	Q5T5J6	1.2751
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43688	P14079	Q9NPC6	1.559
43689	P14079	Q5SZJ8	0.47375
43690	P14079	Q9Y5Q9	0.32842
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43692	P14079	G3V211	1.553
43693	P14079	Q9P2J8	0.75812
43694	P14079	P53805	0.58085
43695	P14079	Q96Q80	0.51059
43696	P14079	Q14739	0.28071
43697	P14079	Q6P387	1.0782
43698	P14079	A8MVW5	1.0122
43699	P14079	Q9POL1	0.70737
43700	P14079	Q9UHV9	0.89957

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43702	P14079	Q32MZ4	1.3755
43703	P14079	Q9C0I3	1.5139
43704	P14079	P19237	0.010469
43705	P14079	Q9BSK0	1.741
43706	P14079	Q5SZD4	0.97827
43707	P14079	Q9UPW5	0.45198
43708	P14079	Q9NRS6	0.11399
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43710	P14079	Q6ZSV7	0.79071
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43712	P14079	Q86Y39	1.1345
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43714	P14079	Q969X0	0.064522
43715	P14079	Q6ZUT1	1.1715
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43717	P14079	Q96C86	0.77799
43718	P14079	P46199	0.88888
43719	P14079	Q9HCC9	0.6116
43720	P14079	Q6UWK7	1.1715
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43722	P14079	P10909	0.1271
43723	P14079	Q9BRB3	0.90835
43724	P14079	Q8TBZ9	1.6989
43725	P14079	Q9H0R3	1.1069
43726	P14079	Q14596	0.22452
43727	P14079	Q9UH64	0.53764
43728	P14079	A6NJY4	1.1715
43729	P14079	Q9UBC1	0.66379
43730	P14079	O75157	0.72881
43731	P14079	Q1W6H9	1.6505
43732	P14079	P56278	0.45678
43733	P14079	O94913	0.45689
43734	P14079	Q5T2P8	0.1776
43735	P14079	Q15050	1.0316
43736	P14079	Q9BWG4	0.22967
43737	P14079	Q8ND76	0.9309
43738	P14079	Q02221	0.73241
43739	P14079	Q9P2D3	1.0385
43740	P14079	Q6L8H4	1.1715
43741	P14079	Q15527	0.9502
43742	P14079	A5LHX3	0.65923
43743	P14079	O75569	0.34121
43744	P14079	Q5VT98	0.22339
43745	P14079	Q86SG2	0.28073
43746	P14079	O15116	0.83104
43747	P14079	Q96M63	0.46897
43748	P14079	Q9BY14	0.69311
43749	P14079	Q96MG8	0.21329
43750	P14079	P86791	0.80083
43751	P14079	Q9NS39	0.055104
43752	P14079	Q96LM9	0.32354
43753	P14079	Q8N344	0.71985
43754	P14079	P53992	1.1942
43755	P14079	A4D2H0	0.10259
43756	P14079	Q13439	1.3598
43757	P14079	Q8TCF1	0.51234
43758	P14079	O95639	0.60733
43759	P14079	Q9BUL8	0.85643
43760	P14079	P04844	0.97025
43761	P14079	Q9H2K2	0.28681
43762	P14079	Q5VUD6	1.2163
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43764	P14079	Q5TA79	1.1715
43765	P14079	Q9UKC9	0.64648
43766	P14079	Q14674	0.27943
43767	P14079	Q9Y303	0.17963
43768	P14079	Q86UQ8	0.63496
43769	P14079	Q5T699	0.61046
43770	P14079	Q96NL0	0.83201
43771	P14079	Q587J8	0.46134
43772	P14079	Q9Y615	0.89007
43773	P14079	Q9Y3F4	0.94613
43774	P14079	Q9ULW0	1.5087
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43776	P14079	Q8WUH6	0.84704

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43779	P14079	Q8NAV2	0.9261
43780	P14079	Q9HAF1	0.98895
43781	P14079	Q4VC44	1.297
43782	P14079	Q6NTE8	0.36355
43783	P14079	Q9UHA4	0.50155
43784	P14079	Q5VY09	1.566
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43786	P14079	Q9H074	0.51819
43787	P14079	Q8N3F8	0.77086
43788	P14079	Q9NY43	0.419
43789	P14079	O60281	0.37848
43790	P14079	Q8WXJ9	1.0423
43791	P14079	P32519	1.1905
43792	P14079	Q13112	1.3877
43793	P14079	Q969E8	1.6789
43794	P14079	Q9Y2J4	0.3248
43795	P14079	Q13216	0.39771
43796	P14079	Q96H12	1.6347
43797	P14079	P62312	0.83144
43798	P14079	Q6X4T0	0.70052
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43800	P14079	Q8NA70	0.55769
43801	P14079	Q96CP2	0.65195
43802	P14079	P0DKL9	1.5322
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43805	P14079	Q8N859	0.98344
43806	P14079	P16455	0.67096
43807	P14079	Q9Y5J7	0.4127
43808	P14079	Q9H6F5	0.85408
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43811	P14079	Q13889	0.40699
43812	P14079	P50990	0.071366
43813	P14079	Q9Y4F9	0.34592
43814	P14079	Q6UYE1	1.4032
43815	P14079	Q8N1E6	0.40123
43816	P14079	Q6NSI4	0.76853
43817	P14079	Q8NHM5	0.27773
43818	P14079	O95848	1.225
43819	P14079	Q9UK11	0.78948
43820	P14079	Q6ZV65	0.69358
43821	P14079	O60504	0.8812
43822	P14079	Q9BQ65	1.1766
43823	P14079	P81408	1.2303
43824	P14079	Q8N5I3	0.11285
43825	P14079	P57679	0.79923
43826	P14079	Q8N128	1.1715
43827	P14079	Q9BXW9	1.0072
43828	P14079	Q8N9M1	0.79582
43829	P14079	P10746	0.62307
43830	P14079	P16157	0.38856
43831	P14079	Q8TAQ2	1.2834
43832	P14079	Q9Y6Z2	1.1715
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43835	P14079	P53803	1.1396
43836	P14079	O95905	0.95491
43837	P14079	Q8WXF5	1.0104
43838	P14079	Q96K83	0.61785
43839	P14079	Q6IPU0	1.3681
43840	P14079	O95954	0.67229
43841	P14079	Q13472	0.087376
43842	P14079	P19484	0.52387
43843	P14079	Q13111	1.779
43844	P14079	Q9GZU8	0.96939
43845	P14079	Q6PG37	1.0311
43846	P14079	Q7L5Y9	0.61353
43847	P14079	Q8N883	0.52115
43848	P14079	O60732	0.56221
43849	P14079	Q12968	0.61307
43850	P14079	Q03923	1.0696
43851	P14079	Q9Y3A5	0.85961
43852	P14079	Q15025	0.72057

43853	P14079	Q96B97	0.55402
43854	P14079	P62937	0.62826
43855	P14079	Q9NV29	1.0526
43856	P14079	Q6UWW9	1.0014
43857	P14079	Q9BQM9	0.99732
43858	P14079	Q8TF74	0.85926
43859	P14079	P34897	0.26877
43860	P14079	Q86SQ9	0.27371
43861	P14079	A8MTA8	0.76595
43862	P14079	Q9UJ41	0.38879
43863	P14079	Q1A5X6	1.3222
43864	P14079	O60759	0.58466
43865	P14079	Q9NP98	1.3248
43866	P14079	Q9UKX2	0.25261
43867	P14079	Q53R41	0.29361
43868	P14079	Q14847	0.32409
43869	P14079	Q9NQP4	0.98366
43870	P14079	Q9UJK0	1.6736
43871	P14079	O00423	0.79677
43872	P14079	Q15323	0.89111
43873	P14079	Q8NCU4	1.0613
43874	P14079	Q99747	0.82614
43875	P14079	P41220	0.29412
43876	P14079	Q9NVH2	1.0693
43877	P14079	A6H8Y1	0.96775
43878	P14079	Q9BZV1	1.0515
43879	P14079	Q5TC12	0.81304
43880	P14079	Q15124	0.13543
43881	P14079	Q13427	0.47033
43882	P14079	Q7Z7C7	0.78102
43883	P14079	Q96MK2	0.64279
43884	P14079	Q96NI8	0.92549
43885	P14079	Q9Y2B2	1.6276
43886	P14079	Q9NVR7	0.66419
43887	P14079	Q5M9Q1	1.3529
43888	P14079	Q8N0V3	1.5081
43889	P14079	Q9H2P0	0.18683
43890	P14079	Q6ZMS7	0.77037
43891	P14079	Q9H1B4	0.22239
43892	P14079	Q9NZU5	0.25726
43893	P14079	Q8IYI8	0.766
43894	P14079	Q14129	1.0354
43895	P14079	O43900	0.30548
43896	P14079	P62979	0.66459
43897	P14079	O00399	0.28193
43898	P14079	Q5VWP3	1.5594
43899	P14079	Q06732	0.44092
43900	P14079	Q9H900	0.65763
43901	P14079	P46937	0.85047
43902	P14079	Q5SVQ8	0.68319
43903	P14079	Q75MW2	1.1965
43904	P14079	Q10571	1.1224
43905	P14079	O43829	0.83122
43906	P14079	A8K8P3	1.1714
43907	P14079	P18615	0.94191
43908	P14079	Q9Y6J3	1.1715
43909	P14079	Q5HYJ3	1.4627
43910	P14079	Q5T089	0.40977
43911	P14079	Q86YC2	0.82173
43912	P14079	P60022	0.81621
43913	P14079	A6NCW3	1.4194
43914	P14079	Q9UGY1	0.49318
43915	P14079	Q9GZP9	0.51059
43916	P14079	O71037	0.70023
43917	P14079	Q71RG6	1.1715
43918	P14079	Q9H0A8	1.3776
43919	P14079	Q96MR9	0.91481
43920	P14079	Q9UIG4	0.98371
43921	P14079	O14907	0.53101
43922	P14079	Q6ZN55	0.52025
43923	P14079	Q86UD1	0.73326
43924	P14079	P60608	0.79007
43925	P14079	Q56UQ5	0.045291
43926	P14079	Q86YP4	0.73315
43927	P14079	Q6ZNK6	1.6477
43928	P14079	A6NHQ2	0.22433

43929	P14079	Q9BYE3	1.1715
43930	P14079	Q8TCD1	0.99803
43931	P14079	O60869	0.51876
43932	P14079	Q96HR8	1.6353
43933	P14079	O00151	0.41523
43934	P14079	F5GYI3	1.7166
43935	P14079	Q96M29	1.0096
43936	P14079	Q6P2D0	0.57947
43937	P14079	Q96GS4	1.7191
43938	P14079	A0PJX2	0.89539
43939	P14079	O95182	0.84392
43940	P14079	O43715	1.192
43941	P14079	Q32P41	0.35438
43942	P14079	Q32NB8	1.019
43943	P14079	Q6XXX2	0.49812
43944	P14079	Q01546	0.99979
43945	P14079	Q96S99	0.23133
43946	P14079	Q96G27	1.2303
43947	P14079	Q86YL5	0.48973
43948	P14079	A6ND36	0.27984
43949	P14079	A6NKF2	0.81531
43950	P14079	Q13625	0.50585
43951	P14079	Q9UM54	0.098001
43952	P14079	Q9Y2P7	0.61408
43953	P14079	Q9Y3Y2	1.7668
43954	P14079	Q86UK5	0.6607
43955	P14079	Q8N1N5	0.59017
43956	P14079	A6PVY3	0.94424
43957	P14079	O00233	0.99093
43958	P14079	Q15526	0.6834
43959	P14079	Q9NUU6	0.95719
43960	P14079	O94864	0.89436
43961	P14079	O60784	0.63709
43962	P14079	A5PLN7	1.3222
43963	P14079	Q6ZMV5	0.94057
43964	P14079	Q8N5N4	1.2303
43965	P14079	Q4G0I0	0.77839
43966	P14079	Q04917	0.45795
43967	P14079	Q9P2R7	0.68729
43968	P14079	Q9NUQ6	0.42364
43969	P14079	Q8TAP6	1.3822
43970	P14079	P41161	1.0851
43971	P14079	Q6UXQ8	1.1715
43972	P14079	Q96NL3	0.62309
43973	P14079	O60934	0.26668
43974	P14079	P60673	0.50523
43975	P14079	Q96B18	0.47276
43976	P14079	O75190	0.6652
43977	P14079	Q5JS54	1.24
43978	P14079	Q8IXX5	1.1391
43979	P14079	Q8TDN6	0.39237
43980	P14079	Q5T7P2	1.1715
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43982	P14079	P35527	0.99997
43983	P14079	Q7Z2X7	1.2734
43984	P14079	Q9UJW0	0.90456
43985	P14079	Q12796	2.1537
43986	P14079	C9J6K1	1.249
43987	P14079	Q8TF46	0.22934
43988	P14079	Q9NX53	0.56221
43989	P14079	Q6ZMI0	0.47971
43990	P14079	Q96JJ3	0.55099
43991	P14079	Q8NFI3	0.94184
43992	P14079	Q9BSD3	0.82042
43993	P14079	Q969I3	0.80477
43994	P14079	Q86XL3	0.40214
43995	P14079	P49918	0.76867
43996	P14079	Q9Y3Q8	1.1047
43997	P14079	Q9BXU2	1.2057
43998	P14079	Q6P2E9	0.96279
43999	P14079	P62841	0.96768
44000	P14079	Q96E29	0.99002
44001	P14079	P31350	0.36248
44002	P14079	Q9H213	0.12669
44003	P14079	Q5RHP9	0.89479
44004	P14079	Q92597	0.70112



44005	P14079	Q8IUD2	0.976
44006	P14079	Q76KD6	0.88636
44007	P14079	Q3LI59	1.1715
44008	P14079	Q8N4J0	1.7729
44009	P14079	O94777	1.0624
44010	P14079	P18124	0.87813
44011	P14079	Q8NCE0	0.96602
44012	P14079	O15527	0.52768
44013	P14079	Q96L92	0.92912
44014	P14079	P61758	0.71861
44015	P14079	Q7RTX8	0.045609
44016	P14079	B4DJY2	0.80886
44017	P14079	Q3SXZ3	0.64025
44018	P14079	Q96RM1	1.1715
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44021	P14079	Q9UPT5	0.76117
44022	P14079	Q7Z7F0	0.13988
44023	P14079	Q14444	0.38828
44024	P14079	Q8TC20	0.10229
44025	P14079	Q8NEV9	0.84969
44026	P14079	P63165	0.97935
44027	P14079	P15559	0.43313
44028	P14079	Q5R3K3	0.84874
44029	P14079	Q8NE22	1.7829
44030	P14079	Q8NEF3	0.71138
44031	P14079	Q99828	0.36198
44032	P14079	Q76N32	0.45191
44033	P14079	P62380	0.38349
44034	P14079	Q9H3C7	1.7286
44035	P14079	Q6XCG6	1.1715
44036	P14079	Q9UHI6	0.39976
44037	P14079	Q9H706	0.56221
44038	P14079	Q9BTE3	0.74284
44039	P14079	Q96MT4	1.4367
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44042	P14079	Q14240	0.17377
44043	P14079	Q96A49	1.4058
44044	P14079	F5H284	0.18124
44045	P14079	Q8N6F8	0.080393
44046	P14079	Q86YA3	1.6718
44047	P14079	A6NGD5	0.53786
44048	P14079	Q5MJ10	1.5871
44049	P14079	Q9Y448	1.0095
44050	P14079	O00115	0.72547
44051	P14079	Q7Z6J8	1.1093
44052	P14079	Q569H4	1.3222
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44054	P14079	Q9H9H5	1.2353
44055	P14079	Q8N9R6	0.97965
44056	P14079	Q7Z4G1	2.0433
44057	P14079	P0C7Q5	1.2643
44058	P14079	O43379	0.3613
44059	P14079	Q9Y371	0.228
44060	P14079	Q9BVC4	0.61906
44061	P14079	P35998	0.63119
44062	P14079	O60711	0.53235
44063	P14079	Q14118	0.25133
44064	P14079	Q96SZ4	0.44187
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44066	P14079	P07919	0.68913
44067	P14079	Q8TEA1	0.54929
44068	P14079	Q5T319	1.1715
44069	P14079	A5YKK6	1.4411
44070	P14079	Q7Z3C6	0.65483
44071	P14079	Q9P217	0.55614
44072	P14079	P78549	0.34831
44073	P14079	Q9NZL9	0.10783
44074	P14079	Q9BQA5	0.93959
44075	P14079	Q9H147	1.2474
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44078	P14079	Q9H0C3	1.218
44079	P14079	Q14159	1.9029
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44082	P14079	Q9H3E2	0.46526
44083	P14079	O15155	0.35634
44084	P14079	Q9P215	0.61985
44085	P14079	Q7L3S4	0.51366
44086	P14079	O75461	0.18838
44087	P14079	P31271	0.14603
44088	P14079	P56211	0.75629
44089	P14079	Q9UBW7	1.3567
44090	P14079	Q6ZMK1	0.17701
44091	P14079	A6NHR8	1.1715
44092	P14079	P15923	0.58496
44093	P14079	Q8WWC4	1.2532
44094	P14079	Q15306	0.60977
44095	P14079	Q9NR56	0.54694
44096	P14079	Q8NAS9	0.6576
44097	P14079	Q96M61	0.56221
44098	P14079	Q9NS37	0.78193
44099	P14079	Q14409	0.88589
44100	P14079	K7EJ46	1.1715
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44106	P14079	Q9HAU4	0.23799
44107	P14079	P48443	0.25311
44108	P14079	Q9BVV6	1.1715
44109	P14079	Q9UHK0	0.52879
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44111	P14079	Q96HT8	2.1833
44112	P14079	O60870	0.95651
44113	P14079	O43830	0.53511
44114	P14079	P62314	0.8634
44115	P14079	Q9HD64	0.9953
44116	P14079	Q96LX8	0.66944
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44118	P14079	P54253	0.90763
44119	P14079	Q69YQ0	0.54795
44120	P14079	P14324	0.24032
44121	P14079	Q6UX82	0.91704
44122	P14079	Q13156	0.61476
44123	P14079	Q8IWN6	1.1275
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44125	P14079	P11166	0.37256
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44128	P14079	P05413	0.39416
44129	P14079	Q9BYU5	1.1584
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44132	P14079	Q496H8	1.12
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44134	P14079	Q9H9A7	0.69474
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44139	P14079	Q5VYK3	0.48581
44140	P14079	Q8TDX5	0.43148
44141	P14079	Q9Y2T3	0.53879
44142	P14079	Q5BJF2	1.2205
44143	P14079	Q9C0H9	0.61126
44144	P14079	Q9NUQ3	0.56526
44145	P14079	Q86YG4	0.97848
44146	P14079	Q14258	0.76727
44147	P14079	Q8N7G0	0.28169
44148	P14079	Q15797	0.5408
44149	P14079	Q96HJ3	1.3222
44150	P14079	Q9BQI6	0.33298
44151	P14079	Q6ZRR5	0.89497
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44153	P14079	Q8WW18	1.3222
44154	P14079	P06733	0.56239
44155	P14079	Q16600	0.55492
44156	P14079	Q9H299	0.50824

44157	P14079	Q96BJ3	1.1899
44158	P14079	O43298	0.1949
44159	P14079	P79522	0.91702
44160	P14079	P30793	0.22948
44161	P14079	Q6YHU6	0.25993
44162	P14079	Q9H9Q2	0.29546
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44164	P14079	Q8TBC5	0.24971
44165	P14079	Q969V6	1.4144
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44167	P14079	P33316	0.65589
44168	P14079	O60678	0.23621
44169	P14079	Q96NT0	0.25118
44170	P14079	Q13065	0.5777
44171	P14079	Q03933	0.51906
44172	P14079	Q9NWA0	2.057
44173	P14079	P61077	0.61533
44174	P14079	Q6ZRV3	1.1715
44175	P14079	Q5TA82	1.1715
44176	P14079	Q08211	0.26295
44177	P14079	P25685	0.25982
44178	P14079	Q14765	0.30746
44179	P14079	Q7RTT4	0.31443
44180	P14079	O75155	0.89589
44181	P14079	Q9H9Z2	0.79628
44182	P14079	A5YM69	0.7896
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44184	P14079	Q9Y2F5	0.88463
44185	P14079	Q04695	1.0011
44186	P14079	Q96BN2	1.3084
44187	P14079	Q8N326	0.88101
44188	P14079	Q16385	0.93972
44189	P14079	Q96DZ1	0.70787
44190	P14079	Q9NYW8	0.5383
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44193	P14079	Q969N2	0.70065
44194	P14079	P10827	0.24351
44195	P14079	Q9HBV2	1.2485
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44197	P14079	Q5T1Q4	0.84328
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44199	P14079	Q4G0F5	0.48942
44200	P14079	Q9UHX1	0.66392
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44205	P14079	P57081	1.1625
44206	P14079	Q96NT5	0.67651
44207	P14079	Q9UKK3	0.78568
44208	P14079	Q95822	0.4559
44209	P14079	Q96AH0	0.95705
44210	P14079	P62952	1.1848
44211	P14079	F2Z3M2	1.1715
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44215	P14079	Q6PD62	0.61691
44216	P14079	O95453	0.77496
44217	P14079	Q96JM2	0.39971
44218	P14079	Q9HB03	0.77014
44219	P14079	Q96JC4	0.70617
44220	P14079	O14925	0.64638
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44225	P14079	I3L1E1	0.84303
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44227	P14079	A2RUB1	1.3222
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44231	P14079	Q9BRQ5	0.42266
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44234	P14079	Q9NWS0	0.70909
44235	P14079	P23025	0.73853
44236	P14079	A8MQT2	0.1307
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44239	P14079	P29084	1.6054
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44243	P14079	A6NFC5	1.2954
44244	P14079	Q7Z465	0.93837
44245	P14079	Q3SYF9	1.1715
44246	P14079	Q8N8A8	1.1755
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44248	P14079	P0CJ77	1.3031
44249	P14079	Q9H1Y0	0.73969
44250	P14079	Q03989	0.39249
44251	P14079	Q8IVB5	0.48967
44252	P14079	Q86UN6	0.69432
44253	P14079	P23497	1.0002
44254	P14079	P62266	1.1503
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44256	P14079	P0C7V9	1.5082
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44258	P14079	P14649	0.34468
44259	P14079	Q16740	0.84796
44260	P14079	Q9BYP9	1.3698
44261	P14079	Q96BJ8	0.10685
44262	P14079	Q5JSS6	0.98355
44263	P14079	P30304	0.83486
44264	P14079	Q6NUR6	1.3372
44265	P14079	Q86TJ5	0.55217
44266	P14079	Q9C093	0.36672
44267	P14079	Q9NQZ5	0.57079
44268	P14079	Q6P2C0	0.86568
44269	P14079	Q99608	0.34667
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44271	P14079	P61956	0.84136
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44273	P14079	P57071	0.31932
44274	P14079	Q8IWIY8	0.51176
44275	P14079	Q6ZU80	0.39441
44276	P14079	Q14249	0.22309
44277	P14079	Q9NQ90	1.0151
44278	P14079	Q5QFB9	1.0092
44279	P14079	Q05048	0.86149
44280	P14079	Q15652	0.44538
44281	P14079	Q9NQZ8	0.5751
44282	P14079	Q9Y2R5	0.94541
44283	P14079	P60006	1.2213
44284	P14079	Q5T8R8	0.41994
44285	P14079	Q9UI72	1.1715
44286	P14079	Q8NA19	0.23227
44287	P14079	P61550	0.72581
44288	P14079	Q3KQV3	0.64419
44289	P14079	Q9NQ94	0.28459
44290	P14079	Q9H2X8	1.0754
44291	P14079	Q6ZP98	1.0541
44292	P14079	Q96LV5	0.39499
44293	P14079	Q96HA8	1.5033
44294	P14079	P59942	1.2711
44295	P14079	Q8TF40	1.3397
44296	P14079	Q9H307	1.4123
44297	P14079	P17027	0.51784
44298	P14079	Q6ZT52	0.049457
44299	P14079	Q95149	0.81211
44300	P14079	Q9NRQ5	1.1715
44301	P14079	A6NGQ2	1.0186
44302	P14079	Q8N1A0	0.69249
44303	P14079	P51610	0.5922
44304	P14079	Q7Z3E2	1.1859
44305	P14079	Q6EKJ0	0.26649
44306	P14079	A8MY62	0.27841
44307	P14079	Q9P2W6	1.1715
44308	P14079	P54845	0.41009

44309	P14079	Q9UL16	0.56417
44310	P14079	Q9NPI7	0.76351
44311	P14079	Q92890	0.83702
44312	P14079	Q5T5F5	1.1715
44313	P14079	O14683	1.1295
44314	P14079	Q3LI66	1.1715
44315	P14079	Q7Z4B0	1.1715
44316	P14079	Q92539	0.436
44317	P14079	P29692	0.58882
44318	P14079	O15371	0.81333
44319	P14079	Q96N53	1.1715
44320	P14079	Q9NYA3	0.72864
44321	P14079	P0CW20	0.54513
44322	P14079	Q9UN81	1.0571
44323	P14079	Q9HCI5	0.69862
44324	P14079	Q7L8L6	0.72738
44325	P14079	Q9BUZ4	0.27148
44326	P14079	Q13136	0.45245
44327	P14079	O15350	0.31808
44328	P14079	P46782	0.8451
44329	P14079	Q96HQ2	1.6816
44330	P14079	Q8IWN7	0.48356
44331	P14079	Q00839	0.27353
44332	P14079	Q71RC9	1.1823
44333	P14079	Q9BY77	0.34837
44334	P14079	Q5XG99	0.93632
44335	P14079	Q8TB72	0.70579
44336	P14079	P62877	0.52443
44337	P14079	Q6PJG2	0.83796
44338	P14079	Q4J6C6	0.54478
44339	P14079	Q15744	0.27386
44340	P14079	Q3Y452	1.1715
44341	P14079	Q9Y2H0	0.22171
44342	P14079	Q96JX3	0.62386
44343	P14079	Q9BXH1	0.54203
44344	P14079	P23327	1.0913
44345	P14079	Q9NWN3	0.86464
44346	P14079	P09629	0.73332
44347	P14079	O94892	0.5223
44348	P14079	Q9NVF7	1.3798
44349	P14079	P62987	1.0384
44350	P14079	O00501	0.57185
44351	P14079	Q16576	0.25211
44352	P14079	Q15032	0.73413
44353	P14079	B9EJG8	0.91469
44354	P14079	Q9H665	1.1206
44355	P14079	Q96JE7	1.3153
44356	P14079	P07196	0.97456
44357	P14079	Q96JG8	0.043255
44358	P14079	Q6L8Q7	0.49212
44359	P14079	Q9Y4P1	0.8741
44360	P14079	Q719H9	0.55294
44361	P14079	Q8IVV7	0.74153
44362	P14079	Q6ZRT6	1.3222
44363	P14079	Q3SYA9	0.86812
44364	P14079	Q03252	0.51891
44365	P14079	Q9P0V3	0.43707
44366	P14079	Q9UIL8	0.37434
44367	P14079	Q5TAA0	0.14963
44368	P14079	Q99612	0.31129
44369	P14079	P22087	0.66443
44370	P14079	Q9BXS6	1.2375
44371	P14079	P42568	0.90662
44372	P14079	P02533	1.0536
44373	P14079	Q8WXU2	0.85597
44374	P14079	Q9H6V9	1.0786
44375	P14079	Q8TCH9	1.1515
44376	P14079	Q96N16	1.3344
44377	P14079	Q6ZSS7	0.86195
44378	P14079	Q16670	0.53459
44379	P14079	Q8N1F1	1.1715
44380	P14079	Q5T870	1.4015
44381	P14079	O94903	1.0085
44382	P14079	Q5JNZ5	0.79675
44383	P14079	Q9BYD5	0.23156
44384	P14079	Q8WTX7	1.2077

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44386	P14079	Q15072	0.57676
44387	P14079	O60315	0.26707
44388	P14079	Q6N021	0.94383
44389	P14079	Q9BTE7	0.98667
44390	P14079	Q9H1A7	0.23838
44391	P14079	Q8IUR0	1.5031
44392	P14079	Q6XLA1	0.32486
44393	P14079	Q9H5N1	1.0409
44394	P14079	Q15572	1.3255
44395	P14079	O43290	0.89931
44396	P14079	P50552	0.27886
44397	P14079	Q9H3K6	0.98123
44398	P14079	Q96L16	0.13422
44399	P14079	Q8IUG1	1.1644
44400	P14079	Q13077	0.62358
44401	P14079	Q8N6M5	0.78164
44402	P14079	Q9H269	0.59263
44403	P14079	Q5FBB7	1.2398
44404	P14079	Q9HCM9	0.36754
44405	P14079	Q0VGL1	0.4952
44406	P14079	P46939	0.89555
44407	P14079	Q6PIF2	0.37075
44408	P14079	Q9NYU1	0.43806
44409	P14079	P33947	0.66737
44410	P14079	P55197	1.1806
44411	P14079	Q9H410	0.96888
44412	P14079	Q7Z4Y8	0.38719
44413	P14079	Q7LG56	0.12279
44414	P14079	Q9BVJ6	0.91584
44415	P14079	Q9NPD7	1.089
44416	P14079	Q8TAP8	1.0838
44417	P14079	Q9Y4I5	0.69139
44418	P14079	Q9HA90	1.3222
44419	P14079	H0Y7S4	0.37503
44420	P14079	P61604	1.0876
44421	P14079	Q96S65	1.6551
44422	P14079	Q8WU49	1.1715
44423	P14079	Q96GD0	0.13011
44424	P14079	P55212	0.54133
44425	P14079	A6NIN4	1.1715
44426	P14079	Q9BTA0	1.3222
44427	P14079	Q49AA0	0.94973
44428	P14079	Q6PJG6	1.2253
44429	P14079	Q9P2X0	0.50934
44430	P14079	Q8TAP4	0.18002
44431	P14079	Q9BQ50	0.4146
44432	P14079	O60783	1.112
44433	P14079	Q92572	0.63271
44434	P14079	Q9H5X1	0.38202
44435	P14079	O00178	0.83011
44436	P14079	A2RUG3	1.418
44437	P14079	Q96NR7	0.40403
44438	P14079	Q9HA77	1.1015
44439	P14079	P07738	0.89643
44440	P14079	Q96LK0	0.39441
44441	P14079	Q7L266	0.67908
44442	P14079	P36402	0.44564
44443	P14079	Q03938	0.98563
44444	P14079	P06280	0.3167
44445	P14079	Q96MN9	0.72987
44446	P14079	Q8IXR9	0.55044
44447	P14079	Q5VTQ0	0.67352
44448	P14079	Q12873	0.50601
44449	P14079	P40121	0.53166
44450	P14079	Q96FA3	0.8877
44451	P14079	Q03111	1.1707
44452	P14079	Q5TBK1	0.035613
44453	P14079	A1L020	0.28856
44454	P14079	Q8TF32	1.0501
44455	P14079	A6NDY2	0.59627
44456	P14079	Q7Z434	0.41064
44457	P14079	P11308	0.42552
44458	P14079	Q9Y6Z5	1.441
44459	P14079	Q8NB25	0.3504
44460	P14079	Q6ZUT4	1.2318

44461	P14079	Q9BV97	0.67917
44462	P14079	Q8I WV7	0.72796
44463	P14079	Q69YN2	0.64603
44464	P14079	O14513	0.93274
44465	P14079	Q9Y613	0.86683
44466	P14079	Q9HCE5	0.43344
44467	P14079	Q9BSB4	0.68557
44468	P14079	Q9GZS0	0.25984
44469	P14079	Q13144	0.50055
44470	P14079	A1XBS5	0.074633
44471	P14079	Q9H5I1	0.55804
44472	P14079	P09913	0.75749
44473	P14079	P55273	0.2963
44474	P14079	Q86VV8	0.78529
44475	P14079	Q96NS8	0.73949
44476	P14079	Q9NZ52	0.86788
44477	P14079	Q96EF6	0.92113
44478	P14079	Q9UHQ7	1.1915
44479	P14079	B3EWG3	1.3222
44480	P14079	O95059	1.0077
44481	P14079	Q5T753	1.1715
44482	P14079	Q96KP1	0.49194
44483	P14079	Q5SQN1	0.48855
44484	P14079	O95718	0.23819
44485	P14079	P50570	0.36503
44486	P14079	Q14CZ7	0.40762
44487	P14079	Q49AR2	0.98686
44488	P14079	Q9UF72	1.3258
44489	P14079	Q14588	0.77845
44490	P14079	A6NP11	1.0501
44491	P14079	Q8WWY3	0.40412
44492	P14079	Q86WH2	0.47946
44493	P14079	Q9BUA3	1.2541
44494	P14079	P0DMB1	1.3036
44495	P14079	B9ZVM9	1.4988
44496	P14079	Q9NPJ3	0.30142
44497	P14079	Q7L9B9	0.60572
44498	P14079	Q96FV9	0.82757
44499	P14079	O96005	0.98364
44500	P14079	P62241	0.8316
44501	P14079	P83369	0.95787
44502	P14079	Q6MZN7	1.1715
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44505	P14079	P51665	0.78963
44506	P14079	P55822	0.95323
44507	P14079	O14949	0.31603
44508	P14079	Q01201	0.96113
44509	P14079	Q9Y2S6	1.1715
44510	P14079	Q9H6R7	0.48409
44511	P14079	Q9BVV7	0.49594
44512	P14079	Q4G0P3	0.24567
44513	P14079	Q16613	0.44581
44514	P14079	Q14667	0.91315
44515	P14079	Q6UXB3	0.79381
44516	P14079	Q9BXM8	1.1715
44517	P14079	O15037	1.0666
44518	P14079	Q9HB19	0.78288
44519	P14079	Q5TI25	1.9823
44520	P14079	Q99618	1.6305
44521	P14079	Q5TD94	0.76333
44522	P14079	P0CW71	1.1715
44523	P14079	P41236	1.0885
44524	P14079	Q5T681	1.5158
44525	P14079	Q6NW29	0.79179
44526	P14079	Q9NP97	0.97526
44527	P14079	Q15459	0.50818
44528	P14079	Q9BZL4	0.72622
44529	P14079	Q9H6J7	0.91838
44530	P14079	A6NDB9	1.385
44531	P14079	Q8N960	0.32405
44532	P14079	O60477	0.6465
44533	P14079	Q86V71	0.8029
44534	P14079	O00461	1.2045
44535	P14079	Q9UKX7	1.2856
44536	P14079	Q3KNS6	0.53219

44537	P14079	Q5T4H9	1.1715
44538	P14079	Q9BVI4	0.81672
44539	P14079	Q8N2N9	1.0803
44540	P14079	Q8WVY7	0.27553
44541	P14079	O95671	1.0293
44542	P14079	P07195	0.60641
44543	P14079	Q13541	0.91488
44544	P14079	Q9UHB7	1.1536
44545	P14079	O75167	0.47647
44546	P14079	P0C2Y1	0.49952
44547	P14079	Q9NR09	0.37622
44548	P14079	P02686	0.91228
44549	P14079	Q8IYD1	0.18892
44550	P14079	Q9Y592	1.5792
44551	P14079	Q8N5W8	0.98371
44552	P14079	P35611	0.21245
44553	P14079	Q6FI81	0.53098
44554	P14079	P20618	1.2175
44555	P14079	A6PVL3	0.92959
44556	P14079	Q15363	0.17564
44557	P14079	P78344	0.59165
44558	P14079	Q9NTI5	0.94266
44559	P14079	Q8WU43	0.73407
44560	P14079	O00567	0.88056
44561	P14079	P14854	0.42713
44562	P14079	Q15388	0.54628
44563	P14079	Q9NWD9	0.94672
44564	P14079	Q00987	0.29204
44565	P14079	Q6BEB4	0.22313
44566	P14079	P23588	0.42521
44567	P14079	Q9BUP3	0.38528
44568	P14079	Q5SRH9	1.7006
44569	P14079	P45984	0.35311
44570	P14079	P0CF97	1.273
44571	P14079	Q86XI6	0.35396
44572	P14079	P55198	0.9649
44573	P14079	Q8N292	0.95817
44574	P14079	Q9NPR9	1.7731
44575	P14079	Q9H841	1.288
44576	P14079	Q9UKI2	0.47727
44577	P14079	Q92797	0.98743
44578	P14079	Q52LJ0	0.98433
44579	P14079	O75843	0.96568
44580	P14079	Q9Y421	0.70864
44581	P14079	O75069	0.59555
44582	P14079	Q96RY5	1.5217
44583	P14079	Q68DQ2	0.2639
44584	P14079	Q6ZUS5	0.040449
44585	P14079	P0C7W9	0.13295
44586	P14079	Q6ZUG5	0.95453
44587	P14079	O95198	0.83219
44588	P14079	Q2TAK8	0.806
44589	P14079	Q9BSU3	0.45791
44590	P14079	A4D1E1	1.2076
44591	P14079	Q8TBB1	0.513
44592	P14079	P25815	0.62908
44593	P14079	Q2LD37	0.77064
44594	P14079	Q9BVT8	1.7428
44595	P14079	O95394	1.1793
44596	P14079	Q9Y3D3	1.0485
44597	P14079	Q9BUN8	0.57935
44598	P14079	Q96I34	0.28276
44599	P14079	Q96FH0	1.1631
44600	P14079	Q9BZE4	0.29449
44601	P14079	P32969	1.0531
44602	P14079	Q5HYR2	1.6896
44603	P14079	Q6NXR4	0.80597
44604	P14079	Q5I0X4	1.3222
44605	P14079	P0CL83	0.91322
44606	P14079	Q8NHU0	0.62582
44607	P14079	P63104	1.0496
44608	P14079	Q96ND8	1.0454
44609	P14079	Q3B7T1	1.4937
44610	P14079	A8MQ11	0.5869
44611	P14079	Q6NVH7	1.2735
44612	P14079	Q5VYS4	0.48941



44613	P14079	Q9Y3B1	0.36724
44614	P14079	Q9NRF8	0.81536
44615	P14079	P08651	0.53484
44616	P14079	Q2TAY7	0.28036
44617	P14079	Q9NS71	0.86894
44618	P14079	Q6ZNE5	0.5363
44619	P14079	O75558	0.87411
44620	P14079	Q9BV68	0.47474
44621	P14079	Q96RT1	0.41236
44622	P14079	Q9NYF8	1.1071
44623	P14079	P22090	0.55529
44624	P14079	Q9H808	0.67196
44625	P14079	P46100	0.62901
44626	P14079	Q9NVD3	0.11081
44627	P14079	P62306	0.32606
44628	P14079	Q9UJH9	1.1646
44629	P14079	Q15012	1.1547
44630	P14079	Q9H813	1.0447
44631	P14079	Q9NWS9	0.24097
44632	P14079	O00534	0.7489
44633	P14079	Q86U44	0.23701
44634	P14079	Q9Y244	0.84802
44635	P14079	Q6NSW5	1.5252
44636	P14079	Q8N4M7	1.5903
44637	P14079	Q8IZ73	0.51974
44638	P14079	Q9P0M9	1.1844
44639	P14079	Q9ULW8	1.052
44640	P14079	Q9BPW8	1.1413
44641	P14079	O95156	1.1843
44642	P14079	Q96HH6	1.2485
44643	P14079	P0CI00	1.1722
44644	P14079	Q5JPE7	0.72609
44645	P14079	Q5SZL2	0.56972
44646	P14079	Q9BRR0	0.5625
44647	P14079	Q08AG7	1.0522
44648	P14079	P51814	0.45498
44649	P14079	O43776	1.0409
44650	P14079	Q7RTU9	0.52936
44651	P14079	P43243	0.30287
44652	P14079	Q9NVI1	1.1205
44653	P14079	A8MUZ8	1.0642
44654	P14079	A2RU49	0.64761
44655	P14079	Q6ZW35	0.596
44656	P14079	Q15061	0.27853
44657	P14079	Q96EI5	1.1389
44658	P14079	Q9NPF4	0.71304
44659	P14079	Q52M58	1.4283
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44661	P14079	Q15078	0.1434
44662	P14079	A8K010	0.92514
44663	P14079	P28698	0.81871
44664	P14079	Q5JPH6	1.063
44665	P14079	Q9BRJ7	1.3311
44666	P14079	P62829	1.4392
44667	P14079	O94763	1.1768
44668	P14079	Q9NYG5	0.95074
44669	P14079	Q9UJ55	0.30704
44670	P14079	O75396	0.50227
44671	P14079	Q96GU1	0.89414
44672	P14079	Q99614	0.40602
44673	P14079	Q8TF68	0.25526
44674	P14079	Q5T749	1.4932
44675	P14079	Q5VWI1	1.3201
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44677	P14079	Q96GE5	0.95434
44678	P14079	P35813	0.29917
44679	P14079	P28069	0.60944
44680	P14079	O75448	0.72924
44681	P14079	Q9BVL2	0.72857
44682	P14079	Q6ZSJ9	1.0234
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44684	P14079	Q96FJ8	1.1715
44685	P14079	Q96BV0	0.51144
44686	P14079	O75431	0.050619
44687	P14079	P51825	0.9706
44688	P14079	Q9NRR5	0.71397

44689	P14079	P14678	0.84518
44690	P14079	Q8IWZ6	0.19332
44691	P14079	O15061	1.2156
44692	P14079	Q8NDY4	1.1715
44693	P14079	Q9Y2V7	0.20729
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44695	P14079	Q7Z7G8	0.28765
44696	P14079	Q9NNX9	1.5627
44697	P14079	P10911	0.27185
44698	P14079	Q9Y2J8	1.2762
44699	P14079	O60573	0.69872
44700	P14079	Q96MB7	1.1449
44701	P14079	B5ME19	0.50682
44702	P14079	Q8TEW0	0.37859
44703	P14079	O96007	1.4477
44704	P14079	Q12772	0.26867
44705	P14079	Q9NTU4	1.2888
44706	P14079	O75506	0.15891
44707	P14079	O95073	1.0823
44708	P14079	Q9Y6P5	0.90727
44709	P14079	Q17RY6	1.484
44710	P14079	Q9UL58	1.1491
44711	P14079	P60369	1.3698
44712	P14079	A8MX80	1.1299
44713	P14079	Q13769	0.6592
44714	P14079	Q8TAA3	0.91638
44715	P14079	P0C671	0.44627
44716	P14079	O15145	0.4636
44717	P14079	Q9HBL0	0.82262
44718	P14079	Q9UKY1	0.39442
44719	P14079	P31276	0.4231
44720	P14079	Q92990	0.84171
44721	P14079	Q8N815	0.13928
44722	P14079	Q9H0E9	0.11285
44723	P14079	Q5W0B7	1.1542
44724	P14079	P55081	1.1105
44725	P14079	P53673	0.94815
44726	P14079	Q16204	0.32856
44727	P14079	B2RV13	1.2612
44728	P14079	P0CJ90	0.25626
44729	P14079	P33552	0.77421
44730	P14079	Q96PZ0	0.12922
44731	P14079	Q86UB2	1.2809
44732	P14079	Q14061	1.0165
44733	P14079	Q96EL1	1.2694
44734	P14079	Q9H488	0.22705
44735	P14079	Q8IXW5	1.0306
44736	P14079	Q99687	0.59222
44737	P14079	A6NDP7	0.94614
44738	P14079	P0C7X2	1.0371
44739	P14079	O95400	1.1922
44740	P14079	Q8TBR5	0.58032
44741	P14079	Q14149	0.25848
44742	P14079	P62256	0.53416
44743	P14079	P24390	0.9834
44744	P14079	Q8WUX2	0.36883
44745	P14079	P60866	1.0559
44746	P14079	Q5TYX0	0.68944
44747	P14079	Q9BRP1	1.2971
44748	P14079	Q5TA50	0.84036
44749	P14079	Q8N7H1	0.53011
44750	P14079	Q8IYB3	1.2715
44751	P14079	Q12905	0.96198
44752	P14079	P43356	1.031
44753	P14079	Q8TCN5	0.1949
44754	P14079	Q9BUR4	0.88017
44755	P14079	Q3B7I2	0.1824
44756	P14079	C9JFL3	1.1715
44757	P14079	Q8WY22	1.4889
44758	P14079	Q5HY64	0.52163
44759	P14079	Q96JF6	0.52044
44760	P14079	Q9BV19	1.1882
44761	P14079	Q8N0X4	0.54037
44762	P14079	Q96DG6	0.43529
44763	P14079	P43897	1.8224
44764	P14079	Q96RP9	1.0527

44765	P14079	Q9ULD5	0.47863
44766	P14079	O94915	0.26737
44767	P14079	Q9UC07	0.68484
44768	P14079	O75648	1.1759
44769	P14079	Q9ULR0	1.3405
44770	P14079	Q8NBB4	0.60394
44771	P14079	Q6W2J9	0.27232
44772	P14079	Q96HH4	1.3522
44773	P14079	Q9H2G9	0.41667
44774	P14079	P45973	0.99593
44775	P14079	Q6NT76	0.40548
44776	P14079	Q86TC9	0.48381
44777	P14079	Q3SX64	0.09154
44778	P14079	Q9Y3E1	0.37664
44779	P14079	P60370	1.3698
44780	P14079	Q9H9L7	0.58072
44781	P14079	Q6ZVU0	0.55869
44782	P14079	Q3I5F7	0.12114
44783	P14079	A6NHU5	0.85652
44784	P14079	Q9NWK9	1.255
44785	P14079	Q6P1X5	0.98042
44786	P14079	A6NCS6	1.2758
44787	P14079	A8K830	1.1715
44788	P14079	Q12802	0.269
44789	P14079	Q9HD87	0.84093
44790	P14079	Q502X0	0.40977
44791	P14079	Q9NQX5	0.92489
44792	P14079	P19338	0.7119
44793	P14079	Q3SY46	1.2482
44794	P14079	Q96M02	0.53371
44795	P14079	P42226	0.76161
44796	P14079	A6NIE6	0.85556
44797	P14079	Q6X4W1	1.8433
44798	P14079	Q9C075	0.80279
44799	P14079	Q9P1C3	1.1899
44800	P14079	Q06330	0.54534
44801	P14079	O15504	0.59803
44802	P14079	Q9BUH6	1.2831
44803	P14079	Q14695	1.2555
44804	P14079	B4DS77	0.97599
44805	P14079	Q96T59	1.0613
44806	P14079	Q9BR46	1.448
44807	P14079	A4D2B0	1.3155
44808	P14079	Q9UBL0	0.55969
44809	P14079	Q9UIC8	0.50935
44810	P14079	P0C7P2	0.90286
44811	P14079	Q6V9R5	0.987
44812	P14079	Q9UL01	1.0608
44813	P14079	Q6ZVF9	1.2818
44814	P14079	K7EIZ4	1.1715
44815	P14079	Q9ULL5	1.1715
44816	P14079	Q8WU90	0.95226
44817	P14079	P0C7M3	1.0613
44818	P14079	Q69YL0	1.1715
44819	P14079	O00186	0.7869
44820	P14079	Q8WTZ4	0.12175
44821	P14079	Q75323	1.0629
44822	P14079	A8K0R7	1.2883
44823	P14079	P80303	0.19054
44824	P14079	Q96NR2	0.688
44825	P14079	Q9HD26	1.0965
44826	P14079	Q6NZY7	0.53442
44827	P14079	A6NJ78	1.5082
44828	P14079	Q9NWZ8	0.80912
44829	P14079	Q9H1Q7	1.3583
44830	P14079	Q9H8M9	1.169
44831	P14079	Q15149	0.39369
44832	P14079	Q8NHS1	1.0004
44833	P14079	Q8N4L1	1.2485
44834	P14079	Q8N3S3	0.39438
44835	P14079	Q0VDF9	0.34958
44836	P14079	Q9H095	0.7243
44837	P14079	O43427	0.77608
44838	P14079	Q9NRL3	0.60903
44839	P14079	Q6ZS46	1.5495
44840	P14079	Q96IK1	0.38817

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44842	P14079	O15511	0.53121
44843	P14079	P14136	0.94033
44844	P14079	O43148	1.1556
44845	P14079	Q96DE9	0.41522
44846	P14079	Q53FD0	1.5129
44847	P14079	Q8N1G1	0.32911
44848	P14079	Q9BQ61	1.3222
44849	P14079	Q8N3L3	1.2496
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44851	P14079	Q9H9E1	0.36204
44852	P14079	P82094	1.3476
44853	P14079	P45983	0.24729
44854	P14079	Q99741	0.72973
44855	P14079	Q8N0W7	1.0639
44856	P14079	P20674	0.34266
44857	P14079	Q9NUP9	0.49899
44858	P14079	Q9UK73	0.7431
44859	P14079	Q8NAE3	1.1394
44860	P14079	Q9BW61	1.1259
44861	P14079	Q9HB71	0.62657
44862	P14079	P82970	1.0915
44863	P14079	Q9NV12	1.2485
44864	P14079	Q6ICG6	0.83419
44865	P14079	Q3V5L5	0.85429
44866	P14079	Q96KD3	1.8805
44867	P14079	Q8TAW3	0.62703
44868	P14079	Q96NT1	1.3882
44869	P14079	Q92670	0.57881
44870	P14079	P68032	0.99952
44871	P14079	Q8N6I4	1.2485
44872	P14079	Q96PP4	0.92434
44873	P14079	H3BSY2	0.07102
44874	P14079	Q8IXT1	0.77095
44875	P14079	Q9NPC3	0.021896
44876	P14079	O15066	0.33973
44877	P14079	Q8N3U4	0.89599
44878	P14079	Q16629	0.67266
44879	P14079	P50613	0.24652
44880	P14079	Q8IZY5	0.51993
44881	P14079	Q9H6W3	0.7174
44882	P14079	Q5VYP0	1.3668
44883	P14079	Q86UU5	1.2973
44884	P14079	Q9NZC4	0.39793
44885	P14079	Q9H2U2	0.3195
44886	P14079	Q86VX2	1.5462
44887	P14079	Q9Y2T7	0.31313
44888	P14079	A6NN90	0.87359
44889	P14079	Q9H8Y8	0.62123
44890	P14079	Q9H0N5	1.1395
44891	P14079	Q9H981	0.9744
44892	P14079	Q5VUE5	1.2887
44893	P14079	Q99865	1.3384
44894	P14079	Q9H6R4	0.82647
44895	P14079	Q9P2D1	0.15498
44896	P14079	Q5H9J9	1.0898
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44901	P14079	A6NDZ8	0.44102
44902	P14079	Q8TD26	0.10076
44903	P14079	O95721	0.43633
44904	P14079	P62854	1.1257
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44906	P14079	Q6PUV4	0.71466
44907	P14079	Q9NZI7	0.16767
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44909	P14079	Q8WVZ9	0.36435
44910	P14079	P40337	0.88275
44911	P14079	P27544	0.8101
44912	P14079	Q9BTE1	0.31466
44913	P14079	Q08AE8	0.48468
44914	P14079	A1A4G5	1.1715
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44916	P14079	Q3C1V8	0.54

44917	P14079	Q15631	0.92882
44918	P14079	Q9NSG2	1.182
44919	P14079	Q9Y247	0.4291
44920	P14079	Q6ZRR9	0.45757
44921	P14079	A6NDX4	0.92092
44922	P14079	Q9NR50	0.66897
44923	P14079	Q8N7R1	1.0757
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44925	P14079	P56715	0.31796
44926	P14079	Q9Y5Z7	0.62451
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44929	P14079	Q9GZX7	0.32685
44930	P14079	Q8NA57	1.7137
44931	P14079	A6PVC2	0.2361
44932	P14079	Q5JWR5	0.60911
44933	P14079	O43189	0.46078
44934	P14079	Q15651	1.5605
44935	P14079	Q13888	0.59917
44936	P14079	Q8N319	1.9946
44937	P14079	Q96CW6	1.7588
44938	P14079	Q5TCM9	1.1715
44939	P14079	Q9Y5U9	1.376
44940	P14079	Q7Z5M5	0.93546
44941	P14079	Q15929	0.90924
44942	P14079	Q07020	1.2846
44943	P14079	Q86X02	0.50286
44944	P14079	Q9BQE9	1.3407
44945	P14079	P78364	0.18156
44946	P14079	Q9UG56	0.72943
44947	P14079	Q00613	0.82136
44948	P14079	P39019	1.0313
44949	P14079	Q86XN7	1.3222
44950	P14079	Q8N6M0	0.40602
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44952	P14079	Q3LI83	1.4471
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44954	P14079	Q9NZ09	0.33973
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44957	P14079	P78559	1.078
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44959	P14079	Q13084	1.3625
44960	P14079	Q86Y25	0.6138
44961	P14079	Q8IVM0	0.72622
44962	P14079	Q9NQT6	0.071756
44963	P14079	Q8N205	0.90243
44964	P14079	Q14202	1.1727
44965	P14079	Q96LZ2	0.14781
44966	P14079	Q8N357	0.82787
44967	P14079	P18545	0.67049
44968	P14079	Q9NYZ1	1.4268
44969	P14079	A4D997	1.2383
44970	P14079	P17480	1.043
44971	P14079	Q99583	0.40346
44972	P14079	Q8TAB5	1.3222
44973	P14079	Q96KR7	0.9137
44974	P14079	Q9HCM7	1.515
44975	P14079	Q0P6H9	1.0503
44976	P14079	P26599	0.2307
44977	P14079	Q5TFE4	0.34779
44978	P14079	Q6ZN19	0.51784
44979	P14079	Q8IY85	0.33142
44980	P14079	Q8N813	0.62194
44981	P14079	Q9BSQ5	0.78928
44982	P14079	Q15833	0.48634
44983	P14079	Q8IVI9	0.25791
44984	P14079	P36405	0.28417
44985	P14079	Q8TE02	1.4987
44986	P14079	O95571	0.68487
44987	P14079	A6NGA9	1.0004
44988	P14079	Q99543	0.49041
44989	P14079	Q9NSP4	0.54738
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44992	P14079	Q8HWS3	0.51885

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44995	P14079	B4DU55	0.72218
44996	P14079	Q96MW7	0.82405
44997	P14079	O95868	1.2124
44998	P14079	Q9NZL3	0.79328
44999	P14079	Q15054	0.9847
45000	P14079	Q9BTT0	0.23819
45001	P14079	Q8WV60	0.44713
45002	P14079	Q86XI8	1.0472
45003	P14079	Q6ZP68	1.5444
45004	P14079	Q8IYB7	0.14651
45005	P14079	Q9Y3A3	0.71248
45006	P14079	P0C854	1.1715
45007	P14079	Q8TDN4	1.2268
45008	P14079	Q8WY54	0.80255
45009	P14079	P55795	0.24397
45010	P14079	Q9NWS8	0.98358
45011	P14079	Q9UBU6	1.1193
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45013	P14079	Q9BXG8	0.50059
45014	P14079	O75152	0.61803
45015	P14079	Q5VYM1	1.2485
45016	P14079	Q13568	0.79764
45017	P14079	O75940	0.7643
45018	P14079	P59091	1.113
45019	P14079	Q9UJW9	2.1908
45020	P14079	P0CF75	0.67683
45021	P14079	Q9BZE1	1.0353
45022	P14079	P61981	0.68167
45023	P14079	A6NDE8	0.99818
45024	P14079	Q00059	0.85382
45025	P14079	Q7KZ85	0.52203
45026	P14079	Q93045	0.25895
45027	P14079	Q9C0C2	0.63477
45028	P14079	Q92629	0.66506
45029	P14079	P12956	0.33182
45030	P14079	Q8IYN6	1.3798
45031	P14079	O75952	0.64274
45032	P14079	Q9ULZ2	0.95768
45033	P14079	H0YKK7	1.3415
45034	P14079	P61572	1.355
45035	P14079	Q9NWU2	0.12251
45036	P14079	P08758	0.56919
45037	P14079	P61236	0.90931
45038	P14079	Q9H4W6	0.36867
45039	P14079	Q96D05	1.6764
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45041	P14079	Q9BZR8	0.69338
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45043	P14079	O15117	1.2772
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45045	P14079	Q8WUD4	0.8243
45046	P14079	Q9P0W2	0.50933
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45048	P14079	Q9Y3T9	1.2149
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45050	P14079	Q9ULW3	0.72955
45051	P14079	Q6ZVS7	0.47122
45052	P14079	Q96D98	1.4727
45053	P14079	Q93073	1.1565
45054	P14079	Q96MC9	1.8592
45055	P14079	Q9HAW4	0.78774
45056	P14079	Q9Y534	0.40345
45057	P14079	O94805	0.96175
45058	P14079	Q14390	0.20497
45059	P14079	P54368	0.38938
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45061	P14079	Q99661	0.29013
45062	P14079	Q8N9N5	0.96378
45063	P14079	A0PG75	0.20822
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45066	P14079	Q9NQ32	1.2126
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45072	P14079	A0AVF1	0.36572
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45074	P14079	Q9BWJ2	0.7594
45075	P14079	P48230	0.98482
45076	P14079	P61580	1.7166
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45078	P14079	Q3LI61	1.1715
45079	P14079	Q8NCN2	0.31886
45080	P14079	Q96T21	1.0749
45081	P14079	Q96N22	1.0179
45082	P14079	P54826	0.45368
45083	P14079	Q8N6F1	0.22769
45084	P14079	Q9BUN5	0.69047
45085	P14079	Q9BQW3	0.29586
45086	P14079	A7E2U8	0.76175
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45093	P14079	Q8IV03	1.709
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45095	P14079	P41182	0.23898
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45097	P14079	P31274	0.75378
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45099	P14079	P78385	0.98262
45100	P14079	Q5BJF6	0.79943
45101	P14079	Q7Z6E9	0.19372
45102	P14079	Q86UE3	0.76643
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45107	P14079	O00566	1.1497
45108	P14079	Q8NAP3	0.41224
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45116	P14079	Q8N609	0.7313
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45118	P14079	O60239	0.4009
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45127	P14079	Q96GA3	1.2663
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45136	P14079	Q15814	0.54636
45137	P14079	Q6ZUA9	1.3848
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45147	P14079	A5PLN9	1.101
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45150	P14079	Q8WUM0	0.76637
45151	P14079	Q6MZP7	0.72859
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45155	P14079	Q9H790	0.73546
45156	P14079	Q96AE4	0.45339
45157	P14079	Q14549	0.30496
45158	P14079	O75791	1.0679
45159	P14079	Q86V59	1.0304
45160	P14079	Q9NRF9	0.53556
45161	P14079	Q13642	0.27178
45162	P14079	Q96GC9	0.81438
45163	P14079	Q96Q35	0.86213
45164	P14079	Q9BSH3	0.55309
45165	P14079	Q8NCG7	1.293
45166	P14079	Q96BR5	0.36349
45167	P14079	A6NMV5	0.28074
45168	P14079	Q3ZCT1	0.6038
45169	P14079	Q8IUX1	0.80739
45170	P14079	Q9BXM0	0.63894
45171	P14079	Q7RTV5	0.050638
45172	P14079	P17097	0.43535
45173	P14079	Q8N5U6	1.0923
45174	P14079	Q7Z7J9	0.90726
45175	P14079	Q6ZU35	1.3222
45176	P14079	Q2M385	0.81442
45177	P14079	Q14656	0.15543
45178	P14079	P54803	0.58834
45179	P14079	Q7RTS6	0.94685
45180	P14079	Q86UP8	0.3466
45181	P14079	Q5TAX3	0.73893
45182	P14079	Q17RC7	1.0395
45183	P14079	Q96LL3	1.1127
45184	P14079	A6NJ88	1.4096
45185	P14079	Q0P6D6	0.48323
45186	P14079	P49207	1.4205
45187	P14079	Q9P1U0	0.19978
45188	P14079	Q15906	0.95509
45189	P14079	Q16586	0.55426
45190	P14079	A6NEV1	1.2542
45191	P14079	Q9BV29	0.67808
45192	P14079	Q13185	0.77531
45193	P14079	Q8NC60	0.098938
45194	P14079	Q9Y5K5	0.27156
45195	P14079	Q99496	0.29928
45196	P14079	Q96BU1	0.9129
45197	P14079	Q6VMQ6	1.6647
45198	P14079	P19388	0.81968
45199	P14079	P58317	0.62405
45200	P14079	Q5VWX1	0.66843
45201	P14079	Q96EG3	0.4409
45202	P14079	P38117	0.70226
45203	P14079	Q96NJ1	1.1715
45204	P14079	Q495Y7	0.36123
45205	P14079	P22103	1.1715
45206	P14079	P13645	0.97141
45207	P14079	O95926	0.19344
45208	P14079	Q9NSQ0	0.66878
45209	P14079	Q8WYQ9	0.55015
45210	P14079	P49756	0.45254
45211	P14079	Q96L21	0.72151
45212	P14079	P49589	0.99558
45213	P14079	P62244	1.2179
45214	P14079	Q9UBC3	0.31539
45215	P14079	P51668	0.502
45216	P14079	Q9Y3T6	0.92801
45217	P14079	A6NDD8	1.2315
45218	P14079	A6NK75	0.75103
45219	P14079	P14635	0.49197
45220	P14079	Q8NHZ8	1.5354



45221	P14079	Q14749	0.59156
45222	P14079	Q8N614	1.131
45223	P14079	Q9P2F9	0.46223
45224	P14079	Q00403	1.1581
45225	P14079	Q9UMS4	0.49925
45226	P14079	Q7Z3Y9	0.99997
45227	P14079	A6NLI3	0.34873
45228	P14079	Q3C1V1	1.3222
45229	P14079	Q68DN1	1.1943
45230	P14079	Q03936	0.98917
45231	P14079	O96011	0.51649
45232	P14079	Q8ND61	1.5489
45233	P14079	Q8N8Q3	0.20702
45234	P14079	Q14315	0.54236
45235	P14079	Q9BZE3	0.47376
45236	P14079	Q14692	0.77951
45237	P14079	Q9Y287	0.87366
45238	P14079	Q9H7Z3	0.62919
45239	P14079	Q9UK39	0.54004
45240	P14079	Q9H2C0	0.64711
45241	P14079	Q8NHG7	1.375
45242	P14079	P82921	1.2984
45243	P14079	Q9HC62	0.469
45244	P14079	Q147U1	0.61199
45245	P14079	I3L3R5	1.1715
45246	P14079	Q9UPM9	0.19246
45247	P14079	Q86YW9	0.39009
45248	P14079	Q6A162	0.78763
45249	P14079	Q08ER8	0.72218
45250	P14079	Q13875	0.97863
45251	P14079	P60520	0.37067
45252	P14079	P51955	0.24531
45253	P14079	Q6P2H8	1.3091
45254	P14079	P35754	0.23843
45255	P14079	Q8NBR0	1.4416
45256	P14079	Q9UMS0	1.1857
45257	P14079	O15172	0.65795
45258	P14079	Q13356	0.17368
45259	P14079	O95782	0.65716
45260	P14079	O75943	0.2888
45261	P14079	Q9H7N4	1.5448
45262	P14079	Q86WU2	0.087118
45263	P14079	A6NCI5	1.2481
45264	P14079	Q14657	1.8479
45265	P14079	O00257	0.8391
45266	P14079	Q7L0L9	1.1715
45267	P14079	O75586	0.71708
45268	P14079	Q9H7D7	0.42364
45269	P14079	P15516	0.87818
45270	P14079	Q8TA86	1.291
45271	P14079	O75690	1.1715
45272	P14079	Q9NNW7	0.24978
45273	P14079	Q14790	0.35647
45274	P14079	Q99689	0.62791
45275	P14079	Q9NPB0	1.2018
45276	P14079	Q2M243	0.31618
45277	P14079	A6NGH7	0.80962
45278	P14079	Q5T215	0.71032
45279	P14079	O95379	0.64942
45280	P14079	Q14781	0.80275
45281	P14079	P12270	0.70631
45282	P14079	P55209	0.66293
45283	P14079	Q9H6U6	0.94819
45284	P14079	Q9BZ23	1.1264
45285	P14079	Q9NX40	0.68136
45286	P14079	Q9UNN5	0.84116
45287	P14079	Q9UJ98	0.74687
45288	P14079	O94925	0.45483
45289	P14079	Q9UK58	0.35751
45290	P14079	Q14353	0.22335
45291	P14079	Q8NHV4	1.0586
45292	P14079	Q8N661	1.3556
45293	P14079	Q53GS7	1.1123
45294	P14079	Q14DG7	1.1754
45295	P14079	Q5BJE1	0.86779
45296	P14079	Q9BX82	0.97753

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45298	P14079	O75145	0.60174
45299	P14079	P45877	0.18124
45300	P14079	Q8NBJ4	1.0755
45301	P14079	A6NES4	0.95229
45302	P14079	Q9NXT0	0.55972
45303	P14079	Q01860	0.5811
45304	P14079	O95685	0.60785
45305	P14079	O14929	1.0578
45306	P14079	O00512	1.023
45307	P14079	Q8N1N4	0.98699
45308	P14079	Q9H2D6	0.2848
45309	P14079	O75530	0.57509
45310	P14079	Q9Y6C7	1.1715
45311	P14079	Q9H0A3	0.82534
45312	P14079	Q9BSY4	0.95493
45313	P14079	Q9UND3	0.67903
45314	P14079	P63302	1.0039
45315	P14079	Q9H6T0	0.55969
45316	P14079	P30154	0.53791
45317	P14079	Q04760	0.27522
45318	P14079	A7MD48	1.2814
45319	P14079	Q15046	1.3379
45320	P14079	Q9Y2Y6	1.3455
45321	P14079	Q8WTW3	1.4067
45322	P14079	Q8TF39	1.0323
45323	P14079	Q53FT3	1.0059
45324	P14079	Q9BVK8	1.1904
45325	P14079	Q96HA7	0.8125
45326	P14079	O75373	0.69686
45327	P14079	Q9Y3Z3	0.24133
45328	P14079	Q2M3A8	0.71184
45329	P14079	Q6P575	0.56923
45330	P14079	Q15543	1.0149
45331	P14079	Q86UW1	1.1986
45332	P14079	Q9H943	0.55564
45333	P14079	Q6ZYL4	1.5087
45334	P14079	Q66PJ3	1.065
45335	P14079	Q5T036	0.96534
45336	P14079	P28062	0.71967
45337	P14079	O75764	0.28681
45338	P14079	P30408	1.0411
45339	P14079	A8MU10	1.1715
45340	P14079	Q8IZM0	0.968
45341	P14079	Q5VTD9	0.28561
45342	P14079	A6NLF2	0.80003
45343	P14079	A6NI87	1.1145
45344	P14079	P57055	1.08
45345	P14079	Q8N0Z8	1.106
45346	P14079	Q7L8W6	1.1185
45347	P14079	P60900	0.7803
45348	P14079	Q9NP64	0.42003
45349	P14079	Q8NFW9	0.37464
45350	P14079	Q96HD9	0.62934
45351	P14079	P19532	0.68988
45352	P14079	Q9Y5X2	0.28587
45353	P14079	Q13066	0.99818
45354	P14079	P82650	0.65514
45355	P14079	Q69384	1.0384
45356	P14079	B1APH4	0.85237
45357	P14079	Q05481	0.78684
45358	P14079	Q14145	1.2409
45359	P14079	Q15345	0.34598
45360	P14079	A6NGB7	1.2485
45361	P14079	Q8N114	1.132
45362	P14079	Q9UBI9	1.3392
45363	P14079	P42167	0.83206
45364	P14079	Q9H425	1.2653
45365	P14079	A5D8V7	0.11596
45366	P14079	Q5RGS2	1.6988
45367	P14079	Q9P2D6	0.45631
45368	P14079	Q9ULX3	1.1096
45369	P14079	Q5JTV8	0.68961
45370	P14079	Q9BXY0	0.33547
45371	P14079	Q9BYA6	1.1715
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45373	P14079	P17026	0.47783
45374	P14079	Q7Z3Y8	0.88619
45375	P14079	Q8IX03	0.9903
45376	P14079	Q9BU89	0.62336
45377	P14079	Q96BD5	0.66508
45378	P14079	Q00519	0.9038
45379	P14079	P16989	0.18479
45380	P14079	Q8NC51	1.0584
45381	P14079	Q9Y238	0.68281
45382	P14079	A8MTY7	1.3698
45383	P14079	Q02040	1.2762
45384	P14079	Q56P42	0.28036
45385	P14079	Q9UIH9	0.45238
45386	P14079	Q00005	0.84748
45387	P14079	A6NN14	0.78684
45388	P14079	Q9Y6U3	0.27235
45389	P14079	P12980	0.9272
45390	P14079	Q9BXF6	0.80664
45391	P14079	Q9UPN9	0.44425
45392	P14079	Q9UPZ3	0.99242
45393	P14079	Q9H0W9	0.71518
45394	P14079	Q9HCE3	0.1949
45395	P14079	Q9NP74	0.35849
45396	P14079	P11161	0.49685
45397	P14079	P09001	1.1324
45398	P14079	Q5T6V5	1.0403
45399	P14079	Q9BVG4	0.82295
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45401	P14079	P22392	0.16005
45402	P14079	Q0VDD7	2.2404
45403	P14079	O00482	0.33627
45404	P14079	Q9Y2S7	1.4739
45405	P14079	Q6ICL7	0.80869
45406	P14079	Q08AG5	1.1741
45407	P14079	Q8N5Y2	0.24586
45408	P14079	P0CW21	1.1715
45409	P14079	Q96LP2	0.38694
45410	P14079	Q96A35	1.1692
45411	P14079	Q9H9T3	0.58525
45412	P14079	Q2M3G4	0.27638
45413	P14079	O75425	0.98175
45414	P14079	Q96BY2	0.70274
45415	P14079	Q8N4C6	0.97685
45416	P14079	Q9UJW3	0.65947
45417	P14079	Q9BQ89	1.8375
45418	P14079	Q8NF64	1.2388
45419	P14079	Q969L2	0.57199
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45421	P14079	Q9NWF9	0.78835
45422	P14079	Q96T51	0.35609
45423	P14079	Q9NX05	0.98744
45424	P14079	P24534	0.78141
45425	P14079	A1L3X4	1.1715
45426	P14079	Q9GZU3	1.6442
45427	P14079	P20930	0.37813
45428	P14079	Q86U90	1.3652
45429	P14079	Q99732	0.89019
45430	P14079	H3BR10	1.1715
45431	P14079	Q32M88	0.56045
45432	P14079	Q9NV56	1.3349
45433	P14079	Q96C34	1.2557
45434	P14079	A6NGS2	1.238
45435	P14079	Q16644	0.25069
45436	P14079	O94829	1.2132
45437	P14079	Q6N075	1.0464
45438	P14079	Q86UC2	1.077
45439	P14079	A6NCC3	0.85082
45440	P14079	Q13956	0.93145
45441	P14079	Q9H761	0.82736
45442	P14079	Q96K75	0.56807
45443	P14079	Q6ZU67	0.82529
45444	P14079	O60318	0.88482
45445	P14079	Q9H6Q4	0.6494
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45450	P14079	P62263	0.76983
45451	P14079	Q8N972	0.77845
45452	P14079	Q9UKV3	0.69341
45453	P14079	Q9Y3C1	0.24848
45454	P14079	Q969R5	0.53184
45455	P14079	Q12962	1.2315
45456	P14079	Q8N5R6	0.9716
45457	P14079	Q9NZQ3	0.92902
45458	P14079	Q9H963	0.81093
45459	P14079	Q6DD87	0.50185
45460	P14079	Q9UER7	1.3594
45461	P14079	Q8ND90	0.813
45462	P14079	Q02543	0.96995
45463	P14079	Q3SY05	0.4211
45464	P14079	Q6ZVH6	0.45051
45465	P14079	P19474	0.27566
45466	P14079	O95521	1.0333
45467	P14079	Q9ULH7	0.79925
45468	P14079	P62424	1.3062
45469	P14079	Q9Y4M8	0.48845
45470	P14079	P60331	1.3698
45471	P14079	Q6UXU6	1.8529
45472	P14079	P55265	0.43572
45473	P14079	Q16719	0.34392
45474	P14079	Q92901	0.86734
45475	P14079	Q8TAC9	1.0112
45476	P14079	P36639	0.37336
45477	P14079	A6NGB9	0.6828
45478	P14079	P17544	1.1167
45479	P14079	Q9Y6Z4	0.7477
45480	P14079	Q9NPF5	1.0618
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45482	P14079	Q8WYP5	0.67014
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45484	P14079	Q6UWN0	0.78423
45485	P14079	Q9BV81	1.1389
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45488	P14079	P62277	1.2662
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45490	P14079	Q9NX09	0.55018
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45492	P14079	Q96AQ7	0.91714
45493	P14079	Q9UH90	0.11619
45494	P14079	Q17RH7	1.1715
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45497	P14079	Q9HCJ0	0.68872
45498	P14079	Q92769	0.43128
45499	P14079	A8MQB3	0.73576
45500	P14079	Q86T23	0.18173
45501	P14079	P31040	0.49604
45502	P14079	Q9UBD5	0.8681
45503	P14079	Q8IUH2	0.9891
45504	P14079	Q9UK28	1.2329
45505	P14079	Q9BXR0	1.7865
45506	P14079	O43681	0.43543
45507	P14079	Q96T17	1.0096
45508	P14079	Q96LK8	0.75056
45509	P14079	P56277	1.47
45510	P14079	Q8IZS5	1.2271
45511	P14079	Q96HJ5	0.59183
45512	P14079	Q9BXX3	0.24143
45513	P14079	Q8N2B8	0.99123
45514	P14079	Q9UL45	0.2088
45515	P14079	Q8N9W8	1.8805
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45517	P14079	Q2M3R5	1.2951
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45525	P14079	Q9P2Z0	1.0623
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45537	P14079	O95347	0.34394
45538	P14079	Q969E2	0.96757
45539	P14079	Q9BW66	1.3996
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45541	P14079	Q5SXM1	0.74708
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45543	P14079	Q96EN9	1.3553
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45549	P14079	P23528	0.65212
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45553	P14079	Q9UL15	0.29243
45554	P14079	Q86VP3	0.95374
45555	P14079	P53674	0.49183
45556	P14079	P11940	0.2929
45557	P14079	Q92934	0.17174
45558	P14079	Q3SY89	0.56053
45559	P14079	P29374	0.25779
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45561	P14079	Q9BZQ4	0.48014
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45565	P14079	O75200	0.81659
45566	P14079	Q8IZU3	0.29489
45567	P14079	P0CAT3	0.23996
45568	P14079	O96018	0.63426
45569	P14079	A6NMN3	1.2214
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45578	P14079	Q9UBB6	1.0186
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45581	P14079	Q96EX1	0.79946
45582	P14079	P29966	1.7407
45583	P14079	Q5T6C5	1.0973
45584	P14079	Q9BY32	0.9955
45585	P14079	Q6P2I7	0.67609
45586	P14079	Q8NCU7	1.6087
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45588	P14079	Q9H8W3	1.2295
45589	P14079	P62910	0.90311
45590	P14079	Q86TS9	0.85626
45591	P14079	Q538Z0	1.1715
45592	P14079	O95522	0.15504
45593	P14079	Q8IV53	0.15996
45594	P14079	Q9UBB4	1.407
45595	P14079	Q6XQN6	0.47877
45596	P14079	Q15121	0.71584
45597	P14079	Q8N201	0.87137
45598	P14079	Q96EK5	0.63167
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45606	P14079	Q63ZY6	0.33428
45607	P14079	Q6ZQT7	1.1715
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45610	P14079	Q9BQA1	1.0204
45611	P14079	Q9P299	0.43366
45612	P14079	Q8IV36	0.72395
45613	P14079	O43676	1.0337
45614	P14079	Q9NX00	0.72411
45615	P14079	P63173	1.1886
45616	P14079	Q4G163	0.16561
45617	P14079	Q8NBT0	0.27372
45618	P14079	Q5VTR2	0.37549
45619	P14079	Q86XJ0	0.80503
45620	P14079	Q9UPP1	0.37708
45621	P14079	Q86XW9	0.36002
45622	P14079	Q5SQS8	1.188
45623	P14079	O94818	1.6655
45624	P14079	P07197	1.248
45625	P14079	Q9Y4Z0	0.76478
45626	P14079	P17032	0.57645
45627	P14079	Q9H6D3	0.95618
45628	P14079	B7ZBB8	0.4603
45629	P14079	P26196	0.55329
45630	P14079	Q8IZQ5	0.78892
45631	P14079	Q5TID7	1.0479
45632	P14079	A6NFT4	0.76001
45633	P14079	P31946	0.59287
45634	P14079	Q9BQY9	0.6537
45635	P14079	Q7RTS1	0.27975
45636	P14079	O75787	0.69314
45637	P14079	Q8N6T7	0.74001
45638	P14079	O60248	0.59198
45639	P14079	Q12912	1.4366
45640	P14079	Q8NI35	0.46824
45641	P14079	Q9Y5P3	0.85942
45642	P14079	Q86WV6	0.088286
45643	P14079	Q9BUI4	0.35187
45644	P14079	O95989	0.72871
45645	P14079	Q86T03	1.6002
45646	P14079	Q5JY77	1.1759
45647	P14079	Q02930	0.91651
45648	P14079	Q08379	0.57496
45649	P14079	Q6ZSN1	0.98894
45650	P14079	Q8NFX5	1.0315
45651	P14079	Q9H1I8	0.86323
45652	P14079	Q5VTA0	0.88502
45653	P14079	Q8TEK3	0.65182
45654	P14079	Q2KHM9	0.91677
45655	P14079	Q8WUM4	1.4497
45656	P14079	Q9NQ33	0.49163
45657	P14079	Q53FP2	1.0739
45658	P14079	Q99708	0.84588
45659	P14079	Q969U7	0.85985
45660	P14079	O95567	1.1715
45661	P14079	O95049	0.71329
45662	P14079	O75949	1.2485
45663	P14079	O00264	0.14082
45664	P14079	Q5VXU3	0.84086
45665	P14079	Q9H2G4	0.59002
45666	P14079	P43363	0.10847
45667	P14079	Q6ZP80	1.2485
45668	P14079	O95397	1.5333
45669	P14079	Q9Y6X1	0.77793
45670	P14079	A4D250	0.62096
45671	P14079	Q6P4D5	1.4309
45672	P14079	O75409	1.0453
45673	P14079	Q14093	1.0715
45674	P14079	P49458	1.3997
45675	P14079	Q8WVC0	0.92483
45676	P14079	Q9NWT6	0.32871

45677	P14079	P55210	0.24934
45678	P14079	P0C5W0	0.63681
45679	P14079	Q8N823	0.77845
45680	P14079	Q9BQ49	1.2485
45681	P14079	P03973	0.3624
45682	P14079	Q8ND04	1.0448
45683	P14079	P49715	0.23854
45684	P14079	Q8NFX4	1.1715
45685	P14079	P69849	1.0231
45686	P14079	Q96PY0	0.94038
45687	P14079	E0CX11	1.1715
45688	P14079	Q6DKI1	0.23329
45689	P14079	Q96G23	0.13657
45690	P14079	Q8N8J6	0.44884
45691	P14079	Q9BWW4	1.3763
45692	P14079	Q9BQ67	0.42364
45693	P14079	Q96GC5	1.0375
45694	P14079	O75334	0.71038
45695	P14079	O60663	0.46789
45696	P14079	Q9NW97	1.2485
45697	P14079	O14709	0.77845
45698	P14079	Q9BSH5	0.51284
45699	P14079	Q9BZ97	1.1715
45700	P14079	Q8NFX8	0.65078
45701	P14079	O94772	0.35716
45702	P14079	O15266	0.38579
45703	P14079	Q8N6Y0	0.85637
45704	P14079	Q8IYQ7	0.28389
45705	P14079	Q5DJT8	0.62582
45706	P14079	Q14934	0.36514
45707	P14079	Q96QA5	0.71705
45708	P14079	Q96RN5	1.2947
45709	P14079	A1L188	1.3165
45710	P14079	Q5TA81	1.1715
45711	P14079	Q8IUC1	0.72906
45712	P14079	Q9NR11	0.50553
45713	P14079	A8MT66	0.14551
45714	P14079	P23508	0.61978
45715	P14079	Q0VG06	0.97034
45716	P14079	Q15102	0.1791
45717	P14079	Q9BXY8	1.2199
45718	P14079	O60610	0.25774
45719	P14079	O14603	0.50091
45720	P14079	Q07666	0.45448
45721	P14079	O14530	0.31165
45722	P14079	P05423	0.58691
45723	P14079	Q8WXC7	0.9837
45724	P14079	Q9BPZ3	0.85879
45725	P14079	Q5MJ08	0.73098
45726	P14079	Q9UI46	0.27197
45727	P14079	B2RXF0	0.72996
45728	P14079	Q9NZI6	0.44289
45729	P14079	A6NFQ7	0.28169
45730	P14079	Q5JWF8	0.75964
45731	P14079	O43678	1.1063
45732	P14079	P56182	1.3247
45733	P14079	Q96S55	0.70711
45734	P14079	P28289	0.35676
45735	P14079	Q6U7Q0	0.54351
45736	P14079	Q6ZRZ4	1.4968
45737	P14079	Q9BVW6	1.1715
45738	P14079	Q05BV3	0.25965
45739	P14079	Q7L3V2	0.0063456
45740	P14079	Q9BYI3	1.4237
45741	P14079	Q6IB77	0.48859
45742	P14079	P61573	1.355
45743	P14079	Q05519	1.1047
45744	P14079	P60372	1.3698
45745	P14079	Q92764	0.78763
45746	P14079	O75340	0.45542
45747	P14079	Q8N4U5	0.46663
45748	P14079	Q5RKV6	0.20073
45749	P14079	Q92560	0.083849
45750	P14079	P38936	0.36882
45751	P14079	P22914	0.55859
45752	P14079	A8MVM7	1.1715

45753	P14079	Q5GH73	0.88059
45754	P14079	P41252	0.99288
45755	P14079	Q15759	0.23499
45756	P14079	P55808	1.5495
45757	P14079	Q9H1E3	1.6422
45758	P14079	A6NL88	0.85881
45759	P14079	O15205	0.49629
45760	P14079	Q96MH7	0.39154
45761	P14079	Q8N680	0.1949
45762	P14079	Q99426	0.2821
45763	P14079	Q6ZQQ2	1.1718
45764	P14079	Q8WTZ3	0.97414
45765	P14079	O60282	0.35541
45766	P14079	Q53SF7	0.44726
45767	P14079	Q9UM13	0.94638
45768	P14079	Q9H8M1	0.75511
45769	P14079	Q15599	0.5811
45770	P14079	O14832	0.80945
45771	P14079	O60384	1.1388
45772	P14079	Q8NC54	1.7237
45773	P14079	Q0VDG4	0.76695
45774	P14079	P46776	1.2548
45775	P14079	Q8NCR3	0.47989
45776	P14079	Q7Z3Y7	0.77408
45777	P14079	Q9Y6K9	1.2353
45778	P14079	Q6P280	1.0605
45779	P14079	Q5PRF9	0.8663
45780	P14079	Q68EA5	1.0057
45781	P14079	O43345	0.76639
45782	P14079	Q15075	0.2045
45783	P14079	P0C881	0.12268
45784	P14079	Q8N7X2	1.1715
45785	P14079	P08238	0.37052
45786	P14079	Q9BRT3	0.50482
45787	P14079	Q7RTV0	0.38484
45788	P14079	Q641Q2	1.4354
45789	P14079	Q7Z5L9	1.4672
45790	P14079	Q9Y473	0.58331
45791	P14079	Q15726	0.5041
45792	P14079	Q5JSH3	0.29068
45793	P14079	Q9Y6D0	1.0631
45794	P14079	Q9GZN7	1.1722
45795	P14079	Q9BYD3	1.3663
45796	P14079	O60809	1.2246
45797	P14079	Q5T3Y7	0.5671
45798	P14079	Q9HD36	0.55738
45799	P14079	Q7Z4L9	0.28346
45800	P14079	O75477	1.0949
45801	P14079	Q9NUL3	0.80622
45802	P14079	P84101	1.8065
45803	P14079	Q8IWC1	0.79085
45804	P14079	Q9BRP8	1.5411
45805	P14079	Q9Y6K5	0.49461
45806	P14079	Q9H511	0.26737
45807	P14079	Q96RT8	0.73313
45808	P14079	Q6NS38	0.8108
45809	P14079	P09525	0.40375
45810	P14079	P61158	0.028439
45811	P14079	Q68CZ2	0.64219
45812	P14079	Q9BQI5	0.66039
45813	P14079	P0C7U9	1.0613
45814	P14079	O75469	0.28991
45815	P14079	Q6ZRV2	1.5118
45816	P14079	Q969F1	1.1362
45817	P14079	Q9Y6D6	0.76772
45818	P14079	Q9H8G2	1.3459
45819	P14079	Q969M7	0.35218
45820	P14079	Q9NQZ2	0.48602
45821	P14079	Q6ZRX8	0.11952
45822	P14079	P17017	0.52589
45823	P14079	Q9NY12	0.79306
45824	P14079	Q7Z392	0.85098
45825	P14079	P17987	0.27692
45826	P14079	Q9NPG3	1.1001
45827	P14079	O60829	1.3718
45828	P14079	P31269	0.4413



45829	P14079	Q9BRR8	1.3746
45830	P14079	Q99933	0.92972
45831	P14079	O95996	0.45858
45832	P14079	Q92832	0.25766
45833	P14079	Q13278	1.3096
45834	P14079	Q96F86	0.74381
45835	P14079	O60502	0.32385
45836	P14079	P08107	0.4926
45837	P14079	P0CG40	0.10657
45838	P14079	Q12798	0.94464
45839	P14079	P24863	1.257
45840	P14079	Q3KRA9	0.89437
45841	P14079	A5A3E0	0.96316
45842	P14079	Q9BYT9	1.1778
45843	P14079	P25791	0.60085
45844	P14079	P82912	1.1271
45845	P14079	P08621	0.44427
45846	P14079	Q5T9C2	1.3222
45847	P14079	Q96SN7	0.50831
45848	P14079	P45985	0.31811
45849	P14079	I6L899	0.28471
45850	P14079	Q9HAB3	1.2062
45851	P14079	P08397	0.50902
45852	P14079	O76021	0.71123
45853	P14079	P49848	0.70597
45854	P14079	Q9UI26	0.5192
45855	P14079	Q13042	1.5935
45856	P14079	Q9UBI1	0.56221
45857	P14079	Q99567	0.7654
45858	P14079	Q13057	0.77511
45859	P14079	P48681	0.13875
45860	P14079	P51508	0.58948
45861	P14079	A8MZG2	1.3222
45862	P14079	Q6NVV7	0.85905
45863	P14079	Q5T1C6	1.2284
45864	P14079	Q9H2H8	0.21079
45865	P14079	Q5H9M0	1.4965
45866	P14079	O00139	0.5218
45867	P14079	Q16587	0.5585
45868	P14079	Q9H1B7	1.4672
45869	P14079	Q15773	1.5911
45870	P14079	Q6UWF9	1.2175
45871	P14079	P0CJ69	1.3031
45872	P14079	Q6UXQ4	1.1715
45873	P14079	Q9NZ72	0.40316
45874	P14079	O15049	1.0342
45875	P14079	O43765	0.85034
45876	P14079	Q96GT9	1.3702
45877	P14079	Q5HYL7	1.0613
45878	P14079	P0C7X5	0.64981
45879	P14079	Q8WWM1	1.45
45880	P14079	P61571	1.1454
45881	P14079	Q9NVZ3	0.88008
45882	P14079	Q4VXA5	0.99171
45883	P14079	Q8NC56	0.78731
45884	P14079	A6NDK9	0.49605
45885	P14079	Q6P050	1.3018
45886	P14079	Q92945	0.63893
45887	P14079	Q9NRY5	1.8974
45888	P14079	P35321	1.0119
45889	P14079	Q9NWX8	1.0675
45890	P14079	Q2VPK5	0.95238
45891	P14079	O75820	0.52589
45892	P14079	Q6ZS27	0.51682
45893	P14079	O14558	0.87489
45894	P14079	Q2M1K9	0.32182
45895	P14079	Q96A00	1.0405
45896	P14079	Q8N684	0.562
45897	P14079	Q15555	0.30864
45898	P14079	Q9UNM6	0.70091
45899	P14079	Q9UQ35	1.1966
45900	P14079	O15160	0.31145
45901	P14079	A6NHX0	1.4681
45902	P14079	Q9NQ76	0.67406
45903	P14079	Q13867	0.46971
45904	P14079	Q8N6M9	0.27176

45905	P14079	A2RU37	0.81816
45906	P14079	O95243	0.81026
45907	P14079	P16333	0.65633
45908	P14079	P58557	1.6877
45909	P14079	P51970	0.13406
45910	P14079	P56282	0.60822
45911	P14079	Q8NE71	0.46893
45912	P14079	O14734	0.81677
45913	P14079	Q15058	0.60399
45914	P14079	Q9BYG4	0.84627
45915	P14079	Q4ADV7	0.8519
45916	P14079	Q9Y3B6	1.4159
45917	P14079	O60256	0.37508
45918	P14079	Q9NY33	0.59952
45919	P14079	Q96JM7	0.26348
45920	P14079	P27540	0.35056
45921	P14079	Q9BQG0	0.44584
45922	P14079	Q8TCI5	0.60789
45923	P14079	P61960	1.0085
45924	P14079	A6NHQ4	1.4327
45925	P14079	C9JN71	0.69781
45926	P14079	Q8IVN3	1.4296
45927	P14079	P0CG12	1.936
45928	P14079	Q96J86	1.2485
45929	P14079	Q9H4Z2	0.77928
45930	P14079	P13640	0.90692
45931	P14079	A8MVW0	1.245
45932	P14079	Q9NZM4	1.8643
45933	P14079	Q9NUC0	0.80312
45934	P14079	Q8TAY7	2.1949
45935	P14079	Q6ZUV0	0.47365
45936	P14079	O95866	1.3136
45937	P14079	Q96GX9	0.43987
45938	P14079	Q6IAA8	0.38754
45939	P14079	Q86X24	0.48081
45940	P14079	Q8N1P7	0.56124
45941	P14079	Q96DE5	1.6566
45942	P14079	P52435	0.71425
45943	P14079	Q93034	0.83601
45944	P14079	P08708	0.62102
45945	P14079	Q6ZNB6	0.68329
45946	P14079	Q9Y263	0.28589
45947	P14079	Q3B726	0.38785
45948	P14079	Q702N8	0.73043
45949	P14079	Q6NXS1	1.3737
45950	P14079	Q9UIF9	0.67475
45951	P14079	Q8IVT2	1.3499
45952	P14079	Q96JZ2	0.45652
45953	P14079	P63272	1.0579
45954	P14079	O75525	0.6624
45955	P14079	Q6UWT2	0.98371
45956	P14079	O75534	0.56195
45957	P14079	Q400G9	1.0217
45958	P14079	Q9BXF3	0.81098
45959	P14079	Q8WUX9	0.59817
45960	P14079	Q9H0H9	0.15091
45961	P14079	O95178	1.1931
45962	P14079	Q8N1V8	0.76662
45963	P14079	Q5BKY6	1.1715
45964	P14079	Q12830	0.8409
45965	P14079	P63267	0.99952
45966	P14079	Q66K89	0.70835
45967	P14079	P41002	1.0512
45968	P14079	Q6A163	0.88619
45969	P14079	Q9H1M4	0.83271
45970	P14079	Q9BVV8	1.1037
45971	P14079	Q8N2Z9	0.63901
45972	P14079	O95177	0.59394
45973	P14079	P17031	0.68126
45974	P14079	Q7Z6J9	1.1476
45975	P14079	Q9Y520	1.138
45976	P14079	Q5JRA6	0.10792
45977	P14079	Q5QP74	1.1715
45978	P14079	Q6ZS92	0.79499
45979	P14079	Q9UET6	0.90634
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45981	P14079	Q6IPT2	1.8805
45982	P14079	Q9Y478	0.10932
45983	P14079	Q13257	0.95912
45984	P14079	Q9H8Y1	1.2172
45985	P14079	Q8N6G1	1.1715
45986	P14079	A6NME0	0.77837
45987	P14079	O75251	0.50305
45988	P14079	Q7Z5S9	0.7849
45989	P14079	P62328	1.5892
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45992	P14079	O15195	0.084452
45993	P14079	Q8N2U0	1.1601
45994	P14079	Q96AA8	0.85897
45995	P14079	Q8WZA9	1.3222
45996	P14079	Q9HC47	1.1715
45997	P14079	O14561	0.64566
45998	P14079	Q6ZSK4	0.28022
45999	P14079	Q96EA4	0.94267
46000	P14079	Q9NS64	1.3845
46001	P14079	Q8TAM2	0.38681
46002	P14079	Q86UW6	0.47658
46003	P14079	P0DMC3	1.1715
46004	P14079	P18887	0.97031
46005	P14079	P55060	1.1172
46006	P14079	Q8IYS8	1.0549
46007	P14079	Q96I85	1.1715
46008	P14079	Q9P2R6	0.95177
46009	P14079	Q3LI62	1.1715
46010	P14079	O60888	1.0206
46011	P14079	P50549	0.80368
46012	P14079	A8MUA0	0.71632
46013	P14079	Q92973	1.2878
46014	P14079	Q9UKJ3	1.3031
46015	P14079	Q99569	0.5909
46016	P14079	A6NLW8	0.25626
46017	P14079	Q99613	0.84637
46018	P14079	P17029	0.84533
46019	P14079	P34949	1.0045
46020	P14079	Q68CQ4	0.50567
46021	P14079	Q9BYE7	0.66054
46022	P14079	Q9BRS8	0.61714
46023	P14079	Q96SK3	0.75812
46024	P14079	Q5JUK9	0.87986
46025	P14079	Q7L190	1.4904
46026	P14079	P22670	1.0037
46027	P14079	Q9HBH1	1.064
46028	P14079	Q8NFG4	1.6036
46029	P14079	Q9NQR1	0.4705
46030	P14079	Q8NB12	0.31465
46031	P14079	Q8NFP7	0.5433
46032	P14079	P35251	0.93369
46033	P14079	Q562F6	0.93548
46034	P14079	P49459	0.56404
46035	P14079	Q8WUY3	0.51418
46036	P14079	Q0P641	0.34652
46037	P14079	Q9H6Z9	0.51436
46038	P14079	Q9Y5J3	0.23832
46039	P14079	P41250	0.61106
46040	P14079	Q6NSI3	1.5847
46041	P14079	Q9H4B6	0.69755
46042	P14079	A6NC62	0.79041
46043	P14079	Q9BVC3	0.92553
46044	P14079	A6NIX2	1.0681
46045	P14079	Q9HCE0	0.66463
46046	P14079	Q9HC38	0.56644
46047	P14079	Q96QF0	0.78792
46048	P14079	P17275	0.86989
46049	P14079	P17021	0.63301
46050	P14079	P60328	0.4643
46051	P14079	Q5T655	1.1715
46052	P14079	Q9UJZ1	0.13043
46053	P14079	Q8WVK7	0.79555
46054	P14079	P25063	1.1715
46055	P14079	Q6ZTB9	0.58198
46056	P14079	Q66LE6	0.61407

46057	P14079	P16415	0.69298
46058	P14079	Q9ULJ1	0.27102
46059	P14079	Q86UW9	0.71351
46060	P14079	Q9NZT2	0.34337
46061	P14079	P62140	0.73213
46062	P14079	Q9NYT6	0.54706
46063	P14079	Q9H9L3	0.47764
46064	P14079	Q96IT6	1.1715
46065	P14079	Q6ZQT0	0.29306
46066	P14079	P49450	0.40599
46067	P14079	Q8N8M0	0.80482
46068	P14079	E9PI22	1.3036
46069	P14079	Q86UD0	0.84107
46070	P14079	Q6ZST8	0.42526
46071	P14079	Q86WJ1	0.22432
46072	P14079	Q9H379	1.3698
46073	P14079	F8W1W9	0.85075
46074	P14079	P23258	0.56665
46075	P14079	Q99990	0.67082
46076	P14079	Q86V81	0.82685
46077	P14079	Q8N2G8	0.10345
46078	P14079	Q8N485	0.59587
46079	P14079	I3L1I5	0.89553
46080	P14079	Q8WU58	0.7295
46081	P14079	Q9NY87	1.5672
46082	P14079	Q5VZ72	1.1047
46083	P14079	O95164	1.1657
46084	P14079	P15336	1.007
46085	P14079	Q9UI09	0.18323
46086	P14079	Q9UQK1	0.45356
46087	P14079	Q9UL12	0.27733
46088	P14079	Q14593	1.0416
46089	P14079	Q8N5X7	0.18127
46090	P14079	Q96BF6	0.44669
46091	P14079	Q9NRR4	0.52495
46092	P14079	Q8N4B1	0.29473
46093	P14079	Q9UBF2	0.49977
46094	P14079	Q9NZD4	1.3136
46095	P14079	B9A014	0.68497
46096	P14079	Q96AX1	0.28966
46097	P14079	Q86Y46	0.90092
46098	P14079	Q19AV6	1.8943
46099	P14079	Q4LEZ3	1.5542
46100	P14079	Q8IZA0	0.11531
46101	P14079	Q92750	0.70434
46102	P14079	P0CL81	0.99818
46103	P14079	Q6ZPA2	1.1715
46104	P14079	Q15010	0.27541
46105	P14079	A8MX34	1.0199
46106	P14079	P45381	0.40919
46107	P14079	Q9NYP8	0.86236
46108	P14079	Q9HD15	0.81901
46109	P14079	Q8IZ63	1.1715
46110	P14079	Q8N0U6	1.1715
46111	P14079	P46087	0.72645
46112	P14079	Q9ULZ0	0.28036
46113	P14079	P62166	0.31055
46114	P14079	A8MUU9	0.44324
46115	P14079	Q86U42	0.79452
46116	P14079	O95785	0.25518
46117	P14079	Q8WTW4	0.73884
46118	P14079	Q6R2W3	0.50892
46119	P14079	Q96JM3	0.52775
46120	P14079	Q7L8S5	0.68767
46121	P14079	Q99575	0.7507
46122	P14079	Q9P2A4	0.35778
46123	P14079	Q99460	0.73342
46124	P14079	P11686	0.19063
46125	P14079	O94964	1.3221
46126	P14079	Q96NC0	0.19168
46127	P14079	Q8NBT3	1.2485
46128	P14079	Q8IXK0	0.20684
46129	P14079	Q9H0C8	0.48094
46130	P14079	Q9Y5Q8	0.90791
46131	P14079	Q9HBH7	1.2234
46132	P14079	Q8NC38	0.68921

46133	P14079	Q4AC94	0.50486
46134	P14079	P24855	0.41532
46135	P14079	Q86TX2	0.23623
46136	P14079	O94811	1.1938
46137	P14079	Q8IVP9	0.68773
46138	P14079	P0C7W8	0.42916
46139	P14079	Q12981	0.22084
46140	P14079	Q9H720	0.76278
46141	P14079	Q16384	1.0102
46142	P14079	P35325	1.1715
46143	P14079	Q8NFC6	1.426
46144	P14079	Q8N5Q1	1.8805
46145	P14079	P35573	0.56956
46146	P14079	Q96GM5	0.87682
46147	P14079	Q96I59	0.93806
46148	P14079	Q9BV47	0.30407
46149	P14079	Q9Y697	0.53297
46150	P14079	Q7Z3Z2	0.80814
46151	P14079	A2A2V5	1.2485
46152	P14079	Q96IZ7	1.6932
46153	P14079	Q5VT33	1.0561
46154	P14079	Q9UP83	1.4109
46155	P14079	Q15424	0.78231
46156	P14079	Q96LW9	0.50361
46157	P14079	P53370	0.28988
46158	P14079	A6NEW6	0.50122
46159	P14079	Q92665	1.0836
46160	P14079	P78316	1.5094
46161	P14079	O00559	0.70333
46162	P14079	Q9NVV4	0.37993
46163	P14079	Q30KQ1	0.91101
46164	P14079	Q5VSD8	0.91925
46165	P14079	Q8NHW3	0.25031
46166	P14079	Q8N8Q9	1.288
46167	P14079	Q9H1H9	0.84329
46168	P14079	Q8NAP1	1.3222
46169	P14079	P51523	0.42092
46170	P14079	Q92616	0.31467
46171	P14079	Q17RF5	1.6543
46172	P14079	Q8NDL9	0.4298
46173	P14079	Q969F9	1.7573
46174	P14079	P24522	0.72305
46175	P14079	P0C1Z6	1.5552
46176	P14079	Q9NZ43	0.11193
46177	P14079	Q15697	0.56549
46178	P14079	Q8N2I2	0.5613
46179	P14079	O00148	0.11315
46180	P14079	Q96KX2	0.099211
46181	P14079	Q9Y2Q9	1.1544
46182	P14079	P48200	0.53296
46183	P14079	Q8WV07	0.67114
46184	P14079	Q9Y2B5	0.87921
46185	P14079	Q96AC1	0.2129
46186	P14079	P05814	1.283
46187	P14079	Q8NBN3	1.07
46188	P14079	Q8N1H7	0.78134
46189	P14079	Q9UKK6	0.90817
46190	P14079	Q96H22	1.0112
46191	P14079	Q99445	1.0261
46192	P14079	Q9BQE6	1.4565
46193	P14079	Q8N3V7	1.2495
46194	P14079	A6NI56	0.17318
46195	P14079	Q68DU8	0.09989
46196	P14079	Q9NZP6	1.4294
46197	P14079	Q3BBV0	0.51494
46198	P14079	Q96M83	0.60363
46199	P14079	Q96M78	0.16172
46200	P14079	P36578	1.1841
46201	P14079	O00124	0.64648
46202	P14079	Q9UBK9	1.1731
46203	P14079	P28702	0.4803
46204	P14079	Q969S2	0.6449
46205	P14079	P52743	0.87928
46206	P14079	P00156	0.83264
46207	P14079	P24278	0.82022
46208	P14079	P60660	0.36482

46209	P14079	Q13510	0.89222
46210	P14079	Q9P2X3	0.53955
46211	P14079	Q9BTV4	1.2072
46212	P14079	P04198	0.85622
46213	P14079	Q8N5N7	1.3095
46214	P14079	O43310	0.63702
46215	P14079	Q16630	0.32913
46216	P14079	Q9BYM8	0.25919
46217	P14079	A5D8V6	0.5802
46218	P14079	Q9NR28	1.0156
46219	P14079	Q6ZRH3	0.98809
46220	P14079	P27348	0.43432
46221	P14079	P0CJ72	1.3031
46222	P14079	Q9Y3C4	1.1411
46223	P14079	Q9Y3M9	0.43665
46224	P14079	Q9UBF1	0.95823
46225	P14079	Q6ZW49	0.35646
46226	P14079	Q9BY41	0.34641
46227	P14079	Q6ZRC1	1.1715
46228	P14079	A1L429	0.99818
46229	P14079	Q9NRX1	0.21047
46230	P14079	P62308	0.79088
46231	P14079	P17020	0.46843
46232	P14079	P07864	0.60641
46233	P14079	Q96RT7	0.73313
46234	P14079	Q96T49	0.34246
46235	P14079	P06454	1.2158
46236	P14079	Q95299	0.11193
46237	P14079	Q9BT73	0.033928
46238	P14079	Q8N9Z2	1.3103
46239	P14079	Q9H6D7	0.74419
46240	P14079	Q8NFD5	0.86989
46241	P14079	P26640	0.75011
46242	P14079	Q8WXH0	0.37918
46243	P14079	O14978	0.50576
46244	P14079	P23490	1.0462
46245	P14079	O60551	0.52303
46246	P14079	Q8TAD8	1.3186
46247	P14079	Q8WZ55	1.0478
46248	P14079	A6NNX1	0.456
46249	P14079	Q8WV37	1.0106
46250	P14079	Q9GZZ8	1.1715
46251	P14079	E9PQ53	1.3799
46252	P14079	Q86TU6	1.5193
46253	P14079	Q9NY30	0.5861
46254	P14079	Q9BQY4	0.87039
46255	P14079	Q9Y4A0	0.22994
46256	P14079	Q9Y3Y4	0.69802
46257	P14079	Q8NHS9	0.84314
46258	P14079	O75175	1.2501
46259	P14079	O75953	0.8209
46260	P14079	Q6ZMY3	0.39257
46261	P14079	Q5VVP1	2.1067
46262	P14079	A4D1N5	0.050586
46263	P14079	Q8NFH3	1.0451
46264	P14079	B4DZS4	0.91737
46265	P14079	Q5T0Z8	1.3222
46266	P14079	P55854	0.72692
46267	P14079	P0CW22	0.35338
46268	P14079	P35663	0.87908
46269	P14079	Q9Y6R6	0.77845
46270	P14079	Q8NDZ9	1.1715
46271	P14079	Q02833	1.0506
46272	P14079	Q9BYD1	1.2954
46273	P14079	Q6TFL3	0.51874
46274	P14079	Q9NYB0	1.3868
46275	P14079	Q9NYP3	1.2876
46276	P14079	Q96IZ0	0.88889
46277	P14079	O60749	0.40371
46278	P14079	P30419	0.61312
46279	P14079	Q8WUB8	0.42855
46280	P14079	Q96N03	0.56221
46281	P14079	Q9HB58	0.48009
46282	P14079	Q96ES6	1.1888
46283	P14079	Q8NA56	0.12101
46284	P14079	A1L4M7	0.53867

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46286	P14079	Q96RV3	0.90212
46287	P14079	Q86UA6	1.5804
46288	P14079	Q9UHR5	1.296
46289	P14079	Q00LT1	1.3639
46290	P14079	Q9NRN7	0.85257
46291	P14079	A6NMP4	0.73811
46292	P14079	P61586	1.0002
46293	P14079	O60506	0.41053
46294	P14079	Q9H944	1.1216
46295	P14079	Q92791	0.51659
46296	P14079	Q5VWM4	0.23582
46297	P14079	P07900	0.37972
46298	P14079	O75360	0.56413
46299	P14079	O43294	0.26735
46300	P14079	Q15370	1.0733
46301	P14079	Q6ZMZ3	0.34389
46302	P14079	Q8N6N3	1.2669
46303	P14079	Q8N945	0.28861
46304	P14079	Q3LI81	1.5617
46305	P14079	Q8NBJ7	0.78482
46306	P14079	Q9H8W2	0.78622
46307	P14079	Q9Y4B6	1.0215
46308	P14079	Q6ZW13	1.1715
46309	P14079	Q15468	0.8912
46310	P14079	Q9UK10	0.77845
46311	P14079	Q15696	0.27824
46312	P14079	Q8N8Y2	0.22388
46313	P14079	Q6GPH4	0.48648
46314	P14079	Q9P253	0.38226
46315	P14079	P0C7X3	1.0071
46316	P14079	Q3ZLR7	1.1571
46317	P14079	Q9P243	0.44368
46318	P14079	Q8TAT6	0.60557
46319	P14079	Q9Y2X9	0.6956
46320	P14079	Q7Z6I8	0.1972
46321	P14079	P05204	1.4345
46322	P14079	P0C843	1.0642
46323	P14079	Q8TF45	0.51784
46324	P14079	Q9UJG1	1.5137
46325	P14079	O95045	0.70949
46326	P14079	Q8NDX6	0.25535
46327	P14079	Q9Y5Y2	0.36504
46328	P14079	Q8TC56	1.8805
46329	P14079	Q9Y2V0	0.78852
46330	P14079	Q9Y2M5	0.8291
46331	P14079	Q15788	0.33503
46332	P14079	O43325	1.4554
46333	P14079	Q8TAD7	1.3222
46334	P14079	Q96EE3	0.63251
46335	P14079	Q86XU0	0.61968
46336	P14079	Q5TGS1	0.53112
46337	P14079	O95292	0.21831
46338	P14079	Q969H8	0.56769
46339	P14079	Q8N6U2	0.88733
46340	P14079	Q9UBB9	0.11939
46341	P14079	Q92759	0.78501
46342	P14079	Q2NL98	1.4633
46343	P14079	Q7Z412	0.49805
46344	P14079	Q9Y6Y0	0.87402
46345	P14079	Q9UFF9	0.46117
46346	P14079	Q9UJQ4	0.2776
46347	P14079	Q6PD74	1.0622
46348	P14079	Q8WWM7	0.84985
46349	P14079	P09012	0.40061
46350	P14079	Q8WVE6	1.2491
46351	P14079	Q96P11	0.27012
46352	P14079	O75909	1.1193
46353	P14079	Q93015	1.3566
46354	P14079	P86478	1.1715
46355	P14079	P60709	0.99952
46356	P14079	Q15185	0.49417
46357	P14079	Q5XKK7	0.61804
46358	P14079	Q8WXQ3	1.7722
46359	P14079	Q96LP6	0.55149
46360	P14079	Q96B33	0.80677

46361	P14079	P13639	0.32386
46362	P14079	Q8TB69	0.99996
46363	P14079	Q9Y4W2	1.4808
46364	P14079	A8MVJ9	1.3134
46365	P14079	O76013	0.89111
46366	P14079	Q969R8	0.21636
46367	P14079	Q13360	0.69598
46368	P14079	Q9H8V3	0.30676
46369	P14079	Q8N801	0.3216
46370	P14079	P49910	0.80948
46371	P14079	A9YTQ3	0.36908
46372	P14079	P16930	0.42436
46373	P14079	Q6UWT4	0.98371
46374	P14079	Q53GA4	0.26713
46375	P14079	Q8N841	0.16329
46376	P14079	Q5T1N1	1.7669
46377	P14079	P49356	0.22029
46378	P14079	P09669	0.92323
46379	P14079	Q8WWL7	1.0581
46380	P14079	Q15847	1.1715
46381	P14079	Q9HAW0	0.58565
46382	P14079	Q08J23	0.70295
46383	P14079	P26358	0.31541
46384	P14079	Q5VZB9	0.34305
46385	P14079	Q9UBV8	0.34285
46386	P14079	Q9BUL9	1.6376
46387	P14079	Q9UK99	0.23607
46388	P14079	Q8WTY6	0.49244
46389	P14079	P56192	0.96395
46390	P14079	Q96I45	1.0611
46391	P14079	Q9Y4X0	0.55607
46392	P14079	Q9Y6M1	0.35318
46393	P14079	Q8N4W9	0.77845
46394	P14079	Q96AQ6	1.5244
46395	P14079	Q9HCD5	1.0823
46396	P14079	Q9UNN4	0.49868
46397	P14079	Q01664	0.57174
46398	P14079	Q9HAP6	0.26763
46399	P14079	Q7Z3B3	0.62676
46400	P14079	Q13326	0.59723
46401	P14079	Q6KB66	0.68555
46402	P14079	Q86W11	0.53302
46403	P14079	Q495D7	0.7212
46404	P14079	Q8NEZ2	1.0224
46405	P14079	O43583	1.58
46406	P14079	Q8N8U2	0.57165
46407	P14079	Q96HG1	1.1715
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46413	P14079	P51861	1.0928
46414	P14079	Q96B23	1.4247
46415	P14079	Q9HCK8	0.25544
46416	P14079	O14818	1.1252
46417	P14079	Q9UJA5	1.5428
46418	P14079	Q13794	0.78216
46419	P14079	Q9HBF5	1.4218
46420	P14079	Q96M95	0.20635
46421	P14079	Q5TF58	0.010267
46422	P14079	P22033	0.89387
46423	P14079	Q5VIR6	1.1035
46424	P14079	P46695	0.06196
46425	P14079	P59797	1.4417
46426	P14079	Q92837	1.4457
46427	P14079	Q70Z53	1.4174
46428	P14079	Q8WU20	0.49101
46429	P14079	Q9P0J0	0.54655
46430	P14079	Q5T754	1.1715
46431	P14079	Q86WC6	0.44638
46432	P14079	O00570	0.76011
46433	P14079	Q8IVP5	0.43385
46434	P14079	O00221	0.25504
46435	P14079	P26447	0.40345
46436	P14079	Q9NSD9	1.357



46437	P14079	P15822	0.97655
46438	P14079	Q71UM5	0.84666
46439	P14079	Q9Y312	0.73746
46440	P14079	P51786	0.58477
46441	P14079	Q5GH77	1.2967
46442	P14079	Q96MP5	0.96459
46443	P14079	O14653	0.48837
46444	P14079	Q14134	0.63721
46445	P14079	Q14684	0.78842
46446	P14079	A8MXZ3	1.1715
46447	P14079	Q6ZMB5	0.80647
46448	P14079	O76041	0.29068
46449	P14079	Q5JTJ3	0.60441
46450	P14079	Q92889	0.35617
46451	P14079	Q9BQA9	0.78103
46452	P14079	Q9Y512	0.39629
46453	P14079	Q5JVG2	0.43827
46454	P14079	Q9BX69	0.28419
46455	P14079	Q9H0R8	0.49318
46456	P14079	Q3ZCV2	1.3222
46457	P14079	Q71RC2	0.7753
46458	P14079	Q8IX07	0.33682
46459	P14079	Q9BQJ4	1.416
46460	P14079	C9JDV5	0.34773
46461	P14079	Q17RM4	1.1876
46462	P14079	Q6NSX1	1.1393
46463	P14079	Q96PE7	0.078639
46464	P14079	Q12767	1.2485
46465	P14079	Q14153	1.4106
46466	P14079	P31249	0.3817
46467	P14079	Q9Y3V2	0.986
46468	P14079	Q9BPU9	0.57826
46469	P14079	Q8WZ26	0.91231
46470	P14079	Q96HV5	1.2024
46471	P14079	Q9UJW8	0.53909
46472	P14079	O76015	0.88619
46473	P14079	Q14689	0.21852
46474	P14079	Q7RTT5	0.5033
46475	P14079	Q7RTT6	1.0669
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46477	P14079	Q15366	1.0026
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46479	P14079	Q8N1D0	0.41893
46480	P14079	Q9NZY2	1.1715
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46482	P14079	Q68E01	1.1752
46483	P14079	A6NKF1	1.187
46484	P14079	Q9Y5U8	1.0559
46485	P14079	Q8N8I6	1.1715
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46487	P14079	Q9P258	0.74223
46488	P14079	Q96B96	1.1905
46489	P14079	Q9Y248	0.993
46490	P14079	Q9HA92	0.75283
46491	P14079	Q5PR19	0.57015
46492	P14079	Q2M3X9	0.58948
46493	P14079	Q8TBZ5	0.60617
46494	P14079	Q9Y693	1.0892
46495	P14079	Q15834	1.6027
46496	P14079	P58512	1.4076
46497	P14079	Q9BYC8	1.358
46498	P14079	P55789	0.60627
46499	P14079	A4D1B5	0.41503
46500	P14079	Q86UY8	0.18886
46501	P14079	O43903	0.21429
46502	P14079	A6NK06	0.7927
46503	P14079	Q14533	1.2624
46504	P14079	Q17RN3	1.0245
46505	P14079	Q6ZW34	1.1715
46506	P14079	Q9NS26	1.6039
46507	P14079	Q9NZI5	0.38913
46508	P14079	Q96MF6	1.1332
46509	P14079	Q96Q05	0.71092
46510	P14079	Q8WUY8	1.3524
46511	P14079	P09497	0.60453
46512	P14079	Q14247	0.39231

46513	P14079	Q8IUB9	1.1715
46514	P14079	Q9NS25	1.6647
46515	P14079	Q6P1S2	0.73522
46516	P14079	Q9BTL3	1.4185
46517	P14079	Q2TAL8	1.5279
46518	P14079	P56270	0.76103
46519	P14079	Q13409	0.90128
46520	P14079	O60936	1.4994
46521	P14079	P04141	0.3192
46522	P14079	Q5TB30	0.19381
46523	P14079	O00110	0.25535
46524	P14079	O14836	0.79686
46525	P14079	B3EWG6	1.3222
46526	P14079	P27695	0.40389
46527	P14079	Q53HI1	1.2269
46528	P14079	Q8WUB2	0.92288
46529	P14079	Q5JVF3	0.4711
46530	P14079	Q12983	0.31011
46531	P14079	Q16082	0.97903
46532	P14079	Q8NA42	0.62543
46533	P14079	Q8NHQ8	1.3577
46534	P14079	Q9P2X7	1.1715
46535	P14079	Q9BYQ7	1.4903
46536	P14079	Q13561	1.0563
46537	P14079	P51811	0.48458
46538	P14079	Q96BY7	0.42558
46539	P14079	Q9NX18	1.2662
46540	P14079	Q9Y471	0.74886
46541	P14079	Q8IX21	0.67217
46542	P14079	Q0IIN9	0.96477
46543	P14079	P49721	0.9257
46544	P14079	Q92905	0.61873
46545	P14079	Q9UJY1	0.51272
46546	P14079	P62304	0.79088
46547	P14079	Q15428	1.2202
46548	P14079	Q8N268	0.44185
46549	P14079	Q8TCU4	0.48652
46550	P14079	Q9P2K3	1.3016
46551	P14079	Q8N8U3	0.44963
46552	P14079	Q2M238	0.39555
46553	P14079	Q6ZMW2	0.59361
46554	P14079	O43264	0.80601
46555	P14079	Q9BRJ6	1.3436
46556	P14079	O43612	0.57385
46557	P14079	A2RRP1	0.5874
46558	P14079	Q9UHL9	1.0411
46559	P14079	Q5VSR9	1.5871
46560	P14079	P13232	0.23998
46561	P14079	O75335	0.38952
46562	P14079	Q7Z3V5	0.76643
46563	P14079	O96002	1.1715
46564	P14079	P51116	0.80869
46565	P14079	Q13351	0.24015
46566	P14079	Q99909	0.63993
46567	P14079	P10124	0.84379
46568	P14079	P78424	0.24971
46569	P14079	Q96RK1	0.66181
46570	P14079	Q9UBD0	1.0024
46571	P14079	Q9H0K6	0.59132
46572	P14079	Q9P0S9	1.1991
46573	P14079	Q8IWJ2	0.88802
46574	P14079	A2RUB6	0.5633
46575	P14079	Q9NX01	0.22059
46576	P14079	Q5C9Z4	0.72507
46577	P14079	Q156A1	1.1715
46578	P14079	Q96T92	0.32579
46579	P14079	Q9BU02	1.4752
46580	P14079	Q75NE6	1.7896
46581	P14079	Q8N668	0.8728
46582	P14079	Q92618	0.45445
46583	P14079	P81172	0.90887
46584	P14079	Q96H79	1.1469
46585	P14079	Q5TG53	1.1715
46586	P14079	Q8NC74	0.66448
46587	P14079	Q96LX7	0.24257
46588	P14079	Q9H633	0.71899

46589	P14079	Q6P499	1.288
46590	P14079	Q9P2L0	0.24371
46591	P14079	Q4G0N7	1.1772
46592	P14079	Q96FG2	0.77824
46593	P14079	O94992	1.9791
46594	P14079	Q9NY74	1.7829
46595	P14079	Q9NV70	0.77687
46596	P14079	Q15042	0.82616
46597	P14079	Q5JRC9	1.563
46598	P14079	Q9BQ52	0.59042
46599	P14079	O95171	0.24918
46600	P14079	Q14194	0.51502
46601	P14079	Q49MG5	1.5728
46602	P14079	Q6ZVW7	0.40597
46603	P14079	Q9NVK5	0.44274
46604	P14079	Q7Z309	0.62375
46605	P14079	O15235	1.1209
46606	P14079	Q9BR76	0.67612
46607	P14079	Q96KN1	0.54018
46608	P14079	Q9BQD3	0.62279
46609	P14079	Q9UMX3	0.71216
46610	P14079	Q8NEP9	0.96033
46611	P14079	Q96B70	0.631
46612	P14079	Q17RP2	0.07601
46613	P14079	Q86X51	0.84025
46614	P14079	Q6ZRG5	0.13328
46615	P14079	Q68D10	1.3222
46616	P14079	Q96N35	1.1715
46617	P14079	Q6UXR8	1.1715
46618	P14079	Q8N635	0.21069
46619	P14079	Q96LI9	1.0458
46620	P14079	P60059	0.62098
46621	P14079	Q49A33	0.96042
46622	P14079	Q8TAL5	1.1147
46623	P14079	Q9NX58	0.97698
46624	P14079	Q8IWA6	0.78655
46625	P14079	Q9UKL0	1.3743
46626	P14079	Q9Y2Y1	0.2521
46627	P14079	Q9BYV9	0.34085
46628	P14079	B2RUZ4	1.9102
46629	P14079	P63010	0.58823
46630	P14079	A7MCY6	1.1699
46631	P14079	P32929	0.32406
46632	P14079	Q86VD1	0.84372
46633	P14079	Q9Y284	1.5652
46634	P14079	Q7Z7J5	1.6035
46635	P14079	P62906	0.89675
46636	P14079	P68543	0.67857
46637	P14079	Q9H8U3	0.44416
46638	P14079	Q8N8K9	0.75198
46639	P14079	Q9UI32	0.32823
46640	P14079	Q96MA1	0.24718
46641	P14079	Q5VZ52	0.19009
46642	P14079	Q8N1I8	1.1715
46643	P14079	Q5BIV9	1.2495
46644	P14079	P48788	0.75294
46645	P14079	Q99766	1.136
46646	P14079	Q9Y2M0	1.0293
46647	P14079	P09917	0.27611
46648	P14079	Q9H091	0.88953
46649	P14079	A8MVA2	1.3698
46650	P14079	Q969W0	1.1145
46651	P14079	Q15035	0.44496
46652	P14079	Q8NBK3	0.53612
46653	P14079	Q96Q06	1.3686
46654	P14079	Q1ZZU3	0.85797
46655	P14079	Q9HAU5	0.86467
46656	P14079	Q8NDB6	0.73902
46657	P14079	Q9Y2L1	0.35797
46658	P14079	Q9H3Y8	0.6771
46659	P14079	Q9H0I2	0.6489
46660	P14079	Q9NWR8	1.1808
46661	P14079	A1A5D9	1.3485
46662	P14079	Q6ZUC2	1.1308
46663	P14079	Q2VY69	0.6867
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46667	P14079	Q9Y281	0.87566
46668	P14079	Q6UWQ7	1.179
46669	P14079	Q6IPW1	0.84062
46670	P14079	Q96AJ1	1.8924
46671	P14079	A8MT69	0.47369
46672	P14079	P22830	0.24916
46673	P14079	Q96PT3	0.2245
46674	P14079	Q14586	0.54706
46675	P14079	Q9NXV2	1.5238
46676	P14079	Q9Y597	0.18591
46677	P14079	O15397	1.0661
46678	P14079	Q96RL1	0.69462
46679	P14079	Q9Y603	1.0917
46680	P14079	Q9NWX6	1.0228
46681	P14079	P60329	0.4643
46682	P14079	Q8N140	1.1533
46683	P14079	Q9H649	0.25428
46684	P14079	Q96NJ3	0.55945
46685	P14079	Q8NA77	1.1016
46686	P14079	Q9HAI6	1.2004
46687	P14079	Q9NUL5	0.73707
46688	P14079	Q8NAM6	0.08829
46689	P14079	Q9NS56	0.26052
46690	P14079	O60264	0.24762
46691	P14079	Q9BQC3	1.5583
46692	P14079	Q96A26	0.59041
46693	P14079	Q8TDH9	0.37268
46694	P14079	Q9HC78	0.38798
46695	P14079	Q5T7N7	1.1715
46696	P14079	Q9NPJ6	1.1048
46697	P14079	Q8IWA0	0.27853
46698	P14079	Q9ULX9	0.45253
46699	P14079	Q15327	0.52229
46700	P14079	Q8TF30	0.17554
46701	P14079	Q7Z5B4	1.1257
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46703	P14079	Q92530	1.1169
46704	P14079	P49790	1.2323
46705	P14079	P0DJ07	1.2916
46706	P14079	Q8NDW8	0.17571
46707	P14079	O15040	0.56221
46708	P14079	O00287	1.4402
46709	P14079	Q9BZL3	1.2438
46710	P14079	P62316	0.81563
46711	P14079	Q9NSC5	0.6154
46712	P14079	Q6ZN28	1.2595
46713	P14079	P47914	1.6642
46714	P14079	Q9H6X4	1.2485
46715	P14079	Q14135	0.46001
46716	P14079	Q96DX5	0.96869
46717	P14079	P50539	0.3262
46718	P14079	P62280	1.2308
46719	P14079	Q96GK7	0.85454
46720	P14079	Q5XKE5	0.97807
46721	P14079	Q66K66	1.1905
46722	P14079	P46926	0.19637
46723	P14079	Q93075	1.1
46724	P14079	Q16378	1.1715
46725	P14079	Q8N7W2	1.1043
46726	P14079	P53677	0.51642
46727	P14079	Q9NPL8	1.3081
46728	P14079	Q13227	1.7877
46729	P14079	Q8IVC4	0.62784
46730	P14079	Q9UI36	0.21828
46731	P14079	Q6UXP8	1.1715
46732	P14079	P11277	0.47428
46733	P14079	Q8IU54	0.6502
46734	P14079	Q86UE4	0.99589
46735	P14079	Q92982	0.92601
46736	P14079	C9JG80	0.0132
46737	P14079	Q9BRD0	1.1869
46738	P14079	Q9C0F3	0.51295
46739	P14079	Q8N7M0	0.68191
46740	P14079	Q969Z0	0.72808

46741	P14079	Q6P5R6	0.49889
46742	P14079	Q8WTV1	1.5608
46743	P14079	Q5SW79	1.2527
46744	P14079	Q9H354	1.1363
46745	P14079	Q86UU0	1.2687
46746	P14079	A8MVS1	0.97958
46747	P14079	Q5RL73	0.90297
46748	P14079	P84090	0.74249
46749	P14079	Q9UMQ3	0.78855
46750	P14079	Q969S9	0.95321
46751	P14079	Q5TA77	1.1715
46752	P14079	O95744	0.17708
46753	P14079	Q2TBE0	1.0173
46754	P14079	Q5JSQ8	0.52068
46755	P14079	Q8N1X5	1.1715
46756	P14079	Q9BQQ3	0.44857
46757	P14079	A6NFQ2	1.3323
46758	P14079	P62310	0.59113
46759	P14079	O95336	0.17151
46760	P14079	Q9UI30	0.85602
46761	P14079	P35638	0.68384
46762	P14079	Q9Y6X0	0.092831
46763	P14079	Q96J02	0.22763
46764	P14079	Q14154	0.76014
46765	P14079	Q9HA38	0.31108
46766	P14079	O95551	0.67931
46767	P14079	Q7Z7B8	0.7885
46768	P14079	Q9NYP9	0.79074
46769	P14079	P21127	0.019892
46770	P14079	Q07955	0.59424
46771	P14079	O15083	0.83
46772	P14079	O95295	0.49368
46773	P14079	Q96ES7	0.48021
46774	P14079	Q92817	0.2619
46775	P14079	Q8IW40	0.62875
46776	P14079	Q8WWY6	0.46001
46777	P14079	Q9Y324	1.4302
46778	P14079	E5RJ46	1.1715
46779	P14079	Q9NX77	0.67632
46780	P14079	Q9NX38	0.54613
46781	P14079	Q8IXQ9	0.59026
46782	P14079	Q9H2F5	0.64266
46783	P14079	O43296	0.67419
46784	P14079	Q9NQ03	0.28348
46785	P14079	Q6H8Q1	0.44301
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46787	P14079	D6RF30	0.32342
46788	P14079	Q8N0X7	0.33756
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46790	P14079	Q9C0F0	0.7151
46791	P14079	Q9UDV7	0.5221
46792	P14079	P49902	0.47454
46793	P14079	Q5H9B9	0.76129
46794	P14079	O97980	1.0613
46795	P14079	Q8WZ69	0.69812
46796	P14079	O14593	0.62471
46797	P14079	Q8IZN7	1.2598
46798	P14079	Q4G0G2	1.2808
46799	P14079	Q9NW68	0.11129
46800	P14079	Q8N0Z3	0.83672
46801	P14079	P23297	0.65573
46802	P14079	P49642	0.70213
46803	P14079	Q9UFN0	0.85079
46804	P14079	Q9NP77	0.25698
46805	P14079	P61574	1.355
46806	P14079	Q16621	0.38414
46807	P14079	Q9GZP8	1.1715
46808	P14079	Q9NV79	0.23644
46809	P14079	Q5T0D9	0.96378
46810	P14079	A9QM74	0.74447
46811	P14079	Q92754	0.47927
46812	P14079	P61962	0.51928
46813	P14079	Q9BZQ2	0.86063
46814	P14079	Q03701	0.4328
46815	P14079	A2IDD5	0.98748
46816	P14079	P06748	0.61252

46817	P14079	P01106	0.4548
46818	P14079	Q9BSJ2	1.4884
46819	P14079	Q6ZP65	0.29059
46820	P14079	Q5TZK3	0.41231
46821	P14079	Q4KMQ1	1.3945
46822	P14079	Q8IV32	1.3103
46823	P14079	Q9H5Y0	1.1977
46824	P14079	P62258	0.99134
46825	P14079	Q13316	1.0114
46826	P14079	Q8NDH2	0.46743
46827	P14079	Q9UGC7	1.0983
46828	P14079	Q9H6P5	0.83297
46829	P14079	Q8N699	1.4834
46830	P14079	Q96LR2	1.6693
46831	P14079	O14662	0.63466
46832	P14079	Q9UBC9	0.70807
46833	P14079	Q8TD31	1.5287
46834	P14079	Q9ULU4	0.77514
46835	P14079	O14569	1.0846
46836	P14079	O43303	1.2546
46837	P14079	Q8IX19	0.91911
46838	P14079	P12883	0.029907
46839	P14079	Q5HYK7	1.2276
46840	P14079	Q5VTE6	0.25093
46841	P14079	Q8WWR8	0.37398
46842	P14079	Q9H115	0.1505
46843	P14079	Q9NRT5	0.98554
46844	P14079	Q6ZTC4	1.1715
46845	P14079	Q8NEM0	0.25939
46846	P14079	Q9H0G5	0.84899
46847	P14079	Q15973	0.56012
46848	P14079	Q9Y262	1.007
46849	P14079	P50453	0.58006
46850	P14079	Q13596	0.53389
46851	P14079	Q9Y3A0	0.8541
46852	P14079	Q86U37	0.5118
46853	P14079	Q6SJ96	0.8553
46854	P14079	P61803	1.013
46855	P14079	Q9BZS9	1.1715
46856	P14079	Q9H8Y5	0.28018
46857	P14079	Q9H6Q3	0.27607
46858	P14079	P02794	0.68691
46859	P14079	Q9HBK9	0.15658
46860	P14079	Q96F07	0.68049
46861	P14079	Q9BTC8	0.6807
46862	P14079	Q9C0F1	0.60994
46863	P14079	Q6PI47	0.18591
46864	P14079	O00472	0.55101
46865	P14079	O76003	0.27567
46866	P14079	Q9NUJ3	0.94507
46867	P14079	Q7RTS9	1.6545
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46870	P14079	Q9NX04	1.0719
46871	P14079	P10620	0.37055
46872	P14079	Q6PCE3	0.88769
46873	P14079	Q9NZ20	0.62318
46874	P14079	O00505	1.3124
46875	P14079	Q9C099	1.1827
46876	P14079	Q9BXD5	1.0285
46877	P14079	Q86YI8	0.82436
46878	P14079	O43502	0.25181
46879	P14079	Q9H9R9	0.27259
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46881	P14079	O75444	0.36893
46882	P14079	Q69YG0	0.89617
46883	P14079	Q6UX46	1.2766
46884	P14079	Q8WXC6	0.89072
46885	P14079	Q6DKK2	1.2422
46886	P14079	Q15181	0.22589
46887	P14079	Q5R3I4	0.76669
46888	P14079	Q9BYR4	1.3698
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46890	P14079	Q68D91	0.20182
46891	P14079	Q5VZE5	0.60146
46892	P14079	Q8N300	0.81519

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46894	P14079	O43402	1.4169
46895	P14079	Q969W3	1.3025
46896	P14079	Q5BKX5	1.3222
46897	P14079	Q14181	0.90529
46898	P14079	Q6MZT1	1.6755
46899	P14079	Q9UIE0	0.61583
46900	P14079	Q9H0W7	0.095786
46901	P14079	Q6P3V2	0.43181
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46903	P14079	P54277	0.20422
46904	P14079	Q6P1L6	0.53333
46905	P14079	Q7Z3G6	0.23989
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46907	P14079	Q9H6Z4	1.3066
46908	P14079	Q13137	1.3248
46909	P14079	Q9UH92	0.54754
46910	P14079	B7ZAQ6	1.0766
46911	P14079	Q14CN4	0.90092
46912	P14079	O43929	0.15225
46913	P14079	Q969H4	0.35284
46914	P14079	Q86VK4	0.1949
46915	P14079	Q8N7Q2	1.1715
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46919	P14079	P56645	0.25887
46920	P14079	Q8NDW4	0.58579
46921	P14079	Q0VGE8	0.55107
46922	P14079	F2Z333	1.2485
46923	P14079	Q6NT89	1.6052
46924	P14079	A6NNV3	1.092
46925	P14079	Q12765	1.2277
46926	P14079	Q96QR1	1.3458
46927	P14079	H3BNL8	1.4707
46928	P14079	Q9H3R5	0.6487
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46930	P14079	P52657	1.2857
46931	P14079	P05783	1.5771
46932	P14079	Q9Y2Z4	1.0041
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46938	P14079	P56693	0.59086
46939	P14079	Q9P1J3	1.1715
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46942	P14079	Q16236	0.61135
46943	P14079	Q9P2M7	0.72392
46944	P14079	Q94973	0.54956
46945	P14079	P98169	0.14748
46946	P14079	Q16533	0.99906
46947	P14079	Q5T2W1	0.62129
46948	P14079	Q9Y692	0.54917
46949	P14079	P17025	0.5751
46950	P14079	Q5SXM8	0.71366
46951	P14079	Q9BWN1	1.3222
46952	P14079	Q13398	1.0082
46953	P14079	A6NGG3	1.1715
46954	P14079	Q96LD1	0.71011
46955	P14079	Q96P16	0.30841
46956	P14079	P61163	0.51854
46957	P14079	Q8TDB4	0.6111
46958	P14079	O94952	1.2769
46959	P14079	Q96KJ9	0.63232
46960	P14079	Q8WVH0	0.45689
46961	P14079	Q00444	0.20401
46962	P14079	Q8IYJ0	1.0077
46963	P14079	A6NEQ2	1.1715
46964	P14079	Q9GZM8	0.16153
46965	P14079	Q8TAE8	1.2109
46966	P14079	Q9Y3R4	0.56955
46967	P14079	Q06190	0.35736
46968	P14079	O43541	1.0002

46969	P14079	Q8N1B4	0.96022
46970	P14079	Q15365	1.0645
46971	P14079	Q00577	0.25729
46972	P14079	Q9NVL1	0.096751
46973	P14079	P59022	1.2299
46974	P14079	P0CL80	0.99818
46975	P14079	O95997	0.80691
46976	P14079	Q9Y3D2	0.6629
46977	P14079	Q2T9F4	0.49817
46978	P14079	Q9P0U4	0.40074
46979	P14079	O14862	0.60936
46980	P14079	Q04726	1.0096
46981	P14079	Q96RE7	0.91919
46982	P14079	Q9H6L5	1.204
46983	P14079	Q5JUQ0	0.82273
46984	P14079	Q6URH7	0.40586
46985	P14079	Q9NP92	1.4515
46986	P14079	A6NH52	1.4268
46987	P14079	Q8WUQ7	0.35942
46988	P14079	Q6ZRU5	1.1715
46989	P14079	Q9HAN9	0.57993
46990	P14079	Q9Y606	1.5284
46991	P14079	Q9UJX6	0.68984
46992	P14079	Q12972	0.60179
46993	P14079	Q494X3	1.0057
46994	P14079	Q9NP87	0.31543
46995	P14079	Q9Y4X4	0.26907
46996	P14079	P0C853	1.1715
46997	P14079	Q9BYN8	1.5042
46998	P14079	Q5SRD0	0.78389
46999	P14079	Q96GE9	1.1025
47000	P14079	Q12800	0.23725
47001	P14079	Q86WB0	1.7921
47002	P14079	Q8TDP1	1.2571
47003	P14079	Q14139	0.43973
47004	P14079	Q86WZ0	1.2281
47005	P14079	Q8N2G4	0.55467
47006	P14079	Q8N2H4	1.6954
47007	P14079	Q7RTU0	0.42542
47008	P14079	Q96FB5	1.2828
47009	P14079	Q8NCU1	1.1333
47010	P14079	Q9P031	1.8208
47011	P14079	Q8WW24	0.4859
47012	P14079	Q96G01	0.34967
47013	P14079	Q0VD86	0.42364
47014	P14079	Q9H0H0	0.76335
47015	P14079	Q9BS34	0.5583
47016	P14079	A6NFA0	1.2485
47017	P14079	Q7RTV3	0.33874
47018	P14079	Q9P0W5	1.211
47019	P14079	Q96A44	0.51053
47020	P14079	P01358	1.1715
47021	P14079	Q13405	1.0375
47022	P14079	Q8TBR4	0.75577
47023	P14079	Q96E09	1.3798
47024	P14079	Q5T5Y3	0.70577
47025	P14079	Q9UFE4	0.48824
47026	P14079	P48444	0.61213
47027	P14079	Q8N8A4	0.45439
47028	P14079	Q6ZV50	0.40094
47029	P14079	P0CJ92	0.47222
47030	P14079	P0DKV0	0.52246
47031	P14079	Q96JE9	0.50405
47032	P14079	Q8WVK2	1.4232
47033	P14079	O95478	0.98764
47034	P14079	Q6L8G5	1.1715
47035	P14079	Q2M2I3	0.42028
47036	P14079	Q86WR6	0.11302
47037	P14079	Q5TEZ4	1.1715
47038	P14079	O75366	0.03519
47039	P14079	Q8WW43	0.44321
47040	P14079	Q96DB5	0.81776
47041	P14079	Q96SL8	0.45054
47042	P14079	O42043	0.89894
47043	P14079	P42224	0.27399
47044	P14079	Q9HCU9	1.3518



47045	P14079	A4D1U4	0.92289
47046	P14079	P00480	0.43592
47047	P14079	Q6P4R8	1.1571
47048	P14079	O75964	0.37657
47049	P14079	Q5VUA4	0.5522
47050	P14079	Q86V85	1.0214
47051	P14079	Q86UD4	0.53698
47052	P14079	O00411	0.89423
47053	P14079	Q96BM0	0.99429
47054	P14079	O75531	1.2091
47055	P14079	Q2M2E5	1.1606
47056	P14079	Q8IUC2	1.497
47057	P14079	Q6S9Z5	1.5994
47058	P14079	Q9UPV7	0.88749
47059	P14079	Q6L8G9	1.1715
47060	P14079	Q8N6L7	1.5998
47061	P14079	Q7Z570	0.41433
47062	P14079	P58505	0.9848
47063	P14079	Q8N1V2	0.66973
47064	P14079	Q5VTH2	1.0108
47065	P14079	Q9BZG8	0.64153
47066	P14079	Q8I WV1	0.93551
47067	P14079	Q9UN37	0.51704
47068	P14079	Q13617	0.82578
47069	P14079	Q6UX71	0.25154
47070	P14079	P02810	1.1715
47071	P14079	Q8TEX9	0.59093
47072	P14079	P0CG35	1.1711
47073	P14079	Q6ZNM6	1.3143
47074	P14079	C9J442	0.86791
47075	P14079	P33992	0.34466
47076	P14079	Q8N0Z6	0.41189
47077	P14079	Q96RU7	0.35709
47078	P14079	Q7Z614	0.66074
47079	P14079	O00488	0.27261
47080	P14079	O60831	1.6215
47081	P14079	Q4QY38	0.91101
47082	P14079	Q96QA6	0.51205
47083	P14079	A8MYP8	1.1675
47084	P14079	P17038	0.78684
47085	P14079	Q6ECI4	0.75812
47086	P14079	Q8N3J9	0.53011
47087	P14079	O43543	0.17588
47088	P14079	Q8IWD5	1.1674
47089	P14079	Q8TBZ0	0.32082
47090	P14079	Q9H4Z3	0.14508
47091	P14079	Q6ZVT0	0.15983
47092	P14079	P10588	0.35299
47093	P14079	Q8N3X6	1.3764
47094	P14079	Q569K4	0.41299
47095	P14079	Q99848	0.63023
47096	P14079	Q6ZRP5	1.1715
47097	P14079	Q9UI17	0.28997
47098	P14079	Q96FZ7	0.21536
47099	P14079	Q8N1G0	0.31886
47100	P14079	Q6PGN9	1.3047
47101	P14079	Q13601	0.4915
47102	P14079	Q5QJE6	1.5743
47103	P14079	Q9BX26	1.5747
47104	P14079	Q3LI72	1.1715
47105	P14079	Q3LI77	0.38733
47106	P14079	Q8IXJ6	0.43022
47107	P14079	Q6IA69	0.8506
47108	P14079	Q8NA58	0.75455
47109	P14079	H3BU77	1.2231
47110	P14079	P63241	0.60259
47111	P14079	Q96JL9	0.58146
47112	P14079	B1AJZ1	0.35534
47113	P14079	Q5VZI3	0.96135
47114	P14079	Q99595	0.3024
47115	P14079	Q13542	0.84446
47116	P14079	Q6AI39	1.4234
47117	P14079	Q9UBW5	0.72622
47118	P14079	Q86WG5	0.26861
47119	P14079	A6NEA5	0.77329
47120	P14079	P35226	0.52277

47121	P14079	Q8NBF4	0.40238
47122	P14079	Q5TB80	0.97846
47123	P14079	Q9UH77	0.86931
47124	P14079	Q9ULD2	0.61049
47125	P14079	P18850	0.69574
47126	P14079	Q4ZIN3	0.92863
47127	P14079	Q8N0Z2	0.515
47128	P14079	Q8IZL8	1.734
47129	P14079	Q8N612	1.2179
47130	P14079	P32243	0.70641
47131	P14079	Q5U649	0.8077
47132	P14079	Q6RUI8	1.0067
47133	P14079	Q96S66	1.0439
47134	P14079	Q86UL8	0.42389
47135	P14079	Q8WX92	1.49
47136	P14079	O60296	0.55606
47137	P14079	P61353	0.90311
47138	P14079	Q9BT78	1.0752
47139	P14079	Q6PJ61	1.4744
47140	P14079	Q53HL2	1.0798
47141	P14079	P14625	0.13259
47142	P14079	Q68CL5	0.25965
47143	P14079	Q00587	0.53442
47144	P14079	Q969V4	0.24436
47145	P14079	P62081	1.2158
47146	P14079	Q86VE0	1.9844
47147	P14079	A6NP61	1.5416
47148	P14079	A8MV24	0.86888
47149	P14079	Q96HP8	1.7635
47150	P14079	Q3KNV8	0.90711
47151	P14079	Q86XF7	1.0317
47152	P14079	Q8NAV1	1.4595
47153	P14079	Q15554	0.59298
47154	P14079	Q7Z6R9	0.27592
47155	P14079	Q9Y5R8	0.22979
47156	P14079	Q9HAC7	0.40397
47157	P14079	Q8WWK9	0.73992
47158	P14079	Q5W0Q7	0.69597
47159	P14079	Q5HY98	0.94687
47160	P14079	Q9H1A3	0.56221
47161	P14079	P62945	1.1715
47162	P14079	A6NDX5	0.76931
47163	P14079	Q96MW5	0.22963
47164	P14079	Q5JXC2	0.85423
47165	P14079	P20700	0.85037
47166	P14079	Q6P9A3	0.55626
47167	P14079	Q92628	1.1914
47168	P14079	Q9UIV1	1.0611
47169	P14079	Q8N3J2	0.41934
47170	P14079	Q96IU4	0.37496
47171	P14079	Q6B0K9	0.67533
47172	P14079	Q6ZR54	1.1715
47173	P14079	P41212	0.67455
47174	P14079	Q6ICG8	1.8858
47175	P14079	Q6ZUX7	1.089
47176	P14079	Q9GZP4	0.41871
47177	P14079	Q9Y2A4	1.0063
47178	P14079	P32780	0.85017
47179	P14079	Q86Y91	0.32532
47180	P14079	Q5SWL8	0.44171
47181	P14079	Q9NUM4	1.1092
47182	P14079	O75081	1.3237
47183	P14079	Q8TAP9	1.7479
47184	P14079	Q86UZ6	0.25535
47185	P14079	Q9NQ60	1.1768
47186	P14079	Q9BSJ6	0.93719
47187	P14079	P50548	0.84161
47188	P14079	Q16762	0.45974
47189	P14079	Q9NYJ1	1.7853
47190	P14079	Q3LI64	1.1715
47191	P14079	Q53HV7	0.94774
47192	P14079	Q8N5P1	0.31955
47193	P14079	Q9Y2K1	0.1949
47194	P14079	Q6PJW8	0.25691
47195	P14079	Q86SQ7	1.3851
47196	P14079	Q9C0B2	0.97185

47197	P14079	Q8N1L9	0.9021
47198	P14079	Q9NQ89	0.7842
47199	P14079	Q8WWZ3	0.59849
47200	P14079	Q5HYN5	0.69828
47201	P14079	Q13064	0.25562
47202	P14079	Q8IXM7	0.89587
47203	P14079	Q04743	0.32405
47204	P14079	O95760	0.47642
47205	P14079	Q16775	0.68487
47206	P14079	Q8N682	0.91469
47207	P14079	Q96EL3	0.37599
47208	P14079	Q6IN85	0.73174
47209	P14079	Q05195	0.31539
47210	P14079	P86480	1.1715
47211	P14079	P49915	0.82607
47212	P14079	Q9BXN6	0.90284
47213	P14079	Q8N7Y1	1.1715
47214	P14079	O75489	0.65364
47215	P14079	Q96A65	0.23284
47216	P14079	Q9BW71	1.5495
47217	P14079	A4D263	1.0065
47218	P14079	Q71SY5	1.1024
47219	P14079	Q96PS6	1.4933
47220	P14079	Q9BWQ6	0.94085
47221	P14079	O43361	0.61922
47222	P14079	P41208	0.8237
47223	P14079	Q9NX20	1.1212
47224	P14079	P46777	1.3499
47225	P14079	Q96DN6	1.466
47226	P14079	Q8NDC4	0.20571
47227	P14079	Q5TD97	0.21928
47228	P14079	Q16626	1.0599
47229	P14079	Q8N488	0.66504
47230	P14079	Q07687	0.38856
47231	P14079	Q8N442	0.75378
47232	P14079	Q7Z3T8	0.29551
47233	P14079	Q4G0A6	1.6293
47234	P14079	P04731	0.77468
47235	P14079	Q8N5W9	1.0043
47236	P14079	P42677	1.0677
47237	P14079	O14713	1.2954
47238	P14079	Q8IYI6	0.94258
47239	P14079	A6NKF9	0.79972
47240	P14079	O14508	0.29526
47241	P14079	O14770	0.52138
47242	P14079	P13929	0.088474
47243	P14079	Q14814	0.69901
47244	P14079	Q96BT1	0.57319
47245	P14079	Q701N4	1.1715
47246	P14079	Q9H9J2	0.42492
47247	P14079	Q8N0T1	1.231
47248	P14079	P60371	1.3698
47249	P14079	Q8N9H6	0.96957
47250	P14079	Q96EK4	1.737
47251	P14079	Q53H64	1.027
47252	P14079	Q9Y5K6	0.4045
47253	P14079	Q9UKR5	1.0014
47254	P14079	P30050	0.96995
47255	P14079	Q5VUM1	0.86374
47256	P14079	Q5SY85	1.0086
47257	P14079	Q6AI08	1.0435
47258	P14079	Q5JTH9	0.74995
47259	P14079	O75920	1.8872
47260	P14079	Q9NRP2	1.5509
47261	P14079	Q902F8	1.0072
47262	P14079	Q86Y26	1.3874
47263	P14079	Q9NYF3	1.2768
47264	P14079	A2AJT9	0.90854
47265	P14079	O14645	0.35766
47266	P14079	Q0D2K3	1.359
47267	P14079	Q9Y2M2	1.0144
47268	P14079	P81877	0.76434
47269	P14079	Q9BUY5	0.93637
47270	P14079	Q9NV44	0.81779
47271	P14079	Q6NZI2	1.1701
47272	P14079	Q0VDD5	1.1715

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47274	P14079	Q86TG7	0.7057
47275	P14079	Q8TD06	0.64135
47276	P14079	Q5T4I8	0.030869
47277	P14079	Q9H4M3	0.46683
47278	P14079	Q9H7R5	0.80079
47279	P14079	Q53TS8	0.83039
47280	P14079	Q8N9M5	0.57481
47281	P14079	Q9HCX3	0.4662
47282	P14079	Q9Y2G2	0.67892
47283	P14079	Q9H4A5	1.4788
47284	P14079	Q13367	0.58338
47285	P14079	Q12933	0.49506
47286	P14079	Q6PK81	0.62253
47287	P14079	Q9P015	1.0817
47288	P14079	O60813	0.66668
47289	P14079	Q8TBF2	0.70828
47290	P14079	Q13432	0.80475
47291	P14079	Q6ZV77	1.1715
47292	P14079	Q9BS31	0.47343
47293	P14079	Q9GZW5	0.85599
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47296	P14079	O95424	1.2617
47297	P14079	Q9UJ04	0.33753
47298	P14079	Q3LI54	1.1715
47299	P14079	P17050	0.20718
47300	P14079	Q9Y366	0.35221
47301	P14079	Q8TAZ6	1.2231
47302	P14079	Q5JPF3	0.2366
47303	P14079	C9JLR9	1.2541
47304	P14079	Q96PE3	0.27686
47305	P14079	P20248	1.2785
47306	P14079	O60841	0.65335
47307	P14079	Q9BXI3	0.58523
47308	P14079	Q6ICB4	0.29473
47309	P14079	P61978	0.9111
47310	P14079	Q8TC44	0.30219
47311	P14079	A6NKU9	1.092
47312	P14079	Q14872	0.83337
47313	P14079	Q8NFB4	1.0451
47314	P14079	Q9UL03	1.5664
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47316	P14079	Q8TDD2	0.43309
47317	P14079	Q9Y6N9	0.49723
47318	P14079	Q5T7B8	0.31989
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47320	P14079	Q12789	0.97949
47321	P14079	Q5BJD5	0.79644
47322	P14079	Q8IUE0	0.28169
47323	P14079	Q8WV19	0.86513
47324	P14079	Q9NQS7	1.1689
47325	P14079	Q8N584	1.653
47326	P14079	P35227	0.62761
47327	P14079	P53602	0.84459
47328	P14079	P15927	0.65178
47329	P14079	Q63ZY3	1.0436
47330	P14079	Q7L5N1	1.2924
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47333	P14079	P27815	0.3436
47334	P14079	P31943	0.30568
47335	P14079	Q8TES7	1.0311
47336	P14079	Q6ZSS3	0.5908
47337	P14079	Q9BSC4	0.27853
47338	P14079	Q14676	0.77309
47339	P14079	Q14839	0.49367
47340	P14079	Q9Y2X8	0.61533
47341	P14079	P23610	1.1715
47342	P14079	Q2WVGJ8	1.4568
47343	P14079	Q9UKI3	0.52561
47344	P14079	Q86UT6	0.26264
47345	P14079	Q9BT43	0.59427
47346	P14079	Q8WWB7	1.1221
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47353	P14079	P20749	0.3133
47354	P14079	O75925	0.55938
47355	P14079	P15880	1.244
47356	P14079	P22532	1.1715
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47358	P14079	Q96LC9	1.0982
47359	P14079	Q86W67	0.3419
47360	P14079	Q96RS6	0.28036
47361	P14079	Q99440	0.72369
47362	P14079	P0CJ78	0.43771
47363	P14079	Q6P656	0.58401
47364	P14079	Q01850	0.92717
47365	P14079	Q9NWM3	0.56024
47366	P14079	Q9Y5R4	0.25663
47367	P14079	Q68DY1	1.0245
47368	P14079	Q9H3K2	0.19238
47369	P14079	Q92547	0.82233
47370	P14079	Q5CZC0	1.6821
47371	P14079	Q14764	1.3355
47372	P14079	P59051	0.92794
47373	P14079	A6NFU8	1.2681
47374	P14079	Q6ZTK2	0.33165
47375	P14079	Q6ICC9	1.2101
47376	P14079	Q6ZV80	1.0896
47377	P14079	Q9H9Y2	0.34874
47378	P14079	A4D0V7	1.545
47379	P14079	Q9H4B0	1.2682
47380	P14079	Q8NA54	0.37985
47381	P14079	Q9H0R1	0.3898
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47384	P14079	Q9P270	0.77824
47385	P14079	Q9NUK0	0.097805
47386	P14079	Q01081	0.48752
47387	P14079	Q9BUN1	0.99149
47388	P14079	Q9BTT4	0.75955
47389	P14079	K7EIQ3	1.7079
47390	P14079	P10515	0.2639
47391	P14079	Q9Y253	0.29773
47392	P14079	P43358	0.36435
47393	P14079	B2RXF5	0.59902
47394	P14079	Q8TC84	0.42364
47395	P14079	O14512	0.23998
47396	P14079	P35659	1.0131
47397	P14079	Q9BYJ9	1.0626
47398	P14079	P62993	0.29114
47399	P14079	O95810	0.6938
47400	P14079	Q05682	0.37576
47401	P14079	Q86TA1	0.50254
47402	P14079	Q9H8N7	0.28775
47403	P14079	B4DX44	1.0418
47404	P14079	P49427	0.51632
47405	P14079	P23193	1.2446
47406	P14079	Q9H875	0.80308
47407	P14079	Q9Y5W3	0.2338
47408	P14079	Q8N6F7	1.037
47409	P14079	Q5TYW1	0.50207
47410	P14079	Q59GN2	0.85698
47411	P14079	A0PJX8	1.2485
47412	P14079	C9JH25	1.2485
47413	P14079	Q8WZ79	0.73073
47414	P14079	Q8IXW0	0.86347
47415	P14079	Q3B820	1.2395
47416	P14079	O15525	0.48275
47417	P14079	O75394	1.0864
47418	P14079	Q96LT6	0.72651
47419	P14079	Q13158	0.686
47420	P14079	O43918	1.0025
47421	P14079	A8K0Z3	0.22727
47422	P14079	Q96PE6	0.56902
47423	P14079	Q99541	0.42649
47424	P14079	Q96AZ6	0.27591

47425	P14079	Q96S95	1.2152
47426	P14079	Q9H0A9	1.983
47427	P14079	Q7Z6Z6	0.66576
47428	P14079	P13984	0.52071
47429	P14079	Q9P1D8	1.1715
47430	P14079	O75818	0.34553
47431	P14079	P49750	0.93386
47432	P14079	Q9BYG3	0.28323
47433	P14079	P30039	0.54005
47434	P14079	Q9ULL0	1.282
47435	P14079	Q6ZVL8	1.1715
47436	P14079	O75698	1.1715
47437	P14079	Q9BPX3	0.96308
47438	P14079	P25440	0.38451
47439	P14079	O00458	1.4355
47440	P14079	Q9BZF9	0.49459
47441	P14079	P47874	0.76953
47442	P14079	Q9BTY7	0.83392
47443	P14079	Q6AWC8	1.1144
47444	P14079	Q8TDR0	1.6182
47445	P14079	Q8N554	0.1949
47446	P14079	Q86WC4	1.3944
47447	P14079	Q07627	1.1219
47448	P14079	Q7Z7H8	0.5435
47449	P14079	Q7L5A3	1.3061
47450	P14079	Q4W5P6	0.94884
47451	P14079	P38432	1.2401
47452	P14079	Q9BSK1	0.55471
47453	P14079	Q14493	1.0702
47454	P14079	P78406	0.59352
47455	P14079	Q8NE31	0.37695
47456	P14079	Q96SZ6	0.50612
47457	P14079	Q8WXE9	0.639
47458	P14079	P30260	1.34
47459	P14079	Q06323	1.14
47460	P14079	A5D6W6	1.255
47461	P14079	Q9H5L9	0.94805
47462	P14079	Q6L8H1	1.1715
47463	P14079	Q6P9G4	1.1755
47464	P14079	Q9UN79	0.80136
47465	P14079	Q9UJJ7	0.60589
47466	P14079	Q7Z6M4	1.1822
47467	P14079	Q8TAX7	1.1715
47468	P14079	P20073	0.54721
47469	P14079	O43639	0.52506
47470	P14079	P0C7Q2	0.48185
47471	P14079	P60602	1.0996
47472	P14079	Q9Y3F1	1.1715
47473	P14079	Q5T7R7	1.2485
47474	P14079	P62891	1.1719
47475	P14079	P10163	1.1715
47476	P14079	O43299	1.6886
47477	P14079	Q9UNW1	0.47791
47478	P14079	O95613	1.1964
47479	P14079	Q5T011	0.82772
47480	P14079	Q9Y5Z9	0.96105
47481	P14079	O75293	0.75297
47482	P14079	Q6PEX7	1.1591
47483	P14079	Q9ULR5	0.66885
47484	P14079	Q86VM9	0.55754
47485	P14079	P38646	0.4814
47486	P14079	Q13503	0.71015
47487	P14079	Q9UKY7	1.5263
47488	P14079	Q8N729	0.78321
47489	P14079	Q7Z4T9	0.8771
47490	P14079	Q9UII5	0.76639
47491	P14079	Q7Z401	0.36034
47492	P14079	Q96CB9	0.86615
47493	P14079	P15407	0.68498
47494	P14079	Q8TB45	0.25735
47495	P14079	Q2KHR2	0.70362
47496	P14079	Q969Q6	0.54546
47497	P14079	Q0VFX6	1.3222
47498	P14079	Q9Y4R8	0.73803
47499	P14079	Q99487	0.24435
47500	P14079	Q9NVU0	0.96822

47501	P14079	Q96FZ2	1.6109
47502	P14079	Q06455	0.60605
47503	P14079	Q8N9U0	0.12251
47504	P14079	Q8NDZ6	1.0041
47505	P14079	Q9HCG8	0.45885
47506	P14079	Q8IXM2	0.34032
47507	P14079	Q96SD1	0.26629
47508	P14079	Q8TCY5	0.76276
47509	P14079	Q9BQ87	0.46001
47510	P14079	Q9BQP7	0.62271
47511	P14079	P03923	0.88317
47512	P14079	O43747	0.85714
47513	P14079	Q8NCD3	1.0545
47514	P14079	Q96EF9	0.95381
47515	P14079	Q8N8J7	1.0453
47516	P14079	Q96LM1	1.3478
47517	P14079	Q4V326	0.33792
47518	P14079	P10599	0.25512
47519	P14079	Q5HYM0	0.49753
47520	P14079	Q9Y283	0.33296
47521	P14079	Q9C0H6	0.28511
47522	P14079	Q8IYM0	0.59546
47523	P14079	P27694	0.72229
47524	P14079	P59020	0.38345
47525	P14079	Q6RSH7	0.61897
47526	P14079	Q96M42	0.79299
47527	P14079	Q52M75	0.33278
47528	P14079	Q8N5L8	1.528
47529	P14079	P0DJ93	1.0943
47530	P14079	Q96MZ4	0.21702
47531	P14079	O60220	0.96103
47532	P14079	Q15051	0.95184
47533	P14079	Q9UBS8	0.50052
47534	P14079	Q8TD86	0.29425
47535	P14079	Q5T1J6	0.40445
47536	P14079	Q05877	1.528
47537	P14079	Q8N9R8	1.2172
47538	P14079	Q8WZA8	1.1715
47539	P14079	P28290	1.0145
47540	P14079	Q86WX3	1.3055
47541	P14079	Q8NEZ5	0.50971
47542	P14079	O43159	0.68649
47543	P14079	O75410	0.90619
47544	P14079	Q5JPI3	1.3459
47545	P14079	P63167	1.4007
47546	P14079	Q96KR1	0.86763
47547	P14079	O95456	0.67679
47548	P14079	Q00978	0.85637
47549	P14079	Q9H019	1.1992
47550	P14079	Q3YBR2	0.56875
47551	P14079	Q6PI26	1.6894
47552	P14079	Q8N8Z3	0.54286
47553	P14079	Q2M218	0.58948
47554	P14079	Q9H079	0.8672
47555	P14079	Q6GMR7	1.3551
47556	P14079	Q8WWB3	0.25478
47557	P14079	Q86WZ6	0.54153
47558	P14079	P62191	0.44962
47559	P14079	Q8N6Q8	0.90569
47560	P14079	Q9P242	1.4801
47561	P14079	Q9NNW5	0.70613
47562	P14079	Q96PQ6	1.0085
47563	P14079	P60411	1.3698
47564	P14079	O95777	0.7091
47565	P14079	P82909	0.8163
47566	P14079	Q9UGM6	0.4857
47567	P14079	Q8IYN0	0.71522
47568	P14079	Q14331	0.89597
47569	P14079	Q6UWP8	0.92298
47570	P14079	Q6ZU52	0.65732
47571	P14079	Q9H0F6	0.48379
47572	P14079	Q9UBQ0	0.9541
47573	P14079	Q7Z3B4	1.0968
47574	P14079	B4DXR9	1.0055
47575	P14079	Q16878	0.2905
47576	P14079	Q6ZU69	1.2444

47577	P14079	P29459	0.40949
47578	P14079	Q96IS3	0.265
47579	P14079	Q4V328	1.1859
47580	P14079	Q9H7H0	0.86917
47581	P14079	Q96MX3	0.50263
47582	P14079	Q9P1Y5	0.92651
47583	P14079	O75182	1.1438
47584	P14079	Q14602	0.30059
47585	P14079	Q9UM00	1.7083
47586	P14079	Q96GJ1	0.61033
47587	P14079	O43752	0.75051
47588	P14079	Q9UHT4	1.1715
47589	P14079	P82675	1.0749
47590	P14079	Q8TC76	2.1949
47591	P14079	Q6ZMW3	0.25965
47592	P14079	Q8WYQ5	0.81704
47593	P14079	Q9NZV5	0.86701
47594	P14079	Q9H582	0.1949
47595	P14079	Q9H9A5	0.33348
47596	P14079	A0PK05	1.1071
47597	P14079	A8MVS5	0.82656
47598	P14079	Q9NWW7	1.3714
47599	P14079	P00915	0.09112
47600	P14079	O75376	0.43186
47601	P14079	A6NJI1	1.149
47602	P14079	Q9Y605	2.1545
47603	P14079	A8MXY4	0.78684
47604	P14079	O43791	0.60482
47605	P14079	C9JI98	1.2485
47606	P14079	P60510	1.0237
47607	P14079	Q9ULE6	0.85079
47608	P14079	P54259	1.3385
47609	P14079	P31689	0.52933
47610	P14079	Q86XI2	1.2329
47611	P14079	Q9UK76	1.6397
47612	P14079	Q96LY2	1.4698
47613	P14079	O95563	0.93325
47614	P14079	P24310	0.93068
47615	P14079	Q9H4I3	0.42615
47616	P14079	O14529	0.33373
47617	P14079	Q6P047	0.99599
47618	P14079	Q92900	0.48983
47619	P14079	A8MWA4	1.1051
47620	P14079	Q9BT92	0.97696
47621	P14079	A5D8W1	0.38804
47622	P14079	Q6AZW8	0.57976
47623	P14079	O15042	0.23802
47624	P14079	P0C860	0.32777
47625	P14079	Q9NVM1	1.5543
47626	P14079	Q5T750	0.91588
47627	P14079	Q86YF9	0.42019
47628	P14079	Q8TC05	1.4671
47629	P14079	Q5T0J3	0.92739
47630	P14079	Q63HK5	0.32909
47631	P14079	O15260	0.44373
47632	P14079	Q8N9P0	0.97019
47633	P14079	A8MYV0	0.5863
47634	P14079	O60583	1.2949
47635	P14079	Q7Z2F6	0.86015
47636	P14079	O15078	0.86652
47637	P14079	P78317	0.38643
47638	P14079	O75478	0.41524
47639	P14079	Q09666	0.8366
47640	P14079	Q96AN5	0.83643
47641	P14079	Q86UF4	0.81869
47642	P14079	Q96F45	0.25535
47643	P14079	Q06787	1.0337
47644	P14079	O00198	1.34
47645	P14079	Q8IY18	0.36305
47646	P14079	Q8TCB0	0.38012
47647	P14079	Q5T619	0.53756
47648	P14079	Q8N9K5	0.63696
47649	P14079	Q8WW33	1.107
47650	P14079	O14579	0.81721
47651	P14079	Q9Y3E7	0.97471
47652	P14079	Q6NSH3	1.0398



47653	P14079	Q9HCI7	0.58654
47654	P14079	Q96KM6	0.29703
47655	P14079	Q86W56	0.73527
47656	P14079	Q9H972	0.98371
47657	P14079	Q6NXP0	0.45259
47658	P14079	Q495M9	0.51568
47659	P14079	Q3MJ40	0.61872
47660	P14079	Q6EMB2	0.16797
47661	P14079	Q9BW30	0.51322
47662	P14079	Q6TGC4	1.0771
47663	P14079	Q16718	0.2537
47664	P14079	Q92499	0.27658
47665	P14079	Q92896	0.76442
47666	P14079	Q96SQ5	0.61621
47667	P14079	Q6ZRP0	1.3222
47668	P14079	Q9HB21	0.27571
47669	P14079	Q9Y6Y9	0.65133
47670	P14079	Q9NZE8	1.2688
47671	P14079	Q92674	0.45874
47672	P14079	P04053	0.21992
47673	P14079	Q96FC9	0.31672
47674	P14079	Q3LHN2	1.1715
47675	P14079	Q9UKT7	0.26246
47676	P14079	Q9UIF3	0.47258
47677	P14079	Q96B26	0.52268
47678	P14079	Q96CX2	0.25699
47679	P14079	Q96BK5	0.57277
47680	P14079	Q9HCZ1	0.68687
47681	P14079	Q8IYI0	1.0541
47682	P14079	O95232	0.60528
47683	P14079	O15265	1.3286
47684	P14079	Q9Y2H8	0.60224
47685	P14079	P17014	0.57901
47686	P14079	A4QMS7	0.69189
47687	P14079	Q9H5F2	0.95058
47688	P14079	Q8WY50	1.1715
47689	P14079	O00541	0.72102
47690	P14079	Q6PGQ1	1.0619
47691	P14079	Q9UKB5	0.89575
47692	P14079	Q8TBK2	0.62058
47693	P14079	P67870	0.14264
47694	P14079	O95476	0.31656
47695	P14079	Q9P032	0.72777
47696	P14079	Q5T8I3	0.88228
47697	P14079	O60299	0.567
47698	P14079	Q8N6K4	1.1715
47699	P14079	Q99638	0.73731
47700	P14079	Q9BT30	1.1173
47701	P14079	O43687	1.0589
47702	P14079	Q02577	0.51395
47703	P14079	Q8N6S5	1.2918
47704	P14079	Q9HB96	1.1715
47705	P14079	A6NNA5	0.15259
47706	P14079	Q9UI12	0.34264
47707	P14079	Q9HD33	1.3251
47708	P14079	Q6L8G4	1.1715
47709	P14079	Q96C55	0.1949
47710	P14079	Q9NWW0	0.28036
47711	P14079	Q8IWE5	0.61701
47712	P14079	Q9H0B3	0.22519
47713	P14079	Q15928	1.0401
47714	P14079	Q4V321	0.33792
47715	P14079	P62888	0.95912
47716	P14079	Q8IW36	0.97541
47717	P14079	P19623	0.34236
47718	P14079	P46527	0.53936
47719	P14079	Q9P1T7	1.2328
47720	P14079	O43561	0.3714
47721	P14079	P03897	0.37061
47722	P14079	Q9UFV3	0.41797
47723	P14079	Q9BS92	0.20744
47724	P14079	Q502W7	1.0857
47725	P14079	Q9Y6X3	1.2207
47726	P14079	P08865	0.947
47727	P14079	Q14699	0.94946
47728	P14079	Q9BYR5	1.3698

47729	P14079	O14787	1.1507
47730	P14079	O75688	0.34197
47731	P14079	A6NJQ4	0.50122
47732	P14079	Q15486	0.86844
47733	P14079	Q9UIA9	0.78594
47734	P14079	Q5VT52	0.44811
47735	P14079	Q9NSE4	0.92993
47736	P14079	P55735	0.73364
47737	P14079	Q6ZNH5	0.64121
47738	P14079	Q14590	0.54706
47739	P14079	Q8WXF8	1.8009
47740	P14079	Q8NCN5	0.27578
47741	P14079	Q9NVV5	1.215
47742	P14079	Q9Y4C2	1.572
47743	P14079	Q96AV8	0.24141
47744	P14079	Q9NPA5	0.31665
47745	P14079	Q709C8	0.98802
47746	P14079	Q9H8K7	1.097
47747	P14079	Q9HBU9	0.95511
47748	P14079	Q8N5Z5	0.11489
47749	P14079	Q96BY9	0.73316
47750	P14079	P62837	0.61533
47751	P14079	Q14584	0.6355
47752	P14079	Q70YC4	1.356
47753	P14079	Q14011	0.30813
47754	P14079	P41162	0.39136
47755	P14079	Q9UQE7	0.26751
47756	P14079	Q0P140	1.0897
47757	P14079	Q13155	0.64833
47758	P14079	Q8ND07	1.2418
47759	P14079	Q15562	0.76782
47760	P14079	Q7Z7B7	1.4082
47761	P14079	Q8N1K5	1.2536
47762	P14079	Q86T75	1.2315
47763	P14079	Q5JSZ5	1.6357
47764	P14079	O75132	0.54692
47765	P14079	Q8WUW1	0.5375
47766	P14079	Q0ZLH3	0.98547
47767	P14079	Q8N988	1.0415
47768	P14079	Q13069	0.33792
47769	P14079	Q8N511	1.181
47770	P14079	A1L443	1.8285
47771	P14079	Q9UKI9	1.125
47772	P14079	Q5BKY9	1.3222
47773	P14079	Q8N371	0.28706
47774	P14079	A8MXK9	1.0599
47775	P14079	Q9Y3P4	1.3186
47776	P14079	Q5BKY1	0.34053
47777	P14079	O15067	0.86107
47778	P14079	O75607	0.78487
47779	P14079	Q9P2K1	0.65575
47780	P14079	Q2TAA8	0.63289
47781	P14079	Q15493	0.22702
47782	P14079	Q9UPR3	0.99648
47783	P14079	P36508	0.19861
47784	P14079	P15884	0.58656
47785	P14079	P56381	0.56918
47786	P14079	Q1ED39	1.6655
47787	P14079	Q9NRD1	0.25467
47788	P14079	Q9H607	0.6802
47789	P14079	Q9H0K4	1.3497
47790	P14079	Q96AW1	1.0095
47791	P14079	Q8IYF1	0.73891
47792	P14079	Q8WV92	0.63707
47793	P14079	Q8WXX7	1.0321
47794	P14079	P78414	0.24936
47795	P14079	Q5TA45	0.24462
47796	P14079	Q99504	0.37888
47797	P14079	Q6N069	0.22485
47798	P14079	P15954	0.80284
47799	P14079	Q99439	0.28032
47800	P14079	B8ZZ34	0.85881
47801	P14079	Q5VWN6	0.70296
47802	P14079	Q96QU4	1.4627
47803	P14079	Q13515	0.71659
47804	P14079	P55769	0.95127

47805	P14079	Q9NR55	0.33566
47806	P14079	A6NHY6	0.83592
47807	P14079	Q96LR7	1.3492
47808	P14079	Q9H3M7	0.77713
47809	P14079	Q9P127	1.0058
47810	P14079	P78545	0.96817
47811	P14079	O60885	0.84975
47812	P14079	Q8IV54	0.65487
47813	P14079	Q9BSE2	1.2485
47814	P14079	P82673	0.42865
47815	P14079	Q13164	0.22996
47816	P14079	Q4KMX7	0.42881
47817	P14079	P42025	0.55528
47818	P14079	P41134	0.37184
47819	P14079	P59998	0.51342
47820	P14079	Q9BX40	1.3349
47821	P14079	Q53GL7	0.70576
47822	P14079	O14972	0.65935
47823	P14079	Q53H82	0.24685
47824	P14079	Q96M19	1.1715
47825	P14079	Q9BRH9	0.6446
47826	P14079	Q03468	0.35882
47827	P14079	P78395	1.2703
47828	P14079	Q7Z4H7	0.99639
47829	P14079	P49454	0.63791
47830	P14079	Q17RG1	0.18591
47831	P14079	Q9BVS5	0.69481
47832	P14079	Q4G0X4	0.18591
47833	P14079	Q7Z5V6	1.07
47834	P14079	Q96SA4	0.98083
47835	P14079	O95886	0.66785
47836	P14079	Q7Z7G2	0.96679
47837	P14079	Q96B36	1.4131
47838	P14079	Q8IWB4	1.3668
47839	P14079	Q5JU67	0.27365
47840	P14079	Q9NQC8	0.29688
47841	P14079	P18669	0.96654
47842	P14079	Q9BQ70	1.1757
47843	P14079	P53675	0.44178
47844	P14079	P53672	1.342
47845	P14079	Q5SQ13	0.41385
47846	P14079	Q9NZJ0	0.75845
47847	P14079	O75204	1.2525
47848	P14079	Q92543	0.19276
47849	P14079	Q9NZ63	1.1793
47850	P14079	Q9H9E3	0.77803
47851	P14079	Q9BTP7	1.3249
47852	P14079	Q5XKP0	0.86282
47853	P14079	Q6IPR1	0.69293
47854	P14079	Q2M3C7	0.69688
47855	P14079	Q9H8G1	1.0416
47856	P14079	Q8N137	1.1318
47857	P14079	O75154	0.93282
47858	P14079	A5PL33	1.4259
47859	P14079	P51397	1.073
47860	P14079	Q92466	0.67782
47861	P14079	Q96GM8	0.54697
47862	P14079	Q9NVA1	0.8146
47863	P14079	A6NJB7	1.4513
47864	P14079	P15941	0.62212
47865	P14079	Q9NQV7	0.61787
47866	P14079	Q9BUV0	1.3222
47867	P14079	O75884	1.7845
47868	P14079	Q8IYE1	0.10982
47869	P14079	Q3LHN1	1.1715
47870	P14079	Q9NZV7	1.0397
47871	P14079	A8MW95	0.18893
47872	P14079	P38935	0.28933
47873	P14079	Q69YZ2	1.0911
47874	P14079	Q14137	1.0331
47875	P14079	Q96JB5	0.48919
47876	P14079	Q16589	0.51813
47877	P14079	Q86SH2	0.85922
47878	P14079	Q9HBZ2	0.32463
47879	P14079	P12004	0.31204
47880	P14079	Q9Y3C5	0.47703

47881	P14079	P0CG33	0.65403
47882	P14079	P12757	0.4993
47883	P14079	Q9Y3E0	0.63707
47884	P14079	Q9GZR5	0.61366
47885	P14079	Q8IXS0	1.3222
47886	P14079	A6NG73	0.53464
47887	P14079	Q96EV8	0.24444
47888	P14079	P42166	0.66295
47889	P14079	Q15011	1.1862
47890	P14079	O14521	0.95483
47891	P14079	I3L273	0.64251
47892	P14079	P61927	1.1915
47893	P14079	Q9P2B7	1.3222
47894	P14079	P48378	0.81485
47895	P14079	Q9Y5V0	1.0887
47896	P14079	Q9HAH1	0.8897
47897	P14079	Q96DX8	0.44125
47898	P14079	O14948	0.36877
47899	P14079	Q6IC83	0.43269
47900	P14079	Q9NRP0	0.75027
47901	P14079	P52597	0.35545
47902	P14079	O43920	1.105
47903	P14079	Q96MC5	0.18792
47904	P14079	O60516	0.52655
47905	P14079	P62633	0.54488
47906	P14079	O43390	0.47614
47907	P14079	Q14397	0.67702
47908	P14079	P60606	1.1353
47909	P14079	Q5MJ09	0.94021
47910	P14079	Q9P021	0.5684
47911	P14079	Q9Y2A0	1.0097
47912	P14079	Q6UE05	1.2485
47913	P14079	O15015	0.77928
47914	P14079	P04732	0.74382
47915	P14079	Q9UHA2	0.75785
47916	P14079	Q9UBA6	0.0072542
47917	P14079	Q8NCS4	1.2485
47918	P14079	Q96CB5	0.28199
47919	P14079	Q9Y2B4	0.52313
47920	P14079	Q96M66	0.62927
47921	P14079	Q5VUG0	0.4217
47922	P14079	O95670	0.33047
47923	P14079	Q9NRY2	1.3328
47924	P14079	Q7KZF4	0.95706
47925	P14079	A6NGG8	1.1324
47926	P14079	P62917	1.2356
47927	P14079	P09234	0.70688
47928	P14079	Q6ZSR9	0.38618
47929	P14079	Q02386	0.52686
47930	P14079	Q6ZV56	1.1715
47931	P14079	Q5JQS6	0.90873
47932	P14079	Q9BX70	0.78093
47933	P14079	Q9H2L5	1.3389
47934	P14079	Q99598	0.48144
47935	P14079	P81274	0.65749
47936	P14079	Q8N3X1	0.58099
47937	P14079	Q8N2M8	1.5721
47938	P14079	Q6ZV60	1.1715
47939	P14079	Q9BYQ6	1.3698
47940	P14079	P61567	0.89911
47941	P14079	Q6UWH6	0.75507
47942	P14079	O75381	0.92958
47943	P14079	Q9H0V9	0.5884
47944	P14079	O15239	0.85656
47945	P14079	Q676U5	0.85706
47946	P14079	Q96MG7	0.75772
47947	P14079	Q6NVU6	0.77363
47948	P14079	Q9GZY8	0.74641
47949	P14079	Q9BT25	0.84907
47950	P14079	Q9H1Z4	0.42364
47951	P14079	P49321	1.2541
47952	P14079	Q9NS86	0.89463
47953	P14079	P08670	0.67998
47954	P14079	O43493	1.3864
47955	P14079	Q9HAV4	1.3593
47956	P14079	P07902	1.0429

47957	P14079	Q96MP8	0.30217
47958	P14079	Q8IWS0	0.49861
47959	P14079	O00762	0.56632
47960	P14079	Q9H5P4	0.57823
47961	P14079	A6NEH8	0.79147
47962	P14079	O15226	0.88662
47963	P14079	P0DI80	0.99732
47964	P14079	Q96DM1	1.3329
47965	P14079	Q5VSL9	1.2993
47966	P14079	Q5D0E6	1.3835
47967	P14079	O43504	0.57711
47968	P14079	O94817	0.77481
47969	P14079	Q9Y3B7	1.448
47970	P14079	Q6W0C5	0.79124
47971	P14079	O15182	0.61917
47972	P14079	Q8IZ20	0.1949
47973	P14079	Q99615	0.94133
47974	P14079	Q96N38	1.0078
47975	P14079	P21695	0.23566
47976	P14079	Q8NBD8	1.3453
47977	P14079	Q14687	0.56221
47978	P14079	Q9P1A6	0.40933
47979	P14079	Q9P2B4	0.5316
47980	P14079	O95602	0.65753
47981	P14079	Q8N398	1.0259
47982	P14079	Q9HCN2	1.1715
47983	P14079	P0CG00	0.4186
47984	P14079	P61568	0.91326
47985	P14079	O75347	1.6299
47986	P14079	H0YL14	1.2438
47987	P14079	Q96AA3	0.75495
47988	P14079	Q96G21	1.0268
47989	P14079	Q9BRT6	1.2134
47990	P14079	Q6P2H3	0.8317
47991	P14079	Q969H9	1.1715
47992	P14079	Q96EK6	0.79959
47993	P14079	Q8NBL1	0.2531
47994	P14079	Q9HC07	0.70465
47995	P14079	Q15910	0.41492
47996	P14079	P23526	0.06411
47997	P14079	A6NJ08	0.44102
47998	P14079	Q68CP9	0.57407
47999	P14079	Q5SY13	1.1715
48000	P14079	P30305	0.61999
48001	P14079	Q8IUI8	0.24637
48002	P14079	Q12872	1.1231
48003	P14079	Q9BXL5	0.56169
48004	P14079	Q5SRD1	0.66747
48005	P14079	Q6UW49	0.84301
48006	P14079	Q8NHQ1	1.6759
48007	P14079	P49023	0.22044
48008	P14079	Q96Q11	0.72477
48009	P14079	Q5VZ46	0.8317
48010	P14079	P56279	1.4567
48011	P14079	Q9BU64	0.79525
48012	P14079	Q96MT0	0.5188
48013	P14079	Q15008	0.53113
48014	P14079	Q16625	0.27078
48015	P14079	Q9UMY4	0.30859
48016	P14079	Q9NUP1	0.82799
48017	P14079	Q5VWP2	0.77554
48018	P14079	Q5MNV8	1.1154
48019	P14079	Q9NS93	1.0843
48020	P14079	Q9NZF1	0.54531
48021	P14079	Q9NZH4	1.0343
48022	P14079	Q6NZ67	1.1772
48023	P14079	Q00765	0.20445
48024	P14079	Q9Y2R0	1.1307
48025	P14079	Q9H0V1	1.1456
48026	P14079	O75351	0.34578
48027	P14079	O60269	0.94916
48028	P14079	Q9NQ87	0.34239
48029	P14079	Q13761	0.72016
48030	P14079	Q5JR59	1.5282
48031	P14079	Q9UJP4	0.23093
48032	P14079	Q02556	0.38123

48033	P14079	P49773	0.15016
48034	P14079	O60356	1.3652
48035	P14079	Q6UX65	0.91469
48036	P14079	P26678	1.0711
48037	P14079	Q5T7N8	0.58699
48038	P14079	Q9P0J6	1.1765
48039	P14079	Q8WWR9	1.0802
48040	P14079	P24928	0.77418
48041	P14079	Q96TA1	0.48639
48042	P14079	P04264	0.83522
48043	P14079	Q8IU81	0.17242
48044	P14079	Q9H5Q4	0.98288
48045	P14079	Q6PKG0	0.7217
48046	P14079	O75638	2.0085
48047	P14079	P11137	0.37648
48048	P14079	Q6ZN68	1.1385
48049	P14079	Q9NV92	0.57166
48050	P14079	Q86VW0	0.49719
48051	P14079	Q68D51	0.15996
48052	P14079	Q8N7B1	1.1865
48053	P14079	Q03052	0.3383
48054	P14079	Q13829	0.63207
48055	P14079	Q6U949	1.1715
48056	P14079	Q53SZ7	1.3222
48057	P14079	Q14558	0.29872
48058	P14079	Q5BLP8	0.98371
48059	P14079	E9PQX1	0.65653
48060	P14079	Q68CZ6	0.74419
48061	P14079	Q9NSK0	0.32818
48062	P14079	Q9Y2P8	0.88776
48063	P14079	Q96G03	1.0299
48064	P14079	P80723	1.4509
48065	P14079	Q9ULM6	0.81919
48066	P14079	Q13395	0.18527
48067	P14079	P42773	0.53314
48068	P14079	Q8NEA6	0.37626
48069	P14079	O75665	0.995
48070	P14079	Q8N1G4	0.49474
48071	P14079	P61566	0.77952
48072	P14079	Q96MR7	1.6542
48073	P14079	P30153	0.65571
48074	P14079	Q1RMZ1	1.0134
48075	P14079	Q8N9Z9	0.96871
48076	P14079	Q8N184	0.6226
48077	P14079	Q15369	1.4771
48078	P14079	P46778	0.86734
48079	P14079	Q96A09	1.0411
48080	P14079	Q9P2N5	0.45404
48081	P14079	Q13895	0.8551
48082	P14079	Q9NPC7	0.47342
48083	P14079	P62249	1.041
48084	P14079	Q96K58	0.53274
48085	P14079	O95201	0.77928
48086	P14079	A8MWP6	1.1715
48087	P14079	Q9NWB1	0.29393
48088	P14079	Q69YI7	1.9808
48089	P14079	P0C2W7	1.1715
48090	P14079	Q8IY42	1.7396
48091	P14079	Q6ZW61	0.39428
48092	P14079	Q52LD8	1.0449
48093	P14079	Q7Z4V5	0.12814
48094	P14079	Q9Y6F6	1.0148
48095	P14079	Q9H7S9	0.82104
48096	P14079	A6NMC2	0.23582
48097	P14079	Q9HB65	0.5511
48098	P14079	Q3KRA6	1.8872
48099	P14079	Q8IYX7	1.6142
48100	P14079	Q9BRV8	0.77377
48101	P14079	P13928	0.1776
48102	P14079	Q6UXP7	0.58236
48103	P14079	Q9NWW5	0.72955
48104	P14079	Q8NBA8	0.78495
48105	P14079	Q6ZSG2	1.2582
48106	P14079	P0DI82	0.58206
48107	P14079	Q9H7T3	1.1029
48108	P14079	Q12824	0.97423

48109	P14079	P49754	0.55406
48110	P14079	Q6PI97	0.8805
48111	P14079	P43686	0.42227
48112	P14079	Q8IYE0	1.4415
48113	P14079	P48553	0.50402
48114	P14079	P10589	0.51812
48115	P14079	Q5EBL2	0.47388
48116	P14079	Q9BRQ3	1.3548
48117	P14079	A8MWS5	0.094263
48118	P14079	A2A288	1.1916
48119	P14079	Q96MG2	0.9579
48120	P14079	P51816	0.844
48121	P14079	P78345	1.5053
48122	P14079	Q9Y4K1	1.2574
48123	P14079	O15091	0.18283
48124	P14079	Q99471	0.85964
48125	P14079	Q8N4K4	0.98613
48126	P14079	Q96BR6	0.91027
48127	P14079	Q96JB2	0.96024
48128	P14079	Q86WI3	0.61196
48129	P14079	Q8N8D7	1.2144
48130	P14079	Q6PF04	0.58172
48131	P14079	P42575	0.3597
48132	P14079	Q0PNE2	1.0526
48133	P14079	Q12904	0.34908
48134	P14079	Q9NUS5	0.78027
48135	P14079	O14617	0.28225
48136	P14079	Q96CD2	0.28535
48137	P14079	Q13469	1.0596
48138	P14079	Q2V2M9	0.49226
48139	P14079	Q5VVS0	1.4691
48140	P14079	Q8WZB0	0.1848
48141	P14079	P06703	0.28251
48142	P14079	Q9NZZ3	1.1966
48143	P14079	Q9UKA2	0.44847
48144	P14079	P59074	0.28141
48145	P14079	Q8NEL0	0.39442
48146	P14079	A8MWC7	0.40984
48147	P14079	Q96KF2	1.1715
48148	P14079	Q9Y234	0.73817
48149	P14079	Q93074	0.61282
48150	P14079	Q9BUG6	0.53728
48151	P14079	O00425	0.4506
48152	P14079	Q99081	0.30875
48153	P14079	Q96F05	0.96431
48154	P14079	P58107	0.25262
48155	P14079	P51003	0.4016
48156	P14079	Q9C0G0	0.1949
48157	P14079	Q9BU68	1.3629
48158	P14079	P54098	0.73069
48159	P14079	Q969W9	1.1905
48160	P14079	Q43790	1.0109
48161	P14079	Q8IW03	0.36274
48162	P14079	Q5FWE3	1.2485
48163	P14079	Q2NKX9	1.3222
48164	P14079	Q13347	0.84637
48165	P14079	Q8N1N2	1.098
48166	P14079	Q01831	0.89757
48167	P14079	O43242	0.74956
48168	P14079	Q86V48	1.7373
48169	P14079	Q6B0B8	0.94313
48170	P14079	Q03393	0.39044
48171	P14079	Q6ZTR5	0.96725
48172	P14079	Q499Z4	0.61432
48173	P14079	Q8TBC3	0.18591
48174	P14079	A2RRL7	0.95768
48175	P14079	Q8NHV5	0.46842
48176	P14079	O14503	0.91914
48177	P14079	Q8WVIO	1.2916
48178	P14079	Q9Y3B9	0.94247
48179	P14079	Q9Y676	1.2292
48180	P14079	Q96A57	1.2485
48181	P14079	P62826	0.81358
48182	P14079	O43399	0.73148
48183	P14079	P25788	1.1793
48184	P14079	Q15154	0.96547

48185	P14079	Q7L945	0.7079
48186	P14079	P17040	0.74724
48187	P14079	O95361	0.31586
48188	P14079	Q9P2N6	0.85702
48189	P14079	Q8TD10	0.12251
48190	P14079	P63208	0.80456
48191	P14079	P82930	1.4302
48192	P14079	Q9H2M3	0.24202
48193	P14079	Q6IQ32	0.35383
48194	P14079	P98182	0.37529
48195	P14079	Q8N7R7	0.29414
48196	P14079	P09467	0.18009
48197	P14079	Q86VY4	0.51106
48198	P14079	Q96DV4	0.48692
48199	P14079	Q6DN90	0.21773
48200	P14079	P43364	0.986
48201	P14079	Q9GZV8	0.14398
48202	P14079	Q15004	0.99932
48203	P14079	Q9UJT9	0.40806
48204	P14079	Q9BRT7	1.1715
48205	P14079	Q7Z353	0.24936
48206	P14079	Q8TAF3	0.92057
48207	P14079	P0DI81	1.0187
48208	P14079	Q12996	0.24687
48209	P14079	P49116	0.54187
48210	P14079	O75436	0.91783
48211	P14079	Q9BQ83	0.92854
48212	P14079	Q12768	0.61386
48213	P14079	Q92796	0.42346
48214	P14079	Q9H7C9	0.096766
48215	P14079	P07315	0.75753
48216	P14079	Q8TD17	0.49238
48217	P14079	Q5VXH4	0.68944
48218	P14079	P09661	0.65844
48219	P14079	Q5J8M3	0.66992
48220	P14079	O76031	1.2054
48221	P14079	Q969Q0	0.49586
48222	P14079	P02144	0.35657
48223	P14079	O00167	0.45324
48224	P14079	Q6UXB1	1.0714
48225	P14079	Q9BXW7	0.51221
48226	P14079	Q7L1Q6	0.42018
48227	P14079	Q9ULE4	0.84924
48228	P14079	Q9UHD1	0.2552
48229	P14079	Q13465	0.15933
48230	P14079	P04733	0.74382
48231	P14079	B3EWG5	1.3222
48232	P14079	O95260	0.07708
48233	P14079	Q8NCF5	0.53807
48234	P14079	Q3SYG4	1.0405
48235	P14079	P61165	1.2098
48236	P14079	Q14197	0.28117
48237	P14079	Q8N187	1.3571
48238	P14079	Q9H3H1	1.2564
48239	P14079	Q8N5H3	1.3222
48240	P14079	Q9BYR0	1.3698
48241	P14079	Q9UKN5	0.44064
48242	P14079	O14802	0.30928
48243	P14079	A0AVK6	0.23824
48244	P14079	Q9NPJ4	2.1195
48245	P14079	O14576	0.62893
48246	P14079	Q8WYN3	1.0932
48247	P14079	Q9NZN8	0.62429
48248	P14079	O00231	0.91737
48249	P14079	Q13616	0.90417
48250	P14079	Q9H7B2	1.2354
48251	P14079	Q9P2G1	0.47474
48252	P14079	O95273	1.4627
48253	P14079	Q5TA76	1.1715
48254	P14079	Q5T4T6	1.5167
48255	P14079	Q9Y2L8	0.97673
48256	P14079	Q5W111	0.40158
48257	P14079	O00479	1.5162
48258	P14079	Q9H2L4	0.86848
48259	P14079	Q01469	0.23959
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48261	P14079	P59090	1.1715
48262	P14079	P13994	0.61194
48263	P14079	P05386	1.3548
48264	P14079	Q53S58	1.2485
48265	P14079	Q9H478	0.6572
48266	P14079	Q96N28	0.52805
48267	P14079	Q5U4N7	1.1715
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48269	P14079	O75505	0.24936
48270	P14079	Q5U5X0	1.5744
48271	P14079	Q8IYB1	0.78965
48272	P14079	Q96GX2	1.3048
48273	P14079	P50402	0.82475
48274	P14079	E5RQL4	0.90413
48275	P14079	A6NK39	0.51953
48276	P14079	O15055	0.2505
48277	P14079	Q9BY89	0.59638
48278	P14079	Q5XKR9	1.4417
48279	P14079	P52701	0.071543
48280	P14079	Q9BT49	1.251
48281	P14079	P23284	0.45927
48282	P14079	Q96SW2	0.53413
48283	P14079	Q6PJP8	0.65361
48284	P14079	Q9NV39	1.1263
48285	P14079	Q8NF91	0.7265
48286	P14079	O15318	1.3734
48287	P14079	P28066	1.0649
48288	P14079	Q53GL0	0.31187
48289	P14079	Q86X67	0.1685
48290	P14079	O95600	0.1949
48291	P14079	P05412	0.69047
48292	P14079	P49588	0.3369
48293	P14079	Q9Y5A9	0.90872
48294	P14079	P35268	1.1731
48295	P14079	Q7L4S7	0.9976
48296	P14079	Q9H7E9	1.3222
48297	P14079	Q8IZS6	0.29307
48298	P14079	Q14929	0.57629
48299	P14079	Q5RGN0	1.2315
48300	P14079	O95486	0.5833
48301	P14079	Q0VD67	0.51792
48302	P14079	O95678	0.96275
48303	P14079	Q6UX04	0.17257
48304	P14079	Q15650	0.89143
48305	P14079	Q9BTK2	0.95937
48306	P14079	P83916	0.92361
48307	P14079	Q96SK2	1.0541
48308	P14079	Q29RF7	1.0435
48309	P14079	Q96N77	0.63598
48310	P14079	Q9Y5P8	0.97899
48311	P14079	Q14232	0.3442
48312	P14079	Q13371	0.60581
48313	P14079	Q5T9G4	1.6704
48314	P14079	Q9BRA2	0.58615
48315	P14079	Q15466	0.52952
48316	P14079	Q494X1	0.85319
48317	P14079	Q12901	0.77985
48318	P14079	Q8WUU5	0.2657
48319	P14079	A4D0Y5	1.1715
48320	P14079	Q5T5S1	0.96683
48321	P14079	Q96JY0	0.34297
48322	P14079	Q9NPB6	0.84441
48323	P14079	Q9H6S1	0.040636
48324	P14079	Q96K80	0.48141
48325	P14079	Q8IWF6	1.103
48326	P14079	Q6NX45	0.54513
48327	P14079	Q13569	1.0831
48328	P14079	Q86VP6	0.59636
48329	P14079	Q53G59	0.36217
48330	P14079	P0CW24	0.63681
48331	P14079	Q9BZX4	0.39663
48332	P14079	Q9Y294	0.97527
48333	P14079	Q8TBQ9	1.2188
48334	P14079	Q9H444	1.0092
48335	P14079	Q86XR8	1.2032
48336	P14079	Q9UL46	0.79475

48337	P14079	Q8WW27	0.41182
48338	P14079	Q92845	0.38197
48339	P14079	P04424	0.22289
48340	P14079	B7ZAP0	0.16319
48341	P14079	Q7Z3B0	1.2485
48342	P14079	P13682	0.60953
48343	P14079	P04792	0.44966
48344	P14079	O15382	0.20063
48345	P14079	Q86XN6	0.7875
48346	P14079	Q96KC9	1.156
48347	P14079	C9JQI7	1.0446
48348	P14079	Q96KQ4	1.0437
48349	P14079	Q9BRG1	1.2337
48350	P14079	A6NJL1	0.433
48351	P14079	Q9NXR1	0.44827
48352	P14079	A6NJR5	1.092
48353	P14079	Q6P589	0.59722
48354	P14079	Q9Y6B2	1.0479
48355	P14079	Q9Y2D8	0.90028
48356	P14079	Q96LB3	0.77709
48357	P14079	Q9NWS6	1.2099
48358	P14079	Q5VV17	0.32224
48359	P14079	Q9BS40	0.72292
48360	P14079	O00244	0.34485
48361	P14079	Q5HYW2	1.4755
48362	P14079	Q9GZY4	0.76052
48363	P14079	P50748	0.97641
48364	P14079	O96020	1.3119
48365	P14079	Q9UHD9	0.89246
48366	P14079	Q2TAP0	1.074
48367	P14079	Q9BSG1	0.89445
48368	P14079	Q9HBF4	0.38968
48369	P14079	Q12888	0.76442
48370	P14079	Q9UEY8	0.36953
48371	P14079	Q9GZN1	0.30313
48372	P14079	Q8N1L1	1.1715
48373	P14079	Q8N1W2	0.41707
48374	P14079	Q96KF7	1.2485
48375	P14079	P0C7T4	1.1715
48376	P14079	Q86VQ1	0.69657
48377	P14079	P0DKX0	0.93942
48378	P14079	Q8NEJ9	0.95563
48379	P14079	Q9BPZ7	1.0698
48380	P14079	Q8NCX0	0.82953
48381	P14079	O96015	0.13595
48382	P14079	Q7Z5G4	0.081494
48383	P14079	A1L4L8	0.9941
48384	P14079	A8MVP8	0.57465
48385	P14079	O75330	0.69157
48386	P14079	P17661	0.86222
48387	P14079	Q8WW35	0.56221
48388	P14079	Q8IYS2	1.2485
48389	P14079	Q96B42	1.2793
48390	P14079	Q5U623	1.0343
48391	P14079	Q9H3H9	1.3282
48392	P14079	Q9Y3R5	1.1776
48393	P14079	O15499	0.17194
48394	P14079	Q8IZ40	0.5655
48395	P14079	A8MYA2	0.84926
48396	P14079	O15084	1.0339
48397	P14079	P62913	1.2436
48398	P14079	Q12769	1.1446
48399	P14079	Q9BW60	0.77014
48400	P14079	P0C7Q3	0.20861
48401	P14079	P15621	0.97355
48402	P14079	O95235	0.26822
48403	P14079	Q9HD40	0.63347
48404	P14079	Q13526	0.66011
48405	P14079	O75794	1.4757
48406	P14079	Q8N9Y4	1.4003
48407	P14079	A6NL82	0.91687
48408	P14079	A2VCL2	0.012635
48409	P14079	Q8IXP5	1.3222
48410	P14079	Q96PC3	0.53718
48411	P14079	Q9H609	0.1949
48412	P14079	P41214	0.96826

48413	P14079	Q9Y6X9	0.30533
48414	P14079	P36551	0.51446
48415	P14079	Q5VZV4	1.3564
48416	P14079	Q9UHHJ3	0.4217
48417	P14079	Q9P2F5	0.98034
48418	P14079	Q86Y37	0.18775
48419	P14079	P04259	0.96294
48420	P14079	Q9UH99	0.36872
48421	P14079	P10242	1.0047
48422	P14079	P49368	0.20734
48423	P14079	Q9Y4A8	0.51752
48424	P14079	Q6P1J9	0.65062
48425	P14079	Q9UM07	0.85846
48426	P14079	Q9UJU3	0.45921
48427	P14079	P40925	0.53087
48428	P14079	Q7Z2X4	0.26533
48429	P14079	Q99698	0.33817
48430	P14079	Q5T6F0	0.29528
48431	P14079	Q9Y2D4	0.065533
48432	P14079	Q9H0E2	0.32328
48433	P14079	Q16543	0.51074
48434	P14079	P02545	1.0341
48435	P14079	P56524	0.40413
48436	P14079	Q6P1K8	0.48284
48437	P14079	Q6UXV1	0.9137
48438	P14079	Q5F1R6	0.22664
48439	P14079	Q8TCZ7	1.0031
48440	P14079	A8MYX2	0.29906
48441	P14079	Q15361	0.91731
48442	P14079	O14813	0.3514
48443	P14079	Q14671	0.29662
48444	P14079	Q9H7L9	0.60772
48445	P14079	P51398	1.3991
48446	P14079	Q2YD98	0.85599
48447	P14079	Q7RTP0	1.2835
48448	P14079	Q7RTU3	0.42542
48449	P14079	O60930	0.6524
48450	P14079	Q6BDS2	1.0765
48451	P14079	A6NEQ9	1.1715
48452	P14079	Q9UHN1	0.47606
48453	P14079	Q8TF08	1.0799
48454	P14079	Q96S19	0.67085
48455	P14079	Q15021	0.8373
48456	P14079	Q6ZTY8	0.45451
48457	P14079	Q8IXS8	1.5286
48458	P14079	Q8ND99	0.94323
48459	P14079	Q6PI48	1.313
48460	P14079	Q96MY1	1.567
48461	P14079	P50440	0.79588
48462	P14079	Q96S59	1.0009
48463	P14079	Q13127	0.50538
48464	P14079	Q9P000	0.69689
48465	P14079	Q9H7X2	1.2485
48466	P14079	Q9Y6R9	1.3453
48467	P14079	P53801	1.6318
48468	P14079	Q96AQ2	1.2485
48469	P14079	Q3LI73	1.37
48470	P14079	P99999	0.6508
48471	P14079	Q9NVE4	0.7456
48472	P14079	Q92529	0.31669
48473	P14079	Q6ZWJ1	0.25736
48474	P14079	P0DMB2	0.9729
48475	P14079	Q9Y426	0.86782
48476	P14079	Q9GZR1	0.29531
48477	P14079	Q0VDI3	0.93342
48478	P14079	Q8N6K0	1.2485
48479	P14079	Q09028	0.54109
48480	P14079	O75030	0.4973
48481	P14079	O95411	1.1715
48482	P14079	Q13015	1.1588
48483	P14079	P49789	0.50878
48484	P14079	Q16864	0.25856
48485	P14079	Q9Y2B0	0.26545
48486	P14079	Q52M93	0.44666
48487	P14079	Q9H2T7	0.71681
48488	P14079	H0Y354	1.1532

48489	P14079	P49716	0.39819
48490	P14079	Q6ZQV5	0.77845
48491	P14079	Q8N983	0.81151
48492	P14079	Q96QD9	1.0012
48493	P14079	Q96FX8	1.371
48494	P14079	Q9NQM4	0.37406
48495	P14079	Q86UP9	1.4314
48496	P14079	Q06416	0.28169
48497	P14079	Q6IEE7	1.5917
48498	P14079	Q6ZNG1	0.80079
48499	P14079	Q9BXP5	1.1551
48500	P14079	Q99816	0.51931
48501	P14079	Q96DT7	0.25992
48502	P14079	Q96IT1	0.80141
48503	P14079	Q8WYR4	0.41342
48504	P14079	Q9NVS2	1.3164
48505	P14079	Q9BX66	0.5448
48506	P14079	Q9NRC8	1.1295
48507	P14079	Q9UK61	1.153
48508	P14079	Q6ZSJ8	1.3222
48509	P14079	P25490	0.27672
48510	P14079	O43172	0.61022
48511	P14079	Q86XT9	1.2094
48512	P14079	Q9UM63	0.46138
48513	P14079	Q16514	0.77274
48514	P14079	Q86SH4	1.1715
48515	P14079	P49639	0.22592
48516	P14079	P54840	0.72704
48517	P14079	Q9P2W9	0.43891
48518	P14079	Q504U0	0.61075
48519	P14079	P05387	0.86734
48520	P14079	A6NE21	0.57067
48521	P14079	O95619	0.73892
48522	P14079	Q8N5U0	1.1715
48523	P14079	Q14457	0.74447
48524	P14079	Q9Y530	0.92331
48525	P14079	Q6P2S7	0.45533
48526	P14079	P57060	0.88455
48527	P14079	P0DM63	1.3504
48528	P14079	Q5VXD3	0.38652
48529	P14079	Q5T440	0.75391
48530	P14079	Q96QU8	1.06
48531	P14079	Q9UMY1	1.6598
48532	P14079	Q9Y2G5	0.63446
48533	P14079	P52756	0.2354
48534	P14079	Q5TAB7	1.1416
48535	P14079	Q6ZR93	1.1715
48536	P14079	Q9NRH1	0.75101
48537	P14079	Q8IYL2	1.215
48538	P14079	Q6DHV5	0.74624
48539	P14079	O60238	0.51962
48540	P14079	Q16534	0.67324
48541	P14079	Q9BY60	0.25965
48542	P14079	Q96HE8	1.0454
48543	P14079	O43819	0.51556
48544	P14079	Q2M3W8	1.0323
48545	P14079	Q9BYP8	1.1715
48546	P14079	O75494	0.54516
48547	P14079	Q8N814	1.5319
48548	P14079	Q9UKD2	0.28
48549	P14079	Q9UBX2	0.25626
48550	P14079	B1AL46	1.8041
48551	P14079	O15355	0.83255
48552	P14079	Q6UXD1	1.2485
48553	P14079	Q6ZVN6	0.70081
48554	P14079	O14598	1.445
48555	P14079	Q96HM7	1.4207
48556	P14079	Q9Y536	0.13659
48557	P14079	P50616	0.50727
48558	P14079	Q86XE5	1.167
48559	P14079	Q7Z7A3	0.92707
48560	P14079	Q6PEY1	1.5919
48561	P14079	Q9BUX1	1.0162
48562	P14079	Q9UBQ5	1.0646
48563	P14079	Q9H1D9	0.70875
48564	P14079	P61247	1.2837

48565	P14079	Q6ZRQ5	0.77501
48566	P14079	Q8NFP0	1.0653
48567	P14079	Q5JUW0	0.84162
48568	P14079	Q8WV44	0.29839
48569	P14079	Q5T9Z0	1.0479
48570	P14079	Q53T94	0.52936
48571	P14079	Q8WUH2	0.88995
48572	P14079	Q5T6X4	1.455
48573	P14079	Q6EBC2	1.1894
48574	P14079	Q9H4I2	0.65266
48575	P14079	Q8WUE5	0.44258
48576	P14079	Q15233	0.51822
48577	P14079	O75474	1.8186
48578	P14079	Q8NF67	1.1388
48579	P14079	Q7Z5K2	0.79075
48580	P14079	P28360	0.12926
48581	P14079	Q9Y2I6	0.51416
48582	P14079	Q6ZUI0	0.75474
48583	P14079	Q8TBF5	0.87959
48584	P14079	Q9BSY9	0.92372
48585	P14079	Q8N8R7	1.2929
48586	P14079	Q96MW1	1.3222
48587	P14079	Q6ZS62	1.0604
48588	P14079	Q9BZ98	0.41696
48589	P14079	Q8WTU0	0.58349
48590	P14079	Q6L8G8	1.1715
48591	P14079	Q8WW22	0.57749
48592	P14079	Q8IYA6	1.4195
48593	P14079	P52740	0.50207
48594	P14079	Q3KNT9	1.5131
48595	P14079	Q13813	0.41012
48596	P14079	O43313	0.25342
48597	P14079	P24539	0.23288
48598	P14079	Q9NVX2	0.31898
48599	P14079	Q99547	1.3951
48600	P14079	Q96TC7	1.3844
48601	P14079	Q5BKU6	0.58702
48602	P14079	Q8N8R7	1.0631
48603	P14079	P35244	0.79307
48604	P14079	Q5UIP0	1.4491
48605	P14079	Q9NTG7	0.5543
48606	P14079	Q9Y221	0.93134
48607	P14079	O15105	0.92638
48608	P14079	Q9BZZ5	0.4731
48609	P14079	Q14140	2.1106
48610	P14079	A6NGK3	1.0162
48611	P14079	P78347	0.4492
48612	P14079	Q5JTC6	1.6336
48613	P14079	Q8NFV5	1.092
48614	P14079	Q8N6V4	0.89445
48615	P14079	Q9UDW3	0.34419
48616	P14079	Q7Z3I7	0.56358
48617	P14079	Q96E14	1.4104
48618	P14079	Q69YN4	0.97769
48619	P14079	Q96HQ0	0.59196
48620	P14079	A6NGY1	1.395
48621	P14079	Q5VWM1	0.88502
48622	P14079	Q9BYQ0	1.3698
48623	P14079	P54105	1.3451
48624	P14079	Q9HAH7	1.1817
48625	P14079	P0CW26	0.86237
48626	P14079	Q92575	1.1286
48627	P14079	Q96BD8	0.82119
48628	P14079	P78524	0.15996
48629	P14079	Q8N1I0	0.30564
48630	P14079	P48059	0.40537
48631	P14079	Q8IZT9	1.532
48632	P14079	A6NFI3	0.50383
48633	P14079	Q86VQ0	0.70174
48634	P14079	Q9BVA0	0.23525
48635	P14079	Q06609	0.4668
48636	P14079	Q69YW2	0.96912
48637	P14079	Q8TEF2	1.1885
48638	P14079	O14901	0.35221
48639	P14079	Q92988	0.46462
48640	P14079	Q86TY3	1.2485

48641	P14079	Q8NB50	0.80079
48642	P14079	O75122	0.41983
48643	P14079	Q8N9G6	1.1938
48644	P14079	Q9Y3I1	1.0138
48645	P14079	Q8TBP5	1.2485
48646	P14079	Q8WYA1	0.30398
48647	P14079	Q9Y6X8	0.63663
48648	P14079	Q07021	1.1692
48649	P14079	O00470	0.46739
48650	P14079	Q14683	0.53802
48651	P14079	O00267	1.1843
48652	P14079	Q9NW38	0.97455
48653	P14079	P62318	0.83696
48654	P14079	P0CG47	0.68371
48655	P14079	Q6ZQN3	1.5648
48656	P14079	Q3LI76	1.3568
48657	P14079	A6NCN8	1.3222
48658	P14079	Q32P44	0.25965
48659	P14079	Q96ME1	0.3778
48660	P14079	Q9H489	0.51865
48661	P14079	Q9UN36	0.43896
48662	P14079	P52736	0.67364
48663	P14079	Q9NVP1	0.10046
48664	P14079	Q86SZ3	0.71601
48665	P14079	Q8IY50	1.1271
48666	P14079	Q96FQ7	0.52179
48667	P14079	P56555	1.5466
48668	P14079	P54727	0.78942
48669	P14079	Q17RQ9	0.91808
48670	P14079	Q6S8J3	0.96316
48671	P14079	Q6ZUB0	1.2485
48672	P14079	Q9HAA7	0.49115
48673	P14079	Q9NYK5	0.76971
48674	P14079	Q8N616	1.1715
48675	P14079	O14965	0.33962
48676	P14079	Q9UQ80	0.93404
48677	P14079	Q5T1B0	0.13008
48678	P14079	Q6P9A1	0.92077
48679	P14079	Q15935	0.6303
48680	P14079	Q5TKA1	0.54465
48681	P14079	P81277	0.50785
48682	P14079	Q5JRM2	1.0613
48683	P14079	Q14582	0.38342
48684	P14079	Q9NX65	0.45326
48685	P14079	O95780	1.0602
48686	P14079	Q9Y5L0	1.1151
48687	P14079	Q96Q83	0.74287
48688	P14079	P02549	0.31687
48689	P14079	Q86TS7	1.1715
48690	P14079	Q6UWH4	1.3408
48691	P14079	Q9NXF1	0.66658
48692	P14079	O95257	0.70637
48693	P14079	P62269	1.0666
48694	P14079	Q86VR2	1.2942
48695	P14079	Q9H2J4	1.0518
48696	P14079	Q9ULJ6	0.50195
48697	P14079	Q96MH2	1.1717
48698	P14079	Q86WR7	1.5091
48699	P14079	P21673	0.55294
48700	P14079	Q96PS1	1.1146
48701	P14079	Q8N7S6	1.1715
48702	P14079	Q5TCZ1	0.39444
48703	P14079	O94776	1.1148
48704	P14079	A6NHS1	1.3601
48705	P14079	Q6PH85	0.20994
48706	P14079	Q9H0B6	0.93946
48707	P14079	Q86YD7	0.52751
48708	P14079	P0C7W0	1.3222
48709	P14079	O15151	0.46361
48710	P14079	Q9UJC5	0.95503
48711	P14079	Q8WYA6	0.97385
48712	P14079	Q9H4A6	0.97652
48713	P14079	Q96E16	1.3579
48714	P14079	Q9UNS1	0.45634
48715	P14079	Q6PIZ9	1.0881
48716	P14079	P69892	0.65657

48717	P14079	Q9NRX6	0.60686
48718	P14079	Q9Y4Y9	0.82907
48719	P14079	Q8N0V1	1.0577
48720	P14079	Q9NR77	0.99614
48721	P14079	Q6ZMS4	0.54886
48722	P14079	Q9P1Z2	1.0392
48723	P14079	P61578	1.1515
48724	P14079	Q9UPY6	0.28326
48725	P14079	Q9NVD7	0.53488
48726	P14079	Q96LU7	1.028
48727	P14079	P62701	0.62217
48728	P14079	P0CJ76	1.3031
48729	P14079	E9PAV3	0.7974
48730	P14079	Q9BYZ2	0.60641
48731	P14079	Q9Y573	0.19215
48732	P14079	O75969	0.66724
48733	P14079	Q9BQQ7	0.54081
48734	P14079	Q13287	0.56868
48735	P14079	Q7Z2Z1	1.441
48736	P14079	Q9UJ78	0.46997
48737	P14079	Q17RA5	1.1715
48738	P14079	Q6EEV6	0.22082
48739	P14079	Q9BRK4	0.83379
48740	P14079	Q2NKJ3	1.0156
48741	P14079	Q6UN15	1.7325
48742	P14079	Q92622	0.53802
48743	P14079	P18583	0.42296
48744	P14079	Q9Y239	0.28448
48745	P14079	Q9NRX3	1.2495
48746	P14079	P36954	0.2975
48747	P14079	Q9H7U1	1.6767
48748	P14079	P51826	0.6984
48749	P14079	O96006	1.4929
48750	P14079	Q9NWQ4	1.3098
48751	P14079	Q7Z2E3	0.62573
48752	P14079	P17030	0.60452
48753	P14079	Q8N808	1.2643
48754	P14079	Q5VYV7	0.56221
48755	P14079	Q7Z4W3	1.1715
48756	P14079	Q12857	0.40943
48757	P14079	Q8IYX8	0.34309
48758	P14079	Q9UHB9	0.50433
48759	P14079	Q15274	0.46804
48760	P14079	H3BQW9	1.2292
48761	P14079	Q8IUI4	0.70324
48762	P14079	Q9H5H4	0.5795
48763	P14079	P36956	0.2924
48764	P14079	O43617	0.58443
48765	P14079	Q9ULV5	0.38365
48766	P14079	P36871	0.059046
48767	P14079	Q96LM5	0.031437
48768	P14079	Q53TQ3	0.94572
48769	P14079	O75616	0.87
48770	P14079	A6NGB0	1.2485
48771	P14079	O14879	0.64608
48772	P14079	E9PB15	0.6674
48773	P14079	A8MWP4	0.86626
48774	P14079	Q96GY3	1.0215
48775	P14079	Q9Y5A7	0.8753
48776	P14079	Q9UQC2	0.43364
48777	P14079	Q6QNY1	1.0022
48778	P14079	O43151	1.0447
48779	P14079	Q9Y236	0.30349
48780	P14079	Q4VC39	0.8325
48781	P14079	Q6PII3	1.1705
48782	P14079	Q6URK8	1.0272
48783	P14079	Q9P2Y5	0.71445
48784	P14079	Q01094	0.79105
48785	P14079	Q5NDL2	0.38766
48786	P14079	Q13352	0.61244
48787	P14079	Q16612	0.31255
48788	P14079	Q9UBP8	0.9498
48789	P14079	Q9H902	0.23906
48790	P14079	Q9H5Z6	1.3222
48791	P14079	O00483	0.38303
48792	P14079	O75935	1.0307

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48794	P14079	Q9Y5B6	1.4104
48795	P14079	Q5T1B1	1.7345
48796	P14079	Q504Q3	0.10722
48797	P14079	O60443	0.62947
48798	P14079	A6NFD8	0.255
48799	P14079	Q9H568	0.70001
48800	P14079	Q8N4C9	1.2485
48801	P14079	Q969P6	0.78697
48802	P14079	Q8NEG0	0.90331
48803	P14079	Q5T5A4	0.94754
48804	P14079	A6NDR6	0.24936
48805	P14079	Q7L2Z9	0.79627
48806	P14079	Q6DCA0	0.70001
48807	P14079	Q9P2S5	0.2601
48808	P14079	P53701	1.1115
48809	P14079	Q14678	0.49494
48810	P14079	Q9C0D2	1.5293
48811	P14079	Q8N912	1.4726
48812	P14079	Q96MT3	0.86795
48813	P14079	Q96G25	0.95487
48814	P14079	Q9Y224	1.6052
48815	P14079	P86452	0.84777
48816	P14079	Q9Y5J9	0.97706
48817	P14079	P0CG38	0.99952
48818	P14079	Q5HYW3	1.7339
48819	P14079	Q92585	1.0491
48820	P14079	O60765	0.68218
48821	P14079	Q8N228	0.38002
48822	P14079	Q7RTU4	0.42542
48823	P14079	O75486	1.0316
48824	P14079	Q9Y2Z0	0.49088
48825	P14079	O00255	0.39266
48826	P14079	Q96HA4	0.82292
48827	P14079	O76042	1.1521
48828	P14079	Q9NUN5	0.96178
48829	P14079	A6NK58	0.58354
48830	P14079	P83111	0.14665
48831	P14079	P61575	1.355
48832	P14079	Q8N8C0	0.61722
48833	P14079	Q9NQC7	0.18479
48834	P14079	Q9H496	0.91283
48835	P14079	O95900	1.2936
48836	P14079	Q6ZS17	0.74576
48837	P14079	Q2VPJ9	1.3222
48838	P14079	Q96KS0	0.32306
48839	P14079	Q8WUF8	0.97691
48840	P14079	Q8N6I1	1.4032
48841	P14079	P15408	0.53462
48842	P14079	Q580R0	0.4117
48843	P14079	Q9ULK2	1.0973
48844	P14079	Q6PEV8	0.24266
48845	P14079	Q9UBY9	1.028
48846	P14079	P43355	1.0517
48847	P14079	Q3LI68	1.6908
48848	P14079	Q6ZV70	0.74121
48849	P14079	O94868	0.56221
48850	P14079	O14933	0.50939
48851	P14079	Q96C12	0.041588
48852	P14079	P61244	0.79362
48853	P14079	Q9HC77	1.211
48854	P14079	Q5JQC4	1.1715
48855	P14079	A6NLX4	1.2485
48856	P14079	Q6UWD8	0.94074
48857	P14079	O60884	0.58981
48858	P14079	Q9HBQ8	1.4427
48859	P14079	Q17R31	0.49931
48860	P14079	A6NNP5	0.20695
48861	P14079	Q13951	0.73049
48862	P14079	Q9ULE0	0.29482
48863	P14079	Q9BZQ8	1.311
48864	P14079	P63313	1.1711
48865	P14079	Q96CN0	1.1715
48866	P14079	Q8IYW2	1.1715
48867	P14079	Q8N7H5	0.88688
48868	P14079	P51580	0.67068



48869	P14079	A6XGL0	0.87949
48870	P14079	P08727	0.99997
48871	P14079	Q15940	0.88249
48872	P14079	Q8TEB1	0.37638
48873	P14079	Q9NW07	0.55049
48874	P14079	Q9NRA8	1.2586
48875	P14079	P0C7I6	1.3224
48876	P14079	Q9NX31	0.30749
48877	P14079	O75971	1.8063
48878	P14079	Q8TF63	1.3902
48879	P14079	O15480	0.081932
48880	P14079	Q15628	0.85695
48881	P14079	Q96M11	1.783
48882	P14079	Q6TDU7	0.93752
48883	P14079	Q53S33	1.5781
48884	P14079	Q9H3Q1	0.53442
48885	P14079	Q13145	0.59749
48886	P14079	Q96N11	0.96974
48887	P14079	Q9BXV9	1.1715
48888	P14079	O15259	0.40028
48889	P14079	Q96FT9	0.54383
48890	P14079	O14908	0.26554
48891	P14079	Q9H6K1	0.53811
48892	P14079	Q5SRE5	0.98304
48893	P14079	P04818	0.29906
48894	P14079	O14618	0.44614
48895	P14079	Q02080	0.79005
48896	P14079	Q06265	0.37119
48897	P14079	Q9UEU5	0.53923
48898	P14079	Q9NRG9	0.82786
48899	P14079	A2RUT3	1.344
48900	P14079	P0CW23	1.0342
48901	P14079	Q9Y4J8	0.30054
48902	P14079	Q8N7B7	0.58518
48903	P14079	Q96EY4	1.0971
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48905	P14079	Q6ZVC0	1.4801
48906	P14079	Q5HYK3	0.92098
48907	P14079	Q8WW14	0.59037
48908	P14079	Q9H8M7	1.0018
48909	P14079	Q9NSB2	0.94437
48910	P14079	Q96DM3	0.72814
48911	P14079	P51571	0.7016
48912	P14079	Q96KT0	0.95937
48913	P14079	Q30KQ6	0.91101
48914	P14079	Q8IW35	1.5022
48915	P14079	Q9GZV4	0.75544
48916	P14079	P01100	0.63772
48917	P14079	Q4W4Y0	0.93518
48918	P14079	Q9UJ68	0.44542
48919	P14079	Q8NE65	0.91121
48920	P14079	Q96PZ2	1.0953
48921	P14079	Q9P267	0.58195
48922	P14079	P10075	0.52953
48923	P14079	O75153	0.2893
48924	P14079	Q8TDI8	0.94171
48925	P14079	Q9NQ40	1.2062
48926	P14079	H3BTG2	1.2331
48927	P14079	O43395	0.92992
48928	P14079	P61313	1.2548
48929	P14079	Q5TBC7	0.57328
48930	P14079	Q9UBT6	0.38564
48931	P14079	Q9BRU2	0.52899
48932	P14079	P12035	0.98252
48933	P14079	P78412	0.24936
48934	P14079	Q8N812	1.4217
48935	P14079	P63146	0.56404
48936	P14079	O15273	0.33372
48937	P14079	Q9H816	0.64409
48938	P14079	Q8N7Q3	0.80886
48939	P14079	O95625	0.40943
48940	P14079	A8MTZ0	1.2008
48941	P14079	P0DL12	1.0595
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48943	P14079	O95218	0.61067
48944	P14079	Q5T5A8	1.1715

48945	P14079	Q9BQ13	0.18591
48946	P14079	Q96G28	0.60862
48947	P14079	Q719I0	0.58864
48948	P14079	Q9BYT5	0.88786
48949	P14079	Q96FX7	0.50331
48950	P14079	O75683	1.1414
48951	P14079	Q9NP71	0.37373
48952	P14079	Q8WZ71	1.2289
48953	P14079	Q9NZW5	0.2686
48954	P14079	Q9Y376	0.24404
48955	P14079	Q16342	0.23145
48956	P14079	O15234	1.5056
48957	P14079	Q5JSJ4	1.8235
48958	P14079	Q9BXW4	0.43453
48959	P14079	P0CL84	0.46781
48960	P14079	Q9NZB2	1.4239
48961	P14079	P42695	0.42114
48962	P14079	Q96EZ8	0.77469
48963	P14079	O75694	0.70035
48964	P14079	Q5TDH0	0.38319
48965	P14079	O14599	1.1715
48966	P14079	Q14188	0.69755
48967	P14079	Q9HAT2	0.9994
48968	P14079	Q10586	0.41112
48969	P14079	Q96SN8	0.77329
48970	P14079	Q9BY65	1.2746
48971	P14079	Q8IUM7	0.27737
48972	P14079	P23769	0.41158
48973	P14079	O60716	0.3233
48974	P14079	Q5T653	1.2117
48975	P14079	Q9UIG5	0.30168
48976	P14079	Q9H7Y2	1.0738
48977	P14079	Q8WVB3	0.096538
48978	P14079	O14681	1.4529
48979	P14079	P50502	0.71713
48980	P14079	O75717	0.57211
48981	P14079	Q96C03	1.2573
48982	P14079	P14406	0.83234
48983	P14079	P23511	1.1288
48984	P14079	Q96M34	0.63065
48985	P14079	Q8IYS4	0.577
48986	P14079	Q86Y97	0.23361
48987	P14079	Q9BTC0	0.35575
48988	P14079	O95473	0.8439
48989	P14079	Q56VL3	1.1262
48990	P14079	Q8TAF5	1.1715
48991	P14079	Q9NVN3	0.37442
48992	P14079	Q8NEF9	0.61376
48993	P14079	Q96H40	0.97758
48994	P14079	Q9H4R4	0.30003
48995	P14079	Q9P287	0.78489
48996	P14079	Q5UE93	0.9255
48997	P14079	Q9NV96	0.32918
48998	P14079	O15360	1.0132
48999	P14079	Q86X60	0.96022
49000	P14079	Q9HB75	0.85994
49001	P14079	P03901	0.87522
49002	P14079	Q08209	0.40183
49003	P14079	Q6ZU65	0.83977
49004	P14079	P14316	0.89714
49005	P14079	Q9NXX6	0.52703
49006	P14079	O00629	0.7272
49007	P14079	Q8WWW0	0.70331
49008	P14079	O60232	1.7258
49009	P14079	Q9H974	1.77
49010	P14079	Q8NCQ5	0.24772
49011	P14079	P0CG24	0.58926
49012	P14079	O60810	1.0087
49013	P14079	Q8NA61	0.31561
49014	P14079	Q8WTQ4	0.70852
49015	P14079	Q8N8D0	1.1715
49016	P14079	Q7L1V2	1.4935
49017	P14079	Q5T7V8	2.2431
49018	P14079	P68133	0.99952
49019	P14079	P82663	1.2209
49020	P14079	Q3BBV2	1.2315

49021	P14079	Q15438	0.29933
49022	P14079	Q9H300	0.88713
49023	P14079	P53680	0.285
49024	P14079	Q06250	1.1715
49025	P14079	P04280	0.9456
49026	P14079	Q9BZK8	1.1715
49027	P14079	Q86SY8	1.1715
49028	P14079	Q01658	0.50564
49029	P14079	P03886	0.52548
49030	P14079	O43593	0.15936
49031	P14079	Q969S3	0.88076
49032	P14079	Q96AQ1	1.4698
49033	P14079	P25205	0.40918
49034	P14079	Q96G04	0.16974
49035	P14079	Q9NZJ9	0.42934
49036	P14079	Q494R4	0.015
49037	P14079	Q9NR33	0.22047
49038	P14079	P52292	1.2387
49039	P14079	O43734	1.3222
49040	P14079	Q9NQG5	1.1221
49041	P14079	Q14152	1.2128
49042	P14079	Q9NQX6	0.60526
49043	P14079	P78537	1.3442
49044	P14079	Q7L0Y3	1.2327
49045	P14079	Q9BZE0	0.23869
49046	P14079	O75382	0.54243
49047	P14079	Q16401	1.1304
49048	P14079	Q8TD16	0.42765
49049	P14079	Q92615	0.93817
49050	P14079	P0CAP2	0.95944
49051	P14079	Q96CV9	0.70345
49052	P14079	Q9Y5U2	1.2745
49053	P14079	Q13426	0.45686
49054	P14079	P59047	0.25552
49055	P14079	Q5SSG8	1.0613
49056	P14079	Q8TAB7	1.3784
49057	P14079	Q4W5G0	0.83593
49058	P14079	Q9HBE1	0.43665
49059	P14079	O43761	1.0406
49060	P14079	Q9UKW6	0.41417
49061	P14079	Q9UQ84	0.23136
49062	P14079	P10144	0.33581
49063	P14079	Q05932	0.55322
49064	P14079	P48595	0.15934
49065	P14079	Q494V2	0.29766
49066	P14079	Q6P1W5	1.1201
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49068	P14079	Q96PV7	1.5091
49069	P14079	Q96BP3	0.17474
49070	P14079	Q9UJX4	0.98825
49071	P14079	Q8NET1	1.0712
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49073	P14079	Q8IWF9	0.74167
49074	P14079	Q7Z589	1.6808
49075	P14079	Q5H9R7	1.486
49076	P14079	Q9H9D4	0.72847
49077	P14079	Q96T76	1.0157
49078	P14079	Q9NUD7	0.50384
49079	P14079	Q13113	0.95129
49080	P14079	Q96I23	0.425
49081	P14079	Q8N3Z6	0.36455
49082	P14079	Q8WXD5	0.88465
49083	P14079	Q9NQR4	0.182
49084	P14079	Q9ULW6	0.46579
49085	P14079	Q8TD47	0.42121
49086	P14079	Q9Y3S2	0.99113
49087	P14079	Q9BYV8	1.0174
49088	P14079	P53990	1.0291
49089	P14079	Q9Y5L4	0.18193
49090	P14079	Q9BV57	0.48759
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49092	P14079	Q14686	1.3606
49093	P14079	Q8NG41	0.62495
49094	P14079	Q5T0W9	0.62653
49095	P14079	Q2M2W7	1.3222
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49097	P14079	Q8NDT2	0.93071
49098	P14079	Q9H063	1.0257
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49100	P14079	Q8TAE6	1.0405
49101	P14079	Q5VWG9	0.80351
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49104	P14079	Q6MZM9	1.1715
49105	P14079	P0C7T8	1.2485
49106	P14079	Q9UHF7	0.57559
49107	P14079	Q96C10	0.27214
49108	P14079	Q96CG3	0.70329
49109	P14079	P41970	1.0851
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49111	P14079	Q8WY98	0.83696
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49113	P14079	O60921	0.95343
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49115	P14079	Q92567	1.2766
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49118	P14079	P54920	0.61622
49119	P14079	Q9H9L4	0.86209
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49122	P14079	Q9NQS1	1.1436
49123	P14079	P17980	0.69287
49124	P14079	Q6NXP2	1.8257
49125	P14079	P78318	1.2612
49126	P14079	O15327	0.29326
49127	P14079	Q8TDG2	0.96178
49128	P14079	Q9Y5M1	0.94864
49129	P14079	Q8N3U1	1.1715
49130	P14079	Q9NXK8	0.73761
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49132	P14079	Q92688	0.28036
49133	P14079	Q15022	0.74446
49134	P14079	O75496	1.1102
49135	P14079	Q9H693	1.0439
49136	P14079	O75901	0.89717
49137	P14079	P0C7T5	0.86422
49138	P14079	Q15326	1.1825
49139	P14079	Q6IQ19	1.0173
49140	P14079	Q8NEY8	1.4341
49141	P14079	Q8WV15	1.2485
49142	P14079	Q9Y2W1	1.1981
49143	P14079	Q96DE0	1.7427
49144	P14079	Q3YBM2	1.6651
49145	P14079	P18754	1.3321
49146	P14079	Q9Y6F1	0.37578
49147	P14079	P86481	1.1715
49148	P14079	Q03154	0.51173
49149	P14079	Q9NPA8	0.58928
49150	P14079	Q96EL2	0.48542
49151	P14079	Q96K31	1.1415
49152	P14079	Q96N95	0.36857
49153	P14079	Q9NZL4	0.89153
49154	P14079	Q8NE18	1.6831
49155	P14079	Q96GN5	1.129
49156	P14079	Q8TC21	0.60926
49157	P14079	Q8NHR9	0.29665
49158	P14079	Q9BZW4	1.4221
49159	P14079	Q9NQ92	0.8653
49160	P14079	O15131	1.3085
49161	P14079	Q96EY1	1.0003
49162	P14079	P78358	1.3978
49163	P14079	O60304	0.54607
49164	P14079	Q6ZPD9	0.85783
49165	P14079	Q69YW0	0.75607
49166	P14079	Q8N111	1.0085
49167	P14079	Q8N0Y7	0.86177
49168	P14079	O14777	0.71284
49169	P14079	Q96PK6	0.69306
49170	P14079	P50222	0.45113
49171	P14079	P07814	0.90646
49172	P14079	P0DJI8	0.9033

49173	P14079	Q9BS18	1.1557
49174	P14079	P17023	0.53698
49175	P14079	O94993	0.25139
49176	P14079	A6NC51	0.91469
49177	P14079	Q8NFJ8	0.47544
49178	P14079	Q6ZN17	1.1761
49179	P14079	Q9C0E2	1.0412
49180	P14079	Q9UHD4	1.0828
49181	P14079	Q7Z624	0.65124
49182	P14079	Q5TEA3	0.92792
49183	P14079	Q9UI66	1.1715
49184	P14079	Q9P2D0	0.31138
49185	P14079	Q86UB9	1.4779
49186	P14079	Q96C90	0.97829
49187	P14079	A1L4Q6	0.6655
49188	P14079	O95202	0.64075
49189	P14079	Q9NUQ9	0.16973
49190	P14079	Q96PI1	1.4673
49191	P14079	Q04727	0.56344
49192	P14079	Q99836	0.26126
49193	P14079	O75177	1.2692
49194	P14079	O00743	0.8056
49195	P14079	Q969W8	0.92268
49196	P14079	Q86TJ2	0.56769
49197	P14079	P07741	0.83577
49198	P14079	Q8WUA4	0.32842
49199	P14079	Q86YD1	1.2708
49200	P14079	Q9Y2V2	0.74468
49201	P14079	Q8WYH8	0.46104
49202	P14079	Q16520	0.91566
49203	P14079	Q9NZH5	0.87682
49204	P14079	Q14203	1.2742
49205	P14079	Q9UJ94	1.1715
49206	P14079	Q9H3F6	0.30734
49207	P14079	A6NK44	0.39752
49208	P14079	O43324	1.2237
49209	P14079	Q86UQ5	1.1715
49210	P14079	Q9Y462	0.8349
49211	P14079	Q8IY63	0.49732
49212	P14079	Q9H5J4	0.77014
49213	P14079	Q8IYF3	0.62499
49214	P14079	P30047	0.73534
49215	P14079	Q8NFT6	0.32605
49216	P14079	Q9BY31	0.4226
49217	P14079	Q9H9F9	1.1207
49218	P14079	Q9UGU0	0.41998
49219	P14079	O95050	0.013212
49220	P14079	Q9BRX5	0.51585
49221	P14079	Q8IY51	0.18624
49222	P14079	Q96B86	0.91194
49223	P14079	Q12893	1.0673
49224	P14079	Q5H9J7	1.4257
49225	P14079	Q9P219	0.41225
49226	P14079	Q8IXM6	1.3508
49227	P14079	Q8WUZ0	1.3152
49228	P14079	O15144	0.58107
49229	P14079	Q96CN9	0.89744
49230	P14079	Q5SV97	1.3928
49231	P14079	Q8IWB1	0.97642
49232	P14079	Q8WW38	0.59341
49233	P14079	Q2KHR3	0.47117
49234	P14079	Q6UWI2	1.3063
49235	P14079	Q5VVK0	0.18717
49236	P14079	Q5VXU9	0.26969
49237	P14079	Q2T9L4	0.79289
49238	P14079	P47928	0.57993
49239	P14079	P48539	0.78118
49240	P14079	Q9UJT2	1.2581
49241	P14079	Q96DP5	1.1415
49242	P14079	P0C2S0	1.1353
49243	P14079	Q8IVY1	1.1823
49244	P14079	Q5JR98	0.99094
49245	P14079	Q9UBM8	0.82214
49246	P14079	P02729	1.1715
49247	P14079	Q9NQE9	0.30614
49248	P14079	O94850	1.2904

49249	P14079	Q8TAX9	0.45181
49250	P14079	P0CG39	0.96316
49251	P14079	Q8IZT6	0.44773
49252	P14079	Q96PB1	1.382
49253	P14079	Q9Y2B1	1.2485
49254	P14079	P62851	1.3924
49255	P14079	P27816	0.73656
49256	P14079	Q5VU36	1.3668
49257	P14079	Q8N7U9	0.47868
49258	P14079	Q9HCL3	1.0178
49259	P14079	Q9H788	1.0563
49260	P14079	Q8IYA8	1.3222
49261	P14079	O43684	0.87238
49262	P14079	Q8N688	0.7885
49263	P14079	Q8TAU3	0.61621
49264	P14079	P07992	0.13874
49265	P14079	Q6P1L8	1.3656
49266	P14079	Q9NVS9	0.70574
49267	P14079	Q32M84	0.44343
49268	P14079	Q49AQ9	0.80567
49269	P14079	P0C6E6	0.35338
49270	P14079	Q9BTM9	1.2887
49271	P14079	Q8TCS8	0.42442
49272	P14079	Q9NZU7	0.54708
49273	P14079	Q9BTX1	1.1942
49274	P14079	Q86WW8	1.0085
49275	P14079	P37275	0.74765
49276	P14079	A6NLC5	1.0773
49277	P14079	Q8NEM1	1.0245
49278	P14079	Q8N7C4	1.1715
49279	P14079	P35241	0.30182
49280	P14079	Q96S06	1.2107
49281	P14079	Q07352	0.87138
49282	P14079	Q9UGP4	0.45652
49283	P14079	Q969G5	0.90632
49284	P14079	Q53QV2	1.0452
49285	P14079	Q7Z5W3	1.0929
49286	P14079	O14490	0.44078
49287	P14079	Q8TC71	0.88532
49288	P14079	Q96FW1	0.5784
49289	P14079	Q9H6K4	1.1856
49290	P14079	Q92925	0.55839
49291	P14079	Q5T013	0.60157
49292	P14079	Q8TDC0	1.2628
49293	P14079	Q6J272	1.6338
49294	P14079	P28072	0.98613
49295	P14079	Q9BSM1	0.98923
49296	P14079	Q96M85	1.1715
49297	P14079	Q04323	0.39913
49298	P14079	P0C7V6	1.1571
49299	P14079	Q99619	0.33959
49300	P14079	P19447	0.17153
49301	P14079	Q3SY56	0.22134
49302	P14079	Q9UMS5	1.6062
49303	P14079	Q8N1Q8	0.98341
49304	P14079	Q9Y535	0.45833
49305	P14079	Q7Z2V1	1.1715
49306	P14079	Q8TAV0	1.5675
49307	P14079	Q8N3J3	1.1154
49308	P14079	Q8NC69	0.18591
49309	P14079	Q6UXP9	0.7104
49310	P14079	Q9BWX1	0.29221
49311	P14079	Q96NS1	0.50693
49312	P14079	O95751	1.3101
49313	P14079	Q9UGR2	0.8057
49314	P14079	Q9BYQ8	1.3698
49315	P14079	O43542	0.5359
49316	P14079	Q8WTS6	0.27252
49317	P14079	Q8WZA0	0.51671
49318	P14079	Q8TAD1	1.0968
49319	P14079	A6NGU7	0.85092
49320	P14079	Q86XK3	1.5029
49321	P14079	O95391	0.52634
49322	P14079	Q9Y657	0.54786
49323	P14079	Q9P0K7	0.31337
49324	P14079	Q15849	0.9101

49325	P14079	Q9UNH5	0.66839
49326	P14079	Q9NWX4	1.3425
49327	P14079	P39687	1.2895
49328	P14079	Q9BU19	0.1949
49329	P14079	Q9H501	1.86
49330	P14079	B7Z6K7	0.53821
49331	P14079	Q8N8F7	1.2485
49332	P14079	Q9UIY3	0.74433
49333	P14079	Q5J8X5	1.2485
49334	P14079	Q96A59	1.1211
49335	P14079	P49411	0.76812
49336	P14079	O60308	0.89162
49337	P14079	Q96AP0	0.70534
49338	P14079	Q9UBU7	0.40821
49339	P14079	Q96EY9	0.75258
49340	P14079	Q96KN7	0.249
49341	P14079	Q6AZY7	0.7893
49342	P14079	P46108	0.50407
49343	P14079	Q3MUY2	1.0803
49344	P14079	P0C7T7	1.1715
49345	P14079	Q09161	0.89826
49346	P14079	P05388	1.5593
49347	P14079	O43805	0.86603
49348	P14079	Q5T2D3	0.16521
49349	P14079	A8MQ14	0.64109
49350	P14079	Q6P1M3	1.0859
49351	P14079	Q9Y2G9	1.2728
49352	P14079	P11441	0.66019
49353	P14079	O60927	1.3662
49354	P14079	P17535	0.99069
49355	P14079	P0C7X0	0.13295
49356	P14079	Q8IUD6	0.22805
49357	P14079	Q14587	0.50207
49358	P14079	Q674X7	0.60051
49359	P14079	Q9Y608	0.44446
49360	P14079	Q8N766	0.90574
49361	P14079	Q53EZ4	0.91616
49362	P14079	Q86WS4	1.1715
49363	P14079	Q6ZSB9	0.48782
49364	P14079	Q04637	0.67817
49365	P14079	Q09FC8	0.63549
49366	P14079	Q9NX78	0.9887
49367	P14079	O75459	1.0766
49368	P14079	Q5JX71	1.0613
49369	P14079	P31483	0.4127
49370	P14079	Q5JYT7	0.29793
49371	P14079	P09496	0.26061
49372	P14079	O14628	0.99076
49373	P14079	P50221	0.34143
49374	P14079	Q9NSC2	0.36055
49375	P14079	P0CJ85	0.25626
49376	P14079	Q9BRR3	0.80054
49377	P14079	Q5SXJ2	1.9823
49378	P14079	Q99550	0.69042
49379	P14079	Q9Y6X4	1.8063
49380	P14079	P22626	0.43549
49381	P14079	Q14019	0.43264
49382	P14079	Q8N7K0	0.77845
49383	P14079	P46020	0.58361
49384	P14079	Q9UFM2	0.92038
49385	P14079	Q15390	0.89576
49386	P14079	Q96MF4	1.1689
49387	P14079	Q8N8E2	0.28627
49388	P14079	Q8NI51	0.6408
49389	P14079	Q7Z7A1	1.5113
49390	P14079	Q9BSF0	0.74122
49391	P14079	Q99767	0.45309
49392	P14079	P07305	0.39419
49393	P14079	Q6IV72	0.53255
49394	P14079	Q14CZ0	2.0415
49395	P14079	Q8NFR9	1.3079
49396	P14079	Q3B7T3	0.95483
49397	P14079	Q8NCR6	1.0796
49398	P14079	Q13619	0.57252
49399	P14079	Q5H9L2	1.0823
49400	P14079	Q9NVT9	0.5743

49401	P14079	Q15643	1.2878
49402	P14079	Q5SRR4	1.0431
49403	P14079	Q8NBF1	0.50773
49404	P14079	Q1AE95	1.1391
49405	P14079	Q9NRP4	0.040861
49406	P14079	Q00522	0.4172
49407	P14079	A6NM28	0.57412
49408	P14079	Q5T953	1.566
49409	P14079	Q5VTL8	1.5092
49410	P14079	Q96K17	0.9967
49411	P14079	A6NEY3	1.4427
49412	P14079	Q8N183	0.4383
49413	P14079	Q53QW1	1.3222
49414	P14079	Q9Y587	0.23675
49415	P14079	O15488	0.25288
49416	P14079	Q96N58	0.63215
49417	P14079	O14524	1.0244
49418	P14079	Q8N8A2	0.56221
49419	P14079	Q9H6F2	0.81473
49420	P14079	Q96IP4	1.041
49421	P14079	Q96C74	0.48695
49422	P14079	O76009	0.88619
49423	P14079	Q3SXR2	1.0048
49424	P14079	O60763	0.65928
49425	P14079	P13051	1.7343
49426	P14079	P10914	0.43127
49427	P14079	P22674	0.60056
49428	P14079	Q9H160	0.43867
49429	P14079	O43236	0.34542
49430	P14079	Q2M3D2	0.50714
49431	P14079	Q86X83	1.0047
49432	P14079	P84103	0.69899
49433	P14079	Q9UN30	0.20516
49434	P14079	P0C841	1.1715
49435	P14079	Q9ULJ3	0.73947
49436	P14079	P59861	0.91101
49437	P14079	Q8NHZ7	0.91772
49438	P14079	Q6NUN7	1.1715
49439	P14079	Q7Z398	0.58326
49440	P14079	Q6ZSA8	1.1715
49441	P14079	P29083	1.4132
49442	P14079	Q5SZD1	1.0363
49443	P14079	Q96NJ6	0.55736
49444	P14079	Q5THK1	0.62789
49445	P14079	Q13342	0.67034
49446	P14079	Q86SE9	1.0622
49447	P14079	Q6P597	0.35092
49448	P14079	Q5SNT6	1.3964
49449	P14079	Q9Y3P8	1.1766
49450	P14079	A6NGC4	1.2485
49451	P14079	Q8IWZ8	0.20168
49452	P14079	Q8NAA6	0.38693
49453	P14079	Q9H267	0.43954
49454	P14079	Q8IY92	0.53104
49455	P14079	Q8IYS1	0.37516
49456	P14079	O43257	0.92402
49457	P14079	Q95865	0.42125
49458	P14079	Q9HA58	1.1715
49459	P14079	Q8N0U2	1.1715
49460	P14079	P60368	1.1184
49461	P14079	Q9UK59	0.48061
49462	P14079	O15534	0.27529
49463	P14079	Q6NSW7	0.28169
49464	P14079	Q02446	0.17327
49465	P14079	P61925	0.24433
49466	P14079	Q96NF6	0.79957
49467	P14079	Q8NEG7	0.94318
49468	P14079	Q92993	0.78229
49469	P14079	Q8TCY9	1.4147
49470	P14079	Q4G0Z9	1.1602
49471	P14079	P19419	1.4312
49472	P14079	O94927	0.74419
49473	P14079	P0CE67	1.1715
49474	P14079	O60224	0.31443
49475	P14079	Q8TF47	0.9897
49476	P14079	Q14690	0.5416



49477	P14079	P49917	0.088548
49478	P14079	O75170	1.2288
49479	P14079	Q9Y222	0.83457
49480	P14079	Q9BU61	0.83674
49481	P14079	O15014	1.7517
49482	P14079	Q9BYQ5	1.3698
49483	P14079	O94854	0.37444
49484	P14079	Q7Z7K6	1.1257
49485	P14079	Q9H714	0.86906
49486	P14079	Q9H999	0.95045
49487	P14079	Q6ZR85	1.1715
49488	P14079	Q08AF8	0.95714
49489	P14079	Q9H089	0.38984
49490	P14079	Q9HAB8	1.2931
49491	P14079	Q99551	0.90561
49492	P14079	Q8WWH5	1.054
49493	P14079	Q63HM2	1.0148
49494	P14079	Q13114	0.51165
49495	P14079	Q27J81	0.31443
49496	P14079	P55957	0.7724
49497	P14079	Q9UQN3	0.67368
49498	P14079	P21675	0.42258
49499	P14079	Q9UPQ9	0.81704
49500	P14079	Q9Y2K5	0.872
49501	P14079	A6NHP3	1.092
49502	P14079	Q9NPA0	0.972
49503	P14079	P13647	1.0576
49504	P14079	Q8N6G2	0.031863
49505	P14079	Q96KN8	0.012626
49506	P14079	Q8TAT8	0.93818
49507	P14079	O00268	1.1166
49508	P14079	C9JXX5	0.98371
49509	P14079	Q5VU43	1.2821
49510	P14079	Q16666	0.61225
49511	P14079	Q8IUR6	1.2406
49512	P14079	Q9HBM6	0.64795
49513	P14079	Q9BR09	0.55714
49514	P14079	P01858	1.1715
49515	P14079	Q8WVF5	0.18591
49516	P14079	P30622	0.53773
49517	P14079	Q659A1	1.0193
49518	P14079	Q86X10	0.82063
49519	P14079	P39748	0.26791
49520	P14079	P14651	0.15955
49521	P14079	Q5TGY3	0.85254
49522	P14079	P59991	1.4458
49523	P14079	P38159	0.70663
49524	P14079	Q68EN5	0.75145
49525	P14079	Q8IZ26	0.60675
49526	P14079	Q9NS73	0.83522
49527	P14079	Q9UIF8	0.86433
49528	P14079	Q5CZA5	0.72218
49529	P14079	P49901	1.1715
49530	P14079	Q96I27	0.55399
49531	P14079	Q9H116	0.62194
49532	P14079	Q13438	0.086056
49533	P14079	Q96LZ7	0.29703
49534	P14079	Q96L11	1.0694
49535	P14079	Q6P1K2	1.1203
49536	P14079	Q9UKT9	0.45512
49537	P14079	Q9NV64	0.9257
49538	P14079	A6NEF3	1.4427
49539	P14079	P58340	0.29421
49540	P14079	B1AH88	1.1715
49541	P14079	Q64ET8	1.4746
49542	P14079	Q96BW1	0.55137
49543	P14079	Q96CW5	1.3221
49544	P14079	P52948	1.1774
49545	P14079	O75113	1.0336
49546	P14079	P34896	0.35304
49547	P14079	Q9NQ55	0.75934
49548	P14079	P13693	0.15486
49549	P14079	Q9BYG8	0.62864
49550	P14079	A1L170	1.1715
49551	P14079	Q9H606	1.0403
49552	P14079	Q6IQ21	0.75178

49553	P14079	Q6NW34	1.0613
49554	P14079	Q6NX49	0.53332
49555	P14079	Q14978	1.3241
49556	P14079	Q3L8U1	0.6457
49557	P14079	P0CG13	0.59217
49558	P14079	Q9ULD0	0.2653
49559	P14079	Q17RB0	1.2815
49560	P14079	Q99750	0.99421
49561	P14079	Q8NDV7	0.6329
49562	P14079	O95298	1.2593
49563	P14079	Q8N6V9	0.2666
49564	P14079	Q96GC6	1.1189
49565	P14079	Q96T58	0.7015
49566	P14079	O75970	0.34015
49567	P14079	B7Z1M9	0.17796
49568	P14079	Q5M9N0	0.023846
49569	P14079	Q96EH5	1.2526
49570	P14079	Q53EL6	1.1627
49571	P14079	Q9UJL9	0.53095
49572	P14079	Q8NA03	1.1425
49573	P14079	Q7Z713	0.28036
49574	P14079	Q5JNZ3	0.71663
49575	P14079	Q0VAF6	0.48057
49576	P14079	Q9H9Y6	0.65343
49577	P14079	Q9P2I0	0.96424
49578	P14079	Q9UPV0	1.8404
49579	P14079	Q9H7M6	0.71756
49580	P14079	Q15372	0.81331
49581	P14079	Q13296	0.8483
49582	P14079	Q5T6F2	1.5951
49583	P14079	Q7LBC6	0.32669
49584	P14079	Q8IU68	0.94171
49585	P14079	Q08999	1.2778
49586	P14079	Q5VZL5	1.6004
49587	P14079	Q8N5C7	0.33635
49588	P14079	A0PJW6	1.2281
49589	P14079	Q9UJV8	0.10002
49590	P14079	Q5TYW8	0.24326
49591	P14079	Q96QF7	0.77901
49592	P14079	Q8IW50	1.3222
49593	P14079	Q96JS3	0.40998
49594	P14079	Q8IYG6	0.022844
49595	P14079	Q96HW7	0.81654
49596	P14079	Q8NDY6	0.57363
49597	P14079	Q3LI58	1.1715
49598	P14079	Q8N8D9	0.69563
49599	P14079	Q8NAQ8	1.9833
49600	P14079	Q7Z5L4	1.0219
49601	P14079	Q9NRI7	1.1715
49602	P14079	P43320	0.53079
49603	P14079	Q6ZN11	0.55341
49604	P14079	E7EW31	1.1715
49605	P14079	Q9BYD9	0.96178
49606	P14079	Q9UBG7	0.16561
49607	P14079	Q9NZD2	0.99061
49608	P14079	Q9NYF0	0.49655
49609	P14079	Q8NCE8	1.059
49610	P14079	Q53F19	1.6203
49611	P14079	P50750	0.35626
49612	P14079	Q86TA4	0.64033
49613	P14079	Q8WXG1	0.2836
49614	P14079	Q7Z5L2	0.92628
49615	P14079	Q5TG92	1.2191
49616	P14079	Q9H081	0.81275
49617	P14079	P20290	1.152
49618	P14079	Q6PB30	1.4359
49619	P14079	Q5T6S3	0.37434
49620	P14079	Q9Y6J0	0.13942
49621	P14079	O00273	0.53131
49622	P14079	P40305	1.1533
49623	P14079	Q86W50	0.8542
49624	P14079	Q9NUG4	0.37637
49625	P14079	P42768	0.62745
49626	P14079	C9JLW8	1.1508
49627	P14079	Q5VWT5	1.2828
49628	P14079	Q53EQ6	0.98962

49629	P14079	A6NF83	1.1925
49630	P14079	Q8TBE0	0.75096
49631	P14079	Q8WVM0	0.92582
49632	P14079	Q30KP9	0.97021
49633	P14079	Q6VUC0	0.37224
49634	P14079	Q16836	0.1092
49635	P14079	Q9HCH0	1.8498
49636	P14079	A8MT70	1.3446
49637	P14079	Q15545	0.84454
49638	P14079	Q13490	0.39996
49639	P14079	P46977	0.42096
49640	P14079	O00712	0.49375
49641	P14079	Q7Z6B0	0.99148
49642	P14079	Q5TG08	1.5912
49643	P14079	Q92870	0.64656
49644	P14079	A6NLC8	1.5655
49645	P14079	Q96NB1	0.42054
49646	P14079	P42771	0.68193
49647	P14079	Q99962	0.37228
49648	P14079	Q9Y295	0.70778
49649	P14079	Q9Y3D5	1.1754
49650	P14079	Q69383	1.355
49651	P14079	Q99457	0.5801
49652	P14079	Q9BWH2	0.15502
49653	P14079	Q9H322	1.3275
49654	P14079	Q8N138	1.0559
49655	P14079	Q96SI1	0.18591
49656	P14079	Q9Y2G1	0.36614
49657	P14079	Q8N7R0	0.28169
49658	P14079	Q9HAV7	0.87526
49659	P14079	A6NHN6	1.1493
49660	P14079	Q5T280	1.7686
49661	P14079	P49366	0.46787
49662	P14079	Q96KR6	1.3607
49663	P14079	Q6ZRH4	1.9689
49664	P14079	Q8NAF0	0.1949
49665	P14079	Q9Y2D9	0.77928
49666	P14079	P10636	0.18943
49667	P14079	Q9UBK5	1.522
49668	P14079	J3KSC0	0.27668
49669	P14079	O00401	0.60638
49670	P14079	Q96KG9	0.28377
49671	P14079	Q9H6E4	0.83655
49672	P14079	P81534	0.95735
49673	P14079	Q9UPX6	1.2485
49674	P14079	Q5T5P2	0.60719
49675	P14079	P42898	0.5127
49676	P14079	Q14008	1.2114
49677	P14079	Q9GZU7	0.6395
49678	P14079	A6NEY8	0.88702
49679	P14079	Q9UI08	0.35537
49680	P14079	Q6ZP82	0.56221
49681	P14079	A2RU67	0.91569
49682	P14079	Q92733	1.1715
49683	P14079	A8MV72	1.2455
49684	P14079	F8WFD2	0.93248
49685	P14079	Q14119	0.34674
49686	P14079	Q9Y2L5	0.43112
49687	P14079	Q5T871	1.1715
49688	P14079	Q96D09	0.35142
49689	P14079	Q9NPP4	0.28783
49690	P14079	P17028	0.80586
49691	P14079	O96001	1.0538
49692	P14079	P04406	0.21361
49693	P14079	Q8N998	0.71406
49694	P14079	Q9BSE4	1.0284
49695	P14079	Q8WWB5	1.4021
49696	P14079	Q5VW36	0.6409
49697	P14079	Q9H201	0.36898
49698	P14079	Q8WVJ2	0.46566
49699	P14079	Q14681	0.18591
49700	P14079	P23760	0.82375
49701	P14079	Q96EU6	0.84735
49702	P14079	Q9C0D7	0.96288
49703	P14079	Q6ZTU2	1.5023
49704	P14079	Q8NBC4	1.1715

49705	P14079	Q96GV9	0.67424
49706	P14079	P0DJH9	0.75084
49707	P14079	Q3BBV1	1.9823
49708	P14079	P62857	0.97776
49709	P14079	Q86TL2	1.1538
49710	P14079	Q9NSN8	0.25447
49711	P14079	Q6ZSB3	0.46525
49712	P14079	Q96PV4	0.30393
49713	P14079	Q9BT04	1.0825
49714	P14079	Q9BYX7	0.86229
49715	P14079	Q9BVW5	1.0454
49716	P14079	Q8TAQ5	0.77845
49717	P14079	Q9UPX8	0.39138
49718	P14079	Q96G75	0.21263
49719	P14079	P05060	0.71989
49720	P14079	P55884	0.29678
49721	P14079	Q8NHY2	1.0798
49722	P14079	Q9P1G2	1.1212
49723	P14079	Q8NA96	1.0613
49724	P14079	P62861	1.6749
49725	P14079	Q9H6K5	1.3222
49726	P14079	Q92843	0.66563
49727	P14079	Q8IWE4	0.62851
49728	P14079	Q96CM4	0.55134
49729	P14079	Q9GZM5	1.0676
49730	P14079	Q8TAF7	0.9897
49731	P14079	Q15942	0.54799
49732	P14079	P0CJ79	0.71663
49733	P14079	E7ETH6	0.5823
49734	P14079	Q8WXI4	0.28777
49735	P14079	Q6ZS94	1.1715
49736	P14079	Q5T686	1.029
49737	P14079	Q5VV41	0.38732
49738	P14079	A1L190	1.5102
49739	P14079	Q96C28	0.8567
49740	P14079	P46013	0.62183
49741	P14079	Q9Y3D9	0.7261
49742	P14079	Q6P2I3	0.70336
49743	P14079	Q6ZTI6	1.2431
49744	P14079	P60412	1.3698
49745	P14079	Q96LQ0	1.073
49746	P14079	Q15398	1.1106
49747	P14079	Q9GZY6	0.69012
49748	P14079	H3BQB6	1.5312
49749	P14079	O94916	0.51423
49750	P14079	Q06587	0.50535
49751	P14079	Q6ZSR6	0.70369
49752	P14079	Q8N5F7	1.3918
49753	P14079	A0ZSE6	1.0693
49754	P14079	P43362	0.30704
49755	P14079	Q5VT40	1.1731
49756	P14079	Q5TA78	1.1715
49757	P14079	Q14201	0.20849
49758	P14079	Q66K41	1.3958
49759	P14079	O43731	0.80489
49760	P14079	P22415	0.38671
49761	P14079	Q9H0C5	0.71001
49762	P14079	P37837	1.247
49763	P14079	P82914	1.2442
49764	P14079	Q8IUZ0	0.25965
49765	P14079	P43351	0.89489
49766	P14079	O15503	0.51487
49767	P14079	Q6ZTZ1	0.90832
49768	P14079	P61024	1.0304
49769	P14079	Q86T29	0.51784
49770	P14079	Q86SX3	1.9267
49771	P14079	Q8N852	0.84909
49772	P14079	Q7L3B6	0.62039
49773	P14079	Q96PQ5	0.43343
49774	P14079	Q15653	1.2753
49775	P14079	Q9BSR8	1.0273
49776	P14079	Q8WXI9	0.8296
49777	P14079	Q13495	1.7083
49778	P14079	Q8NHW5	0.4748
49779	P14079	Q8TAT2	0.82352
49780	P14079	P51948	0.56751

49781	P14079	Q5T5B0	1.1715
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49783	P14079	O15544	0.53058
49784	P14079	Q8TAA5	0.87526
49785	P14079	Q8IW19	0.38463
49786	P14079	Q9HD34	1.0041
49787	P14079	Q6NSZ9	0.38376
49788	P14079	P21912	0.082224
49789	P14079	Q8WTP8	0.11287
49790	P14079	Q9UMS6	0.83339
49791	P14079	Q9NXZ1	0.47767
49792	P14079	P58513	0.23646
49793	P14079	Q9NX55	0.64512
49794	P14079	Q96C57	1.1674
49795	P14079	Q13123	1.4533
49796	P14079	Q9H814	1.5648
49797	P14079	Q96LM6	0.51314
49798	P14079	Q7Z4H3	0.35535
49799	P14079	Q17R26	0.70934
49800	P14079	Q5TBB1	1.5049
49801	P14079	Q8IXR5	1.0576
49802	P14079	Q6ICL3	0.81135
49803	P14079	Q9HD47	0.58708
49804	P14079	Q9H6B1	0.98575
49805	P14079	Q96NL8	1.4283
49806	P14079	O75391	1.3421
49807	P14079	P49406	0.94824
49808	P14079	Q96FM1	0.85426
49809	P14079	Q9Y6Q2	0.28158
49810	P14079	Q8N8H1	0.93794
49811	P14079	O94983	1.2996
49812	P14079	Q96F83	0.68697
49813	P14079	P63162	0.80323
49814	P14079	K9M1U5	1.1715
49815	P14079	Q6JBY9	0.97806
49816	P14079	Q96CS2	0.76457
49817	P14079	Q9BZW7	0.27174
49818	Q2Q067	Q3KQU3	0.36757
49819	Q2Q067	Q9BTW9	0.10311
49820	Q2Q067	Q92783	0.5594
49821	Q2Q067	O95363	0.23654
49822	Q2Q067	P19012	0.69995
49823	Q2Q067	Q86W56	0.66187
49824	Q2Q067	P04156	0.31504
49825	Q2Q067	P61580	0.48164
49826	Q2Q067	Q9H714	0.17438
49827	Q2Q067	Q96S95	0.26715
49828	Q2Q067	Q5JS54	0.23277
49829	Q2Q067	Q7Z3C6	0.068786
49830	Q2Q067	Q5JNZ5	0.27303
49831	Q2Q067	Q6P047	0.22687
49832	Q2Q067	E7ETH6	0.10377
49833	Q2Q067	O95376	0.31653
49834	Q2Q067	Q8N5N7	0.28691
49835	Q2Q067	Q68CZ2	0.33339
49836	Q2Q067	Q13562	0.25144
49837	Q2Q067	Q0D2J5	0.11356
49838	Q2Q067	Q5VSL9	0.76954
49839	Q2Q067	Q12901	0.1777
49840	Q2Q067	Q8IXW0	0.22005
49841	Q2Q067	O95411	0.19215
49842	Q2Q067	P05204	0.35292
49843	Q2Q067	Q5MJ07	0.40408
49844	Q2Q067	A8MYZ0	0.30161
49845	Q2Q067	P02792	0.15177
49846	Q2Q067	O60806	0.46742
49847	Q2Q067	Q9NUC0	0.061697
49848	Q2Q067	P51398	1.1807
49849	Q2Q067	P49454	0.55148
49850	Q2Q067	Q9HC78	0.13257
49851	Q2Q067	Q09FC8	0.21153
49852	Q2Q067	Q96EI5	0.42404
49853	Q2Q067	A8MTY7	0.34715
49854	Q2Q067	Q9Y253	0.22824
49855	Q2Q067	Q8WW24	0.1203
49856	Q2Q067	Q9H4I2	0.76059

49857	Q2Q067	Q01844	0.51672
49858	Q2Q067	Q9NZ81	0.69263
49859	Q2Q067	Q9UNP9	0.3075
49860	Q2Q067	Q9UM63	0.16623
49861	Q2Q067	O15014	0.6492
49862	Q2Q067	P23588	0.12363
49863	Q2Q067	Q92900	0.53858
49864	Q2Q067	A6NJJ6	0.29573
49865	Q2Q067	P05198	0.70496
49866	Q2Q067	Q96SQ5	0.12519
49867	Q2Q067	Q96TC7	0.31827
49868	Q2Q067	O15511	0.13168
49869	Q2Q067	Q14974	1.104
49870	Q2Q067	P78346	0.35194
49871	Q2Q067	Q9HD33	0.36818
49872	Q2Q067	Q7L2H7	0.52105
49873	Q2Q067	Q2TAM9	0.54396
49874	Q2Q067	Q13278	0.32659
49875	Q2Q067	Q9BUE0	1.0006
49876	Q2Q067	Q9Y473	0.24041
49877	Q2Q067	Q6ZRS4	0.2567
49878	Q2Q067	Q9BYE7	0.77359
49879	Q2Q067	Q9H583	1.008
49880	Q2Q067	Q66PJ3	0.60884
49881	Q2Q067	O43290	0.93736
49882	Q2Q067	Q13573	0.62304
49883	Q2Q067	Q8TCS8	0.069106
49884	Q2Q067	Q9C0C6	0.43222
49885	Q2Q067	Q8IZ16	0.13934
49886	Q2Q067	Q96F63	0.29573
49887	Q2Q067	P61313	1.0382
49888	Q2Q067	Q9BU02	0.46811
49889	Q2Q067	B1AH88	0.19215
49890	Q2Q067	Q9NQG7	0.26694
49891	Q2Q067	Q9BSU1	0.35334
49892	Q2Q067	P07438	0.18499
49893	Q2Q067	Q14526	0.53132
49894	Q2Q067	Q8NHR7	0.057884
49895	Q2Q067	Q9Y5K5	0.32826
49896	Q2Q067	P30153	0.55294
49897	Q2Q067	Q8WV37	0.38703
49898	Q2Q067	Q9BRT2	0.32308
49899	Q2Q067	Q9NWS1	0.93617
49900	Q2Q067	Q9UNN4	0.41554
49901	Q2Q067	Q8N859	0.22415
49902	Q2Q067	Q12798	0.60905
49903	Q2Q067	O43365	0.89284
49904	Q2Q067	O95602	0.58405
49905	Q2Q067	Q2YD98	0.12878
49906	Q2Q067	Q6PF05	0.17122
49907	Q2Q067	P83369	0.68999
49908	Q2Q067	P52742	0.1371
49909	Q2Q067	Q15054	0.59032
49910	Q2Q067	Q15573	0.44637
49911	Q2Q067	Q9BRH9	0.11603
49912	Q2Q067	Q8NDY4	0.19215
49913	Q2Q067	Q9ULD0	0.32592
49914	Q2Q067	Q9UKI9	1.2939
49915	Q2Q067	Q3KRA6	0.59206
49916	Q2Q067	Q9UI26	0.32176
49917	Q2Q067	Q9Y4R8	0.11677
49918	Q2Q067	Q8NG57	0.24331
49919	Q2Q067	Q86X02	0.074505
49920	Q2Q067	Q96N77	0.29295
49921	Q2Q067	Q9Y2J2	0.32669
49922	Q2Q067	Q5SZL2	0.071228
49923	Q2Q067	Q3MIV0	0.19215
49924	Q2Q067	Q9UBW5	0.47001
49925	Q2Q067	Q9NWB6	0.39593
49926	Q2Q067	Q8N0U6	0.19215
49927	Q2Q067	Q9Y6X3	0.94733
49928	Q2Q067	Q4G0F5	0.054305
49929	Q2Q067	C9JN71	0.13128
49930	Q2Q067	Q8NHY2	1.0329
49931	Q2Q067	Q14151	0.65493
49932	Q2Q067	Q9BZZ5	0.35432

49933	Q2Q067	Q9P2Y5	0.23327
49934	Q2Q067	O14734	0.23345
49935	Q2Q067	Q12905	1.0621
49936	Q2Q067	O43463	0.77783
49937	Q2Q067	Q9UPP1	0.40636
49938	Q2Q067	O95671	0.23493
49939	Q2Q067	Q9NNW5	0.46718
49940	Q2Q067	Q7RTT3	0.12144
49941	Q2Q067	Q96EE3	0.56907
49942	Q2Q067	Q9NWX4	0.20754
49943	Q2Q067	A6NFL8	0.37471
49944	Q2Q067	Q9NZI7	0.2899
49945	Q2Q067	Q8TAF3	0.62517
49946	Q2Q067	Q8IUD2	0.80658
49947	Q2Q067	Q8WZ33	0.81112
49948	Q2Q067	P33240	0.48395
49949	Q2Q067	Q01082	0.43036
49950	Q2Q067	Q9NWK9	0.4745
49951	Q2Q067	Q99460	0.2383
49952	Q2Q067	O15027	0.30734
49953	Q2Q067	P27540	0.43526
49954	Q2Q067	Q3LI58	0.19215
49955	Q2Q067	A4D997	0.2528
49956	Q2Q067	P17544	1.069
49957	Q2Q067	Q9P2D3	0.38872
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49959	Q2Q067	Q9BWC9	0.47289
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49961	Q2Q067	Q13118	0.323
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49963	Q2Q067	Q8WW35	0.28783
49964	Q2Q067	Q9BZL4	0.47001
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49966	Q2Q067	Q33E94	0.91753
49967	Q2Q067	Q6VMQ6	0.99512
49968	Q2Q067	P52434	0.29775
49969	Q2Q067	Q8NCF5	0.47309
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49971	Q2Q067	Q9BZK3	0.1814
49972	Q2Q067	Q92750	0.63491
49973	Q2Q067	Q9BPX7	0.062418
49974	Q2Q067	Q6IPW1	0.21605
49975	Q2Q067	O60232	0.5901
49976	Q2Q067	P01100	0.60196
49977	Q2Q067	Q96J02	0.30092
49978	Q2Q067	Q9H3C7	0.51883
49979	Q2Q067	P83876	0.91461
49980	Q2Q067	Q8IXJ6	0.31795
49981	Q2Q067	Q99613	0.69547
49982	Q2Q067	Q96D70	0.44312
49983	Q2Q067	Q9UL45	0.15732
49984	Q2Q067	Q9BQ61	0.29573
49985	Q2Q067	Q03989	0.29397
49986	Q2Q067	P62701	0.50169
49987	Q2Q067	P22392	0.26528
49988	Q2Q067	P46108	0.42959
49989	Q2Q067	Q3KNT7	0.032013
49990	Q2Q067	H3BU77	0.18601
49991	Q2Q067	Q96S07	0.19215
49992	Q2Q067	Q9UN81	0.30205
49993	Q2Q067	Q6PB30	0.42267
49994	Q2Q067	Q9UK13	0.23615
49995	Q2Q067	P35789	0.20369
49996	Q2Q067	Q9HBH1	0.35356
49997	Q2Q067	P53370	0.41559
49998	Q2Q067	Q9UH99	0.081153
49999	Q2Q067	O60524	0.55837
50000	Q2Q067	Q8NCT3	0.37244
50001	Q2Q067	P50402	0.14022
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50003	Q2Q067	Q8NA42	0.11771
50004	Q2Q067	O00213	0.39095
50005	Q2Q067	Q9HB65	0.51366
50006	Q2Q067	Q9Y6X8	0.69773
50007	Q2Q067	Q6FI81	0.36772
50008	Q2Q067	Q8NHW5	0.09739

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50010	Q2Q067	O75351	0.27784
50011	Q2Q067	Q9BTV5	0.37446
50012	Q2Q067	Q96HA8	0.94956
50013	Q2Q067	Q92988	0.56881
50014	Q2Q067	P35908	0.24881
50015	Q2Q067	O00425	0.4258
50016	Q2Q067	O75161	0.51717
50017	Q2Q067	Q8N187	0.66047
50018	Q2Q067	Q9H2G9	0.40367
50019	Q2Q067	P82921	0.33904
50020	Q2Q067	Q8WWX9	0.4411
50021	Q2Q067	O95639	0.32893
50022	Q2Q067	Q3SY00	0.41702
50023	Q2Q067	Q9Y3A2	0.84719
50024	Q2Q067	Q96MR7	0.77455
50025	Q2Q067	Q96FV9	0.8617
50026	Q2Q067	Q9ULR5	0.42796
50027	Q2Q067	Q9GZT8	0.81427
50028	Q2Q067	O43167	0.58991
50029	Q2Q067	Q2M218	0.10324
50030	Q2Q067	Q04864	1.232
50031	Q2Q067	P02538	0.67965
50032	Q2Q067	P81877	0.42639
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50034	Q2Q067	Q9UHL9	0.27553
50035	Q2Q067	Q7L0X2	0.061262
50036	Q2Q067	Q9NYP9	0.30323
50037	Q2Q067	P0C853	0.19215
50038	Q2Q067	Q9BYD6	0.2879
50039	Q2Q067	Q9UJN7	0.091745
50040	Q2Q067	Q9NXW9	0.1687
50041	Q2Q067	Q5SWW7	0.19215
50042	Q2Q067	O00411	0.49157
50043	Q2Q067	Q5H9J9	0.058047
50044	Q2Q067	Q96MW7	0.19704
50045	Q2Q067	Q8N831	0.2401
50046	Q2Q067	O75832	0.464
50047	Q2Q067	Q99865	0.32334
50048	Q2Q067	P0C1Z6	1.1991
50049	Q2Q067	Q16236	0.67566
50050	Q2Q067	Q5TAQ9	0.24229
50051	Q2Q067	Q03923	0.25959
50052	Q2Q067	Q6UN15	0.61578
50053	Q2Q067	Q9Y2S7	0.44629
50054	Q2Q067	Q9Y2M0	0.33929
50055	Q2Q067	Q8N5R6	0.32153
50056	Q2Q067	Q14657	0.7317
50057	Q2Q067	O60684	0.32002
50058	Q2Q067	A8MSI8	0.69679
50059	Q2Q067	Q86U42	0.70446
50060	Q2Q067	A8MYA2	0.15705
50061	Q2Q067	P48556	0.39923
50062	Q2Q067	O94973	0.39104
50063	Q2Q067	O15234	0.87169
50064	Q2Q067	Q9Y4A5	0.80781
50065	Q2Q067	Q8WV44	0.29601
50066	Q2Q067	P09917	0.23837
50067	Q2Q067	Q9BYQ7	0.41862
50068	Q2Q067	Q13084	1.0215
50069	Q2Q067	Q9UEG4	0.11466
50070	Q2Q067	Q9H321	0.43298
50071	Q2Q067	P62633	0.60791
50072	Q2Q067	P10746	0.14814
50073	Q2Q067	Q5VVS0	0.53547
50074	Q2Q067	Q9NVH2	0.20549
50075	Q2Q067	Q6ZUA9	0.24272
50076	Q2Q067	Q5TD94	0.094971
50077	Q2Q067	Q9H2U2	0.3933
50078	Q2Q067	Q96N21	0.28161
50079	Q2Q067	P54252	0.43114
50080	Q2Q067	Q8IWL8	0.4678
50081	Q2Q067	Q6P387	0.32989
50082	Q2Q067	Q6NUN7	0.19215
50083	Q2Q067	Q9BUG6	0.076446
50084	Q2Q067	Q969W3	0.36981



50085	Q2Q067	Q9NUL5	0.025585
50086	Q2Q067	C9JE40	0.83476
50087	Q2Q067	Q5R3I4	0.054652
50088	Q2Q067	Q8NCX0	0.11855
50089	Q2Q067	P18754	1.0894
50090	Q2Q067	P49458	0.40228
50091	Q2Q067	Q96S65	0.70154
50092	Q2Q067	Q9BYQ6	0.34715
50093	Q2Q067	P60331	0.34715
50094	Q2Q067	Q96GE4	0.031307
50095	Q2Q067	Q9NX08	0.28783
50096	Q2Q067	Q96H22	0.14794
50097	Q2Q067	Q9BZE1	0.28685
50098	Q2Q067	A6NDX5	0.15529
50099	Q2Q067	Q15013	0.80221
50100	Q2Q067	P47914	0.57329
50101	Q2Q067	P23381	0.2013
50102	Q2Q067	A8MU10	0.19215
50103	Q2Q067	P02545	0.73076
50104	Q2Q067	Q9H3J6	0.39716
50105	Q2Q067	O43364	0.61745
50106	Q2Q067	Q6VN20	0.35239
50107	Q2Q067	Q86VW0	0.19247
50108	Q2Q067	P82933	0.59997
50109	Q2Q067	Q8IU60	0.90724
50110	Q2Q067	P07910	0.24013
50111	Q2Q067	P31749	0.55651
50112	Q2Q067	Q8NEM1	0.24839
50113	Q2Q067	P52948	1.0538
50114	Q2Q067	Q92890	0.80268
50115	Q2Q067	P35754	0.3622
50116	Q2Q067	Q9Y305	0.31752
50117	Q2Q067	Q9NRP2	0.40933
50118	Q2Q067	Q71F23	0.61356
50119	Q2Q067	O15525	0.39254
50120	Q2Q067	Q7LBR1	0.85651
50121	Q2Q067	Q6P2H3	0.50076
50122	Q2Q067	P40306	0.41448
50123	Q2Q067	Q13185	0.77814
50124	Q2Q067	Q6NVH7	0.56614
50125	Q2Q067	Q9NWS8	0.32996
50126	Q2Q067	Q9UC06	0.10905
50127	Q2Q067	Q9BZE4	0.26462
50128	Q2Q067	Q8N535	0.20616
50129	Q2Q067	Q96GA3	0.44044
50130	Q2Q067	Q52M58	0.30292
50131	Q2Q067	Q9BQY9	0.41843
50132	Q2Q067	Q14258	1.0352
50133	Q2Q067	Q86VG3	0.23361
50134	Q2Q067	Q86XA9	0.087098
50135	Q2Q067	P50995	0.7908
50136	Q2Q067	P0DMB2	0.26811
50137	Q2Q067	Q99583	0.41784
50138	Q2Q067	Q2KHR2	0.22597
50139	Q2Q067	Q9ULX3	0.63234
50140	Q2Q067	Q6ZN28	0.57327
50141	Q2Q067	P62312	0.84991
50142	Q2Q067	A8MTB1	0.19215
50143	Q2Q067	Q08AI8	0.29573
50144	Q2Q067	Q93034	0.75541
50145	Q2Q067	O75155	0.76301
50146	Q2Q067	Q8IZL2	0.87367
50147	Q2Q067	P98182	0.042317
50148	Q2Q067	Q14008	0.83619
50149	Q2Q067	Q9BSJ6	0.47129
50150	Q2Q067	Q6UXP7	0.10047
50151	Q2Q067	Q9Y2Y0	0.97635
50152	Q2Q067	P42773	0.31869
50153	Q2Q067	O43920	0.32856
50154	Q2Q067	Q9Y333	0.73413
50155	Q2Q067	Q8IX15	0.51811
50156	Q2Q067	Q8N6V4	0.072688
50157	Q2Q067	Q5U5X0	0.4051
50158	Q2Q067	Q9NRF9	0.034431
50159	Q2Q067	A0AUK8	0.045275
50160	Q2Q067	Q5HYW3	0.41864

50161	Q2Q067	Q9UN52	0.6289
50162	Q2Q067	Q12769	1.0412
50163	Q2Q067	Q9H4X1	0.41661
50164	Q2Q067	Q12837	0.56038
50165	Q2Q067	Q96SD1	0.0024929
50166	Q2Q067	Q96CB9	0.35209
50167	Q2Q067	Q8WUQ7	0.11351
50168	Q2Q067	Q8N2M8	0.54566
50169	Q2Q067	P46779	1.1616
50170	Q2Q067	O00186	0.73784
50171	Q2Q067	Q9H7X3	0.091251
50172	Q2Q067	Q9H008	0.40325
50173	Q2Q067	O14786	0.33477
50174	Q2Q067	Q9H910	0.45693
50175	Q2Q067	Q6UXP9	0.03377
50176	Q2Q067	Q9BYQ2	0.34715
50177	Q2Q067	Q9BXU2	0.2148
50178	Q2Q067	Q8TF63	0.34114
50179	Q2Q067	Q7L8J4	0.20814
50180	Q2Q067	O14744	0.93696
50181	Q2Q067	Q9BVP2	0.18996
50182	Q2Q067	Q9Y6K5	0.10627
50183	Q2Q067	Q9UPN9	0.4484
50184	Q2Q067	O60239	0.27414
50185	Q2Q067	Q96EL2	0.30752
50186	Q2Q067	Q9Y5Q3	0.87933
50187	Q2Q067	Q9Y3S2	0.21919
50188	Q2Q067	Q8WXF5	0.26153
50189	Q2Q067	Q5T036	0.016216
50190	Q2Q067	P35321	0.37712
50191	Q2Q067	Q9Y6D6	0.60753
50192	Q2Q067	Q9Y6Q5	0.34478
50193	Q2Q067	Q9BYD1	0.82504
50194	Q2Q067	Q03052	0.3639
50195	Q2Q067	O75461	0.26705
50196	Q2Q067	Q9Y613	0.54262
50197	Q2Q067	Q9H246	0.10062
50198	Q2Q067	Q8IUC6	0.24356
50199	Q2Q067	O00410	1.1626
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50201	Q2Q067	Q93009	0.32544
50202	Q2Q067	Q9UK11	0.1732
50203	Q2Q067	Q9BY41	0.37912
50204	Q2Q067	P17029	0.2057
50205	Q2Q067	Q8WXQ3	0.65353
50206	Q2Q067	Q96GX2	0.36712
50207	Q2Q067	Q12796	1.0622
50208	Q2Q067	Q9BW66	0.85206
50209	Q2Q067	P52738	0.079889
50210	Q2Q067	Q9ULX6	0.3226
50211	Q2Q067	Q9NR56	0.40937
50212	Q2Q067	Q96IP4	0.25585
50213	Q2Q067	Q9H0C8	0.36563
50214	Q2Q067	Q96GI7	0.29573
50215	Q2Q067	Q10587	0.36826
50216	Q2Q067	A8MTY0	0.22615
50217	Q2Q067	P0C7X3	0.18322
50218	Q2Q067	O75427	0.4431
50219	Q2Q067	Q6NVV0	0.29201
50220	Q2Q067	A5PL33	0.36577
50221	Q2Q067	Q9HAW0	0.41702
50222	Q2Q067	Q495Y8	0.23617
50223	Q2Q067	O75909	1.0122
50224	Q2Q067	Q3MHD2	0.33951
50225	Q2Q067	Q9Y3C7	0.91133
50226	Q2Q067	Q9NQT4	0.48699
50227	Q2Q067	A0AVK6	0.39033
50228	Q2Q067	Q96NU7	0.065492
50229	Q2Q067	Q15631	0.71082
50230	Q2Q067	Q8N228	0.30214
50231	Q2Q067	P55036	0.59286
50232	Q2Q067	Q9UMS5	0.5332
50233	Q2Q067	Q96D98	0.5152
50234	Q2Q067	Q9H7R0	0.20181
50235	Q2Q067	Q99747	0.48767
50236	Q2Q067	Q96PE6	0.089474

50237	Q2Q067	Q8N1I8	0.19215
50238	Q2Q067	Q8IZD2	0.25129
50239	Q2Q067	Q3LI54	0.19215
50240	Q2Q067	Q4U2R6	0.82504
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50242	Q2Q067	Q99502	0.12582
50243	Q2Q067	Q9H3H9	0.51012
50244	Q2Q067	Q8IZ26	0.10927
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50246	Q2Q067	Q10567	0.6406
50247	Q2Q067	Q7Z353	0.25814
50248	Q2Q067	P60002	0.54009
50249	Q2Q067	Q9HBZ2	0.32854
50250	Q2Q067	Q9NR28	0.85518
50251	Q2Q067	O75474	0.61002
50252	Q2Q067	Q9BRR0	0.29228
50253	Q2Q067	Q6ZW49	0.38588
50254	Q2Q067	Q96HW7	0.57387
50255	Q2Q067	Q5VUG0	0.3157
50256	Q2Q067	Q96HA1	0.47828
50257	Q2Q067	Q9UPR3	1.0134
50258	Q2Q067	P10827	0.27434
50259	Q2Q067	Q8WWY6	0.39593
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50261	Q2Q067	P04198	0.86056
50262	Q2Q067	Q9Y615	0.28879
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50264	Q2Q067	Q96A49	0.51629
50265	Q2Q067	B1AL46	0.4993
50266	Q2Q067	Q9P219	0.31389
50267	Q2Q067	Q2KJ03	0.077271
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50271	Q2Q067	Q9NVM4	0.22247
50272	Q2Q067	Q04726	0.99024
50273	Q2Q067	Q6ZRH9	0.19215
50274	Q2Q067	Q96N03	0.28783
50275	Q2Q067	Q96HR3	0.77088
50276	Q2Q067	Q96KQ4	0.86974
50277	Q2Q067	O15126	0.18082
50278	Q2Q067	O43361	0.12208
50279	Q2Q067	Q9HAU4	0.34925
50280	Q2Q067	Q5D1E8	0.40254
50281	Q2Q067	P0C7T4	0.19215
50282	Q2Q067	O60294	0.27826
50283	Q2Q067	A9UHW6	0.73024
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50285	Q2Q067	Q9Y462	0.60647
50286	Q2Q067	Q7Z4W3	0.19215
50287	Q2Q067	Q9Y324	0.54298
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50291	Q2Q067	Q7Z6J0	0.24785
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50295	Q2Q067	Q9NRH1	0.11691
50296	Q2Q067	P59022	0.28782
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50298	Q2Q067	P56377	0.33492
50299	Q2Q067	Q8TCE6	0.58433
50300	Q2Q067	Q7Z4H7	0.80542
50301	Q2Q067	P78559	0.64888
50302	Q2Q067	Q96NI8	0.20344
50303	Q2Q067	Q3BBV2	0.3158
50304	Q2Q067	Q9GZW5	0.5105
50305	Q2Q067	Q92681	0.37464
50306	Q2Q067	Q5JXB2	0.10977
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50310	Q2Q067	O00303	0.24485
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50312	Q2Q067	Q9Y266	0.49408

50313	Q2Q067	Q9BVL4	0.6609
50314	Q2Q067	P49591	0.17564
50315	Q2Q067	P56182	0.44684
50316	Q2Q067	Q9UGU0	0.3101
50317	Q2Q067	Q9GZP8	0.19215
50318	Q2Q067	Q96NB3	0.38146
50319	Q2Q067	Q32M84	0.018047
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50321	Q2Q067	O75925	0.53475
50322	Q2Q067	O95273	0.88398
50323	Q2Q067	P07195	0.23751
50324	Q2Q067	Q92922	1.0562
50325	Q2Q067	Q6NUN9	0.70422
50326	Q2Q067	Q63HQ0	0.19215
50327	Q2Q067	P63104	1.0277
50328	Q2Q067	Q6ZVL8	0.19215
50329	Q2Q067	Q8IVT2	0.40664
50330	Q2Q067	Q96KN1	0.33672
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50334	Q2Q067	Q9Y3F4	0.84451
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50349	Q2Q067	A6NEY8	0.09569
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50355	Q2Q067	Q70YC5	0.1967
50356	Q2Q067	O43747	0.6781
50357	Q2Q067	O60304	0.087873
50358	Q2Q067	Q9NTK1	0.4489
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50371	Q2Q067	Q9Y4P1	0.17069
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50373	Q2Q067	Q9BYR5	0.34715
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50386	Q2Q067	O15519	0.23517
50387	Q2Q067	Q53QW1	0.29573
50388	Q2Q067	Q9H063	0.26238

50389	Q2Q067	Q96E14	0.38255
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50391	Q2Q067	Q9NYK6	0.23304
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50394	Q2Q067	Q8N1G4	0.22814
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50396	Q2Q067	Q8NEF9	0.62384
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50404	Q2Q067	Q5T6F2	0.47078
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50416	Q2Q067	Q63HK5	0.32097
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50419	Q2Q067	P0CJ88	0.27517
50420	Q2Q067	Q9BY44	0.34844
50421	Q2Q067	Q6ZVK8	0.26464
50422	Q2Q067	Q9NQW6	0.22355
50423	Q2Q067	Q8NI35	0.24382
50424	Q2Q067	Q9BUP3	0.18682
50425	Q2Q067	E9PI22	0.28994
50426	Q2Q067	Q8TD31	0.37672
50427	Q2Q067	Q9HAV7	0.18761
50428	Q2Q067	Q6ICB0	0.41668
50429	Q2Q067	Q86UA6	0.61659
50430	Q2Q067	Q99081	0.4861
50431	Q2Q067	Q86XZ4	0.21187
50432	Q2Q067	Q8N0Y2	0.10021
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50434	Q2Q067	Q9Y2D1	1.1951
50435	Q2Q067	Q96PV6	0.37901
50436	Q2Q067	Q1A5X6	0.29573
50437	Q2Q067	Q92664	0.098905
50438	Q2Q067	C9J3I9	0.20816
50439	Q2Q067	Q5VTD9	0.22242
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50446	Q2Q067	Q6PGQ1	0.20845
50447	Q2Q067	Q9NPB6	0.67809
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50449	Q2Q067	Q2VPB7	0.45094
50450	Q2Q067	Q8IY18	0.31658
50451	Q2Q067	Q6ZQR2	0.51861
50452	Q2Q067	Q96K75	0.090033
50453	Q2Q067	O95433	0.53418
50454	Q2Q067	Q9Y3Q8	1.2604
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50456	Q2Q067	Q9UHB7	1.3326
50457	Q2Q067	Q12888	0.73469
50458	Q2Q067	Q9BYQ8	0.34715
50459	Q2Q067	Q9H175	1.1059
50460	Q2Q067	P51861	0.30462
50461	Q2Q067	O00512	0.78563
50462	Q2Q067	Q96LI5	0.55342
50463	Q2Q067	Q6XD76	0.29177
50464	Q2Q067	Q8NEE0	0.19215

50465	Q2Q067	Q96B97	0.33314
50466	Q2Q067	O00291	0.43039
50467	Q2Q067	Q8WW12	0.59432
50468	Q2Q067	O00470	0.61739
50469	Q2Q067	Q8NCR6	0.15623
50470	Q2Q067	P52272	0.22401
50471	Q2Q067	Q9BUT9	0.60936
50472	Q2Q067	Q9UBX2	0.27517
50473	Q2Q067	O75818	0.23666
50474	Q2Q067	Q6PJP8	0.58221
50475	Q2Q067	Q8WY54	0.79297
50476	Q2Q067	Q86V59	0.16324
50477	Q2Q067	Q92889	0.24821
50478	Q2Q067	Q9UHR5	1.2198
50479	Q2Q067	Q13887	0.25257
50480	Q2Q067	Q7L8W6	0.2896
50481	Q2Q067	Q9Y6G5	0.28783
50482	Q2Q067	Q14980	1.0414
50483	Q2Q067	Q9NVU7	0.38967
50484	Q2Q067	Q92572	0.37613
50485	Q2Q067	Q9P032	0.46005
50486	Q2Q067	Q8NCQ2	0.37491
50487	Q2Q067	Q15293	0.24578
50488	Q2Q067	O00267	1.0433
50489	Q2Q067	P35080	0.34479
50490	Q2Q067	Q02543	0.78122
50491	Q2Q067	Q96RK1	0.6348
50492	Q2Q067	P06400	0.71708
50493	Q2Q067	Q8TA94	0.24343
50494	Q2Q067	Q9HB96	0.80624
50495	Q2Q067	Q8IV32	0.28913
50496	Q2Q067	P61326	1.0595
50497	Q2Q067	O43493	0.35412
50498	Q2Q067	B4DZS4	0.01678
50499	Q2Q067	O60784	0.33773
50500	Q2Q067	Q6NUP7	0.40334
50501	Q2Q067	Q8IVG9	0.081155
50502	Q2Q067	Q6ZN32	0.32768
50503	Q2Q067	Q9H9T3	0.78432
50504	Q2Q067	P30419	0.12854
50505	Q2Q067	Q9NPJ6	0.88576
50506	Q2Q067	O75534	0.081839
50507	Q2Q067	O75494	0.57959
50508	Q2Q067	O00231	0.48061
50509	Q2Q067	Q8WYA1	0.33342
50510	Q2Q067	Q9UMX3	0.55272
50511	Q2Q067	Q8IZH2	0.20517
50512	Q2Q067	Q0D2K3	0.48085
50513	Q2Q067	Q8NCE0	0.35634
50514	Q2Q067	Q7L9L4	0.74681
50515	Q2Q067	Q8IWE5	0.33609
50516	Q2Q067	O43257	0.24537
50517	Q2Q067	Q96I24	0.43219
50518	Q2Q067	Q8WW33	0.26738
50519	Q2Q067	P14866	0.4648
50520	Q2Q067	Q9BXQ6	0.19215
50521	Q2Q067	Q7Z5K2	0.69142
50522	Q2Q067	P29374	0.23394
50523	Q2Q067	Q99547	0.67294
50524	Q2Q067	P26373	1.0132
50525	Q2Q067	O95567	0.19215
50526	Q2Q067	O00233	0.65724
50527	Q2Q067	P42167	0.12377
50528	Q2Q067	Q9NPF5	0.90449
50529	Q2Q067	P29692	0.31326
50530	Q2Q067	Q9UJX3	0.74537
50531	Q2Q067	Q9UJX5	0.80792
50532	Q2Q067	A6NL46	0.41724
50533	Q2Q067	Q6NW29	0.072759
50534	Q2Q067	Q86YE8	0.16182
50535	Q2Q067	P21980	0.20719
50536	Q2Q067	Q9H2K2	0.30117
50537	Q2Q067	Q5SRH9	0.43965
50538	Q2Q067	O43663	0.78883
50539	Q2Q067	P27694	0.54919
50540	Q2Q067	P51825	1.0085

50541	Q2Q067	Q08AN1	0.16182
50542	Q2Q067	Q9C005	0.61146
50543	Q2Q067	P49959	0.19297
50544	Q2Q067	Q6RW13	0.47173
50545	Q2Q067	Q9Y676	0.32798
50546	Q2Q067	Q5TG08	0.42889
50547	Q2Q067	P41220	0.37096
50548	Q2Q067	Q8NEM7	0.27988
50549	Q2Q067	Q5XKK7	0.027736
50550	Q2Q067	Q15459	0.60867
50551	Q2Q067	P49792	0.85947
50552	Q2Q067	Q01094	0.79982
50553	Q2Q067	P58317	0.12151
50554	Q2Q067	O75394	0.23005
50555	Q2Q067	Q8IYF1	0.1975
50556	Q2Q067	Q9UKV0	0.41393
50557	Q2Q067	Q14678	0.4662
50558	Q2Q067	Q8WW38	0.53047
50559	Q2Q067	Q99575	0.6777
50560	Q2Q067	Q9Y4B6	0.8822
50561	Q2Q067	Q13427	0.38384
50562	Q2Q067	O95684	0.8369
50563	Q2Q067	Q9H706	0.28783
50564	Q2Q067	Q08999	1.328
50565	Q2Q067	Q96LR2	0.53194
50566	Q2Q067	Q6ZMY9	0.22722
50567	Q2Q067	Q56VL3	0.23797
50568	Q2Q067	Q96NJ1	0.19215
50569	Q2Q067	P40763	0.35081
50570	Q2Q067	Q9H5Q4	0.34354
50571	Q2Q067	Q8WYH8	0.51055
50572	Q2Q067	P78424	0.24106
50573	Q2Q067	Q8N8Z8	0.090549
50574	Q2Q067	P14921	0.85141
50575	Q2Q067	Q6ZNK6	0.53044
50576	Q2Q067	Q9NXV6	0.52994
50577	Q2Q067	Q8TAV0	0.44409
50578	Q2Q067	Q96A35	0.31215
50579	Q2Q067	Q5VZB9	0.026821
50580	Q2Q067	Q8TF01	0.44409
50581	Q2Q067	Q9UBQ5	1.0282
50582	Q2Q067	P0C7W0	0.29573
50583	Q2Q067	P23610	0.19215
50584	Q2Q067	P62750	0.86707
50585	Q2Q067	Q7Z6I5	0.47585
50586	Q2Q067	Q6ZS27	0.093473
50587	Q2Q067	Q9BV29	0.027765
50588	Q2Q067	Q9Y3E1	0.33063
50589	Q2Q067	Q8WWL7	0.88592
50590	Q2Q067	Q5VUE5	0.21787
50591	Q2Q067	Q96MT4	0.38755
50592	Q2Q067	Q0VDF9	0.26091
50593	Q2Q067	Q9NYB0	0.51342
50594	Q2Q067	Q9P127	0.071225
50595	Q2Q067	Q08209	0.38483
50596	Q2Q067	A6NP11	0.2627
50597	Q2Q067	Q8TAF5	0.19215
50598	Q2Q067	O60732	0.28783
50599	Q2Q067	Q9UL59	0.095324
50600	Q2Q067	Q96LA8	0.68414
50601	Q2Q067	Q8N6N3	0.098878
50602	Q2Q067	O15226	0.79674
50603	Q2Q067	Q9NS26	0.45678
50604	Q2Q067	P61579	0.36503
50605	Q2Q067	Q3SYF9	0.19215
50606	Q2Q067	Q8IZD4	0.95237
50607	Q2Q067	P06454	0.40814
50608	Q2Q067	Q9BZK8	0.19215
50609	Q2Q067	Q8N4W9	0.16182
50610	Q2Q067	Q53EQ6	0.24653
50611	Q2Q067	Q64ET8	0.38375
50612	Q2Q067	A6NGS2	0.31249
50613	Q2Q067	Q13889	0.25609
50614	Q2Q067	Q96NT1	0.57092
50615	Q2Q067	Q9H1L0	0.27594
50616	Q2Q067	Q9BRV8	0.52594

50617	Q2Q067	P60413	0.34715
50618	Q2Q067	P41219	0.091321
50619	Q2Q067	Q6ZQN3	0.3913
50620	Q2Q067	Q13352	0.43741
50621	Q2Q067	P31040	0.6795
50622	Q2Q067	P01106	0.456
50623	Q2Q067	O14579	0.31897
50624	Q2Q067	P47813	0.69178
50625	Q2Q067	Q8N1N5	0.44566
50626	Q2Q067	Q9H2P0	0.20944
50627	Q2Q067	P62258	0.8833
50628	Q2Q067	Q13148	0.5022
50629	Q2Q067	Q7Z6B0	0.25012
50630	Q2Q067	O95257	0.24277
50631	Q2Q067	Q6NS38	0.2331
50632	Q2Q067	A6NN90	0.070821
50633	Q2Q067	P10073	0.19323
50634	Q2Q067	A6NK39	0.17929
50635	Q2Q067	Q5I0X4	0.29573
50636	Q2Q067	Q52LR7	0.39053
50637	Q2Q067	O75145	0.3839
50638	Q2Q067	Q4VX62	0.040805
50639	Q2Q067	Q96JZ2	0.40655
50640	Q2Q067	Q8WUE5	0.039346
50641	Q2Q067	Q9BYG5	0.64098
50642	Q2Q067	Q6PGQ7	0.69013
50643	Q2Q067	Q7Z460	0.37141
50644	Q2Q067	O75940	0.61947
50645	Q2Q067	O14503	0.93756
50646	Q2Q067	Q9HAZ2	0.35867
50647	Q2Q067	Q6ZUJ4	0.18391
50648	Q2Q067	P36402	0.52095
50649	Q2Q067	O43159	0.78443
50650	Q2Q067	Q6ZR85	0.19215
50651	Q2Q067	Q7Z589	0.61115
50652	Q2Q067	Q9P2M7	0.42199
50653	Q2Q067	Q9BWG6	0.24343
50654	Q2Q067	Q12872	0.39866
50655	Q2Q067	Q8IZW8	0.29235
50656	Q2Q067	P63151	0.40284
50657	Q2Q067	Q16666	0.61541
50658	Q2Q067	Q6ZQP7	0.19215
50659	Q2Q067	P46937	0.80691
50660	Q2Q067	Q9UKX2	0.15564
50661	Q2Q067	Q15910	0.43964
50662	Q2Q067	Q8NCU1	0.10104
50663	Q2Q067	Q8N0Y7	0.37579
50664	Q2Q067	Q8IVM0	0.47001
50665	Q2Q067	Q9NR55	0.39056
50666	Q2Q067	O00193	0.54789
50667	Q2Q067	Q9NPJ8	0.11252
50668	Q2Q067	Q16533	0.47122
50669	Q2Q067	O75167	0.14846
50670	Q2Q067	Q8N2N9	0.24591
50671	Q2Q067	O43447	0.58868
50672	Q2Q067	O75151	0.60009
50673	Q2Q067	Q16775	0.15797
50674	Q2Q067	Q9Y3T9	1.0427
50675	Q2Q067	Q14690	0.60477
50676	Q2Q067	O60481	0.41087
50677	Q2Q067	P38432	0.70413
50678	Q2Q067	Q6IE81	1.0884
50679	Q2Q067	Q7KZF4	0.89741
50680	Q2Q067	Q96QA5	0.063067
50681	Q2Q067	Q92636	0.2383
50682	Q2Q067	P62273	0.62974
50683	Q2Q067	P67809	0.61143
50684	Q2Q067	Q9BQD3	0.34344
50685	Q2Q067	Q12982	0.21654
50686	Q2Q067	O95402	1.074
50687	Q2Q067	Q6PD62	0.61136
50688	Q2Q067	Q9BRT7	0.19215
50689	Q2Q067	Q13485	0.66858
50690	Q2Q067	P13929	0.16413
50691	Q2Q067	P09913	0.56698
50692	Q2Q067	Q8TF09	0.20659



50693	Q2Q067	A6NGD5	0.14982
50694	Q2Q067	Q9Y2B5	0.30342
50695	Q2Q067	Q6ZTU2	0.48197
50696	Q2Q067	Q6ZUT1	0.19215
50697	Q2Q067	Q9UHQ7	0.3414
50698	Q2Q067	Q96DX5	1.0354
50699	Q2Q067	Q5SXM1	0.16388
50700	Q2Q067	Q9BRA2	0.48685
50701	Q2Q067	A2RUQ5	0.006992
50702	Q2Q067	Q01543	0.41566
50703	Q2Q067	O75334	0.48165
50704	Q2Q067	Q9Y285	0.34673
50705	Q2Q067	O43734	0.29573
50706	Q2Q067	Q6ZS52	0.19215
50707	Q2Q067	O00287	0.36415
50708	Q2Q067	Q6IV72	0.15254
50709	Q2Q067	A8MVS1	0.2324
50710	Q2Q067	O95886	0.22198
50711	Q2Q067	Q9UNS1	0.52015
50712	Q2Q067	Q96K17	0.25699
50713	Q2Q067	Q9HAJ7	0.72841
50714	Q2Q067	O14639	0.51637
50715	Q2Q067	P10589	0.2603
50716	Q2Q067	Q3LI64	0.19215
50717	Q2Q067	Q8N2I2	0.11047
50718	Q2Q067	Q8N999	0.14222
50719	Q2Q067	Q8N3V7	0.31798
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50721	Q2Q067	Q6ECI4	0.14687
50722	Q2Q067	P63313	0.34514
50723	Q2Q067	P62837	0.53228
50724	Q2Q067	Q9UC07	0.11961
50725	Q2Q067	Q9NSC5	0.40811
50726	Q2Q067	O14974	0.28951
50727	Q2Q067	P46087	0.67093
50728	Q2Q067	P35680	0.29203
50729	Q2Q067	Q9NX58	0.14931
50730	Q2Q067	Q05BU3	0.19215
50731	Q2Q067	P53804	0.65686
50732	Q2Q067	P38646	0.52131
50733	Q2Q067	Q8WU58	0.071927
50734	Q2Q067	Q14549	0.3497
50735	Q2Q067	P51665	0.28864
50736	Q2Q067	Q8I WV8	0.19345
50737	Q2Q067	P55735	0.60413
50738	Q2Q067	Q9P0U4	0.25659
50739	Q2Q067	Q8NDD1	0.042204
50740	Q2Q067	Q9H9D4	0.53405
50741	Q2Q067	Q12986	0.19805
50742	Q2Q067	Q9Y2L1	0.52771
50743	Q2Q067	P55795	0.060059
50744	Q2Q067	Q6P6B1	0.29573
50745	Q2Q067	A6NJ64	0.079595
50746	Q2Q067	Q9NR48	0.25973
50747	Q2Q067	Q9Y3C4	0.29856
50748	Q2Q067	Q5VWQ0	0.69023
50749	Q2Q067	Q01130	0.72983
50750	Q2Q067	Q496A3	0.092627
50751	Q2Q067	A6NES4	0.15278
50752	Q2Q067	Q9HCN2	0.19215
50753	Q2Q067	Q5JQC4	0.19215
50754	Q2Q067	Q9UI56	0.19215
50755	Q2Q067	P31274	0.14312
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50757	Q2Q067	P13056	0.62814
50758	Q2Q067	Q14674	0.25361
50759	Q2Q067	Q9UJK0	0.52429
50760	Q2Q067	Q9NPI6	0.97572
50761	Q2Q067	Q9NVN8	0.27062
50762	Q2Q067	Q8N0Z6	0.24265
50763	Q2Q067	Q9H2T7	0.32281
50764	Q2Q067	O75694	0.63148
50765	Q2Q067	Q9HCH0	0.62636
50766	Q2Q067	Q8IXK0	0.18945
50767	Q2Q067	Q9C0F0	0.3175
50768	Q2Q067	Q9P000	0.15956

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50770	Q2Q067	P31268	0.33074
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50773	Q2Q067	Q9Y2R9	0.50788
50774	Q2Q067	Q6ZT77	0.10945
50775	Q2Q067	Q9BYP9	0.34715
50776	Q2Q067	Q86TX2	0.12431
50777	Q2Q067	Q8IUE1	0.32768
50778	Q2Q067	Q9H1B4	0.3004
50779	Q2Q067	Q86XL3	0.23482
50780	Q2Q067	Q5VSD8	0.12143
50781	Q2Q067	Q9UJT2	0.43475
50782	Q2Q067	Q9UHF7	0.49599
50783	Q2Q067	O43516	0.18712
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50785	Q2Q067	Q15323	0.16267
50786	Q2Q067	P62318	0.84614
50787	Q2Q067	P62826	0.66768
50788	Q2Q067	O43189	0.44104
50789	Q2Q067	Q99816	0.43689
50790	Q2Q067	Q96ST8	0.56668
50791	Q2Q067	Q8IVN3	0.4066
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50793	Q2Q067	Q96GY3	0.46738
50794	Q2Q067	P62508	0.46129
50795	Q2Q067	Q9BZQ8	0.32218
50796	Q2Q067	Q6XQN6	0.2015
50797	Q2Q067	Q92797	0.68324
50798	Q2Q067	Q6P1J9	0.62418
50799	Q2Q067	Q9ULD5	0.062315
50800	Q2Q067	Q6AI39	0.33904
50801	Q2Q067	P51508	0.10324
50802	Q2Q067	Q9BQA1	0.9983
50803	Q2Q067	Q9UBB5	1.1786
50804	Q2Q067	Q14CZ0	0.74667
50805	Q2Q067	Q0PNE2	0.33673
50806	Q2Q067	Q14590	0.087195
50807	Q2Q067	Q93015	0.29439
50808	Q2Q067	A6NDD8	0.3158
50809	Q2Q067	Q17RN3	0.10332
50810	Q2Q067	F5H4B4	0.42889
50811	Q2Q067	Q8TF40	0.45661
50812	Q2Q067	Q9BRP4	0.40677
50813	Q2Q067	Q9Y3V2	0.81743
50814	Q2Q067	A5YKK6	1.0576
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50816	Q2Q067	Q15596	0.62232
50817	Q2Q067	P48380	0.33275
50818	Q2Q067	Q8WVM0	0.53637
50819	Q2Q067	O95295	0.43916
50820	Q2Q067	Q9H2U6	0.10589
50821	Q2Q067	O14813	0.33768
50822	Q2Q067	Q9BSW2	0.75194
50823	Q2Q067	Q08E93	0.19215
50824	Q2Q067	Q69YL0	0.19215
50825	Q2Q067	Q13405	0.64337
50826	Q2Q067	Q9NTW7	0.22405
50827	Q2Q067	Q9Y606	0.66525
50828	Q2Q067	P08779	0.73022
50829	Q2Q067	Q16656	0.38036
50830	Q2Q067	Q9Y2Y9	0.75393
50831	Q2Q067	Q96NG8	0.11072
50832	Q2Q067	Q96GC5	0.64337
50833	Q2Q067	Q9HCK5	0.70956
50834	Q2Q067	Q5TC04	0.013253
50835	Q2Q067	P35712	0.55247
50836	Q2Q067	Q6ZNO6	0.22154
50837	Q2Q067	Q9UHL3	0.012028
50838	Q2Q067	Q6NVV1	0.18467
50839	Q2Q067	Q15233	0.57138
50840	Q2Q067	Q13829	0.71763
50841	Q2Q067	O95751	0.56499
50842	Q2Q067	Q6VY07	0.58097
50843	Q2Q067	Q9NXZ1	0.15082
50844	Q2Q067	P41182	0.19432

50845	Q2Q067	Q9Y2X9	0.61743
50846	Q2Q067	P19474	0.37901
50847	Q2Q067	Q15554	0.475
50848	Q2Q067	P54259	0.86885
50849	Q2Q067	Q5W111	0.043034
50850	Q2Q067	Q8WWY3	0.36663
50851	Q2Q067	Q9H5H4	0.10741
50852	Q2Q067	Q99497	0.11091
50853	Q2Q067	I6L9F6	0.11246
50854	Q2Q067	Q86VX2	0.42881
50855	Q2Q067	Q5SQN1	0.28062
50856	Q2Q067	P10828	0.51689
50857	Q2Q067	Q96BZ8	0.29573
50858	Q2Q067	P82930	0.39251
50859	Q2Q067	Q96AE4	0.56102
50860	Q2Q067	Q12988	0.35026
50861	Q2Q067	Q15562	0.84489
50862	Q2Q067	Q9GZS3	1.1095
50863	Q2Q067	P15880	1.0109
50864	Q2Q067	Q96R06	0.86521
50865	Q2Q067	Q8N9K7	0.19215
50866	Q2Q067	P40429	0.7867
50867	Q2Q067	Q8IZU1	0.32741
50868	Q2Q067	Q5MJ09	0.07779
50869	Q2Q067	O60260	0.44894
50870	Q2Q067	Q8NE18	0.72254
50871	Q2Q067	Q9P2H0	0.28783
50872	Q2Q067	Q9BYN8	0.45686
50873	Q2Q067	P30793	0.16239
50874	Q2Q067	A6NJR5	0.23617
50875	Q2Q067	O94818	0.54789
50876	Q2Q067	Q9NUL3	0.61088
50877	Q2Q067	Q9H074	0.46652
50878	Q2Q067	Q460N3	0.2508
50879	Q2Q067	O96019	0.89356
50880	Q2Q067	Q9HC52	0.78769
50881	Q2Q067	Q9H1H9	0.44235
50882	Q2Q067	Q01664	0.59316
50883	Q2Q067	Q9UDY8	0.24277
50884	Q2Q067	Q9BXH1	0.34828
50885	Q2Q067	P60371	0.34715
50886	Q2Q067	Q9BU76	0.40566
50887	Q2Q067	P55197	1.3702
50888	Q2Q067	Q5JTD0	0.96483
50889	Q2Q067	Q9UF83	0.12181
50890	Q2Q067	Q8NBB4	0.10279
50891	Q2Q067	Q06265	0.074678
50892	Q2Q067	Q9NUP1	0.67061
50893	Q2Q067	Q9BUL9	0.97869
50894	Q2Q067	O00570	0.88029
50895	Q2Q067	P28072	0.50319
50896	Q2Q067	Q6A162	0.12452
50897	Q2Q067	Q9GZS1	0.3579
50898	Q2Q067	Q8N3X6	0.48739
50899	Q2Q067	Q7Z4G1	0.81276
50900	Q2Q067	Q6ZUT4	0.31485
50901	Q2Q067	Q8N814	0.45016
50902	Q2Q067	P61024	0.63428
50903	Q2Q067	P0DI83	0.34546
50904	Q2Q067	Q96JI7	0.54765
50905	Q2Q067	P82979	0.35432
50906	Q2Q067	Q9UBB6	0.2024
50907	Q2Q067	Q14159	0.62808
50908	Q2Q067	Q9BRQ6	0.67393
50909	Q2Q067	P09132	0.32235
50910	Q2Q067	Q8IZ63	0.19215
50911	Q2Q067	Q96H40	0.22807
50912	Q2Q067	Q9Y6E7	0.37851
50913	Q2Q067	P49910	0.70866
50914	Q2Q067	Q6P1X6	0.3233
50915	Q2Q067	Q9P0M2	0.10037
50916	Q2Q067	Q8N5U6	1.072
50917	Q2Q067	O14604	0.36209
50918	Q2Q067	Q9ULC6	0.53444
50919	Q2Q067	Q15326	1.2007
50920	Q2Q067	I3L1I5	0.23961

50921	Q2Q067	A6NCD4	0.12554
50922	Q2Q067	Q9NWU5	0.31991
50923	Q2Q067	Q9NZV7	0.26783
50924	Q2Q067	Q96IS3	0.19365
50925	Q2Q067	Q9P299	0.14226
50926	Q2Q067	Q86UQ8	0.39593
50927	Q2Q067	O95243	0.69212
50928	Q2Q067	O95801	0.11363
50929	Q2Q067	P18847	1.2352
50930	Q2Q067	Q9NWN3	0.1566
50931	Q2Q067	Q9UHX1	0.60346
50932	Q2Q067	P49427	0.3813
50933	Q2Q067	Q9HA90	0.29573
50934	Q2Q067	Q14684	0.20074
50935	Q2Q067	P0CJ87	0.27517
50936	Q2Q067	Q8N7X2	0.19215
50937	Q2Q067	Q8TEV9	0.29626
50938	Q2Q067	P51531	0.63605
50939	Q2Q067	Q8WZA9	0.29573
50940	Q2Q067	P60660	0.27881
50941	Q2Q067	P53990	0.48207
50942	Q2Q067	Q5VTL8	0.40188
50943	Q2Q067	Q9NPG3	0.87003
50944	Q2Q067	Q99708	0.6494
50945	Q2Q067	A0PJX2	0.18467
50946	Q2Q067	Q96FJ8	0.19215
50947	Q2Q067	P08729	1.4125
50948	Q2Q067	P10515	0.36792
50949	Q2Q067	Q8N9N5	0.22482
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50952	Q2Q067	Q32MQ0	0.32623
50953	Q2Q067	P49716	0.43022
50954	Q2Q067	Q8WYR4	0.32597
50955	Q2Q067	P41970	0.90765
50956	Q2Q067	P57076	0.14907
50957	Q2Q067	Q8N684	0.43159
50958	Q2Q067	Q8N7L0	0.12804
50959	Q2Q067	O75807	0.44729
50960	Q2Q067	Q9HAF1	1.0414
50961	Q2Q067	Q6P2D0	0.095999
50962	Q2Q067	Q86X83	0.28783
50963	Q2Q067	Q9HCL3	0.2406
50964	Q2Q067	O43805	0.51752
50965	Q2Q067	Q3C1V9	0.15384
50966	Q2Q067	P46782	0.52651
50967	Q2Q067	Q6U7Q0	0.10668
50968	Q2Q067	Q93083	0.18499
50969	Q2Q067	P78385	0.1632
50970	Q2Q067	Q8NAB5	0.19215
50971	Q2Q067	Q14204	0.3083
50972	Q2Q067	Q9NSQ0	0.16808
50973	Q2Q067	P57060	0.30098
50974	Q2Q067	Q8WTT2	0.14455
50975	Q2Q067	Q7Z4Q2	0.41883
50976	Q2Q067	C9J302	0.19051
50977	Q2Q067	Q6ZSN7	0.12388
50978	Q2Q067	Q8IVM7	0.19215
50979	Q2Q067	Q7Z7A3	0.59907
50980	Q2Q067	P0CW21	0.19215
50981	Q2Q067	Q13111	1.0018
50982	Q2Q067	Q96LJ8	0.25736
50983	Q2Q067	Q8WXF8	0.84218
50984	Q2Q067	Q5SW79	0.7589
50985	Q2Q067	A6NIX2	1.0036
50986	Q2Q067	G3V211	0.40883
50987	Q2Q067	Q9UKJ3	0.39207
50988	Q2Q067	O75865	0.30975
50989	Q2Q067	Q9Y5Q8	0.68039
50990	Q2Q067	Q86VY4	0.47962
50991	Q2Q067	P22033	0.20874
50992	Q2Q067	Q9BRJ2	0.31691
50993	Q2Q067	Q8TD23	0.51835
50994	Q2Q067	Q8N137	0.78742
50995	Q2Q067	Q9BW11	0.37545
50996	Q2Q067	A1L429	0.019044

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50998	Q2Q067	O00762	0.52837
50999	Q2Q067	Q9HAB8	0.28376
51000	Q2Q067	Q9Y244	0.32215
51001	Q2Q067	Q5PSV4	0.35681
51002	Q2Q067	Q6PD74	0.24076
51003	Q2Q067	P13349	0.33049
51004	Q2Q067	Q9UJG1	0.43623
51005	Q2Q067	Q8ND07	0.40143
51006	Q2Q067	Q8IUC1	0.16378
51007	Q2Q067	P0DL12	0.16593
51008	Q2Q067	Q7Z3Z0	0.23725
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51011	Q2Q067	Q9Y312	0.079991
51012	Q2Q067	Q9UI30	0.339
51013	Q2Q067	Q96B49	0.3098
51014	Q2Q067	A6NIE6	0.28619
51015	Q2Q067	Q9NV31	0.85286
51016	Q2Q067	Q96B23	0.49034
51017	Q2Q067	Q9Y2X8	0.22096
51018	Q2Q067	P10155	0.41704
51019	Q2Q067	Q96DC7	0.5972
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51021	Q2Q067	Q96SK3	0.14687
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51023	Q2Q067	Q96IT1	0.64563
51024	Q2Q067	Q147U1	0.11372
51025	Q2Q067	Q15697	0.46776
51026	Q2Q067	O43255	0.34072
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51028	Q2Q067	Q96LW1	0.22688
51029	Q2Q067	Q96P71	0.47123
51030	Q2Q067	Q9NZL3	0.6383
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51032	Q2Q067	Q9Y2J8	0.38199
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51034	Q2Q067	Q8N0Z3	0.46631
51035	Q2Q067	Q8WV92	0.23327
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51037	Q2Q067	O95400	0.73093
51038	Q2Q067	P35268	0.67288
51039	Q2Q067	Q8TBY8	0.26354
51040	Q2Q067	Q9Y6M1	0.34676
51041	Q2Q067	O94927	0.45285
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51043	Q2Q067	O43390	0.54895
51044	Q2Q067	Q9HBM1	0.69818
51045	Q2Q067	Q15059	1.1367
51046	Q2Q067	Q53SZ7	0.29573
51047	Q2Q067	Q8WXU2	0.71405
51048	Q2Q067	A8MYP8	0.15024
51049	Q2Q067	Q9UL49	0.24991
51050	Q2Q067	Q7Z6R9	0.32732
51051	Q2Q067	Q8N398	0.27203
51052	Q2Q067	Q8HWS3	0.26676
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51057	Q2Q067	O75794	0.50176
51058	Q2Q067	Q9BXM0	0.61991
51059	Q2Q067	P60409	0.34715
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51061	Q2Q067	Q8N1B3	0.57535
51062	Q2Q067	P08151	0.29798
51063	Q2Q067	Q9BZE3	0.46596
51064	Q2Q067	Q969F9	0.59662
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51079	Q2Q067	Q9H211	0.74533
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51083	Q2Q067	P56181	0.27543
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51098	Q2Q067	Q96CM4	0.027173
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51103	Q2Q067	A6NNH0	0.42645
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51105	Q2Q067	Q86UU0	0.71419
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51109	Q2Q067	Q9UJW0	0.46824
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51116	Q2Q067	Q49AS3	0.071261
51117	Q2Q067	Q9P206	0.37524
51118	Q2Q067	P78406	0.49064
51119	Q2Q067	Q8N8G6	0.071687
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51125	Q2Q067	P05813	0.081456
51126	Q2Q067	P37275	0.78485
51127	Q2Q067	Q70Z53	0.62556
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51129	Q2Q067	O00273	0.28887
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51168	Q2Q067	Q460N5	0.31041
51169	Q2Q067	Q8NDW4	0.11252
51170	Q2Q067	Q9NRN7	0.42659
51171	Q2Q067	A6NKD9	0.6484
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51174	Q2Q067	A6NGG3	0.19215
51175	Q2Q067	O00257	0.94276
51176	Q2Q067	Q8NDF8	0.27957
51177	Q2Q067	Q2NL82	0.2207
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51182	Q2Q067	Q9P1D8	0.19215
51183	Q2Q067	O75820	0.076987
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51208	Q2Q067	P49770	0.23477
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51237	Q2Q067	Q9BYR0	0.34715
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51239	Q2Q067	Q8N7B6	0.19165
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51253	Q2Q067	Q96C86	0.89985
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51256	Q2Q067	P30279	0.70512
51257	Q2Q067	Q92870	0.70196
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51259	Q2Q067	P30084	0.17267
51260	Q2Q067	Q6P9A1	0.19035
51261	Q2Q067	Q13868	0.60425
51262	Q2Q067	Q12933	0.61278
51263	Q2Q067	Q9NWD9	0.26682
51264	Q2Q067	Q6ZNE5	0.33497
51265	Q2Q067	Q96MA1	0.16114
51266	Q2Q067	Q8TAB7	0.43978
51267	Q2Q067	A8MQ03	0.26889
51268	Q2Q067	Q16633	0.60416
51269	Q2Q067	Q9ULV5	0.41665
51270	Q2Q067	O43639	0.38531
51271	Q2Q067	Q9HAN9	0.19872
51272	Q2Q067	Q8TEV8	0.19215
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51275	Q2Q067	P62140	0.72381
51276	Q2Q067	Q8IXT2	0.024199
51277	Q2Q067	Q9UKY7	0.44099
51278	Q2Q067	Q96PQ6	0.24081
51279	Q2Q067	Q86SE9	1.0134
51280	Q2Q067	Q9Y3B6	0.38138
51281	Q2Q067	Q9UHC1	0.4197
51282	Q2Q067	Q8N782	0.22914
51283	Q2Q067	Q6P1M3	0.83943
51284	Q2Q067	Q9NSD9	0.39523
51285	Q2Q067	Q969S2	0.071613
51286	Q2Q067	B1AMM8	0.10475
51287	Q2Q067	Q5T1C6	0.33137
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51290	Q2Q067	Q96NL3	0.12037
51291	Q2Q067	Q6NXT1	0.33708
51292	Q2Q067	Q96B36	0.81015
51293	Q2Q067	O60238	0.19067
51294	Q2Q067	Q96B01	0.54081
51295	Q2Q067	Q96HG1	0.19215
51296	Q2Q067	Q4W5G0	0.21381
51297	Q2Q067	P26641	0.45788
51298	Q2Q067	Q13625	0.37536
51299	Q2Q067	Q8WTR7	0.62849
51300	Q2Q067	Q6P1N0	0.23728



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51302	Q2Q067	Q13547	0.82322
51303	Q2Q067	Q6PI26	1.1443
51304	Q2Q067	A8MV65	0.39593
51305	Q2Q067	Q6ZSJ8	0.29573
51306	Q2Q067	Q9NP66	1.0069
51307	Q2Q067	Q14511	0.63404
51308	Q2Q067	Q9UP83	1.2689
51309	Q2Q067	Q05195	0.55058
51310	Q2Q067	P08238	0.62824
51311	Q2Q067	Q8TAW3	0.12685
51312	Q2Q067	Q96AV8	0.33531
51313	Q2Q067	Q6ZTZ1	0.1662
51314	Q2Q067	Q5T5F5	0.19215
51315	Q2Q067	P38919	0.23137
51316	Q2Q067	Q9BTT4	0.63393
51317	Q2Q067	Q9BXX3	0.25565
51318	Q2Q067	P63167	1.4147
51319	Q2Q067	P0C867	0.13702
51320	Q2Q067	P51815	0.097938
51321	Q2Q067	P14373	0.23549
51322	Q2Q067	Q8N6F7	0.31193
51323	Q2Q067	Q5VWX1	0.68611
51324	Q2Q067	P0DM35	0.42541
51325	Q2Q067	Q9UJY1	0.41943
51326	Q2Q067	Q14103	0.83961
51327	Q2Q067	Q9UIS9	0.51543
51328	Q2Q067	P78358	0.47001
51329	Q2Q067	O43752	0.067951
51330	Q2Q067	P55345	0.3446
51331	Q2Q067	O60506	0.3481
51332	Q2Q067	A5LHX3	0.30339
51333	Q2Q067	Q96MF4	0.19092
51334	Q2Q067	O00712	0.2268
51335	Q2Q067	Q8NF67	0.25537
51336	Q2Q067	P22061	0.21052
51337	Q2Q067	Q9NZI5	0.4457
51338	Q2Q067	Q8N9H6	0.083116
51339	Q2Q067	Q99990	0.54172
51340	Q2Q067	Q9BYC8	0.44271
51341	Q2Q067	Q93074	0.4745
51342	Q2Q067	Q8TF20	0.15472
51343	Q2Q067	Q6ICC9	0.24396
51344	Q2Q067	Q9UGC7	0.18502
51345	Q2Q067	Q01201	1.0626
51346	Q2Q067	P34949	0.13199
51347	Q2Q067	Q6UUV9	1.4899
51348	Q2Q067	Q9HB58	0.24792
51349	Q2Q067	Q9UBU9	0.49442
51350	Q2Q067	Q6ZR52	0.16589
51351	Q2Q067	Q9BSB4	0.25531
51352	Q2Q067	Q00534	0.16164
51353	Q2Q067	Q8IYA8	0.29573
51354	Q2Q067	Q7Z6G3	0.36954
51355	Q2Q067	O60930	0.22588
51356	Q2Q067	A3KN83	0.5167
51357	Q2Q067	P60604	0.22096
51358	Q2Q067	Q3B820	0.28732
51359	Q2Q067	Q5H9J7	0.46546
51360	Q2Q067	Q15528	1.1757
51361	Q2Q067	P0CB43	0.050495
51362	Q2Q067	Q99684	0.3657
51363	Q2Q067	P52741	0.13205
51364	Q2Q067	Q9P1Y5	0.26677
51365	Q2Q067	Q5TKA1	0.35625
51366	Q2Q067	Q9UDV7	0.085876
51367	Q2Q067	Q5FBB7	0.72076
51368	Q2Q067	Q9P1A6	0.16775
51369	Q2Q067	Q8N9P6	0.19215
51370	Q2Q067	P35244	0.55376
51371	Q2Q067	O00566	0.41428
51372	Q2Q067	P49450	0.25741
51373	Q2Q067	O14662	0.35498
51374	Q2Q067	P62888	0.77652
51375	Q2Q067	Q15006	0.27584
51376	Q2Q067	Q53FT3	0.22423

51377	Q2Q067	Q13884	0.42605
51378	Q2Q067	Q14814	0.57726
51379	Q2Q067	P39880	0.6071
51380	Q2Q067	O95347	0.34876
51381	Q2Q067	Q8N9V7	0.24893
51382	Q2Q067	Q93073	0.44152
51383	Q2Q067	Q13257	0.72968
51384	Q2Q067	Q8NFR7	0.26479
51385	Q2Q067	Q86XR8	0.98037
51386	Q2Q067	Q8IUR0	0.49239
51387	Q2Q067	P18850	0.64812
51388	Q2Q067	Q9NV88	0.57387
51389	Q2Q067	Q9UBP6	0.76859
51390	Q2Q067	Q6QNY0	0.46851
51391	Q2Q067	Q8TF68	0.068884
51392	Q2Q067	Q3KQV3	0.11652
51393	Q2Q067	O43617	0.26475
51394	Q2Q067	P50549	0.95391
51395	Q2Q067	P83436	0.3792
51396	Q2Q067	Q92990	0.060339
51397	Q2Q067	P32780	0.72187
51398	Q2Q067	Q99594	1.1492
51399	Q2Q067	Q9H777	0.23511
51400	Q2Q067	Q9BZV1	1.0068
51401	Q2Q067	Q86WB0	0.84294
51402	Q2Q067	Q96AQ6	0.50051
51403	Q2Q067	Q8N2Z9	0.53289
51404	Q2Q067	O94983	1.342
51405	Q2Q067	Q9H322	0.36356
51406	Q2Q067	A6NDE8	0.019044
51407	Q2Q067	Q8WUH2	0.63392
51408	Q2Q067	Q8IUW3	0.40712
51409	Q2Q067	Q8IUE0	0.32768
51410	Q2Q067	Q5JY77	0.47001
51411	Q2Q067	Q9XR5	0.28783
51412	Q2Q067	Q8N1N4	0.16378
51413	Q2Q067	Q9Y3D9	0.3707
51414	Q2Q067	P61573	0.36503
51415	Q2Q067	O00204	0.43043
51416	Q2Q067	O75208	0.25111
51417	Q2Q067	Q9P255	0.1589
51418	Q2Q067	Q8IZP0	0.2508
51419	Q2Q067	Q96FH0	0.21828
51420	Q2Q067	Q9H6T0	0.087135
51421	Q2Q067	P32969	0.88677
51422	Q2Q067	A6H8Y1	0.70245
51423	Q2Q067	Q09MP3	0.058385
51424	Q2Q067	O76031	0.30997
51425	Q2Q067	Q8NC26	0.18763
51426	Q2Q067	P17483	0.13846
51427	Q2Q067	Q6L8G5	0.19215
51428	Q2Q067	O95999	0.23471
51429	Q2Q067	Q9Y3C0	0.24973
51430	Q2Q067	P14316	0.97948
51431	Q2Q067	Q96EY5	0.23232
51432	Q2Q067	A8MT69	0.43813
51433	Q2Q067	Q6UYE1	0.46973
51434	Q2Q067	O43296	0.1152
51435	Q2Q067	Q86Y79	0.3086
51436	Q2Q067	P58004	0.15724
51437	Q2Q067	A6NKX1	0.19215
51438	Q2Q067	Q6R2W3	0.44069
51439	Q2Q067	Q76L83	0.47583
51440	Q2Q067	Q8NAX2	0.29573
51441	Q2Q067	O94776	1.0289
51442	Q2Q067	Q9H4T2	0.058453
51443	Q2Q067	Q9UBU7	0.077023
51444	Q2Q067	O15453	0.35671
51445	Q2Q067	P56555	0.54172
51446	Q2Q067	O15379	0.5597
51447	Q2Q067	O75486	0.54134
51448	Q2Q067	O15266	0.52908
51449	Q2Q067	P36956	0.23929
51450	Q2Q067	P0CG30	0.2324
51451	Q2Q067	P61970	0.39203
51452	Q2Q067	P62277	1.1246

51453	Q2Q067	Q99567	0.79612
51454	Q2Q067	Q8N1F7	0.60294
51455	Q2Q067	P18615	0.93209
51456	Q2Q067	Q9C0E2	0.85201
51457	Q2Q067	A6NFD8	0.28241
51458	Q2Q067	P60372	0.34715
51459	Q2Q067	Q8IWL3	0.48319
51460	Q2Q067	Q86WS4	0.19215
51461	Q2Q067	O95948	0.37793
51462	Q2Q067	Q8N1B4	0.47716
51463	Q2Q067	P56945	0.57099
51464	Q2Q067	O14709	0.16182
51465	Q2Q067	P0CL81	0.019044
51466	Q2Q067	Q99933	0.82086
51467	Q2Q067	P41134	0.31519
51468	Q2Q067	C9JBD0	0.29933
51469	Q2Q067	P41161	0.20842
51470	Q2Q067	Q08ER8	0.14861
51471	Q2Q067	P0C7M4	0.25814
51472	Q2Q067	Q5T681	0.38114
51473	Q2Q067	Q9UJT9	0.31311
51474	Q2Q067	Q9H1Z4	0.32989
51475	Q2Q067	Q13601	0.38006
51476	Q2Q067	Q86SZ2	0.3221
51477	Q2Q067	O60535	0.51608
51478	Q2Q067	Q9BQ87	0.39593
51479	Q2Q067	Q9UKN8	0.54599
51480	Q2Q067	Q14192	0.65721
51481	Q2Q067	Q5T5D7	0.13247
51482	Q2Q067	P13646	0.18021
51483	Q2Q067	P07900	0.61392
51484	Q2Q067	Q86UC2	0.20504
51485	Q2Q067	Q96EV8	0.2465
51486	Q2Q067	P56537	1.1743
51487	Q2Q067	Q9BWW4	0.47427
51488	Q2Q067	Q13123	0.48874
51489	Q2Q067	Q70EL1	0.33398
51490	Q2Q067	Q9H171	0.16258
51491	Q2Q067	P57723	0.40522
51492	Q2Q067	Q9NQX1	0.51532
51493	Q2Q067	P50616	0.29444
51494	Q2Q067	Q9HC77	0.76588
51495	Q2Q067	Q9UPV0	1.5272
51496	Q2Q067	Q7Z5D8	0.32756
51497	Q2Q067	Q03188	0.23296
51498	Q2Q067	Q9Y5R5	0.15414
51499	Q2Q067	Q9H098	0.40352
51500	Q2Q067	Q8TE76	0.15693
51501	Q2Q067	Q5SY85	0.12635
51502	Q2Q067	P05114	0.23888
51503	Q2Q067	Q92800	0.44805
51504	Q2Q067	Q96M61	0.28783
51505	Q2Q067	Q8IYB1	0.10399
51506	Q2Q067	O60318	0.30747
51507	Q2Q067	Q9BWK5	0.39148
51508	Q2Q067	Q86WR7	0.33983
51509	Q2Q067	Q6NZI2	1.1279
51510	Q2Q067	Q5VYV7	0.28783
51511	Q2Q067	Q96EZ8	0.78764
51512	Q2Q067	Q15633	0.87516
51513	Q2Q067	Q96S55	0.1724
51514	Q2Q067	Q6ZMW2	0.097854
51515	Q2Q067	Q9UNA4	0.29656
51516	Q2Q067	P53672	0.39249
51517	Q2Q067	Q8N5I9	0.29573
51518	Q2Q067	Q9H825	0.10872
51519	Q2Q067	P06748	0.44904
51520	Q2Q067	P30876	0.57966
51521	Q2Q067	Q107X0	0.34746
51522	Q2Q067	O14757	0.545
51523	Q2Q067	A8MUX0	0.11141
51524	Q2Q067	Q9UNH5	0.57225
51525	Q2Q067	P49789	0.54893
51526	Q2Q067	Q9NWX8	0.5884
51527	Q2Q067	Q7RTS7	0.16378
51528	Q2Q067	O95503	0.90908

51529	Q2Q067	Q8WU03	0.30493
51530	Q2Q067	P19387	0.474
51531	Q2Q067	Q8N699	0.27397
51532	Q2Q067	Q86XN7	0.29573
51533	Q2Q067	Q4LE39	0.91834
51534	Q2Q067	Q9NVX0	0.98487
51535	Q2Q067	Q86VX9	0.59741
51536	Q2Q067	Q9UER7	0.86986
51537	Q2Q067	Q6P1R3	0.28243
51538	Q2Q067	Q9C0B2	0.058025
51539	Q2Q067	P62241	0.65617
51540	Q2Q067	O00148	0.23552
51541	Q2Q067	Q86WV1	0.53429
51542	Q2Q067	Q16520	0.99622
51543	Q2Q067	P15976	0.29548
51544	Q2Q067	O95931	0.78662
51545	Q2Q067	P59991	0.40476
51546	Q2Q067	Q9UNL4	0.44852
51547	Q2Q067	Q9BWX5	0.33243
51548	Q2Q067	Q96G21	0.86474
51549	Q2Q067	Q8N5N4	0.19583
51550	Q2Q067	Q86X51	0.093973
51551	Q2Q067	Q6ZRI6	0.19455
51552	Q2Q067	Q8N8U2	0.41458
51553	Q2Q067	Q6L8H1	0.19215
51554	Q2Q067	Q96MY7	0.5595
51555	Q2Q067	Q8N7J2	0.51822
51556	Q2Q067	Q8N8K9	0.042224
51557	Q2Q067	Q9H307	0.64076
51558	Q2Q067	Q8N660	0.72826
51559	Q2Q067	Q9P2B4	0.25434
51560	Q2Q067	P40222	0.3161
51561	Q2Q067	O75347	0.60524
51562	Q2Q067	Q5T3J3	0.99943
51563	Q2Q067	Q9Y6X4	0.63552
51564	Q2Q067	O75586	0.71829
51565	Q2Q067	Q6P582	0.33705
51566	Q2Q067	Q8N196	0.70099
51567	Q2Q067	Q9Y2G9	0.39051
51568	Q2Q067	Q96JC9	0.97359
51569	Q2Q067	Q9H0E3	0.58496
51570	Q2Q067	F5GYI3	0.51184
51571	Q2Q067	Q9H8V8	0.19215
51572	Q2Q067	Q9BXW3	0.19215
51573	Q2Q067	Q66LE6	0.34277
51574	Q2Q067	O60356	0.49079
51575	Q2Q067	Q3KP66	0.52159
51576	Q2Q067	Q2M3W8	0.24938
51577	Q2Q067	Q15542	1.0491
51578	Q2Q067	Q15172	0.209
51579	Q2Q067	Q17RC7	0.19694
51580	Q2Q067	Q14686	0.27868
51581	Q2Q067	Q16626	0.056025
51582	Q2Q067	O15535	0.058453
51583	Q2Q067	Q9NXR1	0.3083
51584	Q2Q067	Q6MZP7	0.57419
51585	Q2Q067	P14136	0.11798
51586	Q2Q067	Q9P0M9	0.30628
51587	Q2Q067	Q6SJ96	0.24496
51588	Q2Q067	Q9H8Y8	0.28916
51589	Q2Q067	Q6H8Q1	0.28044
51590	Q2Q067	A6NHQ4	0.29095
51591	Q2Q067	Q69383	0.36503
51592	Q2Q067	O00423	0.37113
51593	Q2Q067	Q13200	0.50051
51594	Q2Q067	Q3LI83	0.39972
51595	Q2Q067	Q9BYQ5	0.34715
51596	Q2Q067	Q8TEL6	0.3881
51597	Q2Q067	Q7RTT5	0.12144
51598	Q2Q067	Q4VC44	0.29551
51599	Q2Q067	A6NCN2	0.16378
51600	Q2Q067	Q6ZP82	0.28783
51601	Q2Q067	Q03933	0.71603
51602	Q2Q067	Q8TDN6	0.28013
51603	Q2Q067	P28356	0.23273
51604	Q2Q067	Q9HCH5	0.54012

51605	Q2Q067	Q6ZU67	0.19686
51606	Q2Q067	P29966	0.52276
51607	Q2Q067	Q13432	0.37123
51608	Q2Q067	Q92754	0.53491
51609	Q2Q067	Q96I23	0.26103
51610	Q2Q067	Q96CN9	0.44998
51611	Q2Q067	O94842	0.64158
51612	Q2Q067	Q9ULN7	0.47117
51613	Q2Q067	Q6L8G9	0.19215
51614	Q2Q067	A8K8P3	0.75366
51615	Q2Q067	Q8N3J3	0.11159
51616	Q2Q067	Q9HC44	0.93086
51617	Q2Q067	Q96ST3	0.76474
51618	Q2Q067	O14628	0.21589
51619	Q2Q067	P58557	0.52167
51620	Q2Q067	Q9NSB4	0.17614
51621	Q2Q067	Q8TBC5	0.058453
51622	Q2Q067	Q15025	0.48873
51623	Q2Q067	Q9UBQ0	0.22655
51624	Q2Q067	Q5T7V8	1.0647
51625	Q2Q067	Q9UL16	0.11333
51626	Q2Q067	P61218	0.238
51627	Q2Q067	Q8IWP9	0.54093
51628	Q2Q067	O75570	0.18602
51629	Q2Q067	Q96RK0	0.97805
51630	Q2Q067	Q8N8G2	0.85361
51631	Q2Q067	Q9Y237	0.30914
51632	Q2Q067	A6ZKI3	0.24822
51633	Q2Q067	P62244	0.75691
51634	Q2Q067	Q86TU6	0.43187
51635	Q2Q067	O15350	0.34389
51636	Q2Q067	P05387	0.65612
51637	Q2Q067	Q5SXJ2	0.72826
51638	Q2Q067	Q6ZSS3	0.10643
51639	Q2Q067	Q8N9K3	0.29573
51640	Q2Q067	Q92759	0.66671
51641	Q2Q067	Q6ZRS2	0.33704
51642	Q2Q067	Q9BTK6	0.43906
51643	Q2Q067	P13073	0.11152
51644	Q2Q067	P35638	0.79814
51645	Q2Q067	Q5T5J6	0.48112
51646	Q2Q067	Q96EY4	0.24029
51647	Q2Q067	A1L443	0.54396
51648	Q2Q067	Q7L804	0.55959
51649	Q2Q067	Q9NY61	0.87278
51650	Q2Q067	Q8TDY2	0.85805
51651	Q2Q067	Q68DL7	0.19215
51652	Q2Q067	O75448	0.49164
51653	Q2Q067	Q96AH0	0.25041
51654	Q2Q067	Q9Y6J0	0.086745
51655	Q2Q067	Q9NVR2	0.92109
51656	Q2Q067	Q9NWM3	0.022228
51657	Q2Q067	Q96GX9	0.35808
51658	Q2Q067	Q92945	0.7916
51659	Q2Q067	P48444	0.38198
51660	Q2Q067	P54727	0.66024
51661	Q2Q067	Q9UFW8	0.36593
51662	Q2Q067	Q9NPI1	0.98674
51663	Q2Q067	Q96PS1	0.24529
51664	Q2Q067	Q9NQ48	0.21534
51665	Q2Q067	Q03252	0.30514
51666	Q2Q067	P41236	0.27377
51667	Q2Q067	P02511	0.38569
51668	Q2Q067	Q8IY42	0.62395
51669	Q2Q067	Q96ST2	0.16697
51670	Q2Q067	Q9Y2Z2	0.47355
51671	Q2Q067	Q9BY42	0.32207
51672	Q2Q067	I3L3R5	0.19215
51673	Q2Q067	P57075	0.29437
51674	Q2Q067	A6NL82	0.14181
51675	Q2Q067	P54198	1.0547
51676	Q2Q067	Q9H5F2	0.15819
51677	Q2Q067	Q6NXS1	0.42296
51678	Q2Q067	Q9UK76	0.45693
51679	Q2Q067	Q8WVR3	0.29573
51680	Q2Q067	Q7L5N1	1.1024

51681	Q2Q067	Q6ISB3	0.65972
51682	Q2Q067	A6NEY3	0.37471
51683	Q2Q067	Q8TDR4	0.1456
51684	Q2Q067	Q08378	0.28439
51685	Q2Q067	Q02447	0.50481
51686	Q2Q067	P25787	0.63799
51687	Q2Q067	Q5T653	0.2979
51688	Q2Q067	Q6ZR93	0.19215
51689	Q2Q067	O15040	0.28783
51690	Q2Q067	Q99909	0.12144
51691	Q2Q067	Q5VYM1	0.094766
51692	Q2Q067	Q6ZV77	0.19215
51693	Q2Q067	P52594	0.40922
51694	Q2Q067	Q86YF9	0.047542
51695	Q2Q067	A8MXZ3	0.19215
51696	Q2Q067	Q9NVS2	0.36613
51697	Q2Q067	Q9NQE9	0.31788
51698	Q2Q067	Q9NSD4	0.12553
51699	Q2Q067	Q8NBR6	0.8215
51700	Q2Q067	Q16534	0.19072
51701	Q2Q067	P37837	0.2728
51702	Q2Q067	Q14152	1.1237
51703	Q2Q067	Q2M1K9	0.26579
51704	Q2Q067	P62861	0.62997
51705	Q2Q067	Q04727	0.6205
51706	Q2Q067	Q6NT46	0.019044
51707	Q2Q067	Q8TDH9	0.15809
51708	Q2Q067	E9PAV3	0.23436
51709	Q2Q067	Q96T58	0.68595
51710	Q2Q067	Q8WY36	0.30214
51711	Q2Q067	P08107	0.57181
51712	Q2Q067	Q9C099	0.90062
51713	Q2Q067	Q8N1L9	0.91996
51714	Q2Q067	Q9P270	0.4152
51715	Q2Q067	O60244	0.5241
51716	Q2Q067	Q9H5P4	0.35833
51717	Q2Q067	A2RUB1	0.29573
51718	Q2Q067	Q5HYR2	0.51158
51719	Q2Q067	Q86YP4	0.81915
51720	Q2Q067	Q5BKX5	0.29573
51721	Q2Q067	Q05877	0.44533
51722	Q2Q067	H0YKK7	0.35087
51723	Q2Q067	Q96SC8	0.09819
51724	Q2Q067	Q9Y3Y4	0.58591
51725	Q2Q067	A6NEV1	0.26898
51726	Q2Q067	Q53HL2	0.90486
51727	Q2Q067	Q13522	0.11603
51728	Q2Q067	P52657	1.2277
51729	Q2Q067	A6NGK3	0.014778
51730	Q2Q067	Q6ZNA4	0.53595
51731	Q2Q067	O14896	0.51883
51732	Q2Q067	Q8IX12	0.94764
51733	Q2Q067	P42766	0.84323
51734	Q2Q067	Q06323	0.38843
51735	Q2Q067	Q9Y534	0.30532
51736	Q2Q067	A6NHQ2	0.14692
51737	Q2Q067	Q8TAA5	0.18761
51738	Q2Q067	P41218	0.58282
51739	Q2Q067	O00401	0.63747
51740	Q2Q067	Q5TH74	0.22525
51741	Q2Q067	Q96SN8	0.46256
51742	Q2Q067	P67775	0.7377
51743	Q2Q067	Q9NVF7	0.41087
51744	Q2Q067	Q96KD3	0.63352
51745	Q2Q067	O43684	0.69341
51746	Q2Q067	Q8NBT2	0.71527
51747	Q2Q067	O75683	0.30487
51748	Q2Q067	Q8NAV1	0.42622
51749	Q2Q067	Q8WUF5	0.83767
51750	Q2Q067	Q96HR8	0.85827
51751	Q2Q067	P17030	0.11003
51752	Q2Q067	Q9Y3R5	0.3434
51753	Q2Q067	P86496	0.19215
51754	Q2Q067	P51610	0.53119
51755	Q2Q067	O60927	0.40566
51756	Q2Q067	Q14934	0.50357

51757	Q2Q067	Q9H981	1.0513
51758	Q2Q067	Q86WP2	0.43952
51759	Q2Q067	Q9NUQ6	0.32989
51760	Q2Q067	Q9ULQ0	0.54306
51761	Q2Q067	A6NNL0	0.4993
51762	Q2Q067	Q504T8	0.15082
51763	Q2Q067	Q7Z3B4	0.84932
51764	Q2Q067	Q96K30	0.77794
51765	Q2Q067	P17031	0.12798
51766	Q2Q067	Q14457	0.50194
51767	Q2Q067	Q8TBK2	0.49261
51768	Q2Q067	Q7Z340	0.089995
51769	Q2Q067	P42704	1.0209
51770	Q2Q067	Q14532	0.095341
51771	Q2Q067	A6NLC8	0.64333
51772	Q2Q067	Q7L0Y3	0.88456
51773	Q2Q067	Q86UE3	0.1529
51774	Q2Q067	Q6ZMV5	0.23054
51775	Q2Q067	Q53TQ3	0.52874
51776	Q2Q067	O14910	0.61417
51777	Q2Q067	P09086	0.32347
51778	Q2Q067	Q5JTC6	0.47488
51779	Q2Q067	P04792	0.39356
51780	Q2Q067	P26447	0.27454
51781	Q2Q067	Q9H668	0.22561
51782	Q2Q067	P63279	0.78863
51783	Q2Q067	Q6ZR03	0.069256
51784	Q2Q067	O75362	0.74678
51785	Q2Q067	Q8N5D0	0.53453
51786	Q2Q067	Q96FX2	0.84723
51787	Q2Q067	Q6P656	0.0013873
51788	Q2Q067	Q96AB3	0.70499
51789	Q2Q067	O00189	0.23587
51790	Q2Q067	Q16670	0.14982
51791	Q2Q067	Q9BVV6	0.19215
51792	Q2Q067	Q96N95	0.24359
51793	Q2Q067	Q8N3U1	0.19215
51794	Q2Q067	Q9Y5A6	0.6937
51795	Q2Q067	Q9UBZ9	0.44017
51796	Q2Q067	B3EWG4	0.29573
51797	Q2Q067	Q92547	0.5473
51798	Q2Q067	A2RU37	0.0024558
51799	Q2Q067	Q9Y3Y2	0.66209
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51802	Q2Q067	Q8TF47	0.22688
51803	Q2Q067	Q86YC2	0.65438
51804	Q2Q067	Q9NPI7	0.011348
51805	Q2Q067	Q13158	0.46394
51806	Q2Q067	Q7Z3Y9	0.20138
51807	Q2Q067	Q9NQ29	0.40207
51808	Q2Q067	O75971	0.63552
51809	Q2Q067	Q86TS7	0.19215
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51811	Q2Q067	P05386	1.1616
51812	Q2Q067	Q5T160	0.37733
51813	Q2Q067	O75175	1.3889
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51815	Q2Q067	Q9Y291	0.29299
51816	Q2Q067	Q8ND90	0.67563
51817	Q2Q067	P17036	0.29645
51818	Q2Q067	Q6P435	0.11005
51819	Q2Q067	P49005	0.53807
51820	Q2Q067	Q7Z614	0.36101
51821	Q2Q067	O15117	0.44503
51822	Q2Q067	P53801	0.3061
51823	Q2Q067	O94993	0.21921
51824	Q2Q067	Q13838	0.13097
51825	Q2Q067	F8W1W9	0.10647
51826	Q2Q067	Q9ULJ3	0.5849
51827	Q2Q067	Q13415	0.25023
51828	Q2Q067	O14776	1.1053
51829	Q2Q067	Q9ULR0	0.45607
51830	Q2Q067	Q86V48	0.463
51831	Q2Q067	Q8TBE0	0.766
51832	Q2Q067	Q6VVB1	0.34427

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51834	Q2Q067	O95990	0.05789
51835	Q2Q067	P86479	0.19215
51836	Q2Q067	P17040	0.61696
51837	Q2Q067	Q96P70	0.9557
51838	Q2Q067	Q15560	1.0054
51839	Q2Q067	Q9P258	0.57237
51840	Q2Q067	P17676	0.85627
51841	Q2Q067	Q2QGD7	0.63202
51842	Q2Q067	Q9H019	0.24596
51843	Q2Q067	Q16531	0.62333
51844	Q2Q067	Q6U949	0.19215
51845	Q2Q067	Q86V97	0.37541
51846	Q2Q067	O95359	0.25184
51847	Q2Q067	Q5T280	0.60492
51848	Q2Q067	O95551	0.70051
51849	Q2Q067	Q9H320	0.4701
51850	Q2Q067	P17482	1.1273
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51852	Q2Q067	O00541	0.3554
51853	Q2Q067	P17010	0.2503
51854	Q2Q067	O95625	0.11121
51855	Q2Q067	Q96MD2	0.096693
51856	Q2Q067	P11308	0.53389
51857	Q2Q067	Q92837	0.47558
51858	Q2Q067	Q53H80	0.36625
51859	Q2Q067	P17038	0.16589
51860	Q2Q067	Q56P42	0.1321
51861	Q2Q067	Q9Y3B2	0.81126
51862	Q2Q067	Q8N5Y2	0.010509
51863	Q2Q067	Q49B96	0.18994
51864	Q2Q067	Q7L1Q6	0.30306
51865	Q2Q067	Q07955	0.57369
51866	Q2Q067	Q6PF06	0.40441
51867	Q2Q067	P59091	0.080353
51868	Q2Q067	Q08AD1	0.42372
51869	Q2Q067	Q9P0J6	0.31693
51870	Q2Q067	Q9BWJ5	0.22568
51871	Q2Q067	Q9Y2B4	0.18741
51872	Q2Q067	Q9Y4Z2	0.23396
51873	Q2Q067	Q9NTG7	0.44604
51874	Q2Q067	Q9UK12	0.10888
51875	Q2Q067	Q6I9Y2	0.79296
51876	Q2Q067	Q96LT7	0.32524
51877	Q2Q067	Q8WU90	0.82814
51878	Q2Q067	Q1MSJ5	0.58511
51879	Q2Q067	Q9NPD3	0.33603
51880	Q2Q067	Q96MH2	1.2105
51881	Q2Q067	Q9H7T3	0.1762
51882	Q2Q067	Q8WYN3	0.54101
51883	Q2Q067	Q9UDW3	0.24989
51884	Q2Q067	Q9NVK5	0.091575
51885	Q2Q067	P38935	0.42274
51886	Q2Q067	Q8NDY6	0.48324
51887	Q2Q067	E9PGG2	0.25814
51888	Q2Q067	Q9NYG5	0.77379
51889	Q2Q067	Q86TB9	0.86845
51890	Q2Q067	Q96CB8	0.47713
51891	Q2Q067	Q5BJF2	0.084686
51892	Q2Q067	Q9NYF8	1.202
51893	Q2Q067	P08047	0.82146
51894	Q2Q067	Q8NFB4	0.96831
51895	Q2Q067	Q8NEU8	0.34017
51896	Q2Q067	Q96DP5	0.20614
51897	Q2Q067	Q8TC21	0.11317
51898	Q2Q067	Q5VSR9	0.40408
51899	Q2Q067	Q8N5T8	0.32005
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51902	Q2Q067	Q13156	0.15449
51903	Q2Q067	Q7RTU5	0.37479
51904	Q2Q067	Q00978	0.98772
51905	Q2Q067	P15924	0.28022
51906	Q2Q067	O00458	0.4403
51907	Q2Q067	Q8NAV2	0.060335
51908	Q2Q067	Q99471	0.87157



51909	Q2Q067	Q63HM1	0.26003
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51912	Q2Q067	Q8TAB5	0.29573
51913	Q2Q067	Q9UHJ3	0.3157
51914	Q2Q067	Q7Z3Y7	0.26069
51915	Q2Q067	Q8NF91	0.46851
51916	Q2Q067	Q96C28	0.20379
51917	Q2Q067	O75928	0.75671
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51919	Q2Q067	O15355	0.85795
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51923	Q2Q067	Q9NPE3	0.69397
51924	Q2Q067	Q9BZI7	0.71832
51925	Q2Q067	Q3LI81	0.46381
51926	Q2Q067	Q96N16	0.47595
51927	Q2Q067	Q96RJ6	0.37545
51928	Q2Q067	Q3LI73	0.33745
51929	Q2Q067	O75182	1.1319
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51931	Q2Q067	Q13794	0.39809
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51933	Q2Q067	P22557	0.14376
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51939	Q2Q067	A6NHU5	0.046436
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51944	Q2Q067	Q15022	0.60427
51945	Q2Q067	O43829	0.5896
51946	Q2Q067	Q569K6	0.01004
51947	Q2Q067	Q96EK5	0.18336
51948	Q2Q067	P16415	0.14116
51949	Q2Q067	P35573	0.50123
51950	Q2Q067	Q5JVX7	0.36583
51951	Q2Q067	Q9BSM1	1.0132
51952	Q2Q067	P21953	0.032982
51953	Q2Q067	K7EJ46	0.19215
51954	Q2Q067	Q8NHM5	0.25829
51955	Q2Q067	Q5VVH5	0.5795
51956	Q2Q067	Q86Y25	0.11612
51957	Q2Q067	Q9BQ15	0.62943
51958	Q2Q067	Q9H9Y6	0.6483
51959	Q2Q067	Q6P1L8	0.47888
51960	Q2Q067	Q96KP1	0.23167
51961	Q2Q067	Q9Y2D8	0.62948
51962	Q2Q067	Q01892	0.37629
51963	Q2Q067	Q9BV47	0.30694
51964	Q2Q067	P0CG00	0.14982
51965	Q2Q067	A8MV24	0.20432
51966	Q2Q067	Q14790	0.2561
51967	Q2Q067	Q4G0A6	0.61435
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51969	Q2Q067	P60370	0.34715
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51972	Q2Q067	O95848	0.39895
51973	Q2Q067	Q8N5F7	1.304
51974	Q2Q067	Q96BW1	0.1321
51975	Q2Q067	Q96HB5	0.11635
51976	Q2Q067	Q5VWI1	0.61845
51977	Q2Q067	O95793	0.21619
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51979	Q2Q067	Q8N3S3	0.30002
51980	Q2Q067	P13196	0.24356
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51982	Q2Q067	Q92973	1.1537
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51986	Q2Q067	Q7Z6Z7	0.26428
51987	Q2Q067	Q92558	0.32937
51988	Q2Q067	Q6L8H4	0.19215
51989	Q2Q067	Q6PIJ6	0.41713
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51991	Q2Q067	Q14749	0.58985
51992	Q2Q067	P09017	0.13176
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52005	Q2Q067	Q6PEX3	0.173
52006	Q2Q067	Q9ULE4	0.16834
52007	Q2Q067	H3BR10	0.19215
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52009	Q2Q067	Q5BJF6	0.4207
52010	Q2Q067	Q504Q3	0.19513
52011	Q2Q067	Q9HB09	0.54165
52012	Q2Q067	Q6ZPA2	0.19215
52013	Q2Q067	Q8WUB8	0.33944
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52018	Q2Q067	Q495Z4	0.15603
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52026	Q2Q067	Q6P5X5	0.38205
52027	Q2Q067	Q9BQC3	0.49955
52028	Q2Q067	Q9GZR1	0.34325
52029	Q2Q067	Q8WYQ5	0.63894
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52031	Q2Q067	P0DKL9	0.34521
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52038	Q2Q067	Q9BWD3	0.38894
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52040	Q2Q067	O43542	0.51424
52041	Q2Q067	Q13129	0.71922
52042	Q2Q067	Q6BDS2	0.21707
52043	Q2Q067	Q9H7S9	0.70338
52044	Q2Q067	Q2M2Z5	0.60634
52045	Q2Q067	Q8N726	0.6017
52046	Q2Q067	O95394	0.42751
52047	Q2Q067	Q86UE4	0.34996
52048	Q2Q067	P11831	0.62072
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52060	Q2Q067	Q8WUY3	0.13288

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52062	Q2Q067	Q9H267	0.20356
52063	Q2Q067	P15172	0.34264
52064	Q2Q067	Q6IPT2	0.63352
52065	Q2Q067	Q06609	0.4263
52066	Q2Q067	P0C7T5	0.22651
52067	Q2Q067	P63010	0.4232
52068	Q2Q067	Q9H147	0.26255
52069	Q2Q067	Q3SXZ3	0.1161
52070	Q2Q067	Q86VP6	0.69972
52071	Q2Q067	Q9BV57	0.61675
52072	Q2Q067	A1A580	0.33745
52073	Q2Q067	O43248	0.30805
52074	Q2Q067	Q9Y2M2	0.18873
52075	Q2Q067	O94906	0.29907
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52081	Q2Q067	A6NHS1	0.24407
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52085	Q2Q067	Q14CW9	0.84061
52086	Q2Q067	Q96PC3	0.3056
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52092	Q2Q067	Q6ZS49	0.19215
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52103	Q2Q067	Q9Y3E5	0.53996
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52105	Q2Q067	Q3BBV1	0.72826
52106	Q2Q067	P12035	0.33029
52107	Q2Q067	Q96PT3	0.20973
52108	Q2Q067	Q96MR9	0.19951
52109	Q2Q067	P48378	0.30214
52110	Q2Q067	Q86TP1	0.74515
52111	Q2Q067	P80217	0.70076
52112	Q2Q067	Q9BZE9	0.45326
52113	Q2Q067	Q05DH4	0.51319
52114	Q2Q067	Q6PJT7	0.89072
52115	Q2Q067	P36871	0.16427
52116	Q2Q067	Q15561	0.89884
52117	Q2Q067	O96000	0.38297
52118	Q2Q067	Q8NEG0	0.11635
52119	Q2Q067	Q8NBZ0	1.2195
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52122	Q2Q067	Q96BV0	0.088474
52123	Q2Q067	O75446	0.82922
52124	Q2Q067	Q8IZL8	0.77769
52125	Q2Q067	Q5EBL4	0.37598
52126	Q2Q067	Q96LW7	0.35829
52127	Q2Q067	A8MTA8	0.041351
52128	Q2Q067	Q9UNK9	0.10793
52129	Q2Q067	Q96BF6	0.34443
52130	Q2Q067	Q9UBB4	0.47725
52131	Q2Q067	Q5H9M0	0.54367
52132	Q2Q067	O43776	0.27004
52133	Q2Q067	P11388	0.21876
52134	Q2Q067	Q9NP97	0.51119
52135	Q2Q067	Q9UJW3	0.62971
52136	Q2Q067	P28065	0.67176

52137	Q2Q067	P35227	0.7238
52138	Q2Q067	Q92979	0.3144
52139	Q2Q067	P54725	0.60679
52140	Q2Q067	Q6ZRV3	0.19215
52141	Q2Q067	A8MT65	0.21334
52142	Q2Q067	Q9P2B7	0.29573
52143	Q2Q067	A6NK53	0.12921
52144	Q2Q067	Q99873	0.58684
52145	Q2Q067	Q12962	1.1094
52146	Q2Q067	Q9H788	0.93512
52147	Q2Q067	Q9Y295	0.083135
52148	Q2Q067	Q9NZP6	0.53604
52149	Q2Q067	Q14669	0.30105
52150	Q2Q067	Q8WZA8	0.19215
52151	Q2Q067	P37802	0.31983
52152	Q2Q067	Q9Y5L0	0.93565
52153	Q2Q067	Q8TF74	0.37525
52154	Q2Q067	Q8N612	0.30099
52155	Q2Q067	P11166	0.56565
52156	Q2Q067	Q86TJ2	0.38905
52157	Q2Q067	Q9H693	0.31641
52158	Q2Q067	Q96GT9	0.34764
52159	Q2Q067	Q9NX18	0.76163
52160	Q2Q067	P28069	0.70744
52161	Q2Q067	P32189	0.075902
52162	Q2Q067	Q9BUY5	0.22248
52163	Q2Q067	Q86UL8	0.25899
52164	Q2Q067	Q96GU1	0.12303
52165	Q2Q067	Q09028	0.59745
52166	Q2Q067	O14818	0.67138
52167	Q2Q067	O60663	0.5435
52168	Q2Q067	Q15629	0.17994
52169	Q2Q067	P61077	0.49702
52170	Q2Q067	Q68EN5	0.022543
52171	Q2Q067	P07902	0.28639
52172	Q2Q067	P22674	0.32574
52173	Q2Q067	O14972	0.12028
52174	Q2Q067	Q5VY09	0.39148
52175	Q2Q067	Q9UKW6	0.46358
52176	Q2Q067	Q8IYA6	0.34279
52177	Q2Q067	P14635	0.28317
52178	Q2Q067	Q9P2T0	0.32695
52179	Q2Q067	Q86X53	0.015065
52180	Q2Q067	Q96QC0	0.69279
52181	Q2Q067	Q8N9Y4	0.5618
52182	Q2Q067	Q8TCH9	0.014743
52183	Q2Q067	P0CE67	0.19215
52184	Q2Q067	O43583	0.47232
52185	Q2Q067	P08727	0.52331
52186	Q2Q067	P58005	0.18393
52187	Q2Q067	P49756	0.36378
52188	Q2Q067	Q8IXM3	0.37574
52189	Q2Q067	Q3C1V1	0.29573
52190	Q2Q067	Q9BWN1	0.29573
52191	Q2Q067	Q9BYD9	0.11065
52192	Q2Q067	A6NGU7	0.029617
52193	Q2Q067	Q9UPP5	0.26085
52194	Q2Q067	O95049	0.43202
52195	Q2Q067	Q15424	0.73604
52196	Q2Q067	Q8N9P0	0.022434
52197	Q2Q067	P78545	0.80701
52198	Q2Q067	B2RXF5	0.26381
52199	Q2Q067	Q9BQI9	0.49528
52200	Q2Q067	Q7KZ85	0.43973
52201	Q2Q067	P23528	0.7641
52202	Q2Q067	P26196	0.52569
52203	Q2Q067	O00170	0.67949
52204	Q2Q067	Q8N3J9	0.092234
52205	Q2Q067	Q8N6T7	0.60063
52206	Q2Q067	Q9Y2P0	0.10893
52207	Q2Q067	P60369	0.34715
52208	Q2Q067	A6NCW3	0.48486
52209	Q2Q067	Q9Y3D3	0.64964
52210	Q2Q067	Q6ZRH3	0.11916
52211	Q2Q067	P09629	0.95676
52212	Q2Q067	Q92575	0.91112

52213	Q2Q067	O15069	0.26705
52214	Q2Q067	P63165	0.94553
52215	Q2Q067	Q9NS37	0.9139
52216	Q2Q067	Q9UHD9	0.76126
52217	Q2Q067	Q9BQG0	0.65151
52218	Q2Q067	O43156	0.28783
52219	Q2Q067	Q9Y2H8	0.10687
52220	Q2Q067	Q9NQ55	0.30746
52221	Q2Q067	O15304	1.0183
52222	Q2Q067	Q9BRP8	0.88626
52223	Q2Q067	Q5MNV8	0.21946
52224	Q2Q067	Q70YC4	0.38139
52225	Q2Q067	Q9UQR0	0.26021
52226	Q2Q067	Q8IV33	0.18863
52227	Q2Q067	Q96AQ7	0.54799
52228	Q2Q067	P52743	0.19186
52229	Q2Q067	Q9NYZ3	0.29936
52230	Q2Q067	Q99871	0.44212
52231	Q2Q067	Q5HYW2	0.37524
52232	Q2Q067	Q96QF0	0.55901
52233	Q2Q067	Q9Y2R5	0.23001
52234	Q2Q067	Q99627	0.35354
52235	Q2Q067	P58340	0.36825
52236	Q2Q067	Q96GN5	0.80438
52237	Q2Q067	Q9BUX1	0.76376
52238	Q2Q067	Q8WY50	0.19215
52239	Q2Q067	Q499Z4	0.12624
52240	Q2Q067	Q8N9A8	0.24698
52241	Q2Q067	Q10570	0.80815
52242	Q2Q067	Q04323	0.28937
52243	Q2Q067	P54845	0.32624
52244	Q2Q067	Q9Y248	0.69799
52245	Q2Q067	Q12996	0.1657
52246	Q2Q067	P18077	0.54068
52247	Q2Q067	O75886	1.1179
52248	Q2Q067	Q9NZQ3	0.68275
52249	Q2Q067	Q8IXH6	1.1569
52250	Q2Q067	Q9UND3	0.22989
52251	Q2Q067	Q8N8A2	0.28783
52252	Q2Q067	Q9UBS4	0.18138
52253	Q2Q067	P42568	0.88643
52254	Q2Q067	Q9NXE8	0.23818
52255	Q2Q067	Q15937	0.09883
52256	Q2Q067	Q9BV90	0.017889
52257	Q2Q067	Q9Y2A0	0.12175
52258	Q2Q067	Q9Y4A8	0.55723
52259	Q2Q067	Q96A04	0.47507
52260	Q2Q067	B3EWF7	0.19215
52261	Q2Q067	Q9BXC8	0.4808
52262	Q2Q067	Q9BTX9	0.46063
52263	Q2Q067	P62891	0.65612
52264	Q2Q067	Q9ULK4	1.2089
52265	Q2Q067	O95873	0.29573
52266	Q2Q067	Q68DK2	0.74516
52267	Q2Q067	Q00444	0.30046
52268	Q2Q067	A6NN06	0.19215
52269	Q2Q067	Q96AQ9	0.18349
52270	Q2Q067	Q8TEP8	0.79058
52271	Q2Q067	Q86XI2	0.44202
52272	Q2Q067	Q6ZVD7	0.24679
52273	Q2Q067	Q9H6Y2	0.35417
52274	Q2Q067	Q7Z2W4	0.40411
52275	Q2Q067	P27695	0.49683
52276	Q2Q067	Q15723	1.2601
52277	Q2Q067	Q7Z3E2	0.22303
52278	Q2Q067	Q9UBC3	0.23372
52279	Q2Q067	Q5T871	0.19215
52280	Q2Q067	P62314	0.88999
52281	Q2Q067	Q86Y26	0.34427
52282	Q2Q067	P08621	0.3612
52283	Q2Q067	Q8IXQ5	0.24902
52284	Q2Q067	Q15744	0.34751
52285	Q2Q067	A4D1U4	0.09293
52286	Q2Q067	Q9GZR2	0.15787
52287	Q2Q067	Q8N7G0	0.32768
52288	Q2Q067	Q9H3K6	0.25156

52289	Q2Q067	Q8IX03	1.0564
52290	Q2Q067	Q08050	0.43526
52291	Q2Q067	Q9UHK0	0.30672
52292	Q2Q067	Q8IXP5	0.29573
52293	Q2Q067	P31948	0.92039
52294	Q2Q067	Q13541	0.83371
52295	Q2Q067	Q5VZV4	0.17662
52296	Q2Q067	Q68EA5	0.2352
52297	Q2Q067	Q5TID7	0.29924
52298	Q2Q067	Q9Y2K5	0.090139
52299	Q2Q067	O75323	0.24511
52300	Q2Q067	Q5T1B1	0.57378
52301	Q2Q067	O43399	0.54549
52302	Q2Q067	P11142	0.43896
52303	Q2Q067	Q9NZF1	0.041328
52304	Q2Q067	P0CI01	0.23617
52305	Q2Q067	Q96DB5	0.23408
52306	Q2Q067	O75381	0.15633
52307	Q2Q067	O75607	0.66024
52308	Q2Q067	Q9NQS7	0.84216
52309	Q2Q067	Q14203	0.93183
52310	Q2Q067	O15405	1.0076
52311	Q2Q067	P61978	1.0113
52312	Q2Q067	A6NDB9	0.17589
52313	Q2Q067	O43823	0.18694
52314	Q2Q067	Q99569	0.25429
52315	Q2Q067	Q16630	0.21378
52316	Q2Q067	Q5T0J3	0.02475
52317	Q2Q067	Q8N5C8	0.50869
52318	Q2Q067	Q8WUB2	0.15683
52319	Q2Q067	Q96B67	0.24659
52320	Q2Q067	Q9BQ48	0.41104
52321	Q2Q067	Q9Y5B6	0.49189
52322	Q2Q067	Q9BW60	0.27937
52323	Q2Q067	O95163	0.64551
52324	Q2Q067	P62324	0.69074
52325	Q2Q067	A6NEQ9	0.19215
52326	Q2Q067	Q9C075	0.12751
52327	Q2Q067	Q9UKL0	1.2555
52328	Q2Q067	Q8IZT9	0.46789
52329	Q2Q067	O60711	0.38633
52330	Q2Q067	Q9BQ67	0.32989
52331	Q2Q067	Q14765	0.3453
52332	Q2Q067	Q9HAU5	0.91985
52333	Q2Q067	Q9Y5Z7	0.37558
52334	Q2Q067	Q3LI70	0.19215
52335	Q2Q067	Q9HBL0	0.32175
52336	Q2Q067	Q1ED39	0.54789
52337	Q2Q067	O95521	0.23465
52338	Q2Q067	P22528	0.18454
52339	Q2Q067	Q8IVV7	0.16238
52340	Q2Q067	A8K830	0.19215
52341	Q2Q067	K7EIQ3	0.59911
52342	Q2Q067	O95178	0.20969
52343	Q2Q067	Q06830	0.2735
52344	Q2Q067	Q8N6K4	0.19215
52345	Q2Q067	Q5TEZ4	0.19215
52346	Q2Q067	Q9H3L0	0.32481
52347	Q2Q067	Q13287	0.49256
52348	Q2Q067	Q96IF1	0.35608
52349	Q2Q067	P29084	1.2414
52350	Q2Q067	Q13112	1.4257
52351	Q2Q067	Q96CW1	0.5269
52352	Q2Q067	Q9UJX2	0.65145
52353	Q2Q067	Q8WVY7	0.20797
52354	Q2Q067	Q68DY1	0.24839
52355	Q2Q067	Q5TB30	0.2064
52356	Q2Q067	Q8IXW5	0.52959
52357	Q2Q067	Q7RTV3	0.31762
52358	Q2Q067	Q12972	0.78554
52359	Q2Q067	Q5JR98	0.28783
52360	Q2Q067	Q14137	0.81691
52361	Q2Q067	Q6ICB4	0.1425
52362	Q2Q067	P27797	0.5449
52363	Q2Q067	P12004	0.20035
52364	Q2Q067	Q9UQL6	0.4749

52365	Q2Q067	Q9H7C4	0.37499
52366	Q2Q067	Q8N5P1	0.23388
52367	Q2Q067	Q07021	0.82388
52368	Q2Q067	Q6ZSR6	0.13792
52369	Q2Q067	Q8TAK5	0.48352
52370	Q2Q067	Q00059	0.89131
52371	Q2Q067	P0CW26	0.1398
52372	Q2Q067	Q9Y3M2	0.2699
52373	Q2Q067	Q8ND83	0.52119
52374	Q2Q067	O43524	0.37516
52375	Q2Q067	Q14181	0.25532
52376	Q2Q067	Q8TDC0	0.42718
52377	Q2Q067	Q16851	0.36745
52378	Q2Q067	P53999	1.2704
52379	Q2Q067	Q8N336	0.15109
52380	Q2Q067	Q8TBR4	0.15526
52381	Q2Q067	Q96G23	0.249
52382	Q2Q067	Q99549	0.5967
52383	Q2Q067	Q9BU89	0.16533
52384	Q2Q067	Q9HCG1	0.17676
52385	Q2Q067	P61923	0.33189
52386	Q2Q067	Q12959	0.89825
52387	Q2Q067	O43502	0.24716
52388	Q2Q067	P63146	0.18529
52389	Q2Q067	O43593	0.18506
52390	Q2Q067	Q9Y297	0.26871
52391	Q2Q067	P0C2W7	0.19215
52392	Q2Q067	Q96G25	0.97578
52393	Q2Q067	Q9ULW3	0.81105
52394	Q2Q067	A6XGL0	0.18759
52395	Q2Q067	P06746	0.44745
52396	Q2Q067	O43745	0.70022
52397	Q2Q067	Q9BZE7	0.29573
52398	Q2Q067	P61927	0.67882
52399	Q2Q067	Q6P280	0.25546
52400	Q2Q067	Q9NYF0	0.22391
52401	Q2Q067	Q9NRG4	0.70392
52402	Q2Q067	Q5RKV6	0.16261
52403	Q2Q067	O75884	0.62748
52404	Q2Q067	O95678	0.12106
52405	Q2Q067	Q9Y399	0.49845
52406	Q2Q067	Q8WXC3	0.65637
52407	Q2Q067	Q5PRF9	0.57881
52408	Q2Q067	P60520	0.21691
52409	Q2Q067	Q9BUI4	0.17968
52410	Q2Q067	Q76KD6	0.22122
52411	Q2Q067	Q9BY77	0.32468
52412	Q2Q067	Q99966	0.25065
52413	Q2Q067	Q9ULE6	0.66387
52414	Q2Q067	Q9NS25	0.4381
52415	Q2Q067	O15162	0.084687
52416	Q2Q067	O95721	0.29435
52417	Q2Q067	Q9UDY4	0.79848
52418	Q2Q067	O95159	0.29654
52419	Q2Q067	Q8TAU3	0.12519
52420	Q2Q067	P39023	1.0298
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52422	Q2Q067	O15061	0.6837
52423	Q2Q067	Q9Y448	0.7815
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52425	Q2Q067	Q92994	0.30729
52426	Q2Q067	Q9NX05	0.23892
52427	Q2Q067	Q5QP74	0.19215
52428	Q2Q067	Q8N5J4	0.52127
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52431	Q2Q067	P24522	0.5346
52432	Q2Q067	P38159	0.60383
52433	Q2Q067	Q13469	1.1637
52434	Q2Q067	Q9H1A3	0.28783
52435	Q2Q067	Q8N0Z2	0.26485
52436	Q2Q067	Q9UMX2	0.19131
52437	Q2Q067	P0CG35	0.34514
52438	Q2Q067	Q5U623	0.75208
52439	Q2Q067	P52747	0.7753
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52443	Q2Q067	P04264	0.22852
52444	Q2Q067	Q9Y3A5	0.63233
52445	Q2Q067	Q9Y5P8	0.63371
52446	Q2Q067	Q3LI60	0.19215
52447	Q2Q067	Q9UHV2	0.97663
52448	Q2Q067	Q9H4B0	0.26213
52449	Q2Q067	P78412	0.25814
52450	Q2Q067	Q4KN68	0.0029586
52451	Q2Q067	P0CW23	0.18954
52452	Q2Q067	O60287	0.57829
52453	Q2Q067	Q14CS0	0.3846
52454	Q2Q067	Q96SR6	0.10324
52455	Q2Q067	P0C860	0.32398
52456	Q2Q067	Q1ZZU3	0.65109
52457	Q2Q067	Q15003	0.70011
52458	Q2Q067	P55347	0.47374
52459	Q2Q067	Q9NZH4	0.36819
52460	Q2Q067	O94811	0.36864
52461	Q2Q067	P62487	0.20584
52462	Q2Q067	Q86X60	0.11744
52463	Q2Q067	O75396	0.18423
52464	Q2Q067	P60896	0.19215
52465	Q2Q067	O15127	0.61071
52466	Q2Q067	Q9UBF1	0.77285
52467	Q2Q067	Q8N1A0	0.13334
52468	Q2Q067	Q9UHI6	0.36011
52469	Q2Q067	K7EIZ4	0.19215
52470	Q2Q067	Q9UKC9	0.48063
52471	Q2Q067	A6NLW8	0.27517
52472	Q2Q067	Q9UK73	0.71298
52473	Q2Q067	A6NGH7	0.1265
52474	Q2Q067	Q5THR3	0.31018
52475	Q2Q067	Q8N812	0.20739
52476	Q2Q067	P78317	0.61126
52477	Q2Q067	P11532	0.488
52478	Q2Q067	Q14929	0.095275
52479	Q2Q067	Q99504	0.4532
52480	Q2Q067	Q5T619	0.092671
52481	Q2Q067	P62081	1.0552
52482	Q2Q067	Q9Y2Q9	0.34109
52483	Q2Q067	Q6ZSN1	0.15872
52484	Q2Q067	P61247	1.1759
52485	Q2Q067	Q9GZR5	0.11923
52486	Q2Q067	Q9BSV6	0.14822
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52489	Q2Q067	Q8NEY8	0.43815
52490	Q2Q067	Q8WUM4	1.0558
52491	Q2Q067	P62304	0.76738
52492	Q2Q067	P29372	0.42387
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52494	Q2Q067	Q29RF7	0.93936
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52496	Q2Q067	P62714	0.72383
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52498	Q2Q067	Q14593	0.24672
52499	Q2Q067	Q9UBS3	0.59006
52500	Q2Q067	Q6RVD6	0.19215
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52502	Q2Q067	O94992	1.1074
52503	Q2Q067	O14980	1.0988
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52505	Q2Q067	Q8N655	0.19215
52506	Q2Q067	P35548	0.66903
52507	Q2Q067	Q86T75	0.3158
52508	Q2Q067	Q5VWM6	0.50615
52509	Q2Q067	P55199	1.0226
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52511	Q2Q067	Q9UHB9	0.33983
52512	Q2Q067	Q4G112	0.32768
52513	Q2Q067	Q9NZ38	0.0034562
52514	Q2Q067	Q9UIV1	1.2119
52515	Q2Q067	Q8TB69	0.22332
52516	Q2Q067	Q8NCA5	0.30415



52517	Q2Q067	Q86Y46	0.16378
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52519	Q2Q067	Q8TB03	0.23419
52520	Q2Q067	Q9BVI4	0.26767
52521	Q2Q067	P84103	0.57338
52522	Q2Q067	P61254	0.55702
52523	Q2Q067	A6PW82	0.28103
52524	Q2Q067	Q9UI66	0.19215
52525	Q2Q067	O60645	0.36981
52526	Q2Q067	Q8N8I6	0.19215
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52529	Q2Q067	O75817	0.83239
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52531	Q2Q067	P20719	0.34943
52532	Q2Q067	Q5T6S3	0.26767
52533	Q2Q067	Q15072	0.14006
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52535	Q2Q067	Q6X4W1	0.56337
52536	Q2Q067	Q15935	0.29124
52537	Q2Q067	A6NEM1	0.35087
52538	Q2Q067	Q9Y4C2	0.38834
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52540	Q2Q067	P59047	0.26213
52541	Q2Q067	Q9H8S9	0.45294
52542	Q2Q067	Q9H4K1	0.13168
52543	Q2Q067	P17987	0.1401
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52546	Q2Q067	B9ZVM9	0.65755
52547	Q2Q067	Q15388	0.088916
52548	Q2Q067	Q8NFV5	0.23617
52549	Q2Q067	Q8IZS5	0.16407
52550	Q2Q067	Q9BYR6	0.46381
52551	Q2Q067	Q5VZQ5	0.42632
52552	Q2Q067	Q96C00	0.26461
52553	Q2Q067	P62249	0.4969
52554	Q2Q067	Q8N1G2	0.25458
52555	Q2Q067	Q9BYK8	0.36866
52556	Q2Q067	Q8IYB3	0.36892
52557	Q2Q067	Q5H9R7	0.76926
52558	Q2Q067	P30307	0.7347
52559	Q2Q067	Q9UEU5	0.2716
52560	Q2Q067	Q9GZZ1	0.35731
52561	Q2Q067	Q2TAL8	0.55978
52562	Q2Q067	Q9H2C0	0.53534
52563	Q2Q067	Q8IVP9	0.12984
52564	Q2Q067	Q6W2J9	0.39006
52565	Q2Q067	Q05048	0.75247
52566	Q2Q067	P20073	0.41715
52567	Q2Q067	Q5VT03	0.4993
52568	Q2Q067	P51826	0.35697
52569	Q2Q067	Q14186	1.2564
52570	Q2Q067	Q63HK3	0.32906
52571	Q2Q067	Q9UII2	0.18937
52572	Q2Q067	Q92674	0.3827
52573	Q2Q067	Q8N8X9	0.094384
52574	Q2Q067	P49901	0.19215
52575	Q2Q067	A8MZF0	0.29573
52576	Q2Q067	Q99608	0.15494
52577	Q2Q067	Q5TA31	0.4504
52578	Q2Q067	Q6ZW54	0.5886
52579	Q2Q067	P78352	0.5949
52580	Q2Q067	P40426	0.31986
52581	Q2Q067	Q8TD35	0.29573
52582	Q2Q067	O75717	0.3687
52583	Q2Q067	Q59GR2	0.25814
52584	Q2Q067	Q3LI62	0.19215
52585	Q2Q067	Q6XCG6	0.19215
52586	Q2Q067	Q15699	0.47902
52587	Q2Q067	Q86Y13	0.24905
52588	Q2Q067	P53677	0.16059
52589	Q2Q067	Q9UII5	0.15472
52590	Q2Q067	Q9C0D2	0.32508
52591	Q2Q067	Q12800	0.33871
52592	Q2Q067	A8MZ59	0.25814

52593	Q2Q067	Q15532	0.9955
52594	Q2Q067	Q96NS8	0.011195
52595	Q2Q067	Q9UJM3	0.37745
52596	Q2Q067	P59051	0.014148
52597	Q2Q067	Q9GZY1	0.40863
52598	Q2Q067	Q5HYI7	0.52812
52599	Q2Q067	O60828	0.78818
52600	Q2Q067	Q8NE65	0.21673
52601	Q2Q067	P04732	0.17228
52602	Q2Q067	O75582	0.24816
52603	Q2Q067	O14508	0.28692
52604	Q2Q067	A2RU30	0.2567
52605	Q2Q067	Q05084	0.35642
52606	Q2Q067	P26678	0.20139
52607	Q2Q067	A8MUV8	0.23774
52608	Q2Q067	O94913	0.31311
52609	Q2Q067	O15131	1.0961
52610	Q2Q067	Q96KR1	0.21109
52611	Q2Q067	Q9P243	0.30054
52612	Q2Q067	Q9ULM2	0.12578
52613	Q2Q067	Q15047	0.60094
52614	Q2Q067	Q7Z2V1	0.19215
52615	Q2Q067	Q9HB71	0.53074
52616	Q2Q067	Q6NT89	0.46329
52617	Q2Q067	Q8WW18	0.29573
52618	Q2Q067	Q14938	0.2275
52619	Q2Q067	O75529	0.62313
52620	Q2Q067	Q5T035	0.23031
52621	Q2Q067	Q9UM13	0.68627
52622	Q2Q067	Q9NP64	0.20997
52623	Q2Q067	Q9BQ70	1.3375
52624	Q2Q067	Q9UG56	0.082841
52625	Q2Q067	P62280	0.58547
52626	Q2Q067	O43310	0.46475
52627	Q2Q067	Q96N38	0.23896
52628	Q2Q067	Q14997	0.15484
52629	Q2Q067	A8MWA4	0.28061
52630	Q2Q067	P49356	0.055029
52631	Q2Q067	P62328	0.57525
52632	Q2Q067	P83731	0.78122
52633	Q2Q067	Q9NX55	0.126
52634	Q2Q067	Q569H4	0.29573
52635	Q2Q067	O00471	0.20737
52636	Q2Q067	Q9UBF2	0.19276
52637	Q2Q067	Q9BYV8	0.59644
52638	Q2Q067	A1L4L8	0.23043
52639	Q2Q067	Q5VTQ0	0.03809
52640	Q2Q067	Q9UGP4	0.40894
52641	Q2Q067	Q86WX3	1.0915
52642	Q2Q067	Q96A22	0.13147
52643	Q2Q067	P40337	0.88045
52644	Q2Q067	Q5SVQ8	0.13712
52645	Q2Q067	Q99750	0.37113
52646	Q2Q067	Q9BW27	0.79856
52647	Q2Q067	Q6NXP2	0.58076
52648	Q2Q067	Q9BTC8	0.65355
52649	Q2Q067	Q9Y6P5	0.15879
52650	Q2Q067	Q8NA03	0.17761
52651	Q2Q067	O43924	0.049969
52652	Q2Q067	O43768	0.0786
52653	Q2Q067	O15235	0.69895
52654	Q2Q067	Q5H9F3	0.5573
52655	Q2Q067	Q9NWX4	0.32203
52656	Q2Q067	A8MQ14	0.12001
52657	Q2Q067	Q14498	0.71097
52658	Q2Q067	Q96M53	0.6806
52659	Q2Q067	P56693	0.61852
52660	Q2Q067	Q9NYJ1	0.54683
52661	Q2Q067	Q92748	0.80162
52662	Q2Q067	Q9Y6H5	0.74221
52663	Q2Q067	Q9BZW7	0.24135
52664	Q2Q067	P05787	1.4311
52665	Q2Q067	Q96LB3	0.57283
52666	Q2Q067	A4GXA9	0.52312
52667	Q2Q067	Q502W7	0.22955
52668	Q2Q067	O14787	0.9249

52669	Q2Q067	O43236	0.26293
52670	Q2Q067	Q96BT3	0.52964
52671	Q2Q067	Q9H9C1	0.47086
52672	Q2Q067	Q8NDA8	0.28583
52673	Q2Q067	Q08J23	0.58512
52674	Q2Q067	Q8N7R0	0.32768
52675	Q2Q067	A6NHP3	0.23617
52676	Q2Q067	Q96CX3	0.1094
52677	Q2Q067	Q9BTP7	0.98908
52678	Q2Q067	Q8IWS0	0.4602
52679	Q2Q067	Q8NHQ1	1.3488
52680	Q2Q067	Q969S8	0.78192
52681	Q2Q067	A6NH11	0.23677
52682	Q2Q067	O14867	0.44301
52683	Q2Q067	P25791	0.44052
52684	Q2Q067	Q9BSU3	0.42308
52685	Q2Q067	Q96F24	0.64765
52686	Q2Q067	Q5VT33	0.1131
52687	Q2Q067	Q9Y6Y0	0.46721
52688	Q2Q067	P17032	0.098292
52689	Q2Q067	Q6ZRP0	0.29573
52690	Q2Q067	Q86V81	0.84896
52691	Q2Q067	P11171	0.46556
52692	Q2Q067	P48788	0.55237
52693	Q2Q067	Q99728	0.25007
52694	Q2Q067	Q9NXB0	0.37844
52695	Q2Q067	Q8IWZ8	0.21707
52696	Q2Q067	Q9BV19	0.15266
52697	Q2Q067	Q9H8E8	0.69857
52698	Q2Q067	Q6PGN9	0.76172
52699	Q2Q067	Q2M3C7	0.44855
52700	Q2Q067	Q86TA1	0.24537
52701	Q2Q067	P61576	0.36503
52702	Q2Q067	P19532	0.74798
52703	Q2Q067	P52758	0.43552
52704	Q2Q067	Q96BD5	0.45567
52705	Q2Q067	Q53GS7	0.44998
52706	Q2Q067	Q6P9G9	0.068077
52707	Q2Q067	Q6AI08	0.21869
52708	Q2Q067	P26358	0.36604
52709	Q2Q067	Q9ULX9	0.45688
52710	Q2Q067	Q04695	0.36996
52711	Q2Q067	P51948	0.45496
52712	Q2Q067	Q9NSG2	0.20414
52713	Q2Q067	Q13561	0.75444
52714	Q2Q067	Q92546	0.48301
52715	Q2Q067	Q9Y2T7	0.16801
52716	Q2Q067	Q52M93	0.050676
52717	Q2Q067	Q9H2W6	0.18515
52718	Q2Q067	Q96G03	0.27675
52719	Q2Q067	P31350	0.36998
52720	Q2Q067	Q66GS9	0.33645
52721	Q2Q067	Q96F07	0.42663
52722	Q2Q067	O75618	1.1491
52723	Q2Q067	Q9Y221	0.78026
52724	Q2Q067	Q9UBW8	0.35354
52725	Q2Q067	P35527	0.20138
52726	Q2Q067	P15621	0.22556
52727	Q2Q067	Q8N0T1	0.21773
52728	Q2Q067	A8MUA0	0.10188
52729	Q2Q067	Q6GPH4	0.37129
52730	Q2Q067	Q92831	0.86249
52731	Q2Q067	Q96EH3	0.071065
52732	Q2Q067	P60900	0.4445
52733	Q2Q067	Q92782	0.54353
52734	Q2Q067	Q8TEM1	0.15609
52735	Q2Q067	P46976	0.43257
52736	Q2Q067	Q14585	0.096646
52737	Q2Q067	Q8TBZ9	0.59043
52738	Q2Q067	Q14106	0.18125
52739	Q2Q067	Q6IN85	0.16498
52740	Q2Q067	O43711	0.38188
52741	Q2Q067	Q9NQX6	0.10835
52742	Q2Q067	Q9HAH7	0.25984
52743	Q2Q067	Q96MT3	0.87839
52744	Q2Q067	Q86UY5	0.0086481

52745	Q2Q067	P17022	0.058453
52746	Q2Q067	Q9H5J8	0.97805
52747	Q2Q067	Q9BPZ7	0.28461
52748	Q2Q067	Q15050	0.36233
52749	Q2Q067	Q9H8T0	0.38239
52750	Q2Q067	D6RB28	0.35087
52751	Q2Q067	Q96BW9	0.18187
52752	Q2Q067	Q9UL46	0.30616
52753	Q2Q067	Q16143	0.30318
52754	Q2Q067	Q07666	0.41267
52755	Q2Q067	Q9BZD4	0.74384
52756	Q2Q067	Q99576	0.46068
52757	Q2Q067	Q14653	0.67565
52758	Q2Q067	Q68DI1	0.12293
52759	Q2Q067	P51504	0.12014
52760	Q2Q067	Q9UBC9	0.44764
52761	Q2Q067	Q9GZY8	0.13705
52762	Q2Q067	P67870	0.25144
52763	Q2Q067	Q9NQ89	0.16984
52764	Q2Q067	Q6PK04	0.563
52765	Q2Q067	Q9NX53	0.28783
52766	Q2Q067	Q9Y6N9	0.29806
52767	Q2Q067	Q8TEX9	0.38871
52768	Q2Q067	O60934	0.18361
52769	Q2Q067	P04733	0.17228
52770	Q2Q067	Q9UPX8	0.27864
52771	Q2Q067	Q9UKY1	0.35561
52772	Q2Q067	Q9HD64	0.086969
52773	Q2Q067	Q8WWW0	0.26515
52774	Q2Q067	Q9H9H5	0.26302
52775	Q2Q067	P34896	0.072845
52776	Q2Q067	Q96T37	0.29022
52777	Q2Q067	P61289	0.86538
52778	Q2Q067	Q96LY2	0.32771
52779	Q2Q067	Q9H9Y2	0.17106
52780	Q2Q067	O75505	0.25814
52781	Q2Q067	Q96A73	0.5634
52782	Q2Q067	Q8N8C0	0.12775
52783	Q2Q067	Q13495	0.64204
52784	Q2Q067	Q5T4H9	0.19215
52785	Q2Q067	Q9Y2D9	0.58991
52786	Q2Q067	Q96DE5	0.53951
52787	Q2Q067	Q96SZ4	0.13104
52788	Q2Q067	Q15654	0.77947
52789	Q2Q067	Q5T0L3	0.61368
52790	Q2Q067	Q96DB2	0.21383
52791	Q2Q067	Q96BY7	0.067745
52792	Q2Q067	Q96KW2	0.3869
52793	Q2Q067	Q5BN46	0.015082
52794	Q2Q067	Q9HD34	0.276
52795	Q2Q067	P56270	0.53182
52796	Q2Q067	Q96DF8	0.57902
52797	Q2Q067	Q6IQ32	0.43053
52798	Q2Q067	Q659A1	0.11284
52799	Q2Q067	A2RRD8	0.13766
52800	Q2Q067	Q15306	0.84729
52801	Q2Q067	Q14746	0.29922
52802	Q2Q067	B4DXR9	0.24252
52803	Q2Q067	Q9UKD1	0.75185
52804	Q2Q067	Q8N6G1	0.19215
52805	Q2Q067	Q6NX45	0.10964
52806	Q2Q067	P62263	0.54942
52807	Q2Q067	P51816	0.28754
52808	Q2Q067	Q9BXY8	0.3233
52809	Q2Q067	O43482	0.43553
52810	Q2Q067	Q86US8	0.55593
52811	Q2Q067	O96017	0.61168
52812	Q2Q067	P51959	0.44026
52813	Q2Q067	Q15370	1.1359
52814	Q2Q067	P17098	0.24084
52815	Q2Q067	Q9BU61	0.67207
52816	Q2Q067	O60832	0.66642
52817	Q2Q067	O75437	0.21652
52818	Q2Q067	Q8NF99	0.24359
52819	Q2Q067	P12755	0.16421
52820	Q2Q067	Q9UNN5	0.66039

52821	Q2Q067	Q9BSH5	0.34486
52822	Q2Q067	Q9Y4X5	0.37901
52823	Q2Q067	O14948	0.43476
52824	Q2Q067	Q14687	0.28783
52825	Q2Q067	Q9P1G2	0.16666
52826	Q2Q067	Q5MJ68	0.18657
52827	Q2Q067	P61572	0.36503
52828	Q2Q067	Q13360	0.13061
52829	Q2Q067	A8MUU9	0.041221
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52831	Q2Q067	Q8N1I0	0.22781
52832	Q2Q067	Q6Q795	0.19215
52833	Q2Q067	Q9UBD5	0.55511
52834	Q2Q067	Q9UBF6	0.67217
52835	Q2Q067	Q9BRT6	0.26064
52836	Q2Q067	Q8IXQ4	0.29573
52837	Q2Q067	O43678	0.29601
52838	Q2Q067	Q92624	0.83087
52839	Q2Q067	Q9UPN7	0.93763
52840	Q2Q067	Q96C90	0.33265
52841	Q2Q067	Q9NQ32	0.10598
52842	Q2Q067	Q9BTE7	0.24809
52843	Q2Q067	Q8N1E6	0.30239
52844	Q2Q067	P60410	0.46381
52845	Q2Q067	Q8TES7	0.55549
52846	Q2Q067	Q86UB2	0.34167
52847	Q2Q067	Q8N8H1	0.21059
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52849	Q2Q067	Q14978	0.44204
52850	Q2Q067	Q00610	0.89233
52851	Q2Q067	Q96S59	0.93087
52852	Q2Q067	Q9H1I8	0.17504
52853	Q2Q067	P84022	0.57434
52854	Q2Q067	Q8WXW3	0.35292
52855	Q2Q067	Q9HB19	0.48472
52856	Q2Q067	Q8NDC0	0.25997
52857	Q2Q067	P61571	0.36503
52858	Q2Q067	P61966	0.2696
52859	Q2Q067	Q5MJ70	0.23617
52860	Q2Q067	Q92796	0.29068
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52864	Q2Q067	O76095	0.056502
52865	Q2Q067	Q96RT7	0.30342
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52868	Q2Q067	Q6EEV4	0.19215
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52870	Q2Q067	Q16222	0.18225
52871	Q2Q067	Q8NBA8	0.050719
52872	Q2Q067	P60866	0.68165
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52874	Q2Q067	O14641	0.70016
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52877	Q2Q067	P62906	0.69861
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52879	Q2Q067	Q63ZY3	0.87257
52880	Q2Q067	Q86SX3	0.77799
52881	Q2Q067	Q6ZTR5	0.007447
52882	Q2Q067	Q9NXV2	1.3531
52883	Q2Q067	Q99856	0.69763
52884	Q2Q067	A8MVJ9	0.31076
52885	Q2Q067	Q6P9A3	0.089995
52886	Q2Q067	I3L0S3	0.18858
52887	Q2Q067	Q9NSP4	0.065359
52888	Q2Q067	Q5SV97	0.36776
52889	Q2Q067	Q8N9T2	0.19215
52890	Q2Q067	P55212	0.45752
52891	Q2Q067	P31949	0.32321
52892	Q2Q067	Q69YI7	0.77707
52893	Q2Q067	P82650	0.15784
52894	Q2Q067	Q6P9F0	0.19934
52895	Q2Q067	P50221	0.58373
52896	Q2Q067	B1APH4	0.16825

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52899	Q2Q067	P68871	0.19188
52900	Q2Q067	Q68DN1	0.20111
52901	Q2Q067	Q9C0D0	0.19632
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52903	Q2Q067	Q9BQC6	0.42309
52904	Q2Q067	Q9UL33	0.14849
52905	Q2Q067	Q9BQ83	0.55537
52906	Q2Q067	P10914	0.43506
52907	Q2Q067	Q8N5M1	0.45243
52908	Q2Q067	P41252	0.6402
52909	Q2Q067	Q92539	0.5881
52910	Q2Q067	Q8WTP9	0.56155
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52913	Q2Q067	Q9ULM3	0.79657
52914	Q2Q067	Q9NV39	0.19817
52915	Q2Q067	A9QM74	0.55585
52916	Q2Q067	Q86T82	0.28022
52917	Q2Q067	P52815	0.59141
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52924	Q2Q067	Q9NZH5	0.2278
52925	Q2Q067	Q96JM7	0.36067
52926	Q2Q067	Q99622	0.056995
52927	Q2Q067	Q15102	0.18314
52928	Q2Q067	P56277	0.37076
52929	Q2Q067	A6NDZ8	0.083005
52930	Q2Q067	Q14533	0.76812
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52932	Q2Q067	Q9UI72	0.19215
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52936	Q2Q067	Q6IQ49	0.11794
52937	Q2Q067	Q8NC74	0.098973
52938	Q2Q067	Q8TEE9	0.59276
52939	Q2Q067	Q5VIR6	0.45548
52940	Q2Q067	Q15024	0.70039
52941	Q2Q067	Q8N3C0	0.23328
52942	Q2Q067	Q9NPD8	0.16359
52943	Q2Q067	O14933	0.24582
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52945	Q2Q067	Q7Z3B3	0.099314
52946	Q2Q067	Q8NEH6	0.51039
52947	Q2Q067	P09972	0.60856
52948	Q2Q067	Q00716	1.0864
52949	Q2Q067	Q15437	0.23106
52950	Q2Q067	P0CJ89	0.27517
52951	Q2Q067	Q96IZ7	0.74909
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52955	Q2Q067	Q5T5A4	0.14848
52956	Q2Q067	Q13310	0.37021
52957	Q2Q067	Q86WZ0	0.36666
52958	Q2Q067	Q12834	0.773
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52961	Q2Q067	A5D8V6	0.21598
52962	Q2Q067	Q15643	0.89117
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52967	Q2Q067	Q6ZS46	0.41154
52968	Q2Q067	Q96HJ3	0.29573
52969	Q2Q067	Q6ZU65	0.15082
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52971	Q2Q067	P16383	0.58843
52972	Q2Q067	P54840	0.16949

52973	Q2Q067	O60220	0.24913
52974	Q2Q067	Q9NQ31	0.60393
52975	Q2Q067	Q96BQ5	0.35134
52976	Q2Q067	P56279	0.4108
52977	Q2Q067	P41002	0.90366
52978	Q2Q067	P53992	1.0081
52979	Q2Q067	Q9Y6K9	0.97261
52980	Q2Q067	O95628	0.62707
52981	Q2Q067	P36873	0.71627
52982	Q2Q067	P0CJ90	0.27517
52983	Q2Q067	Q96GC6	1.1176
52984	Q2Q067	Q96RY5	0.52852
52985	Q2Q067	P51668	0.56922
52986	Q2Q067	Q8NET4	0.36766
52987	Q2Q067	P57081	0.88359
52988	Q2Q067	P69208	0.19215
52989	Q2Q067	Q92925	0.54643
52990	Q2Q067	Q76KX8	0.24459
52991	Q2Q067	Q96FQ6	0.24695
52992	Q2Q067	Q9NVE4	0.15811
52993	Q2Q067	Q8WW14	0.10032
52994	Q2Q067	Q9H0W8	0.33044
52995	Q2Q067	Q00056	0.31739
52996	Q2Q067	Q5T9G4	0.53071
52997	Q2Q067	A6NHJ4	0.25938
52998	Q2Q067	Q2TAK8	0.61715
52999	Q2Q067	Q9NUW8	0.63095
53000	Q2Q067	Q8NCU7	0.51068
53001	Q2Q067	Q14232	0.11373
53002	Q2Q067	Q9Y5J6	0.1495
53003	Q2Q067	Q92843	0.44311
53004	Q2Q067	Q15021	0.79968
53005	Q2Q067	Q9P2R6	1.0528
53006	Q2Q067	Q01658	0.46171
53007	Q2Q067	Q8NEF3	0.10748
53008	Q2Q067	Q6NSW7	0.32768
53009	Q2Q067	P28347	1.0068
53010	Q2Q067	Q15468	0.12309
53011	Q2Q067	Q96ES7	0.12155
53012	Q2Q067	Q8N3F8	0.36106
53013	Q2Q067	Q96MW1	0.29573
53014	Q2Q067	Q8N895	0.46528
53015	Q2Q067	Q96N22	0.24759
53016	Q2Q067	Q92541	0.98668
53017	Q2Q067	A8MXY4	0.16589
53018	Q2Q067	Q8N141	0.24938
53019	Q2Q067	P0CG34	0.34514
53020	Q2Q067	Q9NQP4	0.93882
53021	Q2Q067	Q96G28	0.10619
53022	Q2Q067	P31276	0.58233
53023	Q2Q067	P82914	0.34576
53024	Q2Q067	Q96HQ2	0.59644
53025	Q2Q067	Q2VPK5	0.68166
53026	Q2Q067	P22531	0.4396
53027	Q2Q067	Q9UKJ5	0.20853
53028	Q2Q067	Q02878	0.86759
53029	Q2Q067	Q8IYF3	0.41833
53030	Q2Q067	Q7Z3Y8	0.24865
53031	Q2Q067	P46777	1.2478
53032	Q2Q067	O94888	0.37669
53033	Q2Q067	P25440	0.44349
53034	Q2Q067	Q674X7	0.33682
53035	Q2Q067	Q05519	0.64186
53036	Q2Q067	Q9BVC3	0.5637
53037	Q2Q067	O15499	0.23001
53038	Q2Q067	Q96IL0	0.14247
53039	Q2Q067	Q03924	0.099343
53040	Q2Q067	Q8TBZ0	0.23272
53041	Q2Q067	O60826	0.35962
53042	Q2Q067	Q9BXL8	0.11478
53043	Q2Q067	Q8TAT6	0.4564
53044	Q2Q067	Q92562	0.25618
53045	Q2Q067	Q96LX8	0.13171
53046	Q2Q067	Q8N6T0	0.1112
53047	Q2Q067	Q96E11	0.36691
53048	Q2Q067	Q9BVC4	0.38322

53049	Q2Q067	Q8WWC4	0.3021
53050	Q2Q067	P55854	0.48173
53051	Q2Q067	Q9UBK9	0.9743
53052	Q2Q067	O95486	0.37983
53053	Q2Q067	O95424	0.098644
53054	Q2Q067	P26368	0.50935
53055	Q2Q067	Q9NRJ2	0.19215
53056	Q2Q067	Q5MIZ7	0.34658
53057	Q2Q067	Q96QU4	0.35987
53058	Q2Q067	P50748	0.7517
53059	Q2Q067	Q92769	0.37839
53060	Q2Q067	P0CL82	0.019044
53061	Q2Q067	A8MVM7	0.19215
53062	Q2Q067	P28062	0.30294
53063	Q2Q067	O43715	0.60731
53064	Q2Q067	Q12904	0.16744
53065	Q2Q067	Q8TBB1	0.70049
53066	Q2Q067	Q9BVL2	0.66174
53067	Q2Q067	Q5JNZ3	0.14538
53068	Q2Q067	Q96EP1	0.50656
53069	Q2Q067	P0CW71	0.19215
53070	Q2Q067	Q3LI72	0.19215
53071	Q2Q067	Q14497	0.68177
53072	Q2Q067	Q03701	0.36517
53073	Q2Q067	Q7Z7F7	0.30983
53074	Q2Q067	Q9NRL3	0.36948
53075	Q2Q067	Q9Y2Q1	0.23552
53076	Q2Q067	Q96D46	0.56745
53077	Q2Q067	Q9H091	0.16259
53078	Q2Q067	A6NHX0	0.42645
53079	Q2Q067	O00255	0.18783
53080	Q2Q067	Q5VTH2	0.3129
53081	Q2Q067	P62899	0.65612
53082	Q2Q067	O15105	0.30414
53083	Q2Q067	Q6PK81	0.10998
53084	Q2Q067	Q5JRC9	0.32957
53085	Q2Q067	Q96NG5	0.2131
53086	Q2Q067	Q8ND56	0.36151
53087	Q2Q067	Q969H9	0.19215
53088	Q2Q067	O43251	0.31738
53089	Q2Q067	Q13114	0.39935
53090	Q2Q067	P78344	0.39826
53091	Q2Q067	Q06330	0.55419
53092	Q2Q067	P15559	0.19366
53093	Q2Q067	O14713	0.3134
53094	Q2Q067	Q8N1L1	0.19215
53095	Q2Q067	O75496	0.91921
53096	Q2Q067	H3BMG3	0.10388
53097	Q2Q067	Q6P2Q9	0.55483
53098	Q2Q067	Q7LG56	0.23867
53099	Q2Q067	P06396	0.4134
53100	Q2Q067	Q96RL7	0.47185
53101	Q2Q067	P14859	1.2183
53102	Q2Q067	Q9BQ90	0.77585
53103	Q2Q067	O75190	0.7221
53104	Q2Q067	Q96A09	0.23631
53105	Q2Q067	Q1RN00	0.19215
53106	Q2Q067	Q9NR50	0.5329
53107	Q2Q067	Q15543	1.032
53108	Q2Q067	Q9UHU1	0.19215
53109	Q2Q067	Q9UMS0	1.082
53110	Q2Q067	O14530	0.26249
53111	Q2Q067	Q9UHV7	0.5241
53112	Q2Q067	Q8IZ40	0.61441
53113	Q2Q067	Q96PM5	0.41147
53114	Q2Q067	Q5SY13	0.19215
53115	Q2Q067	Q86UW9	0.83797
53116	Q2Q067	Q7Z3K6	0.56295
53117	Q2Q067	P60368	0.13835
53118	Q2Q067	P56282	0.12754
53119	Q2Q067	A6NNF4	0.16589
53120	Q2Q067	O95644	0.85682
53121	Q2Q067	P24864	0.62119
53122	Q2Q067	Q9GZV5	1.0546
53123	Q2Q067	P09467	0.31993
53124	Q2Q067	Q96EK7	0.25011



53125	Q2Q067	Q96KH6	0.20696
53126	Q2Q067	O75444	0.45861
53127	Q2Q067	Q13127	0.52563
53128	Q2Q067	Q9P2J8	0.14687
53129	Q2Q067	Q8N9E0	0.29573
53130	Q2Q067	O95780	0.26444
53131	Q2Q067	Q7RTS9	0.69343
53132	Q2Q067	Q5TBC7	0.19429
53133	Q2Q067	P54278	0.36292
53134	Q2Q067	Q9HB07	0.20036
53135	Q2Q067	O95067	0.55782
53136	Q2Q067	P49848	0.74102
53137	Q2Q067	A8MTZ7	0.013691
53138	Q2Q067	Q9UQ84	0.23423
53139	Q2Q067	Q9BQ89	0.55269
53140	Q2Q067	Q8IYW2	0.19215
53141	Q2Q067	P18669	0.59899
53142	Q2Q067	O75843	0.62243
53143	Q2Q067	P08708	0.45742
53144	Q2Q067	Q96JM3	0.30197
53145	Q2Q067	O95447	0.062404
53146	Q2Q067	Q8NHY5	0.47754
53147	Q2Q067	Q8N3F0	0.19189
53148	Q2Q067	Q9BSJ2	1.1259
53149	Q2Q067	O43541	0.63458
53150	Q2Q067	Q969Q6	0.20448
53151	Q2Q067	P41567	0.44098
53152	Q2Q067	Q5TI25	0.72826
53153	Q2Q067	Q6PF04	0.10934
53154	Q2Q067	Q9NSA3	0.78176
53155	Q2Q067	Q9HCU9	1.1108
53156	Q2Q067	Q8WTX7	0.21796
53157	Q2Q067	Q9NWA0	1.0006
53158	Q2Q067	Q6NZY4	0.57421
53159	Q2Q067	Q9H8M7	0.80582
53160	Q2Q067	Q75L30	0.19215
53161	Q2Q067	Q5JR59	0.58169
53162	Q2Q067	Q9HD42	0.96738
53163	Q2Q067	P12525	0.28643
53164	Q2Q067	Q14135	0.39593
53165	Q2Q067	Q9Y2V2	0.23707
53166	Q2Q067	P28324	1.4495
53167	Q2Q067	Q9NPI8	0.79638
53168	Q2Q067	Q2M1V0	0.32768
53169	Q2Q067	Q9BR84	0.25938
53170	Q2Q067	Q9NQG5	1.1012
53171	Q2Q067	Q9BV20	0.1163
53172	Q2Q067	Q9H116	0.3242
53173	Q2Q067	Q9BUW7	0.29573
53174	Q2Q067	Q53EL6	1.0571
53175	Q2Q067	O00625	0.5364
53176	Q2Q067	Q9H869	1.3764
53177	Q2Q067	Q16719	0.32377
53178	Q2Q067	Q6ZW13	0.19215
53179	Q2Q067	P29474	0.59305
53180	Q2Q067	Q86Y97	0.38387
53181	Q2Q067	Q9Y6X2	0.68746
53182	Q2Q067	Q96EH5	0.31757
53183	Q2Q067	P50991	0.22812
53184	Q2Q067	P78345	0.83239
53185	Q2Q067	Q8IU53	0.30456
53186	Q2Q067	P50750	0.32865
53187	Q2Q067	B2RV13	0.29537
53188	Q2Q067	Q9UNM6	0.21423
53189	Q2Q067	O43598	0.14352
53190	Q2Q067	Q9Y2N7	0.59498
53191	Q2Q067	Q99732	0.17771
53192	Q2Q067	Q96E29	0.25377
53193	Q2Q067	P08865	0.82696
53194	Q2Q067	Q9H2J4	0.6157
53195	Q2Q067	Q96JB2	0.77765
53196	Q2Q067	Q8IZM0	0.036535
53197	Q2Q067	Q9UBB9	0.3683
53198	Q2Q067	Q9NZE8	0.34099
53199	Q2Q067	Q9UBW7	0.50531
53200	Q2Q067	Q96DE0	0.52521

53201	Q2Q067	Q9BYR4	0.34715
53202	Q2Q067	Q9ULH7	0.86805
53203	Q2Q067	P11161	0.43705
53204	Q2Q067	Q9Y5B0	0.53599
53205	Q2Q067	Q9NWT6	0.46768
53206	Q2Q067	Q07020	0.77652
53207	Q2Q067	Q96LC9	0.53279
53208	Q2Q067	Q6P4R8	1.1095
53209	Q2Q067	Q9Y6R9	0.31304
53210	Q2Q067	Q9UDY2	0.9378
53211	Q2Q067	Q8IXS0	0.29573
53212	Q2Q067	Q15544	0.88756
53213	Q2Q067	Q9NTX7	0.46641
53214	Q2Q067	Q8IZU0	0.46789
53215	Q2Q067	Q9H9G7	0.70956
53216	Q2Q067	Q8IYT1	0.26415
53217	Q2Q067	Q9Y603	1.2469
53218	Q2Q067	Q9H4M3	0.21437
53219	Q2Q067	Q9NWT8	0.79659
53220	Q2Q067	Q96MC4	0.41621
53221	Q2Q067	P62913	1.1154
53222	Q2Q067	Q8TAE8	0.98322
53223	Q2Q067	A2AJT9	0.28979
53224	Q2Q067	Q12906	1.1711
53225	Q2Q067	Q8WXE1	0.69055
53226	Q2Q067	Q96AP0	0.058987
53227	Q2Q067	Q9NZM5	0.2044
53228	Q2Q067	P0C880	0.19215
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53230	Q2Q067	Q9HAP2	0.65234
53231	Q2Q067	Q8IUC2	0.41492
53232	Q2Q067	P25788	0.71276
53233	Q2Q067	Q9UN79	0.93491
53234	Q2Q067	Q92529	0.23318
53235	Q2Q067	O94855	0.37983
53236	Q2Q067	Q9UL42	0.82285
53237	Q2Q067	O75152	0.17304
53238	Q2Q067	Q9BYQ9	0.34715
53239	Q2Q067	Q9HD36	0.44153
53240	Q2Q067	O95561	0.33241
53241	Q2Q067	Q96Q89	0.367
53242	Q2Q067	Q13233	0.50718
53243	Q2Q067	Q5SQS8	0.18589
53244	Q2Q067	O15265	1.0666
53245	Q2Q067	Q969U7	0.58946
53246	Q2Q067	Q9HD40	0.47685
53247	Q2Q067	O14602	0.33755
53248	Q2Q067	Q05BQ5	0.19432
53249	Q2Q067	O60783	0.27648
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53251	Q2Q067	P82094	1.3206
53252	Q2Q067	Q8WXD5	0.91066
53253	Q2Q067	Q08211	0.24611
53254	Q2Q067	P48382	0.95927
53255	Q2Q067	Q9H095	0.12544
53256	Q2Q067	O43679	0.20599
53257	Q2Q067	Q99733	0.73896
53258	Q2Q067	A6NDR6	0.25814
53259	Q2Q067	O00268	1.1435
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53261	Q2Q067	Q9Y5U2	0.27963
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53265	Q2Q067	Q8NI51	0.57281
53266	Q2Q067	P62269	0.72891
53267	Q2Q067	A7MCY6	0.29324
53268	Q2Q067	A0JLT2	0.6262
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53270	Q2Q067	P42575	0.28737
53271	Q2Q067	Q6P2C8	0.93857
53272	Q2Q067	Q86V87	0.28054
53273	Q2Q067	Q13426	0.36253
53274	Q2Q067	P15622	0.12037
53275	Q2Q067	Q5JSZ5	0.45822
53276	Q2Q067	Q9BR76	0.25203

53277	Q2Q067	Q8NA77	0.38647
53278	Q2Q067	Q5SZD1	0.030898
53279	Q2Q067	A4D0V7	0.46408
53280	Q2Q067	Q6RSH7	0.38366
53281	Q2Q067	P43357	0.28783
53282	Q2Q067	P78386	0.17395
53283	Q2Q067	P42025	0.29978
53284	Q2Q067	Q9H6D7	0.45285
53285	Q2Q067	P0DI81	1.0626
53286	Q2Q067	Q9C0F1	0.15787
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53288	Q2Q067	Q9H4L7	0.28997
53289	Q2Q067	P57077	0.81701
53290	Q2Q067	Q2T9L4	0.045843
53291	Q2Q067	Q9H6U6	0.77469
53292	Q2Q067	Q53GL7	0.42253
53293	Q2Q067	Q3SXR2	0.097006
53294	Q2Q067	Q96K62	0.12473
53295	Q2Q067	P08579	0.23294
53296	Q2Q067	Q9BUL8	0.64903
53297	Q2Q067	Q02410	0.4695
53298	Q2Q067	Q9HCU8	0.45491
53299	Q2Q067	Q7Z3K3	0.4342
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53301	Q2Q067	P62136	0.64024
53302	Q2Q067	Q9NP92	0.44968
53303	Q2Q067	Q53HC0	0.55049
53304	Q2Q067	Q96PU5	0.24726
53305	Q2Q067	Q3KP31	0.22136
53306	Q2Q067	Q5JVG8	0.21596
53307	Q2Q067	O75170	0.41832
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53311	Q2Q067	Q99618	0.50762
53312	Q2Q067	Q99550	0.29368
53313	Q2Q067	O43830	0.07691
53314	Q2Q067	P0C7T7	0.19215
53315	Q2Q067	Q2NL98	0.51994
53316	Q2Q067	P13807	0.38518
53317	Q2Q067	Q96MT8	0.99208
53318	Q2Q067	Q9UIL1	0.66124
53319	Q2Q067	Q99848	0.12439
53320	Q2Q067	P0DI82	0.27065
53321	Q2Q067	Q16254	1.0289
53322	Q2Q067	Q9Y6G3	0.1688
53323	Q2Q067	Q6ZSG2	0.14952
53324	Q2Q067	Q14525	0.16267
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53326	Q2Q067	P52597	0.45981
53327	Q2Q067	Q92530	0.66661
53328	Q2Q067	Q9H8W3	0.26101
53329	Q2Q067	Q68CJ9	0.7447
53330	Q2Q067	P08697	0.088986
53331	Q2Q067	Q0VDD5	0.19215
53332	Q2Q067	Q8NI29	0.19476
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53336	Q2Q067	P41212	0.80779
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53338	Q2Q067	P61236	0.15082
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53351	Q2Q067	Q8IUI4	0.14271
53352	Q2Q067	Q9NVD7	0.25107

53353	Q2Q067	Q49A33	0.21234
53354	Q2Q067	P50613	0.16905
53355	Q2Q067	Q9UHV9	0.80141
53356	Q2Q067	P07814	0.17255
53357	Q2Q067	Q8IW19	0.34829
53358	Q2Q067	P15408	0.60615
53359	Q2Q067	O75306	0.17028
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53361	Q2Q067	O15198	0.4728
53362	Q2Q067	P48634	0.81743
53363	Q2Q067	A6NCL1	0.16771
53364	Q2Q067	Q8TF46	0.20595
53365	Q2Q067	Q15742	0.32419
53366	Q2Q067	Q5VWM5	0.3955
53367	Q2Q067	Q6P161	0.050442
53368	Q2Q067	O14746	0.50018
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53370	Q2Q067	Q8TAD1	0.1321
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53372	Q2Q067	Q6IS14	0.22578
53373	Q2Q067	Q12873	0.52831
53374	Q2Q067	Q9NVC6	0.55772
53375	Q2Q067	P86452	0.44885
53376	Q2Q067	Q9NX46	0.28347
53377	Q2Q067	Q9UNX4	0.25362
53378	Q2Q067	Q8TAIL	0.17874
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53381	Q2Q067	Q9UN37	0.4286
53382	Q2Q067	Q9Y5S9	0.78715
53383	Q2Q067	Q9UHY8	0.21701
53384	Q2Q067	Q8IWJ2	0.65581
53385	Q2Q067	Q6DCA0	0.048023
53386	Q2Q067	Q9UHT4	0.19215
53387	Q2Q067	Q86YA3	0.46888
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53392	Q2Q067	P49354	0.28904
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53394	Q2Q067	Q9BW85	0.52606
53395	Q2Q067	Q8WVJ9	0.61729
53396	Q2Q067	Q7L8S5	0.15009
53397	Q2Q067	Q15327	0.45975
53398	Q2Q067	Q96H20	0.97764
53399	Q2Q067	P62424	1.1042
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53402	Q2Q067	Q92830	0.76579
53403	Q2Q067	Q4G0N7	0.26286
53404	Q2Q067	Q8TC05	0.38025
53405	Q2Q067	P04406	0.43996
53406	Q2Q067	A6NME0	0.086493
53407	Q2Q067	O15164	0.2597
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53409	Q2Q067	Q00005	0.39272
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53411	Q2Q067	Q3SY52	0.097807
53412	Q2Q067	Q96EU6	0.20221
53413	Q2Q067	Q9Y2T2	0.48849
53414	Q2Q067	P0C7H8	0.028225
53415	Q2Q067	P49366	0.38667
53416	Q2Q067	Q9UGK8	0.63032
53417	Q2Q067	P78560	0.53874
53418	Q2Q067	Q9H467	0.99517
53419	Q2Q067	P61088	0.72685
53420	Q2Q067	P57055	0.35678
53421	Q2Q067	Q13506	0.39213
53422	Q2Q067	P35226	0.56358
53423	Q2Q067	Q9H0R1	0.10509
53424	Q2Q067	Q68D10	0.29573
53425	Q2Q067	Q8N1X5	0.19215
53426	Q2Q067	B4DX44	0.24123
53427	Q2Q067	Q15329	1.2808
53428	Q2Q067	Q9Y4W2	0.4697

53429	Q2Q067	Q8N8E1	0.141
53430	Q2Q067	P35869	0.38948
53431	Q2Q067	Q9H160	0.41814
53432	Q2Q067	Q5VVC0	0.14578
53433	Q2Q067	Q8TD16	0.18846
53434	Q2Q067	Q9H7P6	0.45961
53435	Q2Q067	Q9HB75	0.59831
53436	Q2Q067	Q8NI08	0.79678
53437	Q2Q067	Q5SNX5	0.19215
53438	Q2Q067	P25786	0.59507
53439	Q2Q067	Q7Z4U5	0.50891
53440	Q2Q067	Q9NTI5	0.81387
53441	Q2Q067	Q9UFF9	0.54407
53442	Q2Q067	Q6L8G4	0.19215
53443	Q2Q067	Q01081	0.50209
53444	Q2Q067	P62917	0.79151
53445	Q2Q067	Q99615	0.76055
53446	Q2Q067	Q4G0G2	0.062331
53447	Q2Q067	Q96BK5	0.49728
53448	Q2Q067	Q8N3X1	0.15082
53449	Q2Q067	Q96M63	0.02824
53450	Q2Q067	O75530	0.60426
53451	Q2Q067	Q7L2K0	0.025513
53452	Q2Q067	Q9Y2J4	0.28511
53453	Q2Q067	O75533	0.27774
53454	Q2Q067	Q5TCQ9	0.51783
53455	Q2Q067	Q5VU43	0.91543
53456	Q2Q067	Q8N988	0.24518
53457	Q2Q067	P57772	0.29999
53458	Q2Q067	P59923	0.16182
53459	Q2Q067	Q9Y6B2	0.92479
53460	Q2Q067	Q8TC84	0.32989
53461	Q2Q067	Q9BQY4	0.91181
53462	Q2Q067	Q8N8R7	0.47001
53463	Q2Q067	Q16543	0.39807
53464	Q2Q067	Q96QR8	0.25392
53465	Q2Q067	Q13439	0.62465
53466	Q2Q067	Q9NVR5	0.37008
53467	Q2Q067	Q14865	0.29149
53468	Q2Q067	Q96CT7	0.048796
53469	Q2Q067	Q13094	0.58586
53470	Q2Q067	O95397	0.50547
53471	Q2Q067	Q9GZN2	0.41768
53472	Q2Q067	P0CJ85	0.27517
53473	Q2Q067	Q96RS0	0.59831
53474	Q2Q067	Q8TEQ6	0.79711
53475	Q2Q067	Q9NRG9	0.88098
53476	Q2Q067	Q08379	0.24553
53477	Q2Q067	Q9NRI7	0.19215
53478	Q2Q067	Q9BV86	0.27257
53479	Q2Q067	Q13045	1.0426
53480	Q2Q067	Q9Y4L5	0.34282
53481	Q2Q067	Q9UMS6	0.59922
53482	Q2Q067	P62829	0.96199
53483	Q2Q067	Q9NZZ3	0.97999
53484	Q2Q067	Q5VWN6	0.029137
53485	Q2Q067	Q9Y592	0.39615
53486	Q2Q067	Q9Y6H1	0.46303
53487	Q2Q067	Q92733	0.7732
53488	Q2Q067	Q8N2C9	0.0074981
53489	Q2Q067	Q9Y605	0.85968
53490	Q2Q067	Q8TE02	1.1888
53491	Q2Q067	Q9BRX2	0.29713
53492	Q2Q067	Q969J2	0.08952
53493	Q2Q067	Q9P2M1	0.47001
53494	Q2Q067	Q16514	0.88551
53495	Q2Q067	Q5VUA4	0.38433
53496	Q2Q067	Q658Y4	0.23348
53497	Q2Q067	Q8N616	0.19215
53498	Q2Q067	Q49A88	0.21748
53499	Q2Q067	Q6UB98	0.32989
53500	Q2Q067	A2RUB6	0.062424
53501	Q2Q067	Q9NYT6	0.087195
53502	Q2Q067	Q9BVJ6	0.76251
53503	Q2Q067	Q8NA31	0.32608
53504	Q2Q067	Q8NHW3	0.30206

53505	Q2Q067	P78396	0.88691
53506	Q2Q067	Q96FX7	0.14337
53507	Q2Q067	Q3SY84	0.15455
53508	Q2Q067	Q13951	0.69524
53509	Q2Q067	O00567	0.80842
53510	Q2Q067	P20962	0.26036
53511	Q2Q067	Q15185	0.49607
53512	Q2Q067	P0DM63	0.2076
53513	Q2Q067	Q494X3	0.2352
53514	Q2Q067	O15116	0.85257
53515	Q2Q067	Q96GM5	0.73649
53516	Q2Q067	Q6NSI3	0.46166
53517	Q2Q067	Q9Y4E1	0.23137
53518	Q2Q067	A6NM28	0.087389
53519	Q2Q067	Q86TC9	0.36967
53520	Q2Q067	P82970	0.65236
53521	Q2Q067	Q9Y2L8	0.2806
53522	Q2Q067	Q9NR77	0.17731
53523	Q2Q067	Q8IYB9	0.17393
53524	Q2Q067	Q14157	0.27733
53525	Q2Q067	P46100	0.53938
53526	Q2Q067	Q9BSQ5	0.21053
53527	Q2Q067	Q9NRY2	0.74516
53528	Q2Q067	Q6ZVQ6	0.64833
53529	Q2Q067	Q9BY27	0.1902
53530	Q2Q067	P0DMC3	0.19215
53531	Q2Q067	Q16621	0.5124
53532	Q2Q067	P56211	0.1133
53533	Q2Q067	Q9H410	0.86114
53534	Q2Q067	P46783	1.3783
53535	Q2Q067	Q92993	0.97777
53536	Q2Q067	P25815	0.50011
53537	Q2Q067	Q9UGL9	0.19215
53538	Q2Q067	Q8IYD1	0.25773
53539	Q2Q067	Q8IX07	0.30822
53540	Q2Q067	Q96DG6	0.020614
53541	Q2Q067	Q9BRS8	0.15525
53542	Q2Q067	O76021	0.18936
53543	Q2Q067	O60291	0.41047
53544	Q2Q067	Q5TB80	0.77652
53545	Q2Q067	O60907	0.78214
53546	Q2Q067	Q53G59	0.47555
53547	Q2Q067	Q6UWZ7	0.4372
53548	Q2Q067	O00198	0.3284
53549	Q2Q067	Q9P2I0	0.8431
53550	Q2Q067	Q1W6H9	0.57734
53551	Q2Q067	Q5RGN0	0.3158
53552	Q2Q067	P99999	0.71729
53553	Q2Q067	Q5SYE7	0.25742
53554	Q2Q067	Q6ZVF9	0.29429
53555	Q2Q067	Q6IA86	0.56015
53556	Q2Q067	Q8WWM1	0.29682
53557	Q2Q067	Q8TB05	0.29573
53558	Q2Q067	P10599	0.37112
53559	Q2Q067	Q8TCY9	0.18241
53560	Q2Q067	Q32M78	0.20406
53561	Q2Q067	Q15527	0.47257
53562	Q2Q067	Q9H9Z2	0.72373
53563	Q2Q067	O60225	0.12144
53564	Q2Q067	Q96EF9	0.13335
53565	Q2Q067	Q8NFB3	0.96831
53566	Q2Q067	Q9BVC6	0.25552
53567	Q2Q067	O00505	1.0699
53568	Q2Q067	O60299	0.22169
53569	Q2Q067	Q9BXS5	0.78023
53570	Q2Q067	Q15599	0.39808
53571	Q2Q067	P14651	0.82501
53572	Q2Q067	Q9UIA9	0.40708
53573	Q2Q067	Q9BUH6	0.21267
53574	Q2Q067	A6NK89	0.33428
53575	Q2Q067	Q8TEA8	0.49464
53576	Q2Q067	Q9P278	0.6859
53577	Q2Q067	Q9Y3C8	0.25661
53578	Q2Q067	Q8NAE3	0.14783
53579	Q2Q067	Q96EN9	0.28783
53580	Q2Q067	Q7Z465	0.70091

53581	Q2Q067	Q9H0B6	0.59695
53582	Q2Q067	P50749	0.68057
53583	Q2Q067	P53805	0.62064
53584	Q2Q067	Q701N2	0.19215
53585	Q2Q067	P53041	0.57333
53586	Q2Q067	Q03468	0.35123
53587	Q2Q067	Q6UUU7	0.95107
53588	Q2Q067	O75030	0.59186
53589	Q2Q067	O94850	0.13591
53590	Q2Q067	Q99996	0.47016
53591	Q2Q067	Q9H7U1	0.5887
53592	Q2Q067	P0CW24	0.063253
53593	Q2Q067	P61574	0.36503
53594	Q2Q067	O14771	0.34111
53595	Q2Q067	Q16890	0.39259
53596	Q2Q067	P57678	0.93385
53597	Q2Q067	O75920	0.59206
53598	Q2Q067	Q9UPW6	0.75656
53599	Q2Q067	Q9NQZ8	0.097501
53600	Q2Q067	P0CH99	0.33562
53601	Q2Q067	P25685	0.30525
53602	Q2Q067	Q5SWL7	0.33217
53603	Q2Q067	Q9BYD3	0.42449
53604	Q2Q067	Q6ZWC4	0.013407
53605	Q2Q067	P61244	0.92522
53606	Q2Q067	Q96JE7	0.46306
53607	Q2Q067	Q8WUW1	0.10774
53608	Q2Q067	Q8NHZ8	1.2126
53609	Q2Q067	Q8NFD5	0.8695
53610	Q2Q067	Q8WUI4	0.34989
53611	Q2Q067	Q9BUN5	0.39517
53612	Q2Q067	Q9P0J0	0.43792
53613	Q2Q067	Q8N823	0.16182
53614	Q2Q067	P17041	0.085739
53615	Q2Q067	P13984	0.54364
53616	Q2Q067	O60516	0.22678
53617	Q2Q067	Q9NZJ4	0.053608
53618	Q2Q067	Q6P9B9	0.14385
53619	Q2Q067	Q8N9K5	0.12582
53620	Q2Q067	P62495	0.6309
53621	Q2Q067	Q4VC05	0.24573
53622	Q2Q067	Q8WVP5	0.46852
53623	Q2Q067	P55055	0.27905
53624	Q2Q067	A8MUQ0	0.54439
53625	Q2Q067	Q9UIH9	0.33767
53626	Q2Q067	Q13243	0.73564
53627	Q2Q067	Q8IY85	0.24057
53628	Q2Q067	Q9UK41	0.70008
53629	Q2Q067	Q9ULW0	0.75066
53630	Q2Q067	P09661	0.6216
53631	Q2Q067	P38936	0.24536
53632	Q2Q067	H0Y7S4	0.0356
53633	Q2Q067	Q9BSG1	0.1979
53634	Q2Q067	Q13618	0.4084
53635	Q2Q067	P40925	0.50653
53636	Q2Q067	Q9NWQ4	0.25028
53637	Q2Q067	P0CJ79	0.13064
53638	Q2Q067	Q3MJ62	0.064855
53639	Q2Q067	Q969S3	0.69024
53640	Q2Q067	Q66K80	0.19215
53641	Q2Q067	P12956	0.28914
53642	Q2Q067	Q15796	0.6625
53643	Q2Q067	Q8N7M2	0.2352
53644	Q2Q067	Q9BT49	0.37438
53645	Q2Q067	O60765	0.1235
53646	Q2Q067	Q8NB50	0.17365
53647	Q2Q067	O95232	0.47333
53648	Q2Q067	O75475	1.437
53649	Q2Q067	P20248	1.0139
53650	Q2Q067	Q8N0V3	0.38294
53651	Q2Q067	Q9P2G4	0.29573
53652	Q2Q067	Q6ZUF6	0.039038
53653	Q2Q067	Q6ZV65	0.1916
53654	Q2Q067	Q9BYR8	0.46381
53655	Q2Q067	Q8IWZ3	0.95545
53656	Q2Q067	P21912	0.23634

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53659	Q2Q067	Q8IYB0	0.19215
53660	Q2Q067	O43790	0.24811
53661	Q2Q067	Q9H0W9	0.59309
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53663	Q2Q067	Q9NVU0	0.29186
53664	Q2Q067	Q9NZU7	0.33072
53665	Q2Q067	Q14739	0.24525
53666	Q2Q067	Q6PGP7	0.71583
53667	Q2Q067	Q15369	1.4885
53668	Q2Q067	Q3ZCT1	0.11131
53669	Q2Q067	P50570	0.2484
53670	Q2Q067	Q02241	0.60864
53671	Q2Q067	P0CG43	0.19215
53672	Q2Q067	Q02080	0.44277
53673	Q2Q067	O60303	0.089781
53674	Q2Q067	Q8N9N2	0.29007
53675	Q2Q067	Q8N344	0.56295
53676	Q2Q067	Q5SNV9	0.14361
53677	Q2Q067	Q68E01	0.51307
53678	Q2Q067	O60216	0.73233
53679	Q2Q067	Q96DM1	0.40861
53680	Q2Q067	Q9UKV8	0.82272
53681	Q2Q067	Q9P2R7	0.12719
53682	Q2Q067	P60412	0.34715
53683	Q2Q067	P39748	0.25775
53684	Q2Q067	Q8N1Q8	0.2254
53685	Q2Q067	Q86VQ0	0.22681
53686	Q2Q067	O75665	0.68434
53687	Q2Q067	Q5VTE6	0.005233
53688	Q2Q067	Q9NSI6	0.77944
53689	Q2Q067	Q9C0C2	0.12993
53690	Q2Q067	Q9NRL2	0.97584
53691	Q2Q067	O00321	0.36394
53692	Q2Q067	P62857	0.53096
53693	Q2Q067	Q7Z7C8	0.39993
53694	Q2Q067	Q9Y2P8	0.25341
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53696	Q2Q067	Q15366	0.97393
53697	Q2Q067	Q96KS0	0.15817
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53699	Q2Q067	O75164	1.0338
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53703	Q2Q067	Q96BY2	0.44081
53704	Q2Q067	O00139	0.30244
53705	Q2Q067	Q5HYK9	0.14282
53706	Q2Q067	Q96BP2	1.1637
53707	Q2Q067	Q6WBX8	0.40347
53708	Q2Q067	Q96S19	0.044202
53709	Q2Q067	O96007	0.35731
53710	Q2Q067	A8MWP6	0.19215
53711	Q2Q067	Q9NRA8	1.0807
53712	Q2Q067	Q9UBU8	0.72779
53713	Q2Q067	P12883	0.029906
53714	Q2Q067	P62875	0.15766
53715	Q2Q067	Q8NHU0	0.070895
53716	Q2Q067	Q9HAV4	1.1922
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53718	Q2Q067	P78337	0.43456
53719	Q2Q067	Q8N0W5	0.0050811
53720	Q2Q067	Q96C34	0.34894
53721	Q2Q067	Q02556	0.45623
53722	Q2Q067	Q96AQ1	0.32771
53723	Q2Q067	Q5TAB7	0.39269
53724	Q2Q067	Q9NTX9	0.033089
53725	Q2Q067	Q0VFX4	0.18567
53726	Q2Q067	Q9H4H8	0.30155
53727	Q2Q067	Q99496	0.41054
53728	Q2Q067	Q3L8U1	0.79413
53729	Q2Q067	P12524	0.28643
53730	Q2Q067	A4QMS7	0.12785
53731	Q2Q067	Q9BZS9	0.19215
53732	Q2Q067	Q53EZ4	0.61171



53733	Q2Q067	Q96IR3	0.36085
53734	Q2Q067	Q96QF7	0.090284
53735	Q2Q067	P23760	0.88981
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53737	Q2Q067	Q5PR19	0.14285
53738	Q2Q067	P09914	0.40286
53739	Q2Q067	P13489	0.40547
53740	Q2Q067	Q04725	0.84299
53741	Q2Q067	Q53G26	0.62959
53742	Q2Q067	Q5VTR2	0.65587
53743	Q2Q067	O95218	0.54912
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53746	Q2Q067	Q96NB1	0.071453
53747	Q2Q067	Q8N9Z0	0.20884
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53752	Q2Q067	O14593	0.71517
53753	Q2Q067	A6NH13	0.077732
53754	Q2Q067	Q96AT1	0.29573
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53757	Q2Q067	O60308	0.20737
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53759	Q2Q067	Q7L5D6	0.54305
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53761	Q2Q067	Q96NL0	0.093297
53762	Q2Q067	Q6ZS72	0.035036
53763	Q2Q067	Q96JN0	0.54127
53764	Q2Q067	P24928	0.79577
53765	Q2Q067	Q9BUK0	0.47723
53766	Q2Q067	Q2VY69	0.13644
53767	Q2Q067	P50453	0.67963
53768	Q2Q067	Q969H6	0.86242
53769	Q2Q067	Q7Z4T9	0.6529
53770	Q2Q067	Q8IYX3	0.49265
53771	Q2Q067	Q9Y6J9	0.84579
53772	Q2Q067	Q6ZN84	0.00073997
53773	Q2Q067	Q99607	1.146
53774	Q2Q067	Q8N8E3	0.13549
53775	Q2Q067	A1L190	0.45857
53776	Q2Q067	P19338	0.523
53777	Q2Q067	Q9NX63	0.76994
53778	Q2Q067	Q9UJ98	0.19368
53779	Q2Q067	Q7Z591	0.6833
53780	Q2Q067	P37198	0.94595
53781	Q2Q067	Q96FA3	0.27313
53782	Q2Q067	Q9H6W3	0.22721
53783	Q2Q067	P19419	1.4007
53784	Q2Q067	O76009	0.1595
53785	Q2Q067	Q86VE0	0.75201
53786	Q2Q067	A6NF01	0.53604
53787	Q2Q067	Q96T23	0.64822
53788	Q2Q067	Q7Z2X4	0.21413
53789	Q2Q067	A6NCN8	0.29573
53790	Q2Q067	Q13363	0.41999
53791	Q2Q067	Q9H0A9	0.65658
53792	Q2Q067	Q8WTV1	0.51793
53793	Q2Q067	Q9H0A8	0.47001
53794	Q2Q067	P49639	0.27943
53795	Q2Q067	A1A5D9	0.37499
53796	Q2Q067	P61956	0.66633
53797	Q2Q067	O95456	0.43156
53798	Q2Q067	Q8WTW4	0.27195
53799	Q2Q067	O43809	0.7152
53800	Q2Q067	Q08AG7	0.62715
53801	Q2Q067	P62879	0.45831
53802	Q2Q067	Q8N7U7	0.27961
53803	Q2Q067	O94986	1.1801
53804	Q2Q067	Q86X95	1.0119
53805	Q2Q067	Q4KMZ1	0.19545
53806	Q2Q067	Q9UQF2	0.49242
53807	Q2Q067	Q8NE22	0.51037
53808	Q2Q067	P51523	0.11099

53809	Q2Q067	H3BNL8	0.62577
53810	Q2Q067	Q5VWP3	0.45084
53811	Q2Q067	Q9UKV3	0.60252
53812	Q2Q067	Q13503	0.65819
53813	Q2Q067	O75122	0.23468
53814	Q2Q067	Q9H4A6	0.35272
53815	Q2Q067	Q9BYD2	0.40045
53816	Q2Q067	Q6P444	0.24596
53817	Q2Q067	Q96HA7	0.72884
53818	Q2Q067	Q86WG3	0.27301
53819	Q2Q067	Q86YW9	0.35753
53820	Q2Q067	Q15014	1.1838
53821	Q2Q067	Q9UQK1	0.31962
53822	Q2Q067	Q96PI1	0.35595
53823	Q2Q067	O95777	0.60859
53824	Q2Q067	C9JC47	0.19215
53825	Q2Q067	Q9H7L9	0.60114
53826	Q2Q067	Q8NFJ8	0.39592
53827	Q2Q067	Q7Z5V6	0.33218
53828	Q2Q067	O00232	0.22677
53829	Q2Q067	Q15029	0.24706
53830	Q2Q067	O94874	0.78286
53831	Q2Q067	Q9H963	0.18125
53832	Q2Q067	Q9Y3F1	0.19215
53833	Q2Q067	Q58F21	0.25544
53834	Q2Q067	A6NCI8	0.43502
53835	Q2Q067	Q92499	0.3782
53836	Q2Q067	Q8NI27	0.48653
53837	Q2Q067	P0C841	0.19215
53838	Q2Q067	P78316	0.62208
53839	Q2Q067	O15370	0.41049
53840	Q2Q067	P12036	0.38138
53841	Q2Q067	Q99687	0.51701
53842	Q2Q067	Q9UKT7	0.37815
53843	Q2Q067	Q969R5	0.12247
53844	Q2Q067	Q8TAC9	0.21229
53845	Q2Q067	Q8N4B4	0.0048627
53846	Q2Q067	Q9NYW8	0.073244
53847	Q2Q067	Q96NS1	0.15082
53848	Q2Q067	Q9Y3D5	0.317
53849	Q2Q067	O76064	0.25902
53850	Q2Q067	P41162	0.32805
53851	Q2Q067	Q9NX70	1.0414
53852	Q2Q067	Q5TZA2	0.60841
53853	Q2Q067	Q0VDD7	0.80408
53854	Q2Q067	Q8WY41	0.37563
53855	Q2Q067	Q13309	0.5599
53856	Q2Q067	Q9C073	0.39992
53857	Q2Q067	Q92621	1.1037
53858	Q2Q067	Q86TG7	0.47799
53859	Q2Q067	O95476	0.20316
53860	Q2Q067	Q15819	0.57992
53861	Q2Q067	P54920	0.41764
53862	Q2Q067	Q5BKZ1	0.44438
53863	Q2Q067	A2RTY3	0.090801
53864	Q2Q067	Q9UJC5	0.2992
53865	Q2Q067	A8MX80	0.36346
53866	Q2Q067	Q3B726	0.14307
53867	Q2Q067	Q9BYN7	0.11099
53868	Q2Q067	Q96E09	0.41087
53869	Q2Q067	Q9UN36	0.48375
53870	Q2Q067	P62072	0.21425
53871	Q2Q067	Q9NP98	0.29468
53872	Q2Q067	Q9BYZ2	0.28317
53873	Q2Q067	Q9UK99	0.33387
53874	Q2Q067	Q96GE5	0.22136
53875	Q2Q067	Q15257	0.45136
53876	Q2Q067	Q9NWF9	0.76376
53877	Q2Q067	Q9NQ33	0.49715
53878	Q2Q067	Q86UP8	0.020629
53879	Q2Q067	P62847	0.52089
53880	Q2Q067	Q13216	0.41003
53881	Q2Q067	P09016	0.20026
53882	Q2Q067	Q07866	0.57641
53883	Q2Q067	Q9Y6Z5	0.4296
53884	Q2Q067	Q96IV0	0.41955

53885	Q2Q067	E9PQ53	0.41088
53886	Q2Q067	Q8WWQ0	0.59548
53887	Q2Q067	Q8N7Z2	0.23387
53888	Q2Q067	Q2NKJ3	0.2483
53889	Q2Q067	Q9NX04	0.18379
53890	Q2Q067	Q5T0Z8	0.29573
53891	Q2Q067	Q8N720	0.87239
53892	Q2Q067	P51786	0.1134
53893	Q2Q067	Q9BWT1	0.5376
53894	Q2Q067	Q9BQ69	0.42245
53895	Q2Q067	O43812	0.33577
53896	Q2Q067	Q15466	0.57433
53897	Q2Q067	P19838	0.80098
53898	Q2Q067	Q8IZX4	0.32539
53899	Q2Q067	Q7Z739	0.35458
53900	Q2Q067	Q3LI61	0.19215
53901	Q2Q067	Q9BX70	0.50941
53902	Q2Q067	Q96RU7	0.40416
53903	Q2Q067	O75143	0.57818
53904	Q2Q067	Q9BTA0	0.29573
53905	Q2Q067	P81274	0.503
53906	Q2Q067	O75564	0.15072
53907	Q2Q067	Q9Y3E7	0.74027
53908	Q2Q067	Q9H4S2	0.23981
53909	Q2Q067	O75436	0.65274
53910	Q2Q067	Q02833	0.28004
53911	Q2Q067	O94805	0.65921
53912	Q2Q067	Q9NRI5	0.31353
53913	Q2Q067	O75822	0.69547
53914	Q2Q067	Q8NDM7	0.22433
53915	Q2Q067	A8K0S8	0.25814
53916	Q2Q067	Q96QK1	0.67258
53917	Q2Q067	Q9Y697	0.68656
53918	Q2Q067	O15318	0.39305
53919	Q2Q067	Q14764	1.0591
53920	Q2Q067	Q9NNW7	0.2469
53921	Q2Q067	Q14145	1.2608
53922	Q2Q067	Q8IWD4	0.29573
53923	Q2Q067	O43299	1.1628
53924	Q2Q067	P43351	0.6546
53925	Q2Q067	Q8IX90	0.54913
53926	Q2Q067	P78395	0.70004
53927	Q2Q067	O60675	0.44562
53928	Q2Q067	Q99962	0.23041
53929	Q2Q067	A6NGY1	0.40607
53930	Q2Q067	P28749	1.3398
53931	Q2Q067	Q68DK7	0.49031
53932	Q2Q067	A8K5M9	0.43931
53933	Q2Q067	Q8NG31	0.61982
53934	Q2Q067	Q9UI25	0.19215
53935	Q2Q067	O15397	0.78973
53936	Q2Q067	Q9HCZ1	0.1371
53937	Q2Q067	Q8NB42	0.24653
53938	Q2Q067	P09012	0.33137
53939	Q2Q067	P43268	0.47798
53940	Q2Q067	P20823	0.26562
53941	Q2Q067	A1L3X0	0.27937
53942	Q2Q067	Q56P03	0.3005
53943	Q2Q067	Q14CN4	0.16378
53944	Q2Q067	Q8IZQ1	0.57051
53945	Q2Q067	Q02952	0.095475
53946	Q2Q067	Q8N4S0	0.29573
53947	Q2Q067	Q68DX3	0.37964
53948	Q2Q067	Q15051	0.53775
53949	Q2Q067	Q96NM4	0.30214
53950	Q2Q067	A6NKU9	0.23617
53951	Q2Q067	O95865	0.35963
53952	Q2Q067	Q8TDB6	0.35545
53953	Q2Q067	O43504	0.14358
53954	Q2Q067	P49207	0.65612
53955	Q2Q067	O75943	0.18524
53956	Q2Q067	Q9P1Q0	0.3571
53957	Q2Q067	P78549	0.24732
53958	Q2Q067	Q15583	0.29195
53959	Q2Q067	P23193	1.2059
53960	Q2Q067	Q9H0C5	0.50935

53961	Q2Q067	Q16186	0.51632
53962	Q2Q067	Q9UFN0	0.66387
53963	Q2Q067	Q9ULW8	0.24394
53964	Q2Q067	Q96NL8	0.30292
53965	Q2Q067	P54098	0.41903
53966	Q2Q067	Q13228	1.167
53967	Q2Q067	O75360	0.48529
53968	Q2Q067	Q8WXC7	0.29877
53969	Q2Q067	P07738	0.39498
53970	Q2Q067	Q9UM11	1.1325
53971	Q2Q067	Q70EK8	0.35448
53972	Q2Q067	Q658L1	0.37222
53973	Q2Q067	Q3ZLR7	0.41066
53974	Q2Q067	Q9H9H4	0.34221
53975	Q2Q067	Q9H7E9	0.29573
53976	Q2Q067	A6NJG6	0.32768
53977	Q2Q067	Q9HBT7	0.1308
53978	Q2Q067	Q96CD0	0.28783
53979	Q2Q067	Q7L590	1.0005
53980	Q2Q067	Q9C035	0.5585
53981	Q2Q067	Q53HM4	0.086378
53982	Q2Q067	Q8NHS9	0.061239
53983	Q2Q067	Q13144	0.51879
53984	Q2Q067	P23258	0.25072
53985	Q2Q067	Q13155	0.64457
53986	Q2Q067	Q9H816	0.46804
53987	Q2Q067	Q96GX8	0.29573
53988	Q2Q067	O95373	0.99159
53989	Q2Q067	Q86VP1	0.44412
53990	Q2Q067	Q9H9L3	0.39744
53991	Q2Q067	Q9Y383	0.38285
53992	Q2Q067	P17861	0.71423
53993	Q2Q067	Q96CF2	0.13146
53994	Q2Q067	P23396	0.80307
53995	Q2Q067	Q8IWC1	0.51943
53996	Q2Q067	A6NMN3	0.23345
53997	Q2Q067	O76014	0.1595
53998	Q2Q067	Q6V702	0.047142
53999	Q2Q067	Q9H6Z9	0.51439
54000	Q2Q067	Q07687	0.50565
54001	Q2Q067	Q8TBZ5	0.11543
54002	Q2Q067	P0C852	0.19215
54003	Q2Q067	Q9NSI2	0.29573
54004	Q2Q067	Q8TE69	0.28783
54005	Q2Q067	Q86UD0	0.32989
54006	Q2Q067	Q9HAH1	0.17187
54007	Q2Q067	Q9BVT8	0.37351
54008	Q2Q067	P13645	0.24722
54009	Q2Q067	P61201	0.48844
54010	Q2Q067	Q9H1B7	0.54659
54011	Q2Q067	Q7RTU4	0.331
54012	Q2Q067	Q9UJX4	0.79494
54013	Q2Q067	Q96F83	0.23538
54014	Q2Q067	A8MUI8	0.12312
54015	Q2Q067	Q8N371	0.25169
54016	Q2Q067	Q86VM9	0.08833
54017	Q2Q067	Q9Y2P7	0.35911
54018	Q2Q067	O43913	0.32451
54019	Q2Q067	Q8NOV1	0.20711
54020	Q2Q067	Q09161	0.85247
54021	Q2Q067	Q6P3V2	0.044968
54022	Q2Q067	Q12968	0.69183
54023	Q2Q067	Q9Y5J7	0.22811
54024	Q2Q067	Q1W209	0.19215
54025	Q2Q067	P28074	0.58405
54026	Q2Q067	O75346	0.21624
54027	Q2Q067	A6NLJ0	0.4501
54028	Q2Q067	Q8NEG2	0.24764
54029	Q2Q067	Q5T6C5	0.41879
54030	Q2Q067	P53618	0.75935
54031	Q2Q067	Q7L266	0.20407
54032	Q2Q067	Q9H009	0.26705
54033	Q2Q067	P54136	0.70579
54034	Q2Q067	P25789	0.71276
54035	Q2Q067	Q15572	0.52261
54036	Q2Q067	A6NCJ1	0.075582

54037	Q2Q067	Q93008	0.3667
54038	Q2Q067	Q8N5U0	0.19215
54039	Q2Q067	Q14588	0.16182
54040	Q2Q067	Q8WV24	0.58814
54041	Q2Q067	Q6ZRM9	0.29537
54042	Q2Q067	Q6PJG2	0.73738
54043	Q2Q067	O14529	0.38741
54044	Q2Q067	Q92540	0.97845
54045	Q2Q067	P52630	0.74354
54046	Q2Q067	Q6P3X8	0.23464
54047	Q2Q067	Q9P013	0.45511
54048	Q2Q067	Q9UPY8	0.92011
54049	Q2Q067	O43791	0.54707
54050	Q2Q067	Q9H0U6	0.21747
54051	Q2Q067	O00629	0.54258
54052	Q2Q067	O60248	0.53834
54053	Q2Q067	Q9HCE1	0.67098
54054	Q2Q067	Q9UKD2	0.092757
54055	Q2Q067	Q5T5Y3	0.10527
54056	Q2Q067	Q9H501	0.72614
54057	Q2Q067	Q14839	0.53856
54058	Q2Q067	Q2M2W7	0.29573
54059	Q2Q067	Q8N7R1	0.3413
54060	Q2Q067	Q9UBC1	0.47546
54061	Q2Q067	Q96LL4	0.29573
54062	Q2Q067	Q13620	0.69543
54063	Q2Q067	Q6ZMV8	0.25223
54064	Q2Q067	Q9NRX3	0.34211
54065	Q2Q067	Q6UVJ0	0.73827
54066	Q2Q067	Q9Y543	0.33048
54067	Q2Q067	O15504	0.55455
54068	Q2Q067	Q9UPV9	0.73538
54069	Q2Q067	Q9Y6D9	0.89613
54070	Q2Q067	Q8WW01	0.16169
54071	Q2Q067	Q96H79	0.31077
54072	Q2Q067	P15336	0.91556
54073	Q2Q067	O60885	0.72097
54074	Q2Q067	Q5HYJ3	0.27696
54075	Q2Q067	Q7L592	0.1846
54076	Q2Q067	Q9Y2X0	0.49579
54077	Q2Q067	Q96HT8	0.76267
54078	Q2Q067	O95996	0.22899
54079	Q2Q067	Q86XD5	0.087168
54080	Q2Q067	O95073	1.0622
54081	Q2Q067	Q8N9W8	0.63352
54082	Q2Q067	Q9Y4K1	0.36388
54083	Q2Q067	P59998	0.032071
54084	Q2Q067	Q14592	0.11369
54085	Q2Q067	Q9BY65	0.17246
54086	Q2Q067	Q8IXH7	1.211
54087	Q2Q067	Q9HCG8	0.13524
54088	Q2Q067	P21399	0.34387
54089	Q2Q067	Q9UQ35	0.27937
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54091	Q2Q067	Q8TB33	0.0020931
54092	Q2Q067	A6NLX3	0.086897
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54094	Q2Q067	Q8N5Q1	0.63352
54095	Q2Q067	Q6AZW8	0.11061
54096	Q2Q067	Q6NSZ9	0.058453
54097	Q2Q067	Q9BVW5	0.93848
54098	Q2Q067	P12757	0.31397
54099	Q2Q067	A6NMK8	0.24138
54100	Q2Q067	Q8WU39	0.19746
54101	Q2Q067	P28838	0.32575
54102	Q2Q067	A6NI86	0.36408
54103	Q2Q067	O43615	0.12862
54104	Q2Q067	Q9H2K0	0.15085
54105	Q2Q067	P35813	0.24988
54106	Q2Q067	Q8N1K5	0.19622
54107	Q2Q067	Q9BUJ2	1.1326
54108	Q2Q067	P42768	0.32835
54109	Q2Q067	Q86V15	0.24936
54110	Q2Q067	Q9UKT4	0.85641
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54112	Q2Q067	A2IDD5	0.24519

54113	Q2Q067	Q9H3P2	1.0781
54114	Q2Q067	Q6NUQ1	0.46762
54115	Q2Q067	Q8NFZ5	0.91099
54116	Q2Q067	Q9BYV9	0.36753
54117	Q2Q067	Q6ZNG0	0.095101
54118	Q2Q067	Q6J272	0.45578
54119	Q2Q067	P25963	0.6963
54120	Q2Q067	Q9UHT9	0.19215
54121	Q2Q067	Q8N9F8	0.12347
54122	Q2Q067	Q99619	0.50289
54123	Q2Q067	P0CG47	0.43777
54124	Q2Q067	Q9H503	0.24679
54125	Q2Q067	Q9P2K3	1.2155
54126	Q2Q067	Q5TG92	0.24542
54127	Q2Q067	P40121	0.36665
54128	Q2Q067	Q96MY1	0.41206
54129	Q2Q067	P04053	0.16257
54130	Q2Q067	P19013	0.3611
54131	Q2Q067	Q9UGK3	0.63634
54132	Q2Q067	P20042	0.45905
54133	Q2Q067	A1L170	0.19215
54134	Q2Q067	P0C7V5	0.16874
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54136	Q2Q067	P20290	1.1159
54137	Q2Q067	O43186	0.91667
54138	Q2Q067	Q13619	0.37811
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54140	Q2Q067	P17021	0.12412
54141	Q2Q067	Q13569	0.47474
54142	Q2Q067	Q86U86	1.0201
54143	Q2Q067	Q86UW6	0.057907
54144	Q2Q067	O76042	0.26541
54145	Q2Q067	Q7RTV0	0.46192
54146	Q2Q067	Q6ZTI0	0.19215
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54150	Q2Q067	Q9HB03	0.27937
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54155	Q2Q067	Q6PJ61	0.47865
54156	Q2Q067	Q9UNY4	0.43574
54157	Q2Q067	Q8WV99	0.17572
54158	Q2Q067	P57740	0.79639
54159	Q2Q067	P06744	0.58779
54160	Q2Q067	O95983	1.2526
54161	Q2Q067	Q96T76	0.87561
54162	Q2Q067	Q8N998	0.1321
54163	Q2Q067	Q96BD8	0.57652
54164	Q2Q067	Q9H446	0.28783
54165	Q2Q067	Q8N865	0.067777
54166	Q2Q067	Q04917	0.24793
54167	Q2Q067	Q96QT6	0.90151
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54171	Q2Q067	Q9UI95	1.2173
54172	Q2Q067	Q9H900	0.4861
54173	Q2Q067	Q9Y3D0	0.93292
54174	Q2Q067	Q9HC62	0.44458
54175	Q2Q067	Q8N584	0.41526
54176	Q2Q067	O75934	0.65319
54177	Q2Q067	Q8N769	0.04082
54178	Q2Q067	Q9NWW0	0.1321
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54180	Q2Q067	Q9Y5N6	0.58096
54181	Q2Q067	Q15545	0.916
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54183	Q2Q067	Q9UID6	0.49754
54184	Q2Q067	Q14872	0.82318
54185	Q2Q067	A6H8Z2	0.099505
54186	Q2Q067	A6NGY3	0.014439
54187	Q2Q067	Q969H0	0.71405
54188	Q2Q067	P11441	0.55479

54189	Q2Q067	Q5T655	0.19215
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54191	Q2Q067	Q8N9Z2	0.28913
54192	Q2Q067	P33552	0.24853
54193	Q2Q067	Q3KNV8	0.88293
54194	Q2Q067	P27348	0.27005
54195	Q2Q067	O75688	0.30336
54196	Q2Q067	P63173	0.55038
54197	Q2Q067	Q15170	0.91417
54198	Q2Q067	Q8N1V2	0.4017
54199	Q2Q067	O95271	0.55337
54200	Q2Q067	A4D1E1	0.34832
54201	Q2Q067	Q7Z5W3	0.30807
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54204	Q2Q067	Q9BPW8	0.2403
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54208	Q2Q067	Q03111	1.2772
54209	Q2Q067	Q9BYQ0	0.34715
54210	Q2Q067	P31946	0.57881
54211	Q2Q067	Q9Y3C5	0.38958
54212	Q2Q067	Q717R9	0.11898
54213	Q2Q067	Q96HQ0	0.10921
54214	Q2Q067	Q99590	0.54874
54215	Q2Q067	Q9H6V9	0.14806
54216	Q2Q067	Q32P41	0.33795
54217	Q2Q067	Q3ZCQ2	0.19215
54218	Q2Q067	Q13416	0.52064
54219	Q2Q067	Q6NUR6	0.33189
54220	Q2Q067	Q96JN8	0.097927
54221	Q2Q067	Q9BRR8	0.45395
54222	Q2Q067	Q9UKN5	0.24654
54223	Q2Q067	P0DKX0	0.20817
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54225	Q2Q067	O60759	0.33914
54226	Q2Q067	Q9UNY5	0.23106
54227	Q2Q067	Q8TB72	0.48365
54228	Q2Q067	P22415	0.52116
54229	Q2Q067	Q9H4D5	0.27675
54230	Q2Q067	Q8NA72	0.16939
54231	Q2Q067	Q96N06	0.20389
54232	Q2Q067	Q9BQE6	0.18439
54233	Q2Q067	Q9NS73	0.71625
54234	Q2Q067	P10244	0.5915
54235	Q2Q067	Q8N3L3	0.44763
54236	Q2Q067	Q9H707	0.11835
54237	Q2Q067	Q96MG7	0.78122
54238	Q2Q067	Q6VB84	0.45162
54239	Q2Q067	O75150	0.45876
54240	Q2Q067	A8MX34	0.043653
54241	Q2Q067	P0C7P2	0.08037
54242	Q2Q067	Q9UM07	0.32946
54243	Q2Q067	Q96H12	0.59249
54244	Q2Q067	Q06455	0.68894
54245	Q2Q067	Q13761	0.7696
54246	Q2Q067	Q9NSJ1	0.13291
54247	Q2Q067	Q9H5V9	0.26016
54248	Q2Q067	Q9NY12	0.17397
54249	Q2Q067	Q6ZT83	0.029944
54250	Q2Q067	Q9UI32	0.32457
54251	Q2Q067	Q9BYA6	0.19215
54252	Q2Q067	Q6ULP2	0.60143
54253	Q2Q067	P13647	0.84255
54254	Q2Q067	O75410	0.71458
54255	Q2Q067	Q5VZR2	0.54396
54256	Q2Q067	E5RJ46	0.19215
54257	Q2Q067	Q9UKT9	0.46923
54258	Q2Q067	Q6ZUL3	0.19215
54259	Q2Q067	P82675	0.26409
54260	Q2Q067	Q9C000	0.23977
54261	Q2Q067	P41208	0.56902
54262	Q2Q067	P52292	1.0043
54263	Q2Q067	Q2KHT3	0.27949
54264	Q2Q067	Q9H0A6	0.322

54265	Q2Q067	Q8N9Z9	0.5973
54266	Q2Q067	Q96HZ7	0.19215
54267	Q2Q067	Q9UMQ3	0.70586
54268	Q2Q067	Q5HYK7	1.1753
54269	Q2Q067	Q92567	0.097372
54270	Q2Q067	Q6ZS92	0.05235
54271	Q2Q067	O15155	0.050295
54272	Q2Q067	Q5JVS0	0.77575
54273	Q2Q067	Q96IY1	0.88845
54274	Q2Q067	Q5SVZ6	0.52342
54275	Q2Q067	P52298	0.60569
54276	Q2Q067	Q9NR09	0.34827
54277	Q2Q067	Q9H9J2	0.13576
54278	Q2Q067	Q3YBR2	0.47307
54279	Q2Q067	P52655	1.0625
54280	Q2Q067	B3KS81	0.075701
54281	Q2Q067	Q6ZP98	0.033666
54282	Q2Q067	Q8TCJ0	0.52452
54283	Q2Q067	Q9UI43	0.36696
54284	Q2Q067	P19484	0.56917
54285	Q2Q067	O14646	0.56733
54286	Q2Q067	Q13901	1.0971
54287	Q2Q067	Q96NY9	0.59748
54288	Q2Q067	P0CG12	0.63746
54289	Q2Q067	P16989	0.24429
54290	Q2Q067	O95238	0.27218
54291	Q2Q067	B4DU55	0.14861
54292	Q2Q067	H3BNL1	0.19958
54293	Q2Q067	Q6PG37	0.24987
54294	Q2Q067	P31314	0.64403
54295	Q2Q067	Q9BPX1	0.24031
54296	Q2Q067	O60290	0.31054
54297	Q2Q067	Q86XK3	0.65109
54298	Q2Q067	O75373	0.12589
54299	Q2Q067	O75113	0.86437
54300	Q2Q067	C9J6K1	0.20143
54301	Q2Q067	Q9BYX4	0.22796
54302	Q2Q067	Q6RUI8	0.16407
54303	Q2Q067	Q9Y618	1.0608
54304	Q2Q067	Q8IW36	0.22586
54305	Q2Q067	Q14209	1.0888
54306	Q2Q067	Q9BRP1	0.44985
54307	Q2Q067	Q96IK1	0.046572
54308	Q2Q067	Q9UFG5	0.28783
54309	Q2Q067	O95619	0.82652
54310	Q2Q067	P20618	0.7081
54311	Q2Q067	Q96Q35	0.21453
54312	Q2Q067	Q19AV6	0.6616
54313	Q2Q067	Q05BW5	0.1197
54314	Q2Q067	Q96CS4	0.0891
54315	Q2Q067	A6NEF3	0.37471
54316	Q2Q067	Q9BTL4	0.23433
54317	Q2Q067	P45984	0.31783
54318	Q2Q067	Q15628	0.59619
54319	Q2Q067	Q9H0U9	0.32889
54320	Q2Q067	Q13642	0.39105
54321	Q2Q067	Q49AA0	0.22377
54322	Q2Q067	P43356	0.90472
54323	Q2Q067	A6NIH7	0.14363
54324	Q2Q067	Q9HBM6	0.64399
54325	Q2Q067	Q96LR7	0.4017
54326	Q2Q067	P42771	0.57159
54327	Q2Q067	Q8N490	0.19295
54328	Q2Q067	Q8IZT6	0.29741
54329	Q2Q067	P17096	0.56949
54330	Q2Q067	Q9NP79	0.21927
54331	Q2Q067	Q6L8G8	0.19215
54332	Q2Q067	O95817	0.40658
54333	Q2Q067	P14652	0.75998
54334	Q2Q067	Q9UNE7	0.29173
54335	Q2Q067	Q96GS4	0.55202
54336	Q2Q067	Q04724	0.87158
54337	Q2Q067	P48147	0.17299
54338	Q2Q067	O95831	0.82038
54339	Q2Q067	Q9ULG1	0.25781
54340	Q2Q067	O75956	0.12532



54341	Q2Q067	P48595	0.15224
54342	Q2Q067	P35269	1.1671
54343	Q2Q067	Q86SQ7	0.92008
54344	Q2Q067	Q6PIF2	0.22309
54345	Q2Q067	Q8TE85	0.26235
54346	Q2Q067	Q15427	0.26438
54347	Q2Q067	Q9H6Z4	1.0909
54348	Q2Q067	Q8TC76	0.8034
54349	Q2Q067	Q13425	0.41362
54350	Q2Q067	P11474	0.3714
54351	Q2Q067	Q99623	1.0884
54352	Q2Q067	P09497	0.36942
54353	Q2Q067	Q14139	0.52171
54354	Q2Q067	Q8IUR6	0.96386
54355	Q2Q067	O76015	0.1595
54356	Q2Q067	Q8N987	0.18628
54357	Q2Q067	O60763	0.33937
54358	Q2Q067	Q9GZU2	0.4615
54359	Q2Q067	Q9UKK6	0.65001
54360	Q2Q067	Q86TJ5	0.090948
54361	Q2Q067	O94925	0.51299
54362	Q2Q067	Q12824	0.96773
54363	Q2Q067	Q6NSI8	0.36551
54364	Q2Q067	Q6DKK2	0.92814
54365	Q2Q067	Q15714	0.77243
54366	Q2Q067	Q9Y2X3	0.62828
54367	Q2Q067	Q9BXV9	0.19215
54368	Q2Q067	O00161	0.83252
54369	Q2Q067	Q8N6Y0	0.57595
54370	Q2Q067	P80723	0.2424
54371	Q2Q067	A1L188	0.30457
54372	Q2Q067	O43513	1.173
54373	Q2Q067	O43325	0.47607
54374	Q2Q067	Q9UBL0	0.1095
54375	Q2Q067	Q9NS23	0.26693
54376	Q2Q067	Q6PI48	0.51597
54377	Q2Q067	Q0VG06	0.44196
54378	Q2Q067	Q00653	1.2521
54379	Q2Q067	Q8IVC4	0.10131
54380	Q2Q067	Q9UHN1	0.068535
54381	Q2Q067	Q9Y5J3	0.33325
54382	Q2Q067	Q15833	0.31713
54383	Q2Q067	Q8N488	0.48407
54384	Q2Q067	Q96MB7	0.23984
54385	Q2Q067	P0CG48	0.42887
54386	Q2Q067	P49459	0.18529
54387	Q2Q067	Q9UK10	0.16182
54388	Q2Q067	Q9NRX2	0.22339
54389	Q2Q067	P42166	0.10415
54390	Q2Q067	A8MUZ8	0.25083
54391	Q2Q067	Q9UPA5	0.11064
54392	Q2Q067	P29083	1.1985
54393	Q2Q067	P04731	0.18499
54394	Q2Q067	A6NJB7	0.48545
54395	Q2Q067	O75791	0.99055
54396	Q2Q067	Q5SVJ3	0.13859
54397	Q2Q067	Q8N8D1	0.34559
54398	Q2Q067	Q5JUK9	0.071824
54399	Q2Q067	O14925	0.11495
54400	Q2Q067	P60953	0.52014
54401	Q2Q067	Q96GG9	0.23957
54402	Q2Q067	P0C5Y4	0.18143
54403	Q2Q067	P0CZ20	0.1398
54404	Q2Q067	Q5JUQ0	0.0064825
54405	Q2Q067	Q9BZE2	0.6962
54406	Q2Q067	A6NJI1	0.11178
54407	Q2Q067	O75382	0.23749
54408	Q2Q067	P25205	0.31163
54409	Q2Q067	Q9NY43	0.4479
54410	Q2Q067	O60504	0.67904
54411	Q2Q067	Q9ULL0	0.32402
54412	Q2Q067	Q9HAI6	0.36248
54413	Q2Q067	O75154	0.77122
54414	Q2Q067	Q96EK4	1.1978
54415	Q2Q067	P07315	0.553
54416	Q2Q067	Q86WR0	0.13106

54417	Q2Q067	Q96SE7	0.1529
54418	Q2Q067	Q9P0U1	0.11286
54419	Q2Q067	A6QL64	0.24591
54420	Q2Q067	O14556	0.45488
54421	Q2Q067	Q9NWB7	0.54182
54422	Q2Q067	P40855	0.17848
54423	Q2Q067	Q08752	0.31714
54424	Q2Q067	Q6ICG8	0.71678
54425	Q2Q067	A1L168	0.29573
54426	Q2Q067	Q13895	0.71903
54427	Q2Q067	P35251	0.26843
54428	Q2Q067	Q8N6M0	0.050661
54429	Q2Q067	Q9HCK8	0.33915
54430	Q2Q067	P46013	0.057215
54431	Q2Q067	P47974	0.25497
54432	Q2Q067	Q86YI8	0.51239
54433	Q2Q067	P40926	0.31757
54434	Q2Q067	Q9H7B2	0.46797
54435	Q2Q067	Q13409	0.42104
54436	Q2Q067	Q9BQ65	0.23303
54437	Q2Q067	Q14676	0.59527
54438	Q2Q067	P62316	0.81631
54439	Q2Q067	Q8N7Y1	0.19215
54440	Q2Q067	A6NNA2	0.41991
54441	Q2Q067	Q7RTU0	0.331
54442	Q2Q067	P61575	0.36503
54443	Q2Q067	Q96EZ4	0.19215
54444	Q2Q067	Q9P242	0.41813
54445	Q2Q067	Q8N7H5	0.90831
54446	Q2Q067	O43318	0.56984
54447	Q2Q067	Q86TS9	0.28685
54448	Q2Q067	P47928	0.42634
54449	Q2Q067	Q9UJA5	0.54666
54450	Q2Q067	Q7L945	0.13415
54451	Q2Q067	Q8NDQ6	0.14494
54452	Q2Q067	Q92600	1.1929
54453	Q2Q067	O75764	0.15182
54454	Q2Q067	A6NHR8	0.19215
54455	Q2Q067	Q9UI54	0.19215
54456	Q2Q067	Q495M9	0.2632
54457	Q2Q067	Q13106	0.088399
54458	Q2Q067	O43395	0.77663
54459	Q2Q067	P49336	0.30371
54460	Q2Q067	Q9GZT9	0.28162
54461	Q2Q067	Q9ULZ2	0.73769
54462	Q2Q067	Q86XF7	0.26079
54463	Q2Q067	Q5TEC3	0.10451
54464	Q2Q067	Q96AY2	0.70921
54465	Q2Q067	Q8IYN6	0.41087
54466	Q2Q067	O95487	0.71201
54467	Q2Q067	Q9UIL8	0.26767
54468	Q2Q067	Q9Y294	0.98793
54469	Q2Q067	Q9HA77	0.22897
54470	Q2Q067	P61758	0.58553
54471	Q2Q067	Q96PU4	0.30404
54472	Q2Q067	Q9H4B6	0.6052
54473	Q2Q067	Q969V6	1.3959
54474	Q2Q067	Q9UHD4	0.36735
54475	Q2Q067	Q6KB66	0.16378
54476	Q2Q067	Q8TED0	0.2608
54477	Q2Q067	Q658K8	0.25783
54478	Q2Q067	Q9P016	0.28009
54479	Q2Q067	Q5T230	1.238
54480	Q2Q067	Q9H2L5	0.35152
54481	Q2Q067	Q99700	0.7581
54482	Q2Q067	Q6ZNM6	0.39825
54483	Q2Q067	O15182	0.29326
54484	Q2Q067	O43633	0.0924
54485	Q2Q067	Q6NZ67	0.65427
54486	Q2Q067	O14964	0.59632
54487	Q2Q067	O95125	0.10046
54488	Q2Q067	Q9P1Z2	0.80685
54489	Q2Q067	A6NIN4	0.19215
54490	Q2Q067	Q96PK6	0.6901
54491	Q2Q067	Q9Y2S6	0.19215
54492	Q2Q067	Q9UIF9	0.66537

54493	Q2Q067	P58304	0.2505
54494	Q2Q067	O60583	1.0344
54495	Q2Q067	Q8WVZ9	0.37541
54496	Q2Q067	Q3LI59	0.19215
54497	Q2Q067	Q8TCC3	0.050442
54498	Q2Q067	Q8NAQ8	0.76219
54499	Q2Q067	Q8IYE0	0.40359
54500	Q2Q067	Q9Y4P8	0.86574
54501	Q2Q067	P00338	0.44348
54502	Q2Q067	O43765	0.56998
54503	Q2Q067	Q68CP9	0.49369
54504	Q2Q067	Q6ZVN8	0.16496
54505	Q2Q067	O14737	0.20547
54506	Q2Q067	Q5JSJ4	0.69602
54507	Q2Q067	Q6ZV60	0.19215
54508	Q2Q067	Q96D15	0.23084
54509	Q2Q067	Q9GZN7	0.23416
54510	Q2Q067	Q8IXT1	0.14088
54511	Q2Q067	Q7Z6M4	0.3396
54512	Q2Q067	Q9NUS5	0.49249
54513	Q2Q067	A6NHY6	0.0020931
54514	Q2Q067	Q7Z4H3	0.17558
54515	Q2Q067	A6NCS6	0.16295
54516	Q2Q067	Q9BVS5	0.23308
54517	Q2Q067	P24863	1.1027
54518	Q2Q067	Q9H808	0.54509
54519	Q2Q067	P27986	0.56117
54520	Q2Q067	Q14146	0.19215
54521	Q2Q067	Q16385	0.77981
54522	Q2Q067	Q8NCU4	0.10943
54523	Q2Q067	O94916	0.1921
54524	Q2Q067	Q5T2W1	0.38598
54525	Q2Q067	P17019	0.24839
54526	Q2Q067	Q05086	0.36811
54527	Q2Q067	Q9BXS6	0.35465
54528	Q2Q067	Q0VFX6	0.29573
54529	Q2Q067	P0CG31	0.10282
54530	Q2Q067	Q9NP71	0.57066
54531	Q2Q067	P16455	0.15841
54532	Q2Q067	Q9UKF6	0.72295
54533	Q2Q067	P28070	0.48151
54534	Q2Q067	P43897	0.5868
54535	Q2Q067	Q8IXM7	0.030976
54536	Q2Q067	Q9NPJ4	1.216
54537	Q2Q067	Q8N693	0.45786
54538	Q2Q067	Q8NDZ2	0.093968
54539	Q2Q067	Q9Y2G2	0.46379
54540	Q2Q067	Q9H9L7	0.20402
54541	Q2Q067	Q96M85	0.19215
54542	Q2Q067	Q14244	0.36124
54543	Q2Q067	O60682	0.33408
54544	Q2Q067	Q9BYH8	0.29711
54545	Q2Q067	Q6ZUC2	0.037726
54546	Q2Q067	Q8TAQ2	1.3657
54547	Q2Q067	Q86WJ1	0.26769
54548	Q2Q067	Q01831	0.6541
54549	Q2Q067	Q52MB2	0.54194
54550	Q2Q067	Q8WU49	0.19215
54551	Q2Q067	Q3LHN2	0.19215
54552	Q2Q067	Q9NYF3	0.18893
54553	Q2Q067	P39019	0.89125
54554	Q2Q067	Q32MH5	0.19038
54555	Q2Q067	Q92844	0.43515
54556	Q2Q067	O75558	0.49308
54557	Q2Q067	P0C7X2	0.29369
54558	Q2Q067	B1ANY3	0.12253
54559	Q2Q067	Q0VG73	0.19215
54560	Q2Q067	Q14493	0.90013
54561	Q2Q067	Q4LEZ3	0.53771
54562	Q2Q067	Q96RE7	0.97958
54563	Q2Q067	Q8WUM0	0.71047
54564	Q2Q067	Q8NEG4	0.18146
54565	Q2Q067	P62256	0.1399
54566	Q2Q067	O96018	0.40012
54567	Q2Q067	Q9BQE4	0.30448
54568	Q2Q067	Q92793	0.69902

54569	Q2Q067	Q86U70	0.22923
54570	Q2Q067	Q12894	0.37525
54571	Q2Q067	Q6ZTC4	0.19215
54572	Q2Q067	P59052	0.21828
54573	Q2Q067	Q8WYK2	0.34507
54574	Q2Q067	Q6ZSA8	0.19215
54575	Q2Q067	Q9Y2G7	0.27402
54576	Q2Q067	Q14582	0.27371
54577	Q2Q067	Q9BW92	0.14821
54578	Q2Q067	Q5T8I3	0.036233
54579	Q2Q067	Q8IYX0	0.22687
54580	Q2Q067	Q6ZS94	0.19215
54581	Q2Q067	Q70IA6	0.33544
54582	Q2Q067	Q92734	0.086426
54583	Q2Q067	Q9NY27	0.83126
54584	Q2Q067	Q93052	0.28159
54585	Q2Q067	Q01860	0.71188
54586	Q2Q067	Q9H204	1.1366
54587	Q2Q067	P18848	1.1446
54588	Q2Q067	Q5VZT2	0.079214
54589	Q2Q067	Q69YH5	0.70287
54590	Q2Q067	O94817	0.47665
54591	Q2Q067	Q5TGS1	0.49191
54592	Q2Q067	Q6ZR54	0.19215
54593	Q2Q067	Q9UJW7	0.087195
54594	Q2Q067	Q9NWX8	0.77708
54595	Q2Q067	Q6IEG0	0.28458
54596	Q2Q067	Q96MF7	0.50143
54597	Q2Q067	Q9NSC2	0.30573
54598	Q2Q067	P28066	0.64272
54599	Q2Q067	P68036	0.70287
54600	Q2Q067	P63000	0.53952
54601	Q2Q067	Q9BZR8	0.40255
54602	Q2Q067	A8MU93	0.29573
54603	Q2Q067	Q5T749	0.36489
54604	Q2Q067	Q03393	0.052168
54605	Q2Q067	O00165	0.70942
54606	Q2Q067	B3EWG5	0.29573
54607	Q2Q067	Q6DHV5	0.040826
54608	Q2Q067	Q5T8I9	0.060217
54609	Q2Q067	Q92670	0.11083
54610	Q2Q067	Q2M2I5	0.24903
54611	Q2Q067	B1AK76	0.45637
54612	Q2Q067	Q6ZRQ5	0.5726
54613	Q2Q067	P41250	0.083964
54614	Q2Q067	Q8NA57	0.38348
54615	Q2Q067	Q9BT78	0.97885
54616	Q2Q067	Q9UGJ1	0.23823
54617	Q2Q067	Q5HYN5	0.068648
54618	Q2Q067	Q8IW50	0.29573
54619	Q2Q067	Q5C9Z4	0.68611
54620	Q2Q067	P0CG29	0.2324
54621	Q2Q067	P35579	0.76187
54622	Q2Q067	Q9P287	0.63694
54623	Q2Q067	P82664	0.51696
54624	Q2Q067	Q8IXQ6	0.8177
54625	Q2Q067	O95613	0.74518
54626	Q2Q067	Q9UL18	1.0094
54627	Q2Q067	P35606	0.3668
54628	Q2Q067	Q14683	0.40589
54629	Q2Q067	Q8WVM7	0.74085
54630	Q2Q067	P52736	0.59639
54631	Q2Q067	Q8N9G6	0.38062
54632	Q2Q067	Q96FJ2	0.73009
54633	Q2Q067	P61353	0.68644
54634	Q2Q067	Q92845	0.21744
54635	Q2Q067	Q8N3Z6	0.219
54636	Q2Q067	Q01826	0.78354
54637	Q2Q067	Q5VWT5	0.29297
54638	Q2Q067	Q8WTW3	0.43424
54639	Q2Q067	P63272	0.98552
54640	Q2Q067	Q96NJ3	0.092025
54641	Q2Q067	Q96DM3	0.12918
54642	Q2Q067	Q9BTD1	0.11911
54643	Q2Q067	O75800	0.37316
54644	Q2Q067	Q6ZRH4	0.7143

54645	Q2Q067	P14324	0.30544
54646	Q2Q067	Q86XN6	0.16407
54647	Q2Q067	P0C5J1	0.0062999
54648	Q2Q067	O15371	0.66708
54649	Q2Q067	Q63HN1	0.041424
54650	Q2Q067	Q8N5L8	0.59554
54651	Q2Q067	Q04637	0.56617
54652	Q2Q067	Q9BZQ2	0.20753
54653	Q2Q067	Q49MG5	0.81452
54654	Q2Q067	Q96L21	0.22517
54655	Q2Q067	P21675	0.40917
54656	Q2Q067	Q8WWB5	0.37929
54657	Q2Q067	Q9BRU9	0.27054
54658	Q2Q067	P30305	0.34443
54659	Q2Q067	Q9H607	0.20751
54660	Q2Q067	Q9NXK8	0.54027
54661	Q2Q067	Q96FN9	0.2423
54662	Q2Q067	O14519	0.16694
54663	Q2Q067	Q9GZX5	0.78838
54664	Q2Q067	Q8N5J2	0.64851
54665	Q2Q067	Q3SYG4	0.3028
54666	Q2Q067	Q9Y375	0.55492
54667	Q2Q067	Q86WI3	0.49128
54668	Q2Q067	P43487	0.2174
54669	Q2Q067	Q9NP87	0.027903
54670	Q2Q067	Q9P1F3	0.36214
54671	Q2Q067	P53803	0.43971
54672	Q2Q067	Q5TBE3	0.17069
54673	Q2Q067	Q9H8G1	0.24672
54674	Q2Q067	Q9H9A7	0.56702
54675	Q2Q067	P20810	0.10732
54676	Q2Q067	Q96SW2	0.5059
54677	Q2Q067	Q9H3F6	0.46195
54678	Q2Q067	Q96AN2	0.13154
54679	Q2Q067	Q8N4J0	0.41546
54680	Q2Q067	Q7Z745	0.24419
54681	Q2Q067	Q9H2F5	0.5648
54682	Q2Q067	Q15007	0.38473
54683	Q2Q067	P13994	0.37883
54684	Q2Q067	Q49AM1	0.37468
54685	Q2Q067	Q5T5N4	0.011803
54686	Q2Q067	Q9GZU8	0.20538
54687	Q2Q067	Q96MN9	0.57845
54688	Q2Q067	Q9BRQ3	0.37843
54689	Q2Q067	Q9BQ52	0.13114
54690	Q2Q067	Q99436	0.7081
54691	Q2Q067	Q15853	0.67957
54692	Q2Q067	Q9GZV4	0.6574
54693	Q2Q067	Q9BZF9	0.52962
54694	Q2Q067	P24941	0.60816
54695	Q2Q067	Q5T319	0.19215
54696	Q2Q067	Q8IWN6	0.17426
54697	Q2Q067	Q96MU7	0.69944
54698	Q2Q067	Q96NA2	0.54692
54699	Q2Q067	Q9NPA8	0.38862
54700	Q2Q067	Q96RN5	1.2481
54701	Q2Q067	Q8TAA3	0.33536
54702	Q2Q067	Q9BQA5	0.82823
54703	Q2Q067	Q8N7B7	0.047422
54704	Q2Q067	P13010	0.3567
54705	Q2Q067	Q8IY92	0.38211
54706	Q2Q067	Q9H875	0.23232
54707	Q2Q067	Q14241	0.24567
54708	Q2Q067	Q7L1V2	0.50098
54709	Q2Q067	Q9NUQ3	0.62219
54710	Q2Q067	Q9BZ01	0.10585
54711	Q2Q067	P78347	0.55159
54712	Q2Q067	Q9UKA2	0.40312
54713	Q2Q067	P49006	0.43756
54714	Q2Q067	P17025	0.097501
54715	Q2Q067	P30047	0.698
54716	Q2Q067	O43592	0.28929
54717	Q2Q067	Q6NSH3	0.28186
54718	Q2Q067	Q9H489	0.16209
54719	Q2Q067	Q9UKK3	0.6119
54720	Q2Q067	P49321	0.39458

54721	Q2Q067	P07320	0.43779
54722	Q2Q067	P84101	0.54319
54723	Q2Q067	P62266	0.98376
54724	Q2Q067	Q9BU64	0.16343
54725	Q2Q067	Q9BRT9	0.2581
54726	Q2Q067	Q96M91	0.49951
54727	Q2Q067	Q8N4C6	0.17376
54728	Q2Q067	P42677	0.88927
54729	Q2Q067	Q9Y3U8	0.87684
54730	Q2Q067	O60508	0.34093
54731	Q2Q067	Q6NUI1	0.40369
54732	Q2Q067	P0C5K6	0.19215
54733	Q2Q067	Q8IYJ2	0.34262
54734	Q2Q067	A6NK75	0.15308
54735	Q2Q067	Q9H0G5	0.59475
54736	Q2Q067	Q9UJX6	0.55799
54737	Q2Q067	Q8WUX9	0.47274
54738	Q2Q067	Q494X1	0.097326
54739	Q2Q067	P62306	0.36035
54740	Q2Q067	Q9NRD1	0.12874
54741	Q2Q067	Q5BJE1	0.091411
54742	Q2Q067	A1A4G5	0.19215
54743	Q2Q067	P35232	0.5356
54744	Q2Q067	P63220	0.60047
54745	Q2Q067	P43359	0.5323
54746	Q2Q067	Q9UBD0	1.1534
54747	Q2Q067	P49593	0.21652
54748	Q2Q067	Q9H840	0.91039
54749	Q2Q067	Q5T9C2	0.29573
54750	Q2Q067	Q538Z0	0.19215
54751	Q2Q067	P0C838	0.16605
54752	Q2Q067	Q15652	0.42512
54753	Q2Q067	P62841	0.76298
54754	Q2Q067	O60869	0.64648
54755	Q2Q067	Q3SY46	0.18753
54756	Q2Q067	Q8WYQ3	0.30457
54757	Q2Q067	P61962	0.64054
54758	Q2Q067	Q8IV03	0.54663
54759	Q2Q067	O60518	0.92214
54760	Q2Q067	Q9HBD4	0.63303
54761	Q2Q067	O14512	0.40695
54762	Q2Q067	Q8NE71	0.30646
54763	Q2Q067	Q8TDP1	0.26412
54764	Q2Q067	O95229	0.76205
54765	Q2Q067	Q9UBX3	0.3044
54766	Q2Q067	Q9NWW7	0.34234
54767	Q2Q067	Q9UNZ5	0.29573
54768	Q2Q067	Q96CN0	0.19215
54769	Q2Q067	Q8N587	0.19721
54770	Q2Q067	Q8WXS3	0.54261
54771	Q2Q067	Q9Y5B9	0.25371
54772	Q2Q067	Q17RB0	0.32676
54773	Q2Q067	Q8TC56	0.63352
54774	Q2Q067	Q8N7Q3	0.16587
54775	Q2Q067	Q9Y678	0.56898
54776	Q2Q067	Q7Z398	0.090424
54777	Q2Q067	P83881	0.79659
54778	Q2Q067	Q8N6I1	0.48818
54779	Q2Q067	P06132	0.28987
54780	Q2Q067	P62987	0.34173
54781	Q2Q067	Q9UHZ2	0.19215
54782	Q2Q067	Q9BYR3	0.34715
54783	Q2Q067	Q75QN2	0.57387
54784	Q2Q067	Q92466	0.62869
54785	Q2Q067	P13682	0.13461
54786	Q2Q067	Q8IYI8	0.15228
54787	Q2Q067	P26651	0.70354
54788	Q2Q067	Q86V71	0.17393
54789	Q2Q067	Q04743	0.29077
54790	Q2Q067	Q53T94	0.39009
54791	Q2Q067	O43242	0.24416
54792	Q2Q067	Q09666	0.6659
54793	Q2Q067	Q2VPJ9	0.29573
54794	Q2Q067	Q9H4A5	0.42637
54795	Q2Q067	P06730	0.59023
54796	Q2Q067	P61583	0.56753

54797	Q2Q067	P45973	0.72647
54798	Q2Q067	P07476	0.23421
54799	Q2Q067	Q8NCR3	0.05824
54800	Q2Q067	Q8TEK3	0.33646
54801	Q2Q067	P52744	0.12365
54802	Q2Q067	Q9BX66	0.34532
54803	Q2Q067	Q6ZRT6	0.29573
54804	Q2Q067	Q15121	0.41476
54805	Q2Q067	Q99689	0.084184
54806	Q2Q067	P55327	0.30757
54807	Q2Q067	P08670	0.15912
54808	Q2Q067	Q14188	0.75905
54809	Q2Q067	P60411	0.34715
54810	Q2Q067	A6NE82	0.083005
54811	Q2Q067	Q9UGR2	0.3848
54812	Q2Q067	Q02577	0.60493
54813	Q2Q067	Q9BWU0	0.50521
54814	Q2Q067	P58505	0.15831
54815	Q2Q067	Q9NVV2	0.19215
54816	Q2Q067	Q86Y01	0.5697
54817	Q2Q067	Q93075	0.36219
54818	Q2Q067	Q96MC9	0.57527
54819	Q2Q067	Q6PII3	0.18937
54820	Q2Q067	A6NN14	0.16589
54821	Q2Q067	Q8N9M1	0.020318
54822	Q2Q067	Q96JL9	0.093779
54823	Q2Q067	P55771	0.8544
54824	Q2Q067	P51116	0.54346
54825	Q2Q067	Q9UNQ2	0.23005
54826	Q2Q067	P28370	0.40773
54827	Q2Q067	Q96E16	0.42683
54828	Q2Q067	O14777	0.58838
54829	Q2Q067	Q9BYS1	0.18143
54830	Q2Q067	Q9UKG1	0.35594
54831	Q2Q067	Q9H8H0	0.15082
54832	Q2Q067	P50222	0.61971
54833	Q2Q067	Q16537	0.26328
54834	Q2Q067	Q86YV9	0.45174
54835	Q2Q067	Q9BYR7	0.612
54836	Q2Q067	Q9NVM9	1.0684
54837	Q2Q067	Q9H974	0.65431
54838	Q2Q067	Q16576	0.40926
54839	Q2Q067	Q676U5	0.5938
54840	Q2Q067	Q562F6	0.75083
54841	Q2Q067	P0CB33	0.21506
54842	Q2Q067	Q8IXR5	0.13528
54843	Q2Q067	Q5T4T6	0.63267
54844	Q2Q067	Q6ZNH5	0.11824
54845	Q2Q067	Q9H040	0.4778
54846	Q2Q067	Q9UHA2	0.14678
54847	Q2Q067	Q8WWR8	0.062727
54848	Q2Q067	Q96A44	0.4314
54849	Q2Q067	Q9BVN2	0.50579
54850	Q2Q067	K9M1U5	0.19215
54851	Q2Q067	Q8N7W2	0.30398
54852	Q2Q067	Q9NWS9	0.058453
54853	Q2Q067	Q8TDR0	0.44569
54854	Q2Q067	P60006	0.2755
54855	Q2Q067	Q3ZCX4	0.12173
54856	Q2Q067	Q8IV54	0.18774
54857	Q2Q067	Q9UJ94	0.19215
54858	Q2Q067	Q9BX82	0.22861
54859	Q2Q067	Q03060	0.94836
54860	Q2Q067	O75953	0.76677
54861	Q2Q067	Q8N7M0	0.068878
54862	Q2Q067	P59942	0.31749
54863	Q2Q067	Q9Y2W2	0.70292
54864	Q2Q067	P0DJG4	0.44149
54865	Q2Q067	Q5T870	0.33506
54866	Q2Q067	Q9UHR6	0.53273
54867	Q2Q067	Q7Z6J9	0.39165
54868	Q2Q067	Q9NTM9	0.1805
54869	Q2Q067	Q01850	0.85476
54870	Q2Q067	O43402	0.42689
54871	Q2Q067	Q8NC38	0.028349
54872	Q2Q067	Q9UGY1	0.1644

54873	Q2Q067	P49589	0.23058
54874	Q2Q067	Q8NA47	0.29573
54875	Q2Q067	Q9H7T9	0.66026
54876	Q2Q067	Q9UBL3	0.2639
54877	Q2Q067	Q6STE5	0.72873
54878	Q2Q067	O95453	0.4386
54879	Q2Q067	P30260	1.0912
54880	Q2Q067	Q14154	0.46376
54881	Q2Q067	Q6PI77	0.30886
54882	Q2Q067	Q9BZG8	0.17656
54883	Q2Q067	Q5T7W7	0.29573
54884	Q2Q067	Q9Y3B9	0.3108
54885	Q2Q067	Q8N128	0.19215
54886	Q2Q067	Q86XK2	0.68917
54887	Q2Q067	Q13404	1.1048
54888	Q2Q067	P49721	0.46321
54889	Q2Q067	O14558	0.75457
54890	Q2Q067	Q9HCM9	0.43663
54891	Q2Q067	P42226	0.81651
54892	Q2Q067	P49406	0.44787
54893	Q2Q067	P04259	0.16907
54894	Q2Q067	Q9P0T4	0.15194
54895	Q2Q067	Q9BSY4	0.22513
54896	Q2Q067	P80297	0.1848
54897	Q2Q067	B2CW77	0.19215
54898	Q2Q067	Q8IY57	1.0804
54899	Q2Q067	Q96PT4	0.20973
54900	Q2Q067	Q5VWG9	0.75763
54901	Q2Q067	A7E2U8	0.16298
54902	Q2Q067	Q5U5X8	0.44143
54903	Q2Q067	Q9BPU9	0.11821
54904	Q2Q067	Q5H9L2	1.0622
54905	Q2Q067	Q9UPT5	0.51375
54906	Q2Q067	Q8NC51	0.68607
54907	Q2Q067	Q5HY98	0.20168
54908	Q2Q067	Q04837	0.50628
54909	Q2Q067	Q86VS8	0.34707
54910	Q2Q067	Q5W5X9	0.1308
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54912	Q2Q067	Q6B0B8	0.20513
54913	Q2Q067	Q9BRQ4	0.18858
54914	Q2Q067	Q9BRJ6	0.28759
54915	Q2Q067	P13051	0.6816
54916	Q2Q067	O75792	0.62546
54917	Q2Q067	Q9Y2W1	0.49282
54918	Q2Q067	P11802	0.68089
54919	Q2Q067	Q8TBN0	0.23226
54920	Q2Q067	Q9UGB4	0.19215
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54922	Q2Q067	Q969E8	0.61461
54923	Q2Q067	A6NJ88	0.44763
54924	Q2Q067	Q9UIF8	0.83615
54925	Q2Q067	Q96LT6	0.062368
54926	Q2Q067	Q96IZ0	0.75083
54927	Q2Q067	Q9Y296	0.21109
54928	Q2Q067	Q9HAT8	0.58735
54929	Q2Q067	Q9UH90	0.26638
54930	Q2Q067	Q92597	0.51709
54931	Q2Q067	P0CG42	0.19215
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54934	Q2Q067	P23497	0.95366
54935	Q2Q067	O95707	0.62866
54936	Q2Q067	Q6ZVT6	0.29799
54937	Q2Q067	A6NLF2	0.24331
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54939	Q2Q067	A6NJ46	0.27517
54940	Q2Q067	P78371	0.54367
54941	Q2Q067	Q8NA19	0.32208
54942	Q2Q067	Q75VX8	0.48064
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54944	Q2Q067	Q8NEK5	0.10714
54945	Q2Q067	Q9Y421	0.28802
54946	Q2Q067	Q6TDU7	0.21694
54947	Q2Q067	Q9BYG4	0.64686
54948	Q2Q067	Q9HBX3	0.19215



54949	Q2Q067	Q9Y692	0.7094
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54952	Q2Q067	O60756	0.19215
54953	Q2Q067	Q71SY5	1.0545
54954	Q2Q067	Q6XYB7	0.32768
54955	Q2Q067	Q9BPX3	0.84697
54956	Q2Q067	P14672	0.64871
54957	Q2Q067	Q9Y535	0.24506
54958	Q2Q067	Q66K74	0.18112
54959	Q2Q067	Q6X4T0	0.045008
54960	Q2Q067	Q5UE93	0.48785
54961	Q2Q067	Q8NDZ0	0.066494
54962	Q2Q067	O15063	0.12426
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54967	Q2Q067	Q6ICG7	0.19215
54968	Q2Q067	Q9P015	0.29141
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54973	Q2Q067	O00463	0.28027
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54975	Q2Q067	P15923	0.60179
54976	Q2Q067	P10242	0.97441
54977	Q2Q067	Q8NB12	0.26907
54978	Q2Q067	Q6P9B6	0.28783
54979	Q2Q067	O43309	0.1126
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54982	Q2Q067	O60422	0.32817
54983	Q2Q067	P35637	0.36892
54984	Q2Q067	Q9NRR5	0.69817
54985	Q2Q067	O60810	0.34439
54986	Q2Q067	Q6ZN79	0.20479
54987	Q2Q067	Q99717	0.43825
54988	Q2Q067	P06733	0.90363
54989	Q2Q067	A7E2V4	0.7741
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54992	Q2Q067	Q9H299	0.04381
54993	Q2Q067	Q8TDN4	0.56222
54994	Q2Q067	Q9BXF6	0.54172
54995	Q2Q067	P15407	0.70602
54996	Q2Q067	Q9ULK2	0.41879
54997	Q2Q067	Q9Y675	0.35987
54998	Q2Q067	Q8NCD3	0.48788
54999	Q2Q067	Q9H7R5	0.17365
55000	Q2Q067	Q8IUC3	0.41492
55001	Q2Q067	Q9UBI1	0.28783
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55005	Q2Q067	Q12857	0.34044
55006	Q2Q067	A6NFQ2	0.21043
55007	Q2Q067	Q9UH77	0.56809
55008	Q2Q067	Q96DZ1	0.23454
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55013	Q2Q067	Q69YN4	0.14045
55014	Q2Q067	P21673	0.24866
55015	Q2Q067	O60870	0.36278
55016	Q2Q067	Q9BYU5	0.17348
55017	Q2Q067	Q9BTL3	0.5188
55018	Q2Q067	P02533	0.84232
55019	Q2Q067	Q8N972	0.16182
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55024	Q2Q067	P11172	0.19175

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55027	Q2Q067	Q13568	0.99226
55028	Q2Q067	Q8TAG6	0.28217
55029	Q2Q067	A6NI87	0.24415
55030	Q2Q067	Q0VD86	0.32989
55031	Q2Q067	Q3B7T1	0.39593
55032	Q2Q067	Q13490	0.4373
55033	Q2Q067	Q12816	0.25165
55034	Q2Q067	Q9H0M5	0.087195
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55037	Q2Q067	Q9BYQ4	0.34715
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55039	Q2Q067	Q9UMX0	0.74746
55040	Q2Q067	Q8N3U4	0.64546
55041	Q2Q067	Q6W349	0.27117
55042	Q2Q067	Q96BN2	0.55997
55043	Q2Q067	P51808	0.24236
55044	Q2Q067	Q6PJG6	0.5463
55045	Q2Q067	A6NFY7	0.29289
55046	Q2Q067	Q7L190	0.75962
55047	Q2Q067	Q5W0V3	0.39515
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55049	Q2Q067	C9JLW8	0.39201
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55051	Q2Q067	P46776	1.0382
55052	Q2Q067	Q9BWH6	0.35453
55053	Q2Q067	Q6TFL3	0.06639
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55055	Q2Q067	Q9Y281	0.46094
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55058	Q2Q067	Q2NL68	0.29573
55059	Q2Q067	Q9NVV4	0.45273
55060	Q2Q067	Q8NDN9	0.57472
55061	Q2Q067	Q6IPX3	0.48462
55062	Q2Q067	Q8WVK2	0.34939
55063	Q2Q067	Q75MW2	0.40129
55064	Q2Q067	P50452	0.63006
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55067	Q2Q067	P18583	0.32302
55068	Q2Q067	P0CL80	0.019044
55069	Q2Q067	Q9ULC4	0.34109
55070	Q2Q067	Q7Z417	0.75561
55071	Q2Q067	Q6R327	0.10297
55072	Q2Q067	A0JNW5	0.27888
55073	Q2Q067	Q86WH2	0.095084
55074	Q2Q067	Q96M29	0.27079
55075	Q2Q067	O75376	0.41585
55076	Q2Q067	Q6ZN08	0.20699
55077	Q2Q067	Q13042	1.2279
55078	Q2Q067	Q9HA58	0.19215
55079	Q2Q067	P35900	0.80198
55080	Q2Q067	Q96KT6	0.19215
55081	Q2Q067	P57086	0.52078
55082	Q2Q067	Q5JRK9	0.56155
55083	Q2Q067	Q8NHY6	0.17262
55084	Q2Q067	Q96EF6	0.28838
55085	Q2Q067	Q9NNX9	0.50252
55086	Q2Q067	P31689	0.21633
55087	Q2Q067	Q9H7H0	0.63713
55088	Q2Q067	Q9UK39	0.47893
55089	Q2Q067	Q6ZTN6	0.25703
55090	Q2Q067	Q8TBZ8	0.11921
55091	Q2Q067	Q16384	0.26023
55092	Q2Q067	P27815	0.27142
55093	Q2Q067	P61586	0.086378
55094	Q2Q067	Q86VN1	0.4456
55095	Q2Q067	Q8ND04	0.60077
55096	Q2Q067	Q96CM3	0.35441
55097	Q2Q067	Q9UIE0	0.10351
55098	Q2Q067	Q5HYC2	0.013015
55099	Q2Q067	Q92556	0.21248
55100	Q2Q067	Q86WV5	0.28751

55101	Q2Q067	Q16637	0.91809
55102	Q2Q067	Q9Y468	0.89613
55103	Q2Q067	Q92917	0.79042
55104	Q2Q067	Q96PG8	0.19215
55105	Q2Q067	Q15651	0.59073
55106	Q2Q067	Q3LHN1	0.19215
55107	Q2Q067	Q9Y222	0.95215
55108	Q2Q067	Q96DV4	0.18823
55109	Q2Q067	Q8IXJ9	0.72893
55110	Q2Q067	Q68DY9	0.11859
55111	Q2Q067	P11940	0.41331
55112	Q2Q067	Q5T5S1	0.26593
55113	Q2Q067	Q5VIY5	0.22332
55114	Q2Q067	P0CG24	0.096646
55115	Q2Q067	Q14331	0.21951
55116	Q2Q067	O75290	0.21203
55117	Q2Q067	Q96AJ1	0.66981
55118	Q2Q067	Q3T8J9	0.66073
55119	Q2Q067	Q5VT40	0.14645
55120	Q2Q067	H0Y354	0.2014
55121	Q2Q067	Q9H5I1	0.52917
55122	Q2Q067	Q15691	0.59811
55123	Q2Q067	Q9UMX1	0.38377
55124	Q2Q067	P22681	0.32162
55125	Q2Q067	Q9H081	0.69508
55126	Q2Q067	O60888	0.32529
55127	Q2Q067	Q96N11	0.080189
55128	Q2Q067	O95905	0.76119
55129	Q2Q067	Q8WXF1	0.91836
55130	Q2Q067	Q9NP77	0.17929
55131	Q2Q067	Q99814	0.39116
55132	Q2Q067	P82909	0.29299
55133	Q2Q067	Q8WVK7	0.5628
55134	Q2Q067	Q6P1K8	0.37742
55135	Q2Q067	Q9H7E2	0.40074
55136	Q2Q067	Q8WXB4	0.29295
55137	Q2Q067	P60510	0.79182
55138	Q2Q067	Q8IYL3	0.4501
55139	Q2Q067	Q14689	0.2891
55140	Q2Q067	Q5XG85	0.19215
55141	Q2Q067	P49711	0.23837
55142	Q2Q067	P40425	0.68399
55143	Q2Q067	H3BN30	0.19215
55144	Q2Q067	A2A288	0.27756
55145	Q2Q067	P26371	0.19215
55146	Q2Q067	Q9NT62	0.4061
55147	Q2Q067	Q9GZQ3	0.58655
55148	Q2Q067	Q8N5A5	0.82604
55149	Q2Q067	Q9H3M7	0.793
55150	Q2Q067	Q15111	0.58744
55151	Q2Q067	Q93062	0.75782
55152	Q2Q067	Q969E4	0.39593
55153	Q2Q067	P35658	1.0644
55154	Q2Q067	P63162	0.62351
55155	Q2Q067	Q9Y250	0.95669
55156	Q2Q067	O75368	0.091338
55157	Q2Q067	Q16649	0.19221
55158	Q2Q067	Q86UD1	0.08103
55159	Q2Q067	P83916	0.65607
55160	Q2Q067	Q6ZQY7	0.21688
55161	Q2Q067	P05423	0.045505
55162	Q2Q067	Q6NXR4	0.071917
55163	Q2Q067	Q5T7N7	0.19215
55164	Q2Q067	Q9NVV9	1.0089
55165	Q2Q067	Q53ET0	0.95107
55166	Q2Q067	Q8TAP9	1.3725
55167	Q2Q067	Q8IW35	1.1355
55168	Q2Q067	Q9P0V3	0.5366
55169	Q2Q067	P62854	0.89742
55170	Q2Q067	Q16352	0.15904
55171	Q2Q067	P17480	1.0261
55172	Q2Q067	Q96KF2	0.19215
55173	Q2Q067	Q9BQ66	0.34715
55174	Q2Q067	Q92841	0.56233
55175	Q2Q067	Q9BRJ7	0.33213
55176	Q2Q067	Q9HAW4	0.41415

55177	Q2Q067	Q9NZM4	0.68842
55178	Q2Q067	O76011	0.20138
55179	Q2Q067	P23297	0.50745
55180	Q2Q067	Q96ED9	0.40636
55181	Q2Q067	Q5T1J5	0.46303
55182	Q2Q067	O43324	1.1875
55183	Q2Q067	Q9Y2Z0	0.40817
55184	Q2Q067	P62308	0.76738
55185	Q2Q067	Q00987	0.24833
55186	Q2Q067	P05783	1.3037
55187	Q2Q067	Q9HC16	0.082948
55188	Q2Q067	P59037	0.47948
55189	Q2Q067	P49247	0.32814
55190	Q2Q067	Q96A26	0.060523
55191	Q2Q067	Q9UMS4	0.58015
55192	Q2Q067	Q8TCZ7	0.3653
55193	Q2Q067	Q9P2J5	0.2541
55194	Q2Q067	Q0VG99	0.25704
55195	Q2Q067	Q9BWM5	0.10781
55196	Q2Q067	Q7Z4H9	0.22946
55197	Q2Q067	Q9BS18	0.36764
55198	Q2Q067	B3EWG3	0.29573
55199	Q2Q067	Q8TF32	0.2627
55200	Q2Q067	Q96GM8	0.16332
55201	Q2Q067	P09001	0.27695
55202	Q2Q067	Q13867	0.31023
55203	Q2Q067	P62753	1.0004
55204	Q2Q067	Q86VP3	0.1701
55205	Q2Q067	Q9BTE3	0.64252
55206	Q2Q067	Q16600	0.11257
55207	Q2Q067	Q2M3X9	0.10324
55208	Q2Q067	Q14602	0.25221
55209	Q2Q067	P08397	0.082511
55210	Q2Q067	Q9NTK5	0.36121
55211	Q2Q067	O14595	0.18238
55212	Q2Q067	P52737	0.58783
55213	Q2Q067	O14893	0.68045
55214	Q2Q067	O15083	0.48996
55215	Q2Q067	Q6ZRP5	0.19215
55216	Q2Q067	Q6PI98	0.56735
55217	Q2Q067	Q9NR46	0.36835
55218	Q2Q067	Q6ZV50	0.30214
55219	Q2Q067	Q96JK9	0.94709
55220	Q2Q067	Q6P1L5	0.66876
55221	Q2Q067	Q7Z794	0.25607
55222	Q2Q067	Q9HCI5	0.58736
55223	Q2Q067	Q9BX26	0.70346
55224	Q2Q067	Q14781	0.76031
55225	Q2Q067	Q9UQR1	0.81979
55226	Q2Q067	P61578	0.36503
55227	Q2Q067	Q9NY74	0.51037
55228	Q2Q067	Q9NXX6	0.36585
55229	Q2Q067	Q8N668	0.76974
55230	Q2Q067	A6NEQ2	0.19215
55231	Q2Q067	Q3LI66	0.19215
55232	Q2Q067	Q96HI0	0.45788
55233	Q2Q067	Q96QD9	0.74944
55234	Q2Q067	Q6ZVC0	0.41813
55235	Q2Q067	Q8TAF7	0.22688
55236	Q2Q067	A6NI79	0.44645
55237	Q2Q067	P05388	1.3866
55238	Q2Q067	Q5XKE5	0.16378
55239	Q2Q067	Q8N7K0	0.16182
55240	Q2Q067	Q86UT8	0.63552
55241	Q2Q067	Q13023	0.57576
55242	Q2Q067	Q9H9F9	1.1446
55243	Q2Q067	Q8IUUF8	0.41474
55244	Q2Q067	Q8NEZ5	0.76375
55245	Q2Q067	Q13542	0.22574
55246	Q2Q067	P49754	0.42108
55247	Q2Q067	Q14207	0.93013
55248	Q2Q067	O14802	0.059031
55249	Q2Q067	Q9H3H3	0.17807
55250	Q2Q067	Q9H7D7	0.32989
55251	Q2Q067	Q86YD1	0.43789
55252	Q2Q067	Q8NFH5	0.58316

55253	Q2Q067	Q15776	0.42224
55254	Q2Q067	Q6NSW5	0.59569
55255	Q2Q067	Q6MZT1	0.37048
55256	Q2Q067	Q66K89	0.80655
55257	Q2Q067	Q8IYD8	0.2662
55258	Q2Q067	Q9P031	1.0622
55259	Q2Q067	P0C7V0	0.19215
55260	Q2Q067	Q15154	0.5453
55261	Q2Q067	Q6Q759	0.3409
55262	Q2Q067	Q08AG5	0.28629
55263	Q2Q067	Q14129	0.21494
55264	Q2Q067	Q53QV2	0.34416
55265	Q2Q067	P52294	1.1063
55266	Q2Q067	Q7LBC6	0.13449
55267	Q2Q067	Q99459	1.1226
55268	Q2Q067	Q6PCE3	0.21723
55269	Q2Q067	Q96IT6	0.19215
55270	Q2Q067	Q8N983	0.28685
55271	Q2Q067	P35711	0.99574
55272	Q2Q067	Q9UBY9	0.97029
55273	Q2Q067	O14599	0.42055
55274	Q2Q067	Q12874	0.44296
55275	Q2Q067	Q9NQR7	0.19215
55276	Q2Q067	Q9NTI7	0.27612
55277	Q2Q067	P42224	0.25809
55278	Q2Q067	O60671	0.50231
55279	Q2Q067	P0C879	0.19215
55280	Q2Q067	Q5VT28	0.19025
55281	Q2Q067	Q15436	0.67823
55282	Q2Q067	Q96LP2	0.0063133
55283	Q2Q067	Q6ZQT7	0.19215
55284	Q2Q067	Q9H9E3	0.40446
55285	Q2Q067	O95190	0.3724
55286	Q2Q067	Q5RHP9	0.15076
55287	Q2Q067	Q96IU4	0.34381
55288	Q2Q067	O75132	0.1794
55289	Q2Q067	A6NKF2	0.62076
55290	Q2Q067	Q86W11	0.080718
55291	Q2Q067	E7EW31	0.19215
55292	Q2Q067	P60842	0.096503
55293	Q2Q067	Q8WYA6	0.72943
55294	Q2Q067	O15360	0.77154
55295	Q2Q067	P49918	0.65241
55296	Q2Q067	P0C7I6	0.41634
55297	Q2Q067	P51522	0.10512
55298	Q2Q067	Q96FF9	0.7783
55299	Q2Q067	Q6L8H2	0.19215
55300	Q2Q067	P07197	0.72757
55301	Q2Q067	Q9NXR7	0.35979
55302	Q2Q067	P22736	0.28716
55303	Q2Q067	P32929	0.28033
55304	Q2Q067	Q9BUA3	0.22848
55305	Q2Q067	Q9NPA3	0.679
55306	Q2Q067	Q96EY1	0.45981
55307	Q2Q067	Q96K31	0.22027
55308	Q2Q067	Q16836	0.54671
55309	Q2Q067	Q5M9Q1	0.56383
55310	Q2Q067	Q6ZN17	1.1649
55311	Q2Q067	A6NEJ1	0.12144
55312	Q2Q067	Q9NRR3	0.44144
55313	Q2Q067	Q86X55	0.75837
55314	Q2Q067	O94763	0.76772
55315	Q2Q067	Q7Z7L8	0.5317
55316	Q2Q067	O14598	0.43298
55317	Q2Q067	Q8NFG4	0.66644
55318	Q2Q067	Q8TC71	0.34074
55319	Q2Q067	O00479	0.40838
55320	Q2Q067	O75674	0.31065
55321	Q2Q067	Q71F78	0.21703
55322	Q2Q067	Q9UN30	0.29394
55323	Q2Q067	O15205	0.49835
55324	Q2Q067	O15037	0.25087
55325	Q2Q067	Q96N23	0.28161
55326	Q2Q067	Q13227	0.66652
55327	Q2Q067	O15392	0.25893
55328	Q2Q067	P63208	0.61478

55329	Q2Q067	Q96BN6	0.07306
55330	Q2Q067	Q7RTU3	0.331
55331	Q2Q067	P18124	0.64646
55332	Q2Q067	P62851	0.84318
55333	Q2Q067	Q96PM9	0.29295
55334	Q2Q067	Q96BR6	0.19239
55335	Q2Q067	Q6L9T8	0.2014
55336	Q2Q067	Q9Y255	0.02603
55337	Q2Q067	Q9BTM9	0.60343
55338	Q2Q067	Q8IYN2	0.68354
55339	Q2Q067	Q01534	0.17836
55340	Q2Q067	Q00839	0.32314
55341	Q2Q067	Q9Y2V0	0.012657
55342	Q2Q067	Q96IR2	0.17365
55343	Q2Q067	Q6RFH8	0.84719
55344	Q2Q067	Q06587	0.75155
55345	Q2Q067	Q13617	0.6907
55346	Q2Q067	Q9UI36	0.38708
55347	Q2Q067	Q9ULM6	1.0399
55348	Q2Q067	P25398	0.70288
55349	Q2Q067	Q9Y6Y1	0.4808
55350	Q2Q067	P55209	0.71127
55351	Q2Q067	Q32NC0	0.078975
55352	Q2Q067	Q969W8	0.19891
55353	Q2Q067	Q96RL1	0.72257
55354	Q2Q067	P07864	0.23751
55355	Q2Q067	Q14442	0.085141
55356	Q2Q067	Q6ZNA1	0.1529
55357	Q2Q067	A7MD48	0.25021
55358	Q2Q067	Q15056	0.30053
55359	Q2Q067	A6NKH3	0.22158
55360	Q2Q067	Q9H0I3	0.40058
55361	Q2Q067	Q15361	0.75669
55362	Q2Q067	P43355	1.0298
55363	Q2Q067	Q9HCM7	0.46067
55364	Q2Q067	Q96QE5	0.85675
55365	Q2Q067	Q8IWE2	0.36405
55366	Q2Q067	Q9HCS7	0.42486
55367	Q2Q067	O95201	0.58991
55368	Q2Q067	Q96EA4	0.70461
55369	Q2Q067	Q1RMZ1	0.26132
55370	Q2Q067	O43345	0.15472
55371	Q2Q067	Q15759	0.25547
55372	Q2Q067	Q96JJ3	0.1634
55373	Q2Q067	Q9NYV6	0.52468
55374	Q2Q067	Q9NQ92	0.90299
55375	Q2Q067	O95153	0.59445
55376	Q2Q067	Q3KP22	0.035759
55377	Q2Q067	Q8TDD2	0.26613
55378	Q2Q067	Q701N4	0.19215
55379	Q2Q067	Q96GV9	0.34825
55380	Q2Q067	Q16829	0.27641
55381	Q2Q067	Q9UKT5	0.39402
55382	Q2Q067	P62937	0.71116
55383	Q2Q067	Q9BTA9	0.9345
55384	Q2Q067	Q15797	0.2318
55385	Q2Q067	Q9H1D9	0.52885
55386	Q2Q067	Q5FWF6	0.22668
55387	Q2Q067	Q9Y608	0.28344
55388	Q2Q067	A6NNV3	0.23617
55389	Q2Q067	P78537	0.71698
55390	Q2Q067	Q16526	0.36035
55391	Q2Q067	Q9Y4Z0	0.74207
55392	Q2Q067	Q68CZ6	0.45285
55393	Q2Q067	O60936	0.78617
55394	Q2Q067	Q8N393	0.10262
55395	Q2Q067	Q5TG53	0.19215
55396	Q2Q067	Q9H633	0.21528
55397	Q2Q067	Q9BUV0	0.29573
55398	Q2Q067	P23409	0.082963
55399	Q2Q067	P62877	0.57674
55400	Q2Q067	Q9H1Y0	0.3353
55401	Q2Q067	A8MTZ0	0.1618
55402	Q2Q067	O43660	0.26829
55403	Q2Q067	Q8TAL5	0.021499
55404	Q2Q067	Q9BXY0	0.15082

55405	Q2Q067	Q9P0W2	0.68024
55406	Q2Q067	O75969	0.19461
55407	Q2Q067	P23508	0.30324
55408	Q2Q067	F8WFD2	0.18974
55409	Q2Q067	Q14194	0.37021
55410	Q2Q067	Q8N163	0.70197
55411	Q2Q067	P07199	0.36696
55412	Q2Q067	O75157	0.19596
55413	Q2Q067	Q96HY6	0.28028
55414	Q2Q067	Q6UXR8	0.19215
55415	Q2Q067	Q8WTZ3	0.2176
55416	Q2Q067	Q9NQ50	0.37344
55417	Q2Q067	Q8NAP3	0.32935
55418	Q2Q067	Q9BZA5	0.44921
55419	Q2Q067	Q6P1M9	0.14781
55420	Q2Q067	P61960	0.12104
55421	Q2Q067	Q96ND8	0.25317
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55423	Q2Q067	P62910	0.68644
55424	Q2Q067	Q86V20	0.35815
55425	Q2Q067	Q12830	0.93115
55426	Q2Q067	Q3MIS6	0.23615
55427	Q2Q067	O43708	0.42655
55428	Q2Q067	Q5T0J7	0.15651
55429	Q2Q067	H3BQW9	0.20873
55430	Q2Q067	Q9UL36	0.092391
55431	Q2Q067	Q9BT81	0.37886
55432	Q2Q067	Q9H1E3	0.5166
55433	Q2Q067	Q53FN2	0.081486
55434	Q2Q067	Q06547	1.0749
55435	Q2Q067	P02795	0.56547
55436	Q2Q067	Q8TAQ5	0.16182
55437	Q2Q067	Q13501	0.42554
55438	Q2Q067	Q969T9	0.56472
55439	Q2Q067	Q8NEZ2	0.69312
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55441	Q2Q067	Q96CG3	0.29472
55442	Q2Q067	Q5XUX1	0.28783
55443	Q2Q067	Q92901	0.65612
55444	Q2Q067	Q6ZU35	0.29573
55445	Q2Q067	A4D0Y5	0.19215
55446	Q2Q067	Q13105	0.46045
55447	Q2Q067	Q9Y2S0	0.088781
55448	Q2Q067	O15446	0.15775
55449	Q2Q067	Q9NV72	0.22615
55450	Q2Q067	Q6ZNG1	0.17365
55451	Q2Q067	Q9Y651	0.30116
55452	Q2Q067	Q86TU7	0.22227
55453	Q2Q067	Q9Y3A3	0.44873
55454	Q2Q067	Q9BT92	0.53675
55455	Q2Q067	P68104	0.72576
55456	Q2Q067	Q9BYR2	0.34715
55457	Q2Q067	Q8IYN0	0.14642
55458	Q2Q067	P46781	1.0735
55459	Q2Q067	P54821	0.23179
55460	Q2Q067	Q2TAZ0	0.28783
55461	Q2Q067	Q53HV7	0.62087
55462	Q2Q067	Q9NZ52	0.42151
55463	Q2Q067	Q9H0N5	0.50243
55464	Q2Q067	Q9NYP3	0.26737
55465	Q2Q067	P48200	0.45288
55466	Q2Q067	Q96JC4	0.13985
55467	Q2Q067	Q49AR2	0.10332
55468	Q2Q067	P82673	0.03469
55469	Q2Q067	P09234	0.54036
55470	Q2Q067	Q9H814	0.40666
55471	Q2Q067	O15015	0.58991
55472	Q2Q067	Q02078	0.4685
55473	Q2Q067	Q9NZD4	0.27078
55474	Q2Q067	Q8IYI6	0.38485
55475	Q2Q067	Q8IUB9	0.19215
55476	Q2Q067	Q9GZU7	0.50024
55477	Q2Q067	Q9BYC9	0.71324
55478	Q2Q067	Q9UPG8	0.26702
55479	Q2Q067	Q96LM1	0.29717
55480	Q2Q067	Q96DN6	0.36406

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55483	Q2Q067	P43360	0.37541
55484	Q2Q067	Q14695	0.33095
55485	Q2Q067	Q9UJW9	1.006
55486	Q2Q067	Q9BXP5	1.0962
55487	Q2Q067	Q7Z699	0.24346
55488	Q2Q067	Q5W0A0	0.069344
55489	Q2Q067	Q5T0F9	0.37026
55490	Q2Q067	A8MU76	0.36785
55491	Q2Q067	A6NJ08	0.023567
55492	Q2Q067	Q96LI6	0.49272
55493	Q2Q067	Q96LS8	0.12149
55494	Q2Q067	O14576	0.3666
55495	Q2Q067	P14868	0.36433
55496	Q2Q067	P62310	0.73525
55497	Q2Q067	O00422	1.1916
55498	Q2Q067	P27635	0.6597
55499	Q2Q067	Q06546	1.2638
55500	Q2Q067	Q9Y2A4	0.24211
55501	Q2Q067	Q6TGC4	0.1952
55502	Q2Q067	O14879	0.67845
55503	Q2Q067	Q07352	0.94002
55504	Q2Q067	O75821	0.53888
55505	Q2Q067	Q6P0N0	0.49413
55506	Q2Q067	Q92665	0.75625
55507	Q2Q067	P21506	0.12798
55508	Q2Q067	Q9BRK4	0.52591
55509	Q2Q067	Q96FF7	0.19215
55510	Q2Q067	P40424	0.66752
55511	Q2Q067	Q14584	0.099703
55512	Q2Q067	Q13888	0.53202
55513	Q2Q067	Q9Y6R6	0.16182
55514	Q2Q067	Q6ZV56	0.19215
55515	Q2Q067	Q5MJ10	0.40408
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55517	Q2Q067	Q96B26	0.72226
55518	Q2Q067	Q9BUR4	0.78256
55519	Q2Q067	Q9H0E9	0.27776
55520	Q2Q067	Q8NG50	0.033243
55521	Q2Q067	P31269	0.62409
55522	Q2Q067	Q5SRE5	0.60242
55523	Q2Q067	Q86XU0	0.11633
55524	Q2Q067	Q9BYT5	0.026204
55525	Q2Q067	P53567	0.71039
55526	Q2Q067	Q16548	0.49625
55527	Q2Q067	Q9BSH3	0.082154
55528	Q2Q067	Q96IU2	0.6958
55529	Q2Q067	Q8N443	0.15958
55530	Q2Q067	Q2M238	0.026067
55531	Q2Q067	P17014	0.088992
55532	Q2Q067	Q6PI97	0.019436
55533	Q2Q067	Q8N4M7	0.55862
55534	Q2Q067	P49715	0.26309
55535	Q2Q067	Q969L4	0.67441
55536	Q2Q067	Q8N6U2	0.16254
55537	Q2Q067	Q8IYK2	0.30879
55538	Q2Q067	Q15276	0.11491
55539	Q2Q067	P42772	0.82255
55540	Q2Q067	Q8N365	0.29573
55541	Q2Q067	Q8N108	1.1031
55542	Q2Q067	Q15750	0.53869
55543	Q2Q067	P43364	0.81743
55544	Q2Q067	Q5QJE6	0.58597
55545	Q2Q067	Q8WWR9	0.13202
55546	Q2Q067	Q9Y224	1.4946
55547	Q2Q067	Q8IUD6	0.33425
55548	Q2Q067	Q6A163	0.1595
55549	Q2Q067	Q95900	0.37176
55550	Q2Q067	Q6ZMS7	0.13488
55551	Q2Q067	Q9NZY2	0.19215
55552	Q2Q067	Q9NPC6	0.45775
55553	Q2Q067	Q8NFB8	0.36855
55554	Q2Q067	P17023	0.07693
55555	Q2Q067	Q9Y242	0.24
55556	Q2Q067	Q537H7	0.021168



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55558	Q2Q067	O15160	0.098048
55559	Q2Q067	Q9Y3X0	0.25461
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55561	Q2Q067	Q13347	0.69547
55562	Q2Q067	Q8NDP4	0.12171
55563	Q2Q067	Q6ZN01	0.54853
55564	Q2Q067	Q9H2G4	0.64407
55565	Q2Q067	Q9UPZ3	0.29328
55566	Q2Q067	Q96EB1	1.1189
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55568	Q2Q067	O60921	0.76636
55569	Q2Q067	P18146	0.71039
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55574	Q2Q067	P28715	0.26787
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55582	Q2Q067	Q9ULD2	0.28553
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55593	Q2Q067	Q96T21	0.33324
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55596	Q2Q067	Q9BXW9	0.75446
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55601	Q2Q067	Q8IYS8	0.203
55602	Q2Q067	P31260	0.31482
55603	Q2Q067	Q8N9B5	0.74328
55604	Q2Q067	O76075	0.088878
55605	Q2Q067	Q96QA6	0.15082
55606	Q2Q067	Q5T7N2	0.051652
55607	Q2Q067	P32519	1.351
55608	Q2Q067	O60477	0.46956
55609	Q2Q067	P51946	0.58237
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55611	Q2Q067	Q8WX92	1.4633
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55615	Q2Q067	Q9UKL3	0.83173
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55617	Q2Q067	Q00403	1.0773
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55621	Q2Q067	Q8WTS6	0.41774
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55629	Q2Q067	Q96CW5	0.854
55630	Q2Q067	Q9Y5P3	0.34734
55631	Q2Q067	Q5BKY9	0.29573
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55648	Q2Q067	Q6NV74	0.29573
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55662	Q2Q067	Q9NX20	0.39144
55663	Q2Q067	Q5TBB1	0.46264
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55669	Q2Q067	Q2NKX9	0.29573
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55695	Q2Q067	Q3C1V8	0.65617
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55718	Q85601	P13646	0.60904
55719	Q85601	Q5SVZ6	0.58384
55720	Q85601	Q5TA45	0.27948
55721	Q85601	Q3YBR2	0.50265
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56861	Q85601	O43248	0.3357
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56864	Q85601	Q96BT3	0.58839
56865	Q85601	Q53G26	0.6202
56866	Q85601	P19013	0.53559
56867	Q85601	Q9UP83	1.3101
56868	Q85601	Q8N5F7	1.3374
56869	Q85601	Q8N8R7	0.53217
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56871	Q85601	Q9BS18	0.47296
56872	Q85601	Q7Z7C8	0.515
56873	Q85601	P62072	0.2988
56874	Q85601	Q14587	0.23373
56875	Q85601	Q03933	0.72386
56876	Q85601	Q9HAF1	1.0938
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56878	Q85601	Q5H9M0	0.77709
56879	Q85601	A2RRD8	0.35853
56880	Q85601	Q16719	0.35607
56881	Q85601	Q8NDY6	0.50494
56882	Q85601	Q9H0E3	0.59933
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56908	Q85601	Q5VVM6	0.11502
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57754	Q85601	Q6PIJ6	0.34036
57755	Q85601	P0CG34	0.34646
57756	Q85601	Q16594	0.59884
57757	Q85601	P02795	0.67625
57758	Q85601	P12270	0.66547
57759	Q85601	Q86VD1	0.47469
57760	Q85601	Q9H6Y2	0.45754

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57768	Q85601	Q9HAH1	0.41282
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57770	Q85601	Q9ULE0	0.025837
57771	Q85601	Q8WZ33	0.9452
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58193	Q85601	Q8NHW3	0.30267
58194	Q85601	Q63HM1	0.31838
58195	Q85601	Q8TCI5	0.64143
58196	Q85601	P52746	0.15724
58197	Q85601	P41212	0.79031
58198	Q85601	Q9UQB3	0.56667
58199	Q85601	Q9GZY1	0.57995
58200	Q85601	O15060	0.10687
58201	Q85601	O95397	0.78981
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58203	Q85601	Q15397	0.10584
58204	Q85601	Q9BXF9	0.17482
58205	Q85601	P41250	0.26219
58206	Q85601	Q13405	0.60679
58207	Q85601	Q8N7W2	0.30709
58208	Q85601	O43516	0.26053
58209	Q85601	Q14526	0.61919
58210	Q85601	Q5HYW3	0.47423
58211	Q85601	P0C7T5	0.31707
58212	Q85601	Q7Z794	0.60912
58213	Q85601	Q9NS73	0.7671
58214	Q85601	Q5U623	0.86074
58215	Q85601	Q13137	1.153
58216	Q85601	Q8IYS8	0.16318

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58218	Q85601	Q6IQ32	0.46356
58219	Q85601	Q8N0Z6	0.40068
58220	Q85601	Q96MR7	1.398
58221	Q85601	O60716	0.50682
58222	Q85601	Q96FV9	0.7404
58223	Q85601	Q96GM5	0.70305
58224	Q85601	O75820	0.25157
58225	Q85601	P22415	0.48296
58226	Q85601	O00233	0.49743
58227	Q85601	Q9P267	0.30676
58228	Q85601	Q9NRR3	0.57279
58229	Q85601	O96000	0.38937
58230	Q85601	P56277	0.20355
58231	Q85601	P62487	0.34189
58232	Q85601	O75122	0.34746
58233	Q85601	Q16222	0.26636
58234	Q85601	Q9UNH5	0.72671
58235	Q85601	Q8N6H7	0.095847
58236	Q85601	P51398	1.174
58237	Q85601	Q9H0B3	0.35296
58238	Q85601	O60294	0.31922
58239	Q85601	Q8NEA6	0.27834
58240	Q85601	Q86WQ0	0.49427
58241	Q85601	Q13515	0.52501
58242	Q85601	Q3ZCX4	0.31466
58243	Q85601	A8MSI8	1.0161
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58245	Q85601	Q9Y675	0.11206
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58247	Q85601	Q9Y6R6	0.35685
58248	Q85601	Q5VZQ5	0.16431
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58252	Q85601	P0CJ79	0.34347
58253	Q85601	O96020	0.96446
58254	Q85601	Q9BVC4	0.41749
58255	Q85601	A6NFY7	0.12949
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58258	Q85601	Q14CN4	0.38819
58259	Q85601	P30305	0.44078
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58274	Q85601	Q9BY77	0.34382
58275	Q85601	Q9H4I2	0.80688
58276	Q85601	Q9Y266	0.81943
58277	Q85601	B5ME19	0.10003
58278	Q85601	Q9H0G5	0.47357
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58286	Q85601	Q9NP66	1.0098
58287	Q85601	Q5T160	0.58369
58288	Q85601	Q8TC21	0.3052
58289	Q85601	Q9BVC3	0.57287
58290	Q85601	Q9UPV0	1.674
58291	Q85601	P29084	1.2529
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58309	Q85601	P23409	0.061646
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58319	Q85601	O43681	0.076137
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58321	Q85601	Q8NHZ7	0.35546
58322	Q85601	Q6MZT1	0.16673
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58329	Q85601	O60296	0.55208
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58334	Q85601	Q5T215	0.25485
58335	Q85601	Q53T94	0.43283
58336	Q85601	Q7Z6J0	0.37823
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58339	Q85601	Q9Y5Q8	0.68797
58340	Q85601	Q86XR8	1.0712
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58342	Q85601	Q9Y6B2	1.0017
58343	Q85601	Q8WYN3	0.54068
58344	Q85601	Q92830	0.7091
58345	Q85601	Q9H2C0	0.62105
58346	Q85601	Q9BYQ0	0.17342
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58376	Q85601	Q9BQ70	1.3752
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58381	Q85601	Q6ZN08	0.47241
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61322	Q85601	Q8TBZ0	0.42109
61323	Q85601	Q9UH90	0.47944
61324	Q85601	P25963	0.65776
61325	Q85601	P63313	0.34646
61326	Q85601	Q9Y314	1.0165
61327	Q85601	Q13617	0.63773
61328	Q85601	P43357	0.30691
61329	Q85601	Q15819	0.60636
61330	Q85601	Q93073	0.50624
61331	Q85601	P17041	0.20836
61332	Q85601	Q9Y4Y9	0.65294

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61334	Q85601	Q9H2U1	0.30851
61335	Q85601	A5D8V6	0.33266
61336	Q85601	Q69YI7	0.92402
61337	Q85601	P05813	0.11642
61338	Q85601	P10589	0.337
61339	Q85601	Q3KRA6	0.53899
61340	Q85601	Q8IUR0	0.78953
61341	P03346	O95166	0.35361
61342	P03346	Q96HJ3	0.0077221
61343	P03346	O43402	0.58768
61344	P03346	Q3LI63	0.36736
61345	P03346	O75390	0.2886
61346	P03346	Q5T751	0.02884
61347	P03346	Q13439	0.91311
61348	P03346	Q86VQ1	0.20041
61349	P03346	Q15172	0.49945
61350	P03346	Q8TEM1	0.3066
61351	P03346	Q13425	0.67643
61352	P03346	Q08J23	0.77685
61353	P03346	Q6PCB5	0.32217
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61355	P03346	P08107	0.62758
61356	P03346	Q86UQ0	0.27382
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61361	P03346	Q9UPR3	1.1579
61362	P03346	Q6PRD7	0.20041
61363	P03346	Q96T92	0.4754
61364	P03346	Q9Y6N9	0.45149
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61366	P03346	Q15723	1.5382
61367	P03346	Q5F1R6	0.29473
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61370	P03346	Q6R2W3	0.66866
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61373	P03346	Q92681	0.65264
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61376	P03346	O75179	0.54311
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61381	P03346	B2CW77	0.37007
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61388	P03346	Q9BSI4	0.40892
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61403	P03346	A8MU93	0.0077221
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61415	P03346	Q9NSI2	0.0077221
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61418	P03346	Q5T5Y3	0.24315
61419	P03346	Q9NQ39	0.26641
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61423	P03346	Q14781	1.0654
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61431	P03346	Q96NG5	0.31256
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61437	P03346	Q5SZL2	0.35785
61438	P03346	Q5BKX5	0.0077221
61439	P03346	Q9UBW5	0.8379
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61443	P03346	Q96A35	0.36869
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61448	P03346	Q9H0A8	0.8379
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61450	P03346	Q969S3	0.77714
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61463	P03346	Q9H5V9	0.01482
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61477	P03346	Q96AP0	0.3118
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61479	P03346	Q9Y6X9	0.37702
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61481	P03346	P31249	0.82379
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61507	P03346	Q9UKA2	0.68012
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61768	P03346	P0CJ88	0.6797
61769	P03346	P11473	0.47939
61770	P03346	Q86U70	0.34185
61771	P03346	Q1A5X6	0.0077221
61772	P03346	P63173	0.56339
61773	P03346	O15524	0.31897
61774	P03346	Q3MJ62	0.34285
61775	P03346	Q86UU5	0.090554
61776	P03346	P31268	0.58644
61777	P03346	Q5JNZ5	0.26013
61778	P03346	Q9Y281	0.77626
61779	P03346	P56181	0.44494
61780	P03346	P25789	0.60446
61781	P03346	Q9NQC8	0.27766
61782	P03346	P28715	0.37917
61783	P03346	P55036	0.56941
61784	P03346	Q96N21	0.32091
61785	P03346	Q86UR1	0.35153
61786	P03346	Q7Z5Q5	0.28643
61787	P03346	Q8WXF1	1.1933
61788	P03346	P50570	0.37221

61789	P03346	O94892	0.31436
61790	P03346	P02549	0.25731
61791	P03346	Q15788	0.38446
61792	P03346	P28324	1.7076
61793	P03346	P06730	0.66164
61794	P03346	Q08AF8	0.11048
61795	P03346	P62917	0.77029
61796	P03346	Q13895	1.0021
61797	P03346	Q9NSK0	0.20059
61798	P03346	Q16082	1.1541
61799	P03346	P23511	1.476
61800	P03346	Q9NY74	0.65405
61801	P03346	O15397	1.105
61802	P03346	Q9HBD4	0.65913
61803	P03346	Q8N653	0.40553
61804	P03346	Q75VX8	0.12284
61805	P03346	Q6NT89	0.39616
61806	P03346	Q12988	0.63076
61807	P03346	A8MS94	0.11048
61808	P03346	Q9H115	0.20354
61809	P03346	P45973	0.80014
61810	P03346	A6NGD5	0.35994
61811	P03346	Q8N9K3	0.0077221
61812	P03346	Q9UJW0	0.70358
61813	P03346	O14598	0.072694
61814	P03346	O75394	0.36869
61815	P03346	P13807	0.52153
61816	P03346	Q00005	0.65814
61817	P03346	O15535	0.34285
61818	P03346	Q8IX12	1.1735
61819	P03346	O14908	0.35749
61820	P03346	Q8IZM8	0.31436
61821	P03346	P07196	0.75215
61822	P03346	Q9NP64	0.46537
61823	P03346	Q92560	0.33481
61824	P03346	Q6PEX3	0.36736
61825	P03346	O76064	0.28794
61826	P03346	P62249	0.52229
61827	P03346	Q9NPA5	0.31436
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61829	P03346	Q7Z3C6	0.40129
61830	P03346	Q5JWR5	0.20151
61831	P03346	P62913	1.036
61832	P03346	Q9BTC0	0.38439
61833	P03346	Q9HAU4	0.47666
61834	P03346	Q9Y657	0.17655
61835	P03346	B3EWG3	0.0077221
61836	P03346	Q3SY89	0.30149
61837	P03346	Q9UPT5	0.78834
61838	P03346	O15111	0.5684
61839	P03346	P86452	0.73972
61840	P03346	Q15366	1.1483
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61842	P03346	O95229	0.88832
61843	P03346	Q6ZVN8	0.38048
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61845	P03346	A2RRD8	0.31436
61846	P03346	Q6X4W1	0.085953
61847	P03346	Q6NZ67	0.93117
61848	P03346	Q6P1L6	0.31436
61849	P03346	Q7L5A3	0.32217
61850	P03346	Q53ET0	1.0631
61851	P03346	Q96LR2	0.17204
61852	P03346	P52434	0.35827
61853	P03346	Q6QHK4	0.40854
61854	P03346	P0CG31	0.31436
61855	P03346	Q9HAH1	0.31436
61856	P03346	Q15061	0.48532
61857	P03346	P60660	0.48407
61858	P03346	Q53GT1	0.24691
61859	P03346	Q9HAV4	1.374
61860	P03346	Q9BV68	0.4708
61861	P03346	Q06787	1.1282
61862	P03346	Q9Y283	0.48185
61863	P03346	Q8TAY7	0.2489
61864	P03346	Q99687	0.86901

61865	P03346	Q8IZD9	0.47044
61866	P03346	Q4G0A6	0.10934
61867	P03346	P49406	0.66389
61868	P03346	O95402	1.3271
61869	P03346	Q08AN1	0.31436
61870	P03346	Q9Y2Z0	0.62591
61871	P03346	Q9P2W9	0.49831
61872	P03346	Q9NY87	0.51434
61873	P03346	Q7Z5Y7	0.3559
61874	P03346	O95677	0.21762
61875	P03346	Q96HA7	0.92502
61876	P03346	Q9H8N7	0.44027
61877	P03346	Q96MP8	0.4624
61878	P03346	A6NJ78	0.052605
61879	P03346	Q96NJ6	0.31644
61880	P03346	P35325	0.1267
61881	P03346	Q5XKR9	0.1098
61882	P03346	O15027	0.35285
61883	P03346	A6NJ88	0.037931
61884	P03346	Q96HW7	0.88882
61885	P03346	A2A288	0.36027
61886	P03346	P12270	0.67176
61887	P03346	O95625	0.4117
61888	P03346	P12956	0.37332
61889	P03346	Q49A33	0.31436
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61891	P03346	Q14207	1.1312
61892	P03346	Q9H2G9	0.68677
61893	P03346	Q9BRR0	0.50363
61894	P03346	Q8IUE1	0.71675
61895	P03346	O43290	1.1428
61896	P03346	Q9H2H8	0.61887
61897	P03346	Q9NZH4	0.37793
61898	P03346	Q9UHD9	1.0361
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61901	P03346	Q08379	0.60748
61902	P03346	C9JN71	0.33838
61903	P03346	Q9NVI1	0.93052
61904	P03346	Q8WX93	0.5483
61905	P03346	Q6PJG6	0.87916
61906	P03346	Q99966	0.28724
61907	P03346	Q92979	0.58902
61908	P03346	Q6ZRF7	0.31436
61909	P03346	Q96C55	0.31436
61910	P03346	P24385	0.57196
61911	P03346	Q7Z2Z1	0.87087
61912	P03346	Q9NPJ6	1.0502
61913	P03346	Q9UGP4	0.50346
61914	P03346	Q7L2Z9	0.1652
61915	P03346	P61579	0.74357
61916	P03346	Q7Z340	0.31436
61917	P03346	A2RU30	0.17173
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61919	P03346	Q01201	1.2761
61920	P03346	Q9BRU2	0.77395
61921	P03346	Q9P2N7	0.33151
61922	P03346	Q5T1R4	0.46405
61923	P03346	O14829	0.44379
61924	P03346	Q9BU68	0.015848
61925	P03346	Q8TBN0	0.58254
61926	P03346	Q9H765	0.47271
61927	P03346	Q8N7R0	0.71675
61928	P03346	Q9P031	1.3712
61929	P03346	Q96MR9	0.31436
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61931	P03346	Q9P0J6	0.35035
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61933	P03346	Q96CM4	0.3216
61934	P03346	Q8N888	0.06799
61935	P03346	Q8N983	0.54515
61936	P03346	Q9HCU8	0.63576
61937	P03346	Q9Y4P1	0.41895
61938	P03346	Q8WV37	0.61543
61939	P03346	Q9NZV7	0.32639
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61942	P03346	Q9UD57	0.44258
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61944	P03346	P82912	0.34123
61945	P03346	A3KN83	0.13259
61946	P03346	Q14315	0.47632
61947	P03346	Q9H469	0.52327
61948	P03346	Q6ICB0	0.15286
61949	P03346	P50221	0.88868
61950	P03346	P80303	0.3114
61951	P03346	O96006	0.23908
61952	P03346	Q06609	0.56365
61953	P03346	P04406	0.4566
61954	P03346	P18847	1.4119
61955	P03346	Q08170	0.351
61956	P03346	Q8IV13	0.32217
61957	P03346	P50452	0.83471
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61959	P03346	Q9NQG5	1.3274
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61961	P03346	Q8N1L9	1.2652
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61963	P03346	Q75112	0.42222
61964	P03346	Q9NQ55	0.65145
61965	P03346	Q9Y324	0.47318
61966	P03346	Q96S95	0.54986
61967	P03346	P07900	0.54452
61968	P03346	P13489	0.72993
61969	P03346	Q6P2D8	0.50299
61970	P03346	Q9BV90	0.42391
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61972	P03346	Q8NBJ4	0.04142
61973	P03346	Q86YD1	0.76096
61974	P03346	Q8N163	0.95118
61975	P03346	Q96MF7	0.56794
61976	P03346	P30279	0.74976
61977	P03346	Q9Y5R8	0.26633
61978	P03346	Q15834	1.3132
61979	P03346	P29373	0.37665
61980	P03346	Q5XG87	0.32566
61981	P03346	Q8N8G2	1.1121
61982	P03346	Q13228	1.4162
61983	P03346	P83111	0.30744
61984	P03346	Q9NRN7	0.59542
61985	P03346	Q8IYB3	0.69873
61986	P03346	P05783	1.3154
61987	P03346	P57055	0.30852
61988	P03346	Q96HY6	0.6139
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61991	P03346	Q14135	0.74266
61992	P03346	Q5T2W1	0.73663
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61997	P03346	Q96EK4	1.3957
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62006	P03346	Q9UDY2	1.0997
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62008	P03346	P41091	0.21796
62009	P03346	Q8IYA6	0.17073
62010	P03346	O75427	0.77888
62011	P03346	Q5CZC0	0.14441
62012	P03346	Q9NWU2	0.32217
62013	P03346	Q9BWM5	0.31436
62014	P03346	O95149	0.63942
62015	P03346	Q96PU5	0.35656
62016	P03346	Q6TGC4	0.35113

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62018	P03346	Q99612	0.47502
62019	P03346	P0CG33	0.11048
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62023	P03346	Q7Z3Y8	0.58681
62024	P03346	P60369	0.40421
62025	P03346	Q99873	0.7549
62026	P03346	Q9UEG4	0.31436
62027	P03346	Q7Z591	0.70946
62028	P03346	P58012	0.44874
62029	P03346	Q9BSF8	0.65405
62030	P03346	Q14258	0.96218
62031	P03346	Q9Y5Q8	0.96338
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62034	P03346	Q95551	0.81525
62035	P03346	Q9BYU5	0.40421
62036	P03346	P0CAP2	0.19564
62037	P03346	Q14814	0.79961
62038	P03346	P78337	0.69282
62039	P03346	Q96017	0.64279
62040	P03346	Q8IXH7	1.2815
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62042	P03346	P60006	0.16466
62043	P03346	P36508	0.30991
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62046	P03346	Q93062	1.0871
62047	P03346	Q96S94	0.70286
62048	P03346	Q9Y2P0	0.31436
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62057	P03346	Q86XR8	1.0762
62058	P03346	Q8IXM2	0.35777
62059	P03346	Q9P032	0.74971
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62061	P03346	Q14511	0.80823
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62063	P03346	Q8WYB5	0.31511
62064	P03346	Q96SD1	0.23342
62065	P03346	Q9NS69	0.33771
62066	P03346	Q52M93	0.33838
62067	P03346	Q9H116	0.5775
62068	P03346	Q86UT8	0.19349
62069	P03346	Q9UP83	1.4519
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62071	P03346	Q5HYW3	0.06162
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62073	P03346	Q12905	1.3597
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62075	P03346	Q96LY2	0.035326
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62077	P03346	P25685	0.55324
62078	P03346	Q9Y3C0	0.6156
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62087	P03346	Q86WZ0	0.024832
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62105	P03346	P46100	0.63978
62106	P03346	Q8N9B5	0.91437
62107	P03346	Q6PCD5	0.24588
62108	P03346	Q9GZR2	0.4593
62109	P03346	Q5JTW2	0.54312
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62124	P03346	O15392	0.22634
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62129	P03346	O43684	0.76034
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62138	P03346	P09651	0.41588
62139	P03346	Q6P2S7	0.20041
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62142	P03346	O43447	0.90052
62143	P03346	O95684	0.93666
62144	P03346	Q9H706	0.66787
62145	P03346	Q08999	1.5259
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62147	P03346	Q96EL3	0.37322
62148	P03346	H0YKK7	0.015632
62149	P03346	P17039	0.31436
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62151	P03346	P08727	0.70581
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62160	P03346	Q5T8I9	0.34901
62161	P03346	Q99460	0.24711
62162	P03346	Q8IX06	0.19743
62163	P03346	B2RD01	0.29934
62164	P03346	Q9BQG0	0.85473
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62167	P03346	Q9NX02	0.27397
62168	P03346	Q9Y3C6	0.1282

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62175	P03346	Q8N6M9	0.32295
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62177	P03346	Q8N8B7	0.34797
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62190	P03346	Q5HYK9	0.31436
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62194	P03346	Q9BYG8	0.34138
62195	P03346	Q9UL59	0.31436
62196	P03346	Q8IW19	0.53882
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62198	P03346	Q3SYF9	0.36736
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62205	P03346	Q96BA8	0.38626
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62207	P03346	Q7RTV0	0.82488
62208	P03346	P55265	0.52873
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62210	P03346	O60732	0.66787
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62213	P03346	Q9UIV1	1.2819
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62215	P03346	P78414	0.66978
62216	P03346	Q16384	0.4707
62217	P03346	Q9BSU3	0.67596
62218	P03346	P06748	0.46184
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62231	P03346	Q52LR7	0.67697
62232	P03346	Q14901	0.37359
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62234	P03346	Q9H2H0	0.31327
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62236	P03346	P0C7T5	0.43488
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62238	P03346	Q8NC26	0.31436
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62241	P03346	Q8NFV4	0.23421
62242	P03346	Q96NJ3	0.31436
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62244	P03346	O75190	0.9094



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62247	P03346	Q9ULW3	1.1111
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62252	P03346	Q96M11	0.62166
62253	P03346	Q8IZW8	0.62882
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62256	P03346	P14866	0.82995
62257	P03346	P05413	0.48904
62258	P03346	Q9H5P4	0.73341
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62656	P03346	Q969W8	0.31436
62657	P03346	Q9NZM5	0.25053
62658	P03346	P28074	0.50625
62659	P03346	Q9UMR2	0.30472
62660	P03346	Q56P03	0.55781
62661	P03346	Q13148	0.83133
62662	P03346	Q92614	0.33814
62663	P03346	Q15797	0.31096
62664	P03346	Q70SY1	0.22489
62665	P03346	Q86XK3	0.93048
62666	P03346	Q9Y3C1	0.44008
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62668	P03346	Q9GZV5	1.1069
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62670	P03346	P27469	0.85174
62671	P03346	P50549	1.2238
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62673	P03346	Q969X6	1.4533
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62675	P03346	P49721	0.39017
62676	P03346	Q6ZTU2	0.14315
62677	P03346	Q9BX40	0.07292
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62681	P03346	O95391	0.38013
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62697	P03346	Q9UMS6	0.8913
62698	P03346	O75410	0.90173
62699	P03346	Q15154	0.67625
62700	P03346	O60563	1.4423

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62827	P03346	Q99689	0.29649
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63098	P03346	K7EIQ3	0.10013
63099	P03346	Q969T9	0.67303
63100	P03346	Q96PM5	0.57174
63101	P03346	Q75475	1.3577
63102	P03346	P49750	1.3411
63103	P03346	P56555	0.19669
63104	P03346	Q49A88	0.17073
63105	P03346	Q15185	0.65103
63106	P03346	Q14744	1.0467
63107	P03346	Q9BW11	0.72512
63108	P03346	Q96A26	0.34785
63109	P03346	P23760	1.1996
63110	P03346	Q8IZ20	0.31436
63111	P03346	Q9BWT7	0.4803
63112	P03346	P56524	0.30994
63113	P03346	Q6NSW7	0.71675
63114	P03346	P15408	0.88458
63115	P03346	Q5JT18	0.11221
63116	P03346	Q75970	0.34021
63117	P03346	Q9UL68	0.20768
63118	P03346	Q9H3P2	1.1924
63119	P03346	Q9UK11	0.29135
63120	P03346	Q76009	0.47854
63121	P03346	Q6UWF3	0.058829
63122	P03346	Q8N1F7	0.7092
63123	P03346	Q9NTM9	0.42423
63124	P03346	Q9H329	0.23737
63125	P03346	Q9P2F5	0.091138
63126	P03346	P17535	1.2441
63127	P03346	Q9NUW8	0.82428
63128	P03346	P60608	0.10147
63129	P03346	P13010	0.43325
63130	P03346	P04732	0.26681
63131	P03346	Q86YW9	0.66979
63132	P03346	Q8IYH5	0.69313
63133	P03346	Q9BYC8	0.52493
63134	P03346	O43298	0.31436
63135	P03346	Q16401	0.42833
63136	P03346	Q15327	0.54356
63137	P03346	Q14709	0.34285
63138	P03346	Q96T51	0.3324
63139	P03346	Q8ND83	0.12237
63140	P03346	P19622	0.56791
63141	P03346	Q6NX45	0.31436
63142	P03346	Q156A1	0.39361
63143	P03346	Q9UNS1	0.69573
63144	P03346	Q7Z3G6	0.27687
63145	P03346	Q9H0R1	0.39797
63146	P03346	Q96KH6	0.032912
63147	P03346	O95678	0.29497
63148	P03346	O00410	1.2954
63149	P03346	Q8NCR6	0.2975
63150	P03346	Q5T681	0.66787
63151	P03346	Q8N9W5	0.2256
63152	P03346	O00712	0.43428
63153	P03346	Q86SZ2	0.19974
63154	P03346	A6NE82	0.46683
63155	P03346	P05114	0.43324
63156	P03346	Q9H4P4	0.35636

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63158	P03346	O75335	0.47367
63159	P03346	Q5PSV4	0.69594
63160	P03346	Q3SY52	0.31436
63161	P03346	A5LHX3	0.31946
63162	P03346	Q04743	0.60536
63163	P03346	Q969H6	1.0569
63164	P03346	O75534	0.51545
63165	P03346	Q96NA2	0.29144
63166	P03346	Q71F56	0.70213
63167	P03346	P19367	0.35383
63168	P03346	Q15906	1.2523
63169	P03346	O00287	0.38899
63170	P03346	Q9ULE6	0.96272
63171	P03346	Q8IV03	0.1189
63172	P03346	P15121	0.31372
63173	P03346	Q9HC77	0.87076
63174	P03346	Q9NQY0	0.55748
63175	P03346	O75170	0.7731
63176	P03346	P60709	0.17041
63177	P03346	P26641	0.66337
63178	P03346	Q92858	0.27936
63179	P03346	Q9UJY1	0.73028
63180	P03346	Q9NX40	0.71965
63181	P03346	Q9Y5J7	0.38256
63182	P03346	Q93074	0.62696
63183	P03346	Q53GS7	0.7748
63184	P03346	P78358	0.8379
63185	P03346	Q63HM1	0.45465
63186	P03346	P78344	0.64438
63187	P03346	P58557	0.32514
63188	P03346	Q5TD94	0.32867
63189	P03346	Q96QT6	0.99279
63190	P03346	Q8IVF2	0.32217
63191	P03346	Q99426	0.40646
63192	P03346	O60318	0.12686
63193	P03346	C9JLW8	0.035984
63194	P03346	Q9NPI1	1.1453
63195	P03346	P31276	0.93576
63196	P03346	Q5H9F3	0.83748
63197	P03346	O95707	0.84413
63198	P03346	P36543	0.41387
63199	P03346	Q9NVK5	0.37004
63200	P03346	P17026	0.27098
63201	P03346	P19013	0.63855
63202	P03346	O43815	0.44982
63203	P03346	Q99856	0.99026
63204	P03346	Q9UMS0	1.2158
63205	P03346	P49789	0.71335
63206	P03346	O43255	0.49178
63207	P03346	P53803	0.25184
63208	P03346	P17022	0.34285
63209	P03346	P61254	0.56901
63210	P03346	P23409	0.3371
63211	P03346	Q96B42	0.15106
63212	P03346	O14757	0.57005
63213	P03346	Q66K74	0.39023
63214	P03346	A6NFQ7	0.71675
63215	P03346	Q96E16	0.18669
63216	P03346	Q9BQ48	0.35035
63217	P03346	Q6P050	0.044653
63218	P03346	Q8N5A5	0.98821
63219	P03346	P10746	0.070149
63220	P03346	Q8WU03	0.017346
63221	P03346	Q7Z7J5	0.79885
63222	P03346	Q9ULH7	1.1244
63223	P03346	Q8TBC5	0.34285
63224	P03346	Q86VX9	0.18908
63225	P03346	O95347	0.54682
63226	P03346	Q9HBG6	0.27148
63227	P03346	Q9Y678	0.73223
63228	P03346	Q9H9Y6	0.79813
63229	P03346	P38919	0.43752
63230	P03346	P0C7H9	0.34408
63231	P03346	P27348	0.60811
63232	P03346	Q5BKY9	0.0077221

63233	P03346	P56537	1.3571
63234	P03346	Q14141	0.24173
63235	P03346	Q9NX95	0.40627
63236	P03346	Q16520	1.3202
63237	P03346	O95931	1.072
63238	P03346	Q12986	0.46222
63239	P03346	Q5HY98	0.31436
63240	P03346	Q12981	0.32001
63241	P03346	Q86WG5	0.29048
63242	P03346	O60573	0.77468
63243	P03346	O43264	0.67768
63244	P03346	P35227	0.83862
63245	P03346	Q86TG7	0.76047
63246	P03346	P62495	0.78457
63247	P03346	Q7Z589	0.74315
63248	P03346	Q04206	0.59224
63249	P03346	Q06250	0.12821
63250	P03346	P18054	0.26966
63251	P03346	Q2TAK8	0.90302
63252	P03346	Q8N660	0.2685
63253	P03346	P36639	0.44095
63254	P03346	Q8IZ40	0.90354
63255	P03346	Q5T3J3	1.286
63256	P03346	Q9UIC8	0.55281
63257	P03346	Q68DI1	0.31436
63258	P03346	Q7L2E3	0.47278
63259	P03346	P33076	0.67986
63260	P03346	Q8N9W8	0.65405
63261	P03346	Q8IVG9	0.34294
63262	P03346	Q96GX8	0.0077221
63263	P03346	Q9UBU7	0.28145
63264	P03346	P07910	0.65875
63265	P03346	B9ZVM9	0.13682
63266	P03346	O14682	0.24083
63267	P03346	Q9HAJ7	0.72377
63268	P03346	Q12802	0.29716
63269	P03346	Q9BSB4	0.59468
63270	P03346	Q86UE3	0.31436
63271	P03346	Q53H80	0.61993
63272	P03346	O95782	0.50253
63273	P03346	Q71UM5	0.74156
63274	P03346	Q86WU2	0.27165
63275	P03346	P51826	0.70369
63276	P03346	Q2TAZ0	0.66787
63277	P03346	Q49B96	0.33623
63278	P03346	P07476	0.1775
63279	P03346	Q9NTX7	0.62836
63280	P03346	Q8TAK6	0.45852
63281	P03346	Q8N9Y4	0.078026
63282	P03346	Q9H9D4	0.81093
63283	P03346	O00170	0.78527
63284	P03346	Q6W0C5	0.21901
63285	P03346	Q9BRQ6	0.60438
63286	P03346	Q8IV54	0.41915
63287	P03346	Q8NA47	0.0077221
63288	P03346	Q9NXR1	0.40251
63289	P03346	P23786	0.22883
63290	P03346	P0CJ85	0.6797
63291	P03346	Q9P2S5	0.33677
63292	P03346	Q99816	0.47178
63293	P03346	P24864	0.62892
63294	P03346	O15061	0.90394
63295	P03346	Q9NX18	1.0071
63296	P03346	Q96RS6	0.49807
63297	P03346	Q53HL2	0.99405
63298	P03346	P53618	0.82388
63299	P03346	P14136	0.27393
63300	P03346	Q9UQC2	0.42636
63301	P03346	Q9UKT8	0.59623
63302	P03346	Q9UMY4	0.3759
63303	P03346	Q8IYN6	0.033045
63304	P03346	P98170	0.32274
63305	P03346	Q0VG06	0.7527
63306	P03346	Q5T200	0.479
63307	P03346	Q9NZD8	0.92951
63308	P03346	Q3MIS6	0.31436

63309	P03346	Q8N9K5	0.31436
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63311	P03346	H3BNL1	0.0057171
63312	P03346	Q9P209	0.98246
63313	P03346	Q9ULD0	0.47651
63314	P03346	P52737	0.85532
63315	P03346	Q96BP3	0.35639
63316	P03346	Q9HCH5	0.72116
63317	P03346	Q9Y383	0.37335
63318	P03346	O95238	0.62145
63319	P03346	Q8N684	0.72199
63320	P03346	Q12906	1.4304
63321	P03346	Q9NXV2	1.5071
63322	P03346	Q7L3S4	0.31436
63323	P03346	O95163	0.86669
63324	P03346	O94776	1.0655
63325	P03346	P28698	0.80408
63326	P03346	Q6ZMS7	0.49207
63327	P03346	Q07021	0.85059
63328	P03346	Q9ULJ3	0.81535
63329	P03346	P60329	0.40421
63330	P03346	P13056	0.76403
63331	P03346	Q7Z739	0.66787
63332	P03346	Q9NQ69	0.32758
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63334	P03346	Q9BVT8	0.18669
63335	P03346	H3BNL8	0.093534
63336	P03346	O00321	0.59456
63337	P03346	Q16222	0.39917
63338	P03346	Q5T4T6	0.48532
63339	P03346	O60232	0.88126
63340	P03346	Q9H1L0	0.037061
63341	P03346	Q96FH0	0.57969
63342	P03346	Q9UN30	0.67357
63343	P03346	Q13835	0.45247
63344	P03346	Q96MY1	0.0030483
63345	P03346	Q6ZRV2	0.05054
63346	P03346	Q6PJG2	1.0775
63347	P03346	P61218	0.39077
63348	P03346	Q5T753	0.02884
63349	P03346	P11142	0.46893
63350	P03346	Q14157	0.54888
63351	P03346	Q9UM13	0.75019
63352	P03346	P25686	0.33635
63353	P03346	A8MSY0	0.51797
63354	P03346	Q01850	1.1499
63355	P03346	O00268	1.1351
63356	P03346	P52951	0.41368
63357	P03346	Q9NWK9	0.51534
63358	P03346	P31948	1.1289
63359	P03346	O95671	0.30272
63360	P03346	Q9H1H9	0.53583
63361	P03346	Q8WW59	0.44546
63362	P03346	P82979	0.73986
63363	P03346	Q8IXJ6	0.30827
63364	P03346	Q13023	0.76475
63365	P03346	O60806	0.7711
63366	P03346	Q9P2T0	0.50795
63367	P03346	Q92886	0.40266
63368	P03346	Q6ZS46	0.097853
63369	P03346	Q96J94	0.24392
63370	P03346	P02794	0.83316
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63372	P03346	O75940	0.99671
63373	P03346	Q8TDY2	1.0268
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63375	P03346	C9J3V5	0.16168
63376	P03346	Q9UHN1	0.33966
63377	P03346	P56177	0.68689
63378	P03346	Q96CS4	0.31436
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63381	P03346	Q9NPB6	0.71273
63382	P03346	Q9POL1	0.34285
63383	P03346	Q9BQ13	0.3559
63384	P03346	Q9NUL3	0.90311

63385	P03346	Q15056	0.50024
63386	P03346	Q96M29	0.098591
63387	P03346	P60174	0.31474
63388	P03346	O60244	0.69619
63389	P03346	Q9C035	0.62746
63390	P03346	Q9BYW2	0.27122
63391	P03346	Q9H7J1	0.11316
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63393	P03346	Q9H583	1.2195
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63395	P03346	Q96FA7	0.21218
63396	P03346	Q9H4W6	0.3142
63397	P03346	Q8WTW4	0.63302
63398	P03346	A8MWD9	0.43888
63399	P03346	Q9ULM3	1.1015
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63401	P03346	Q8WWB5	0.024172
63402	P03346	Q9Y2Z2	0.093068
63403	P03346	Q92826	0.38236
63404	P03346	Q86XG9	0.20041
63405	P03346	Q04741	0.25665
63406	P03346	Q9BYE4	0.1267
63407	P03346	P57075	0.57332
63408	P03346	Q6ZQN3	0.14944
63409	P03346	P08621	0.75238
63410	P03346	Q6ISB3	1.0208
63411	P03346	Q86VN1	0.73862
63412	P03346	Q63HK5	0.44917
63413	P03346	Q00587	0.41991
63414	P03346	Q5TB30	0.52474
63415	P03346	P15173	0.27649
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63418	P03346	P55854	0.81086
63419	P03346	Q5T653	0.36869
63420	P03346	Q8IXT5	0.20671
63421	P03346	Q9NX01	0.52949
63422	P03346	Q08050	0.55808
63423	P03346	Q96G21	1.1327
63424	P03346	Q8IUC1	0.51027
63425	P03346	Q9GZL8	0.12821
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63429	P03346	Q5JSS6	0.11646
63430	P03346	Q9H8E8	0.93209
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63433	P03346	Q8IX03	1.2138
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63437	P03346	Q14209	1.2864
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63442	P03346	Q13242	0.38429
63443	P03346	Q8N5I9	0.0077221
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63447	P03346	P52742	0.35506
63448	P03346	Q6UN15	0.41273
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63450	P03346	Q8WV22	0.35126
63451	P03346	P69208	0.39865
63452	P03346	Q9UDV7	0.32869
63453	P03346	Q9H825	0.46931
63454	P03346	Q6MZT1	0.20055
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63457	P03346	Q9C0D4	0.31436
63458	P03346	Q9BYE7	0.93606
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63461	P03346	P29692	0.53711
63462	P03346	Q9NPG2	0.18476
63463	P03346	Q8WTR7	0.80821
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63471	P03346	Q96C03	0.19801
63472	P03346	Q9NVP1	0.32037
63473	P03346	Q9NT62	0.66634
63474	P03346	Q9BR76	0.58858
63475	P03346	Q9P206	0.079707
63476	P03346	P15622	0.31436
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63480	P03346	Q96T21	0.46003
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63487	P03346	Q93050	0.31235
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63513	P03346	P63279	0.75888
63514	P03346	Q96AV8	0.6776
63515	P03346	O43482	0.65128
63516	P03346	Q8TA94	0.31436
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63519	P03346	P06703	0.24825
63520	P03346	Q9NRX3	0.0042209
63521	P03346	O75396	0.5114
63522	P03346	P42574	0.24622
63523	P03346	Q96IY1	0.98886
63524	P03346	Q96TC7	0.51061
63525	P03346	Q7L9L4	0.9099
63526	P03346	Q9NYG5	0.73939
63527	P03346	Q9H2W6	0.4377
63528	P03346	Q9NZW5	0.38073
63529	P03346	O43186	1.125
63530	P03346	Q9NX65	0.31436
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63532	P03346	O00505	1.173
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63536	P03346	Q8IYF3	0.79132

63537	P03346	Q8IZY5	0.34086
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63541	P03346	Q9NRJ4	0.49512
63542	P03346	Q00257	1.1586
63543	P03346	Q9Y2D1	1.4334
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63549	P03346	Q9P1Y5	0.12027
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63551	P03346	Q5JSZ5	0.66787
63552	P03346	Q9NP08	0.50207
63553	P03346	Q86UD4	0.31436
63554	P03346	P58340	0.7624
63555	P03346	Q96SE7	0.31436
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63557	P03346	Q9UIF7	0.44976
63558	P03346	Q6ZRP0	0.0077221
63559	P03346	Q96AY2	0.91889
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63561	P03346	Q96DM1	0.02649
63562	P03346	Q8N319	0.23171
63563	P03346	Q969V6	1.5183
63564	P03346	Q9BUR4	1.0566
63565	P03346	Q9HCG1	0.32241
63566	P03346	Q86WQ0	0.80058
63567	P03346	Q9BTT4	0.88548
63568	P03346	P49005	0.73761
63569	P03346	Q7Z614	0.70874
63570	P03346	Q9NZI5	0.77514
63571	P03346	Q15942	0.3631
63572	P03346	P58304	0.53667
63573	P03346	P21673	0.44554
63574	P03346	Q6P0N0	0.46306
63575	P03346	Q92552	0.96448
63576	P03346	Q8NFH5	0.65126
63577	P03346	D6RGH6	1.408
63578	P03346	P62424	1.0566
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63580	P03346	Q13438	0.3358
63581	P03346	P26358	0.48717
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63583	P03346	Q96NL8	0.20041
63584	P03346	P28289	0.30407
63585	P03346	Q15386	0.51528
63586	P03346	A6NJT0	0.32488
63587	P03346	Q8WWZ8	0.30386
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63623	P03346	Q9UBQ0	0.23882
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63629	P03346	Q02575	0.30595
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63658	P03346	Q9Y3S2	0.12714
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63723	P03346	Q9BYQ6	0.40421
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63726	P03346	Q9H213	0.21317
63727	P03346	Q53HC0	0.88011
63728	P03346	Q9Y5R5	0.4512
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63734	P03346	Q9BXY8	0.55091
63735	P03346	Q14749	0.75573
63736	P03346	P62899	0.66528
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63741	P03346	Q8NB42	0.31436
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63994	P03346	Q9UIA9	0.71827
63995	P03346	Q9NYW8	0.3493
63996	P03346	P20719	0.34215
63997	P03346	Q5T6F2	0.059122
63998	P03346	Q14602	0.687
63999	P03346	Q9NXV6	0.7221
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64001	P03346	Q8N0Z3	0.66142
64002	P03346	Q658L1	0.092368
64003	P03346	Q8TD31	0.11766
64004	P03346	Q93034	0.76791
64005	P03346	O00151	0.36662
64006	P03346	P60014	0.40421
64007	P03346	Q13351	0.24179
64008	P03346	O43805	0.73629
64009	P03346	Q5BJF2	0.32996
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64012	P03346	Q8WWX9	0.68371
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64014	P03346	O14508	0.46528
64015	P03346	P62826	0.6236
64016	P03346	Q8TB72	0.81129
64017	P03346	Q00987	0.24456
64018	P03346	Q8TEW0	0.27001
64019	P03346	Q96FZ2	0.096385
64020	P03346	P61962	0.98152
64021	P03346	Q9BWG6	0.31086
64022	P03346	Q12834	0.81339
64023	P03346	O00566	0.65759
64024	P03346	P0CG40	0.26056
64025	P03346	A5A3E0	0.12449
64026	P03346	O15519	0.48875
64027	P03346	O15198	0.63064
64028	P03346	Q0VGE8	0.31436
64029	P03346	Q9NZ81	0.88516
64030	P03346	Q9Y664	0.18574
64031	P03346	O75444	0.69469
64032	P03346	P30305	0.42144
64033	P03346	Q96FA3	0.36925
64034	P03346	P62879	0.61016
64035	P03346	Q8N7K0	0.31436
64036	P03346	Q9BT78	1.2317
64037	P03346	Q6PGP7	1.0249
64038	P03346	Q6QNY0	0.58253
64039	P03346	Q96FZ7	0.25747
64040	P03346	Q9UKJ3	0.31701
64041	P03346	Q96A49	0.32217
64042	P03346	Q9H4T2	0.34285
64043	P03346	Q8IYB7	0.34269
64044	P03346	Q9BQ90	1.0087
64045	P03346	O95793	0.52023
64046	P03346	Q53T94	0.57036
64047	P03346	Q8TF09	0.20578
64048	P03346	Q5U5X8	0.089479
64049	P03346	Q8WUW1	0.254
64050	P03346	Q8NCD3	0.73851
64051	P03346	Q8NCQ2	0.055129
64052	P03346	P78426	0.28291
64053	P03346	Q8TC94	0.18249
64054	P03346	Q8NDX6	0.33838
64055	P03346	Q9NS25	0.47043
64056	P03346	P09001	0.31971
64057	P03346	Q9NSD4	0.31436
64058	P03346	Q86SE8	0.2959
64059	P03346	Q9Y6E7	0.52517
64060	P03346	Q9P086	1.2846
64061	P03346	Q9UKV3	0.78243
64062	P03346	Q9Y255	0.30778
64063	P03346	Q66K41	0.086253
64064	P03346	P0C1Z6	1.4882
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64072	P03346	P0CJ90	0.6797
64073	P03346	Q9BT04	0.14422
64074	P03346	P30047	0.79526
64075	P03346	Q93045	0.35564
64076	P03346	Q6P9G9	0.34285
64077	P03346	O15534	0.45236
64078	P03346	A7MD48	0.18768
64079	P03346	Q9BV47	0.5336
64080	P03346	Q69YN4	0.33682
64081	P03346	B3EWF7	0.32217
64082	P03346	O94855	0.52905
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64088	P03346	P08047	0.70163
64089	P03346	Q9BQW3	0.35613
64090	P03346	Q9BXP5	1.3763
64091	P03346	Q9H098	0.072414
64092	P03346	Q92870	0.92967
64093	P03346	Q9H582	0.31436
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64095	P03346	Q5TAG4	0.20041
64096	P03346	P08708	0.47675
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64102	P03346	Q9BYD5	0.17719
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64104	P03346	O95433	0.75642
64105	P03346	Q8IYJ3	0.40761
64106	P03346	Q86Y26	0.49807
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64109	P03346	O95999	0.27343
64110	P03346	Q15853	0.88596
64111	P03346	Q96LW9	0.34285
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64116	P03346	P20226	0.96545
64117	P03346	Q6PCE3	0.22356
64118	P03346	Q9H5F2	0.34434
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64120	P03346	Q9HC78	0.46161
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64122	P03346	Q9H8Q6	0.07938
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64124	P03346	O00422	1.4224
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64126	P03346	P20265	0.85574
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64129	P03346	Q8N9F8	0.31436
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64131	P03346	Q92766	0.29568
64132	P03346	Q86YF9	0.33308
64133	P03346	Q9H501	0.98376
64134	P03346	O95561	0.053798
64135	P03346	Q7Z6B0	0.60475
64136	P03346	Q96JM2	0.4606
64137	P03346	Q6IS14	0.48137
64138	P03346	Q92796	0.50101
64139	P03346	Q8N5C8	0.50165
64140	P03346	Q8TDD2	0.52439
64141	P03346	P98168	0.81958
64142	P03346	Q96MT3	0.87479
64143	P03346	Q9Y316	0.4389
64144	P03346	P18850	0.84134

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64146	P03346	Q9H963	0.31436
64147	P03346	Q15024	0.87553
64148	P03346	P17480	1.2563
64149	P03346	Q6ZNE5	0.61745
64150	P03346	O75347	0.16678
64151	P03346	Q9H0R8	0.37923
64152	P03346	Q9UK10	0.31436
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64154	P03346	Q3B7T1	0.74266
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64156	P03346	Q9H869	1.628
64157	P03346	Q9P2W6	0.20041
64158	P03346	P22670	1.1506
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64164	P03346	O95600	0.31436
64165	P03346	Q8IX01	0.33697
64166	P03346	Q9H5Z6	0.66787
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64172	P03346	Q8N8E2	0.24287
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64176	P03346	Q9UNQ2	0.26563
64177	P03346	Q14CZ0	0.22272
64178	P03346	A8MUZ8	0.31436
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64180	P03346	P52736	0.83914
64181	P03346	P35908	0.52749
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64183	P03346	O75167	0.52182
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64185	P03346	Q9H5J8	1.3467
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64189	P03346	Q14919	0.41971
64190	P03346	O43768	0.3578
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64207	P03346	Q6UYE1	0.051053
64208	P03346	Q8N490	0.31689
64209	P03346	A6NNA2	0.12119
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64216	P03346	Q5TC12	0.73559
64217	P03346	P48553	0.33524
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64225	P03346	Q5TA82	0.02884
64226	P03346	Q96G25	1.2401
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64234	P03346	Q86W54	0.57809
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64239	P03346	Q9Y3P8	0.020273
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64246	P03346	Q9UHQ7	0.094527
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64442	P03346	Q9C0D2	0.35785
64443	P03346	Q8N8Z8	0.31436
64444	P03346	Q5MJ68	0.53166
64445	P03346	O75161	0.59038
64446	P03346	Q86VM9	0.32105
64447	P03346	Q96BN2	0.79965
64448	P03346	P0CG30	0.55716

64449	P03346	Q9BT49	0.36317
64450	P03346	P18848	1.2955
64451	P03346	P60411	0.40421
64452	P03346	P04080	0.23731
64453	P03346	Q9Y6D6	0.73621
64454	P03346	P59998	0.3837
64455	P03346	Q3LI77	0.36736
64456	P03346	Q96B36	0.97009
64457	P03346	Q14582	0.64204
64458	P03346	Q9Y6F6	0.20843
64459	P03346	Q9GZM3	0.34613
64460	P03346	Q2M1V0	0.71675
64461	P03346	Q8N954	0.16667
64462	P03346	Q96JL9	0.31436
64463	P03346	Q53HV7	0.84229
64464	P03346	Q9P243	0.53478
64465	P03346	Q8IYI8	0.31436
64466	P03346	P99999	0.71944
64467	P03346	Q3LHN0	0.36736
64468	P03346	O00327	0.42918
64469	P03346	Q8ND82	0.27653
64470	P03346	Q8WW18	0.0077221
64471	P03346	Q6L8G9	0.40421
64472	P03346	Q9H2K2	0.45644
64473	P03346	Q58F21	0.49877
64474	P03346	Q99700	0.88628
64475	P03346	Q9BQ70	1.5977
64476	P03346	Q10567	0.74337
64477	P03346	Q16890	0.63019
64478	P03346	Q7Z4V5	0.35728
64479	P03346	Q09666	0.98011
64480	P03346	Q6NUQ1	0.80994
64481	P03346	Q9BZ29	0.22818
64482	P03346	Q9UKL3	1.1191
64483	P03346	Q15170	0.7505
64484	P03346	Q86TB9	1.0281
64485	P03346	Q14151	1.0819
64486	P03346	P12036	0.59177
64487	P03346	Q2M2I5	0.58798
64488	P03346	Q14153	0.12821
64489	P03346	Q9NQR4	0.45141
64490	P03346	Q9H4I8	0.35247
64491	P03346	Q96EP0	0.29887
64492	P03346	P14921	0.90073
64493	P03346	P47914	0.5786
64494	P03346	Q9HAW4	0.67337
64495	P03346	Q9NWW0	0.49807
64496	P03346	Q9BW27	0.78422
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64499	P03346	O00161	1.0128
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64507	P03346	Q96PI1	0.16848
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64509	P03346	Q9BUN8	0.13626
64510	P03346	Q9Y5J6	0.13307
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64512	P03346	P84022	0.46882
64513	P03346	O43148	1.0228
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64515	P03346	Q15742	0.54606
64516	P03346	O14628	0.31436
64517	P03346	Q86Y25	0.31436
64518	P03346	Q8HWS3	0.6285
64519	P03346	Q14676	0.81288
64520	P03346	Q12904	0.20406
64521	P03346	Q8TAG6	0.015025
64522	P03346	P11308	0.91968
64523	P03346	Q04726	1.2415
64524	P03346	Q9H063	0.5776

64525	P03346	Q8IWS0	0.65171
64526	P03346	Q86SE9	1.1176
64527	P03346	Q9HB71	0.74225
64528	P03346	Q96QU4	0.32217
64529	P03346	Q8N1W2	0.31436
64530	P03346	Q9H9E1	0.46253
64531	P03346	P25791	0.56684
64532	P03346	Q14694	0.2755
64533	P03346	Q96DT7	0.34395
64534	P03346	Q14847	0.24749
64535	P03346	Q8IYX0	0.31436
64536	P03346	Q9Y6Y0	0.71184
64537	P03346	Q8TBC3	0.3559
64538	P03346	Q6PI47	0.3559
64539	P03346	P08133	0.86043
64540	P03346	Q9BW71	0.92446
64541	P03346	Q12968	0.86955
64542	P03346	Q86V81	1.0104
64543	P03346	O43513	1.3586
64544	P03346	O75843	0.79291
64545	P03346	P11171	0.60687
64546	P03346	P31275	0.47959
64547	P03346	Q9NXB0	0.55633
64548	P03346	O14980	0.99933
64549	P03346	Q8N5Q1	0.15847
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64552	P03346	Q8IWE2	0.20041
64553	P03346	Q9NVX0	1.0192
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64555	P03346	O76041	0.39195
64556	P03346	Q8NHY6	0.31436
64557	P03346	Q8WWY6	0.74266
64558	P03346	P30154	0.64032
64559	P03346	A1L443	0.13835
64560	P03346	Q9Y295	0.38451
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64564	P03346	P48444	0.64186
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64566	P03346	Q04695	0.6272
64567	P03346	Q96IZ0	0.93292
64568	P03346	Q96DE5	0.78189
64569	P03346	Q9BRJ7	0.19151
64570	P03346	Q14978	0.55489
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64572	P03346	Q96CV9	0.69102
64573	P03346	Q9NSB2	0.45278
64574	P03346	Q9BRH9	0.31436
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64577	P03346	P31350	0.41787
64578	P03346	Q66GS9	0.54506
64579	P03346	P51116	0.90296
64580	P03346	Q13166	0.12821
64581	P03346	Q9Y6Q2	0.17721
64582	P03346	Q9Y221	1.0659
64583	P03346	Q9BPZ2	0.38912
64584	P03346	Q9Y285	0.42426
64585	P03346	O60508	0.66701
64586	P03346	Q9Y224	1.5799
64587	P03346	Q9HCS4	0.40583
64588	P03346	P49419	0.69827
64589	P03346	Q8TCE9	0.29604
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64592	P03346	Q9BUT9	0.14751
64593	P03346	Q3LI81	0.36736
64594	P03346	P20340	0.25176
64595	P03346	Q96AA8	0.1222
64596	P03346	P43897	0.29557
64597	P03346	Q9BYV9	0.72849
64598	P03346	Q8WUU5	0.50432
64599	P03346	P50479	0.4708
64600	P03346	A7E2V4	0.18508

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64602	P03346	O75665	0.8202
64603	P03346	Q92973	1.2454
64604	P03346	Q9ULW0	0.88417
64605	P03346	Q8NEJ9	0.14793
64606	P03346	Q9H8T0	0.60863
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64608	P03346	P10144	0.5244
64609	P03346	P10242	1.1363
64610	P03346	Q9NTK5	0.54635
64611	P03346	Q96D15	0.52803
64612	P03346	P08865	0.77937
64613	P03346	O60481	0.64743
64614	P03346	Q9UI15	0.31193
64615	P03346	Q9UIS9	0.73489
64616	P03346	Q6ZN11	0.31436
64617	P03346	Q9Y237	0.52498
64618	P03346	Q5VTA0	0.13291
64619	P03346	P17661	0.64018
64620	P03346	O95231	0.44258
64621	P03346	Q8IVT2	0.060929
64622	P03346	A6NDE4	0.35549
64623	P03346	Q8IXF0	0.60186
64624	P03346	Q9C0J9	0.36662
64625	P03346	Q8N3R9	0.35052
64626	P03346	Q8NB15	0.31436
64627	P03346	P02511	0.4092
64628	P03346	P51784	0.44991
64629	P03346	Q6ECI4	0.4412
64630	P03346	Q15436	0.79968
64631	P03346	P61236	0.48532
64632	P03346	Q9UNY5	0.34285
64633	P03346	Q9H175	1.3844
64634	P03346	Q4LEZ3	0.11085
64635	P03346	Q8IYM9	0.25665
64636	P03346	Q8WXE0	0.22802
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64638	P03346	Q9Y3E7	0.90636
64639	P03346	Q9UK76	0.32217
64640	P03346	Q7LG56	0.28167
64641	P03346	Q6ZW54	0.079753
64642	P03346	Q8WXE9	0.77418
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64644	P03346	Q496M5	0.34337
64645	P03346	A9UHW6	1.0857
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64647	P03346	Q8N140	1.1421
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64649	P03346	Q6L8G4	0.40421
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64652	P03346	O14556	0.4887
64653	P03346	Q96EA4	0.81999
64654	P03346	Q96L21	0.46101
64655	P03346	Q9Y2P8	0.38528
64656	P03346	Q8NDT2	1.0366
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64658	P03346	P13984	0.68238
64659	P03346	P56945	0.62757
64660	P03346	Q8N1G0	0.4412
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64662	P03346	Q13609	0.17275
64663	P03346	Q9H7R5	0.31436
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64667	P03346	O43541	0.72044
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64674	P03346	Q96TA1	0.58613
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64699	P03346	Q86XN7	0.0077221
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64701	P03346	Q8NEU8	0.63201
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64712	P03346	Q9NX24	0.37863
64713	P03346	P63162	0.99913
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64715	P03346	Q6VUC0	0.77894
64716	P03346	Q96QG7	0.55606
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64718	P03346	Q9BVC5	0.059131
64719	P03346	Q9UL33	0.26839
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64721	P03346	Q96S59	1.1246
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64723	P03346	Q8WXW3	0.17073
64724	P03346	Q9UL36	0.28998
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64727	P03346	Q5JT82	0.28835
64728	P03346	Q8IW35	1.3644
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64759	P03346	O14641	0.68532
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64768	P03346	Q9BR84	0.31436
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64889	P03346	O43633	0.30224
64890	P03346	Q9Y4Z0	0.97219
64891	P03346	Q86VE0	0.93666
64892	P03346	Q9UJV8	0.29934
64893	P03346	O75529	0.83192
64894	P03346	Q9UBL0	0.33333
64895	P03346	O94818	0.4493
64896	P03346	Q7Z4W3	0.36736
64897	P03346	Q96MW1	0.0077221
64898	P03346	Q8N4M7	0.19
64899	P03346	P31483	0.55433
64900	P03346	Q9Y4R8	0.48613
64901	P03346	Q9Y3A3	0.76083
64902	P03346	P46060	0.37212
64903	P03346	O15315	0.39407
64904	P03346	P35080	0.59986

64905	P03346	Q9NYJ8	0.50485
64906	P03346	Q9HCG8	0.59442
64907	P03346	Q6QNY1	0.87709
64908	P03346	Q9NWB7	0.87532
64909	P03346	Q8NEM7	0.62791
64910	P03346	Q8N3S3	0.66325
64911	P03346	P16415	0.31436
64912	P03346	Q02556	0.65361
64913	P03346	Q15021	0.97005
64914	P03346	Q05877	0.080197
64915	P03346	Q9NZQ3	0.96012
64916	P03346	Q4W5G0	0.31623
64917	P03346	P60370	0.40421
64918	P03346	Q8N5J2	0.080918
64919	P03346	Q6AW86	0.31436
64920	P03346	Q9H7X3	0.31436
64921	P03346	A8MUX0	0.40421
64922	P03346	O60479	0.37795
64923	P03346	Q96N22	0.31436
64924	P03346	Q9UJX5	0.85075
64925	P03346	Q9UD71	0.052172
64926	P03346	Q15361	0.99331
64927	P03346	Q9NQZ8	0.30845
64928	P03346	Q8N5Z5	0.30072
64929	P03346	Q8IWy8	0.34285
64930	P03346	Q3LI73	0.36736
64931	P03346	Q68EA5	0.31436
64932	P03346	O95948	0.62342
64933	P03346	Q9UDV6	0.81093
64934	P03346	Q92599	0.23173
64935	P03346	Q9P2J5	0.4524
64936	P03346	P62380	0.41826
64937	P03346	P22531	0.74223
64938	P03346	Q6P2C8	1.1347
64939	P03346	Q9HD26	1.0444
64940	P03346	Q9H5J4	0.35216
64941	P03346	P41134	0.48086
64942	P03346	Q59GR2	0.66978
64943	P03346	Q9BYG5	0.79039
64944	P03346	Q33E94	1.198
64945	P03346	Q86UA1	0.26735
64946	P03346	Q15022	0.73486
64947	P03346	Q96HT8	0.25054
64948	P03346	Q9P2R6	1.1228
64949	P03346	O43790	0.56559
64950	P03346	Q5TBC7	0.4896
64951	P03346	Q9H4I2	0.89915
64952	P03346	Q03924	0.30845
64953	P03346	Q5T752	0.2355
64954	P03346	P59037	0.10581
64955	P03346	A6NDZ8	0.46683
64956	P03346	Q7Z6E9	0.53622
64957	P03346	Q9P0W5	0.74368
64958	P03346	Q5TAQ9	0.63666
64959	P03346	Q13951	0.93693
64960	P03346	Q9BX82	0.31436
64961	P03346	Q6ZYL4	0.75689
64962	P03346	Q86YP4	0.87127
64963	P03346	P63146	0.1493
64964	P03346	Q9UPV9	0.94187
64965	P03346	Q06730	0.30845
64966	P03346	Q13435	0.6571
64967	P03346	Q99684	0.43103
64968	P03346	Q01831	0.85728
64969	P03346	Q13938	0.24962
64970	P03346	Q9NRP2	0.14441
64971	P03346	Q9Y296	0.52011
64972	P03346	Q9Y587	0.24839
64973	P03346	Q8WVC0	1.1762
64974	P03346	Q7KZF4	0.97495
64975	P03346	Q96SN8	0.56466
64976	P03346	Q96JE7	0.14878
64977	P03346	Q92769	0.40432
64978	P03346	P17031	0.31436
64979	P03346	O95373	1.1332
64980	P03346	Q8N841	0.27099

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64984	P03346	P49720	0.40378
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64986	P03346	Q9Y2G9	0.46111
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64994	P03346	Q6PD74	0.3594
64995	P03346	Q13342	0.81601
64996	P03346	Q14683	0.48208
64997	P03346	Q5VSR9	0.10148
64998	P03346	Q14192	0.67389
64999	P03346	Q2TAM9	0.13835
65000	P03346	O95990	0.30088
65001	P03346	P82914	0.41252
65002	P03346	Q6ZN32	0.71675
65003	P03346	Q9H8G1	0.31436
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65006	P03346	Q96DE0	0.44741
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65009	P03346	Q15019	0.2326
65010	P03346	Q8N2H4	0.15403
65011	P03346	Q9UPQ4	0.31959
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65013	P03346	Q96Q05	0.13265
65014	P03346	Q3LHN1	0.36736
65015	P03346	Q9UKT5	0.621
65016	P03346	Q9BQ87	0.74266
65017	P03346	Q9NWS1	1.2193
65018	P03346	Q9UBU8	0.95039
65019	P03346	Q9HB75	0.89263
65020	P03346	P52435	0.73091
65021	P03346	P11441	0.84523
65022	P03346	Q86WI3	0.63311
65023	P03346	Q9Y2L5	0.32094
65024	P03346	Q6VN20	0.59677
65025	P03346	Q5VZQ5	0.053799
65026	P03346	Q9NUQ3	0.84223
65027	P03346	Q5JNZ3	0.31436
65028	P03346	Q8NA31	0.25443
65029	P03346	O60783	0.40701
65030	P03346	Q9XRX5	0.66787
65031	P03346	Q9BYR4	0.40421
65032	P03346	Q9UBG7	0.49712
65033	P03346	Q9H322	0.12821
65034	P03346	P27815	0.41475
65035	P03346	Q8WWL7	1.1017
65036	P03346	Q8WXI9	0.65781
65037	P03346	Q86UV5	0.29763
65038	P03346	Q969F9	0.22764
65039	P03346	Q9H1D9	0.73301
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65041	P03346	P60368	0.40421
65042	P03346	Q9Y4G6	0.26054
65043	P03346	O00512	1.0328
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65048	P03346	Q04725	1.0784
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65051	P03346	Q7RTS9	0.95027
65052	P03346	Q9NZC7	0.46319
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65054	P03346	Q8WUA4	0.42193
65055	P03346	Q9BQN1	0.075667
65056	P03346	O14879	0.80924

65057	P03346	Q9UNE7	0.37396
65058	P03346	Q8N4J0	0.025326
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65061	P03346	Q9Y248	0.95893
65062	P03346	P48728	0.21649
65063	P03346	P42704	1.2463
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65066	P03346	P23490	0.95077
65067	P03346	Q9UHK0	0.51461
65068	P03346	Q3KP31	0.31436
65069	P03346	Q8NOV3	0.17914
65070	P03346	O60220	0.11808
65071	P03346	Q8WU39	0.25534
65072	P03346	O15499	0.63102
65073	P03346	Q9UGK3	0.91889
65074	P03346	Q6ZN79	0.31436
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65076	P03346	O95076	0.38874
65077	P03346	Q9Y2N7	0.78081
65078	P03346	Q9HCU9	1.3494
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65080	P03346	Q9Y512	0.32318
65081	P03346	Q9UNN4	0.75009
65082	P03346	Q9Y6J0	0.36983
65083	P03346	Q9H4M3	0.58358
65084	P03346	P36873	0.6571
65085	P03346	Q8IXT2	0.43276
65086	P03346	O75569	0.31196
65087	P03346	Q14146	0.48532
65088	P03346	O60264	0.31372
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65090	P03346	Q9P1Z2	1.0032
65091	P03346	Q5T6M2	0.10349
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65093	P03346	Q8TCS8	0.2012
65094	P03346	P58107	0.27094
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65096	P03346	P13051	0.33296
65097	P03346	O95817	0.67114
65098	P03346	Q9BUW7	0.12821
65099	P03346	Q16891	0.20834
65100	P03346	Q8N5I3	0.25994
65101	P03346	Q9H939	0.23336
65102	P03346	Q8WZA9	0.0077221
65103	P03346	O00762	0.56657
65104	P03346	O75541	0.31436
65105	P03346	Q96CW1	0.5959
65106	P03346	Q9H668	0.51244
65107	P03346	Q6ZP65	0.30372
65108	P03346	Q03112	0.36578
65109	P03346	Q6NUP7	0.72599
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65112	P03346	P61513	0.59853
65113	P03346	Q96E11	0.21106
65114	P03346	O75373	0.31436
65115	P03346	Q8IXQ6	1.0622
65116	P03346	P08651	0.66867
65117	P03346	Q14008	0.92913
65118	P03346	Q5TG92	0.012593
65119	P03346	P17041	0.31436
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65121	P03346	Q9C0C7	0.4239
65122	P03346	Q9HBF5	0.039786
65123	P03346	O43491	0.35822
65124	P03346	Q6STE5	0.82264
65125	P03346	Q8NAX2	0.0077221
65126	P03346	O43324	1.3173
65127	P03346	P51587	0.23049
65128	P03346	Q8IXP5	0.0077221
65129	P03346	P0C7V6	0.061177
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65131	P03346	O95721	0.56735
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65134	P03346	Q9GZN1	0.18249
65135	P03346	Q6NSW5	0.19818
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65137	P03346	Q8N4S0	0.0077221
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65140	P03346	Q9NZE8	0.35035
65141	P03346	Q96G23	0.51611
65142	P03346	Q92558	0.59556
65143	P03346	P20585	0.19391
65144	P03346	Q6P2E9	1.1929
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65153	P03346	A1L168	0.0077221
65154	P03346	Q9NWZ8	1.0928
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65156	P03346	P40425	0.97006
65157	P03346	Q96MC4	0.067335
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65164	P03346	Q9P2B7	0.0077221
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65170	P03346	Q08ER8	0.31436
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65276	P03346	Q8IWT3	0.24366
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65333	P03346	Q9Y2L1	0.66168
65334	P03346	Q96JB5	0.61409
65335	P03346	Q6NXS1	0.073337
65336	P03346	Q9NY61	0.98945
65337	P03346	Q15121	0.75338
65338	P03346	Q96K30	0.99731
65339	P03346	Q9Y5B9	0.42681
65340	P03346	O95886	0.3359
65341	P03346	P09629	1.2421
65342	P03346	P33992	0.42117
65343	P03346	Q8IZS6	0.23523
65344	P03346	Q7Z4Q2	0.036882
65345	P03346	Q92837	0.21446
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65347	P03346	Q6ZU35	0.0077221
65348	P03346	Q8NG50	0.38125
65349	P03346	Q9Y6X8	0.81001
65350	P03346	P36404	0.24723
65351	P03346	Q96IR3	0.065238
65352	P03346	Q9H492	0.4114
65353	P03346	O95361	0.27752
65354	P03346	Q9GZN7	0.22617
65355	P03346	A6NNF4	0.31436
65356	P03346	P51825	1.309
65357	P03346	Q9NWX4	0.32217
65358	P03346	P14324	0.35454
65359	P03346	P84550	0.24612
65360	P03346	Q15744	0.56888

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65362	P03346	P61580	0.32217
65363	P03346	Q9Y247	0.32217
65364	P03346	Q9BTV5	0.58987
65365	P03346	Q9H7S9	0.75794
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65368	P03346	P22532	0.1267
65369	P03346	Q7L2H7	0.82729
65370	P03346	Q8N2H9	0.12252
65371	P03346	Q8IYX7	0.16921
65372	P03346	Q53EZ4	0.76841
65373	P03346	Q7L1V2	0.66787
65374	P03346	O75818	0.49469
65375	P03346	O14907	0.67472
65376	P03346	Q5JSH3	0.30491
65377	P03346	Q5VWQ0	0.32217
65378	P03346	Q8NA42	0.4754
65379	P03346	Q9BXL5	0.6919
65380	P03346	Q9NQS7	0.9042
65381	P03346	Q9NQ50	0.61579
65382	P03346	Q6MZN7	0.019993
65383	P03346	Q9H446	0.66787
65384	P03346	Q02952	0.30406
65385	P03346	Q8NB12	0.51268
65386	P03346	Q5XUX1	0.66787
65387	P03346	Q9NQ31	0.92853
65388	P03346	Q8TC05	0.37546
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65395	P03346	Q96N95	0.48931
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65397	P03346	P46109	0.37464
65398	P03346	A6NGY1	0.32217
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65400	P03346	Q5D1E8	0.63489
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65402	P03346	P49366	0.62089
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65406	P03346	O14896	0.77539
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65413	P03346	Q8TD16	0.50545
65414	P03346	Q3KQU3	0.23361
65415	P03346	O95049	0.73371
65416	P03346	O75604	0.43131
65417	P03346	Q96QA5	0.30036
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65423	P03346	O15205	0.7252
65424	P03346	O75683	0.53714
65425	P03346	P61247	1.1213
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65431	P03346	O00231	0.44437
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65441	P03346	Q14240	0.25895
65442	P03346	P54136	0.79974
65443	P03346	A6NNL0	0.083147
65444	P03346	Q2LD37	0.40841
65445	P03346	Q66PJ3	0.96112
65446	P03346	Q13415	0.4432
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65448	P03346	Q16543	0.63651
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65454	P03346	Q9Y2G4	0.41753
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65457	P03346	P49770	0.37562
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65459	P03346	A6NFL8	0.028905
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65463	P03346	Q96RS0	0.70992
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65466	P03346	Q8TEQ6	1.0199
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65468	P03346	Q9Y614	0.18601
65469	P03346	Q7L592	0.17342
65470	P03346	Q9NVR7	0.18714
65471	P03346	P48200	0.56494
65472	P03346	Q14533	1.0488
65473	P03346	A6NIX2	1.037
65474	P03346	Q96LL4	0.66787
65475	P03346	Q96E14	0.40655
65476	P03346	Q9HCM7	0.0055265
65477	P03346	Q9Y6X3	1.1327
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65481	P03346	Q8IZU1	0.48532
65482	P03346	Q9BWH6	0.25646
65483	P03346	Q96B49	0.15427
65484	P03346	Q8TE02	1.4673
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65486	P03346	Q9P2M1	0.8379
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65506	P03346	Q9NR77	0.35966
65507	P03346	Q9BU19	0.31436
65508	P03346	A6NP61	0.20041
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65564	P03346	Q9BRG1	1.3092
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65588	P03346	Q9HB03	0.087632

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65779	P03346	Q8N831	0.22545
65780	P03346	Q96QF7	0.32217
65781	P03346	Q8NFC6	0.0507
65782	P03346	P50914	1.0108
65783	P03346	Q9H875	0.33497
65784	P03346	Q9H5J0	0.31436
65785	P03346	Q9NWB6	0.74266
65786	P03346	P78317	0.65393
65787	P03346	O14979	0.391
65788	P03346	P49959	0.30035
65789	P03346	O95718	0.28696
65790	P03346	O60763	0.62942
65791	P03346	Q8N9Z0	0.31436
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65793	P03346	Q9Y468	0.88888
65794	P03346	Q969Q6	0.52335
65795	P03346	Q2YD98	0.40434
65796	P03346	Q06416	0.71675
65797	P03346	O14593	1.0084
65798	P03346	P78367	0.36891
65799	P03346	O94811	0.58679
65800	P03346	Q3MIV0	0.36736
65801	P03346	Q8WUF5	1.063
65802	P03346	O60281	0.45677
65803	P03346	Q8N157	0.27372
65804	P03346	O75920	0.15351
65805	P03346	Q9C0C2	0.34292
65806	P03346	P0CG13	0.29909
65807	P03346	Q96EK5	0.52556
65808	P03346	O95996	0.45792
65809	P03346	Q6P9B6	0.66787
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65814	P03346	P50453	0.75088
65815	P03346	Q3B820	0.48687
65816	P03346	Q14653	0.65395

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65820	P03346	Q8NCF5	0.81924
65821	P03346	F78411	0.43749
65822	P03346	Q8TD35	0.0077221
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65824	P03346	Q9BWT1	0.7111
65825	P03346	Q96JM3	0.44493
65826	P03346	Q9HB96	1.0466
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65829	P03346	Q9H410	0.99979
65830	P03346	Q9NX08	0.66787
65831	P03346	Q14181	0.33792
65832	P03346	Q9H707	0.31436
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65834	P03346	Q8IYW5	0.32314
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65840	P03346	Q5VTD9	0.45717
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65842	P03346	P42695	0.52439
65843	P03346	Q14190	0.26073
65844	P03346	Q8IUR0	0.18583
65845	P03346	Q96EG3	0.31436
65846	P03346	Q6VVB1	0.50732
65847	P03346	Q14684	0.44941
65848	P03346	Q9UBS8	0.73314
65849	P03346	P62166	0.39623
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65851	P03346	Q6GYQ0	0.28067
65852	P03346	P49589	0.38109
65853	P03346	Q9HCD5	1.3712
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65859	P03346	O43708	0.53393
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65868	P03346	P35713	0.28929
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65870	P03346	Q96T58	0.8831
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65874	P03346	Q2NL82	0.51869
65875	P03346	Q5SRH9	0.12821
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65877	P03346	Q96NU1	0.32217
65878	P03346	O75132	0.52804
65879	P03346	O75469	0.31981
65880	P03346	Q16829	0.37367
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65885	P03346	Q9NQ03	0.34115
65886	P03346	Q9UQN3	0.65854
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65900	P03346	Q99459	1.5088
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65908	P03346	Q95486	0.52905
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65915	P03346	P60328	0.40421
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65920	P03346	Q9UNM6	0.22847
65921	P03346	Q5T5B0	0.02884
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65923	P03346	Q92994	0.45384
65924	P03346	Q6PJ61	0.66787
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65927	P03346	Q8NFW9	0.4059
65928	P03346	Q9HAP6	0.23544
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65930	P03346	Q6P2Q9	0.93858
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65937	P03346	P61981	0.70075
65938	P03346	A5PL33	0.12821
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65959	P03346	Q9NUP7	0.06216
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65962	P03346	Q8TAP9	1.5184
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65966	P03346	Q8IYL3	0.32217
65967	P03346	P08670	0.31964
65968	P03346	Q9BX70	0.86075

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65972	P03346	Q8NDF8	0.52723
65973	P03346	Q14562	0.36366
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65983	P03346	O75822	0.91246
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65987	P03346	O75909	1.2467
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65992	P03346	Q5TCM9	0.02884
65993	P03346	Q8IX90	0.72046
65994	P03346	Q8WX92	1.4879
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65996	P03346	D6RB28	0.015632
65997	P03346	P28749	1.3799
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66022	P03346	Q9BYD6	0.32361
66023	P03346	Q8N371	0.44164
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66028	P03346	Q9NUU7	0.26513
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66031	P03346	Q14397	0.78423
66032	P03346	Q3BBV0	0.20041
66033	P03346	Q96RK1	0.92395
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66035	P03346	Q9P1Q0	0.68918
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66038	P03346	Q9H944	1.2699
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66040	P03346	Q8ND90	0.94807
66041	P03346	Q92797	0.94878
66042	P03346	Q13867	0.55126
66043	P03346	Q03252	0.59439
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66050	P03346	P17017	0.31436
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66054	P03346	Q7RTS7	0.51027
66055	P03346	Q9Y3D3	0.88505
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66059	P03346	Q9ULV0	0.24197
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66094	P03346	Q15233	0.94143
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66227	P03346	A2IDD5	0.21672
66228	P03346	P32519	1.6144
66229	P03346	Q9HCH0	0.14064
66230	P03346	P49450	0.42499
66231	P03346	Q3ZCQ8	0.34092
66232	P03346	Q9NYV6	0.69649
66233	P03346	O75437	0.34395
66234	P03346	Q9BTY7	0.12821
66235	P03346	P55347	0.74632
66236	P03346	P14678	1.0328
66237	P03346	P62910	0.6799
66238	P03346	A6NDV4	0.35024
66239	P03346	P0CG47	0.35767
66240	P03346	Q9HC62	0.69326
66241	P03346	Q8NEK8	0.052605
66242	P03346	Q8TDR0	0.80517
66243	P03346	Q99996	0.71346
66244	P03346	O95394	0.13138
66245	P03346	Q17R98	0.31436
66246	P03346	Q13409	0.51366
66247	P03346	P04053	0.43196
66248	P03346	Q9H1E3	0.32217
66249	P03346	A6NCC3	0.11048
66250	P03346	Q9H0S4	0.32838
66251	P03346	P01858	0.047063
66252	P03346	P0C7V5	0.31436
66253	P03346	P35900	1.0521
66254	P03346	Q9UQ84	0.39528
66255	P03346	P07195	0.16748
66256	P03346	Q9H9Q4	0.72505
66257	P03346	Q96KS0	0.24846
66258	P03346	Q92832	0.39139
66259	P03346	Q15435	0.4155
66260	P03346	Q9BQS6	1.1048
66261	P03346	I6L9F6	0.47854
66262	P03346	Q13619	0.55412
66263	P03346	Q96PY6	0.27614
66264	P03346	Q13569	0.64702
66265	P03346	Q92922	1.2144
66266	P03346	O75251	0.21111
66267	P03346	Q8IYX3	0.12695
66268	P03346	P42568	1.1623
66269	P03346	Q96DB5	0.46677
66270	P03346	Q96PG8	0.17333
66271	P03346	Q14244	0.055101
66272	P03346	A6NHQ4	0.023698

66273	P03346	Q8I WV8	0.33858
66274	P03346	Q14734	0.20715
66275	P03346	Q9NYP3	0.20089
66276	P03346	A1A580	0.36736
66277	P03346	P45985	0.27429
66278	P03346	Q6P387	0.65405
66279	P03346	Q6P2D0	0.31436
66280	P03346	Q96C74	0.57651
66281	P03346	P36578	1.0488
66282	P03346	O95218	0.80681
66283	P03346	Q86W56	0.80221
66284	P03346	Q14106	0.38076
66285	P03346	Q5W0V3	0.017038
66286	P03346	Q9BY43	0.14965
66287	P03346	Q96NB3	0.60097
66288	P03346	Q9BZK7	1.0935
66289	P03346	P35754	0.50462
66290	P03346	Q969F2	0.29808
66291	P03346	Q92783	0.81157
66292	P03346	Q99623	1.2753
66293	P03346	Q5JVX7	0.02804
66294	P03346	Q6IN84	0.19189
66295	P03346	Q14771	0.34285
66296	P03346	O75638	0.19728
66297	P03346	Q9Y244	0.54629
66298	P03346	Q9UGN5	0.46087
66299	P03346	Q96CB8	0.67648
66300	P03346	Q5T0Z8	0.0077221
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66304	P03346	Q9Y6G5	0.66787
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66306	P03346	Q14596	0.32128
66307	P03346	Q8TDR4	0.32217
66308	P03346	Q9UBU9	0.69508
66309	P03346	Q13367	0.67465
66310	P03346	Q96SL8	0.39235
66311	P03346	P49006	0.12296
66312	P03346	Q8N814	0.055005
66313	P03346	Q8NEY8	0.6297
66314	P03346	Q8WYR4	0.61268
66315	P03346	Q9BRT2	0.61267
66316	P03346	P48539	0.44411
66317	P03346	Q8NHQ1	1.469
66318	P03346	Q5TKA1	0.62667
66319	P03346	O95271	0.54218
66320	P03346	Q12789	1.064
66321	P03346	O95243	0.86779
66322	P03346	Q6GPH4	0.49391
66323	P03346	Q9H6F5	0.55384
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66326	P03346	P26371	0.38044
66327	P03346	Q69YI7	0.39398
66328	P03346	Q6U7Q0	0.4754
66329	P03346	Q96IU2	0.23735
66330	P03346	B2RXH2	0.21292
66331	P03346	O75461	0.62713
66332	P03346	Q9NP79	0.51423
66333	P03346	P62328	0.58279
66334	P03346	Q9UKG1	0.55614
66335	P03346	P54725	0.76627
66336	P03346	Q717R9	0.27738
66337	P03346	O60925	0.30528
66338	P03346	P54278	0.54561
66339	P03346	Q8NAP1	0.0077221
66340	P03346	Q7Z3Y7	0.61016
66341	P03346	Q9NYZ3	0.19307
66342	P03346	Q9HB09	0.055233
66343	P03346	P41970	1.1327
66344	P03346	Q13416	0.72501
66345	P03346	Q96JS3	0.58833
66346	P03346	P62508	0.65402
66347	P03346	Q86TS9	0.54515
66348	P03346	P19474	0.57626

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66350	P03346	Q9HB58	0.48704
66351	P03346	A8CG34	0.6157
66352	P03346	P10828	0.64601
66353	P03346	Q9BYJ9	0.0010721
66354	P03346	Q8TDN6	0.56035
66355	P03346	Q5VZ66	0.1222
66356	P03346	Q9UGL1	0.25338
66357	P03346	Q9UBR4	0.31095
66358	P03346	Q6NVH7	0.83782
66359	P03346	Q8NBC4	0.20041
66360	P03346	P48634	1.1405
66361	P03346	Q86XF7	0.31436
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66363	P03346	Q8NE71	0.47874
66364	P03346	Q15047	0.81509
66365	P03346	O60422	0.67877
66366	P03346	P34949	0.18478
66367	P03346	Q9HBT7	0.31204
66368	P03346	Q5TA78	0.02884
66369	P03346	A8MTQ0	0.4313
66370	P03346	P0C5Y4	0.40421
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66372	P03346	Q8NAP3	0.57801
66373	P03346	Q0VDD7	0.51264
66374	P03346	P10768	0.41166
66375	P03346	Q16548	0.8444
66376	P03346	Q8N8A2	0.66787
66377	P03346	O15015	0.85529
66378	P03346	Q9NSJ1	0.31436
66379	P03346	P52292	1.0985
66380	P03346	Q8TF50	0.31436
66381	P03346	Q14933	0.46057
66382	P03346	Q15700	0.38166
66383	P03346	Q6ULP2	0.84706
66384	P03346	P13647	1.001
66385	P03346	Q14999	1.1162
66386	P03346	P26196	0.64969
66387	P03346	Q9BRJ2	0.55572
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66390	P03346	P56589	0.163
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66392	P03346	P51858	0.24639
66393	P03346	Q9H9C1	0.79007
66394	P03346	O43763	0.5181
66395	P03346	Q86WC6	0.5452
66396	P03346	P82675	0.33708
66397	P03346	Q9Y2K1	0.31436
66398	P03346	Q5VSL9	1.0511
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66405	P03346	Q5HYK7	1.2695
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66407	P03346	Q99550	0.54928
66408	P03346	Q9H974	0.1503
66409	P03346	Q15388	0.30013
66410	P03346	Q9Y4U1	0.12178
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66424	P03346	Q9UND3	0.5886

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66438	P03346	Q8N0T1	0.02781
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66443	P03346	Q9BXW4	0.46979
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66465	P03346	Q9NX53	0.66787
66466	P03346	Q8WWR8	0.26785
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66472	P03346	Q96NM4	0.70946
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66474	P03346	Q8N7G0	0.71675
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66496	P03346	Q6PF06	0.021644
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66506	P03346	P28370	0.61914
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66511	P03346	Q7Z2E3	0.49582
66512	P03346	Q96C01	0.32015
66513	P03346	Q16658	0.33737
66514	P03346	O94992	1.3434
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66519	P03346	Q9UI56	0.27641
66520	P03346	P35232	0.699
66521	P03346	Q9H1Y0	0.54507
66522	P03346	Q5SZD4	0.053628
66523	P03346	Q96MH2	1.446
66524	P03346	Q13200	0.48035
66525	P03346	Q86X55	0.72159
66526	P03346	Q8NEY3	0.17139
66527	P03346	Q8WWK9	0.43711
66528	P03346	P48556	0.38543
66529	P03346	P61968	0.30511
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66532	P03346	P40424	0.80012
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66534	P03346	Q9ULT8	0.305
66535	P03346	Q9HC24	0.20468
66536	P03346	Q9C002	0.42864
66537	P03346	Q12788	0.36522
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66539	P03346	Q96QE5	1.0349
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66548	P03346	Q6PI48	0.63265
66549	P03346	Q9BVC3	0.85526
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66551	P03346	Q96GJ1	0.13477
66552	P03346	A6NDX5	0.31436
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66556	P03346	Q6P4R8	1.3538
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66561	P03346	Q01196	0.43708
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66616	P03346	Q8NDN9	0.89584
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66630	P03346	Q9H2K0	0.17581
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66635	P03346	Q00534	0.56537
66636	P03346	Q6L8H2	0.40421
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66639	P03346	O95487	0.8356
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66656	P03346	P24855	0.30633
66657	P03346	Q6ZSR3	0.14441
66658	P03346	Q2M3X9	0.31436
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66660	P03346	Q15270	0.5808
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66662	P03346	Q8NAV1	0.38557
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66665	P03346	Q9P2D1	0.26185
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66667	P03346	Q9Y5A6	0.82065
66668	P03346	Q9NWS8	0.14441
66669	P03346	P0CG35	0.18695
66670	P03346	Q5JPI3	0.055233
66671	P03346	Q9BTX9	0.15271
66672	P03346	Q8TCE6	0.19481
66673	P03346	P07199	0.52944
66674	P03346	O14617	0.23907
66675	P03346	P09913	0.69779
66676	P03346	Q8IXT1	0.4235
66677	P03346	Q7L5Y6	0.32217
66678	P03346	O75360	0.7066
66679	P03346	O43812	0.72697
66680	P03346	Q92616	0.3636
66681	P03346	Q7L0Y3	1.1085
66682	P03346	P25063	0.039856
66683	P03346	P31314	0.93467
66684	P03346	A8MTY0	0.31436
66685	P03346	Q96FW1	0.23854
66686	P03346	Q92917	1.0438
66687	P03346	Q96LX8	0.31436
66688	P03346	Q9UI14	0.21314
66689	P03346	Q7Z460	0.42227
66690	P03346	Q92845	0.38798
66691	P03346	Q05086	0.4864
66692	P03346	Q9UFB7	0.31436
66693	P03346	Q9UDY4	1.0035
66694	P03346	Q6IPU0	0.1652
66695	P03346	O43493	0.52467
66696	P03346	Q9Y232	0.41384
66697	P03346	Q9BQ83	0.72247
66698	P03346	Q7L945	0.31436
66699	P03346	Q8TBE0	1.0877
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66704	P03346	O94916	0.5586
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66707	P03346	P56545	0.42013
66708	P03346	P51522	0.30845
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66714	P03346	Q8WV28	0.34421
66715	P03346	Q5JR98	0.66787
66716	P03346	P59923	0.34285
66717	P03346	Q5T9C2	0.0077221
66718	P03346	Q15424	1.016
66719	P03346	Q9Y651	0.59394
66720	P03346	Q9NYJ1	0.057305
66721	P03346	Q9H489	0.22545
66722	P03346	Q96CX2	0.18903
66723	P03346	Q9UHD8	0.24999
66724	P03346	Q7Z392	0.23882
66725	P03346	P51513	0.28426
66726	P03346	P24928	0.85663
66727	P03346	Q9H5V7	0.31436
66728	P03346	P62140	0.71421

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66730	P03346	P38432	0.95164
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66736	P03346	Q96NL3	0.31436
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66738	P03346	Q14160	0.61616
66739	P03346	Q9GZZ1	0.70063
66740	P03346	O14920	0.54928
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66743	P03346	P62256	0.20741
66744	P03346	Q8WW33	0.13077
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66746	P03346	Q9C0C6	0.08035
66747	P03346	Q8TES7	0.81803
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66749	P03346	Q9NX63	1.0049
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66753	P03346	Q7LBR1	1.105
66754	P03346	P54253	1.1797
66755	P03346	Q9HCL3	0.31436
66756	P03346	Q5TC79	0.31436
66757	P03346	Q8TDB6	0.57737
66758	P03346	Q70J99	0.25724
66759	P03346	Q7Z3K6	0.94236
66760	P03346	Q9H0M0	0.27712
66761	P03346	Q6P9F0	0.50445
66762	P03346	P0C7X5	0.31436
66763	P03346	Q02040	0.59792
66764	P03346	Q96IT1	0.78038
66765	P03346	P61457	1.1744
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66768	P03346	Q9NPI8	1.0354
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66770	P03346	Q9BYK8	0.51927
66771	P03346	Q96NT1	0.22545
66772	P03346	Q6ZSJ8	0.0077221
66773	P03346	Q9HAF1	1.2201
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66775	P03346	Q9H8M7	1.0503
66776	P03346	Q8IZD4	1.0983
66777	P03346	Q5TAB7	0.081068
66778	P03346	Q9Y2Y0	1.0961
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66780	P03346	Q8WUN7	0.65405
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66787	P03346	Q9NRA8	1.3506
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66793	P03346	Q9Y6P5	0.22881
66794	P03346	Q8TD10	0.32217
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66796	P03346	Q96JN8	0.27763
66797	P03346	Q9NWT6	0.44005
66798	P03346	Q8N5H3	0.0077221
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66803	P03346	O15182	0.49065
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66806	P03346	Q96IS3	0.57491
66807	P03346	Q6RW13	0.031012
66808	P03346	Q9UBW8	0.64501
66809	P03346	Q9UNS2	0.90362
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66811	P03346	Q9Y6I3	0.21086
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66814	P03346	Q9Y6X4	0.19349
66815	P03346	Q9Y2X9	0.75995
66816	P03346	Q06265	0.19904
66817	P03346	Q96EN9	0.66787
66818	P03346	Q6GQQ9	0.25547
66819	P03346	Q96KN3	0.48099
66820	P03346	P29083	1.0608
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66822	P03346	O94782	0.33552
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66825	P03346	Q8NG31	0.70019
66826	P03346	O75334	0.81187
66827	P03346	O15078	0.73846
66828	P03346	Q96GE4	0.36553
66829	P03346	Q9P1T7	1.4038
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66836	P03346	Q16600	0.32754
66837	P03346	P07741	0.37908
66838	P03346	Q9H8V3	0.27662
66839	P03346	P18146	0.75523
66840	P03346	Q86YA3	0.12482
66841	P03346	Q8N998	0.49807
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66846	P03346	Q8TDH9	0.44015
66847	P03346	Q9UFF9	0.7333
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66849	P03346	Q9Y2G2	0.69306
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66852	P03346	Q8N782	0.31436
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66858	P03346	P43268	0.74884
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66861	P03346	Q5TCZ1	0.45894
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67111	P03346	Q8NCK3	0.31436
67112	P03346	Q9BZR9	0.38775
67113	P03346	Q9Y2R2	0.34793
67114	P03346	Q6IV72	0.48638
67115	P03346	P10515	0.51892
67116	P03346	P30260	1.1617
67117	P03346	P29558	0.37652
67118	P03346	O43663	0.93454
67119	P03346	Q5VWM1	0.13291
67120	P03346	Q6PI77	0.49807
67121	P03346	P05386	1.1135
67122	P03346	Q86UP8	0.41934
67123	P03346	Q5JTJ3	0.2185
67124	P03346	Q5JRC9	0.017215
67125	P03346	Q86U90	0.03094
67126	P03346	Q16587	0.23445
67127	P03346	Q6P3V2	0.33838
67128	P03346	Q92529	0.4645
67129	P03346	O75152	0.479
67130	P03346	O75419	1.0273
67131	P03346	Q5VWG9	0.91559
67132	P03346	Q6NT76	0.83861
67133	P03346	Q10587	0.64466
67134	P03346	Q5SXM2	0.8976
67135	P03346	Q9UPN7	1.2009
67136	P03346	Q6WQI6	0.20041
67137	P03346	Q9HCE1	0.88075
67138	P03346	Q8IZ26	0.31436
67139	P03346	P61925	0.36995
67140	P03346	Q92900	0.56177
67141	P03346	Q8WXX7	0.12821
67142	P03346	Q04837	0.79744
67143	P03346	O76042	0.11556
67144	P03346	Q86WH2	0.41646
67145	P03346	Q9NYF8	1.423
67146	P03346	Q9Y3B9	0.5858
67147	P03346	Q9NY12	0.36978
67148	P03346	O00401	0.69896
67149	P03346	Q9Y618	1.2331
67150	P03346	O75593	0.28937
67151	P03346	Q9H0N5	0.73968
67152	P03346	Q15173	0.51364
67153	P03346	Q9Y2W1	0.31804
67154	P03346	Q9H816	0.65697
67155	P03346	Q9UIE0	0.31436
67156	P03346	P40222	0.18423
67157	P03346	Q13562	0.32505
67158	P03346	Q969E8	0.60099
67159	P03346	Q99504	0.62102
67160	P03346	Q8N988	0.31436
67161	P03346	Q2VPJ9	0.0077221
67162	P03346	A1L020	0.37032
67163	P03346	Q8TD94	0.31436
67164	P03346	O75928	0.87738
67165	P03346	Q6UWZ7	0.68665
67166	P03346	O75800	0.62778
67167	P03346	Q9P270	0.69267
67168	P03346	O95202	0.13225
67169	P03346	P46527	0.38261
67170	P03346	Q9UL03	0.91461
67171	P03346	Q13395	0.35603
67172	P03346	P52630	0.88323
67173	P03346	Q96FT9	0.22881
67174	P03346	Q9BQI5	0.20578
67175	P03346	Q13394	0.14436
67176	P03346	Q6W349	0.031625
67177	P03346	Q9ULU8	0.33294
67178	P03346	Q330K2	0.43445
67179	P03346	Q8N2M8	0.33682
67180	P03346	Q8NF91	0.63502
67181	P03346	Q9UL16	0.42864
67182	P03346	O15527	0.56466
67183	P03346	Q9UL41	0.33302
67184	P03346	P14672	0.68312

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67186	P03346	Q9UI43	0.40113
67187	P03346	P18077	0.55595
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67189	P03346	Q96GC6	1.1058
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67191	P03346	Q01892	0.74358
67192	P03346	P62952	0.23456
67193	P03346	Q96P15	0.17334
67194	P03346	Q15696	0.52102
67195	P03346	Q14602	0.54347
67196	P03346	P06454	0.71532
67197	P03346	Q9Y2J0	0.24779
67198	P03346	Q6FIF0	0.33968
67199	P03346	Q8N987	0.50336
67200	P03346	P35711	1.1563
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67202	P03346	Q96CA5	0.37182
67203	P03346	P20042	0.64794
67204	P03346	P20810	0.39661
67205	P03346	O94973	0.50288
67206	P03346	Q99865	0.18452
67207	P03346	Q68CP9	0.74747
67208	P03346	Q9H1Z4	0.65405
67209	P03346	Q3LI60	0.36736
67210	P03346	Q9BSG1	0.31436
67211	P03346	P55209	0.92626
67212	P03346	A0AVK6	0.68727
67213	P03346	Q9H3R5	0.68704
67214	P03346	Q9Y2M0	0.52144
67215	P03346	Q9Y2W2	1.0417
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67217	P03346	Q32P51	0.29187
67218	P03346	Q5VWM6	0.13291
67219	P03346	Q9BTC8	0.86432
67220	P03346	O96011	0.18361
67221	P03346	Q96QH2	0.46524
67222	P03346	Q9BZI1	0.58949
67223	P03346	Q49AM1	0.61052
67224	P03346	Q86UB2	0.49807
67225	P03346	Q9NV79	0.19165
67226	P03346	Q16612	0.45074
67227	P03346	O94817	0.76053
67228	P03346	Q8N1I0	0.50949
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67233	P03346	Q96EY5	0.55146
67234	P03346	Q8NG27	0.44961
67235	P03346	Q6AHZ1	0.31436
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67237	P03346	Q7Z2W9	0.33708
67238	P03346	Q9Y4A0	0.25892
67239	P03346	Q99729	0.26624
67240	P03346	Q9Y297	0.30284
67241	P03346	Q9BXX1	0.29735
67242	P03346	Q96I23	0.54911
67243	P03346	Q9UJU3	0.31436
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67246	P03346	Q8N1Q8	0.16423
67247	P03346	Q9Y2B4	0.49129
67248	P03346	Q9BRX2	0.50088
67249	P03346	A8K8P3	0.95975
67250	P03346	Q8NHW3	0.59878
67251	P03346	Q14C87	0.14644
67252	P03346	P32243	0.94204
67253	P03346	Q96B23	0.024567
67254	P03346	Q16204	0.11832
67255	P03346	Q9GZY1	0.49807
67256	P03346	P49901	0.1708
67257	P03346	Q96AJ1	0.96082
67258	P03346	P40937	0.23432
67259	P03346	Q9H3C7	0.14677
67260	P03346	Q99741	0.58297

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67262	P03346	Q68DY9	0.31436
67263	P03346	O43524	0.50519
67264	P03346	Q9Y3B6	0.18725
67265	P03346	Q9UKC9	0.73594
67266	P03346	Q96JN0	0.77046
67267	P03346	A6NF01	0.60441
67268	P03346	Q8IWN7	0.32775
67269	P03346	P06746	0.60529
67270	P03346	Q14677	0.71487
67271	P03346	A6NC98	0.23488
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67273	P03346	Q96CK0	0.31436
67274	P03346	Q969H0	0.75508
67275	P03346	O75386	0.25965
67276	P03346	P24666	0.33226
67277	P03346	Q9UPX8	0.52011
67278	P03346	Q9BRT6	0.00034207
67279	P03346	Q9BQ67	0.65405
67280	P03346	O60543	0.46471
67281	P03346	Q1ZZU3	0.93048
67282	P03346	Q86UP3	0.33644
67283	P03346	A8MSI8	0.1896
67284	P03346	O95059	0.33044
67285	P03346	Q5T0J7	0.25181
67286	P03346	Q9UJN7	0.31436
67287	P03346	Q7L590	1.1267
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67289	P03346	Q8NEA6	0.50181
67290	P03346	P0C2W1	0.24285
67291	P03346	Q9BXH1	0.45536
67292	P03346	Q8N3Z6	0.47403
67293	P03346	O43900	0.4682
67294	P03346	Q8N8D1	0.39362
67295	P03346	P52655	1.1535
67296	P03346	Q96HR8	1.1076
67297	P03346	Q6J272	0.01556
67298	P03346	Q5EBL2	0.30845
67299	P03346	O00110	0.33838
67300	P03346	Q9BVW5	1.062
67301	P03346	Q13765	1.3709
67302	P03346	Q8TAX9	0.20041
67303	P03346	Q01546	0.54448
67304	P03346	Q9NVN8	0.54601
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67306	P03346	Q9H320	0.49645
67307	P03346	Q8TAQ2	1.5206
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67311	P03346	Q3SY56	0.33091
67312	P03346	Q9BRS8	0.31829
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67317	P03346	Q16670	0.35994
67318	P03346	Q9UBZ4	0.20609
67319	P03346	Q9BQ52	0.31289
67320	P03346	Q6NXT1	0.56788
67321	P03346	Q9ULC4	0.67429
67322	P03346	Q9H211	0.94428
67323	P03346	Q9GZY8	0.30849
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67325	P03346	P0C5W0	0.20041
67326	P03346	Q7Z6G3	0.72646
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67329	P03346	Q9NR46	0.71623
67330	P03346	Q6ZN28	0.87917
67331	P03346	Q9UBK9	1.1786
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67339	P03346	Q9NTG7	0.52314
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67343	P03346	Q8TAD8	1.5143
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67345	P03346	Q9Y291	0.55092
67346	P03346	A6NLJ0	0.43496
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67348	P03346	Q6VY07	0.65268
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67350	P03346	Q9Y2H8	0.31436
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67369	P03346	Q3BBW0	0.20041
67370	P03346	Q5BKX8	0.36865
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67377	P03346	Q96H22	0.17882
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67379	P03346	Q9BSN8	0.18405
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67381	P03346	Q9UMX1	0.4294
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67390	P03346	Q6PJT7	1.0436
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67393	P03346	Q86UD0	0.65405
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67398	P03346	Q7Z6Z7	0.53954
67399	P03346	Q9Y615	0.60052
67400	P03346	Q9NYT6	0.31436
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67453	P03346	Q9H7P6	0.11302
67454	P03346	Q96PK6	0.8834
67455	P03346	Q96BD8	0.6813
67456	P03346	Q8TEC5	0.29076
67457	P03346	Q9UIW0	0.36159
67458	P03346	Q6PGQ7	0.81132
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67466	P03346	P53672	0.092431
67467	P03346	Q96DX8	0.3017
67468	P03346	Q6ZNG1	0.31436
67469	P03346	Q9UMQ3	1.0216
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67526	P03346	P56277	0.10843
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67531	P03346	Q9UBF6	0.81607
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67541	P03346	Q14164	0.30386
67542	P03346	Q6UVJ0	0.98715
67543	P03346	Q8TEB1	0.63666
67544	P03346	Q86VP1	0.63554
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67552	P03346	Q96D46	0.88829
67553	P03346	Q5SW79	0.99506
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67557	P03346	P17509	0.47707
67558	P03346	Q9Y586	0.17376
67559	P03346	Q9UQL6	0.45923
67560	P03346	Q13772	0.58291
67561	P03346	Q6ZP82	0.66787
67562	P03346	P62310	1.0209
67563	P03346	Q9UHD4	0.028338
67564	P03346	O15164	0.37534

67565	P03346	Q9BYQ9	0.40421
67566	P03346	P58005	0.28712
67567	P03346	A2BFH1	0.19353
67568	P03346	Q7L5N1	1.2607
67569	P03346	Q6L8H4	0.40421
67570	P03346	Q5XUX0	0.034173
67571	P03346	Q00444	0.65156
67572	P03346	Q8TF46	0.4664
67573	P03346	Q96T37	0.52705
67574	P03346	Q8IWL3	0.68855
67575	P03346	Q96F63	0.0077221
67576	P03346	Q9UK45	1.041
67577	P03346	Q86XP3	0.47172
67578	P03346	O60645	0.75516
67579	P03346	P0C7I6	0.048634
67580	P03346	O75081	1.1779
67581	P03346	Q76N32	0.34234
67582	P03346	Q96MB7	0.46683
67583	P03346	O95633	0.34092
67584	P03346	Q6NV74	0.0077221
67585	P03346	Q96EY1	0.43915
67586	P03346	Q8N9U0	0.32217
67587	P03346	Q9UHV7	0.69619
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67590	P03346	Q9HBF4	0.31343
67591	P03346	Q53EL6	1.2435
67592	P03346	Q9Y6X0	0.29934
67593	P03346	Q9NRD5	0.23874
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67595	P03346	Q00610	0.82094
67596	P03346	P78318	0.52714
67597	P03346	Q9UIH9	0.54622
67598	P03346	O95416	0.77053
67599	P03346	Q9Y3D0	1.1594
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67603	P03346	O95503	1.2145
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67605	P03346	Q9BYQ4	0.40421
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67608	P03346	O14529	0.73135
67609	P03346	Q9Y6K5	0.24713
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67613	P03346	Q52LA3	0.19809
67614	P03346	Q9BTE3	0.81104
67615	P03346	Q9UC07	0.30845
67616	P03346	P0CJ86	0.6797
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67627	P03346	P55055	0.38736
67628	P03346	Q9UK73	0.92374
67629	P03346	A8MZ59	0.66978
67630	P03346	Q9GZS1	0.68412
67631	P03346	Q9UPZ3	0.29049
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67640	P03346	Q5U5X0	0.14441

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67645	P03346	Q96SQ5	0.31436
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67647	P03346	P54259	1.0478
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67651	P03346	Q701N4	0.40421
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67653	P03346	Q6P1J9	0.79092
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67658	P03346	Q8WYK2	0.68065
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67662	P03346	Q5VWK0	0.20041
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67664	P03346	A6H8Y1	1.0205
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67666	P03346	Q9BQ95	1.2521
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67674	P03346	Q9H4Z2	0.85529
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67676	P03346	Q9H8H0	0.48532
67677	P03346	Q13106	0.30845
67678	P03346	Q8IY85	0.5541
67679	P03346	P17024	0.31436
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67683	P03346	Q8TDQ7	0.25359
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67687	P03346	A1L188	0.14441
67688	P03346	Q14549	0.72277
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67707	P03346	Q9UI10	0.48251
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67974	P03346	Q9NP98	0.62885
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68002	P03346	P33316	0.74574
68003	P03346	Q15543	1.1405
68004	P03346	Q9H3L0	0.13297
68005	P03346	Q99581	0.25826
68006	P03346	P0C6E6	0.26013
68007	P03346	Q96GE5	0.31436
68008	P03346	Q9P127	0.32217
68009	P03346	P55771	1.1075
68010	P03346	Q8TF01	0.3708
68011	P03346	A0AUZ9	0.12483
68012	P03346	Q9H1J1	0.79498
68013	P03346	Q5U5Q3	0.25216
68014	P03346	Q9UJU5	0.45725
68015	P03346	P57721	0.85828
68016	P03346	Q9UJM3	0.57196
68017	P03346	Q8NE18	0.19136
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68019	P03346	P63220	0.59745
68020	P03346	Q9NPC6	0.5238

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68023	P03346	Q5TA45	0.4893
68024	P03346	Q03938	0.37791
68025	P03346	O00444	0.28717
68026	P03346	Q15572	0.7635
68027	P03346	Q8N812	0.043421
68028	P03346	Q9H2A3	0.45646
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68030	P03346	Q99732	0.491
68031	P03346	P05198	0.85335
68032	P03346	P52948	0.93278
68033	P03346	Q9Y314	1.1612
68034	P03346	Q9NPC7	0.30845
68035	P03346	Q969T7	0.18902
68036	P03346	Q13617	0.78019
68037	P03346	Q6ZWJ1	0.45619
68038	P03346	Q86TU7	0.4618
68039	P03346	Q92610	0.33565
68040	P03346	Q15819	0.78782
68041	P03346	Q8WV41	0.49918
68042	P03346	Q5H9L2	1.3712
68043	P03346	O43395	1.1346
68044	P03346	P17987	0.25596
68045	P03346	O15162	0.19512
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68047	P03346	Q2NKJ3	0.50945
68048	P03346	Q9Y2Q9	0.37459
68049	P03346	Q9BV73	0.75961
68050	P03346	Q8WU76	0.34188
68051	P03346	P53990	0.79746
68052	P03346	A6NFI3	0.31436
68053	P03346	A6NFF2	0.22545
68054	P03346	P10589	0.49107
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1 [Section 2] Predicted Non-interactions
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8 P0C206 Q8NHP6 -0.66124
9 P0C206 Q8NH85 -1.1763
10 P0C206 A6NGE7 -0.34991
11 P0C206 Q05682 -0.33241
12 P0C206 Q5T5X7 -0.096481
13 P0C206 P01714 -0.9894
14 P0C206 Q6DHY5 -1.2801
15 P0C206 O95467 -0.71165
16 P0C206 P25089 -1.2776
17 P0C206 P17655 -0.25113
18 P0C206 Q5GH73 -0.79503
19 P0C206 A6NCF5 -0.22197
20 P0C206 O75084 -0.48904
21 P0C206 P29992 -0.83873
22 P0C206 P98198 -0.99233
23 P0C206 Q9H6R3 -0.78732
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25 P0C206 P40394 -0.66011
26 P0C206 Q567U6 -0.17453
27 P0C206 A6NET4 -1.1763
28 P0C206 P05162 -0.21707
29 P0C206 P41595 -0.44101
30 P0C206 Q6ZN66 -0.8969
31 P0C206 A8MXB1 -0.937
32 P0C206 Q08722 -0.44745
33 P0C206 Q15661 -0.86059
34 P0C206 Q00532 -0.53984
35 P0C206 Q96P48 -0.22632
36 P0C206 Q6IEU7 -1.1763
37 P0C206 Q8IVG5 -0.074121
38 P0C206 Q9BWW8 -0.77232
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41 P0C206 Q06643 -0.84403
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44 P0C206 A6NCE7 -0.14758
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62 P0C206 Q5MNZ9 -0.22739
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66 P0C206 Q2MKA7 -0.22521
67 P0C206 O95936 -0.51326
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76 P0C206 Q99439 -0.2123
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194	POC206	P22413	-0.30294
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208	POC206	Q8TDS4	-1.019
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395	POC206	P42696	-0.33857
396	POC206	P0C0E4	-0.78256
397	POC206	Q92839	-0.89098
398	POC206	O00339	-0.3419
399	POC206	Q9UH64	-0.17644
400	POC206	P78563	-0.10282
401	POC206	Q8IY37	-0.7415
402	POC206	Q86TW2	-1.3438
403	POC206	G3V0H7	-0.8197
404	POC206	Q93038	-1.2848
405	POC206	Q9HC73	-1.4604
406	POC206	Q8TCZ2	-1.0127
407	POC206	Q6ZW35	-0.047702
408	POC206	P41586	-0.50734
409	POC206	Q96NC0	-0.24357
410	POC206	P35236	-0.30874
411	POC206	A8MT79	-0.937
412	POC206	O60423	-0.91075
413	POC206	Q8WZB0	-0.12478
414	POC206	Q92954	-0.84257
415	POC206	Q5T9L3	-0.20344
416	POC206	Q9NR81	-0.39843
417	POC206	P28221	-1.2462
418	POC206	Q96Q42	-0.49212
419	POC206	P0C623	-1.1763
420	POC206	Q16842	-0.5639
421	POC206	Q8NH42	-1.1763
422	POC206	Q9BTT6	-0.24751
423	POC206	Q9C0B1	-0.20328
424	POC206	Q8IZF7	-1.2769
425	POC206	Q5VW36	-0.11881
426	POC206	Q8N130	-0.79194
427	POC206	Q7RTR8	-1.1287
428	POC206	P0C264	-1.13
429	POC206	Q96R48	-1.1763
430	POC206	Q8IUB5	-0.75923
431	POC206	Q9UBP9	-0.31022
432	POC206	P58181	-1.1763
433	POC206	Q96JQ2	-0.58405
434	POC206	Q9H799	-0.79503
435	POC206	O15050	-0.22463
436	POC206	Q8N0V5	-0.60834
437	POC206	P57058	-1.3936
438	POC206	Q8IVW4	-0.68319
439	POC206	Q92952	-0.68481
440	POC206	O75339	-0.84884
441	POC206	Q05996	-1.0056
442	POC206	Q8NEX6	-0.80952
443	POC206	Q9H0M0	-0.22741
444	POC206	P03951	-0.80032
445	POC206	Q8N474	-0.40533
446	POC206	Q5T2L2	-0.28953
447	POC206	Q9BZS1	-0.35541
448	POC206	Q9NVA2	-0.22701
449	POC206	Q12907	-0.28429
450	POC206	P63119	-0.56257
451	POC206	P40616	-0.69472
452	POC206	P52849	-0.49523
453	POC206	P51858	-0.21299
454	POC206	Q8NHH9	-0.43689
455	POC206	Q765P7	-0.57683
456	POC206	A1E959	-0.76434

457	POC206	P17302	-0.28809
458	POC206	P20800	-0.53786
459	POC206	P98196	-0.55403
460	POC206	A8MPP1	-0.37449
461	POC206	A2RUH7	-0.22782
462	POC206	Q9GZT3	-0.22612
463	POC206	Q86XR5	-0.69595
464	POC206	Q8TD46	-0.69717
465	POC206	Q9H4A9	-0.73441
466	POC206	Q9H343	-1.1763
467	POC206	Q13061	-0.70241
468	POC206	Q96CQ1	-0.55919
469	POC206	Q9BZJ7	-1.1108
470	POC206	Q96NT5	-0.40212
471	POC206	Q8WXF3	-0.7458
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473	POC206	Q5QGZ9	-0.90889
474	POC206	P57082	-0.33215
475	POC206	P84074	-0.33531
476	POC206	Q6TCH4	-0.79503
477	POC206	Q9UPQ7	-0.47051
478	POC206	O75678	-0.23123
479	POC206	Q9Y275	-0.82475
480	POC206	O60814	-0.64767
481	POC206	Q9BZ71	-0.60476
482	POC206	Q9P1Q5	-1.1763
483	POC206	O95497	-0.66863
484	POC206	P50395	-0.12234
485	POC206	O60844	-0.51559
486	POC206	Q4KMQ2	-0.82837
487	POC206	Q12866	-0.67111
488	POC206	Q7Z419	-0.17497
489	POC206	Q6ZU45	-0.2154
490	POC206	Q68D91	-0.14767
491	POC206	Q8NH51	-1.1763
492	POC206	Q96AZ1	-0.93514
493	POC206	P08034	-0.80974
494	POC206	Q96PN7	-0.18777
495	POC206	Q9NPH5	-0.78439
496	POC206	A8MWK0	-1.0326
497	POC206	P05154	-0.5134
498	POC206	Q8NG81	-1.1763
499	POC206	A8MUP2	-0.14731
500	POC206	Q9UFP1	-0.80952
501	POC206	P0DJ93	-0.79503
502	POC206	Q96Q91	-0.76687
503	POC206	Q5TEZ5	-0.092462
504	POC206	Q9Y573	-0.19714
505	POC206	Q5T7R7	-0.79503
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507	POC206	P08631	-0.25832
508	POC206	Q9NYR8	-1.2168
509	POC206	Q8IUW5	-0.71397
510	POC206	Q00535	-0.20765
511	POC206	P49674	-0.22741
512	POC206	Q96HR9	-0.79503
513	POC206	P55089	-0.47654
514	POC206	Q8IVL6	-0.5766
515	POC206	P53582	-0.29158
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521	POC206	Q12778	-0.41802
522	POC206	Q8IXS6	-0.45462
523	POC206	Q8IZP1	-1.2801
524	POC206	Q9NV66	-0.99403
525	POC206	Q86UD5	-0.72714
526	POC206	O14874	-0.34896
527	POC206	Q9NRW4	-0.40655
528	POC206	Q3SY69	-0.40427
529	POC206	P41271	-0.60599
530	POC206	O76090	-0.68899
531	POC206	Q6NV75	-1.2448
532	POC206	P18089	-0.5549

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534	P0C206	Q9BZA8	-1.1512
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536	P0C206	Q9Y2I1	-0.25439
537	P0C206	Q9NVR0	-0.80952
538	P0C206	Q9NWU1	-0.26156
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540	P0C206	P23510	-0.43892
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543	P0C206	Q96PD7	-0.34225
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545	P0C206	P42679	-0.4085
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547	P0C206	Q7Z5N4	-0.98895
548	P0C206	Q6PP77	-0.91833
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550	P0C206	Q66K79	-1.0723
551	P0C206	P28288	-0.6441
552	P0C206	Q9NXE4	-0.43916
553	P0C206	Q5U3C3	-0.79503
554	P0C206	Q9BSE5	-0.17447
555	P0C206	P53816	-0.10115
556	P0C206	O60673	-0.7226
557	P0C206	Q86YR6	-0.4367
558	P0C206	Q9UN72	-1.2044
559	P0C206	Q8WVX9	-1.2038
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561	P0C206	Q02505	-1.2691
562	P0C206	Q15262	-0.66251
563	P0C206	Q7Z4K8	-0.44814
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566	P0C206	P50148	-0.7213
567	P0C206	Q8WWA0	-1.1107
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569	P0C206	O14827	-0.61905
570	P0C206	Q5JZY3	-1.2623
571	P0C206	P04040	-0.3641
572	P0C206	O00451	-0.35055
573	P0C206	Q92859	-0.79438
574	P0C206	O75146	-0.19605
575	P0C206	Q6UE05	-0.79503
576	P0C206	O15075	-1.1561
577	P0C206	Q15296	-0.52402
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579	P0C206	Q9NRJ1	-0.22154
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581	P0C206	Q9HB55	-0.75353
582	P0C206	P19404	-0.3162
583	P0C206	Q96DA2	-0.86447
584	P0C206	Q12884	-0.58683
585	P0C206	Q8N5M4	-0.22566
586	P0C206	Q7Z2T5	-0.4413
587	P0C206	Q8N6C5	-0.5672
588	P0C206	O60313	-0.57197
589	P0C206	Q969S6	-0.79503
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593	P0C206	P01611	-0.9894
594	P0C206	Q8TBF8	-0.15728
595	P0C206	Q9NR12	-0.29741
596	P0C206	Q6ZMJ4	-0.69481
597	P0C206	Q8IYG6	-0.033602
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599	P0C206	Q70IA8	-0.18044
600	P0C206	P16144	-0.68945
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611	POC206	P37231	-0.25342
612	POC206	Q14118	-0.21009
613	POC206	Q15843	-0.22421
614	POC206	Q12770	-0.22741
615	POC206	Q6P5S2	-0.80952
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619	POC206	P09466	-0.90105
620	POC206	Q8NH18	-1.1763
621	POC206	A6NNX1	-0.3752
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623	POC206	Q96Q04	-1.1845
624	POC206	Q96FE7	-0.73552
625	POC206	Q9NQA3	-0.2168
626	POC206	Q4G0M1	-0.80952
627	POC206	Q8N9F0	-0.48697
628	POC206	Q13639	-0.95598
629	POC206	Q8N0Z9	-0.79503
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632	POC206	Q15116	-0.6445
633	POC206	Q9Y2I7	-0.22478
634	POC206	P31213	-0.71797
635	POC206	Q9C0H2	-0.86713
636	POC206	P31639	-0.63966
637	POC206	P63145	-0.15319
638	POC206	Q5DT21	-0.21178
639	POC206	Q4JDL3	-0.23522
640	POC206	Q8TCT0	-0.65894
641	POC206	Q8IYS1	-0.27706
642	POC206	Q96LW2	-1.13
643	POC206	Q96G79	-0.43045
644	POC206	O00453	-0.44335
645	POC206	Q9C019	-0.44148
646	POC206	O75414	-0.53545
647	POC206	Q9Y6X1	-0.39983
648	POC206	Q9Y4D8	-0.68627
649	POC206	Q9H213	-0.12561
650	POC206	Q8NCT1	-0.37966
651	POC206	Q9H598	-0.76797
652	POC206	Q9UJT1	-0.20382
653	POC206	P05362	-0.38881
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655	POC206	Q99720	-0.55589
656	POC206	P55087	-0.49456
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660	POC206	A6NHI5	-0.79503
661	POC206	P0CH98	-0.33732
662	POC206	Q8IX29	-0.20749
663	POC206	Q6ZUS5	-0.31854
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665	POC206	Q8N7C3	-0.31529
666	POC206	P10645	-0.70575
667	POC206	A6NFE3	-0.45362
668	POC206	A6QL63	-0.89028
669	POC206	Q16348	-0.31934
670	POC206	Q7Z3Z4	-0.22696
671	POC206	Q01362	-0.90252
672	POC206	Q9H1U4	-0.75032
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675	POC206	P06213	-0.25135
676	POC206	Q30KR1	-0.77981
677	POC206	Q8N1N2	-0.79503
678	POC206	Q9UHX3	-1.3638
679	POC206	Q15303	-0.22741
680	POC206	Q14161	-0.22741
681	POC206	Q8TAM1	-0.35582
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683	POC206	Q02742	-0.57896
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687	P0C206	P42658	-0.79973
688	P0C206	P22732	-0.20648
689	P0C206	Q8NGI2	-1.1763
690	P0C206	Q2TVT3	-0.33258
691	P0C206	Q96S38	-0.71858
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693	P0C206	Q13067	-0.13445
694	P0C206	Q6UXN9	-0.53988
695	P0C206	Q9P1Z0	-0.21825
696	P0C206	Q9BZV3	-0.96949
697	P0C206	Q5FYB0	-0.71517
698	P0C206	O60861	-0.22785
699	P0C206	Q8NHS4	-0.041034
700	P0C206	Q9NS15	-0.75944
701	P0C206	Q6ZVM7	-0.17864
702	P0C206	Q5VZ52	-0.10628
703	P0C206	O95249	-0.1415
704	P0C206	Q8N8Y5	-0.32767
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706	P0C206	Q9BXJ8	-0.57403
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708	P0C206	P04217	-0.71676
709	P0C206	Q9H3T2	-0.95404
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712	P0C206	Q86SS6	-0.71462
713	P0C206	Q9NQS5	-1.2064
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716	P0C206	P08100	-0.56494
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726	P0C206	Q5JPF3	-0.20385
727	P0C206	Q6IE36	-0.79178
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729	P0C206	Q969V3	-0.10565
730	P0C206	Q13065	-0.20415
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736	P0C206	Q7L3V2	-0.12442
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738	P0C206	P30492	-0.99995
739	P0C206	P02763	-0.31889
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745	P0C206	P01763	-0.9894
746	P0C206	Q9BV81	-0.77756
747	P0C206	Q96NF6	-0.79503
748	P0C206	P20794	-0.22651
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751	P0C206	Q9HAS0	-0.22687
752	P0C206	P42681	-0.47175
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754	P0C206	O95047	-1.1763
755	P0C206	P23416	-0.72248
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759	P0C206	Q15418	-0.20715
760	P0C206	P11766	-0.25672

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762	P0C206	Q96PJ5	-0.26942
763	P0C206	P27037	-0.37366
764	P0C206	Q902F9	-0.6451
765	P0C206	O95170	-0.22901
766	P0C206	Q6IQ22	-0.6585
767	P0C206	Q14324	-0.61637
768	P0C206	Q86W92	-0.52382
769	P0C206	Q9BPW9	-0.8698
770	P0C206	Q9HAU8	-0.57241
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786	P0C206	P59046	-0.22716
787	P0C206	P11216	-0.11717
788	P0C206	Q5VVJ2	-0.22738
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790	P0C206	A6NDA9	-0.79503
791	P0C206	Q1L5Z9	-0.33376
792	P0C206	Q6ZR37	-0.63562
793	P0C206	O00254	-1.0099
794	P0C206	Q9BVS4	-1.1161
795	P0C206	Q9UPU5	-0.59814
796	P0C206	Q01167	-0.39177
797	P0C206	Q9UIL4	-0.31455
798	P0C206	P27352	-0.8116
799	P0C206	P00738	-0.7538
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803	P0C206	O76099	-1.2234
804	P0C206	Q70SY1	-0.19114
805	P0C206	O75449	-0.22912
806	P0C206	P01765	-0.9894
807	P0C206	Q5JUK3	-1.2316
808	P0C206	P09529	-0.22741
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813	P0C206	O60359	-0.92678
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818	P0C206	Q6UXB8	-1.3229
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822	P0C206	Q95918	-1.1222
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826	P0C206	Q96MN2	-0.72239
827	P0C206	H3BS89	-0.79503
828	P0C206	Q96LU7	-0.80952
829	P0C206	Q05329	-0.23557
830	P0C206	Q96QV1	-0.32464
831	P0C206	Q9ULZ0	-0.5224
832	P0C206	Q8NFX7	-0.45287
833	P0C206	Q96KS9	-0.15967
834	P0C206	Q5XXA6	-0.78283
835	P0C206	P10721	-0.30489
836	P0C206	Q53GG5	-0.22741



837	P0C206	Q86VF5	-0.75391
838	P0C206	A8MUH7	-0.23036
839	P0C206	O60687	-0.28636
840	P0C206	Q01518	-0.16622
841	P0C206	Q5SVS4	-0.46059
842	P0C206	Q92847	-0.6446
843	P0C206	P02549	-0.22741
844	P0C206	Q96AX2	-0.70445
845	P0C206	Q07011	-0.88963
846	P0C206	Q93098	-0.81895
847	P0C206	Q96HF1	-0.27883
848	P0C206	Q8NDV1	-0.5728
849	P0C206	Q01101	-0.22308
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851	P0C206	Q8NGR8	-1.1763
852	P0C206	Q8NCW5	-0.38541
853	P0C206	Q96D21	-1.0302
854	P0C206	P11413	-0.18644
855	P0C206	Q8IWW8	-0.17522
856	P0C206	Q9H106	-0.80952
857	P0C206	P56746	-0.66396
858	P0C206	Q96AT9	-0.09621
859	P0C206	Q8NH89	-1.1763
860	P0C206	P61619	-0.74847
861	P0C206	P35414	-1.0274
862	P0C206	Q9Y240	-0.26509
863	P0C206	Q96NK8	-0.22764
864	P0C206	Q8NE79	-0.68819
865	P0C206	Q14213	-0.87841
866	P0C206	Q6ZMJ2	-0.96395
867	P0C206	Q96A05	-0.28883
868	P0C206	P46663	-0.99456
869	P0C206	P28799	-0.1084
870	P0C206	Q5TGP6	-0.27103
871	P0C206	P81133	-0.24794
872	P0C206	P0C629	-1.1763
873	P0C206	Q96S21	-0.94793
874	P0C206	Q8N8Z3	-0.19723
875	P0C206	P01036	-0.87562
876	P0C206	P78539	-0.4932
877	P0C206	O43280	-0.31454
878	P0C206	B1AL88	-0.79503
879	P0C206	Q9C0K1	-0.86643
880	P0C206	Q9UNA0	-0.23739
881	P0C206	P30499	-1.0603
882	P0C206	Q8IW52	-0.89423
883	P0C206	Q9BWE0	-0.32992
884	P0C206	O60513	-0.44905
885	P0C206	P01579	-0.2522
886	P0C206	P35625	-0.22469
887	P0C206	Q8WV15	-0.79503
888	P0C206	Q00337	-0.83546
889	P0C206	Q8IZM8	-0.22739
890	P0C206	P50053	-0.30163
891	P0C206	P10696	-0.71265
892	P0C206	P60983	-0.6709
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898	P0C206	A8MW92	-0.15207
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900	P0C206	P56199	-0.42757
901	P0C206	Q9UMY4	-0.21689
902	P0C206	P31327	-0.16605
903	P0C206	O60307	-0.60728
904	P0C206	A5YM72	-0.64197
905	P0C206	P01920	-0.62752
906	P0C206	Q9H920	-0.73705
907	P0C206	Q9H3R0	-0.1773
908	P0C206	P19022	-0.59804
909	P0C206	P04439	-1.0603
910	P0C206	Q96QS3	-0.144
911	P0C206	Q9UIV8	-0.42353
912	P0C206	Q96KN9	-0.9183

913	POC206	Q8NBP0	-0.22733
914	POC206	Q8NGN6	-1.1763
915	POC206	P31152	-0.53961
916	POC206	Q96GC9	-0.38358
917	POC206	P23469	-0.23122
918	POC206	Q9BWT3	-0.34266
919	POC206	Q3SXZ7	-0.15945
920	POC206	Q5VUB5	-0.79503
921	POC206	P10912	-0.271
922	POC206	P29275	-0.77435
923	POC206	P32247	-1.1032
924	POC206	P54284	-0.33773
925	POC206	Q9NQW7	-0.32973
926	POC206	P29803	-0.30049
927	POC206	Q9H422	-0.22741
928	POC206	Q96EQ8	-0.55003
929	POC206	Q9HCL0	-1.2445
930	POC206	Q15646	-0.21826
931	POC206	Q11206	-0.72973
932	POC206	Q6UWP7	-0.83446
933	POC206	Q9Y5K1	-0.37699
934	POC206	O00622	-0.44028
935	POC206	Q9HAT1	-0.72772
936	POC206	Q96PZ0	-0.22444
937	POC206	P03928	-0.42759
938	POC206	P57723	-0.041451
939	POC206	Q9HBL7	-0.98995
940	POC206	Q9BSJ1	-0.52059
941	POC206	P52952	-0.33456
942	POC206	A6NK02	-0.44814
943	POC206	Q8IYU2	-0.2278
944	POC206	O60496	-0.40251
945	POC206	Q8N3J2	-0.25991
946	POC206	Q7Z7D3	-0.99236
947	POC206	Q9H6A9	-0.79503
948	POC206	Q7Z2W7	-0.77331
949	POC206	Q15825	-0.84007
950	POC206	A8MUM7	-0.15498
951	POC206	Q16553	-0.55743
952	POC206	O95136	-1.2238
953	POC206	P10635	-0.38434
954	POC206	Q9HBI0	-0.33163
955	POC206	A6NJY1	-0.81117
956	POC206	C9JRZ8	-0.51459
957	POC206	Q9P291	-0.79503
958	POC206	P49279	-0.38364
959	POC206	Q5JTY5	-0.72239
960	POC206	Q9UHJ6	-0.5645
961	POC206	Q96EX2	-0.73705
962	POC206	Q95837	-0.95267
963	POC206	Q8NE00	-0.57403
964	POC206	Q8NCK7	-0.83852
965	POC206	P57059	-0.31012
966	POC206	Q8N1Q1	-0.16993
967	POC206	A1L157	-0.79503
968	POC206	P36896	-0.44158
969	POC206	Q8NG94	-1.1763
970	POC206	Q14094	-0.31943
971	POC206	Q8NGV0	-1.1763
972	POC206	P08246	-0.52602
973	POC206	Q9Y2H5	-0.32146
974	POC206	Q3ZCU0	-0.2039
975	POC206	O00585	-0.51965
976	POC206	Q0VAF6	-0.281
977	POC206	Q8NBI6	-0.89004
978	POC206	P22570	-0.19252
979	POC206	Q9BWU1	-0.89086
980	POC206	A6NIZ1	-0.94
981	POC206	Q9UM73	-1.4329
982	POC206	Q01415	-0.62362
983	POC206	Q8NDX1	-0.69077
984	POC206	O00370	-0.25956
985	POC206	Q9ULI3	-0.92062
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987	POC206	Q86U02	-0.79503
988	POC206	Q9UN70	-1.1252

989	P0C206	O75521	-0.74879
990	P0C206	Q7L591	-0.33654
991	P0C206	O95210	-0.39525
992	P0C206	Q8TDS5	-1.1255
993	P0C206	Q6P9F5	-0.44814
994	P0C206	P29400	-0.91068
995	P0C206	O75526	-0.23604
996	P0C206	Q53EP0	-0.72774
997	P0C206	Q96AY4	-0.22741
998	P0C206	Q8IV76	-0.23493
999	P0C206	Q8NGJ6	-1.1763
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1003	P0C206	Q16527	-0.23467
1004	P0C206	Q96RR4	-0.98957
1005	P0C206	P52824	-0.22741
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1007	P0C206	Q05639	-0.34193
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1026	P0C206	Q99832	-0.20225
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1067	P0C206	Q99819	-0.30055
1068	P0C206	Q14767	-0.9276
1069	P0C206	A6NMB9	-0.87404
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1071	P0C206	Q6NUQ4	-0.79503
1072	P0C206	Q53R41	-0.17946
1073	P0C206	Q8NEX9	-0.63634
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1085	P0C206	O00763	-0.29811
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1098	P0C206	Q15020	-0.22882
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1104	P0C206	Q6DKJ4	-0.13708
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1106	P0C206	O95057	-1.3067
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1112	P0C206	Q9NPG4	-1.0063
1113	P0C206	Q9UBK2	-0.63651
1114	P0C206	Q9NPH0	-0.65394
1115	P0C206	Q969V5	-0.22738
1116	P0C206	P01614	-0.9894
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1118	P0C206	P22314	-0.21195
1119	P0C206	Q5VWK5	-0.52268
1120	P0C206	Q86TE4	-0.80952
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1123	P0C206	O14788	-0.59194
1124	P0C206	P32245	-0.55324
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1127	P0C206	O00590	-1.3838
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1131	P0C206	Q9UIG4	-0.62908
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1136	P0C206	Q96L12	-0.43635
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1142	P0C206	Q8NEE8	-0.22733
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1227	P0C206	Q8NGG3	-1.1763
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1230	P0C206	P22102	-0.42759
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1241	P0C206	P0CG23	-0.46721
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1243	P0C206	Q0P5N6	-1.3287
1244	P0C206	Q9HAV0	-0.35669
1245	P0C206	Q3YEC7	-0.2278
1246	P0C206	Q9BS40	-0.16911
1247	P0C206	Q92570	-0.24739
1248	P0C206	Q6PIW4	-0.26286
1249	P0C206	Q71RC9	-0.79503
1250	P0C206	P23468	-0.62667
1251	P0C206	Q96F10	-0.16886
1252	P0C206	Q8IV13	-0.22551
1253	P0C206	A8MT19	-0.19634
1254	P0C206	Q86TI0	-0.95714
1255	P0C206	P16860	-0.43586
1256	P0C206	P54709	-0.577
1257	P0C206	Q02252	-0.30841
1258	P0C206	P49841	-0.22769
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1262	P0C206	Q14112	-0.6514
1263	P0C206	Q504Y2	-0.73554
1264	P0C206	Q13011	-0.093083
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1266	P0C206	Q9BUJ0	-0.48221
1267	P0C206	Q9GZZ8	-0.48781
1268	P0C206	Q9NX00	-0.62349
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1270	P0C206	Q14993	-1.1814
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1273	P0C206	Q9BTD8	-0.30066
1274	P0C206	Q9Y5E8	-1.2044
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1276	P0C206	P49448	-0.6554
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1278	P0C206	P04183	-0.50049
1279	P0C206	Q5W0B7	-0.79503
1280	P0C206	Q6ZU82	-0.287
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1283	P0C206	Q9H210	-1.1763
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1285	P0C206	Q8TDM0	-0.087563
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1296	POC206	Q96AN5	-0.5134
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1321	POC206	Q96IJ6	-0.66182
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1324	POC206	O60760	-0.22551
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1326	POC206	Q49A17	-0.60134
1327	POC206	Q14625	-1.0996
1328	POC206	Q9UGI0	-0.21772
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1333	POC206	Q6FI13	-0.66158
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1335	POC206	P00326	-0.52938
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1338	POC206	Q8N9X3	-0.22606
1339	POC206	Q8N0W3	-0.88616
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1362	POC206	Q9NSB8	-0.36556
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1365	POC206	Q9UMD9	-0.94754
1366	POC206	Q7LFL8	-0.043593
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1394	POC206	Q8NH06	-1.1763
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1649	P0C206	P34947	-0.48889
1650	P0C206	Q14626	-1.1119
1651	P0C206	A6NDY0	-0.61001
1652	P0C206	O95169	-0.40058
1653	P0C206	Q96NX5	-0.87649
1654	P0C206	P13762	-0.63497
1655	P0C206	P36897	-0.26801
1656	P0C206	Q6PJ69	-0.44814
1657	P0C206	P50895	-1.2097
1658	P0C206	O75844	-0.86716
1659	P0C206	P17542	-0.22768
1660	P0C206	Q9H310	-0.71535
1661	P0C206	Q96T55	-1.0115
1662	P0C206	Q9NZJ7	-0.23479
1663	P0C206	O43506	-1.0497
1664	P0C206	P28300	-0.37089
1665	P0C206	Q14994	-0.88145
1666	P0C206	P48449	-0.40741
1667	P0C206	Q9NRI6	-0.78978
1668	P0C206	Q9Y639	-0.81218
1669	P0C206	Q96BA8	-0.22656
1670	P0C206	Q96D96	-0.7981
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1675	P0C206	Q92968	-0.2274
1676	P0C206	P18428	-0.40395
1677	P0C206	O15156	-0.20773
1678	P0C206	P84077	-0.22827
1679	P0C206	Q96FQ7	-0.017707
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1682	P0C206	P63120	-0.56257
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1686	P0C206	Q8N9V2	-0.50255
1687	P0C206	Q8NDV2	-1.2337
1688	P0C206	P78552	-0.39237
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1694	P0C206	P24298	-0.20581
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1697	P0C206	O75695	-0.45399
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1712	P0C206	Q03013	-0.27045
1713	P0C206	P04062	-0.37687
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1919	POC206	Q8NGL2	-1.1763
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1935	POC206	P43116	-1.2345
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1953	POC206	Q96Q07	-0.40904
1954	POC206	Q96T60	-0.32607
1955	POC206	Q9NPJ1	-0.16753
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2065	POC206	O75061	-0.23641
2066	POC206	Q16518	-0.29531
2067	POC206	Q6V1P9	-1.1512
2068	POC206	Q5TF39	-0.92647
2069	POC206	I3L273	-0.16696
2070	POC206	Q56UN5	-1.13
2071	POC206	Q9H611	-0.39022
2072	POC206	Q86YB8	-0.71424
2073	POC206	Q8N4Y2	-0.11607
2074	POC206	Q8WX77	-0.77605
2075	POC206	O76050	-0.22737
2076	POC206	Q9ULZ1	-0.70047
2077	POC206	P61266	-0.67746
2078	POC206	Q96EX3	-0.22752
2079	POC206	Q86SQ0	-0.30631
2080	POC206	Q9NPZ5	-0.45287
2081	POC206	P49326	-1.0217
2082	POC206	Q9BW72	-0.73999
2083	POC206	Q9ULL4	-0.69264
2084	POC206	P61812	-0.22741
2085	POC206	Q9HD90	-0.22789
2086	POC206	Q8NFN8	-1.2135
2087	POC206	Q9H340	-1.1763
2088	POC206	Q8N967	-0.79503
2089	POC206	A6NGC4	-0.79503
2090	POC206	Q03001	-0.23122
2091	POC206	Q7L4E1	-0.79503
2092	POC206	Q9Y330	-0.22202
2093	POC206	Q13790	-0.9487
2094	POC206	Q8IY82	-0.28596
2095	POC206	A2RU48	-0.79503
2096	POC206	P24844	-0.22611
2097	POC206	Q8TBR7	-0.91833
2098	POC206	P09681	-0.49832
2099	POC206	P48735	-0.0775
2100	POC206	Q8NGD1	-1.1763
2101	POC206	Q8N475	-0.88269
2102	POC206	Q15218	-1.2566
2103	POC206	P83105	-1.2157
2104	POC206	Q8IXL7	-0.43798
2105	POC206	Q13239	-0.22741
2106	POC206	P52429	-1.3754
2107	POC206	Q9Y5Y9	-0.83392
2108	POC206	Q9UJA2	-0.55947
2109	POC206	O00160	-0.40542
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2111	POC206	A6NM66	-0.14209
2112	POC206	Q9H1X3	-0.88783
2113	POC206	P05067	-0.23946
2114	POC206	P62760	-0.29182
2115	POC206	O76039	-0.37716
2116	POC206	Q8NGX2	-1.1763
2117	POC206	Q9C098	-0.71925
2118	POC206	Q9NYL9	-0.211
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2121	POC206	Q8IXI2	-0.63229
2122	POC206	Q9P2D7	-0.29622
2123	POC206	Q9Y5X0	-0.19313
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2125	POC206	Q13349	-1.0131
2126	POC206	P54219	-0.3978
2127	POC206	Q5CZ79	-0.22739
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2130	POC206	Q9H9J4	-0.77976
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2132	POC206	P09093	-0.8727
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2134	POC206	Q16787	-1.0701
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2136	POC206	Q9BUF5	-0.50536
2137	POC206	P0CB46	-0.67872
2138	POC206	Q02962	-0.22732
2139	POC206	Q5UCC4	-1.3191
2140	POC206	Q05586	-0.36754
2141	POC206	Q6IEV9	-1.1763
2142	POC206	Q9NP73	-0.31219
2143	POC206	Q495N2	-0.79503
2144	POC206	O76093	-0.60594
2145	POC206	Q07973	-0.37796
2146	POC206	A6NCW7	-0.30371
2147	POC206	Q8WXI7	-0.99867
2148	POC206	Q96MC6	-0.82397
2149	POC206	Q00LT1	-0.68322
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2151	POC206	Q8N436	-1.1323
2152	POC206	Q15762	-0.67722
2153	POC206	Q01638	-0.87514
2154	POC206	Q9P1P5	-1.2135
2155	POC206	Q9Y6V7	-0.78816
2156	POC206	P49137	-0.23074
2157	POC206	Q9NWW6	-0.84106
2158	POC206	Q9BWQ6	-0.77738
2159	POC206	Q9BZW4	-0.674
2160	POC206	Q9Y6S9	-0.85948
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2162	POC206	P31275	-0.21322
2163	POC206	Q9UJ70	-0.26128
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2168	POC206	Q8TF72	-0.22711
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2170	POC206	Q76NI1	-0.71406
2171	POC206	P56597	-0.48523
2172	POC206	Q15582	-1.2625
2173	POC206	P0CF74	-0.95593
2174	POC206	Q16281	-1.3192
2175	POC206	Q4KMG0	-0.25395
2176	POC206	P10745	-0.99702
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2179	POC206	Q7Z3S9	-0.87096
2180	POC206	P10643	-0.84419
2181	POC206	O15230	-0.54445
2182	POC206	P32456	-0.21467
2183	POC206	P15086	-1.0826
2184	POC206	Q86W33	-0.94505
2185	POC206	Q6ZN54	-0.42115
2186	POC206	O75366	-0.16071
2187	POC206	Q09328	-0.58198
2188	POC206	Q9BWV3	-0.35255
2189	POC206	Q6IQ26	-0.22578
2190	POC206	Q15354	-1.433
2191	POC206	Q9NZN9	-0.21095
2192	POC206	Q9H0F5	-0.25112
2193	POC206	Q9GZP1	-0.85744
2194	POC206	P98187	-0.978
2195	POC206	Q9NXW2	-0.88783
2196	POC206	Q1KMD3	-0.22481
2197	POC206	Q8TF27	-0.77452
2198	POC206	P01596	-0.9894
2199	POC206	P33402	-0.64485
2200	POC206	P21815	-0.99329
2201	POC206	A6NKC4	-0.89738
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2203	POC206	O43716	-0.45955
2204	POC206	Q9BVV8	-0.54794

2205	POC206	P49747	-0.62238
2206	POC206	Q8N8D9	-0.0071128
2207	POC206	Q96PX9	-0.63562
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2212	POC206	P40123	-0.45764
2213	POC206	P48065	-0.9507
2214	POC206	Q6GMR7	-0.71657
2215	POC206	Q96HY7	-0.31317
2216	POC206	Q9NXG2	-0.30404
2217	POC206	Q6NXR0	-0.81039
2218	POC206	P25106	-0.98393
2219	POC206	P49335	-0.22741
2220	POC206	P27338	-0.65888
2221	POC206	Q8NGX9	-1.1763
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2223	POC206	Q96JQ5	-0.79503
2224	POC206	O95498	-0.36855
2225	POC206	P0C7N8	-1.1763
2226	POC206	Q6IEY1	-1.1763
2227	POC206	Q14940	-0.93776
2228	POC206	P30825	-1.0098
2229	POC206	Q99470	-0.94419
2230	POC206	Q96A08	-0.62351
2231	POC206	Q86Z14	-0.70945
2232	POC206	Q9BYV7	-0.59719
2233	POC206	P35125	-0.52878
2234	POC206	A0ZSE6	-0.79503
2235	POC206	P29597	-0.70545
2236	POC206	Q9NZP0	-1.1763
2237	POC206	A2RU14	-0.79503
2238	POC206	Q13948	-0.46704
2239	POC206	P09923	-1.0854
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2242	POC206	Q5EBN2	-0.44814
2243	POC206	P13236	-0.94309
2244	POC206	O94854	-0.45054
2245	POC206	Q9HC35	-0.53943
2246	POC206	Q96SI1	-0.17287
2247	POC206	P12645	-0.75752
2248	POC206	P08195	-0.29924
2249	POC206	Q5JW98	-0.79503
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2251	POC206	O15273	-0.045377
2252	POC206	Q6UXN2	-0.80952
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2257	POC206	Q8WWZ8	-0.22741
2258	POC206	Q86W24	-1.0908
2259	POC206	O15231	-0.13797
2260	POC206	O95156	-0.74315
2261	POC206	P10586	-0.84585
2262	POC206	P02462	-0.49107
2263	POC206	Q96I34	-0.22739
2264	POC206	Q7Z5L0	-0.79161
2265	POC206	Q7RTS5	-0.74491
2266	POC206	Q6UY14	-0.30999
2267	POC206	A8MYX2	-0.40318
2268	POC206	P12268	-0.71121
2269	POC206	O94766	-0.46476
2270	POC206	O95389	-0.87575
2271	POC206	Q9Y644	-0.98057
2272	POC206	Q8NI60	-0.78575
2273	POC206	P48775	-0.36663
2274	POC206	Q5T4F4	-0.25324
2275	POC206	P48145	-0.67781
2276	POC206	Q70EL4	-0.59814
2277	POC206	P30505	-1.0001
2278	POC206	A8MV57	-0.39587
2279	POC206	Q7RTX1	-1.2025
2280	POC206	P04000	-1.3368

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2282	P0C206	Q9BZL3	-0.79503
2283	P0C206	Q9NYJ7	-0.8931
2284	P0C206	Q7Z3S7	-0.83538
2285	P0C206	Q86VV8	-0.43077
2286	P0C206	P0CW22	-0.16221
2287	P0C206	P05997	-0.87203
2288	P0C206	Q9Y5H8	-1.2044
2289	P0C206	Q6UXQ6	-0.80952
2290	P0C206	O43432	-0.18078
2291	P0C206	Q92576	-0.22252
2292	P0C206	Q6P6C2	-0.62435
2293	P0C206	Q9NQL2	-0.63232
2294	P0C206	Q58DX5	-1.1336
2295	P0C206	Q6GTX8	-0.26942
2296	P0C206	P53355	-0.41341
2297	P0C206	Q9NY37	-0.88181
2298	P0C206	Q8N0U2	-0.79503
2299	P0C206	P01766	-0.9894
2300	P0C206	Q5GH72	-0.79503
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2303	P0C206	P22466	-0.29511
2304	P0C206	P23921	-0.095602
2305	P0C206	Q9Y5E3	-1.1831
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2308	P0C206	Q6ZSA7	-0.97624
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2314	P0C206	O00295	-0.666
2315	P0C206	O00217	-0.35275
2316	P0C206	Q6PJE2	-0.092462
2317	P0C206	Q5VZV1	-0.20034
2318	P0C206	Q8NGH6	-1.1763
2319	P0C206	Q9NS67	-1.2448
2320	P0C206	Q8NGZ3	-1.1763
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2322	P0C206	P18859	-0.14164
2323	P0C206	Q8N4E4	-0.17637
2324	P0C206	Q05901	-0.85336
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2326	P0C206	Q9H0C2	-0.60588
2327	P0C206	Q6TCH7	-0.5524
2328	P0C206	Q99973	-0.35354
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2330	P0C206	Q8IVS2	-0.51697
2331	P0C206	P26715	-1.1138
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2334	P0C206	Q96QE2	-0.72018
2335	P0C206	Q9GZV9	-0.80876
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2338	P0C206	Q07889	-0.28464
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2340	P0C206	Q75N03	-0.19758
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2342	P0C206	Q587J7	-0.2421
2343	P0C206	Q9H222	-0.63072
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2352	P0C206	O15374	-0.92922
2353	P0C206	Q29963	-0.99995
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2355	P0C206	Q8IZF2	-1.2769
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2357	P0C206	P01877	-0.37535
2358	P0C206	Q7Z4H4	-0.72703
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2360	P0C206	Q9NV23	-0.38221
2361	P0C206	P43629	-1.0885
2362	P0C206	Q96LB1	-1.1964
2363	P0C206	Q96LB0	-1.2448
2364	P0C206	P78330	-0.21612
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2391	P0C206	Q8WVJ2	-0.28406
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2394	P0C206	A2RU49	-0.29546
2395	P0C206	Q96S79	-1.2417
2396	P0C206	Q969M2	-0.85666
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2404	P0C206	Q8NGD4	-1.1763
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2442	POC206	P24387	-0.29263
2443	POC206	Q58EX2	-0.98895
2444	POC206	O00168	-1.032
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2451	POC206	Q9NVM6	-0.87778
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2454	POC206	Q8NGP8	-1.1763
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2476	POC206	Q6P0Q8	-0.50188
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2478	POC206	P48995	-0.24966
2479	POC206	Q8IVH4	-0.82096
2480	POC206	P41145	-0.83066
2481	POC206	Q9NS98	-1.1053
2482	POC206	Q9UNG2	-0.86472
2483	POC206	Q9UFH2	-0.32494
2484	POC206	Q9NY99	-0.22511
2485	POC206	P19021	-0.81014
2486	POC206	P20023	-0.90295
2487	POC206	Q5FWF7	-0.22212
2488	POC206	Q8TDR2	-0.5357
2489	POC206	P21554	-0.68736
2490	POC206	P21145	-0.48983
2491	POC206	Q9UJU2	-0.19263
2492	POC206	Q9H1U9	-0.57194
2493	POC206	O15123	-0.49313
2494	POC206	A1L390	-0.63562
2495	POC206	P12931	-0.23262
2496	POC206	P01703	-0.9894
2497	POC206	P19623	-0.19568
2498	POC206	Q95604	-0.99995
2499	POC206	P00491	-0.28591
2500	POC206	Q13586	-0.28105
2501	POC206	Q13607	-1.1763
2502	POC206	P43007	-0.45482
2503	POC206	Q6PEZ8	-0.86336
2504	POC206	Q13520	-0.70632
2505	POC206	Q9HD45	-0.87207
2506	POC206	Q6ZS30	-0.22741
2507	POC206	P21964	-0.24434
2508	POC206	Q93097	-0.84125

2509	POC206	P27707	-0.43277
2510	POC206	Q9UHE5	-0.91154
2511	POC206	Q9P121	-0.22808
2512	POC206	Q14565	-0.24385
2513	POC206	P23515	-0.57467
2514	POC206	Q9NXL6	-0.73433
2515	POC206	O00754	-0.32013
2516	POC206	Q8NGJ7	-1.1763
2517	POC206	P49588	-0.21292
2518	POC206	Q8NGP2	-1.1763
2519	POC206	O95248	-0.79192
2520	POC206	Q9NP31	-0.60296
2521	POC206	Q96E35	-0.21139
2522	POC206	Q96QD8	-0.98458
2523	POC206	P41597	-0.53691
2524	POC206	Q6ZPD8	-0.87102
2525	POC206	Q9UMR3	-0.57853
2526	POC206	P41732	-0.79825
2527	POC206	P22003	-0.52089
2528	POC206	P06729	-0.82494
2529	POC206	Q8NH76	-1.1763
2530	POC206	Q92615	-0.83583
2531	POC206	Q75473	-1.3018
2532	POC206	Q9BWF3	-0.2348
2533	POC206	Q1EHB4	-0.96958
2534	POC206	P32302	-1.2575
2535	POC206	Q08188	-0.40659
2536	POC206	Q9NYW1	-1.0414
2537	POC206	P68106	-0.23119
2538	POC206	Q3MIW9	-0.79503
2539	POC206	Q8WXA8	-0.87891
2540	POC206	Q86YL7	-0.81296
2541	POC206	C9JVI0	-0.59814
2542	POC206	Q9UQQ2	-0.27495
2543	POC206	Q92903	-0.79315
2544	POC206	Q16394	-0.5038
2545	POC206	P30411	-0.58873
2546	POC206	Q99572	-0.26188
2547	POC206	Q8WZA2	-0.30745
2548	POC206	Q5T089	-0.030445
2549	POC206	Q14939	-0.21636
2550	POC206	Q9NTN9	-1.0816
2551	POC206	Q96NZ8	-0.72721
2552	POC206	Q13402	-0.15369
2553	POC206	Q75074	-0.79606
2554	POC206	Q5TIE3	-0.80952
2555	POC206	Q24JP5	-0.54973
2556	POC206	P48745	-0.99354
2557	POC206	Q14236	-0.40361
2558	POC206	Q13361	-0.8734
2559	POC206	P59025	-0.84217
2560	POC206	Q9HBG7	-0.88706
2561	POC206	P06028	-1.0749
2562	POC206	Q9NZL6	-0.56247
2563	POC206	Q96KJ9	-0.34301
2564	POC206	A6NNM8	-0.24376
2565	POC206	Q8N690	-0.77981
2566	POC206	Q8WUS8	-1.2414
2567	POC206	Q96RD3	-1.1763
2568	POC206	Q9UJH8	-1.0147
2569	POC206	Q8NGU1	-1.1763
2570	POC206	Q8TE67	-0.22741
2571	POC206	Q9NPF7	-0.41083
2572	POC206	Q99466	-0.27199
2573	POC206	P17812	-0.45257
2574	POC206	Q5VUY2	-0.79036
2575	POC206	Q75460	-0.37815
2576	POC206	Q8N271	-0.93099
2577	POC206	Q75503	-0.19141
2578	POC206	P06310	-0.9894
2579	POC206	Q13950	-0.53196
2580	POC206	P59537	-1.1692
2581	POC206	O43306	-0.54766
2582	POC206	Q9NXR5	-0.22741
2583	POC206	P46063	-0.22598
2584	POC206	P18858	-0.15618

2585	POC206	Q76B58	-0.51062
2586	POC206	Q9Y5L2	-1.1008
2587	POC206	O60259	-0.485
2588	POC206	Q96QV6	-0.66158
2589	POC206	Q643R3	-0.77663
2590	POC206	P25067	-1.079
2591	POC206	Q3KP44	-0.22739
2592	POC206	Q9H6P5	-0.51736
2593	POC206	Q9NSA1	-0.35426
2594	POC206	Q502X0	-0.030445
2595	POC206	P10620	-0.15586
2596	POC206	Q8WXG8	-0.29182
2597	POC206	Q8NGS3	-1.1763
2598	POC206	Q13231	-0.75623
2599	POC206	P52907	-0.38343
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2601	POC206	P33993	-0.18722
2602	POC206	P60852	-1.2854
2603	POC206	Q9UQV4	-0.91272
2604	POC206	Q6DJT9	-0.080433
2605	POC206	P01375	-0.24438
2606	POC206	P0DH78	-0.22174
2607	POC206	Q9H1M3	-0.77981
2608	POC206	P11309	-0.25089
2609	POC206	P48729	-0.22741
2610	POC206	P0CG38	-0.20222
2611	POC206	Q8N556	-0.22506
2612	POC206	Q8WV83	-0.72669
2613	POC206	Q9HCQ5	-0.60275
2614	POC206	Q6UXK2	-0.96324
2615	POC206	Q15743	-1.4304
2616	POC206	A6NP81	-0.15936
2617	POC206	Q8NGJ4	-1.1763
2618	POC206	Q8N392	-1.0098
2619	POC206	Q09013	-0.31076
2620	POC206	Q86T20	-0.80952
2621	POC206	O15165	-0.78726
2622	POC206	Q9NQQ7	-0.72669
2623	POC206	P20774	-0.34635
2624	POC206	Q63HM2	-0.79503
2625	POC206	Q86VZ5	-0.34315
2626	POC206	Q16635	-0.45088
2627	POC206	P57054	-0.80216
2628	POC206	P62068	-0.46702
2629	POC206	Q5VZM2	-0.25027
2630	POC206	Q15027	-0.7189
2631	POC206	Q9NQS3	-0.32816
2632	POC206	Q92561	-0.19697
2633	POC206	Q14679	-0.26875
2634	POC206	P31270	-0.20894
2635	POC206	Q96N64	-0.21582
2636	POC206	Q02045	-0.25851
2637	POC206	P50579	-0.29921
2638	POC206	Q12918	-0.97275
2639	POC206	Q9UPN4	-0.063676
2640	POC206	Q92526	-0.40036
2641	POC206	Q7Z6M3	-1.0239
2642	POC206	A6NLX4	-0.79503
2643	POC206	Q8N2E6	-1.205
2644	POC206	Q8TDX5	-0.34502
2645	POC206	O95870	-0.73314
2646	POC206	Q9Y546	-0.15814
2647	POC206	Q5VTU8	-0.18188
2648	POC206	Q8NGG0	-1.1763
2649	POC206	A2A3N6	-0.22427
2650	POC206	P01130	-0.3671
2651	POC206	O00258	-0.3319
2652	POC206	Q8TDB8	-0.69667
2653	POC206	Q96P69	-1.2337
2654	POC206	Q9NRY7	-0.94699
2655	POC206	Q9HCJ1	-0.85238
2656	POC206	Q16877	-0.48707
2657	POC206	Q6BAA4	-0.22908
2658	POC206	Q9NVI7	-1.054
2659	POC206	Q7Z6I6	-0.95167
2660	POC206	P08254	-0.73488



2661	POC206	Q9BZF1	-0.60853
2662	POC206	Q9H1N7	-0.37101
2663	POC206	Q9Y5E4	-1.1388
2664	POC206	Q9ULW2	-0.68329
2665	POC206	Q8NH64	-1.1763
2666	POC206	Q3KPI0	-0.79503
2667	POC206	Q8IU83	-0.81997
2668	POC206	O14545	-0.41526
2669	POC206	Q9UGI6	-0.68709
2670	POC206	P26441	-0.21234
2671	POC206	Q07820	-0.22738
2672	POC206	P11182	-0.067682
2673	POC206	Q8N4K4	-0.79503
2674	POC206	Q8N7N1	-0.042663
2675	POC206	P30461	-0.99995
2676	POC206	P62685	-0.15319
2677	POC206	Q71RS6	-0.86311
2678	POC206	Q8IYK8	-1.3067
2679	POC206	P04424	-0.075895
2680	POC206	Q8WVT3	-0.08735
2681	POC206	P13674	-0.40987
2682	POC206	Q8NFL0	-0.46822
2683	POC206	Q9H2Q1	-0.79503
2684	POC206	Q4KMG9	-0.79503
2685	POC206	Q8NB37	-0.80952
2686	POC206	Q9H9S5	-1.0697
2687	POC206	Q13410	-1.4816
2688	POC206	Q92186	-0.32616
2689	POC206	O95479	-0.71966
2690	POC206	Q8N5Z0	-0.21877
2691	POC206	P30685	-0.99995
2692	POC206	O75319	-0.51859
2693	POC206	O00506	-0.45448
2694	POC206	Q13698	-0.60511
2695	POC206	Q86YJ5	-0.70843
2696	POC206	Q92813	-0.90083
2697	POC206	O95755	-0.65904
2698	POC206	P21453	-0.78285
2699	POC206	Q06210	-0.10142
2700	POC206	Q8NGS1	-1.1763
2701	POC206	Q02338	-0.33094
2702	POC206	Q71RG6	-0.80952
2703	POC206	Q96LD1	-0.43804
2704	POC206	O00322	-0.79966
2705	POC206	Q92858	-0.2289
2706	POC206	O43314	-0.49745
2707	POC206	P24071	-1.58
2708	POC206	Q9H6R6	-0.86766
2709	POC206	Q9UM21	-0.84648
2710	POC206	A6NI28	-1.2278
2711	POC206	Q99884	-0.8658
2712	POC206	P58012	-0.45919
2713	POC206	A2A2Z9	-0.22734
2714	POC206	Q2TB10	-0.2273
2715	POC206	P52848	-0.39572
2716	POC206	Q9NSE2	-0.22741
2717	POC206	Q8WVS4	-0.21805
2718	POC206	Q8IUH8	-0.98751
2719	POC206	P05937	-0.22727
2720	POC206	Q8TAS1	-0.32673
2721	POC206	Q9H330	-0.674
2722	POC206	Q9Y5F7	-1.1512
2723	POC206	P14209	-1.0015
2724	POC206	Q8NH37	-1.1763
2725	POC206	P12111	-0.84783
2726	POC206	Q8IVN8	-0.86989
2727	POC206	Q8N2A8	-0.65762
2728	POC206	O43301	-0.72239
2729	POC206	P25705	-0.065194
2730	POC206	P19320	-0.654
2731	POC206	Q9UHW5	-0.81553
2732	POC206	Q9NZD1	-1.2448
2733	POC206	O43719	-0.21565
2734	POC206	P30511	-1.0728
2735	POC206	Q9P0M4	-0.863
2736	POC206	Q5VV11	-0.26984

2737	P0C206	Q96JY0	-0.060022
2738	P0C206	Q7L8A9	-0.46835
2739	P0C206	P06318	-0.9894
2740	P0C206	Q9NQH7	-0.41859
2741	P0C206	O15016	-0.22732
2742	P0C206	O75352	-0.68598
2743	P0C206	O75964	-0.13531
2744	P0C206	O43709	-0.45739
2745	P0C206	P07339	-1.0389
2746	P0C206	P00390	-0.22404
2747	P0C206	Q92888	-0.26127
2748	P0C206	Q9ULI0	-0.84523
2749	P0C206	P43626	-0.54035
2750	P0C206	O60486	-0.99483
2751	P0C206	Q96G30	-0.32345
2752	P0C206	Q8WXX4	-0.48675
2753	P0C206	Q9H0R4	-0.25005
2754	P0C206	Q9UNW1	-0.34469
2755	P0C206	O00115	-0.47728
2756	P0C206	Q9H5V7	-0.22903
2757	P0C206	Q95672	-1.333
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2759	P0C206	P05771	-0.21226
2760	P0C206	Q6UWN8	-0.75923
2761	P0C206	Q8WZ84	-1.1763
2762	P0C206	Q99500	-1.1973
2763	P0C206	Q10588	-0.91238
2764	P0C206	P30481	-0.99995
2765	P0C206	P48146	-0.65146
2766	P0C206	Q13261	-0.45024
2767	P0C206	Q9Y693	-0.86094
2768	P0C206	Q9Y251	-0.21795
2769	P0C206	P08311	-1.1236
2770	P0C206	Q8TE12	-0.22848
2771	P0C206	Q8NH95	-1.1763
2772	P0C206	P78381	-0.16463
2773	P0C206	Q9BT22	-0.81141
2774	P0C206	Q96JP5	-0.10237
2775	P0C206	Q9H156	-0.89423
2776	P0C206	Q96Q40	-0.93426
2777	P0C206	P20849	-0.61434
2778	P0C206	Q9UIK4	-0.80899
2779	P0C206	P63096	-0.30884
2780	P0C206	Q9BWS9	-0.76574
2781	P0C206	P00403	-0.54701
2782	P0C206	Q309B1	-0.217
2783	P0C206	Q9Y6N8	-1.0941
2784	P0C206	A6NKF9	-0.79503
2785	P0C206	Q8N8F6	-0.89601
2786	P0C206	Q9UBY0	-0.99629
2787	P0C206	P42229	-0.22621
2788	P0C206	Q96L94	-0.4024
2789	P0C206	O75864	-0.24666
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2791	P0C206	P49788	-0.81562
2792	P0C206	P07858	-0.26576
2793	P0C206	P29320	-1.0039
2794	P0C206	Q9ULH0	-0.50503
2795	P0C206	Q6PHR2	-0.50087
2796	P0C206	Q86X29	-0.81595
2797	P0C206	P30484	-0.99995
2798	P0C206	Q8IZS7	-0.90889
2799	P0C206	Q9HAB3	-0.93475
2800	P0C206	Q8NGJ2	-1.1763
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2803	P0C206	Q9UHW9	-0.79093
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2805	P0C206	Q8IZL9	-0.15562
2806	P0C206	P47869	-0.66055
2807	P0C206	P35225	-0.20807
2808	P0C206	Q9UJ37	-0.59794
2809	P0C206	Q00604	-0.64403
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2811	P0C206	Q9UKJ8	-1.0497
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2813	POC206	Q9NP56	-0.34177
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2816	POC206	P17813	-0.20234
2817	POC206	P00973	-0.38656
2818	POC206	Q8N4P3	-0.35815
2819	POC206	Q02763	-0.46068
2820	POC206	Q14541	-0.23
2821	POC206	Q96PX6	-0.15762
2822	POC206	Q9NRP4	-0.054653
2823	POC206	Q92521	-0.80216
2824	POC206	Q14641	-1.1937
2825	POC206	Q15738	-0.99748
2826	POC206	Q8WWZ4	-1.1661
2827	POC206	Q8NGM8	-1.1763
2828	POC206	Q12891	-0.21655
2829	POC206	P58062	-0.20293
2830	POC206	Q96DT5	-0.45959
2831	POC206	O15550	-0.6034
2832	POC206	Q8NGC4	-1.1763
2833	POC206	Q95544	-0.6682
2834	POC206	Q5JXA9	-0.79503
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2836	POC206	P24386	-0.67144
2837	POC206	P35221	-0.17175
2838	POC206	Q9BZJ6	-1.1027
2839	POC206	P15144	-0.78283
2840	POC206	Q13117	-0.7142
2841	POC206	Q14654	-0.51907
2842	POC206	Q8IU89	-0.20261
2843	POC206	Q7LC44	-0.41618
2844	POC206	Q9NZN1	-0.60705
2845	POC206	P30453	-1.0001
2846	POC206	Q92878	-0.21017
2847	POC206	Q3ZCN5	-0.18854
2848	POC206	Q9Y666	-0.97996
2849	POC206	O14804	-1.3724
2850	POC206	Q6H3X3	-0.36433
2851	POC206	Q14667	-0.80952
2852	POC206	Q92643	-0.54679
2853	POC206	Q8N0X4	-0.28298
2854	POC206	A6NHY2	-0.37966
2855	POC206	O95302	-0.44975
2856	POC206	Q9Y2Y8	-0.25914
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2859	POC206	Q13322	-0.22741
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2865	POC206	Q0D2K2	-0.20499
2866	POC206	Q8IUR7	-0.22761
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2868	POC206	O60403	-1.1763
2869	POC206	P14784	-1.0576
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2871	POC206	P01566	-0.75974
2872	POC206	Q9NRG0	-0.28522
2873	POC206	Q6UWJ8	-0.79503
2874	POC206	A6NIV6	-0.27149
2875	POC206	Q96N66	-0.26874
2876	POC206	P00352	-0.42851
2877	POC206	P08861	-1.3339
2878	POC206	Q6ZW31	-0.76518
2879	POC206	P14679	-0.40928
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2881	POC206	P51793	-1.0323
2882	POC206	Q92574	-0.22708
2883	POC206	O60282	-0.39435
2884	POC206	Q8TBX8	-0.30358
2885	POC206	Q9GZQ6	-1.1869
2886	POC206	Q0ZGT2	-0.22741
2887	POC206	Q8IZA3	-0.30125
2888	POC206	Q14390	-0.2062

2889	POC206	Q9BZQ6	-0.35718
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2891	POC206	P46821	-0.15906
2892	POC206	Q9NR20	-0.9116
2893	POC206	Q9NX14	-0.45779
2894	POC206	Q8TC29	-0.29983
2895	POC206	O00624	-0.92409
2896	POC206	Q16134	-0.36411
2897	POC206	P16619	-1.0127
2898	POC206	Q99715	-1.14
2899	POC206	Q9NRW1	-0.47117
2900	POC206	Q401N2	-0.80981
2901	POC206	Q8N4P6	-0.22713
2902	POC206	Q96MM7	-0.58718
2903	POC206	P30485	-0.99995
2904	POC206	Q6ZRR7	-0.22732
2905	POC206	Q6UWB1	-0.93353
2906	POC206	Q4G0S7	-0.07141
2907	POC206	Q15389	-0.50615
2908	POC206	Q99592	-0.22759
2909	POC206	P78380	-1.4359
2910	POC206	P0C864	-0.099723
2911	POC206	Q8NGR2	-1.1763
2912	POC206	Q6EMK4	-1.3538
2913	POC206	Q9NVQ4	-0.46696
2914	POC206	Q8TAV3	-0.72996
2915	POC206	Q9BTM1	-0.66158
2916	POC206	Q8WUG5	-0.93518
2917	POC206	Q9BY14	-0.4576
2918	POC206	Q9Y694	-0.95394
2919	POC206	P48167	-0.41439
2920	POC206	Q8N122	-0.22741
2921	POC206	P13765	-0.96989
2922	POC206	Q8IV38	-0.3442
2923	POC206	Q9NY93	-0.42994
2924	POC206	O94989	-0.45896
2925	POC206	Q99558	-0.22741
2926	POC206	O95377	-0.87658
2927	POC206	Q7RTX8	-0.040639
2928	POC206	Q8WTT0	-0.76773
2929	POC206	Q99523	-0.24724
2930	POC206	Q8N4W6	-0.88783
2931	POC206	Q2M2E3	-1.0668
2932	POC206	P21918	-0.70242
2933	POC206	P49638	-0.22659
2934	POC206	Q9NRP0	-0.74691
2935	POC206	P55289	-1.0941
2936	POC206	Q9UBX1	-0.79604
2937	POC206	P35504	-0.94053
2938	POC206	Q9BTX3	-0.79503
2939	POC206	Q8IXI1	-0.72929
2940	POC206	P07948	-0.23172
2941	POC206	P51805	-1.0205
2942	POC206	Q6ZVX9	-0.79503
2943	POC206	Q8N7X0	-0.63333
2944	POC206	Q92947	-0.47966
2945	POC206	Q9UGF6	-1.1763
2946	POC206	O95372	-0.16644
2947	POC206	Q8NGG4	-1.1763
2948	POC206	Q86Y29	-0.80952
2949	POC206	Q96BM1	-0.22741
2950	POC206	Q5JQD4	-0.78978
2951	POC206	O75912	-0.22741
2952	POC206	Q8NI32	-0.44393
2953	POC206	Q8WXD2	-0.60225
2954	POC206	Q96HV5	-0.79503
2955	POC206	P06889	-0.9894
2956	POC206	P16066	-1.109
2957	POC206	Q9H0C1	-0.44814
2958	POC206	Q9NW75	-0.29468
2959	POC206	P38405	-0.92636
2960	POC206	O43934	-0.57403
2961	POC206	O75970	-0.2268
2962	POC206	Q8N8D7	-0.91833
2963	POC206	O15439	-0.95491
2964	POC206	Q92806	-0.52552

2965	P0C206	Q9Y6Y8	-0.11874
2966	P0C206	A2RUR9	-0.098357
2967	P0C206	P57735	-0.41256
2968	P0C206	Q6UB28	-0.36822
2969	P0C206	Q6UWW9	-0.79503
2970	P0C206	P06280	-0.12248
2971	P0C206	P20671	-0.66158
2972	P0C206	Q8WWQ2	-0.96425
2973	P0C206	Q6ZNF0	-0.73577
2974	P0C206	Q14515	-1.1366
2975	P0C206	Q969P6	-0.36483
2976	P0C206	P00156	-0.63591
2977	P0C206	Q96FL8	-0.75089
2978	P0C206	Q96M27	-0.056113
2979	P0C206	P49903	-1.0198
2980	P0C206	P22460	-0.53507
2981	P0C206	Q9Y3P4	-0.83559
2982	P0C206	Q6IN97	-0.22546
2983	P0C206	P11511	-0.35933
2984	P0C206	Q8WW36	-0.17787
2985	P0C206	Q08648	-0.83864
2986	P0C206	P0CE71	-0.29182
2987	P0C206	Q8NGH9	-1.1763
2988	P0C206	P63218	-0.4705
2989	P0C206	Q8IYJ0	-0.79503
2990	P0C206	Q3KRB8	-1.0098
2991	P0C206	Q3LFD5	-0.59814
2992	P0C206	Q6NZ63	-0.79503
2993	P0C206	Q5T2P9	-0.77452
2994	P0C206	P63122	-0.56257
2995	P0C206	A6NM76	-1.1763
2996	P0C206	O00305	-0.22713
2997	P0C206	Q94885	-0.22734
2998	P0C206	P0C7M7	-0.78078
2999	P0C206	Q9UNA1	-0.32832
3000	P0C206	P56915	-0.14294
3001	P0C206	P50416	-0.37463
3002	P0C206	Q75077	-1.224
3003	P0C206	Q63HR2	-0.22741
3004	P0C206	Q96KE9	-0.22371
3005	P0C206	A6NMS7	-0.79503
3006	P0C206	P23771	-0.22738
3007	P0C206	Q9NZP2	-1.1763
3008	P0C206	P17174	-0.18596
3009	P0C206	Q9HBY8	-0.62769
3010	P0C206	Q6ZTA4	-0.22741
3011	P0C206	Q9NYS0	-0.90872
3012	P0C206	Q9NZK7	-0.81875
3013	P0C206	Q06278	-0.51986
3014	P0C206	P25116	-0.40058
3015	P0C206	P02774	-0.61453
3016	P0C206	Q9BXE9	-1.1833
3017	P0C206	P06899	-0.64767
3018	P0C206	Q13421	-0.46884
3019	P0C206	Q9NW64	-0.50491
3020	P0C206	Q8IYT4	-0.47224
3021	P0C206	Q96PN8	-1.4088
3022	P0C206	Q08AH1	-0.84763
3023	P0C206	A6NJY4	-0.79503
3024	P0C206	Q52M75	-0.61953
3025	P0C206	Q9Y6N6	-1.055
3026	P0C206	Q9ULH4	-0.6938
3027	P0C206	Q7Z7L7	-0.26636
3028	P0C206	A4D1P6	-0.22745
3029	P0C206	Q9Y241	-0.63023
3030	P0C206	Q13530	-0.68568
3031	P0C206	Q6UVY6	-1.1197
3032	P0C206	Q9HAS3	-0.72219
3033	P0C206	Q16611	-0.22724
3034	P0C206	P78367	-0.22846
3035	P0C206	Q8IVE3	-0.59951
3036	P0C206	Q9Y5V0	-0.44814
3037	P0C206	Q96DS6	-0.79503
3038	P0C206	Q6ZN44	-1.02
3039	P0C206	Q8TDF6	-0.3892
3040	P0C206	Q8N2Y8	-0.22651

3041	P0C206	Q9NZR2	-0.75096
3042	P0C206	O94788	-0.68076
3043	P0C206	Q86XR7	-0.25633
3044	P0C206	Q96ID5	-0.80952
3045	P0C206	P52732	-0.34579
3046	P0C206	Q8TF21	-0.22747
3047	P0C206	Q6YHK3	-0.9303
3048	P0C206	A6NLI3	-0.090399
3049	P0C206	Q9Y679	-0.33576
3050	P0C206	Q5S007	-0.43126
3051	P0C206	O14638	-1.0965
3052	P0C206	Q6AZZ1	-0.22752
3053	P0C206	Q14573	-0.22008
3054	P0C206	P78368	-0.85811
3055	P0C206	Q9ULK5	-0.38998
3056	P0C206	Q9Y2B0	-0.22539
3057	P0C206	Q9C0K0	-0.22693
3058	P0C206	Q13510	-0.31631
3059	P0C206	Q9H813	-0.79503
3060	P0C206	E9PQX1	-0.065563
3061	P0C206	P10253	-0.32543
3062	P0C206	Q99795	-1.0825
3063	P0C206	Q8NDY8	-0.79503
3064	P0C206	Q6AHZ1	-0.22776
3065	P0C206	P55081	-0.75297
3066	P0C206	Q92667	-0.21404
3067	P0C206	Q5XG92	-0.74611
3068	P0C206	O43680	-0.22816
3069	P0C206	Q15622	-1.1763
3070	P0C206	O75578	-0.94705
3071	P0C206	Q8IZF3	-1.2769
3072	P0C206	P61224	-0.24216
3073	P0C206	Q6J4K2	-0.93846
3074	P0C206	Q14994	-0.22766
3075	P0C206	P42262	-0.89053
3076	P0C206	O76082	-0.35326
3077	P0C206	Q9H1J5	-0.56424
3078	P0C206	P21802	-0.25353
3079	P0C206	Q8NGX0	-1.1763
3080	P0C206	Q6PIV2	-0.48333
3081	P0C206	P86790	-0.47219
3082	P0C206	Q99697	-0.172
3083	P0C206	Q6ZVS6	-0.80952
3084	P0C206	Q04941	-0.57443
3085	P0C206	Q9P2J2	-0.9696
3086	P0C206	Q9NZV8	-0.71586
3087	P0C206	O60231	-0.32636
3088	P0C206	O15173	-0.99425
3089	P0C206	Q8TD30	-0.20129
3090	P0C206	P28329	-0.18448
3091	P0C206	P34981	-1.1849
3092	P0C206	P41439	-0.80144
3093	P0C206	Q99788	-0.85428
3094	P0C206	Q86UU1	-0.32146
3095	P0C206	P45844	-0.50427
3096	P0C206	Q8TE68	-0.22741
3097	P0C206	O00212	-1.1391
3098	P0C206	Q5TGY1	-0.79503
3099	P0C206	Q96P53	-0.22741
3100	P0C206	Q9UJS0	-0.38473
3101	P0C206	P42892	-0.62101
3102	P0C206	Q96MC2	-0.031612
3103	P0C206	Q8NGN1	-1.1763
3104	P0C206	Q9BYV2	-0.51257
3105	P0C206	Q01814	-0.31251
3106	P0C206	Q8IZ02	-0.22741
3107	P0C206	O75165	-0.29995
3108	P0C206	P15531	-0.17543
3109	P0C206	P34810	-0.8546
3110	P0C206	Q15155	-0.56413
3111	P0C206	Q9Y5G2	-1.1512
3112	P0C206	Q5SQ64	-0.91833
3113	P0C206	Q7Z7G1	-0.49867
3114	P0C206	P68032	-0.3408
3115	P0C206	Q6UXG3	-0.85178
3116	P0C206	Q8IX94	-0.67788

3117	P0C206	O15118	-0.61549
3118	P0C206	Q9P298	-0.79503
3119	P0C206	Q8TER5	-0.47726
3120	P0C206	P20264	-0.22741
3121	P0C206	O75508	-0.85751
3122	P0C206	O95861	-0.19713
3123	P0C206	P40261	-0.17716
3124	P0C206	P35613	-0.22742
3125	P0C206	P29322	-1.2033
3126	P0C206	Q9Y6E0	-0.23349
3127	P0C206	Q8N413	-0.58473
3128	P0C206	Q5TF21	-0.79503
3129	P0C206	O95522	-0.065812
3130	P0C206	Q9UBD9	-0.31263
3131	P0C206	O15541	-0.22735
3132	P0C206	Q5VZR4	-0.72007
3133	P0C206	Q96A58	-0.61373
3134	P0C206	P15812	-0.85736
3135	P0C206	Q9HCR9	-0.22492
3136	P0C206	Q9NRA1	-0.29897
3137	P0C206	O15243	-0.4732
3138	P0C206	Q68CR1	-0.79503
3139	P0C206	Q6NYC1	-0.18713
3140	P0C206	P57679	-0.65692
3141	P0C206	Q9Y2T3	-0.23156
3142	P0C206	P13725	-0.50356
3143	P0C206	Q9BZ29	-0.22565
3144	P0C206	Q8IZQ8	-0.53154
3145	P0C206	Q9UHF4	-0.79503
3146	P0C206	P48594	-0.51879
3147	P0C206	Q8WVD3	-0.54285
3148	P0C206	Q02161	-0.88765
3149	P0C206	A6NL08	-1.1763
3150	P0C206	Q9BYU1	-0.46964
3151	P0C206	O75131	-0.22898
3152	P0C206	O60706	-1.0297
3153	P0C206	Q9Y5R2	-1.7465
3154	P0C206	P09912	-0.24951
3155	P0C206	P52306	-0.56776
3156	P0C206	Q16280	-1.1623
3157	P0C206	P07202	-0.95973
3158	P0C206	Q9Y276	-0.48639
3159	P0C206	O94966	-0.59318
3160	P0C206	Q5T4I8	-0.068674
3161	P0C206	Q9UK80	-0.41379
3162	P0C206	Q68G75	-0.67219
3163	P0C206	P80365	-0.66502
3164	P0C206	Q14500	-0.9943
3165	P0C206	B2RXH2	-0.10981
3166	P0C206	P01848	-0.90773
3167	P0C206	Q8IX30	-0.22754
3168	P0C206	A6NMT0	-0.22787
3169	P0C206	Q9GZX3	-0.4594
3170	P0C206	Q9BYT9	-0.77342
3171	P0C206	Q9ULS6	-0.77342
3172	P0C206	P08572	-0.43078
3173	P0C206	Q9H172	-1.1642
3174	P0C206	P01743	-0.9894
3175	P0C206	Q5VY80	-0.51932
3176	P0C206	Q86YS6	-1.0599
3177	P0C206	Q96NI6	-0.79503
3178	P0C206	Q15109	-0.88706
3179	P0C206	Q8TDM5	-0.62866
3180	P0C206	P42336	-0.35348
3181	P0C206	Q14406	-0.69791
3182	P0C206	Q9BQT9	-0.89888
3183	P0C206	O43278	-0.79238
3184	P0C206	Q9H553	-0.19404
3185	P0C206	P30044	-0.29422
3186	P0C206	P62333	-0.38516
3187	P0C206	Q96JW4	-0.94146
3188	P0C206	Q9UGL1	-0.29986
3189	P0C206	Q9UQ90	-0.55211
3190	P0C206	Q14201	-0.079014
3191	P0C206	Q8N4F4	-0.86
3192	P0C206	Q9H1C7	-0.79503

3193	P0C206	A7E2Y1	-0.67413
3194	P0C206	Q9NWT1	-0.22823
3195	P0C206	A6NM15	-0.72239
3196	P0C206	Q99972	-0.84818
3197	P0C206	P78310	-0.22741
3198	P0C206	Q4UJ75	-0.22739
3199	P0C206	Q8N144	-0.51195
3200	P0C206	Q86XA0	-0.70885
3201	P0C206	Q13043	-0.23382
3202	P0C206	Q8IXE1	-1.1763
3203	P0C206	Q96KW9	-0.80935
3204	P0C206	Q9H4I9	-0.62349
3205	P0C206	P12273	-0.85083
3206	P0C206	Q8N9I5	-1.1005
3207	P0C206	Q12882	-0.52463
3208	P0C206	P07996	-0.30787
3209	P0C206	Q9NTG1	-1.0013
3210	P0C206	Q6P093	-1.214
3211	P0C206	P12081	-0.20459
3212	P0C206	Q96C12	-0.062245
3213	P0C206	Q9NZ08	-0.52344
3214	P0C206	Q9BQ50	-0.069224
3215	P0C206	Q96MU8	-0.22745
3216	P0C206	Q95965	-0.97144
3217	P0C206	P61204	-0.40787
3218	P0C206	Q6UXA7	-0.7099
3219	P0C206	Q8N9I1	-0.79503
3220	P0C206	Q4G0S4	-0.63837
3221	P0C206	Q6UWL6	-0.91693
3222	P0C206	P58743	-0.78672
3223	P0C206	Q9NWX6	-0.51481
3224	P0C206	Q8IZY2	-0.74535
3225	P0C206	Q95183	-0.92158
3226	P0C206	Q9UN88	-0.84687
3227	P0C206	Q7Z7G0	-0.91827
3228	P0C206	P05108	-0.29808
3229	P0C206	P19634	-0.37902
3230	P0C206	Q52LC2	-0.71564
3231	P0C206	P30490	-0.99995
3232	P0C206	Q96AD5	-0.65681
3233	P0C206	Q14195	-0.20433
3234	P0C206	Q14330	-1.1939
3235	P0C206	Q93033	-0.95171
3236	P0C206	A2RUT3	-0.79503
3237	P0C206	Q92629	-0.40771
3238	P0C206	Q86UG4	-0.8197
3239	P0C206	P02760	-0.71307
3240	P0C206	Q5JS13	-0.64868
3241	P0C206	P26232	-0.17952
3242	P0C206	Q86VS3	-0.35026
3243	P0C206	P22794	-0.81049
3244	P0C206	Q60243	-0.65025
3245	P0C206	Q15782	-0.69482
3246	P0C206	Q8NG99	-1.1763
3247	P0C206	Q9HCT0	-0.54029
3248	P0C206	Q68CJ6	-0.35992
3249	P0C206	P09471	-0.81467
3250	P0C206	Q9NS84	-0.45688
3251	P0C206	Q14185	-0.22741
3252	P0C206	Q6UW02	-1.0254
3253	P0C206	Q8WV74	-0.018152
3254	P0C206	Q00178	-0.72328
3255	P0C206	P01715	-0.9894
3256	P0C206	Q96R05	-0.21792
3257	P0C206	Q8IUH2	-0.89812
3258	P0C206	Q9UJ99	-1.1512
3259	P0C206	P51151	-0.40314
3260	P0C206	Q00526	-1.0454
3261	P0C206	Q01453	-0.35134
3262	P0C206	Q16777	-0.66158
3263	P0C206	Q9P0K1	-0.47956
3264	P0C206	Q8NEA9	-0.21437
3265	P0C206	Q9H479	-0.42195
3266	P0C206	Q95399	-0.61407
3267	P0C206	Q6PL45	-0.79503
3268	P0C206	Q4W5N1	-0.26029



3269	P0C206	Q8NCB2	-0.5392
3270	P0C206	Q70CQ1	-0.24191
3271	P0C206	Q9Y4F5	-0.20835
3272	P0C206	Q8NB16	-0.22741
3273	P0C206	Q6DD88	-0.91354
3274	P0C206	Q8N9S7	-0.79503
3275	P0C206	Q9Y3M8	-0.23087
3276	P0C206	Q01955	-0.52121
3277	P0C206	P31431	-0.74069
3278	P0C206	Q5H8A4	-0.92035
3279	P0C206	Q9BXB1	-0.88932
3280	P0C206	O76036	-1.0548
3281	P0C206	Q9P2W1	-0.15263
3282	P0C206	P18825	-0.36726
3283	P0C206	Q9H841	-0.76064
3284	P0C206	Q8NHS0	-0.34475
3285	P0C206	Q7L8C5	-0.82522
3286	P0C206	O43566	-0.22847
3287	P0C206	P35499	-1.0187
3288	P0C206	P11464	-0.81994
3289	P0C206	P59045	-0.85539
3290	P0C206	Q8WTY6	-0.18279
3291	P0C206	Q9GZP0	-0.91212
3292	P0C206	Q7L099	-0.6337
3293	P0C206	P09238	-1.2114
3294	P0C206	Q96PB8	-0.79503
3295	P0C206	Q9BT17	-0.16775
3296	P0C206	Q8WXA9	-0.22226
3297	P0C206	O95825	-0.72806
3298	P0C206	P30101	-0.2662
3299	P0C206	Q6DKI7	-0.79503
3300	P0C206	Q96KQ7	-0.22741
3301	P0C206	Q8TCT1	-0.24604
3302	P0C206	Q8TEA7	-1.012
3303	P0C206	P48052	-1.0187
3304	P0C206	Q8NGE1	-1.1763
3305	P0C206	Q8WXH6	-1.1817
3306	P0C206	Q9C0D3	-0.1932
3307	P0C206	Q99463	-1.2388
3308	P0C206	P06681	-1.3506
3309	P0C206	Q8IWX8	-0.12031
3310	P0C206	P36406	-0.3426
3311	P0C206	Q9BZX2	-0.60066
3312	P0C206	O00635	-0.61413
3313	P0C206	Q8NH90	-1.1763
3314	P0C206	P16112	-0.74531
3315	P0C206	Q9H3M0	-0.77342
3316	P0C206	Q9BXJ7	-1.003
3317	P0C206	Q96EW2	-0.17413
3318	P0C206	P02689	-0.18821
3319	P0C206	P18505	-0.90082
3320	P0C206	Q9H1D0	-0.96135
3321	P0C206	O75954	-0.95247
3322	P0C206	Q96S53	-0.65767
3323	P0C206	Q9ULM0	-0.28344
3324	P0C206	Q96P47	-1.0161
3325	P0C206	P63123	-0.56257
3326	P0C206	P00736	-1.3686
3327	P0C206	O14977	-0.16296
3328	P0C206	Q6IMI4	-0.23218
3329	P0C206	P80404	-0.23998
3330	P0C206	Q9HB63	-0.91393
3331	P0C206	Q8IUC8	-0.60275
3332	P0C206	I1YAP6	-0.2258
3333	P0C206	P08217	-1.3203
3334	P0C206	Q9BZ11	-1.0482
3335	P0C206	Q96JA4	-0.79503
3336	P0C206	P55085	-0.32718
3337	P0C206	Q8NDB6	-0.67219
3338	P0C206	P56559	-0.41434
3339	P0C206	Q6ZWK4	-0.79503
3340	P0C206	Q9Y5Y5	-0.37296
3341	P0C206	Q0GE19	-0.86695
3342	P0C206	P62070	-0.81767
3343	P0C206	P20020	-0.65062
3344	P0C206	P02766	-0.031684

3345	P0C206	Q9NZ71	-0.4328
3346	P0C206	Q9UJD0	-0.22273
3347	P0C206	Q9NRW7	-0.21687
3348	P0C206	Q14733	-0.23087
3349	P0C206	Q05397	-0.22742
3350	P0C206	P30508	-1.0603
3351	P0C206	Q8TC57	-0.67438
3352	P0C206	Q96FV0	-0.22709
3353	P0C206	Q58FF6	-0.4889
3354	P0C206	Q53H12	-0.78019
3355	P0C206	Q6PEX7	-0.79503
3356	P0C206	P13688	-0.77787
3357	P0C206	Q9H2C2	-0.81705
3358	P0C206	Q99935	-0.78063
3359	P0C206	O95711	-0.94713
3360	P0C206	P42765	-0.18496
3361	P0C206	P51513	-0.11927
3362	P0C206	Q8NDV3	-0.28342
3363	P0C206	Q9BXU1	-1.13
3364	P0C206	Q99683	-0.22737
3365	P0C206	Q3MIN7	-0.83955
3366	P0C206	Q9BUL5	-0.29892
3367	P0C206	Q96KN2	-1.1373
3368	P0C206	A6NGH8	-0.2274
3369	P0C206	Q7RTY1	-0.8432
3370	P0C206	Q6IFH4	-1.1763
3371	P0C206	Q6UX52	-0.80952
3372	P0C206	O60306	-0.4702
3373	P0C206	Q8N7B9	-0.29182
3374	P0C206	O43508	-0.99935
3375	P0C206	Q9NRQ5	-0.57403
3376	P0C206	Q03828	-0.22713
3377	P0C206	P43005	-0.71313
3378	P0C206	Q8WVE7	-0.79503
3379	P0C206	Q96MC5	-0.055499
3380	P0C206	P31785	-0.8255
3381	P0C206	Q6F5E8	-0.22242
3382	P0C206	Q9NZS2	-0.9807
3383	P0C206	Q5T6X5	-1.1427
3384	P0C206	Q14534	-1.1028
3385	P0C206	Q96J87	-0.41477
3386	P0C206	Q9Y371	-0.2274
3387	P0C206	Q14114	-0.88232
3388	P0C206	Q8NEC5	-0.59165
3389	P0C206	P26038	-0.23874
3390	P0C206	Q9BY07	-0.86981
3391	P0C206	P02747	-0.91335
3392	P0C206	Q6P5Q4	-0.23165
3393	P0C206	Q6UXT8	-0.80952
3394	P0C206	Q8TCG1	-0.085122
3395	P0C206	P49763	-0.95334
3396	P0C206	Q8N9L1	-0.24357
3397	P0C206	Q6ZT21	-0.688
3398	P0C206	Q9GZY4	-0.63887
3399	P0C206	Q6UXZ0	-0.79503
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3401	P0C206	Q9H114	-0.87562
3402	P0C206	P36959	-0.41639
3403	P0C206	P84085	-0.22784
3404	P0C206	Q9UKR3	-0.52834
3405	P0C206	P54793	-0.71517
3406	P0C206	Q9UDR5	-0.54579
3407	P0C206	Q14210	-0.57751
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3409	P0C206	P52333	-0.34459
3410	P0C206	P01225	-0.24913
3411	P0C206	Q6ZRX8	-0.13829
3412	P0C206	Q6UXM1	-0.79503
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3414	P0C206	Q08174	-0.99217
3415	P0C206	Q8N957	-0.22718
3416	P0C206	Q8N608	-0.95958
3417	P0C206	Q9Y4D2	-0.66333
3418	P0C206	Q95365	-0.99995
3419	P0C206	Q96QZ7	-0.22402
3420	P0C206	Q71DI3	-0.43755

3421	POC206	P01031	-0.76364
3422	POC206	P36507	-0.22788
3423	POC206	Q8NBI5	-0.80137
3424	POC206	Q6UXI9	-1.1509
3425	POC206	P16234	-0.26759
3426	POC206	Q15399	-0.97981
3427	POC206	Q7LFX5	-0.43728
3428	POC206	Q9NS28	-0.53604
3429	POC206	Q8NH87	-1.1763
3430	POC206	Q695T7	-0.97693
3431	POC206	P04003	-0.22737
3432	POC206	Q8N3H0	-0.19885
3433	POC206	O95231	-0.2274
3434	POC206	P47888	-1.1763
3435	POC206	Q2VIQ3	-0.38922
3436	POC206	Q8WXX1	-0.48675
3437	POC206	P07919	-0.31837
3438	POC206	O43813	-0.30081
3439	POC206	Q9Y624	-0.62039
3440	POC206	Q14451	-0.22741
3441	POC206	O00623	-0.26259
3442	POC206	Q6GMV1	-0.28684
3443	POC206	O43909	-0.71808
3444	POC206	Q99501	-0.085846
3445	POC206	Q9UEW3	-0.97337
3446	POC206	Q8NGC6	-1.1763
3447	POC206	Q8TEH3	-0.61087
3448	POC206	Q8N4C9	-0.79503
3449	POC206	Q99988	-0.79909
3450	POC206	Q9H521	-0.14803
3451	POC206	P12955	-0.55091
3452	POC206	Q53EL9	-0.87438
3453	POC206	Q8N2A0	-0.22405
3454	POC206	Q6ZN68	-0.79503
3455	POC206	Q02809	-0.70137
3456	POC206	O95340	-0.7457
3457	POC206	Q9BQF6	-0.62226
3458	POC206	P57738	-0.79503
3459	POC206	A6NC05	-0.19519
3460	POC206	P40197	-0.91086
3461	POC206	Q969E1	-0.79092
3462	POC206	Q96A25	-0.57403
3463	POC206	Q96AH8	-0.59525
3464	POC206	P81172	-0.5301
3465	POC206	Q13126	-0.15347
3466	POC206	O14931	-1.1292
3467	POC206	P51153	-0.43189
3468	POC206	Q99983	-0.89698
3469	POC206	Q8N4G2	-0.65026
3470	POC206	Q15768	-0.73908
3471	POC206	P50747	-0.31027
3472	POC206	Q9UJ42	-1.2448
3473	POC206	Q9H6E4	-0.80952
3474	POC206	Q6NUJ5	-0.21439
3475	POC206	O15130	-0.93355
3476	POC206	Q05940	-0.57486
3477	POC206	Q8NGT1	-1.1763
3478	POC206	Q9HDC9	-0.68238
3479	POC206	P0C881	-0.11248
3480	POC206	Q9UQ74	-0.80952
3481	POC206	P01241	-0.19615
3482	POC206	Q15427	-0.26394
3483	POC206	Q9UI38	-0.48512
3484	POC206	Q5I0G3	-0.56233
3485	POC206	O75367	-0.50329
3486	POC206	Q8NHP1	-0.51459
3487	POC206	Q92766	-0.21357
3488	POC206	Q8TBB6	-0.76825
3489	POC206	P24310	-0.6299
3490	POC206	P33176	-0.24155
3491	POC206	A3KMH1	-1.1669
3492	POC206	Q6ZSB3	-0.066713
3493	POC206	P78383	-0.72186
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3495	POC206	Q6UX41	-0.22916
3496	POC206	O43824	-0.92067

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3498	P0C206	P21796	-0.20701
3499	P0C206	Q99578	-0.86969
3500	P0C206	Q9P232	-0.56761
3501	P0C206	O00338	-0.21963
3502	P0C206	Q9UBL6	-0.26582
3503	P0C206	Q9UJT0	-0.30437
3504	P0C206	Q00169	-0.54477
3505	P0C206	Q5JU85	-0.21344
3506	P0C206	Q8WWZ1	-0.78709
3507	P0C206	Q99525	-0.4717
3508	P0C206	Q6ZT98	-0.53411
3509	P0C206	Q6WQI6	-0.10741
3510	P0C206	Q8TED4	-0.65916
3511	P0C206	Q9HBG6	-0.22742
3512	P0C206	Q9NUR3	-0.79503
3513	P0C206	O60725	-0.50299
3514	P0C206	Q8N8A4	-0.18803
3515	P0C206	P07307	-0.37635
3516	P0C206	O95969	-0.88207
3517	P0C206	Q94933	-0.89423
3518	P0C206	P30488	-0.99995
3519	P0C206	Q75N90	-0.95878
3520	P0C206	Q9NWR8	-0.79503
3521	P0C206	Q9Y337	-0.80134
3522	P0C206	Q7L211	-0.73314
3523	P0C206	Q02127	-0.60294
3524	P0C206	Q96NX9	-0.11844
3525	P0C206	O95995	-0.14465
3526	P0C206	P35354	-0.25251
3527	P0C206	P18065	-0.38847
3528	P0C206	Q9UK23	-0.39624
3529	P0C206	A6NGU5	-0.67656
3530	P0C206	Q9Y5W3	-0.22236
3531	P0C206	P28161	-0.22484
3532	P0C206	A8MTJ3	-0.67212
3533	P0C206	O75439	-0.43912
3534	P0C206	P98160	-0.93611
3535	P0C206	Q6ICL7	-0.79503
3536	P0C206	Q9UPY5	-0.68228
3537	P0C206	P05111	-0.48119
3538	P0C206	Q6E213	-0.81342
3539	P0C206	Q8N539	-1.0628
3540	P0C206	P30049	-0.11602
3541	P0C206	Q96LL3	-0.79503
3542	P0C206	O95267	-0.66517
3543	P0C206	A8K979	-0.51041
3544	P0C206	Q8IV04	-1.2801
3545	P0C206	Q6DWJ6	-1.2448
3546	P0C206	P01761	-0.9894
3547	P0C206	Q9Y5I0	-1.1512
3548	P0C206	P08118	-0.47392
3549	P0C206	A6NCI5	-0.79503
3550	P0C206	Q9Y264	-0.77231
3551	P0C206	Q4AC99	-0.3258
3552	P0C206	P01133	-0.82074
3553	P0C206	P01720	-0.9894
3554	P0C206	B2RUY7	-0.79979
3555	P0C206	Q9H015	-0.42048
3556	P0C206	Q9NR16	-1.4319
3557	P0C206	Q9UPN6	-0.29137
3558	P0C206	P16930	-0.21555
3559	P0C206	Q8NAB2	-0.19821
3560	P0C206	P25025	-1.1024
3561	P0C206	Q7L1W4	-0.79503
3562	P0C206	Q96QD5	-0.12256
3563	P0C206	Q9P0W8	-0.45879
3564	P0C206	Q86UK0	-1.2023
3565	P0C206	Q9Y2I2	-0.2283
3566	P0C206	P45974	-0.24508
3567	P0C206	O76100	-1.1763
3568	P0C206	P01308	-0.22485
3569	P0C206	Q96DR8	-0.92643
3570	P0C206	A0PJZ0	-0.22741
3571	P0C206	O43822	-0.22717
3572	P0C206	Q02383	-0.69638

3573	P0C206	Q7Z5G4	-0.085314
3574	P0C206	Q9NR96	-0.51688
3575	P0C206	Q6P5Z2	-0.30721
3576	P0C206	P49641	-0.434
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3578	P0C206	Q8NG66	-0.22743
3579	P0C206	A6NI15	-0.22742
3580	P0C206	Q8TB96	-1.3538
3581	P0C206	Q9UPW0	-0.45919
3582	P0C206	Q14435	-0.10244
3583	P0C206	P61916	-0.5072
3584	P0C206	Q7RTP6	-0.35373
3585	P0C206	Q6UWQ7	-0.80952
3586	P0C206	Q95450	-1.1287
3587	P0C206	P52735	-0.22741
3588	P0C206	Q96RD1	-1.1763
3589	P0C206	Q6ZMB5	-0.79503
3590	P0C206	Q9Y297	-0.28568
3591	P0C206	Q8NGY7	-1.1763
3592	P0C206	P48431	-0.30909
3593	P0C206	P13805	-0.11642
3594	P0C206	Q9H2V7	-0.22047
3595	P0C206	Q9Y576	-0.60968
3596	P0C206	P62191	-0.36227
3597	P0C206	Q8N0Y3	-1.1763
3598	P0C206	Q13433	-0.86508
3599	P0C206	Q5TGI4	-0.22713
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3603	P0C206	Q13613	-0.29425
3604	P0C206	Q6BCY4	-0.49143
3605	P0C206	Q8NI77	-0.61565
3606	P0C206	Q8IVF4	-0.47345
3607	P0C206	Q2TV78	-1.1662
3608	P0C206	Q16665	-0.24859
3609	P0C206	Q8NF86	-1.3626
3610	P0C206	Q92729	-0.66395
3611	P0C206	Q8WXF0	-0.48099
3612	P0C206	Q01064	-0.2225
3613	P0C206	Q0VDI3	-0.79503
3614	P0C206	Q8NEE6	-0.21917
3615	P0C206	Q6UXG8	-0.79503
3616	P0C206	P08908	-1.1852
3617	P0C206	Q6NXN4	-0.79503
3618	P0C206	Q8NH74	-1.1763
3619	P0C206	Q9UKP5	-1.173
3620	P0C206	Q8NB15	-0.2264
3621	P0C206	O43424	-0.56543
3622	P0C206	P01616	-0.95593
3623	P0C206	Q14155	-0.35921
3624	P0C206	Q43772	-0.33683
3625	P0C206	Q5VUJ5	-0.77452
3626	P0C206	Q13555	-0.89568
3627	P0C206	Q6P4F7	-1.0098
3628	P0C206	Q8N6Q1	-0.79503
3629	P0C206	Q6ZVL6	-0.79503
3630	P0C206	O43164	-0.23396
3631	P0C206	Q8NHQ9	-0.78816
3632	P0C206	Q9Y3N9	-1.1763
3633	P0C206	Q01085	-0.27594
3634	P0C206	O75679	-0.22908
3635	P0C206	Q8N6U8	-1.4035
3636	P0C206	Q1L6U9	-0.80952
3637	P0C206	Q13576	-0.8581
3638	P0C206	P0C7N1	-1.1763
3639	P0C206	Q01523	-0.77308
3640	P0C206	P15085	-1.1137
3641	P0C206	Q9P0X4	-0.45864
3642	P0C206	Q13535	-0.69567
3643	P0C206	Q8N6M5	-0.17824
3644	P0C206	P47881	-1.1763
3645	P0C206	P19961	-0.7599
3646	P0C206	P55058	-0.97636
3647	P0C206	Q86XE0	-0.165
3648	P0C206	Q6ZN92	-0.17821

3649	P0C206	Q9Y278	-0.49787
3650	P0C206	Q15198	-0.67118
3651	P0C206	Q08499	-0.2218
3652	P0C206	P21810	-0.66311
3653	P0C206	O14986	-0.23977
3654	P0C206	O60330	-1.1512
3655	P0C206	Q9H2S5	-0.22735
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3662	P0C206	A6NLP5	-0.21055
3663	P0C206	O77932	-0.72374
3664	P0C206	A1A5C7	-0.80335
3665	P0C206	Q6GMV3	-0.44609
3666	P0C206	P22301	-0.37785
3667	P0C206	O96005	-0.60369
3668	P0C206	Q9HAW9	-0.66112
3669	P0C206	Q14520	-0.53259
3670	P0C206	Q9UF11	-0.78978
3671	P0C206	Q5VXU1	-0.91833
3672	P0C206	P01814	-0.9894
3673	P0C206	Q86YD3	-1.4604
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3676	P0C206	O76096	-0.69262
3677	P0C206	P55916	-0.41711
3678	P0C206	P07451	-0.14739
3679	P0C206	Q9H596	-0.26697
3680	P0C206	O14732	-0.19769
3681	P0C206	Q7LDI9	-0.15319
3682	P0C206	O95807	-0.53449
3683	P0C206	P20594	-1.2838
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3685	P0C206	P46721	-0.78522
3686	P0C206	A4D2B8	-0.30816
3687	P0C206	P01911	-0.63497
3688	P0C206	Q15147	-0.22659
3689	P0C206	P53814	-0.22954
3690	P0C206	P03986	-1.0043
3691	P0C206	Q5VU65	-0.79503
3692	P0C206	Q13232	-0.56563
3693	P0C206	Q9UKR5	-0.76802
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3695	P0C206	P48307	-0.71944
3696	P0C206	Q8NH63	-1.1763
3697	P0C206	A1L4Q6	-0.26835
3698	P0C206	Q6UWN5	-0.44393
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3701	P0C206	P22894	-1.242
3702	P0C206	Q96LP6	-0.10083
3703	P0C206	Q16853	-1.0725
3704	P0C206	Q6PI78	-0.62349
3705	P0C206	Q9ULZ3	-0.12253
3706	P0C206	Q9Y225	-0.48497
3707	P0C206	P0DJD0	-0.35325
3708	P0C206	Q9NYB5	-0.91972
3709	P0C206	Q9UBV4	-0.77452
3710	P0C206	P01700	-0.9894
3711	P0C206	P01621	-0.9894
3712	P0C206	P09630	-0.22638
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3716	P0C206	Q9GZS0	-0.22741
3717	P0C206	Q8N5W8	-0.80952
3718	P0C206	O75493	-0.7215
3719	P0C206	Q6P1J6	-0.73051
3720	P0C206	Q6UWV6	-0.68918
3721	P0C206	Q14508	-0.99245
3722	P0C206	Q9H9K5	-0.66361
3723	P0C206	Q8N0V4	-0.80952
3724	P0C206	Q8WUT9	-0.58473

3725	P0C206	Q8IWB1	-0.4367
3726	P0C206	P19099	-0.42654
3727	P0C206	A6NNY8	-0.59814
3728	P0C206	P35626	-1.1612
3729	P0C206	Q9Y3Q0	-1.115
3730	P0C206	P06888	-0.9894
3731	P0C206	Q8WWI1	-0.22709
3732	P0C206	Q8NAA5	-0.15364
3733	P0C206	P35916	-0.56068
3734	P0C206	Q8WZ75	-0.89004
3735	P0C206	Q5JU69	-0.95667
3736	P0C206	Q5VZ03	-0.16097
3737	P0C206	Q8IZF4	-1.2769
3738	P0C206	Q96G61	-0.20487
3739	P0C206	P35348	-0.59388
3740	P0C206	O43852	-0.22646
3741	P0C206	Q68CK6	-0.73006
3742	P0C206	Q6ZNR0	-0.58329
3743	P0C206	Q9UFC0	-0.47045
3744	P0C206	O43295	-1.0098
3745	P0C206	Q8N323	-0.80952
3746	P0C206	Q9UBX7	-1.1776
3747	P0C206	Q9BVX2	-0.65823
3748	P0C206	Q9NXZ2	-1.0395
3749	P0C206	O15496	-0.57366
3750	P0C206	Q8TC59	-0.42323
3751	P0C206	O60522	-0.54943
3752	P0C206	Q99895	-0.8107
3753	P0C206	Q9Y6H8	-0.82686
3754	P0C206	Q9BQ16	-1.0049
3755	P0C206	Q7Z5L2	-0.73343
3756	P0C206	Q6ZMG9	-0.19245
3757	P0C206	Q92623	-0.20114
3758	P0C206	P23634	-0.45207
3759	P0C206	Q9Y6Q9	-0.42883
3760	P0C206	Q99808	-0.75505
3761	P0C206	P00374	-0.16874
3762	P0C206	Q9BSN7	-0.70739
3763	P0C206	P51864	-0.52136
3764	P0C206	P40967	-0.89727
3765	P0C206	B9EJG8	-0.79503
3766	P0C206	P33765	-1.0757
3767	P0C206	P55103	-0.6769
3768	P0C206	Q15113	-1.2086
3769	P0C206	Q9P217	-0.15207
3770	P0C206	Q9Y2L9	-0.24729
3771	P0C206	Q95460	-1.4188
3772	P0C206	P01137	-0.22741
3773	P0C206	O60811	-0.065812
3774	P0C206	B2RPK0	-0.27402
3775	P0C206	O60462	-0.68925
3776	P0C206	Q9NXJ0	-0.79503
3777	P0C206	P04155	-0.35652
3778	P0C206	P29475	-0.22816
3779	P0C206	O15529	-1.3861
3780	P0C206	Q6WN34	-0.59312
3781	P0C206	P07998	-0.16843
3782	P0C206	A8K0R7	-0.44814
3783	P0C206	Q6P9H5	-0.92067
3784	P0C206	O75417	-0.44677
3785	P0C206	Q9NXL9	-0.34661
3786	P0C206	Q9H7X7	-1.0927
3787	P0C206	P10301	-0.6908
3788	P0C206	O00203	-0.143
3789	P0C206	O95393	-0.22741
3790	P0C206	Q96M32	-0.47822
3791	P0C206	Q15772	-0.86584
3792	P0C206	Q9H0A3	-0.79503
3793	P0C206	Q8N6N2	-0.12492
3794	P0C206	A0A5B9	-0.79503
3795	P0C206	Q9GZM6	-1.1763
3796	P0C206	O43150	-0.2274
3797	P0C206	Q8NGF7	-1.1763
3798	P0C206	Q9H0H3	-0.2064
3799	P0C206	P20711	-0.59021
3800	P0C206	Q9UBY5	-1.2539

3801	P0C206	Q8TCG2	-0.53451
3802	P0C206	Q8NFV4	-0.21454
3803	P0C206	Q99653	-0.22733
3804	P0C206	P13497	-1.061
3805	P0C206	Q96PF1	-0.26776
3806	P0C206	A6NJW4	-0.79503
3807	P0C206	Q96NG3	-0.2169
3808	P0C206	Q93070	-0.47909
3809	P0C206	Q9P2E7	-1.1512
3810	P0C206	A6NFH5	-0.36221
3811	P0C206	Q86UW2	-0.72089
3812	P0C206	Q13523	-0.4233
3813	P0C206	Q8NBE8	-0.19654
3814	P0C206	Q6PIU1	-0.83562
3815	P0C206	Q9Y3Q3	-0.35857
3816	P0C206	Q7Z404	-0.79503
3817	P0C206	O43570	-0.78301
3818	P0C206	Q86Y56	-0.0012801
3819	P0C206	Q9BYJ1	-0.50825
3820	P0C206	Q13304	-1.263
3821	P0C206	Q9H9P2	-0.42092
3822	P0C206	P68402	-0.15883
3823	P0C206	A6NHL2	-0.39209
3824	P0C206	P22680	-0.65008
3825	P0C206	Q6IF00	-1.1763
3826	P0C206	Q8NHK3	-0.91833
3827	P0C206	P60985	-0.88258
3828	P0C206	Q8WWI5	-0.5681
3829	P0C206	P23677	-0.87084
3830	P0C206	Q8NES3	-0.87823
3831	P0C206	Q9H9Y4	-0.71108
3832	P0C206	Q96R67	-1.1763
3833	P0C206	Q96IG2	-0.22618
3834	P0C206	P23280	-0.58332
3835	P0C206	Q6DN72	-0.80761
3836	P0C206	P02144	-0.26566
3837	P0C206	Q96JC1	-0.18862
3838	P0C206	P09326	-0.51705
3839	P0C206	Q5SGD2	-0.60887
3840	P0C206	Q6P9G4	-0.79503
3841	P0C206	O75554	-0.14435
3842	P0C206	Q7L523	-0.22746
3843	P0C206	Q13162	-0.21705
3844	P0C206	P20936	-0.22741
3845	P0C206	Q15041	-0.85794
3846	P0C206	Q9UL51	-1.0409
3847	P0C206	P00742	-0.75688
3848	P0C206	P62195	-0.88969
3849	P0C206	Q8NGM9	-1.1763
3850	P0C206	O75388	-1.39
3851	P0C206	Q06124	-0.22741
3852	P0C206	Q8NEY1	-0.75633
3853	P0C206	Q8WU79	-0.089691
3854	P0C206	Q9UJ96	-0.62669
3855	P0C206	Q9H208	-1.1763
3856	P0C206	Q6T310	-0.26512
3857	P0C206	P47929	-0.31487
3858	P0C206	Q96H72	-0.46848
3859	P0C206	Q9BWM7	-0.74779
3860	P0C206	Q5VUD6	-0.89601
3861	P0C206	Q9BZM6	-0.50453
3862	P0C206	Q13724	-0.83099
3863	P0C206	O75311	-0.77635
3864	P0C206	Q9HB90	-0.69777
3865	P0C206	Q9Y2U9	-0.22136
3866	P0C206	P30041	-0.21282
3867	P0C206	Q6UXH8	-1.0307
3868	P0C206	Q8NGK4	-1.1763
3869	P0C206	Q8WWY8	-1.1531
3870	P0C206	O94880	-0.2418
3871	P0C206	Q3SY77	-0.83789
3872	P0C206	O75063	-1.1176
3873	P0C206	Q96H96	-0.59561
3874	P0C206	Q8NGP3	-1.1763
3875	P0C206	Q8WVX3	-0.79503
3876	P0C206	Q9UKQ9	-1.3203



3877	P0C206	Q9UHC9	-0.3852
3878	P0C206	O14569	-0.75114
3879	P0C206	Q15008	-0.11528
3880	P0C206	Q8N5V2	-0.79232
3881	P0C206	Q9NZG7	-0.94742
3882	P0C206	P04090	-0.79993
3883	P0C206	Q9NRZ7	-0.80655
3884	P0C206	P37023	-0.32761
3885	P0C206	Q13107	-0.35124
3886	P0C206	Q13046	-0.81994
3887	P0C206	Q7Z7B8	-0.77981
3888	P0C206	P52895	-0.3159
3889	P0C206	P35228	-0.31389
3890	P0C206	P60606	-0.77756
3891	P0C206	A8MZ36	-0.18337
3892	P0C206	Q629K1	-0.89601
3893	P0C206	P22749	-0.80528
3894	P0C206	O95631	-0.22741
3895	P0C206	Q147U7	-0.79503
3896	P0C206	A6NFC9	-1.1763
3897	P0C206	P25713	-0.14184
3898	P0C206	P46098	-0.85626
3899	P0C206	Q6SPF0	-0.58449
3900	P0C206	Q96A11	-0.57694
3901	P0C206	O00587	-0.81073
3902	P0C206	Q7Z5J8	-0.79503
3903	P0C206	Q9UL12	-0.088903
3904	P0C206	Q7L273	-0.19787
3905	P0C206	O95460	-0.27618
3906	P0C206	Q9NXC5	-0.22649
3907	P0C206	P32238	-0.6994
3908	P0C206	A0PJX4	-1.087
3909	P0C206	P08574	-0.22882
3910	P0C206	O75575	-0.52898
3911	P0C206	Q9HCN6	-0.37995
3912	P0C206	Q8WXJ9	-0.48675
3913	P0C206	Q99729	-0.24897
3914	P0C206	P07947	-0.58521
3915	P0C206	P40818	-0.33997
3916	P0C206	O95221	-1.1763
3917	P0C206	Q63ZY6	-0.20034
3918	P0C206	Q9C056	-0.2277
3919	P0C206	Q9UNZ2	-0.46498
3920	P0C206	Q9Y4A9	-1.1763
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3922	P0C206	Q02153	-0.6392
3923	P0C206	P29375	-0.34999
3924	P0C206	P30487	-0.99995
3925	P0C206	Q6UWR7	-1.3563
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3928	P0C206	P08709	-0.84397
3929	P0C206	Q9BYG0	-0.92489
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3931	P0C206	P60763	-0.63096
3932	P0C206	Q68D51	-0.20468
3933	P0C206	P01563	-0.32299
3934	P0C206	P28358	-0.36357
3935	P0C206	Q9UL26	-0.45396
3936	P0C206	Q9NQG6	-0.10991
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3939	P0C206	P26378	-0.83025
3940	P0C206	P41440	-0.69359
3941	P0C206	Q32Q52	-0.04537
3942	P0C206	A6NDE4	-0.23966
3943	P0C206	P06314	-0.9894
3944	P0C206	Q96BM9	-0.44423
3945	P0C206	Q9H2A9	-0.53577
3946	P0C206	Q9UPR0	-0.43228
3947	P0C206	P41279	-0.31473
3948	P0C206	P48741	-0.5176
3949	P0C206	O15178	-0.34395
3950	P0C206	Q8IX95	-0.15646
3951	P0C206	P30475	-1.0603
3952	P0C206	Q96QH8	-0.78748

3953	P0C206	Q07617	-0.66946
3954	P0C206	O75385	-0.49979
3955	P0C206	Q71RG4	-0.79503
3956	P0C206	Q5VU92	-0.2266
3957	P0C206	P39905	-0.38102
3958	P0C206	P51911	-0.20728
3959	P0C206	Q8NDC4	-0.07094
3960	P0C206	O14842	-1.1112
3961	P0C206	P10147	-0.30345
3962	P0C206	P05546	-0.67545
3963	P0C206	Q6B0I6	-0.17857
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3965	P0C206	Q96T68	-0.21792
3966	P0C206	Q8WX39	-0.7082
3967	P0C206	Q15005	-0.73371
3968	P0C206	Q4ZG55	-0.79503
3969	P0C206	Q96MD7	-0.19045
3970	P0C206	Q8N7Q2	-0.80952
3971	P0C206	P22004	-0.57304
3972	P0C206	Q14004	-0.14319
3973	P0C206	O75369	-0.35315
3974	P0C206	O43766	-0.40403
3975	P0C206	O43653	-0.44393
3976	P0C206	O14684	-0.70724
3977	P0C206	O94851	-0.36846
3978	P0C206	Q9UDX5	-0.58661
3979	P0C206	Q6AWC2	-0.2274
3980	P0C206	Q6ZRR9	-0.46207
3981	P0C206	Q17RQ9	-0.79503
3982	P0C206	Q96IZ6	-0.20034
3983	P0C206	Q86UT6	-0.21837
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3985	P0C206	P11226	-0.59523
3986	P0C206	P55083	-1.2042
3987	P0C206	Q8NGY1	-1.1763
3988	P0C206	Q9UGN4	-1.1014
3989	P0C206	P48736	-0.39162
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3991	P0C206	P61020	-0.51283
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3993	P0C206	Q765I0	-0.78978
3994	P0C206	P23467	-0.61994
3995	P0C206	Q10713	-0.42887
3996	P0C206	Q8N6P7	-0.75289
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3998	P0C206	P80362	-0.9894
3999	P0C206	Q6P2I3	-0.36618
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4001	P0C206	Q6ZT12	-0.64469
4002	P0C206	Q95274	-0.89026
4003	P0C206	P98179	-0.44826
4004	P0C206	P36941	-0.22731
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4006	P0C206	P02765	-0.64613
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4009	P0C206	Q15539	-0.70302
4010	P0C206	P83859	-0.62445
4011	P0C206	Q8TBZ2	-0.1818
4012	P0C206	Q6ZR62	-0.17787
4013	P0C206	P51671	-0.91603
4014	P0C206	Q96EN8	-0.22146
4015	P0C206	Q8TB40	-0.27499
4016	P0C206	Q9NYW3	-1.0414
4017	P0C206	P57764	-0.18715
4018	P0C206	P61952	-0.44154
4019	P0C206	Q9BYS8	-0.61553
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4021	P0C206	Q95371	-1.1532
4022	P0C206	Q8IWX7	-0.22228
4023	P0C206	Q9NQI0	-0.54686
4024	P0C206	Q17R55	-0.79503
4025	P0C206	Q9UHL0	-0.33259
4026	P0C206	P51172	-0.4677
4027	P0C206	P14207	-0.95261
4028	P0C206	P57053	-0.64767

4029	P0C206	A6NCS4	-0.27551
4030	P0C206	Q9NWM0	-0.21574
4031	P0C206	Q9NPR2	-0.98098
4032	P0C206	Q9HBU1	-0.22739
4033	P0C206	Q86UV7	-0.44814
4034	P0C206	Q96SF7	-0.38845
4035	P0C206	Q04656	-0.22766
4036	P0C206	O76071	-0.22765
4037	P0C206	Q6UXB4	-0.27048
4038	P0C206	O95236	-0.90275
4039	P0C206	O43524	-0.45919
4040	P0C206	Q96KK5	-0.66158
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4042	P0C206	Q15717	-0.56934
4043	P0C206	Q7RTR2	-0.34212
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4048	P0C206	O00222	-1.2015
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4061	P0C206	Q2TB18	-0.087271
4062	P0C206	Q13795	-0.57354
4063	P0C206	O94827	-0.36888
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4065	P0C206	A0AV02	-0.86385
4066	P0C206	Q86XS8	-0.28516
4067	P0C206	Q13214	-0.92263
4068	P0C206	P13861	-0.22735
4069	P0C206	Q86VZ1	-1.1939
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4072	P0C206	Q9P273	-0.96113
4073	P0C206	Q0P641	-0.15917
4074	P0C206	P41587	-1.3214
4075	P0C206	Q9NWH9	-0.22989
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4077	P0C206	P33778	-0.66158
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4079	P0C206	Q8NHW6	-0.83049
4080	P0C206	Q96IY4	-0.91105
4081	P0C206	Q96JM4	-0.22544
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4091	P0C206	Q6ZSV7	-0.072625
4092	P0C206	Q99877	-0.66158
4093	P0C206	Q99075	-1.1003
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4095	P0C206	A6NH00	-1.1763
4096	P0C206	Q6UB99	-0.22742
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4098	P0C206	Q9BWV7	-0.24376
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4107	POC206	O14683	-0.79644
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4109	POC206	Q99435	-0.36875
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4114	POC206	Q86X27	-0.75835
4115	POC206	Q92633	-0.30881
4116	POC206	Q00887	-0.81994
4117	POC206	Q96MH6	-0.86243
4118	POC206	Q99542	-1.1937
4119	POC206	Q93084	-0.66551
4120	POC206	Q6UWN0	-0.44393
4121	POC206	Q9P296	-0.62565
4122	POC206	Q13557	-0.68571
4123	POC206	Q15831	-0.27819
4124	POC206	Q02539	-0.64362
4125	POC206	Q9UKM9	-0.47989
4126	POC206	Q0IIM8	-1.3203
4127	POC206	Q32M45	-0.77342
4128	POC206	Q99626	-0.22605
4129	POC206	Q9BT73	-0.16491
4130	POC206	O43323	-0.83936
4131	POC206	Q9BXM9	-0.11553
4132	POC206	P03897	-0.20897
4133	POC206	Q9BYT8	-0.20552
4134	POC206	Q9NRX6	-0.5524
4135	POC206	P18465	-0.99995
4136	POC206	Q96RW7	-1.0617
4137	POC206	Q96D59	-0.73705
4138	POC206	Q9NX45	-0.22691
4139	POC206	P20701	-0.87922
4140	POC206	P50219	-0.2273
4141	POC206	Q8TAQ9	-0.77784
4142	POC206	P01876	-0.2691
4143	POC206	Q16206	-1.277
4144	POC206	P78423	-0.562
4145	POC206	O76083	-0.22526
4146	POC206	Q99742	-0.25638
4147	POC206	Q9H295	-0.36105
4148	POC206	P41181	-0.228
4149	POC206	Q15034	-0.39987
4150	POC206	Q5SZI1	-0.79503
4151	POC206	Q15434	-0.53143
4152	POC206	P18074	-0.26333
4153	POC206	Q5TDH0	-0.36557
4154	POC206	Q5VWJ9	-0.22115
4155	POC206	Q9H344	-1.1763
4156	POC206	P30926	-0.7864
4157	POC206	P98073	-1.1926
4158	POC206	Q5T2P8	-0.20272
4159	POC206	P0C6P0	-0.12695
4160	POC206	Q9BZZ2	-1.5563
4161	POC206	Q8NBZ7	-0.97008
4162	POC206	P63211	-0.6822
4163	POC206	Q8TAG5	-0.80952
4164	POC206	P01721	-0.9894
4165	POC206	Q8NG78	-1.1763
4166	POC206	Q9UMX5	-0.76867
4167	POC206	Q9NY59	-0.30128
4168	POC206	Q95977	-1.3542
4169	POC206	P08559	-0.18919
4170	POC206	Q96SL1	-0.8439
4171	POC206	Q7Z695	-1.1916
4172	POC206	O00631	-0.69038
4173	POC206	Q16820	-1.3255
4174	POC206	P05496	-0.56238
4175	POC206	Q8IZP9	-1.2495
4176	POC206	P01825	-0.9894
4177	POC206	P02708	-0.6878
4178	POC206	Q95445	-0.7823
4179	POC206	Q4G0X4	-0.1642
4180	POC206	Q8NGX5	-1.1763

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4182	POC206	P25054	-0.22669
4183	POC206	Q9UNW9	-0.14242
4184	POC206	Q30KQ9	-0.77981
4185	POC206	Q969N2	-0.11348
4186	POC206	Q9UNW8	-1.1575
4187	POC206	Q8IWY4	-0.85123
4188	POC206	A6NM62	-0.7415
4189	POC206	P54108	-0.75162
4190	POC206	O75711	-0.81124
4191	POC206	O75752	-0.68776
4192	POC206	Q96DA6	-0.51045
4193	POC206	Q8NI37	-0.17181
4194	POC206	Q6IPT4	-0.52386
4195	POC206	Q9H3W5	-0.84215
4196	POC206	O75751	-0.36986
4197	POC206	O94812	-0.23925
4198	POC206	Q14142	-0.22482
4199	POC206	Q86UV6	-0.44814
4200	POC206	P54762	-0.65999
4201	POC206	Q8N370	-0.91933
4202	POC206	Q96N67	-0.62505
4203	POC206	P15498	-0.22741
4204	POC206	Q9UFD9	-0.22738
4205	POC206	Q96MH7	-0.0064895
4206	POC206	Q99467	-0.96183
4207	POC206	O75409	-0.31718
4208	POC206	Q96MA6	-0.54678
4209	POC206	Q96BR1	-0.91112
4210	POC206	P20674	-0.090229
4211	POC206	Q9UKL6	-0.20719
4212	POC206	Q9P2H5	-0.59814
4213	POC206	P13716	-0.18432
4214	POC206	Q07837	-0.88446
4215	POC206	Q9NSI5	-0.39293
4216	POC206	Q17RP2	-0.061813
4217	POC206	A3KFT3	-1.1763
4218	POC206	P51787	-0.75747
4219	POC206	Q96PS8	-0.81629
4220	POC206	Q8IV16	-0.75948
4221	POC206	Q96G46	-0.58447
4222	POC206	Q8NH67	-1.1763
4223	POC206	Q7Z406	-0.33079
4224	POC206	Q9Y585	-1.1763
4225	POC206	Q08170	-0.23086
4226	POC206	O75874	-0.14779
4227	POC206	Q8NGK5	-1.1763
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4229	POC206	Q9HCD6	-0.22741
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4231	POC206	Q14644	-0.46619
4232	POC206	O75747	-0.71959
4233	POC206	Q9P1C3	-0.80952
4234	POC206	O60895	-0.085698
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4236	POC206	P30447	-1.0001
4237	POC206	Q5JRS4	-1.1763
4238	POC206	O00478	-0.79503
4239	POC206	Q6UXQ4	-0.80952
4240	POC206	O60755	-1.1494
4241	POC206	Q7Z602	-1.2448
4242	POC206	Q2M3M2	-0.96241
4243	POC206	Q8NCQ3	-0.79503
4244	POC206	O95727	-0.91118
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4246	POC206	O43687	-0.78448
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4249	POC206	P01861	-0.9687
4250	POC206	P19397	-0.41273
4251	POC206	Q9H082	-0.76598
4252	POC206	P63121	-0.56257
4253	POC206	Q5T197	-0.73705
4254	POC206	Q8N7C4	-0.79503
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4256	POC206	Q5TFQ8	-0.79503

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4260	P0C206	O60241	-1.2506
4261	P0C206	Q96JP0	-0.22746
4262	P0C206	Q86VR7	-0.79503
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4265	P0C206	Q8IU99	-0.96827
4266	P0C206	Q9Y6K0	-0.40864
4267	P0C206	Q15614	-1.1763
4268	P0C206	Q9UKQ2	-1.6587
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4274	P0C206	Q96GF1	-0.71639
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4277	P0C206	Q96PL1	-0.80952
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4279	P0C206	Q13443	-0.60219
4280	P0C206	Q86T65	-0.21732
4281	P0C206	P01824	-0.9894
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4284	P0C206	Q16445	-0.76149
4285	P0C206	P01236	-0.77379
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4288	P0C206	Q99941	-0.21353
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4290	P0C206	Q8NBI3	-0.78396
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4294	P0C206	O00459	-0.2274
4295	P0C206	Q8N4X5	-0.092676
4296	P0C206	P49590	-0.10076
4297	P0C206	O43281	-0.26182
4298	P0C206	Q9NV29	-0.57403
4299	P0C206	Q9Y446	-0.22837
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4301	P0C206	Q6ZW34	-0.79503
4302	P0C206	P43026	-0.45507
4303	P0C206	Q9P2U8	-0.74235
4304	P0C206	P35568	-0.20604
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4306	P0C206	Q8IYS0	-0.79503
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4308	P0C206	Q8NGH5	-1.1763
4309	P0C206	P05161	-0.37688
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4311	P0C206	O14792	-0.32237
4312	P0C206	Q6P2P2	-0.19642
4313	P0C206	Q15484	-0.97034
4314	P0C206	P49703	-0.22789
4315	P0C206	Q8NH01	-1.1763
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4325	P0C206	P48304	-0.82644
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4328	P0C206	O75083	-0.35538
4329	P0C206	O95219	-0.21122
4330	P0C206	Q9C040	-0.22741
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4334	POC206	Q16875	-0.44858
4335	POC206	Q96I99	-0.65471
4336	POC206	Q9NYW2	-1.0414
4337	POC206	Q86TI4	-0.22776
4338	POC206	Q76MJ5	-0.86642
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4341	POC206	O43155	-1.0915
4342	POC206	Q8WWW8	-0.32146
4343	POC206	Q9BUA6	-0.22711
4344	POC206	A6NF34	-0.78723
4345	POC206	Q9H9P8	-0.62315
4346	POC206	Q13637	-0.75068
4347	POC206	Q96BJ8	-0.14969
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4351	POC206	A6NEQ0	-0.60591
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4355	POC206	P78357	-0.54509
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4357	POC206	Q5Y7A7	-0.63497
4358	POC206	Q03403	-0.26313
4359	POC206	Q9NR63	-0.59559
4360	POC206	P51685	-1.3677
4361	POC206	P56851	-0.76048
4362	POC206	Q7Z7M0	-0.22741
4363	POC206	Q8N0U8	-0.79503
4364	POC206	F8WBI6	-0.056113
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4366	POC206	Q6ZUB1	-0.79503
4367	POC206	P54257	-0.052352
4368	POC206	O43781	-0.9627
4369	POC206	Q14833	-1.3349
4370	POC206	P29120	-0.38374
4371	POC206	P41226	-0.53648
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4374	POC206	Q8NGI4	-1.1763
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4383	POC206	Q9UKY4	-0.86752
4384	POC206	Q9H251	-0.58819
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4387	POC206	Q96PY0	-0.045754
4388	POC206	Q16566	-0.28079
4389	POC206	Q6ZMN8	-0.21288
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4391	POC206	P23141	-0.25179
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4393	POC206	Q9ULI4	-0.37471
4394	POC206	Q14917	-0.55846
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4396	POC206	Q8NDI1	-0.23027
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4412	POC206	Q6ZSS7	-0.80137
4413	POC206	P20333	-0.68161
4414	POC206	Q70Z35	-0.62301
4415	POC206	P18564	-1.1138
4416	POC206	Q9NR64	-0.2783
4417	POC206	A6NMZ5	-1.1763
4418	POC206	Q9BXR5	-1.2416
4419	POC206	P04629	-0.57033
4420	POC206	Q9H0N0	-0.32871
4421	POC206	Q96EM0	-0.38298
4422	POC206	Q9NRF2	-0.22741
4423	POC206	Q92485	-0.84764
4424	POC206	Q43614	-1.2586
4425	POC206	Q8NC67	-0.79503
4426	POC206	Q95976	-1.0549
4427	POC206	Q8N961	-0.2274
4428	POC206	Q8IWB9	-0.92488
4429	POC206	P62955	-0.80222
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4431	POC206	P48546	-1.2224
4432	POC206	Q8NF50	-0.27489
4433	POC206	Q31610	-0.99995
4434	POC206	Q6ICH7	-0.99431
4435	POC206	P63132	-0.20444
4436	POC206	Q43739	-0.4615
4437	POC206	Q96SF2	-0.45264
4438	POC206	Q8N5G2	-0.51407
4439	POC206	A0PK11	-0.79503
4440	POC206	Q9NQV5	-0.12042
4441	POC206	P56730	-1.2214
4442	POC206	Q9UIG5	-0.20355
4443	POC206	Q01433	-0.13239
4444	POC206	Q8IXN7	-0.65288
4445	POC206	P08123	-0.4491
4446	POC206	Q3MIP1	-0.79503
4447	POC206	P0C7Q2	-0.32748
4448	POC206	Q5XKR4	-0.10246
4449	POC206	Q8WTV0	-0.39946
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4451	POC206	P37088	-0.48407
4452	POC206	Q9Y661	-1.0837
4453	POC206	Q9Y217	-0.21293
4454	POC206	Q9Y3Q7	-1.1822
4455	POC206	Q8NGI8	-1.1763
4456	POC206	P11801	-0.53614
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4461	POC206	Q14CZ7	-0.17946
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4471	POC206	Q7LGC8	-0.44326
4472	POC206	Q8IUE6	-0.66158
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4474	POC206	P21281	-0.34912
4475	POC206	Q99985	-0.8018
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4479	POC206	Q6PK18	-1.0427
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4481	POC206	Q6EIG7	-0.73295
4482	POC206	P48751	-0.95405
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4485	POC206	Q8TDF5	-1.0837
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4488	POC206	Q5JTV8	-0.30812
4489	POC206	Q12965	-0.15135
4490	POC206	Q5SW96	-0.22725
4491	POC206	P28908	-0.61173
4492	POC206	P29371	-0.84362
4493	POC206	Q9Y303	-0.038572
4494	POC206	Q9P1Z9	-0.79503
4495	POC206	P22059	-0.26222
4496	POC206	A6NH21	-0.83256
4497	POC206	Q92609	-0.73994
4498	POC206	Q08ET2	-1.0867
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4506	POC206	Q9NPB1	-0.46556
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4508	POC206	Q92918	-0.60926
4509	POC206	P24394	-0.98295
4510	POC206	Q8IUG5	-0.10586
4511	POC206	P07101	-0.21881
4512	POC206	Q8WZ79	-0.5737
4513	POC206	Q96PH6	-0.79205
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4515	POC206	Q5VTB9	-0.22735
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4519	POC206	Q14730	-0.50908
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4521	POC206	Q5VT79	-0.20272
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4523	POC206	Q9NUN7	-0.34181
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4533	POC206	P06850	-0.48491
4534	POC206	Q14936	-0.23197
4535	POC206	Q9H9V9	-0.1969
4536	POC206	Q5HY92	-0.51055
4537	POC206	P47874	-0.30613
4538	POC206	Q6NSX1	-0.91731
4539	POC206	Q14802	-0.94448
4540	POC206	P06881	-0.213
4541	POC206	Q8TC17	-0.22741
4542	POC206	Q8N9L9	-0.32966
4543	POC206	P01760	-0.9894
4544	POC206	Q9UNT1	-1.0597
4545	POC206	Q86Z02	-0.22741
4546	POC206	Q8TEB7	-0.50392
4547	POC206	P98161	-0.26836
4548	POC206	Q96LR1	-0.80952
4549	POC206	P18206	-0.19972
4550	POC206	Q96DN5	-0.70226
4551	POC206	Q9Y5I4	-1.2044
4552	POC206	Q9NU53	-0.79503
4553	POC206	P38567	-0.57489
4554	POC206	Q8IYS4	-0.43697
4555	POC206	Q5YKI7	-0.45668
4556	POC206	O15303	-1.1247
4557	POC206	Q8TD94	-0.22203
4558	POC206	Q01432	-0.080709
4559	POC206	Q7Z769	-0.79503
4560	POC206	Q5VVY1	-0.20034

4561	P0C206	A8MXD5	-0.44034
4562	P0C206	Q15722	-1.6332
4563	P0C206	Q8WU67	-0.47699
4564	P0C206	P20151	-1.291
4565	P0C206	P01275	-0.56812
4566	P0C206	Q9NYW7	-1.0481
4567	P0C206	Q8N0W4	-0.36841
4568	P0C206	Q9Y4D7	-1.107
4569	P0C206	P24593	-0.3652
4570	P0C206	Q9Y5X9	-0.79073
4571	P0C206	O75936	-0.22357
4572	P0C206	P11215	-0.22737
4573	P0C206	Q8IVH8	-0.56135
4574	P0C206	P32297	-0.69788
4575	P0C206	Q9H9P5	-0.22738
4576	P0C206	Q6P2M8	-0.64046
4577	P0C206	P00747	-0.44033
4578	P0C206	O43914	-0.63282
4579	P0C206	Q9NP74	-0.40967
4580	P0C206	Q9BXJ5	-0.92155
4581	P0C206	P13637	-0.52338
4582	P0C206	O00253	-0.78322
4583	P0C206	Q9Y4C5	-0.59575
4584	P0C206	P21917	-0.49114
4585	P0C206	Q14246	-1.519
4586	P0C206	Q8NGC9	-1.1763
4587	P0C206	P05230	-0.28716
4588	P0C206	Q7Z442	-0.91983
4589	P0C206	Q13151	-0.2851
4590	P0C206	Q86SU0	-0.49814
4591	P0C206	Q96GA7	-0.078134
4592	P0C206	P43115	-1.0058
4593	P0C206	Q8TBM8	-0.88783
4594	P0C206	Q9BY10	-0.78789
4595	P0C206	Q9Y342	-0.81154
4596	P0C206	Q9H374	-0.2536
4597	P0C206	O75044	-0.22973
4598	P0C206	A0PJK1	-0.86534
4599	P0C206	Q9UHM6	-1.1291
4600	P0C206	P51572	-0.16104
4601	P0C206	Q9NYW5	-1.2301
4602	P0C206	Q92506	-0.33301
4603	P0C206	Q5MAI5	-0.72773
4604	P0C206	P56545	-0.35595
4605	P0C206	Q2KHR3	-0.33548
4606	P0C206	Q96L93	-0.55305
4607	P0C206	P10600	-0.22741
4608	P0C206	Q9NQW5	-0.19041
4609	P0C206	Q96MT7	-0.22738
4610	P0C206	P14138	-0.70878
4611	P0C206	P02686	-0.71805
4612	P0C206	Q12794	-0.35829
4613	P0C206	Q9HCF6	-0.83469
4614	P0C206	Q8IZD0	-0.17472
4615	P0C206	Q6P1R4	-0.59265
4616	P0C206	Q9NS40	-0.96731
4617	P0C206	P27361	-0.2274
4618	P0C206	Q8NET6	-0.43827
4619	P0C206	P53609	-0.2638
4620	P0C206	P25021	-1.3591
4621	P0C206	Q96BF3	-0.91833
4622	P0C206	Q07000	-1.0001
4623	P0C206	O75937	-0.16375
4624	P0C206	Q8TEU8	-0.67017
4625	P0C206	A6NI73	-1.3198
4626	P0C206	A6NI72	-0.22741
4627	P0C206	P21757	-0.45138
4628	P0C206	Q9NQA5	-0.96515
4629	P0C206	Q9HD87	-0.79503
4630	P0C206	Q13277	-0.29028
4631	P0C206	Q9BQI0	-0.52897
4632	P0C206	Q96N76	-0.14359
4633	P0C206	Q06520	-0.2288
4634	P0C206	P01906	-0.72614
4635	P0C206	Q8NBU5	-0.63529
4636	P0C206	Q96NW7	-0.23122

4637	P0C206	Q8TAV5	-0.80952
4638	P0C206	Q96R69	-1.1763
4639	P0C206	Q9ULL1	-0.67089
4640	P0C206	Q9BSK2	-0.57194
4641	P0C206	Q8N1M1	-0.73363
4642	P0C206	P49023	-0.17752
4643	P0C206	Q9UHQ9	-0.87065
4644	P0C206	Q6IEE8	-0.75914
4645	P0C206	Q8N3C7	-0.22741
4646	P0C206	P32246	-0.7358
4647	P0C206	P53671	-0.80729
4648	P0C206	Q5T1V6	-0.97956
4649	P0C206	Q6ZW33	-0.43881
4650	P0C206	Q16644	-0.23075
4651	P0C206	Q96D42	-0.64094
4652	P0C206	Q76G19	-0.22707
4653	P0C206	P25090	-1.4431
4654	P0C206	P24347	-1.3263
4655	P0C206	P09172	-0.4717
4656	P0C206	Q5QFB9	-0.89601
4657	P0C206	P05089	-0.1773
4658	P0C206	Q9TQE0	-0.52257
4659	P0C206	Q5JQS5	-1.1763
4660	P0C206	Q9BVG8	-0.26962
4661	P0C206	Q7Z304	-0.89968
4662	P0C206	P05187	-1.0314
4663	P0C206	Q86V86	-0.26597
4664	P0C206	P54764	-0.57764
4665	P0C206	P14061	-0.59774
4666	P0C206	Q9BYB4	-0.2276
4667	P0C206	Q9Y2P5	-0.8645
4668	P0C206	Q9BZJ3	-1.3203
4669	P0C206	Q969Z4	-0.66736
4670	P0C206	Q96MT1	-0.73705
4671	P0C206	P42701	-0.66587
4672	P0C206	P25929	-0.84426
4673	P0C206	P14778	-1.0436
4674	P0C206	Q8NET1	-0.77981
4675	P0C206	Q9H867	-0.17553
4676	P0C206	Q99944	-1.2331
4677	P0C206	Q96L16	-0.01358
4678	P0C206	Q58HT5	-0.85122
4679	P0C206	Q8IVF5	-0.86159
4680	P0C206	Q8WZ92	-1.1763
4681	P0C206	Q8WZ42	-0.32366
4682	P0C206	Q96BS2	-0.22744
4683	P0C206	Q95716	-0.66968
4684	P0C206	P49685	-1.327
4685	P0C206	P02776	-0.66888
4686	P0C206	P33260	-0.73734
4687	P0C206	Q9H672	-0.48675
4688	P0C206	P12829	-0.27908
4689	P0C206	Q6ZN03	-0.067832
4690	P0C206	Q76M96	-0.99435
4691	P0C206	P26572	-0.42685
4692	P0C206	P01732	-0.8275
4693	P0C206	P50993	-0.48987
4694	P0C206	Q6W4X9	-0.85157
4695	P0C206	Q5TA89	-0.22648
4696	P0C206	Q8NGI0	-1.1763
4697	P0C206	A8MXK1	-0.79503
4698	P0C206	Q86TY3	-0.79503
4699	P0C206	Q9BRR3	-0.79503
4700	P0C206	Q75596	-0.88872
4701	P0C206	P63267	-0.36762
4702	P0C206	Q96T75	-0.20924
4703	P0C206	Q08345	-0.9351
4704	P0C206	Q96I51	-0.22288
4705	P0C206	Q3MII6	-0.64177
4706	P0C206	P23471	-1.2155
4707	P0C206	A4FU69	-0.29182
4708	P0C206	Q9NPB0	-0.75402
4709	P0C206	Q96AQ8	-0.62349
4710	P0C206	Q02790	-0.384
4711	P0C206	Q12799	-0.076807
4712	P0C206	Q8IUS5	-0.89394

4713	P0C206	Q5T1J6	-0.09335
4714	P0C206	Q8WYL5	-0.30273
4715	P0C206	Q6X9E4	-0.13476
4716	P0C206	P23229	-0.24335
4717	P0C206	Q8NGE0	-1.1763
4718	P0C206	Q9Y2T4	-0.2878
4719	P0C206	Q9ULD6	-0.22732
4720	P0C206	Q6UXE8	-0.57403
4721	P0C206	Q6ZWK6	-1.8172
4722	P0C206	P69849	-0.77216
4723	P0C206	C9JXX5	-0.80952
4724	P0C206	P04843	-0.61845
4725	P0C206	Q8TB92	-0.18308
4726	P0C206	Q9ULH1	-0.29306
4727	P0C206	P78508	-0.61643
4728	P0C206	O95502	-0.92302
4729	P0C206	O00462	-0.32138
4730	P0C206	Q9NPD5	-0.64355
4731	P0C206	Q9BZJ4	-0.56153
4732	P0C206	Q96R08	-1.1763
4733	P0C206	Q9H400	-0.69919
4734	P0C206	P20382	-0.79264
4735	P0C206	P24158	-0.37114
4736	P0C206	Q9Y5H1	-1.1512
4737	P0C206	P46091	-1.3861
4738	P0C206	Q96PS6	-0.79503
4739	P0C206	Q9UN76	-0.88946
4740	P0C206	Q9HB29	-1.1308
4741	P0C206	Q8TBP6	-0.58473
4742	P0C206	Q9NUL7	-0.16058
4743	P0C206	Q14973	-0.83405
4744	P0C206	P80108	-0.4572
4745	P0C206	Q495M3	-0.59434
4746	P0C206	Q08828	-0.64503
4747	P0C206	Q9UPZ9	-0.76183
4748	P0C206	A8MVS5	-0.79503
4749	P0C206	Q14432	-0.55965
4750	P0C206	P48436	-0.33179
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4752	P0C206	P01850	-0.86734
4753	P0C206	Q9HB15	-0.88298
4754	P0C206	Q86YQ2	-0.97846
4755	P0C206	Q5T447	-0.22828
4756	P0C206	Q7Z4T8	-0.63165
4757	P0C206	P58511	-0.57403
4758	P0C206	Q494V2	-0.19123
4759	P0C206	Q05C16	-0.22802
4760	P0C206	Q13268	-0.2941
4761	P0C206	P46092	-1.2781
4762	P0C206	Q8NDX9	-0.62908
4763	P0C206	P01286	-0.4711
4764	P0C206	A6NK59	-0.48675
4765	P0C206	Q8N531	-0.4432
4766	P0C206	Q9BY67	-0.47554
4767	P0C206	P48058	-0.95628
4768	P0C206	P36222	-0.49513
4769	P0C206	Q9NUV9	-0.20284
4770	P0C206	Q99666	-0.21814
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4772	P0C206	Q05D32	-0.31505
4773	P0C206	P28476	-0.88129
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4776	P0C206	Q01959	-0.32056
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4778	P0C206	P49842	-0.6899
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4780	P0C206	Q96SB3	-0.22688
4781	P0C206	Q9UHC6	-0.87783
4782	P0C206	P0DJD4	-0.60591
4783	P0C206	Q9UKP4	-1.1291
4784	P0C206	A4D2G3	-1.1763
4785	P0C206	P21359	-0.22568
4786	P0C206	Q7RTR0	-0.51103
4787	P0C206	Q9H6Y7	-0.23641
4788	P0C206	P21580	-0.13721

4789	POC206	O75897	-0.22259
4790	POC206	Q92833	-0.20992
4791	POC206	Q9NQZ3	-0.23152
4792	POC206	Q30KP9	-0.77981
4793	POC206	Q99836	-0.22739
4794	POC206	Q9H426	-0.24201
4795	POC206	Q96NT0	-0.31977
4796	POC206	Q96P56	-0.56294
4797	POC206	P10321	-0.99995
4798	POC206	Q86YC3	-0.79503
4799	POC206	P10415	-0.22725
4800	POC206	P16109	-0.22741
4801	POC206	A6NMD0	-0.91853
4802	POC206	O75078	-0.99565
4803	POC206	Q99574	-0.65067
4804	POC206	O94886	-1.3591
4805	POC206	Q5FVE4	-0.92555
4806	POC206	Q8N7U6	-0.29182
4807	POC206	Q6UW78	-0.80952
4808	POC206	Q7Z4P5	-0.22741
4809	POC206	Q86YV6	-1.13
4810	POC206	B1AKI9	-0.80952
4811	POC206	Q969K3	-0.22741
4812	POC206	Q7RTY9	-0.93257
4813	POC206	A8MXZ1	-0.19106
4814	POC206	P14091	-0.51783
4815	POC206	Q9H2W1	-0.79503
4816	POC206	Q9H2Z4	-0.47045
4817	POC206	Q15612	-0.97027
4818	POC206	Q86SG6	-1.0305
4819	POC206	P11217	-0.34137
4820	POC206	Q8NEW0	-0.25206
4821	POC206	P15586	-0.19892
4822	POC206	P41221	-0.22928
4823	POC206	Q13387	-0.17496
4824	POC206	Q9NZQ8	-0.89785
4825	POC206	Q68DD2	-0.28687
4826	POC206	O95208	-0.16617
4827	POC206	Q6IA69	-0.44632
4828	POC206	Q6PK57	-0.40187
4829	POC206	O95199	-0.2273
4830	POC206	P22760	-0.78713
4831	POC206	Q9H936	-0.23114
4832	POC206	Q6P4H8	-0.79503
4833	POC206	Q8N7C0	-0.97624
4834	POC206	Q96TA0	-1.1512
4835	POC206	Q8NFA2	-0.3185
4836	POC206	P28340	-0.24997
4837	POC206	A6NJS3	-0.80952
4838	POC206	Q9H2X0	-0.55563
4839	POC206	Q15617	-1.1763
4840	POC206	P60891	-0.45624
4841	POC206	Q8WUX1	-0.94667
4842	POC206	Q8TDE3	-0.72676
4843	POC206	O15269	-0.31896
4844	POC206	Q9H4I0	-0.096694
4845	POC206	Q9UMW8	-0.45354
4846	POC206	Q8NH04	-1.1763
4847	POC206	Q8IZI9	-0.84266
4848	POC206	Q8TBG9	-0.66663
4849	POC206	Q9UL15	-0.16302
4850	POC206	Q86XM0	-1.0415
4851	POC206	Q9HCU5	-0.2274
4852	POC206	Q9NX38	-0.20296
4853	POC206	O15018	-0.37144
4854	POC206	Q6ZRH7	-1.1179
4855	POC206	P13804	-0.08272
4856	POC206	Q86UV5	-0.43576
4857	POC206	Q9Y5G4	-1.1512
4858	POC206	P55017	-0.36553
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4860	POC206	O95294	-0.33497
4861	POC206	P01775	-0.9894
4862	POC206	Q05823	-0.28644
4863	POC206	P22001	-0.75475
4864	POC206	Q8IUX1	-0.57403

4865	POC206	Q9BZM5	-0.98849
4866	POC206	Q8NB78	-0.31409
4867	POC206	P21579	-0.27229
4868	POC206	A0AVT1	-0.22098
4869	POC206	A6NIU2	-0.16664
4870	POC206	P41146	-1.1883
4871	POC206	Q8TBP5	-0.79503
4872	POC206	Q32VQ0	-1.1763
4873	POC206	Q8NGS9	-1.1763
4874	POC206	P30486	-0.96478
4875	POC206	Q92777	-0.45587
4876	POC206	O00429	-0.5679
4877	POC206	Q9UHG0	-0.39854
4878	POC206	P06307	-0.74977
4879	POC206	P24592	-0.63622
4880	POC206	Q96T53	-0.80641
4881	POC206	Q99453	-0.22609
4882	POC206	Q03518	-0.36747
4883	POC206	Q8NDB2	-0.20406
4884	POC206	Q8NHB8	-1.1763
4885	POC206	Q8WXG6	-0.1927
4886	POC206	O95866	-0.7916
4887	POC206	Q8TE60	-1.173
4888	POC206	Q9H0X9	-0.97008
4889	POC206	P55000	-0.97652
4890	POC206	Q6UXX5	-0.79503
4891	POC206	P29279	-0.29477
4892	POC206	Q86YQ8	-0.23004
4893	POC206	P01619	-0.95593
4894	POC206	O00507	-0.46746
4895	POC206	P16471	-0.97416
4896	POC206	P27449	-0.19192
4897	POC206	P38484	-0.96503
4898	POC206	O75845	-0.90405
4899	POC206	Q7Z6J6	-0.32544
4900	POC206	D3W0D1	-0.41448
4901	POC206	Q14416	-1.2621
4902	POC206	Q10472	-0.85375
4903	POC206	Q5VWC8	-1.0157
4904	POC206	O43581	-0.80174
4905	POC206	Q14D33	-0.79503
4906	POC206	Q96GR2	-0.64849
4907	POC206	Q99758	-1.1115
4908	POC206	Q13286	-0.15344
4909	POC206	Q9P2F6	-1.083
4910	POC206	Q6ZW76	-0.22742
4911	POC206	P04440	-0.65442
4912	POC206	Q9NYN1	-1.2249
4913	POC206	Q16555	-0.20376
4914	POC206	Q8NG97	-1.1763
4915	POC206	P20807	-0.75743
4916	POC206	Q15256	-0.32462
4917	POC206	Q8N7P1	-0.96469
4918	POC206	P0DI80	-0.79503
4919	POC206	Q96K37	-0.72669
4920	POC206	P42330	-0.22385
4921	POC206	P21817	-0.57611
4922	POC206	P78527	-0.36557
4923	POC206	P06239	-0.26135
4924	POC206	Q9UHQ4	-0.37792
4925	POC206	P22223	-1.0879
4926	POC206	P78333	-1.1064
4927	POC206	P31151	-0.21894
4928	POC206	P01034	-0.31852
4929	POC206	O94760	-0.043138
4930	POC206	P0C626	-1.1837
4931	POC206	P07910	-0.2297
4932	POC206	P15169	-1.1176
4933	POC206	Q05193	-0.24096
4934	POC206	P16188	-0.93091
4935	POC206	Q9H478	-0.092462
4936	POC206	Q5TEJ8	-0.48991
4937	POC206	P36382	-0.8508
4938	POC206	Q15165	-0.58571
4939	POC206	Q8TE82	-0.15646
4940	POC206	Q9H720	-0.77762

4941	POC206	Q8WU10	-0.51459
4942	POC206	P15538	-0.43442
4943	POC206	Q9HA65	-1.2801
4944	POC206	P0CZ25	-0.026588
4945	POC206	Q9H8Y5	-0.20906
4946	POC206	Q5T6R2	-0.22317
4947	POC206	Q15075	-0.21036
4948	POC206	Q6ZQN5	-0.45919
4949	POC206	Q9P0S2	-0.43781
4950	POC206	Q7Z4J2	-0.64037
4951	POC206	Q9Y6A2	-0.89495
4952	POC206	O43567	-0.5149
4953	POC206	Q9BQ49	-0.79503
4954	POC206	Q8TD90	-0.081732
4955	POC206	Q16563	-0.77341
4956	POC206	Q9BRP0	-0.22149
4957	POC206	Q0VAM2	-0.70657
4958	POC206	P49447	-0.71941
4959	POC206	Q5JTN6	-0.22969
4960	POC206	O14957	-0.54022
4961	POC206	O00187	-0.92563
4962	POC206	Q15835	-1.0616
4963	POC206	P08253	-0.63787
4964	POC206	P53621	-0.22949
4965	POC206	P46977	-0.34167
4966	POC206	P30711	-0.22238
4967	POC206	P18440	-0.18696
4968	POC206	Q6NTF9	-0.83559
4969	POC206	P13726	-0.31527
4970	POC206	Q9UHB6	-0.22703
4971	POC206	A6NDI0	-0.44814
4972	POC206	Q58G82	-0.18821
4973	POC206	Q03721	-0.7368
4974	POC206	P30519	-0.17409
4975	POC206	Q9NQ40	-0.92118
4976	POC206	P04430	-0.9894
4977	POC206	Q16515	-0.62624
4978	POC206	Q9Y6G1	-0.79503
4979	POC206	Q4VX76	-0.6758
4980	POC206	Q13303	-0.67818
4981	POC206	Q8NEC7	-0.16796
4982	POC206	Q9HB14	-1.0115
4983	POC206	Q14191	-0.22712
4984	POC206	Q8WW34	-0.79503
4985	POC206	Q96NR7	-0.047743
4986	POC206	A8K7I4	-1.2635
4987	POC206	Q7RTS3	-0.22951
4988	POC206	Q8NGK6	-1.1763
4989	POC206	Q15056	-0.22864
4990	POC206	Q9UPS6	-0.22638
4991	POC206	P40313	-0.8942
4992	POC206	O60939	-0.74254
4993	POC206	Q4KMX7	-0.33732
4994	POC206	Q8TDJ6	-0.41198
4995	POC206	Q3MIT2	-0.22444
4996	POC206	Q9UBC5	-0.26849
4997	POC206	Q9H992	-0.29043
4998	POC206	Q96BM0	-0.79503
4999	POC206	Q5VTL7	-0.80952
5000	POC206	Q9UQC9	-1.4057
5001	POC206	Q9H1F0	-0.75923
5002	POC206	Q96RB7	-1.1763
5003	POC206	Q9H0X6	-0.22329
5004	POC206	Q8N7U9	-0.032616
5005	POC206	Q14393	-0.28216
5006	POC206	Q96RY7	-0.16514
5007	POC206	Q9H3R2	-1.4139
5008	POC206	Q86UW8	-1.0334
5009	POC206	Q08554	-1.038
5010	POC206	Q641Q3	-0.80952
5011	POC206	Q9BXA9	-0.18864
5012	POC206	P11150	-0.74593
5013	POC206	O75899	-0.84421
5014	POC206	Q8NGL4	-1.1763
5015	POC206	Q9H939	-0.21872
5016	POC206	Q9NPC8	-0.23279

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5018	P0C206	O15400	-0.79627
5019	P0C206	P01730	-0.38032
5020	P0C206	P30491	-0.99995
5021	P0C206	Q9Y5Y3	-1.2448
5022	P0C206	A6PVS8	-0.22576
5023	P0C206	P21333	-0.23088
5024	P0C206	A8MWV9	-0.79503
5025	P0C206	Q8NET8	-0.80994
5026	P0C206	P49682	-1.0627
5027	P0C206	O95428	-1.0278
5028	P0C206	Q9BT09	-0.28135
5029	P0C206	Q9BRJ9	-0.2275
5030	P0C206	Q96DN2	-0.88269
5031	P0C206	Q86SG4	-0.13037
5032	P0C206	Q7L1I2	-0.66307
5033	P0C206	Q6UWE0	-0.22765
5034	P0C206	P15735	-0.55021
5035	P0C206	P78509	-0.57324
5036	P0C206	Q8NBP7	-0.32146
5037	P0C206	Q07001	-0.85232
5038	P0C206	Q14108	-1.192
5039	P0C206	Q9UBM8	-0.45156
5040	P0C206	Q2WGJ8	-0.79503
5041	P0C206	P30498	-0.99995
5042	P0C206	O75128	-0.6255
5043	P0C206	Q9H270	-0.22671
5044	P0C206	Q9Y6T7	-0.80939
5045	P0C206	P52797	-0.54062
5046	P0C206	Q6P4I2	-0.18576
5047	P0C206	P18463	-0.99995
5048	P0C206	O14562	-0.14113
5049	P0C206	Q96HP0	-0.051691
5050	P0C206	Q8N7E2	-0.32564
5051	P0C206	O95760	-0.10144
5052	P0C206	P16284	-0.44718
5053	P0C206	Q8N6R0	-0.30069
5054	P0C206	Q96GW7	-0.89518
5055	P0C206	Q6ZUX7	-0.79503
5056	P0C206	P78329	-0.22913
5057	P0C206	Q13574	-0.22741
5058	P0C206	O15409	-0.45919
5059	P0C206	Q9NRZ5	-0.75988
5060	P0C206	A6NL26	-1.1763
5061	P0C206	Q5K651	-0.16092
5062	P0C206	O43291	-0.9512
5063	P0C206	A8K4G0	-0.91833
5064	P0C206	P12821	-0.72979
5065	P0C206	Q9BVQ7	-0.67313
5066	P0C206	Q29718	-0.99995
5067	P0C206	Q96ND0	-0.62349
5068	P0C206	Q9BYN0	-0.67624
5069	P0C206	O60502	-0.0051398
5070	P0C206	P43354	-0.24246
5071	P0C206	Q9HCN4	-0.85366
5072	P0C206	O75140	-0.46207
5073	P0C206	P0CK96	-0.79503
5074	P0C206	Q8NH55	-1.1763
5075	P0C206	Q8N9I9	-0.22745
5076	P0C206	Q8N755	-0.79503
5077	P0C206	Q9P0V8	-0.80743
5078	P0C206	Q9BQ24	-0.13237
5079	P0C206	P58400	-0.56932
5080	P0C206	P04114	-0.31047
5081	P0C206	Q9NYD6	-0.31415
5082	P0C206	Q96S15	-0.30322
5083	P0C206	Q17R89	-0.33462
5084	P0C206	P51790	-0.31272
5085	P0C206	P12429	-0.38426
5086	P0C206	Q8N6F8	-0.015171
5087	P0C206	Q86VQ3	-0.22806
5088	P0C206	P35222	-0.22932
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5091	P0C206	A8MT33	-0.22469
5092	P0C206	Q8IV42	-0.73393



5093	P0C206	P28906	-0.51904
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5095	P0C206	P57682	-0.22398
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5097	P0C206	P08F94	-0.22273
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5105	P0C206	Q8NGE8	-1.1763
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5108	P0C206	Q9UF33	-1.1355
5109	P0C206	Q9UQ88	-0.14237
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5112	P0C206	Q8ND30	-0.57228
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5115	P0C206	Q92854	-0.52505
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5117	P0C206	P59646	-0.839
5118	P0C206	Q96L46	-0.29171
5119	P0C206	P54132	-0.22571
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5121	P0C206	Q9P1U1	-0.67942
5122	P0C206	P10176	-0.47872
5123	P0C206	Q6P474	-0.44585
5124	P0C206	Q9Y6I9	-0.80952
5125	P0C206	Q9Y366	-0.19028
5126	P0C206	P37173	-0.3732
5127	P0C206	A8MVZ5	-0.79503
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5129	P0C206	P20933	-0.29108
5130	P0C206	O43174	-0.70609
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5135	P0C206	P35968	-0.38753
5136	P0C206	Q8N6L1	-0.56336
5137	P0C206	Q03154	-0.13831
5138	P0C206	O43761	-0.66137
5139	P0C206	Q86VW2	-0.55838
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5143	P0C206	Q9UGQ2	-0.55354
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5148	P0C206	A6NHG9	-1.1763
5149	P0C206	Q9UJ71	-1.1097
5150	P0C206	P0C0S5	-0.72568
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5161	P0C206	P55290	-0.66232
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5163	P0C206	Q9GZK6	-1.1763
5164	P0C206	P04118	-0.74165
5165	P0C206	Q17RB8	-0.33376
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5172	POC206	Q96I76	-0.2446
5173	POC206	Q8NG80	-1.0483
5174	POC206	P28223	-0.69818
5175	POC206	Q6IC98	-0.60169
5176	POC206	Q96J77	-0.18647
5177	POC206	Q96CT2	-0.19978
5178	POC206	O43795	-0.31226
5179	POC206	P51884	-0.60284
5180	POC206	Q6IAN0	-1.2913
5181	POC206	Q9NR61	-0.89517
5182	POC206	Q15149	-0.2285
5183	POC206	O43820	-0.66862
5184	POC206	Q17R60	-0.95861
5185	POC206	P49821	-0.30616
5186	POC206	Q06945	-0.23828
5187	POC206	Q8TB33	-0.11927
5188	POC206	Q8IZJ0	-0.84266
5189	POC206	Q8NFU5	-0.36415
5190	POC206	O60404	-1.1763
5191	POC206	P41222	-0.23342
5192	POC206	P01282	-0.65605
5193	POC206	O43497	-0.77816
5194	POC206	Q96N35	-0.79503
5195	POC206	A4D2P6	-0.25996
5196	POC206	O60229	-0.98239
5197	POC206	P30048	-0.20615
5198	POC206	P53384	-0.15547
5199	POC206	Q6DN14	-0.78942
5200	POC206	O15294	-0.22623
5201	POC206	Q9NZU1	-1.0915
5202	POC206	Q9P2F8	-0.89897
5203	POC206	Q9Y493	-1.0501
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5205	POC206	P07098	-0.80713
5206	POC206	Q8WYK0	-0.13808
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5208	POC206	P98095	-0.9591
5209	POC206	Q53RY4	-0.79503
5210	POC206	Q15746	-0.47486
5211	POC206	P48681	-0.13921
5212	POC206	Q9BV23	-0.69144
5213	POC206	Q9NY25	-0.83674
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5215	POC206	Q92835	-0.22741
5216	POC206	Q7Z5L7	-0.71111
5217	POC206	Q9UPX6	-0.79503
5218	POC206	Q96P11	-0.20034
5219	POC206	Q8TB73	-0.79296
5220	POC206	P26374	-0.59018
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5222	POC206	O95382	-1.1997
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5224	POC206	Q86YV0	-0.41964
5225	POC206	P03999	-1.3019
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5227	POC206	Q9NV64	-0.79503
5228	POC206	Q86UE8	-0.22741
5229	POC206	Q6IQ20	-0.34828
5230	POC206	Q8N7C7	-0.73705
5231	POC206	Q9UM44	-0.57403
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5233	POC206	Q9H792	-0.42816
5234	POC206	P00918	-0.1575
5235	POC206	A0PJY2	-0.0465
5236	POC206	P26010	-1.1852
5237	POC206	O75443	-0.99293
5238	POC206	P55773	-1.0898
5239	POC206	Q9H0P7	-0.080077
5240	POC206	P68366	-0.50369
5241	POC206	Q4KMP7	-1.0903
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5243	POC206	Q9Y496	-0.36581
5244	POC206	Q9NZR1	-0.21322

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5246	P0C206	Q13467	-0.37959
5247	P0C206	P38571	-0.45539
5248	P0C206	Q9H3S4	-0.43104
5249	P0C206	Q8NH69	-1.1763
5250	P0C206	Q8TAA9	-0.35996
5251	P0C206	O43166	-0.22802
5252	P0C206	P41968	-0.82671
5253	P0C206	Q8TDU5	-1.1833
5254	P0C206	Q96LK8	-0.021229
5255	P0C206	Q75LS8	-0.31614
5256	P0C206	P04234	-0.43683
5257	P0C206	Q9BUY7	-0.29182
5258	P0C206	A6NG13	-0.7425
5259	P0C206	P16233	-0.71812
5260	P0C206	F5H4A9	-0.79503
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5262	P0C206	Q9H223	-0.23491
5263	P0C206	P43403	-0.46385
5264	P0C206	P17405	-0.29014
5265	P0C206	Q6UVW9	-0.32754
5266	P0C206	P14174	-0.27091
5267	P0C206	O60234	-0.55643
5268	P0C206	Q8NFZ6	-1.1833
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5270	P0C206	A6NNL5	-0.80952
5271	P0C206	O94955	-0.28135
5272	P0C206	Q9BY76	-0.45071
5273	P0C206	O15479	-0.1267
5274	P0C206	Q8WZ64	-0.90132
5275	P0C206	Q9BZW8	-0.49131
5276	P0C206	Q8WW32	-0.38487
5277	P0C206	Q2WGN9	-0.32146
5278	P0C206	Q9Y5F2	-1.1831
5279	P0C206	Q9BZ67	-0.16872
5280	P0C206	Q96J92	-0.83267
5281	P0C206	Q8N428	-0.49488
5282	P0C206	Q9Y4G8	-0.96099
5283	P0C206	P0C7W6	-0.092277
5284	P0C206	Q2I0M5	-0.87541
5285	P0C206	Q8IWW6	-1.083
5286	P0C206	Q9Y548	-0.77738
5287	P0C206	Q9Y6V0	-0.25659
5288	P0C206	Q5BJD5	-0.79503
5289	P0C206	O15034	-0.3577
5290	P0C206	P16152	-0.74633
5291	P0C206	Q86XJ0	-0.79503
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5293	P0C206	Q4AC94	-0.23742
5294	P0C206	Q6U841	-0.75412
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5297	P0C206	P24046	-0.76369
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5301	P0C206	Q13131	-0.27
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5313	P0C206	O00555	-0.30229
5314	P0C206	P16389	-0.7478
5315	P0C206	P0C7P1	-0.60591
5316	P0C206	P56378	-0.43134
5317	P0C206	P51679	-1.2665
5318	P0C206	Q96QS6	-1.13
5319	P0C206	A6NMS3	-1.1763
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5325	POC206	Q15726	-0.13902
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5328	POC206	Q9Y4C0	-0.99032
5329	POC206	Q14943	-1.0619
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5332	POC206	A6NGN9	-0.80952
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5336	POC206	Q8N442	-0.61891
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5338	POC206	P54296	-0.46301
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5340	POC206	O14944	-0.48631
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5342	POC206	P34995	-1.2806
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5344	POC206	Q92619	-0.9548
5345	POC206	Q9UH73	-0.10016
5346	POC206	Q16659	-0.22741
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5349	POC206	Q9NUQ2	-0.65899
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5353	POC206	Q96M94	-0.23335
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5355	POC206	P58166	-0.6947
5356	POC206	A8MY62	-0.25739
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5358	POC206	Q9Y6R7	-0.21821
5359	POC206	Q0JRZ9	-0.22401
5360	POC206	Q6UWU2	-0.70723
5361	POC206	Q496J9	-0.66454
5362	POC206	Q8N6W0	-0.34533
5363	POC206	O60519	-0.15145
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5365	POC206	A6NML5	-0.79503
5366	POC206	O94819	-0.21427
5367	POC206	Q8N5Z5	-0.14217
5368	POC206	P23942	-0.94965
5369	POC206	Q86YB7	-0.4898
5370	POC206	Q75365	-0.76647
5371	POC206	Q6ZWI9	-0.22781
5372	POC206	Q96LB2	-1.2027
5373	POC206	Q9H2R5	-1.3203
5374	POC206	Q8TCV5	-0.75923
5375	POC206	Q9UJM8	-0.71922
5376	POC206	P25942	-0.52311
5377	POC206	Q6ZMS4	-0.46721
5378	POC206	Q9Y442	-0.79503
5379	POC206	Q99570	-0.41373
5380	POC206	O00270	-1.3861
5381	POC206	Q8WXH2	-0.79322
5382	POC206	Q9NRD0	-0.22617
5383	POC206	Q9BYV6	-0.22734
5384	POC206	O60347	-1.2801
5385	POC206	Q8NFW5	-0.18128
5386	POC206	P82251	-0.91449
5387	POC206	P98077	-0.22741
5388	POC206	Q6ZN18	-0.47073
5389	POC206	Q8IYK4	-0.2784
5390	POC206	Q9Y235	-0.42528
5391	POC206	Q02318	-0.4009
5392	POC206	Q96LM5	-0.036893
5393	POC206	P36383	-0.89472
5394	POC206	Q7Z4L5	-0.42806
5395	POC206	Q16696	-0.75353
5396	POC206	Q9UKJ1	-0.83714

5397	P0C206	Q9GZNO	-1.1595
5398	P0C206	Q5BKU6	-0.050044
5399	P0C206	Q8N1C3	-0.70236
5400	P0C206	Q8N3T1	-0.59455
5401	P0C206	P13987	-0.41711
5402	P0C206	Q86U37	-0.13869
5403	P0C206	P49888	-0.22422
5404	P0C206	Q7Z7J9	-0.45665
5405	P0C206	Q9H987	-0.22709
5406	P0C206	Q92902	-0.27019
5407	P0C206	Q8TD91	-0.093462
5408	P0C206	Q6JVE9	-0.74965
5409	P0C206	Q15345	-0.23335
5410	P0C206	Q9Y6M0	-0.70721
5411	P0C206	C9JDV5	-0.053206
5412	P0C206	Q8WY07	-0.8037
5413	P0C206	Q9BY64	-0.91173
5414	P0C206	P0DJ07	-0.62349
5415	P0C206	O95750	-0.38809
5416	P0C206	P35590	-1.0405
5417	P0C206	Q9NUE0	-0.80265
5418	P0C206	Q9Y289	-0.76105
5419	P0C206	P11487	-0.33718
5420	P0C206	Q9NR34	-0.60054
5421	P0C206	Q5EBL8	-0.22662
5422	P0C206	Q9BYT3	-0.64737
5423	P0C206	P54849	-1.1172
5424	P0C206	Q86SI9	-0.80952
5425	P0C206	P50406	-0.85567
5426	P0C206	A8MVU1	-0.22741
5427	P0C206	Q7Z6M1	-0.22477
5428	P0C206	Q96A72	-0.087451
5429	P0C206	Q01970	-0.30446
5430	P0C206	Q14CB8	-0.71566
5431	P0C206	P28566	-1.2869
5432	P0C206	O95747	-1.0645
5433	P0C206	Q5JRX3	-0.13872
5434	P0C206	Q53HC9	-0.22722
5435	P0C206	P60893	-1.2448
5436	P0C206	Q8IVY1	-0.79503
5437	P0C206	O95994	-0.14022
5438	P0C206	Q6YI46	-0.79503
5439	P0C206	P49683	-1.2195
5440	P0C206	Q13451	-0.53912
5441	P0C206	Q15669	-0.22562
5442	P0C206	O00487	-0.23995
5443	P0C206	Q16760	-0.51481
5444	P0C206	Q96KJ4	-0.98895
5445	P0C206	Q8NC24	-1.0018
5446	P0C206	P54646	-0.26313
5447	P0C206	Q8NH53	-1.1763
5448	P0C206	Q92685	-0.79276
5449	P0C206	Q8IZF0	-0.89928
5450	P0C206	Q8WV35	-0.20533
5451	P0C206	Q8N9N7	-0.24091
5452	P0C206	Q16674	-0.82916
5453	P0C206	Q5VYY2	-0.81079
5454	P0C206	P43003	-0.58834
5455	P0C206	P08588	-0.68291
5456	P0C206	Q9NPF2	-0.31864
5457	P0C206	Q5R387	-0.8213
5458	P0C206	P62684	-0.15319
5459	P0C206	O00237	-0.54551
5460	P0C206	Q14680	-0.49414
5461	P0C206	Q9H4G0	-0.26961
5462	P0C206	Q9BSA4	-0.35153
5463	P0C206	P07510	-0.96336
5464	P0C206	P28827	-0.51436
5465	P0C206	P35523	-0.88293
5466	P0C206	Q96P65	-1.2135
5467	P0C206	Q04844	-0.96535
5468	P0C206	Q9BUU2	-0.20034
5469	P0C206	Q9NP08	-0.228
5470	P0C206	Q96FN5	-0.39587
5471	P0C206	Q8IVW6	-0.20508
5472	P0C206	Q96PB7	-0.73932

5473	P0C206	Q8NBJ5	-0.2784
5474	P0C206	P40227	-0.29452
5475	P0C206	Q9Y5I3	-1.6698
5476	P0C206	Q96RD0	-1.1763
5477	P0C206	C9JI98	-0.79503
5478	P0C206	Q9BZ97	-0.79503
5479	P0C206	Q6ZS10	-0.7514
5480	P0C206	O14543	-0.22741
5481	P0C206	Q8IVB4	-0.83741
5482	P0C206	Q16663	-1.1308
5483	P0C206	Q9Y581	-0.64832
5484	P0C206	Q86X59	-0.17755
5485	P0C206	P0DKB6	-0.79503
5486	P0C206	Q5JSP0	-0.6584
5487	P0C206	Q13326	-0.43877
5488	P0C206	Q9H3G5	-0.55959
5489	P0C206	Q5T292	-0.79503
5490	P0C206	Q9NYT0	-0.37089
5491	P0C206	Q9H6S3	-0.22741
5492	P0C206	Q8IY84	-1.1849
5493	P0C206	Q96IX9	-0.16509
5494	P0C206	Q58FG0	-0.4889
5495	P0C206	Q9UHA7	-0.90583
5496	P0C206	O43854	-1.2166
5497	P0C206	Q9N2K0	-0.53771
5498	P0C206	Q9UP52	-0.98255
5499	P0C206	P49771	-1.4806
5500	P0C206	Q14796	-0.47619
5501	P0C206	O95988	-0.22752
5502	P0C206	O95670	-0.22294
5503	P0C206	Q8NA56	-0.022842
5504	P0C206	Q4VXA5	-0.82731
5505	P0C206	Q9UPE1	-1.1015
5506	P0C206	P16473	-0.68739
5507	P0C206	Q96RU3	-0.22741
5508	P0C206	Q9UPS8	-0.22738
5509	P0C206	Q96HE8	-0.79503
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5512	P0C206	P15289	-0.54052
5513	P0C206	Q9UBK5	-0.92567
5514	P0C206	P01815	-0.9894
5515	P0C206	Q9GZU0	-0.43048
5516	P0C206	Q6NW34	-0.79503
5517	P0C206	Q02297	-0.25508
5518	P0C206	Q9QC07	-0.2659
5519	P0C206	P0C862	-0.85493
5520	P0C206	Q6GPH6	-0.79503
5521	P0C206	Q9BS86	-0.7942
5522	P0C206	Q8TCW9	-1.2135
5523	P0C206	Q14166	-0.1745
5524	P0C206	Q75600	-0.099447
5525	P0C206	E2RYF7	-0.80952
5526	P0C206	P08962	-0.5442
5527	P0C206	Q8WU17	-0.43248
5528	P0C206	P51810	-0.41362
5529	P0C206	Q7Z3Q1	-0.80137
5530	P0C206	Q9NVX7	-0.22359
5531	P0C206	P23435	-0.71373
5532	P0C206	P22307	-0.19837
5533	P0C206	P37059	-1.2534
5534	P0C206	Q9HA64	-0.49258
5535	P0C206	Q96SU4	-0.60853
5536	P0C206	Q5GH77	-0.91833
5537	P0C206	Q5GAN4	-0.8151
5538	P0C206	O95620	-0.59265
5539	P0C206	Q9UGT4	-0.81442
5540	P0C206	P24043	-0.828
5541	P0C206	Q8N0Y5	-1.1763
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5543	P0C206	Q8N3F9	-0.79503
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5545	P0C206	P43080	-0.63795
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5547	P0C206	P53667	-0.22741
5548	P0C206	Q9NXN4	-0.20633

5549	P0C206	A4QPH2	-0.5893
5550	P0C206	Q9H5Z1	-0.74966
5551	P0C206	P51843	-0.22725
5552	P0C206	A6NGZ7	-0.79503
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5554	P0C206	O75715	-1.1851
5555	P0C206	Q96G91	-1.1412
5556	P0C206	Q9BXI3	-0.28825
5557	P0C206	Q99965	-1.0814
5558	P0C206	P32321	-0.17818
5559	P0C206	Q7Z692	-0.79503
5560	P0C206	Q53GD3	-0.75708
5561	P0C206	Q9Y388	-0.83583
5562	P0C206	O75364	-0.1634
5563	P0C206	P39210	-0.52754
5564	P0C206	Q08257	-0.47466
5565	P0C206	Q96QB1	-0.30018
5566	P0C206	Q86YS7	-0.42973
5567	P0C206	Q8TC44	-0.22721
5568	P0C206	Q9P035	-1.208
5569	P0C206	Q96DC9	-0.6186
5570	P0C206	A6NF89	-1.1763
5571	P0C206	Q06141	-0.8977
5572	P0C206	Q6IC83	-0.24547
5573	P0C206	P31513	-0.92859
5574	P0C206	O43612	-0.40809
5575	P0C206	P11047	-0.85704
5576	P0C206	Q9HBE5	-0.76776
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5578	P0C206	Q8TDU6	-1.2448
5579	P0C206	P35555	-0.6985
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5583	P0C206	Q8NGY5	-1.1763
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5585	P0C206	O75881	-0.60878
5586	P0C206	Q92959	-0.95465
5587	P0C206	P04746	-0.73426
5588	P0C206	Q5ZPR3	-0.33483
5589	P0C206	Q38SD2	-1.2656
5590	P0C206	O75541	-0.23908
5591	P0C206	A6NGB7	-0.79503
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5593	P0C206	Q8NA75	-0.22722
5594	P0C206	O43929	-0.085488
5595	P0C206	Q8N165	-0.89443
5596	P0C206	Q5T9C9	-0.85019
5597	P0C206	Q9P1W8	-0.51301
5598	P0C206	Q9Y625	-1.0679
5599	P0C206	Q8IVP5	-0.15542
5600	P0C206	Q9BYW1	-0.65502
5601	P0C206	P05013	-0.63478
5602	P0C206	Q76I76	-0.48013
5603	P0C206	P49675	-0.33223
5604	P0C206	Q53QZ3	-0.90434
5605	P0C206	M0R1G4	-0.052372
5606	P0C206	P07099	-0.78909
5607	P0C206	Q8IWL1	-0.95961
5608	P0C206	A6NI61	-0.79503
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5610	P0C206	Q9H334	-0.45919
5611	P0C206	Q8WWF6	-0.34475
5612	P0C206	Q6JQN1	-0.69269
5613	P0C206	P51649	-0.41017
5614	P0C206	P51788	-0.72524
5615	P0C206	Q9NZB8	-0.48335
5616	P0C206	Q15526	-0.64239
5617	P0C206	Q8IYT8	-0.73187
5618	P0C206	Q9H078	-0.54016
5619	P0C206	B2RC85	-0.11248
5620	P0C206	Q96IW2	-0.2274
5621	P0C206	P25940	-0.88305
5622	P0C206	Q03692	-0.97726
5623	P0C206	A6NCI4	-0.80952
5624	P0C206	F8VTS6	-0.22743

5625	P0C206	Q4V339	-0.72239
5626	P0C206	P78382	-0.39515
5627	P0C206	Q1X8D7	-0.22674
5628	P0C206	P30874	-0.38585
5629	P0C206	Q9NZ53	-0.50036
5630	P0C206	P58549	-0.83427
5631	P0C206	P62491	-0.2908
5632	P0C206	Q6J9G0	-1.5563
5633	P0C206	P34741	-0.28354
5634	P0C206	A6NM43	-0.52815
5635	P0C206	P00739	-0.94485
5636	P0C206	Q8NGU9	-1.2448
5637	P0C206	Q9H6X2	-0.47366
5638	P0C206	P12235	-0.23525
5639	P0C206	Q5T013	-0.17074
5640	P0C206	P07951	-0.13302
5641	P0C206	P01609	-0.9894
5642	P0C206	A8MT66	-0.056609
5643	P0C206	Q53GL0	-0.030748
5644	P0C206	P19256	-0.58239
5645	P0C206	Q15528	-0.31802
5646	P0C206	Q8NFY9	-0.20871
5647	P0C206	Q9Y4H2	-0.20389
5648	P0C206	Q8N8R5	-0.80952
5649	P0C206	Q8NHV1	-0.92067
5650	P0C206	P22459	-0.47589
5651	P0C206	P28332	-0.43505
5652	P0C206	Q9HBY0	-0.78687
5653	P0C206	Q18PE1	-0.58193
5654	P0C206	Q9H1P6	-0.11238
5655	P0C206	Q14791	-0.52205
5656	P0C206	Q00973	-0.58037
5657	P0C206	Q15238	-0.22791
5658	P0C206	P43246	-0.17133
5659	P0C206	Q969Q4	-0.71318
5660	P0C206	Q13133	-0.23237
5661	P0C206	Q9UQF0	-0.69905
5662	P0C206	Q96LM9	-0.033276
5663	P0C206	Q43193	-1.3537
5664	P0C206	Q8IY50	-0.72669
5665	P0C206	Q8IZ07	-0.22741
5666	P0C206	Q15286	-0.4637
5667	P0C206	Q99661	-0.36581
5668	P0C206	Q86TA4	-0.010524
5669	P0C206	Q6PIS1	-0.72007
5670	P0C206	Q7Z2Q7	-0.79503
5671	P0C206	Q9C0A6	-0.22335
5672	P0C206	Q96L96	-0.58023
5673	P0C206	Q8N414	-0.79503
5674	P0C206	Q6TDP4	-0.57444
5675	P0C206	Q8IY47	-0.2026
5676	P0C206	P55291	-1.0739
5677	P0C206	Q95299	-0.033458
5678	P0C206	Q2VPA4	-0.66159
5679	P0C206	Q9Y279	-0.22742
5680	P0C206	P20930	-0.18929
5681	P0C206	Q9UPM6	-0.22742
5682	P0C206	Q8NCF0	-0.80341
5683	P0C206	A6NEC2	-0.58286
5684	P0C206	Q96F81	-0.73015
5685	P0C206	Q16623	-0.3671
5686	P0C206	Q8N8U9	-0.74345
5687	P0C206	Q8NEV1	-1.0649
5688	P0C206	Q9UEW8	-0.60268
5689	P0C206	Q9ULA0	-0.3551
5690	P0C206	P04220	-0.38101
5691	P0C206	Q9Y5P2	-0.22085
5692	P0C206	P22676	-0.22585
5693	P0C206	Q96HA4	-0.79503
5694	P0C206	C9JPN9	-0.59814
5695	P0C206	Q96S82	-0.22107
5696	P0C206	Q9C0B0	-0.17787
5697	P0C206	Q6IQ55	-0.53741
5698	P0C206	Q9BZM2	-0.65276
5699	P0C206	Q5I0X7	-0.27195
5700	P0C206	Q8NH16	-1.0483



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5703	P0C206	Q8N7X8	-0.79503
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5705	P0C206	P20916	-0.86566
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5707	P0C206	Q9UDX3	-1.0025
5708	P0C206	Q9H8M5	-0.83789
5709	P0C206	Q9NRJ5	-0.13422
5710	P0C206	P62330	-0.40073
5711	P0C206	P43119	-1.0023
5712	P0C206	Q9GZQ8	-0.1767
5713	P0C206	P04632	-0.23326
5714	P0C206	A6NC98	-0.15663
5715	P0C206	Q8IYA7	-0.26538
5716	P0C206	P55318	-0.37245
5717	P0C206	Q15057	-0.77452
5718	P0C206	P09769	-0.54326
5719	P0C206	P61106	-0.30623
5720	P0C206	Q86YJ7	-0.22741
5721	P0C206	Q9H115	-0.068752
5722	P0C206	Q7Z3E5	-0.22728
5723	P0C206	Q15438	-0.22741
5724	P0C206	Q5XX13	-0.22772
5725	P0C206	Q8N9C0	-0.22748
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5727	P0C206	P54619	-0.39836
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5729	P0C206	A6ND01	-0.79164
5730	P0C206	Q969R2	-0.70235
5731	P0C206	O00626	-1.0131
5732	P0C206	Q3B8N2	-0.2154
5733	P0C206	P31273	-0.57015
5734	P0C206	Q5VY43	-0.87067
5735	P0C206	Q9Y4F1	-0.37265
5736	P0C206	P45954	-0.57595
5737	P0C206	P57073	-0.38083
5738	P0C206	P10145	-0.55619
5739	P0C206	P04350	-0.16069
5740	P0C206	P60033	-0.30737
5741	P0C206	Q96M19	-0.79503
5742	P0C206	P56180	-1.3368
5743	P0C206	Q8N816	-0.79503
5744	P0C206	Q8N146	-1.1763
5745	P0C206	P54652	-0.22202
5746	P0C206	Q9BTN0	-1.0445
5747	P0C206	Q8TD08	-1.32
5748	P0C206	P48023	-0.25454
5749	P0C206	Q8NGH7	-1.1763
5750	P0C206	Q9Y5Z4	-0.19802
5751	P0C206	Q8IVL0	-0.5059
5752	P0C206	Q92481	-0.18173
5753	P0C206	Q6PIY7	-0.29278
5754	P0C206	Q9NZT1	-0.47789
5755	P0C206	Q86XP1	-0.49434
5756	P0C206	P60509	-0.91833
5757	P0C206	P51164	-0.81392
5758	P0C206	Q4AE62	-0.29256
5759	P0C206	Q9HB31	-0.22682
5760	P0C206	Q92496	-0.90497
5761	P0C206	Q01581	-0.17682
5762	P0C206	P08912	-0.9581
5763	P0C206	P0C7T8	-0.79503
5764	P0C206	P03915	-0.5706
5765	P0C206	Q5R3K3	-0.79503
5766	P0C206	P78415	-0.23779
5767	P0C206	O60391	-0.75831
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5769	P0C206	Q86TI2	-0.31267
5770	P0C206	Q5RIA9	-0.72239
5771	P0C206	O95858	-0.95247
5772	P0C206	Q8IVV8	-0.91833
5773	P0C206	Q8NCG5	-0.61826
5774	P0C206	Q8N183	-0.19845
5775	P0C206	Q8NGI1	-1.1763
5776	P0C206	Q6H9L7	-0.25831

5777	P0C206	P32119	-0.3383
5778	P0C206	P08620	-0.63325
5779	P0C206	P82987	-1.0186
5780	P0C206	Q7Z5L3	-0.95488
5781	P0C206	Q9ULR3	-0.32902
5782	P0C206	Q6UX73	-0.80952
5783	P0C206	P49802	-0.28537
5784	P0C206	Q03591	-0.89411
5785	P0C206	A1A4S6	-0.24111
5786	P0C206	Q9H3Y8	-0.52676
5787	P0C206	Q9UJF2	-0.41964
5788	P0C206	P22079	-1.0889
5789	P0C206	P14854	-0.11031
5790	P0C206	Q30KQ5	-0.77981
5791	P0C206	Q9UHV5	-0.7454
5792	P0C206	Q9UI46	-0.22761
5793	P0C206	P13598	-1.1274
5794	P0C206	Q13608	-0.26442
5795	P0C206	Q16586	-0.56225
5796	P0C206	Q86TM6	-0.23053
5797	P0C206	Q75955	-0.23685
5798	P0C206	A6NKG5	-1.0008
5799	P0C206	Q95992	-0.81067
5800	P0C206	Q5VST9	-0.82351
5801	P0C206	P43235	-0.5799
5802	P0C206	Q8N162	-1.1763
5803	P0C206	O95528	-0.36689
5804	P0C206	P43004	-0.54818
5805	P0C206	Q86YT9	-0.81892
5806	P0C206	Q9H3S5	-0.78254
5807	P0C206	O43175	-0.86909
5808	P0C206	Q5THJ4	-0.26705
5809	P0C206	Q9C0B5	-0.87953
5810	P0C206	Q8NA66	-0.1528
5811	P0C206	Q5U4P2	-0.99431
5812	P0C206	P10826	-0.23537
5813	P0C206	Q9UPQ0	-0.22721
5814	P0C206	P78334	-0.76589
5815	P0C206	P05113	-0.24964
5816	P0C206	Q6B9Z1	-0.80952
5817	P0C206	P00740	-1.1607
5818	P0C206	P32249	-1.1984
5819	P0C206	P09683	-0.7095
5820	P0C206	Q8N4T4	-0.72993
5821	P0C206	Q96DL1	-0.79503
5822	P0C206	Q8TD84	-0.96369
5823	P0C206	P04899	-0.32261
5824	P0C206	Q99946	-0.79976
5825	P0C206	O96014	-0.38217
5826	P0C206	Q9UNF1	-0.058963
5827	P0C206	P20160	-0.77272
5828	P0C206	P16070	-0.26419
5829	P0C206	Q9H336	-0.80952
5830	P0C206	Q8NA34	-0.13953
5831	P0C206	Q09472	-0.1411
5832	P0C206	Q71U36	-0.18494
5833	P0C206	Q8N3J6	-1.1002
5834	P0C206	P18509	-0.66645
5835	P0C206	Q96LT4	-0.74681
5836	P0C206	Q6P3S6	-0.22669
5837	P0C206	P50226	-0.19673
5838	P0C206	P54107	-0.86215
5839	P0C206	Q5T8R8	-0.27721
5840	P0C206	Q9UNQ0	-0.50374
5841	P0C206	Q86UP6	-0.50697
5842	P0C206	P49069	-0.2543
5843	P0C206	P16885	-0.22741
5844	P0C206	Q08426	-0.38702
5845	P0C206	P05019	-0.22465
5846	P0C206	Q9BTE0	-0.17432
5847	P0C206	Q494W8	-0.76562
5848	P0C206	P07306	-0.46609
5849	P0C206	Q8N2Q7	-0.36023
5850	P0C206	Q5VUM1	-0.63209
5851	P0C206	O60487	-0.34115
5852	P0C206	Q5GAN6	-0.8151

5853	P0C206	Q9NY56	-0.67592
5854	P0C206	Q16695	-0.19605
5855	P0C206	P30968	-1.4195
5856	P0C206	Q9UKI2	-0.36491
5857	P0C206	Q9UQG0	-0.20444
5858	P0C206	Q95967	-0.52244
5859	P0C206	P07205	-0.45674
5860	P0C206	Q5T4F7	-0.7343
5861	P0C206	Q9HD23	-0.66834
5862	P0C206	A6NIJ9	-1.1763
5863	P0C206	Q9Y519	-0.79503
5864	P0C206	P60008	-0.54816
5865	P0C206	P06858	-0.49159
5866	P0C206	Q9Y426	-0.33013
5867	P0C206	P00846	-0.41502
5868	P0C206	Q16625	-0.22371
5869	P0C206	Q9NWD8	-0.79503
5870	P0C206	Q9P0B6	-0.79503
5871	P0C206	P18462	-0.98682
5872	P0C206	P10606	-0.082649
5873	P0C206	P28067	-0.66314
5874	P0C206	Q6NT16	-0.73598
5875	P0C206	Q9H195	-0.82987
5876	P0C206	P11586	-0.39062
5877	P0C206	Q96A83	-1.0059
5878	P0C206	Q8NEA4	-0.12995
5879	P0C206	Q8IV08	-0.36898
5880	P0C206	Q5J TZ9	-0.25136
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5884	P0C206	P28068	-0.8679
5885	P0C206	P43628	-0.54825
5886	P0C206	Q9P246	-0.47054
5887	P0C206	Q6PIL6	-0.85032
5888	P0C206	Q92478	-0.94191
5889	P0C206	Q9H313	-0.71127
5890	P0C206	P56750	-0.53983
5891	P0C206	Q95661	-0.71243
5892	P0C206	P0CI26	-0.44814
5893	P0C206	Q6RI45	-0.22792
5894	P0C206	Q96MF2	-0.50158
5895	P0C206	Q9P0I2	-0.56336
5896	P0C206	Q8IUK8	-0.79503
5897	P0C206	P59541	-1.1287
5898	P0C206	Q6V1X1	-0.17585
5899	P0C206	P43353	-0.41651
5900	P0C206	Q15403	-0.92922
5901	P0C206	P23946	-1.4252
5902	P0C206	Q95197	-0.37864
5903	P0C206	P49411	-0.68724
5904	P0C206	P35212	-0.85069
5905	P0C206	Q96G97	-0.56556
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5908	P0C206	Q96E52	-0.74382
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5912	P0C206	P50552	-0.20981
5913	P0C206	Q9BZC7	-0.95206
5914	P0C206	Q7Z2Z2	-0.5753
5915	P0C206	P49862	-1.2717
5916	P0C206	Q8TDW4	-0.77272
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5919	P0C206	Q8WUU4	-0.22322
5920	P0C206	Q8IZR5	-0.85091
5921	P0C206	P39877	-0.59953
5922	P0C206	P04054	-0.51941
5923	P0C206	Q15166	-0.71292
5924	P0C206	B1AK53	-0.37482
5925	P0C206	O15033	-0.57621
5926	P0C206	Q9P2E2	-0.25301
5927	P0C206	Q5W150	-0.32705
5928	P0C206	P0C7Q6	-0.79503

5929	P0C206	Q86TD4	-0.39006
5930	P0C206	Q14954	-0.97794
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5932	P0C206	O00560	-0.22738
5933	P0C206	O75563	-0.28968
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5936	P0C206	O00244	-0.21543
5937	P0C206	A6NL28	-0.1769
5938	P0C206	Q8NGZ5	-1.1763
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5941	P0C206	Q5R372	-0.89242
5942	P0C206	O95980	-0.42635
5943	P0C206	Q96RL6	-0.97776
5944	P0C206	Q5QJ38	-0.29182
5945	P0C206	Q9HAR2	-1.2548
5946	P0C206	Q6ZQW0	-0.19958
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5948	P0C206	Q68D42	-0.79503
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5959	P0C206	Q8N5U1	-0.79503
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5961	P0C206	Q8IZ08	-1.2448
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5965	P0C206	Q9P2R3	-0.22741
5966	P0C206	P62699	-0.41339
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5970	P0C206	A8MV81	-0.79503
5971	P0C206	P01037	-0.87562
5972	P0C206	P49758	-0.56747
5973	P0C206	Q6ZNB7	-1.0306
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5981	P0C206	P68431	-0.41989
5982	P0C206	Q9UK17	-0.98649
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5985	P0C206	P63316	-0.22414
5986	P0C206	Q5W0Z9	-0.77292
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5996	P0C206	P15248	-0.74231
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6002	P0C206	Q8NGF8	-1.1763
6003	P0C206	Q56A73	-0.20127
6004	P0C206	A4D0S4	-1.1496

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6006	P0C206	Q96I85	-0.80952
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6010	P0C206	Q9UHD8	-0.22293
6011	P0C206	Q9UH17	-0.48087
6012	P0C206	P01780	-0.9894
6013	P0C206	Q96B70	-0.52145
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6016	P0C206	P13945	-0.41505
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6021	P0C206	Q6UXI7	-0.87734
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6023	P0C206	P61567	-0.6451
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6029	P0C206	Q9UNP4	-0.56993
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6033	P0C206	Q9NXH9	-0.17017
6034	P0C206	P18507	-0.41316
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6039	P0C206	Q93088	-0.14249
6040	P0C206	Q8NHM4	-1.2853
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6043	P0C206	P78356	-0.39016
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6047	P0C206	Q9HC58	-0.91666
6048	P0C206	Q6PEW0	-0.79979
6049	P0C206	Q9NQT5	-0.4684
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6051	P0C206	Q7Z3J2	-0.79503
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6058	P0C206	Q5VZY2	-0.78768
6059	P0C206	Q15907	-0.64213
6060	P0C206	Q9Y223	-0.62697
6061	P0C206	Q8IZU8	-0.7697
6062	P0C206	O14672	-0.30118
6063	P0C206	Q8N3E9	-0.40567
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6073	P0C206	P30038	-0.39342
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6078	P0C206	P42338	-0.44265
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6085	P0C206	Q9NX74	-0.55299
6086	P0C206	Q9Y4F9	-0.26986
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6088	P0C206	Q969F0	-0.7666
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6105	P0C206	Q5SQI0	-0.27923
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6123	P0C206	Q56UQ5	-0.039586
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6131	P0C206	O15072	-1.132
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6147	P0C206	Q969Y2	-0.85188
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6154	P0C206	P49238	-0.60633
6155	P0C206	P01593	-0.9894
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6157	POC206	Q9BSA9	-0.79503
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6159	POC206	Q8NGC0	-1.1763
6160	POC206	Q96KN3	-0.4707
6161	POC206	Q8N6L0	-0.79028
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6172	POC206	Q6MZM9	-0.80952
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6176	POC206	Q9Y5X3	-0.58299
6177	POC206	C9JUS6	-0.80952
6178	POC206	P20963	-0.12692
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6180	POC206	Q16584	-0.22741
6181	POC206	P09486	-0.2593
6182	POC206	P19224	-0.8389
6183	POC206	Q9BTF0	-0.27222
6184	POC206	Q8NER5	-1.0075
6185	POC206	Q13434	-0.29587
6186	POC206	Q9NYX4	-0.99946
6187	POC206	Q9BZW2	-0.8907
6188	POC206	Q9BXW7	-0.13472
6189	POC206	Q9H1Z8	-0.78656
6190	POC206	O14654	-0.73464
6191	POC206	P78426	-0.22929
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6193	POC206	Q15404	-0.32103
6194	POC206	Q8NBT3	-0.79503
6195	POC206	Q68DE3	-0.2259
6196	POC206	P40205	-0.43999
6197	POC206	Q8NCJ5	-0.18705
6198	POC206	Q969S9	-0.55048
6199	POC206	P09543	-0.36367
6200	POC206	Q8ND23	-0.22683
6201	POC206	Q8NGX6	-1.1763
6202	POC206	Q9UP79	-1.1647
6203	POC206	Q9NVV0	-0.78033
6204	POC206	P25024	-1.1392
6205	POC206	Q3V5L5	-0.58965
6206	POC206	Q6UX15	-0.86988
6207	POC206	Q6PEY0	-0.9183
6208	POC206	P31995	-0.22741
6209	POC206	Q53LP3	-0.22741
6210	POC206	Q9BVA6	-1.0695
6211	POC206	Q96RD6	-0.70557
6212	POC206	Q86UK5	-0.43942
6213	POC206	P0C842	-0.42295
6214	POC206	A6NM45	-0.62814
6215	POC206	Q96M96	-0.84156
6216	POC206	P16615	-0.84922
6217	POC206	P08637	-1.4347
6218	POC206	Q08289	-0.2717
6219	POC206	P43146	-0.29932
6220	POC206	B4DS77	-0.85746
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6223	POC206	P35218	-0.13385
6224	POC206	P23443	-0.19659
6225	POC206	Q9NPI9	-1.0101
6226	POC206	Q4G1C9	-0.79503
6227	POC206	Q9Y334	-0.62908
6228	POC206	Q96LB4	-0.35133
6229	POC206	Q9NYL5	-0.6561
6230	POC206	P51684	-1.1472
6231	POC206	Q92781	-1.0695
6232	POC206	P61328	-0.30657

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6237	P0C206	Q14694	-0.28679
6238	P0C206	Q8IZP2	-0.22697
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6242	P0C206	P35790	-0.73161
6243	P0C206	P41217	-0.51249
6244	P0C206	P10153	-0.79729
6245	P0C206	Q8N8R3	-0.5634
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6252	P0C206	Q96A46	-0.74011
6253	P0C206	Q96D53	-0.88755
6254	P0C206	P33151	-0.58929
6255	P0C206	Q6UX72	-0.65603
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6257	P0C206	O60547	-0.78137
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6260	P0C206	P07359	-0.48016
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6262	P0C206	O43464	-0.22514
6263	P0C206	P48507	-0.23284
6264	P0C206	P15509	-1.5674
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6268	P0C206	O00584	-0.8042
6269	P0C206	Q9H5Q3	-0.79503
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6273	P0C206	Q9Y6A9	-0.60921
6274	P0C206	P56975	-1.2869
6275	P0C206	P16050	-0.20609
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6277	P0C206	Q9H227	-0.22218
6278	P0C206	Q2M3R5	-0.79503
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6280	P0C206	Q8TEQ8	-0.87896
6281	P0C206	P48047	-0.24217
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6283	P0C206	Q2M1P5	-0.31678
6284	P0C206	Q14880	-0.95117
6285	P0C206	Q15195	-0.80952
6286	P0C206	Q86X10	-0.73568
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6291	P0C206	Q9NRS4	-1.2239
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6293	P0C206	Q16819	-1.1975
6294	P0C206	Q8NH00	-1.1763
6295	P0C206	P46459	-0.2347
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6306	P0C206	P51617	-0.22736
6307	P0C206	Q8NG68	-0.62093
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6312	POC206	Q9H1Z9	-0.79503
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6317	POC206	Q8N5K1	-0.21907
6318	POC206	Q8NHB1	-1.1763
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6323	POC206	Q96GS6	-0.76697
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6331	POC206	P35914	-0.34771
6332	POC206	Q8NGT5	-1.1763
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6334	POC206	Q4G0N4	-0.337
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6339	POC206	Q8TD57	-0.46419
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6347	POC206	Q9GZZ7	-0.98053
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6351	POC206	Q8NGX3	-1.1763
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6367	POC206	Q96NR8	-1.2818
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6377	POC206	Q14642	-0.40114
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6384	POC206	Q8NGC3	-1.1763

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6391	POC206	P28482	-0.22741
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6394	POC206	Q9P2L0	-0.22741
6395	POC206	Q14830	-0.21573
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6408	POC206	Q32M88	-0.24262
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6414	POC206	Q8NGS4	-1.1763
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6421	POC206	Q9GZM7	-0.86497
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6423	POC206	Q96PD5	-0.80725
6424	POC206	Q9NT22	-0.69739
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6434	POC206	P0CG32	-0.17787
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6436	POC206	P0DJJ0	-0.23358
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6438	POC206	Q8TCU3	-0.74438
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6441	POC206	Q6NUJ1	-0.95562
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6444	POC206	P61225	-0.87902
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6446	POC206	Q96CN7	-0.45373
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6449	POC206	Q9UNH6	-0.4024
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6460	POC206	Q9UBL9	-0.50154

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6462	P0C206	Q4V326	-0.13445
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6466	P0C206	Q6ZS82	-0.87016
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6468	P0C206	Q96N19	-0.79503
6469	P0C206	P04839	-0.71085
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6471	P0C206	Q6P995	-0.86094
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6476	P0C206	Q8NC01	-1.1934
6477	P0C206	Q8NH83	-1.1763
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6479	P0C206	P01767	-0.9894
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6496	P0C206	Q9H5J0	-0.22732
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6514	P0C206	Q96RR1	-0.14754
6515	P0C206	Q6Q8B3	-0.79503
6516	P0C206	Q96NA8	-0.68925
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6536	P0C206	Q8NH56	-1.1763

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6542	POC206	Q2TAA5	-0.82212
6543	POC206	Q8TCG5	-0.78965
6544	POC206	Q9NW13	-0.26603
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6559	POC206	Q8N7P3	-0.66396
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6565	POC206	P81534	-0.79876
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6576	POC206	Q96F05	-0.79503
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6590	POC206	Q9UM47	-0.23262
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6592	POC206	Q4ZJI4	-0.74837
6593	POC206	Q8IX04	-0.45956
6594	POC206	Q14C86	-0.97152
6595	POC206	Q9HA72	-0.79503
6596	POC206	Q14554	-0.49896
6597	POC206	P19835	-0.48322
6598	POC206	Q9Y6W6	-0.28774
6599	POC206	Q8IWZ4	-0.44814
6600	POC206	Q9BT76	-0.93187
6601	POC206	P0C221	-0.22121
6602	POC206	Q96MT0	-0.40389
6603	POC206	Q9UL63	-0.21754
6604	POC206	Q9UF02	-0.7135
6605	POC206	Q9HBU9	-0.674
6606	POC206	Q9HBJ8	-0.95194
6607	POC206	Q9UPX0	-0.91833
6608	POC206	Q9H3S3	-1.4138
6609	POC206	Q8N878	-0.3937
6610	POC206	P0C628	-1.1763
6611	POC206	O75643	-0.2268
6612	POC206	Q6Y288	-0.76314

6613	P0C206	Q9P2K8	-0.95652
6614	P0C206	Q7RTZ2	-0.30259
6615	P0C206	P43361	-0.092462
6616	P0C206	A6NIK2	-0.23344
6617	P0C206	P58182	-1.1763
6618	P0C206	Q6ZRG5	-0.17123
6619	P0C206	P27658	-1.0685
6620	P0C206	P43308	-0.80264
6621	P0C206	Q8WXS8	-1.127
6622	P0C206	Q14832	-1.0356
6623	P0C206	Q6ZSC3	-0.83583
6624	P0C206	Q9HC98	-0.22877
6625	P0C206	Q8WWF1	-0.80952
6626	P0C206	Q5T9S5	-0.077482
6627	P0C206	Q96RP8	-0.77342
6628	P0C206	P49961	-1.4675
6629	P0C206	Q9P2U7	-0.65293
6630	P0C206	Q8N1N0	-0.88222
6631	P0C206	Q9UL25	-0.28285
6632	P0C206	P0C7V7	-1.0988
6633	P0C206	Q92522	-0.54174
6634	P0C206	Q9NSY1	-0.68308
6635	P0C206	P56962	-0.52565
6636	P0C206	Q96Q45	-0.82154
6637	P0C206	P01148	-0.95173
6638	P0C206	Q5T8P6	-0.19399
6639	P0C206	Q5VW00	-0.22731
6640	P0C206	Q8TE96	-0.34085
6641	P0C206	Q7Z6L0	-0.91853
6642	P0C206	Q9HBW9	-1.3087
6643	P0C206	Q8NEN9	-0.22741
6644	P0C206	Q5VU13	-0.79503
6645	P0C206	P11233	-0.22762
6646	P0C206	P24821	-1.1193
6647	P0C206	P20592	-0.24068
6648	P0C206	P40198	-0.79503
6649	P0C206	Q86VY9	-0.79503
6650	P0C206	P24468	-0.24633
6651	P0C206	Q6ZWL3	-1.1567
6652	P0C206	Q9UHF3	-0.91547
6653	P0C206	Q9BXR3	-0.20444
6654	P0C206	Q5T0T0	-0.80086
6655	P0C206	A8MTL3	-0.15207
6656	P0C206	Q9UBQ7	-0.64033
6657	P0C206	Q92963	-0.58906
6658	P0C206	Q16698	-0.20337
6659	P0C206	P43155	-0.43009
6660	P0C206	Q9HBL6	-0.79503
6661	P0C206	Q8IYA2	-0.1835
6662	P0C206	P19087	-0.83615
6663	P0C206	Q9BVH7	-0.60521
6664	P0C206	P35913	-0.36049
6665	P0C206	A6NER0	-1.2801
6666	P0C206	P02768	-0.21449
6667	P0C206	Q9BY71	-0.22777
6668	P0C206	Q86SG5	-0.2546
6669	P0C206	Q8TF08	-0.58959
6670	P0C206	Q8N688	-0.77981
6671	P0C206	Q96RP7	-0.56164
6672	P0C206	P67936	-0.23504
6673	P0C206	Q68DV7	-0.25788
6674	P0C206	Q14721	-0.24295
6675	P0C206	Q16549	-0.97043
6676	P0C206	Q96NB2	-0.74774
6677	P0C206	Q6PCB8	-0.98895
6678	P0C206	A6NKB5	-0.79503
6679	P0C206	P21754	-0.31211
6680	P0C206	O43586	-0.89452
6681	P0C206	Q16706	-0.36093
6682	P0C206	Q08AI6	-0.87335
6683	P0C206	Q4G0N0	-0.42111
6684	P0C206	A0PJW6	-0.62349
6685	P0C206	A2CJ06	-0.39307
6686	P0C206	P49281	-0.22198
6687	P0C206	P22888	-0.52556
6688	P0C206	Q9UBN1	-0.9864

6689	P0C206	P51817	-0.491
6690	P0C206	O14626	-1.1939
6691	P0C206	O43557	-0.64492
6692	P0C206	P60981	-0.31106
6693	P0C206	Q9BZD7	-1.3635
6694	P0C206	Q8IYW2	-1.0039
6695	P0C206	Q92544	-0.79503
6696	P0C206	O60603	-0.22757
6697	P0C206	Q07325	-1.0633
6698	P0C206	Q9HB40	-0.91101
6699	P0C206	Q8NGE9	-1.1763
6700	P0C206	Q99527	-1.0932
6701	P0C206	O00400	-0.72855
6702	P0C206	Q8TDY8	-0.91833
6703	P0C206	E7ERA6	-0.73705
6704	P0C206	Q96GX5	-0.22741
6705	P0C206	Q9NP80	-0.50598
6706	P0C206	Q9UBK7	-1.0597
6707	P0C206	Q96CN5	-0.22692
6708	P0C206	Q8TC12	-1.3345
6709	P0C206	P40200	-1.2753
6710	P0C206	Q96GM1	-0.87344
6711	P0C206	Q8IXT5	-0.20732
6712	P0C206	P21452	-1.3286
6713	P0C206	B2RXF0	-0.43753
6714	P0C206	Q9NZH8	-0.74947
6715	P0C206	O14782	-0.30877
6716	P0C206	Q6X784	-0.7942
6717	P0C206	Q7Z4R8	-0.76849
6718	P0C206	Q9BTZ2	-0.70116
6719	P0C206	Q96NR2	-0.13184
6720	P0C206	Q8NBF6	-0.76827
6721	P0C206	Q8NGB9	-1.1763
6722	P0C206	P0C874	-0.79503
6723	P0C206	P30493	-0.99995
6724	P0C206	P16403	-0.53263
6725	P0C206	P48740	-0.89559
6726	P0C206	Q9UNU6	-0.95654
6727	P0C206	O75841	-0.62077
6728	P0C206	Q9C0D6	-0.24224
6729	P0C206	O15327	-0.10769
6730	P0C206	P59542	-1.1287
6731	P0C206	Q8NI28	-0.79503
6732	P0C206	A6NHN0	-0.87668
6733	P0C206	Q92637	-1.101
6734	P0C206	Q8NGG8	-1.1763
6735	P0C206	A8MYG8	-0.22741
6736	P0C206	P35410	-0.47101
6737	P0C206	Q9Y236	-0.30109
6738	P0C206	P08174	-1.025
6739	P0C206	A8MYZ6	-0.39973
6740	P0C206	P14416	-0.26881
6741	P0C206	Q13686	-0.27469
6742	P0C206	P13232	-0.16826
6743	P0C206	Q92904	-0.23459
6744	P0C206	Q6N022	-0.27604
6745	P0C206	B6SEH8	-0.79503
6746	P0C206	P50607	-0.24219
6747	P0C206	O00767	-1.0704
6748	P0C206	Q8N8X6	-0.056113
6749	P0C206	Q96CE8	-0.79503
6750	P0C206	P31751	-0.10397
6751	P0C206	Q8NGN8	-1.1763
6752	P0C206	P09237	-1.0571
6753	P0C206	P43699	-0.33518
6754	P0C206	Q5TDP6	-0.3155
6755	P0C206	P40199	-0.2275
6756	P0C206	Q6ZSK4	-0.44864
6757	P0C206	Q67FW5	-0.28684
6758	P0C206	Q16363	-1.1087
6759	P0C206	Q15678	-0.36117
6760	P0C206	Q9BZ98	-0.25458
6761	P0C206	P11498	-0.54928
6762	P0C206	P35346	-0.98802
6763	P0C206	O75888	-0.58888
6764	P0C206	P42702	-1.0046

6765	P0C206	P30457	-0.98682
6766	P0C206	Q13291	-0.20429
6767	P0C206	P35557	-0.16663
6768	P0C206	Q96FC7	-0.2026
6769	P0C206	Q8TEY5	-0.22742
6770	P0C206	P33241	-0.74827
6771	P0C206	P08648	-0.32008
6772	P0C206	Q7RTN6	-0.47037
6773	P0C206	P10966	-0.80522
6774	P0C206	Q969V1	-1.2448
6775	P0C206	Q15245	-0.31584
6776	P0C206	Q5VT99	-0.97624
6777	P0C206	P08590	-0.22563
6778	P0C206	Q8NG41	-0.21613
6779	P0C206	Q8NCI6	-0.22837
6780	P0C206	C9JH25	-0.79503
6781	P0C206	Q6ZNL6	-0.90076
6782	P0C206	P82980	-0.2133
6783	P0C206	Q15427	-0.67014
6784	P0C206	Q68EM7	-0.3786
6785	P0C206	A6NK97	-0.82366
6786	P0C206	Q9H3T3	-1.0553
6787	P0C206	Q96I36	-0.62621
6788	P0C206	Q8TDX9	-0.63979
6789	P0C206	Q9NXI6	-0.73705
6790	P0C206	A6NJ69	-0.80952
6791	P0C206	Q96JT2	-0.73598
6792	P0C206	P98173	-0.62908
6793	P0C206	Q8NGA8	-1.1763
6794	P0C206	Q16821	-0.62493
6795	P0C206	P01744	-0.9894
6796	P0C206	Q96EY8	-0.60524
6797	P0C206	P61769	-0.50167
6798	P0C206	Q9Y2Q0	-0.50993
6799	P0C206	Q9NQ30	-0.69225
6800	P0C206	Q92484	-0.28993
6801	P0C206	P01717	-0.9894
6802	P0C206	P49913	-0.65792
6803	P0C206	Q96P20	-0.22708
6804	P0C206	Q92828	-0.31462
6805	P0C206	Q9UPC5	-0.67487
6806	P0C206	P10314	-0.93203
6807	P0C206	Q14162	-0.94031
6808	P0C206	Q9ULB5	-1.0941
6809	P0C206	Q8NGV7	-1.1763
6810	P0C206	Q6P1K1	-0.67208
6811	P0C206	Q6NVY1	-0.11625
6812	P0C206	Q8N119	-1.2403
6813	P0C206	Q86SG7	-0.77025
6814	P0C206	Q8NGL9	-1.1763
6815	P0C206	Q6IPM2	-0.1762
6816	P0C206	Q9UN86	-0.79309
6817	P0C206	Q14514	-1.4386
6818	P0C206	P55786	-0.31331
6819	P0C206	P60059	-0.51772
6820	P0C206	Q92185	-0.43874
6821	P0C206	Q12829	-1.1817
6822	P0C206	Q8N5G0	-0.79503
6823	P0C206	Q9UJA9	-1.557
6824	P0C206	P46736	-0.2888
6825	P0C206	P61599	-0.17723
6826	P0C206	P33763	-0.26637
6827	P0C206	P25445	-0.22723
6828	P0C206	Q6NTE8	-0.12183
6829	P0C206	P59817	-0.22723
6830	P0C206	Q6ZV73	-0.56954
6831	P0C206	P51512	-1.6008
6832	P0C206	Q8NBN3	-0.79503
6833	P0C206	P0C2L3	-0.79503
6834	P0C206	Q9H6H4	-0.79503
6835	P0C206	Q6E0U4	-0.88207
6836	P0C206	P26583	-0.23267
6837	P0C206	Q9Y6A1	-0.88561
6838	P0C206	Q95157	-0.848
6839	P0C206	Q9Y484	-0.22702
6840	P0C206	P01707	-0.9894

6841	P0C206	A0FGR8	-0.91833
6842	P0C206	Q6P1M0	-1.0851
6843	P0C206	P09871	-1.2852
6844	P0C206	Q96M89	-0.083496
6845	P0C206	Q8NCQ5	-0.24105
6846	P0C206	Q8NAT1	-0.85496
6847	P0C206	P20339	-0.53138
6848	P0C206	Q6UY09	-0.79503
6849	P0C206	A6NHM9	-0.60922
6850	P0C206	Q3ZCM7	-0.50115
6851	P0C206	P15153	-0.65948
6852	P0C206	Q1W4C9	-0.75923
6853	P0C206	Q63HQ2	-0.81466
6854	P0C206	Q13164	-0.22741
6855	P0C206	Q99961	-0.23113
6856	P0C206	Q69YW0	-0.015999
6857	P0C206	A6NNB3	-1.0863
6858	P0C206	Q6ZRF8	-0.44814
6859	P0C206	P31930	-0.42925
6860	P0C206	D6RA61	-0.59814
6861	P0C206	Q76002	-1.1763
6862	P0C206	P36969	-0.45518
6863	P0C206	P15941	-0.28274
6864	P0C206	Q94985	-0.99853
6865	P0C206	Q5JPB2	-0.46721
6866	P0C206	Q9UBK8	-0.40806
6867	P0C206	P61296	-0.23067
6868	P0C206	Q9H8M9	-1.0592
6869	P0C206	Q9NPA2	-1.3277
6870	P0C206	Q9BT23	-0.22729
6871	P0C206	Q8TBE9	-0.1218
6872	P0C206	P31629	-0.22748
6873	P0C206	Q9Y226	-0.87232
6874	P0C206	P63133	-0.20444
6875	P0C206	A8MZH6	-0.80952
6876	P0C206	Q9BY12	-0.15408
6877	P0C206	Q15375	-0.76611
6878	P0C206	P29353	-0.22741
6879	P0C206	O60383	-0.5611
6880	P0C206	Q86VE3	-0.25827
6881	P0C206	Q7Z4B0	-0.80952
6882	P0C206	Q14168	-0.5597
6883	P0C206	P55201	-0.22424
6884	P0C206	O75356	-0.32279
6885	P0C206	Q8TE58	-1.173
6886	P0C206	Q9Y5S8	-0.41977
6887	P0C206	Q8NGK0	-1.1763
6888	P0C206	Q9BR39	-0.37064
6889	P0C206	P15090	-0.18585
6890	P0C206	O60309	-0.79503
6891	P0C206	Q92956	-0.40485
6892	P0C206	Q5VZ89	-0.64049
6893	P0C206	Q9BXA5	-1.1575
6894	P0C206	Q8TED1	-1.1199
6895	P0C206	Q16654	-0.45483
6896	P0C206	Q9C030	-0.23099
6897	P0C206	Q9UP38	-0.36333
6898	P0C206	Q14772	-0.80387
6899	P0C206	O60412	-1.1763
6900	P0C206	Q8TC36	-0.22687
6901	P0C206	O94907	-0.36203
6902	P0C206	Q9NYW4	-1.0481
6903	P0C206	Q9HDC5	-0.80496
6904	P0C206	Q5T700	-0.79503
6905	P0C206	Q5SSG8	-0.93669
6906	P0C206	Q6UWM7	-0.77764
6907	P0C206	A6NFR6	-0.79503
6908	P0C206	Q8NAP8	-0.22368
6909	P0C206	Q08357	-0.90382
6910	P0C206	P08183	-0.41082
6911	P0C206	P04275	-0.22738
6912	P0C206	P19075	-1.0792
6913	P0C206	P00709	-0.90436
6914	P0C206	O60928	-0.88161
6915	P0C206	P07911	-0.69164
6916	P0C206	A8MPX8	-0.42295



6917	P0C206	Q8N9B4	-0.22741
6918	P0C206	Q6ZP80	-0.79503
6919	P0C206	P05181	-0.45505
6920	P0C206	Q00537	-0.89086
6921	P0C206	O43511	-0.79296
6922	P0C206	Q9P0M6	-0.7782
6923	P0C206	Q86Z23	-0.87668
6924	P0C206	Q9Y271	-1.2726
6925	P0C206	P35462	-0.34716
6926	P0C206	P06493	-0.21177
6927	P0C206	Q5VYP0	-0.79503
6928	P0C206	P40933	-0.15588
6929	P0C206	Q9UBN7	-0.21417
6930	P0C206	Q8N2S1	-0.46146
6931	P0C206	Q6PF15	-0.22104
6932	P0C206	Q8NI99	-1.3284
6933	P0C206	Q00325	-0.69517
6934	P0C206	Q6ZU64	-0.66124
6935	P0C206	Q8TCP9	-0.7995
6936	P0C206	Q6IQ16	-0.22245
6937	P0C206	P78325	-0.3816
6938	P0C206	Q9NV12	-0.79503
6939	P0C206	Q75712	-0.85477
6940	P0C206	Q99706	-0.64225
6941	P0C206	Q99519	-0.4057
6942	P0C206	O42043	-0.6451
6943	P0C206	Q5FYB1	-0.69836
6944	P0C206	P62807	-0.64767
6945	P0C206	Q96E93	-0.98547
6946	P0C206	P02818	-0.47935
6947	P0C206	P51784	-0.39183
6948	P0C206	O94772	-0.29803
6949	P0C206	P54578	-0.40252
6950	P0C206	O60218	-0.47875
6951	P0C206	Q8NFB2	-0.79503
6952	P0C206	Q9NQX4	-0.47323
6953	P0C206	Q8WXA2	-0.80952
6954	P0C206	Q5NDL2	-0.25084
6955	P0C206	O43286	-0.45997
6956	P0C206	P52179	-0.6364
6957	P0C206	Q969P0	-0.25559
6958	P0C206	P0C2W1	-0.20496
6959	P0C206	Q9NZM3	-0.59946
6960	P0C206	O43683	-0.22741
6961	P0C206	Q6ZSU1	-0.43833
6962	P0C206	Q8N7P7	-0.4241
6963	P0C206	Q6PI73	-0.79503
6964	P0C206	Q8WV16	-0.23317
6965	P0C206	P63098	-0.2276
6966	P0C206	P22352	-0.75825
6967	P0C206	Q96MR6	-0.22763
6968	P0C206	Q13946	-0.22065
6969	P0C206	Q8NGE2	-1.1763
6970	P0C206	Q8N118	-0.76244
6971	P0C206	Q5T1H1	-0.98699
6972	P0C206	Q8NGX1	-1.1763
6973	P0C206	Q13636	-0.93775
6974	P0C206	Q7Z388	-0.79503
6975	P0C206	Q6ZR08	-0.47345
6976	P0C206	Q9BX73	-0.79503
6977	P0C206	Q8NG95	-1.1763
6978	P0C206	Q504Y0	-0.8019
6979	P0C206	P43234	-0.77978
6980	P0C206	Q96RI1	-0.22991
6981	P0C206	Q8N6K0	-0.79503
6982	P0C206	Q96S90	-0.20388
6983	P0C206	Q5K4E3	-1.1085
6984	P0C206	P00167	-0.3513
6985	P0C206	P55808	-0.93848
6986	P0C206	O75342	-0.72537
6987	P0C206	Q50LG9	-0.79503
6988	P0C206	Q96JA3	-0.2268
6989	P0C206	Q6ZSJ9	-0.79503
6990	P0C206	Q13190	-0.19808
6991	P0C206	O15342	-0.55665
6992	P0C206	Q9H205	-1.1763

6993	P0C206	Q8N7R7	-0.22804
6994	P0C206	Q9H2U9	-0.94746
6995	P0C206	Q8WTR4	-0.57146
6996	P0C206	Q5KSL6	-0.82873
6997	P0C206	Q6UWT4	-0.80952
6998	P0C206	Q06828	-0.97876
6999	P0C206	Q2TBE0	-0.42295
7000	P0C206	P15514	-0.6137
7001	P0C206	Q8TEQ0	-0.3763
7002	P0C206	Q9BXN1	-0.95926
7003	P0C206	Q16878	-0.28595
7004	P0C206	Q96SB4	-0.22741
7005	P0C206	Q9ULX5	-0.30661
7006	P0C206	P17540	-0.85323
7007	P0C206	Q9H6Y5	-0.22614
7008	P0C206	P08134	-0.22585
7009	P0C206	Q8NBM8	-1.0224
7010	P0C206	P05015	-0.74337
7011	P0C206	Q9UI42	-0.93681
7012	P0C206	P0C875	-0.028848
7013	P0C206	Q8N966	-0.77292
7014	P0C206	Q9UJ14	-0.67656
7015	P0C206	Q7Z418	-1.0157
7016	P0C206	P10071	-0.22722
7017	P0C206	O15056	-0.22657
7018	P0C206	Q5VTH9	-0.22745
7019	P0C206	P57057	-0.65916
7020	P0C206	Q99878	-0.66158
7021	P0C206	O15498	-0.18002
7022	P0C206	A0AVI2	-0.79503
7023	P0C206	Q9Y4K3	-0.22725
7024	P0C206	Q8NG92	-1.1763
7025	P0C206	P25774	-1.2165
7026	P0C206	Q96M42	-0.15272
7027	P0C206	Q9Y210	-0.31027
7028	P0C206	Q9UG01	-0.55984
7029	P0C206	P51149	-0.32782
7030	P0C206	Q9ULT8	-0.53975
7031	P0C206	P29122	-0.9575
7032	P0C206	Q6ZMV9	-0.30148
7033	P0C206	Q14957	-0.60914
7034	P0C206	A6NCW0	-0.31013
7035	P0C206	P12872	-0.87574
7036	P0C206	Q7Z7H5	-0.7766
7037	P0C206	Q99967	-0.14285
7038	P0C206	P10767	-0.94928
7039	P0C206	Q96RD7	-0.79979
7040	P0C206	Q9UK00	-0.79503
7041	P0C206	Q8IZD6	-0.82366
7042	P0C206	Q6QHF9	-0.44348
7043	P0C206	P58215	-0.40469
7044	P0C206	Q16538	-1.2448
7045	P0C206	Q8N8M0	-0.25827
7046	P0C206	Q8NGY3	-1.1763
7047	P0C206	Q08708	-1.0571
7048	P0C206	P41235	-0.24306
7049	P0C206	Q9NV96	-0.13988
7050	P0C206	P01567	-0.6432
7051	P0C206	Q96M86	-0.15873
7052	P0C206	O95319	-0.36107
7053	P0C206	Q9NY64	-0.55949
7054	P0C206	Q96S37	-0.65119
7055	P0C206	Q9BPY8	-0.21506
7056	P0C206	Q9Y5P6	-0.65576
7057	P0C206	P23743	-0.91263
7058	P0C206	Q9BZ72	-1.2399
7059	P0C206	P05026	-0.40062
7060	P0C206	P07357	-1.4044
7061	P0C206	Q70Z44	-0.95161
7062	P0C206	Q15915	-0.22682
7063	P0C206	Q9H488	-0.025222
7064	P0C206	Q9Y2G3	-0.66564
7065	P0C206	P43652	-0.77185
7066	P0C206	D6R9N7	-0.59814
7067	P0C206	Q17RD7	-0.39452
7068	P0C206	Q6XR72	-0.91909

7069	P0C206	Q9NS87	-0.245
7070	P0C206	P43632	-1.0749
7071	P0C206	Q6ZN80	-0.24811
7072	P0C206	Q8IWT1	-0.74157
7073	P0C206	Q96RU2	-0.55866
7074	P0C206	Q9NWC5	-0.79503
7075	P0C206	Q16653	-1.1043
7076	P0C206	Q96AA3	-0.73142
7077	P0C206	Q92771	-0.42331
7078	P0C206	Q14242	-0.64986
7079	P0C206	Q14CN2	-1.3448
7080	P0C206	Q02086	-0.22375
7081	P0C206	P04001	-1.3368
7082	P0C206	P52790	-0.32891
7083	P0C206	Q5TIA1	-0.26807
7084	P0C206	Q68D06	-0.97254
7085	P0C206	A8MTB9	-0.79503
7086	P0C206	Q9BZG9	-1.2241
7087	P0C206	Q8TB36	-0.37593
7088	P0C206	Q9BXU7	-0.26843
7089	P0C206	Q6ZN16	-1.0299
7090	P0C206	Q6IE38	-0.75923
7091	P0C206	Q5RI15	-0.63887
7092	P0C206	Q8IXU6	-0.51239
7093	P0C206	Q96JA1	-0.79503
7094	P0C206	Q8N292	-0.89731
7095	P0C206	Q5JUK2	-0.19872
7096	P0C206	Q8NGF4	-1.1763
7097	P0C206	Q8NGN4	-1.1763
7098	P0C206	Q9UKB1	-0.5399
7099	P0C206	Q68CZ1	-0.2081
7100	P0C206	Q7Z7B0	-0.21701
7101	P0C206	Q7Z601	-0.93015
7102	P0C206	O75923	-0.77563
7103	P0C206	Q14005	-0.25378
7104	P0C206	P14867	-0.75977
7105	P0C206	P20929	-0.2258
7106	P0C206	Q96Q27	-0.63063
7107	P0C206	Q9Y5H9	-1.2044
7108	P0C206	Q8N2M4	-0.79503
7109	P0C206	A4D1F6	-0.37966
7110	P0C206	Q96JH8	-0.78573
7111	P0C206	P47884	-1.266
7112	P0C206	Q96J86	-0.674
7113	P0C206	P0CG37	-0.90238
7114	P0C206	Q7Z7N9	-0.79503
7115	P0C206	Q9UHP6	-0.19883
7116	P0C206	Q96GR4	-0.77292
7117	P0C206	Q8WUH6	-0.79503
7118	P0C206	P35318	-0.25571
7119	P0C206	Q6A1A2	-0.99855
7120	P0C206	Q01780	-0.19361
7121	P0C206	Q6PJI9	-0.2274
7122	P0C206	Q06055	-0.6755
7123	P0C206	P01303	-0.65171
7124	P0C206	Q53FA7	-0.73794
7125	P0C206	Q52LW3	-0.83163
7126	P0C206	O95568	-0.092302
7127	P0C206	O60476	-0.43757
7128	P0C206	P0CB38	-0.83583
7129	P0C206	Q8NH81	-1.1763
7130	P0C206	Q9Y5R4	-0.12464
7131	P0C206	Q9P2D8	-0.79503
7132	P0C206	Q96SE0	-0.58064
7133	P0C206	P51654	-0.62901
7134	P0C206	Q14116	-0.30778
7135	P0C206	A6NJZ7	-0.22738
7136	P0C206	P05090	-0.59836
7137	P0C206	O60879	-0.22151
7138	P0C206	Q3T906	-0.30938
7139	P0C206	Q7L5A8	-0.78625
7140	P0C206	P0CG41	-0.79503
7141	P0C206	Q9H8X2	-0.59039
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7143	P0C206	Q8TDI8	-0.82067
7144	P0C206	P01624	-0.9894

7145	P0C206	Q9BUN1	-0.80952
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7147	P0C206	Q9Y4B4	-0.33551
7148	P0C206	Q43272	-0.20186
7149	P0C206	Q9H1B5	-0.61027
7150	P0C206	Q8NE28	-0.93438
7151	P0C206	Q96SK2	-0.79503
7152	P0C206	O00238	-0.73729
7153	P0C206	Q9HCG7	-0.76314
7154	P0C206	Q8IY26	-0.89394
7155	P0C206	P42331	-1.083
7156	P0C206	Q6UXZ4	-0.96987
7157	P0C206	P62942	-0.22836
7158	P0C206	Q8IXL9	-0.20925
7159	P0C206	P47972	-0.7214
7160	P0C206	Q8N9B8	-0.66273
7161	P0C206	Q8IW93	-0.74769
7162	P0C206	Q96E22	-0.83597
7163	P0C206	Q96A54	-1.029
7164	P0C206	P07237	-0.3324
7165	P0C206	P07384	-0.23607
7166	P0C206	Q8NC60	-0.093107
7167	P0C206	Q8NFY4	-0.61813
7168	P0C206	P51993	-0.61967
7169	P0C206	Q9UHF5	-0.87112
7170	P0C206	Q8NA23	-0.2275
7171	P0C206	P01733	-0.33576
7172	P0C206	Q9BVI0	-0.22744
7173	P0C206	P0CG21	-0.22365
7174	P0C206	P52569	-0.63927
7175	P0C206	A8MTL0	-0.21546
7176	P0C206	O75947	-0.14123
7177	P0C206	Q6AZY7	-0.72201
7178	P0C206	Q8NCV1	-0.63428
7179	P0C206	P01625	-0.9894
7180	P0C206	Q2UY09	-1.0785
7181	P0C206	A1KXE4	-0.80034
7182	P0C206	Q494U1	-0.32146
7183	P0C206	Q8WZ73	-0.22739
7184	P0C206	P0C8F1	-0.83263
7185	P0C206	Q9NZK5	-0.59966
7186	P0C206	P50238	-0.22835
7187	P0C206	Q8N7X1	-0.83583
7188	P0C206	P01112	-0.22815
7189	P0C206	Q14353	-0.12638
7190	P0C206	P33681	-0.25684
7191	P0C206	P01912	-0.61241
7192	P0C206	Q494R4	-0.065449
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7194	P0C206	P48664	-0.96912
7195	P0C206	P21266	-0.22197
7196	P0C206	Q8IWG1	-0.11976
7197	P0C206	Q96DX4	-0.76161
7198	P0C206	P47883	-1.1763
7199	P0C206	Q86VD7	-0.49827
7200	P0C206	P01127	-0.32538
7201	P0C206	Q06418	-0.70207
7202	P0C206	Q9Y4C1	-0.088045
7203	P0C206	Q9Y5G3	-1.1512
7204	P0C206	P43489	-0.8172
7205	P0C206	Q96S52	-0.29418
7206	P0C206	Q8ND94	-0.79503
7207	P0C206	P20309	-0.67542
7208	P0C206	Q14728	-0.68834
7209	P0C206	Q9ULP9	-0.5223
7210	P0C206	Q7Z572	-0.29182
7211	P0C206	Q99616	-1.0549
7212	P0C206	Q29836	-0.99995
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7216	P0C206	O75593	-0.37706
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7218	P0C206	Q8NGS7	-1.1763
7219	P0C206	Q8N511	-0.79503
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7222	P0C206	P04433	-0.9894
7223	P0C206	Q92737	-0.7899
7224	P0C206	H3BPM6	-0.4642
7225	P0C206	Q8N8Q8	-0.37014
7226	P0C206	A6NE02	-0.58156
7227	P0C206	Q6ZWE6	-0.54994
7228	P0C206	Q8WY21	-0.2125
7229	P0C206	Q9Y2C5	-0.92409
7230	P0C206	Q9H2B4	-0.78517
7231	P0C206	P08514	-0.42316
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7233	P0C206	P63131	-0.56257
7234	P0C206	O95881	-0.48004
7235	P0C206	A2VDJ0	-0.79503
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7237	P0C206	O43613	-1.2965
7238	P0C206	Q8N568	-0.89483
7239	P0C206	Q86W25	-0.72239
7240	P0C206	Q5TEV5	-0.80952
7241	P0C206	O00519	-0.65026
7242	P0C206	Q9C0I4	-0.79503
7243	P0C206	Q9UI40	-0.91847
7244	P0C206	P30679	-0.85337
7245	P0C206	P0DJD1	-0.35325
7246	P0C206	P15170	-0.33624
7247	P0C206	Q7RTX7	-0.90219
7248	P0C206	Q8IW00	-0.91833
7249	P0C206	Q8WUJ1	-0.72742
7250	P0C206	Q96KP6	-0.26527
7251	P0C206	Q9Y6C5	-0.74993
7252	P0C206	Q3KQV9	-0.31773
7253	P0C206	Q5HYJ1	-0.8494
7254	P0C206	Q969X2	-0.47039
7255	P0C206	Q9NP60	-1.0975
7256	P0C206	P08949	-0.72884
7257	P0C206	Q8N138	-0.27081
7258	P0C206	Q8N456	-0.27964
7259	P0C206	Q96AG3	-0.37565
7260	P0C206	Q86YW0	-0.22741
7261	P0C206	P11177	-0.17935
7262	P0C206	P12319	-0.98581
7263	P0C206	Q53FV1	-0.86991
7264	P0C206	Q08431	-0.76285
7265	P0C206	Q9P2G3	-0.22648
7266	P0C206	Q7Z402	-0.79503
7267	P0C206	O15120	-0.69708
7268	P0C206	Q5SYB0	-0.2274
7269	P0C206	Q6ZNA5	-0.98652
7270	P0C206	A0PJZ3	-0.77666
7271	P0C206	Q96NL1	-0.89136
7272	P0C206	O60262	-0.47511
7273	P0C206	Q9Y6M4	-0.97952
7274	P0C206	P54792	-0.59888
7275	P0C206	P04179	-0.17759
7276	P0C206	C9J202	-0.28684
7277	P0C206	Q0WX57	-0.35782
7278	P0C206	P62834	-0.33766
7279	P0C206	A8MUP6	-0.79503
7280	P0C206	Q9NX57	-0.68422
7281	P0C206	Q96BH3	-0.81675
7282	P0C206	P47775	-1.3477
7283	P0C206	Q9NUB4	-0.79503
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7285	P0C206	O00499	-0.22764
7286	P0C206	Q6ZS81	-0.79503
7287	P0C206	P07305	-0.282
7288	P0C206	P16499	-0.44946
7289	P0C206	O76024	-0.5287
7290	P0C206	Q13873	-0.4947
7291	P0C206	O95050	-0.12761
7292	P0C206	Q53H96	-0.91545
7293	P0C206	Q9Y2A7	-0.33384
7294	P0C206	Q9NS62	-1.1025
7295	P0C206	P58499	-0.774
7296	P0C206	O43181	-0.13074

7297	P0C206	Q9NVP2	-0.12779
7298	P0C206	O76061	-0.68309
7299	P0C206	Q17RR3	-0.86466
7300	P0C206	P08582	-0.45818
7301	P0C206	Q8WTU2	-0.88984
7302	P0C206	Q8N7A1	-0.22716
7303	P0C206	Q8IZ52	-0.39255
7304	P0C206	P13473	-0.69468
7305	P0C206	Q86Y33	-0.22741
7306	P0C206	P54756	-1.0382
7307	P0C206	Q9BY15	-1.7601
7308	P0C206	P34910	-0.7102
7309	P0C206	C9JLJ4	-0.59814
7310	P0C206	Q8IZV5	-0.65312
7311	P0C206	P00325	-0.5201
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7313	P0C206	Q69YG0	-0.79503
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7315	P0C206	Q6P499	-0.76064
7316	P0C206	O95819	-0.39772
7317	P0C206	Q8TC27	-0.8678
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7319	P0C206	P19876	-0.98327
7320	P0C206	Q96LA6	-0.91833
7321	P0C206	P49184	-0.23482
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7323	P0C206	Q6UDR6	-0.75923
7324	P0C206	Q96H55	-0.25302
7325	P0C206	Q12908	-0.6582
7326	P0C206	O43548	-0.1542
7327	P0C206	P32298	-0.94177
7328	P0C206	Q8NHA6	-1.1763
7329	P0C206	Q9Y5E7	-1.1831
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7331	P0C206	P32942	-0.71459
7332	P0C206	Q15475	-0.22749
7333	P0C206	O94889	-0.19331
7334	P0C206	Q99969	-0.35956
7335	P0C206	Q6ZVH6	-0.31132
7336	P0C206	P60153	-0.8151
7337	P0C206	P35453	-0.22735
7338	P0C206	Q15349	-0.65618
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7340	P0C206	O75333	-0.41846
7341	P0C206	P01019	-0.30325
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7343	P0C206	Q9H6L4	-0.23077
7344	P0C206	P08567	-0.22741
7345	P0C206	Q86VH4	-0.79503
7346	P0C206	Q7Z5H4	-1.1833
7347	P0C206	Q9NX09	-0.23506
7348	P0C206	Q9H5Y7	-0.89423
7349	P0C206	Q5VW38	-0.79503
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7351	P0C206	O15520	-0.38713
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7353	P0C206	P04844	-0.42278
7354	P0C206	Q7Z6L1	-0.55296
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7356	P0C206	Q15334	-0.56189
7357	P0C206	O00116	-0.65655
7358	P0C206	Q13319	-0.33968
7359	P0C206	Q16651	-1.1367
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7362	P0C206	Q15464	-0.58931
7363	P0C206	Q86TM3	-0.57712
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7365	P0C206	Q14439	-1.4087
7366	P0C206	Q11128	-0.50637
7367	P0C206	O60890	-0.73951
7368	P0C206	Q9Y5Z6	-0.72293
7369	P0C206	Q86SJ2	-0.22766
7370	P0C206	P55107	-0.67338
7371	P0C206	Q3C1V0	-0.79503
7372	P0C206	P0CG06	-0.95593

7373	P0C206	Q6XE24	-0.60122
7374	P0C206	Q96N68	-0.79503
7375	P0C206	P48050	-0.43211
7376	P0C206	Q92772	-0.47759
7377	P0C206	P60468	-0.28235
7378	P0C206	O95470	-0.32782
7379	P0C206	Q5VV63	-0.82563
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7381	P0C206	A6NN79	-0.79503
7382	P0C206	Q5W064	-0.27494
7383	P0C206	Q13237	-0.9743
7384	P0C206	Q8N9V6	-0.22741
7385	P0C206	P51795	-0.90549
7386	P0C206	P36575	-0.45948
7387	P0C206	P59044	-0.22474
7388	P0C206	Q8IZE3	-0.22733
7389	P0C206	Q969I6	-0.97363
7390	P0C206	Q8NGK2	-1.1763
7391	P0C206	Q6PI25	-0.40707
7392	P0C206	P14060	-0.84521
7393	P0C206	O00341	-0.8712
7394	P0C206	P14927	-0.21548
7395	P0C206	Q9P0S3	-0.86991
7396	P0C206	Q9H2D1	-0.41728
7397	P0C206	Q8NGP0	-1.1763
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7399	P0C206	O14905	-0.54091
7400	P0C206	Q9ULQ1	-0.42748
7401	P0C206	Q9NYG8	-1.0115
7402	P0C206	Q2Y0W8	-0.86989
7403	P0C206	Q4U2R8	-0.35729
7404	P0C206	Q9H9S4	-0.27605
7405	P0C206	P40225	-0.79947
7406	P0C206	P04438	-0.9894
7407	P0C206	Q96LR4	-0.80952
7408	P0C206	P02647	-0.30569
7409	P0C206	Q96S97	-0.79503
7410	P0C206	Q8NEQ5	-0.79503
7411	P0C206	Q3SY17	-0.57194
7412	P0C206	Q9UII6	-0.75574
7413	P0C206	O00311	-0.22741
7414	P0C206	Q8IZC6	-0.92379
7415	P0C206	Q9Y4F3	-0.79606
7416	P0C206	P20336	-0.3262
7417	P0C206	Q6QHC5	-0.8818
7418	P0C206	Q5HYI8	-1.0927
7419	P0C206	Q15415	-0.62654
7420	P0C206	Q96J66	-1.2066
7421	P0C206	Q92851	-0.22628
7422	P0C206	Q8TC92	-1.5774
7423	P0C206	P01601	-0.9894
7424	P0C206	P47901	-0.98354
7425	P0C206	P43220	-0.64369
7426	P0C206	Q9UBU3	-0.29583
7427	P0C206	Q30KQ7	-0.77981
7428	P0C206	Q96DR5	-0.97846
7429	P0C206	Q9BXP2	-0.82385
7430	P0C206	Q9P0J1	-0.03274
7431	P0C206	Q8IVW1	-0.79602
7432	P0C206	Q5JX71	-0.79503
7433	P0C206	Q5TGY3	-0.26698
7434	P0C206	Q9Y458	-0.51326
7435	P0C206	P50443	-1.0005
7436	P0C206	P48506	-0.31556
7437	P0C206	Q9NTQ9	-0.87387
7438	P0C206	Q9BST9	-0.57264
7439	P0C206	Q96J88	-0.29251
7440	P0C206	Q9UM19	-0.52207
7441	P0C206	Q8TB45	-0.22741
7442	P0C206	P63136	-0.20444
7443	P0C206	Q96PZ2	-0.42295
7444	P0C206	Q5JXM2	-0.75346
7445	P0C206	Q96PL2	-1.043
7446	P0C206	Q92523	-0.61997
7447	P0C206	P20702	-0.4241
7448	P0C206	Q9Y5W7	-0.64254

7449	P0C206	O14727	-0.22858
7450	P0C206	O60245	-1.2852
7451	P0C206	Q8WTR2	-0.46642
7452	P0C206	Q8N4N8	-0.37019
7453	P0C206	P42858	-0.11095
7454	P0C206	Q14571	-0.51393
7455	P0C206	O00468	-0.49935
7456	P0C206	Q9H7T0	-0.99956
7457	P0C206	O94900	-0.21424
7458	P0C206	Q9Y4P3	-0.22745
7459	P0C206	Q9H7X2	-0.79503
7460	P0C206	Q9H5I5	-0.87508
7461	P0C206	P00750	-0.39671
7462	P0C206	Q16774	-0.5819
7463	P0C206	P16662	-0.83953
7464	P0C206	O75628	-1.1229
7465	P0C206	P59796	-1.1483
7466	P0C206	Q5FWE3	-0.79503
7467	P0C206	Q6NXP6	-0.75486
7468	P0C206	P51674	-0.86386
7469	P0C206	Q5GLZ8	-0.5397
7470	P0C206	Q5TBA9	-0.28469
7471	P0C206	Q9BY21	-1.1575
7472	P0C206	P01603	-0.9894
7473	P0C206	C9JG80	-0.12325
7474	P0C206	Q9NP94	-0.9143
7475	P0C206	Q9NYV8	-1.0481
7476	P0C206	Q6PID8	-0.22702
7477	P0C206	A4D1T9	-1.1117
7478	P0C206	Q9UBF9	-0.2275
7479	P0C206	Q14831	-0.68517
7480	P0C206	O14836	-0.42811
7481	P0C206	P01889	-1.0058
7482	P0C206	Q8N239	-0.20877
7483	P0C206	Q8IVW8	-0.85387
7484	P0C206	Q9HBA9	-0.5463
7485	P0C206	Q9P1Z3	-1.2213
7486	P0C206	Q8N565	-0.44404
7487	P0C206	P78540	-0.20374
7488	P0C206	O95076	-0.22741
7489	P0C206	Q9Y5F8	-1.1512
7490	P0C206	P17936	-0.22712
7491	P0C206	Q08830	-1.08
7492	P0C206	O95832	-0.77612
7493	P0C206	P01712	-0.9894
7494	P0C206	Q8N136	-0.40388
7495	P0C206	Q13183	-1.0496
7496	P0C206	O00230	-0.8227
7497	P0C206	P13521	-0.58426
7498	P0C206	P50336	-0.6114
7499	P0C206	Q8NAS9	-0.083639
7500	P0C206	Q15811	-0.39916
7501	P0C206	Q8IVB5	-0.14009
7502	P0C206	P13727	-0.84913
7503	P0C206	O95407	-0.2266
7504	P0C206	P29459	-0.14713
7505	P0C206	P60328	-0.34302
7506	P0C206	P28331	-0.14954
7507	P0C206	Q9UH03	-0.22073
7508	P0C206	Q13315	-0.42627
7509	P0C206	Q6UX06	-0.88551
7510	P0C206	Q5VVB8	-0.79503
7511	P0C206	P01229	-0.86584
7512	P0C206	P08218	-1.3203
7513	P0C206	Q13017	-0.73124
7514	P0C206	Q9Y487	-0.23902
7515	P0C206	Q96LJ7	-0.88484
7516	P0C206	O75354	-1.0275
7517	P0C206	Q8N8N7	-0.67012
7518	P0C206	Q8NGU2	-1.1763
7519	P0C206	Q9H069	-0.22738
7520	P0C206	Q92915	-0.38043
7521	P0C206	Q5T890	-0.19943
7522	P0C206	O95696	-0.22346
7523	P0C206	A6NDQ2	-0.44814
7524	P0C206	Q8IYS2	-0.79503



7525	P0C206	Q8WTR8	-0.80952
7526	P0C206	O60911	-0.44486
7527	P0C206	P27105	-0.16362
7528	P0C206	A1L4K1	-0.22744
7529	P0C206	P19113	-0.53015
7530	P0C206	Q14031	-1.0874
7531	P0C206	O60336	-0.22772
7532	P0C206	O14764	-0.91707
7533	P0C206	Q6NT55	-0.75088
7534	P0C206	P49619	-0.90568
7535	P0C206	Q6L9W6	-0.60863
7536	P0C206	Q9NW97	-0.79503
7537	P0C206	O15344	-0.22935
7538	P0C206	Q07092	-0.5739
7539	P0C206	Q8WU43	-0.029352
7540	P0C206	Q96JY6	-0.22733
7541	P0C206	P56470	-0.37258
7542	P0C206	Q9Y2D2	-0.4146
7543	P0C206	Q9H0R3	-0.79503
7544	P0C206	Q9BZL6	-0.26399
7545	P0C206	Q8N609	-0.6052
7546	P0C206	A8MQB9	-0.22741
7547	P0C206	P63135	-0.076791
7548	P0C206	Q8WWZ7	-0.87151
7549	P0C206	Q969X0	-0.023892
7550	P0C206	Q8N907	-0.60506
7551	P0C206	Q9H0B8	-0.90622
7552	P0C206	P03971	-0.50788
7553	P0C206	Q96JP9	-1.1706
7554	P0C206	P58294	-0.65274
7555	P0C206	O43194	-1.3782
7556	P0C206	Q8WWX0	-0.48675
7557	P0C206	P08263	-0.22467
7558	P0C206	Q8TF42	-0.22741
7559	P0C206	Q9NSY0	-0.63398
7560	P0C206	P51157	-1.2187
7561	P0C206	P01344	-0.2248
7562	P0C206	Q8NGD2	-1.1763
7563	P0C206	Q9BWP8	-1.0326
7564	P0C206	Q9NRD8	-0.82006
7565	P0C206	Q96P66	-1.2448
7566	P0C206	O60830	-0.30565
7567	P0C206	P00492	-0.17845
7568	P0C206	Q9HCJ5	-0.15207
7569	P0C206	P22914	-0.24928
7570	P0C206	Q86SQ6	-1.067
7571	P0C206	P59773	-0.79503
7572	P0C206	Q8N139	-1.1661
7573	P0C206	Q86VI4	-0.21896
7574	P0C206	A6NJI9	-0.16145
7575	P0C206	Q7Z494	-0.22715
7576	P0C206	Q9HBJ7	-0.49793
7577	P0C206	P30455	-0.93091
7578	P0C206	F2Z398	-0.45161
7579	P0C206	P05106	-0.35382
7580	P0C206	Q8WXG9	-0.58953
7581	P0C206	Q95475	-0.22776
7582	P0C206	Q14BN4	-0.77554
7583	P0C206	Q8WZ71	-0.79503
7584	P0C206	Q8N4S9	-0.76231
7585	P0C206	Q9BWW9	-0.77618
7586	P0C206	P0C6E5	-0.28733
7587	P0C206	Q96C45	-1.13
7588	P0C206	Q8N4T0	-1.1171
7589	P0C206	Q9Y5E6	-1.1831
7590	P0C206	Q14469	-0.22515
7591	P0C206	O00764	-0.1828
7592	P0C206	O14678	-1.2401
7593	P0C206	Q5GJ75	-0.020839
7594	P0C206	P01617	-0.9894
7595	P0C206	Q9ULB1	-0.32677
7596	P0C206	O14522	-0.72197
7597	P0C206	P61964	-0.64899
7598	P0C206	Q96P09	-0.2274
7599	P0C206	Q9C0B6	-0.51062
7600	P0C206	Q9BXJ3	-0.80952

7601	POC206	Q4VCS5	-0.12373
7602	POC206	Q9NW68	-0.084733
7603	POC206	P48066	-0.91412
7604	POC206	Q13886	-0.22122
7605	POC206	Q9NPE6	-0.41113
7606	POC206	A6NL05	-0.79503
7607	POC206	P11686	-0.077411
7608	POC206	P17858	-0.24425
7609	POC206	Q8NGE3	-1.1763
7610	POC206	O00180	-0.77514
7611	POC206	P16949	-0.47201
7612	POC206	P21709	-1.1072
7613	POC206	Q12797	-0.5143
7614	POC206	Q8NGF6	-1.1763
7615	POC206	Q13702	-0.22697
7616	POC206	E7EU14	-0.22038
7617	POC206	Q15392	-0.33142
7618	POC206	P0C869	-0.4771
7619	POC206	A4D126	-0.32006
7620	POC206	O60858	-0.48762
7621	POC206	P59901	-0.22742
7622	POC206	Q9NZ94	-0.28001
7623	POC206	Q43561	-0.32038
7624	POC206	Q8TE99	-0.75057
7625	POC206	Q9H2D6	-0.21101
7626	POC206	Q96DR4	-0.50624
7627	POC206	P98194	-0.80347
7628	POC206	A6BM72	-0.79995
7629	POC206	Q2T9K0	-0.79503
7630	POC206	Q16720	-0.97178
7631	POC206	Q6ZRUS	-0.80952
7632	POC206	Q16557	-0.80794
7633	POC206	P56705	-0.28578
7634	POC206	P29460	-0.25201
7635	POC206	P48551	-0.85542
7636	POC206	P27930	-0.83853
7637	POC206	C9JCN9	-0.18627
7638	POC206	Q86VH5	-0.79503
7639	POC206	P37268	-0.94028
7640	POC206	Q8IUL8	-0.79993
7641	POC206	Q07283	-0.36793
7642	POC206	Q92838	-0.92936
7643	POC206	Q07075	-0.90232
7644	POC206	Q7Z3V4	-0.3154
7645	POC206	Q8IUQ0	-0.42639
7646	POC206	Q8NNG5	-1.1763
7647	POC206	Q92786	-0.20526
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7649	POC206	Q96I15	-0.24116
7650	POC206	A6NFA0	-0.79503
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7652	POC206	P49810	-0.21766
7653	POC206	P30040	-0.061955
7654	POC206	Q86UW1	-0.83298
7655	POC206	P15328	-0.93786
7656	POC206	Q96I13	-0.38424
7657	POC206	Q6UWY5	-0.80952
7658	POC206	Q6TFL4	-0.24499
7659	POC206	Q2M2I8	-0.92903
7660	POC206	A8MWX3	-0.32585
7661	POC206	Q86UQ5	-0.79503
7662	POC206	P31997	-0.71443
7663	POC206	P23352	-0.6457
7664	POC206	Q24JQ0	-0.79503
7665	POC206	Q9NRM7	-0.22741
7666	POC206	Q04756	-1.1117
7667	POC206	P29590	-0.22664
7668	POC206	O14815	-0.95126
7669	POC206	Q9Y580	-0.80403
7670	POC206	Q8IYT2	-0.70885
7671	POC206	P22692	-0.93962
7672	POC206	O15417	-0.26698
7673	POC206	Q6V0I7	-0.55846
7674	POC206	Q9H239	-1.2672
7675	POC206	Q96HS1	-0.54356
7676	POC206	Q9BWV2	-1.1461

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7678	P0C206	A6NHR9	-0.48065
7679	P0C206	Q6P5S7	-0.59735
7680	P0C206	Q92805	-0.20519
7681	P0C206	Q6UX65	-0.66726
7682	P0C206	P09884	-0.28099
7683	P0C206	A6ND91	-0.88438
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7685	P0C206	P13584	-0.69815
7686	P0C206	P0C7P3	-0.72239
7687	P0C206	Q9NZ45	-0.6856
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7690	P0C206	O15197	-1.6715
7691	P0C206	P08887	-0.34737
7692	P0C206	Q9NPH6	-0.67592
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7695	P0C206	O43692	-0.72848
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7698	P0C206	Q96JK2	-0.22741
7699	P0C206	Q9BPX6	-0.39534
7700	P0C206	Q8N9M5	-0.56167
7701	P0C206	Q9Y5X5	-1.3273
7702	P0C206	Q9UGV2	-0.17725
7703	P0C206	Q6UWJ1	-0.86378
7704	P0C206	Q8NG06	-0.44814
7705	P0C206	Q9NUH8	-0.79503
7706	P0C206	Q9BV36	-0.16052
7707	P0C206	Q15465	-0.22739
7708	P0C206	Q96S44	-0.44865
7709	P0C206	Q09160	-0.96478
7710	P0C206	Q8N6M8	-0.22319
7711	P0C206	P78524	-0.23161
7712	P0C206	P01584	-0.23351
7713	P0C206	O15551	-0.81825
7714	P0C206	Q969K4	-0.22724
7715	P0C206	Q6UXG2	-0.79818
7716	P0C206	Q9Y5G0	-1.1512
7717	P0C206	Q3KR37	-0.79503
7718	P0C206	Q9UM22	-0.82054
7719	P0C206	P23527	-0.66158
7720	P0C206	Q8NHV5	-0.069591
7721	P0C206	P01903	-0.70502
7722	P0C206	P15309	-1.3271
7723	P0C206	Q5J5C9	-0.71756
7724	P0C206	Q9BXP8	-1.411
7725	P0C206	Q15761	-0.91209
7726	P0C206	Q6UWY2	-1.3203
7727	P0C206	Q12852	-0.47178
7728	P0C206	O43474	-0.22359
7729	P0C206	Q5T2N8	-0.87404
7730	P0C206	Q8NAA4	-0.22776
7731	P0C206	Q6DRA6	-0.66158
7732	P0C206	Q15506	-0.27166
7733	P0C206	P33261	-0.61231
7734	P0C206	Q3C1W6	-0.44814
7735	P0C206	Q7Z407	-0.91833
7736	P0C206	P56179	-0.22378
7737	P0C206	P55008	-0.22722
7738	P0C206	Q00872	-0.64382
7739	P0C206	Q9UPN3	-0.22868
7740	P0C206	P00813	-0.16617
7741	P0C206	Q9UKU7	-0.30029
7742	P0C206	Q2M1Z3	-1.205
7743	P0C206	Q96C92	-0.14817
7744	P0C206	Q8TBF4	-0.27042
7745	P0C206	Q9BQI7	-1.0026
7746	P0C206	P10646	-0.75482
7747	P0C206	Q96HP4	-0.35197
7748	P0C206	P06313	-0.9894
7749	P0C206	P11086	-0.12491
7750	P0C206	Q9NRC9	-0.81371
7751	P0C206	P59768	-0.45553
7752	P0C206	Q9UBQ6	-1.1652

7753	P0C206	Q8NEV9	-0.84416
7754	P0C206	P32239	-0.54929
7755	P0C206	Q9BRR6	-0.75318
7756	P0C206	Q8NEJ0	-0.32798
7757	P0C206	Q92504	-0.89688
7758	P0C206	Q7Z422	-0.056641
7759	P0C206	Q9H0D6	-0.15167
7760	P0C206	Q14289	-0.23351
7761	P0C206	Q8TDX6	-0.40987
7762	P0C206	Q04118	-0.77729
7763	P0C206	Q58FF8	-0.4889
7764	P0C206	Q8NC06	-0.43776
7765	P0C206	Q8IUH3	-0.53966
7766	P0C206	Q9H3U1	-0.22695
7767	P0C206	P61019	-0.51116
7768	P0C206	Q9HBV2	-0.79503
7769	P0C206	Q96P26	-0.29785
7770	P0C206	Q9BRI3	-0.62122
7771	P0C206	Q9BRK5	-0.22309
7772	P0C206	Q9NPG8	-0.77292
7773	P0C206	A6NKT7	-0.35325
7774	P0C206	Q8IZC4	-0.72207
7775	P0C206	P36269	-0.82109
7776	P0C206	Q9H300	-0.63359
7777	P0C206	P36955	-0.83801
7778	P0C206	O75200	-0.80952
7779	P0C206	Q9NXH8	-1.3066
7780	P0C206	P53708	-0.86438
7781	P0C206	Q9HCY8	-0.25305
7782	P0C206	Q17RW2	-0.9459
7783	P0C206	Q9BQI4	-0.78747
7784	P0C206	O15394	-1.1012
7785	P0C206	Q99643	-0.39229
7786	P0C206	Q13085	-0.30133
7787	P0C206	P10632	-0.66558
7788	P0C206	Q16099	-0.67629
7789	P0C206	A6NHN6	-0.80952
7790	P0C206	Q9Y4I1	-0.20629
7791	P0C206	Q16322	-0.75657
7792	P0C206	B4DJY2	-0.79976
7793	P0C206	Q9H221	-0.64836
7794	P0C206	P51812	-0.22017
7795	P0C206	P04004	-0.83062
7796	P0C206	A0AV96	-0.53413
7797	P0C206	Q9NXF8	-0.6098
7798	P0C206	Q56NI9	-0.11303
7799	P0C206	Q96F44	-0.2281
7800	P0C206	Q92508	-0.87593
7801	P0C206	Q13418	-0.32259
7802	P0C206	P01834	-0.9894
7803	P0C206	Q9NY65	-0.39209
7804	P0C206	Q6IBS0	-0.3811
7805	P0C206	Q14717	-0.12047
7806	P0C206	Q9UKG9	-0.50659
7807	P0C206	P13284	-1.0442
7808	P0C206	Q9BRB3	-0.70567
7809	P0C206	P52943	-0.22845
7810	P0C206	Q8WV19	-0.40699
7811	P0C206	Q9ULJ8	-0.22703
7812	P0C206	P12544	-0.38374
7813	P0C206	Q96DW6	-0.54457
7814	P0C206	P29622	-0.71654
7815	P0C206	Q8NGQ2	-1.1763
7816	P0C206	A6NKF7	-0.79503
7817	P0C206	A8MTL9	-0.75923
7818	P0C206	Q70EK9	-0.5726
7819	P0C206	Q86YR7	-0.67089
7820	P0C206	Q9GZS9	-0.44535
7821	P0C206	Q8NAU1	-1.2086
7822	P0C206	P15374	-0.19424
7823	P0C206	O75445	-0.74597
7824	P0C206	O75056	-0.84516
7825	P0C206	Q5TCX8	-1.0107
7826	P0C206	Q92538	-0.2128
7827	P0C206	P51648	-1.0008
7828	P0C206	P01860	-0.9687

7829	P0C206	O14649	-0.98163
7830	P0C206	Q8IZJ6	-0.67491
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7832	P0C206	Q8N8V2	-0.961
7833	P0C206	A0FGR9	-0.91833
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7835	P0C206	Q9Y478	-0.18484
7836	P0C206	P12034	-0.66729
7837	P0C206	Q13825	-0.28929
7838	P0C206	Q13253	-0.31152
7839	P0C206	Q96JJ7	-0.80334
7840	P0C206	Q8WU08	-1.1715
7841	P0C206	P20340	-0.27042
7842	P0C206	Q8N423	-0.4188
7843	P0C206	Q9H2M9	-0.54328
7844	P0C206	Q9NYK1	-0.54983
7845	P0C206	Q8WWG1	-1.3692
7846	P0C206	Q96FC9	-0.32648
7847	P0C206	Q6ZUM4	-0.89462
7848	P0C206	Q5BKT4	-0.82922
7849	P0C206	Q969Y0	-0.80952
7850	P0C206	O60503	-1.0464
7851	P0C206	P10720	-0.87947
7852	P0C206	P36021	-0.84644
7853	P0C206	Q9UDY6	-0.22905
7854	P0C206	P57087	-0.36189
7855	P0C206	Q9BZG1	-0.75431
7856	P0C206	Q9C0D5	-0.4673
7857	P0C206	Q9ULC8	-0.60074
7858	P0C206	Q9UPT6	-0.22482
7859	P0C206	Q8N6D5	-0.2274
7860	P0C206	Q8N6I4	-0.79503
7861	P0C206	A6NJU9	-0.79503
7862	P0C206	Q9HCU4	-1.0246
7863	P0C206	P01857	-0.41658
7864	P0C206	Q5JX69	-0.79503
7865	P0C206	Q6NY19	-0.22744
7866	P0C206	P02753	-0.2818
7867	P0C206	Q14093	-0.39373
7868	P0C206	P29317	-0.6053
7869	P0C206	Q96RP9	-0.70914
7870	P0C206	Q7Z4W2	-0.78748
7871	P0C206	Q8IW75	-0.617
7872	P0C206	Q9NWX5	-0.2274
7873	P0C206	Q13591	-1.0025
7874	P0C206	Q6NXE6	-0.2074
7875	P0C206	Q14558	-0.19725
7876	P0C206	Q17R98	-0.22735
7877	P0C206	O95455	-0.93807
7878	P0C206	Q8N2U0	-0.79503
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7880	P0C206	P30990	-0.88706
7881	P0C206	Q9BX10	-0.8969
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7885	P0C206	Q8IXX5	-0.79503
7886	P0C206	Q96KN8	-0.095246
7887	P0C206	Q13219	-1.1849
7888	P0C206	P22792	-0.77006
7889	P0C206	Q96E17	-0.83207
7890	P0C206	Q8IWR0	-0.21798
7891	P0C206	Q69YU5	-0.80952
7892	P0C206	Q9BU79	-0.79503
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7894	P0C206	P30510	-1.0603
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7897	P0C206	P01891	-1.0001
7898	P0C206	Q9NXD2	-0.38153
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7901	P0C206	Q8NG85	-1.0483
7902	P0C206	Q9UKV5	-0.22842
7903	P0C206	Q9BRF8	-0.14767
7904	P0C206	Q9HBR0	-0.87335

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7906	P0C206	P57773	-0.9183
7907	P0C206	A2PYH4	-0.7415
7908	P0C206	Q96QK8	-0.79503
7909	P0C206	Q5T4W7	-0.88101
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7911	P0C206	P04222	-1.0001
7912	P0C206	Q9NXS3	-0.18277
7913	P0C206	Q8NG35	-0.77981
7914	P0C206	O96024	-0.66569
7915	P0C206	Q8WWU7	-1.0532
7916	P0C206	P22309	-0.49356
7917	P0C206	Q9BYE9	-0.49731
7918	P0C206	Q2MJR0	-0.52463
7919	P0C206	Q15063	-1.1968
7920	P0C206	Q5SSQ6	-0.1101
7921	P0C206	Q9BZJ8	-1.1108
7922	P0C206	Q9BY49	-1.0031
7923	P0C206	P47989	-0.52688
7924	P0C206	Q9NP55	-0.88719
7925	P0C206	P15814	-0.94474
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7927	P0C206	Q9NSY2	-0.29467
7928	P0C206	Q15760	-1.3861
7929	P0C206	Q16609	-0.62908
7930	P0C206	P04206	-0.9894
7931	P0C206	Q6ZP01	-0.52955
7932	P0C206	Q95772	-0.74421
7933	P0C206	Q9UIR0	-0.79503
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7935	P0C206	Q96L15	-0.79026
7936	P0C206	Q9GZM5	-0.57998
7937	P0C206	Q43930	-1.13
7938	P0C206	Q5SZQ8	-0.43763
7939	P0C206	P09455	-0.29172
7940	P0C206	Q14761	-0.90158
7941	P0C206	Q9Y6W3	-0.64192
7942	P0C206	Q8NFP9	-0.22741
7943	P0C206	Q6UWV2	-0.38131
7944	P0C206	Q43610	-0.24598
7945	P0C206	Q6DN03	-0.66158
7946	P0C206	Q86W10	-1.0978
7947	P0C206	Q01726	-0.57718
7948	P0C206	A6NE01	-0.18123
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7950	P0C206	O60812	-0.42372
7951	P0C206	P30512	-0.92002
7952	P0C206	Q92527	-0.22737
7953	P0C206	Q6P2N6	-0.91833
7954	P0C206	Q9UHF0	-0.93323
7955	P0C206	O14511	-1.356
7956	P0C206	P56856	-0.66396
7957	P0C206	O95258	-0.68671
7958	P0C206	Q9BZF3	-0.24435
7959	P0C206	Q9UHC7	-0.22182
7960	P0C206	Q8TF62	-0.99922
7961	P0C206	P17980	-0.31201
7962	P0C206	Q8IWI9	-0.38472
7963	P0C206	P13760	-0.46002
7964	P0C206	Q96AC6	-0.39587
7965	P0C206	P48544	-0.55027
7966	P0C206	Q14847	-0.22741
7967	P0C206	Q6QHK4	-0.24071
7968	P0C206	Q8NAC3	-0.87647
7969	P0C206	P43365	-0.092462
7970	P0C206	Q9BXA7	-1.2011
7971	P0C206	B1ANH7	-0.17258
7972	P0C206	P56880	-0.66396
7973	P0C206	Q01968	-0.30009
7974	P0C206	Q86X45	-0.22741
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7976	P0C206	P40238	-0.98954
7977	P0C206	Q96PE2	-0.51781
7978	P0C206	P05165	-0.59474
7979	P0C206	Q6ZVZ8	-0.48675
7980	P0C206	P80098	-0.93124

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7982	P0C206	Q99102	-1.4758
7983	P0C206	P59861	-0.77981
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7985	P0C206	Q99424	-0.77366
7986	P0C206	Q499Y3	-0.065031
7987	P0C206	O15020	-0.22885
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7991	P0C206	Q9H013	-1.1308
7992	P0C206	Q04828	-0.22632
7993	P0C206	Q6HA08	-0.56315
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8001	P0C206	Q13733	-0.98631
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8004	P0C206	P55316	-0.45919
8005	P0C206	Q15417	-0.44803
8006	P0C206	Q8NH21	-1.1763
8007	P0C206	Q4QY38	-0.77981
8008	P0C206	Q9UHG3	-0.58837
8009	P0C206	P04141	-0.11224
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8012	P0C206	P43304	-0.22797
8013	P0C206	Q9UNI6	-0.27792
8014	P0C206	Q6ZWB6	-0.1758
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8016	P0C206	Q9Y385	-1.2458
8017	P0C206	P13797	-0.22771
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8026	P0C206	P29218	-0.18707
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8029	P0C206	Q01650	-0.6622
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8031	P0C206	A6NC51	-0.79503
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8033	P0C206	Q709F0	-0.5374
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8035	P0C206	Q8TC41	-0.95824
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8038	P0C206	Q96RT6	-0.67788
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8040	P0C206	Q9NPC2	-1.0344
8041	P0C206	O60882	-0.80078
8042	P0C206	P0C870	-0.10674
8043	P0C206	P19971	-0.40364
8044	P0C206	P0C645	-1.1763
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8046	P0C206	Q9C0C4	-0.71093
8047	P0C206	Q6NUN0	-0.94889
8048	P0C206	Q14CX5	-0.79503
8049	P0C206	P55010	-0.32362
8050	P0C206	Q8NGN0	-1.1763
8051	P0C206	P12314	-0.7367
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8053	P0C206	P17481	-0.21452
8054	P0C206	Q9BT30	-0.47512
8055	P0C206	O95158	-0.67014
8056	P0C206	Q96M98	-0.13801

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8060	P0C206	Q9NX76	-0.85091
8061	P0C206	P46734	-0.22828
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8083	P0C206	P31645	-0.29455
8084	P0C206	Q15822	-0.88124
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8090	P0C206	Q8NH61	-1.1763
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8095	P0C206	P31937	-0.44779
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8141	POC206	Q9ULW5	-0.77592
8142	POC206	P09210	-0.22544
8143	POC206	Q8TE59	-1.173
8144	POC206	Q9Y2T1	-0.74112
8145	POC206	P32927	-0.59487
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8149	POC206	Q8N2K1	-1.1131
8150	POC206	Q580R0	-0.37293
8151	POC206	P0CG40	-0.1879
8152	POC206	Q9NY84	-0.34274
8153	POC206	P11021	-0.22104
8154	POC206	Q9NWQ9	-0.27934
8155	POC206	P33908	-0.57906
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8165	POC206	Q96Q11	-0.50669
8166	POC206	O60337	-0.82963
8167	POC206	Q8NHP8	-0.44155
8168	POC206	Q6ZW05	-0.5634
8169	POC206	Q9NPB9	-1.3426
8170	POC206	Q9UIJ5	-0.73987
8171	POC206	Q92887	-0.79293
8172	POC206	H3BV60	-0.79503
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8184	POC206	P02729	-0.71676
8185	POC206	Q9BRV3	-0.25579
8186	POC206	Q9NWF4	-0.93475
8187	POC206	Q9BXJ1	-0.87668
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8189	POC206	Q9Y2C9	-0.68837
8190	POC206	Q8IU68	-0.89601
8191	POC206	Q969G6	-0.33707
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8193	POC206	Q58FF7	-0.4889
8194	POC206	Q9H3P7	-0.43846
8195	POC206	Q6NXT4	-0.61581
8196	POC206	O75828	-0.22658
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8200	POC206	Q13459	-0.20034
8201	POC206	Q8IX01	-0.14828
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8206	POC206	Q8IWU4	-0.46792
8207	POC206	Q6NW40	-0.62856
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8214	P0C206	P14151	-0.58957
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8216	P0C206	Q96L73	-0.22764
8217	P0C206	O43837	-0.10075
8218	P0C206	Q6PCB7	-0.5941
8219	P0C206	P31358	-0.53808
8220	P0C206	O15090	-0.22063
8221	P0C206	Q7Z5L4	-0.59105
8222	P0C206	Q9HC47	-0.76957
8223	P0C206	Q5RGS2	-0.79503
8224	P0C206	Q6UWS5	-0.04002
8225	P0C206	Q9P1W3	-0.79503
8226	P0C206	A6PVC2	-0.20283
8227	P0C206	P27544	-0.4724
8228	P0C206	Q7Z3Z3	-0.4389
8229	P0C206	Q8WY64	-0.22742
8230	P0C206	Q8NH49	-1.1763
8231	P0C206	A6NMU1	-1.1763
8232	P0C206	O14753	-0.21547
8233	P0C206	Q14520	-1.4553
8234	P0C206	Q0P5P2	-0.80952
8235	P0C206	P15882	-0.75264
8236	P0C206	P01604	-0.9894
8237	P0C206	A8MV23	-0.66462
8238	P0C206	Q9Y4L1	-0.55015
8239	P0C206	Q96J01	-0.22702
8240	P0C206	P29034	-0.25189
8241	P0C206	P35475	-0.39462
8242	P0C206	P17538	-1.3413
8243	P0C206	P12830	-0.57974
8244	P0C206	Q96PH1	-0.80537
8245	P0C206	Q7Z5A4	-1.3203
8246	P0C206	Q13308	-0.44025
8247	P0C206	P01705	-0.9894
8248	P0C206	Q9H9A6	-0.22969
8249	P0C206	Q8TBR5	-0.089878
8250	P0C206	Q05923	-0.23144
8251	P0C206	Q96L08	-0.79503
8252	P0C206	Q8WW27	-0.23086
8253	P0C206	Q9UBU2	-0.97365
8254	P0C206	P21728	-0.32144
8255	P0C206	P30532	-0.9526
8256	P0C206	Q92826	-0.22708
8257	P0C206	Q8N594	-0.58106
8258	P0C206	Q99784	-0.22727
8259	P0C206	P60022	-0.84122
8260	P0C206	Q7Z478	-0.23994
8261	P0C206	Q9BXS0	-1.5741
8262	P0C206	Q07507	-1.1315
8263	P0C206	Q8NGJ0	-1.1763
8264	P0C206	Q6ZRP7	-1.1404
8265	P0C206	Q8IYR0	-0.088319
8266	P0C206	Q8TB61	-0.662
8267	P0C206	P05186	-0.95389
8268	P0C206	P20155	-0.73784
8269	P0C206	Q9BYC5	-0.46513
8270	P0C206	Q9BXY4	-0.82815
8271	P0C206	O95235	-0.29277
8272	P0C206	P29377	-0.26369
8273	P0C206	Q4G0W2	-0.70859
8274	P0C206	Q06187	-0.22741
8275	P0C206	O15335	-0.8569
8276	P0C206	Q9H6I2	-0.16316
8277	P0C206	Q8NI22	-0.34206
8278	P0C206	O14793	-0.36896
8279	P0C206	Q9Y5H7	-1.2044
8280	P0C206	Q5SQS7	-0.2274
8281	P0C206	Q9BR26	-0.80827
8282	P0C206	Q04609	-0.80165
8283	P0C206	Q6UWF7	-0.80952
8284	P0C206	O15530	-0.22449

8285	POC206	Q6Q6R5	-0.23568
8286	POC206	Q6UXR6	-0.80952
8287	POC206	Q9NQG1	-0.79503
8288	POC206	Q8NI38	-0.2274
8289	POC206	Q06710	-0.22698
8290	POC206	Q9BZY9	-0.22722
8291	POC206	O43921	-0.30073
8292	POC206	Q9NYA4	-0.21902
8293	POC206	Q9UBC7	-0.6749
8294	POC206	Q2M3V2	-0.22741
8295	POC206	O60635	-0.92342
8296	POC206	Q96M93	-0.78072
8297	POC206	A6NFX0	-0.79503
8298	POC206	A6NC86	-0.79159
8299	POC206	O95409	-0.22702
8300	POC206	Q99943	-0.62131
8301	POC206	Q86VE9	-0.71456
8302	POC206	P35713	-0.31261
8303	POC206	Q07890	-0.22741
8304	POC206	P19440	-0.29203
8305	POC206	Q8N5H7	-0.57519
8306	POC206	P05166	-0.39237
8307	POC206	Q16560	-0.49537
8308	POC206	P55287	-1.129
8309	POC206	P30414	-0.25132
8310	POC206	Q9NP91	-0.98412
8311	POC206	Q9P0P0	-0.29043
8312	POC206	Q9ULB4	-1.0091
8313	POC206	O75094	-0.68879
8314	POC206	Q9NRC6	-0.23713
8315	POC206	Q8NGM1	-1.1763
8316	POC206	Q86T96	-0.49505
8317	POC206	Q6IE37	-0.79178
8318	POC206	Q9HAW7	-0.69777
8319	POC206	Q9H0X4	-0.79503
8320	POC206	P31146	-0.22741
8321	POC206	O94967	-0.22744
8322	POC206	Q9Y5Y4	-1.2675
8323	POC206	Q8IWU5	-0.36285
8324	POC206	P22694	-0.22619
8325	POC206	Q9BPW4	-0.96187
8326	POC206	Q9NVG8	-1.2801
8327	POC206	Q7RTX9	-0.83852
8328	POC206	Q13332	-0.72191
8329	POC206	Q7Z309	-0.10644
8330	POC206	O75808	-0.61271
8331	POC206	Q32ZL2	-0.89394
8332	POC206	O00418	-0.82754
8333	POC206	O43147	-0.88845
8334	POC206	O43347	-0.36615
8335	POC206	Q8N0X2	-0.22788
8336	POC206	P51168	-0.42842
8337	POC206	Q08117	-0.42992
8338	POC206	Q9Y5G7	-1.1512
8339	POC206	Q8WWX8	-0.86872
8340	POC206	Q7L7L0	-0.66158
8341	POC206	P43250	-1.1463
8342	POC206	Q99218	-1.0615
8343	POC206	Q8TDW7	-1.3181
8344	POC206	P41159	-0.3807
8345	POC206	P30273	-0.62302
8346	POC206	Q8N335	-0.18657
8347	POC206	P98164	-0.2817
8348	POC206	P11169	-0.1412
8349	POC206	O15054	-0.36101
8350	POC206	Q99748	-0.5649
8351	POC206	Q8NFI4	-0.22698
8352	POC206	Q4VC12	-0.21594
8353	POC206	Q8IX06	-0.043096
8354	POC206	P31644	-0.79868
8355	POC206	Q8NDA2	-0.96838
8356	POC206	Q16473	-0.22741
8357	POC206	Q07326	-0.80939
8358	POC206	P0C7X0	-0.19106
8359	POC206	P01233	-0.74617
8360	POC206	Q6ZV29	-0.42016

8361	P0C206	P12644	-0.22741
8362	P0C206	Q7Z6K3	-0.27609
8363	P0C206	Q96DU9	-0.61001
8364	P0C206	Q9NR21	-0.28641
8365	P0C206	P38435	-0.81047
8366	P0C206	Q8NGT9	-1.1763
8367	P0C206	P12318	-0.89738
8368	P0C206	Q8IX19	-0.79503
8369	P0C206	Q0P651	-0.80952
8370	P0C206	Q9H306	-1.2353
8371	P0C206	Q9H6B4	-0.7488
8372	P0C206	Q8TCT6	-0.95802
8373	P0C206	P49760	-0.52808
8374	P0C206	P48547	-0.77342
8375	P0C206	A4QPB2	-0.22742
8376	P0C206	Q9NY35	-0.81745
8377	P0C206	O14795	-0.22741
8378	P0C206	Q8N3K9	-0.22764
8379	P0C206	Q8N8Q9	-0.90363
8380	P0C206	A8MWL7	-0.79503
8381	P0C206	O60500	-0.54472
8382	P0C206	O43169	-0.62839
8383	P0C206	P35610	-0.78308
8384	P0C206	Q96AZ6	-0.18299
8385	P0C206	Q5VVX9	-0.79328
8386	P0C206	P29466	-0.22735
8387	P0C206	Q6P6B7	-0.22742
8388	P0C206	Q12766	-0.22736
8389	P0C206	Q6URH7	-0.074484
8390	P0C206	Q6IFG1	-1.1763
8391	P0C206	P13639	-0.24867
8392	P0C206	Q14449	-0.22741
8393	P0C206	Q9Y263	-0.22872
8394	P0C206	Q69YZ2	-0.79503
8395	P0C206	P17931	-0.15941
8396	P0C206	Q8NH73	-1.1763
8397	P0C206	A6NJT0	-0.18744
8398	P0C206	Q53H54	-0.15587
8399	P0C206	O60469	-0.92218
8400	P0C206	Q13976	-0.37481
8401	P0C206	O60344	-0.84606
8402	P0C206	Q8IYT3	-0.17777
8403	P0C206	Q86UX7	-0.55669
8404	P0C206	Q86Y07	-0.37571
8405	P0C206	P02675	-0.85165
8406	P0C206	Q8NGL6	-1.1763
8407	P0C206	Q96A28	-0.80743
8408	P0C206	Q6P5W5	-0.7126
8409	P0C206	Q8TAT2	-0.79787
8410	P0C206	Q9BX68	-0.1841
8411	P0C206	P05112	-0.18266
8412	P0C206	P47902	-0.23555
8413	P0C206	P54819	-0.57232
8414	P0C206	Q7Z449	-1.0569
8415	P0C206	P35611	-0.16445
8416	P0C206	Q5SQH8	-0.13667
8417	P0C206	Q8NCG7	-0.77116
8418	P0C206	Q5EB52	-0.93508
8419	P0C206	Q92604	-0.55189
8420	P0C206	Q9P2E5	-0.39029
8421	P0C206	Q9P2A4	-0.22747
8422	P0C206	Q96GQ7	-0.4499
8423	P0C206	Q9Y5E9	-1.1388
8424	P0C206	P48730	-0.22741
8425	P0C206	P11229	-0.79851
8426	P0C206	Q9NY97	-0.42116
8427	P0C206	Q99880	-0.66158
8428	P0C206	Q9BYT1	-0.68749
8429	P0C206	Q9H3D4	-0.22715
8430	P0C206	Q86UF4	-0.032136
8431	P0C206	Q9P0S9	-0.62641
8432	P0C206	O60902	-0.12308
8433	P0C206	Q9Y343	-0.4024
8434	P0C206	P23219	-0.3172
8435	P0C206	P47755	-0.45148
8436	P0C206	Q9UN66	-1.1512

8437	POC206	Q8NBV8	-0.71304
8438	POC206	Q03113	-0.55359
8439	POC206	P04437	-0.33576
8440	POC206	P10809	-0.15683
8441	POC206	P21730	-1.1688
8442	POC206	Q15399	-0.70995
8443	POC206	P11310	-0.4628
8444	POC206	Q8NCS4	-0.79503
8445	POC206	P08754	-0.31142
8446	POC206	Q969W1	-0.82731
8447	POC206	Q9NPF8	-0.53532
8448	POC206	Q9UGI8	-0.54761
8449	POC206	Q29974	-0.52074
8450	POC206	Q8TF61	-0.45099
8451	POC206	Q7Z5R6	-0.412
8452	POC206	Q16478	-0.64257
8453	POC206	Q8N4V2	-0.65624
8454	POC206	P59510	-1.0494
8455	POC206	Q9Y5H5	-1.1512
8456	POC206	Q9BTV6	-0.22745
8457	POC206	Q6SZW1	-0.42812
8458	POC206	Q8NGL0	-1.1763
8459	POC206	P21439	-0.99522
8460	POC206	Q8NGT0	-1.1763
8461	POC206	Q8N3Y7	-1.4243
8462	POC206	O95477	-0.41433
8463	POC206	P04229	-0.52257
8464	POC206	Q43529	-0.61849
8465	POC206	Q8TD43	-0.7664
8466	POC206	Q9UQ53	-0.44466
8467	POC206	P61587	-1.1755
8468	POC206	Q30134	-0.63497
8469	POC206	Q75907	-0.5255
8470	POC206	Q9H4A4	-0.79391
8471	POC206	Q6XUX3	-0.57665
8472	POC206	Q58FG1	-0.4889
8473	POC206	Q8NCL4	-0.54325
8474	POC206	P49223	-0.75923
8475	POC206	P02458	-0.57746
8476	POC206	Q9HCN3	-0.9994
8477	POC206	Q3ZCW2	-0.50023
8478	POC206	O60542	-0.75812
8479	POC206	Q15382	-1.1606
8480	POC206	Q68CR7	-0.79503
8481	POC206	P01599	-0.9894
8482	POC206	P02745	-0.33325
8483	POC206	Q9NP78	-0.75203
8484	POC206	Q9NRY6	-0.54528
8485	POC206	P30301	-0.88198
8486	POC206	Q8NH94	-1.1763
8487	POC206	O75426	-0.29388
8488	POC206	Q9H6X4	-0.79503
8489	POC206	Q8NHJ6	-0.46246
8490	POC206	P33991	-0.21857
8491	POC206	P11465	-0.65055
8492	POC206	Q9H7B7	-0.80952
8493	POC206	P07686	-0.30764
8494	POC206	A6NNM3	-0.22738
8495	POC206	P02790	-0.22446
8496	POC206	Q96R45	-1.1763
8497	POC206	Q07654	-0.81616
8498	POC206	A1L4M7	-0.016255
8499	POC206	Q15649	-0.14395
8500	POC206	Q6UX53	-0.30069
8501	POC206	Q53RT3	-1.0382
8502	POC206	Q5TC79	-0.22704
8503	POC206	P52954	-0.23196
8504	POC206	Q9UBR2	-0.79137
8505	POC206	O75298	-0.36968
8506	POC206	P49736	-0.20381
8507	POC206	O95754	-0.84574
8508	POC206	P01116	-0.29308
8509	POC206	P54802	-0.25873
8510	POC206	Q9P227	-1.1223
8511	POC206	P51449	-0.34185
8512	POC206	Q9Y2X7	-0.22741

8513	POC206	Q0P6D2	-0.89601
8514	POC206	A8K2U0	-0.77505
8515	POC206	Q5T2S8	-0.22885
8516	POC206	Q9BXT4	-0.30806
8517	POC206	Q1XH10	-0.41575
8518	POC206	Q95970	-0.2285
8519	POC206	Q6NUT2	-1.1553
8520	POC206	Q9NYR9	-0.90872
8521	POC206	Q9UQ72	-0.81994
8522	POC206	P02746	-0.39503
8523	POC206	Q7Z3B0	-0.79503
8524	POC206	Q92974	-0.22745
8525	POC206	P62158	-0.22714
8526	POC206	Q9H1E1	-0.64338
8527	POC206	A8MW99	-0.45389
8528	POC206	Q9BX51	-0.2062
8529	POC206	P63244	-0.22809
8530	POC206	Q13177	-0.22812
8531	POC206	P08603	-0.87211
8532	POC206	Q9H8J5	-0.79503
8533	POC206	P02751	-0.38976
8534	POC206	P32856	-0.26714
8535	POC206	Q9NUG6	-0.0636
8536	POC206	P25092	-0.93454
8537	POC206	Q9Y2S2	-0.34189
8538	POC206	Q5T4S7	-0.089934
8539	POC206	Q9H7M9	-0.79503
8540	POC206	Q8NGL7	-1.1763
8541	POC206	Q9HBH5	-0.91467
8542	POC206	Q8IZP6	-0.22736
8543	POC206	P28328	-0.22255
8544	POC206	Q9NS66	-1.2448
8545	POC206	P61221	-0.38156
8546	POC206	Q86SM5	-1.2448
8547	POC206	A8MXQ7	-0.22741
8548	POC206	Q5VXJ0	-0.81079
8549	POC206	Q8N8Y2	-0.057582
8550	POC206	Q5U5Q3	-0.22738
8551	POC206	P01737	-0.33576
8552	POC206	Q14982	-0.73445
8553	POC206	Q14981	-0.35756
8554	POC206	Q9HA47	-0.69791
8555	POC206	Q95490	-1.0431
8556	POC206	Q9H0T7	-1.1626
8557	POC206	Q9NY28	-0.60657
8558	POC206	O00241	-0.68458
8559	POC206	Q8N743	-0.91833
8560	POC206	A6NFA1	-0.70058
8561	POC206	P35498	-0.87027
8562	POC206	Q9NY15	-1.0278
8563	POC206	F8WCM5	-0.59438
8564	POC206	Q76000	-1.1763
8565	POC206	P50553	-0.58952
8566	POC206	Q9Y5W5	-1.0658
8567	POC206	Q9ULI2	-0.63999
8568	POC206	Q9UPQ8	-0.80832
8569	POC206	P01210	-0.89568
8570	POC206	O00515	-0.85281
8571	POC206	P01781	-0.9894
8572	POC206	P09382	-0.56001
8573	POC206	Q6P3X3	-0.22657
8574	POC206	Q7L014	-0.59796
8575	POC206	Q06481	-0.21812
8576	POC206	Q8NGL1	-1.1763
8577	POC206	Q9P003	-0.72378
8578	POC206	Q9Y3E0	-0.3564
8579	POC206	Q9HC56	-1.1125
8580	POC206	Q75840	-0.22496
8581	POC206	Q86XX4	-1.0344
8582	POC206	Q9Y691	-0.91722
8583	POC206	Q9UNX9	-1.0101
8584	POC206	Q6ZMI0	-0.14042
8585	POC206	Q76N89	-0.22741
8586	POC206	Q94804	-0.58779
8587	POC206	Q8TEW8	-0.22635
8588	POC206	Q9NVL1	-0.17553

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8590	P0C206	Q30KQ6	-0.77981
8591	P0C206	P13591	-1.2528
8592	P0C206	Q8N5Y8	-0.46007
8593	P0C206	Q9UIG8	-0.91972
8594	P0C206	Q9HC36	-0.063363
8595	P0C206	P21589	-0.43427
8596	P0C206	A2A3K4	-0.6349
8597	P0C206	Q9BXI2	-0.47896
8598	P0C206	Q15012	-0.63869
8599	P0C206	Q9ULV1	-0.44393
8600	P0C206	Q9BXL6	-0.34594
8601	P0C206	Q6NXG1	-0.55414
8602	P0C206	Q9P203	-0.2237
8603	P0C206	P59533	-1.1287
8604	P0C206	Q96N96	-0.2276
8605	P0C206	Q8TDX7	-0.62232
8606	P0C206	Q6ZWJ8	-0.80952
8607	P0C206	Q9UJJ9	-0.65167
8608	P0C206	Q99447	-0.37507
8609	P0C206	Q9H4Q4	-0.22794
8610	P0C206	P27918	-0.92375
8611	P0C206	Q6UXR4	-0.66462
8612	P0C206	Q75648	-0.39988
8613	P0C206	Q86Y78	-0.80952
8614	P0C206	B2RU33	-0.22739
8615	P0C206	A6NCL7	-0.22743
8616	P0C206	P04075	-0.34757
8617	P0C206	Q92620	-0.22444
8618	P0C206	O95622	-0.73853
8619	P0C206	P08686	-0.71667
8620	P0C206	Q8WVB6	-0.69562
8621	P0C206	Q7Z5M8	-0.21803
8622	P0C206	Q8NGB6	-1.1763
8623	P0C206	Q9H1R2	-0.26944
8624	P0C206	Q9NYW6	-1.0741
8625	P0C206	P55039	-0.67416
8626	P0C206	Q7RTZ1	-1.3213
8627	P0C206	O43741	-0.56062
8628	P0C206	Q96P50	-1.0165
8629	P0C206	Q5T7B8	-0.34956
8630	P0C206	P25103	-0.80391
8631	P0C206	Q9P055	-0.73423
8632	P0C206	Q9UGI9	-0.92713
8633	P0C206	Q30KQ8	-0.77981
8634	P0C206	Q86UE6	-0.7202
8635	P0C206	Q9BXB7	-0.48324
8636	P0C206	P34998	-0.63201
8637	P0C206	Q6NVV7	-0.030459
8638	P0C206	Q9NYQ7	-1.0233
8639	P0C206	Q8N6Y2	-0.78768
8640	P0C206	Q9UKF7	-0.13938
8641	P0C206	Q9HBA0	-0.42018
8642	P0C206	Q4V321	-0.13445
8643	P0C206	Q04826	-0.99995
8644	P0C206	Q8NFD2	-1.13
8645	P0C206	P04216	-0.19597
8646	P0C206	P37058	-0.47417
8647	P0C206	Q5JRV8	-0.79503
8648	P0C206	Q92630	-0.47079
8649	P0C206	Q5TCH4	-0.71917
8650	P0C206	Q8IX18	-0.7415
8651	P0C206	Q7Z3H4	-0.21141
8652	P0C206	Q9BRS2	-1.0992
8653	P0C206	Q8IY17	-0.69787
8654	P0C206	Q6P996	-0.44585
8655	P0C206	P29965	-0.98443
8656	P0C206	Q9HCH3	-0.36937
8657	P0C206	P0C7U0	-0.7828
8658	P0C206	Q6UWM5	-0.80952
8659	P0C206	P04181	-0.098017
8660	P0C206	O15209	-0.22544
8661	P0C206	Q15311	-0.32092
8662	P0C206	Q15813	-0.22741
8663	P0C206	Q96PF2	-0.68954
8664	P0C206	Q9NQF3	-0.21168

8665	P0C206	Q8NG75	-1.1763
8666	P0C206	Q9Y508	-0.84751
8667	P0C206	Q9BPX5	-0.086419
8668	P0C206	P12109	-0.87945
8669	P0C206	Q8TBP0	-1.2801
8670	P0C206	Q5M8T2	-0.66813
8671	P0C206	Q9H0C3	-0.63987
8672	P0C206	Q9UKJ0	-0.32565
8673	P0C206	P15382	-0.83377
8674	P0C206	Q9H1C0	-0.96328
8675	P0C206	Q9Y2P4	-1.2453
8676	P0C206	Q969J3	-0.10952
8677	P0C206	Q99805	-0.71768
8678	P0C206	Q9NX47	-0.23262
8679	P0C206	Q9Y646	-0.76636
8680	P0C206	Q92908	-0.22738
8681	P0C206	P43121	-1.0178
8682	P0C206	Q16825	-0.38947
8683	P0C206	Q6IC10	-0.79503
8684	P0C206	Q5BKX6	-0.72669
8685	P0C206	Q7L1T6	-0.44532
8686	P0C206	Q7L5N7	-0.6746
8687	P0C206	Q2W9J9	-0.79503
8688	P0C206	Q96PD2	-1.0398
8689	P0C206	O14921	-0.22764
8690	P0C206	Q9NRB3	-0.42624
8691	P0C206	Q8N111	-0.79503
8692	P0C206	Q6ZV89	-0.21622
8693	P0C206	P0C6C1	-0.22741
8694	P0C206	Q8IYP2	-1.3203
8695	P0C206	Q86XT4	-0.31825
8696	P0C206	P14384	-0.17906
8697	P0C206	P48067	-0.84637
8698	P0C206	Q8NH05	-1.1763
8699	P0C206	P29074	-0.2276
8700	P0C206	P01854	-0.2702
8701	P0C206	Q9Y584	-0.34862
8702	P0C206	Q9NP99	-1.4547
8703	P0C206	P60201	-0.49433
8704	P0C206	Q5T4J0	-0.62043
8705	P0C206	P07437	-0.14917
8706	P0C206	P0C5Y9	-0.69547
8707	P0C206	Q9UPQ3	-1.1729
8708	P0C206	Q07817	-0.2273
8709	P0C206	Q9Y5L3	-1.128
8710	P0C206	C9JJH3	-0.59814
8711	P0C206	Q9Y3A6	-0.35749
8712	P0C206	Q658N2	-0.82238
8713	P0C206	Q96SL4	-1.1483
8714	P0C206	Q9H6L2	-0.87353
8715	P0C206	Q8NGD5	-1.1763
8716	P0C206	Q9BXB4	-0.60853
8717	P0C206	O95452	-0.90995
8718	P0C206	Q96KX1	-0.14164
8719	P0C206	Q2KHN1	-0.22741
8720	P0C206	P98177	-0.43196
8721	P0C206	Q13115	-0.2347
8722	P0C206	Q8NGD3	-1.1763
8723	P0C206	Q8IVL8	-1.0826
8724	P0C206	Q15904	-0.80804
8725	P0C206	P30531	-0.54325
8726	P0C206	P36537	-0.91418
8727	P0C206	O43374	-0.34903
8728	P0C206	O75592	-0.22604
8729	P0C206	Q6IS24	-0.61743
8730	P0C206	Q9H346	-1.1763
8731	P0C206	Q2M5E4	-0.5148
8732	P0C206	Q9Y3L5	-0.76203
8733	P0C206	Q8NB14	-0.59814
8734	P0C206	Q2T9J0	-0.54885
8735	P0C206	Q7Z570	-0.44814
8736	P0C206	Q69YN2	-0.29088
8737	P0C206	Q9Y328	-0.57189
8738	P0C206	Q5JV73	-0.22704
8739	P0C206	Q86XF0	-0.29343
8740	P0C206	Q9BWQ8	-0.53906



8741	P0C206	Q13627	-0.2515
8742	P0C206	Q685J3	-0.59905
8743	P0C206	Q02535	-0.22429
8744	P0C206	Q9Y267	-0.87232
8745	P0C206	Q8N104	-0.77981
8746	P0C206	Q8WXQ8	-1.0826
8747	P0C206	Q9Y4W6	-0.56744
8748	P0C206	P09228	-0.87562
8749	P0C206	Q9P289	-0.27252
8750	P0C206	Q96PZ7	-0.79503
8751	P0C206	Q7L0L9	-0.79503
8752	P0C206	Q7Z410	-1.4475
8753	P0C206	Q5VT25	-0.30499
8754	P0C206	O43182	-0.6435
8755	P0C206	Q99879	-0.66158
8756	P0C206	Q9BZM4	-0.41858
8757	P0C206	P0DM48	-0.22696
8758	P0C206	P52945	-0.53542
8759	P0C206	P61081	-0.12581
8760	P0C206	O95998	-0.77627
8761	P0C206	Q96PC2	-0.38941
8762	P0C206	Q9Y600	-0.39191
8763	P0C206	P40939	-0.10157
8764	P0C206	Q16558	-0.94346
8765	P0C206	P15918	-0.22671
8766	P0C206	Q71H61	-0.82256
8767	P0C206	Q9BV38	-0.43999
8768	P0C206	P05120	-0.50819
8769	P0C206	P17252	-0.21444
8770	P0C206	Q9C0I1	-0.21153
8771	P0C206	Q8N434	-0.7014
8772	P0C206	Q6NUI6	-0.91496
8773	P0C206	Q6P5X7	-0.79503
8774	P0C206	P02730	-0.32072
8775	P0C206	B4E2M5	-0.22741
8776	P0C206	Q9NPA1	-0.9844
8777	P0C206	Q99442	-0.60575
8778	P0C206	O60431	-1.1763
8779	P0C206	O94810	-0.46703
8780	P0C206	Q9NUI1	-1.1463
8781	P0C206	O00501	-0.57359
8782	P0C206	P63126	-0.15319
8783	P0C206	Q9NXS2	-0.81895
8784	P0C206	Q9BWT6	-0.093729
8785	P0C206	P46109	-0.22741
8786	P0C206	Q9UNI1	-0.91748
8787	P0C206	Q8IX05	-0.7194
8788	P0C206	Q8WWF5	-0.49002
8789	P0C206	P32121	-0.45229
8790	P0C206	A6NM36	-0.22799
8791	P0C206	O75914	-0.70201
8792	P0C206	O75096	-0.49139
8793	P0C206	Q9Y5X4	-0.231
8794	P0C206	P18464	-1.0001
8795	P0C206	P39059	-1.6084
8796	P0C206	P51692	-0.22647
8797	P0C206	Q13207	-0.4249
8798	P0C206	P26992	-0.45854
8799	P0C206	Q59H18	-0.22741
8800	P0C206	Q8N628	-1.1763
8801	P0C206	Q9H0Z9	-0.28431
8802	P0C206	Q86UP2	-0.88324
8803	P0C206	Q4VC39	-0.79503
8804	P0C206	Q14410	-0.49971
8805	P0C206	O76076	-0.9653
8806	P0C206	Q3KNS1	-0.62909
8807	P0C206	Q9HCJ6	-0.93444
8808	P0C206	P84996	-0.74226
8809	P0C206	P08575	-0.33209
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8811	P0C206	Q9H3H5	-0.72892
8812	P0C206	Q6NUK1	-0.65286
8813	P0C206	Q9UGM1	-0.79785
8814	P0C206	O15228	-0.46079
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8816	P0C206	O96001	-0.47709

8817	POC206	Q12792	-0.26869
8818	POC206	Q8WZ60	-0.20692
8819	POC206	A2RRP1	-0.035755
8820	POC206	Q15043	-0.82653
8821	POC206	P10319	-0.99995
8822	POC206	Q8NEB9	-0.47905
8823	POC206	Q8NGV6	-1.1763
8824	POC206	Q16619	-0.5644
8825	POC206	Q9HAW8	-0.8238
8826	POC206	Q8TDT2	-1.2448
8827	POC206	P01111	-0.61374
8828	POC206	Q9H871	-0.13511
8829	POC206	Q8NEP7	-0.19711
8830	POC206	Q9H354	-0.79503
8831	POC206	Q15485	-1.2131
8832	POC206	Q66K64	-0.23335
8833	POC206	Q9BQ08	-0.67685
8834	POC206	P46093	-1.3861
8835	POC206	P39060	-0.442
8836	POC206	Q70JA7	-0.39255
8837	POC206	P35372	-0.36863
8838	POC206	O94941	-0.2088
8839	POC206	Q9NYF5	-1.0098
8840	POC206	Q5QNW6	-0.66158
8841	POC206	Q16661	-0.72819
8842	POC206	Q14392	-0.86332
8843	POC206	Q13113	-0.79503
8844	POC206	Q5U651	-0.16717
8845	POC206	P11597	-0.645
8846	POC206	Q16572	-0.88916
8847	POC206	Q9H2F9	-0.13826
8848	POC206	O95859	-1.0264
8849	POC206	Q9H490	-0.79933
8850	POC206	P05093	-0.47568
8851	POC206	P30530	-0.66643
8852	POC206	Q96A98	-0.80849
8853	POC206	Q92752	-0.3726
8854	POC206	Q96GZ6	-0.8985
8855	POC206	Q13070	-0.13445
8856	POC206	P31371	-0.61827
8857	POC206	Q9UI15	-0.20244
8858	POC206	P20718	-0.54259
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8860	POC206	Q01524	-0.84243
8861	POC206	Q8NHC4	-1.1763
8862	POC206	Q8NBB2	-0.12171
8863	POC206	P56539	-0.22284
8864	POC206	Q9UK05	-0.22741
8865	POC206	Q9NSE7	-0.37572
8866	POC206	Q9BPW5	-1.2249
8867	POC206	P01742	-0.9894
8868	POC206	Q9Y6F9	-0.76338
8869	POC206	Q9BXS9	-0.97117
8870	POC206	Q6ZMQ8	-0.65673
8871	POC206	Q9UM01	-0.96046
8872	POC206	Q8TBJ4	-0.88747
8873	POC206	Q15320	-0.26138
8874	POC206	Q7Z4Y8	-0.23166
8875	POC206	Q9NSD7	-1.3378
8876	POC206	Q96PB1	-0.79503
8877	POC206	Q13202	-0.37553
8878	POC206	P60329	-0.20413
8879	POC206	Q9UJV9	-0.5788
8880	POC206	Q96BY9	-0.31246
8881	POC206	Q9P2V4	-0.71044
8882	POC206	Q8TCE9	-0.16063
8883	POC206	Q6ZVU0	-0.018726
8884	POC206	Q86VB7	-1.0022
8885	POC206	Q9Y5H6	-1.2044
8886	POC206	Q86XD8	-0.22182
8887	POC206	Q13461	-0.45919
8888	POC206	Q86XS5	-1.1346
8889	POC206	Q9BY08	-0.85559
8890	POC206	Q9H2X6	-0.22741
8891	POC206	Q12788	-0.23099
8892	POC206	Q9GZY0	-0.18185

8893	P0C206	P47890	-1.1763
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8895	P0C206	Q6UXS9	-0.22461
8896	P0C206	P12259	-0.40033
8897	P0C206	O15393	-1.5927
8898	P0C206	O75677	-0.22896
8899	P0C206	Q15118	-0.62355
8900	P0C206	Q7Z4F1	-0.91333
8901	P0C206	Q16585	-0.54485
8902	P0C206	P29323	-0.8521
8903	P0C206	Q9P107	-0.38522
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8909	P0C206	Q12809	-0.6489
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8911	P0C206	Q9UBX8	-0.45609
8912	P0C206	P15088	-0.5192
8913	P0C206	Q969M1	-0.34122
8914	P0C206	O43897	-1.3564
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8917	P0C206	Q8TF64	-0.22394
8918	P0C206	P21128	-0.72431
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8922	P0C206	Q9NQZ7	-0.69783
8923	P0C206	P35243	-0.56176
8924	P0C206	O14763	-0.28411
8925	P0C206	Q9BV87	-0.78166
8926	P0C206	O75038	-0.37235
8927	P0C206	Q8NBJ9	-0.85184
8928	P0C206	P01909	-0.72614
8929	P0C206	P21731	-0.66554
8930	P0C206	Q9NP58	-0.73955
8931	P0C206	Q15648	-0.12999
8932	P0C206	Q9NZQ7	-0.64468
8933	P0C206	Q15391	-1.1919
8934	P0C206	Q6UVM3	-1.1811
8935	P0C206	Q9BRX9	-0.2277
8936	P0C206	P56937	-1.292
8937	P0C206	Q4LDG9	-0.22741
8938	P0C206	Q4VC31	-0.091539
8939	P0C206	Q9UKG4	-1.0244
8940	P0C206	Q9H6U8	-0.79386
8941	P0C206	Q9NQ11	-1.0757
8942	P0C206	Q5JVL4	-0.33059
8943	P0C206	Q9Y2A9	-0.57575
8944	P0C206	P01607	-0.9894
8945	P0C206	Q02224	-0.26464
8946	P0C206	Q96MU5	-0.80952
8947	P0C206	Q8WWT9	-0.72884
8948	P0C206	P07204	-0.48473
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8952	P0C206	Q8NEY4	-0.28092
8953	P0C206	Q9UK32	-0.66027
8954	P0C206	Q9C0J8	-0.22727
8955	P0C206	A4FU28	-0.79503
8956	P0C206	O95759	-1.2479
8957	P0C206	Q96ER3	-0.78004
8958	P0C206	Q9BZD6	-1.0857
8959	P0C206	P35542	-0.76142
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8961	P0C206	Q9UPI3	-0.79039
8962	P0C206	Q16627	-0.82937
8963	P0C206	Q9NYC9	-0.44243
8964	P0C206	Q86YR5	-0.22277
8965	P0C206	P58546	-0.22741
8966	P0C206	Q9BY84	-0.33127
8967	P0C206	Q8N307	-0.77291
8968	P0C206	Q7Z7M8	-0.62066

8969	P0C206	A6NDD5	-0.63904
8970	P0C206	P0C672	-0.79503
8971	P0C206	Q6IMI6	-0.23447
8972	P0C206	O76094	-0.21016
8973	P0C206	P00441	-0.21648
8974	P0C206	P57078	-0.40355
8975	P0C206	Q8TER0	-0.82054
8976	P0C206	Q9H7Y0	-0.80952
8977	P0C206	Q9NYI0	-0.44463
8978	P0C206	Q3SXY8	-0.6781
8979	P0C206	Q8NH54	-1.1763
8980	P0C206	Q03014	-0.22821
8981	P0C206	Q2TB90	-0.18992
8982	P0C206	P30456	-0.98682
8983	P0C206	P21283	-0.19081
8984	P0C206	P43307	-0.62803
8985	P0C206	Q8IXB3	-0.79976
8986	P0C206	Q5SXH7	-0.32146
8987	P0C206	Q6UWE3	-0.84689
8988	P0C206	P00533	-0.33576
8989	P0C206	Q14964	-0.82883
8990	P0C206	P0C7T3	-1.1763
8991	P0C206	Q9Y3I0	-0.42155
8992	P0C206	Q9H2Y9	-0.8197
8993	P0C206	O75616	-0.7311
8994	P0C206	Q14568	-0.4889
8995	P0C206	Q9Y233	-0.51489
8996	P0C206	Q9BYP7	-0.36494
8997	P0C206	P0C0L5	-1.0929
8998	P0C206	Q16678	-0.69258
8999	P0C206	Q86UQ4	-1.1661
9000	P0C206	B0YJ81	-1.4213
9001	P0C206	P41229	-0.48923
9002	P0C206	Q8WUY9	-0.95122
9003	P0C206	Q8TCT7	-0.296
9004	P0C206	Q92930	-0.64336
9005	P0C206	Q7Z2K6	-1.1518
9006	P0C206	A6NKQ9	-0.78978
9007	P0C206	P01613	-0.9894
9008	P0C206	Q8NGI6	-1.1763
9009	P0C206	Q15126	-0.58486
9010	P0C206	Q9H6B9	-0.72038
9011	P0C206	O76081	-0.25336
9012	P0C206	Q9P0W0	-0.46384
9013	P0C206	Q8TE56	-1.173
9014	P0C206	Q8IWA4	-0.89051
9015	P0C206	P13612	-0.40446
9016	P0C206	Q9Y6U3	-0.13989
9017	P0C206	Q03395	-1.1668
9018	P0C206	P51511	-0.72646
9019	P0C206	Q11130	-0.60756
9020	P0C206	Q8N5C1	-0.79503
9021	P0C206	Q68D86	-0.16932
9022	P0C206	Q9UHD2	-0.22741
9023	P0C206	Q9NTU7	-0.71912
9024	P0C206	Q9HB20	-0.3329
9025	P0C206	P42684	-0.47868
9026	P0C206	Q86Y39	-0.45779
9027	P0C206	P51828	-0.94445
9028	P0C206	Q9UQQ1	-1.2702
9029	P0C206	Q8ND82	-0.22711
9030	P0C206	P11908	-0.6457
9031	P0C206	Q96MV1	-0.57403
9032	P0C206	Q6UW63	-0.19002
9033	P0C206	Q9ULI1	-0.22741
9034	P0C206	Q9Y5F6	-1.1512
9035	P0C206	P22455	-0.8031
9036	P0C206	A0PJX8	-0.79503
9037	P0C206	Q8TAA1	-0.72676
9038	P0C206	O95139	-0.15904
9039	P0C206	P49643	-0.21337
9040	P0C206	Q9NP59	-0.30683
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9044	P0C206	Q0VD83	-0.58694

9045	P0C206	Q12979	-0.77367
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9047	P0C206	Q86YT5	-0.70684
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9049	P0C206	Q9Y215	-0.26192
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9052	P0C206	Q4KWH8	-0.23114
9053	P0C206	Q9ULT0	-0.22596
9054	P0C206	Q86SR1	-0.58821
9055	P0C206	O75879	-0.45761
9056	P0C206	P18085	-0.23457
9057	P0C206	Q96GE6	-0.29182
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9061	P0C206	Q70E73	-0.62603
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9064	P0C206	P59539	-1.1287
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9066	P0C206	Q6Q0C1	-0.58473
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9068	P0C206	Q96IR7	-0.53366
9069	P0C206	Q96EP9	-0.84727
9070	P0C206	Q86YW7	-0.78978
9071	P0C206	O14976	-0.63728
9072	P0C206	Q92914	-0.37116
9073	P0C206	Q16690	-0.38834
9074	P0C206	Q9H254	-0.22857
9075	P0C206	P48051	-0.30062
9076	P0C206	P35452	-0.22754
9077	P0C206	P23560	-0.45998
9078	P0C206	Q7L513	-0.67319
9079	P0C206	Q68DQ2	-0.2154
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9081	P0C206	Q6ZSG1	-0.24165
9082	P0C206	Q9NUM3	-0.8019
9083	P0C206	Q86VI3	-0.56261
9084	P0C206	Q8N4A0	-0.43731
9085	P0C206	Q86YN1	-0.76538
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9087	P0C206	P52756	-0.22576
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9099	P0C206	Q13370	-0.23376
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9104	P0C206	Q14714	-0.94272
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9115	P0C206	Q5T7P8	-0.53467
9116	P0C206	Q8IYQ7	-0.1726
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9126	POC206	O75023	-0.85407
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9129	POC206	Q6S545	-0.2274
9130	POC206	Q6PKC3	-0.91748
9131	POC206	Q16581	-0.98829
9132	POC206	P56202	-0.70637
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9135	POC206	Q7L576	-0.11532
9136	POC206	O43895	-0.75286
9137	POC206	P63124	-0.56257
9138	POC206	O95461	-0.57727
9139	POC206	Q9Y261	-0.38181
9140	POC206	O60266	-0.54401
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9148	POC206	P10275	-0.22743
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9153	POC206	Q14627	-0.24161
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9156	POC206	Q14314	-1.1069
9157	POC206	Q02750	-0.22763
9158	POC206	Q8NET5	-1.0558
9159	POC206	P09668	-0.27127
9160	POC206	Q9P1V8	-0.21426
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9163	POC206	Q9NZC2	-1.2884
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9169	POC206	P25686	-0.25279
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9172	POC206	Q16676	-0.45919
9173	POC206	Q6ZSR9	-0.25141
9174	POC206	Q495A1	-0.35821
9175	POC206	P54803	-0.20221
9176	POC206	Q8WVZ7	-0.9095
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9188	POC206	O95968	-0.88207
9189	POC206	Q8NH92	-1.1763
9190	POC206	Q5HYL7	-0.79503
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9204	P0C206	P02748	-1.0951
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9247	P0C206	P42261	-0.52955
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9249	P0C206	Q43187	-0.22738
9250	P0C206	Q2M3T9	-0.69795
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9270	P0C206	Q96C24	-0.23418
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9272	P0C206	Q13683	-0.62098

9273	P0C206	O75317	-0.46376
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9283	P0C206	Q8NHY0	-0.56168
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9285	P0C206	Q8TAE7	-0.35663
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9287	P0C206	P47893	-1.2662
9288	P0C206	P18433	-1.2025
9289	P0C206	Q9H1V8	-0.70594
9290	P0C206	Q03167	-0.29968
9291	P0C206	Q8NGZ9	-1.1763
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9293	P0C206	P26022	-0.80448
9294	P0C206	Q8N109	-0.91833
9295	P0C206	Q8WVC6	-0.54066
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9304	P0C206	Q14376	-0.34217
9305	P0C206	Q86XR2	-0.32146
9306	P0C206	Q9UBA6	-0.16651
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9308	P0C206	Q96KK4	-1.1763
9309	P0C206	Q8N2H3	-0.51459
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9313	P0C206	Q4G0P3	-0.073434
9314	P0C206	Q71RH2	-0.7666
9315	P0C206	Q9BYH1	-0.89601
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9318	P0C206	Q14254	-0.60464
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9321	P0C206	Q96R47	-1.1763
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9324	P0C206	Q9BQR3	-1.3203
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9333	P0C206	O15381	-0.261
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9336	P0C206	P10915	-1.0791
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9374	POC206	Q3KR16	-0.22815
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9390	POC206	Q86V21	-0.48461
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9393	POC206	Q9C0K3	-0.704
9394	POC206	O95256	-1.2389
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9407	POC206	O43246	-0.71237
9408	POC206	Q9UBY8	-0.35271
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9412	POC206	O94972	-0.2274
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9414	POC206	Q8IWF9	-0.23907
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9418	POC206	Q13507	-0.4236
9419	POC206	O15357	-0.22741
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9433	POC206	P01189	-0.55857
9434	POC206	Q12952	-0.38829
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9443	POC206	Q8NGC1	-1.1763
9444	POC206	Q9P202	-0.22585
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9453	POC206	P10266	-0.15884
9454	POC206	Q562E7	-0.25531
9455	POC206	Q9BXX0	-0.50666
9456	POC206	Q96DN0	-0.16217
9457	POC206	Q8IYB8	-0.22606
9458	POC206	P0C0L4	-1.0929
9459	POC206	P11836	-0.8738
9460	POC206	Q68CP4	-0.71676
9461	POC206	Q9UBJ2	-0.46234
9462	POC206	Q9BX97	-0.55164
9463	POC206	Q4ZIN3	-0.5481
9464	POC206	P07332	-0.65464
9465	POC206	C9J1S8	-0.44814
9466	POC206	Q8IZ81	-0.59193
9467	POC206	Q99952	-0.27528
9468	POC206	Q8N7S2	-0.43641
9469	POC206	Q9P2Q2	-0.2815
9470	POC206	Q8IU85	-0.60611
9471	POC206	O95741	-0.43332
9472	POC206	P51800	-0.87057
9473	POC206	Q9HCC6	-0.21773
9474	POC206	Q53H47	-0.21919
9475	POC206	Q86XP0	-0.22828
9476	POC206	Q96MZ0	-0.22238
9477	POC206	O15482	-0.674
9478	POC206	P63130	-0.15319
9479	POC206	Q15393	-0.14369
9480	POC206	Q96M69	-0.87939
9481	POC206	P55160	-0.2741
9482	POC206	Q9UPY3	-0.21335
9483	POC206	Q01196	-0.42257
9484	POC206	P62820	-0.55688
9485	POC206	Q14916	-0.97413
9486	POC206	Q9Y6Q6	-0.2266
9487	POC206	O43657	-0.99385
9488	POC206	Q76LX8	-0.45571
9489	POC206	Q5M775	-0.22764
9490	POC206	Q4G0J3	-0.22279
9491	POC206	Q6URK8	-0.80952
9492	POC206	Q75V66	-0.84743
9493	POC206	P03891	-0.59856
9494	POC206	P12018	-0.84138
9495	POC206	Q9HCQ7	-1.0279
9496	POC206	Q03169	-0.5871
9497	POC206	O60449	-1.1162
9498	POC206	O75037	-0.39587
9499	POC206	Q14703	-0.8575
9500	POC206	Q8NGP6	-1.1763

9501	P0C206	Q08380	-1.2956
9502	P0C206	Q96BH1	-0.20516
9503	P0C206	Q8N6G5	-0.36607
9504	P0C206	P52789	-0.35427
9505	P0C206	P50120	-0.19523
9506	P0C206	Q9BZG2	-0.71781
9507	P0C206	Q96A61	-0.44814
9508	P0C206	A5D8W1	-0.007049
9509	P0C206	O75880	-0.095461
9510	P0C206	Q8TD07	-0.38851
9511	P0C206	Q8NH48	-1.1763
9512	P0C206	P21741	-0.79038
9513	P0C206	Q14956	-1.0056
9514	P0C206	Q5T2R2	-0.22486
9515	P0C206	Q9H3Z4	-0.44702
9516	P0C206	O94759	-0.87028
9517	P0C206	Q6BEB4	-0.2201
9518	P0C206	Q13564	-0.22961
9519	P0C206	O14493	-0.76614
9520	P0C206	A4D0T7	-0.79503
9521	P0C206	Q99719	-0.22568
9522	P0C206	P0C6A0	-0.2274
9523	P0C206	Q9H159	-1.103
9524	P0C206	P34972	-1.2074
9525	P0C206	P47870	-0.61115
9526	P0C206	Q92747	-0.22739
9527	P0C206	Q16610	-0.45684
9528	P0C206	Q9Y6C9	-0.57194
9529	P0C206	O75556	-0.18061
9530	P0C206	Q8TB22	-1.1959
9531	P0C206	Q15032	-0.24184
9532	P0C206	Q9NP70	-1.0193
9533	P0C206	P32970	-0.59585
9534	P0C206	Q5UAW9	-1.2886
9535	P0C206	Q9Y4X3	-0.90497
9536	P0C206	Q14627	-1.073
9537	P0C206	Q08116	-0.60885
9538	P0C206	P09936	-0.14601
9539	P0C206	O94779	-0.43542
9540	P0C206	P42081	-0.22666
9541	P0C206	Q9Y664	-0.1085
9542	P0C206	Q6UW15	-0.84582
9543	P0C206	Q86XP3	-0.56936
9544	P0C206	Q8N3A8	-0.54835
9545	P0C206	Q12864	-0.89527
9546	P0C206	Q9BZM1	-0.63355
9547	P0C206	Q14032	-0.24477
9548	P0C206	Q9UBD6	-0.68907
9549	P0C206	P04201	-0.79144
9550	P0C206	Q95025	-1.0754
9551	P0C206	Q9BXC1	-1.1939
9552	P0C206	Q9NUN5	-0.6843
9553	P0C206	Q6PIF6	-0.6637
9554	P0C206	P02775	-0.62171
9555	P0C206	P60827	-0.87668
9556	P0C206	A6NDL7	-0.20034
9557	P0C206	Q43307	-0.50417
9558	P0C206	Q5BJH2	-0.57403
9559	P0C206	P35368	-0.75276
9560	P0C206	Q13336	-0.8737
9561	P0C206	O15119	-0.51326
9562	P0C206	Q5K4L6	-1.2698
9563	P0C206	Q9BZC1	-0.31669
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9565	P0C206	Q15800	-1.0088
9566	P0C206	Q9UPU7	-0.84307
9567	P0C206	Q12899	-0.30196
9568	P0C206	O43915	-0.69959
9569	P0C206	Q7L1S5	-0.83181
9570	P0C206	O94778	-0.84047
9571	P0C206	P41225	-0.26215
9572	P0C206	P59922	-1.1763
9573	P0C206	Q9NZJ9	-0.16368
9574	P0C206	Q9BYW2	-0.22497
9575	P0C206	B3SHH9	-0.91833
9576	P0C206	Q9UKL4	-0.95555

9577	P0C206	Q86W42	-0.22784
9578	P0C206	Q96H35	-0.83583
9579	P0C206	P30953	-1.1763
9580	P0C206	Q94898	-0.66736
9581	P0C206	Q9UKR0	-1.3626
9582	P0C206	P58401	-0.98895
9583	P0C206	Q14563	-0.69099
9584	P0C206	Q5VTE0	-0.49768
9585	P0C206	P43088	-1.4254
9586	P0C206	Q96IX5	-0.62621
9587	P0C206	P02654	-0.53101
9588	P0C206	Q9UI33	-0.95081
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9590	P0C206	Q96S96	-0.32973
9591	P0C206	Q96IV6	-1.024
9592	P0C206	Q9H2E6	-0.43791
9593	P0C206	P58335	-0.92087
9594	P0C206	A6NFN9	-0.22737
9595	P0C206	Q92911	-0.64593
9596	P0C206	Q9NPH2	-0.50977
9597	P0C206	P11509	-0.65015
9598	P0C206	Q8NG04	-0.69566
9599	P0C206	P09211	-0.21832
9600	P0C206	P51570	-0.43493
9601	P0C206	A2RRL7	-0.79503
9602	P0C206	Q96HL8	-0.2274
9603	P0C206	Q8NHS2	-0.1894
9604	P0C206	Q86W26	-0.72239
9605	P0C206	Q15784	-0.22775
9606	P0C206	Q8NFI6	-1.2361
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9613	P0C206	Q15477	-0.2495
9614	P0C206	A6NMP4	-0.2536
9615	P0C206	Q96T83	-0.35386
9616	P0C206	Q03181	-0.239
9617	P0C206	Q13753	-1.1907
9618	P0C206	O60320	-0.79503
9619	P0C206	Q8NGP9	-1.1763
9620	P0C206	Q9HAV5	-0.5377
9621	P0C206	Q9NQI8	-0.25382
9622	P0C206	Q14574	-1.0888
9623	P0C206	O60609	-0.32408
9624	P0C206	Q9HC96	-0.63535
9625	P0C206	Q9ULK0	-0.75282
9626	P0C206	Q9BXA6	-0.873
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9628	P0C206	Q15466	-0.4705
9629	P0C206	Q5T764	-0.45573
9630	P0C206	O75438	-0.41281
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9633	P0C206	Q12931	-0.46091
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9635	P0C206	Q5VTY9	-1.587
9636	P0C206	Q8WZ69	-0.071916
9637	P0C206	Q8NE63	-0.96142
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9640	P0C206	Q9UHI8	-1.1165
9641	P0C206	Q96KV7	-0.22772
9642	P0C206	Q8TDN7	-0.63509
9643	P0C206	Q9BXU9	-0.53765
9644	P0C206	Q9BVK8	-0.89601
9645	P0C206	Q12887	-0.51515
9646	P0C206	Q68DC2	-0.22746
9647	P0C206	Q9Y6I7	-0.2289
9648	P0C206	P18827	-0.46909
9649	P0C206	P16190	-1.0001
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9654	P0C206	Q96D71	-0.20919
9655	P0C206	Q6NUS8	-0.83789
9656	P0C206	Q6PCB6	-0.17505
9657	P0C206	Q149N8	-0.39524
9658	P0C206	Q8N7Z5	-0.22741
9659	P0C206	Q9Y2E6	-0.21737
9660	P0C206	Q96A70	-0.21712
9661	P0C206	Q3SXP7	-0.79503
9662	P0C206	P19235	-1.1185
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9664	P0C206	P20393	-0.62198
9665	P0C206	P35612	-0.22168
9666	P0C206	A6NED2	-0.22205
9667	P0C206	Q99679	-1.3861
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9669	P0C206	Q9ULZ9	-1.4281
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9673	P0C206	P31321	-0.27138
9674	P0C206	Q6UW68	-0.79503
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9676	P0C206	O43283	-0.43098
9677	P0C206	Q7L0X0	-0.71151
9678	P0C206	O95803	-0.6722
9679	P0C206	Q96EB6	-0.67221
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9682	P0C206	P50851	-0.55626
9683	P0C206	P14543	-1.0217
9684	P0C206	P17707	-0.16425
9685	P0C206	Q8NGR1	-1.1763
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9688	P0C206	O43315	-0.56364
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9691	P0C206	Q15223	-0.4656
9692	P0C206	Q9NYA1	-0.29723
9693	P0C206	P13866	-0.13804
9694	P0C206	Q5JT82	-0.22106
9695	P0C206	Q9NSC7	-0.61606
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9697	P0C206	Q96AW1	-0.50602
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9704	P0C206	Q9NST1	-0.69323
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9706	P0C206	Q16671	-1.3969
9707	P0C206	Q9HC10	-0.65401
9708	P0C206	O43609	-0.19581
9709	P0C206	Q09428	-0.63192
9710	P0C206	P04049	-0.25586
9711	P0C206	Q6P179	-1.0377
9712	P0C206	Q15884	-0.57403
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9715	P0C206	Q12951	-0.37245
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9721	P0C206	Q8IZQ5	-0.23576
9722	P0C206	Q86XP6	-0.80952
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9725	P0C206	Q9Y2C2	-0.44947
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9733	P0C206	Q13488	-0.66162
9734	P0C206	Q9H237	-0.77706
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9736	P0C206	O95222	-1.1763
9737	P0C206	Q9H3U7	-1.1746
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9739	P0C206	O60762	-0.17676
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9748	P0C206	P03372	-0.22748
9749	P0C206	P26885	-0.23004
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9751	P0C206	Q9Y2U5	-0.54228
9752	P0C206	Q9NPI0	-0.79948
9753	P0C206	Q96IC2	-0.8831
9754	P0C206	Q8TBB0	-0.34142
9755	P0C206	Q96A84	-0.75961
9756	P0C206	P10070	-0.22717
9757	P0C206	Q8IV31	-0.79503
9758	P0C206	O75110	-0.86424
9759	P0C206	Q8IZ83	-0.62263
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9762	P0C206	P22891	-1.0157
9763	P0C206	P16442	-0.91529
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9767	P0C206	Q86SF2	-0.49388
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9772	P0C206	O14495	-0.28248
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9853	P0C206	P40879	-0.51808
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9861	P0C206	Q13203	-0.57362
9862	P0C206	Q96LC7	-1.5979
9863	P0C206	Q8NDX5	-0.24032
9864	P0C206	P06870	-0.50077
9865	P0C206	Q8N6F1	-0.19561
9866	P0C206	Q8IWL2	-1.0276
9867	P0C206	Q71RC2	-0.69956
9868	P0C206	P47712	-0.2278
9869	P0C206	P54707	-0.88036
9870	P0C206	A6NNH2	-0.19106
9871	P0C206	Q5TC82	-0.2274
9872	P0C206	Q8NGR3	-1.1763
9873	P0C206	Q09327	-0.59201
9874	P0C206	P13631	-0.23154
9875	P0C206	Q92989	-0.1775
9876	P0C206	Q13572	-0.93177
9877	P0C206	Q9C0B7	-0.79503
9878	P0C206	P53367	-0.14447
9879	P0C206	P29274	-0.33272
9880	P0C206	Q9C0C9	-0.79328

9881	P0C206	P00439	-0.44746
9882	P0C206	Q8NGE5	-1.1763
9883	P0C206	Q96DC8	-0.28102
9884	P0C206	P60507	-0.77946
9885	P0C206	P51811	-0.15355
9886	P0C206	Q6P461	-1.0453
9887	P0C206	O00391	-1.1945
9888	P0C206	O75386	-0.17686
9889	P0C206	Q96AG4	-0.81853
9890	P0C206	Q6UW32	-0.27184
9891	P0C206	Q4G0G5	-0.80952
9892	P0C206	A8MUK1	-0.35782
9893	P0C206	Q13401	-0.087229
9894	P0C206	Q9NUY8	-0.88845
9895	P0C206	Q9P0K7	-0.2275
9896	P0C206	P19105	-0.22629
9897	P0C206	P05155	-0.39877
9898	P0C206	Q92536	-0.94907
9899	P0C206	Q86SX6	-0.21249
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9901	P0C206	Q15204	-1.0335
9902	P0C206	Q7Z5A7	-1.3538
9903	P0C206	Q8IWU6	-0.31748
9904	P0C206	O75949	-0.79503
9905	P0C206	Q6P3W2	-0.31401
9906	P0C206	O94856	-0.93462
9907	P0C206	O00634	-0.58006
9908	P0C206	A8MVX0	-0.57432
9909	P0C206	Q8IVV2	-0.42305
9910	P0C206	P46059	-0.77819
9911	P0C206	O60906	-0.67729
9912	P0C206	Q8IXZ3	-0.18671
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9914	P0C206	Q12846	-0.23759
9915	P0C206	P42857	-0.17886
9916	P0C206	Q7Z4N8	-0.54338
9917	P0C206	Q9H4G1	-0.87562
9918	P0C206	O43825	-0.70104
9919	P0C206	Q9NTZ6	-0.33857
9920	P0C206	Q9BSL1	-0.22357
9921	P0C206	Q9Y5I2	-1.6698
9922	P0C206	P14410	-0.49677
9923	P0C206	Q9H853	-0.38713
9924	P0C206	A2RUC4	-0.51118
9925	P0C206	P0C7L1	-0.75923
9926	P0C206	Q96P67	-1.2448
9927	P0C206	P02656	-0.57362
9928	P0C206	Q8NGA5	-1.0483
9929	P0C206	Q9H7F0	-1.0002
9930	P0C206	Q9BXX2	-0.62497
9931	P0C206	P51686	-1.2691
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9933	P0C206	Q99593	-0.44316
9934	P0C206	P02786	-0.69196
9935	P0C206	Q9Y2R0	-0.63887
9936	P0C206	P46094	-1.252
9937	P0C206	Q6UW60	-1.0641
9938	P0C206	Q9H0Q0	-0.49741
9939	P0C206	O95206	-1.1209
9940	P0C206	P04066	-0.17015
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9943	P0C206	P08294	-0.21425
9944	P0C206	Q3B7J2	-1.5669
9945	P0C206	Q9P104	-0.23873
9946	P0C206	Q9NYV9	-1.0414
9947	P0C206	Q6FIF0	-0.53481
9948	P0C206	Q7L7V1	-0.22021
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9950	P0C206	A6NFU8	-0.66766
9951	P0C206	Q8IU99	-1.0213
9952	P0C206	Q9UKF2	-1.0482
9953	P0C206	P22607	-0.35098
9954	P0C206	Q86YV5	-1.1198
9955	P0C206	P51170	-0.53674
9956	P0C206	Q9BUB4	-0.23072



9957	P0C206	D6RCP7	-0.59814
9958	P0C206	Q2I0M4	-0.22895
9959	P0C206	Q9Y5K2	-1.2878
9960	P0C206	Q96GQ5	-0.79503
9961	P0C206	Q8NGQ6	-1.1763
9962	P0C206	Q96DZ5	-0.62162
9963	P0C206	Q2TAA2	-0.27494
9964	P0C206	Q86WN1	-0.2274
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9966	P0C206	Q9Y2H1	-0.22736
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9970	P0C206	Q8NH10	-1.1763
9971	P0C206	Q9UKF5	-1.0943
9972	P0C206	Q9H628	-1.2249
9973	P0C206	P58513	-0.53163
9974	P0C206	Q8NHW4	-1.0065
9975	P0C206	A6NJ16	-0.80952
9976	P0C206	Q9UNN8	-0.22807
9977	P0C206	Q9HBW0	-0.86183
9978	P0C206	Q13206	-0.71942
9979	P0C206	Q2M2H8	-0.70373
9980	P0C206	Q43827	-1.0955
9981	P0C206	P38570	-1.0363
9982	P0C206	Q86WA6	-0.17493
9983	P0C206	Q16769	-1.0489
9984	P0C206	A6NFY4	-0.79503
9985	P0C206	P09493	-0.22299
9986	P0C206	Q86TZ1	-0.22739
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9988	P0C206	Q9NS61	-0.39896
9989	P0C206	Q5TF58	-0.12831
9990	P0C206	Q96MW5	-0.20366
9991	P0C206	Q95185	-1.0055
9992	P0C206	Q9NUQ7	-0.14119
9993	P0C206	P43694	-0.22738
9994	P0C206	P52926	-0.030017
9995	P0C206	Q86UD7	-1.2801
9996	P0C206	Q8NFF2	-0.93731
9997	P0C206	Q6PJG9	-0.79503
9998	P0C206	Q96FL9	-0.49446
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10004	P0C206	Q6ZUJ8	-0.09418
10005	P0C206	P30459	-0.92002
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10008	P0C206	P01859	-0.9687
10009	P0C206	P48426	-0.22748
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10014	P0C206	P55042	-0.62523
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10020	P0C206	Q8N687	-0.77981
10021	P0C206	Q86X52	-0.76566
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10023	P0C206	Q13445	-0.193
10024	P0C206	Q5T2Q4	-0.22804
10025	P0C206	P49221	-0.23077
10026	P0C206	Q86VD9	-0.8308
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10028	P0C206	Q13444	-0.56436
10029	P0C206	Q8NGC8	-1.1763
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10031	P0C206	Q6ZUT9	-0.77845
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10041	P0C206	P05023	-0.36702
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10061	P0C206	O60658	-0.2267
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10063	P0C206	Q92879	-0.24713
10064	P0C206	Q99714	-0.20545
10065	P0C206	Q6UX40	-0.69874
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10079	P0C206	P78562	-0.94596
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10081	P0C206	Q8NG76	-1.1763
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10101	P0C206	Q9P272	-0.30069
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10103	P0C206	Q86UU9	-0.8429
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10113	P0C206	Q96RJ3	-0.6763
10114	P0C206	O43149	-0.24262
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10119	P0C206	Q8WXX3	-0.22738
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10124	P0C206	Q14183	-0.25067
10125	P0C206	P19784	-0.24617
10126	P0C206	Q8TF76	-0.5052
10127	P0C206	Q9Y6J6	-1.008
10128	P0C206	Q9H7F4	-0.79503
10129	P0C206	Q32P44	-0.2277
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10139	P0C206	Q9NP95	-0.80867
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10141	P0C206	Q9NY72	-0.57026
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10143	P0C206	P78556	-1.0464
10144	P0C206	Q96NE9	-0.23585
10145	P0C206	Q92995	-0.23317
10146	P0C206	Q13496	-0.36233
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10155	P0C206	Q13740	-1.2017
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10157	P0C206	Q16816	-0.61686
10158	P0C206	Q9Y450	-0.79402
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10166	P0C206	P78536	-0.27189
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10171	P0C206	Q9Y259	-0.62676
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10173	P0C206	Q8WWG9	-0.88688
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10175	P0C206	P17081	-0.87678
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10177	P0C206	Q9BRR9	-1.083
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10184	P0C206	Q86Y22	-1.3667

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10196	P0C206	Q9P265	-0.22494
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10204	P0C206	Q9H560	-0.2274
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10215	P0C206	Q9H190	-0.22729
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10218	P0C206	Q9H892	-0.22296
10219	P0C206	Q75T13	-0.4124
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10226	P0C206	Q96BY6	-0.50302
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10233	P0C206	P20813	-0.68317
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10235	P0C206	Q9H2S9	-0.34806
10236	P0C206	Q9BX93	-0.86435
10237	P0C206	Q75506	-0.099232
10238	P0C206	Q8N127	-1.1763
10239	P0C206	Q8TCD6	-0.41497
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10242	P0C206	Q96L42	-0.87666
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10244	P0C206	P14210	-0.31964
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10249	P0C206	Q76EJ3	-0.35804
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10251	P0C206	Q5T8D3	-0.85121
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10262	P0C206	Q9Y5S2	-0.69861
10263	P0C206	Q96FJ0	-0.46599
10264	P0C206	A4IF30	-0.72669
10265	P0C206	Q9Y5G1	-1.1512
10266	P0C206	Q8WVN6	-1.4204
10267	P0C206	Q9NWZ3	-0.22729
10268	P0C206	P08519	-1.074
10269	P0C206	P30520	-0.61799
10270	P0C206	Q9BSE2	-0.79503
10271	P0C206	Q9HAT2	-0.8274
10272	P0C206	Q9Y230	-0.22755
10273	P0C206	P29762	-0.51639
10274	P0C206	O95167	-0.42766
10275	P0C206	O95715	-0.87824
10276	P0C206	Q2NKX8	-0.19259
10277	P0C206	Q5JPE7	-0.2875
10278	P0C206	Q9HC97	-1.3861
10279	P0C206	Q5BLP8	-0.80952
10280	P0C206	Q13972	-0.56462
10281	P0C206	Q6GPI1	-1.3413
10282	P0C206	Q7Z434	-0.21171
10283	P0C206	Q9BS26	-0.24372
10284	P0C206	O60656	-0.69223
10285	P0C206	Q9UHE8	-1.0722
10286	P0C206	Q9BRG2	-0.69572
10287	P0C206	Q8TCD1	-0.44667
10288	P0C206	Q75762	-0.81119
10289	P0C206	Q96PX1	-0.22738
10290	P0C206	P53602	-0.55412
10291	P0C206	A8MX76	-0.99507
10292	P0C206	P0C7A2	-0.46853
10293	P0C206	Q5T7P6	-0.79503
10294	P0C206	P10398	-0.34709
10295	P0C206	Q95897	-0.80952
10296	P0C206	Q8WVQ1	-0.81365
10297	P0C206	Q9NZP8	-1.363
10298	P0C206	B5MD39	-0.2062
10299	P0C206	P49795	-0.22764
10300	P0C206	A1L4H1	-0.88984
10301	P0C206	P01568	-0.75974
10302	P0C206	Q9H2C8	-1.1763
10303	P0C206	Q9HCE9	-0.97984
10304	P0C206	Q8NGA1	-1.1763
10305	P0C206	P10916	-0.22564
10306	P0C206	O60721	-0.58204
10307	P0C206	Q01718	-0.85483
10308	P0C206	Q86W28	-0.51103
10309	P0C206	Q96A32	-0.34205
10310	P0C206	P11279	-0.89543
10311	P0C206	Q31612	-0.99995
10312	P0C206	Q14562	-0.20542
10313	P0C206	O00592	-0.93986
10314	P0C206	P50052	-0.76061
10315	P0C206	Q8IUZ5	-0.41404
10316	P0C206	Q8NGS2	-1.1763
10317	P0C206	Q6KC79	-0.14929
10318	P0C206	A5X5Y0	-0.87891
10319	P0C206	A6NCQ9	-0.73705
10320	P0C206	Q96NZ9	-0.80952
10321	P0C206	Q6NUK4	-0.79503
10322	P0C206	Q96A59	-0.62697
10323	P0C206	Q9Y4E5	-0.22511
10324	P0C206	Q8TF44	-0.19993
10325	P0C206	P0C7V4	-0.19106
10326	P0C206	Q8NFQ6	-1.0321
10327	P0C206	P57105	-0.58411
10328	P0C206	P30203	-1.0746
10329	P0C206	Q9BVW6	-0.79503
10330	P0C206	Q86T26	-1.8172
10331	P0C206	P0C1H6	-0.44535
10332	P0C206	Q8TDV2	-1.2448
10333	P0C206	O15544	-0.26218
10334	P0C206	P45452	-0.8468
10335	P0C206	Q9H112	-0.24897
10336	P0C206	Q8WW62	-0.82098

10337	P0C206	Q01973	-0.88614
10338	P0C206	Q96K49	-0.79503
10339	P0C206	Q13492	-0.20405
10340	P0C206	A8MWC7	-0.045906
10341	P0C206	Q8WYN0	-0.22831
10342	P0C206	Q02223	-1.2383
10343	P0C206	Q9BPV8	-1.1174
10344	P0C206	O95757	-0.22449
10345	P0C206	O14773	-0.35875
10346	P0C206	Q6GYQ0	-0.19546
10347	P0C206	P12838	-0.84243
10348	P0C206	Q7Z4N2	-1.1263
10349	P0C206	Q9NR99	-0.80952
10350	P0C206	Q10589	-0.35224
10351	P0C206	Q3MIR4	-0.14494
10352	P0C206	Q92753	-0.63946
10353	P0C206	P10451	-0.71638
10354	P0C206	Q7RTU9	-0.39299
10355	P0C206	Q9H1C4	-0.6623
10356	P0C206	Q13191	-0.22741
10357	P0C206	Q95237	-0.62207
10358	P0C206	Q5PT55	-0.84727
10359	P0C206	Q6ZVK1	-0.79503
10360	P0C206	Q9Y5M8	-1.2263
10361	P0C206	Q96LW4	-0.24979
10362	P0C206	Q14774	-0.22878
10363	P0C206	Q9NZH6	-0.20703
10364	P0C206	P53004	-0.46662
10365	P0C206	Q9P2N2	-0.51452
10366	P0C206	P0DJD9	-1.1195
10367	P0C206	P01701	-0.9894
10368	P0C206	Q9Y5W9	-0.4235
10369	P0C206	P57737	-0.25053
10370	P0C206	P04085	-0.30706
10371	P0C206	Q9BYX2	-0.52779
10372	P0C206	O43157	-0.88814
10373	P0C206	Q6UWP8	-0.80952
10374	P0C206	A6NCD1	-0.44814
10375	P0C206	O00571	-0.57057
10376	P0C206	Q15319	-0.22741
10377	P0C206	P56557	-0.7533
10378	P0C206	Q96LT9	-0.49537
10379	P0C206	Q9UKN1	-0.86872
10380	P0C206	Q96PE1	-1.1355
10381	P0C206	P52739	-0.54186
10382	P0C206	P30837	-0.45554
10383	P0C206	P51665	-0.21863
10384	P0C206	Q6UXL0	-0.63662
10385	P0C206	O00481	-0.2301
10386	P0C206	Q58WW2	-0.22739
10387	P0C206	Q9H5U6	-0.16894
10388	P0C206	Q9Y272	-0.7415
10389	P0C206	Q00013	-0.37047
10390	P0C206	Q8WUK0	-0.60703
10391	P0C206	Q9NQ66	-0.22651
10392	P0C206	O94979	-0.47057
10393	P0C206	Q8N9H8	-0.58466
10394	P0C206	Q96L34	-0.31844
10395	P0C206	Q8WYQ4	-0.16522
10396	P0C206	O95864	-0.90705
10397	P0C206	Q8NHC7	-1.1763
10398	P0C206	Q9H329	-0.2555
10399	P0C206	Q9BQ39	-0.42402
10400	P0C206	P59020	-0.27258
10401	P0C206	P36888	-0.50814
10402	P0C206	Q008S8	-0.57432
10403	P0C206	P30626	-0.22839
10404	P0C206	P30086	-0.37556
10405	P0C206	Q9P241	-0.60199
10406	P0C206	Q9Y6L6	-0.83014
10407	P0C206	Q9BYV1	-0.14698
10408	P0C206	A1L167	-0.79328
10409	P0C206	Q8N126	-0.90631
10410	P0C206	Q8TAC2	-0.63292
10411	P0C206	P84095	-0.35309
10412	P0C206	Q8NFI5	-1.137

10413	P0C206	Q9Y3Q4	-1.073
10414	P0C206	Q01628	-0.77968
10415	P0C206	Q9H2W2	-0.21504
10416	P0C206	Q8IZT8	-0.20186
10417	P0C206	Q8WXD9	-0.2274
10418	P0C206	P36894	-0.36537
10419	P0C206	P04745	-0.23799
10420	P0C206	Q9P244	-0.68369
10421	P0C206	Q9UNE0	-0.6159
10422	P0C206	P58753	-0.21856
10423	P0C206	Q6NVV3	-0.81143
10424	P0C206	Q9Y5Z0	-0.76928
10425	P0C206	Q8IWF2	-0.20399
10426	P0C206	Q9Y4K4	-0.5019
10427	P0C206	Q9P2B2	-0.22741
10428	P0C206	Q6UXQ8	-0.80952
10429	P0C206	Q9NQX3	-0.59078
10430	P0C206	A1YPR0	-0.46721
10431	P0C206	P35240	-0.23569
10432	P0C206	Q9Y620	-0.1854
10433	P0C206	Q92817	-0.20574
10434	P0C206	Q9Y2R4	-0.35913
10435	P0C206	P0CG39	-0.20222
10436	P0C206	Q8NFM7	-0.43817
10437	P0C206	A6NNE9	-0.78316
10438	P0C206	O75264	-0.79503
10439	P0C206	O75197	-0.22747
10440	P0C206	Q5SZJ8	-0.013439
10441	P0C206	Q8N5T2	-1.2801
10442	P0C206	Q8WUA8	-0.80952
10443	P0C206	O94769	-0.84832
10444	P0C206	Q9UNK4	-0.81875
10445	P0C206	Q9C0H5	-0.26845
10446	P0C206	P53420	-0.89373
10447	P0C206	Q9H4L5	-0.61141
10448	P0C206	P54753	-0.96617
10449	P0C206	Q9UKU0	-0.95301
10450	P0C206	P19174	-0.22741
10451	P0C206	Q7Z444	-1.3067
10452	P0C206	P41594	-0.69699
10453	P0C206	Q9NR90	-0.70995
10454	P0C206	Q8NG11	-0.79503
10455	P0C206	Q96PL5	-0.66351
10456	P0C206	O43414	-0.54082
10457	P0C206	Q9NR45	-0.074534
10458	P0C206	Q9HC57	-0.61764
10459	P0C206	O15533	-0.43871
10460	P0C206	P08571	-0.50753
10461	P0C206	O60258	-0.91287
10462	P0C206	O15195	-0.18837
10463	P0C206	Q96JQ0	-1.1252
10464	P0C206	P08684	-0.55388
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10468	P0C206	Q9NQT6	-0.19598
10469	P0C206	Q9NRV9	-0.7063
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10471	P0C206	Q49AH0	-0.73813
10472	P0C206	Q9NNX1	-0.76601
10473	P0C206	P56703	-0.47579
10474	P0C206	Q93086	-0.89916
10475	P0C206	Q8NDZ6	-0.79503
10476	P0C206	O14668	-1.5447
10477	P0C206	Q6VB85	-0.45919
10478	P0C206	Q13670	-0.30816
10479	P0C206	Q8WYP3	-0.72379
10480	P0C206	Q9UBG3	-0.29491
10481	P0C206	P28472	-0.90082
10482	P0C206	P01266	-0.58049
10483	P0C206	Q8NH02	-1.1763
10484	P0C206	Q9UQ52	-0.51861
10485	P0C206	Q8N4L1	-0.79503
10486	P0C206	Q9Y2K6	-0.36372
10487	P0C206	O95626	-0.15652
10488	P0C206	P06309	-0.9894

10489	P0C206	P55899	-0.92132
10490	P0C206	Q14247	-0.23378
10491	P0C206	Q86YM7	-0.26025
10492	P0C206	Q96IQ9	-0.22731
10493	P0C206	Q09019	-0.22763
10494	P0C206	P14415	-0.23184
10495	P0C206	Q86SQ4	-1.2769
10496	P0C206	O00329	-0.39132
10497	P0C206	P00451	-0.56243
10498	P0C206	Q9UII4	-0.3497
10499	P0C206	P51888	-0.87862
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10501	P0C206	Q9BXT6	-1.1824
10502	P0C206	Q9UBG0	-0.88222
10503	P0C206	A8MXJ8	-0.19106
10504	P0C206	Q05952	-0.75664
10505	P0C206	Q96A19	-0.20038
10506	P0C206	P0CI25	-0.44814
10507	P0C206	P61371	-0.22812
10508	P0C206	Q8IVL5	-0.51655
10509	P0C206	P55064	-0.43691
10510	P0C206	A2A3L6	-0.22409
10511	P0C206	Q96RA2	-0.90171
10512	P0C206	Q8NG83	-1.1763
10513	P0C206	P54760	-1.137
10514	P0C206	Q04671	-0.15132
10515	P0C206	Q9NRM6	-1.2364
10516	P0C206	Q6T4P5	-0.87344
10517	P0C206	Q96SQ7	-0.22789
10518	P0C206	Q9HBG4	-0.3604
10519	P0C206	Q8NHA8	-1.1763
10520	P0C206	Q9Y673	-0.80913
10521	P0C206	P35670	-0.22754
10522	P0C206	Q96QU1	-1.386
10523	P0C206	Q96BZ9	-1.5374
10524	P0C206	Q16559	-0.22762
10525	P0C206	B2RXH4	-0.22698
10526	P0C206	P47872	-1.3495
10527	P0C206	Q9H0Q3	-0.84165
10528	P0C206	Q8TBE3	-0.79503
10529	P0C206	P43630	-1.0515
10530	P0C206	O95674	-0.5549
10531	P0C206	Q14722	-0.71216
10532	P0C206	Q8NGE7	-1.1763
10533	P0C206	P16519	-0.22443
10534	P0C206	Q96CX6	-0.2312
10535	P0C206	P42785	-0.25749
10536	P0C206	Q8NBH2	-0.28568
10537	P0C206	Q5VXI9	-0.81079
10538	P0C206	Q99928	-0.70054
10539	P0C206	Q16647	-0.22757
10540	P0C206	Q9UGP8	-0.68468
10541	P0C206	P82279	-1.268
10542	P0C206	P58107	-0.15426
10543	P0C206	Q9NNZ3	-0.57792
10544	P0C206	Q8TEZ7	-1.2379
10545	P0C206	Q8IUX8	-1.3596
10546	P0C206	Q9UQ16	-0.23793
10547	P0C206	Q96AE7	-0.22191
10548	P0C206	O60343	-0.94966
10549	P0C206	O14578	-0.69318
10550	P0C206	Q99437	-0.59178
10551	P0C206	Q6ZSZ6	-0.22537
10552	P0C206	Q147X3	-0.062454
10553	P0C206	Q14807	-0.31677
10554	P0C206	Q9C0I9	-0.22815
10555	P0C206	Q13283	-0.23472
10556	P0C206	P23470	-1.181
10557	P0C206	Q7L7X3	-0.52353
10558	P0C206	Q8N158	-0.94471
10559	P0C206	Q9UK85	-1.0072
10560	P0C206	Q96EP5	-0.55677
10561	P0C206	Q9H756	-0.79503
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10563	P0C206	Q5H913	-1.2838
10564	P0C206	Q96PV0	-0.60181



10565	P0C206	P19438	-0.31225
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10567	P0C206	P46019	-0.20158
10568	P0C206	Q8N3P4	-0.21574
10569	P0C206	P35249	-0.21702
10570	P0C206	Q9NQU5	-0.37024
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10572	P0C206	Q8TDC3	-0.56773
10573	P0C206	B9A064	-0.80952
10574	P0C206	Q8N6C8	-1.0347
10575	P0C206	Q5TON1	-0.099617
10576	P0C206	Q8TDS7	-1.2448
10577	P0C206	P30542	-0.37422
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10582	P0C206	Q5VXT5	-0.79184
10583	P0C206	Q9UKN7	-0.43933
10584	P0C206	Q96AJ9	-0.16772
10585	P0C206	Q9Y577	-0.22952
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10588	P0C206	Q6FHH7	-0.35462
10589	P0C206	Q8IV50	-0.20388
10590	P0C206	P60568	-0.42236
10591	P0C206	P59544	-1.1287
10592	P0C206	P0CG05	-0.95593
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10594	P0C206	Q7Z443	-0.74284
10595	P0C206	Q8NBT0	-0.22791
10596	P0C206	Q9UEF7	-1.0044
10597	P0C206	Q9P109	-0.43594
10598	P0C206	Q9UQB9	-0.38259
10599	P0C206	Q9Y231	-0.46426
10600	P0C206	Q15431	-0.025929
10601	P0C206	Q13395	-0.092433
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10603	P0C206	Q13509	-0.46235
10604	P0C206	Q5TGZ0	-0.50962
10605	P0C206	Q9UJA3	-0.20165
10606	P0C206	Q99801	-0.2331
10607	P0C206	Q9NRN5	-1.0206
10608	P0C206	P0C024	-0.36335
10609	P0C206	P01040	-0.17723
10610	P0C206	Q9UN73	-1.6698
10611	P0C206	Q53GS9	-0.23482
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10613	P0C206	O00574	-1.2109
10614	P0C206	Q8IZF6	-1.2769
10615	P0C206	Q96L50	-0.23335
10616	P0C206	Q8N131	-0.8024
10617	P0C206	P04626	-0.22741
10618	P0C206	Q6S5H4	-0.22722
10619	P0C206	P05160	-0.71746
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10621	P0C206	Q8TAX0	-0.19213
10622	P0C206	P55040	-0.47903
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10624	P0C206	P01623	-0.9894
10625	P0C206	Q96M66	-0.10716
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10628	P0C206	O60683	-0.22742
10629	P0C206	P22612	-0.57149
10630	P0C206	Q9NRW3	-0.40339
10631	P0C206	Q92545	-0.57403
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10633	P0C206	Q14332	-0.52179
10634	P0C206	Q8NGF1	-1.1763
10635	P0C206	Q8NGC5	-1.1763
10636	P0C206	P07093	-0.36735
10637	P0C206	Q96LU5	-0.44706
10638	P0C206	P43320	-0.32112
10639	P0C206	Q9NZW4	-1.1125
10640	P0C206	Q99645	-0.85153

10641	P0C206	Q8WVD5	-0.2279
10642	P0C206	Q86VF7	-0.25303
10643	P0C206	Q0VAA2	-0.22741
10644	P0C206	Q00602	-1.1891
10645	P0C206	Q9GZW8	-0.79503
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10654	P0C206	Q96AK3	-0.45815
10655	P0C206	Q6P9H4	-0.22734
10656	P0C206	Q9Y4E8	-0.39055
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10658	P0C206	Q9H1P3	-0.50624
10659	P0C206	Q94910	-0.8026
10660	P0C206	O00220	-0.22738
10661	P0C206	P26006	-0.36579
10662	P0C206	Q99487	-0.17326
10663	P0C206	Q96P88	-1.183
10664	P0C206	Q8WVP7	-0.77736
10665	P0C206	Q9P0J7	-0.53631
10666	P0C206	Q9Y3Z3	-0.1111
10667	P0C206	P18136	-0.9894
10668	P0C206	Q9NQ76	-0.41397
10669	P0C206	O15552	-1.6166
10670	P0C206	Q9UBF8	-0.69345
10671	P0C206	Q86WS5	-1.2466
10672	P0C206	Q8NGS5	-1.1763
10673	P0C206	Q9NQ79	-0.93187
10674	P0C206	Q9Y2K3	-0.36939
10675	P0C206	Q8IYX1	-1.2801
10676	P0C206	Q92765	-0.59404
10677	P0C206	O95926	-0.095052
10678	P0C206	Q9NQ94	-0.27256
10679	P0C206	Q6NXT6	-0.84845
10680	P0C206	Q06889	-0.2043
10681	P0C206	Q6ZT52	-0.039893
10682	P0C206	Q9UIM3	-0.22529
10683	P0C206	P51677	-1.2185
10684	P0C206	Q96RK4	-0.22679
10685	P0C206	P23378	-0.55772
10686	P0C206	Q6UVK1	-1.1199
10687	P0C206	Q9Y6X5	-0.89394
10688	P0C206	O15431	-1.0189
10689	P0C206	Q9BV99	-0.22738
10690	P0C206	Q8NHU3	-0.74768
10691	P0C206	Q9Y5P4	-0.22762
10692	P0C206	P07711	-0.44655
10693	P0C206	Q9UMN6	-0.22587
10694	P0C206	Q9BYX7	-0.69019
10695	P0C206	Q9Y2D4	-0.056096
10696	P0C206	O00155	-1.3861
10697	P0C206	Q8N264	-0.64584
10698	P0C206	P20472	-0.21372
10699	P0C206	P08319	-0.23575
10700	P0C206	Q15836	-0.22023
10701	P0C206	Q9NR80	-0.23975
10702	P0C206	Q43707	-0.62822
10703	P0C206	O75995	-0.22737
10704	P0C206	Q13480	-0.22718
10705	P0C206	P01719	-0.9894
10706	P0C206	Q96DH6	-0.61001
10707	P0C206	Q8TCX1	-0.053796
10708	P0C206	Q96HH4	-0.79503
10709	P0C206	Q32P51	-0.27167
10710	P0C206	Q8WUY1	-0.80952
10711	P0C206	Q8NFU1	-0.70317
10712	P0C206	P10276	-0.23552
10713	P0C206	O43423	-0.074103
10714	P0C206	Q9H3V2	-0.79503
10715	P0C206	P06753	-0.21069
10716	P0C206	Q15569	-0.64743

10717	P0C206	O75916	-0.39775
10718	P0C206	Q9NP86	-0.22503
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10721	P0C206	Q13474	-0.22702
10722	P0C206	O95466	-0.22021
10723	P0C206	Q15672	-0.22807
10724	P0C206	O75015	-1.0136
10725	P0C206	Q86TV6	-0.22698
10726	P0C206	Q9UKA9	-0.53445
10727	P0C206	Q5TGL8	-0.3763
10728	P0C206	Q2VWP7	-1.0008
10729	P0C206	P63252	-1.2949
10730	P0C206	O43251	-0.42028
10731	P0C206	Q9NX52	-1.2567
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10734	P0C206	O75908	-0.78266
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10736	P0C206	Q96K76	-0.43845
10737	P0C206	Q53S99	-0.27903
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10739	P0C206	O43760	-0.79295
10740	P0C206	P30085	-0.25135
10741	P0C206	O75191	-0.74543
10742	P0C206	P51451	-1.208
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10745	P0C206	Q8NEN0	-0.16636
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10747	P0C206	Q9NS75	-1.133
10748	P0C206	Q6YP21	-0.27083
10749	P0C206	P06319	-0.9894
10750	P0C206	Q06413	-0.075598
10751	P0C206	Q99595	-0.26278
10752	P0C206	Q8N2G6	-0.17787
10753	P0C206	Q9NZQ0	-0.97225
10754	P0C206	O95096	-0.23516
10755	P0C206	P01562	-0.74337
10756	P0C206	Q9P225	-0.44002
10757	P0C206	Q93099	-0.37713
10758	P0C206	Q9NU02	-0.29182
10759	P0C206	Q9NR97	-0.76605
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10762	P0C206	Q6ZTW0	-0.22889
10763	P0C206	Q13477	-1.1591
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10770	P0C206	Q6T311	-1.3287
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10776	P0C206	Q14896	-0.54623
10777	P0C206	Q9BXL7	-0.22714
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10779	P0C206	P36980	-0.80952
10780	P0C206	Q8NGV5	-1.1763
10781	P0C206	Q96CG8	-0.7403
10782	P0C206	P39900	-1.1583
10783	P0C206	Q9NSI8	-0.20978
10784	P0C206	Q6ZQY2	-0.22731
10785	P0C206	Q9P2S5	-0.22738
10786	P0C206	Q9H5V8	-1.4604
10787	P0C206	Q7Z4V5	-0.15778
10788	P0C206	O14817	-1.0646
10789	P0C206	Q15615	-1.1763
10790	P0C206	Q86X19	-0.87353
10791	P0C206	P78332	-0.75123
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10794	P0C206	Q8WUT4	-0.79503
10795	P0C206	P02788	-0.2003
10796	P0C206	Q6UXV4	-0.6207
10797	P0C206	P30480	-0.99995
10798	P0C206	P23142	-0.97397
10799	P0C206	P04180	-0.33611
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10804	P0C206	Q9BUP0	-0.22478
10805	P0C206	Q9HCC8	-0.54224
10806	P0C206	P49768	-0.22122
10807	P0C206	Q9NSD5	-0.92615
10808	P0C206	P13693	-0.12877
10809	P0C206	Q96PG2	-0.79503
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10819	P0C206	Q96SZ5	-0.39648
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10823	P0C206	P19525	-0.4834
10824	P0C206	Q9UKR8	-0.79503
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10828	P0C206	O14924	-0.29364
10829	P0C206	O75064	-0.14984
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10831	P0C206	P59538	-1.1287
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10835	P0C206	Q9BXY5	-0.29182
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10839	P0C206	P50583	-0.61959
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10854	P0C206	Q92187	-0.41132
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10856	P0C206	Q8NH72	-1.1763
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10863	P0C206	Q9NX36	-0.29995
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10865	P0C206	Q9Y2F9	-0.22485
10866	P0C206	P26440	-0.49028
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10874	P0C206	Q6ZSY5	-0.74245
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10907	P0C206	O75951	-0.78748
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10940	P0C206	Q5RGS3	-0.79503
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10978	POC206	O00746	-0.56536
10979	POC206	Q9NS93	-0.91833
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10981	POC206	P00395	-0.18707
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11017	POC206	Q9UN74	-1.2044
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11024	P0C206	Q16739	-0.51941
11025	P0C206	Q5GAN3	-0.8151
11026	P0C206	P98153	-0.87446
11027	P0C206	Q02779	-0.62979
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11037	P0C206	Q14766	-0.38597
11038	P0C206	P0C7I0	-0.32386
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11044	P0C206	Q86WK7	-0.97349
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11055	P0C206	Q96K12	-1.2756
11056	P0C206	O95104	-0.35243
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11059	P0C206	Q86T24	-0.46246
11060	P0C206	Q8IUC4	-0.37339
11061	P0C206	Q92997	-0.11322
11062	P0C206	Q9P218	-0.96905
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11064	P0C206	Q3ZCT8	-0.21011
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11072	P0C206	Q5J TZ5	-0.0035004
11073	P0C206	Q8NGJ8	-1.1763
11074	P0C206	Q495X7	-0.44814
11075	P0C206	P49767	-0.39342
11076	P0C206	Q6S5H5	-0.22748
11077	P0C206	Q15229	-0.59766
11078	P0C206	P01716	-0.9894
11079	P0C206	Q7Z6B7	-0.56671
11080	P0C206	A6NIL9	-0.79503
11081	P0C206	P08243	-0.36411
11082	P0C206	Q13938	-0.22061
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11084	P0C206	Q96HC4	-0.26596
11085	P0C206	Q8IYR2	-0.2013
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11087	P0C206	Q7RTU7	-0.23627
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11089	P0C206	Q9UF12	-0.32402
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11091	P0C206	Q5T601	-0.70818
11092	P0C206	P59095	-0.50624
11093	P0C206	P01178	-0.37949
11094	P0C206	Q14CZ8	-0.62545
11095	P0C206	P28336	-1.0854
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11102	POC206	Q43677	-0.42766
11103	POC206	Q9UFM2	-0.13902
11104	POC206	Q9NR31	-0.27089
11105	POC206	P01570	-0.75974
11106	POC206	O14958	-0.43639
11107	POC206	Q96RI0	-1.3714
11108	POC206	Q9UMZ2	-0.20838
11109	POC206	Q9H158	-1.2044
11110	POC206	Q96HU8	-1.3067
11111	POC206	Q96FT7	-0.97112
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11114	POC206	Q14656	-0.6601
11115	POC206	Q9Y286	-1.1211
11116	POC206	P57771	-0.5148
11117	POC206	Q8TBE7	-0.62997
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11119	POC206	Q9HBJ0	-0.83859
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11122	POC206	P51857	-0.22569
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11124	POC206	Q8NGJ9	-1.1763
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11126	POC206	Q9ULT6	-0.3587
11127	POC206	Q8N148	-1.1763
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11129	POC206	Q86WI1	-0.74748
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11132	POC206	P04196	-0.25944
11133	POC206	P18054	-0.21537
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11136	POC206	Q9NRJ3	-0.91464
11137	POC206	O95563	-0.57194
11138	POC206	O60397	-0.20068
11139	POC206	Q60I27	-0.78897
11140	POC206	Q02641	-0.4765
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11159	POC206	Q01449	-0.22659
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11170	POC206	Q53EU6	-0.7179
11171	POC206	Q5H943	-0.91833
11172	POC206	Q5VSG8	-0.50403



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11184	POC206	Q7L622	-0.20158
11185	POC206	Q5VVW2	-0.84118
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11189	POC206	O43866	-0.87539
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11198	POC206	Q9P275	-0.43562
11199	POC206	Q96J65	-1.0164
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11202	POC206	A6NDJ8	-0.91623
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11205	POC206	P06276	-0.66726
11206	POC206	Q8WXR4	-0.82011
11207	POC206	Q96LP4	-0.13116
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11210	POC206	Q13822	-0.9031
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11212	POC206	Q14492	-0.38567
11213	POC206	Q96IQ7	-0.95247
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11216	POC206	P49914	-0.34101
11217	POC206	Q9P1W9	-0.63484
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11222	POC206	P24530	-0.80158
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11224	POC206	P22362	-1.0436
11225	POC206	Q8NFT8	-0.67248
11226	POC206	B2RNN3	-0.87668
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11228	POC206	Q9NUJ1	-0.32772
11229	POC206	Q5VSP4	-0.80952
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11233	POC206	Q9UKP3	-0.4753
11234	POC206	Q14894	-0.95247
11235	POC206	Q12948	-0.30751
11236	POC206	Q7Z469	-0.57194
11237	POC206	Q6ZUK4	-0.79503
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11239	POC206	Q8WW43	-0.3107
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11241	POC206	P20648	-1.0088
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11244	POC206	Q13671	-0.24268
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11262	POC206	Q8TDI7	-0.79503
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11287	POC206	O60636	-0.89084
11288	POC206	Q96Q77	-0.29182
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11293	POC206	Q96LR9	-1.6694
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11298	POC206	P53634	-0.66012
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11311	POC206	Q8NFA0	-0.63489
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11313	POC206	Q13241	-0.98263
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11315	POC206	P19622	-0.22718
11316	POC206	Q8NFF5	-0.55347
11317	POC206	Q8NGI7	-1.1763
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11324	POC206	P49019	-1.327

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11326	POC206	Q8N326	-0.79503
11327	POC206	P20142	-0.683
11328	POC206	Q53RE8	-0.22741
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11336	POC206	Q8N614	-0.79503
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11405	POC206	Q8IW45	-0.42702
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11407	POC206	Q96NR3	-0.76546
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11484	P0C206	Q96DU3	-0.93062
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11495	P0C206	P35367	-0.58553
11496	P0C206	P57796	-0.62478
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11498	P0C206	P27708	-0.3874
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11500	P0C206	P07949	-0.65621
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11502	P0C206	Q9BXI6	-0.69236
11503	P0C206	A6NEE1	-0.32146
11504	P0C206	P11049	-0.17994
11505	P0C206	Q7Z7J7	-0.79503
11506	P0C206	P06734	-1.3505
11507	P0C206	Q96AP7	-0.76697
11508	P0C206	Q96GD4	-0.626
11509	P0C206	Q96KK3	-0.36695
11510	P0C206	P51571	-0.70125
11511	P0C206	Q9BY19	-0.79503
11512	P0C206	Q9HC07	-0.62997
11513	P0C206	O00408	-0.22538
11514	P0C206	Q96F46	-0.48181
11515	P0C206	Q9H2G2	-1.0165
11516	P0C206	Q8NGQ3	-1.1763
11517	P0C206	O15353	-0.37245
11518	P0C206	Q6UWH6	-0.68998
11519	P0C206	Q9WJR5	-0.20444
11520	P0C206	Q9NVL8	-0.15689
11521	P0C206	Q9NYZ2	-0.74011
11522	P0C206	P57052	-0.67324
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11525	P0C206	O75071	-0.29182
11526	P0C206	Q14002	-0.91044
11527	P0C206	P61026	-0.5319
11528	P0C206	Q8NBR9	-0.20178
11529	P0C206	Q86VR8	-0.88207
11530	P0C206	Q8N4V1	-0.60909
11531	P0C206	Q14507	-0.86199
11532	P0C206	P48637	-0.43334
11533	P0C206	Q96LB8	-0.84491
11534	P0C206	Q8TCC7	-0.72359
11535	P0C206	Q53RD9	-1.1664
11536	P0C206	Q99757	-0.25244
11537	P0C206	Q9NRH3	-0.20551
11538	P0C206	Q7Z2Y8	-0.24777
11539	P0C206	Q5QGT7	-0.84217
11540	P0C206	Q5W0U4	-0.23099
11541	P0C206	Q9H2X9	-0.86315
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11543	P0C206	Q03405	-0.75314
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11545	P0C206	Q14012	-0.31551
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11552	P0C206	P25391	-0.77136

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11554	POC206	Q96PQ1	-0.97776
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11556	POC206	Q13630	-0.77636
11557	POC206	O75900	-1.3019
11558	POC206	P51530	-0.23288
11559	POC206	Q8WWA1	-0.79503
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11562	POC206	Q9HDD0	-0.22281
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11564	POC206	Q99650	-0.66412
11565	POC206	Q8NGI9	-1.1763
11566	POC206	Q8NGZ4	-1.1763
11567	POC206	Q8NDZ4	-0.69054
11568	POC206	P16402	-0.53323
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11572	POC206	Q70CQ2	-0.40239
11573	POC206	Q95704	-0.22652
11574	POC206	P17787	-0.4498
11575	POC206	Q96AY3	-0.4052
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11580	POC206	Q8NEZ3	-0.2265
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11583	POC206	O14559	-0.28297
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11587	POC206	O43889	-0.46918
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11590	POC206	Q13351	-0.225
11591	POC206	Q8IXQ8	-0.22602
11592	POC206	P0DJJ7	-1.1195
11593	POC206	Q9Y2L6	-0.25546
11594	POC206	P83593	-0.95593
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11596	POC206	Q9BV94	-0.78707
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11604	POC206	Q5SNT2	-0.43959
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11607	POC206	Q9UPY6	-0.18529
11608	POC206	P31277	-0.24336
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11612	POC206	Q8IXK2	-0.60657
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11621	POC206	Q01118	-0.91562
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11627	POC206	Q8NGJ3	-1.1763
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11653	POC206	Q9BS16	-0.21886
11654	POC206	Q8IUX4	-0.29716
11655	POC206	Q3KNW5	-0.90953
11656	POC206	Q2HXU8	-0.90889
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11668	POC206	A6NM03	-1.1763
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11676	POC206	Q29865	-1.0001
11677	POC206	P55809	-0.14029
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11714	P0C206	Q9Y575	-0.48675
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11726	P0C206	Q96RI9	-1.2135
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11729	P0C206	Q00688	-0.22812
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11740	P0C206	P06702	-0.22919
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11754	P0C206	Q13371	-0.52308
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11758	P0C206	Q93077	-0.66158
11759	P0C206	Q96FN4	-0.22788
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11784	POC206	Q02156	-0.22973
11785	POC206	P13501	-0.6799
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11884	POC206	P0C7T2	-1.1763
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11906	POC206	Q15321	-0.89136
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11912	POC206	P23582	-0.62083
11913	POC206	Q9BRC7	-0.36584
11914	POC206	Q969Z3	-0.55915
11915	POC206	Q8NGF0	-1.1763
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11917	POC206	Q8IY33	-0.22747
11918	POC206	Q9NRR1	-0.86318
11919	POC206	Q01484	-0.2275
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11921	POC206	Q93096	-0.25474
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11923	POC206	P24557	-0.9417
11924	POC206	Q9H293	-0.67084
11925	POC206	Q9ULV0	-0.19762
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11927	POC206	Q01851	-0.2274
11928	POC206	Q8NHB7	-1.1763
11929	POC206	Q6NVV9	-0.32978
11930	POC206	Q8NFS9	-0.60834
11931	POC206	Q9H4M7	-0.25963
11932	POC206	Q6ZSI9	-0.99507

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11935	POC206	Q99759	-0.53447
11936	POC206	P32314	-0.41365
11937	POC206	P53396	-0.065912
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11939	POC206	O60494	-0.22742
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11943	POC206	Q8N6N7	-0.43776
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11945	POC206	P05556	-0.24286
11946	POC206	P05814	-0.72148
11947	POC206	Q8WVF2	-0.86122
11948	POC206	Q14952	-1.0498
11949	POC206	A2VCL2	-0.19771
11950	POC206	P25189	-0.96519
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11954	POC206	Q6ZUS6	-0.12422
11955	POC206	P0C7U9	-0.79503
11956	POC206	P60880	-0.206
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11958	POC206	Q99954	-0.80952
11959	POC206	Q9NVA4	-0.79503
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11973	POC206	A8MVW0	-0.79503
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11975	POC206	O75093	-0.66681
11976	POC206	Q9HBU6	-0.66575
11977	POC206	Q8TC26	-0.67806
11978	POC206	Q8WWY7	-0.74226
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11981	POC206	P42898	-0.39842
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11988	POC206	Q9HBW1	-0.6938
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12003	POC206	Q8WVN8	-0.54645
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12006	POC206	O60733	-0.2274
12007	POC206	O15217	-0.22403
12008	POC206	O00562	-0.11667

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12012	P0C206	Q9UL54	-0.60503
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12054	P0C206	P46934	-0.22742
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14556	P03363	Q95859	-0.56339
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26727	P03410	P07451	-0.13439
26728	P03410	Q8TF61	-0.29624
26729	P03410	Q9UIR0	-0.63308
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26734	P03410	Q8NH57	-1.153
26735	P03410	Q8IXN7	-0.95444
26736	P03410	Q96JD6	-0.22687
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26747	P03410	Q15612	-0.997
26748	P03410	P61266	-0.58555
26749	P03410	Q9BYU1	-0.51034
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26752	P03410	Q9H207	-1.153

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26754	P03410	Q9UPQ0	-0.22719
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26756	P03410	Q9UBC7	-0.70646
26757	P03410	Q86T65	-0.21702
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26761	P03410	Q6ZSY5	-0.60316
26762	P03410	P51159	-0.25103
26763	P03410	Q6P1K1	-0.61835
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26766	P03410	Q8IVL8	-1.2794
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26816	P03410	Q96D42	-0.37348
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27139	P03410	Q8NGQ6	-1.153
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27578	P03410	O76002	-1.153
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27580	P03410	P01716	-0.90565
27581	P03410	P06737	-0.51347
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27638	P03410	Q6UY14	-0.30014
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27667	P03410	Q86X10	-0.59039
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27695	P03410	Q16394	-0.56324
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27757	P03410	Q9HCG7	-0.73681
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28423	P03410	Q9UN86	-0.90637
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28429	P03410	Q53RT3	-1.067
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28435	P03410	P40939	-0.086078
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28439	P03410	O95006	-1.153
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28441	P03410	Q96GF1	-0.91266
28442	P03410	P83593	-0.88633
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28455	P03410	Q8IW93	-0.62342
28456	P03410	Q14669	-0.22954
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28510	P03410	Q6P093	-1.1981
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28521	P03410	Q31612	-0.88938
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28528	P03410	Q8TC12	-1.3246
28529	P03410	Q8N4P3	-0.29611
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28556	P03410	Q9H208	-1.153
28557	P03410	Q8NH07	-1.153
28558	P03410	Q8WWZ1	-0.71391
28559	P03410	Q9BYC5	-0.38276
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28849	P03410	Q16595	-0.1557
28850	P03410	Q8NGK9	-1.153
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28852	P03410	Q16478	-0.63188
28853	P03410	Q9NPH3	-1.6993
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28872	P03410	Q8NGG1	-1.0187
28873	P03410	Q95861	-0.27418
28874	P03410	Q9ULE3	-0.030007
28875	P03410	Q8NH48	-1.153
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28877	P03410	O43866	-0.75923
28878	P03410	Q9NY37	-0.88396
28879	P03410	Q9NP56	-0.35402
28880	P03410	P57796	-0.64773

28881	P03410	P36406	-0.52691
28882	P03410	Q9Y5X4	-0.24807
28883	P03410	Q7Z2R9	-0.71003
28884	P03410	P56915	-0.13892
28885	P03410	P51788	-0.70017
28886	P03410	Q9H3Y8	-0.52461
28887	P03410	Q9Y689	-1.269
28888	P03410	P23510	-0.41174
28889	P03410	Q15464	-0.62967
28890	P03410	Q9NUK0	-0.10718
28891	P03410	P49146	-1.1352
28892	P03410	Q2VPA4	-0.60751
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28896	P03410	P17787	-0.46251
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28907	P03410	Q92752	-0.49358
28908	P03410	Q95755	-0.62933
28909	P03410	Q969Z3	-0.48007
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28922	P03410	Q99808	-0.78427
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28924	P03410	O15212	-0.14041
28925	P03410	Q9UDX3	-0.9136
28926	P03410	P03372	-0.22747
28927	P03410	O96009	-1.1988
28928	P03410	Q9Y577	-0.28493
28929	P03410	Q9UJA3	-0.19047
28930	P03410	P02778	-0.79833
28931	P03410	Q9BX10	-0.83175
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28934	P03410	Q8MH63	-0.66489
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28936	P03410	Q8NG81	-1.153
28937	P03410	Q8WY21	-0.20803
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28941	P03410	Q15646	-0.21417
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28950	P03410	P16435	-0.77413
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28979	P03410	P40205	-0.35533
28980	P03410	P19397	-0.28282
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28982	P03410	P15538	-0.46771
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29284	P03410	P55103	-0.60178
29285	P03410	P42262	-0.96483
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29335	P03410	Q8IZ08	-1.2185
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30997	P03410	Q7Z3V4	-0.74859
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31017	P03410	Q13470	-0.9444
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31425	P03410	Q9UK32	-0.99012
31426	P03410	Q9H239	-1.4421
31427	P03410	Q96JQ0	-1.0493
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31433	P03410	Q8IVV2	-0.23118
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31438	P03410	Q562R1	-0.42266
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31440	P03410	Q96SU4	-0.44496
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31457	P03410	P17600	-0.29247
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31487	P03410	Q8TF71	-0.8856
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31489	P03410	P49189	-0.45571
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31518	P03410	Q9NRC9	-0.7136
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31522	P03410	Q96GM1	-0.74755
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31526	P03410	P25101	-0.47821
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32251	P03410	Q13557	-0.93996
32252	P03410	P00492	-0.27481
32253	P03410	Q9Y2L9	-0.24336
32254	P03410	Q4LDE5	-0.59445
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32265	P03410	Q14004	-0.28491
32266	P03410	Q9H270	-0.22644
32267	P03410	Q8N816	-0.63308
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32271	P03410	O60423	-0.97709
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32276	P03410	Q96RU8	-0.22941
32277	P03410	P25116	-0.41668
32278	P03410	P51513	-0.12882
32279	P03410	O75071	-0.21125
32280	P03410	Q9NP08	-0.2281
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32284	P03410	Q6X4U4	-0.91127
32285	P03410	Q9H0C2	-0.50602
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32287	P03410	Q9NS15	-0.68507
32288	P03410	Q96PQ7	-0.21311
32289	P03410	O00299	-0.17746
32290	P03410	Q8IUG5	-0.11674
32291	P03410	O14678	-1.4241
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32296	P03410	Q6DHY5	-1.3577
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32381	P03410	P29350	-0.22742
32382	P03410	O60241	-1.2569
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32385	P03410	P48443	-0.22768
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32387	P03410	Q9Y6V0	-0.26153
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32389	P03410	Q96NR8	-1.1685
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32391	P03410	Q7Z2Y5	-1.2686
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32394	P03410	Q8TEH3	-0.50258
32395	P03410	Q16610	-0.44937
32396	P03410	Q8WTU2	-0.76301
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32412	P03410	Q14919	-0.07277
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32423	P03410	Q9P109	-0.38569
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32475	P03410	O60931	-0.94492
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32479	P03410	Q9UI15	-0.20657
32480	P03410	Q92854	-0.57474
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33953	P03410	Q96IK5	-0.20745
33954	P03410	Q9UBR5	-1.222
33955	P03410	P80511	-0.22913
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33957	P03410	O00478	-0.63308
33958	P03410	Q96T88	-0.22742
33959	P03410	Q8NFA2	-0.22738
33960	P03410	Q9NRX6	-0.3672
33961	P03410	Q8TDW7	-1.337
33962	P03410	Q8NGH3	-1.153
33963	P03410	P30443	-0.96062
33964	P03410	Q8TE67	-0.22741
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33969	P03410	O95214	-0.63308
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33971	P03410	Q99501	-0.055555
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33978	P03410	P12109	-0.90178
33979	P03410	P47211	-1.1555
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33981	P03410	Q70CQ4	-0.66744
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34041	P03410	Q9UL25	-0.27062
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34379	P03410	Q13018	-1.2356
34380	P03410	Q9GZV1	-0.36038
34381	P03410	Q9Y5E9	-1.0722
34382	P03410	P02689	-0.16154
34383	P03410	Q9UGF6	-1.153
34384	P03410	Q5T481	-0.7576
34385	P03410	Q9H8S5	-0.0091707
34386	P03410	P36776	-0.11399
34387	P03410	Q9Y616	-0.36072
34388	P03410	Q9HCQ7	-0.9388
34389	P03410	Q6QNK2	-1.2876
34390	P03410	Q2MJR0	-0.41246
34391	P03410	Q96I13	-0.22839
34392	P03410	Q5UAW9	-1.3028
34393	P03410	Q8NHS2	-0.1895
34394	P03410	Q9Y2C2	-0.45688
34395	P03410	Q8IYK8	-1.2887
34396	P03410	P48739	-0.24317
34397	P03410	Q8NGG4	-1.153
34398	P03410	Q2NKQ1	-0.64626
34399	P03410	O95343	-0.2282
34400	P03410	O43914	-0.56436
34401	P03410	Q9C0B6	-0.4982
34402	P03410	Q5TF21	-0.63308
34403	P03410	Q04826	-0.88938
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34405	P03410	Q9NY47	-0.73993
34406	P03410	Q96SL4	-1.1629
34407	P03410	A8MTL3	-0.15328
34408	P03410	Q8N743	-0.797
34409	P03410	Q15090	-0.21665
34410	P03410	P54709	-0.66208
34411	P03410	Q495M3	-0.64858
34412	P03410	Q9Y5P6	-0.65487
34413	P03410	Q02818	-0.12868
34414	P03410	Q7Z4R8	-0.63059
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34416	P03410	D6RBQ6	-0.66744
34417	P03410	Q8IXL6	-1.0872
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34419	P03410	O95967	-0.42117
34420	P03410	Q9Y385	-1.5693
34421	P03410	P00915	-0.14795
34422	P03410	P0C7P0	-0.066299
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34424	P03410	Q99719	-0.22518
34425	P03410	Q2TBC4	-0.55756
34426	P03410	Q9HAW8	-0.80553
34427	P03410	O75129	-0.63308
34428	P03410	Q5BKT4	-0.78737

34429	P03410	O15381	-0.37112
34430	P03410	Q96PE1	-1.1497
34431	P03410	Q6DKJ4	-0.41481
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34433	P03410	Q9ULX5	-0.47564
34434	P03410	P43361	-0.10645
34435	P03410	Q9P0X4	-0.46338
34436	P03410	P35070	-1.2322
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34438	P03410	Q99218	-1.1054
34439	P03410	O14815	-1.0161
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34444	P03410	Q76LX8	-0.61589
34445	P03410	Q9NQ11	-1.1336
34446	P03410	Q86XS5	-1.1051
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34448	P03410	Q53R12	-0.797
34449	P03410	Q3SX64	-0.065561
34450	P03410	Q86YN6	-0.22635
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34452	P03410	Q6ZS81	-0.63308
34453	P03410	Q9H0E7	-0.27206
34454	P03410	O43298	-0.17054
34455	P03410	Q9BY49	-1.0122
34456	P03410	Q95398	-0.53
34457	P03410	A6NH21	-0.69144
34458	P03410	Q09013	-0.53763
34459	P03410	P03986	-0.88457
34460	P03410	Q08462	-0.8218
34461	P03410	Q8NFX0	-0.85052
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34463	P03410	Q8IV77	-1.2417
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34465	P03410	Q96IK0	-0.84999
34466	P03410	P24347	-1.58
34467	P03410	P19224	-0.87606
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34472	P03410	Q9H313	-0.74505
34473	P03410	Q5SSQ6	-0.05735
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34480	P03410	Q03154	-0.24822
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34483	P03410	Q9NVV0	-0.78516
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34512	P03410	Q5H943	-0.797
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34514	P03410	Q8IVQ6	-0.50675
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34516	P03410	Q92503	-0.5083
34517	P03410	P00390	-0.22392
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34523	P03410	O43716	-0.46098
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34543	P03410	Q8NH43	-1.153
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34547	P03410	P59551	-1.0411
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35230	P03410	B7U540	-1.013
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35235	P03410	P10082	-0.69938
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35237	P03410	Q96L91	-0.2824
35238	P03410	P98198	-1.0897
35239	P03410	Q8TDI7	-0.63308
35240	P03410	Q15617	-1.153
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35242	P03410	P40126	-0.58091
35243	P03410	Q9GZQ8	-0.15901
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35245	P03410	O00628	-0.22743
35246	P03410	Q9NQV8	-0.51142
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35249	P03410	Q3MJ16	-0.44228
35250	P03410	Q93038	-1.3024
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35253	P03410	P01210	-0.83476
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35256	P03410	Q8NGE2	-1.153
35257	P03410	P41159	-0.38233
35258	P03410	O95376	-0.21581
35259	P03410	P0DJD1	-0.20597
35260	P03410	Q8NH70	-1.153
35261	P03410	Q6ZXV5	-0.63308
35262	P03410	B0FP48	-0.63308
35263	P03410	O95970	-0.22869
35264	P03410	P59538	-1.067

35265	P03410	O75629	-0.88382
35266	P03410	Q8WUH6	-0.63308
35267	P03410	O75191	-0.88331
35268	P03410	O43933	-0.24902
35269	P03410	P15814	-0.79743
35270	P03410	B1AJZ9	-0.074429
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36086	P03410	Q96R09	-1.153
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36088	P03410	Q49A17	-0.58391
36089	P03410	Q8NDY8	-0.63308
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36112	P03410	Q96JB6	-0.55395
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36124	P03410	Q8WVX9	-1.2751
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36152	P03410	P35916	-0.74414
36153	P03410	Q8WYN0	-0.35155
36154	P03410	Q8NH67	-1.153
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36218	P03410	Q9Y6R4	-0.53474
36219	P03410	Q9UNI6	-0.45194
36220	P03410	Q68CQ1	-0.63308
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36279	P03410	O95665	-1.3626
36280	P03410	Q9BV99	-0.22737
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37362	P03410	P78362	-0.71539
37363	P03410	Q9NZ53	-0.38668
37364	P03410	Q9BQL6	-0.30189
37365	P03410	Q99880	-0.80275
37366	P03410	Q00535	-0.21253
37367	P03410	Q92932	-0.98519
37368	P03410	Q8WUJ1	-0.64081
37369	P03410	P31391	-1.319
37370	P03410	Q5RIA9	-0.66861
37371	P03410	O43570	-0.83293
37372	P03410	Q8TCU5	-0.30899
37373	P03410	Q9Y6C5	-0.65619
37374	P03410	Q9H114	-0.8833
37375	P03410	Q92637	-0.98917
37376	P03410	P30495	-0.88938
37377	P03410	Q8N136	-0.23741
37378	P03410	Q9NS61	-0.397
37379	P03410	P01303	-0.64237
37380	P03410	Q9UKZ9	-0.7359
37381	P03410	O60237	-0.22741
37382	P03410	O75936	-0.23365
37383	P03410	A6NDG6	-0.21614
37384	P03410	A6NCQ9	-0.73225
37385	P03410	Q7Z4N8	-0.48554
37386	P03410	Q5T7N3	-0.2274
37387	P03410	Q8NAF0	-0.152
37388	P03410	Q12931	-0.47554
37389	P03410	P49863	-1.3874
37390	P03410	Q9Y232	-0.2167
37391	P03410	Q16678	-0.76158
37392	P03410	Q9Y5J5	-0.14268

37393	P03410	Q9Y5G0	-1.0719
37394	P03410	O43908	-0.6201
37395	P03410	Q5T5X7	-0.074999
37396	P03410	Q8N9W6	-0.4235
37397	P03410	O95819	-0.62922
37398	P03410	Q96B21	-0.63308
37399	P03410	Q9H082	-0.79285
37400	P03410	P01270	-0.58637
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37403	P03410	P36941	-0.22721
37404	P03410	Q5T0N1	-0.079195
37405	P03410	Q96KC2	-1.269
37406	P03410	Q86YN1	-0.71119
37407	P03410	P0CW01	-0.5628
37408	P03410	P01569	-0.73299
37409	P03410	Q8TD33	-0.71003
37410	P03410	Q92523	-0.68357
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37412	P03410	Q08830	-1.0523
37413	P03410	Q13163	-0.3931
37414	P03410	P11362	-0.32401
37415	P03410	Q9UBQ6	-1.2235
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37422	P03410	Q07283	-0.26184
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37424	P03410	Q9Y5Y3	-1.2185
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37431	P03410	Q9ULQ1	-0.40459
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37434	P03410	P63136	-0.26043
37435	P03410	P47804	-0.70466
37436	P03410	P28340	-0.3319
37437	P03410	Q86WD7	-0.57411
37438	P03410	Q9NRM2	-0.13329
37439	P03410	O60309	-0.63308
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37442	P03410	P78509	-0.64409
37443	P03410	P14550	-0.32255
37444	P03410	Q14843	-1.518
37445	P03410	Q9HBJ0	-0.98112
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37449	P03410	Q7Z7C8	-0.46696
37450	P03410	Q96RW7	-0.97559
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37453	P03410	O15357	-0.22741
37454	P03410	Q03013	-0.33492
37455	P03410	Q9H3R1	-0.62605
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37460	P03410	P04229	-0.51359
37461	P03410	Q96AX9	-0.22732
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37465	P03410	Q8TCT1	-0.2808
37466	P03410	Q7Z408	-0.797
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37468	P03410	Q9H2A3	-0.22847

37469	P03410	Q86SI9	-0.71003
37470	P03410	Q9NWH2	-0.63308
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37472	P03410	Q5MY95	-1.3184
37473	P03410	Q8NB46	-0.22717
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37478	P03410	Q99715	-1.2459
37479	P03410	Q96IC2	-0.87522
37480	P03410	Q8NEN9	-0.22741
37481	P03410	Q8WXX1	-0.3944
37482	P03410	Q9Y2G8	-0.7962
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37484	P03410	P11586	-0.5532
37485	P03410	A6NGE4	-0.22745
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37487	P03410	Q96S82	-0.21886
37488	P03410	Q93098	-0.92317
37489	P03410	Q14957	-0.66374
37490	P03410	P01909	-0.73255
37491	P03410	Q8NGH9	-1.153
37492	P03410	Q02297	-0.2756
37493	P03410	P80098	-0.88158
37494	P03410	Q9POM6	-0.95823
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37499	P03410	P37088	-0.40562
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37503	P03410	Q15393	-1.756
37504	P03410	Q8TAS1	-0.5326
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37507	P14075	P10082	-0.68372
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37509	P14075	Q9Y2A9	-0.60804
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37520	P14075	Q01523	-0.77994
37521	P14075	A8MT33	-0.42171
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37524	P14075	A6NH00	-1.1027
37525	P14075	P98153	-0.92309
37526	P14075	Q5TF21	-0.86584
37527	P14075	Q5VYX0	-0.99961
37528	P14075	Q13563	-0.27982
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37532	P14075	Q03518	-0.34264
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37535	P14075	Q9UN66	-1.1297
37536	P14075	P01036	-0.89477
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37540	P14075	Q14BN4	-0.87863
37541	P14075	P29992	-0.80937
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37557	P14075	P59536	-1.0953
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37570	P14075	Q8NH55	-1.1027
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37646	P14075	Q8NGP8	-1.1027
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37648	P14075	P21462	-0.8576
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37787	P14075	Q96MW7	-0.33043
37788	P14075	Q4KMG9	-0.86584
37789	P14075	Q9BWM7	-0.83915
37790	P14075	Q8N8A6	-0.4991
37791	P14075	Q13557	-0.60555
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37793	P14075	Q5T0B9	-0.21172
37794	P14075	Q2M385	-0.86584
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37796	P14075	Q9HB63	-0.8981
37797	P14075	Q9BYW3	-0.79616
37798	P14075	Q5T3I0	-0.44783
37799	P14075	Q9NWL6	-0.25221
37800	P14075	P01189	-0.53757
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37803	P14075	Q16659	-0.2274
37804	P14075	Q9BZM5	-0.92557
37805	P14075	Q9BX51	-0.41457
37806	P14075	O15296	-0.5727
37807	P14075	Q6NSJ0	-0.65824
37808	P14075	Q6ZRZ4	-0.87849
37809	P14075	Q96DR8	-0.90729
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37815	P14075	Q99759	-0.44301
37816	P14075	P43378	-0.24016
37817	P14075	P07498	-0.84954
37818	P14075	O95274	-0.90499
37819	P14075	Q9P219	-0.18921
37820	P14075	Q6IQ23	-0.22741
37821	P14075	Q8TC94	-0.30492
37822	P14075	A6NHG4	-0.37147
37823	P14075	Q6DN12	-0.87039
37824	P14075	Q8WU17	-0.53757
37825	P14075	P59901	-0.31983
37826	P14075	Q96LU7	-0.87849
37827	P14075	P30460	-0.93787
37828	P14075	Q52WX2	-0.85083
37829	P14075	P49903	-0.93349
37830	P14075	Q14005	-0.37924
37831	P14075	Q8NC60	-0.19977
37832	P14075	Q9Y6H6	-0.89191
37833	P14075	O14508	-0.22741
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37835	P14075	Q9Y5Z6	-0.79236
37836	P14075	Q6P1N9	-0.24578
37837	P14075	Q8WWA1	-0.86584
37838	P14075	Q8IVB5	-0.16078
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37843	P14075	P78362	-0.36388
37844	P14075	Q9QC07	-0.48794
37845	P14075	Q96HP0	-0.31757
37846	P14075	Q14206	-0.70604
37847	P14075	Q16820	-1.2696
37848	P14075	Q9HA65	-1.2307

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37852	P14075	Q8NGB4	-1.1027
37853	P14075	Q8IZC4	-0.80399
37854	P14075	Q96RN1	-0.51653
37855	P14075	Q9Y2Y1	-0.17519
37856	P14075	Q9HDD0	-0.32631
37857	P14075	Q86SJ2	-0.33575
37858	P14075	Q76KP1	-0.69611
37859	P14075	P18084	-0.77974
37860	P14075	P15622	-0.21172
37861	P14075	P00492	-0.18996
37862	P14075	P36551	-0.17364
37863	P14075	Q14831	-0.66537
37864	P14075	Q6UXH1	-0.3692
37865	P14075	P27448	-0.47461
37866	P14075	Q9UL17	-0.47692
37867	P14075	O43812	-0.19477
37868	P14075	Q9HAP6	-0.21029
37869	P14075	P01588	-0.2481
37870	P14075	Q9Y2I9	-1.0287
37871	P14075	Q8N4T4	-0.81922
37872	P14075	Q9UNK0	-0.93974
37873	P14075	P58170	-1.1027
37874	P14075	Q00888	-0.86886
37875	P14075	O15457	-0.45576
37876	P14075	Q9BWX1	-0.19201
37877	P14075	Q15036	-0.16759
37878	P14075	Q9UQQ1	-1.2106
37879	P14075	Q9UKG9	-0.56051
37880	P14075	Q9H4I0	-0.3747
37881	P14075	Q9BRX9	-0.22766
37882	P14075	P54821	-0.22546
37883	P14075	Q13562	-0.22744
37884	P14075	P21217	-0.68353
37885	P14075	Q96J02	-0.22741
37886	P14075	A6NF34	-0.8941
37887	P14075	P11055	-0.50978
37888	P14075	P01704	-0.97479
37889	P14075	Q14202	-0.48318
37890	P14075	Q6ZS62	-0.86584
37891	P14075	P14867	-0.78023
37892	P14075	P29274	-0.3025
37893	P14075	Q8IWN7	-0.15999
37894	P14075	Q9ULH1	-0.49767
37895	P14075	Q9BQF6	-0.75272
37896	P14075	O94885	-0.22545
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37898	P14075	Q8WXE0	-0.22743
37899	P14075	Q12931	-0.48372
37900	P14075	Q9HCC6	-0.22489
37901	P14075	O14669	-1.3916
37902	P14075	Q14CB8	-0.83952
37903	P14075	Q6P4F2	-0.36217
37904	P14075	Q8WVT3	-0.38521
37905	P14075	Q9Y320	-0.54396
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37907	P14075	Q8WWV3	-0.82157
37908	P14075	P09326	-0.54385
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37910	P14075	Q95670	-0.40377
37911	P14075	Q6BAA4	-0.31773
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37913	P14075	O60896	-0.30326
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37915	P14075	Q969F0	-0.85795
37916	P14075	Q8NE09	-0.66133
37917	P14075	Q8NGF0	-1.1027
37918	P14075	Q9BYT3	-0.59039
37919	P14075	P26842	-0.62981
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37921	P14075	Q0P670	-0.86584
37922	P14075	P49913	-0.72778
37923	P14075	P56373	-0.5564
37924	P14075	P0C7L1	-0.79897



37925	P14075	P04637	-0.22292
37926	P14075	Q6ZMY3	-0.39639
37927	P14075	Q9UNE0	-0.59422
37928	P14075	Q12929	-0.22741
37929	P14075	Q9Y247	-0.21602
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37936	P14075	P59190	-0.98206
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37938	P14075	Q96LZ2	-0.058158
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37941	P14075	O14522	-0.77805
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37944	P14075	P49757	-0.28614
37945	P14075	Q9BZR8	-0.22725
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37947	P14075	Q9P121	-0.22827
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37954	P14075	Q8TBF4	-0.39618
37955	P14075	P04217	-0.677
37956	P14075	P49685	-1.2378
37957	P14075	Q96JK4	-0.51211
37958	P14075	O15488	-0.11836
37959	P14075	Q8NI36	-0.22798
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37966	P14075	P18464	-0.88446
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37969	P14075	P61278	-0.76409
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37986	P14075	Q9NXR8	-0.22733
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37993	P14075	P08574	-0.40776
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37995	P14075	O75146	-0.20733
37996	P14075	Q92673	-1.0922
37997	P14075	Q86YJ6	-0.61521
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38015	P14075	Q05996	-0.92554
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38018	P14075	Q9UHR4	-0.22739
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38029	P14075	Q96KK4	-1.1027
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38032	P14075	Q96N76	-0.33419
38033	P14075	P52739	-0.36618
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38037	P14075	Q56NI9	-0.35944
38038	P14075	Q53FZ2	-0.65603
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38043	P14075	P55042	-0.60517
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38052	P14075	Q01064	-0.22456
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38055	P14075	Q14004	-0.07673
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38059	P14075	P35228	-0.25862
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38061	P14075	Q63HQ2	-0.82975
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38081	P14075	Q8IY82	-0.45102
38082	P14075	Q3KP44	-0.2274
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38094	P14075	Q9BWT3	-0.44792
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38134	P14075	Q6PIW4	-0.45622
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38138	P14075	Q96L50	-0.43639
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38184	P14075	Q8NH49	-1.1027
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38211	P14075	Q8NH95	-1.1027
38212	P14075	O00755	-0.41685
38213	P14075	Q9NQI0	-0.47042
38214	P14075	Q6NXT1	-0.22741
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38216	P14075	Q14763	-0.36505
38217	P14075	Q9GZU5	-1.0094
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38219	P14075	Q12767	-0.86584
38220	P14075	Q7Z7B7	-0.84399
38221	P14075	Q02575	-0.23999
38222	P14075	Q9UDX3	-1.0664
38223	P14075	Q02127	-0.58266
38224	P14075	Q8TF42	-0.26751
38225	P14075	Q9H5X1	-0.13403
38226	P14075	Q5JVF3	-0.2989
38227	P14075	Q8WZ04	-0.47477
38228	P14075	O43502	-0.2019

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38230	P14075	P56278	-0.30188
38231	P14075	Q96JF0	-0.72399
38232	P14075	Q8NDB2	-0.43292
38233	P14075	A8MZ36	-0.20308
38234	P14075	Q08334	-0.59907
38235	P14075	P10266	-0.32527
38236	P14075	Q496Y0	-0.2274
38237	P14075	Q06520	-0.22447
38238	P14075	Q8TBG4	-0.41026
38239	P14075	Q16181	-0.22485
38240	P14075	P10153	-0.81311
38241	P14075	Q96P67	-1.1721
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38243	P14075	P14778	-0.89146
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38245	P14075	Q9UKJ0	-0.46493
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38247	P14075	P04222	-0.88446
38248	P14075	Q9Y2G8	-0.8703
38249	P14075	Q12952	-0.3553
38250	P14075	Q8IYS1	-0.50416
38251	P14075	P55786	-0.30046
38252	P14075	P30480	-0.88446
38253	P14075	Q9P0U4	-0.22754
38254	P14075	O60346	-0.22763
38255	P14075	A2VEC9	-1.0473
38256	P14075	Q4KWH8	-0.50182
38257	P14075	Q7RTZ2	-0.32253
38258	P14075	Q9Y6M7	-0.78564
38259	P14075	P26640	-0.29415
38260	P14075	Q86VI3	-0.59087
38261	P14075	Q75369	-0.4468
38262	P14075	Q92538	-0.28871
38263	P14075	Q8TAI7	-0.98849
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38266	P14075	Q7Z4W1	-0.6867
38267	P14075	Q6WRI0	-0.97191
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38269	P14075	Q9NXP7	-0.42868
38270	P14075	Q8NGS5	-1.1027
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38272	P14075	Q01628	-0.76679
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38276	P14075	Q6AI14	-0.90671
38277	P14075	Q9BQI6	-0.22741
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38279	P14075	Q9Y696	-0.21804
38280	P14075	Q7Z2X4	-0.093862
38281	P14075	Q8NDV3	-0.5237
38282	P14075	Q92802	-0.16078
38283	P14075	P22105	-1.0244
38284	P14075	Q06432	-0.93545
38285	P14075	Q75084	-0.52384
38286	P14075	P02686	-0.72187
38287	P14075	O43909	-0.75543
38288	P14075	Q8NG80	-0.91257
38289	P14075	Q9Y6M4	-0.8032
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38291	P14075	Q93086	-0.92348
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38310	P14075	Q5H8A3	-0.7968
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38312	P14075	O14672	-0.25698
38313	P14075	O60909	-0.48757
38314	P14075	Q9NVR0	-0.87849
38315	P14075	Q6GPH4	-0.222
38316	P14075	Q8TEW0	-0.22666
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38321	P14075	Q13423	-0.68764
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38324	P14075	Q96JP9	-1.1383
38325	P14075	Q9NZN3	-0.31951
38326	P14075	Q8WVD5	-0.30297
38327	P14075	Q9BRQ5	-0.31983
38328	P14075	Q6UB35	-0.67087
38329	P14075	O75128	-0.60515
38330	P14075	Q8IWT1	-0.78472
38331	P14075	O15547	-0.73984
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38333	P14075	Q9Y6K8	-0.44685
38334	P14075	O14683	-0.86005
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38336	P14075	Q9H3T2	-0.85839
38337	P14075	Q15078	-0.076995
38338	P14075	Q5SZI1	-0.86584
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38340	P14075	Q9NR31	-0.49962
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38342	P14075	P41226	-0.61122
38343	P14075	O94810	-0.61356
38344	P14075	Q92953	-0.86026
38345	P14075	Q9UL26	-0.48528
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38366	P14075	Q96RA2	-0.86289
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38369	P14075	P29401	-0.18386
38370	P14075	P30046	-0.40076
38371	P14075	Q63HR2	-0.22741
38372	P14075	Q8NFY9	-0.21496
38373	P14075	P60201	-0.54903
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38388	P14075	Q9Y263	-0.22853
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38391	P14075	Q16665	-0.23909
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38394	P14075	P21554	-0.62217
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38407	P14075	P42575	-0.22523
38408	P14075	Q6ZUX7	-0.86584
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38422	P14075	P30273	-0.58646
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38433	P14075	Q7RTP6	-0.61998
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38435	P14075	A8MYV0	-0.62648
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38438	P14075	P46019	-0.20873
38439	P14075	Q8N183	-0.41423
38440	P14075	O60636	-0.91681
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38443	P14075	Q00987	-0.2163
38444	P14075	Q9NRH2	-0.81852
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38447	P14075	Q9C0B9	-0.47014
38448	P14075	Q9BRI3	-0.69074
38449	P14075	Q9UL52	-1.6063
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38452	P14075	Q9Y3L3	-1.0096
38453	P14075	Q8WTR4	-0.57232
38454	P14075	Q2M296	-0.79019
38455	P14075	O15213	-0.22746
38456	P14075	Q9BXA7	-0.9495

38457	P14075	O43520	-0.52588
38458	P14075	Q8NGJ4	-1.1027
38459	P14075	Q8TE58	-1.2214
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38461	P14075	P46063	-0.22633
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38463	P14075	O95932	-0.39149
38464	P14075	Q8IYK4	-0.43383
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38467	P14075	Q15195	-0.87849
38468	P14075	P78324	-1.088
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38474	P14075	Q13322	-0.22741
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38479	P14075	P0DM48	-0.22717
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38483	P14075	P59510	-1.0643
38484	P14075	Q8N283	-0.22739
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38487	P14075	Q9NXL6	-0.80218
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38524	P14075	Q96LJ7	-0.86483
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38539	P14075	Q5T7M4	-0.8736
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38543	P14075	Q9P1P4	-1.143
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38545	P14075	Q9UIG8	-0.94223
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38622	P14075	Q9BT67	-0.39827
38623	P14075	P54296	-0.68406
38624	P14075	Q5T6R2	-0.19562
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38626	P14075	Q5SYB0	-0.36675
38627	P14075	Q96G04	-0.034293
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38633	P14075	Q4G0W2	-1.0054
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38635	P14075	Q13151	-0.25725
38636	P14075	P52798	-0.49924
38637	P14075	Q86W33	-0.95253
38638	P14075	P14923	-0.55164
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38645	P14075	O75914	-0.58226
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38647	P14075	O95057	-1.1897
38648	P14075	P05230	-0.24884
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38655	P14075	P57103	-0.76906
38656	P14075	Q6UWF9	-0.87849
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38672	P14075	Q5SR53	-0.21147
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38679	P14075	Q6GPI1	-1.2738
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38695	P14075	Q6ZMN8	-0.41982
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38723	P14075	Q9H9P2	-0.57281
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38729	P14075	Q14492	-0.57799
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38753	P14075	Q86YS7	-0.60496
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38818	P14075	P61619	-0.76219
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38838	P14075	O43364	-0.13175
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38874	P14075	Q9Y4D7	-0.93007
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38915	P14075	P01620	-0.97479
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38918	P14075	Q9UBT7	-0.38572
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39008	P14075	P01782	-0.97479
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39054	P14075	Q76LX8	-0.49874
39055	P14075	Q9UPN4	-0.23553
39056	P14075	Q9BXS0	-1.3179
39057	P14075	P04433	-0.97479
39058	P14075	P27658	-1.0288
39059	P14075	C9JQI7	-0.86584
39060	P14075	Q9Y2G1	-0.3867
39061	P14075	P07237	-0.32228
39062	P14075	Q96GX1	-0.69815
39063	P14075	Q9Y2G4	-0.2274
39064	P14075	Q99675	-0.22696

39065	P14075	Q3SXZ3	-0.21172
39066	P14075	Q9Y6I7	-0.22997
39067	P14075	Q12766	-0.22732
39068	P14075	Q1EHB4	-0.98044
39069	P14075	Q96P20	-0.22723
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39071	P14075	P61626	-0.96746
39072	P14075	Q8NEX9	-0.67101
39073	P14075	Q6UB99	-0.25591
39074	P14075	Q53HR8	-0.40588
39075	P14075	P35858	-0.76017
39076	P14075	A6NFX1	-0.85789
39077	P14075	Q8WU68	-0.50673
39078	P14075	Q674R7	-0.79668
39079	P14075	Q5VU92	-0.22693
39080	P14075	Q15583	-0.23621
39081	P14075	Q96Q45	-0.84388
39082	P14075	P58182	-1.1027
39083	P14075	Q10587	-0.21353
39084	P14075	Q0VG99	-0.22749
39085	P14075	Q96CU9	-0.77327
39086	P14075	Q9UNF1	-0.10287
39087	P14075	P04155	-0.2432
39088	P14075	Q69YN2	-0.36877
39089	P14075	Q9HDB9	-0.40851
39090	P14075	Q9BZY9	-0.50845
39091	P14075	Q9NQZ8	-0.17069
39092	P14075	P17612	-0.22674
39093	P14075	Q96ID5	-0.87849
39094	P14075	P11230	-0.79076
39095	P14075	Q53H47	-0.22447
39096	P14075	O00421	-1.2165
39097	P14075	Q15394	-1.0674
39098	P14075	P33778	-0.88998
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39100	P14075	P36508	-0.16256
39101	P14075	Q14952	-1.0458
39102	P14075	Q7L1S5	-0.74692
39103	P14075	Q9BSJ1	-0.73967
39104	P14075	Q01804	-0.16078
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39106	P14075	P54315	-1.0185
39107	P14075	Q92636	-0.22746
39108	P14075	Q68CR1	-0.86584
39109	P14075	P22830	-0.10656
39110	P14075	O15021	-0.87005
39111	P14075	O75880	-0.34951
39112	P14075	O75333	-0.45309
39113	P14075	A6NGE4	-0.22749
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39115	P14075	Q9NZN5	-0.33885
39116	P14075	P49642	-0.26528
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39118	P14075	Q05209	-0.38755
39119	P14075	Q8NHK3	-0.93628
39120	P14075	Q9UBP4	-0.83187
39121	P14075	Q6NTF9	-0.89011
39122	P14075	Q01415	-0.60978
39123	P14075	Q9UN42	-0.3495
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39127	P14075	P23276	-0.63242
39128	P14075	Q92521	-0.77893
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39131	P14075	Q6ZLNQ3	-0.22799
39132	P14075	P03905	-0.56297
39133	P14075	Q6ZMW2	-0.21172
39134	P14075	Q13608	-0.27183
39135	P14075	Q6PIF6	-0.80413
39136	P14075	P13674	-0.53261
39137	P14075	Q9H0K4	-0.66064
39138	P14075	Q15432	-1.0035
39139	P14075	Q8WUD6	-0.58891
39140	P14075	P04275	-0.2274



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39142	P14075	P15018	-0.36767
39143	P14075	P60880	-0.21358
39144	P14075	P62158	-0.22727
39145	P14075	Q29865	-0.88446
39146	P14075	Q0P6D2	-0.93931
39147	P14075	Q0D2H9	-0.35868
39148	P14075	Q8WYA0	-0.54093
39149	P14075	Q8N2U0	-0.86584
39150	P14075	Q9UM47	-0.2298
39151	P14075	Q70UQ0	-0.37194
39152	P14075	P48436	-0.27609
39153	P14075	P30685	-0.88446
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39157	P14075	P19320	-0.60997
39158	P14075	Q07954	-0.36242
39159	P14075	Q9UIF3	-0.12173
39160	P14075	P41968	-0.80036
39161	P14075	O60911	-0.48594
39162	P14075	Q6L9W6	-0.69611
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39165	P14075	Q9H3N8	-1.1023
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39171	P14075	Q71H61	-0.84057
39172	P14075	Q6V0L0	-0.79339
39173	P14075	Q96HV5	-0.86584
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39176	P14075	Q8TDV2	-1.1721
39177	P14075	Q9NSY1	-0.57907
39178	P14075	Q96HD1	-0.90919
39179	P14075	Q68D20	-0.40508
39180	P14075	Q9BTX7	-0.64958
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39189	P14075	P09211	-0.22092
39190	P14075	Q9UHH9	-0.47362
39191	P14075	Q8NEZ3	-0.41192
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39193	P14075	Q8IY33	-0.38972
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39195	P14075	Q8N4N3	-0.43639
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39197	P14075	Q99626	-0.22806
39198	P14075	O94910	-0.757
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39204	P14075	O95897	-0.87849
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39206	P14075	P01111	-0.6003
39207	P14075	P50150	-0.59994
39208	P14075	Q8NGD2	-1.1027
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39212	P14075	Q96I76	-0.3991
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39214	P14075	Q9NRP7	-0.263
39215	P14075	Q00G26	-0.42327
39216	P14075	O95750	-0.27963

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39218	P14075	P01891	-0.7844
39219	P14075	Q6J4K2	-0.959
39220	P14075	Q7Z6R9	-0.20307
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39223	P14075	Q96FB5	-0.79048
39224	P14075	O94759	-0.89164
39225	P14075	Q9BR77	-0.3067
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39236	P14075	Q96T54	-1.0473
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39244	P14075	P01011	-0.29566
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39249	P14075	P84077	-0.22788
39250	P14075	Q8IVW4	-0.4766
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39252	P14075	O60840	-0.82958
39253	P14075	P01769	-0.97479
39254	P14075	Q96MX6	-0.42131
39255	P14075	O15392	-0.21498
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39257	P14075	P24347	-1.3093
39258	P14075	Q7Z5Y6	-0.83739
39259	P14075	O75319	-0.8316
39260	P14075	Q8TDV0	-1.1721
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39262	P14075	P17509	-0.22082
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39264	P14075	Q16363	-1.0577
39265	P14075	Q5EG05	-0.66583
39266	P14075	Q08209	-0.18824
39267	P14075	O75015	-0.9774
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39275	P14075	Q8NBQ5	-1.0446
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39285	P14075	Q7LG56	-0.10275
39286	P14075	Q6UWW9	-0.86584
39287	P14075	Q9H4Q4	-0.26169
39288	P14075	Q6ZN80	-0.45527
39289	P14075	Q8IYJ0	-0.86584
39290	P14075	Q15858	-0.90183
39291	P14075	Q494W8	-0.87307
39292	P14075	Q9BX59	-0.99793

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39294	P14075	P42830	-0.92868
39295	P14075	Q86W24	-1.0192
39296	P14075	Q9BRT8	-0.79654
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39298	P14075	Q96CP7	-0.86584
39299	P14075	Q7L5Y1	-0.27344
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39311	P14075	Q969V1	-1.1721
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39318	P14075	Q86X27	-0.84229
39319	P14075	Q9H1K6	-0.031059
39320	P14075	Q92888	-0.34989
39321	P14075	Q9BXS4	-0.69876
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39323	P14075	Q9ULT0	-0.3785
39324	P14075	P09651	-0.2535
39325	P14075	P0C7N1	-1.1027
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39327	P14075	O94808	-0.19385
39328	P14075	Q0P5N6	-1.2555
39329	P14075	Q9NX01	-0.15928
39330	P14075	O75344	-0.54973
39331	P14075	Q53RY4	-0.86584
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39336	P14075	Q5KU26	-0.63189
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39339	P14075	P05305	-0.27337
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39345	P14075	P61086	-0.43575
39346	P14075	Q96QV6	-0.88998
39347	P14075	Q9NW75	-0.48135
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39351	P14075	P43220	-0.61213
39352	P14075	O94844	-1.1939
39353	P14075	Q9UJT1	-0.37941
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39355	P14075	O60806	-0.37484
39356	P14075	Q14246	-1.3925
39357	P14075	P29377	-0.47091
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39368	P14075	A8MYJ7	-0.1688

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39370	P14075	Q9NP84	-0.52929
39371	P14075	Q92504	-0.9381
39372	P14075	P21333	-0.22803
39373	P14075	Q6UY13	-0.87849
39374	P14075	P40123	-0.59599
39375	P14075	Q8NFS9	-0.70373
39376	P14075	Q9NR30	-0.49836
39377	P14075	P08590	-0.43914
39378	P14075	Q30KP9	-0.84399
39379	P14075	A4IF30	-0.85789
39380	P14075	Q9Y575	-0.62076
39381	P14075	Q9Y2Z9	-0.61707
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39383	P14075	Q8TDG2	-0.30492
39384	P14075	P07099	-0.87824
39385	P14075	Q8TEA7	-0.98704
39386	P14075	Q95365	-0.88446
39387	P14075	P27037	-0.30844
39388	P14075	Q68CJ6	-0.51014
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39397	P14075	Q9BSW7	-0.49325
39398	P14075	P48065	-0.9674
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39401	P14075	Q685J3	-0.58126
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39404	P14075	P14616	-1.0618
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39413	P14075	Q8WZA6	-1.1027
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39425	P14075	Q9H2W2	-0.22298
39426	P14075	Q01629	-0.76864
39427	P14075	Q9NWH9	-0.22814
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39435	P14075	Q7Z736	-0.66252
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39437	P14075	O75179	-0.22751
39438	P14075	Q96P65	-1.143
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39441	P14075	O75781	-0.23554
39442	P14075	Q5TYW1	-0.21172
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39444	P14075	P06401	-0.22742

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39447	P14075	Q9UL59	-0.21172
39448	P14075	Q5ST30	-0.27312
39449	P14075	Q9H8P0	-0.64618
39450	P14075	Q9H114	-0.89477
39451	P14075	P0CB48	-0.33321
39452	P14075	P55160	-0.33199
39453	P14075	O60384	-0.51948
39454	P14075	P13762	-0.67577
39455	P14075	Q9UBU3	-0.32397
39456	P14075	Q6PJ69	-0.73967
39457	P14075	Q9H3S4	-0.44193
39458	P14075	Q9H6D3	-0.86584
39459	P14075	Q86X67	-0.30367
39460	P14075	Q9NZ72	-0.19831
39461	P14075	Q8IVW6	-0.20937
39462	P14075	Q9H5V8	-1.2762
39463	P14075	Q8NC24	-0.97714
39464	P14075	Q7Z3B0	-0.86584
39465	P14075	Q8NGJ0	-1.1027
39466	P14075	Q9Y585	-1.1027
39467	P14075	Q8NCT1	-0.576
39468	P14075	P51570	-0.44051
39469	P14075	P02458	-0.57368
39470	P14075	Q9H987	-0.39786
39471	P14075	Q6NT16	-0.8419
39472	P14075	P01713	-0.97479
39473	P14075	Q96JQ2	-0.74698
39474	P14075	P98173	-0.54538
39475	P14075	Q8WV41	-0.22741
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39477	P14075	P23510	-0.42245
39478	P14075	P33763	-0.36869
39479	P14075	Q7L945	-0.21172
39480	P14075	A6NJS3	-0.87849
39481	P14075	Q5VXT5	-0.85176
39482	P14075	P46736	-0.24737
39483	P14075	Q14141	-0.22073
39484	P14075	P06126	-0.52623
39485	P14075	A6NGB7	-0.86584
39486	P14075	Q13190	-0.20941
39487	P14075	Q8TD47	-0.16176
39488	P14075	Q4QY38	-0.84399
39489	P14075	Q92565	-0.4947
39490	P14075	Q8NDV1	-0.65995
39491	P14075	Q9ULH0	-0.67044
39492	P14075	Q5NDL2	-0.41678
39493	P14075	Q9NW61	-0.5353
39494	P14075	P0CB38	-0.84005
39495	P14075	Q5VVJ2	-0.22738
39496	P14075	Q93099	-0.46405
39497	P14075	P78381	-0.39119
39498	P14075	Q9H210	-1.1027
39499	P14075	Q08397	-1.059
39500	P14075	Q9H4I9	-0.74159
39501	P14075	Q96R08	-1.1027
39502	P14075	Q96PD5	-0.85601
39503	P14075	Q9BZF2	-0.80455
39504	P14075	Q96Q27	-0.73205
39505	P14075	Q9H4B4	-0.22742
39506	P14075	Q9Y5H5	-1.1297
39507	P14075	Q6SZW1	-0.61334
39508	P14075	Q4VNC0	-0.91999
39509	P14075	A6NMX2	-0.18507
39510	P14075	Q8WVV5	-0.80748
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39512	P14075	Q02224	-0.24342
39513	P14075	Q6XZB0	-1.0637
39514	P14075	Q9NQ35	-0.55277
39515	P14075	P41180	-0.72562
39516	P14075	Q9NPH3	-1.4284
39517	P14075	Q10469	-0.68916
39518	P14075	Q9NPZ5	-0.56395
39519	P14075	O14654	-0.81807
39520	P14075	O75431	-0.23385

39521	P14075	Q9NYW2	-0.97792
39522	P14075	O75505	-0.2208
39523	P14075	P17039	-0.21172
39524	P14075	Q9Y2U2	-1.0473
39525	P14075	Q5VSY0	-0.49482
39526	P14075	Q2VIQ3	-0.29701
39527	P14075	Q9UK53	-0.22426
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39529	P14075	Q01970	-0.49089
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39535	P14075	P21453	-0.75297
39536	P14075	Q8NER1	-0.99986
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39538	P14075	Q96LR5	-0.60712
39539	P14075	Q01469	-0.19191
39540	P14075	Q86WS3	-0.87849
39541	P14075	A6NI15	-0.22741
39542	P14075	Q8IUS5	-0.97121
39543	P14075	Q9ULU8	-0.041243
39544	P14075	Q8NCG5	-0.62276
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39547	P14075	Q8WV28	-0.2274
39548	P14075	Q8TAU0	-0.2275
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39550	P14075	P16284	-0.46281
39551	P14075	Q6H8Q1	-0.2283
39552	P14075	Q86TX2	-0.0766
39553	P14075	P57052	-0.61385
39554	P14075	P48443	-0.2276
39555	P14075	Q9BZ72	-1.3237
39556	P14075	P22492	-1.0589
39557	P14075	P32239	-0.58221
39558	P14075	Q9UQ16	-0.23059
39559	P14075	Q8N755	-0.86584
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39561	P14075	P37288	-0.42717
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39563	P14075	Q1HG43	-0.75204
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39565	P14075	Q96RR1	-0.26081
39566	P14075	Q9UL19	-0.48875
39567	P14075	O75022	-0.61082
39568	P14075	Q6UY11	-0.91803
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39574	P14075	P23743	-0.88724
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39579	P14075	P11509	-0.66984
39580	P14075	Q6PDB4	-0.39217
39581	P14075	Q9P283	-0.92565
39582	P14075	P80419	-0.88984
39583	P14075	Q9NUQ2	-0.63146
39584	P14075	Q6DJT9	-0.19762
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39598	P14075	Q6ZSS3	-0.21172
39599	P14075	Q9UIE0	-0.21172
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39636	P14075	Q96KA5	-0.84589
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39654	P14075	Q9Y4L5	-0.22995
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39656	P14075	Q7Z444	-1.1897
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39684	P14075	Q6P5W5	-0.77262
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39713	P14075	Q96C00	-0.22738
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39715	P14075	Q70JA7	-0.5004
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39722	P14075	Q9Y4F9	-0.47954
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39794	P14075	Q5VYS8	-0.45262
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39906	P14075	P26992	-0.48477
39907	P14075	Q8NCY6	-0.21602
39908	P14075	Q86UQ5	-0.86584
39909	P14075	P49862	-1.2357
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39913	P14075	O00203	-0.21511
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39915	P14075	P01763	-0.97479
39916	P14075	Q13507	-0.45789
39917	P14075	Q9NSV4	-0.27764
39918	P14075	P18089	-0.52388
39919	P14075	Q6PP77	-0.93628
39920	P14075	P05111	-0.4204
39921	P14075	Q8N628	-1.1027
39922	P14075	P56746	-0.64451
39923	P14075	P51911	-0.45622
39924	P14075	Q9Y3R0	-0.32139
39925	P14075	Q9UQG0	-0.43742
39926	P14075	P04209	-0.97479
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39931	P14075	Q13402	-0.19686
39932	P14075	Q9H972	-0.87849
39933	P14075	Q6P3W2	-0.50311
39934	P14075	Q8WZ60	-0.41653
39935	P14075	P36544	-0.66943
39936	P14075	Q8TAK6	-0.22742
39937	P14075	Q9H9B4	-0.77076
39938	P14075	P18428	-0.40083
39939	P14075	Q15614	-1.1027
39940	P14075	Q86UN3	-0.59787
39941	P14075	Q6UB28	-0.55417
39942	P14075	Q6UWI4	-1.0518
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39944	P14075	P28482	-0.22741
39945	P14075	P47893	-1.1745
39946	P14075	Q96HP4	-0.46168
39947	P14075	Q86UE6	-0.66459
39948	P14075	Q6IQ22	-0.75268
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39950	P14075	Q8NGI1	-1.1027
39951	P14075	O94806	-0.22735
39952	P14075	Q63ZE4	-0.78973
39953	P14075	P16671	-0.4136
39954	P14075	O75356	-0.31749
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39963	P14075	P01374	-0.65846
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39965	P14075	Q8NGL6	-1.1027
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39975	P14075	Q5K131	-0.29487
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39979	P14075	Q6KC79	-0.17018
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39981	P14075	Q96F05	-0.86584
39982	P14075	O60565	-0.20557
39983	P14075	P35219	-0.35206
39984	P14075	Q30KQ9	-0.84399
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40025	P14075	Q96EF0	-0.58187
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40044	P14075	Q9BWV2	-1.0387
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40326	P14075	Q8N8C0	-0.21172
40327	P14075	P16050	-0.21877
40328	P14075	Q9BX63	-0.57351
40329	P14075	Q9H342	-1.1027
40330	P14075	Q96ND0	-0.74159
40331	P14075	Q6ZNJ1	-0.43583
40332	P14075	Q8NBJ7	-0.43541
40333	P14075	Q92185	-0.51011
40334	P14075	Q7RTX8	-0.085687
40335	P14075	Q96S79	-1.1317
40336	P14075	Q9Y620	-0.47915
40337	P14075	Q5TGU0	-0.92824
40338	P14075	O43895	-0.83312
40339	P14075	Q6VAB6	-0.52202
40340	P14075	Q14728	-0.79577
40341	P14075	Q3ZCQ8	-0.07777
40342	P14075	P78414	-0.22919
40343	P14075	Q8IUE1	-0.23043
40344	P14075	O60662	-0.21802
40345	P14075	Q6UX27	-0.86584
40346	P14075	P48029	-0.62041
40347	P14075	P05362	-0.38282
40348	P14075	Q8NGH6	-1.1027
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40350	P14075	Q92832	-0.22743
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40353	P14075	Q8WZA0	-0.50019
40354	P14075	Q8TAS1	-0.22741
40355	P14075	Q8TBZ3	-0.22744
40356	P14075	Q6UY01	-0.22741



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40358	P14075	Q13733	-0.96253
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40360	P14075	Q15303	-1.0938
40361	P14075	Q95196	-0.57923
40362	P14075	Q9UGF5	-1.1027
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40367	P14075	Q9UIU6	-0.22745
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40369	P14075	Q9UIA0	-0.71889
40370	P14075	Q8N392	-1.052
40371	P14075	Q53H76	-0.92109
40372	P14075	Q8NGK5	-1.1027
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40403	P14075	Q15160	-0.076981
40404	P14075	Q00423	-0.23432
40405	P14075	Q9BVC4	-0.22744
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40407	P14075	Q96EG3	-0.21172
40408	P14075	Q8WWW0	-0.22741
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40419	P14075	P36952	-0.12723
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40430	P14075	Q5SY16	-0.47156
40431	P14075	Q9NXI6	-0.92811
40432	P14075	Q8TDC3	-0.50926

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40439	P14075	Q9UKJ1	-0.72983
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40442	P14075	Q6E0U4	-0.91732
40443	P14075	Q9BUD6	-1.0341
40444	P14075	P42345	-0.26626
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40461	P14075	Q6UY09	-0.86584
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40465	P14075	Q43827	-1.0709
40466	P14075	Q8N6M5	-0.39579
40467	P14075	B2RNN3	-0.92264
40468	P14075	Q3V5L5	-0.72199
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40491	P14075	O60320	-0.86584
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40496	P14075	Q70E73	-0.7491
40497	P14075	Q9NQ30	-0.74584
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40499	P14075	Q43818	-0.22996
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40525	P14075	Q9HAB3	-1.0026
40526	P14075	Q9UGI6	-0.8154
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40529	P14075	Q8IUN9	-0.9384
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40531	P14075	Q86SM8	-1.1721
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40533	P14075	Q9Y5K2	-1.2961
40534	P14075	P50336	-0.53236
40535	P14075	A6NH57	-1.2555
40536	P14075	Q7Z2D5	-0.96323
40537	P14075	Q8TF64	-0.22474
40538	P14075	Q96MV1	-0.52887
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40543	P14075	Q16774	-0.55243
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40548	P14075	Q8NFJ8	-0.22741
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40552	P14075	Q8N9W7	-0.86584
40553	P14075	Q9UPQ7	-0.63753
40554	P14075	P07910	-0.22745
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40556	P14075	Q8NGS6	-1.1027
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40559	P14075	Q8N9M5	-0.57862
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40568	P14075	Q9UBE0	-0.22375
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40573	P14075	Q17RF5	-0.87849
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40575	P14075	Q8N6P7	-0.77832
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40579	P14075	P10147	-0.44431
40580	P14075	Q95237	-0.64629
40581	P14075	P07101	-0.21843
40582	P14075	Q8N335	-0.21479
40583	P14075	Q8N9B8	-0.75221
40584	P14075	Q9BZE3	-0.22719

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40586	P14075	Q7Z2Y5	-0.86132
40587	P14075	O14977	-0.35748
40588	P14075	Q86VE9	-0.79174
40589	P14075	Q5SWX8	-0.99512
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40594	P14075	A8MQ14	-0.21172
40595	P14075	Q8WWN9	-0.5683
40596	P14075	O43889	-0.39499
40597	P14075	Q32P44	-0.31084
40598	P14075	Q15661	-0.83061
40599	P14075	Q9BWG4	-0.30015
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40741	P14075	Q9NQ03	-0.2016
40742	P14075	P49286	-1.1981
40743	P14075	Q9HBW1	-0.75156
40744	P14075	P31152	-0.43745
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40746	P14075	Q9UL63	-0.4315
40747	P14075	Q8N2A8	-0.63159
40748	P14075	Q9NR90	-0.72639
40749	P14075	Q8IWR0	-0.50622
40750	P14075	P28039	-0.92006
40751	P14075	O75409	-0.5307
40752	P14075	P17568	-0.21142
40753	P14075	Q9Y4F3	-0.72816
40754	P14075	Q4VNC1	-0.91999
40755	P14075	Q6UW68	-0.86584
40756	P14075	Q9NY65	-0.59955
40757	P14075	Q9UGP5	-0.43299
40758	P14075	Q86XK7	-0.86584
40759	P14075	Q9H8L6	-0.46489
40760	P14075	Q96PL5	-0.75967
40761	P14075	Q96LP6	-0.029831
40762	P14075	Q96A65	-0.17552
40763	P14075	P52926	-0.078438
40764	P14075	P20273	-0.70532
40765	P14075	Q6IAA8	-0.36791
40766	P14075	Q9Y5H0	-1.1297
40767	P14075	Q12999	-0.90987
40768	P14075	O43521	-0.20817
40769	P14075	Q58FF3	-0.39456
40770	P14075	Q5VT25	-0.22752
40771	P14075	Q9NPQ8	-0.5795
40772	P14075	Q6IFN5	-1.1027
40773	P14075	Q9Y6R1	-0.53667
40774	P14075	Q96LT4	-0.68814
40775	P14075	P30559	-0.78182
40776	P14075	Q8NEG7	-0.43363
40777	P14075	P02818	-0.52423
40778	P14075	Q86XR5	-0.7327
40779	P14075	Q7Z7D3	-0.95902
40780	P14075	Q8NFT2	-0.96438
40781	P14075	Q8WXF7	-0.55033
40782	P14075	P41231	-0.71405
40783	P14075	Q9NR23	-0.72561
40784	P14075	P61803	-0.73052
40785	P14075	O94941	-0.26443
40786	P14075	P48960	-1.5486
40787	P14075	Q5T1B0	-0.055526
40788	P14075	Q99439	-0.24967
40789	P14075	O00222	-1.0932
40790	P14075	Q8N148	-1.1027
40791	P14075	Q8TD22	-0.83432
40792	P14075	Q9NPB1	-0.56599
40793	P14075	P47804	-0.81101
40794	P14075	P49771	-1.2329
40795	P14075	Q96IS3	-0.20018
40796	P14075	Q8TC12	-1.0839
40797	P14075	Q5T890	-0.43778
40798	P14075	Q9Y2H9	-0.40235
40799	P14075	Q8WU10	-0.59308
40800	P14075	P14555	-0.7612
40801	P14075	Q8TF50	-0.21172
40802	P14075	P00533	-0.29252
40803	P14075	Q9BY43	-0.27731
40804	P14075	P13945	-0.43194
40805	P14075	O76001	-1.1027
40806	P14075	Q8NGE7	-1.1027
40807	P14075	O15212	-0.40269
40808	P14075	Q9P1W3	-0.86584
40809	P14075	P10620	-0.22412
40810	P14075	Q96CX3	-0.21172
40811	P14075	P35998	-0.30266
40812	P14075	Q9H422	-0.22768

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40814	P14075	Q8IWU5	-0.51353
40815	P14075	P02100	-0.33557
40816	P14075	P61073	-0.3305
40817	P14075	Q9NSY2	-0.50535
40818	P14075	Q9UGM1	-0.83415
40819	P14075	Q96RL6	-1.0093
40820	P14075	O15431	-1.0414
40821	P14075	Q86VY9	-0.86584
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40823	P14075	Q9UN75	-1.1297
40824	P14075	O43315	-0.58528
40825	P14075	Q9Y5Q5	-1.3141
40826	P14075	Q9H324	-0.46153
40827	P14075	Q8N8Y5	-0.556
40828	P14075	P29353	-0.22741
40829	P14075	P29320	-0.7632
40830	P14075	Q9UDW3	-0.18083
40831	P14075	Q9H1V8	-0.74356
40832	P14075	O60741	-1.0828
40833	P14075	Q8TF17	-0.53115
40834	P14075	Q13637	-0.79259
40835	P14075	Q95995	-0.29655
40836	P14075	Q8N9V3	-0.45235
40837	P14075	Q9H222	-0.55441
40838	P14075	P16860	-0.49898
40839	P14075	O75054	-0.86584
40840	P14075	Q9BSH3	-0.22463
40841	P14075	Q96BR9	-0.22123
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40843	P14075	Q5XPI4	-0.4367
40844	P14075	Q9HCJ6	-0.95104
40845	P14075	P27824	-0.28537
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40847	P14075	Q14534	-1.0167
40848	P14075	O75594	-0.69841
40849	P14075	P98172	-0.16453
40850	P14075	Q92737	-0.81234
40851	P14075	Q92551	-0.33935
40852	P14075	O75159	-0.22738
40853	P14075	Q8NH67	-1.1027
40854	P14075	P28330	-0.33687
40855	P14075	Q9UJQ4	-0.1834
40856	P14075	P63121	-0.67565
40857	P14075	O43597	-0.15373
40858	P14075	F5H4A9	-0.86584
40859	P14075	P42680	-0.88738
40860	P14075	Q9P0W8	-0.64708
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40862	P14075	O60281	-0.22741
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40864	P14075	Q9NUJ7	-0.6447
40865	P14075	Q9H7C9	-0.23711
40866	P14075	Q6UY14	-0.31916
40867	P14075	Q6ZRY4	-0.81148
40868	P14075	Q9NZQ7	-0.60823
40869	P14075	Q86XD8	-0.52332
40870	P14075	Q9UQ52	-0.63282
40871	P14075	Q9H7M9	-0.86584
40872	P14075	Q92608	-0.31594
40873	P14075	Q96GJ1	-0.22317
40874	P14075	Q5T6L9	-0.86584
40875	P14075	Q86Y22	-1.1319
40876	P14075	Q92611	-0.31646
40877	P14075	Q96SE0	-0.58105
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40879	P14075	Q96HH4	-0.86584
40880	P14075	P28472	-0.90218
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40882	P14075	P21291	-0.29787
40883	P14075	Q969M7	-0.22388
40884	P14075	A6NM45	-0.66509
40885	P14075	Q5TFE4	-0.43358
40886	P14075	O60733	-0.2274
40887	P14075	O95399	-0.61607
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40893	P14075	P21695	-0.083697
40894	P14075	Q0P5P2	-0.87849
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40897	P14075	Q9UHQ4	-0.6068
40898	P14075	P19237	-0.46134
40899	P14075	Q9NYP7	-0.15467
40900	P14075	Q6P2S7	-0.29487
40901	P14075	Q4G0J3	-0.22722
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40903	P14075	P20333	-0.64015
40904	P14075	Q9UNW9	-0.24856
40905	P14075	Q8IU85	-0.55244
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40907	P14075	Q96II8	-0.87849
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40911	P14075	Q43524	-0.31899
40912	P14075	Q6S8J3	-0.436
40913	P14075	O15079	-0.5017
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40916	P14075	Q43680	-0.22764
40917	P14075	P01706	-0.97479
40918	P14075	Q1MX18	-0.43486
40919	P14075	Q9UKG1	-0.22399
40920	P14075	Q9P255	-0.21172
40921	P14075	A8MY62	-0.063727
40922	P14075	Q9Y5Y5	-0.43157
40923	P14075	A8MT70	-0.73967
40924	P14075	P51798	-0.94256
40925	P14075	Q9Y4K3	-0.22728
40926	P14075	Q9UPT6	-0.22596
40927	P14075	P40938	-0.20515
40928	P14075	Q8NCU8	-0.86584
40929	P14075	Q9H205	-1.1027
40930	P14075	Q96HZ4	-0.22658
40931	P14075	Q9Y5E9	-1.1238
40932	P14075	Q9HB90	-0.7407
40933	P14075	O15240	-0.5693
40934	P14075	Q9H9P5	-0.22739
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40937	P14075	P34810	-0.87978
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40941	P14075	Q9H497	-0.59428
40942	P14075	Q96TA0	-1.1297
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40944	P14075	Q9H1E1	-0.67659
40945	P14075	Q9GZZ0	-0.2274
40946	P14075	Q9Y5Z7	-0.22741
40947	P14075	P56975	-1.1235
40948	P14075	Q2TAA5	-0.80366
40949	P14075	Q8IUB5	-0.79897
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40952	P14075	P45379	-0.45593
40953	P14075	Q8IYS2	-0.86584
40954	P14075	P19652	-0.8489
40955	P14075	Q96JN8	-0.20625
40956	P14075	O14939	-0.2209
40957	P14075	Q14195	-0.22914
40958	P14075	Q8NBF1	-0.22717
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40960	P14075	Q9H6L5	-0.75911
40961	P14075	Q8NH42	-1.1027
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40963	P14075	P20061	-0.87957
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40965	P14075	Q8NGN4	-1.1027
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40967	P14075	Q7Z6W7	-0.48297
40968	P14075	Q8TCX1	-0.32747
40969	P14075	P20800	-0.55216
40970	P14075	Q96P48	-0.45259
40971	P14075	P07951	-0.52099
40972	P14075	Q6PKC3	-0.94864
40973	P14075	O14607	-0.49674
40974	P14075	P48167	-0.45462
40975	P14075	P61769	-0.46461
40976	P14075	P78363	-1.0187
40977	P14075	Q9NXD2	-0.63886
40978	P14075	P10398	-0.25225
40979	P14075	Q8NGI9	-1.1027
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40981	P14075	Q96RQ3	-0.67436
40982	P14075	Q86TI2	-0.54773
40983	P14075	Q92698	-0.20421
40984	P14075	P11234	-0.27693
40985	P14075	Q7Z2Y8	-0.50082
40986	P14075	Q0VAF6	-0.44272
40987	P14075	O60879	-0.27718
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40992	P14075	Q99581	-0.17633
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40994	P14075	Q14242	-0.65336
40995	P14075	O75298	-0.47593
40996	P14075	P49590	-0.20822
40997	P14075	O75762	-0.83942
40998	P14075	Q14236	-0.54588
40999	P14075	P0CJ78	-0.21172
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41006	P14075	Q8N387	-1.2123
41007	P14075	Q00LT1	-0.85146
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41010	P14075	Q9NWU2	-0.21602
41011	P14075	Q13438	-0.15263
41012	P14075	Q14626	-1.0896
41013	P14075	Q9NXT0	-0.21172
41014	P14075	Q9NZA1	-0.286
41015	P14075	Q6ZS27	-0.21172
41016	P14075	P80365	-0.69904
41017	P14075	Q8IVL1	-0.66782
41018	P14075	Q86VF2	-0.2277
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41021	P14075	P80108	-0.4893
41022	P14075	P35749	-0.49732
41023	P14075	O14949	-0.24107
41024	P14075	O75354	-0.95153
41025	P14075	Q6ZVX9	-0.86584
41026	P14075	P55001	-0.81944
41027	P14075	Q56UN5	-0.9088
41028	P14075	O14817	-1.0565
41029	P14075	Q8NGY0	-1.1027
41030	P14075	Q6P587	-0.27559
41031	P14075	Q13873	-0.37457
41032	P14075	P02656	-0.56828
41033	P14075	P18433	-1.208
41034	P14075	Q96EG1	-0.56833
41035	P14075	P49761	-0.55936
41036	P14075	O00533	-1.1599
41037	P14075	P41159	-0.36486
41038	P14075	Q9UM19	-0.66563
41039	P14075	Q7Z3T1	-1.1027
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41041	P14075	Q6XUX3	-0.50914
41042	P14075	O14931	-1.0824
41043	P14075	O60256	-0.40051
41044	P14075	Q8NGP6	-1.1027
41045	P14075	P23677	-0.79701
41046	P14075	Q9UQ74	-0.87849
41047	P14075	P43308	-0.75989
41048	P14075	Q9H6S0	-0.27573
41049	P14075	Q1X8D7	-0.22707
41050	P14075	Q6IPT4	-0.59653
41051	P14075	P28845	-1.0595
41052	P14075	P33991	-0.22143
41053	P14075	Q96NZ9	-0.87849
41054	P14075	Q7Z5N4	-1.0252
41055	P14075	O43915	-0.57906
41056	P14075	P09067	-0.18972
41057	P14075	Q5T2P9	-0.98969
41058	P14075	P59534	-1.0953
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41061	P14075	P57057	-0.74011
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41065	P14075	P53814	-0.43868
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41067	P14075	Q86Y30	-0.87849
41068	P14075	P33032	-0.8173
41069	P14075	Q8N326	-0.86584
41070	P14075	Q15746	-0.44336
41071	P14075	O75096	-0.44395
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41073	P14075	P11498	-0.54654
41074	P14075	P14679	-0.4363
41075	P14075	Q8N4G2	-0.64105
41076	P14075	Q86UQ4	-1.1035
41077	P14075	O60293	-0.09526
41078	P14075	O00175	-0.79598
41079	P14075	O15315	-0.17384
41080	P14075	Q9UBN1	-1.0054
41081	P14075	P0DJ93	-0.86584
41082	P14075	Q9P298	-0.86584
41083	P14075	P49335	-0.22741
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41085	P14075	Q13201	-0.85126
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41088	P14075	Q9HBG7	-0.87723
41089	P14075	Q5SY68	-0.55769
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41091	P14075	O60502	-0.17631
41092	P14075	A6NLI5	-0.73967
41093	P14075	P62807	-0.86926
41094	P14075	Q14554	-0.51956
41095	P14075	Q6A1A2	-0.78989
41096	P14075	Q96Q42	-0.46029
41097	P14075	Q9H0H9	-0.11596
41098	P14075	Q8IZP7	-0.86433
41099	P14075	Q9H293	-0.66973
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41102	P14075	P11686	-0.10162
41103	P14075	P36404	-0.22823
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41107	P14075	Q5TEV5	-0.87849
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41114	P14075	Q8TAZ6	-0.51364
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41118	P14075	A6NHL2	-0.59955
41119	P14075	Q14C86	-0.97503
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41121	P14075	P61106	-0.36632
41122	P14075	D6RBM5	-0.3595
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41125	P14075	O43474	-0.22558
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41127	P14075	Q5HYL7	-0.86584
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41130	P14075	P0CJ89	-0.20043
41131	P14075	Q12934	-0.2637
41132	P14075	Q5BKT4	-0.80436
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41134	P14075	A6NEK1	-0.576
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41136	P14075	Q8TE99	-0.81732
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41139	P14075	Q8TBF2	-0.34049
41140	P14075	Q8N9N7	-0.2359
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41146	P14075	Q8TCD1	-0.62512
41147	P14075	Q8NH83	-1.1027
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41152	P14075	P19623	-0.35185
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41155	P14075	Q92508	-0.89612
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41158	P14075	P50213	-0.081369
41159	P14075	P01744	-0.97479
41160	P14075	Q8TBG9	-0.71609
41161	P14075	Q9UHV8	-0.43656
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41168	P14075	Q76003	-0.22786
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41171	P14075	Q9HCQ5	-0.66473
41172	P14075	Q969M2	-0.85213
41173	P14075	P22894	-1.2481
41174	P14075	Q8NGH9	-1.1027
41175	P14075	Q8IU57	-0.40794
41176	P14075	P16234	-0.24557
41177	P14075	Q8N6C5	-0.52487
41178	P14075	Q93038	-1.1667
41179	P14075	Q9NYW6	-1.0427
41180	P14075	Q8TD30	-0.26346
41181	P14075	Q14625	-1.0531
41182	P14075	Q14590	-0.21172
41183	P14075	P25067	-1.0327
41184	P14075	P41229	-0.45263
41185	P14075	Q6ZVS6	-0.87849
41186	P14075	P55210	-0.2251
41187	P14075	A6NGW2	-0.87849
41188	P14075	Q9BXI9	-0.97458
41189	P14075	Q6B8I1	-0.90806
41190	P14075	A6NED2	-0.37984
41191	P14075	Q01538	-0.20848
41192	P14075	Q8IWI9	-0.40031

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41196	P14075	O00409	-0.30939
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41198	P14075	Q9UQ13	-0.24064
41199	P14075	Q9NWU1	-0.43805
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41203	P14075	Q9ULT8	-0.37041
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41205	P14075	P41439	-0.83126
41206	P14075	Q15615	-1.1027
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41208	P14075	Q86UR1	-0.22736
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41210	P14075	P09341	-1.0242
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41212	P14075	Q8TF20	-0.21172
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41214	P14075	P78380	-1.246
41215	P14075	Q9UGV2	-0.32071
41216	P14075	Q9Y5A9	-0.41734
41217	P14075	P03951	-0.72056
41218	P14075	P30486	-0.7844
41219	P14075	Q96NL1	-0.88525
41220	P14075	Q13286	-0.17299
41221	P14075	Q14435	-0.29693
41222	P14075	Q9Y6D5	-0.21948
41223	P14075	Q13183	-1.0556
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41228	P14075	Q8N413	-0.7196
41229	P14075	Q75N03	-0.24925
41230	P14075	Q8IUR7	-0.22746
41231	P14075	P29317	-0.48796
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41233	P14075	P05023	-0.42236
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41235	P14075	Q7Z699	-0.2052
41236	P14075	Q9UKH3	-0.5818
41237	P14075	Q5T1H1	-1.0832
41238	P14075	Q8NGX9	-1.1027
41239	P14075	O14494	-0.8024
41240	P14075	P30872	-1.1107
41241	P14075	Q5TIE3	-0.87849
41242	P14075	Q9NXC5	-0.22687
41243	P14075	A0PK00	-0.52887
41244	P14075	Q86WN1	-0.22739
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41247	P14075	Q9ULV4	-0.6709
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41249	P14075	Q3KNW5	-0.92806
41250	P14075	Q96NL3	-0.21172
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41253	P14075	O43609	-0.37912
41254	P14075	O75339	-0.85459
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41273	P14075	P49639	-0.18701
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41413	P14075	A6NN73	-0.35868
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41422	P14075	P10635	-0.4403
41423	P14075	Q96HE8	-0.86584
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42019	P14075	Q6ZMT1	-0.6602
42020	P14075	Q5MNZ6	-0.26238
42021	P14075	Q9BYJ1	-0.59511
42022	P14075	P34897	-0.19454
42023	P14075	Q08378	-0.15344
42024	P14075	Q96FZ5	-0.88766
42025	P14075	P51688	-0.5547
42026	P14075	Q9H892	-0.22462
42027	P14075	P48454	-0.16672
42028	P14075	Q8WVE6	-0.86584

42029	P14075	Q8NBM8	-0.95283
42030	P14075	Q9NRV9	-0.80791
42031	P14075	O95490	-1.0173
42032	P14075	Q53H12	-0.70838
42033	P14075	Q8N127	-1.1027
42034	P14075	Q9NSK7	-0.66679
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42036	P14075	Q8N967	-0.86584
42037	P14075	Q9HBX9	-1.0869
42038	P14075	Q9UJW8	-0.21172
42039	P14075	Q9Y5G1	-1.1297
42040	P14075	O75907	-0.51417
42041	P14075	Q9Y6E2	-0.5199
42042	P14075	A2A2Z9	-0.22738
42043	P14075	Q765I0	-0.85703
42044	P14075	P07451	-0.29832
42045	P14075	Q9NS68	-0.74213
42046	P14075	Q96DC8	-0.54094
42047	P14075	Q2PZI1	-0.86584
42048	P14075	Q9HC57	-0.59316
42049	P14075	Q9Y484	-0.26238
42050	P14075	Q6UXQ4	-0.87849
42051	P14075	Q86WR6	-0.079551
42052	P14075	O14874	-0.21963
42053	P14075	O15554	-0.43997
42054	P14075	Q5W150	-0.093316
42055	P14075	Q8IYB8	-0.22686
42056	P14075	Q13454	-0.77487
42057	P14075	P35558	-0.40617
42058	P14075	Q96JC4	-0.21172
42059	P14075	Q10588	-0.86913
42060	P14075	Q6NYC1	-0.19738
42061	P14075	P30988	-0.6188
42062	P14075	Q6VVB1	-0.22188
42063	P14075	O95104	-0.41191
42064	P14075	Q9GZM8	-0.096167
42065	P14075	Q9BYT1	-0.76074
42066	P14075	Q5W0B7	-0.86584
42067	P14075	Q8NH53	-1.1027
42068	P14075	P36542	-0.21078
42069	P14075	P57053	-0.86926
42070	P14075	O43820	-0.70395
42071	P14075	P84085	-0.30316
42072	P14075	Q92851	-0.22681
42073	P14075	Q96GD4	-0.58674
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42075	P14075	Q8N6G2	-0.12153
42076	P14075	Q9H223	-0.26714
42077	P14075	P23526	-0.14157
42078	P14075	Q8N139	-1.1035
42079	P14075	P34995	-1.1995
42080	P14075	P60985	-0.9248
42081	P14075	Q86Y29	-0.87849
42082	P14075	Q9NWB1	-0.25135
42083	P14075	O14684	-0.73807
42084	P14075	Q96P44	-0.81639
42085	P14075	Q16342	-0.23997
42086	P14075	Q969V4	-0.33477
42087	P14075	P60903	-0.65557
42088	P14075	O60487	-0.45094
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42091	P14075	Q9BRB3	-0.67759
42092	P14075	Q13242	-0.22699
42093	P14075	Q8IXQ5	-0.21296
42094	P14075	Q16538	-1.1721
42095	P14075	Q9NYM9	-0.38185
42096	P14075	Q8NB14	-0.69644
42097	P14075	Q9NPY3	-0.43847
42098	P14075	Q96LA5	-0.8409
42099	P14075	Q16619	-0.53149
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42101	P14075	P24387	-0.33853
42102	P14075	O95825	-0.80044
42103	P14075	Q15389	-0.47091
42104	P14075	A6NL08	-1.1027

42105	P14075	Q7Z713	-0.22741
42106	P14075	Q8TEU7	-0.82893
42107	P14075	Q6UXV1	-0.86584
42108	P14075	Q969T4	-0.35447
42109	P14075	Q96R67	-1.1027
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42112	P14075	O95259	-0.36607
42113	P14075	Q9H4B7	-0.61185
42114	P14075	Q9C0I4	-0.86584
42115	P14075	P23368	-0.73447
42116	P14075	Q8IZS6	-0.24736
42117	P14075	Q8IZE3	-0.22736
42118	P14075	Q96FC9	-0.63276
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42120	P14075	A4D256	-0.94237
42121	P14075	Q9NYS7	-0.62076
42122	P14075	Q8N2I9	-0.22741
42123	P14075	Q9BT30	-0.56922
42124	P14075	O75689	-0.28555
42125	P14075	Q13535	-0.66259
42126	P14075	Q9Y577	-0.22885
42127	P14075	P41235	-0.23661
42128	P14075	Q6DN90	-0.2156
42129	P14075	O43623	-0.21379
42130	P14075	Q15678	-0.72611
42131	P14075	O75317	-0.34182
42132	P14075	Q9BQ16	-0.98221
42133	P14075	O75425	-0.73168
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42137	P14075	Q9ULZ3	-0.17025
42138	P14075	Q9Y5F2	-1.1424
42139	P14075	Q9UQ26	-0.22741
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42141	P14075	Q9Y2F9	-0.22531
42142	P14075	Q9UN76	-0.89018
42143	P14075	Q5VUY2	-0.86431
42144	P14075	Q00887	-0.88363
42145	P14075	P62683	-0.40851
42146	P14075	P31513	-0.83702
42147	P14075	Q96RJ3	-0.72744
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42149	P14075	Q5T6X4	-0.86584
42150	P14075	Q02763	-0.37467
42151	P14075	Q53RE8	-0.22741
42152	P14075	Q96M94	-0.43639
42153	P14075	P30838	-0.36047
42154	P14075	Q5JWF8	-0.096284
42155	P14075	P04798	-0.33072
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42157	P14075	P06681	-1.2771
42158	P14075	Q99518	-0.79333
42159	P14075	Q8N370	-0.94648
42160	P14075	Q9UBR4	-0.22769
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42162	P14075	P09430	-0.62324
42163	P14075	Q29718	-0.88446
42164	P14075	Q9HCZ1	-0.21172
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42166	P14075	Q13491	-0.60248
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42168	P14075	P39905	-0.35623
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42170	P14075	Q9NQX3	-0.64493
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42176	P14075	P78383	-0.84053
42177	P14075	P51172	-0.56725
42178	P14075	P06317	-0.95485
42179	P14075	Q5JT25	-0.92564
42180	P14075	Q8N9N2	-0.21709



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42183	P14075	Q9UMX5	-0.84546
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42185	P14075	O75508	-0.77926
42186	P14075	Q58WW2	-0.22741
42187	P14075	Q92784	-0.2296
42188	P14075	Q9H336	-0.87849
42189	P14075	Q8WXX0	-0.6994
42190	P14075	Q9Y5E6	-1.1424
42191	P14075	P05089	-0.22582
42192	P14075	P41238	-0.093693
42193	P14075	Q6PFW1	-0.24174
42194	P14075	Q86VZ2	-0.28668
42195	P14075	Q95IE3	-0.67577
42196	P14075	O94993	-0.18388
42197	P14075	Q9Y4C8	-0.52711
42198	P14075	O43665	-0.35929
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42202	P14075	Q0P651	-0.87849
42203	P14075	Q8NFX5	-0.40974
42204	P14075	Q9H221	-0.63889
42205	P14075	Q9NWC5	-0.86584
42206	P14075	Q99661	-0.29077
42207	P14075	P63244	-0.22836
42208	P14075	P07108	-0.42894
42209	P14075	Q08881	-0.39271
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42213	P14075	Q00478	-0.86584
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42217	P14075	Q9BYX7	-0.76823
42218	P14075	Q14990	-0.51637
42219	P14075	Q8IV08	-0.44711
42220	P14075	O75752	-0.76224
42221	P14075	Q96DR5	-1.0096
42222	P14075	O43506	-1.0896
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42227	P14075	P01765	-0.97479
42228	P14075	Q92843	-0.22725
42229	P14075	Q5JX69	-0.86584
42230	P14075	Q8N2G6	-0.51948
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42236	P14075	Q9Y6W5	-0.42293
42237	P14075	Q9BZR6	-0.22781
42238	P14075	Q9P0T4	-0.21172
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42242	P14075	Q00258	-0.55207
42243	P14075	Q6ZT12	-0.73228
42244	P14075	Q96JP2	-0.21574
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42246	P14075	Q5TDP6	-0.53197
42247	P14075	P08620	-0.59152
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42249	P14075	O43639	-0.22741
42250	P14075	Q6UWP8	-0.87849
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42265	P14075	P16930	-0.45234
42266	P14075	P16104	-0.30417
42267	P14075	Q15049	-0.20009
42268	P14075	O60243	-0.63507
42269	P14075	Q96F44	-0.35539
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42271	P14075	Q9P0K1	-0.58459
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42279	P14075	Q86YD5	-0.89915
42280	P14075	Q86UN6	-0.34618
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42306	P14075	P05090	-0.53938
42307	P14075	Q9NRB3	-0.48751
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42326	P14075	O95258	-0.81422
42327	P14075	Q96L12	-0.57762
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42341	P14075	Q9NWW5	-0.40823
42342	P14075	Q9NP08	-0.22764
42343	P14075	P04054	-0.50674
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42345	P14075	P51693	-0.24604
42346	P14075	Q7Z434	-0.27696
42347	P14075	O15460	-0.62495
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42349	P14075	Q9NR00	-0.41833
42350	P14075	P61224	-0.23972
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42353	P14075	P53367	-0.17613
42354	P14075	P60022	-0.86514
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42362	P14075	Q99460	-0.11855
42363	P14075	Q9P1C3	-0.87849
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42377	P14075	P11684	-0.66649
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42428	P14075	Q5T4D3	-0.86584
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42866	P14075	Q96PL2	-0.99615
42867	P14075	P36915	-0.71909
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42869	P14075	Q15599	-0.22884
42870	P14075	Q96KC2	-1.2555
42871	P14075	Q8N8P7	-0.87849
42872	P14075	Q00889	-0.76089
42873	P14075	Q96G30	-0.49304
42874	P14075	P80162	-1.0728
42875	P14075	Q96AX2	-0.79601
42876	P14075	P49411	-0.71615
42877	P14075	Q86SJ6	-1.1632
42878	P14075	Q8WXG8	-0.52751
42879	P14075	Q6ZW35	-0.038612
42880	P14075	Q9NYM4	-1.1171
42881	P14075	Q5T5X7	-0.14385
42882	P14075	Q14863	-0.2274
42883	P14075	Q8N2C7	-0.86584
42884	P14075	P0C628	-1.1027
42885	P14075	Q8N2M4	-0.86584
42886	P14075	P20472	-0.44974
42887	P14075	P48547	-0.84843
42888	P14075	Q9NRM7	-0.22741
42889	P14075	P81277	-0.55238
42890	P14075	Q8NFU3	-0.093837
42891	P14075	Q8IXK2	-0.67293
42892	P14075	Q9Y216	-0.58007
42893	P14075	Q5W0Q7	-0.47922
42894	P14075	Q9NP86	-0.40174
42895	P14075	Q8WZ64	-1.0741
42896	P14075	Q15363	-0.19475
42897	P14075	P07686	-0.35642
42898	P14075	Q96DN5	-0.81472
42899	P14075	Q9BXU9	-0.70204
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42901	P14075	O43819	-0.33809
42902	P14075	Q14185	-0.29985
42903	P14075	Q12836	-1.0978
42904	P14075	P13232	-0.095445
42905	P14075	Q9GZU3	-0.86584
42906	P14075	Q13683	-0.70505
42907	P14075	A6NIK2	-0.23055
42908	P14075	P48444	-0.15965
42909	P14075	Q7L576	-0.18629
42910	P14075	Q8IXJ6	-0.23477
42911	P14075	Q5VST6	-0.8359
42912	P14075	A8MQ27	-0.38281
42913	P14075	O75449	-0.22832
42914	P14075	O43314	-0.54012
42915	P14075	P17025	-0.21172
42916	P14075	O75343	-0.77667
42917	P14075	Q3SYB3	-0.31899
42918	P14075	C9JL84	-0.87849
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42920	P14075	Q14766	-0.43972
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42922	P14075	O60315	-0.21442
42923	P14075	O15553	-0.37125
42924	P14075	Q8TBA6	-0.58469
42925	P14075	Q9H6I2	-0.19952
42926	P14075	A6ND91	-0.82356
42927	P14075	Q15063	-1.1707
42928	P14075	Q86UD4	-0.21172
42929	P14075	Q8IW00	-0.93628
42930	P14075	Q86XP1	-0.53547
42931	P14075	Q6UXX5	-0.86584
42932	P14075	P55196	-0.22702
42933	P14075	Q92643	-0.53392
42934	P14075	Q96F10	-0.27132
42935	P14075	P51617	-0.22738
42936	P14075	O75459	-0.43344
42937	P14075	Q68BL8	-0.91497
42938	P14075	Q8WW24	-0.16958
42939	P14075	Q8WXF3	-0.81791
42940	P14075	Q96RC9	-1.1027

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42942	P14075	P55345	-0.22741
42943	P14075	Q05513	-0.22598
42944	P14075	Q86VZ1	-1.124
42945	P14075	P47898	-1.041
42946	P14075	Q7Z429	-0.86584
42947	P14075	Q6ZUI0	-0.29487
42948	P14075	O95214	-0.86584
42949	P14075	Q7Z410	-1.3271
42950	P14075	P57739	-0.65088
42951	P14075	Q76B58	-0.63156
42952	P14075	O75509	-0.24838
42953	P14075	Q9P2G9	-0.21344
42954	P14075	Q96P16	-0.4263
42955	P14075	Q92506	-0.30671
42956	P14075	Q9UJA2	-0.57043
42957	P14075	Q9BRL6	-0.59537
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42959	P14075	Q8TE73	-0.51695
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42961	P14075	Q7Z7M0	-0.22741
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42963	P14075	Q75398	-0.21871
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42966	P14075	Q6VB84	-0.31899
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42968	P14075	P27216	-0.67336
42969	P14075	Q9NU02	-0.52751
42970	P14075	Q9BXJ7	-0.90235
42971	P14075	Q9NYT6	-0.21172
42972	P14075	P42857	-0.36478
42973	P14075	Q8NBP5	-0.87101
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42982	P14075	Q8NEB5	-0.77446
42983	P14075	Q6UWF7	-0.87849
42984	P14075	Q9NXH8	-1.163
42985	P14075	Q99805	-0.87857
42986	P14075	Q9BTE1	-0.10805
42987	P14075	Q9BWM5	-0.21172
42988	P14075	Q9ULC8	-0.74135
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42991	P14075	Q9ULI1	-0.22741
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42993	P14075	Q8NH89	-1.1027
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42995	P14075	Q8NH90	-1.1027
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42997	P14075	Q15056	-0.22692
42998	P14075	Q9H0M0	-0.22741
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43016	P14075	Q9BT73	-0.084845

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43027	P14075	Q5QFB9	-0.93931
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43037	P14075	Q95445	-0.8329
43038	P14075	P19784	-0.23499
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43040	P14075	P0CI26	-0.73967
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43042	P14075	Q8IV31	-0.86584
43043	P14075	Q9UN88	-0.86216
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43068	P14075	Q8NGV5	-1.1027
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43070	P14075	Q8IZU9	-0.71014
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43289	P14075	Q9UM01	-0.94159
43290	P14075	Q2VY69	-0.21172
43291	P14075	Q8IY50	-0.85789
43292	P14075	P43681	-0.65732
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43294	P14075	P04201	-0.70133
43295	P14075	Q8WUD1	-0.78574
43296	P14075	Q3BBW0	-0.29487
43297	P14075	Q9Y661	-1.0012
43298	P14075	P43116	-1.1538
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43302	P14075	Q504Q3	-0.071425
43303	P14075	Q86U38	-0.18941
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43305	P14075	P25116	-0.38119
43306	P14075	Q14524	-0.34057
43307	P14075	Q5VZV1	-0.37739
43308	P14075	P52272	-0.2173
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43318	P14075	Q9Y258	-0.92322
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43325	P14075	Q8NGN6	-1.1027
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43327	P14075	Q96QI5	-0.52862
43328	P14075	Q15771	-0.99778
43329	P14075	Q9NQS3	-0.37951
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43335	P14075	P52732	-0.27524
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43337	P14075	Q9H201	-0.11666
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43339	P14075	Q86Y07	-0.28963
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43350	P14075	Q92615	-0.84005
43351	P14075	P32004	-0.55367
43352	P14075	Q96KN3	-0.32519
43353	P14075	P05546	-0.68219
43354	P14075	Q8N394	-0.85795
43355	P14075	Q6PJW8	-0.21513
43356	P14075	Q86T26	-1.568
43357	P14075	Q9H4E7	-0.22741
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43362	P14075	Q9Y561	-0.58262
43363	P14075	Q8N100	-0.22814
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43371	P14075	Q9UH36	-0.45908
43372	P14075	Q8IW70	-0.86584
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43381	P14075	Q15034	-0.42158
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43383	P14075	Q5U5Z8	-0.56582
43384	P14075	Q5SQ64	-0.93628
43385	P14075	Q7Z6I8	-0.00843
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43387	P14075	Q15072	-1.149
43388	P14075	Q02742	-0.61772
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43530	P14075	Q96LM6	-0.21602
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43711	P14075	A2VCL2	-0.14391
43712	P14075	P00451	-0.48834
43713	P14075	Q13395	-0.076886
43714	P14075	Q9NX09	-0.35636
43715	P14075	Q8WWI1	-0.22722
43716	P14075	Q8IZL9	-0.077995
43717	P14075	Q96JP0	-0.29946
43718	P14075	P01825	-0.97479
43719	P14075	Q68D51	-0.43363
43720	P14075	P25105	-0.85855
43721	P14075	Q7Z3J3	-0.53439
43722	P14075	Q5U5Q3	-0.23772
43723	P14075	Q5VZI3	-0.86584
43724	P14075	P15918	-0.22686
43725	P14075	Q69YQ0	-0.22744
43726	P14075	P46089	-1.2395
43727	P14075	P04080	-0.16179
43728	P14075	Q96K80	-0.19894
43729	P14075	Q9Y3Z3	-0.13735
43730	P14075	Q13247	-0.22719
43731	P14075	Q9BT56	-0.48634
43732	P14075	Q96JG8	-0.11752
43733	P14075	Q07343	-0.2228
43734	P14075	Q9NXC2	-1.382
43735	P14075	P17987	-0.062299
43736	P14075	Q6ZW05	-0.51963
43737	P14075	Q9BQ13	-0.19405
43738	P14075	Q9Y4I1	-0.3028
43739	P14075	Q8NGZ9	-1.1027
43740	P14075	O76082	-0.36387
43741	P14075	Q8TDE3	-0.76271
43742	P14075	Q9Y5E7	-1.1424
43743	P14075	Q96MW5	-0.21338
43744	P14075	Q9H2B4	-0.81451
43745	P14075	Q6NSW7	-0.22756
43746	P14075	Q9Y5G0	-1.1297
43747	P14075	Q8IW03	-0.32802
43748	P14075	Q8NER5	-0.78258
43749	P14075	P0CJ70	-0.72903
43750	P14075	Q8NGC2	-1.1027
43751	P14075	P61966	-0.16714
43752	P14075	Q59F38	-0.070172
43753	P14075	Q86W47	-0.62584
43754	P14075	Q14197	-0.1647
43755	P14075	Q96KN8	-0.12522
43756	P14075	Q9UPU7	-0.81257
43757	P14075	P27815	-0.22286
43758	P14075	Q8TC59	-0.48051
43759	P14075	Q96S53	-0.56698
43760	P14075	Q96RD7	-0.75895
43761	P14075	Q14162	-0.99956
43762	P14075	Q5VWZ2	-0.11137
43763	P14075	O60519	-0.17272
43764	P14075	P02766	-0.19326
43765	P14075	Q14201	-0.35373
43766	P14075	P83111	-0.19364
43767	P14075	Q8N158	-0.863
43768	P14075	P55285	-0.61003
43769	P14075	P52756	-0.22605
43770	P14075	Q9NYN1	-1.1358
43771	P14075	Q96D21	-0.94485
43772	P14075	Q86XJ0	-0.86584
43773	P14075	Q5TA89	-0.22709
43774	P14075	P00739	-1.0188
43775	P14075	Q6XZF7	-0.22741
43776	P14075	Q9NUT2	-0.60257

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43778	P14075	O75829	-1.1599
43779	P14075	P60891	-0.42371
43780	P14075	Q68DH5	-0.86584
43781	P14075	Q6ZNA5	-0.94512
43782	P14075	Q5EBL8	-0.22711
43783	P14075	Q4AC99	-0.55498
43784	P14075	O95361	-0.22417
43785	P14075	O60258	-0.82266
43786	P14075	Q15465	-0.22739
43787	P14075	P0C7N5	-1.1027
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43789	P14075	Q68CL5	-0.31084
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43791	P14075	P40967	-0.83376
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43793	P14075	Q13304	-1.1792
43794	P14075	Q5BKY1	-0.22777
43795	P14075	P55085	-0.33316
43796	P14075	Q9H6A9	-0.86584
43797	P14075	Q9Y4G8	-0.95646
43798	P14075	P01818	-0.97479
43799	P14075	Q8IXB3	-0.86137
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43804	P14075	Q8IWF2	-0.21072
43805	P14075	O95573	-0.68396
43806	P14075	A6NGA9	-0.86584
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43808	P14075	Q9Y2B1	-1.0003
43809	P14075	P04908	-0.88998
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43812	P14075	Q5T011	-0.2309
43813	P14075	Q8NGM1	-1.1027
43814	P14075	P60508	-0.71912
43815	P14075	Q8WWU5	-1.0387
43816	P14075	Q6ZVZ8	-0.62076
43817	P14075	Q6ZN92	-0.40277
43818	P14075	Q99418	-0.22741
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43820	P14075	Q14517	-0.23061
43821	P14075	O95319	-0.42595
43822	P14075	Q6PIL6	-0.89315
43823	P14075	Q9H496	-0.45036
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43825	P14075	P62253	-0.52287
43826	P14075	B2RPK0	-0.6193
43827	P14075	Q99614	-0.22593
43828	P14075	Q5BKU9	-0.30763
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43830	P14075	Q96S06	-0.67524
43831	P14075	Q14692	-0.46631
43832	P14075	O43294	-0.23391
43833	P14075	Q12774	-0.77972
43834	P14075	P17481	-0.22236
43835	P14075	Q9NYW0	-0.97792
43836	P14075	Q4ZHG4	-0.64605
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43838	P14075	O60755	-1.0833
43839	P14075	Q8N307	-0.74466
43840	P14075	P78556	-1.0028
43841	P14075	P50591	-0.60364
43842	P14075	Q9UGR2	-0.22578
43843	P14075	Q96JL9	-0.21172
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43848	P14075	Q9NY84	-0.39159
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43850	P14075	Q9Y365	-0.64389
43851	P14075	Q8TCC7	-0.70367
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43857	P14075	Q96Q15	-0.42212
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43897	P14075	Q12947	-0.31617
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43926	P14075	Q9HAU0	-0.22741
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43938	P14075	P00750	-0.42066
43939	P14075	Q9UKB3	-0.48297
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43942	P14075	O95222	-1.1027
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43947	P14075	Q9NU53	-0.86584
43948	P14075	Q96NM4	-0.21653
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43996	P14075	Q68G75	-0.7792
43997	P14075	Q8N819	-0.57948
43998	P14075	P08571	-0.52079
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44003	P14075	Q0VAM2	-0.79901
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44136	P14075	P07384	-0.34273
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44153	P14075	P09543	-0.50431
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44162	P14075	Q6ZN16	-0.87868
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44167	P14075	P11801	-0.51644
44168	P14075	Q8ND94	-0.86584
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44170	P14075	Q92542	-0.43228
44171	P14075	Q96G46	-0.72927
44172	P14075	Q9H1U9	-0.73185
44173	P14075	Q8N7P7	-0.11268
44174	P14075	Q16690	-0.7944
44175	P14075	Q9C037	-0.6733
44176	P14075	Q9NQ11	-0.99775
44177	P14075	P12645	-0.7172
44178	P14075	P17677	-0.093075
44179	P14075	Q2VYF4	-0.73075
44180	P14075	P51811	-0.32625
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44182	P14075	P11488	-0.64852
44183	P14075	Q01196	-0.28042
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44207	P14075	Q13303	-0.83199
44208	P14075	Q96NS5	-0.22742
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44213	P14075	Q96K76	-0.32844
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44215	P14075	Q86XL3	-0.22396
44216	P14075	Q6ZMD2	-0.92929
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44221	P14075	P03986	-1.0279
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44236	P14075	Q9NW64	-0.51209
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44238	P14075	P49961	-1.2993
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44240	P14075	Q13361	-0.8977
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44244	P14075	Q8WW22	-0.43933
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44265	P14075	Q9BVR0	-0.50371
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44555	P14075	O76041	-0.22744
44556	P14075	Q9UHC6	-0.77286
44557	P14075	Q9BUY7	-0.52751
44558	P14075	Q9BZJ3	-1.2917
44559	P14075	Q9NQA3	-0.36048
44560	P14075	P43119	-0.95155
44561	P14075	Q8TF46	-0.14805
44562	P14075	P35575	-0.38576
44563	P14075	Q86VF5	-0.73989
44564	P14075	Q9Y286	-1.1267
44565	P14075	O60259	-0.52267
44566	P14075	P18075	-0.22741
44567	P14075	Q9H0E7	-0.23751
44568	P14075	Q8IUC4	-0.55808
44569	P14075	Q9UJ14	-0.69875
44570	P14075	O75891	-0.41128
44571	P14075	Q9BQ08	-0.6052
44572	P14075	O43556	-0.7895
44573	P14075	Q6ZRF8	-0.73967
44574	P14075	Q99489	-0.41996
44575	P14075	P0C7Q5	-0.86584
44576	P14075	P56706	-0.41603
44577	P14075	P12074	-0.25619
44578	P14075	Q96DN0	-0.40286
44579	P14075	P0C091	-1.4889
44580	P14075	P54687	-0.28677
44581	P14075	O60361	-0.76477
44582	P14075	Q12805	-0.28276
44583	P14075	Q9NS62	-1.0638
44584	P14075	Q6W5P4	-1.0063
44585	P14075	Q9NU22	-0.47006
44586	P14075	Q9Y6Y8	-0.37968
44587	P14075	Q86V85	-0.86584
44588	P14075	Q8NH94	-1.1027
44589	P14075	A6NHN6	-0.87849
44590	P14075	Q8TE12	-0.2294
44591	P14075	O14880	-0.88962
44592	P14075	P21709	-0.87272
44593	P14075	Q7Z769	-0.86584
44594	P14075	Q9UDX5	-0.70233
44595	P14075	O14653	-0.36476
44596	P14075	P10071	-0.22732
44597	P14075	P00439	-0.50362
44598	P14075	A6NER0	-1.2307
44599	P14075	Q15506	-0.42746
44600	P14075	Q63HM2	-0.86584
44601	P14075	Q92626	-1.0634
44602	P14075	O95948	-0.22734
44603	P14075	P20039	-0.7302
44604	P14075	Q86UD3	-0.994
44605	P14075	Q641Q3	-0.87849
44606	P14075	A8MPS7	-0.29428
44607	P14075	Q13907	-0.30048
44608	P14075	Q5VX71	-0.86584
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44611	P14075	P15954	-0.56658
44612	P14075	Q92772	-0.37317



44613	P14075	Q96NB2	-0.83432
44614	P14075	P38398	-0.22726
44615	P14075	Q8N5M4	-0.22635
44616	P14075	O43708	-0.22725
44617	P14075	P35555	-0.69027
44618	P14075	P15121	-0.22499
44619	P14075	P98174	-0.89491
44620	P14075	Q9Y303	-0.2927
44621	P14075	Q96S99	-0.1867
44622	P14075	Q9Y446	-0.26742
44623	P14075	Q8TF76	-0.54095
44624	P14075	P31645	-0.33302
44625	P14075	A6PVI3	-0.81148
44626	P14075	Q8TEF2	-0.86584
44627	P14075	P34130	-0.73149
44628	P14075	Q8TB61	-0.78581
44629	P14075	P55273	-0.2274
44630	P14075	O60507	-0.73474
44631	P14075	Q9Y230	-0.22724
44632	P14075	Q9BYZ8	-0.86789
44633	P14075	A8MUP2	-0.26155
44634	P14075	O75386	-0.1795
44635	P14075	P01611	-0.97479
44636	P14075	Q13421	-0.5321
44637	P14075	Q92805	-0.27132
44638	P14075	P17706	-0.23713
44639	P14075	Q9NQV7	-0.21742
44640	P14075	Q9Y6Q2	-0.29455
44641	P14075	Q9NQ34	-0.99509
44642	P14075	Q5T215	-0.3115
44643	P14075	Q8NGP0	-1.1027
44644	P14075	Q1KMD3	-0.22556
44645	P14075	Q9H000	-0.60353
44646	P14075	Q92618	-0.21172
44647	P14075	O95835	-0.22737
44648	P14075	Q6UX01	-0.98249
44649	P14075	Q5VZM2	-0.48455
44650	P14075	Q8TDI7	-0.86584
44651	P14075	Q7L8A9	-0.56768
44652	P14075	Q13740	-1.0558
44653	P14075	Q9ULF5	-0.87538
44654	P14075	O76090	-0.7874
44655	P14075	Q99676	-0.21172
44656	P14075	P00352	-0.32559
44657	P14075	O76096	-0.75872
44658	P14075	Q9Y3R4	-0.23114
44659	P14075	Q71RG4	-0.86584
44660	P14075	Q9UNF0	-0.2309
44661	P14075	Q86UD5	-0.806
44662	P14075	Q9C0E8	-0.89101
44663	P14075	O15197	-1.3407
44664	P14075	Q5VUY0	-0.50416
44665	P14075	Q86TE4	-0.87849
44666	P14075	O94923	-0.43591
44667	P14075	Q8NA29	-0.99009
44668	P14075	O43296	-0.21172
44669	P14075	Q8NH81	-1.1027
44670	P14075	O43826	-0.31486
44671	P14075	P10632	-0.68951
44672	P14075	Q9Y5P6	-0.66009
44673	P14075	Q9P0M2	-0.031499
44674	P14075	Q13283	-0.23012
44675	P14075	P16189	-0.7844
44676	P14075	Q9UHG0	-0.53836
44677	P14075	Q9Y5K8	-0.13506
44678	P14075	Q96LC7	-1.3882
44679	P14075	Q99942	-0.38793
44680	P14075	P30926	-0.78903
44681	P14075	Q8TD55	-0.5353
44682	P14075	P11464	-0.88363
44683	P14075	Q96DR7	-0.97333
44684	P14075	P18465	-0.88446
44685	P14075	P48764	-0.54606
44686	P14075	Q7Z404	-0.86584
44687	P14075	O60331	-0.40727
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44692	P14075	P21730	-1.0704
44693	P14075	Q5JTW2	-0.22541
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44695	P14075	Q99437	-0.64408
44696	P14075	Q9UBS9	-0.87537
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44701	P14075	P54851	-0.83835
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44713	P14075	Q8ND23	-0.29487
44714	P14075	Q6UXP3	-0.86584
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44716	P14075	Q9BR11	-0.29787
44717	P14075	Q96JP5	-0.39322
44718	P14075	O15382	-0.08324
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44722	P14075	Q9NVA2	-0.22719
44723	P14075	Q96JM4	-0.22636
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44725	P14075	Q86YH6	-0.26104
44726	P14075	Q0D2I5	-0.11137
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44728	P14075	Q9UKV5	-0.27006
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44730	P14075	P49448	-0.65421
44731	P14075	Q5TGY3	-0.54186
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44733	P14075	Q86V35	-0.70204
44734	P14075	P61647	-0.59639
44735	P14075	Q8NGV7	-1.1027
44736	P14075	Q8IVH8	-0.41071
44737	P14075	P22570	-0.18762
44738	P14075	Q43866	-0.88367
44739	P14075	Q13017	-0.78259
44740	P14075	Q5VUR7	-0.2274
44741	P14075	O00526	-0.99706
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44744	P14075	Q9HBR0	-0.96495
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44747	P14075	Q8NC96	-0.39341
44748	P14075	Q07075	-0.85574
44749	P14075	Q8NB49	-0.57608
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44751	P14075	Q9UN67	-1.1238
44752	P14075	P01138	-0.41692
44753	P14075	Q6ZNI0	-0.71885
44754	P14075	Q96MU6	-0.21172
44755	P14075	O00337	-0.87444
44756	P14075	Q8TD57	-0.6994
44757	P14075	Q8NGI7	-1.1027
44758	P14075	Q4G0F5	-0.13648
44759	P14075	Q9BZQ4	-0.14635
44760	P14075	Q96PX6	-0.1772
44761	P14075	Q96E52	-0.7389
44762	P14075	Q8N5Z0	-0.23769
44763	P14075	Q8TD86	-0.22598
44764	P14075	P15421	-1.0706

44765	P14075	Q8NBF6	-0.82196
44766	P14075	Q9Y5Q0	-0.79662
44767	P14075	Q96KX0	-0.83907
44768	P14075	A8MZ97	-0.86584
44769	P14075	P20337	-0.7896
44770	P14075	A6NLP5	-0.21734
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44773	P14075	Q8NCF0	-0.86789
44774	P14075	O96024	-0.74788
44775	P14075	O60547	-0.84365
44776	P14075	Q92859	-0.78324
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44778	P14075	O94886	-1.2031
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44781	P14075	Q96HH6	-0.86584
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44785	P14075	P26232	-0.18642
44786	P14075	Q9Y662	-0.60238
44787	P14075	Q9Y297	-0.25461
44788	P14075	Q8WXX4	-0.62076
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44792	P14075	Q9UBX2	-0.20043
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44795	P14075	Q8N4Q0	-0.69585
44796	P14075	Q7RTU3	-0.22744
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44798	P14075	Q99677	-1.3095
44799	P14075	Q9C030	-0.50212
44800	P14075	Q96R27	-1.1027
44801	P14075	Q8NGT7	-1.1027
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44803	P14075	P52790	-0.32794
44804	P14075	Q6T311	-1.2555
44805	P14075	Q9Y5W9	-0.59455
44806	P14075	P38484	-0.97254
44807	P14075	Q504Y2	-0.69023
44808	P14075	P50395	-0.16173
44809	P14075	A4D2H0	-0.064772
44810	P14075	A8MZH6	-0.87849
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44813	P14075	Q9BPW5	-1.1358
44814	P14075	Q4VX76	-0.7765
44815	P14075	P0CG30	-0.22527
44816	P14075	P48169	-0.78927
44817	P14075	A2RUS2	-0.42005
44818	P14075	P19827	-0.83798
44819	P14075	O14843	-1.3695
44820	P14075	Q10981	-0.58395
44821	P14075	Q9BTC0	-0.22731
44822	P14075	Q2NL67	-0.45204
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44824	P14075	Q8NCW0	-0.82796
44825	P14075	Q9UL25	-0.39859
44826	P14075	P49959	-0.097676
44827	P14075	Q8NFL0	-0.5155
44828	P14075	O15535	-0.076586
44829	P14075	O15016	-0.31686
44830	P14075	Q53LP3	-0.22741
44831	P14075	Q9NP91	-0.98287
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44835	P14075	Q99578	-0.89194
44836	P14075	P01606	-0.97479
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44838	P14075	Q8WWG1	-1.1984
44839	P14075	Q9Y6Z7	-0.76957
44840	P14075	P13716	-0.36459

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44842	P14075	Q9H2B2	-0.76142
44843	P14075	Q9UBU6	-0.86584
44844	P14075	P25713	-0.18518
44845	P14075	Q13316	-0.48242
44846	P14075	Q9BX97	-0.63355
44847	P14075	Q86UT6	-0.22172
44848	P14075	P48549	-0.59128
44849	P14075	Q9C0B5	-0.95194
44850	P14075	O15130	-0.9662
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44854	P14075	A0PJK1	-0.928
44855	P14075	P43007	-0.46554
44856	P14075	Q92823	-0.74881
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44858	P14075	Q7RTU4	-0.22748
44859	P14075	Q99935	-0.81396
44860	P14075	Q8NI22	-0.57739
44861	P14075	Q92526	-0.44512
44862	P14075	Q9UHG2	-0.74472
44863	P14075	Q86Y28	-0.87849
44864	P14075	Q9NVH0	-0.67859
44865	P14075	O43847	-0.2947
44866	P14075	Q86WU2	-0.11989
44867	P14075	P32246	-0.66144
44868	P14075	Q400G9	-0.83564
44869	P14075	Q9P232	-0.68595
44870	P14075	Q9Y5Z9	-0.42246
44871	P14075	P22676	-0.39295
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44874	P14075	Q99674	-0.9476
44875	P14075	Q16850	-0.91097
44876	P14075	Q9P1Z9	-0.86584
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44878	P14075	Q6ZQW0	-0.33596
44879	P14075	Q9P2E8	-0.79424
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44882	P14075	Q9NX24	-0.22439
44883	P14075	P04196	-0.3113
44884	P14075	P49356	-0.045643
44885	P14075	P01579	-0.27454
44886	P14075	Q96PS8	-0.85361
44887	P14075	Q8NA54	-0.35479
44888	P14075	Q8NBL1	-0.352
44889	P14075	Q9NQ66	-0.27878
44890	P14075	P17252	-0.21921
44891	P14075	Q8N4B1	-0.22729
44892	P14075	P07205	-0.5088
44893	P14075	Q9NRF8	-0.44389
44894	P14075	Q6ICL7	-0.86584
44895	P14075	O95279	-1.0332
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44898	P14075	Q9UQ05	-0.88061
44899	P14075	Q8WWA0	-1.0232
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44921	P14075	O15066	-0.31136
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44923	P14075	O95427	-0.94539
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44978	P14075	P09429	-0.22901
44979	P14075	P59025	-0.86391
44980	P14075	Q92536	-0.92345
44981	P14075	P82251	-0.903
44982	P14075	Q8NGS2	-1.1027
44983	P14075	P15976	-0.22739
44984	P14075	Q96K62	-0.21172
44985	P14075	Q9Y619	-0.58668
44986	P14075	Q96J92	-0.69186
44987	P14075	Q9HBI6	-0.99234
44988	P14075	O43670	-0.20747
44989	P14075	O43432	-0.30264
44990	P14075	O00311	-0.22741
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44992	P14075	O95996	-0.22716

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44995	P14075	P20839	-0.44777
44996	P14075	I6L899	-0.35868
44997	P14075	Q9NZT2	-0.10989
44998	P14075	Q9NQX6	-0.21172
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45004	P14075	P01770	-0.97479
45005	P14075	Q8NCC5	-0.74011
45006	P14075	O43766	-0.60824
45007	P14075	P32970	-0.53615
45008	P14075	P51956	-0.22741
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45011	P14075	P43088	-1.2734
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45013	P14075	Q08830	-1.04
45014	P14075	Q6N043	-0.2385
45015	P14075	Q401N2	-0.93157
45016	P14075	Q9NXR5	-0.22741
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45021	P14075	Q13315	-0.34533
45022	P14075	Q7Z4H3	-0.14259
45023	P14075	Q13126	-0.14023
45024	P14075	Q9UK33	-0.21306
45025	P14075	P55809	-0.21003
45026	P14075	Q9H252	-0.88642
45027	P14075	Q9BQD7	-0.86584
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45038	P14075	Q16718	-0.22427
45039	P14075	Q9HD89	-0.58084
45040	P14075	Q8N339	-0.12778
45041	P14075	P0CJ72	-0.72903
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45062	P14075	Q6UW02	-0.95311
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45068	P14075	Q4L235	-1.0247

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45071	P14075	P49763	-0.77129
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45075	P14075	Q7RTR0	-0.65523
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45401	P14075	O15146	-0.67695
45402	P14075	Q9BXJ3	-0.87849
45403	P14075	Q86UA1	-0.25339
45404	P14075	Q6PIY7	-0.4407
45405	P14075	P25098	-0.31348
45406	P14075	Q96RU3	-0.22741
45407	P14075	Q8NGN5	-1.1027
45408	P14075	P06881	-0.23738
45409	P14075	Q3SXM5	-0.88939
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45413	P14075	Q9NYT0	-0.57084
45414	P14075	P17844	-0.34379
45415	P14075	Q9UH73	-0.18431
45416	P14075	P48741	-0.59192
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45418	P14075	Q03924	-0.17069
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45421	P14075	Q53S99	-0.50956
45422	P14075	Q9BSN8	-0.31656
45423	P14075	Q6ZNR0	-0.53317
45424	P14075	Q8WW62	-0.92889
45425	P14075	Q9UNA1	-0.39396
45426	P14075	Q9GZM3	-0.25197
45427	P14075	Q9P2D7	-0.53593
45428	P14075	Q15256	-0.57227
45429	P14075	Q8IYD2	-0.22606
45430	P14075	Q9BYG3	-0.22524
45431	P14075	P55795	-0.0080742
45432	P14075	Q86YR5	-0.22434
45433	P14075	E9PGG2	-0.22816
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45435	P14075	P51148	-0.79336
45436	P14075	Q9Y3B3	-0.51701
45437	P14075	P60981	-0.50799
45438	P14075	P54852	-0.89238
45439	P14075	Q9HAR2	-1.168
45440	P14075	Q13938	-0.22302
45441	P14075	Q5TGL8	-0.55072
45442	P14075	Q86YQ8	-0.22861
45443	P14075	O75695	-0.48433
45444	P14075	Q9HB40	-0.95633
45445	P14075	P58658	-0.85471
45446	P14075	Q9UMZ3	-1.1722
45447	P14075	Q9H306	-1.2834
45448	P14075	Q9NP80	-0.53829

45449	P14075	O75506	-0.29038
45450	P14075	P30484	-0.88446
45451	P14075	Q9NP72	-1.2059
45452	P14075	Q8IYE1	-0.069655
45453	P14075	P83859	-0.64899
45454	P14075	Q8NDC4	-0.15182
45455	P14075	Q8WZ19	-0.083775
45456	P14075	Q13748	-0.20039
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45458	P14075	P50458	-0.22741
45459	P14075	P06887	-0.97479
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45461	P14075	Q9Y536	-0.24989
45462	P14075	Q96DA0	-0.86789
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45464	P14075	Q8N690	-0.84399
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45467	P14075	Q8IU5	-0.2515
45468	P14075	Q5TFQ8	-0.86584
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45478	P14075	Q8WV22	-0.22346
45479	P14075	Q9BRQ8	-0.54147
45480	P14075	Q8NB12	-0.20278
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45482	P14075	Q92478	-0.98489
45483	P14075	Q9H841	-0.82716
45484	P14075	Q86UP3	-0.22611
45485	P14075	Q9UKZ4	-0.95993
45486	P14075	Q5T4F7	-0.72843
45487	P14075	Q9UJU6	-0.70532
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45492	P14075	O15155	-0.037468
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45503	P14075	Q8NGJ6	-1.1027
45504	P14075	Q9BV99	-0.22739
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45506	P14075	P13639	-0.36257
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45528	P14075	Q8IU81	-0.10996
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45531	P14075	A6NCF5	-0.22425
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45630	P14075	Q86X59	-0.0093473
45631	P14075	O75841	-0.68228
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45634	P14075	O14764	-0.93643
45635	P14075	Q6UX39	-0.81814
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45643	P14075	P17342	-0.79503
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45823	P14075	Q8IUX7	-0.52085
45824	P14075	Q8NHY3	-0.41932
45825	P14075	Q8NF91	-0.229
45826	P14075	P40616	-0.74345
45827	P14075	Q9Y5H4	-1.1297
45828	P14075	Q06945	-0.23453



45829	P14075	Q9H173	-0.19435
45830	P14075	Q9HBK9	-0.071412
45831	P14075	Q96A84	-0.85842
45832	P14075	Q95968	-0.91732
45833	P14075	P51149	-0.42276
45834	P14075	Q14654	-0.54109
45835	P14075	Q9Y689	-1.2555
45836	P14075	Q9UHV6	-0.54658
45837	P14075	Q9NRR1	-0.86851
45838	P14075	P63267	-0.60293
45839	P14075	Q6UW56	-0.22579
45840	P14075	Q9UBT2	-0.2175
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45842	P14075	Q9Y6Q3	-0.25727
45843	P14075	Q6QN14	-0.33924
45844	P14075	Q8TBP0	-1.2307
45845	P14075	Q58FF6	-0.58434
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45847	P14075	Q8IWB7	-0.22744
45848	P14075	Q9P2W9	-0.043334
45849	P14075	Q6P6B7	-0.22741
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45852	P14075	P41247	-0.24895
45853	P14075	Q9BYW1	-0.66542
45854	P14075	P98196	-0.56576
45855	P14075	Q9H3E2	-0.37527
45856	P14075	Q02509	-0.60048
45857	P14075	P32121	-0.29733
45858	P14075	P67936	-0.57509
45859	P14075	Q8IUW5	-0.80825
45860	P14075	Q17RB8	-0.64479
45861	P14075	P0CG08	-0.67293
45862	P14075	Q08431	-0.72541
45863	P14075	Q9Y442	-0.86584
45864	P14075	Q6PIV7	-0.73185
45865	P14075	P06276	-0.66253
45866	P14075	Q9Y5L2	-0.9558
45867	P14075	P04435	-0.49766
45868	P14075	Q9NRE1	-1.1909
45869	P14075	Q8WY36	-0.22719
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45871	P14075	Q95076	-0.2274
45872	P14075	P84996	-0.79975
45873	P14075	Q9H0I2	-0.48317
45874	P14075	Q8IYP2	-1.2917
45875	P14075	Q68DI1	-0.21172
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45877	P14075	P01031	-0.73185
45878	P14075	Q5BJD5	-0.86584
45879	P14075	Q86T29	-0.21172
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45881	P14075	Q15848	-0.25445
45882	P14075	Q9C0I9	-0.22784
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45884	P14075	Q9H3Z7	-0.40663
45885	P14075	Q8N8L6	-1.2555
45886	P14075	O60347	-1.2307
45887	P14075	Q8WVY7	-0.78098
45888	P14075	Q9NUZ1	-0.5006
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45892	P14075	Q6ZSS7	-0.84814
45893	P14075	Q8NDW4	-0.21172
45894	P14075	Q9BX46	-0.41372
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45896	P14075	P52824	-0.22741
45897	P14075	Q9UHF1	-1.0465
45898	P14075	Q9NR16	-1.2592
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45900	P14075	Q96LL3	-0.86584
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45902	P14075	P09923	-1.1216
45903	P14075	Q9Y5L4	-0.32675
45904	P14075	Q95816	-0.42356

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45906	P14075	P04150	-0.22744
45907	P14075	Q8IZA3	-0.60398
45908	P14075	P55899	-0.89895
45909	P14075	Q8WZA2	-0.28523
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45913	P14075	Q9BY15	-1.4936
45914	P14075	P0CG21	-0.22494
45915	P14075	Q8WWV6	-0.90561
45916	P14075	Q99726	-0.73247
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45918	P14075	O14686	-0.26832
45919	P14075	Q8TE23	-1.0864
45920	P14075	Q9UKA4	-0.15575
45921	P14075	P20929	-0.47142
45922	P14075	O15530	-0.2263
45923	P14075	Q9HCX3	-0.21172
45924	P14075	Q9P1U0	-0.10123
45925	P14075	O00602	-1.1463
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45927	P14075	Q8IWT3	-0.22683
45928	P14075	Q96KC8	-0.25738
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45936	P14075	Q8NEW7	-0.92901
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45938	P14075	Q6ZMP0	-0.96701
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45941	P14075	P47972	-0.73418
45942	P14075	Q99983	-0.86646
45943	P14075	Q8IVF2	-0.21602
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45949	P14075	Q9Y6X1	-0.50292
45950	P14075	Q2M1Z3	-1.17
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45965	P14075	Q6UXX5	-0.7817
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45969	P14075	Q96BZ9	-1.3001
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46006	P14075	Q4VXU2	-0.84005
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46008	P14075	P43307	-0.61583
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46010	P14075	Q96C92	-0.29487
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46023	P14075	Q6MZW2	-0.95463
46024	P14075	P30043	-0.22087
46025	P14075	Q8IZP0	-0.22814
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46028	P14075	P59047	-0.22711
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46040	P14075	Q9UGI9	-0.91944
46041	P14075	O75995	-0.22738
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46043	P14075	Q9Y2D0	-0.27125
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46046	P14075	P22680	-0.65289
46047	P14075	Q96NF6	-0.86584
46048	P14075	Q9UQ53	-0.55519
46049	P14075	P23946	-1.3423
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46055	P14075	P59541	-1.0953
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46058	P14075	Q96BF6	-0.22532
46059	P14075	Q00341	-0.46084
46060	P14075	A6NEL2	-0.22741
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46062	P14075	Q8IZ26	-0.21172
46063	P14075	O75592	-0.22653
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46065	P14075	O76039	-0.29256
46066	P14075	P51685	-1.2425
46067	P14075	Q92911	-0.6822
46068	P14075	Q9BV10	-0.73881
46069	P14075	Q8NCI6	-0.43405
46070	P14075	Q8IWX6	-0.16522
46071	P14075	Q8WXG1	-0.14096
46072	P14075	A2A2Y4	-0.62023
46073	P14075	Q96JF6	-0.21172
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46075	P14075	Q6ZU82	-0.43276
46076	P14075	O00270	-1.2928
46077	P14075	Q96SI9	-0.69726
46078	P14075	Q6PJF5	-0.84439
46079	P14075	Q9HA92	-0.52318
46080	P14075	Q8TED1	-0.99555
46081	P14075	Q6PI78	-0.74159
46082	P14075	Q8IVL5	-0.602
46083	P14075	Q9ULI4	-0.54692
46084	P14075	Q9Y2S2	-0.39179
46085	P14075	A6NC86	-0.85844
46086	P14075	Q8N9S7	-0.86584
46087	P14075	O43497	-0.77369
46088	P14075	Q5JXX7	-0.86584
46089	P14075	Q92186	-0.37991
46090	P14075	Q9NUN5	-0.76875
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46093	P14075	Q5HYM0	-0.46549
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46096	P14075	Q14542	-0.42415
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46106	P14075	P12319	-0.90385
46107	P14075	Q0D2K2	-0.21177
46108	P14075	P02765	-0.65999
46109	P14075	Q5NUL3	-1.0294
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46115	P14075	P25942	-0.52051
46116	P14075	P16415	-0.21172
46117	P14075	P78364	-0.18806
46118	P14075	Q70HW3	-0.3292
46119	P14075	Q49MI3	-0.30011
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46139	P14075	P55011	-0.79456
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46155	P14075	P37840	-0.21225
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46166	P14075	P47224	-0.47858
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46168	P14075	Q6PKH6	-1.382
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46246	P14075	A8MPX8	-0.65844
46247	P14075	O15374	-0.97009
46248	P14075	P07954	-0.067999
46249	P14075	O95398	-0.44133
46250	P14075	Q9GZT5	-0.7946
46251	P14075	O95006	-1.1027
46252	P14075	O60266	-0.57112
46253	P14075	Q8TE82	-0.28887
46254	P14075	O95484	-0.64451
46255	P14075	Q6UX07	-1.382
46256	P14075	O60235	-1.4823
46257	P14075	Q9UJ70	-0.23765
46258	P14075	Q9NS61	-0.47057
46259	P14075	Q8NBN7	-1.0135
46260	P14075	Q9Y2L6	-0.39372
46261	P14075	Q9NX00	-0.74159
46262	P14075	Q6P1R4	-0.64448
46263	P14075	A1Z1Q3	-0.3955
46264	P14075	Q9Y5Y9	-0.8613
46265	P14075	C9JQL5	-0.86137
46266	P14075	Q53EL9	-0.85175
46267	P14075	P62330	-0.43165
46268	P14075	Q92804	-0.19675
46269	P14075	P58397	-1.2214
46270	P14075	Q6PEW1	-0.1108
46271	P14075	Q8NH10	-1.1027
46272	P14075	Q8N4A0	-0.51238
46273	P14075	Q8WYQ9	-0.61207
46274	P14075	P01037	-0.89477
46275	P14075	Q9UQC2	-0.22738
46276	P14075	P35716	-0.23871
46277	P14075	Q8N4E7	-0.2069
46278	P14075	Q99962	-0.22783
46279	P14075	Q96K58	-0.21172
46280	P14075	Q8NFX8	-1.0252
46281	P14075	Q9UJV3	-0.37437
46282	P14075	P01601	-0.97479
46283	P14075	Q8N434	-0.78973
46284	P14075	Q8WXA8	-0.90812

46285	P14075	Q9UI33	-0.97613
46286	P14075	Q6UXV0	-0.91447
46287	P14075	P24723	-0.67271
46288	P14075	Q86UE8	-0.22741
46289	P14075	Q8N205	-0.68435
46290	P14075	P0C264	-0.9088
46291	P14075	Q9BZJ7	-0.97774
46292	P14075	P23435	-0.73414
46293	P14075	Q969Y2	-0.86679
46294	P14075	P98066	-0.72427
46295	P14075	Q8IYU4	-0.0093799
46296	P14075	Q9NZ32	-0.32984
46297	P14075	Q9Y5U9	-0.82946
46298	P14075	Q5JS37	-0.87849
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46301	P14075	Q5TON5	-0.22741
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46303	P14075	Q86U44	-0.14358
46304	P14075	P14138	-0.65201
46305	P14075	Q92915	-0.27546
46306	P14075	P40426	-0.23553
46307	P14075	Q15204	-1.0652
46308	P14075	A6NKL6	-0.86584
46309	P14075	O94768	-0.76239
46310	P14075	P05455	-0.46795
46311	P14075	P48449	-0.51111
46312	P14075	P40313	-0.95884
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46314	P14075	Q86VL8	-0.84766
46315	P14075	Q9UKP4	-1.1807
46316	P14075	P07288	-0.85051
46317	P14075	Q9BYT8	-0.45525
46318	P14075	O75923	-0.79171
46319	P14075	P61019	-0.60797
46320	P14075	Q16553	-0.67199
46321	P14075	Q9NS18	-0.2202
46322	P14075	P13995	-0.72691
46323	P14075	Q5JSH3	-0.22743
46324	P14075	Q92562	-0.17834
46325	P14075	Q6ZT21	-0.81103
46326	P14075	Q4KMP7	-1.1028
46327	P14075	O00469	-0.70759
46328	P14075	Q86SH2	-0.46768
46329	P14075	Q9UKT6	-0.47433
46330	P14075	Q4AE62	-0.45869
46331	P14075	Q5GFL6	-0.94502
46332	P14075	Q16281	-1.2188
46333	P14075	Q13822	-0.97929
46334	P14075	P61011	-0.44824
46335	P14075	Q6WKZ4	-0.28849
46336	P14075	Q4UJ75	-0.2274
46337	P14075	Q8IX29	-0.21317
46338	P14075	O00292	-0.67835
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46340	P14075	Q8IZC7	-0.21172
46341	P14075	Q587I9	-0.62877
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46344	P14075	P63130	-0.40851
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46346	P14075	Q0ZGT2	-0.42448
46347	P14075	P68366	-0.58088
46348	P14075	Q8NA82	-0.57509
46349	P14075	Q13702	-0.35255
46350	P14075	Q8N239	-0.21608
46351	P14075	Q9HA64	-0.53723
46352	P14075	Q8N0X2	-0.2289
46353	P14075	P21941	-0.38934
46354	P14075	P78540	-0.21267
46355	P14075	Q6ZT77	-0.21172
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46363	P14075	Q9BRR3	-0.86584
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46371	P14075	Q11206	-0.65767
46372	P14075	Q9UPV7	-0.55769
46373	P14075	Q86YM7	-0.40453
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46375	P14075	Q86WK7	-1.0067
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46382	P14075	Q8NEV1	-0.8995
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46388	P14075	Q9UN74	-1.1553
46389	P14075	O75355	-1.0482
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46391	P14075	Q9H582	-0.21172
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46396	P14075	O75293	-0.4233
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46427	P14075	Q9Y463	-0.22741
46428	P14075	A6NKZ8	-0.59955
46429	P14075	Q13003	-0.79762
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46515	P14075	Q14028	-1.0828
46516	P14075	Q16581	-0.92946
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46521	P14075	Q6IMI4	-0.34485
46522	P14075	Q5VWM4	-0.25825
46523	P14075	P0C1S8	-0.3832
46524	P14075	Q96B54	-0.73967
46525	P14075	Q9H3Y6	-0.93793
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46527	P14075	P60174	-0.088689
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46543	P14075	Q13948	-0.67414
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46667	P14075	Q96NX5	-0.76562
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46669	P14075	O14829	-0.22457
46670	P14075	Q8IZD9	-0.20745
46671	P14075	P59539	-1.0953
46672	P14075	P04211	-0.97479
46673	P14075	Q8IUZ0	-0.31084
46674	P14075	Q92781	-1.0127
46675	P14075	P02774	-0.74009
46676	P14075	P31327	-0.17102
46677	P14075	P61568	-0.30416
46678	P14075	P30048	-0.21315
46679	P14075	Q969W9	-0.81502
46680	P14075	P20963	-0.14561
46681	P14075	O43301	-0.79654
46682	P14075	O14836	-0.53129
46683	P14075	Q7L5L3	-0.80507
46684	P14075	O95140	-0.70045
46685	P14075	B7Z8K6	-0.86584
46686	P14075	P49189	-0.3049
46687	P14075	P36507	-0.22762
46688	P14075	O43781	-0.84315
46689	P14075	O14901	-0.20819
46690	P14075	Q7Z353	-0.13002
46691	P14075	Q9UII6	-0.99108
46692	P14075	Q9NUH8	-0.86584
46693	P14075	Q9Y2K3	-0.62094
46694	P14075	Q96KP4	-0.52479
46695	P14075	Q6YN16	-0.73418
46696	P14075	Q5GH72	-0.86584
46697	P14075	Q6P3S1	-0.21281
46698	P14075	P10144	-0.2725
46699	P14075	Q8TAT2	-0.82398
46700	P14075	Q15019	-0.2272
46701	P14075	E0CX11	-0.87849
46702	P14075	Q9H161	-0.21942
46703	P14075	Q9UDR5	-0.59772
46704	P14075	Q15391	-1.1074
46705	P14075	P50993	-0.5137
46706	P14075	P0CG24	-0.21172
46707	P14075	Q8IZY2	-0.75787
46708	P14075	Q06418	-0.55014
46709	P14075	Q9P0Z9	-0.65881
46710	P14075	Q13530	-0.7989
46711	P14075	P51812	-0.22466
46712	P14075	Q92878	-0.21454
46713	P14075	Q14119	-0.11215
46714	P14075	Q9BXB7	-0.62747
46715	P14075	O00241	-0.71214
46716	P14075	Q9H511	-0.20899
46717	P14075	Q8TE54	-0.52442
46718	P14075	Q9H1P6	-0.099181
46719	P14075	Q96SZ6	-0.47548
46720	P14075	Q15125	-0.77791
46721	P14075	Q95436	-0.80193
46722	P14075	Q709F0	-0.53052
46723	P14075	Q5H8C1	-1.4266
46724	P14075	P01877	-0.55431
46725	P14075	Q99612	-0.22616
46726	P14075	Q8N103	-0.83099
46727	P14075	Q15393	-0.15507
46728	P14075	Q92930	-0.6059
46729	P14075	P06858	-0.44113
46730	P14075	Q9NUG4	-0.16078
46731	P14075	Q9H2V7	-0.31721
46732	P14075	Q9P2F8	-0.94742
46733	P14075	P12544	-0.36887
46734	P14075	Q96A11	-0.63617
46735	P14075	Q9Y615	-0.079234
46736	P14075	Q9UQF0	-0.61341
46737	P14075	P49190	-1.2827
46738	P14075	Q6P5X7	-0.86584
46739	P14075	Q969D9	-0.87365
46740	P14075	P05062	-0.2151

46741	P14075	Q86UY6	-0.41082
46742	P14075	Q9BTT6	-0.37554
46743	P14075	Q8NCL8	-0.52887
46744	P14075	Q9NS56	-0.2274
46745	P14075	O15544	-0.045394
46746	P14075	P62068	-0.34298
46747	P14075	Q07912	-0.35476
46748	P14075	Q32ZL2	-0.97121
46749	P14075	Q58FG0	-0.58434
46750	P14075	Q9Y4K0	-0.33414
46751	P14075	O95199	-0.43285
46752	P14075	Q53GT1	-0.23542
46753	P14075	Q155Q3	-0.22741
46754	P14075	Q6UW60	-0.99309
46755	P14075	Q96M89	-0.090129
46756	P14075	P00740	-1.0925
46757	P14075	Q9NYG2	-0.69993
46758	P14075	P21912	-0.11394
46759	P14075	Q15555	-0.071346
46760	P14075	Q9NZL9	-0.13335
46761	P14075	Q96FM1	-0.73644
46762	P14075	Q5W0U4	-0.22755
46763	P14075	Q9C0C7	-0.22749
46764	P14075	Q96Q40	-0.71556
46765	P14075	Q92619	-1.0348
46766	P14075	P06316	-0.97479
46767	P14075	Q9H9A6	-0.22867
46768	P14075	A6NGJ6	-0.73967
46769	P14075	Q6P995	-0.96404
46770	P14075	Q96GZ6	-0.90918
46771	P14075	Q6ZV73	-0.75138
46772	P14075	Q9P1Z3	-1.1441
46773	P14075	Q06643	-0.72368
46774	P14075	Q96KG7	-0.80146
46775	P14075	Q9UQV4	-0.89095
46776	P14075	Q9UDY6	-0.42407
46777	P14075	Q9UL54	-0.5252
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46779	P14075	P55040	-0.49695
46780	P14075	Q15743	-1.3209
46781	P14075	Q9H082	-0.84267
46782	P14075	Q96SZ5	-0.51929
46783	P14075	Q9HBH0	-0.97135
46784	P14075	Q7Z7G1	-0.63478
46785	P14075	Q9N2K0	-0.40288
46786	P14075	Q7LBE3	-0.82496
46787	P14075	Q5K4L6	-1.1349
46788	P14075	P01604	-0.97479
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46790	P14075	Q9C0E4	-0.43401
46791	P14075	Q9ULI2	-0.74692
46792	P14075	P32249	-1.1048
46793	P14075	Q9UQM7	-0.33248
46794	P14075	Q9P2E9	-0.6131
46795	P14075	P54868	-0.30969
46796	P14075	A2RRD8	-0.21172
46797	P14075	Q96JA1	-0.86584
46798	P14075	Q14494	-0.26941
46799	P14075	Q14CZ7	-0.3676
46800	P14075	Q8IWB4	-0.86584
46801	P14075	O15258	-0.57903
46802	P14075	Q9H0R4	-0.52934
46803	P14075	P07202	-0.86729
46804	P14075	Q8NHX9	-0.51191
46805	P14075	O94826	-0.22731
46806	P14075	Q86XE0	-0.38965
46807	P14075	A6NHT5	-0.23708
46808	P14075	Q01959	-0.35099
46809	P14075	P18827	-0.45362
46810	P14075	Q96M78	-0.11316
46811	P14075	Q9NZ01	-0.49221
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46813	P14075	Q15835	-0.86667
46814	P14075	Q9NSN8	-0.29611
46815	P14075	Q8NBZ7	-0.95634
46816	P14075	Q5T2P8	-0.49855

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46818	P14075	Q9Y624	-0.63457
46819	P14075	Q8TCP9	-0.85296
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46822	P14075	Q05C16	-0.22775
46823	P14075	Q16667	-0.21394
46824	P14075	P30501	-0.93787
46825	P14075	Q9UNI6	-0.70398
46826	P14075	P25391	-0.71522
46827	P14075	Q96DU9	-0.6758
46828	P14075	P01708	-0.97479
46829	P14075	Q5VU36	-0.86584
46830	P14075	Q96KR4	-0.46755
46831	P14075	P04632	-0.22926
46832	P14075	Q6P5Z2	-0.24307
46833	P14075	Q6DHV7	-0.30612
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46835	P14075	Q08554	-1.03
46836	P14075	Q969G9	-0.21602
46837	P14075	Q86X45	-0.34295
46838	P14075	O43903	-0.24431
46839	P14075	P06850	-0.4728
46840	P14075	Q96NR7	-0.0064115
46841	P14075	Q9Y5W7	-0.74647
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46843	P14075	P21781	-0.50349
46844	P14075	P45985	-0.22837
46845	P14075	Q6UXX9	-0.77202
46846	P14075	P31391	-1.2173
46847	P14075	Q9NRN5	-1.0254
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46849	P14075	P12110	-0.50224
46850	P14075	Q96AJ9	-0.3648
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46853	P14075	Q8NG83	-1.1027
46854	P14075	Q9UK05	-0.22741
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46856	P14075	Q9UHN6	-0.98753
46857	P14075	P52333	-0.32301
46858	P14075	Q6UXI9	-1.0428
46859	P14075	Q9H7D7	-0.22741
46860	P14075	Q6NUM9	-0.61981
46861	P14075	Q9H4B8	-0.70412
46862	P14075	Q01433	-0.22411
46863	P14075	P49638	-0.41308
46864	P14075	Q13586	-0.45985
46865	P14075	O60393	-0.22577
46866	P14075	Q95772	-0.83273
46867	P14075	O43852	-0.22685
46868	P14075	P52961	-0.64086
46869	P14075	P46926	-0.1672
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46871	P14075	P14653	-0.22709
46872	P14075	Q8TCE9	-0.22542
46873	P14075	A8K0R7	-0.73967
46874	P14075	Q7Z4F1	-0.90144
46875	P14075	P39900	-1.207
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46877	P14075	Q96CM4	-0.17452
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46879	P14075	Q5TH69	-0.90368
46880	P14075	Q9H756	-0.86584
46881	P14075	O95544	-0.6655
46882	P14075	P59074	-0.27428
46883	P14075	O14813	-0.17922
46884	P14075	Q9H069	-0.29487
46885	P14075	P69849	-0.83538
46886	P14075	Q9Y2U5	-0.58588
46887	P14075	Q96FE7	-0.79698
46888	P14075	A8MT66	-0.052915
46889	P14075	Q13887	-0.22469
46890	P14075	Q86T03	-0.85964
46891	P14075	Q8IZV2	-0.88766
46892	P14075	Q8N111	-0.86584

46893	P14075	P02462	-0.47341
46894	P14075	Q8N3F8	-0.22773
46895	P14075	Q13164	-0.22741
46896	P14075	Q43312	-0.31873
46897	P14075	Q13107	-0.2871
46898	P14075	O60359	-0.952
46899	P14075	Q8NGH5	-1.1027
46900	P14075	Q9Y2J0	-0.23397
46901	P14075	O15438	-0.96695
46902	P14075	A8MPY1	-0.65085
46903	P14075	O00187	-0.91411
46904	P14075	Q5SVS4	-0.52568
46905	P14075	Q86SF2	-0.56391
46906	P14075	O43361	-0.21172
46907	P14075	P24001	-1.0381
46908	P14075	Q9HCL2	-0.42628
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46910	P14075	O75717	-0.22809
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46912	P14075	Q9NTJ3	-0.22448
46913	P14075	P61163	-0.2622
46914	P14075	Q86VD1	-0.57066
46915	P14075	P28676	-0.55154
46916	P14075	B4E2M5	-0.22741
46917	P14075	Q9UPT8	-0.51948
46918	P14075	Q14954	-0.96614
46919	P14075	P53708	-0.77452
46920	P14075	A5PLL7	-0.93931
46921	P14075	Q9BXR6	-0.85879
46922	P14075	E9PKD4	-0.051589
46923	P14075	P36894	-0.30059
46924	P14075	Q8IYM0	-0.3693
46925	P14075	Q99814	-0.2317
46926	P14075	Q13474	-0.50164
46927	P14075	O43813	-0.69403
46928	P14075	Q9BXT4	-0.54369
46929	P14075	Q96K37	-0.85789
46930	P14075	Q30KQ2	-0.84399
46931	P14075	Q9P2J2	-0.85902
46932	P14075	Q9UKR8	-0.86584
46933	P14075	P29120	-0.3643
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46935	P14075	Q13098	-0.18291
46936	P14075	Q9BQD1	-0.23759
46937	P14075	Q13263	-0.22747
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46939	P14075	O75023	-0.90121
46940	P14075	Q86SG3	-0.72639
46941	P14075	Q07092	-0.58746
46942	P14075	P0CG39	-0.436
46943	P14075	Q8NCH0	-0.49357
46944	P14075	Q8NC69	-0.19405
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46946	P14075	P04114	-0.31032
46947	P14075	Q9NRA0	-0.22835
46948	P14075	O94907	-0.35903
46949	P14075	Q8IUE6	-0.88998
46950	P14075	Q9UK97	-0.45235
46951	P14075	O75677	-0.52332
46952	P14075	O14791	-0.54339
46953	P14075	Q24JP5	-0.54696
46954	P14075	P45378	-0.50281
46955	P14075	Q92560	-0.14846
46956	P14075	Q9H0K1	-0.32505
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46958	P14075	Q9NSP4	-0.16552
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46960	P14075	Q96IX5	-0.73489
46961	P14075	P61158	-0.20546
46962	P14075	Q15131	-0.29383
46963	P14075	Q9HC73	-1.2762
46964	P14075	P20823	-0.21937
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46966	P14075	Q09328	-0.64969
46967	P14075	P34981	-1.1084
46968	P14075	Q12788	-0.23314

46969	P14075	A8MTI9	-1.6001
46970	P14075	P13797	-0.48349
46971	P14075	P28325	-0.35193
46972	P14075	Q2TV78	-1.1937
46973	P14075	A8MWK0	-0.93241
46974	P14075	P56381	-0.18862
46975	P14075	B7U540	-1.0159
46976	P14075	Q9HD36	-0.22451
46977	P14075	P59773	-0.86584
46978	P14075	P16870	-0.74736
46979	P14075	O95206	-1.0198
46980	P14075	Q9NPH2	-0.61121
46981	P14075	Q8IYM1	-0.22584
46982	P14075	A6NM62	-0.81528
46983	P14075	Q68DQ2	-0.44203
46984	P14075	Q96AD5	-0.67707
46985	P14075	P04843	-0.57533
46986	P14075	Q15485	-1.1151
46987	P14075	Q9BSK1	-0.21172
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46991	P14075	Q9H2X6	-0.22741
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46995	P14075	P47755	-0.58933
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47003	P14075	A6NM76	-1.1027
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47005	P14075	Q8WV60	-0.29766
47006	P14075	Q16658	-0.0614
47007	P14075	Q86YH2	-0.2385
47008	P14075	Q13630	-0.77523
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47010	P14075	Q9NQ76	-0.46204
47011	P14075	Q8N1D0	-0.16078
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47013	P14075	O75629	-0.60915
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47016	P14075	Q86SX6	-0.26501
47017	P14075	Q14896	-0.77589
47018	P14075	Q9Y2B2	-0.78386
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47023	P14075	P50876	-0.85454
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47031	P14075	P42261	-0.5081
47032	P14075	P81133	-0.32345
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47034	P14075	P0DJD4	-0.59537
47035	P14075	P0C7H9	-0.25914
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47037	P14075	Q9UFV1	-0.94809
47038	P14075	O60684	-0.22689
47039	P14075	P0C851	-0.86584
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47043	P14075	Q9NRN9	-0.37482
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47047	P14075	P11137	-0.098929
47048	P14075	Q3ZCX4	-0.21172
47049	P14075	P60468	-0.30266
47050	P14075	Q7RTS3	-0.22807
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47056	P14075	Q92819	-0.69545
47057	P14075	Q8N257	-0.88998
47058	P14075	P40227	-0.49683
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47060	P14075	A6NIV6	-0.25189
47061	P14075	Q6ZRP7	-0.98967
47062	P14075	P22309	-0.48376
47063	P14075	Q96MD7	-0.20908
47064	P14075	A6NK06	-0.41671
47065	P14075	P12883	-0.12765
47066	P14075	O95264	-0.99689
47067	P14075	P48637	-0.46644
47068	P14075	P49368	-0.20352
47069	P14075	Q8NCR9	-0.86584
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47072	P14075	Q92828	-0.49326
47073	P14075	A6NMB1	-1.0093
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47076	P14075	Q8NI38	-0.23983
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47085	P14075	Q9UGJ0	-0.68003
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47087	P14075	Q9P227	-1.1258
47088	P14075	Q6UXV4	-0.72059
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47090	P14075	Q06889	-0.21808
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47093	P14075	P57789	-1.1201
47094	P14075	Q9BWQ6	-0.84601
47095	P14075	Q8N9F7	-0.66403
47096	P14075	Q96MK3	-0.87849
47097	P14075	Q3B7J2	-1.3339
47098	P14075	P01768	-0.97479
47099	P14075	P0C7I0	-0.27318
47100	P14075	Q9UPM8	-0.17961
47101	P14075	Q76I76	-0.84181
47102	P14075	Q8N1I0	-0.20576
47103	P14075	Q9GZY4	-0.75099
47104	P14075	Q13214	-0.858
47105	P14075	Q9BVA6	-0.9448
47106	P14075	Q69YJ1	-0.74073
47107	P14075	P46379	-0.22626
47108	P14075	Q9H694	-0.65451
47109	P14075	Q14562	-0.15282
47110	P14075	Q02535	-0.22469
47111	P14075	Q9HA72	-0.86584
47112	P14075	Q68D91	-0.43358
47113	P14075	Q63HM9	-0.75153
47114	P14075	P11021	-0.22311
47115	P14075	P27707	-0.43807
47116	P14075	Q9H0A6	-0.22677
47117	P14075	P05981	-0.44131
47118	P14075	Q6PF15	-0.2238
47119	P14075	P20339	-0.49717
47120	P14075	P15260	-0.99695

47121	P14075	Q8NHC5	-1.1027
47122	P14075	Q96QF7	-0.21602
47123	P14075	Q9NQ69	-0.22741
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47126	P14075	O95156	-0.75225
47127	P14075	Q9P0K7	-0.22745
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47129	P14075	P22794	-0.87983
47130	P14075	P14927	-0.32605
47131	P14075	Q86UY8	-0.22172
47132	P14075	P0DKB6	-0.86584
47133	P14075	Q8NCQ5	-0.45914
47134	P14075	P43694	-0.22739
47135	P14075	Q6P2D8	-0.22741
47136	P14075	Q9Y694	-0.94984
47137	P14075	Q86UV7	-0.73967
47138	P14075	Q8N954	-0.44783
47139	P14075	Q9BYC5	-0.51316
47140	P14075	Q02223	-1.0827
47141	P14075	Q6PL18	-0.23137
47142	P14075	Q9UI38	-0.69536
47143	P14075	P55283	-1.0557
47144	P14075	Q8N7Z5	-0.22741
47145	P14075	P57737	-0.49745
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47147	P14075	Q92692	-0.25351
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47149	P14075	Q8NGL2	-1.1027
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47161	P14075	Q9NYW7	-1.0176
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47166	P14075	Q9BZ81	-0.16078
47167	P14075	P32019	-0.43526
47168	P14075	I1YAP6	-0.22676
47169	P14075	O43614	-1.1834
47170	P14075	P04432	-0.97479
47171	P14075	Q86YB7	-0.66953
47172	P14075	P31930	-0.52465
47173	P14075	Q14917	-0.63537
47174	P14075	O43193	-1.2529
47175	P14075	Q9H2I8	-0.22728
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47178	P14075	Q504Y3	-0.52332
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47180	P14075	Q96HD9	-0.41741
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47206	P14075	O60397	-0.40431
47207	P14075	Q9NRZ9	-0.20492
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47265	P14075	Q8WW36	-0.51948
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47327	P14075	Q13753	-1.0932
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47336	P14075	Q03692	-1.0009
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47355	P14075	P01718	-0.97479
47356	P14075	Q8N8J7	-0.86584
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47376	P14075	Q16206	-1.0656
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47379	P14075	O75916	-0.55941
47380	P14075	P10316	-0.7844
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47392	P14075	O95180	-0.74099
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47515	P14075	Q9NRY6	-0.57963
47516	P14075	P04180	-0.31468
47517	P14075	Q63ZY6	-0.37739
47518	P14075	P80404	-0.3322
47519	P14075	Q14562	-0.21374
47520	P14075	Q8IUD6	-0.22779
47521	P14075	Q2M218	-0.21172
47522	P14075	Q9NQW5	-0.33953
47523	P14075	Q9UJQ7	-0.43283
47524	P14075	Q13595	-0.52931
47525	P14075	Q5SRD0	-0.45254
47526	P14075	Q14520	-1.3953
47527	P14075	Q9UNN8	-0.37118
47528	P14075	P01185	-0.40133
47529	P14075	Q8NCQ7	-0.53158
47530	P14075	P35968	-0.31545
47531	P14075	A5A3E0	-0.29454
47532	P14075	O43347	-0.31449
47533	P14075	Q58EX7	-0.78542
47534	P14075	P50895	-1.1435
47535	P14075	O60291	-0.2274
47536	P14075	P12643	-0.22741
47537	P14075	Q96S86	-1.0554
47538	P14075	Q00169	-0.72935
47539	P14075	A8K0Z3	-0.16867
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47543	P14075	O75373	-0.21172
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47545	P14075	Q9BSE5	-0.23541
47546	P14075	Q8NFM7	-0.64716
47547	P14075	Q9NVD3	-0.040336
47548	P14075	A8K0S8	-0.21692
47549	P14075	Q92564	-0.16078
47550	P14075	Q12923	-0.24797
47551	P14075	Q9H0J4	-0.20942
47552	P14075	Q14142	-0.43552
47553	P14075	P51449	-0.40052
47554	P14075	O15018	-0.59126
47555	P14075	A6NDX5	-0.21172
47556	P14075	P0CL84	-0.21602
47557	P14075	Q9BUU2	-0.37739
47558	P14075	Q9BSN7	-0.75016
47559	P14075	O75326	-0.25143
47560	P14075	Q9NTQ9	-0.85917
47561	P14075	Q9H903	-0.70965
47562	P14075	P14207	-0.93473
47563	P14075	Q8N9F8	-0.21172
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47566	P14075	P39210	-0.56147
47567	P14075	Q8WXX3	-0.2274
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47572	P14075	P19397	-0.48462
47573	P14075	Q8NBB2	-0.13496
47574	P14075	P43361	-0.16078
47575	P14075	P30556	-0.50239
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47579	P14075	P26436	-0.58892
47580	P14075	P48551	-0.707
47581	P14075	A6NNN8	-0.96495
47582	P14075	Q9Y277	-0.9349
47583	P14075	P21754	-0.34259
47584	P14075	O00238	-0.55517
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47587	P14075	Q15617	-1.1027
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47589	P14075	P33981	-0.65634
47590	P14075	C9JVI0	-0.69644
47591	P14075	Q6NZ63	-0.86584
47592	P14075	Q5H9E4	-0.73185
47593	P14075	O43914	-0.59683
47594	P14075	P02452	-0.30048
47595	P14075	P47887	-1.1745
47596	P14075	P34969	-1.1633
47597	P14075	P05162	-0.43618
47598	P14075	Q9Y487	-0.34183
47599	P14075	P56199	-0.44772
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47601	P14075	Q8NHA6	-1.1027
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47603	P14075	Q6ZRU5	-0.87849
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47605	P14075	P10636	-0.10034
47606	P14075	Q96RP8	-0.84843
47607	P14075	Q30KQ7	-0.84399
47608	P14075	Q6UX53	-0.47305
47609	P14075	Q9GZP0	-0.87801
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47613	P14075	Q8N5G2	-0.53823
47614	P14075	Q93045	-0.16893
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47616	P14075	Q9HCY8	-0.33922
47617	P14075	Q9UBY5	-1.1786
47618	P14075	Q8NFO6	-1.0502
47619	P14075	Q9BYZ6	-1.1939
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47621	P14075	O75417	-0.64803
47622	P14075	P11511	-0.35232
47623	P14075	O60449	-1.0741
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47625	P14075	Q8WWG9	-0.94617
47626	P14075	Q3BBV0	-0.29487
47627	P14075	Q6UXU1	-0.87849
47628	P14075	Q5CZA5	-0.21172
47629	P14075	P19075	-1.0498
47630	P14075	Q9H3P7	-0.63018
47631	P14075	Q86U10	-0.4301
47632	P14075	Q8N9U0	-0.21602
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47634	P14075	Q8NGE8	-1.1027
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47636	P14075	P31267	-0.22568
47637	P14075	Q9UJ55	-0.16078
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47639	P14075	Q9Y6H8	-0.82695
47640	P14075	Q96D03	-0.29298
47641	P14075	Q8WU76	-0.17951
47642	P14075	Q8NH37	-1.1027
47643	P14075	Q9NYA4	-0.55208
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47645	P14075	Q92791	-0.22527
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47647	P14075	Q8N1G4	-0.22752
47648	P14075	Q96MR6	-0.22762
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47656	P14075	Q15612	-0.97532
47657	P14075	Q8IYN0	-0.21172
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47659	P14075	Q9HC36	-0.20088
47660	P14075	Q9BT22	-0.78453
47661	P14075	Q96F81	-0.71465
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47665	P14075	Q9UJ72	-0.33831
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47672	P14075	Q96E17	-0.86697
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47674	P14075	Q86UW1	-0.87558
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47679	P14075	P46060	-0.22626
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47687	P14075	Q8TDN1	-0.84843
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47689	P14075	Q6NXP0	-0.52751
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47691	P14075	O95405	-0.20122
47692	P14075	A6NL26	-1.1027
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47694	P14075	P01567	-0.65335
47695	P14075	Q8TDU5	-1.1149
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47703	P14075	Q66LE6	-0.18828
47704	P14075	Q9BY66	-0.87804
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47706	P14075	Q14964	-0.76754
47707	P14075	O43869	-1.1027
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47717	P14075	Q8IUC8	-0.66473
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47723	P14075	Q8NG76	-1.1027
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47728	P14075	Q99798	-0.15089

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47736	P14075	Q15431	-0.28525
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47752	P14075	P55316	-0.31899
47753	P14075	Q9H1C0	-0.80498
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47755	P14075	P84095	-0.37788
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47757	P14075	Q9H596	-0.67542
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47759	P14075	P49760	-0.39308
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47761	P14075	Q9NPH6	-0.75124
47762	P14075	A6NDN3	-0.35868
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47764	P14075	Q13634	-1.0987
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47783	P14075	Q8NDW8	-0.024644
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47794	P14075	Q8WUR7	-0.14634
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47806	P14075	Q8TC27	-0.96155
47807	P14075	P60709	-0.064954
47808	P14075	P30530	-0.50685
47809	P14075	Q14126	-0.87015
47810	P14075	Q99895	-0.91901
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47821	P14075	Q16777	-0.88998
47822	P14075	Q7Z570	-0.73967
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47824	P14075	Q4KMQ2	-0.86651
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47827	P14075	Q96PP9	-0.58408
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47832	P14075	Q9NR11	-0.21172
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47834	P14075	Q9NQV8	-0.32554
47835	P14075	Q9H0H5	-0.23289
47836	P14075	P04001	-1.2635
47837	P14075	Q9Y4P3	-0.22749
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47839	P14075	Q9NUE0	-0.91341
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47842	P14075	O43451	-0.65173
47843	P14075	Q8IVW8	-0.92929
47844	P14075	Q01973	-0.66755
47845	P14075	P40394	-0.64144
47846	P14075	Q9ULJ1	-0.3067
47847	P14075	Q8N4K4	-0.86584
47848	P14075	Q9H9Q2	-0.16667
47849	P14075	Q6ZQY2	-0.22736
47850	P14075	Q9GZP7	-1.0439
47851	P14075	Q15109	-0.72953
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47853	P14075	P56962	-0.73572
47854	P14075	P63151	-0.21226
47855	P14075	Q14584	-0.21172
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47860	P14075	O95450	-1.116
47861	P14075	P05120	-0.55291
47862	P14075	Q16671	-1.086
47863	P14075	Q16795	-0.10899
47864	P14075	Q5JU85	-0.2325
47865	P14075	Q96L58	-0.53457
47866	P14075	Q9NYY1	-0.84631
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47870	P14075	Q9H2C1	-0.22757
47871	P14075	Q9Y625	-0.95452
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47874	P14075	P20742	-0.80353
47875	P14075	P51809	-0.21456
47876	P14075	Q6UXQ8	-0.87849
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47878	P14075	Q8NFX0	-0.69527
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47883	P14075	P14902	-0.31615
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47885	P14075	Q6U841	-0.74415
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47887	P14075	Q9NY59	-0.34465
47888	P14075	Q7LDI9	-0.40851
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47890	P14075	Q9NRJ5	-0.2881
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47906	P14075	Q969N2	-0.2209
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47925	P14075	P59817	-0.2385
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47932	P14075	Q9UKF7	-0.32622
47933	P14075	Q99944	-1.1859
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47935	P14075	Q765P7	-0.75806
47936	P14075	Q6ZNG0	-0.21172
47937	P14075	Q9Y5Y0	-0.42192
47938	P14075	Q9P035	-1.0283
47939	P14075	Q9H0Q0	-0.66064
47940	P14075	Q9HAW8	-0.8365
47941	P14075	Q9H857	-0.43358
47942	P14075	Q9UPZ6	-1.2447
47943	P14075	Q5J8M3	-0.82686
47944	P14075	P34096	-0.74826
47945	P14075	Q9Y2R4	-0.51914
47946	P14075	Q8NFT6	-0.21979
47947	P14075	Q9NZP5	-1.1027
47948	P14075	Q04844	-0.96238
47949	P14075	O60330	-1.1297
47950	P14075	Q7RTU7	-0.23038
47951	P14075	P54219	-0.50749
47952	P14075	P05106	-0.30815
47953	P14075	Q9Y680	-0.54767
47954	P14075	Q9UBG0	-0.90338
47955	P14075	Q8WVS4	-0.22276
47956	P14075	Q96T52	-0.54541

47957	P14075	O00559	-0.76002
47958	P14075	Q8NBI6	-0.88449
47959	P14075	Q9NRM1	-0.98363
47960	P14075	O00294	-0.36162
47961	P14075	Q8TCU5	-0.35549
47962	P14075	P60033	-0.30536
47963	P14075	Q9HAZ1	-0.85572
47964	P14075	O00626	-0.98017
47965	P14075	Q9N2J8	-0.71912
47966	P14075	A6NJ16	-0.87849
47967	P14075	Q8NDX2	-0.77746
47968	P14075	O60880	-0.22741
47969	P14075	Q9NPC3	-0.096713
47970	P14075	P31025	-1.0175
47971	P14075	O75379	-0.68227
47972	P14075	Q9Y5T5	-0.26164
47973	P14075	P01116	-0.3013
47974	P14075	Q9H0U3	-0.98182
47975	P14075	Q9UI47	-0.21018
47976	P14075	P41279	-0.23187
47977	P14075	P47884	-1.1775
47978	P14075	P15848	-0.3751
47979	P14075	Q9NYB5	-0.94223
47980	P14075	Q8N2U9	-0.86584
47981	P14075	A6QL63	-0.93238
47982	P14075	Q8N1E6	-0.22638
47983	P14075	Q96DZ5	-0.68515
47984	P14075	Q3ZCM7	-0.67265
47985	P14075	Q5TGI0	-0.86584
47986	P14075	P01178	-0.39112
47987	P14075	Q9UNU6	-0.88299
47988	P14075	Q9HD90	-0.22757
47989	P14075	Q9UI17	-0.25335
47990	P14075	Q96IQ9	-0.2385
47991	P14075	Q9Y5X3	-0.63017
47992	P14075	Q14376	-0.42023
47993	P14075	Q9H5U6	-0.4464
47994	P14075	Q9NRX5	-0.47103
47995	P14075	Q6VB85	-0.31899
47996	P14075	Q8NGC9	-1.1027
47997	P14075	P02675	-0.76602
47998	P14075	Q9Y5J3	-0.22683
47999	P14075	O15195	-0.41477
48000	P14075	Q9NU39	-0.31899
48001	P14075	Q8NG92	-1.1027
48002	P14075	Q96AP4	-0.73967
48003	P14075	Q5VVQ6	-0.40093
48004	P14075	Q8NGX1	-1.1027
48005	P14075	Q9BZL6	-0.26037
48006	P14075	P32321	-0.4756
48007	P14075	Q9UBN4	-0.23995
48008	P14075	Q6P9H5	-0.95272
48009	P14075	P0CAT3	-0.030335
48010	P14075	Q9UKA2	-0.22277
48011	P14075	Q8NI17	-0.53607
48012	P14075	Q8IU17	-0.79654
48013	P14075	Q9NVF9	-0.51206
48014	P14075	Q9UHQ9	-0.81002
48015	P14075	P18065	-0.38907
48016	P14075	O14727	-0.22939
48017	P14075	Q9UL68	-0.20848
48018	P14075	P28340	-0.2276
48019	P14075	A6NIJ5	-0.48092
48020	P14075	Q8IW92	-0.78258
48021	P14075	Q96CE8	-0.86584
48022	P14075	Q03113	-0.52843
48023	P14075	Q9BVS4	-0.94636
48024	P14075	Q9NYV9	-0.97792
48025	P14075	Q6EBC2	-0.87365
48026	P14075	P14317	-0.22816
48027	P14075	Q6TCH7	-0.72271
48028	P14075	Q02413	-0.70688
48029	P14075	Q5VYP0	-0.86584
48030	P14075	Q8NGT9	-1.1027
48031	P14075	Q9NRG0	-0.45441
48032	P14075	P0C870	-0.14173

48033	P14075	P57735	-0.43884
48034	P14075	Q6WN34	-0.68441
48035	P14075	Q5M8T2	-0.78743
48036	P14075	P46597	-0.18003
48037	P14075	A6BM72	-0.81305
48038	P14075	P43026	-0.48423
48039	P14075	P13533	-0.27673
48040	P14075	Q5GAN3	-0.85864
48041	P14075	O76036	-1.0046
48042	P14075	Q52LC2	-0.7821
48043	P14075	P01160	-0.37116
48044	P14075	Q49A26	-0.65467
48045	P14075	P46821	-0.16782
48046	P14075	O60506	-0.24161
48047	P14075	Q8IWW6	-1.1111
48048	P14075	Q9Y3Q3	-0.54485
48049	P14075	Q6P2M8	-0.56441
48050	P14075	P35218	-0.27125
48051	P14075	Q9NYV8	-1.0176
48052	P14075	Q2V2M9	-0.22303
48053	P14075	Q92813	-0.77756
48054	P14075	Q8IYX8	-0.087931
48055	P14075	P59537	-1.067
48056	P14075	Q9BTV6	-0.43276
48057	P14075	Q14994	-0.22757
48058	P14075	Q9UMY4	-0.22098
48059	P14075	Q9BZW4	-0.6579
48060	P14075	Q8TD94	-0.22537
48061	P14075	Q9UP52	-0.98738
48062	P14075	Q15648	-0.13848
48063	P14075	P16615	-0.85853
48064	P14075	Q9NPG1	-0.47748
48065	P14075	P54756	-0.74844
48066	P14075	P42701	-0.65407
48067	P14075	Q96HE7	-0.55677
48068	P14075	Q6ZRS2	-0.20934
48069	P14075	Q969E1	-0.858
48070	P14075	Q9NS75	-1.025
48071	P14075	P56696	-0.84475
48072	P14075	Q8NGC1	-1.1027
48073	P14075	Q5T7N3	-0.29487
48074	P14075	Q8NA75	-0.22739
48075	P14075	Q8WU20	-0.21932
48076	P14075	Q9H1M0	-0.2021
48077	P14075	Q9BSK2	-0.73185
48078	P14075	P0C7W6	-0.12302
48079	P14075	Q6XPS3	-1.0039
48080	P14075	Q86YT6	-0.22738
48081	P14075	Q6TCH4	-0.86584
48082	P14075	Q86T20	-0.87849
48083	P14075	Q8N4Q1	-0.12625
48084	P14075	A6NC57	-0.22741
48085	P14075	P04053	-0.051564
48086	P14075	Q6NT52	-0.85703
48087	P14075	Q9UBK8	-0.29549
48088	P14075	P43632	-1.0706
48089	P14075	Q9Y471	-0.41396
48090	P14075	Q5VVB8	-0.86584
48091	P14075	Q5SZK8	-1.229
48092	P14075	Q86X24	-0.48463
48093	P14075	Q07869	-0.23559
48094	P14075	Q8IVP9	-0.21172
48095	P14075	P12277	-0.14465
48096	P14075	Q9Y2P4	-1.1276
48097	P14075	Q6PF04	-0.21172
48098	P14075	Q9UMZ2	-0.25741
48099	P14075	Q7Z406	-0.45579
48100	P14075	P51530	-0.23118
48101	P14075	P53677	-0.070488
48102	P14075	Q9UJW2	-1.4201
48103	P14075	O43557	-0.5825
48104	P14075	Q96BW5	-0.48656
48105	P14075	Q9HCL0	-1.1861
48106	P14075	O96011	-0.19126
48107	P14075	Q6PKX4	-0.52406
48108	P14075	Q08477	-0.84539

48109	P14075	Q5M775	-0.22745
48110	P14075	P13761	-0.37101
48111	P14075	Q86X52	-0.72755
48112	P14075	P57087	-0.44751
48113	P14075	Q6ZMW3	-0.31084
48114	P14075	O94813	-0.26941
48115	P14075	Q8IXX5	-0.86584
48116	P14075	P42126	-0.37482
48117	P14075	Q9P218	-0.96006
48118	P14075	Q8NES8	-0.84399
48119	P14075	Q8N4P3	-0.62208
48120	P14075	P28907	-0.61147
48121	P14075	A8MTB9	-0.86584
48122	P14075	Q9NYS0	-0.87099
48123	P14075	Q9H720	-0.84625
48124	P14075	Q8N2E2	-0.87849
48125	P14075	A2RUC4	-0.55821
48126	P14075	Q08117	-0.28437
48127	P14075	P32119	-0.42129
48128	P14075	C9JUS6	-0.87849
48129	P14075	Q5W041	-0.22758
48130	P14075	Q9Y4C1	-0.24493
48131	P14075	Q969V5	-0.22739
48132	P14075	Q9H169	-0.50545
48133	P14075	P24530	-0.75247
48134	P14075	O95197	-0.57452
48135	P14075	P01621	-0.97479
48136	P14075	Q9Y5G4	-1.1297
48137	P14075	Q8IZD2	-0.22743
48138	P14075	P41221	-0.22982
48139	P14075	Q8NEC7	-0.16361
48140	P14075	Q9H7Z7	-0.30949
48141	P14075	P51159	-0.28656
48142	P14075	Q9C0D9	-0.77108
48143	P14075	Q9UH65	-0.62437
48144	P14075	A5D8V7	-0.046401
48145	P14075	Q5JTD7	-0.21679
48146	P14075	Q8NCJ5	-0.1984
48147	P14075	Q9BUH8	-0.22739
48148	P14075	P01613	-0.97479
48149	P14075	Q9BVG8	-0.37999
48150	P14075	O43934	-0.52887
48151	P14075	P59894	-0.62648
48152	P14075	Q96BM1	-0.22741
48153	P14075	Q96KV6	-0.86584
48154	P14075	Q8NGS9	-1.1027
48155	P14075	P24592	-0.74781
48156	P14075	O15232	-0.54278
48157	P14075	Q7Z5J8	-0.86584
48158	P14075	Q460N3	-0.21427
48159	P14075	P07316	-0.18006
48160	P14075	Q8N461	-0.219
48161	P14075	P0CG01	-0.87849
48162	P14075	Q13049	-0.2274
48163	P14075	Q9HBU1	-0.22739
48164	P14075	P21926	-0.57575
48165	P14075	Q9Y2Q0	-0.49384
48166	P14075	Q06481	-0.28885
48167	P14075	Q99463	-1.194
48168	P14075	Q96G79	-0.62947
48169	P14075	Q7Z4Y8	-0.44749
48170	P14075	P06889	-0.97479
48171	P14075	Q8N910	-0.0084122
48172	P14075	Q7Z4J2	-0.67287
48173	P14075	A6NNA5	-0.09592
48174	P14075	P09238	-1.2285
48175	P14075	Q96PT3	-0.20118
48176	P14075	Q8N8F7	-0.86584
48177	P14075	Q9UP38	-0.37711
48178	P14075	Q96MP5	-0.52332
48179	P14075	Q9BVA1	-0.17578
48180	P14075	Q658P3	-0.52726
48181	P14075	Q5VTY9	-1.3144
48182	P14075	P35125	-0.51346
48183	P14075	Q8NCM2	-0.82925
48184	P14075	Q13591	-0.85472

48185	P14075	P49643	-0.40479
48186	P14075	Q7Z4V0	-0.2274
48187	P14075	P49184	-0.45954
48188	P14075	Q13202	-0.87151
48189	P14075	P22760	-0.87856
48190	P14075	P49619	-0.82775
48191	P14075	Q9BTU6	-0.29552
48192	P14075	Q69YU3	-0.29487
48193	P14075	Q99767	-0.22737
48194	P14075	A6NJU9	-0.86584
48195	P14075	Q9H488	-0.1171
48196	P14075	Q5VZ03	-0.17765
48197	P14075	Q02386	-0.22251
48198	P14075	O00180	-0.85968
48199	P14075	Q6ZNB7	-0.93131
48200	P14075	O75937	-0.24513
48201	P14075	Q5EBM4	-0.21172
48202	P14075	Q8WXG6	-0.32347
48203	P14075	O95639	-0.22226
48204	P14075	Q9HC56	-1.0841
48205	P14075	Q9BYV2	-0.8443
48206	P14075	P49326	-0.91705
48207	P14075	P29373	-0.20833
48208	P14075	Q9UMR7	-1.1298
48209	P14075	Q16649	-0.18292
48210	P14075	Q9NQZ6	-0.47027
48211	P14075	O95238	-0.095432
48212	P14075	Q9BV38	-0.60582
48213	P14075	Q6XD76	-0.22749
48214	P14075	P59020	-0.16078
48215	P14075	Q16842	-0.54535
48216	P14075	Q16661	-0.76645
48217	P14075	Q7Z4V5	-0.25894
48218	P14075	Q9NZP8	-1.2895
48219	P14075	Q9Y467	-0.22742
48220	P14075	P19971	-0.45338
48221	P14075	Q16644	-0.22876
48222	P14075	Q9H1U4	-0.74466
48223	P14075	P28068	-0.88115
48224	P14075	Q9BXW6	-0.22741
48225	P14075	Q96B02	-0.39492
48226	P14075	Q9GZP9	-0.25677
48227	P14075	O60779	-0.59726
48228	P14075	Q9ULD6	-0.31269
48229	P14075	Q6ZMK1	-0.21953
48230	P14075	Q9UBV2	-0.37397
48231	P14075	C9J442	-0.87849
48232	P14075	Q6ZWI9	-0.52332
48233	P14075	Q15147	-0.33185
48234	P14075	O60676	-0.73088
48235	P14075	Q9HCM2	-0.63462
48236	P14075	O60279	-1.006
48237	P14075	Q96SF7	-0.44914
48238	P14075	Q2QL34	-0.8204
48239	P14075	P17931	-0.21055
48240	P14075	O95294	-0.54707
48241	P14075	Q8N6N7	-0.61251
48242	P14075	Q15884	-0.52887
48243	P14075	Q5T2T1	-0.22521
48244	P14075	A6NFA0	-0.86584
48245	P14075	O00338	-0.31058
48246	P14075	P98187	-0.90248
48247	P14075	P11182	-0.18651
48248	P14075	Q8IWX7	-0.41174
48249	P14075	Q9UGL1	-0.24319
48250	P14075	Q6DN03	-0.88998
48251	P14075	P58304	-0.22722
48252	P14075	P60568	-0.43087
48253	P14075	Q86VZ4	-0.86584
48254	P14075	Q6P1J6	-0.70104
48255	P14075	P56470	-0.6121
48256	P14075	Q6P461	-1.0629
48257	P14075	Q9HAQ2	-0.67441
48258	P14075	Q15849	-0.40556
48259	P14075	Q6UXY1	-0.73461
48260	P14075	Q13356	-0.05148



48261	P14075	Q99592	-0.22901
48262	P14075	Q06828	-0.89386
48263	P14075	O95249	-0.41046
48264	P14075	Q16635	-0.51764
48265	P14075	Q5JPE7	-0.41813
48266	P14075	Q86Y38	-0.9377
48267	P14075	O94985	-0.98278
48268	P14075	Q16143	-0.21099
48269	P14075	Q5VYY1	-0.22741
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48271	P14075	Q96NZ8	-0.76449
48272	P14075	Q8N7R7	-0.44208
48273	P14075	Q4G0M1	-0.87849
48274	P14075	Q3ZAQ7	-0.84368
48275	P14075	O75365	-0.95843
48276	P14075	Q12879	-0.27271
48277	P14075	Q16875	-0.44358
48278	P14075	P56180	-1.3526
48279	P14075	P13598	-1.0872
48280	P14075	P78312	-0.37984
48281	P14075	Q2TAA2	-0.46243
48282	P14075	P01815	-0.97479
48283	P14075	Q9HB58	-0.19514
48284	P14075	Q969X1	-0.84718
48285	P14075	P02792	-0.093442
48286	P14075	Q9UKY3	-0.80756
48287	P14075	P0C0E4	-0.75906
48288	P14075	Q99426	-0.2201
48289	P14075	Q96E66	-0.29487
48290	P14075	Q6P3V2	-0.099256
48291	P14075	P21579	-0.29051
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48293	P14075	Q8NDX6	-0.22071
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48295	P14075	Q9P212	-0.29339
48296	P14075	O95760	-0.18899
48297	P14075	O14756	-1.0414
48298	P14075	P59544	-1.0953
48299	P14075	Q8IV50	-0.43278
48300	P14075	Q9HCB6	-0.61416
48301	P14075	Q8NAM6	-0.32648
48302	P14075	Q9H0X6	-0.52332
48303	P14075	Q53RD9	-1.1707
48304	P14075	Q9UJ42	-1.1721
48305	P14075	Q86XA0	-0.74687
48306	P14075	Q8WVD3	-0.74395
48307	P14075	Q9Y276	-0.49403
48308	P14075	O14753	-0.32365
48309	P14075	Q9Y4G2	-0.39109
48310	P14075	Q9NPE6	-0.56168
48311	P14075	Q9BY79	-0.72123
48312	P14075	Q99593	-0.46692
48313	P14075	Q8TDU9	-1.1437
48314	P14075	P22310	-0.82692
48315	P14075	Q6UWS5	-0.30763
48316	P14075	P10275	-0.22742
48317	P14075	Q8IWQ3	-0.5791
48318	P14075	P68431	-0.53969
48319	P14075	A6NFH5	-0.57941
48320	P14075	Q9H5I5	-0.96063
48321	P14075	Q14093	-0.55118
48322	P14075	Q969S2	-0.28227
48323	P14075	Q9UI32	-0.22739
48324	P14075	Q96RD3	-1.1027
48325	P14075	Q8N2A0	-0.22518
48326	P14075	Q6NV75	-1.1721
48327	P14075	P0CJ90	-0.20043
48328	P14075	Q5JVL4	-0.49662
48329	P14075	P22102	-0.50308
48330	P14075	Q9H772	-0.84337
48331	P14075	P42330	-0.24463
48332	P14075	P30740	-0.24656
48333	P14075	P49682	-1.0271
48334	P14075	Q8NHV9	-0.22235
48335	P14075	Q8IW41	-0.22758
48336	P14075	Q68CR7	-0.86584

48337	P14075	Q86W25	-0.79654
48338	P14075	Q8NGN3	-1.1027
48339	P14075	P04431	-0.97479
48340	P14075	Q14842	-0.98803
48341	P14075	Q9UBX1	-0.86833
48342	P14075	Q5VXU9	-0.043452
48343	P14075	Q9BXI2	-0.58724
48344	P14075	Q8IZF7	-1.1905
48345	P14075	Q95819	-0.26691
48346	P14075	Q6GMR7	-0.79358
48347	P14075	Q6P9G4	-0.86584
48348	P14075	P49588	-0.25508
48349	P14075	P51955	-0.22741
48350	P14075	Q8IVV8	-0.93628
48351	P14075	Q96CF2	-0.05113
48352	P14075	Q7L099	-0.67326
48353	P14075	A6NHI5	-0.86584
48354	P14075	Q9Y6N1	-0.69729
48355	P14075	Q96NA8	-0.81863
48356	P14075	Q96I27	-0.21172
48357	P14075	Q5VZ18	-0.22741
48358	P14075	Q9BY32	-0.57287
48359	P14075	Q02446	-0.18666
48360	P14075	P08185	-0.84395
48361	P14075	P01625	-0.97479
48362	P14075	Q14CX5	-0.86584
48363	P14075	Q96PC3	-0.15353
48364	P14075	Q2MKA7	-0.24882
48365	P14075	Q6NXP6	-0.57206
48366	P14075	Q9HB29	-1.0662
48367	P14075	Q8WU66	-0.75739
48368	P14075	Q8NGS8	-1.1027
48369	P14075	Q96MS0	-0.84088
48370	P14075	Q8N6R1	-0.75275
48371	P14075	Q5TIA1	-0.42575
48372	P14075	Q5I0X7	-0.46086
48373	P14075	Q658T7	-0.048815
48374	P14075	P03979	-0.54698
48375	P14075	Q9UNH7	-0.17391
48376	P14075	Q27J81	-0.225
48377	P14075	Q6TDP4	-0.58145
48378	P14075	Q9H112	-0.22584
48379	P14075	Q12829	-1.058
48380	P14075	Q14168	-0.71044
48381	P14075	Q8N2G4	-0.60538
48382	P14075	Q99704	-0.057289
48383	P14075	P23942	-1.0376
48384	P14075	Q71RG6	-0.87849
48385	P14075	O43763	-0.22783
48386	P14075	P01127	-0.27803
48387	P14075	Q8IVM8	-0.8419
48388	P14075	Q96M27	-0.35868
48389	P14075	P63098	-0.28092
48390	P14075	Q8IY45	-0.21352
48391	P14075	Q9NUX5	-0.14546
48392	P14075	P04437	-0.49766
48393	P14075	Q6ZSZ6	-0.2259
48394	P14075	Q95069	-1.0047
48395	P14075	Q92794	-0.29517
48396	P14075	Q96DH6	-0.6758
48397	P14075	Q5QNW6	-0.88998
48398	P14075	Q9Y2W7	-0.26459
48399	P14075	P0C645	-1.1027
48400	P14075	Q5HYK9	-0.21172
48401	P14075	Q8IVF6	-0.22739
48402	P14075	Q8TF21	-0.22743
48403	P14075	Q7Z402	-0.86584
48404	P14075	Q9HCE7	-0.22741
48405	P14075	Q96G91	-1.0682
48406	P14075	Q9Y394	-1.0135
48407	P14075	A8MT82	-0.98969
48408	P14075	Q9NS85	-0.32918
48409	P14075	P20366	-0.72536
48410	P14075	Q96D09	-0.28875
48411	P14075	A2CJ06	-0.6854
48412	P14075	P98179	-0.46997

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48414	P14075	Q7Z304	-0.89984
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48416	P14075	Q9H0E2	-0.22516
48417	P14075	P00747	-0.39402
48418	P14075	O95382	-0.9989
48419	P14075	Q96MC5	-0.071387
48420	P14075	Q9H158	-1.1553
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48422	P14075	P00797	-0.80594
48423	P14075	Q01968	-0.34239
48424	P14075	O95870	-0.81246
48425	P14075	Q9BXA5	-1.0528
48426	P14075	Q6ZTQ3	-0.17937
48427	P14075	Q6PCB0	-0.99416
48428	P14075	Q9UHI8	-1.1226
48429	P14075	P30305	-0.17915
48430	P14075	Q8IVF7	-0.26343
48431	P14075	Q9UKB5	-0.88725
48432	P14075	Q9BYD5	-0.2882
48433	P14075	Q12791	-0.62281
48434	P14075	P50461	-0.22806
48435	P14075	Q580R0	-0.017642
48436	P14075	Q12866	-0.48193
48437	P14075	O95460	-0.38262
48438	P14075	O77932	-0.84642
48439	P14075	O95832	-0.74106
48440	P14075	Q8WWF3	-0.86584
48441	P14075	Q13823	-0.40682
48442	P14075	O15389	-1.0093
48443	P14075	P53602	-0.56773
48444	P14075	O14994	-0.86567
48445	P14075	Q96B33	-0.64451
48446	P14075	Q8TAL6	-0.79238
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48448	P14075	P10909	-0.067973
48449	P14075	Q9UHC7	-0.22383
48450	P14075	Q86W74	-0.86584
48451	P14075	P00326	-0.65633
48452	P14075	Q86YR6	-0.60442
48453	P14075	Q7Z3Z3	-0.51985
48454	P14075	P57073	-0.29841
48455	P14075	Q17RP2	-0.33043
48456	P14075	Q9H2D1	-0.51716
48457	P14075	Q96SU4	-0.80455
48458	P14075	Q8IUX1	-0.52887
48459	P14075	Q14240	-0.083469
48460	P14075	Q9BUQ8	-0.33419
48461	P14075	Q9NRJ4	-0.22492
48462	P14075	Q9BRP0	-0.2225
48463	P14075	P21917	-0.45273
48464	P14075	Q9BZZ2	-1.3276
48465	P14075	Q14CN2	-1.2555
48466	P14075	Q9NXJ5	-0.53879
48467	P14075	A5PLL1	-0.22741
48468	P14075	Q96QU1	-1.2237
48469	P14075	P06028	-1.0706
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48471	P14075	O95833	-0.21289
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48475	P14075	Q6IF00	-1.1027
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48477	P14075	Q8N8M0	-0.41082
48478	P14075	Q6VN20	-0.22449
48479	P14075	Q6ZQT0	-0.032237
48480	P14075	Q96FT7	-1.0532
48481	P14075	P56134	-0.52999
48482	P14075	Q9UBR1	-0.30816
48483	P14075	Q9NP55	-0.85725
48484	P14075	Q6S8J7	-0.22717
48485	P14075	Q17RD7	-0.57056
48486	P14075	Q8NGM9	-1.1027
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48490	P14075	Q9NZS2	-1.0036
48491	P14075	P80748	-0.97479
48492	P14075	Q9Y4E5	-0.2385
48493	P14075	P50607	-0.51373
48494	P14075	Q17R26	-0.31656
48495	P14075	Q68CQ7	-0.72851
48496	P14075	Q6ZS82	-0.94295
48497	P14075	Q9ULL8	-0.30924
48498	P14075	Q96FG2	-0.5735
48499	P14075	Q96E93	-0.94953
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48503	P14075	Q6IPX1	-1.2307
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48505	P14075	P80098	-0.9002
48506	P14075	Q8TDF5	-0.94969
48507	P14075	P0C7N8	-1.1027
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48510	P14075	Q8NCN4	-0.24629
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48516	P14075	P49915	-0.46459
48517	P14075	P50225	-0.33247
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48525	P14075	O95477	-0.40567
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48528	P14075	Q16609	-0.54538
48529	P14075	P49753	-0.3249
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48531	P14075	Q96H72	-0.58115
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48537	P14075	Q9BYT9	-0.85455
48538	P14075	O60687	-0.36909
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48540	P14075	P14415	-0.36107
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48543	P14075	O43248	-0.22267
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48545	P14075	Q86XE3	-0.93591
48546	P14075	Q8N6M9	-0.13827
48547	P14075	Q8NG84	-1.1027
48548	P14075	Q68J44	-0.90806
48549	P14075	Q86XF0	-0.36274
48550	P14075	P0C7Q3	-0.13505
48551	P14075	Q6IE37	-0.80012
48552	P14075	Q96AX9	-0.22738
48553	P14075	Q96QE3	-0.69823
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48555	P14075	P0CJ76	-0.72903
48556	P14075	Q8N104	-0.84399
48557	P14075	O95139	-0.23149
48558	P14075	Q9Y693	-0.96404
48559	P14075	A8MW92	-0.52332
48560	P14075	Q05215	-0.22066
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48563	P14075	P36955	-0.78071
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48568	P14075	Q99523	-0.34698
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48576	P14075	P20336	-0.33559
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48580	P14075	O75718	-0.89736
48581	P14075	P00966	-0.18821
48582	P14075	Q8NBJ9	-0.87122
48583	P14075	Q32M45	-0.85455
48584	P14075	Q9BWX5	-0.22739
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48587	P14075	P47897	-0.2485
48588	P14075	Q8N9I5	-0.96508
48589	P14075	O60493	-0.22325
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48591	P14075	Q06495	-0.49862
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48593	P14075	O15496	-0.58087
48594	P14075	Q96ILO	-0.24726
48595	P14075	Q9UF33	-0.797
48596	P14075	P59666	-0.8478
48597	P14075	Q8N0Z6	-0.20472
48598	P14075	Q99584	-0.23466
48599	P14075	Q9H7X7	-1.0792
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48602	P14075	Q86XP0	-0.39042
48603	P14075	Q8IXZ2	-0.20361
48604	P14075	Q6P3R8	-0.9869
48605	P14075	Q96PQ5	-0.30292
48606	P14075	Q15386	-0.22882
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48608	P14075	Q96KR7	-0.33444
48609	P14075	Q6ZVW7	-0.014435
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48612	P14075	P24903	-0.76256
48613	P14075	P13746	-0.88088
48614	P14075	Q2M243	-0.0046616
48615	P14075	Q0VDD8	-0.65655
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48617	P14075	Q9H257	-0.30225
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48619	P14075	Q9H4F8	-1.1398
48620	P14075	Q3T906	-0.52883
48621	P14075	Q92887	-0.72431
48622	P14075	Q9P2E2	-0.4095
48623	P14075	Q8IWE4	-0.17518
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48625	P14075	Q9Y6Y9	-0.11342
48626	P14075	Q96C01	-0.15369
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48632	P14075	Q9UI09	-0.16051
48633	P14075	O95155	-0.19504
48634	P14075	Q5SGD2	-0.69722
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48642	P14075	Q8N2K1	-0.95699
48643	P14075	Q8TED0	-0.22751
48644	P14075	P50052	-0.71063
48645	P14075	Q9NYZ4	-0.62261
48646	P14075	P00403	-0.5883
48647	P14075	Q9BXX1	-0.22009
48648	P14075	Q5T4W7	-0.83344
48649	P14075	O60503	-0.91815
48650	P14075	Q86WK6	-1.0776
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48652	P14075	P55058	-1.035
48653	P14075	Q8NBU5	-0.62107
48654	P14075	A6NK58	-0.28928
48655	P14075	Q96T60	-0.46669
48656	P14075	P16591	-0.38919
48657	P14075	Q9Y6V7	-0.85822
48658	P14075	Q9NVN3	-0.20328
48659	P14075	A8MWS1	-0.87849
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48661	P14075	A6NFN3	-0.87391
48662	P14075	Q9BWW7	-0.42167
48663	P14075	P49768	-0.22731
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48665	P14075	Q8NBW4	-0.96495
48666	P14075	P55884	-0.22103
48667	P14075	P48146	-0.67299
48668	P14075	Q9Y5H2	-1.1297
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48671	P14075	Q6UWN5	-0.60538
48672	P14075	Q08493	-0.61902
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48674	P14075	P01024	-0.64154
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48677	P14075	Q96IV6	-0.93388
48678	P14075	P04003	-0.28885
48679	P14075	P40937	-0.1775
48680	P14075	Q8N414	-0.86584
48681	P14075	Q8N6U8	-1.262
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48683	P14075	Q02539	-0.83249
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48700	P14075	Q14108	-1.1458
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48756	P14075	Q8NAT2	-0.62329
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48780	P14075	Q8WZ71	-0.86584
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48782	P14075	Q6ZR37	-0.76318
48783	P14075	Q9BXP8	-1.3494
48784	P14075	A6NND4	-1.1027
48785	P14075	Q8IZP2	-0.29487
48786	P14075	O95154	-0.38624
48787	P14075	O60812	-0.51753
48788	P14075	P40818	-0.28164
48789	P14075	P09466	-0.98476
48790	P14075	Q6PL24	-0.78733
48791	P14075	Q96E22	-0.6866
48792	P14075	P17020	-0.21172

48793	P14075	Q9NWF4	-1.0026
48794	P14075	Q15695	-0.48097
48795	P14075	Q969P0	-0.31114
48796	P14075	Q9UKY1	-0.2274
48797	P14075	Q9BWH2	-0.30763
48798	P14075	Q9BWU1	-0.6365
48799	P14075	P47890	-1.1027
48800	P14075	Q9NSE7	-0.58945
48801	P14075	O76083	-0.22616
48802	P14075	P50226	-0.33087
48803	P14075	Q9NP95	-0.77798
48804	P14075	Q14183	-0.23681
48805	P14075	Q8TAT5	-0.55867
48806	P14075	Q8IXN7	-0.76322
48807	P14075	P82980	-0.46227
48808	P14075	Q9Y2V7	-0.20299
48809	P14075	P48039	-1.1042
48810	P14075	Q9P2P5	-0.45042
48811	P14075	P60827	-0.92264
48812	P14075	O43300	-0.75156
48813	P14075	P50406	-0.8555
48814	P14075	Q9NNZ6	-0.6881
48815	P14075	Q5T6J7	-0.34708
48816	P14075	O14609	-0.86372
48817	P14075	Q6UWY0	-0.7695
48818	P14075	O15484	-0.97717
48819	P14075	Q9BQY6	-0.79897
48820	P14075	P09327	-0.20752
48821	P14075	P48165	-0.99914
48822	P14075	O95935	-0.44017
48823	P14075	P27144	-0.5567
48824	P14075	Q8NFF5	-0.60442
48825	P14075	Q7RTY7	-1.3299
48826	P14075	Q9NRD9	-0.86263
48827	P14075	P20585	-0.052951
48828	P14075	O00634	-0.54
48829	P14075	Q96KJ9	-0.46505
48830	P14075	Q7RTU1	-0.38946
48831	P14075	P20671	-0.88998
48832	P14075	Q3KNT9	-0.86584
48833	P14075	O75746	-0.39293
48834	P14075	Q969H8	-0.70049
48835	P14075	Q13488	-0.68602
48836	P14075	Q15057	-0.98969
48837	P14075	P56851	-0.76062
48838	P14075	Q92806	-0.61863
48839	P14075	Q92963	-0.57707
48840	P14075	Q15061	-0.22753
48841	P14075	Q99424	-0.64134
48842	P14075	Q4G0X4	-0.19405
48843	P14075	A8MWD9	-0.18
48844	P14075	Q9H0Y0	-0.38361
48845	P14075	Q8TDV5	-1.2026
48846	P14075	P49703	-0.22771
48847	P14075	Q7Z6W1	-0.86584
48848	P14075	Q9BZJ8	-0.97774
48849	P14075	Q03519	-0.29834
48850	P14075	Q96R47	-1.1027
48851	P14075	Q96RQ9	-0.96165
48852	P14075	Q86V40	-1.086
48853	P14075	Q7RTU0	-0.22741
48854	P14075	O94892	-0.21172
48855	P14075	Q8TER0	-0.89691
48856	P14075	Q9H2Q1	-0.86584
48857	P14075	Q709C8	-0.48011
48858	P14075	Q96S96	-0.53675
48859	P14075	Q9HCN4	-0.97682
48860	P14075	Q8N145	-0.64999
48861	P14075	P0C7T8	-0.86584
48862	P14075	Q9UHD2	-0.22741
48863	P14075	P0C7A2	-0.2034
48864	P14075	Q05823	-0.3571
48865	P14075	Q7L3S4	-0.21172
48866	P14075	P51124	-1.1506
48867	P14075	Q96QE2	-0.74052
48868	P14075	Q04756	-1.1269



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48870	P14075	Q9Y666	-0.99714
48871	P14075	Q8IX30	-0.22746
48872	P14075	Q5VW00	-0.22735
48873	P14075	A6NGY5	-1.1027
48874	P14075	P49279	-0.38372
48875	P14075	Q8WTP8	-0.24321
48876	P14075	A6NM15	-0.79654
48877	P14075	P51786	-0.15809
48878	P14075	Q8NGN0	-1.1027
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48880	P14075	Q9C009	-0.2981
48881	P14075	Q92934	-0.091123
48882	P14075	Q6ZQN7	-0.97339
48883	P14075	P01233	-0.71873
48884	P14075	P10600	-0.22741
48885	P14075	Q9H2L4	-0.86584
48886	P14075	O75771	-0.22013
48887	P14075	Q9BY19	-0.86584
48888	P14075	P01711	-0.97479
48889	P14075	Q9C0J9	-0.22639
48890	P14075	Q3MJ13	-0.22776
48891	P14075	P22914	-0.43291
48892	P14075	P21583	-0.44203
48893	P14075	Q92696	-0.56042
48894	P14075	Q7M4L6	-0.41833
48895	P14075	Q96MS3	-0.71382
48896	P14075	Q9Y573	-0.40503
48897	P14075	A8MTL3	-0.52332
48898	P14075	P23434	-0.2965
48899	P14075	Q5U5R9	-0.45042
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48901	P14075	Q8NH41	-1.1027
48902	P14075	Q9NQ88	-0.79597
48903	P14075	P35225	-0.24559
48904	P14075	Q96P88	-1.1147
48905	P14075	Q9H2J7	-0.93552
48906	P14075	Q8NGZ4	-1.1027
48907	P14075	Q8NCW5	-0.35914
48908	P14075	Q5EBN2	-0.73967
48909	P14075	P15313	-0.38628
48910	P14075	O15229	-0.57256
48911	P14075	O15228	-0.47132
48912	P14075	Q7Z3E5	-0.22732
48913	P14075	Q96GD0	-0.11309
48914	P14075	Q8WV19	-0.62877
48915	P14075	Q8TF05	-0.17233
48916	P14075	Q9NYK1	-0.55011
48917	P14075	Q9UJW7	-0.21172
48918	P14075	Q9Y5Y3	-1.1721
48919	P14075	Q6QEF8	-0.48053
48920	P14075	A6NDX4	-0.86584
48921	P14075	Q92771	-0.7015
48922	P14075	Q8TEW8	-0.227
48923	P14075	Q13607	-1.1027
48924	P14075	O95727	-0.8639
48925	P14075	P09131	-0.8119
48926	P14075	O75751	-0.40673
48927	P14075	Q6TFL4	-0.4703
48928	P14075	Q7RTY3	-0.91901
48929	P14075	Q96BY9	-0.44597
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48932	P14075	Q96PZ2	-0.65844
48933	P14075	Q5VWW1	-0.90124
48934	P14075	P24386	-0.79238
48935	P14075	P22612	-0.41405
48936	P14075	Q29983	-0.6415
48937	P14075	P07332	-0.56277
48938	P14075	P23786	-0.099304
48939	P14075	Q86VD7	-0.60007
48940	P14075	P36954	-0.18477
48941	P14075	O75200	-0.87849
48942	P14075	P29322	-0.90603
48943	P14075	Q6NUS8	-0.85345
48944	P14075	Q29836	-0.88446

48945	P14075	P58181	-1.1027
48946	P14075	P58294	-0.69342
48947	P14075	Q9UMR5	-0.44522
48948	P14075	Q15264	-0.22741
48949	P14075	Q7L7X3	-0.51875
48950	P14075	A7E2S9	-0.22741
48951	P14075	Q9NNW7	-0.22489
48952	P14075	Q9BXP2	-0.88229
48953	P14075	Q86XU0	-0.21172
48954	P14075	Q9BXJ4	-0.38134
48955	P14075	P84351	-0.97846
48956	P14075	Q9UGM6	-0.20393
48957	P14075	Q9UGN4	-1.0869
48958	P14075	P0C7U3	-0.89944
48959	P14075	Q7RTY0	-0.89347
48960	P14075	Q96AX1	-0.19689
48961	P14075	Q96CP6	-0.86584
48962	P14075	O95183	-0.94085
48963	P14075	Q9P0M6	-0.96746
48964	P14075	O75044	-0.22841
48965	P14075	Q14827	-0.75463
48966	P14075	Q16799	-0.53495
48967	P14075	Q00975	-0.69101
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48970	P14075	P13667	-0.24294
48971	P14075	Q9NZI8	-0.22667
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48973	P14075	P04628	-0.22741
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48975	P14075	Q9NZS9	-0.90753
48976	P14075	Q96A23	-0.22704
48977	P14075	Q96PW8	-0.21777
48978	P14075	Q9NRI6	-0.85703
48979	P14075	Q14788	-0.54969
48980	P14075	O00305	-0.22717
48981	P14075	Q9BZF1	-0.80455
48982	P14075	Q2M3R5	-0.86584
48983	P14075	B2RC85	-0.16851
48984	P14075	Q86W10	-1.0415
48985	P14075	Q8WVL7	-0.23649
48986	P14075	P01040	-0.30008
48987	P14075	P33151	-0.49426
48988	P14075	Q8NEA4	-0.14191
48989	P14075	Q5T7B8	-0.29078
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48991	P14075	Q14643	-0.29009
48992	P14075	P10588	-0.23095
48993	P14075	Q9BU40	-0.85589
48994	P14075	Q6ZV29	-0.63423
48995	P14075	P48052	-1.0972
48996	P14075	P34931	-0.61285
48997	P14075	Q9BVX2	-0.59863
48998	P14075	Q8N475	-0.95463
48999	P14075	Q9BX66	-0.22718
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49001	P14075	P13866	-0.14999
49002	P14075	Q30134	-0.67577
49003	P14075	P06314	-0.97479
49004	P14075	Q04671	-0.25064
49005	P14075	O43184	-0.63739
49006	P14075	Q95255	-1.0799
49007	P14075	Q8NHG8	-0.60833
49008	P14075	P45954	-0.48992
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49011	P14075	Q9UBV7	-0.50814
49012	P14075	P54849	-1.0046
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49014	P14075	Q9BSR8	-0.77794
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49016	P14075	A6PVC2	-0.4674
49017	P14075	P38435	-0.79484
49018	P14075	O75147	-0.37132
49019	P14075	P08183	-0.38548
49020	P14075	Q8NGU4	-1.1027

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49022	P14075	Q8N6W0	-0.43386
49023	P14075	Q9HCT0	-0.63646
49024	P14075	P11388	-0.15509
49025	P14075	Q9UFB7	-0.21172
49026	P14075	Q96PE2	-0.66532
49027	P14075	P17031	-0.21172
49028	P14075	Q9H0D2	-0.33225
49029	P14075	Q15286	-0.52175
49030	P14075	Q8NFY4	-0.66981
49031	P14075	Q5F1R6	-0.0069336
49032	P14075	P56539	-0.22458
49033	P14075	Q9C019	-0.72401
49034	P14075	Q15427	-0.67903
49035	P14075	Q9NYU1	-0.41303
49036	P14075	Q8TCD6	-0.70241
49037	P14075	P01893	-1.0633
49038	P14075	Q8N7U7	-0.34845
49039	P14075	P53609	-0.49163
49040	P14075	Q8NGR6	-1.1027
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49043	P14075	Q9H2M3	-0.29012
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49050	P14075	Q6ZUS6	-0.16615
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49054	P14075	P04839	-0.60367
49055	P14075	P01817	-0.97479
49056	P14075	Q6UWY5	-0.87849
49057	P14075	Q8IYH5	-0.21231
49058	P14075	Q9UHE5	-0.84261
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49060	P14075	Q9NVZ3	-0.55103
49061	P14075	Q7Z6J6	-0.33424
49062	P14075	P54793	-0.7695
49063	P14075	Q14815	-0.94211
49064	P14075	Q5R3F8	-0.83288
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49069	P14075	A6NMD2	-0.35868
49070	P14075	Q8NBX0	-0.64005
49071	P14075	Q9Y236	-0.25505
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49073	P14075	Q9BWD1	-0.20106
49074	P14075	Q6ICH7	-0.89197
49075	P14075	Q9Y5E3	-1.1424
49076	P14075	P27105	-0.32659
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49079	P14075	P04899	-0.27381
49080	P14075	O00754	-0.52766
49081	P14075	Q5TB30	-0.1824
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49083	P14075	Q969K7	-0.52887
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49091	P14075	Q6ZN57	-0.21172
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49107	P14075	Q6UX15	-0.87837
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49114	P14075	Q9ULH4	-0.75156
49115	P14075	Q6PEZ8	-0.90186
49116	P14075	O60721	-0.66125
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49118	P14075	Q9Y272	-0.76681
49119	P14075	C9J798	-0.91354
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49121	P14075	P32245	-0.56095
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49123	P14075	P12034	-0.60991
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49134	P14075	O60610	-0.22727
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49138	P14075	Q9UHL0	-0.51292
49139	P14075	Q9NQ90	-0.53619
49140	P14075	Q9P273	-0.95079
49141	P14075	Q9H665	-0.39621
49142	P14075	Q13018	-1.0658
49143	P14075	A6NC78	-0.43638
49144	P14075	Q8IVS2	-0.64745
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49148	P14075	P27918	-0.9223
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49150	P14075	Q9H0R6	-0.53322
49151	P14075	Q96C12	-0.10387
49152	P14075	Q8IZ41	-0.82468
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49155	P14075	Q9Y265	-0.29556
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49158	P14075	P04920	-0.72275
49159	P14075	Q9BUP0	-0.3325
49160	P14075	Q8TBR7	-0.93628
49161	P14075	P49281	-0.23582
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49163	P14075	Q9UK32	-0.6163
49164	P14075	P42166	-0.19289
49165	P14075	A8MXQ7	-0.22741
49166	P14075	Q9NV66	-1.012
49167	P14075	P48745	-0.97744
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49169	P14075	Q9NXL2	-0.7066
49170	P14075	P30461	-0.88446
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49173	P14075	O14795	-0.40805
49174	P14075	Q7KZN9	-0.71965
49175	P14075	Q8TBC3	-0.19405
49176	P14075	Q969P6	-0.51136
49177	P14075	P63133	-0.43742
49178	P14075	O75636	-0.57558
49179	P14075	Q70SY1	-0.2251
49180	P14075	P20815	-0.71887
49181	P14075	Q96P31	-0.93628
49182	P14075	Q3KRB8	-1.052
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49184	P14075	Q9Y2D5	-0.4356
49185	P14075	Q5JUK3	-1.1407
49186	P14075	O76080	-0.24455
49187	P14075	Q8NEN9	-0.42623
49188	P14075	Q08828	-0.61836
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49190	P14075	Q9P2D0	-0.22737
49191	P14075	Q07326	-0.82485
49192	P14075	P68400	-0.32874
49193	P14075	Q9H4M9	-0.41568
49194	P14075	P11245	-0.28923
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49204	P14075	O15551	-0.78541
49205	P14075	Q96RD0	-1.1027
49206	P14075	Q8NBS3	-0.63218
49207	P14075	Q96DR4	-0.71621
49208	P14075	Q9H190	-0.25748
49209	P14075	Q8TF45	-0.21172
49210	P14075	Q6P4E1	-0.86584
49211	P14075	Q86XT2	-0.11924
49212	P14075	Q9P0W0	-0.52139
49213	P14075	Q0VGL1	-0.63718
49214	P14075	Q92871	-0.45311
49215	P14075	Q14714	-0.94791
49216	P14075	Q13029	-0.22728
49217	P14075	O94778	-0.87403
49218	P14075	Q99743	-0.2286
49219	P14075	Q86X40	-0.22811
49220	P14075	Q9H6S3	-0.37984
49221	P14075	Q2KJY2	-0.76169
49222	P14075	Q9H1D0	-0.98287
49223	P14075	Q6GMV3	-0.69639
49224	P14075	P14854	-0.24108
49225	P14075	O15118	-0.56558
49226	P14075	P58872	-1.1526
49227	P14075	P53680	-0.16749
49228	P14075	Q99705	-1.0417
49229	P14075	P03950	-0.28273
49230	P14075	Q504Y0	-0.87538
49231	P14075	Q8NGX2	-1.1027
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49233	P14075	Q9UIM3	-0.36858
49234	P14075	Q16740	-0.33535
49235	P14075	O15156	-0.2478
49236	P14075	A1XBS5	-0.13235
49237	P14075	Q15760	-1.2928
49238	P14075	P25054	-0.22702
49239	P14075	Q8NAG6	-0.35498
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49241	P14075	Q9NPC8	-0.22942
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49243	P14075	P49788	-0.88408
49244	P14075	Q9Y6Q1	-0.43809
49245	P14075	Q8NGW1	-1.1027
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49247	P14075	Q8NFA2	-0.38063
49248	P14075	P09486	-0.28607

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49251	P14075	Q9NZ08	-0.57056
49252	P14075	P27449	-0.2649
49253	P14075	O60568	-0.27398
49254	P14075	P55289	-1.0566
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49256	P14075	P02647	-0.29094
49257	P14075	P58012	-0.31899
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49259	P14075	P60520	-0.10983
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49262	P14075	P08559	-0.30077
49263	P14075	Q96L15	-0.80255
49264	P14075	Q8WUW1	-0.17321
49265	P14075	Q96JW4	-0.96956
49266	P14075	Q7L8L6	-0.3676
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49269	P14075	Q99616	-0.99985
49270	P14075	O94988	-1.052
49271	P14075	Q13480	-0.22727
49272	P14075	Q9NW97	-0.86584
49273	P14075	O60245	-1.2445
49274	P14075	O94966	-0.64102
49275	P14075	P43304	-0.28992
49276	P14075	Q8N6T3	-0.27005
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49278	P14075	Q6UWY2	-1.2917
49279	P14075	Q8NGF9	-1.1027
49280	P14075	Q05469	-0.22116
49281	P14075	Q76076	-0.96543
49282	P14075	Q3SYC2	-0.7205
49283	P14075	Q9BV40	-0.62496
49284	P14075	Q9NY99	-0.42777
49285	P14075	Q9NWQ8	-0.50564
49286	P14075	Q9Y5H9	-1.1553
49287	P14075	Q9C0J8	-0.2274
49288	P14075	Q96GK7	-0.64709
49289	P14075	P18545	-0.44454
49290	P14075	Q96SR6	-0.16549
49291	P14075	Q9BYG0	-0.85902
49292	P14075	Q93008	-0.31266
49293	P14075	P60660	-0.22664
49294	P14075	O95881	-0.5611
49295	P14075	Q9H553	-0.19147
49296	P14075	P98088	-0.98968
49297	P14075	Q8N987	-0.075224
49298	P14075	P98082	-0.22612
49299	P14075	O43566	-0.22791
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49301	P14075	Q9NZQ8	-0.94188
49302	P14075	Q6UXF1	-0.52887
49303	P14075	Q9NP31	-0.68214
49304	P14075	Q14D33	-0.86584
49305	P14075	Q15042	-0.41204
49306	P14075	Q8WVF1	-0.5939
49307	P14075	Q5VST9	-0.71861
49308	P14075	O00400	-0.83932
49309	P14075	P57730	-0.63549
49310	P14075	P0CW19	-0.37384
49311	P14075	P16619	-1.0277
49312	P14075	Q15353	-0.29685
49313	P14075	Q96IW7	-0.59138
49314	P14075	Q7RTR2	-0.44148
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49316	P14075	Q96RT8	-0.16861
49317	P14075	Q05923	-0.35833
49318	P14075	Q9P1P5	-1.143
49319	P14075	Q9BY49	-0.9134
49320	P14075	Q9P2V4	-0.6774
49321	P14075	O95393	-0.25173
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49326	P14075	P51813	-0.64122
49327	P14075	Q9P241	-0.57608
49328	P14075	Q96CX6	-0.22951
49329	P14075	Q16568	-0.31051
49330	P14075	Q9P104	-0.41303
49331	P14075	O14735	-0.60949
49332	P14075	Q8N816	-0.86584
49333	P14075	F2Z333	-0.86584
49334	P14075	Q9UI42	-0.98703
49335	P14075	Q6ZSZ5	-0.61009
49336	P14075	Q2Y0W8	-0.87307
49337	P14075	Q14432	-0.61623
49338	P14075	Q96A33	-0.25307
49339	P14075	Q9H8S5	-0.41982
49340	P14075	Q86Y91	-0.28511
49341	P14075	Q9HC35	-0.37046
49342	P14075	Q15722	-1.3942
49343	P14075	Q13206	-0.80007
49344	P14075	O95976	-1.0608
49345	P14075	P26440	-0.44788
49346	P14075	Q9NY30	-0.36874
49347	P14075	Q9HBL6	-0.86584
49348	P14075	Q9GZV3	-0.89448
49349	P14075	Q9NZV8	-0.69511
49350	P14075	P07203	-0.29955
49351	P14075	Q6PCB8	-1.0252
49352	P14075	Q9HCM3	-0.86584
49353	P14075	Q8IZF6	-1.1905
49354	P14075	Q96R09	-1.1027
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49356	P14075	O94788	-0.61859
49357	P14075	P61565	-0.5818
49358	P14075	Q14011	-0.22471
49359	P14075	Q9HBU9	-0.6579
49360	P14075	P29508	-0.58014
49361	P14075	Q14330	-1.124
49362	P14075	Q6NUI2	-0.59102
49363	P14075	P28908	-0.69299
49364	P14075	O95470	-0.33234
49365	P14075	P43155	-0.46208
49366	P14075	O75616	-0.71414
49367	P14075	O75366	-0.37324
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49371	P14075	P30613	-0.3864
49372	P14075	Q9UBX0	-0.20927
49373	P14075	Q32M88	-0.46404
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49375	P14075	Q08174	-0.9346
49376	P14075	Q86VH5	-0.86584
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49378	P14075	O15165	-0.71859
49379	P14075	Q6QAJ8	-0.86584
49380	P14075	P49798	-0.54383
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49383	P14075	O00322	-0.82073
49384	P14075	Q8N6D5	-0.22741
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49386	P14075	Q9H871	-0.16302
49387	P14075	O43307	-0.6733
49388	P14075	Q93077	-0.88998
49389	P14075	O95747	-0.90348
49390	P14075	Q9H8V3	-0.22773
49391	P14075	Q8NB25	-0.16078
49392	P14075	Q15717	-0.37428
49393	P14075	Q14191	-0.25025
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49396	P14075	Q14088	-0.46426
49397	P14075	P60153	-0.85864
49398	P14075	Q6KCM7	-0.78496
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49405	P14075	P18054	-0.21769
49406	P14075	Q6PEY2	-0.62988
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49408	P14075	Q8N907	-0.65515
49409	P14075	Q9P0M4	-0.85335
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49412	P14075	Q2TAL5	-0.22782
49413	P14075	Q96S44	-0.32677
49414	P14075	Q7Z407	-0.93628
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49417	P14075	O14511	-1.1414
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49419	P14075	Q96IR7	-0.6212
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49421	P14075	Q8WXA9	-0.29676
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49427	P14075	Q6ZRR5	-0.86584
49428	P14075	Q96S66	-0.42188
49429	P14075	Q8IVI9	-0.22725
49430	P14075	Q86YL5	-0.16078
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49433	P14075	Q8IX01	-0.24061
49434	P14075	P23443	-0.21571
49435	P14075	Q14894	-0.29327
49436	P14075	Q9UKX5	-0.88325
49437	P14075	P26718	-0.54132
49438	P14075	Q96B70	-0.77771
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49446	P14075	P41273	-0.88525
49447	P14075	Q9H7X2	-0.86584
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49453	P14075	Q96A61	-0.73967
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49456	P14075	Q14656	-0.64446
49457	P14075	Q9HCN8	-0.476
49458	P14075	Q32MK0	-0.61761
49459	P14075	O43286	-0.52848
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49461	P14075	Q4V348	-0.21172
49462	P14075	Q8NGK1	-1.1027
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49465	P14075	A0MZ66	-0.59586
49466	P14075	P81605	-1.0403
49467	P14075	Q9H8Y5	-0.21579
49468	P14075	D6RA61	-0.69644
49469	P14075	Q0VF96	-0.22641
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49471	P14075	P60893	-1.1721
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49473	P14075	Q9H1Z4	-0.22741
49474	P14075	P62685	-0.40851
49475	P14075	Q9NWS6	-0.86584
49476	P14075	Q96QS6	-0.9088



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49481	P14075	O43313	-0.22741
49482	P14075	Q16527	-0.4259
49483	P14075	Q8NBF2	-0.22153
49484	P14075	Q8NGJ9	-1.1027
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49486	P14075	Q9BRR9	-1.1111
49487	P14075	P52954	-0.22925
49488	P14075	Q9H5Y7	-0.92424
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49490	P14075	Q9BUZ4	-0.22734
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49492	P14075	P0CK96	-0.86584
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49495	P14075	P04090	-0.86206
49496	P14075	A6NKD2	-0.43319
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49513	P14075	Q8IXY8	-0.3788
49514	P14075	Q9H9S4	-0.52163
49515	P14075	A6NDG6	-0.553
49516	P14075	Q6NVV3	-0.91069
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49519	P14075	Q8IX18	-0.84361
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49521	P14075	Q9NX36	-0.49341
49522	P14075	P20142	-0.74462
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49524	P14075	D6R9N7	-0.69644
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49532	P14075	Q8TB22	-1.1352
49533	P14075	P02745	-0.34908
49534	P14075	Q86W34	-0.83564
49535	P14075	Q30KR1	-0.84399
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49538	P14075	Q969N4	-1.143
49539	P14075	O60667	-0.79712
49540	P14075	P18283	-0.41613
49541	P14075	Q9C0G6	-0.69496
49542	P14075	Q9UPQ3	-1.286
49543	P14075	P21246	-0.7029
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49547	P14075	Q8IVG5	-0.02702
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49554	P14075	O60830	-0.46603
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49563	P14075	P15104	-0.60207
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49567	P14075	Q9P299	-0.070789
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49590	P14075	Q9NQQ7	-0.85789
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49593	P14075	Q8NG99	-1.1027
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49597	P14075	Q6P597	-0.10071
49598	P14075	Q7LC44	-0.44383
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49600	P14075	Q86UN2	-0.59787
49601	P14075	Q8N8N7	-0.74911
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49603	P14075	Q9P253	-0.11413
49604	P14075	Q8IZ57	-0.75625
49605	P14075	Q9P2Q2	-0.26469
49606	P14075	Q9P2A4	-0.22742
49607	P14075	Q9UK85	-0.98973
49608	P14075	Q7Z333	-0.23489
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49610	P14075	P17813	-0.20716
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49621	P14075	P49441	-0.53245
49622	P14075	Q96B97	-0.2276
49623	P14075	P47712	-0.22756
49624	P14075	A8MYB1	-0.86584
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49628	P14075	Q9NUB1	-0.23378

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49630	P14075	P04440	-0.693
49631	P14075	Q8N2F6	-0.81192
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49633	P14075	Q16280	-1.0951
49634	P14075	Q7KZI7	-0.52113
49635	P14075	O75420	-0.43008
49636	P14075	Q5T7W0	-0.22452
49637	P14075	P55073	-0.6952
49638	P14075	Q96EP9	-0.93759
49639	P14075	Q04900	-1.0189
49640	P14075	Q15012	-0.81629
49641	P14075	Q96JB6	-0.53889
49642	P14075	Q8N0X7	-0.22932
49643	P14075	Q9UP95	-0.96471
49644	P14075	P25101	-0.44549
49645	P14075	Q8N680	-0.21172
49646	P14075	Q9UNW1	-0.52951
49647	P14075	Q53T59	-0.55072
49648	P14075	Q96SK3	-0.21172
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49650	P14075	P57058	-1.1099
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49652	P14075	Q6PHW0	-0.88389
49653	P14075	Q99571	-0.46374
49654	P14075	O94967	-0.47255
49655	P14075	Q8IYA7	-0.24291
49656	P14075	Q6ZRG5	-0.12034
49657	P14075	P40198	-0.86584
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49659	P14075	Q07817	-0.22734
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49674	P14075	Q8N118	-0.8263
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49689	P14075	Q8IVU1	-0.97042
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49703	P14075	Q8N114	-0.56292
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49715	P14075	O95562	-0.62877
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50049	P14075	P62079	-0.86584
50050	P14075	Q8NH05	-1.1027
50051	P14075	Q95219	-0.21281
50052	P14075	Q9UK08	-0.79272
50053	P14075	F8WCM5	-0.65351
50054	P14075	P13473	-0.70781
50055	P14075	Q9NR83	-0.14397
50056	P14075	Q16517	-0.51742
50057	P14075	Q9H2Z4	-0.32557
50058	P14075	Q15111	-0.62893
50059	P14075	Q96Q04	-0.77148
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50063	P14075	Q86VR2	-0.86584
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50066	P14075	P46093	-1.2928
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50068	P14075	Q5K651	-0.36951
50069	P14075	Q8IUH8	-0.93896
50070	P14075	Q96AH8	-0.70724
50071	P14075	Q92982	-0.8727
50072	P14075	Q9BV47	-0.2635
50073	P14075	Q96J88	-0.16768
50074	P14075	P30954	-1.1609
50075	P14075	Q9H2C8	-1.1027
50076	P14075	O60683	-0.22742
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50078	P14075	Q8N6R0	-0.47305
50079	P14075	A5LHX3	-0.16971
50080	P14075	P36383	-0.88706
50081	P14075	Q96Q80	-0.37415
50082	P14075	Q17RS7	-0.33995
50083	P14075	Q9H2S6	-0.79575
50084	P14075	Q9HBA0	-0.42623



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50087	P14075	O95704	-0.30356
50088	P14075	P22607	-0.30636
50089	P14075	Q9UJT9	-0.22735
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50096	P14075	Q9P2C4	-0.82152
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50138	P14075	Q15427	-0.23759
50139	P14075	P14652	-0.161
50140	P14075	Q70CQ2	-0.31048
50141	P14075	P16473	-0.66399
50142	P14075	Q9BRR6	-0.72796
50143	P14075	Q8TCW9	-1.143
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50166	P14075	Q9UMX2	-0.014802
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50169	P14075	A6NET4	-1.1027
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50213	P14075	Q6HA08	-0.70098
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50473	P14075	O43448	-0.8566
50474	P14075	Q9GZX7	-0.12189
50475	P14075	Q6ZP65	-0.11478
50476	P14075	Q9UHD8	-0.22544
50477	P14075	Q9NR34	-0.70695
50478	P14075	Q7L211	-0.81246
50479	P14075	Q9BQ49	-0.86584
50480	P14075	Q7RTY9	-0.96482
50481	P14075	P51957	-0.30642
50482	P14075	Q6KF10	-0.63113
50483	P14075	Q9UHP3	-0.27522
50484	P14075	Q9P1A2	-0.16078
50485	P14075	Q8WWM9	-0.4268
50486	P14075	P31153	-0.58432
50487	P14075	Q8N423	-0.42559
50488	P14075	P58173	-1.1027
50489	P14075	O95758	-0.57231
50490	P14075	Q5M9N0	-0.11777
50491	P14075	P02652	-0.31299
50492	P14075	Q6NSI1	-0.2274
50493	P14075	P04004	-0.80232
50494	P14075	Q53HC5	-0.20343
50495	P14075	Q07890	-0.34984
50496	P14075	P04233	-0.41151
50497	P14075	Q95817	-0.22739
50498	P14075	Q9H936	-0.33532
50499	P14075	Q9P2K2	-0.88517
50500	P14075	Q96J94	-0.2266
50501	P14075	O60391	-0.73725
50502	P14075	Q14995	-0.27049
50503	P14075	Q52M93	-0.099256
50504	P14075	P52198	-0.7242
50505	P14075	Q9NUV9	-0.32264
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50507	P14075	Q9UGP8	-0.74193
50508	P14075	Q86U28	-0.24489
50509	P14075	P84074	-0.60041
50510	P14075	P68371	-0.29618
50511	P14075	Q8NDI1	-0.37554
50512	P14075	Q9ULX5	-0.6362
50513	P14075	P19256	-0.63093
50514	P14075	Q9Y5S8	-0.39958
50515	P14075	Q13131	-0.25183
50516	P14075	Q9HAC8	-0.21386
50517	P14075	Q15005	-0.69098
50518	P14075	Q15642	-0.77285
50519	P14075	Q99259	-0.38768
50520	P14075	Q9Y5S1	-0.73256
50521	P14075	P30456	-0.7844
50522	P14075	Q9UBA6	-0.13223
50523	P14075	Q9BSJ5	-0.86584
50524	P14075	O43929	-0.13968
50525	P14075	Q92664	-0.025125
50526	P14075	Q9H8M2	-0.13903
50527	P14075	O14944	-0.40842
50528	P14075	Q2M1V0	-0.21192
50529	P14075	Q9BXW7	-0.38805
50530	P14075	P54289	-0.875
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50532	P14075	P42785	-0.34532
50533	P14075	Q14147	-1.0216
50534	P14075	Q9NW82	-0.22743
50535	P14075	P55000	-1.0133
50536	P14075	Q76N89	-0.29066
50537	P14075	Q9HCE6	-0.57571
50538	P14075	Q9Y2T3	-0.47097
50539	P14075	A5X5Y0	-0.90812
50540	P14075	Q96A72	-0.19754

50541	P14075	P17948	-0.3793
50542	P14075	Q86T96	-0.67301
50543	P14075	P20020	-0.68252
50544	P14075	O95388	-0.88687
50545	P14075	O43435	-0.54474
50546	P14075	Q9BXU8	-0.43943
50547	P14075	Q3ZCQ3	-0.86584
50548	P14075	O95568	-0.20721
50549	P14075	Q96JY6	-0.22733
50550	P14075	Q53FV1	-0.91354
50551	P14075	O43808	-0.2537
50552	P14075	Q9Y2Z0	-0.22707
50553	P14075	Q9UL45	-0.12211
50554	P14075	A8K010	-0.36031
50555	P14075	Q86XT9	-0.90998
50556	P14075	P48426	-0.27164
50557	P14075	O95221	-1.1027
50558	P14075	Q7Z475	-0.85749
50559	P14075	P00374	-0.17578
50560	P14075	Q8NH70	-1.1027
50561	P14075	Q9GZY6	-0.48947
50562	P14075	Q96L96	-0.55578
50563	P14075	Q6ZVD8	-0.24576
50564	P14075	Q8TDY3	-0.30492
50565	P14075	Q9HCK4	-0.42337
50566	P14075	Q6ZV89	-0.21037
50567	P14075	P02786	-0.60937
50568	P14075	P27352	-0.90048
50569	P14075	Q9NPB0	-0.80884
50570	P14075	Q9HA82	-0.30336
50571	P14075	Q92503	-0.80813
50572	P14075	P50552	-0.21116
50573	P14075	P55317	-0.31899
50574	P14075	Q9UHC3	-0.60411
50575	P14075	Q9Y5I2	-1.4444
50576	P14075	Q7Z340	-0.21172
50577	P14075	Q6NVV9	-0.59433
50578	P14075	P0DJI9	-0.8156
50579	P14075	O15172	-0.4231
50580	P14075	P02489	-0.20195
50581	P14075	P09016	-0.1773
50582	P14075	Q86UK5	-0.62999
50583	P14075	Q8NH51	-1.1027
50584	P14075	Q8NGQ5	-1.1027
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50586	P14075	P05423	-0.17587
50587	P14075	Q68D85	-0.72744
50588	P14075	Q8NH03	-1.1027
50589	P14075	A8MUN3	-0.87849
50590	P14075	Q8N9W4	-0.16297
50591	P14075	Q8IY85	-0.22683
50592	P14075	Q8NG35	-0.84399
50593	P14075	O14718	-1.2099
50594	P14075	O75385	-0.38251
50595	P14075	Q9BZ97	-0.86584
50596	P14075	Q8N6C8	-1.0333
50597	P14075	Q0VD83	-0.70666
50598	P14075	O15047	-0.22617
50599	P14075	P17655	-0.29067
50600	P14075	Q9BQ31	-0.52055
50601	P14075	Q9Y5F7	-1.1297
50602	P14075	Q8NH40	-1.1027
50603	P14075	Q9P2D8	-0.86584
50604	P14075	Q8N201	-0.50274
50605	P14075	Q8ND24	-0.52332
50606	P14075	Q9UHE8	-0.98993
50607	P14075	Q03395	-1.2002
50608	P14075	Q5T4F4	-0.36134
50609	P14075	P37287	-0.36997
50610	P14075	Q8TDS5	-1.0612
50611	P14075	Q7Z624	-0.22651
50612	P14075	Q7RTS1	-0.22758
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50614	P14075	P13725	-0.49487
50615	P14075	A2RUG3	-0.86584
50616	P14075	Q8WXR4	-0.8093

50617	P14075	O43653	-0.60538
50618	P14075	Q6ZNL0	-0.86263
50619	P14075	O60234	-0.67785
50620	P14075	P01760	-0.97479
50621	P14075	P21128	-0.77234
50622	P14075	Q96BF3	-0.93628
50623	P14075	Q96KN2	-1.1503
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50625	P14075	Q8TD33	-0.87849
50626	P14075	Q96KB5	-0.22741
50627	P14075	Q9P1W9	-0.52518
50628	P14075	Q96DT5	-0.67619
50629	P14075	Q9NZJ7	-0.27057
50630	P14075	Q6UWK7	-0.87849
50631	P14075	P22736	-0.22906
50632	P14075	O76070	-0.30353
50633	P14075	Q8WW34	-0.86584
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50635	P14075	B7Z6K7	-0.39217
50636	P14075	Q9H8X9	-0.89944
50637	P14075	P0C7P1	-0.59537
50638	P14075	Q9Y342	-0.89096
50639	P14075	Q9NUN7	-0.4458
50640	P14075	O43610	-0.40512
50641	P14075	O15145	-0.12489
50642	P14075	Q8N136	-0.58436
50643	P14075	O95407	-0.29651
50644	P14075	Q9P0G3	-1.1305
50645	P14075	Q96FN4	-0.22759
50646	P14075	Q9BZF3	-0.26408
50647	P14075	P19086	-0.90363
50648	P14075	Q5XKR4	-0.17571
50649	P14075	O00253	-0.81898
50650	P14075	P80370	-0.72598
50651	P14075	P47736	-0.32325
50652	P14075	Q8NGA2	-1.1027
50653	P14075	Q05639	-0.44539
50654	P14075	Q7Z2T5	-0.65757
50655	P14075	A4D1P6	-0.22745
50656	P14075	Q96EN8	-0.34136
50657	P14075	A6NHY2	-0.576
50658	P14075	Q9NRD8	-0.74053
50659	P14075	Q6PIY5	-0.17617
50660	P14075	Q9HBV1	-0.6579
50661	P14075	Q8N1P7	-0.44203
50662	P14075	Q96MN2	-0.79654
50663	P14075	Q8IWA0	-0.22802
50664	P14075	Q96EX2	-0.92811
50665	P14075	O75110	-0.86794
50666	P14075	Q96DC9	-0.65183
50667	P14075	Q8N3C0	-0.22721
50668	P14075	P51587	-0.1714
50669	P14075	A6NC05	-0.42433
50670	P14075	Q96T68	-0.32933
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50673	P14075	P08118	-0.49597
50674	P14075	P01710	-0.97479
50675	P14075	O94856	-0.86743
50676	P14075	P04808	-0.97664
50677	P14075	Q96DX8	-0.16229
50678	P14075	P50224	-0.29153
50679	P14075	Q6ZUM4	-0.91582
50680	P14075	Q2UY09	-1.0331
50681	P14075	P49640	-0.2272
50682	P14075	P03999	-1.227
50683	P14075	P50443	-1.0203
50684	P14075	Q8N5C1	-0.86584
50685	P14075	Q8NH43	-1.1027
50686	P14075	Q8TE49	-0.58312
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50688	P14075	Q9NZN9	-0.21705
50689	P14075	P11586	-0.43495
50690	P14075	Q96IG2	-0.29487
50691	P14075	Q9NUQ7	-0.40752
50692	P14075	Q96R28	-1.1027



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50694	P14075	Q92743	-0.9308
50695	P14075	Q14574	-1.0091
50696	P14075	P62341	-0.47318
50697	P14075	O15270	-0.66999
50698	P14075	O43280	-0.43756
50699	P14075	P08758	-0.43719
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50701	P14075	Q9NTN3	-0.61119
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50703	P14075	Q15124	-0.10689
50704	P14075	Q6IS24	-0.7101
50705	P14075	Q8N7U6	-0.52751
50706	P14075	Q9BVK6	-0.15024
50707	P14075	Q9H267	-0.18072
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50709	P14075	A6NMZ2	-0.66242
50710	P14075	P62955	-0.86627
50711	P14075	Q16585	-0.69263
50712	P14075	P13584	-0.70951
50713	P14075	P01780	-0.97479
50714	P14075	Q30KQ1	-0.84399
50715	P14075	Q02338	-0.34511
50716	P14075	Q8N456	-0.29487
50717	P14075	Q99961	-0.26912
50718	P14075	Q6NXT2	-0.88998
50719	P14075	Q969G5	-0.41147
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50721	P14075	P54760	-0.8461
50722	P14075	Q12918	-0.96937
50723	P14075	Q8TCT8	-0.57192
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50726	P14075	Q6ZTA4	-0.58377
50727	P14075	Q9UBH0	-0.83449
50728	P14075	P30566	-0.25451
50729	P14075	Q9Y261	-0.27204
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50732	P14075	Q9BXU3	-0.73967
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50735	P14075	Q9UL01	-0.44429
50736	P14075	P01719	-0.97479
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50738	P14075	O43242	-0.12024
50739	P14075	Q6PF18	-0.067806
50740	P14075	P20338	-0.28686
50741	P14075	Q7L7L0	-0.88998
50742	P14075	P32320	-0.6532
50743	P14075	Q9UH17	-0.77806
50744	P14075	Q4G0G5	-0.87849
50745	P14075	Q8WYJ6	-0.22121
50746	P14075	Q8TDD5	-0.82991
50747	P14075	Q8NA70	-0.03722
50748	P14075	O00370	-0.42031
50749	P14075	Q8N5M9	-0.93931
50750	P14075	Q8N4X5	-0.3557
50751	P14075	O60443	-0.34603
50752	P14075	P00387	-0.36383
50753	P14075	Q14641	-1.0414
50754	P14075	Q8N554	-0.21172
50755	P14075	Q9NZC3	-0.6506
50756	P14075	Q8NGA5	-0.91257
50757	P14075	P48048	-1.167
50758	P14075	Q96DV4	-0.16032
50759	P14075	P48751	-0.94796
50760	P14075	P06307	-0.67415
50761	P14075	P15907	-0.79665
50762	P14075	Q92736	-0.35571
50763	P14075	Q9Y483	-0.26058
50764	P14075	P54707	-0.86687
50765	P14075	Q8NCR0	-0.74906
50766	P14075	Q8NEX5	-0.87849
50767	P14075	Q14722	-0.84763
50768	P14075	Q2WGN9	-0.5353

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50770	P14075	Q9NYG8	-1.0473
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50772	P14075	Q9Y6M5	-0.72385
50773	P14075	Q15404	-0.53893
50774	P14075	P43235	-0.67575
50775	P14075	O75952	-0.29309
50776	P14075	Q14689	-0.2065
50777	P14075	Q71RC2	-0.71592
50778	P14075	Q9HCX4	-0.2265
50779	P14075	Q9HC84	-0.53893
50780	P14075	Q9NZ56	-0.5398
50781	P14075	Q6UXB3	-0.60538
50782	P14075	Q9NQZ5	-0.30763
50783	P14075	Q96NJ5	-0.20421
50784	P14075	Q92997	-0.2042
50785	P14075	Q9UHB6	-0.52974
50786	P14075	Q9ULY5	-0.8681
50787	P14075	P10966	-0.72449
50788	P14075	Q86SU0	-0.69773
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50792	P14075	O43760	-0.81822
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50795	P14075	Q14055	-0.84798
50796	P14075	P43489	-0.78817
50797	P14075	P22079	-0.97622
50798	P14075	Q6PCB6	-0.40663
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50800	P14075	P01619	-0.95485
50801	P14075	Q9Y614	-0.29993
50802	P14075	P09210	-0.27596
50803	P14075	Q9H4M7	-0.39675
50804	P14075	Q8NFB2	-0.86584
50805	P14075	Q14681	-0.19405
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50808	P14075	Q9NQB0	-0.22155
50809	P14075	O15254	-0.62202
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50814	P14075	P01903	-0.7302
50815	P14075	Q6UXF7	-0.86789
50816	P14075	Q8N349	-0.62965
50817	P14075	Q2M2E5	-0.87849
50818	P14075	Q8TDX7	-0.70859
50819	P14075	Q00444	-0.22644
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50822	P14075	P62191	-0.30281
50823	P14075	P50281	-0.36436
50824	P14075	Q8NB16	-0.22741
50825	P14075	Q92610	-0.15816
50826	P14075	Q9UI15	-0.21228
50827	P14075	Q86TY3	-0.86584
50828	P14075	P43353	-0.50761
50829	P14075	B3KVV0	-0.86584
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50831	P14075	Q14CM0	-0.22741
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50833	P14075	Q5DT21	-0.25373
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50836	P14075	O75038	-0.41293
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50839	P14075	Q53F39	-0.47133
50840	P14075	Q17RW2	-0.93361
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50847	P14075	Q8TC41	-0.9974
50848	P14075	Q06124	-0.22741
50849	P14075	O75077	-1.1002
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50854	P14075	O75575	-0.6252
50855	P14075	Q15464	-0.67254
50856	P14075	Q9Y493	-1.0321
50857	P14075	O15357	-0.22741
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50859	P14075	Q56UQ5	-0.10218
50860	P14075	Q03001	-0.22805
50861	P14075	P06888	-0.97479
50862	P14075	A4D126	-0.49075
50863	P14075	Q9UJX0	-0.50043
50864	P14075	H7BZ55	-0.13249
50865	P14075	Q9UL15	-0.31905
50866	P14075	O75364	-0.20076
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50868	P14075	Q9H209	-1.1027
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50870	P14075	Q9NWT1	-0.22814
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50875	P14075	Q2TVT4	-0.38229
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50877	P14075	P0CK97	-0.86584
50878	P14075	Q99943	-0.60924
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50881	P14075	P17643	-0.45388
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50883	P14075	Q96T37	-0.22904
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50885	P14075	Q3SY52	-0.21172
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50887	P14075	Q9Y5K3	-0.40002
50888	P14075	Q9UKU7	-0.23617
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50890	P14075	Q9NUG6	-0.30967
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50893	P14075	Q96HS1	-0.6601
50894	P14075	Q96GQ7	-0.64766
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50899	P14075	Q5T2D3	-0.054622
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50903	P14075	Q14558	-0.39183
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50905	P14075	P15153	-0.67688
50906	P14075	P30291	-0.22741
50907	P14075	P98175	-0.55651
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50912	P14075	Q99570	-0.29483
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50915	P14075	P09228	-0.89477
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50931	P14075	O75348	-0.52253
50932	P14075	O94919	-0.81248
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50935	P14075	Q7RTX0	-1.06
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50940	P14075	Q53H82	-0.30367
50941	P14075	Q99941	-0.35793
50942	P14075	O95416	-0.24358
50943	P14075	Q8WWB7	-0.51637
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51321	P14075	Q9ULX7	-0.85141
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51323	P14075	Q86Y27	-0.87849
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51327	P14075	Q9UPI3	-0.84692
51328	P14075	P10163	-0.677
51329	P14075	Q69YG0	-0.86584
51330	P14075	P27338	-0.57344
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51333	P14075	Q8N142	-0.62896
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51340	P14075	Q9ULQ1	-0.51182
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51349	P14075	P01137	-0.22741
51350	P14075	Q9H239	-1.3168
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51358	P14075	P52888	-0.58101
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51360	P14075	P41217	-0.56136
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51367	P14075	Q14184	-0.43102
51368	P14075	Q9Y639	-0.80318
51369	P14075	O95278	-0.23442
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51743	P14075	Q9H251	-0.54352
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51746	P14075	Q3SY56	-0.22494
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51749	P14075	P14174	-0.27745
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51751	P14075	Q9BUL5	-0.52332
51752	P14075	Q9NYA1	-0.20843
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51756	P14075	P30504	-0.88446

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51761	P14075	P20231	-1.2917
51762	P14075	P23258	-0.21445
51763	P14075	Q9UBS0	-0.48965
51764	P14075	P58166	-0.76066
51765	P14075	Q8TCT7	-0.38509
51766	P14075	Q5TC79	-0.2271
51767	P14075	Q12912	-0.9032
51768	P14075	Q12809	-0.64378
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51772	P14075	Q8IYX1	-1.2307
51773	P14075	Q96RS6	-0.1517
51774	P14075	P01596	-0.97479
51775	P14075	Q8TCY5	-0.62644
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51783	P14075	Q8NG68	-0.6647
51784	P14075	P57796	-0.78752
51785	P14075	Q10589	-0.38238
51786	P14075	Q96HF1	-0.27719
51787	P14075	Q86WK9	-1.1105
51788	P14075	Q96HU8	-1.1897
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51790	P14075	P36956	-0.22734
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51838	P14075	Q96BT7	-0.20086
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51841	P14075	P00505	-0.21931
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51843	P14075	Q30154	-0.67577
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51859	P14075	Q96R72	-1.1027
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51863	P14075	A6NI72	-0.41347
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52023	P0C214	P22692	-0.93258
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52043	P0C214	O60218	-0.37593
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52055	P0C214	Q9HB20	-0.51215
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52058	P0C214	Q8NGB8	-1.2952
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52060	P0C214	Q9ULY5	-0.97557

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52083	P0C214	Q5VV11	-0.8305
52084	P0C214	Q8TDD1	-0.13158
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52116	P0C214	Q5VZ19	-0.83638
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52140	P0C214	Q8N912	-0.98681
52141	P0C214	Q6NUT3	-1.0564
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52154	P0C214	Q13163	-0.25073
52155	P0C214	Q9BQB6	-0.91271
52156	P0C214	Q8N9S7	-0.98681
52157	P0C214	Q9Y2R2	-0.23011
52158	P0C214	P58743	-0.88772
52159	P0C214	P27987	-0.82147
52160	P0C214	Q6ZVD7	-0.42809
52161	P0C214	Q9NPI0	-0.95467
52162	P0C214	Q5JT25	-0.96157
52163	P0C214	Q8N2C3	-0.55123
52164	P0C214	Q43759	-0.70282
52165	P0C214	Q9NQF3	-0.22041
52166	P0C214	Q6WRX3	-0.23025
52167	P0C214	A0PJE2	-0.87464
52168	P0C214	Q5H9E4	-0.80997
52169	P0C214	Q92545	-0.68883
52170	P0C214	Q99879	-0.85588
52171	P0C214	P0C6S8	-0.98681
52172	P0C214	P22314	-0.21007
52173	P0C214	P10253	-0.29796
52174	P0C214	C9JLR9	-0.66454
52175	P0C214	Q9H3T2	-1.0535
52176	P0C214	Q6UXR4	-0.63505
52177	P0C214	Q92581	-0.96945
52178	P0C214	P08048	-0.083723
52179	P0C214	Q9UJM8	-0.51815
52180	P0C214	Q9BY15	-1.6897
52181	P0C214	Q43613	-1.3887
52182	P0C214	Q9NUI1	-0.92896
52183	P0C214	Q6PIY2	-0.47338
52184	P0C214	Q8NDZ6	-0.98681
52185	P0C214	C9JR72	-0.20826
52186	P0C214	Q95395	-0.51068
52187	P0C214	P80192	-0.48984
52188	P0C214	P06493	-0.21382
52189	P0C214	Q9BYW3	-0.84189
52190	P0C214	Q7KZI7	-0.7235
52191	P0C214	P10109	-0.1987
52192	P0C214	Q8N1V8	-0.13575
52193	P0C214	Q95866	-0.94846
52194	P0C214	Q9HDB8	-0.29248
52195	P0C214	Q9Y587	-0.2073
52196	P0C214	P14621	-0.31124
52197	P0C214	Q9BX51	-0.36935
52198	P0C214	Q9UF47	-0.4424
52199	P0C214	Q9NZ38	-0.084503
52200	P0C214	Q9N2J8	-0.93452
52201	P0C214	Q8WXG9	-0.67232
52202	P0C214	Q8NEM7	-0.92974
52203	P0C214	A6NFN9	-0.22736
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52205	P0C214	P30486	-0.91186
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52207	P0C214	P0C7P1	-0.53354
52208	P0C214	Q6P1K1	-0.98817
52209	P0C214	Q8NGW6	-1.2952
52210	P0C214	Q8WXG6	-0.32135
52211	P0C214	P62805	-0.39821
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52214	P0C214	Q05952	-1.0334
52215	P0C214	Q9BXM7	-0.5656
52216	P0C214	P62807	-0.83614
52217	P0C214	P30460	-1.0938
52218	P0C214	P30874	-0.52272
52219	P0C214	Q9BRQ0	-0.24285
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52221	P0C214	Q14005	-0.22277
52222	P0C214	O94772	-0.41602
52223	P0C214	Q7RTS5	-1.0394
52224	P0C214	Q14626	-1.2308
52225	P0C214	P19652	-0.88728
52226	P0C214	Q13068	-0.33199
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52228	P0C214	Q9Y2B9	-0.55844
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52230	P0C214	Q7Z4S6	-0.26708
52231	P0C214	P78362	-0.4804
52232	P0C214	P22748	-0.18234
52233	P0C214	Q5T5P2	-0.34879
52234	P0C214	Q9NQ39	-0.14679
52235	P0C214	Q8TD33	-0.91736
52236	P0C214	Q96JQ0	-1.2131
52237	P0C214	Q9NYF3	-0.10853
52238	P0C214	Q29963	-1.0367
52239	P0C214	Q6IBS0	-0.43587
52240	P0C214	B7Z8K6	-0.98681
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52242	P0C214	A6NMN3	-0.059063
52243	P0C214	Q92968	-0.35206
52244	P0C214	O60237	-0.46085
52245	P0C214	Q86YM7	-0.36794
52246	P0C214	P18084	-0.92528
52247	P0C214	Q9Y4K0	-0.39545
52248	P0C214	P24855	-0.21831
52249	P0C214	Q8NGN4	-1.2952
52250	P0C214	P68366	-0.41598
52251	P0C214	Q96B77	-0.75609
52252	P0C214	Q5BJD5	-0.98681
52253	P0C214	Q86W33	-1.0771
52254	P0C214	Q9HCQ5	-0.72252
52255	P0C214	Q9BWW7	-0.19463
52256	P0C214	Q9BYE3	-0.38015
52257	P0C214	Q9H0K4	-0.60268
52258	P0C214	Q53S58	-0.98681
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52262	P0C214	Q43869	-1.2952
52263	P0C214	Q9H255	-1.2952
52264	P0C214	Q96HP0	-0.094025
52265	P0C214	Q8TBJ5	-0.2425
52266	P0C214	Q9GZM7	-0.90016
52267	P0C214	P08887	-0.32927
52268	P0C214	Q9NQX3	-0.52725
52269	P0C214	Q92613	-0.4489
52270	P0C214	Q9Y2B4	-0.31002
52271	P0C214	P54821	-0.22305
52272	P0C214	P35249	-0.25134
52273	P0C214	Q13630	-0.58418
52274	P0C214	Q68CR7	-0.98681
52275	P0C214	Q8WWF3	-0.98681
52276	P0C214	Q6PIU1	-1.0296
52277	P0C214	Q9NYB5	-1.1989
52278	P0C214	Q9P296	-0.7107
52279	P0C214	Q9BYC2	-0.23545
52280	P0C214	O14965	-0.22796
52281	P0C214	P14867	-0.92289
52282	P0C214	Q16676	-0.41532
52283	P0C214	Q9H5V8	-1.511
52284	P0C214	Q9Y277	-1.0818
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52287	P0C214	P32239	-0.57566
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52298	P0C214	Q96DN2	-0.95313
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52305	P0C214	P23634	-0.54417
52306	P0C214	Q86UL8	-0.22591
52307	P0C214	Q8N3Y1	-0.22741
52308	P0C214	Q8N0U7	-0.43585
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52317	P0C214	Q14507	-0.88043
52318	P0C214	Q9BYT5	-0.49292
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52322	P0C214	Q9UM19	-0.59249
52323	P0C214	Q8TBF5	-0.88976
52324	P0C214	P51800	-1.084
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52327	P0C214	P54855	-0.89351
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52331	P0C214	Q0VF96	-0.22494
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52356	P0C214	Q6ZW35	-0.5568
52357	P0C214	O75845	-0.72303
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52382	P0C214	Q9BQL6	-0.53065
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52395	P0C214	P0CG13	-0.22144
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52408	P0C214	P48058	-1.0441
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52412	P0C214	P35443	-0.7415
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52436	P0C214	O15321	-1.0525
52437	P0C214	Q96JH8	-0.96616
52438	P0C214	Q9ULV1	-0.5543
52439	P0C214	P0CW19	-0.32044
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52519	P0C214	P42330	-0.22238
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52554	P0C214	P01619	-0.99256
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52556	P0C214	O95600	-0.21031
52557	P0C214	Q6N022	-0.44746
52558	P0C214	Q86SF2	-0.58231
52559	P0C214	Q96R30	-1.2952
52560	P0C214	Q8TCU3	-1.0357
52561	P0C214	P51809	-0.21069
52562	P0C214	Q9UPM9	-0.24048
52563	P0C214	Q8TAG5	-0.91736
52564	P0C214	Q902F9	-0.85122
52565	P0C214	P55157	-0.50573
52566	P0C214	A6NGG8	-0.72868
52567	P0C214	P60008	-0.70518
52568	P0C214	Q92747	-0.26646
52569	P0C214	O15533	-0.42754
52570	P0C214	Q5TYW2	-0.48287
52571	P0C214	A9Z1Z3	-0.98681
52572	P0C214	P55774	-0.65417
52573	P0C214	A8MZ25	-0.85015
52574	P0C214	P27930	-0.87422
52575	P0C214	P59537	-1.2658
52576	P0C214	Q14582	-0.22739
52577	P0C214	Q13449	-0.22849
52578	P0C214	Q9NQ11	-1.1253
52579	P0C214	Q9Y471	-0.56696
52580	P0C214	Q9HBY0	-0.75529
52581	P0C214	P31371	-0.63226
52582	P0C214	Q9UIB8	-1.2047
52583	P0C214	Q8IY95	-1.0707
52584	P0C214	Q6EIG7	-0.88116
52585	P0C214	Q8IWG1	-0.099017
52586	P0C214	Q96DR8	-0.94838
52587	P0C214	Q9H741	-0.91736
52588	P0C214	Q9NYZ1	-0.98681
52589	P0C214	P58511	-0.68883
52590	P0C214	Q9BXJ8	-0.68883
52591	P0C214	Q7Z7H3	-0.14789
52592	P0C214	O75829	-1.4643

52593	P0C214	Q969D9	-0.84118
52594	P0C214	Q9UBF8	-0.60097
52595	P0C214	Q93033	-1.0862
52596	P0C214	Q9NRP4	-0.13466
52597	P0C214	Q8NFK1	-0.97879
52598	P0C214	Q13325	-0.22286
52599	P0C214	P51587	-0.1584
52600	P0C214	Q9H6I2	-0.15461
52601	P0C214	P41235	-0.25802
52602	P0C214	Q5J8M3	-0.88049
52603	P0C214	P0CG21	-0.22522
52604	P0C214	P20809	-0.18275
52605	P0C214	P47884	-1.3682
52606	P0C214	Q76KP1	-0.76772
52607	P0C214	Q53TN4	-0.89333
52608	P0C214	Q495M3	-0.81962
52609	P0C214	O75078	-1.2053
52610	P0C214	Q9BV87	-0.97049
52611	P0C214	P13385	-0.22748
52612	P0C214	A8MTL3	-0.50512
52613	P0C214	Q9Y4D8	-0.57912
52614	P0C214	Q04756	-1.1706
52615	P0C214	Q8NHA6	-1.2952
52616	P0C214	Q6UWU4	-0.78927
52617	P0C214	Q7RTZ2	-0.30073
52618	P0C214	Q9UEF7	-0.9287
52619	P0C214	Q86VY9	-0.98681
52620	P0C214	Q96HN2	-0.32122
52621	P0C214	P47944	-0.33287
52622	P0C214	P98194	-0.87091
52623	P0C214	Q9NRV9	-0.85992
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52626	P0C214	O14543	-0.22741
52627	P0C214	P61204	-0.42778
52628	P0C214	O43861	-0.75187
52629	P0C214	Q00722	-0.45286
52630	P0C214	A6NMD2	-0.2859
52631	P0C214	Q9UBV8	-0.22748
52632	P0C214	Q504Y0	-1.0836
52633	P0C214	Q9NXP7	-0.38101
52634	P0C214	Q71RC9	-0.98681
52635	P0C214	P0CJ69	-0.73145
52636	P0C214	Q7Z3Z4	-0.31573
52637	P0C214	P78381	-0.43516
52638	P0C214	Q9NPC8	-0.23242
52639	P0C214	Q96PN6	-0.49227
52640	P0C214	O60673	-0.85363
52641	P0C214	P24071	-1.588
52642	P0C214	Q96IK5	-0.21117
52643	P0C214	Q5VU97	-1.1355
52644	P0C214	Q6ZVW7	-0.12787
52645	P0C214	Q9Y2W3	-0.83257
52646	P0C214	Q06432	-1.1164
52647	P0C214	Q96QZ7	-0.29765
52648	P0C214	Q9NUU6	-0.40374
52649	P0C214	Q9H4G1	-0.90522
52650	P0C214	Q93086	-1.0992
52651	P0C214	Q8TAM1	-0.4103
52652	P0C214	Q5NDL2	-0.40636
52653	P0C214	Q9Y4F4	-0.15862
52654	P0C214	O00175	-0.80576
52655	P0C214	Q8N6V4	-0.16038
52656	P0C214	P30510	-1.0938
52657	P0C214	A6NKC9	-0.22741
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52659	P0C214	P01019	-0.27225
52660	P0C214	Q9NS18	-0.21569
52661	P0C214	Q9BXC1	-1.3112
52662	P0C214	Q8WZ82	-0.14656
52663	P0C214	P01920	-0.6992
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52665	P0C214	Q9P1Z0	-0.21722
52666	P0C214	Q8NCQ7	-0.44516
52667	P0C214	Q6UXF7	-0.90767
52668	P0C214	Q9H0D6	-0.13546

52669	P0C214	Q8N8G6	-0.055391
52670	P0C214	Q8TDI8	-1.01
52671	P0C214	Q8NEW0	-0.53491
52672	P0C214	O75473	-1.4073
52673	P0C214	P33763	-0.25127
52674	P0C214	Q7Z4I7	-0.24921
52675	P0C214	Q2HXU8	-1.0559
52676	P0C214	P30988	-0.70744
52677	P0C214	Q7Z7E8	-0.2095
52678	P0C214	P11117	-0.89303
52679	P0C214	A6NGA9	-0.98681
52680	P0C214	P28476	-1.0542
52681	P0C214	Q9NWQ8	-0.52919
52682	P0C214	Q580R0	-0.72903
52683	P0C214	Q14012	-0.38364
52684	P0C214	Q96RR1	-0.14904
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52692	P0C214	P84095	-0.19627
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52718	P0C214	Q92633	-0.44034
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52730	P0C214	Q8NGX0	-1.2952
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52734	P0C214	O95837	-0.91837
52735	P0C214	Q8TC36	-0.31184
52736	P0C214	Q92915	-0.32004
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52743	P0C214	Q9HAE3	-0.43585
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52747	P0C214	P83110	-0.80807
52748	P0C214	Q494U1	-0.52301
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52750	P0C214	P10827	-0.2354
52751	P0C214	Q9Y2D0	-0.20853
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52754	P0C214	Q8N139	-1.3439
52755	P0C214	B4DYI2	-0.6241
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52780	P0C214	Q96JM2	-0.22787
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52782	P0C214	Q96MN2	-0.79608
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52791	P0C214	Q60359	-1.1082
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52805	P0C214	Q8IWX5	-0.66907
52806	P0C214	Q15620	-1.2952
52807	P0C214	Q60245	-1.364
52808	P0C214	P08311	-1.1467
52809	P0C214	Q96LU7	-0.91736
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52813	P0C214	P13236	-0.91621
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52816	P0C214	Q86UV6	-0.71534
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52860	P0C214	O94886	-1.4225
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52923	P0C214	Q8NC96	-0.45396
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52939	P0C214	Q9BXA6	-0.98559
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52958	P0C214	Q6Q0C1	-0.80565
52959	P0C214	Q9GZP1	-0.92021
52960	P0C214	Q92551	-0.30625
52961	P0C214	P50851	-0.66748
52962	P0C214	O43677	-0.42419
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52965	P0C214	Q9H2H9	-1.0887
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52967	P0C214	Q6UWL6	-1.0431
52968	P0C214	P57059	-0.3836
52969	P0C214	Q7Z624	-0.15425
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52971	P0C214	P30479	-1.0367
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52973	P0C214	P35218	-0.13577
52974	P0C214	Q96LA9	-1.3693
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52977	P0C214	Q8NGA0	-1.2952
52978	P0C214	P48047	-0.2846
52979	P0C214	Q99877	-0.85588
52980	P0C214	Q969K7	-0.73074
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52982	P0C214	Q4G0W2	-0.78481
52983	P0C214	C9JXX5	-0.91736
52984	P0C214	P05165	-0.36953
52985	P0C214	A6NGZ8	-1.0708
52986	P0C214	A8MQT2	-0.37981
52987	P0C214	Q04759	-0.20639
52988	P0C214	P49757	-0.25601
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52994	P0C214	Q8NEJ0	-0.4306
52995	P0C214	Q75914	-0.77199
52996	P0C214	Q99595	-0.46637
52997	P0C214	A6NJ64	-0.065644
52998	P0C214	Q8IU54	-0.71356
52999	P0C214	P07942	-0.68656
53000	P0C214	Q9NZU5	-0.4585
53001	P0C214	Q9UPR5	-0.93282
53002	P0C214	Q5VZ46	-0.0064175
53003	P0C214	Q9UI15	-0.18701
53004	P0C214	P50226	-0.19163
53005	P0C214	A6NFZ4	-0.91736
53006	P0C214	Q86X76	-0.16747
53007	P0C214	Q14774	-0.22855
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53009	P0C214	Q9P0N8	-1.0735
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53014	P0C214	Q9NUL7	-0.13129
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53017	P0C214	Q9H672	-0.5331
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53034	P0C214	Q03169	-0.70208
53035	P0C214	Q9Y3B4	-0.22499
53036	P0C214	Q8IY67	-0.31203
53037	P0C214	Q7RTS3	-0.22885
53038	P0C214	Q9NUV7	-0.69316
53039	P0C214	P0C7P3	-0.79608
53040	P0C214	Q7RTS1	-0.22776
53041	P0C214	Q8WV93	-0.56474
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53043	P0C214	Q86SG3	-0.75801
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53048	P0C214	P25874	-0.52738

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53051	P0C214	P61567	-0.85122
53052	P0C214	Q14904	-0.84892
53053	P0C214	Q13418	-0.32161
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53057	P0C214	O43426	-0.24715
53058	P0C214	P29144	-0.051199
53059	P0C214	Q13889	-0.301
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53061	P0C214	Q07954	-0.36386
53062	P0C214	O15484	-1.017
53063	P0C214	Q96P68	-1.3112
53064	P0C214	Q96AX1	-0.18926
53065	P0C214	Q8NH56	-1.2952
53066	P0C214	P49619	-0.82659
53067	P0C214	Q9Y2D2	-0.69414
53068	P0C214	Q9BQE5	-1.2769
53069	P0C214	P12104	-0.5425
53070	P0C214	P0C5Z0	-0.83668
53071	P0C214	P15328	-0.96904
53072	P0C214	Q9Y547	-0.55751
53073	P0C214	P48739	-0.40083
53074	P0C214	Q499Y3	-0.27703
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53113	P0C214	P30838	-0.27074
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53115	P0C214	Q9Y5R8	-0.13606
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53117	P0C214	Q96CN5	-0.23148
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53122	P0C214	Q8IZN7	-0.88056
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53126	P0C214	Q8NEV9	-0.82089
53127	P0C214	O14804	-1.4683
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53148	P0C214	Q6UWL2	-1.0175
53149	P0C214	O60243	-0.64339
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53153	P0C214	Q92482	-0.64054
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53178	P0C214	P24530	-0.86243
53179	P0C214	Q99675	-0.22669
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53204	P0C214	P21549	-0.19392
53205	P0C214	Q6ZS72	-0.15111
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53226	P0C214	Q6P5S2	-0.91736
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53228	P0C214	A6NN92	-0.98604
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53230	P0C214	Q9BYZ6	-1.0009
53231	P0C214	Q9HBV1	-0.81299
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53243	P0C214	A4QN01	-0.44781
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53258	P0C214	Q8TE57	-1.3603
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53358	P0C214	Q9Y508	-1.1027
53359	P0C214	Q8WUX1	-1.0398
53360	P0C214	O75970	-0.22692
53361	P0C214	Q8WTT0	-0.93265
53362	P0C214	O00767	-0.8899
53363	P0C214	Q13046	-0.9261
53364	P0C214	P41240	-0.22745
53365	P0C214	Q9UPS8	-0.25053
53366	P0C214	P02679	-0.69048
53367	P0C214	Q5VVW2	-0.86796
53368	P0C214	O94885	-0.23214
53369	P0C214	O95274	-1.0317
53370	P0C214	P01880	-1.4762
53371	P0C214	Q71RH2	-0.91465
53372	P0C214	O14625	-1.0785
53373	P0C214	Q9BXS0	-1.5004
53374	P0C214	P09016	-0.15808
53375	P0C214	Q15197	-1.6843
53376	P0C214	Q6GTX8	-0.44182
53377	P0C214	Q6ZNG2	-0.22722
53378	P0C214	P07237	-0.25865
53379	P0C214	Q9H207	-1.2952
53380	P0C214	O95222	-1.2952
53381	P0C214	Q13835	-0.22799
53382	P0C214	Q5ZPR3	-0.40573
53383	P0C214	Q6UWU2	-0.66157
53384	P0C214	P0CJ70	-0.73145
53385	P0C214	Q96LC7	-1.6336
53386	P0C214	P60763	-0.41561
53387	P0C214	Q14647	-0.52037
53388	P0C214	Q6ZUV0	-0.14242
53389	P0C214	Q00526	-0.64973
53390	P0C214	Q7Z5L3	-1.0186
53391	P0C214	H7BZ55	-0.068611
53392	P0C214	Q6VVX0	-0.54747
53393	P0C214	Q6ZN68	-0.98681
53394	P0C214	Q96R67	-1.2952
53395	P0C214	Q8NGJ6	-1.2952
53396	P0C214	P58182	-1.2952
53397	P0C214	O60268	-0.20758
53398	P0C214	Q0VDD8	-0.65916
53399	P0C214	Q2Q1W2	-0.70431
53400	P0C214	O00469	-0.58702
53401	P0C214	Q9P2K5	-0.13467
53402	P0C214	Q13936	-0.29042
53403	P0C214	Q9BZY9	-0.33215
53404	P0C214	P04083	-0.20869
53405	P0C214	Q6PIS1	-1.0436
53406	P0C214	P17612	-0.22594
53407	P0C214	Q96ID5	-0.91736
53408	P0C214	P29803	-0.20591
53409	P0C214	Q5BJH7	-0.98681
53410	P0C214	Q9Y2G1	-0.4108
53411	P0C214	B3SHH9	-1.0708
53412	P0C214	P0DKB5	-0.98681
53413	P0C214	O15394	-1.2366
53414	P0C214	Q43766	-0.45168
53415	P0C214	P03973	-0.25542
53416	P0C214	O95562	-0.77158
53417	P0C214	Q9Y5H7	-1.2636
53418	P0C214	Q5XPI4	-0.35899
53419	P0C214	Q9Y5H9	-1.2636
53420	P0C214	P26583	-0.232
53421	P0C214	A6NKF7	-0.98681
53422	P0C214	P21757	-0.42331
53423	P0C214	P27707	-0.27911
53424	P0C214	Q9Y5G8	-1.2424
53425	P0C214	O15021	-1.1688
53426	P0C214	P35221	-0.19457
53427	P0C214	O15119	-0.47529
53428	P0C214	B7ZAP0	-0.1849

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53430	P0C214	Q96JE9	-0.24563
53431	P0C214	Q9H1C3	-0.95532
53432	P0C214	Q99592	-0.31263
53433	P0C214	P30408	-0.95083
53434	P0C214	P40259	-0.56825
53435	P0C214	Q9NYQ8	-0.79056
53436	P0C214	P05090	-0.56143
53437	P0C214	Q4G0X4	-0.1713
53438	P0C214	O95925	-0.21595
53439	P0C214	Q9HCX4	-0.22614
53440	P0C214	Q6NY19	-0.22744
53441	P0C214	O15263	-0.96793
53442	P0C214	P47888	-1.2952
53443	P0C214	P23276	-0.74498
53444	P0C214	Q16584	-0.2453
53445	P0C214	Q8WUD6	-0.58171
53446	P0C214	P03905	-0.43994
53447	P0C214	P51681	-0.52564
53448	P0C214	Q8TC99	-0.25311
53449	P0C214	Q14966	-1.0172
53450	P0C214	O15432	-1.21
53451	P0C214	P04220	-0.50976
53452	P0C214	A6NDG6	-0.36408
53453	P0C214	O95292	-0.094704
53454	P0C214	Q5VT97	-0.66144
53455	P0C214	Q9NTQ9	-1.0074
53456	P0C214	Q5VUJ6	-0.24552
53457	P0C214	P01778	-1.0022
53458	P0C214	Q0D2H9	-0.2859
53459	P0C214	P0DKX4	-0.22653
53460	P0C214	Q9C0I9	-0.22889
53461	P0C214	Q9NUM4	-0.78957
53462	P0C214	Q15036	-0.17267
53463	P0C214	Q6NXT2	-0.85588
53464	P0C214	Q8TAS1	-0.39441
53465	P0C214	O60403	-1.2952
53466	P0C214	O75556	-0.83995
53467	P0C214	P19320	-0.69809
53468	P0C214	Q9NUK0	-0.2157
53469	P0C214	P43378	-0.23003
53470	P0C214	Q9H3N8	-1.3201
53471	P0C214	Q8WVE0	-0.3351
53472	P0C214	O95502	-1.0418
53473	P0C214	Q9P244	-0.84475
53474	P0C214	Q8N129	-0.99166
53475	P0C214	Q6ZVL6	-0.98681
53476	P0C214	Q71H61	-0.98865
53477	P0C214	P14780	-0.41207
53478	P0C214	P01770	-1.0022
53479	P0C214	O75679	-0.50512
53480	P0C214	Q12951	-0.35259
53481	P0C214	P06318	-1.0022
53482	P0C214	O75469	-0.25536
53483	P0C214	Q9UNAL	-0.29282
53484	P0C214	Q8TC41	-1.0875
53485	P0C214	P56915	-0.15762
53486	P0C214	Q9BX46	-0.30598
53487	P0C214	Q99542	-1.3041
53488	P0C214	Q8N4S7	-0.98681
53489	P0C214	Q9Y6N8	-1.1619
53490	P0C214	Q06190	-0.12854
53491	P0C214	Q8NEV4	-0.87743
53492	P0C214	P01771	-1.0022
53493	P0C214	Q6PKH6	-1.3244
53494	P0C214	Q15404	-0.31328
53495	P0C214	Q9UHH9	-0.47862
53496	P0C214	O60449	-1.2173
53497	P0C214	Q12840	-0.33521
53498	P0C214	O14617	-0.14233
53499	P0C214	P82980	-0.55641
53500	P0C214	Q9H4Z3	-0.13253
53501	P0C214	Q14004	-0.20399
53502	P0C214	Q9UF33	-1.1569
53503	P0C214	Q9GZN8	-0.18353
53504	P0C214	P0CB47	-0.29699

53505	P0C214	Q8NFY9	-0.2094
53506	P0C214	O15016	-0.22732
53507	P0C214	P04431	-1.0022
53508	P0C214	Q99729	-0.24814
53509	P0C214	O43826	-0.32911
53510	P0C214	A2A2Z9	-0.22735
53511	P0C214	Q9Y5I7	-0.92966
53512	P0C214	Q5T7M9	-1.0037
53513	P0C214	Q9UQ10	-0.59209
53514	P0C214	Q14896	-0.56805
53515	P0C214	Q9BXX2	-0.22742
53516	P0C214	Q8NCB2	-0.70841
53517	P0C214	Q6NUJ5	-0.21539
53518	P0C214	Q8NG99	-1.2952
53519	P0C214	Q8NGQ1	-1.2952
53520	P0C214	Q96JP9	-1.2409
53521	P0C214	Q14953	-1.1874
53522	P0C214	Q9NSI8	-0.23982
53523	P0C214	Q3SY05	-0.039137
53524	P0C214	P01765	-1.0022
53525	P0C214	P61570	-0.85122
53526	P0C214	P78424	-0.2274
53527	P0C214	Q9H3M0	-0.98724
53528	P0C214	Q02161	-1.0475
53529	P0C214	Q13422	-0.13929
53530	P0C214	Q14249	-0.055606
53531	P0C214	Q99685	-0.35384
53532	P0C214	Q92806	-0.73081
53533	P0C214	Q9HC96	-0.56991
53534	P0C214	Q92570	-0.2647
53535	P0C214	Q5W041	-0.22782
53536	P0C214	Q8N326	-0.98681
53537	P0C214	Q9UBV7	-0.47383
53538	P0C214	O60831	-0.72835
53539	P0C214	P21108	-0.70398
53540	P0C214	Q6ICH7	-0.90754
53541	P0C214	Q8IVG5	-0.29337
53542	P0C214	Q5EG05	-0.58989
53543	P0C214	P42081	-0.26371
53544	P0C214	P07355	-0.20126
53545	P0C214	Q9BS26	-0.2403
53546	P0C214	P23945	-0.68136
53547	P0C214	Q92819	-0.7501
53548	P0C214	Q53GD3	-0.79755
53549	P0C214	Q5JPI9	-0.33624
53550	P0C214	Q9GZM8	-0.10982
53551	P0C214	Q8N543	-0.11913
53552	P0C214	P62683	-0.45806
53553	P0C214	Q6ZVN7	-0.42702
53554	P0C214	Q6ZU69	-0.98681
53555	P0C214	O14936	-0.23119
53556	P0C214	Q9NVL1	-0.45948
53557	P0C214	Q8IYM2	-0.38765
53558	P0C214	Q9NVQ4	-0.70909
53559	P0C214	A8MXK1	-0.98681
53560	P0C214	Q9Y6N1	-0.69773
53561	P0C214	Q4AE62	-0.58555
53562	P0C214	Q66K64	-0.37066
53563	P0C214	P04921	-0.57588
53564	P0C214	O43149	-0.54839
53565	P0C214	Q7Z5Y6	-0.86504
53566	P0C214	Q8IXI1	-0.43236
53567	P0C214	Q13796	-0.22719
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53569	P0C214	P07358	-0.89612
53570	P0C214	Q04900	-1.2411
53571	P0C214	P40938	-0.2068
53572	P0C214	Q6JVE6	-0.98677
53573	P0C214	P98095	-1.0049
53574	P0C214	Q9ULF5	-1.0836
53575	P0C214	P04201	-0.81109
53576	P0C214	Q9Y662	-0.58994
53577	P0C214	P51172	-0.69912
53578	P0C214	O95452	-1.0853
53579	P0C214	P04150	-0.22751
53580	P0C214	Q96EL3	-0.31848

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53582	P0C214	Q9H582	-0.19047
53583	P0C214	Q13434	-0.51207
53584	P0C214	Q9NR80	-0.22754
53585	P0C214	Q96IX5	-0.76136
53586	P0C214	Q9NRQ5	-0.68883
53587	P0C214	Q9Y570	-0.30704
53588	P0C214	Q9BQS2	-1.0708
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53590	P0C214	P50583	-0.58431
53591	P0C214	P53609	-0.41828
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53593	P0C214	P01717	-1.0022
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53595	P0C214	P98082	-0.22727
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53597	P0C214	Q9Y2W7	-0.23817
53598	P0C214	Q7RTR2	-0.42673
53599	P0C214	O60656	-0.63804
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53602	P0C214	Q9UL19	-0.44488
53603	P0C214	P30049	-0.16062
53604	P0C214	P0C7X1	-1.2827
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53606	P0C214	P01815	-1.0022
53607	P0C214	Q9Y2K1	-0.10296
53608	P0C214	Q9BXJ7	-1.0299
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53610	P0C214	P20800	-0.53907
53611	P0C214	Q6WCQ1	-0.41615
53612	P0C214	Q8NC60	-0.025123
53613	P0C214	P00973	-0.31114
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53617	P0C214	Q92888	-0.22787
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53619	P0C214	Q6P2S7	-0.20758
53620	P0C214	Q9BRV3	-0.54621
53621	P0C214	Q8IVQ6	-0.58089
53622	P0C214	Q13324	-0.82178
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53626	P0C214	O94808	-0.12236
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53628	P0C214	O75344	-0.4987
53629	P0C214	O95926	-0.22843
53630	P0C214	Q96JP0	-0.22746
53631	P0C214	Q86V88	-0.67406
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53633	P0C214	Q12756	-0.30569
53634	P0C214	Q96P67	-1.3693
53635	P0C214	O43707	-0.42895
53636	P0C214	P08173	-1.065
53637	P0C214	Q92629	-0.63136
53638	P0C214	A6ND48	-1.2952
53639	P0C214	Q96HS1	-0.62815
53640	P0C214	Q8NDX6	-0.22172
53641	P0C214	O75844	-0.99686
53642	P0C214	O95406	-0.84348
53643	P0C214	Q96RI1	-0.23084
53644	P0C214	Q9H5K3	-1.4922
53645	P0C214	Q86VR2	-0.98681
53646	P0C214	Q9ULX7	-0.92076
53647	P0C214	Q6FI13	-0.85588
53648	P0C214	Q8TD10	-0.26452
53649	P0C214	Q8WXQ8	-1.287
53650	P0C214	Q9UJT1	-0.38439
53651	P0C214	Q5VTM2	-1.0303
53652	P0C214	Q6W5P4	-1.1554
53653	P0C214	Q8TB33	-0.6185
53654	P0C214	Q13007	-0.74519
53655	P0C214	Q14246	-1.5665
53656	P0C214	O15151	-0.22307

53657	P0C214	Q01973	-0.96504
53658	P0C214	P48023	-0.25473
53659	P0C214	P62745	-0.22779
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53663	P0C214	Q9UIJ7	-0.56289
53664	P0C214	P56385	-0.17244
53665	P0C214	Q6NUM6	-0.85577
53666	P0C214	Q9BSK2	-0.80997
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53668	P0C214	Q9NYV8	-1.1936
53669	P0C214	Q07889	-0.22745
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53671	P0C214	Q13496	-0.37437
53672	P0C214	P07451	-0.1569
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53676	P0C214	P01612	-1.0022
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53679	P0C214	Q92485	-0.80753
53680	P0C214	Q6PIY5	-1.0157
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53682	P0C214	Q95365	-1.0367
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53686	P0C214	Q08554	-1.1478
53687	P0C214	Q53EP0	-0.87582
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53689	P0C214	Q8NHC5	-1.2952
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53691	P0C214	P01589	-0.62736
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53693	P0C214	Q9NX02	-0.22719
53694	P0C214	Q8N123	-0.66454
53695	P0C214	Q63HM9	-0.68628
53696	P0C214	O75864	-0.41268
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53698	P0C214	P48065	-1.1377
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53704	P0C214	O75716	-0.55405
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53712	P0C214	Q567U6	-0.22469
53713	P0C214	Q8WZA6	-1.2952
53714	P0C214	Q9UPN3	-0.22794
53715	P0C214	Q8N6R0	-0.39362
53716	P0C214	Q5TON1	-0.10701
53717	P0C214	Q6ZN80	-0.25333
53718	P0C214	P01116	-0.22801
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53720	P0C214	Q1T7F1	-0.59402
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53723	P0C214	Q9HCQ7	-1.0554
53724	P0C214	Q9H2W2	-0.21704
53725	P0C214	Q9Y6B6	-0.28937
53726	P0C214	Q13232	-0.55386
53727	P0C214	Q6DD88	-0.88583
53728	P0C214	Q16099	-0.82581
53729	P0C214	Q96AC1	-0.20983
53730	P0C214	P03886	-0.31307
53731	P0C214	O43511	-0.97903
53732	P0C214	Q96LM6	-0.13415



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53734	P0C214	Q96S86	-1.1017
53735	P0C214	Q7L5L3	-0.87221
53736	P0C214	Q6UX07	-1.3244
53737	P0C214	Q8TF72	-0.39985
53738	P0C214	Q8NGZ4	-1.2952
53739	P0C214	Q86UW2	-1.0152
53740	P0C214	Q9UBL3	-0.22103
53741	P0C214	O95704	-0.22638
53742	P0C214	Q96PL5	-0.85776
53743	P0C214	P06401	-0.22743
53744	P0C214	P09603	-0.55436
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53748	P0C214	P01210	-0.98812
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53754	P0C214	P13762	-0.71588
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53756	P0C214	Q6PJ69	-0.71534
53757	P0C214	Q9BSD7	-0.8639
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53759	P0C214	P43363	-0.035087
53760	P0C214	P25325	-0.20574
53761	P0C214	O96005	-0.78958
53762	P0C214	Q6ZMN7	-0.48694
53763	P0C214	Q96LD1	-0.6682
53764	P0C214	P55040	-0.3871
53765	P0C214	Q9HBW9	-1.3628
53766	P0C214	Q4G0N0	-0.57785
53767	P0C214	Q6UWM7	-0.79736
53768	P0C214	Q9Y639	-0.89937
53769	P0C214	Q96BA8	-0.22632
53770	P0C214	P01713	-1.0022
53771	P0C214	A8MPS7	-0.19728
53772	P0C214	A1L429	-0.47295
53773	P0C214	Q8N4Q0	-0.58644
53774	P0C214	Q99706	-0.75861
53775	P0C214	Q5JTB6	-0.91736
53776	P0C214	Q6UW32	-0.28403
53777	P0C214	Q9ULW2	-0.80184
53778	P0C214	Q5VXT5	-1.0953
53779	P0C214	Q9H015	-0.52446
53780	P0C214	Q9BUY7	-0.43585
53781	P0C214	P18065	-0.38554
53782	P0C214	P05164	-0.22471
53783	P0C214	Q92743	-0.83133
53784	P0C214	P20711	-0.43421
53785	P0C214	Q14586	-0.35691
53786	P0C214	Q5R3I4	-0.0084148
53787	P0C214	Q6ZMY6	-0.23097
53788	P0C214	Q9NP60	-1.1382
53789	P0C214	Q6ZWK4	-0.98681
53790	P0C214	Q9NW61	-0.52301
53791	P0C214	Q9UPN6	-0.21955
53792	P0C214	Q9P0V8	-0.992
53793	P0C214	Q6UXB1	-0.91736
53794	P0C214	P18428	-0.43932
53795	P0C214	P62079	-0.98681
53796	P0C214	P18462	-0.91186
53797	P0C214	Q5SWH9	-0.98681
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53799	P0C214	Q6MZW2	-0.95313
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53801	P0C214	Q15661	-0.90887
53802	P0C214	P58173	-1.2952
53803	P0C214	O75477	-0.3845
53804	P0C214	Q30134	-0.71588
53805	P0C214	P34820	-0.93595
53806	P0C214	Q07325	-1.0457
53807	P0C214	O43320	-0.8433
53808	P0C214	Q6SZW1	-0.53596

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53820	P0C214	P01764	-1.0022
53821	P0C214	Q3V6T2	-0.17081
53822	P0C214	Q86XJ1	-0.40824
53823	P0C214	Q9HCC0	-0.24364
53824	P0C214	Q92564	-0.18353
53825	P0C214	Q9UP95	-1.1803
53826	P0C214	Q96F15	-0.86834
53827	P0C214	Q8NA82	-0.52994
53828	P0C214	P24001	-1.0099
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53830	P0C214	Q9H4M9	-0.35289
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53832	P0C214	Q9UHD2	-0.22741
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53834	P0C214	P33765	-1.145
53835	P0C214	Q8NER1	-1.2053
53836	P0C214	P84074	-0.47403
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53843	P0C214	P78509	-0.58312
53844	P0C214	Q15746	-0.51498
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53856	P0C214	P0CJ68	-0.73145
53857	P0C214	Q96MI6	-0.018316
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53874	P0C214	Q8WZA1	-0.76713
53875	P0C214	Q5VT79	-0.40498
53876	P0C214	Q9BTT6	-0.30231
53877	P0C214	Q10589	-0.43908
53878	P0C214	Q96T83	-0.41445
53879	P0C214	Q16620	-0.47733
53880	P0C214	P78334	-0.97646
53881	P0C214	P30461	-1.0367
53882	P0C214	Q9BZM4	-0.49853
53883	P0C214	Q8IY34	-1.0406
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53886	P0C214	Q12889	-0.29789
53887	P0C214	P59539	-1.2886
53888	P0C214	Q9BT67	-0.43686
53889	P0C214	P30989	-1.2624
53890	P0C214	Q96HF1	-0.28419
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53894	P0C214	P30101	-0.25805
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53912	P0C214	Q8WWV3	-0.64155
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53915	P0C214	Q969R8	-0.1431
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53935	P0C214	Q6PJI1	-0.41839
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53962	P0C214	P98077	-0.22741
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53968	P0C214	P51530	-0.2314
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53987	P0C214	Q9UHW5	-0.89145
53988	P0C214	Q8WYB5	-0.42965
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53991	P0C214	P10451	-0.74836
53992	P0C214	Q8TEQ0	-0.54533
53993	P0C214	Q5T742	-0.91736
53994	P0C214	O14562	-0.13562
53995	P0C214	Q9Y6X5	-0.96166
53996	P0C214	O43521	-0.30033
53997	P0C214	Q06495	-0.60803
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54003	P0C214	Q969L2	-0.2815
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54005	P0C214	P17066	-0.49158
54006	P0C214	Q70JA7	-0.47511
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54027	P0C214	P05108	-0.26138
54028	P0C214	O75083	-0.26995
54029	P0C214	Q96HU8	-1.1932
54030	P0C214	Q07864	-0.29326
54031	P0C214	Q16558	-1.1248
54032	P0C214	Q709F0	-0.31839
54033	P0C214	A8MTW9	-0.91736
54034	P0C214	Q9NYJ7	-1.0192
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54036	P0C214	Q8TD22	-0.97609

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54038	P0C214	Q13608	-0.26377
54039	P0C214	Q8TDT2	-1.3693
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54149	P0C214	Q9NS62	-1.2392
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54165	P0C214	Q9NR19	-0.20492
54166	P0C214	A4D1S5	-1.0384
54167	P0C214	Q9UPZ6	-1.5108
54168	P0C214	P26992	-0.4607
54169	P0C214	Q6XPS3	-0.88289
54170	P0C214	Q99742	-0.25827
54171	P0C214	Q4VC39	-0.98681
54172	P0C214	Q96QT4	-1.3975
54173	P0C214	P51795	-1.0631
54174	P0C214	Q6PKX4	-0.51203
54175	P0C214	Q92772	-0.66206
54176	P0C214	Q96EY7	-0.17559
54177	P0C214	Q59H18	-0.36271
54178	P0C214	Q5TZ20	-1.2952
54179	P0C214	P46109	-0.22741
54180	P0C214	Q9H1J5	-0.56066
54181	P0C214	Q96Q15	-0.68826
54182	P0C214	Q13507	-0.501
54183	P0C214	Q8NGE9	-1.2952
54184	P0C214	Q9Y4F1	-0.57251
54185	P0C214	Q96DZ7	-0.98681
54186	P0C214	P53674	-0.54312
54187	P0C214	Q9H0M4	-0.50512
54188	P0C214	Q9NRE1	-1.3256

54189	P0C214	P01286	-0.49354
54190	P0C214	P50579	-0.49763
54191	P0C214	O43272	-0.26914
54192	P0C214	Q8NBL3	-0.98681
54193	P0C214	Q8IY49	-0.79982
54194	P0C214	Q7RTX7	-1.0372
54195	P0C214	O60674	-0.24871
54196	P0C214	Q6NSW7	-0.22773
54197	P0C214	Q16348	-0.52603
54198	P0C214	P31997	-0.7203
54199	P0C214	Q9H972	-0.91736
54200	P0C214	O75084	-0.60714
54201	P0C214	P29762	-0.86952
54202	P0C214	Q8NEN0	-0.18262
54203	P0C214	Q9H9B4	-0.89675
54204	P0C214	Q7Z4N8	-0.4482
54205	P0C214	O94907	-0.361
54206	P0C214	P59901	-0.35508
54207	P0C214	Q8N6G6	-1.1337
54208	P0C214	Q9BXT8	-0.41574
54209	P0C214	P28482	-0.22741
54210	P0C214	Q6ZUQ5	-0.91336
54211	P0C214	Q9BV94	-0.61457
54212	P0C214	Q9BRL7	-0.68977
54213	P0C214	Q9Y490	-0.22781
54214	P0C214	Q9BSN7	-0.85675
54215	P0C214	A6NM66	-0.89982
54216	P0C214	Q9H0I9	-0.37227
54217	P0C214	Q2TVT3	-0.29955
54218	P0C214	P98174	-0.87975
54219	P0C214	Q2KHM9	-0.06782
54220	P0C214	P42694	-0.49091
54221	P0C214	Q8N594	-0.73804
54222	P0C214	Q8N5Z5	-0.16371
54223	P0C214	Q8NC01	-1.262
54224	P0C214	Q8NFX0	-0.93257
54225	P0C214	Q9BXU1	-1.2407
54226	P0C214	Q02880	-0.16192
54227	P0C214	Q8NGL6	-1.2952
54228	P0C214	Q14714	-1.0888
54229	P0C214	Q13823	-0.26801
54230	P0C214	Q6V1P9	-1.2424
54231	P0C214	Q9UHA4	-0.27239
54232	P0C214	Q6ZMQ8	-0.65599
54233	P0C214	O43379	-0.22796
54234	P0C214	Q8N565	-0.57276
54235	P0C214	Q16816	-0.46926
54236	P0C214	O75871	-1.128
54237	P0C214	Q658P3	-0.58839
54238	P0C214	Q9NR64	-0.4273
54239	P0C214	Q9NZD1	-1.3693
54240	P0C214	Q99805	-1.0503
54241	P0C214	Q86SQ0	-0.49911
54242	P0C214	Q9Y689	-1.2665
54243	P0C214	P52756	-0.22506
54244	P0C214	Q30KQ9	-0.88056
54245	P0C214	Q6NVU6	-0.34709
54246	P0C214	P55081	-0.76987
54247	P0C214	P24158	-0.46643
54248	P0C214	P29590	-0.22654
54249	P0C214	P01375	-0.24327
54250	P0C214	A6NL08	-1.2952
54251	P0C214	P31947	-0.55641
54252	P0C214	P13688	-0.80396
54253	P0C214	Q8TBG4	-0.27193
54254	P0C214	C9JTO0	-0.22741
54255	P0C214	Q99572	-0.27225
54256	P0C214	O43312	-0.29208
54257	P0C214	O60336	-0.37596
54258	P0C214	P02008	-0.46567
54259	P0C214	P39060	-0.51425
54260	P0C214	Q5TGL8	-0.54533
54261	P0C214	O00116	-0.35145
54262	P0C214	Q4KWH8	-0.25445
54263	P0C214	P36959	-0.14684
54264	P0C214	Q7L4E1	-0.98681

54265	P0C214	O76062	-0.91117
54266	P0C214	Q9UBP4	-0.9026
54267	P0C214	Q12955	-0.22741
54268	P0C214	Q9BSK4	-0.22749
54269	P0C214	Q2VPA4	-0.78121
54270	P0C214	Q9Y581	-0.60828
54271	P0C214	Q9NZN4	-0.22664
54272	P0C214	O00444	-0.22741
54273	P0C214	P11234	-0.23745
54274	P0C214	P19237	-0.18071
54275	P0C214	P19525	-0.42085
54276	P0C214	Q5T197	-1.0783
54277	P0C214	Q13464	-0.30785
54278	P0C214	Q92752	-0.39116
54279	P0C214	P05305	-0.27464
54280	P0C214	Q96L12	-0.43952
54281	P0C214	Q7L7X3	-0.57651
54282	P0C214	Q15645	-0.22874
54283	P0C214	P36537	-0.92752
54284	P0C214	Q92949	-0.38543
54285	P0C214	P48764	-0.68489
54286	P0C214	O76061	-0.74653
54287	P0C214	E2RYF6	-0.98681
54288	P0C214	Q6ICL7	-0.98681
54289	P0C214	P04000	-1.453
54290	P0C214	Q96E39	-0.44003
54291	P0C214	O75071	-0.43585
54292	P0C214	P32248	-0.50702
54293	P0C214	Q5TGU0	-1.0688
54294	P0C214	Q8NGS8	-1.2952
54295	P0C214	P34741	-0.30378
54296	P0C214	Q86YT6	-0.22735
54297	P0C214	Q15646	-0.2156
54298	P0C214	Q70UQ0	-0.34738
54299	P0C214	Q9NZP8	-1.3664
54300	P0C214	Q9Y5X5	-1.4189
54301	P0C214	Q13557	-0.65284
54302	P0C214	O94856	-0.95794
54303	P0C214	Q6UWI4	-1.1983
54304	P0C214	Q86XE3	-1.0175
54305	P0C214	A6NEN9	-0.19467
54306	P0C214	P05156	-1.3079
54307	P0C214	O95279	-1.2188
54308	P0C214	Q9Y238	-0.30929
54309	P0C214	Q96PV0	-0.6626
54310	P0C214	Q9Y4E5	-0.22472
54311	P0C214	Q96LT9	-0.42505
54312	P0C214	Q86TI2	-0.37321
54313	P0C214	O95150	-1.3817
54314	P0C214	Q8N8V4	-0.48287
54315	P0C214	Q5SSQ6	-0.13628
54316	P0C214	P55317	-0.41532
54317	P0C214	O94810	-0.58404
54318	P0C214	Q8NBV8	-0.9647
54319	P0C214	Q6MZZ7	-1.0212
54320	P0C214	Q5T0D9	-0.41331
54321	P0C214	P14060	-0.51651
54322	P0C214	Q9H6S0	-0.2274
54323	P0C214	P08700	-0.4718
54324	P0C214	Q92896	-0.81147
54325	P0C214	Q6ZWK6	-1.8686
54326	P0C214	Q95674	-0.48472
54327	P0C214	Q9YNA8	-0.45806
54328	P0C214	Q96FM1	-0.75109
54329	P0C214	Q9BUA6	-0.227
54330	P0C214	Q8TB24	-0.46504
54331	P0C214	Q8WXI3	-0.5331
54332	P0C214	Q00G26	-0.37118
54333	P0C214	Q6PI73	-0.98681
54334	P0C214	Q8IXE1	-1.2952
54335	P0C214	Q6ZSC3	-0.83638
54336	P0C214	Q8N436	-1.269
54337	P0C214	P15976	-0.22739
54338	P0C214	A6NH57	-1.2665
54339	P0C214	Q3KNS1	-0.74901
54340	P0C214	O14905	-0.54299



54341	P0C214	Q6IAN0	-1.0384
54342	P0C214	P49137	-0.23
54343	P0C214	Q9UJ99	-1.2424
54344	P0C214	Q9NWW6	-0.9049
54345	P0C214	Q7Z7B1	-0.8498
54346	P0C214	Q9Y233	-0.39581
54347	P0C214	P49840	-0.22766
54348	P0C214	O00587	-0.92345
54349	P0C214	Q9BZW4	-0.81299
54350	P0C214	P20839	-0.20466
54351	P0C214	P47902	-0.2767
54352	P0C214	Q6H9L7	-0.344
54353	P0C214	Q8N1W0	-0.98681
54354	P0C214	O75908	-0.77783
54355	P0C214	Q6ZS10	-0.97565
54356	P0C214	P03891	-0.40915
54357	P0C214	Q96NC0	-0.53447
54358	P0C214	P20591	-0.23501
54359	P0C214	Q86YL5	-0.18353
54360	P0C214	P0C0E4	-0.67543
54361	P0C214	Q9NYI0	-0.54475
54362	P0C214	Q8IUW5	-0.91185
54363	P0C214	P34913	-0.25456
54364	P0C214	Q8NH54	-1.2952
54365	P0C214	A6NET4	-1.2952
54366	P0C214	Q68J44	-0.65149
54367	P0C214	Q07001	-1.0366
54368	P0C214	Q9H6U8	-0.80693
54369	P0C214	Q96EK5	-0.32893
54370	P0C214	Q6IE38	-0.77749
54371	P0C214	P31629	-0.22732
54372	P0C214	P08235	-0.22746
54373	P0C214	Q7Z4T8	-0.80988
54374	P0C214	Q6XR72	-1.1669
54375	P0C214	Q8TC26	-0.96078
54376	P0C214	Q9P2W7	-0.56921
54377	P0C214	Q8IUE0	-0.23201
54378	P0C214	Q13296	-0.24721
54379	P0C214	A6NM76	-1.2952
54380	P0C214	P0CW20	-0.50512
54381	P0C214	Q9H799	-0.98681
54382	P0C214	Q8IW75	-0.55155
54383	P0C214	Q8N9V2	-0.75157
54384	P0C214	Q15392	-0.21945
54385	P0C214	P17302	-0.31533
54386	P0C214	P43307	-0.56734
54387	P0C214	Q9GZK4	-1.2952
54388	P0C214	P19957	-0.7173
54389	P0C214	Q15506	-0.39948
54390	P0C214	P10092	-1.001
54391	P0C214	Q15208	-0.26434
54392	P0C214	Q8TE73	-0.5502
54393	P0C214	Q2M3V2	-0.22741
54394	P0C214	Q16617	-1.2123
54395	P0C214	F5H4A9	-0.98681
54396	P0C214	P18505	-1.0759
54397	P0C214	Q9P2H0	-0.44389
54398	P0C214	Q07654	-0.84074
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54400	P0C214	Q8NCT1	-0.55184
54401	P0C214	Q9UN73	-1.6431
54402	P0C214	Q8NCG7	-0.8058
54403	P0C214	Q86UY6	-0.3819
54404	P0C214	Q15399	-0.98545
54405	P0C214	Q9UBV2	-0.34821
54406	P0C214	Q96PG1	-0.98681
54407	P0C214	Q15042	-0.31761
54408	P0C214	Q69YU3	-0.22684
54409	P0C214	Q86SR1	-0.74358
54410	P0C214	P42126	-0.034152
54411	P0C214	Q9UBN1	-1.1575
54412	P0C214	Q9NVA2	-0.22707
54413	P0C214	Q9NRI6	-0.89474
54414	P0C214	Q8TCQ1	-0.93921
54415	P0C214	Q6NXR0	-0.83264
54416	P0C214	P07947	-0.59845

54417	P0C214	Q8IUA7	-1.1453
54418	P0C214	B2RD01	-0.2113
54419	P0C214	Q5VWC8	-1.0115
54420	P0C214	P0C0L5	-1.0394
54421	P0C214	A8K4G0	-1.0708
54422	P0C214	Q09MP3	-0.023296
54423	P0C214	O43490	-0.57694
54424	P0C214	Q8NBI2	-1.061
54425	P0C214	A2RUT3	-0.98681
54426	P0C214	B7ZC32	-0.80119
54427	P0C214	Q9NZC9	-0.47945
54428	P0C214	P35125	-0.50032
54429	P0C214	Q92930	-0.58923
54430	P0C214	P52757	-0.64843
54431	P0C214	Q7Z6J8	-0.23177
54432	P0C214	Q6ZU64	-0.90908
54433	P0C214	Q5VZR4	-1.0436
54434	P0C214	Q1XH10	-0.48387
54435	P0C214	P50607	-0.26587
54436	P0C214	Q8WZ55	-0.76642
54437	P0C214	P51636	-0.22504
54438	P0C214	Q16586	-0.7354
54439	P0C214	Q3B8N2	-0.39457
54440	P0C214	O43930	-1.2407
54441	P0C214	A8MZ97	-0.98681
54442	P0C214	Q9BW30	-0.30302
54443	P0C214	O43347	-0.36507
54444	P0C214	Q495T6	-1.46
54445	P0C214	P41180	-0.84305
54446	P0C214	P17050	-0.15984
54447	P0C214	Q92995	-0.23372
54448	P0C214	Q7Z2G1	-0.76613
54449	P0C214	Q53FP2	-0.71809
54450	P0C214	O95264	-1.1925
54451	P0C214	A6NFO0	-0.98681
54452	P0C214	Q5H9K5	-0.29385
54453	P0C214	E9PJI5	-0.025401
54454	P0C214	Q8NAM6	-0.23638
54455	P0C214	P20337	-0.69799
54456	P0C214	O00110	-0.15503
54457	P0C214	Q30KQ6	-0.88056
54458	P0C214	Q96CQ1	-0.77459
54459	P0C214	Q96JT2	-1.0455
54460	P0C214	P01593	-1.0022
54461	P0C214	Q9Y2J2	-0.29068
54462	P0C214	Q9HBY8	-0.72377
54463	P0C214	Q86UE6	-0.79204
54464	P0C214	Q9UFM2	-0.89114
54465	P0C214	Q8N5Y2	-0.12179
54466	P0C214	Q92565	-0.38734
54467	P0C214	Q9H334	-0.41532
54468	P0C214	Q95497	-0.71742
54469	P0C214	Q5VUM1	-0.67278
54470	P0C214	O60883	-0.77637
54471	P0C214	Q9UBC7	-0.7138
54472	P0C214	Q9Y6H3	-0.73839
54473	P0C214	Q8N609	-0.8855
54474	P0C214	O95758	-0.56471
54475	P0C214	O00178	-0.58549
54476	P0C214	Q587J8	-0.42685
54477	P0C214	Q86Y39	-0.45988
54478	P0C214	Q8WVX3	-0.98681
54479	P0C214	Q12791	-0.7169
54480	P0C214	Q15347	-0.8594
54481	P0C214	Q9NR16	-1.4817
54482	P0C214	O60662	-0.21323
54483	P0C214	A4FU01	-0.55121
54484	P0C214	Q14596	-0.20889
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54487	P0C214	P98177	-0.40394
54488	P0C214	Q8IUX1	-0.68883
54489	P0C214	Q86W92	-0.67466
54490	P0C214	Q16527	-0.46932
54491	P0C214	Q9H0F5	-0.50512
54492	P0C214	P55283	-1.1401

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54494	P0C214	O43155	-1.1933
54495	P0C214	Q6NV75	-1.3693
54496	P0C214	P16860	-0.44388
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54499	P0C214	P33778	-0.85588
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54502	P0C214	A6ND36	-0.22757
54503	P0C214	Q8NH83	-1.2952
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54505	P0C214	P36269	-0.87817
54506	P0C214	O00584	-0.74441
54507	P0C214	O15438	-1.1351
54508	P0C214	Q01970	-0.27852
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54515	P0C214	P0CJ87	-0.16414
54516	P0C214	Q8NGA6	-1.2952
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54518	P0C214	P80162	-1.1247
54519	P0C214	Q9Y3B1	-0.15381
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54527	P0C214	P08913	-0.2411
54528	P0C214	Q96GM1	-0.93907
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54532	P0C214	P06576	-0.14372
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54537	P0C214	Q8N6I4	-0.98681
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54543	P0C214	Q9BY19	-0.98681
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54545	P0C214	Q3LI77	-0.20166
54546	P0C214	P48740	-0.87654
54547	P0C214	O14662	-0.3109
54548	P0C214	Q96LR1	-0.91736
54549	P0C214	P47874	-0.4474
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54551	P0C214	Q8WXI8	-0.93265
54552	P0C214	A1L3X4	-0.42254
54553	P0C214	Q8NBF4	-0.82703
54554	P0C214	Q95139	-0.59947
54555	P0C214	O95154	-0.22092
54556	P0C214	Q9Y2L5	-0.1706
54557	P0C214	A2RU37	-0.1989
54558	P0C214	A6NDR6	-0.21675
54559	P0C214	Q9H7F0	-1.0403
54560	P0C214	P02771	-0.65138
54561	P0C214	Q8N2Y8	-0.22675
54562	P0C214	P30711	-0.22163
54563	P0C214	Q9NYD6	-0.43108
54564	P0C214	Q6Y1H2	-0.48438
54565	P0C214	Q5TZK3	-0.04921
54566	P0C214	P05976	-0.29106
54567	P0C214	A6NNJ1	-0.4589
54568	P0C214	Q5VUJ9	-0.43585

54569	P0C214	A6NFK2	-0.03943
54570	P0C214	Q5T8D3	-1.1067
54571	P0C214	Q9P0X4	-0.62558
54572	P0C214	Q15522	-0.26095
54573	P0C214	P09529	-0.22741
54574	P0C214	Q9BZC1	-0.25654
54575	P0C214	P0C7Q2	-0.69741
54576	P0C214	Q8IWR1	-1.2061
54577	P0C214	P01877	-0.50976
54578	P0C214	P00533	-0.31243
54579	P0C214	Q96S38	-0.80899
54580	P0C214	Q5T4F7	-0.77675
54581	P0C214	Q8NA58	-0.63526
54582	P0C214	Q4KMG0	-0.35849
54583	P0C214	O60941	-0.32008
54584	P0C214	Q9H8S5	-0.39247
54585	P0C214	Q9Y4C5	-0.63479
54586	P0C214	Q8IX18	-0.77805
54587	P0C214	O43852	-0.22573
54588	P0C214	Q96N68	-0.98681
54589	P0C214	Q8IV56	-0.638
54590	P0C214	Q5VWM4	-0.18615
54591	P0C214	Q9P2R3	-0.27985
54592	P0C214	Q8TCT6	-0.99257
54593	P0C214	Q6UX27	-0.98681
54594	P0C214	A6NER3	-0.60816
54595	P0C214	Q8NGH6	-1.2952
54596	P0C214	Q15884	-0.68883
54597	P0C214	P01779	-1.0022
54598	P0C214	Q9NYL5	-0.528
54599	P0C214	P20908	-0.85753
54600	P0C214	Q9GZS9	-0.47617
54601	P0C214	Q9Y5X0	-0.40463
54602	P0C214	Q8NGS6	-1.2952
54603	P0C214	P00748	-0.60146
54604	P0C214	P0CG39	-0.38765
54605	P0C214	Q9P2J3	-0.20255
54606	P0C214	A1L167	-0.67194
54607	P0C214	O43614	-1.3518
54608	P0C214	Q8NH70	-1.2952
54609	P0C214	P56856	-0.848
54610	P0C214	Q8NEA4	-0.11517
54611	P0C214	Q8N142	-0.39547
54612	P0C214	P57057	-0.97443
54613	P0C214	P04004	-0.82366
54614	P0C214	Q96QU1	-1.3225
54615	P0C214	Q99954	-0.91736
54616	P0C214	Q9NY84	-0.33234
54617	P0C214	P56589	-0.12578
54618	P0C214	Q8WUD1	-0.77833
54619	P0C214	P15863	-0.22682
54620	P0C214	Q15296	-0.46936
54621	P0C214	Q5SZK8	-1.4536
54622	P0C214	Q8N1M1	-0.91971
54623	P0C214	Q9NPH2	-0.54033
54624	P0C214	Q8N7N1	-0.055554
54625	P0C214	Q9H8H2	-0.338
54626	P0C214	A6NJU9	-0.98681
54627	P0C214	Q9NTX9	-0.04622
54628	P0C214	Q86T90	-0.20707
54629	P0C214	Q6ZRI0	-0.66955
54630	P0C214	P42701	-0.73672
54631	P0C214	P18206	-0.20775
54632	P0C214	Q9Y397	-0.70848
54633	P0C214	Q9Y5G3	-1.2424
54634	P0C214	O15544	-0.67091
54635	P0C214	Q8NCM8	-0.43246
54636	P0C214	P27487	-0.70014
54637	P0C214	Q15245	-0.40297
54638	P0C214	Q9H7Y2	-0.27824
54639	P0C214	A6ND91	-0.7364
54640	P0C214	Q14161	-0.23698
54641	P0C214	O14753	-0.29421
54642	P0C214	P29016	-0.62997
54643	P0C214	Q9NXS2	-1.0945
54644	P0C214	Q6IWH7	-0.45612

54645	P0C214	Q4W4Y0	-0.63884
54646	P0C214	P08575	-0.34371
54647	P0C214	O75355	-1.1801
54648	P0C214	Q14451	-0.22741
54649	P0C214	P35790	-0.61618
54650	P0C214	Q9H341	-1.2952
54651	P0C214	Q9BYP7	-0.45398
54652	P0C214	Q6P4A8	-0.45052
54653	P0C214	Q86VD7	-0.66584
54654	P0C214	P04196	-0.28551
54655	P0C214	Q9H4E7	-0.22741
54656	P0C214	Q8N954	-0.39914
54657	P0C214	P26012	-1.2383
54658	P0C214	Q9H205	-1.2952
54659	P0C214	D6RJB6	-0.68518
54660	P0C214	Q5K131	-0.20758
54661	P0C214	Q9NZV6	-0.13595
54662	P0C214	A6NI61	-0.98681
54663	P0C214	Q6P2H8	-0.98681
54664	P0C214	Q9H427	-1.1424
54665	P0C214	A5D6W6	-0.77048
54666	P0C214	Q96IK1	-0.012134
54667	P0C214	Q6ZMI3	-1.2082
54668	P0C214	Q8TDW0	-1.0037
54669	P0C214	Q96AM1	-1.3693
54670	P0C214	Q99538	-0.64768
54671	P0C214	P51858	-0.21171
54672	P0C214	Q8N0S2	-0.16346
54673	P0C214	Q6ZS82	-1.0698
54674	P0C214	O43396	-0.22825
54675	P0C214	P25445	-0.22727
54676	P0C214	Q9NP91	-1.1842
54677	P0C214	A6NL28	-0.29368
54678	P0C214	Q96BI3	-0.34109
54679	P0C214	P51684	-1.1744
54680	P0C214	Q9UKY0	-0.34335
54681	P0C214	Q9Y5B8	-0.70715
54682	P0C214	O75459	-0.38374
54683	P0C214	Q14517	-0.23434
54684	P0C214	O75335	-0.1517
54685	P0C214	Q9UKY1	-0.2274
54686	P0C214	P15173	-0.22736
54687	P0C214	Q53F39	-0.51572
54688	P0C214	Q9NZR1	-0.21917
54689	P0C214	Q8N0W3	-0.93952
54690	P0C214	P28039	-0.88145
54691	P0C214	P60896	-0.15849
54692	P0C214	Q9BRR6	-0.77432
54693	P0C214	Q96FT7	-1.2399
54694	P0C214	Q7Z601	-1.128
54695	P0C214	Q15040	-0.72233
54696	P0C214	P19526	-0.7367
54697	P0C214	Q9NP73	-0.28612
54698	P0C214	Q8WUZ0	-0.33895
54699	P0C214	Q8IYU2	-0.22782
54700	P0C214	Q6ZU45	-0.39457
54701	P0C214	Q8N0X7	-0.13672
54702	P0C214	Q9NYA1	-0.26894
54703	P0C214	Q13261	-0.4352
54704	P0C214	Q8WW52	-0.81299
54705	P0C214	Q8TDU9	-1.335
54706	P0C214	Q6XYQ8	-1.0629
54707	P0C214	A4D250	-0.33675
54708	P0C214	Q9P2X3	-0.18101
54709	P0C214	Q8IY17	-0.71611
54710	P0C214	Q15717	-0.57001
54711	P0C214	Q9UPQ4	-0.22779
54712	P0C214	P51788	-0.90934
54713	P0C214	Q9Y485	-0.22743
54714	P0C214	Q9P035	-1.0869
54715	P0C214	P40933	-0.27067
54716	P0C214	Q8NH03	-1.2952
54717	P0C214	B1AK53	-0.51673
54718	P0C214	Q8NDZ4	-0.83496
54719	P0C214	P0C7W6	-0.13802
54720	P0C214	Q9BQD1	-0.56791

54721	P0C214	P43007	-0.54743
54722	P0C214	Q8NGJ4	-1.2952
54723	P0C214	Q96HR9	-0.98681
54724	P0C214	O75509	-0.22578
54725	P0C214	Q9Y3S2	-0.10903
54726	P0C214	Q13315	-0.44317
54727	P0C214	Q5T700	-0.98681
54728	P0C214	Q8TF05	-0.15402
54729	P0C214	Q9Y6A9	-0.53438
54730	P0C214	Q96A70	-0.038898
54731	P0C214	Q9H9L4	-0.45156
54732	P0C214	P19438	-0.31578
54733	P0C214	D6RCP7	-0.68518
54734	P0C214	O43175	-0.51586
54735	P0C214	Q6PL45	-0.98681
54736	P0C214	Q5T292	-0.98681
54737	P0C214	Q9NXL6	-0.91092
54738	P0C214	Q9P2D8	-0.98681
54739	P0C214	P32119	-0.29039
54740	P0C214	Q7Z6L0	-1.064
54741	P0C214	O00400	-0.94595
54742	P0C214	P15502	-0.14543
54743	P0C214	P21583	-0.45765
54744	P0C214	P29353	-0.22741
54745	P0C214	Q9Y3C1	-0.18063
54746	P0C214	Q5VXD3	-0.0332
54747	P0C214	Q92753	-1.033
54748	P0C214	Q9H9Y4	-0.6802
54749	P0C214	Q7Z5P9	-0.90685
54750	P0C214	P19447	-0.14629
54751	P0C214	Q7Z7K0	-0.18613
54752	P0C214	Q15831	-0.26695
54753	P0C214	Q9H8K7	-0.43972
54754	P0C214	Q3B7T3	-0.87241
54755	P0C214	Q6P6C2	-0.57832
54756	P0C214	Q92913	-0.31486
54757	P0C214	Q96RD0	-1.2952
54758	P0C214	Q13585	-1.4161
54759	P0C214	O15403	-1.1703
54760	P0C214	Q8TF64	-0.22484
54761	P0C214	Q96B70	-0.67915
54762	P0C214	Q96MV1	-0.68883
54763	P0C214	P28328	-0.3544
54764	P0C214	P13686	-0.39267
54765	P0C214	Q49AG3	-0.55088
54766	P0C214	Q16696	-0.62217
54767	P0C214	Q9P2X8	-0.35071
54768	P0C214	C9JUS6	-1.1259
54769	P0C214	Q9H8M1	-0.23946
54770	P0C214	Q12774	-0.75885
54771	P0C214	Q15118	-0.46314
54772	P0C214	Q9ULJ8	-0.41778
54773	P0C214	Q9BSJ5	-0.98681
54774	P0C214	Q9GZZ7	-1.0094
54775	P0C214	P13747	-1.0692
54776	P0C214	P48553	-0.17947
54777	P0C214	Q8IYD2	-0.22522
54778	P0C214	Q6IEE8	-0.95194
54779	P0C214	Q9UPQ7	-0.56751
54780	P0C214	P28799	-0.22794
54781	P0C214	P22105	-1.0596
54782	P0C214	Q08AF8	-0.2859
54783	P0C214	Q96J94	-0.2263
54784	P0C214	O43609	-0.26657
54785	P0C214	Q9Y6G1	-0.98681
54786	P0C214	Q9HB14	-1.2288
54787	P0C214	P52943	-0.44
54788	P0C214	Q8NGX9	-1.2952
54789	P0C214	P48544	-0.7323
54790	P0C214	Q8NGG3	-1.2952
54791	P0C214	Q6ZNJ1	-0.32342
54792	P0C214	Q6MZN7	-0.38852
54793	P0C214	Q8IUH8	-1.0278
54794	P0C214	Q8N5G2	-0.62213
54795	P0C214	Q6UXM1	-0.98681
54796	P0C214	Q9H330	-0.81299

54797	P0C214	Q96D21	-0.94485
54798	P0C214	Q07283	-0.29861
54799	P0C214	O00254	-0.97288
54800	P0C214	Q02809	-0.55149
54801	P0C214	Q14761	-1.0489
54802	P0C214	Q6GV28	-1.0024
54803	P0C214	Q9UKV5	-0.22823
54804	P0C214	Q96Q07	-0.58994
54805	P0C214	Q9BZG1	-0.91772
54806	P0C214	Q8N9B8	-0.73193
54807	P0C214	Q5TCZ1	-0.22741
54808	P0C214	P37231	-0.26157
54809	P0C214	P02766	-0.17288
54810	P0C214	Q86U37	-0.60229
54811	P0C214	O14944	-0.48145
54812	P0C214	Q12923	-0.22741
54813	P0C214	O43315	-0.67302
54814	P0C214	Q96QV6	-0.85588
54815	P0C214	Q96IY4	-0.94716
54816	P0C214	Q9UN42	-0.35144
54817	P0C214	Q8IZT8	-0.27647
54818	P0C214	Q96R72	-1.2952
54819	P0C214	Q6ZNC8	-0.69218
54820	P0C214	Q9NRD8	-0.76447
54821	P0C214	Q92903	-0.74839
54822	P0C214	O60934	-0.15931
54823	P0C214	Q5VTH9	-0.22744
54824	P0C214	A6NC97	-0.98681
54825	P0C214	P0C7X0	-0.4589
54826	P0C214	Q9UKJ8	-1.2887
54827	P0C214	Q8NGE3	-1.2952
54828	P0C214	Q9UIJ5	-0.99572
54829	P0C214	Q68CL5	-0.21344
54830	P0C214	Q96MM6	-0.79608
54831	P0C214	Q9Y334	-0.64701
54832	P0C214	Q92902	-0.52211
54833	P0C214	Q92989	-0.15957
54834	P0C214	Q96JB1	-0.62964
54835	P0C214	Q9NYV7	-0.64542
54836	P0C214	Q6ZN44	-1.0433
54837	P0C214	Q9BWX5	-0.22739
54838	P0C214	Q9H6D3	-0.98681
54839	P0C214	Q3B7I2	-0.17461
54840	P0C214	Q6GMR7	-0.87595
54841	P0C214	Q8N423	-0.45701
54842	P0C214	A8MTJ3	-0.73361
54843	P0C214	B7U540	-1.2189
54844	P0C214	Q8WUA2	-0.38077
54845	P0C214	Q8NH93	-1.2952
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54847	P0C214	Q9H5Q3	-0.98681
54848	P0C214	Q6NXE6	-0.21549
54849	P0C214	Q9UQB9	-0.57814
54850	P0C214	Q6E213	-0.79857
54851	P0C214	P01701	-1.0022
54852	P0C214	A6NP81	-0.37981
54853	P0C214	Q6ZVS7	-0.43859
54854	P0C214	Q96BY6	-0.66174
54855	P0C214	Q8NGC0	-1.2952
54856	P0C214	P05162	-0.39028
54857	P0C214	Q9BVM2	-0.2822
54858	P0C214	Q15551	-0.99197
54859	P0C214	P01350	-1.0655
54860	P0C214	P51693	-0.26061
54861	P0C214	Q9UNP4	-0.67456
54862	P0C214	P22792	-0.86564
54863	P0C214	Q86UP0	-1.023
54864	P0C214	Q8NGI4	-1.2952
54865	P0C214	Q9NYL9	-0.29166
54866	P0C214	Q8WUU5	-0.2272
54867	P0C214	O00476	-0.77711
54868	P0C214	Q494W8	-1.0778
54869	P0C214	Q5SY16	-0.45053
54870	P0C214	Q8N8V8	-0.98681
54871	P0C214	Q96HP4	-0.22348
54872	P0C214	Q14512	-0.57483

54873	P0C214	Q9H930	-0.34114
54874	P0C214	Q9BR61	-0.22741
54875	P0C214	Q06416	-0.22741
54876	P0C214	Q95180	-0.85048
54877	P0C214	Q96KN9	-1.0688
54878	P0C214	Q02641	-0.6176
54879	P0C214	Q4G0X9	-0.32204
54880	P0C214	P35228	-0.32354
54881	P0C214	Q86XH1	-0.79608
54882	P0C214	Q9Y546	-0.17029
54883	P0C214	Q14672	-0.28932
54884	P0C214	Q96A26	-0.18073
54885	P0C214	A1L4H1	-0.95759
54886	P0C214	Q15260	-0.19661
54887	P0C214	Q00519	-0.82548
54888	P0C214	Q96SF7	-0.41663
54889	P0C214	P01130	-0.44573
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54891	P0C214	P57771	-0.61728
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54893	P0C214	Q02127	-0.4165
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54895	P0C214	A0PJW8	-0.44169
54896	P0C214	Q8NHP7	-0.60515
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54899	P0C214	Q9HCP0	-1.0717
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54901	P0C214	P12931	-0.23173
54902	P0C214	Q9BTT0	-0.22741
54903	P0C214	Q8NH64	-1.2952
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54905	P0C214	H0YL14	-0.46493
54906	P0C214	Q6EMB2	-0.12486
54907	P0C214	Q8IUC0	-0.077263
54908	P0C214	Q96EG1	-0.32979
54909	P0C214	Q7Z4P5	-0.22741
54910	P0C214	P61106	-0.29701
54911	P0C214	Q8NEM8	-0.38962
54912	P0C214	P15382	-0.97232
54913	P0C214	P31639	-0.83341
54914	P0C214	Q96RM1	-0.2479
54915	P0C214	Q76EJ3	-0.63179
54916	P0C214	Q15622	-1.2952
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54919	P0C214	P10916	-0.22543
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54921	P0C214	P08123	-0.37949
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54938	P0C214	Q95976	-1.1759
54939	P0C214	Q13753	-1.1361
54940	P0C214	P01854	-0.41729
54941	P0C214	P58872	-1.3684
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54944	P0C214	P0C870	-0.11471
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54947	P0C214	Q12952	-0.4103
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54949	P0C214	P63123	-0.6957
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54954	P0C214	Q96SB8	-0.21361
54955	P0C214	P13637	-0.61238
54956	P0C214	Q9HD20	-0.7304
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54958	P0C214	O75880	-0.21635
54959	P0C214	Q8NGR2	-1.2952
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54962	P0C214	Q7Z6B7	-0.43873
54963	P0C214	Q07507	-1.173
54964	P0C214	Q8N2A8	-0.55256
54965	P0C214	Q9NR90	-0.75801
54966	P0C214	Q8N688	-0.88056
54967	P0C214	Q9NZQ7	-0.70382
54968	P0C214	Q9BYE0	-0.22636
54969	P0C214	Q9NYY8	-0.32177
54970	P0C214	Q9BX10	-0.90266
54971	P0C214	Q96MK3	-0.91736
54972	P0C214	Q8NG85	-1.1265
54973	P0C214	Q9UKH3	-0.85122
54974	P0C214	Q9Y4E6	-0.22747
54975	P0C214	Q9P0M4	-0.87194
54976	P0C214	O60879	-0.2217
54977	P0C214	Q9H9A6	-0.2317
54978	P0C214	Q12766	-0.23444
54979	P0C214	P52926	-0.062532
54980	P0C214	Q6IAA8	-0.40903
54981	P0C214	Q12912	-0.93608
54982	P0C214	Q9NVJ2	-0.59293
54983	P0C214	P51654	-0.47063
54984	P0C214	P35325	-0.2479
54985	P0C214	A6NK06	-0.36882
54986	P0C214	Q5T7N3	-0.2274
54987	P0C214	P32004	-0.65588
54988	P0C214	Q9BUN5	-0.63945
54989	P0C214	Q6IFN5	-1.2952
54990	P0C214	Q9C0J9	-0.22559
54991	P0C214	Q6P3S1	-0.12681
54992	P0C214	Q96NB2	-0.97609
54993	P0C214	Q9BZJ7	-1.1924
54994	P0C214	P46597	-0.16205
54995	P0C214	P02818	-0.55584
54996	P0C214	Q7Z7D3	-1.101
54997	P0C214	Q15915	-0.31424
54998	P0C214	Q9H2H0	-0.19418
54999	P0C214	Q9Y6F7	-0.22365
55000	P0C214	O60486	-0.99272
55001	P0C214	Q9HB31	-0.22681
55002	P0C214	Q8NH41	-1.2952
55003	P0C214	P10644	-0.22757
55004	P0C214	Q9BWE0	-0.58982
55005	P0C214	Q6ZMW3	-0.22759
55006	P0C214	P28222	-0.8663
55007	P0C214	Q53GG5	-0.41219
55008	P0C214	Q9NVS9	-0.027624
55009	P0C214	Q969X1	-0.98989
55010	P0C214	Q99439	-0.2082
55011	P0C214	Q8N4F7	-1.0783
55012	P0C214	P56705	-0.30212
55013	P0C214	Q2KJY2	-0.80519
55014	P0C214	P52803	-0.49682
55015	P0C214	Q8TDL5	-1.0742
55016	P0C214	Q6ZMT4	-0.22913
55017	P0C214	Q9UGL1	-0.26184
55018	P0C214	Q9Y365	-0.74002
55019	P0C214	P0C0S5	-0.92069
55020	P0C214	Q8IWB4	-0.98681
55021	P0C214	Q8IY26	-0.96166
55022	P0C214	P25101	-0.48302
55023	P0C214	Q9ULU8	-0.11091
55024	P0C214	Q8WUT9	-0.80565

55025	P0C214	Q687X5	-1.3336
55026	P0C214	Q9H0W7	-0.32228
55027	P0C214	Q9NX78	-0.98681
55028	P0C214	Q99726	-0.90508
55029	P0C214	P49441	-0.46325
55030	P0C214	Q9NVR7	-0.17738
55031	P0C214	Q6BEB4	-0.2213
55032	P0C214	Q5TCY1	-0.82205
55033	P0C214	P09601	-0.1228
55034	P0C214	P29371	-0.92965
55035	P0C214	A9YTQ3	-0.27229
55036	P0C214	Q5JT82	-0.22177
55037	P0C214	P78312	-0.29935
55038	P0C214	Q8NBL1	-0.2348
55039	P0C214	P63096	-0.3141
55040	P0C214	Q9C0D4	-0.22744
55041	P0C214	Q9Y241	-0.82147
55042	P0C214	P08842	-0.51189
55043	P0C214	P14207	-0.98281
55044	P0C214	Q5H9R4	-0.98681
55045	P0C214	Q6NXP0	-0.95381
55046	P0C214	O15460	-0.47484
55047	P0C214	P84077	-0.22902
55048	P0C214	Q9Y696	-0.22286
55049	P0C214	Q8NFX3	-0.55617
55050	P0C214	P29320	-0.94117
55051	P0C214	Q8IX95	-0.28306
55052	P0C214	Q9Y5X1	-0.2793
55053	P0C214	Q03135	-0.22638
55054	P0C214	Q8N9H6	-0.034833
55055	P0C214	Q96N46	-0.4166
55056	P0C214	Q9Y228	-0.35508
55057	P0C214	A8MQB9	-0.22741
55058	P0C214	Q96GY3	-0.45808
55059	P0C214	P39210	-0.58066
55060	P0C214	Q96NS8	-0.018396
55061	P0C214	Q01968	-0.22792
55062	P0C214	Q9H7D0	-0.40717
55063	P0C214	O14843	-1.6115
55064	P0C214	P31260	-0.22701
55065	P0C214	Q8NH67	-1.2952
55066	P0C214	A2A2Y4	-0.68387
55067	P0C214	Q8N4P2	-0.50241
55068	P0C214	Q8N3J2	-0.36903
55069	P0C214	Q67FW5	-0.41123
55070	P0C214	Q9BYV7	-0.46619
55071	P0C214	Q96AX2	-0.89422
55072	P0C214	P0DJR0	-0.96471
55073	P0C214	Q9UQ07	-1.0007
55074	P0C214	P51397	-0.21764
55075	P0C214	Q9NXN4	-0.38751
55076	P0C214	Q02763	-0.47591
55077	P0C214	Q14541	-0.38874
55078	P0C214	P55786	-0.32617
55079	P0C214	Q8WUY1	-0.91736
55080	P0C214	P13631	-0.23293
55081	P0C214	Q5T4S7	-0.35117
55082	P0C214	O14678	-1.3375
55083	P0C214	Q9H2U9	-1.1794
55084	P0C214	Q5HYJ1	-0.76161
55085	P0C214	Q96EV2	-0.83638
55086	P0C214	A6NCV1	-1.2952
55087	P0C214	P15086	-1.287
55088	P0C214	A6NHN0	-0.96884
55089	P0C214	P01825	-1.0022
55090	P0C214	Q9UKA8	-0.78337
55091	P0C214	Q94778	-1.0787
55092	P0C214	Q96MR6	-0.22769
55093	P0C214	Q96SE0	-0.69679
55094	P0C214	P63215	-0.41166
55095	P0C214	Q99853	-0.41085
55096	P0C214	Q16827	-0.53797
55097	P0C214	P28907	-0.64576
55098	P0C214	Q9UGT4	-0.96099
55099	P0C214	P08100	-0.71432
55100	P0C214	Q9Y282	-0.78142

55101	P0C214	Q9NYS0	-0.84929
55102	P0C214	Q8IYM1	-0.22475
55103	P0C214	O95399	-0.59883
55104	P0C214	Q5JTV8	-0.51115
55105	P0C214	Q99519	-0.4571
55106	P0C214	Q99678	-1.4957
55107	P0C214	P30512	-0.91186
55108	P0C214	Q12948	-0.29235
55109	P0C214	A6NMD0	-1.064
55110	P0C214	Q13151	-0.26254
55111	P0C214	O60882	-0.85194
55112	P0C214	Q14667	-0.91736
55113	P0C214	Q9BYC5	-0.54985
55114	P0C214	Q9UNG2	-0.86667
55115	P0C214	P41181	-0.34079
55116	P0C214	Q8N1W1	-0.8064
55117	P0C214	P05455	-0.3878
55118	P0C214	Q9P273	-1.1028
55119	P0C214	Q9P241	-0.58105
55120	P0C214	Q4G0J3	-0.22017
55121	P0C214	Q6ZU15	-0.22368
55122	P0C214	Q96M34	-0.09465
55123	P0C214	P01744	-1.0022
55124	P0C214	P30464	-1.0367
55125	P0C214	Q13470	-0.7828
55126	P0C214	Q8WU08	-1.3207
55127	P0C214	Q8NGE0	-1.2952
55128	P0C214	Q9Y698	-0.63528
55129	P0C214	O76002	-1.2952
55130	P0C214	O00294	-0.36848
55131	P0C214	P48547	-0.98724
55132	P0C214	Q9NTJ5	-0.52247
55133	P0C214	P0C2L3	-0.98681
55134	P0C214	Q8N465	-0.20576
55135	P0C214	P01706	-1.0022
55136	P0C214	P35503	-0.8501
55137	P0C214	P01566	-0.71883
55138	P0C214	Q13241	-1.0935
55139	P0C214	Q96MA6	-0.47964
55140	P0C214	Q6UWJ8	-0.98681
55141	P0C214	Q9Y5Y5	-0.44781
55142	P0C214	P07585	-0.49159
55143	P0C214	Q5T751	-0.38015
55144	P0C214	Q9Y4K3	-0.22725
55145	P0C214	P51571	-0.65893
55146	P0C214	O75443	-0.99641
55147	P0C214	Q9Y3S1	-1.1702
55148	P0C214	O75881	-0.51397
55149	P0C214	P49674	-0.22741
55150	P0C214	Q504U0	-0.27328
55151	P0C214	Q9H6D5	-0.98681
55152	P0C214	Q0ZGT2	-0.35338
55153	P0C214	A6NDA9	-0.98681
55154	P0C214	Q9UH36	-0.41298
55155	P0C214	P06326	-1.0022
55156	P0C214	Q86T96	-0.58527
55157	P0C214	Q93098	-0.80171
55158	P0C214	P63092	-0.54439
55159	P0C214	Q96SK2	-0.98681
55160	P0C214	Q9H977	-0.22736
55161	P0C214	Q6IEE7	-0.98681
55162	P0C214	Q9BUF7	-0.92813
55163	P0C214	Q96H78	-0.80565
55164	P0C214	Q08648	-0.88362
55165	P0C214	P20827	-0.46321
55166	P0C214	P35556	-0.83671
55167	P0C214	Q16134	-0.22056
55168	P0C214	P30533	-0.7323
55169	P0C214	P23280	-0.68336
55170	P0C214	Q9NRW1	-0.63446
55171	P0C214	Q15057	-1.0294
55172	P0C214	Q9HC24	-0.19929
55173	P0C214	Q96I45	-0.98681
55174	P0C214	Q9NXD2	-0.55121
55175	P0C214	Q86X53	-0.14321
55176	P0C214	Q4UJ75	-0.2274

55177	P0C214	Q8N414	-0.98681
55178	P0C214	Q6UWT4	-0.91736
55179	P0C214	A6NE21	-0.4589
55180	P0C214	Q96GE9	-0.98681
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55184	P0C214	Q5R3F8	-0.95344
55185	P0C214	Q7Z3H0	-0.2274
55186	P0C214	Q96AZ6	-0.19409
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55188	P0C214	Q9BT09	-0.32649
55189	P0C214	O14523	-0.68883
55190	P0C214	P35346	-1.1308
55191	P0C214	P25054	-0.22681
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55193	P0C214	Q9H579	-0.079275
55194	P0C214	P08910	-0.66325
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55196	P0C214	Q9H1X1	-0.44205
55197	P0C214	Q02446	-0.13842
55198	P0C214	P36954	-0.16568
55199	P0C214	Q53S99	-0.5499
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55201	P0C214	Q96CG8	-0.73068
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55203	P0C214	Q8TDW7	-1.4117
55204	P0C214	P55061	-0.51254
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55207	P0C214	P51606	-0.27424
55208	P0C214	P20930	-0.40867
55209	P0C214	Q96NL6	-0.14957
55210	P0C214	Q9UK28	-0.79982
55211	P0C214	P35504	-0.97135
55212	P0C214	O75298	-0.46631
55213	P0C214	O15041	-0.85205
55214	P0C214	Q9UIG8	-1.1989
55215	P0C214	P47869	-0.82539
55216	P0C214	Q06710	-0.22707
55217	P0C214	Q52LW3	-0.72533
55218	P0C214	Q92947	-0.24005
55219	P0C214	Q8N5D6	-0.6078
55220	P0C214	Q6PI78	-0.75609
55221	P0C214	O95372	-0.19563
55222	P0C214	P01876	-0.41163
55223	P0C214	P19876	-0.97179
55224	P0C214	O14627	-0.29666
55225	P0C214	Q6UXN2	-0.91736
55226	P0C214	Q8N8F6	-1.0037
55227	P0C214	Q8NCW6	-0.5869
55228	P0C214	P55268	-0.80007
55229	P0C214	Q96J84	-0.81456
55230	P0C214	Q96IG2	-0.22598
55231	P0C214	Q8IW40	-0.18192
55232	P0C214	O75037	-0.67393
55233	P0C214	Q8WWU5	-1.3128
55234	P0C214	O00151	-0.22741
55235	P0C214	A6NM03	-1.2952
55236	P0C214	P29275	-0.82343
55237	P0C214	Q9NZB2	-0.37969
55238	P0C214	Q8WWB3	-0.013127
55239	P0C214	P57768	-0.68853
55240	P0C214	Q5JXC2	-0.4392
55241	P0C214	Q9HBL6	-0.98681
55242	P0C214	P49746	-0.94297
55243	P0C214	Q8NG98	-1.2952
55244	P0C214	Q12967	-0.54874
55245	P0C214	Q5VUB5	-0.98681
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55247	P0C214	Q8N9C0	-0.22749
55248	P0C214	Q6S8J3	-0.38765
55249	P0C214	Q96K78	-1.3853
55250	P0C214	Q9NXR8	-0.22728
55251	P0C214	O95665	-1.3975
55252	P0C214	A6PVI3	-0.8081

55253	P0C214	Q6DCA0	-0.071313
55254	P0C214	P49761	-0.7439
55255	P0C214	Q9NQZ6	-0.42254
55256	P0C214	Q9BXJ2	-0.68193
55257	P0C214	P55851	-0.50535
55258	P0C214	P21860	-0.61908
55259	P0C214	Q9BYI3	-0.48045
55260	P0C214	Q9BSL1	-0.2225
55261	P0C214	Q86XR2	-0.52301
55262	P0C214	Q8NGJ3	-1.2952
55263	P0C214	Q04844	-1.1406
55264	P0C214	P29558	-0.25391
55265	P0C214	P07919	-0.41924
55266	P0C214	Q6NWX9	-0.22341
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55268	P0C214	Q5T2P9	-1.0294
55269	P0C214	Q9UGN4	-1.2382
55270	P0C214	P0C7X4	-0.29051
55271	P0C214	Q16706	-0.46346
55272	P0C214	Q504Y2	-0.99732
55273	P0C214	Q4G0U5	-0.50373
55274	P0C214	P62330	-0.42603
55275	P0C214	Q86UW1	-1.0595
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55277	P0C214	Q6UW15	-0.91675
55278	P0C214	O95907	-0.78934
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55280	P0C214	Q70Z35	-0.72616
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55284	P0C214	Q8NAA5	-0.16402
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55286	P0C214	Q8WYK1	-1.3356
55287	P0C214	O95935	-0.40485
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55290	P0C214	Q9BXE9	-1.3002
55291	P0C214	Q9N2K0	-0.62374
55292	P0C214	P0CF75	-0.05181
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55305	P0C214	Q15113	-1.2719
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55311	P0C214	P47224	-0.55593
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55319	P0C214	Q5T754	-0.38015
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55322	P0C214	P09486	-0.2232
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55358	P0C214	Q9NTU7	-0.76207
55359	P0C214	O15498	-0.18567
55360	P0C214	Q8TEJ3	-0.50512
55361	P0C214	Q70CQ1	-0.31198
55362	P0C214	Q5TA76	-0.38015
55363	P0C214	Q9C0B1	-0.23129
55364	P0C214	O60667	-0.90345
55365	P0C214	Q9BR10	-0.89158
55366	P0C214	O60861	-0.34896
55367	P0C214	Q8TCD1	-0.61485
55368	P0C214	Q3KRB8	-0.86358
55369	P0C214	Q12794	-0.33847
55370	P0C214	Q10713	-0.40299
55371	P0C214	O95177	-0.18353
55372	P0C214	P18074	-0.28613
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55376	P0C214	Q86XD8	-0.50512
55377	P0C214	Q0P651	-0.91736
55378	P0C214	Q07973	-0.22911
55379	P0C214	Q9NUQ8	-0.87884
55380	P0C214	P00734	-0.45085
55381	P0C214	Q8NFD4	-0.30518
55382	P0C214	Q8TBG9	-0.94619
55383	P0C214	Q9H329	-0.25073
55384	P0C214	Q5H9T9	-0.5213
55385	P0C214	Q9NZJ5	-0.3484
55386	P0C214	Q969K4	-0.22725
55387	P0C214	O60830	-0.50724
55388	P0C214	P08319	-0.20261
55389	P0C214	O94782	-0.42029
55390	P0C214	O43908	-0.96426
55391	P0C214	P25024	-1.2132
55392	P0C214	Q5SYC1	-0.69334
55393	P0C214	Q7Z5B4	-0.71488
55394	P0C214	Q8N6C5	-0.65285
55395	P0C214	Q96II8	-0.91736
55396	P0C214	Q9BWW8	-1.0734
55397	P0C214	P41586	-0.59151
55398	P0C214	Q6UWF3	-0.34152
55399	P0C214	Q8TD30	-0.19922
55400	P0C214	P28329	-0.18886
55401	P0C214	Q9ULL4	-0.7135
55402	P0C214	Q86WIO	-0.98681
55403	P0C214	Q6P575	-0.19901
55404	P0C214	P52198	-0.70255

55405	P0C214	Q9BQI3	-0.84511
55406	P0C214	Q9UN74	-1.2636
55407	P0C214	Q7L0Q8	-0.36903
55408	P0C214	P40199	-0.25911
55409	P0C214	Q96Q27	-0.66772
55410	P0C214	Q9UQD0	-0.9573
55411	P0C214	O60331	-0.35222
55412	P0C214	Q9NT99	-1.0004
55413	P0C214	Q8NGP8	-1.2952
55414	P0C214	Q8IWI9	-0.4242
55415	P0C214	Q9BYN0	-0.47116
55416	P0C214	Q96FC9	-0.38741
55417	P0C214	Q9BZ19	-0.2274
55418	P0C214	A8MWA6	-0.4589
55419	P0C214	Q8N999	-0.090687
55420	P0C214	Q9BYB0	-0.22741
55421	P0C214	Q9H649	-0.33624
55422	P0C214	Q9NQ34	-1.154
55423	P0C214	Q5VU13	-0.98681
55424	P0C214	P0CG40	-0.19253
55425	P0C214	Q6UWN0	-0.5764
55426	P0C214	P34810	-1.0275
55427	P0C214	Q96RK4	-0.22665
55428	P0C214	P30505	-1.0367
55429	P0C214	Q4KMQ1	-0.45897
55430	P0C214	Q9Y6U3	-0.29323
55431	P0C214	P78380	-1.4301
55432	P0C214	A4D2B8	-0.39214
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55434	P0C214	Q9UKL4	-1.0832
55435	P0C214	O60266	-0.56609
55436	P0C214	Q8NFM7	-0.69272
55437	P0C214	Q13286	-0.17968
55438	P0C214	Q9NUT2	-0.62919
55439	P0C214	P22897	-1.1051
55440	P0C214	Q8N109	-1.0708
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55444	P0C214	P56851	-0.82364
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55446	P0C214	Q86UU1	-0.52301
55447	P0C214	Q99963	-0.31555
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55449	P0C214	P42262	-0.93198
55450	P0C214	Q00765	-0.21357
55451	P0C214	Q96BJ3	-0.45398
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55456	P0C214	Q9Y2C4	-0.098871
55457	P0C214	P17948	-0.48463
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55459	P0C214	Q8N6L1	-0.67463
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55461	P0C214	Q9NXC5	-0.2263
55462	P0C214	O15243	-0.68545
55463	P0C214	Q5XKL5	-0.22537
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55465	P0C214	Q8IY45	-0.20179
55466	P0C214	P55316	-0.41532
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55471	P0C214	P40227	-0.19434
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55473	P0C214	Q96BM0	-0.98681
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55475	P0C214	Q8NCY6	-0.065644
55476	P0C214	Q9BVV8	-0.77898
55477	P0C214	Q9NVC3	-0.81407
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55484	P0C214	O75106	-0.49297
55485	P0C214	P16591	-0.41626
55486	P0C214	Q8WXI4	-0.1301
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55491	P0C214	P80365	-0.52984
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55494	P0C214	Q8N6N7	-0.61775
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55583	P0C214	Q96CW9	-0.74489
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55645	P0C214	Q9BT17	-0.10278
55646	P0C214	P30530	-0.63499
55647	P0C214	P63267	-0.39475
55648	P0C214	Q9NZQ0	-0.78863
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55650	P0C214	P25021	-1.4311
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55655	P0C214	Q9Y446	-0.22807
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55776	P0C214	P62068	-0.46476
55777	P0C214	Q92839	-0.85236
55778	P0C214	P49768	-0.22289
55779	P0C214	Q14766	-0.43122
55780	P0C214	A6NCW7	-0.30213
55781	P0C214	A2A3K4	-0.71613
55782	P0C214	P30301	-1.1216
55783	P0C214	P28290	-0.35638
55784	P0C214	Q9HBR0	-1.1771

55785	P0C214	O95450	-1.2613
55786	P0C214	P13797	-0.32347
55787	P0C214	Q9H1Z8	-0.80456
55788	P0C214	P03901	-0.42752
55789	P0C214	Q9BW04	-0.29935
55790	P0C214	Q8NGR6	-1.2952
55791	P0C214	Q6ZUX3	-0.097719
55792	P0C214	Q99988	-0.77866
55793	P0C214	Q86WT1	-0.50241
55794	P0C214	Q96A59	-0.84376
55795	P0C214	Q16563	-0.98975
55796	P0C214	A6NCM1	-0.79608
55797	P0C214	Q9H5L6	-0.55088
55798	P0C214	Q8IUS5	-0.96166
55799	P0C214	O76039	-0.49198
55800	P0C214	Q8N1L4	-0.97132
55801	P0C214	O75385	-0.4743
55802	P0C214	Q7Z6K5	-0.23568
55803	P0C214	O43464	-0.22471
55804	P0C214	P08912	-1.0465
55805	P0C214	Q15811	-0.31503
55806	P0C214	O60262	-0.51873
55807	P0C214	Q9UIY3	-0.29624
55808	P0C214	Q96IZ6	-0.33624
55809	P0C214	P61366	-1.1198
55810	P0C214	P61626	-0.86778
55811	P0C214	P40197	-0.92253
55812	P0C214	P00505	-0.20588
55813	P0C214	A6NCJ1	-0.3091
55814	P0C214	Q4VX62	-0.1487
55815	P0C214	Q13003	-0.94341
55816	P0C214	Q07108	-1.099
55817	P0C214	Q9Y616	-0.30805
55818	P0C214	Q7Z5M5	-0.98681
55819	P0C214	O43157	-0.83634
55820	P0C214	Q9BPW4	-1.0671
55821	P0C214	Q86VL8	-1.0494
55822	P0C214	A6NC86	-0.89611
55823	P0C214	O75051	-1.123
55824	P0C214	Q96IX9	-0.16285
55825	P0C214	Q8N3Z3	-0.74164
55826	P0C214	O96009	-1.1301
55827	P0C214	F7VJQ1	-0.42406
55828	P0C214	O95164	-0.74538
55829	P0C214	Q15760	-1.4957
55830	P0C214	F2Z398	-0.41303
55831	P0C214	Q7Z4H8	-0.1732
55832	P0C214	P09544	-0.43968
55833	P0C214	Q9P246	-0.61618
55834	P0C214	Q9BY76	-0.37622
55835	P0C214	O95379	-0.1799
55836	P0C214	P63218	-0.4962
55837	P0C214	Q16342	-0.16744
55838	P0C214	O95715	-0.89554
55839	P0C214	P08218	-1.4261
55840	P0C214	Q6BCY4	-0.34316
55841	P0C214	P58753	-0.22054
55842	P0C214	O00602	-1.1459
55843	P0C214	P51911	-0.38086
55844	P0C214	Q8IVF2	-0.20826
55845	P0C214	P62191	-0.35984
55846	P0C214	P16401	-0.72649
55847	P0C214	Q9ULI3	-0.96819
55848	P0C214	Q969X2	-0.61243
55849	P0C214	A3KMH1	-1.0829
55850	P0C214	Q7L8L6	-0.32177
55851	P0C214	Q8WXH0	-0.22951
55852	P0C214	P29972	-0.22715
55853	P0C214	P43632	-1.2123
55854	P0C214	Q96KB5	-0.4858
55855	P0C214	Q9ULT0	-0.32174
55856	P0C214	Q6UX41	-0.35508
55857	P0C214	O43824	-0.96471
55858	P0C214	Q9Y210	-0.39204
55859	P0C214	P21796	-0.30218
55860	P0C214	P46199	-0.58895

55861	P0C214	Q9HC56	-1.1927
55862	P0C214	O94779	-0.59994
55863	P0C214	O43524	-0.41532
55864	P0C214	Q8NBX0	-0.43884
55865	P0C214	Q9UBL6	-0.5363
55866	P0C214	Q9UPX6	-0.98681
55867	P0C214	Q2M329	-0.029736
55868	P0C214	Q6B0K9	-0.45631
55869	P0C214	A2RU67	-0.98681
55870	P0C214	Q14624	-0.57174
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55874	P0C214	Q92696	-0.51284
55875	P0C214	Q9HBG6	-0.22744
55876	P0C214	Q01167	-0.36066
55877	P0C214	O95477	-0.43326
55878	P0C214	Q2VIR3	-0.6952
55879	P0C214	Q96QZ0	-1.0838
55880	P0C214	Q9H6S1	-0.052705
55881	P0C214	Q94933	-1.0742
55882	P0C214	Q3KRA9	-0.10644
55883	P0C214	Q9H7Z6	-0.18465
55884	P0C214	Q9BQ24	-0.42806
55885	P0C214	Q96HH9	-0.25422
55886	P0C214	Q5TAG4	-0.36785
55887	P0C214	Q9Y5W3	-0.22321
55888	P0C214	Q6ZRP7	-0.97665
55889	P0C214	Q96SL1	-1.1692
55890	P0C214	Q8N7Q2	-0.91736
55891	P0C214	Q86TM6	-0.23017
55892	P0C214	Q12981	-0.10322
55893	P0C214	Q8WZ94	-1.2952
55894	P0C214	Q9Y230	-0.22743
55895	P0C214	Q16777	-0.85588
55896	P0C214	Q86WG5	-0.22743
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55898	P0C214	Q5JPE7	-1.0413
55899	P0C214	Q86Y07	-0.43576
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55902	P0C214	Q8WXE0	-0.22745
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55904	P0C214	Q8NGC1	-1.2952
55905	P0C214	Q8IV04	-1.2827
55906	P0C214	Q8N6Q3	-0.50559
55907	P0C214	O95050	-0.16927
55908	P0C214	O60519	-0.14698
55909	P0C214	Q14995	-0.37837
55910	P0C214	Q8NGX8	-1.2952
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55912	P0C214	P55010	-0.10332
55913	P0C214	O15244	-0.93928
55914	P0C214	Q16880	-0.70214
55915	P0C214	Q9Y264	-0.73807
55916	P0C214	O95832	-0.97302
55917	P0C214	Q03154	-0.24963
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55919	P0C214	P01133	-0.76051
55920	P0C214	Q86YR5	-0.22223
55921	P0C214	Q96EU7	-0.82951
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55924	P0C214	Q9NQT5	-0.44261
55925	P0C214	P06317	-0.99256
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55928	P0C214	Q05397	-0.22741
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55931	P0C214	P56730	-1.2241
55932	P0C214	Q8N118	-0.70829
55933	P0C214	O14610	-1.1179
55934	P0C214	Q7Z5H5	-1.1124
55935	P0C214	Q8NG97	-1.2952
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55937	P0C214	Q86UK0	-1.3672
55938	P0C214	Q16394	-0.46165
55939	P0C214	O76100	-1.2952
55940	P0C214	Q5JU85	-0.21972
55941	P0C214	Q9UBK5	-1.069
55942	P0C214	Q8N680	-0.083723
55943	P0C214	P35367	-0.68735
55944	P0C214	Q5T5X7	-0.11998
55945	P0C214	P43166	-0.19393
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55947	P0C214	Q06187	-0.22741
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55949	P0C214	Q99490	-0.59454
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55955	P0C214	Q969T7	-0.047656
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55957	P0C214	Q5JUX0	-0.37965
55958	P0C214	A6NH21	-0.97303
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55964	P0C214	P11498	-0.42457
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55966	P0C214	Q9NX31	-0.11226
55967	P0C214	Q3SY77	-0.90861
55968	P0C214	Q9NUM3	-1.0836
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55971	P0C214	Q99523	-0.36449
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55974	P0C214	Q9Y239	-0.22739
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55976	P0C214	Q7Z3F1	-1.0676
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55978	P0C214	Q8IYK8	-1.1932
55979	P0C214	Q13077	-0.17747
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55982	P0C214	Q6NT55	-0.69915
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55984	P0C214	Q9H1P6	-0.18083
55985	P0C214	Q6PJ21	-0.5331
55986	P0C214	Q9H374	-0.72842
55987	P0C214	Q9Y328	-0.7787
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55992	P0C214	P02462	-0.51698
55993	P0C214	Q9Y644	-1.0555
55994	P0C214	P0CJ85	-0.16414
55995	P0C214	Q5VUJ5	-1.0294
55996	P0C214	Q8TDN7	-0.60836
55997	P0C214	Q92620	-0.22361
55998	P0C214	Q9NYQ7	-1.0944
55999	P0C214	Q03014	-0.22807
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56001	P0C214	Q8NBE8	-0.19752
56002	P0C214	Q7Z429	-0.98681
56003	P0C214	Q3MIR4	-0.35115
56004	P0C214	Q68CQ7	-0.74069
56005	P0C214	P08519	-1.1816
56006	P0C214	Q8N511	-0.98681
56007	P0C214	Q9NYQ3	-0.25089
56008	P0C214	Q14254	-0.72551
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56010	P0C214	Q9C0B2	-0.12572
56011	P0C214	Q8IUR5	-0.75609
56012	P0C214	P50150	-0.54426

56013	P0C214	Q9NS64	-0.80271
56014	P0C214	O00501	-0.7858
56015	P0C214	Q8TED9	-0.46227
56016	P0C214	Q95343	-0.22794
56017	P0C214	Q9NRJ5	-0.17595
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56022	P0C214	H3BUK9	-0.22725
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56024	P0C214	Q99645	-0.92179
56025	P0C214	Q7L1W4	-0.98681
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56027	P0C214	Q9BYJ0	-0.86444
56028	P0C214	Q86Y34	-1.3853
56029	P0C214	P35247	-0.43654
56030	P0C214	O95760	-0.38649
56031	P0C214	Q8N531	-0.51574
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56033	P0C214	Q8N9M1	-0.023837
56034	P0C214	Q8N6F1	-0.44274
56035	P0C214	Q96S15	-0.45616
56036	P0C214	Q9UH65	-0.56066
56037	P0C214	Q15942	-0.32073
56038	P0C214	Q8IZP1	-1.2827
56039	P0C214	P55083	-1.2222
56040	P0C214	Q9NPJ1	-0.15858
56041	P0C214	O43610	-0.43155
56042	P0C214	Q9HAP6	-0.19381
56043	P0C214	Q9H305	-0.07579
56044	P0C214	Q7Z6W1	-0.98681
56045	P0C214	Q96PZ7	-0.98681
56046	P0C214	Q9HAW9	-0.659
56047	P0C214	Q96PY6	-0.22741
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56049	P0C214	P08F94	-0.23083
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56051	P0C214	Q8NH61	-1.2952
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56053	P0C214	P39656	-0.19615
56054	P0C214	O14732	-0.2329
56055	P0C214	P52566	-0.51291
56056	P0C214	Q499Z3	-0.79608
56057	P0C214	Q9UHI8	-1.306
56058	P0C214	Q8IXI2	-0.33467
56059	P0C214	Q02223	-1.3232
56060	P0C214	A6NIZ1	-0.74546
56061	P0C214	A6NHG9	-1.2952
56062	P0C214	A6NC78	-0.37981
56063	P0C214	Q8TDV0	-1.3693
56064	P0C214	Q92858	-0.22837
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56068	P0C214	P19875	-0.97131
56069	P0C214	Q14718	-1.3888
56070	P0C214	Q9H1V8	-0.9145
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56082	P0C214	Q9H346	-1.2952
56083	P0C214	A6QL63	-1.0965
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56087	P0C214	Q53FA7	-0.64036
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56090	P0C214	P16233	-0.61422
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56094	P0C214	Q68D85	-0.93944
56095	P0C214	Q9NTI2	-1.0697
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56097	P0C214	P46940	-0.22741
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56101	P0C214	Q6P1J6	-0.71654
56102	P0C214	Q9NY15	-1.1582
56103	P0C214	P52951	-0.22726
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56105	P0C214	Q8IXK2	-0.73137
56106	P0C214	Q9GZT4	-0.4994
56107	P0C214	Q9UMW8	-0.45297
56108	P0C214	Q8TC59	-0.55926
56109	P0C214	Q9NS85	-0.34215
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56115	P0C214	Q5VZ03	-0.16181
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56126	P0C214	Q15768	-0.86965
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56147	P0C214	P10082	-0.69632
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56151	P0C214	P21728	-0.32528
56152	P0C214	Q96P20	-0.22707
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56154	P0C214	Q96Q04	-1.2112
56155	P0C214	Q9Y2L9	-0.26704
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56157	P0C214	Q96QV1	-0.42496
56158	P0C214	O15539	-0.76174
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56160	P0C214	Q9H920	-1.0783
56161	P0C214	Q13107	-0.35011
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56164	P0C214	P01733	-0.44807



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56180	P0C214	O95630	-0.24974
56181	P0C214	Q5SQQ9	-0.3036
56182	P0C214	O43900	-0.26954
56183	P0C214	Q02388	-0.62042
56184	P0C214	O95528	-0.60707
56185	P0C214	P00450	-0.94146
56186	P0C214	Q8TB73	-0.86415
56187	P0C214	Q7L014	-0.60027
56188	P0C214	Q9H5Y0	-0.2859
56189	P0C214	O60488	-0.56616
56190	P0C214	Q9NYA3	-0.2859
56191	P0C214	Q8N568	-1.0774
56192	P0C214	A6NGC4	-0.98681
56193	P0C214	Q8IX94	-0.81992
56194	P0C214	Q5QJ74	-0.23577
56195	P0C214	O75912	-0.22741
56196	P0C214	O14830	-0.21772
56197	P0C214	Q9UKP6	-0.96774
56198	P0C214	Q96MM7	-0.59466
56199	P0C214	Q5T5C0	-0.52894
56200	P0C214	P06312	-1.0022
56201	P0C214	P0C645	-1.2952
56202	P0C214	Q5TF58	-0.084201
56203	P0C214	Q9Y5X3	-0.79611
56204	P0C214	Q5T6X5	-1.2746
56205	P0C214	Q969P0	-0.34763
56206	P0C214	P78417	-0.2242
56207	P0C214	Q9BYJ1	-0.48697
56208	P0C214	A8MWD9	-0.16074
56209	P0C214	P15813	-0.67056
56210	P0C214	Q5XXA6	-1.0542
56211	P0C214	Q96J65	-1.1097
56212	P0C214	O14545	-0.66741
56213	P0C214	O95490	-1.1827
56214	P0C214	Q9H3S4	-0.28538
56215	P0C214	Q6PFW1	-0.064016
56216	P0C214	Q8NCN4	-0.17709
56217	P0C214	P0DJD9	-1.1989
56218	P0C214	O15520	-0.32915
56219	P0C214	Q9H9J4	-0.84851
56220	P0C214	P01906	-0.79506
56221	P0C214	Q8TCW9	-1.3342
56222	P0C214	P07099	-0.8671
56223	P0C214	Q4VC12	-0.49269
56224	P0C214	Q6ZWB6	-0.19644
56225	P0C214	P04208	-1.0022
56226	P0C214	P01766	-1.0022
56227	P0C214	Q8NE28	-1.0731
56228	P0C214	Q8NGF0	-1.2952
56229	P0C214	Q86XQ3	-1.0332
56230	P0C214	Q86WR6	-0.15272
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56232	P0C214	P32856	-0.30568
56233	P0C214	Q969N2	-0.63272
56234	P0C214	H3BV60	-0.98681
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56236	P0C214	Q16204	-0.29368
56237	P0C214	Q8TE82	-0.28306
56238	P0C214	Q08477	-0.81459
56239	P0C214	Q96Q45	-0.98089
56240	P0C214	Q8WV92	-0.19003

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56242	P0C214	P62195	-0.75491
56243	P0C214	Q9BR26	-0.97085
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56246	P0C214	Q96FG2	-0.55394
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56248	P0C214	O15013	-0.22782
56249	P0C214	Q9NSU2	-0.20404
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56251	P0C214	P52739	-0.56039
56252	P0C214	P34998	-0.63061
56253	P0C214	Q8N475	-0.95313
56254	P0C214	Q53FE4	-0.28004
56255	P0C214	Q3MIN7	-0.90137
56256	P0C214	Q9GZQ6	-1.2964
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56258	P0C214	P19544	-0.22188
56259	P0C214	Q6UXH8	-1.0874
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56261	P0C214	Q9NRM2	-0.14987
56262	P0C214	Q8NGF3	-1.2952
56263	P0C214	Q8N682	-1.0165
56264	P0C214	Q96G61	-0.3229
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56266	P0C214	Q93038	-1.1264
56267	P0C214	P60985	-1.0044
56268	P0C214	Q5T0U0	-0.039041
56269	P0C214	Q9BZM5	-0.92749
56270	P0C214	A6NMV5	-0.18615
56271	P0C214	Q86VI3	-0.56789
56272	P0C214	Q8WU10	-0.45045
56273	P0C214	Q96BM1	-0.22741
56274	P0C214	Q96H72	-0.67567
56275	P0C214	Q6NVV9	-0.61462
56276	P0C214	Q8N7X0	-0.72692
56277	P0C214	Q9UHF3	-1.0398
56278	P0C214	Q6UXB8	-1.3474
56279	P0C214	Q14623	-0.42761
56280	P0C214	Q13242	-0.22676
56281	P0C214	Q9UDT6	-0.27174
56282	P0C214	P52895	-0.26441
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56288	P0C214	Q6ZMK1	-0.12514
56289	P0C214	Q9UJ14	-0.76946
56290	P0C214	Q6SPF0	-0.73145
56291	P0C214	Q15125	-0.77634
56292	P0C214	Q7LFL8	-0.36208
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56294	P0C214	P54707	-0.95709
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56297	P0C214	P51677	-1.3408
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56306	P0C214	Q9BZZ2	-1.5681
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56308	P0C214	Q8TAT5	-0.40007
56309	P0C214	P49286	-1.3756
56310	P0C214	Q9BUL5	-0.50512
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56314	P0C214	Q5BJF2	-0.15223
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56316	P0C214	Q13361	-0.93513

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56318	P0C214	Q5VV16	-0.41532
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56320	P0C214	Q15381	-0.27046
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56322	P0C214	Q9Y5P0	-1.2952
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56326	P0C214	P30447	-0.91186
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56328	P0C214	Q8NH95	-1.2952
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56330	P0C214	Q03164	-0.22673
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56333	P0C214	Q0VAQ4	-0.43311
56334	P0C214	Q93079	-0.85588
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56358	P0C214	P39905	-0.34643
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56379	P0C214	Q96KN3	-0.42949
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56384	P0C214	Q96DU3	-1.0766
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56440	P0C214	P61647	-0.64427
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56443	P0C214	P16930	-0.082264
56444	P0C214	Q6PL24	-0.9667
56445	P0C214	P29033	-0.92759
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56452	P0C214	Q8N2U0	-0.98681
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56458	P0C214	O14957	-0.53346
56459	P0C214	Q13509	-0.53623
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56463	P0C214	O15375	-1.1327
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56581	P0C214	Q01638	-0.79668
56582	P0C214	Q5TDH0	-0.54994
56583	P0C214	Q29718	-1.0367
56584	P0C214	Q9H9P2	-0.57797
56585	P0C214	Q9Y2I8	-0.22939
56586	P0C214	Q5TGY3	-0.51359
56587	P0C214	P09493	-0.22851
56588	P0C214	Q8IV63	-0.75128
56589	P0C214	O60404	-1.2952
56590	P0C214	Q5T4D3	-0.98681
56591	P0C214	Q9NQ75	-0.60067
56592	P0C214	P01721	-1.0022
56593	P0C214	Q8N4C0	-0.597
56594	P0C214	Q7Z736	-0.68854
56595	P0C214	Q9BWV7	-0.31355
56596	P0C214	A6NGW2	-0.91736
56597	P0C214	Q8I WV1	-0.15386
56598	P0C214	Q8TF42	-0.22741
56599	P0C214	P01700	-1.0022
56600	P0C214	P04553	-0.86868
56601	P0C214	Q14796	-0.57563
56602	P0C214	P02768	-0.23646
56603	P0C214	Q7Z5Q5	-0.2028
56604	P0C214	Q8NDH3	-0.69617
56605	P0C214	Q8NES8	-0.88056
56606	P0C214	Q9HCC8	-0.74627
56607	P0C214	P02708	-0.83264
56608	P0C214	Q9UL52	-1.9114
56609	P0C214	P08581	-0.41378
56610	P0C214	Q9GZV7	-1.1017
56611	P0C214	Q9P0K8	-0.41532
56612	P0C214	P08962	-0.66187
56613	P0C214	P51793	-1.2113
56614	P0C214	P04035	-0.49233
56615	P0C214	Q5T7P6	-0.98681
56616	P0C214	P19823	-0.7148
56617	P0C214	Q8TAP8	-0.41268
56618	P0C214	Q9H237	-0.81816
56619	P0C214	Q9HBW1	-0.8702
56620	P0C214	Q13166	-0.18353

56621	P0C214	P35968	-0.40546
56622	P0C214	Q3SXR2	-0.13793
56623	P0C214	Q9Y6Z4	-0.18353
56624	P0C214	Q3KR16	-0.27187
56625	P0C214	Q9H6B4	-0.93734
56626	P0C214	Q6PK57	-0.51649
56627	P0C214	Q9NXH8	-1.3648
56628	P0C214	Q8N3H0	-0.21942
56629	P0C214	O76036	-1.1556
56630	P0C214	O60330	-1.2424
56631	P0C214	P19801	-0.78171
56632	P0C214	Q4LDR2	-0.96345
56633	P0C214	A6NMZ2	-0.62021
56634	P0C214	Q92643	-0.55917
56635	P0C214	Q86XM0	-1.1226
56636	P0C214	Q13886	-0.22257
56637	P0C214	Q96BR1	-0.98868
56638	P0C214	Q9P0G3	-1.2042
56639	P0C214	Q96HE8	-0.98681
56640	P0C214	Q9NXK6	-1.3343
56641	P0C214	Q8IVP5	-0.5914
56642	P0C214	P0CG06	-0.99256
56643	P0C214	Q8TDN1	-0.98724
56644	P0C214	Q13465	-0.06711
56645	P0C214	Q07837	-1.0008
56646	P0C214	Q9BRK3	-0.98681
56647	P0C214	P48436	-0.33852
56648	P0C214	Q5JQF8	-0.83638
56649	P0C214	Q8IV13	-0.22541
56650	P0C214	P49753	-0.19267
56651	P0C214	Q155Q3	-0.22741
56652	P0C214	Q9Y5J5	-0.4467
56653	P0C214	P22914	-0.39725
56654	P0C214	Q8IV16	-0.81515
56655	P0C214	Q86W74	-0.98681
56656	P0C214	P21815	-1.0259
56657	P0C214	O00755	-0.43025
56658	P0C214	Q96RU3	-0.22741
56659	P0C214	A6NJW4	-0.98681
56660	P0C214	P16109	-0.22741
56661	P0C214	P08134	-0.2266
56662	P0C214	Q8NFT8	-0.66831
56663	P0C214	Q6PH81	-0.58592
56664	P0C214	Q9UPQ0	-0.54303
56665	P0C214	Q15012	-0.99539
56666	P0C214	Q9BXI3	-0.12492
56667	P0C214	Q96GR2	-0.59933
56668	P0C214	Q06889	-0.20822
56669	P0C214	Q9H5Z1	-0.68438
56670	P0C214	A6NGB0	-0.98681
56671	P0C214	P59536	-1.2886
56672	P0C214	O43474	-0.22382
56673	P0C214	Q6TFL4	-0.45485
56674	P0C214	P30490	-1.0367
56675	P0C214	P58658	-0.97467
56676	P0C214	Q9H106	-0.91736
56677	P0C214	Q9U1L4	-0.56416
56678	P0C214	Q8IYS2	-0.98681
56679	P0C214	Q8WYQ4	-0.1517
56680	P0C214	Q9UKZ9	-0.91859
56681	P0C214	P05160	-0.74797
56682	P0C214	Q15878	-0.88
56683	P0C214	O43687	-0.82381
56684	P0C214	Q96J42	-0.98246
56685	P0C214	Q8IYV9	-1.0373
56686	P0C214	Q8WWX8	-1.0667
56687	P0C214	Q8WZ92	-1.2952
56688	P0C214	Q9Y5K8	-0.053501
56689	P0C214	Q9NZH8	-0.76206
56690	P0C214	Q8N394	-0.91465
56691	P0C214	P58294	-0.67338
56692	P0C214	P07911	-0.71457
56693	P0C214	O95427	-0.91739
56694	P0C214	P60903	-0.60553
56695	P0C214	Q66K79	-1.2505
56696	P0C214	Q9Y2R0	-0.77831

56697	P0C214	Q6PJF5	-1.045
56698	P0C214	O95803	-0.7345
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56701	P0C214	Q6XZB0	-1.0115
56702	P0C214	O14626	-1.3112
56703	P0C214	Q9C0D5	-0.52269
56704	P0C214	Q86U10	-0.36155
56705	P0C214	Q96BX8	-0.63993
56706	P0C214	Q8NGH3	-1.2952
56707	P0C214	P33241	-0.80234
56708	P0C214	Q9UBC0	-0.22724
56709	P0C214	A6NKT7	-0.46678
56710	P0C214	Q96BR5	-0.18802
56711	P0C214	Q96JG9	-0.22753
56712	P0C214	Q96HJ9	-0.32942
56713	P0C214	P40205	-0.638
56714	P0C214	Q96JA4	-0.98681
56715	P0C214	Q9BST9	-0.49451
56716	P0C214	O75096	-0.5301
56717	P0C214	Q86X10	-0.82271
56718	P0C214	Q5T8P6	-0.2858
56719	P0C214	Q13480	-0.22733
56720	P0C214	P46059	-1.0192
56721	P0C214	Q8NEY4	-0.35575
56722	P0C214	Q9NWS6	-0.98681
56723	P0C214	Q9Y240	-0.36922
56724	P0C214	Q14908	-0.22735
56725	P0C214	A6NCQ9	-1.0783
56726	P0C214	Q7Z2K6	-1.2466
56727	P0C214	Q92908	-0.22739
56728	P0C214	O14977	-0.10586
56729	P0C214	Q8N8Q1	-0.97411
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56731	P0C214	Q9GZK7	-1.2952
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56734	P0C214	Q969Q4	-0.65148
56735	P0C214	Q96BF3	-1.0708
56736	P0C214	Q8WU43	-0.29196
56737	P0C214	P29376	-1.4188
56738	P0C214	Q8NGL3	-1.2952
56739	P0C214	P35326	-0.33953
56740	P0C214	Q9H1U9	-0.80997
56741	P0C214	Q86UK5	-0.66673
56742	P0C214	Q9Y484	-0.22705
56743	P0C214	O15173	-1.1777
56744	P0C214	Q9ULB4	-1.0552
56745	P0C214	Q01453	-0.52316
56746	P0C214	Q9BRC7	-0.38281
56747	P0C214	P35212	-1.0796
56748	P0C214	P20916	-0.93212
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56750	P0C214	Q13401	-0.080441
56751	P0C214	A0A183	-0.38015
56752	P0C214	Q15847	-0.18353
56753	P0C214	Q5TIE3	-0.91736
56754	P0C214	Q9P2U8	-0.94409
56755	P0C214	Q9UMR5	-0.37336
56756	P0C214	Q641Q3	-0.91736
56757	P0C214	Q13263	-0.22755
56758	P0C214	Q15523	-0.55575
56759	P0C214	Q8ND25	-0.23349
56760	P0C214	Q00532	-0.72064
56761	P0C214	Q6NXT6	-1.0253
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56763	P0C214	Q9H173	-0.16053
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56765	P0C214	Q8WY91	-0.55088
56766	P0C214	P49703	-0.22836
56767	P0C214	O75581	-0.23744
56768	P0C214	Q0GE19	-1.1717
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56770	P0C214	Q14576	-1.0438
56771	P0C214	Q8WXS8	-1.2984
56772	P0C214	O15269	-0.24879



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56775	P0C214	Q96G79	-0.77704
56776	P0C214	P25067	-1.1165
56777	P0C214	Q9BXJ4	-0.39187
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56779	P0C214	Q9BUN8	-0.088704
56780	P0C214	P50406	-0.9619
56781	P0C214	Q96FK6	-0.2274
56782	P0C214	P11473	-0.23013
56783	P0C214	Q5FYB0	-0.62048
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56786	P0C214	P50479	-0.22743
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56789	P0C214	P33260	-0.61003
56790	P0C214	Q15726	-0.42535
56791	P0C214	Q76MJ5	-0.77898
56792	P0C214	Q86VQ0	-0.21461
56793	P0C214	Q71RG4	-0.98681
56794	P0C214	Q8N1Q1	-0.178
56795	P0C214	Q9GZM5	-0.82558
56796	P0C214	Q9Y6Y9	-0.15961
56797	P0C214	Q86YB8	-0.47015
56798	P0C214	Q9Y3L5	-0.63704
56799	P0C214	Q9UQQ1	-1.3264
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56803	P0C214	P31645	-0.32088
56804	P0C214	P08237	-0.41657
56805	P0C214	A6NEQ0	-0.53354
56806	P0C214	Q6UWY5	-0.91736
56807	P0C214	Q2TAP0	-0.32008
56808	P0C214	O00264	-0.12451
56809	P0C214	E9PQX1	-0.65042
56810	P0C214	Q92835	-0.22741
56811	P0C214	Q96IZ5	-0.83638
56812	P0C214	O60902	-0.33515
56813	P0C214	P24394	-0.91795
56814	P0C214	Q6ZS02	-0.12092
56815	P0C214	P32302	-1.3406
56816	P0C214	P21283	-0.21815
56817	P0C214	P35475	-0.36809
56818	P0C214	P78329	-0.22885
56819	P0C214	Q9HAV5	-0.69777
56820	P0C214	Q9UBP5	-0.22678
56821	P0C214	Q8TDI7	-0.98681
56822	P0C214	Q9BW83	-1.0269
56823	P0C214	Q6P4F7	-0.86358
56824	P0C214	P39059	-1.6648
56825	P0C214	Q9HD89	-0.48908
56826	P0C214	Q9NRH3	-0.20461
56827	P0C214	P17405	-0.25705
56828	P0C214	P33261	-0.51317
56829	P0C214	O00461	-0.32385
56830	P0C214	Q8WXA9	-0.2202
56831	P0C214	P16150	-0.8832
56832	P0C214	P22459	-0.66251
56833	P0C214	Q96N87	-1.2008
56834	P0C214	Q9Y2E5	-0.73826
56835	P0C214	Q3KPI0	-0.98681
56836	P0C214	Q9BQI4	-0.85092
56837	P0C214	Q9BQP9	-1.0961
56838	P0C214	Q9H2L4	-0.98681
56839	P0C214	A6NLI3	-0.2579
56840	P0C214	Q9BTC0	-0.2272
56841	P0C214	Q9NUB1	-0.26997
56842	P0C214	Q96LB0	-1.3693
56843	P0C214	P25942	-0.56077
56844	P0C214	P61165	-0.98681
56845	P0C214	Q9Y5L2	-1.0637
56846	P0C214	P49917	-0.15629
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56848	P0C214	B5MCY1	-0.39253

56849	P0C214	Q9UBY8	-0.38494
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56852	P0C214	O60609	-0.40086
56853	P0C214	Q8WUS8	-1.0418
56854	P0C214	Q9NRR1	-0.86809
56855	P0C214	O00230	-0.83952
56856	P0C214	Q8NDI1	-0.30231
56857	P0C214	A6BM72	-0.93909
56858	P0C214	Q13049	-0.2274
56859	P0C214	Q9NUQ9	-0.17363
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56861	P0C214	Q9BXL6	-0.43668
56862	P0C214	Q5M8T2	-0.98931
56863	P0C214	Q05513	-0.22408
56864	P0C214	P55286	-1.2098
56865	P0C214	P43088	-1.4847
56866	P0C214	Q969W1	-0.95894
56867	P0C214	P54710	-1.1483
56868	P0C214	Q9Y278	-0.55242
56869	P0C214	P49914	-0.30417
56870	P0C214	Q9BWF2	-0.22731
56871	P0C214	Q6ZP29	-0.99853
56872	P0C214	Q6YN16	-0.57643
56873	P0C214	Q14644	-0.57851
56874	P0C214	Q9Y679	-0.49781
56875	P0C214	P13611	-0.89908
56876	P0C214	Q9NPF4	-0.36446
56877	P0C214	O15217	-0.22317
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56879	P0C214	Q6SA08	-0.86847
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56881	P0C214	Q8NHX9	-0.6398
56882	P0C214	Q9UKM7	-0.78642
56883	P0C214	Q8IXT5	-0.17584
56884	P0C214	Q8IVS2	-0.4072
56885	P0C214	P32249	-1.2554
56886	P0C214	Q15027	-0.98674
56887	P0C214	Q6UXG2	-0.92414
56888	P0C214	Q8N1G4	-0.22783
56889	P0C214	P18627	-0.93049
56890	P0C214	P00846	-0.48438
56891	P0C214	P59089	-0.38995
56892	P0C214	A8TX70	-1.2262
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56894	P0C214	Q05655	-0.21935
56895	P0C214	P55075	-0.31592
56896	P0C214	Q96B33	-0.848
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56898	P0C214	O75636	-0.55707
56899	P0C214	O00214	-0.21994
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56903	P0C214	Q6N063	-0.55024
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56905	P0C214	Q9H347	-0.2257
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56912	P0C214	P08195	-0.36853
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56918	P0C214	Q8IV31	-0.98681
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56921	P0C214	Q14558	-0.33963
56922	P0C214	Q2TAL5	-0.22837
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56924	P0C214	P11047	-0.85906

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56928	P0C214	Q15005	-0.68473
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56952	P0C214	P01860	-0.96791
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56961	P0C214	Q13203	-0.72676
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56973	P0C214	P11908	-0.67952
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56975	P0C214	Q9Y6H6	-1.0671
56976	P0C214	Q3ZCN5	-0.20886
56977	P0C214	Q96CH1	-1.3693
56978	P0C214	P31937	-0.12252
56979	P0C214	P30532	-1.085
56980	P0C214	Q9NVA4	-0.98681
56981	P0C214	P30872	-1.3321
56982	P0C214	P51159	-0.25166
56983	P0C214	Q13183	-1.2986
56984	P0C214	Q7Z475	-0.9751
56985	P0C214	Q96NR2	-0.59347
56986	P0C214	Q15182	-0.22416
56987	P0C214	Q53R12	-1.0708
56988	P0C214	Q6Y288	-0.77803
56989	P0C214	Q92882	-0.64953
56990	P0C214	Q96HE9	-0.19276
56991	P0C214	Q8N7P1	-1.0554
56992	P0C214	Q9NQZ5	-0.15381
56993	P0C214	E9PIF3	-0.11752
56994	P0C214	Q9ULK6	-1.0783
56995	P0C214	Q9HBA9	-0.67629
56996	P0C214	P61020	-0.51876
56997	P0C214	Q8TB52	-0.48694
56998	P0C214	Q15067	-0.29615
56999	P0C214	Q8NFR9	-0.6222
57000	P0C214	Q96PN8	-1.5252

57001	P0C214	P27658	-1.1099
57002	P0C214	A4D1N5	-0.26924
57003	P0C214	Q8N7R7	-0.41202
57004	P0C214	P61073	-0.3511
57005	P0C214	Q8TF71	-1.1119
57006	P0C214	B1AJZ1	-0.18448
57007	P0C214	P11215	-0.27738
57008	P0C214	O75364	-0.16986
57009	P0C214	Q13351	-0.22514
57010	P0C214	O60678	-0.048307
57011	P0C214	P26441	-0.17011
57012	P0C214	Q8NGN3	-1.2952
57013	P0C214	Q8IZQ5	-0.39579
57014	P0C214	Q8TC17	-0.22741
57015	P0C214	Q8IZO8	-1.3693
57016	P0C214	Q02487	-1.0392
57017	P0C214	Q86SM5	-1.3693
57018	P0C214	Q9Y216	-0.24236
57019	P0C214	Q9Y2U8	-0.33294
57020	P0C214	Q8WXC6	-0.12285
57021	P0C214	Q96M78	-0.21391
57022	P0C214	P21964	-0.21512
57023	P0C214	Q96DN5	-0.81232
57024	P0C214	Q9NZH7	-0.83332
57025	P0C214	Q9BXU9	-0.7088
57026	P0C214	Q02952	-0.053008
57027	P0C214	O75677	-0.50512
57028	P0C214	Q8TD94	-0.2232
57029	P0C214	P50281	-0.38837
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57031	P0C214	A8MV81	-0.98681
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57033	P0C214	O75366	-0.30823
57034	P0C214	Q9NS61	-0.48476
57035	P0C214	Q69YW2	-0.98681
57036	P0C214	P36222	-0.44235
57037	P0C214	Q8N1D5	-0.059187
57038	P0C214	Q3SY89	-0.24711
57039	P0C214	Q5TYM5	-0.062667
57040	P0C214	Q9NZ72	-0.15638
57041	P0C214	Q6P2I7	-0.47397
57042	P0C214	Q8NGR4	-1.2952
57043	P0C214	P40238	-0.99564
57044	P0C214	Q9H477	-0.74478
57045	P0C214	Q9ULB1	-0.44193
57046	P0C214	Q71RS6	-1.0528
57047	P0C214	Q2Y0W8	-1.0929
57048	P0C214	Q5VYS4	-0.18791
57049	P0C214	Q14849	-0.95437
57050	P0C214	O75521	-0.68204
57051	P0C214	Q9HAA7	-0.44367
57052	P0C214	P05230	-0.27422
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57054	P0C214	Q9C093	-0.4059
57055	P0C214	Q9H425	-0.20758
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57057	P0C214	Q7Z442	-1.1823
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57060	P0C214	Q9Y6F1	-0.19572
57061	P0C214	O60391	-0.89531
57062	P0C214	P68371	-0.13367
57063	P0C214	Q9Y5Q9	-0.22695
57064	P0C214	Q96NR8	-1.0826
57065	P0C214	Q6PCB8	-1.1636
57066	P0C214	Q9UGV2	-0.3391
57067	P0C214	Q12849	-0.41542
57068	P0C214	Q6ZUI0	-0.28532
57069	P0C214	A8MUK1	-0.35707
57070	P0C214	P51572	-0.18514
57071	P0C214	Q6PEZ8	-0.93653
57072	P0C214	Q5VW38	-0.98681
57073	P0C214	Q96P16	-0.37824
57074	P0C214	Q92506	-0.19799
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57077	P0C214	Q8NH49	-1.2952
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57079	P0C214	Q9UKF5	-1.3014
57080	P0C214	Q58DX5	-1.3073
57081	P0C214	Q9UKS7	-0.34909
57082	P0C214	P57775	-0.30261
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57086	P0C214	Q15391	-1.2771
57087	P0C214	Q9NU02	-0.43585
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57089	P0C214	P61160	-0.78454
57090	P0C214	P06681	-1.3511
57091	P0C214	O95819	-0.49968
57092	P0C214	Q9UN76	-1.0807
57093	P0C214	P46721	-0.94433
57094	P0C214	Q9UK23	-0.50107
57095	P0C214	Q15139	-0.22717
57096	P0C214	O76090	-0.80873
57097	P0C214	Q16627	-0.79531
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57105	P0C214	P05231	-0.23998
57106	P0C214	Q9ULC8	-0.79777
57107	P0C214	Q96N66	-0.22528
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57119	P0C214	P22059	-0.63518
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57121	P0C214	Q07812	-0.22733
57122	P0C214	P01714	-1.0022
57123	P0C214	Q6UWF9	-0.91736
57124	P0C214	P49023	-0.31941
57125	P0C214	Q96DB9	-1.1471
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57129	P0C214	Q5VT99	-1.2564
57130	P0C214	P37288	-0.45775
57131	P0C214	Q9BT73	-0.22509
57132	P0C214	Q6ZW33	-0.6273
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57185	P0C214	Q3KNW5	-1.1296
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57193	P0C214	A6NFA1	-0.80095
57194	P0C214	Q8TE12	-0.23743
57195	P0C214	P04075	-0.19536
57196	P0C214	Q13214	-0.9244
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57199	P0C214	Q7L523	-0.31803
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57205	P0C214	Q8WUY9	-0.79695
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57209	P0C214	Q9NR12	-0.51672
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57211	P0C214	Q9BQF6	-0.68518
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57213	P0C214	O43405	-0.37614
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57223	P0C214	P15421	-1.2123
57224	P0C214	Q4V328	-0.25474
57225	P0C214	O00748	-0.22734
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57228	P0C214	Q15155	-0.67118

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57238	P0C214	P01023	-0.30843
57239	P0C214	Q9UPZ9	-0.84739
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57379	P0C214	Q15738	-0.78894
57380	P0C214	P23083	-0.91671



57381	P0C214	Q9NXW2	-0.91173
57382	P0C214	Q8NFA2	-0.41855
57383	P0C214	A6NC62	-0.14635
57384	P0C214	P46098	-1.0356
57385	P0C214	A5YM72	-0.64943
57386	P0C214	Q32VQ0	-1.2952
57387	P0C214	A8MVS5	-0.98681
57388	P0C214	Q15858	-1.0477
57389	P0C214	Q9Y276	-0.49959
57390	P0C214	Q8IYA2	-0.18779
57391	P0C214	P46095	-1.3791
57392	P0C214	Q9BWQ8	-0.61144
57393	P0C214	P06307	-0.66244
57394	P0C214	Q03395	-1.3333
57395	P0C214	P78415	-0.23624
57396	P0C214	Q9H3U1	-0.2266
57397	P0C214	Q9ULR3	-0.37063
57398	P0C214	O15550	-0.59801
57399	P0C214	Q3LFD5	-0.68518
57400	P0C214	Q13304	-1.3601
57401	P0C214	P01705	-1.0022
57402	P0C214	Q8NCC3	-0.76528
57403	P0C214	Q7Z5L0	-0.89613
57404	P0C214	Q96F10	-0.2137
57405	P0C214	Q9H4L4	-0.31564
57406	P0C214	P35568	-0.21502
57407	P0C214	Q9HC57	-0.54012
57408	P0C214	P0C7P2	-0.056166
57409	P0C214	Q8WXD2	-0.56866
57410	P0C214	O95361	-0.23367
57411	P0C214	Q99259	-0.28328
57412	P0C214	Q8N4F4	-1.1693
57413	P0C214	Q7Z6J6	-0.43702
57414	P0C214	Q8TED1	-1.0431
57415	P0C214	Q9Y5L3	-1.1393
57416	P0C214	Q14416	-1.2984
57417	P0C214	Q8NGC9	-1.2952
57418	P0C214	Q9NPE6	-0.72749
57419	P0C214	O75600	-0.064663
57420	P0C214	B1AKI9	-0.91736
57421	P0C214	Q9BV68	-0.23163
57422	P0C214	P04280	-0.76523
57423	P0C214	Q99758	-1.2329
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57426	P0C214	P41143	-0.5636
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57436	P0C214	Q8NFW5	-0.22232
57437	P0C214	Q4G163	-0.18189
57438	P0C214	Q86VE9	-0.81033
57439	P0C214	Q86UK7	-0.71534
57440	P0C214	Q8NET5	-1.0967
57441	P0C214	Q5HYM0	-0.41772
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57444	P0C214	Q6NUN0	-0.74139
57445	P0C214	O95219	-0.22579
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57447	P0C214	P31151	-0.21489
57448	P0C214	Q9BY67	-0.50459
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57451	P0C214	O75131	-0.2288
57452	P0C214	Q9BZV2	-0.77633
57453	P0C214	Q8NG76	-1.2952
57454	P0C214	A2RUC4	-0.43896
57455	P0C214	Q9GZV1	-0.59847
57456	P0C214	Q8NDY3	-0.31692

57457	P0C214	Q8N114	-0.46954
57458	P0C214	P05155	-0.31479
57459	P0C214	Q5TCM9	-0.38015
57460	P0C214	P63135	-0.22742
57461	P0C214	A6NKW6	-0.98681
57462	P0C214	Q8NGL4	-1.2952
57463	P0C214	O15294	-0.22597
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57465	P0C214	Q8N283	-0.22737
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57471	P0C214	P21810	-0.63763
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57473	P0C214	Q5TZF3	-0.22741
57474	P0C214	Q92781	-0.8425
57475	P0C214	Q86VQ3	-0.22796
57476	P0C214	Q5T442	-0.89403
57477	P0C214	Q9H5J0	-0.22732
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57479	P0C214	Q08495	-0.21514
57480	P0C214	Q5SQ64	-1.0708
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57482	P0C214	Q9Y6N5	-0.27893
57483	P0C214	P53634	-0.78226
57484	P0C214	Q02153	-0.74508
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57490	P0C214	Q96B21	-0.98681
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57492	P0C214	Q05707	-1.0169
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57499	P0C214	Q7L7V1	-0.21872
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57507	P0C214	Q8IZ16	-0.032705
57508	P0C214	Q8TAM6	-0.45621
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57516	P0C214	Q16678	-0.60876
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57557	P0C214	O60928	-1.1408
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57571	P0C214	Q5TD97	-0.23332
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57576	P0C214	Q9UK33	-0.19994
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57594	P0C214	P56202	-0.8152
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57597	P0C214	P47883	-1.2952
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57603	P0C214	Q6UWQ5	-0.82212
57604	P0C214	B7Z1M9	-0.042488
57605	P0C214	Q9BPU6	-0.21549
57606	P0C214	B2RXH4	-0.22694
57607	P0C214	Q8IYR2	-0.50512
57608	P0C214	O94915	-0.1182

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57615	P0C214	P62158	-0.22702
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57619	P0C214	Q96NS5	-0.22744
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57625	P0C214	P98073	-1.3267
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57635	P0C214	P10276	-0.23836
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57643	P0C214	Q9BVR0	-0.40678
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57779	P0C214	Q9NZU1	-1.1933
57780	P0C214	Q9UNQ0	-0.51099
57781	P0C214	Q8IY51	-0.21333
57782	P0C214	O60704	-0.70542
57783	P0C214	Q5JXX7	-0.98681
57784	P0C214	A8MXV4	-0.2108
57785	P0C214	Q96BN8	-0.13923
57786	P0C214	Q8N884	-0.42082
57787	P0C214	Q7L0X0	-0.86716
57788	P0C214	Q9H0R4	-0.40972
57789	P0C214	Q96BM9	-0.53028
57790	P0C214	P30990	-0.97371
57791	P0C214	P23109	-0.10416
57792	P0C214	Q6XZF7	-0.22742
57793	P0C214	Q6UXH0	-0.28146
57794	P0C214	Q6NSJ2	-0.52301
57795	P0C214	Q9C004	-0.1659
57796	P0C214	Q8NGL2	-1.2952
57797	P0C214	Q5W064	-0.36863
57798	P0C214	P22466	-0.37306
57799	P0C214	Q6J4K2	-1.1847
57800	P0C214	Q14952	-1.183
57801	P0C214	Q8N7X8	-1.15
57802	P0C214	Q9Y6I8	-0.41897
57803	P0C214	Q7Z478	-0.22323
57804	P0C214	Q9BZX2	-0.41858
57805	P0C214	Q9H7P9	-0.55877
57806	P0C214	Q8N349	-0.76795
57807	P0C214	A2VCL2	-0.31915
57808	P0C214	Q9NX14	-0.45988
57809	P0C214	Q9NX09	-0.2456
57810	P0C214	P43034	-0.22957
57811	P0C214	Q96LB4	-0.41049
57812	P0C214	Q95398	-0.37806
57813	P0C214	P26010	-1.2841
57814	P0C214	P05026	-0.53512
57815	P0C214	P55042	-0.55446
57816	P0C214	Q9H361	-0.55099
57817	P0C214	Q8TF61	-0.66454
57818	P0C214	Q9Y5G2	-1.2424
57819	P0C214	Q99674	-1.0281
57820	P0C214	Q9BRR9	-0.95761
57821	P0C214	P36980	-0.91736
57822	P0C214	Q9BT56	-0.3835
57823	P0C214	Q96HM7	-0.32696
57824	P0C214	Q5VSY0	-0.44912
57825	P0C214	Q9BT40	-0.2254
57826	P0C214	Q9Y5T5	-0.29799
57827	P0C214	Q9HB21	-0.22741
57828	P0C214	Q08050	-0.40394
57829	P0C214	P26367	-0.2165
57830	P0C214	O14544	-0.22711
57831	P0C214	Q99928	-0.876
57832	P0C214	Q86SU0	-0.55554
57833	P0C214	A6NG13	-0.71199
57834	P0C214	A6NCD1	-0.71534
57835	P0C214	P43630	-1.1765
57836	P0C214	Q15413	-0.76851

57837	P0C214	Q9Y2R4	-0.338
57838	P0C214	P35612	-0.43403
57839	P0C214	P07858	-0.26445
57840	P0C214	P59533	-1.2886
57841	P0C214	Q6FHJ7	-0.42907
57842	P0C214	P51884	-0.54529
57843	P0C214	Q9H3Q3	-0.78983
57844	P0C214	P0CG22	-0.81698
57845	P0C214	Q5HYI8	-1.1039
57846	P0C214	Q6GMV1	-0.41123
57847	P0C214	Q8NER5	-1.0054
57848	P0C214	Q8NE35	-0.74176
57849	P0C214	Q9NR96	-0.529
57850	P0C214	Q14183	-0.24669
57851	P0C214	P0C7V8	-0.22746
57852	P0C214	Q9UKN7	-0.58125
57853	P0C214	O75044	-0.22933
57854	P0C214	P29017	-1.0736
57855	P0C214	Q9UP52	-1.141
57856	P0C214	P10070	-0.22718
57857	P0C214	Q5T1B0	-0.0034471
57858	P0C214	Q9UJJ9	-0.80492
57859	P0C214	Q9Y4G8	-0.92488
57860	P0C214	Q15527	-0.2406
57861	P0C214	Q6P9A2	-0.78421
57862	P0C214	O95484	-0.848
57863	P0C214	P19835	-0.30503
57864	P0C214	Q9NVG8	-1.2827
57865	P0C214	Q6NVV3	-1.1214
57866	P0C214	Q2NL67	-0.40719
57867	P0C214	P61968	-0.3106
57868	P0C214	Q86XJ0	-0.98681
57869	P0C214	Q76I76	-0.60764
57870	P0C214	Q68CP4	-0.71308
57871	P0C214	P14410	-0.46629
57872	P0C214	C9JQL5	-0.98316
57873	P0C214	P23975	-0.64521
57874	P0C214	P21439	-0.9747
57875	P0C214	Q8WUK0	-0.56534
57876	P0C214	Q13069	-0.60816
57877	P0C214	Q9NZB8	-0.31876
57878	P0C214	A1Z1Q3	-0.35785
57879	P0C214	P61278	-0.78624
57880	P0C214	Q8WWF5	-0.87596
57881	P0C214	Q13237	-0.80852
57882	P0C214	P09923	-1.1396
57883	P0C214	P18405	-0.31932
57884	P0C214	Q9BRP0	-0.22047
57885	P0C214	P62952	-0.27766
57886	P0C214	Q8IVB4	-1.0681
57887	P0C214	Q8TCU6	-0.22794
57888	P0C214	Q9Y620	-0.34322
57889	P0C214	Q9Y4A9	-1.2952
57890	P0C214	Q6VEQ5	-0.59452
57891	P0C214	Q8WX93	-0.2275
57892	P0C214	P11217	-0.10682
57893	P0C214	Q9HBU9	-0.81299
57894	P0C214	Q00537	-1.0323
57895	P0C214	A5A3E0	-0.21848
57896	P0C214	Q96KN7	-0.11886
57897	P0C214	Q8IV20	-0.013598
57898	P0C214	Q05329	-0.23573
57899	P0C214	Q9UHG3	-0.52882
57900	P0C214	Q9Y6R4	-0.43943
57901	P0C214	Q9BZD3	-0.19014
57902	P0C214	P56378	-0.4993
57903	P0C214	Q96DY2	-0.076435
57904	P0C214	Q7Z7H5	-1.0332
57905	P0C214	O15123	-0.49971
57906	P0C214	A6NHY2	-0.55184
57907	P0C214	Q8TCW7	-0.98681
57908	P0C214	O95013	-1.2952
57909	P0C214	Q7Z7G0	-0.96067
57910	P0C214	Q9UBP8	-0.34077
57911	P0C214	Q8N9W7	-0.98681
57912	P0C214	Q9Y6W8	-1.5659

57913	P0C214	Q6UXN7	-0.64908
57914	P0C214	Q92604	-0.47203
57915	P0C214	P25705	-0.015048
57916	P0C214	P0C7T8	-0.98681
57917	P0C214	P40225	-0.66891
57918	P0C214	P52564	-0.22931
57919	P0C214	P0C7V7	-1.2604
57920	P0C214	O00631	-0.85324
57921	P0C214	Q9H8N7	-0.10253
57922	P0C214	A8MWX3	-0.6075
57923	P0C214	Q8N755	-0.98681
57924	P0C214	Q9NTN3	-0.65686
57925	P0C214	Q13571	-1.2908
57926	P0C214	Q5BKU9	-0.15381
57927	P0C214	O95069	-1.1755
57928	P0C214	Q68DN1	-0.059973
57929	P0C214	Q6JQN1	-0.42723
57930	P0C214	P08263	-0.22399
57931	P0C214	Q8N7C3	-0.39168
57932	P0C214	Q9C0A1	-0.2274
57933	P0C214	P23416	-0.89923
57934	P0C214	P98153	-1.0499
57935	P0C214	Q8N307	-0.80786
57936	P0C214	P78556	-1.0265
57937	P0C214	Q9H560	-0.2274
57938	P0C214	Q9UJF2	-0.54886
57939	P0C214	Q92823	-0.85126
57940	P0C214	Q8WUM9	-1.2279
57941	P0C214	Q9Y661	-1.1658
57942	P0C214	P17181	-0.96343
57943	P0C214	Q8WUF8	-0.85092
57944	P0C214	Q8TCC7	-0.89771
57945	P0C214	P29375	-0.28921
57946	P0C214	Q6IPT4	-0.46458
57947	P0C214	Q9UHR4	-0.22738
57948	P0C214	Q96M94	-0.37066
57949	P0C214	O14735	-0.5782
57950	P0C214	Q6ZSS7	-0.97586
57951	P0C214	P58166	-0.75674
57952	P0C214	Q7LDG7	-0.53963
57953	P0C214	A8MY62	-0.56454
57954	P0C214	P07602	-0.77267
57955	P0C214	Q9P0N5	-0.80004
57956	P0C214	Q9Y3D6	-0.31997
57957	P0C214	A6NNN8	-1.1771
57958	P0C214	Q8TDX5	-0.22982
57959	P0C214	Q969M3	-0.58662
57960	P0C214	Q86UV5	-0.42196
57961	P0C214	Q6U841	-0.93477
57962	P0C214	Q07444	-0.95931
57963	P0C214	Q5JX71	-0.98681
57964	P0C214	P16671	-0.436
57965	P0C214	O43572	-0.22192
57966	P0C214	Q8N0Y5	-1.2952
57967	P0C214	O14524	-0.81299
57968	P0C214	Q6ZWI9	-0.50512
57969	P0C214	Q8NGK5	-1.2952
57970	P0C214	O95319	-0.32745
57971	P0C214	Q5RIA9	-0.79608
57972	P0C214	Q5THJ4	-0.44445
57973	P0C214	Q6UQ28	-0.98972
57974	P0C214	Q6ZMS4	-0.70722
57975	P0C214	Q8NHQ9	-0.79344
57976	P0C214	Q9Y2T6	-1.2622
57977	P0C214	A4D1B5	-0.19145
57978	P0C214	P15509	-1.5915
57979	P0C214	Q8N3E9	-0.48973
57980	P0C214	O75063	-1.1848
57981	P0C214	Q6ZS62	-0.98681
57982	P0C214	Q9BTV4	-0.48428
57983	P0C214	O94762	-0.22596
57984	P0C214	Q99442	-0.82558
57985	P0C214	Q6IEU7	-1.2952
57986	P0C214	Q12947	-0.40954
57987	P0C214	P0C5Y9	-0.83668
57988	P0C214	Q96KS9	-0.18718



57989	P0C214	Q9H354	-0.98681
57990	P0C214	Q8NB15	-0.22657
57991	P0C214	Q70Z44	-1.1949
57992	P0C214	Q9BTX1	-0.24211
57993	P0C214	P16104	-0.43637
57994	P0C214	A2RRL7	-0.98681
57995	P0C214	Q9GZN0	-1.2614
57996	P0C214	Q7L311	-0.98681
57997	P0C214	Q9P2S6	-0.50512
57998	P0C214	A8MUU1	-0.69029
57999	P0C214	Q8N3T1	-0.71565
58000	P0C214	Q9UPA5	-0.17256
58001	P0C214	Q9UGI6	-0.95167
58002	P0C214	P0CAP2	-0.12791
58003	P0C214	Q8NI32	-0.5764
58004	P0C214	Q6UXB2	-1.2176
58005	P0C214	Q9C029	-0.23426
58006	P0C214	P29323	-0.81265
58007	P0C214	P22362	-1.0201
58008	P0C214	Q8NFN8	-1.3342
58009	P0C214	Q8NHS2	-0.28731
58010	P0C214	Q15345	-0.37066
58011	P0C214	Q95972	-0.67709
58012	P0C214	Q14206	-0.72323
58013	P0C214	Q8N9Q2	-0.48942
58014	P0C214	Q9Y289	-0.88999
58015	P0C214	Q8NDG6	-0.52874
58016	P0C214	P41587	-1.4007
58017	P0C214	P54849	-1.2308
58018	P0C214	P25391	-0.75163
58019	P0C214	Q9BZW5	-0.81299
58020	P0C214	Q9NRS6	-0.1712
58021	P0C214	A6NHC0	-0.74793
58022	P0C214	P58335	-0.95313
58023	P0C214	Q4L180	-0.20678
58024	P0C214	Q4JDL3	-0.23522
58025	P0C214	Q86YJ5	-0.95236
58026	P0C214	Q5VXU9	-0.93834
58027	P0C214	Q9Y3R0	-0.22554
58028	P0C214	P09105	-0.45631
58029	P0C214	P0CJ73	-0.73145
58030	P0C214	Q8TBH0	-0.22444
58031	P0C214	Q96N67	-0.71496
58032	P0C214	Q9UHW9	-1.0097
58033	P0C214	A6NI47	-0.22739
58034	P0C214	Q5RGS3	-0.98681
58035	P0C214	P51512	-1.6246
58036	P0C214	Q8WWZ4	-1.3439
58037	P0C214	Q969N4	-1.3342
58038	P0C214	Q9P003	-0.85677
58039	P0C214	O75112	-0.45501
58040	P0C214	P61925	-0.46139
58041	P0C214	P43489	-0.8927
58042	P0C214	Q6WKZ4	-0.29898
58043	P0C214	Q8WVQ1	-0.90335
58044	P0C214	P63126	-0.45806
58045	P0C214	Q9ULD4	-0.22394
58046	P0C214	Q8WVF5	-0.15065
58047	P0C214	P22303	-0.22719
58048	P0C214	P38398	-0.22715
58049	P0C214	P08588	-0.68468
58050	P0C214	Q9BV29	-0.19718
58051	P0C214	Q13555	-0.83965
58052	P0C214	P34931	-0.52735
58053	P0C214	Q5VT66	-0.27014
58054	P0C214	Q9H2Q1	-0.98681
58055	P0C214	Q15485	-1.1188
58056	P0C214	Q9UJW2	-1.544
58057	P0C214	A6NFD8	-0.22715
58058	P0C214	Q15406	-0.38318
58059	P0C214	Q9Y251	-0.17222
58060	P0C214	Q16611	-0.22721
58061	P0C214	Q32NC0	-0.034374
58062	P0C214	P50336	-0.32489
58063	P0C214	Q9UNA3	-0.67308
58064	P0C214	P05997	-0.87319

58065	P0C214	Q6ZSB3	-0.29062
58066	P0C214	Q8NGJ0	-1.2952
58067	P0C214	Q5H8A3	-0.83443
58068	P0C214	Q8NBR0	-0.87046
58069	P0C214	Q9Y6N6	-1.1474
58070	P0C214	Q8WXK4	-0.5331
58071	P0C214	Q8TAL6	-0.74706
58072	P0C214	Q9UJA2	-0.4995
58073	P0C214	C9JI98	-0.98681
58074	P0C214	Q9NXH3	-0.25136
58075	P0C214	Q02742	-0.62442
58076	P0C214	Q9BXI6	-0.70979
58077	P0C214	Q99983	-0.83603
58078	P0C214	A6NN73	-0.2859
58079	P0C214	Q9NPH0	-0.63078
58080	P0C214	P34972	-1.2021
58081	P0C214	Q6U736	-1.287
58082	P0C214	P48741	-0.49158
58083	P0C214	Q02218	-0.14958
58084	P0C214	Q8N4L8	-0.35212
58085	P0C214	O76080	-0.3062
58086	P0C214	Q99453	-0.22422
58087	P0C214	Q8N6H7	-0.17228
58088	P0C214	P13501	-0.72551
58089	P0C214	P13726	-0.31884
58090	P0C214	A6NJ46	-0.22748
58091	P0C214	Q9H000	-0.61119
58092	P0C214	Q9HC29	-0.22726
58093	P0C214	Q75V66	-1.0492
58094	P0C214	Q8NHG7	-0.32953
58095	P0C214	O60896	-0.42442
58096	P0C214	P27448	-0.7539
58097	P0C214	Q8WVE7	-0.98681
58098	P0C214	P16473	-0.77451
58099	P0C214	Q9NY99	-0.37631
58100	P0C214	Q96H22	-0.073607
58101	P0C214	Q6ZRG5	-0.41632
58102	P0C214	Q9BXB1	-1.0367
58103	P0C214	Q9NYK1	-0.57972
58104	P0C214	Q14654	-0.54036
58105	P0C214	O75191	-0.73409
58106	P0C214	Q9UBK7	-1.0349
58107	P0C214	O43182	-0.53936
58108	P0C214	Q6UWN8	-0.77749
58109	P0C214	A6NGE7	-0.43983
58110	P0C214	O95936	-0.47529
58111	P0C214	Q9NVI7	-1.044
58112	P0C214	Q96J86	-0.81299
58113	P0C214	P53794	-1.1719
58114	P0C214	P00403	-0.49109
58115	P0C214	Q58EX7	-0.79655
58116	P0C214	Q7Z5J8	-0.98681
58117	P0C214	O14810	-0.25259
58118	P0C214	Q8N431	-0.7805
58119	P0C214	Q86WK6	-1.3538
58120	P0C214	P68106	-0.23081
58121	P0C214	Q0VAK6	-0.23552
58122	P0C214	O75602	-0.2949
58123	P0C214	O43451	-0.57168
58124	P0C214	Q9BYX7	-0.52329
58125	P0C214	O75746	-0.28101
58126	P0C214	Q6UW60	-1.2216
58127	P0C214	Q9UKY3	-0.80168
58128	P0C214	Q02224	-0.28882
58129	P0C214	Q86VR7	-0.98681
58130	P0C214	Q9NTX5	-0.1358
58131	P0C214	Q68BL8	-0.9878
58132	P0C214	A4QP2	-0.37285
58133	P0C214	Q99677	-1.5387
58134	P0C214	P07492	-1.0815
58135	P0C214	Q9Y2E8	-0.9831
58136	P0C214	Q96RP8	-0.98724
58137	P0C214	Q50LG9	-0.98681
58138	P0C214	P49662	-0.79329
58139	P0C214	Q8N6G5	-0.43428
58140	P0C214	Q6UWX4	-0.72827

58141	P0C214	Q9BU19	-0.11618
58142	P0C214	P19022	-0.5935
58143	P0C214	O60566	-0.2274
58144	P0C214	P49585	-0.16451
58145	P0C214	O94875	-0.22877
58146	P0C214	P24666	-0.15017
58147	P0C214	Q16626	-0.27831
58148	P0C214	Q9BYU5	-0.051359
58149	P0C214	P06727	-0.48148
58150	P0C214	Q6YBV0	-0.96365
58151	P0C214	P53667	-0.22741
58152	P0C214	P05141	-0.23887
58153	P0C214	Q8WV4	-0.44956
58154	P0C214	Q5TEA3	-0.48919
58155	P0C214	Q9BQE6	-0.0097204
58156	P0C214	A2RU54	-0.23992
58157	P0C214	Q96LD4	-0.22727
58158	P0C214	A6NM10	-1.0569
58159	P0C214	P51843	-0.22729
58160	P0C214	Q8IVJ8	-0.98681
58161	P0C214	Q8IYJ0	-0.98681
58162	P0C214	Q9NYB9	-0.24942
58163	P0C214	P51168	-0.61334
58164	P0C214	Q9HD43	-0.22742
58165	P0C214	Q99518	-0.74369
58166	P0C214	Q96QD5	-0.053741
58167	P0C214	Q8IUX7	-0.51462
58168	P0C214	O43739	-0.55402
58169	P0C214	O43323	-0.8348
58170	P0C214	A8MWP4	-0.3609
58171	P0C214	Q8WUY8	-0.32831
58172	P0C214	Q92826	-0.22719
58173	P0C214	Q9NY72	-0.65737
58174	P0C214	Q9NX52	-1.4087
58175	P0C214	Q86YS7	-0.53241
58176	P0C214	Q7L4P6	-0.2859
58177	P0C214	P30968	-1.5476
58178	P0C214	Q8TDJ6	-0.54172
58179	P0C214	Q9Y6M0	-0.84079
58180	P0C214	Q6ZN18	-0.42912
58181	P0C214	Q8TBZ2	-0.30406
58182	P0C214	Q96Q40	-1.1107
58183	P0C214	O43423	-0.094548
58184	P0C214	Q9Y5R6	-0.19497
58185	P0C214	Q9Y6C2	-0.70102
58186	P0C214	Q8TBF8	-0.22471
58187	P0C214	Q9BTD8	-0.31203
58188	P0C214	A6NIR3	-1.0294
58189	P0C214	O15120	-0.58189
58190	P0C214	Q86Y33	-0.22741
58191	P0C214	P43155	-0.30326
58192	P0C214	Q96RR4	-1.1055
58193	P0C214	O43543	-0.15601
58194	P0C214	P08949	-0.79496
58195	P0C214	Q9P260	-0.34015
58196	P0C214	O95749	-0.11402
58197	P0C214	Q9NXU5	-1.2665
58198	P0C214	Q5JPF3	-0.38316
58199	P0C214	Q6IPR3	-0.28525
58200	P0C214	P60468	-0.30891
58201	P0C214	Q9HCL2	-0.34122
58202	P0C214	Q9NQ79	-0.9698
58203	P0C214	Q9NYW7	-1.1937
58204	P0C214	O75541	-0.2376
58205	P0C214	Q13461	-0.41532
58206	P0C214	P13716	-0.21765
58207	P0C214	Q16553	-0.64893
58208	P0C214	P56278	-0.16956
58209	P0C214	Q5VVP1	-0.98681
58210	P0C214	Q0VAM2	-0.78937
58211	P0C214	A6NC57	-0.2274
58212	P0C214	Q8N1H7	-0.50691
58213	P0C214	Q9NU23	-0.2401
58214	P0C214	Q5DT21	-0.22598
58215	P0C214	Q8NB90	-0.93183
58216	P0C214	Q6NSJ0	-0.57304

58217	P0C214	Q32ZL2	-0.96166
58218	P0C214	Q9NZV5	-0.2557
58219	P0C214	A7XYQ1	-0.48597
58220	P0C214	Q9UFE4	-0.43475
58221	P0C214	Q8NH72	-1.2952
58222	P0C214	Q5SZQ8	-0.31591
58223	P0C214	Q9UBL9	-0.59928
58224	P0C214	Q8NHH1	-0.39741
58225	P0C214	O00187	-0.97981
58226	P0C214	Q5VWW1	-0.94604
58227	P0C214	B2RUZ4	-0.98681
58228	P0C214	Q12926	-0.30258
58229	P0C214	Q9Y4L1	-0.52541
58230	P0C214	Q4G0N8	-1.1855
58231	P0C214	O75319	-0.55983
58232	P0C214	Q7Z769	-0.98681
58233	P0C214	P47211	-1.2642
58234	P0C214	P60606	-0.96345
58235	P0C214	Q14190	-0.25638
58236	P0C214	P06133	-0.88715
58237	P0C214	Q9HBI5	-0.22463
58238	P0C214	Q06413	-0.10239
58239	P0C214	P53420	-0.89557
58240	P0C214	Q86Y38	-1.0304
58241	P0C214	O14967	-0.84562
58242	P0C214	O75643	-0.22657
58243	P0C214	P04629	-0.60742
58244	P0C214	Q01196	-0.45246
58245	P0C214	Q9Y6T7	-0.77528
58246	P0C214	Q4V339	-0.79608
58247	P0C214	P48775	-0.15698
58248	P0C214	Q9H4D0	-0.97835
58249	P0C214	Q15041	-0.19213
58250	P0C214	Q5VWZ2	-0.18058
58251	P0C214	Q9BXX0	-0.53706
58252	P0C214	Q2M3C6	-0.98681
58253	P0C214	Q86V40	-1.2185
58254	P0C214	P01137	-0.22741
58255	P0C214	Q13275	-0.88073
58256	P0C214	A6NLI5	-0.71534
58257	P0C214	P55064	-0.61551
58258	P0C214	P01609	-1.0022
58259	P0C214	Q68DQ2	-0.39457
58260	P0C214	A6NKP2	-0.60766
58261	P0C214	Q8N8D7	-1.0708
58262	P0C214	Q6ZNE9	-0.42254
58263	P0C214	O15327	-0.22991
58264	P0C214	Q8N8R5	-0.91736
58265	P0C214	Q8NG35	-0.88056
58266	P0C214	Q9NQW8	-1.5169
58267	P0C214	Q18PE1	-0.71558
58268	P0C214	Q8NFB2	-0.98681
58269	P0C214	Q9BS40	-0.74313
58270	P0C214	P09326	-0.58723
58271	P0C214	Q9NZ32	-0.27304
58272	P0C214	P12034	-0.59828
58273	P0C214	Q04609	-0.89801
58274	P0C214	Q5SWX8	-1.0515
58275	P0C214	Q13133	-0.23393
58276	P0C214	P14543	-1.0856
58277	P0C214	Q9HAQ2	-0.63838
58278	P0C214	Q6N075	-1.0564
58279	P0C214	Q9NZR2	-0.90399
58280	P0C214	Q6PHR2	-0.61016
58281	P0C214	Q96D09	-0.20563
58282	P0C214	Q9H3S3	-1.4726
58283	P0C214	Q9NSA2	-1.0245
58284	P0C214	Q7Z4Y8	-0.4251
58285	P0C214	P60508	-0.93452
58286	P0C214	P07510	-1.1474
58287	P0C214	Q86SG5	-0.28944
58288	P0C214	A0PJZ0	-0.22741
58289	P0C214	Q86YD5	-1.0181
58290	P0C214	O14921	-0.2281
58291	P0C214	E5RJM6	-0.22741
58292	P0C214	P0C7H8	-0.38191

58293	P0C214	A6PVS8	-0.22683
58294	P0C214	Q86WA9	-1.0182
58295	P0C214	O75949	-0.98681
58296	P0C214	Q6MZQ0	-0.28468
58297	P0C214	Q5T6L9	-0.98681
58298	P0C214	Q86XT2	-0.13694
58299	P0C214	Q9H7F4	-0.98681
58300	P0C214	Q9HCE0	-0.41005
58301	P0C214	A6NDD5	-0.87079
58302	P0C214	Q9UEW8	-0.76611
58303	P0C214	Q8IWU2	-0.85652
58304	P0C214	Q8N4Z0	-1.1234
58305	P0C214	Q9UIW2	-0.73943
58306	P0C214	Q7L2Z9	-0.22407
58307	P0C214	Q8IY21	-0.22021
58308	P0C214	P51991	-0.24402
58309	P0C214	P22103	-0.22149
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58311	P0C214	Q9UBX2	-0.16414
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58313	P0C214	P19087	-0.873
58314	P0C214	Q9C0B0	-0.5018
58315	P0C214	Q14789	-0.2442
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58321	P0C214	Q5TA50	-0.19377
58322	P0C214	P39900	-1.2684
58323	P0C214	Q8IX29	-0.20685
58324	P0C214	P29317	-0.60857
58325	P0C214	Q969W9	-0.9188
58326	P0C214	P00918	-0.16506
58327	P0C214	P31994	-0.5093
58328	P0C214	Q149N8	-0.615
58329	P0C214	Q8N7P3	-0.848
58330	P0C214	P19404	-0.14809
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58332	P0C214	P31277	-0.37299
58333	P0C214	O76093	-0.55901
58334	P0C214	O95741	-0.50707
58335	P0C214	P43119	-0.96897
58336	P0C214	Q9GZQ8	-0.29985
58337	P0C214	P48507	-0.16224
58338	P0C214	Q2TVT4	-0.31719
58339	P0C214	Q96C24	-0.23339
58340	P0C214	Q92567	-0.24013
58341	P0C214	Q8N6K7	-0.21363
58342	P0C214	P0CF74	-0.99256
58343	P0C214	Q6UXY1	-0.80615
58344	P0C214	P30953	-1.2952
58345	P0C214	Q9H0J4	-0.19349
58346	P0C214	Q96LW2	-1.2407
58347	P0C214	P32456	-0.19913
58348	P0C214	Q5VZ89	-0.66379
58349	P0C214	Q9NPB9	-1.404
58350	P0C214	Q9BQT9	-0.97835
58351	P0C214	Q9NT68	-0.73874
58352	P0C214	P11509	-0.54126
58353	P0C214	Q9C0C4	-0.81561
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58355	P0C214	Q9Y4E8	-0.3907
58356	P0C214	P22492	-1.0963
58357	P0C214	Q8TBM7	-0.98681
58358	P0C214	P02729	-0.76523
58359	P0C214	Q6ZMJ4	-0.64421
58360	P0C214	Q9H0Y0	-0.36972
58361	P0C214	P08686	-0.61302
58362	P0C214	Q12836	-1.2481
58363	P0C214	Q8IVE3	-0.90468
58364	P0C214	Q9NS69	-0.2664
58365	P0C214	Q6P1M0	-1.0494
58366	P0C214	Q8NBH2	-0.48257
58367	P0C214	Q15762	-0.76609
58368	P0C214	Q12907	-0.62006

58369	P0C214	P42857	-0.34341
58370	P0C214	P0C0L4	-1.0394
58371	P0C214	Q6ZSZ5	-0.44861
58372	P0C214	Q7Z5U6	-0.22765
58373	P0C214	P04217	-0.76523
58374	P0C214	O60542	-0.6551
58375	P0C214	P46531	-0.22784
58376	P0C214	P47992	-0.43267
58377	P0C214	Q8NGD1	-1.2952
58378	P0C214	Q13467	-0.44655
58379	P0C214	Q13478	-1.2179
58380	P0C214	Q8TBC4	-0.22363
58381	P0C214	P27144	-0.52417
58382	P0C214	Q8N816	-0.98681
58383	P0C214	Q8NGH8	-1.2952
58384	P0C214	Q9NQC7	-0.20277
58385	P0C214	Q96DT6	-0.64075
58386	P0C214	P47900	-0.85112
58387	P0C214	Q8NGH7	-1.2952
58388	P0C214	Q8TD91	-0.11371
58389	P0C214	Q96SQ7	-0.22774
58390	P0C214	Q8IVL0	-0.58117
58391	P0C214	Q9BX69	-0.50844
58392	P0C214	Q8IZL9	-0.30615
58393	P0C214	Q8WTR4	-0.62437
58394	P0C214	Q6EMK4	-1.4408
58395	P0C214	Q96M15	-0.47517
58396	P0C214	P61109	-0.91736
58397	P0C214	Q8N122	-0.22741
58398	P0C214	Q01581	-0.17852
58399	P0C214	P03915	-0.39007
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58403	P0C214	Q9NZC4	-0.12587
58404	P0C214	Q14680	-0.52331
58405	P0C214	Q9H4K7	-0.593
58406	P0C214	Q8N5K1	-0.34688
58407	P0C214	O95807	-0.73221
58408	P0C214	Q8NBN7	-0.87464
58409	P0C214	Q96FS4	-0.22048
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58412	P0C214	Q8N878	-0.41401
58413	P0C214	Q9UKA9	-0.46118
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58416	P0C214	Q15828	-0.85659
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58419	P0C214	A6NCX1	-0.23413
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58431	P0C214	P01111	-0.53683
58432	P0C214	Q9NZ45	-0.89063
58433	P0C214	Q9NQ88	-0.62213
58434	P0C214	Q8N4E4	-0.17411
58435	P0C214	Q9UHV5	-0.77163
58436	P0C214	P62955	-1.0316
58437	P0C214	Q8NFR3	-0.39547
58438	P0C214	P01767	-1.0022
58439	P0C214	Q5VTJ3	-0.98681
58440	P0C214	Q6PL18	-0.23378
58441	P0C214	Q9UHP6	-0.20133
58442	P0C214	Q8ND82	-0.22703
58443	P0C214	Q8IYG6	-0.1026
58444	P0C214	P24752	-0.16481

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58446	P0C214	Q96PD7	-0.20448
58447	P0C214	Q14627	-1.1441
58448	P0C214	Q11128	-0.61567
58449	P0C214	Q9Y483	-0.22815
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58451	P0C214	Q8N162	-1.2952
58452	P0C214	Q96IQ7	-1.128
58453	P0C214	P01621	-1.0022
58454	P0C214	Q8TEW6	-0.39463
58455	P0C214	Q6ZV73	-0.8217
58456	P0C214	Q8WWW8	-0.52301
58457	P0C214	A6NGQ2	-0.12844
58458	P0C214	P20648	-1.0746
58459	P0C214	Q9Y4D7	-1.1054
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58461	P0C214	Q09428	-0.61425
58462	P0C214	Q8N3T6	-0.68883
58463	P0C214	P43366	-0.061241
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58465	P0C214	P35453	-0.22739
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58470	P0C214	Q5SR56	-1.113
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58473	P0C214	P20719	-0.35272
58474	P0C214	Q9BYB4	-0.22763
58475	P0C214	Q96L11	-0.91736
58476	P0C214	Q9Y5U5	-1.424
58477	P0C214	Q6PJQ5	-0.40151
58478	P0C214	A6NNM3	-0.22738
58479	P0C214	P07339	-1.0649
58480	P0C214	P18509	-0.71199
58481	P0C214	Q9P1Z9	-0.98681
58482	P0C214	Q6UX15	-1.0577
58483	P0C214	P0C869	-0.36336
58484	P0C214	Q13671	-0.35863
58485	P0C214	P18283	-0.42939
58486	P0C214	Q9NR31	-0.40092
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58493	P0C214	Q8IX21	-0.22116
58494	P0C214	Q99880	-0.85588
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58516	P0C214	Q495D7	-0.11188
58517	P0C214	Q15493	-0.16232
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58519	P0C214	Q7Z4W1	-0.53508
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58550	P0C214	Q13950	-0.56875
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58558	P0C214	Q9UL01	-0.34591
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58563	P0C214	Q9C026	-0.65512
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58568	P0C214	Q9H2S5	-0.23901
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58571	P0C214	Q14694	-0.29278
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58575	P0C214	O43749	-1.2952
58576	P0C214	Q9P202	-0.22632
58577	P0C214	Q6ZMM2	-1.0374
58578	P0C214	Q92619	-0.84214
58579	P0C214	P39877	-0.57849
58580	P0C214	Q96BR9	-0.21636
58581	P0C214	Q8NHW4	-0.99458
58582	P0C214	Q96M93	-0.81227
58583	P0C214	P01777	-1.0022
58584	P0C214	Q9BXT4	-0.70259
58585	P0C214	Q8WUH1	-0.32241
58586	P0C214	P19105	-0.349
58587	P0C214	Q96P88	-1.2999
58588	P0C214	P80098	-0.92459
58589	P0C214	P24593	-0.34365
58590	P0C214	P04808	-1.0407
58591	P0C214	Q9NYC9	-0.63309
58592	P0C214	Q6NT32	-0.74652
58593	P0C214	P00488	-0.35931
58594	P0C214	Q7Z602	-1.3693
58595	P0C214	O00244	-0.35545
58596	P0C214	P20151	-1.3911



58597	P0C214	Q86YN6	-0.22551
58598	P0C214	Q5BKX6	-1.0564
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58602	P0C214	Q1AE95	-0.98681
58603	P0C214	O14683	-0.9954
58604	P0C214	Q49MI3	-0.41869
58605	P0C214	P01595	-1.0022
58606	P0C214	P29074	-0.22756
58607	P0C214	Q8TDQ7	-0.10821
58608	P0C214	P03952	-0.71386
58609	P0C214	P62699	-0.46159
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58613	P0C214	O00270	-1.4957
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58615	P0C214	Q9BPX5	-0.28639
58616	P0C214	Q9BXR6	-0.89655
58617	P0C214	Q8N100	-0.2291
58618	P0C214	Q6UXS0	-0.90767
58619	P0C214	Q86VF5	-0.71887
58620	P0C214	Q86VI4	-0.70526
58621	P0C214	Q9P227	-1.1547
58622	P0C214	P18075	-0.22741
58623	P0C214	Q9H422	-0.35295
58624	P0C214	P53365	-0.21937
58625	P0C214	P15812	-1.0391
58626	P0C214	P80421	-0.91671
58627	P0C214	Q5T2S8	-0.22834
58628	P0C214	P10301	-0.58793
58629	P0C214	P28336	-1.2265
58630	P0C214	Q6W3E5	-0.87221
58631	P0C214	Q9P2N2	-0.36183
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58634	P0C214	Q13520	-0.94819
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58636	P0C214	P35410	-0.64774
58637	P0C214	O60361	-0.85582
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58643	P0C214	Q7RTY3	-0.97208
58644	P0C214	A6NHN6	-0.91736
58645	P0C214	Q16819	-1.3369
58646	P0C214	A6NJI1	-0.14335
58647	P0C214	Q6UX72	-0.82935
58648	P0C214	Q9H4Y5	-0.21189
58649	P0C214	Q6NTF7	-0.17305
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58651	P0C214	O60242	-1.4279
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58653	P0C214	O00746	-0.48701
58654	P0C214	O76076	-1.0305
58655	P0C214	A1A5C7	-1.114
58656	P0C214	Q96A23	-0.22688
58657	P0C214	Q92626	-0.99098
58658	P0C214	P56962	-0.80484
58659	P0C214	P20039	-0.77415
58660	P0C214	Q06141	-0.91251
58661	P0C214	O94768	-0.92184
58662	P0C214	P01730	-0.42223
58663	P0C214	Q6AWC2	-0.2274
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58666	P0C214	Q7Z5N4	-1.1636
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58671	P0C214	Q6PJG9	-0.98681
58672	P0C214	P49638	-0.2749

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58674	P0C214	Q9NS75	-1.2009
58675	P0C214	Q9UBU6	-0.98681
58676	P0C214	Q32NB8	-0.44167
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58682	P0C214	Q8TB68	-0.8702
58683	P0C214	Q15516	-0.22746
58684	P0C214	Q9P0P8	-0.16493
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58686	P0C214	Q92630	-0.57297
58687	P0C214	Q8NB46	-0.22727
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58689	P0C214	Q5W0Q7	-0.4245
58690	P0C214	P04003	-0.24628
58691	P0C214	Q9Y5H8	-1.2636
58692	P0C214	P12814	-0.38437
58693	P0C214	P50395	-0.18015
58694	P0C214	Q9BZD2	-1.0466
58695	P0C214	P56880	-0.848
58696	P0C214	Q6UXV4	-0.64121
58697	P0C214	P47887	-1.3632
58698	P0C214	P55082	-1.0708
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58703	P0C214	P05408	-0.51635
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58706	P0C214	Q14147	-0.96587
58707	P0C214	Q9H093	-0.58764
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58723	P0C214	P06126	-0.55617
58724	P0C214	Q8NG41	-0.32653
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58728	P0C214	Q08357	-1.1504
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58733	P0C214	Q60493	-0.22187
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58736	P0C214	Q10588	-0.90311
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58740	P0C214	P47881	-1.2952
58741	P0C214	P51801	-1.1375
58742	P0C214	Q9NS71	-0.49061
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58744	P0C214	P02724	-1.0001
58745	P0C214	Q9HD90	-0.22781
58746	P0C214	P01773	-1.0022
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58748	P0C214	Q4G148	-0.53813

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58750	P0C214	Q13136	-0.22668
58751	P0C214	Q16280	-1.3451
58752	P0C214	Q9HDB9	-0.45806
58753	P0C214	Q8NGP9	-1.2952
58754	P0C214	Q31610	-1.0367
58755	P0C214	O14569	-0.97411
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58757	P0C214	Q13087	-0.3046
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58771	P0C214	Q02846	-1.4609
58772	P0C214	P12268	-0.50534
58773	P0C214	Q6UX65	-0.88572
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58776	P0C214	P46093	-1.4957
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58783	P0C214	P49448	-0.47675
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58789	P0C214	P06028	-1.2123
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58791	P0C214	P0C7W9	-0.4589
58792	P0C214	Q9NS68	-0.76292
58793	P0C214	Q15615	-1.2952
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58796	P0C214	Q86WK9	-1.3884
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58798	P0C214	Q9H244	-0.7961
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58804	P0C214	Q96EP0	-0.18411
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58826	P0C214	Q86VK4	-0.19606
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58828	P0C214	Q9UF56	-0.21769
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58845	P0C214	Q00535	-0.20549
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58849	P0C214	Q9Y600	-0.38794
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58852	P0C214	Q92686	-0.39124
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58856	P0C214	P31995	-0.29636
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58859	P0C214	Q96RD7	-0.86858
58860	P0C214	Q8NA54	-0.3041
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58875	P0C214	P01031	-0.72365
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58947	P0C214	Q9P291	-0.98681
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58979	P0C214	Q8TF44	-0.21436
58980	P0C214	O43283	-0.52765
58981	P0C214	P30039	-0.1792
58982	P0C214	P53814	-0.30812
58983	P0C214	P11678	-0.57571
58984	P0C214	Q92851	-0.2261
58985	P0C214	Q96A37	-0.71534
58986	P0C214	Q5VZV1	-0.33624
58987	P0C214	Q0JRZ9	-0.2249
58988	P0C214	O43709	-0.41157
58989	P0C214	Q8N7C4	-0.98681
58990	P0C214	P62333	-0.3823
58991	P0C214	Q9UBI9	-0.45609
58992	P0C214	Q86WC4	-0.7827
58993	P0C214	Q6ZVT0	-0.10503
58994	P0C214	P51617	-0.22736
58995	P0C214	Q99640	-0.22741
58996	P0C214	Q9UHC9	-0.41179
58997	P0C214	Q9UJA3	-0.29205
58998	P0C214	P13674	-0.30923
58999	P0C214	Q9UPY3	-0.20869
59000	P0C214	Q6ZUS6	-0.15789
59001	P0C214	O43781	-1.0767
59002	P0C214	O15020	-0.22805
59003	P0C214	P09884	-0.2728
59004	P0C214	Q15077	-1.229
59005	P0C214	Q96RQ3	-0.42686
59006	P0C214	P04745	-0.22745
59007	P0C214	O43818	-0.23051
59008	P0C214	Q96FL8	-0.97657
59009	P0C214	Q9NWT1	-0.22851
59010	P0C214	O95876	-0.49725
59011	P0C214	Q6UXU0	-0.91736
59012	P0C214	Q9H6S3	-0.29935
59013	P0C214	Q8N907	-0.68109
59014	P0C214	P01112	-0.22806
59015	P0C214	O95996	-0.22726
59016	P0C214	P49862	-1.3677
59017	P0C214	Q8N126	-1.0027
59018	P0C214	Q96RB7	-1.2952
59019	P0C214	Q96MG8	-0.12875
59020	P0C214	Q8NAU1	-1.1553
59021	P0C214	Q99836	-0.2274
59022	P0C214	O00408	-0.22626
59023	P0C214	O15165	-0.88899
59024	P0C214	Q12866	-0.63239
59025	P0C214	P08637	-1.4426
59026	P0C214	P09429	-0.22916
59027	P0C214	Q8N5I2	-0.25764
59028	P0C214	P20813	-0.56608
59029	P0C214	Q8TDM6	-0.50325
59030	P0C214	P82251	-1.0669
59031	P0C214	Q9BWT3	-0.36268
59032	P0C214	Q4G0N4	-0.36233
59033	P0C214	Q9UJZ1	-0.12497
59034	P0C214	Q6ZMB5	-0.98681
59035	P0C214	O95897	-0.91736
59036	P0C214	Q8TAV5	-0.91736
59037	P0C214	Q8TD57	-0.72948
59038	P0C214	Q5HYL7	-0.98681
59039	P0C214	Q96A72	-0.13524
59040	P0C214	Q6ZVU0	-0.43096
59041	P0C214	Q9BXA5	-1.2541
59042	P0C214	Q9NV66	-0.85577
59043	P0C214	Q9UJ90	-0.96932
59044	P0C214	O60687	-0.36851
59045	P0C214	P04141	-0.067625
59046	P0C214	Q5TEU4	-0.14663
59047	P0C214	P43235	-0.65747
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59049	P0C214	P0CG23	-0.70722
59050	P0C214	Q8TBZ3	-0.22742
59051	P0C214	Q9H6P5	-0.71493
59052	P0C214	Q96NW4	-0.22741

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59054	P0C214	Q5EBN2	-0.71534
59055	P0C214	Q5T2D3	-0.27276
59056	P0C214	Q75747	-0.59482
59057	P0C214	P04222	-1.0367
59058	P0C214	Q9NQY0	-0.46246
59059	P0C214	Q8WX39	-0.96833
59060	P0C214	Q9NXR5	-0.22741
59061	P0C214	Q9BT04	-0.26742
59062	P0C214	Q8NGC3	-1.2952
59063	P0C214	Q96I13	-0.44049
59064	P0C214	A6NGY5	-1.2952
59065	P0C214	O60306	-0.42828
59066	P0C214	P78524	-0.40279
59067	P0C214	Q9H252	-1.0585
59068	P0C214	Q9NUY8	-0.96894
59069	P0C214	P98172	-0.22035
59070	P0C214	Q99650	-0.7488
59071	P0C214	Q9NPA0	-0.69313
59072	P0C214	Q9GZZ6	-0.9883
59073	P0C214	Q9BT88	-0.64021
59074	P0C214	A6NMB1	-1.1462
59075	P0C214	Q9H270	-0.22652
59076	P0C214	P53597	-0.31887
59077	P0C214	Q8NI60	-0.80172
59078	P0C214	Q13882	-0.61879
59079	P0C214	Q6ZQW0	-0.20662
59080	P0C214	P57682	-0.36272
59081	P0C214	Q8IX05	-0.89169
59082	P0C214	Q9H9P5	-0.22738
59083	P0C214	Q01449	-0.31432
59084	P0C214	Q8N339	-0.11625
59085	P0C214	P63316	-0.2222
59086	P0C214	Q15166	-0.72536
59087	P0C214	Q8N3C7	-0.22741
59088	P0C214	Q9NQ03	-0.18848
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59092	P0C214	O43307	-0.46436
59093	P0C214	Q00604	-0.67758
59094	P0C214	P20333	-0.71065
59095	P0C214	Q9NZI2	-0.66097
59096	P0C214	Q7L985	-0.98681
59097	P0C214	Q64LD2	-0.22767
59098	P0C214	A6NIJ9	-1.2952
59099	P0C214	P51688	-0.37579
59100	P0C214	P00352	-0.39366
59101	P0C214	O96011	-0.13781
59102	P0C214	P0CG38	-0.38765
59103	P0C214	Q2UY09	-1.0408
59104	P0C214	Q96T91	-0.89474
59105	P0C214	Q502W7	-0.1699
59106	P0C214	P20020	-0.71192
59107	P0C214	Q7Z410	-1.5452
59108	P0C214	Q96PP4	-0.37697
59109	P0C214	Q3V5L5	-0.79693
59110	P0C214	P61019	-0.55154
59111	P0C214	O60234	-0.61445
59112	P0C214	O15247	-0.78548
59113	P0C214	O43432	-0.11272
59114	P0C214	Q32M88	-0.24741
59115	P0C214	Q96NL1	-1.0525
59116	P0C214	Q9NQC3	-0.1988
59117	P0C214	Q9HC21	-0.7711
59118	P0C214	A6NE01	-0.18471
59119	P0C214	Q14554	-0.2931
59120	P0C214	Q6P1Q9	-0.33624
59121	P0C214	O15466	-0.59339
59122	P0C214	Q99727	-0.78669
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59124	P0C214	P43626	-0.64384
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59126	P0C214	Q8N8P7	-0.91736
59127	P0C214	Q16635	-0.44329
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59135	P0C214	P04040	-0.23764
59136	P0C214	Q86YS3	-0.17288
59137	P0C214	Q02252	-0.28978
59138	P0C214	Q16853	-1.0178
59139	P0C214	Q9NX61	-0.89279
59140	P0C214	Q8NHL6	-0.34277
59141	P0C214	O75116	-0.23441
59142	P0C214	Q86UP3	-0.22535
59143	P0C214	P20023	-0.9393
59144	P0C214	P0DJJ0	-0.3618
59145	P0C214	P0CJ71	-0.73145
59146	P0C214	Q15438	-0.22741
59147	P0C214	Q9H8G2	-0.33895
59148	P0C214	Q9NUE0	-1.0846
59149	P0C214	Q9H257	-0.2464
59150	P0C214	Q96AD5	-0.5088
59151	P0C214	P14923	-0.57988
59152	P0C214	P08246	-0.59829
59153	P0C214	Q15761	-1.0169
59154	P0C214	Q8IUE1	-0.23401
59155	P0C214	Q92805	-0.20985
59156	P0C214	Q8NC69	-0.12074
59157	P0C214	Q9P0U4	-0.22734
59158	P0C214	Q16644	-0.23001
59159	P0C214	O75882	-1.3756
59160	P0C214	Q9UJV9	-0.54575
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59162	P0C214	Q14916	-1.1749
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59164	P0C214	P02775	-0.46181
59165	P0C214	Q86YT9	-0.91298
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59167	P0C214	Q562R1	-0.64552
59168	P0C214	Q96PL2	-1.0426
59169	P0C214	Q9P289	-0.27693
59170	P0C214	Q7Z404	-0.98681
59171	P0C214	O00292	-0.5721
59172	P0C214	Q8NGZ6	-1.2952
59173	P0C214	Q6ZSY5	-0.9091
59174	P0C214	P03956	-1.1576
59175	P0C214	O14841	-0.31578
59176	P0C214	Q96TA2	-1.1947
59177	P0C214	O95677	-0.048645
59178	P0C214	Q9Y3P9	-0.22934
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59180	P0C214	Q96E66	-0.22741
59181	P0C214	P30501	-1.0938
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59185	P0C214	Q8TB92	-0.1458
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59187	P0C214	O95342	-0.9394
59188	P0C214	Q6UW88	-1.0779
59189	P0C214	P62834	-0.2286
59190	P0C214	Q99218	-1.1894
59191	P0C214	Q8NG11	-0.98681
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59193	P0C214	P0CJ76	-0.73145
59194	P0C214	Q96NZ9	-0.91736
59195	P0C214	Q53QZ3	-0.78689
59196	P0C214	O95377	-1.0092
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59198	P0C214	P51648	-0.90514
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59202	P0C214	Q16661	-0.80205
59203	P0C214	Q8IWT3	-0.22627
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59205	P0C214	Q9BSJ1	-0.71534
59206	P0C214	P10412	-0.09292
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59208	P0C214	Q14574	-1.1591
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59210	P0C214	Q9NXG6	-1.0474
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59212	P0C214	Q96E35	-0.43131
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59223	P0C214	Q95409	-0.39612
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59226	P0C214	P30038	-0.25989
59227	P0C214	P0C5K7	-0.30515
59228	P0C214	Q95183	-1.0849
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59230	P0C214	Q9NPG1	-0.57492
59231	P0C214	Q969M1	-0.53935
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59233	P0C214	P87889	-0.33852
59234	P0C214	Q96T53	-0.83243
59235	P0C214	Q9UEY8	-0.19782
59236	P0C214	Q6UXZ4	-1.0577
59237	P0C214	Q96NR7	-0.35434
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59239	P0C214	Q8NGD3	-1.2952
59240	P0C214	Q96MG2	-0.52054
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59244	P0C214	P56179	-0.3119
59245	P0C214	Q6ZN16	-1.1794
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59247	P0C214	Q8N554	-0.19753
59248	P0C214	P30685	-1.0367
59249	P0C214	Q96P11	-0.33624
59250	P0C214	Q9Y6M5	-0.86525
59251	P0C214	Q86YV5	-1.2129
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59254	P0C214	O75038	-0.39456
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59257	P0C214	P23142	-0.99996
59258	P0C214	P13796	-0.47358
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59260	P0C214	Q9NRH2	-1.0596
59261	P0C214	P59510	-1.1449
59262	P0C214	Q9NV23	-0.4273
59263	P0C214	Q49AJ0	-0.040748
59264	P0C214	Q8NI28	-0.98681
59265	P0C214	Q9BVV7	-0.44255
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59267	P0C214	P32247	-1.1408
59268	P0C214	P08138	-0.2688
59269	P0C214	Q05315	-0.57537
59270	P0C214	Q9UQ03	-0.41681
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59272	P0C214	Q9NR23	-0.69184
59273	P0C214	Q9NW13	-0.24404
59274	P0C214	P08236	-0.351
59275	P0C214	Q68CK6	-0.43986
59276	P0C214	Q9UIF3	-0.078342
59277	P0C214	Q8NCL4	-0.6349
59278	P0C214	P06310	-1.0022
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59295	P0C214	Q92625	-0.22741
59296	P0C214	A6NNC1	-0.98681
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59299	P0C214	Q6UB99	-0.22742
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59306	P0C214	O14842	-1.1461
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59326	P0C214	Q8WU66	-0.79851
59327	P0C214	Q9HAS3	-0.94311
59328	P0C214	Q5VWM3	-0.18615
59329	P0C214	Q6ZMU1	-0.37307
59330	P0C214	Q5SQS7	-0.22741
59331	P0C214	P06753	-0.23635
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59336	P0C214	Q9HA72	-0.98681
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59338	P0C214	Q92874	-0.84329
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59347	P0C214	Q8WXR4	-1.0428
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59350	P0C214	Q93099	-0.13717
59351	P0C214	P52429	-1.2589
59352	P0C214	Q6ZQY2	-0.22732
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59354	P0C214	P20273	-0.77956
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59359	P0C214	O14827	-0.51451
59360	P0C214	Q96RT6	-0.81992
59361	P0C214	O00459	-0.2274
59362	P0C214	O14960	-0.82411
59363	P0C214	Q96M42	-0.7605
59364	P0C214	O75493	-0.81949
59365	P0C214	Q9BUT1	-0.41423
59366	P0C214	Q8N9P0	-0.17328
59367	P0C214	Q9NQ76	-0.38709
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59376	P0C214	P30457	-0.91186
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59379	P0C214	Q16623	-0.42233
59380	P0C214	P01615	-1.0022
59381	P0C214	Q8IVA1	-0.57589
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59383	P0C214	Q8TE96	-0.40379
59384	P0C214	P06316	-1.0022
59385	P0C214	A6NHZ5	-0.22584
59386	P0C214	P38484	-1.0288
59387	P0C214	P58549	-1.1295
59388	P0C214	Q8N4V2	-0.89213
59389	P0C214	P41226	-0.31936
59390	P0C214	Q8NH79	-1.2952
59391	P0C214	Q9BXI2	-0.58693
59392	P0C214	Q6ZNF0	-0.86099
59393	P0C214	A5X5Y0	-1.1179
59394	P0C214	Q6P5X7	-0.98681
59395	P0C214	Q9NSC7	-0.77405
59396	P0C214	Q5SGD2	-0.59902
59397	P0C214	Q17R89	-0.31628
59398	P0C214	Q14D04	-0.69773
59399	P0C214	Q9UI42	-1.1069
59400	P0C214	Q5VWJ9	-0.30777
59401	P0C214	Q5U4N7	-0.15381
59402	P0C214	P58401	-1.1636
59403	P0C214	P04066	-0.22376
59404	P0C214	Q9BRK0	-0.98681
59405	P0C214	O15427	-0.71669
59406	P0C214	P31153	-0.41969
59407	P0C214	Q6UXP9	-0.46051
59408	P0C214	Q9BXR3	-0.33459
59409	P0C214	Q8NBF6	-0.94627
59410	P0C214	P43405	-0.26478
59411	P0C214	Q5VVX9	-0.67194
59412	P0C214	Q8NH07	-1.2952
59413	P0C214	Q13303	-0.95274
59414	P0C214	O95424	-0.24982
59415	P0C214	Q86WA6	-0.18627
59416	P0C214	A6NKL6	-0.98681
59417	P0C214	Q9Y5I3	-1.6431
59418	P0C214	P22528	-0.20394
59419	P0C214	P35913	-0.35491
59420	P0C214	Q96PV4	-0.33895
59421	P0C214	Q9H943	-0.3353
59422	P0C214	Q96AW1	-0.68292
59423	P0C214	Q9NRZ7	-0.66527
59424	P0C214	A2RUU4	-0.91664
59425	P0C214	Q08499	-0.22387
59426	P0C214	P10398	-0.25073
59427	P0C214	P0C7U1	-0.058913
59428	P0C214	P28676	-0.47953
59429	P0C214	Q8NDY8	-0.98681
59430	P0C214	Q9BYG7	-0.18931
59431	P0C214	Q5M9N0	-0.15933
59432	P0C214	Q86UA1	-0.12373

59433	P0C214	Q99578	-0.79235
59434	P0C214	P13671	-0.22741
59435	P0C214	P30485	-1.0367
59436	P0C214	Q9UHM6	-1.2418
59437	P0C214	Q9Y5Y3	-1.3693
59438	P0C214	Q96G46	-0.57131
59439	P0C214	Q6Q6R5	-0.31459
59440	P0C214	Q92667	-0.21612
59441	P0C214	Q5T2R2	-0.34735
59442	P0C214	Q9UKP4	-1.3248
59443	P0C214	Q5VWK5	-0.57664
59444	P0C214	Q8N8N7	-0.64245
59445	P0C214	Q9BWS9	-0.77617
59446	P0C214	P60321	-0.50073
59447	P0C214	A8MT19	-0.20189
59448	P0C214	P53007	-0.29098
59449	P0C214	P78426	-0.22896
59450	P0C214	Q9H773	-0.27115
59451	P0C214	Q9HCN8	-0.34835
59452	P0C214	Q9BRT6	-0.02845
59453	P0C214	P34059	-0.35343
59454	P0C214	Q8N149	-1.0787
59455	P0C214	Q96EC8	-0.91465
59456	P0C214	Q9H9S0	-0.22798
59457	P0C214	Q6IQ26	-0.35768
59458	P0C214	Q9UHC7	-0.22043
59459	P0C214	P60981	-0.37618
59460	P0C214	Q75715	-1.0163
59461	P0C214	Q9NP74	-0.55686
59462	P0C214	Q8N119	-1.3874
59463	P0C214	Q969X5	-0.10064
59464	P0C214	O15054	-0.43018
59465	P0C214	Q9NSV4	-0.21962
59466	P0C214	Q9HB40	-0.86006
59467	P0C214	P10620	-0.047553
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59469	P0C214	Q9NP80	-0.43743
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59474	P0C214	P00739	-0.96068
59475	P0C214	Q94823	-0.51471
59476	P0C214	Q5BJH2	-0.68883
59477	P0C214	Q01524	-0.84231
59478	P0C214	B2RXF0	-0.673
59479	P0C214	O15273	-0.22586
59480	P0C214	P06887	-1.0022
59481	P0C214	O95872	-0.39914
59482	P0C214	Q9H790	-0.2961
59483	P0C214	Q8TCT0	-0.57809
59484	P0C214	P0CL82	-0.47295
59485	P0C214	P41231	-0.80099
59486	P0C214	Q8N690	-0.88056
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59488	P0C214	Q9UHQ9	-0.74657
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59492	P0C214	P0C7M3	-0.50624
59493	P0C214	Q8N841	-0.18088
59494	P0C214	Q9UNU6	-0.85496
59495	P0C214	Q96D05	-0.98681
59496	P0C214	P08559	-0.17318
59497	P0C214	Q9UPT9	-0.38371
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59499	P0C214	Q8TDV2	-1.3693
59500	P0C214	P30085	-0.14308
59501	P0C214	Q95604	-1.0367
59502	P0C214	Q96L42	-0.99471
59503	P0C214	O75445	-0.84211
59504	P0C214	P59817	-0.22717
59505	P0C214	P13224	-0.56298
59506	P0C214	Q5T5U3	-0.24225
59507	P0C214	Q9UPU7	-0.85726
59508	P0C214	Q9NQX5	-0.98681

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59511	P0C214	P48509	-0.50029
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59514	P0C214	Q2TAL6	-0.86715
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59518	P0C214	Q6DHV5	-0.076898
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59520	P0C214	P18858	-0.20748
59521	P0C214	Q8WWQ8	-0.69581
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59529	P0C214	P10747	-0.24619
59530	P0C214	Q9BZS1	-0.33119
59531	P0C214	Q9BUN1	-0.91736
59532	P0C214	Q86UT5	-0.22766
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59535	P0C214	O43819	-0.24065
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59538	P0C214	Q9H993	-0.12578
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59541	P0C214	Q75069	-0.35508
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59546	P0C214	P48067	-1.0497
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59548	P0C214	Q13319	-0.47018
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59550	P0C214	Q86XG9	-0.20758
59551	P0C214	Q96PN7	-0.23838
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59553	P0C214	Q75077	-1.3161
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59557	P0C214	P20309	-0.65574
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59571	P0C214	Q9BV36	-0.31618
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59574	P0C214	Q9Y2C5	-1.1652
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59587	P0C214	Q8WWN8	-0.82081
59588	P0C214	Q99932	-0.39041
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59591	P0C214	Q9UHK6	-0.37907
59592	P0C214	Q5BIV9	-0.5764
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59596	P0C214	P63252	-1.4294
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59605	P0C214	Q15255	-0.44164
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59608	P0C214	Q96LU5	-0.48357
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59622	P0C214	Q2M3M2	-1.2381
59623	P0C214	O15541	-0.5018
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59626	P0C214	P47870	-0.68212
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59628	P0C214	Q9BYE9	-0.64053
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59631	P0C214	P61009	-0.68473
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59643	P0C214	Q15311	-0.28003
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59650	P0C214	Q6Q788	-0.4203
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59655	P0C214	J3KSC0	-1.1933
59656	P0C214	Q99961	-0.27345
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59673	P0C214	P58107	-0.18161
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59676	P0C214	Q9Y5K1	-0.47213
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59686	P0C214	P54760	-1.1767
59687	P0C214	Q8N3Y3	-0.78836
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59703	P0C214	Q96MC5	-0.25456
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59707	P0C214	O95407	-0.22673
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59739	P0C214	P80748	-1.0022
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59754	P0C214	Q14050	-0.75276
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59759	P0C214	Q15120	-0.22438
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59766	P0C214	P25103	-0.85877
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59785	P0C214	O60258	-0.87365
59786	P0C214	Q00488	-0.21299
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59788	P0C214	P08514	-0.40616
59789	P0C214	Q9H6R3	-0.66055
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59791	P0C214	P02728	-0.18353
59792	P0C214	Q15940	-0.70722
59793	P0C214	Q9BVA1	-0.14048
59794	P0C214	Q15072	-1.2998
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59798	P0C214	P53602	-0.37109
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59802	P0C214	Q8N7S6	-0.98681
59803	P0C214	Q969Q1	-0.47116
59804	P0C214	P01722	-1.0022
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59807	P0C214	O15342	-0.71604
59808	P0C214	O75197	-0.26815
59809	P0C214	O43683	-0.22741
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59816	P0C214	P47755	-0.36627
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59820	P0C214	Q96HL8	-0.3813
59821	P0C214	O43927	-0.70509
59822	P0C214	Q6P2N6	-1.0708
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59824	P0C214	Q9BXJ3	-0.91736
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59831	P0C214	Q8IX30	-0.22752
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59837	P0C214	P16581	-0.40101
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59869	P0C214	P32245	-0.64659
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59874	P0C214	Q9Y442	-0.98681
59875	P0C214	Q93091	-0.70603
59876	P0C214	P07357	-1.3231
59877	P0C214	Q9H069	-0.22739
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59879	P0C214	Q8IZU2	-0.22774
59880	P0C214	P84996	-0.84309
59881	P0C214	P20132	-0.15613
59882	P0C214	P80362	-1.0022
59883	P0C214	Q9BZW2	-1.132
59884	P0C214	P01857	-0.4362
59885	P0C214	P45974	-0.31364
59886	P0C214	O00453	-0.66991
59887	P0C214	Q02509	-0.65699
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59893	P0C214	O94887	-0.25385
59894	P0C214	P54578	-0.40089
59895	P0C214	Q9Y463	-0.26483
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59910	P0C214	P49184	-0.36519
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59914	P0C214	P10586	-0.85103
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59918	P0C214	Q8TE23	-1.2954
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59946	P0C214	Q9UD57	-0.22732
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60185	P0C214	Q495A1	-0.49133
60186	P0C214	Q9NPH5	-0.68089
60187	P0C214	Q9H223	-0.23386
60188	P0C214	Q15349	-0.61109
60189	P0C214	Q9Y2E6	-0.29901
60190	P0C214	P23467	-0.66822
60191	P0C214	Q9H340	-1.2952
60192	P0C214	Q8TAC2	-0.7643

60193	P0C214	Q9BWV3	-0.56271
60194	P0C214	Q99570	-0.33325
60195	P0C214	Q06418	-0.69579
60196	P0C214	Q6PI97	-0.65379
60197	P0C214	Q5SQ13	-0.15789
60198	P0C214	P33681	-0.33566
60199	P0C214	A8MUP2	-0.23354
60200	P0C214	P78412	-0.22977
60201	P0C214	Q9P2S2	-1.0028
60202	P0C214	Q86TI0	-0.95664
60203	P0C214	P30450	-0.91186
60204	P0C214	Q9H221	-0.73598
60205	P0C214	Q16206	-0.85306
60206	P0C214	Q7Z5Y7	-0.10477
60207	P0C214	Q9BTE0	-0.32661
60208	P0C214	P55259	-1.0121
60209	P0C214	Q6IC98	-0.69814
60210	P0C214	Q96JW4	-1.1971
60211	P0C214	Q6P9H5	-0.96471
60212	P0C214	Q6ZSI9	-1.0212
60213	P0C214	Q8WXI7	-1.4815
60214	P0C214	Q86TM3	-0.55253
60215	P0C214	Q15904	-0.99515
60216	P0C214	Q2M385	-0.98681
60217	P0C214	Q14439	-1.5077
60218	P0C214	Q07065	-0.76152
60219	P0C214	P0CB48	-0.2113
60220	P0C214	P58215	-0.43526
60221	P0C214	P52954	-0.23118
60222	P0C214	Q29980	-0.8641
60223	P0C214	P06241	-0.27863
60224	P0C214	Q8IY82	-0.46317
60225	P0C214	Q09013	-0.27531
60226	P0C214	Q8IU99	-1.1911
60227	P0C214	O00182	-0.88769
60228	P0C214	Q9BQS8	-0.44943
60229	P0C214	P26045	-0.22759
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60237	P0C214	P04440	-0.73529
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60239	P0C214	Q8TDQ0	-0.98681
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60243	P0C214	Q9NS82	-1.0834
60244	P0C214	Q9UFG5	-0.928
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60253	P0C214	Q99593	-0.41451
60254	P0C214	Q9BYV2	-0.87653
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60256	P0C214	Q96J01	-0.22713
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60263	P0C214	Q6PML9	-0.61734
60264	P0C214	Q7L7L0	-0.85588
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60277	P0C214	P07307	-0.52871
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60279	P0C214	Q96RU8	-0.22884
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60282	P0C214	Q13596	-0.22763
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60284	P0C214	Q9UJV3	-0.31914
60285	P0C214	Q8NGI0	-1.2952
60286	P0C214	Q6NZ63	-0.98681
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60291	P0C214	Q75121	-1.0708
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60414	P0C214	Q14202	-0.45952
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60570	P0C214	Q8NAA4	-0.22801
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60578	P0C214	Q43670	-0.20317
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60588	P0C214	Q5DX21	-1.215
60589	P0C214	Q86UU5	-0.40508
60590	P0C214	O00330	-0.16512
60591	P0C214	O60393	-0.22394
60592	P0C214	Q9NXL9	-0.56442
60593	P0C214	Q14939	-0.21709
60594	P0C214	O00585	-0.50656
60595	P0C214	Q95861	-0.22233
60596	P0C214	Q8WUJ3	-0.21791
60597	P0C214	Q96NJ5	-0.19302
60598	P0C214	Q6N069	-0.21932
60599	P0C214	P41273	-0.93657
60600	P0C214	Q5SRR4	-0.91736
60601	P0C214	Q8N6M6	-0.65549
60602	P0C214	Q13438	-0.18023
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60605	P0C214	Q7KYR7	-1.0204
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60607	P0C214	Q9NZG7	-1.0853
60608	P0C214	O00398	-1.3112
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60615	P0C214	Q8WWP7	-1.1483
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60617	P0C214	Q9UQ52	-0.58825
60618	P0C214	Q9HAS0	-0.31184
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60620	P0C214	P20160	-0.791
60621	P0C214	O14926	-0.55168
60622	P0C214	Q9NRJ3	-0.90487
60623	P0C214	P10114	-0.37743
60624	P0C214	Q96A05	-0.36222
60625	P0C214	Q95863	-0.22161
60626	P0C214	P86791	-0.64424
60627	P0C214	Q86SH4	-0.91736
60628	P0C214	P31358	-0.64207
60629	P0C214	Q69YZ2	-0.98681
60630	P0C214	Q9NVM6	-0.76853
60631	P0C214	Q08AF3	-0.59023
60632	P0C214	Q9Y6A1	-0.93198
60633	P0C214	O75888	-0.3812
60634	P0C214	Q01432	-0.10237
60635	P0C214	P54219	-0.60814
60636	P0C214	Q86UX2	-0.76087
60637	P0C214	Q5SV17	-0.98681
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60639	P0C214	Q63HR2	-0.22741
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60643	P0C214	P05161	-0.28883
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60645	P0C214	P08603	-0.87028
60646	P0C214	Q14679	-0.41566
60647	P0C214	Q9NY25	-0.95567
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60651	P0C214	Q92974	-0.22747
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60654	P0C214	Q8N9I0	-0.80386
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60656	P0C214	O14949	-0.17866
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60659	P0C214	Q8WXX7	-0.18353
60660	P0C214	P54756	-0.97761
60661	P0C214	P0DJD0	-0.46678
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60663	P0C214	Q9BT76	-1.0733
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60667	P0C214	Q6ZTR7	-0.049286
60668	P0C214	Q17R60	-1.0446
60669	P0C214	Q86WI1	-0.68218
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60672	P0C214	Q8TD43	-0.88719
60673	P0C214	P80404	-0.19671
60674	P0C214	Q9NSA0	-0.85146
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60676	P0C214	Q08170	-0.228
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60678	P0C214	Q86XS8	-0.46195
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60680	P0C214	O14782	-0.35344
60681	P0C214	Q43301	-0.79608
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60683	P0C214	P09017	-0.26539
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60685	P0C214	P01710	-1.0022
60686	P0C214	Q16512	-0.22055
60687	P0C214	Q92932	-0.95619
60688	P0C214	Q9Y3Q7	-1.4133
60689	P0C214	Q96D71	-0.21409
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60694	P0C214	Q8TAT2	-0.89526
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60698	P0C214	Q96N64	-0.21554
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60701	P0C214	Q9P2E9	-0.67696
60702	P0C214	P43004	-0.63188
60703	P0C214	Q86TZ1	-0.22738
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60706	P0C214	O75343	-0.73008
60707	P0C214	Q13530	-0.89161
60708	P0C214	P51812	-0.22141
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60710	P0C214	Q56NI9	-0.30248
60711	P0C214	A6NK59	-0.5331
60712	P0C214	O15232	-0.51485
60713	P0C214	A6NLP5	-0.2106
60714	P0C214	Q96KN4	-0.074371
60715	P0C214	Q96RP3	-0.77446
60716	P0C214	Q8N8J0	-0.41582
60717	P0C214	P48051	-0.51229
60718	P0C214	O95436	-0.95034
60719	P0C214	P12645	-0.75736
60720	P0C214	Q31612	-1.0367
60721	P0C214	O14717	-0.1531
60722	P0C214	Q9NW82	-0.2274
60723	P0C214	Q13362	-0.058908
60724	P0C214	P48048	-1.373

60725	P0C214	O94955	-0.37922
60726	P0C214	Q5VTY9	-1.5115
60727	P0C214	Q08830	-1.0607
60728	P0C214	Q9NUG4	-0.18353
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60731	P0C214	P30508	-1.0938
60732	P0C214	P12544	-0.45952
60733	P0C214	Q6IMI6	-0.30984
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60735	P0C214	P00568	-0.3946
60736	P0C214	Q8WUA4	-0.22734
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60739	P0C214	Q09472	-0.14113
60740	P0C214	Q9H5U6	-0.43498
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60743	P0C214	P56750	-0.76002
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60745	P0C214	P54132	-0.22472
60746	P0C214	O00168	-1.2533
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60751	P0C214	P35555	-0.69508
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60753	P0C214	Q9BXS4	-0.77134
60754	P0C214	Q96BQ1	-0.78969
60755	P0C214	Q86W26	-0.79608
60756	P0C214	P00740	-1.1023
60757	P0C214	P49810	-0.2186
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60786	P0C214	P50458	-0.22741
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60790	P0C214	Q99569	-0.2302
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60795	P0C214	P40818	-0.33896
60796	P0C214	Q96NT5	-0.57341
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60799	P0C214	Q9BXM8	-0.18353
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60818	P0C214	Q9Y5U4	-0.34595
60819	P0C214	Q6IQ20	-0.55661
60820	P0C214	Q9ULL5	-0.51359
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60822	P0C214	P06850	-0.45323
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60848	P0C214	Q15477	-0.30255
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60861	P0C214	Q8TE67	-0.22741
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60874	P0C214	Q8IV42	-0.66369
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60980	P0C214	Q8N4G2	-0.61517
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60987	P0C214	Q9BYJ4	-0.47551
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60992	P0C214	Q15492	-0.22907
60993	P0C214	Q8TDY8	-1.0708
60994	P0C214	Q8NB14	-0.68518
60995	P0C214	P51608	-0.13412
60996	P0C214	Q9BUU2	-0.33624
60997	P0C214	P11836	-0.95759
60998	P0C214	P48146	-0.78617
60999	P0C214	Q9NWD8	-0.98681
61000	P0C214	Q9Y5M8	-1.0289
61001	P0C214	O95248	-0.94644
61002	P0C214	Q14494	-0.27444
61003	P0C214	Q6ZQQ2	-0.98681
61004	P0C214	Q9NPB1	-0.36032
61005	P0C214	Q8NCW0	-0.94647
61006	P0C214	Q8NGC4	-1.2952
61007	P0C214	Q96LA6	-1.0708
61008	P0C214	P08183	-0.4488
61009	P0C214	Q8N2U9	-0.98681
61010	P0C214	Q9UH03	-0.2204
61011	P0C214	Q8IWL1	-0.93581
61012	P0C214	Q7Z4S9	-0.22729
61013	P0C214	O43448	-0.9823
61014	P0C214	P59091	-0.17614
61015	P0C214	Q6PP77	-1.0708
61016	P0C214	Q16649	-0.14438
61017	P0C214	Q6IBW4	-0.33021
61018	P0C214	Q8NHW6	-0.94096
61019	P0C214	Q9Y5T4	-0.78305
61020	P0C214	P85299	-0.29907
61021	P0C214	P01620	-1.0022
61022	P0C214	Q5JRX3	-0.17953
61023	P0C214	A8MV57	-0.37918
61024	P0C214	O75838	-0.43585
61025	P0C214	A6NMY6	-0.76787
61026	P0C214	P48664	-1.1602
61027	P0C214	P11926	-0.13907
61028	P0C214	Q9NYP8	-0.33522



61029	P0C214	Q8IZ41	-0.7679
61030	P0C214	P02788	-0.23524
61031	P0C214	P29460	-0.2505
61032	P0C214	P0C851	-0.98681
61033	P0C214	Q9HBE5	-0.92414
61034	P0C214	Q96KM6	-0.22688
61035	P0C214	Q13224	-0.29503
61036	P0C214	Q96PB7	-0.80164
61037	P0C214	Q9H7B4	-0.22689
61038	P0C214	Q9NUJ7	-0.56823
61039	P0C214	P11137	-0.11891
61040	P0C214	Q9ULC0	-1.511
61041	P0C214	Q9Y2Q0	-0.5044
61042	P0C214	Q9C091	-0.98681
61043	P0C214	Q9NSN8	-0.22525
61044	P0C214	Q99626	-0.24241
61045	P0C214	P69849	-0.95165
61046	P0C214	Q8N910	-0.075781
61047	P0C214	I1YAP6	-0.22725
61048	P0C214	Q9UBC3	-0.22152
61049	P0C214	P32322	-0.24782
61050	P0C214	Q9Y243	-0.31042
61051	P0C214	P14415	-0.42036
61052	P0C214	Q8NGC7	-1.2952
61053	P0C214	Q68D86	-0.19459
61054	P0C214	O75554	-0.13967
61055	P0C214	A6NIV6	-0.31075
61056	P0C214	Q9Y450	-0.75118
61057	P0C214	P21709	-1.1086
61058	P0C214	P0DJJ8	-1.1989
61059	P0C214	Q9BX95	-0.57675
61060	P0C214	Q1MX18	-0.4695
61061	P0C214	Q96E40	-0.14648
61062	P0C214	Q8WWH4	-0.6769
61063	P0C214	Q9NPB0	-0.92907
61064	P0C214	O43719	-0.21164
61065	P0C214	Q8NI99	-1.3341
61066	P0C214	Q9HCJ6	-0.8716
61067	P0C214	Q5T1M5	-0.6999
61068	P0C214	Q9P2Z0	-0.55088
61069	P0C214	Q96MM3	-0.22759
61070	P0C214	Q9H3H5	-0.74169
61071	P0C214	P53816	-0.18852
61072	P0C214	Q6ZR08	-0.7095
61073	P0C214	Q9HCU4	-1.0892
61074	P0C214	Q96EN8	-0.17185
61075	P0C214	Q9NQ86	-0.59083
61076	P0C214	Q8WTR8	-0.91736
61077	P0C214	Q6P4H8	-0.98681
61078	P0C214	Q9UBS5	-0.67453
61079	P0C214	Q15043	-0.99441
61080	P0C214	Q6YHK3	-0.79464
61081	P0C214	Q8N0W5	-0.11721
61082	P0C214	Q96JK2	-0.22741
61083	P0C214	Q8TC29	-0.44873
61084	P0C214	Q8IZD6	-1.1214
61085	P0C214	Q8NH04	-1.2952
61086	P0C214	Q96JB8	-0.22447
61087	P0C214	Q92535	-0.99497
61088	P0C214	P61296	-0.22965
61089	P0C214	Q8N9R6	-0.45193
61090	P0C214	Q8NEP7	-0.21429
61091	P0C214	Q9NP84	-0.6361
61092	P0C214	P53985	-0.53097
61093	P0C214	Q9NPR2	-1.1497
61094	P0C214	Q8N1S5	-1.0836
61095	P0C214	P57789	-1.3216
61096	P0C214	P55808	-1.0271
61097	P0C214	Q95932	-0.34466
61098	P0C214	Q9H4H8	-0.26726
61099	P0C214	Q9NRY4	-0.24885
61100	P0C214	Q15084	-0.27935
61101	P0C214	Q9ULV4	-0.61794
61102	P0C214	Q2VWP7	-1.1925
61103	P0C214	O95206	-1.158
61104	P0C214	Q9ULC3	-0.98529

61105	P0C214	Q96NW7	-0.23466
61106	P0C214	Q9Y5Z9	-0.25813
61107	P0C214	Q7Z494	-0.2271
61108	P0C214	P0CE71	-0.43585
61109	P0C214	Q8N2K1	-0.89756
61110	P0C214	P20783	-0.53475
61111	P0C214	P57796	-0.59184
61112	P0C214	P11021	-0.21822
61113	P0C214	Q16671	-1.4543
61114	P0C214	Q8NEA5	-0.98681
61115	P0C214	Q9NWQ9	-0.32561
61116	P0C214	P11912	-0.96561
61117	P0C214	Q14393	-0.26086
61118	P0C214	Q86TB3	-0.77619
61119	P0C214	A8K0R7	-0.71534
61120	P0C214	Q0VAA5	-0.68628
61121	P0C214	Q9Y3T6	-0.8081
61122	P0C214	Q96QF7	-0.065644
61123	P0C214	Q8IUUK5	-0.77852
61124	P0C214	O00571	-0.53402
61125	P0C214	P25092	-0.94632
61126	P0C214	Q2KHT4	-0.97981
61127	P0C214	P16615	-0.895
61128	P0C214	Q05193	-0.30874
61129	P0C214	P01562	-0.70371
61130	P0C214	P58512	-0.33805
61131	P0C214	P24588	-0.18146
61132	P0C214	P0DKB6	-0.98681
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61136	P0C214	Q9NZJ6	-0.14403
61137	P0C214	P51811	-0.46844
61138	P0C214	Q9NS87	-0.25829
61139	P0C214	P04908	-0.85588
61140	P0C214	Q9Y561	-0.65839
61141	P0C214	Q5VYJ5	-0.98681
61142	P0C214	Q9C040	-0.22741
61143	P0C214	Q8WVV5	-0.91753
61144	P0C214	Q8WVM8	-0.21484
61145	P0C214	Q8N4H0	-0.55832
61146	P0C214	Q9UPR6	-0.66238
61147	P0C214	P57737	-0.35025
61148	P0C214	Q9P2N4	-1.3339
61149	P0C214	Q94923	-0.39261
61150	P0C214	Q9NU53	-0.98681
61151	P0C214	O14815	-0.94915
61152	P0C214	Q96FC7	-0.21259
61153	P0C214	P05067	-0.22314
61154	P0C214	Q9Y247	-0.072295
61155	P0C214	Q9P2T1	-0.14099
61156	P0C214	P30481	-1.0367
61157	P0C214	Q96ES6	-1.0455
61158	P0C214	P10767	-0.92773
61159	P0C214	Q8N8W4	-0.42901
61160	P0C214	Q5T8I3	-0.23333
61161	P0C214	Q99470	-0.92604
61162	P0C214	P23434	-0.1623
61163	P0C214	O43169	-0.73973
61164	P0C214	Q9NQZ2	-0.20642
61165	P0C214	Q9HBI6	-0.97546
61166	P0C214	Q16663	-1.0924
61167	P0C214	Q5VV41	-0.23084
61168	P0C214	Q01538	-0.25482
61169	P0C214	P48431	-0.31436
61170	P0C214	Q5VYP0	-0.98681
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61172	P0C214	O95388	-0.90658
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61174	P0C214	P08833	-0.84413
61175	P0C214	P31930	-0.36097
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61179	P0C214	Q504Y3	-0.50512
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61181	P0C214	Q96HD9	-0.3288
61182	P0C214	Q9Y5I2	-1.6431
61183	P0C214	Q13724	-0.77669
61184	P0C214	P56704	-0.23727
61185	P0C214	E5RG02	-0.97208
61186	P0C214	Q86SG7	-0.80382
61187	P0C214	Q5TC82	-0.2274
61188	P0C214	O76024	-0.54635
61189	P0C214	O00481	-0.38398
61190	P0C214	P28827	-0.57544
61191	P0C214	Q6ZT89	-0.80565
61192	P0C214	A6NIK2	-0.23874
61193	P0C214	P15516	-0.9112
61194	P0C214	A6NI56	-0.13422
61195	P0C214	O95466	-0.22059
61196	P0C214	Q7Z7F0	-0.040079
61197	P0C214	Q8WYA0	-0.62263
61198	P0C214	Q92574	-0.22714
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61200	P0C214	Q8TF21	-0.22746
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61202	P0C214	Q9Y4H4	-0.17459
61203	P0C214	Q9HA38	-0.060735
61204	P0C214	Q92520	-0.86004
61205	P0C214	O00443	-0.32796
61206	P0C214	Q9UBX5	-0.43169
61207	P0C214	P49763	-0.88714
61208	P0C214	O00483	-0.035368
61209	P0C214	Q9BZP3	-0.18353
61210	P0C214	Q9Y5E5	-1.0345
61211	P0C214	Q8NBA8	-0.040189
61212	P0C214	O95267	-0.54763
61213	P0C214	Q68BL7	-0.91902
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61215	P0C214	P01040	-0.19078
61216	P0C214	O60811	-0.18615
61217	P0C214	Q9UBD6	-0.86926
61218	P0C214	Q9P0Z9	-0.5605
61219	P0C214	Q9HCP6	-0.85664
61220	P0C214	O14492	-0.38835
61221	P0C214	Q96GL9	-0.98681
61222	P0C214	P15882	-0.65361
61223	P0C214	Q96IK0	-1.0528
61224	P0C214	Q9NY37	-1.1156
61225	P0C214	Q69YW0	-0.40716
61226	P0C214	A5PLL1	-0.22742
61227	P0C214	O94989	-0.47814
61228	P0C214	P59541	-1.2886
61229	P0C214	Q96A08	-0.7893
61230	P0C214	P12830	-0.49054
61231	P0C214	Q8NFI6	-1.3597
61232	P0C214	Q9NS84	-0.49233
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61236	P0C214	O95371	-1.2605
61237	P0C214	Q8N998	-0.19064
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61239	P0C214	Q9Y284	-0.98681
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61242	P0C214	P10645	-0.79962
61243	P0C214	P14209	-1.1723
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61247	P0C214	Q9H210	-1.2952
61248	P0C214	B1ATL7	-0.10017
61249	P0C214	Q7L1S5	-0.80135
61250	P0C214	Q96PG8	-0.10825
61251	P0C214	Q8WUU4	-0.22305
61252	P0C214	Q9NV29	-0.68883
61253	P0C214	P49642	-0.22372
61254	P0C214	Q8IYT4	-0.68331
61255	P0C214	Q09019	-0.22769
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61257	P0C214	Q04760	-0.096786
61258	P0C214	Q9Y5F8	-1.2424
61259	P0C214	Q96N11	-0.20575
61260	P0C214	P58012	-0.41532
61261	P0C214	P48723	-0.76965
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61263	P0C214	Q15435	-0.22741
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61266	P0C214	P45844	-0.48981
61267	P0C214	P09683	-0.78136
61268	P0C214	Q15814	-0.16931
61269	P0C214	Q9NZT1	-0.60146
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61272	P0C214	Q6ZTA4	-0.5412
61273	P0C214	Q8N4N8	-0.44859
61274	P0C214	Q96JA1	-0.98681
61275	P0C214	P51674	-0.90319
61276	P0C214	O00468	-0.46974
61277	P0C214	Q9UHC6	-0.92926
61278	P0C214	Q7Z4W2	-0.82212
61279	P0C214	P31512	-0.99723
61280	P0C214	P49069	-0.39363
61281	P0C214	O15212	-0.29975
61282	P0C214	Q96GJ1	-0.086424
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61285	P0C214	Q8NC56	-0.39854
61286	P0C214	Q9Y2H6	-0.4426
61287	P0C214	Q8NG95	-1.2952
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61290	P0C214	Q86YR7	-0.79655
61291	P0C214	Q7Z7M1	-1.3853
61292	P0C214	Q9BWL3	-0.79213
61293	P0C214	P30622	-0.22674
61294	P0C214	P35030	-0.88528
61295	P0C214	Q96H55	-0.36174
61296	P0C214	P43003	-0.66272
61297	P0C214	Q09328	-0.70415
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61301	P0C214	Q15078	-0.14054
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61303	P0C214	Q9H1J7	-0.86562
61304	P0C214	Q16555	-0.20652
61305	P0C214	Q96PY0	-0.4119
61306	P0C214	Q08623	-0.3112
61307	P0C214	Q99946	-0.98316
61308	P0C214	Q9HB63	-0.93595
61309	P0C214	P59543	-1.2886
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61311	P0C214	Q4FZB7	-0.21357
61312	P0C214	O15270	-0.52959
61313	P0C214	P57087	-0.49778
61314	P0C214	Q9Y2G3	-0.63531
61315	P0C214	A6NGR9	-0.18194
61316	P0C214	Q15238	-0.30824
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61318	P0C214	P01624	-1.0022
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61320	P0C214	P46439	-0.25923
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61326	P0C214	P01871	-1.4762
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61328	P0C214	Q969Z3	-0.37521
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61331	P0C214	P0C7I0	-0.3275
61332	P0C214	P20340	-0.2631

61333	P0C214	O43567	-0.66404
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61336	P0C214	Q92824	-0.92917
61337	P0C214	Q99715	-1.1176
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61339	P0C214	Q02790	-0.39387
61340	P0C214	Q8N357	-0.32723
61341	P0C214	Q8NBD8	-0.98681
61342	P0C214	P22532	-0.2479
61343	P0C214	Q9HC97	-1.4957
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61346	P0C214	P17655	-0.24973
61347	P0C214	O60494	-0.22742
61348	P0C214	Q9Y234	-0.22492
61349	P0C214	O14986	-0.20389
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61352	P0C214	Q14562	-0.20326
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61354	P0C214	Q9UL54	-0.67512
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61358	P0C214	Q96KP6	-0.44024
61359	P0C214	Q6UWF6	-0.91736
61360	P0C214	P52799	-0.9526
61361	P0C214	P13798	-0.37169
61362	P0C214	Q8NG08	-0.64553
61363	P0C214	Q8N9W6	-0.38145
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61369	P0C214	P01233	-0.68516
61370	P0C214	A0AUK8	-0.023915
61371	P0C214	Q96FV3	-0.88648
61372	P0C214	Q14581	-1.2952
61373	P0C214	Q7Z6K3	-0.39912
61374	P0C214	Q8N8A8	-0.36696
61375	P0C214	Q4KMP7	-1.1251
61376	P0C214	O95231	-0.2274
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61378	P0C214	Q9Y680	-0.36406
61379	P0C214	P12318	-1.0451
61380	P0C214	Q3MJ16	-0.24757
61381	P0C214	Q6UXZ0	-0.98681
61382	P0C214	P10145	-0.52878
61383	P0C214	Q63ZY6	-0.33624
61384	P0C214	Q86VQ6	-0.44006
61385	P0C214	Q9H0D2	-0.34448
61386	P0C214	Q8TDG2	-0.23577
61387	P0C214	P22102	-0.26066
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61389	P0C214	Q8NHB8	-1.2952
61390	P0C214	A0PK00	-0.68883
61391	P0C214	Q86UD5	-0.9312
61392	P0C214	Q5TA81	-0.38015
61393	P0C214	Q96T25	-0.42813
61394	P0C214	P01782	-1.0022
61395	P0C214	Q96DZ9	-0.94069
61396	P0C214	O00253	-0.81334
61397	P0C214	Q9UPR0	-0.55141
61398	P0C214	P13693	-0.13386
61399	P0C214	Q9NZL6	-0.36825
61400	P0C214	Q5TF39	-1.1761
61401	P0C214	Q6URH7	-0.39979
61402	P0C214	Q9H611	-0.47971
61403	P0C214	Q9UEW3	-1.0808
61404	P0C214	O60774	-0.9782
61405	P0C214	Q96PX1	-0.50512
61406	P0C214	Q7Z6M3	-1.1528
61407	P0C214	P60328	-0.80609
61408	P0C214	Q8N309	-0.20759

61409	P0C214	A4D1F6	-0.55184
61410	P0C214	A6NGN9	-0.91736
61411	P0C214	O00358	-0.41532
61412	P0C214	A6NDQ2	-0.71534
61413	P0C214	Q15744	-0.22736
61414	P0C214	Q53H54	-0.28525
61415	P0C214	A6NJT0	-0.18963
61416	P0C214	P62341	-0.42124
61417	P0C214	Q9H195	-0.95999
61418	P0C214	Q96E93	-1.0823
61419	P0C214	Q9H2C2	-0.94876
61420	P0C214	Q9UHE8	-1.0911
61421	P0C214	Q96A28	-0.992
61422	P0C214	Q5VWP2	-0.17957
61423	P0C214	Q8WTV0	-0.42779
61424	P0C214	Q9BY78	-0.92274
61425	P0C214	P05112	-0.21121
61426	P0C214	Q9H4Z2	-0.72578
61427	P0C214	P08247	-0.66851
61428	P0C214	P54819	-0.45802
61429	P0C214	Q52WX2	-1.1637
61430	P0C214	Q8NGF4	-1.2952
61431	P0C214	Q9UKU7	-0.25861
61432	P0C214	Q01362	-0.95657
61433	P0C214	Q96D31	-0.61773
61434	P0C214	P15085	-1.2394
61435	P0C214	Q9UK05	-0.22741
61436	P0C214	B1ANS9	-0.22748
61437	P0C214	Q9H4G4	-0.78213
61438	P0C214	Q8TDN2	-0.98724
61439	P0C214	Q8N6C8	-1.098
61440	P0C214	P51160	-0.97145
61441	P0C214	Q9BPX7	-0.07966
61442	P0C214	Q5SXM8	-0.27587
61443	P0C214	P13584	-0.59413
61444	P0C214	Q13621	-0.97983
61445	P0C214	Q06278	-0.46925
61446	P0C214	Q9BY08	-0.95678
61447	P0C214	Q9H6R7	-0.054721
61448	P0C214	Q5VUE5	-0.085121
61449	P0C214	Q8NGG8	-1.2952
61450	P0C214	Q9UF11	-1.0116
61451	P0C214	P0C854	-0.91736
61452	P0C214	Q9NPF8	-0.75279
61453	P0C214	Q9BYT1	-1.0171
61454	P0C214	Q9NVT9	-0.18621
61455	P0C214	A6NHA9	-1.2952
61456	P0C214	P12524	-0.2274
61457	P0C214	Q9P0U3	-0.14662
61458	P0C214	A8K010	-0.27376
61459	P0C214	P0C7P0	-0.34647
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61461	P0C214	Q6JVE5	-0.99317
61462	P0C214	Q8IZF4	-1.3853
61463	P0C214	O60282	-0.50269
61464	P0C214	P41238	-0.080741
61465	P0C214	Q8NGG2	-1.2952
61466	P0C214	Q9NRP7	-0.459
61467	P0C214	A8MYP8	-0.1072
61468	P0C214	Q495C1	-0.50512
61469	P0C214	O75324	-0.72701
61470	P0C214	Q9BQ49	-0.98681
61471	P0C214	Q5JU69	-0.9465
61472	P0C214	P28906	-0.53924
61473	P0C214	Q9Y2X7	-0.22741
61474	P0C214	P30511	-1.0692
61475	P0C214	Q8WU76	-0.15366
61476	P0C214	P0CF51	-0.98681
61477	P0C214	Q9H7M9	-0.98681
61478	P0C214	Q6E0U4	-0.90112
61479	P0C214	Q969H4	-0.22739
61480	P0C214	Q9Y5W5	-1.1873
61481	P0C214	P54753	-0.94833
61482	P0C214	P07498	-0.88617
61483	P0C214	Q8N4L2	-0.98597
61484	P0C214	Q6DN14	-0.94481

61485	P0C214	Q8IW93	-0.83691
61486	P0C214	Q9BTU6	-0.36875
61487	P0C214	Q6ZST8	-0.58618
61488	P0C214	Q75695	-0.49572
61489	P0C214	Q96QD8	-1.1785
61490	P0C214	C4AMC7	-0.63212
61491	P0C214	O43623	-0.20827
61492	P0C214	Q9H208	-1.2952
61493	P0C214	Q8IXU6	-0.74758
61494	P0C214	Q9Y330	-0.22177
61495	P0C214	Q49AS3	-0.30267
61496	P0C214	Q92833	-0.38969
61497	P0C214	Q00889	-0.82513
61498	P0C214	P21397	-0.55815
61499	P0C214	Q14520	-1.4857
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61502	P0C214	P05181	-0.34882
61503	P0C214	Q2I0M5	-1.012
61504	P0C214	O77932	-0.8455
61505	P0C214	Q8NEZ3	-0.39358
61506	P0C214	P05186	-0.96399
61507	P0C214	Q01415	-0.61475
61508	P0C214	P20366	-0.76549
61509	P0C214	O43602	-0.37035
61510	P0C214	Q8NH10	-1.2952
61511	P0C214	P02458	-0.58141
61512	P0C214	A8MT69	-0.38398
61513	P0C214	Q6TCH7	-0.79982
61514	P0C214	P14770	-1.0279
61515	P0C214	A8MYV0	-0.55123
61516	P0C214	P14091	-0.64557
61517	P0C214	Q9BZI1	-0.22922
61518	P0C214	Q5JUK3	-1.3754
61519	P0C214	Q8WWN9	-0.55057
61520	P0C214	Q9NRY6	-0.625
61521	P0C214	O60479	-0.24015
61522	P0C214	P01611	-1.0022
61523	P0C214	Q96CN7	-0.46967
61524	P0C214	P57052	-0.66602
61525	P0C214	Q9P232	-0.66331
61526	P0C214	Q13595	-0.45681
61527	P0C214	Q5SRD0	-0.4155
61528	P0C214	O15409	-0.41532
61529	P0C214	Q4ZJI4	-1.0337
61530	P0C214	P0C1S8	-0.49562
61531	P0C214	O75052	-0.22327
61532	P0C214	P49915	-0.21637
61533	P0C214	P26006	-0.44221
61534	P0C214	Q75342	-0.60411
61535	P0C214	Q8TBY0	-0.83638
61536	P0C214	Q6UWV6	-0.71366
61537	P0C214	Q9UBD9	-0.27793
61538	P0C214	Q2L4Q9	-1.4261
61539	P0C214	Q6DJT9	-0.13752
61540	P0C214	Q8N3P4	-0.50512
61541	P0C214	Q01954	-0.22162
61542	P0C214	Q9P212	-0.22741
61543	P0C214	P23469	-0.23077
61544	P0C214	Q9HDB5	-1.1271
61545	P0C214	A8K0S8	-0.2194
61546	P0C214	Q96K49	-0.98681
61547	P0C214	Q8NDB2	-0.38333
61548	P0C214	P51449	-0.60165
61549	P0C214	A0PJY2	-0.26809
61550	P0C214	Q12887	-0.56792
61551	P0C214	P00966	-0.098335
61552	P0C214	Q9UBJ2	-0.40671
61553	P0C214	Q14828	-0.64242
61554	P0C214	Q5VZ52	-0.14328
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61556	P0C214	Q9UK97	-0.34682
61557	P0C214	Q5T5N4	-0.041902
61558	P0C214	P46019	-0.26097
61559	P0C214	Q96GC9	-0.45655
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61561	P0C214	P26718	-0.60099
61562	P0C214	P14920	-0.16305
61563	P0C214	O14763	-0.35987
61564	P0C214	Q9HCU0	-0.66737
61565	P0C214	Q15642	-0.71683
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61568	P0C214	P43220	-0.66043
61569	P0C214	O60256	-0.34413
61570	P0C214	O60894	-0.37171
61571	P0C214	P30556	-0.56654
61572	P0C214	Q7Z3D4	-0.96348
61573	P0C214	Q13145	-0.54858
61574	P0C214	Q9HC73	-1.511
61575	P0C214	Q5PT55	-1.1427
61576	P0C214	P27449	-0.3292
61577	P0C214	Q4V326	-0.60816
61578	P0C214	Q8NGU4	-1.2952
61579	P0C214	Q9GZP8	-0.10017
61580	P0C214	Q53RY4	-0.98681
61581	P0C214	Q14114	-0.87991
61582	P0C214	Q8NET1	-0.88056
61583	P0C214	P55899	-1.0102
61584	P0C214	Q9H165	-0.22676
61585	P0C214	Q8NGA5	-1.1265
61586	P0C214	Q8WU17	-0.53035
61587	P0C214	P02810	-0.28403
61588	P0C214	Q04671	-0.33357
61589	P0C214	P0C0S8	-0.85329
61590	P0C214	Q9BZ29	-0.22637
61591	P0C214	Q9UKW4	-0.22741
61592	P0C214	Q8N1C3	-0.9082
61593	P0C214	Q8NCR0	-0.82935
61594	P0C214	P29475	-0.22818
61595	P0C214	Q75367	-0.81878
61596	P0C214	Q9H061	-0.63373
61597	P0C214	Q5U5Q3	-0.22737
61598	P0C214	Q8N8Y2	-0.22725
61599	P0C214	Q03001	-0.229
61600	P0C214	Q75379	-0.74904
61601	P0C214	O14981	-0.4583
61602	P0C214	P10636	-0.087915
61603	P0C214	Q6UX98	-1.0453
61604	P0C214	C9JPN9	-0.68518
61605	P0C214	Q70EL3	-0.35048
61606	P0C214	Q8TCT9	-0.59681
61607	P0C214	Q92928	-0.88032
61608	P0C214	Q96G27	-0.2086
61609	P0C214	P33176	-0.25223
61610	P0C214	Q3ZCQ3	-0.98681
61611	P0C214	Q8NFQ6	-1.166
61612	P0C214	Q95622	-0.7416
61613	P0C214	Q9H939	-0.22083
61614	P0C214	P17936	-0.22758
61615	P0C214	Q8WUQ7	-0.092939
61616	P0C214	P61587	-1.0848
61617	P0C214	Q9NS67	-1.3693
61618	P0C214	Q9GZU5	-1.0908
61619	P0C214	P51956	-0.22741
61620	P0C214	Q9Y219	-0.59013
61621	P0C214	P17813	-0.21832
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61623	P0C214	P01702	-1.0022
61624	P0C214	Q13217	-0.17456
61625	P0C214	Q6P3X3	-0.22645
61626	P0C214	P08034	-0.90916
61627	P0C214	P31267	-0.22643
61628	P0C214	O95868	-0.72814
61629	P0C214	Q6UWY2	-1.4261
61630	P0C214	Q6PEW0	-0.87965
61631	P0C214	Q8N323	-0.91736
61632	P0C214	P37235	-0.43585
61633	P0C214	P01584	-0.22523
61634	P0C214	Q9H3Y0	-0.86154
61635	P0C214	Q6ZMI0	-0.33425
61636	P0C214	Q86TG1	-1.0449



61637	P0C214	Q9H2A7	-1.1852
61638	P0C214	Q14094	-0.47383
61639	P0C214	Q9H6R0	-0.22022
61640	P0C214	Q66K66	-0.98681
61641	P0C214	Q8TBQ9	-0.79982
61642	P0C214	Q9HC98	-0.34694
61643	P0C214	Q9Y3P4	-1.0431
61644	P0C214	P30040	-0.045105
61645	P0C214	O95236	-1.1561
61646	P0C214	Q96KW9	-0.91427
61647	P0C214	Q5SZJ8	-0.29016
61648	P0C214	Q9HC36	-0.13141
61649	P0C214	Q8NHS9	-0.050876
61650	P0C214	P21589	-0.41119
61651	P0C214	Q9Y6J6	-1.1948
61652	P0C214	Q8TD08	-1.3195
61653	P0C214	P22004	-0.58914
61654	P0C214	Q6ZLNQ3	-0.22938
61655	P0C214	Q92508	-1.0333
61656	P0C214	Q06136	-0.9396
61657	P0C214	Q94919	-0.8198
61658	P0C214	Q5JXM2	-0.8201
61659	P0C214	Q9Y5I0	-1.2424
61660	P0C214	A1A4F0	-0.25499
61661	P0C214	Q9NYT0	-0.55868
61662	P0C214	P14406	-0.26199
61663	P0C214	O76087	-0.47295
61664	P0C214	Q9H2X3	-0.96142
61665	P0C214	Q99719	-0.2257
61666	P0C214	Q96S53	-0.77467
61667	P0C214	P81277	-0.54872
61668	P0C214	Q9GZY0	-0.30896
61669	P0C214	Q8NGG7	-1.2952
61670	P0C214	Q96MA1	-0.12372
61671	P0C214	P35052	-0.72652
61672	P0C214	P02686	-0.70739
61673	P0C214	Q04912	-0.88566
61674	P0C214	Q8N8Q8	-0.50999
61675	P0C214	Q7RTU7	-0.2335
61676	P0C214	Q6PUV4	-0.26424
61677	P0C214	Q9UMR3	-0.67786
61678	P0C214	O60500	-0.63823
61679	P0C214	Q9BZ71	-0.82366
61680	P0C214	Q99697	-0.17716
61681	P0C214	P04436	-0.55951
61682	P0C214	Q13423	-0.54555
61683	P0C214	Q96CK0	-0.43849
61684	P0C214	Q8IZ96	-0.94069
61685	P0C214	Q9H6X4	-0.98681
61686	P0C214	P98187	-0.87347
61687	P0C214	Q9NYW6	-1.2243
61688	P0C214	Q8WXF0	-0.38228
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61690	P0C214	O60343	-1.0001
61691	P0C214	Q9P126	-0.58649
61692	P0C214	Q8NA75	-0.2273
61693	P0C214	P02647	-0.28943
61694	P0C214	O43916	-0.53588
61695	P0C214	Q99571	-0.52732
61696	P0C214	Q8TED4	-0.97443
61697	P0C214	Q9NSB8	-0.43918
61698	P0C214	Q14964	-0.90863
61699	P0C214	Q93096	-0.3933
61700	P0C214	P0C629	-1.2952
61701	P0C214	Q5JTY5	-0.79608
61702	P0C214	Q9Y5Z6	-0.88377
61703	P0C214	Q96IW2	-0.2274
61704	P0C214	Q9NPF7	-0.40724
61705	P0C214	Q96L73	-0.22761
61706	P0C214	Q8IWU5	-0.35728
61707	P0C214	Q68D20	-0.35709
61708	P0C214	Q8NG92	-1.2952
61709	P0C214	Q9BXR5	-1.2526
61710	P0C214	Q4V321	-0.60816
61711	P0C214	O95171	-0.13647
61712	P0C214	P04216	-0.24273

61713	P0C214	P37058	-0.36872
61714	P0C214	O60741	-1.2657
61715	P0C214	Q9BZ68	-0.41401
61716	P0C214	Q9H112	-0.25685
61717	P0C214	P25116	-0.40909
61718	P0C214	O94854	-0.69316
61719	P0C214	B2CW77	-0.12338
61720	P0C214	D6RBM5	-0.26345
61721	P0C214	Q8N2F6	-0.77977
61722	P0C214	Q8WWL2	-0.36189
61723	P0C214	Q8N807	-0.70486
61724	P0C214	Q9H3N1	-0.89894
61725	P0C214	Q8WV48	-0.98681
61726	P0C214	Q8TB37	-0.64711
61727	P0C214	Q96DR7	-1.055
61728	P0C214	Q9UDW1	-0.2742
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61730	P0C214	Q15771	-1.0026
61731	P0C214	O15146	-0.93858
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61733	P0C214	P49755	-0.17427
61734	P0C214	Q92481	-0.17559
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61736	P0C214	Q8N392	-0.86358
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61738	P0C214	P05549	-0.20143
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61741	P0C214	Q9Y366	-0.33361
61742	P0C214	Q8NI36	-0.22799
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61744	P0C214	Q86UR1	-0.22736
61745	P0C214	Q14772	-0.81367
61746	P0C214	Q4G0G5	-0.91736
61747	P0C214	Q8NH00	-1.2952
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61752	P0C214	Q8TAI7	-0.96032
61753	P0C214	Q9NV35	-0.35349
61754	P0C214	Q92542	-0.40646
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61759	P0C214	Q8NG06	-0.71534
61760	P0C214	Q15018	-0.40763
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61762	P0C214	Q96LP2	-0.033785
61763	P0C214	Q9HCU5	-0.22741
61764	P0C214	Q13634	-1.2098
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61766	P0C214	Q05C16	-0.22856
61767	P0C214	A6NEA5	-0.35323
61768	P0C214	P30086	-0.32268
61769	P0C214	Q14863	-0.74201
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61771	P0C214	P26378	-0.78472
61772	P0C214	P61129	-0.32191
61773	P0C214	Q9H3U5	-1.0455
61774	P0C214	Q8WV35	-0.1996
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61776	P0C214	Q96ME7	-0.19716
61777	P0C214	Q99679	-1.4957
61778	P0C214	P36021	-1.0774
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61781	P0C214	Q13519	-1.0149
61782	P0C214	Q96RY7	-0.40545
61783	P0C214	Q9H7M6	-0.50512
61784	P0C214	Q9UJQ7	-0.38327
61785	P0C214	Q69384	-0.85122
61786	P0C214	Q5YKI7	-0.64697
61787	P0C214	Q6IPM2	-0.15814
61788	P0C214	P08590	-0.22505

61789	P0C214	Q9HB89	-1.1877
61790	P0C214	Q5T2L2	-0.26052
61791	P0C214	A6NHM9	-0.5545
61792	P0C214	Q9UBY0	-1.1989
61793	P0C214	P05089	-0.17761
61794	P0C214	Q8NH60	-1.2952
61795	P0C214	Q8WUR7	-0.17088
61796	P0C214	Q9UQC9	-1.5979
61797	P0C214	Q15262	-0.69496
61798	P0C214	Q86T24	-0.41709
61799	P0C214	P10176	-0.47996
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61801	P0C214	P42680	-0.99872
61802	P0C214	Q9H2U6	-0.13143
61803	P0C214	O43760	-0.9654
61804	P0C214	Q9Y5P6	-0.57655
61805	P0C214	Q8TC27	-1.1427
61806	P0C214	A6NFM8	-0.80492
61807	P0C214	Q5QGZ9	-1.0559
61808	P0C214	Q96RU2	-0.56897
61809	P0C214	Q9NPH6	-0.88521
61810	P0C214	O95467	-0.77711
61811	P0C214	Q14332	-0.64616
61812	P0C214	Q8N7I0	-0.21836
61813	P0C214	Q3B7J2	-1.3475
61814	P0C214	Q03403	-0.25714
61815	P0C214	P13498	-0.27805
61816	P0C214	P54764	-0.59769
61817	P0C214	Q9Y5J1	-0.22741
61818	P0C214	Q658T7	-0.03919
61819	P0C214	Q02978	-0.34908
61820	P0C214	Q7Z570	-0.71534
61821	P0C214	B5MD39	-0.36935
61822	P0C214	Q14833	-1.3478
61823	P0C214	Q16048	-0.84729
61824	P0C214	Q8WZ75	-1.1001
61825	P0C214	Q99525	-0.62776
61826	P0C214	Q99250	-1.0452
61827	P0C214	P0C862	-0.94469
61828	P0C214	P49641	-0.56409
61829	P0C214	Q9UQ74	-0.91736
61830	P0C214	Q8WV16	-0.36625
61831	P0C214	Q9H0H5	-0.23866
61832	P0C214	P04001	-1.453
61833	P0C214	Q9NFP99	-1.3691
61834	P0C214	Q969Y2	-0.72533
61835	P0C214	P29279	-0.22982
61836	P0C214	P35225	-0.30138
61837	P0C214	Q13586	-0.46988
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61839	P0C214	P56557	-0.81502
61840	P0C214	Q14940	-1.143
61841	P0C214	Q5BVD1	-1.0037
61842	P0C214	Q92737	-0.69653
61843	P0C214	O95256	-1.2583
61844	P0C214	Q6DKI1	-0.14679
61845	P0C214	Q76003	-0.22822
61846	P0C214	Q9NSD7	-1.4393
61847	P0C214	Q08AH3	-0.58919
61848	P0C214	Q92918	-0.66661
61849	P0C214	Q86VI1	-0.27786
61850	P0C214	A6NFR6	-0.98681
61851	P0C214	P13473	-0.73857
61852	P0C214	O00322	-0.87109
61853	P0C214	Q13433	-1.0327
61854	P0C214	O75365	-0.80728
61855	P0C214	Q9UIA0	-0.68507
61856	P0C214	P17252	-0.20835
61857	P0C214	Q9BZG9	-1.2036
61858	P0C214	Q8NH19	-1.2952
61859	P0C214	O95255	-1.3288
61860	P0C214	Q8IY33	-0.367
61861	P0C214	O43525	-1.0334
61862	P0C214	P07205	-0.34273
61863	P0C214	P21730	-1.2144
61864	P0C214	B4E2M5	-0.22741

61865	P0C214	Q9H2C1	-0.22827
61866	P0C214	Q8IUI8	-0.22921
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61868	P0C214	Q8WWA0	-1.0882
61869	P0C214	Q86XP1	-0.49044
61870	P0C214	Q96HE7	-0.35459
61871	P0C214	Q5FWF5	-0.30248
61872	P0C214	Q9NXG2	-0.4166
61873	P0C214	Q6ZU82	-0.4203
61874	P0C214	Q9ULT6	-0.4484
61875	P0C214	A4D2P6	-0.40437
61876	P0C214	Q8NGY3	-1.2952
61877	P0C214	Q8IWN7	-0.27486
61878	P0C214	Q96JJ6	-1.014
61879	P0C214	Q13255	-0.97397
61880	P0C214	Q0VDE8	-0.42896
61881	P0C214	Q02548	-0.22732
61882	P0C214	P48304	-0.90208
61883	P0C214	Q92838	-0.91476
61884	P0C214	Q9NY64	-0.73655
61885	P0C214	Q9BUB5	-0.22759
61886	P0C214	Q6PIF2	-0.20994
61887	P0C214	P51790	-0.48316
61888	P0C214	P43115	-1.1497
61889	P0C214	Q765I0	-0.89474
61890	P0C214	P35680	-0.22366
61891	P0C214	Q9H9B1	-0.22741
61892	P0C214	Q9Y2Y8	-0.37458
61893	P0C214	P27708	-0.29119
61894	P0C214	P10072	-0.35691
61895	P0C214	P09228	-0.90522
61896	P0C214	O00635	-0.82172
61897	P0C214	Q14123	-0.22577
61898	P0C214	Q9Y6E0	-0.23444
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61902	P0C214	Q96H96	-0.66817
61903	P0C214	O15031	-1.0501
61904	P0C214	Q02413	-0.61635
61905	P0C214	Q9Y597	-0.19081
61906	P0C214	P52789	-0.17534
61907	P0C214	Q9NZN9	-0.20835
61908	P0C214	O43556	-0.82668
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61910	P0C214	Q9Y231	-0.55909
61911	P0C214	Q8ND94	-0.98681
61912	P0C214	P21781	-0.49991
61913	P0C214	Q9UIK4	-0.85215
61914	P0C214	Q9BYV1	-0.12107
61915	P0C214	P46459	-0.23386
61916	P0C214	Q9NX07	-0.22999
61917	P0C214	Q15109	-0.82894
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61920	P0C214	Q8TDF6	-0.44959
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61922	P0C214	Q9BZ97	-0.98681
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61931	P0C214	Q86UP2	-0.96943
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61933	P0C214	P78410	-0.9365
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61935	P0C214	Q96T54	-1.2288
61936	P0C214	Q8TDS4	-1.061
61937	P0C214	Q9NZQ8	-1.1125
61938	P0C214	P01567	-0.60159
61939	P0C214	P43308	-0.74999
61940	P0C214	P02763	-0.58473

61941	P0C214	P60033	-0.37029
61942	P0C214	Q9UPI3	-1.0438
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61944	P0C214	Q8N9I1	-0.98681
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61950	P0C214	P05093	-0.3922
61951	P0C214	Q7Z4L9	-0.23392
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61958	P0C214	Q6DN90	-0.21363
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61963	P0C214	Q4W5N1	-0.2609
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61965	P0C214	Q06250	-0.18353
61966	P0C214	Q8NGN7	-1.2952
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61968	P0C214	Q9UBF9	-0.22754
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61970	P0C214	Q8TEB9	-0.48132
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61972	P0C214	Q6VB85	-0.41532
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61974	P0C214	Q3T906	-0.58251
61975	P0C214	Q8N4T0	-1.2901
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61984	P0C214	Q9BZJ6	-1.1819
61985	P0C214	Q99720	-0.7055
61986	P0C214	Q9H293	-0.65518
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61988	P0C214	Q9BZ76	-1.797
61989	P0C214	Q9NRD5	-0.2272
61990	P0C214	Q8N9I5	-0.95873
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62022	P0C214	Q6F5E7	-0.49979
62023	P0C214	O95867	-0.5764
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62025	P0C214	A4D263	-0.18353
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62030	P0C214	Q96QR1	-0.7977
62031	P0C214	Q8TDD5	-1.0011
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62033	P0C214	P07101	-0.21786
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62039	P0C214	P63302	-0.21961
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62041	P0C214	Q9NP58	-0.77673
62042	P0C214	Q8N292	-1.0451
62043	P0C214	Q15648	-0.15635
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62045	P0C214	P35670	-0.26717
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62047	P0C214	P85298	-0.30726
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62051	P0C214	P07360	-0.91117
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62060	P0C214	Q8N9F0	-0.5759
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62087	P0C214	Q96FN4	-0.2278
62088	P0C214	P34910	-0.93403
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62105	P0C214	O15374	-1.1703
62106	P0C214	P18827	-0.5057
62107	P0C214	Q8N158	-0.78821
62108	P0C214	Q96C92	-0.20758
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62124	P0C214	Q99788	-0.92347
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62126	P0C214	Q9BR01	-0.41501
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62166	P0C214	P49643	-0.36475
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62174	P0C214	Q9BSK0	-0.43569
62175	P0C214	Q9UK22	-0.12553
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62177	P0C214	Q8NGF9	-1.2952
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62185	P0C214	Q96AB6	-0.13865
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62194	P0C214	Q16842	-0.52136
62195	P0C214	Q6UY18	-0.98681
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62199	P0C214	P00390	-0.22268
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62201	P0C214	P32418	-0.51248
62202	P0C214	Q8IUG5	-0.05188
62203	P0C214	Q9ULD6	-0.30859
62204	P0C214	P20848	-0.63505
62205	P0C214	O60303	-0.24297
62206	P0C214	Q6ZSG1	-0.50512
62207	P0C214	Q13103	-0.86851
62208	P0C214	Q15147	-0.22666
62209	P0C214	Q96PE3	-0.17151
62210	P0C214	P63027	-0.21372
62211	P0C214	O60279	-1.1413
62212	P0C214	Q8N2H3	-0.45045
62213	P0C214	Q8TE49	-0.53998
62214	P0C214	Q8IVV8	-1.0708
62215	P0C214	Q9H0Q3	-1.0627
62216	P0C214	P34982	-1.3341
62217	P0C214	P83111	-0.37189
62218	P0C214	Q9HCT0	-0.5911
62219	P0C214	Q9Y6S9	-0.99026
62220	P0C214	Q8N8A6	-0.3224
62221	P0C214	P03372	-0.22751
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62223	P0C214	A0AUZ9	-0.30478
62224	P0C214	P0C7N4	-0.98681
62225	P0C214	Q8IZS6	-0.20085
62226	P0C214	Q9UKM9	-0.37711
62227	P0C214	A4D2H0	-0.04927
62228	P0C214	O43298	-0.18112
62229	P0C214	P48307	-0.62998
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62231	P0C214	Q96MK2	-0.077224
62232	P0C214	Q14344	-0.33961
62233	P0C214	O75563	-0.3806
62234	P0C214	Q07011	-1.0736
62235	P0C214	Q13153	-0.22792
62236	P0C214	Q9UQF0	-0.8398
62237	P0C214	Q717R9	-0.065495
62238	P0C214	O14633	-0.23828
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62241	P0C214	P23415	-0.57781
62242	P0C214	Q13098	-0.15499
62243	P0C214	P49796	-0.22742
62244	P0C214	P31274	-0.055769



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62247	P0C214	Q53GQ0	-0.4318
62248	P0C214	Q3ZAQ7	-0.93777
62249	P0C214	Q9UBG3	-0.26717
62250	P0C214	P35542	-0.83284
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62253	P0C214	Q9Y6F6	-0.41922
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62255	P0C214	Q7Z353	-0.12424
62256	P0C214	Q6ZN54	-0.66542
62257	P0C214	Q8NHP1	-0.45045
62258	P0C214	O60814	-0.83614
62259	P0C214	Q8NET8	-1.0583
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62261	P0C214	P04155	-0.35376
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62263	P0C214	P59544	-1.2886
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62269	P0C214	Q12860	-0.48491
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62271	P0C214	Q9Y4G2	-0.32763
62272	P0C214	Q9Y258	-0.94926
62273	P0C214	Q9BPX6	-0.51125
62274	P0C214	Q9NZK7	-0.7773
62275	P0C214	Q9Y2J0	-0.24088
62276	P0C214	Q9Y4P9	-0.1465
62277	P0C214	Q9BY79	-0.85679
62278	P0C214	O15156	-0.20752
62279	P0C214	Q99501	-0.25882
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62281	P0C214	P10275	-0.22745
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62283	P0C214	Q8WWF1	-0.91736
62284	P0C214	A6NFH5	-0.69029
62285	P0C214	O75951	-0.82212
62286	P0C214	O75506	-0.23364
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62291	P0C214	Q9HCK4	-0.54988
62292	P0C214	Q86UW7	-0.44309
62293	P0C214	P62942	-0.22826
62294	P0C214	Q9Y614	-0.24088
62295	P0C214	Q96DT5	-0.6897
62296	P0C214	P51575	-0.53538
62297	P0C214	Q969F2	-0.20183
62298	P0C214	P17931	-0.20463
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62304	P0C214	Q04828	-0.226
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62307	P0C214	Q6QNK2	-1.3853
62308	P0C214	Q8NGY9	-1.1265
62309	P0C214	O95405	-0.17771
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62312	P0C214	Q9HCK0	-0.18036
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62315	P0C214	P08185	-0.87306
62316	P0C214	P15907	-0.87491
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62319	P0C214	Q9HB29	-1.175
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62323	P0C214	P08567	-0.22741
62324	P0C214	Q5VW00	-0.22729
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62326	P0C214	P54619	-0.35538
62327	P0C214	Q9NS15	-0.82234
62328	P0C214	Q9HBJ8	-1.1174
62329	P0C214	Q9Y2V3	-0.35696
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62334	P0C214	P67936	-0.29612
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62337	P0C214	Q14031	-1.172
62338	P0C214	Q9Y653	-1.5986
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62352	P0C214	Q86TN4	-0.46849
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62360	P0C214	Q96LL9	-0.42838
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62369	P0C214	Q8N6T3	-0.047639
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62382	P0C214	Q95460	-0.33907
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62384	P0C214	Q8N6W0	-0.32199
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62426	P0C214	Q9NP55	-0.95049
62427	P0C214	Q6S8J7	-0.22694
62428	P0C214	Q8IW41	-0.27806
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62430	P0C214	P15954	-0.47996
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62436	P0C214	Q969E2	-0.85025
62437	P0C214	Q8N145	-0.75292
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62440	P0C214	Q9UMQ6	-1.0024
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62448	P0C214	Q53SF7	-0.44956
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62452	P0C214	P14902	-0.13407
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62456	P0C214	Q13117	-0.76134
62457	P0C214	Q86XP6	-0.91736
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62459	P0C214	A4D174	-0.75744
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62461	P0C214	Q13635	-0.30338
62462	P0C214	Q9UIQ6	-1.2451
62463	P0C214	Q96N76	-0.39163
62464	P0C214	P19440	-0.33299
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62467	P0C214	Q9NUN7	-0.35104
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62481	P0C214	Q99835	-0.25833
62482	P0C214	Q7Z4L0	-0.71127
62483	P0C214	A8MYZ5	-0.21582
62484	P0C214	Q9UGI9	-0.86606
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62504	P0C214	Q9H5V7	-0.22899
62505	P0C214	Q5VW36	-0.58894
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62507	P0C214	P29034	-0.35368
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62562	P0C214	Q05682	-0.50079
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62596	P0C214	Q9UII6	-0.80979
62597	P0C214	Q9Y6V0	-0.47137
62598	P0C214	Q96GD3	-0.18961
62599	P0C214	Q6T310	-0.23287
62600	P0C214	Q9BRP7	-0.33381
62601	P0C214	Q75596	-0.99782
62602	P0C214	O15357	-0.22741
62603	P0C214	O95835	-0.22732
62604	P0C214	P52823	-0.58981
62605	P0C214	Q9NVX7	-0.22377
62606	P0C214	P01712	-1.0022
62607	P0C214	P56134	-0.52983
62608	P0C214	Q86U17	-0.63505
62609	P0C214	Q96R45	-1.2952
62610	P0C214	B2RNN3	-0.96884
62611	P0C214	P51878	-0.78318
62612	P0C214	Q9UMN6	-0.22625
62613	P0C214	P42684	-0.43525
62614	P0C214	P15918	-0.22669
62615	P0C214	Q02539	-0.79938
62616	P0C214	Q96Q11	-0.40385
62617	P0C214	Q5HYA8	-0.28585
62618	P0C214	Q15149	-0.22786
62619	P0C214	P55160	-0.2951
62620	P0C214	Q6ZTR5	-0.31326
62621	P0C214	P61601	-0.54204
62622	P0C214	Q9ULS5	-0.98681
62623	P0C214	Q9Y5W7	-0.96433
62624	P0C214	P41594	-0.78013

62625	P0C214	Q8IYP2	-1.4261
62626	P0C214	P50591	-0.62187
62627	P0C214	Q5FYA8	-0.62205
62628	P0C214	Q9ULW5	-0.84887
62629	P0C214	O95718	-0.22745
62630	P0C214	Q8IY50	-1.0564
62631	P0C214	Q15035	-0.26626
62632	P0C214	Q75LS8	-0.40908
62633	P0C214	Q13207	-0.40088
62634	P0C214	Q5VVY1	-0.33624
62635	P0C214	P01781	-1.0022
62636	P0C214	O00338	-0.23042
62637	P0C214	P27338	-0.4658
62638	P0C214	P49888	-0.23598
62639	P0C214	P09758	-0.82881
62640	P0C214	Q9H4G0	-0.26033
62641	P0C214	Q6ZR37	-0.76296
62642	P0C214	Q7Z6I6	-0.83145
62643	P0C214	Q4ZIN3	-0.78894
62644	P0C214	O14514	-1.5677
62645	P0C214	Q9HBM0	-0.56951
62646	P0C214	P36268	-0.60888
62647	P0C214	Q8N7S2	-0.4424
62648	P0C214	Q99952	-0.2635
62649	P0C214	Q9BY64	-0.952
62650	P0C214	Q9NV64	-0.98681
62651	P0C214	Q8IU85	-0.6494
62652	P0C214	Q16778	-0.83614
62653	P0C214	Q9H2D6	-0.24293
62654	P0C214	Q2VYF4	-0.72984
62655	P0C214	O75711	-0.84552
62656	P0C214	Q9P0T7	-0.98727
62657	P0C214	Q8N9N7	-0.25626
62658	P0C214	Q6IMN6	-0.34115
62659	P0C214	Q9NP08	-0.2279
62660	P0C214	Q96HY7	-0.084862
62661	P0C214	Q96M69	-0.91844
62662	P0C214	P55084	-0.17749
62663	P0C214	Q8WV83	-1.0564
62664	P0C214	Q96BY9	-0.49762
62665	P0C214	P00367	-0.1732
62666	P0C214	Q9H2D1	-0.53036
62667	P0C214	Q9P2Q2	-0.2752
62668	P0C214	Q7Z3Z2	-0.48299
62669	P0C214	Q9NRG0	-0.42984
62670	P0C214	Q96R27	-1.2952
62671	P0C214	P30041	-0.2102
62672	P0C214	Q76LX8	-0.4399
62673	P0C214	Q9Y625	-0.92056
62674	P0C214	Q9UI38	-0.61485
62675	P0C214	Q86X45	-0.3316
62676	P0C214	Q9ULH1	-0.49158
62677	P0C214	Q8N813	-0.27795
62678	P0C214	A0PJW6	-0.75609
62679	P0C214	O00560	-0.22751
62680	P0C214	Q86SI9	-0.91736
62681	P0C214	Q4VXU2	-0.83638
62682	P0C214	Q8IWK6	-1.3735
62683	P0C214	Q96GD4	-0.69123
62684	P0C214	Q8N7L0	-0.16996
62685	P0C214	Q2TB18	-0.30261
62686	P0C214	Q4VC31	-0.15381
62687	P0C214	Q96NK8	-0.22757
62688	P0C214	Q9NWR8	-0.98681
62689	P0C214	Q9NZ56	-0.53209
62690	P0C214	P07148	-0.22029
62691	P0C214	P50120	-0.18963
62692	P0C214	Q9UI33	-1.1457
62693	P0C214	P14416	-0.27196
62694	P0C214	O15211	-0.81488
62695	P0C214	Q86Y82	-0.3698
62696	P0C214	Q8NH76	-1.2952
62697	P0C214	Q9NRW7	-0.21581
62698	P0C214	Q8WV41	-0.22741
62699	P0C214	Q86XI6	-0.20086
62700	P0C214	Q13885	-0.5045

62701	P0C214	O15091	-0.1059
62702	P0C214	Q8TEQ8	-0.81559
62703	P0C214	A5D8T8	-0.90767
62704	P0C214	Q96JM4	-0.22637
62705	P0C214	Q13564	-0.27095
62706	P0C214	Q5TEJ8	-0.66877
62707	P0C214	Q96P69	-1.352
62708	P0C214	Q5T7P3	-0.38015
62709	P0C214	Q9Y2E4	-0.18703
62710	P0C214	Q96MC2	-0.43798
62711	P0C214	Q8N5C7	-0.42321
62712	P0C214	Q8N752	-1.0717
62713	P0C214	Q9NWF4	-1.2027
62714	P0C214	Q32P44	-0.22779
62715	P0C214	P04626	-0.22748
62716	P0C214	Q96E22	-0.88065
62717	P0C214	P20645	-1.0755
62718	P0C214	Q5JUK2	-0.1979
62719	P0C214	P22079	-0.91943
62720	P0C214	Q96SB4	-0.25308
62721	P0C214	P16871	-0.82073
62722	P0C214	Q14542	-0.43615
62723	P0C214	Q2QD12	-0.28737
62724	P0C214	P57764	-0.41484
62725	P0C214	Q02108	-0.59667
62726	P0C214	Q6UWB4	-1.3887
62727	P0C214	Q7L0J3	-0.64259
62728	P0C214	Q3C1W6	-0.71534
62729	P0C214	Q9Y5G4	-1.2424
62730	P0C214	A8MZ26	-0.43585
62731	P0C214	P0C628	-1.2952
62732	P0C214	Q7Z3B1	-0.33231
62733	P0C214	Q99469	-0.2274
62734	P0C214	P50053	-0.11826
62735	P0C214	Q9H1D0	-1.1774
62736	P0C214	Q3MIW9	-0.98681
62737	P0C214	P02750	-0.77338
62738	P0C214	Q9BY49	-0.74508
62739	P0C214	Q9Y4F9	-0.45175
62740	P0C214	Q8NH06	-1.2952
62741	P0C214	Q8N7Z5	-0.22741
62742	P0C214	P60827	-0.96884
62743	P0C214	P01891	-0.91186
62744	P0C214	Q8N687	-0.88056
62745	P0C214	A6NLX4	-0.98681
62746	P0C214	O75460	-0.322
62747	P0C214	Q96PF2	-0.86732
62748	P0C214	Q02535	-0.22407
62749	P0C214	P28845	-0.97909
62750	P0C214	Q9UHP7	-1.1374
62751	P0C214	Q96RP9	-0.56083
62752	P0C214	Q15011	-0.46981
62753	P0C214	P29973	-1.5193
62754	P0C214	P42336	-0.37904
62755	P0C214	Q7RTY7	-1.463
62756	P0C214	Q765P7	-0.71744
62757	P0C214	P11362	-0.27533
62758	P0C214	Q14149	-0.19124
62759	P0C214	Q96KJ9	-0.31041
62760	P0C214	Q96IZ2	-1.0708
62761	P0C214	P35498	-0.98578
62762	P0C214	P55001	-0.84716
62763	P0C214	Q8WW32	-0.50386
62764	P0C214	A6NNZ2	-0.7021
62765	P0C214	Q9NZN1	-0.63662
62766	P0C214	Q8NG94	-1.2952
62767	P0C214	Q5SSJ5	-0.71574
62768	P0C214	Q8TDY4	-0.52043
62769	P0C214	Q13488	-0.7838
62770	P0C214	P27918	-0.91695
62771	P0C214	Q9HD87	-0.98681
62772	P0C214	Q2NKX8	-0.30423
62773	P0C214	Q9BYE4	-0.2479
62774	P0C214	Q13825	-0.13082
62775	P0C214	O95918	-1.2335
62776	P0C214	P50052	-0.81074

62777	P0C214	Q13410	-1.552
62778	P0C214	Q96AP0	-0.17221
62779	P0C214	P17677	-0.12892
62780	P0C214	P20849	-0.65381
62781	P0C214	Q9BZJ8	-1.1924
62782	P0C214	Q56A73	-0.37965
62783	P0C214	P02654	-0.61889
62784	P0C214	Q5HYJ3	-0.10129
62785	P0C214	Q15513	-0.42114
62786	P0C214	Q96RQ9	-0.9073
62787	P0C214	Q9NPB3	-0.38439
62788	P0C214	P17538	-1.3633
62789	P0C214	P18510	-0.3178
62790	P0C214	P62684	-0.45806
62791	P0C214	Q86WK7	-1.1415
62792	P0C214	Q8N442	-0.48091
62793	P0C214	Q9GZU1	-0.94833
62794	P0C214	Q5T601	-0.85127
62795	P0C214	P01858	-0.31468
62796	P0C214	Q96HZ4	-0.22579
62797	P0C214	Q9NRY7	-1.0496
62798	P0C214	Q9NPI9	-1.2272
62799	P0C214	Q9NNX6	-0.96087
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62801	P0C214	P10721	-0.30609
62802	P0C214	Q9BS86	-0.89281
62803	P0C214	O43559	-0.6678
62804	P0C214	Q9Y3A0	-0.23943
62805	P0C214	Q9Y666	-1.1914
62806	P0C214	P01762	-1.0022
62807	P0C214	D6R901	-0.68518
62808	P0C214	O96014	-0.42552
62809	P0C214	P26715	-1.2201
62810	P0C214	Q9P215	-0.34517
62811	P0C214	P35236	-0.28773
62812	P0C214	Q92688	-0.15575
62813	P0C214	P28360	-0.15951
62814	P0C214	Q86VS3	-0.87905
62815	P0C214	P46092	-1.3679
62816	P0C214	Q6P597	-0.051183
62817	P0C214	Q8ND61	-0.78894
62818	P0C214	A6NMP4	-0.72842
62819	P0C214	Q13733	-1.04
62820	P0C214	Q9GZU3	-0.98681
62821	P0C214	Q02747	-0.97637
62822	P0C214	Q3MJ13	-0.22807
62823	P0C214	P07550	-0.32262
62824	P0C214	Q8TD86	-0.22332
62825	P0C214	P29597	-0.71424
62826	P0C214	Q16774	-0.40454
62827	P0C214	P23759	-0.21948
62828	P0C214	P49238	-0.69463
62829	P0C214	Q08116	-0.67406
62830	P0C214	Q8NE86	-0.3603
62831	P0C214	Q13686	-0.22052
62832	P0C214	A6NJG6	-0.2064
62833	P0C214	Q86VB7	-1.0276
62834	P0C214	Q30KQ5	-0.88056
62835	P0C214	Q15269	-0.22457
62836	P0C214	A4D0S4	-1.2333
62837	P0C214	Q5MJ09	-0.14981
62838	P0C214	Q9Y6K0	-0.3956
62839	P0C214	Q9H4F8	-1.2792
62840	P0C214	P15313	-0.3137
62841	P0C214	Q92766	-0.21305
62842	P0C214	Q6IE37	-0.70605
62843	P0C214	P22455	-0.80054
62844	P0C214	Q9UQ13	-0.27226
62845	P0C214	Q8WX77	-0.87692
62846	P0C214	Q8NE63	-1.1062
62847	P0C214	Q2MKA7	-0.22714
62848	P0C214	A6NHI5	-0.98681
62849	P0C214	P30536	-0.35323
62850	P0C214	Q3ZCU0	-0.20897
62851	P0C214	Q5JZY3	-1.2347
62852	P0C214	Q9BXX5	-0.29432



62853	P0C214	Q9BV44	-0.34444
62854	P0C214	O95727	-0.98431
62855	P0C214	Q8NH21	-1.2952
62856	P0C214	Q684P5	-0.22251
62857	P0C214	Q8N165	-1.0156
62858	P0C214	Q8NGN6	-1.2952
62859	P0C214	P46091	-1.4957
62860	P0C214	Q96PZ2	-0.50812
62861	P0C214	Q3C1V9	-0.064166
62862	P0C214	Q76N89	-0.22741
62863	P0C214	Q16674	-0.78562
62864	P0C214	Q3SY46	-0.077263
62865	P0C214	Q9HBH5	-0.61459
62866	P0C214	Q96S90	-0.38318
62867	P0C214	P54868	-0.22085
62868	P0C214	Q8NHX4	-0.26903
62869	P0C214	Q9H0K1	-0.50957
62870	P0C214	P0C874	-0.98681
62871	P0C214	Q2M2I8	-0.93814
62872	P0C214	Q9UGC6	-0.34685
62873	P0C214	Q86YQ8	-0.22974
62874	P0C214	Q9BQP7	-0.15381
62875	P0C214	Q8IWB6	-0.42854
62876	P0C214	Q9UJD0	-0.36216
62877	P0C214	Q6NUS8	-0.90861
62878	P0C214	Q9NUP9	-0.14841
62879	P0C214	Q9BXB7	-0.7125
62880	P0C214	Q6GPI1	-1.3633
62881	P0C214	P01732	-0.82929
62882	P0C214	P07203	-0.25391
62883	P0C214	Q3SXP7	-0.98681
62884	P0C214	Q6XUX3	-0.69466
62885	P0C214	Q96P48	-0.29934
62886	P0C214	Q6ZSR3	-0.15381
62887	P0C214	A4D0T2	-0.98681
62888	P0C214	Q16799	-0.54906
62889	P0C214	Q9BXP2	-1.0904
62890	P0C214	Q9HD64	-0.095819
62891	P0C214	P35625	-0.34775
62892	P0C214	Q8NGV0	-1.2952
62893	P0C214	Q9BTV7	-0.098377
62894	P0C214	Q9BTZ2	-0.46608
62895	P0C214	Q7RTY0	-1.1032
62896	P0C214	Q8TF66	-0.98681
62897	P0C214	Q11206	-0.68784
62898	P0C214	A6NN79	-0.98681
62899	P0C214	Q5T7R7	-0.98681
62900	P0C214	O14958	-0.4515
62901	P0C214	P11686	-0.33863
62902	P0C214	O14950	-0.22612
62903	P0C214	Q5K130	-0.47142
62904	P0C214	Q9UKU9	-1.3125
62905	P0C214	Q9H2W1	-0.98681
62906	P0C214	Q9UBR5	-1.209
62907	P0C214	Q6IF63	-1.2952
62908	P0C214	Q9NNZ6	-0.80842
62909	P0C214	P01138	-0.3847
62910	P0C214	Q8IV08	-0.27988
62911	P0C214	Q8IXL9	-0.21188
62912	P0C214	Q03181	-0.34205
62913	P0C214	Q7Z7L9	-0.44971
62914	P0C214	Q8IWA4	-0.84256
62915	P0C214	Q9UBP0	-0.22928
62916	P0C214	Q96K76	-0.43488
62917	P0C214	O15240	-0.56541
62918	P0C214	Q04721	-0.23926
62919	P0C214	Q6ZMD2	-1.1733
62920	P0C214	Q6ZV29	-0.47258
62921	P0C214	P01708	-1.0022
62922	P0C214	Q6P158	-0.86153
62923	P0C214	C9JRZ8	-0.45045
62924	P0C214	P13866	-0.24414
62925	P0C214	P09958	-0.45983
62926	P0C214	Q9Y5F9	-1.2424
62927	P0C214	P04206	-1.0022
62928	P0C214	Q5T9Z0	-0.98681

62929	P0C214	Q9UM22	-0.88725
62930	P0C214	P47775	-1.448
62931	P0C214	E7ERA6	-1.0783
62932	P0C214	Q9UKJ1	-0.92303
62933	P0C214	P00156	-0.60166
62934	P0C214	P25089	-1.3606
62935	P0C214	Q9NST1	-0.60188
62936	P0C214	P30518	-0.79422
62937	P0C214	Q9P2N7	-0.18275
62938	P0C214	Q96PD4	-0.52717
62939	P0C214	Q8N6S4	-0.46717
62940	P0C214	Q9NQC1	-0.4489
62941	P0C214	Q8IWZ5	-0.71534
62942	P0C214	Q96BQ3	-0.71534
62943	P0C214	Q5M775	-0.22751
62944	P0C214	Q9HBW0	-0.98263
62945	P0C214	Q8N4A0	-0.50269
62946	P0C214	Q8N2E6	-1.2083
62947	P0C214	Q96C03	-0.15669
62948	P0C214	Q9C009	-0.37245
62949	P0C214	Q96SM3	-1.4007
62950	P0C214	Q969F0	-0.91465
62951	P0C214	Q9NU22	-0.36045
62952	P0C214	Q6PIF6	-0.77204
62953	P0C214	Q15286	-0.47243
62954	P0C214	Q9HDC9	-0.84999
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62956	P0C214	Q86WA8	-0.36635
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62959	P0C214	Q9Y5F0	-1.2126
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62962	P0C214	Q9BYR9	-0.38191
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62966	P0C214	Q8NGG0	-1.2952
62967	P0C214	O60259	-0.5346
62968	P0C214	Q8NGG6	-1.2952
62969	P0C214	Q8NC67	-0.98681
62970	P0C214	Q9NTN9	-1.2154
62971	P0C214	P01588	-0.22107
62972	P0C214	P15289	-0.47659
62973	P0C214	P30531	-0.699
62974	P0C214	P01760	-1.0022
62975	P0C214	P22304	-0.40709
62976	P0C214	Q9H254	-0.22792
62977	P0C214	P11216	-0.0728
62978	P0C214	Q9HCN4	-0.97853
62979	P0C214	P19099	-0.28589
62980	P0C214	Q4G0M1	-0.91736
62981	P0C214	P49683	-1.318
62982	P0C214	Q96G42	-0.21049
62983	P0C214	O60762	-0.20079
62984	P0C214	Q7Z3H4	-0.2163
62985	P0C214	Q9BRL6	-0.53354
62986	P0C214	Q9H1K4	-0.79953
62987	P0C214	P56545	-0.36336
62988	P0C214	Q9HCJ3	-0.31203
62989	P0C214	P23435	-0.75969
62990	P0C214	Q9H4S2	-0.18777
62991	P0C214	A8MT33	-0.37044
62992	P0C214	Q7Z7H8	-0.42127
62993	P0C214	E9PQR5	-0.040354
62994	P0C214	Q96M98	-0.20773
62995	P0C214	A8MW92	-0.50512
62996	P0C214	P43403	-0.39831
62997	P0C214	Q3SYB3	-0.41532
62998	P0C214	Q9BY50	-0.74218
62999	P0C214	P40313	-0.9702
63000	P0C214	O60809	-0.18615
63001	P0C214	Q14108	-1.3217
63002	P0C214	Q8NGJ2	-1.2952
63003	P0C214	Q9NW97	-0.98681
63004	P0C214	O95258	-0.89738

63005	P0C214	Q8IUN9	-1.0712
63006	P0C214	Q9UUK9	-0.52286
63007	P0C214	Q8N2B8	-0.47212
63008	P0C214	Q96DU7	-0.39434
63009	P0C214	Q70HW3	-0.37534
63010	P0C214	Q8N0W4	-0.43939
63011	P0C214	P05019	-0.22412
63012	P0C214	Q5SQH8	-0.45713
63013	P0C214	A6NDP7	-0.98681
63014	P0C214	Q96EE4	-0.91736
63015	P0C214	Q9NZ20	-0.48074
63016	P0C214	Q53HI1	-0.39434
63017	P0C214	Q86UB9	-1.0335
63018	P0C214	Q9BVA0	-0.22962
63019	P0C214	P42127	-0.87298
63020	P0C214	Q8IZD0	-0.246
63021	P0C214	Q7Z6M2	-0.37066
63022	P0C214	Q01804	-0.18353
63023	P0C214	Q96R54	-1.2952
63024	P0C214	Q9HBF4	-0.21294
63025	P0C214	Q96MU5	-0.91736
63026	P0C214	P10316	-0.91186
63027	P0C214	P20815	-0.59138
63028	P0C214	Q96RC9	-1.2952
63029	P0C214	Q96CX2	-0.15611
63030	P0C214	O15225	-0.18353
63031	P0C214	Q8NI37	-0.19616
63032	P0C214	Q8IYS0	-0.98681
63033	P0C214	Q99062	-1.7275
63034	P0C214	P30626	-0.29231
63035	P0C214	Q9NYW5	-1.3329
63036	P0C214	Q6UX46	-0.91736
63037	P0C214	P36544	-0.77391
63038	P0C214	Q5JS37	-0.91736
63039	P0C214	Q9UHI5	-0.46114
63040	P0C214	Q9UJ72	-0.14525
63041	P0C214	A6NJJ2	-0.22741
63042	P0C214	Q8N0W7	-0.74825
63043	P0C214	Q496F6	-1.0708
63044	P0C214	Q8IVW1	-0.96062
63045	P0C214	P01716	-1.0022
63046	P0C214	O43692	-0.72124
63047	P0C214	Q3B8N5	-0.20798
63048	P0C214	Q6IF82	-1.2952
63049	P0C214	Q99735	-0.64079
63050	P0C214	Q9H0N0	-0.42653
63051	P0C214	P0CG32	-0.5018
63052	P0C214	A8MUX0	-0.030516
63053	P0C214	Q96GA7	-0.098252
63054	P0C214	Q6PEX7	-0.98681
63055	P0C214	Q6ZWC4	-0.072088
63056	P0C214	Q8N8U9	-0.75744
63057	P0C214	Q6IFH4	-1.2952
63058	P0C214	A6NKC0	-0.4589
63059	P0C214	Q8N446	-0.70722
63060	P0C214	Q92622	-0.2771
63061	P0C214	P0CJ92	-0.2859
63062	P0C214	Q8IZU8	-0.9123
63063	P0C214	Q6UXK2	-1.1038
63064	P0C214	Q3KR37	-0.98681
63065	P0C214	P04899	-0.32876
63066	P0C214	Q01629	-0.83469
63067	P0C214	Q01668	-0.6018
63068	P0C214	O75762	-1.0048
63069	P0C214	Q8TC07	-0.58972
63070	P0C214	Q09327	-0.7182
63071	P0C214	Q7Z3B3	-0.22743
63072	P0C214	Q92537	-0.68883
63073	P0C214	O95072	-0.29993
63074	P0C214	O15130	-0.99923
63075	P0C214	Q13017	-0.58889
63076	P0C214	Q8NGP0	-1.2952
63077	P0C214	O43181	-0.096699
63078	P0C214	Q8TBR7	-1.0708
63079	P0C214	P0CJ86	-0.16414
63080	P0C214	Q495X7	-0.71534

63081	P0C214	O95445	-0.91501
63082	P0C214	Q9UIG4	-0.64701
63083	P0C214	Q5T5M9	-0.06773
63084	P0C214	A6NDD2	-0.88056
63085	P0C214	Q5T7P8	-0.65721
63086	P0C214	Q8NFW1	-0.76757
63087	P0C214	Q9P275	-0.42958
63088	P0C214	O14788	-0.59139
63089	P0C214	P15538	-0.27492
63090	P0C214	Q902F8	-0.85122
63091	P0C214	A8MXE2	-0.82935
63092	P0C214	O97980	-0.50624
63093	P0C214	Q8NGT9	-1.2952
63094	P0C214	Q92503	-1.0001
63095	P0C214	Q86UF2	-0.81992
63096	P0C214	Q9BXW6	-0.22741
63097	P0C214	P19634	-0.40798
63098	P0C214	Q12829	-1.0449
63099	P0C214	P02655	-0.55216
63100	P0C214	Q9NZV1	-1.1231
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63102	P0C214	Q16445	-0.87044
63103	P0C214	Q6NVV7	-0.69526
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63106	P0C214	Q5RL73	-0.28388
63107	P0C214	Q96EY9	-0.45753
63108	P0C214	Q07326	-0.86938
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63112	P0C214	Q70J99	-0.2306
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63114	P0C214	P52907	-0.35445
63115	P0C214	P20062	-1.0113
63116	P0C214	Q8NGN0	-1.2952
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63119	P0C214	Q86TA4	-0.43241
63120	P0C214	Q15363	-0.17825
63121	P0C214	P09067	-0.23121
63122	P0C214	Q86VZ5	-0.34255
63123	P0C214	Q01151	-1.0717
63124	P0C214	Q8NBS3	-0.76521
63125	P0C214	P26927	-0.79627
63126	P0C214	P35659	-0.30425
63127	P0C214	O60942	-0.45861
63128	P0C214	Q96DD0	-0.33825
63129	P0C214	Q6P4E1	-0.98681
63130	P0C214	P36406	-0.32346
63131	P0C214	O43194	-1.5255
63132	P0C214	Q0ZLH3	-0.55802
63133	P0C214	Q15019	-0.22698
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63135	P0C214	Q13029	-0.22728
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63141	P0C214	Q9HB15	-1.1424
63142	P0C214	Q93084	-0.71432
63143	P0C214	Q14973	-0.97069
63144	P0C214	P35222	-0.22873
63145	P0C214	A7E2S9	-0.22741
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63147	P0C214	Q99598	-0.23467
63148	P0C214	P56747	-0.86549
63149	P0C214	Q6AZY7	-0.84542
63150	P0C214	Q8WV15	-0.98681
63151	P0C214	Q6IEV9	-1.2952
63152	P0C214	Q9UKF7	-0.37913
63153	P0C214	Q9UQQ2	-0.28847
63154	P0C214	P59861	-0.88056
63155	P0C214	P05154	-0.5146
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63158	P0C214	Q86VF7	-0.52582
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63160	P0C214	Q8NCA5	-0.053266
63161	P0C214	Q86SQ3	-1.3967
63162	P0C214	Q96FB5	-0.89707
63163	P0C214	Q8NGW1	-1.2952
63164	P0C214	O14603	-0.12647
63165	P0C214	P35414	-1.1381
63166	P0C214	Q9P0S2	-0.50793
63167	P0C214	O75146	-0.20181
63168	P0C214	O15033	-0.56318
63169	P0C214	Q99942	-0.26267
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63171	P0C214	Q9UNH6	-0.68393
63172	P0C214	Q8NHC8	-1.2952
63173	P0C214	Q71U36	-0.18165
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63176	P0C214	P47804	-0.92777
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63185	P0C214	P59540	-1.4042
63186	P0C214	P40123	-0.52854
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63192	P0C214	Q9Y2P4	-1.2517
63193	P0C214	O15075	-1.1724
63194	P0C214	A6NHU5	-0.045842
63195	P0C214	Q9UBY5	-1.3551
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63197	P0C214	P51686	-1.3311
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63201	P0C214	Q8N653	-0.22717
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63203	P0C214	Q7Z695	-1.1621
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63206	P0C214	O14975	-0.54863
63207	P0C214	Q96A33	-0.23162
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63209	P0C214	Q5TA82	-0.38015
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63212	P0C214	Q9H2Z4	-0.42888
63213	P0C214	Q8N434	-0.99951
63214	P0C214	Q8WV19	-0.77158
63215	P0C214	Q9Y4F5	-0.21344
63216	P0C214	O95302	-0.43594
63217	P0C214	Q86X29	-0.93837
63218	P0C214	Q6ZP65	-0.10738
63219	P0C214	Q13822	-0.86758
63220	P0C214	Q01955	-0.57244
63221	P0C214	O75438	-0.40654
63222	P0C214	Q12893	-0.49982
63223	P0C214	Q8N9U0	-0.21705
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63225	P0C214	Q9BXB4	-0.96432
63226	P0C214	P33908	-0.63443
63227	P0C214	P46977	-0.37622
63228	P0C214	Q96KN8	-0.17072
63229	P0C214	Q15256	-0.39358
63230	P0C214	A5PLL7	-1.0037
63231	P0C214	Q9P2K8	-0.95241
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63234	P0C214	P0CG36	-1.1133
63235	P0C214	Q6P5Z2	-0.38143
63236	P0C214	Q6IA17	-0.52079
63237	P0C214	Q8IUL8	-0.86413
63238	P0C214	P20264	-0.22741
63239	P0C214	Q9Y5E3	-1.2282
63240	P0C214	Q86WN1	-0.2274
63241	P0C214	Q96EP9	-1.1427
63242	P0C214	P02461	-0.3539
63243	P0C214	A6NFT4	-0.30595
63244	P0C214	Q16568	-0.31279
63245	P0C214	Q8IWB7	-0.22746
63246	P0C214	Q9UHE5	-1.0262
63247	P0C214	P40426	-0.24407
63248	P0C214	F2Z333	-0.98681
63249	P0C214	Q13976	-0.31612
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63251	P0C214	Q5VV63	-1.0099
63252	P0C214	Q5TF21	-0.98681
63253	P0C214	P20336	-0.37512
63254	P0C214	Q8N3J6	-1.2161
63255	P0C214	Q13459	-0.067404
63256	P0C214	Q13206	-0.73213
63257	P0C214	A8MVW0	-0.98681
63258	P0C214	P80370	-0.85648
63259	P0C214	Q9NY30	-0.38428
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63261	P0C214	Q17RP2	-0.21333
63262	P0C214	Q9NX01	-0.12275
63263	P0C214	Q9NZV8	-0.84441
63264	P0C214	Q96DY7	-0.37909
63265	P0C214	A8MX34	-0.19763
63266	P0C214	Q8TCN5	-0.13368
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63269	P0C214	P51888	-0.8501
63270	P0C214	P30495	-1.0367
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63274	P0C214	O15178	-0.34323
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63278	P0C214	Q8NET6	-0.48362
63279	P0C214	Q14330	-1.3112
63280	P0C214	Q6NUI2	-0.48267
63281	P0C214	P28908	-0.78996
63282	P0C214	Q6NT52	-0.89474
63283	P0C214	O15400	-0.95111
63284	P0C214	Q75616	-0.55566
63285	P0C214	Q5TA79	-0.38015
63286	P0C214	P61224	-0.22764
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63288	P0C214	P02812	-0.64701
63289	P0C214	P45379	-0.25902
63290	P0C214	P62070	-0.64796
63291	P0C214	Q8NEC7	-0.18353
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63294	P0C214	P60891	-0.27221
63295	P0C214	Q4VNC0	-1.0065
63296	P0C214	Q6UW02	-0.99601
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63298	P0C214	Q9UGN5	-0.14104
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63300	P0C214	Q99712	-1.311
63301	P0C214	Q9NS40	-1.1168
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63312	P0C214	Q9HC23	-0.9441
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63319	P0C214	P17213	-0.90523
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63325	P0C214	Q96LP6	-0.40121
63326	P0C214	Q9C030	-0.47551
63327	P0C214	Q12913	-0.50298
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63332	P0C214	P02585	-0.22262
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63337	P0C214	Q14055	-0.85653
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63339	P0C214	P14778	-0.99383
63340	P0C214	Q9UI40	-1.0878
63341	P0C214	Q05940	-0.60935
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63374	P0C214	Q15617	-1.2952
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63389	P0C214	P78562	-1.0786
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63391	P0C214	P06280	-0.14344
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63394	P0C214	Q9BQE3	-0.44526
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63396	P0C214	Q5JV73	-0.41401
63397	P0C214	Q99707	-0.12927
63398	P0C214	P09471	-0.78403
63399	P0C214	Q9Y4Z2	-0.22809
63400	P0C214	Q13336	-1.0999
63401	P0C214	P22413	-0.30834
63402	P0C214	A6NDN8	-0.16332
63403	P0C214	Q86TW2	-1.2918
63404	P0C214	P0C7U2	-0.41199
63405	P0C214	Q69YG0	-0.98681
63406	P0C214	O14522	-0.76305
63407	P0C214	Q9BYT9	-1.0454
63408	P0C214	Q6IE36	-0.70605
63409	P0C214	Q8TE59	-1.3603
63410	P0C214	Q9NRX6	-0.79982
63411	P0C214	Q13065	-0.38374
63412	P0C214	P57082	-0.33011
63413	P0C214	Q63HN1	-0.089395
63414	P0C214	Q8IUC8	-0.72252
63415	P0C214	Q7Z2Q7	-0.98681
63416	P0C214	Q86VF2	-0.22758
63417	P0C214	Q96R08	-1.2952
63418	P0C214	Q9Y4U1	-0.15836
63419	P0C214	Q01959	-0.40417
63420	P0C214	Q6YHU6	-0.046181
63421	P0C214	O76001	-1.2952
63422	P0C214	Q5W188	-0.90522
63423	P0C214	Q8NGK3	-1.2952
63424	P0C214	Q9GZN1	-0.23577
63425	P0C214	Q8N5Z0	-0.21828
63426	P0C214	Q2TAC6	-0.67393
63427	P0C214	Q95714	-0.22958
63428	P0C214	Q8NDX1	-0.80431
63429	P0C214	P29274	-0.32741
63430	P0C214	P29120	-0.36128
63431	P0C214	Q8TC57	-0.80851
63432	P0C214	P06311	-1.0022
63433	P0C214	Q8N146	-1.2952
63434	P0C214	Q5GH77	-1.0708
63435	P0C214	Q9P2V4	-0.7459
63436	P0C214	P22310	-0.7913
63437	P0C214	Q9P1Z3	-1.3263
63438	P0C214	O43761	-0.81226
63439	P0C214	Q6IMI4	-0.2773
63440	P0C214	Q01118	-1.1475
63441	P0C214	Q96KT0	-0.23705
63442	P0C214	Q9BYU1	-0.4281
63443	P0C214	Q8NAN2	-0.98681
63444	P0C214	Q8NGC2	-1.2952
63445	P0C214	P09693	-0.89909
63446	P0C214	Q9Y2B1	-1.128
63447	P0C214	Q9UMZ3	-1.1482
63448	P0C214	P49903	-0.95218
63449	P0C214	Q86VZ6	-0.22713
63450	P0C214	P37108	-0.62881
63451	P0C214	P30492	-1.0367
63452	P0C214	P31785	-0.86064
63453	P0C214	Q86YC3	-0.98681
63454	P0C214	O14649	-1.1309
63455	P0C214	Q92876	-0.31678
63456	P0C214	Q8N2K0	-0.87695
63457	P0C214	Q8NGK6	-1.2952
63458	P0C214	Q53H76	-0.87159
63459	P0C214	Q9HAU6	-0.33895
63460	P0C214	Q96M66	-0.82066



63461	P0C214	B8ZZ34	-0.98681
63462	P0C214	Q96KK5	-0.85588
63463	P0C214	A6NLC5	-0.42499
63464	P0C214	P13985	-0.18353
63465	P0C214	P40617	-0.2284
63466	P0C214	B4DS77	-0.99712
63467	P0C214	Q96K19	-1.11
63468	P0C214	P02747	-0.94046
63469	P0C214	P01596	-1.0022
63470	P0C214	Q9NYV4	-0.19021
63471	P0C214	Q5JXX5	-0.97718
63472	P0C214	Q6PEY0	-1.0688
63473	P0C214	Q9P2B2	-0.30965
63474	P0C214	Q3MII6	-0.64909
63475	P0C214	Q6ZT21	-0.89261
63476	P0C214	Q99536	-0.88488
63477	P0C214	P01737	-0.44807
63478	P0C214	Q8N1N5	-0.67481
63479	P0C214	P48169	-0.93151
63480	P0C214	Q9Y5S1	-0.83223
63481	P0C214	P00326	-0.30874
63482	P0C214	P02787	-0.15604
63483	P0C214	Q9Y4R7	-0.41097
63484	P0C214	Q9NZ08	-0.52064
63485	P0C214	Q8IUH5	-0.38701
63486	P0C214	Q2M2D7	-0.96894
63487	P0C214	Q9H2F9	-0.1564
63488	P0C214	P01215	-0.056917
63489	P0C214	Q9GZZ8	-0.51731
63490	P0C214	Q13790	-1.1149
63491	P0C214	Q92832	-0.22746
63492	P0C214	P07951	-0.22279
63493	P0C214	Q9BXY5	-0.43585
63494	P0C214	A6NDU8	-0.31104
63495	P0C214	Q9H1M0	-0.22648
63496	P0C214	Q96GX1	-0.79975
63497	P0C214	Q9BZP6	-0.40005
63498	P0C214	C9JCN9	-0.32744
63499	P0C214	Q8N957	-0.22714
63500	P0C214	Q1HG43	-0.93491
63501	P0C214	Q96KG9	-0.22741
63502	P0C214	P08476	-0.25251
63503	P0C214	Q8NHJ6	-0.59837
63504	P0C214	Q13115	-0.23705
63505	P0C214	Q5XKR4	-0.20158
63506	P0C214	O14511	-1.3296
63507	P0C214	Q13291	-0.29984
63508	P0C214	Q5SNT2	-0.64035
63509	P0C214	O75326	-0.25621
63510	P0C214	P01715	-1.0022
63511	P0C214	Q8IZI9	-0.85666
63512	P0C214	P63124	-0.6957
63513	P0C214	P05091	-0.3605
63514	P0C214	Q4VX76	-0.74691
63515	P0C214	Q16643	-0.67125
63516	P0C214	P35713	-0.32396
63517	P0C214	Q6UWH6	-0.88278
63518	P0C214	O15444	-0.97064
63519	P0C214	Q86Y22	-1.2963
63520	P0C214	Q969S6	-0.98681
63521	P0C214	P38405	-0.94488
63522	P0C214	Q7L099	-0.77942
63523	P0C214	Q7Z6K4	-0.5499
63524	P0C214	Q13285	-0.23008
63525	P0C214	Q01523	-0.77649
63526	P0C214	P04438	-1.0022
63527	P0C214	Q9UEE9	-0.59617
63528	P0C214	Q6UB28	-0.48734
63529	P0C214	Q3SY17	-0.80997
63530	P0C214	Q92522	-0.71574
63531	P0C214	O75015	-1.0152
63532	P0C214	P00441	-0.21401
63533	P0C214	Q8TEU7	-0.81098
63534	P0C214	P23458	-0.51087
63535	P0C214	P20142	-0.67068
63536	P0C214	Q96D42	-0.85336

63537	P0C214	Q96KQ7	-0.22741
63538	P0C214	Q99969	-0.42692
63539	P0C214	Q5T1J6	-0.033839
63540	P0C214	Q5SY68	-0.47015
63541	P0C214	Q6NUI6	-1.0061
63542	P0C214	Q9NYW3	-1.1716
63543	P0C214	P01597	-1.0022
63544	P0C214	P60201	-0.63759
63545	P0C214	Q6UWR7	-1.2738
63546	P0C214	Q8IZ57	-0.8821
63547	P0C214	Q5VYY1	-0.2274
63548	P0C214	Q9UHI7	-0.40564
63549	P0C214	Q8IZN3	-1.0453
63550	P0C214	Q8NGY2	-1.2952
63551	P0C214	Q8N961	-0.35402
63552	P0C214	Q9BQW3	-0.097881
63553	P0C214	P25090	-1.5124
63554	P0C214	Q9BUR5	-1.4559
63555	P0C214	Q8N8D0	-0.98681
63556	P0C214	P16520	-0.37513
63557	P0C214	Q9Y3A6	-0.63801
63558	P0C214	P00492	-0.21195
63559	P0C214	Q8IV38	-0.68003
63560	P0C214	Q75973	-0.57643
63561	P0C214	A6NI72	-0.37677
63562	P0C214	O76050	-0.22736
63563	P0C214	P30550	-1.2582
63564	P0C214	Q53R41	-0.32177
63565	P0C214	O15018	-0.46579
63566	P0C214	A1YPR0	-0.70722
63567	P0C214	Q7L576	-0.20392
63568	P0C214	Q13637	-0.73189
63569	P0C214	Q13685	-0.68025
63570	P0C214	Q9Y4F3	-0.78237
63571	P0C214	Q8N6G2	-0.14235
63572	P0C214	P30411	-0.66707
63573	P0C214	Q86V24	-1.0348
63574	P0C214	P05109	-0.23309
63575	P0C214	Q13641	-1.0359
63576	P0C214	P25098	-0.37355
63577	P0C214	Q2QL34	-0.97088
63578	P0C214	Q5T7W0	-0.22494
63579	P0C214	Q0VG99	-0.22757
63580	P0C214	Q69YJ1	-0.70551
63581	P0C214	Q9UGM1	-0.96708
63582	P0C214	P31025	-1.1874
63583	P0C214	Q9NVM1	-0.98681
63584	P0C214	P35318	-0.2508
63585	P0C214	Q8IZD9	-0.21031
63586	P0C214	P04430	-1.0022
63587	P0C214	Q96EM0	-0.50747
63588	P0C214	Q6NT46	-0.47295
63589	P0C214	P57078	-0.5227
63590	P0C214	Q9NY59	-0.82597
63591	P0C214	Q96GF1	-0.86554
63592	P0C214	Q6ZUT3	-0.61809
63593	P0C214	Q13643	-0.23785
63594	P0C214	Q58HT5	-0.8354
63595	P0C214	O75897	-0.22835
63596	P0C214	O43581	-1.0611
63597	P0C214	P33402	-0.5459
63598	P0C214	Q9NRR2	-1.4912
63599	P0C214	Q96KP4	-0.28211
63600	P0C214	Q13268	-0.21379
63601	P0C214	O75462	-0.22754
63602	P0C214	Q9NZQ9	-0.356
63603	P0C214	Q5Y7A7	-0.71588
63604	P0C214	Q96PZ0	-0.28338
63605	P0C214	Q9NR20	-1.1061
63606	P0C214	Q9H488	-0.19488
63607	P0C214	Q01459	-0.34849
63608	P0C214	Q8NA29	-1.1412
63609	P0C214	Q8WVN6	-1.3932
63610	P0C214	P42566	-0.22745
63611	P0C214	Q9BWW1	-0.53059
63612	P0C214	P30520	-0.43908

63613	P0C214	Q15788	-0.27832
63614	P0C214	Q14213	-0.82662
63615	P0C214	P56748	-0.80928
63616	P0C214	O75431	-0.16988
63617	P0C214	Q15842	-0.83517
63618	P0C214	P38567	-0.54401
63619	P0C214	Q9UL25	-0.38863
63620	P0C214	Q96SZ5	-0.30636
63621	P0C214	P42658	-0.98557
63622	P0C214	O94876	-0.98681
63623	P0C214	Q06643	-0.79765
63624	P0C214	O75592	-0.22623
63625	P0C214	Q7Z6L1	-0.72672
63626	P0C214	Q13972	-0.48673
63627	P0C214	Q6PK18	-1.0002
63628	P0C214	P16949	-0.55351
63629	P0C214	Q9H7C9	-0.14705
63630	P0C214	O43731	-0.66866
63631	P0C214	Q08722	-0.49029
63632	P0C214	Q9H694	-0.68473
63633	P0C214	Q8NFI4	-0.22667
63634	P0C214	Q96KJ4	-1.1636
63635	P0C214	Q96AX9	-0.22735
63636	P0C214	Q5VT25	-0.40268
63637	P0C214	Q9BX97	-0.68587
63638	P0C214	Q6UWY0	-0.62048
63639	P0C214	Q96J92	-0.96117
63640	P0C214	Q8N729	-0.3235
63641	P0C214	Q9NYR9	-0.84929
63642	P0C214	P0C2W1	-0.20657
63643	P0C214	Q13190	-0.20114
63644	P0C214	Q9H1K0	-0.1886
63645	P0C214	Q68DE3	-0.33298
63646	P0C214	Q9P2H5	-0.68518
63647	P0C214	P43361	-0.18353
63648	P0C214	P33527	-0.41077
63649	P0C214	Q9HCE9	-1.1866
63650	P0C214	Q6NUT2	-1.3081
63651	P0C214	Q96JA3	-0.42319
63652	P0C214	Q8NHV5	-0.46481
63653	P0C214	P56178	-0.21858
63654	P0C214	P05060	-0.25409
63655	P0C214	Q15846	-0.80125
63656	P0C214	Q8IVU9	-0.2586
63657	P0C214	Q86YN1	-0.75011
63658	P0C214	Q3KQV9	-0.40419
63659	P0C214	Q9UJ41	-0.23152
63660	P0C214	Q9BZ67	-0.41401
63661	P0C214	Q9P2K2	-0.91366
63662	P0C214	Q5W150	-0.66413
63663	P0C214	P61550	-0.84333
63664	P0C214	Q6DRA6	-0.85588
63665	P0C214	Q9HAK2	-0.16534
63666	P0C214	Q4L235	-0.90288
63667	P0C214	Q9H3S7	-0.23186
63668	P0C214	Q658N2	-0.99947
63669	P0C214	Q92935	-0.94078
63670	P0C214	Q9H9R9	-0.20758
63671	P0C214	Q6AI12	-0.22741
63672	P0C214	Q92834	-0.22441
63673	P0C214	A6NNA5	-0.10607
63674	P0C214	Q96PX6	-0.17918
63675	P0C214	Q8N144	-0.65694
63676	P0C214	Q6UWQ7	-0.91736
63677	P0C214	Q8N8L6	-1.2665
63678	P0C214	P01824	-1.0022
63679	P0C214	Q8NAG6	-0.29363
63680	P0C214	P57105	-0.71699
63681	P0C214	P06213	-0.24504
63682	P0C214	O75937	-0.11721
63683	P0C214	A6NJS3	-0.91736
63684	P0C214	P48448	-0.50777
63685	P0C214	Q5TCH4	-0.67057
63686	P0C214	Q9Y4H2	-0.21779
63687	P0C214	Q5R3K3	-0.98681
63688	P0C214	Q8WVIO	-0.75609

63689	P0C214	P15514	-0.67472
63690	P0C214	Q8N127	-1.2952
63691	P0C214	Q9NRW3	-0.61187
63692	P0C214	P16219	-0.27269
63693	P0C214	P43080	-0.75508
63694	P0C214	Q13489	-0.22741
63695	P0C214	P09488	-0.21633
63696	P0C214	Q8N3R9	-0.22422
63697	P0C214	Q9UKP3	-0.68622
63698	P0C214	O43313	-0.22741
63699	P0C214	Q9UHD0	-0.79499
63700	P0C214	Q9BTN0	-1.1528
63701	P0C214	P41145	-0.89885
63702	P0C214	Q7Z4N2	-1.3696
63703	P0C214	O14682	-0.21026
63704	P0C214	Q9UPY5	-0.8125
63705	P0C214	Q8TCX5	-0.69413
63706	P0C214	Q9Y6G9	-0.2206
63707	P0C214	Q5VXH5	-0.18615
63708	P0C214	P54762	-0.66602
63709	P0C214	Q7RTU9	-0.5812
63710	P0C214	Q9Y6B7	-0.098545
63711	P0C214	O43813	-0.51517
63712	P0C214	O75439	-0.49519
63713	P0C214	P42785	-0.36438
63714	P0C214	Q8N328	-0.21669
63715	P0C214	Q8TCV5	-0.77749
63716	P0C214	Q96KR4	-0.51552
63717	P0C214	O75631	-0.8314
63718	P0C214	Q5QJ38	-0.43585
63719	P0C214	P26951	-0.99762
63720	P0C214	Q969M2	-0.9725
63721	P0C214	Q9NWC5	-0.98681
63722	P0C214	Q9NX74	-0.26402
63723	P0C214	Q9NUC0	-0.017206
63724	P0C214	O75173	-0.81826
63725	P0C214	Q16820	-1.4406
63726	P0C214	P21817	-0.6845
63727	P0C214	O43316	-0.22385
63728	P0C214	Q6DHV7	-0.19898
63729	P0C214	Q96M60	-0.27192
63730	P0C214	Q5VSP4	-0.91736
63731	P0C214	Q8IXL6	-1.121
63732	P0C214	Q8N1E2	-0.80382
63733	P0C214	Q9BUB7	-0.59795
63734	P0C214	Q16690	-0.47729
63735	P0C214	O15529	-1.4957
63736	P0C214	Q6ZNR0	-0.69227
63737	P0C214	Q9Y223	-0.49031
63738	P0C214	Q8TBE9	-0.13854
63739	P0C214	Q969P6	-0.41221
63740	P0C214	Q86UL3	-0.46969
63741	P0C214	Q8NHE4	-0.77077
63742	P0C214	O75955	-0.38836
63743	P0C214	Q9GZP7	-1.2435
63744	P0C214	Q4G0G2	-0.334
63745	P0C214	O75072	-0.38816
63746	P0C214	Q8IW03	-0.22369
63747	P0C214	Q9NXZ2	-0.98215
63748	P0C214	O75752	-0.8473
63749	P0C214	Q9BZF1	-0.96432
63750	P0C214	Q8IYJ1	-0.22911
63751	P0C214	O94979	-0.429
63752	P0C214	Q9NUL5	-0.012873
63753	P0C214	A6NMS3	-1.2952
63754	P0C214	Q7RTP0	-1.074
63755	P0C214	Q13332	-0.77271
63756	P0C214	A2VEC9	-1.0103
63757	P0C214	P25686	-0.22003
63758	P0C214	Q86T13	-0.97467
63759	P0C214	Q92521	-0.81606
63760	P0C214	Q9BQQ7	-0.15093
63761	P0C214	P14679	-0.37125
63762	P0C214	Q9NPR9	-0.98681
63763	P0C214	Q8TDS5	-1.2353
63764	P0C214	O43314	-0.43452

63765	P0C214	Q53H64	-0.35676
63766	P0C214	Q99445	-0.50193
63767	P0C214	Q0P641	-0.37061
63768	P0C214	Q43280	-0.30636
63769	P0C214	Q8WTU2	-0.95759
63770	P0C214	Q8WXD9	-0.36149
63771	P0C214	P07108	-0.35533
63772	P0C214	B7ZBB8	-0.24265
63773	P0C214	Q96LK8	-0.67294
63774	P0C214	Q9NZJ7	-0.26194
63775	P0C214	Q9NPD7	-0.49108
63776	P0C214	Q08629	-0.71786
63777	P0C214	Q9UPX0	-1.0708
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63779	P0C214	P16885	-0.22741
63780	P0C214	Q9H9P8	-0.422
63781	P0C214	Q07617	-0.71978
63782	P0C214	P19235	-1.1202
63783	P0C214	Q96BD6	-0.16174
63784	P0C214	P0C7U0	-0.95344
63785	P0C214	Q6XXX2	-0.21265
63786	P0C214	Q4ADV7	-0.98681
63787	P0C214	Q8NG78	-1.2952
63788	P0C214	Q5TAT6	-1.0176
63789	P0C214	Q6UXX5	-0.76087
63790	P0C214	O14640	-0.096904
63791	P0C214	P78527	-0.41819
63792	P0C214	P01034	-0.25958
63793	P0C214	Q5VU65	-0.98681
63794	P0C214	Q9NVH1	-0.1398
63795	P0C214	Q5T686	-0.34087
63796	P0C214	Q99784	-0.22723
63797	P0C214	Q9BXF9	-0.2838
63798	P0C214	Q9NRK6	-0.99297
63799	P0C214	Q92817	-0.21287
63800	P0C214	P01583	-0.2078
63801	P0C214	Q9NQT8	-0.41991
63802	P0C214	O15439	-0.95624
63803	P0C214	O43570	-0.96155
63804	P0C214	Q1A5X7	-0.04165
63805	P0C214	O43866	-0.8101
63806	P0C214	P02741	-0.82231
63807	P0C214	P0CW27	-0.47535
63808	P0C214	Q5XG92	-0.82426
63809	P0C214	Q8WYK0	-0.1547
63810	P0C214	P10153	-0.85129
63811	P0C214	Q8ND71	-0.17756
63812	P0C214	Q9GZZ0	-0.2274
63813	P0C214	Q8TCT8	-0.67588
63814	P0C214	Q9UKU0	-0.68078
63815	P0C214	P56937	-0.98806
63816	P0C214	Q8N2R0	-0.21663
63817	P0C214	P38571	-0.49642
63818	P0C214	O60353	-0.51739
63819	P0C214	Q07890	-0.22742
63820	P0C214	Q2TBE0	-0.50812
63821	P0C214	P59190	-1.0914
63822	P0C214	O15399	-0.8674
63823	P0C214	P16452	-0.12401
63824	P0C214	Q8IYL9	-1.3445
63825	P0C214	Q9H1M3	-0.88056
63826	P0C214	Q9BVG9	-0.83319
63827	P0C214	Q9H6L2	-0.99437
63828	P0C214	Q0P5N6	-1.2665
63829	P0C214	O75594	-0.72473
63830	P0C214	Q16478	-0.7422
63831	P0C214	P55291	-1.1305
63832	P0C214	Q86Y78	-0.91736
63833	P0C214	Q9UQ88	-0.30177
63834	P0C214	Q9GZS0	-0.231
63835	P0C214	Q9HBB8	-1.1224
63836	P0C214	O14668	-1.5798
63837	P0C214	O95947	-0.47529
63838	P0C214	Q5VX71	-0.98681
63839	P0C214	P59646	-1.1222
63840	P0C214	A4FU69	-0.43585

63841	P0C214	Q5JUR7	-0.27787
63842	P0C214	Q5T1R4	-0.22738
63843	P0C214	Q5T1V6	-0.97389
63844	P0C214	Q9Y2V7	-0.21612
63845	P0C214	Q8WYP3	-0.76538
63846	P0C214	Q13670	-0.39214
63847	P0C214	P0C7M8	-0.97467
63848	P0C214	P28161	-0.28271
63849	P0C214	P01266	-0.57274
63850	P0C214	P51957	-0.52479
63851	P0C214	Q96K80	-0.17931
63852	P0C214	Q8N5I3	-0.14454
63853	P0C214	Q6WQI6	-0.2555
63854	P0C214	P23409	-0.037585
63855	P0C214	P58397	-1.3603
63856	P0C214	Q4G176	-0.77623
63857	P0C214	Q14166	-0.29695
63858	P0C214	Q8TC12	-1.0229
63859	P0C214	P04439	-1.0938
63860	P0C214	Q8IWZ4	-0.71534
63861	P0C214	A8K855	-0.43585
63862	P0C214	P55087	-0.68977
63863	P0C214	Q8N131	-0.97057
63864	P0C214	Q96QS3	-0.15834
63865	P0C214	Q86SQ4	-1.3853
63866	P0C214	O00329	-0.42805
63867	P0C214	P21359	-0.22616
63868	P0C214	Q9UDX4	-1.3284
63869	P0C214	Q92502	-0.84689
63870	P0C214	Q9H310	-0.89898
63871	P0C214	Q2M1Z3	-1.0935
63872	P0C214	P22352	-0.6493
63873	P0C214	Q9BSW7	-0.5886
63874	P0C214	O14798	-0.76447
63875	P0C214	P48960	-1.7579
63876	P0C214	O43237	-0.20759
63877	P0C214	Q96A19	-0.19247
63878	P0C214	Q8TAX7	-0.34385
63879	P0C214	P20292	-0.08827
63880	P0C214	O43653	-0.5764
63881	P0C214	Q9H2A9	-0.63283
63882	P0C214	Q7Z2H8	-0.91716
63883	P0C214	Q86VH2	-0.74871
63884	P0C214	Q8NBP7	-0.3303
63885	P0C214	Q01433	-0.15033
63886	P0C214	P48645	-0.93234
63887	P0C214	Q8NG84	-1.2952
63888	P0C214	Q8WXA3	-0.22697
63889	P0C214	P17301	-0.23831
63890	P0C214	P02649	-0.26654
63891	P0C214	P36507	-0.22777
63892	P0C214	Q969S0	-0.72397
63893	P0C214	Q8N7H1	-0.30652
63894	P0C214	Q96EB6	-0.60733
63895	P0C214	Q9NY46	-0.95635
63896	P0C214	Q9BS16	-0.22013
63897	P0C214	P16410	-0.33689
63898	P0C214	Q9Y271	-1.3479
63899	P0C214	P47890	-1.2952
63900	P0C214	Q8TBE3	-0.98681
63901	P0C214	Q9Y3Q3	-0.6324
63902	P0C214	Q9NRB3	-0.4687
63903	P0C214	Q9BT43	-0.30849
63904	P0C214	Q6IN97	-0.22575
63905	P0C214	Q6P9F7	-0.98681
63906	P0C214	Q9UDX5	-0.65246
63907	P0C214	Q9UMX6	-0.64618
63908	P0C214	P17540	-0.67873
63909	P0C214	Q7Z5H3	-0.26997
63910	P0C214	Q8TF30	-0.24842
63911	P0C214	Q13018	-1.2475
63912	P0C214	O00418	-0.80939
63913	P0C214	Q92543	-0.23419
63914	P0C214	Q17RB8	-0.67205
63915	P0C214	Q9ULL1	-0.79655
63916	P0C214	Q9BZR9	-0.22737

63917	P0C214	Q6UXK5	-0.98681
63918	P0C214	O95544	-0.50906
63919	P0C214	Q0D2I5	-0.077263
63920	P0C214	Q8N8V2	-0.92558
63921	P0C214	Q86W54	-0.16435
63922	P0C214	P35408	-0.59013
63923	P0C214	Q9NNZ3	-0.49579
63924	P0C214	Q9Y2U2	-1.2288
63925	P0C214	Q8NGP6	-1.2952
63926	P0C214	Q8TEZ7	-1.3884
63927	P0C214	O75964	-0.17453
63928	P0C214	O15067	-0.2439
63929	P0C214	Q96M32	-0.42034
63930	P0C214	Q13177	-0.228
63931	P0C214	P06737	-0.10238
63932	P0C214	O75689	-0.22802
63933	P0C214	Q9UQ90	-0.61156
63934	P0C214	Q02817	-0.3368
63935	P0C214	Q9NZC2	-1.2988
63936	P0C214	Q5T4J0	-0.79304
63937	P0C214	P42331	-0.95761
63938	P0C214	O00115	-0.6238
63939	P0C214	P50238	-0.34147
63940	P0C214	Q6ZSJ9	-0.98681
63941	P0C214	Q9HCN3	-1.1106
63942	P0C214	P48060	-1.2305
63943	P0C214	P20718	-0.68726
63944	P0C214	Q86XE0	-0.46674
63945	P0C214	Q9BWT7	-0.20134
63946	P0C214	Q96EX3	-0.2275
63947	P0C214	Q86UF4	-0.59206
63948	P0C214	P11233	-0.24194
63949	P0C214	Q8TDZ2	-0.22743
63950	P0C214	O60469	-0.94037
63951	P0C214	P01569	-0.71883
63952	P0C214	Q9NQU5	-0.4742
63953	P0C214	P11465	-0.69158
63954	P0C214	Q8TAM2	-0.22644
63955	P0C214	P0CG41	-0.98681
63956	P0C214	O43924	-0.028323
63957	P0C214	Q6P4I2	-0.17786
63958	P0C214	A6NKB5	-0.98681
63959	P0C214	Q8WZ74	-0.66006
63960	P0C214	P55073	-0.67359
63961	P0C214	A4D2G3	-1.2952
63962	P0C214	Q07820	-0.22738
63963	P0C214	P51589	-0.53961
63964	P0C214	Q16515	-0.81029
63965	P0C214	P0C7N5	-1.2952
63966	P0C214	Q5VXU1	-1.0708
63967	P0C214	P49685	-1.4303
63968	P0C214	P05177	-0.39134
63969	P0C214	P30954	-1.3492
63970	P0C214	O43291	-0.96432
63971	P0C214	O60427	-0.19675
63972	P0C214	Q99217	-0.76282
63973	P0C214	Q9HCB6	-0.59626
63974	P0C214	Q9Y3I0	-0.50442
63975	P0C214	O94910	-0.89013
63976	P0C214	Q9HCI7	-0.51481
63977	P0C214	Q8NHU6	-0.30652
63978	P0C214	Q8NH05	-1.2952
63979	P0C214	A6NDL7	-0.33624
63980	P0C214	Q8N1N2	-0.98681
63981	P0C214	Q9GZK6	-1.2952
63982	P0C214	Q96H35	-0.83638
63983	P0C214	Q9NR82	-1.1639
63984	P0C214	Q8IUK8	-0.98681
63985	P0C214	P59922	-1.2952
63986	P0C214	P52179	-0.74992
63987	P0C214	O75907	-0.47604
63988	P0C214	Q86SE5	-0.83638
63989	P0C214	Q9NUG6	-0.18225
63990	P0C214	Q9Y5G5	-1.2424
63991	P0C214	A2A3L6	-0.22431
63992	P0C214	P15735	-0.4054

63993	P0C214	Q9ULH0	-0.56105
63994	P0C214	Q9H4B7	-0.62389
63995	P0C214	Q5JRA6	-0.22069
63996	P0C214	Q9H6K4	-0.3474
63997	P0C214	Q8IU89	-0.27663
63998	P0C214	Q8TEW8	-0.22664
63999	P0C214	P00167	-0.41428
64000	P0C214	Q2WQJ8	-0.98681
64001	P0C214	Q8N9I9	-0.29901
64002	P0C214	Q16832	-1.1052
64003	P0C214	Q5MNX9	-0.22739
64004	P0C214	O60683	-0.22746
64005	P0C214	P25774	-1.1916
64006	P0C214	Q9H2C5	-1.2952
64007	P0C214	O95563	-0.80997
64008	P0C214	Q14353	-0.012534
64009	P0C214	Q96Q80	-0.33182
64010	P0C214	Q96J66	-1.331
64011	P0C214	Q9NZM3	-0.6979
64012	P0C214	Q86W47	-0.75569
64013	P0C214	Q5T7M4	-0.85806
64014	P0C214	Q7Z553	-0.60656
64015	P0C214	Q8NGJ9	-1.2952
64016	P0C214	Q9H0Q0	-0.60268
64017	P0C214	Q9Y5S8	-0.40993
64018	P0C214	Q15800	-0.77412
64019	P0C214	Q9H4M7	-0.43653
64020	P0C214	A8MYB1	-0.98681
64021	P0C214	Q96D53	-0.97857
64022	P0C214	Q8IUA0	-0.77749
64023	P0C214	Q9H4A4	-0.90135
64024	P0C214	Q9H0C3	-0.73722
64025	P0C214	P01833	-1.5269
64026	P0C214	Q7Z4M0	-0.51384
64027	P0C214	A8MPY1	-0.80529
64028	P0C214	Q96E52	-0.75693
64029	P0C214	O00626	-0.99149
64030	P0C214	P34969	-1.3201
64031	P0C214	O94901	-0.15021
64032	P0C214	Q96AK3	-0.64535
64033	P0C214	P20851	-0.94332
64034	P0C214	P23946	-1.4765
64035	P0C214	Q8WXS5	-0.93932
64036	P0C214	Q9Y6J3	-0.55184
64037	P0C214	Q9Y4M8	-0.85421
64038	P0C214	Q9NYW4	-1.1937
64039	P0C214	Q86U06	-0.52918
64040	P0C214	Q9BTX3	-0.98681
64041	P0C214	Q12846	-0.24054
64042	P0C214	P63211	-0.72566
64043	P0C214	Q96S99	-0.14827
64044	P0C214	P15090	-0.19169
64045	P0C214	Q9UPM6	-0.32028
64046	P0C214	Q6A555	-0.4604
64047	P0C214	Q9UHL0	-0.51412
64048	P0C214	P51817	-0.60099
64049	P0C214	Q2TAC2	-0.066326
64050	P0C214	C9JVI0	-0.68518
64051	P0C214	Q5H9B9	-0.17949
64052	P0C214	E2RYF7	-0.91736
64053	P0C214	Q9UBI4	-0.67476
64054	P0C214	Q2TV78	-1.1947
64055	P0C214	Q9H228	-1.259
64056	P0C214	Q9UG63	-0.73947
64057	P0C214	A6NNY8	-0.68518
64058	P0C214	P50135	-0.22783
64059	P0C214	O60292	-0.92569
64060	P0C214	Q8IVL8	-1.287
64061	P0C214	Q86WT6	-0.23132
64062	P0C214	Q13162	-0.21322
64063	P0C214	P53671	-1.0606
64064	P0C214	P13987	-0.43507
64065	P0C214	P0CE72	-0.47015
64066	P0C214	Q8N8U3	-0.5018
64067	P0C214	P0CL84	-0.065644
64068	P0C214	Q8N0X4	-0.38162



64069	P0C214	Q9H6T3	-0.22705
64070	P0C214	P0CI26	-0.71534
64071	P0C214	Q8N987	-0.25129
64072	P0C214	Q8IUUF1	-0.79608
64073	P0C214	P12004	-0.19595
64074	P0C214	Q96A57	-0.98681
64075	P0C214	Q8NF37	-0.45839
64076	P0C214	Q8NC42	-1.0581
64077	P0C214	P01189	-0.50207
64078	P0C214	Q6P3W2	-0.38577
64079	P0C214	O60513	-0.49597
64080	P0C214	Q96DX4	-1.0313
64081	P0C214	O95620	-0.44612
64082	P0C214	Q8NGD2	-1.2952
64083	P0C214	O00562	-0.33141
64084	P0C214	Q9Y3Q0	-1.2031
64085	P0C214	P20472	-0.35866
64086	P0C214	P29466	-0.22734
64087	P0C214	Q32M45	-1.0454
64088	P0C214	P49842	-0.76458
64089	P0C214	Q95971	-0.67155
64090	P0C214	Q96LB8	-0.89542
64091	P0C214	P11086	-0.18356
64092	P0C214	P09848	-0.58846
64093	P0C214	Q9Y6U7	-1.0783
64094	P0C214	Q9BUM1	-0.2475
64095	P0C214	Q86UX7	-0.72863
64096	P0C214	Q9BXT2	-1.0808
64097	P0C214	O94985	-1.0251
64098	P0C214	Q6UW01	-0.78007
64099	P0C214	Q9P267	-0.27104
64100	P0C214	Q9H251	-0.55546
64101	P0C214	Q92185	-0.50146
64102	P0C214	Q8WWZ7	-1.0538
64103	P0C214	Q9UJ37	-0.72314
64104	P0C214	Q8TC44	-0.22773
64105	P0C214	P05000	-0.74273
64106	P0C214	A6NIJ5	-0.4589
64107	P0C214	O60641	-0.54716
64108	P0C214	Q06055	-0.90915
64109	P0C214	P61266	-0.90024
64110	P0C214	O00299	-0.19419
64111	P0C214	Q9NV79	-0.12875
64112	P0C214	Q13349	-1.1108
64113	P0C214	Q9H426	-0.3665
64114	P0C214	Q86TV6	-0.22691
64115	P0C214	O43240	-1.3209
64116	P0C214	Q5JPB2	-0.70722
64117	P0C214	Q86WS3	-0.91736
64118	P0C214	Q6ZWJ1	-0.22741
64119	P0C214	C9JLJ4	-0.68518
64120	P0C214	Q14931	-1.221
64121	P0C214	O95470	-0.27443
64122	P0C214	Q8IZ07	-0.22741
64123	P0C214	Q494X1	-0.031785
64124	P0C214	Q9NVP2	-0.26604
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64126	P0C214	O75916	-0.48183
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64128	P0C214	Q96P65	-1.3342
64129	P0C214	Q8TDB8	-0.97489
64130	P0C214	Q8NEX5	-0.91736
64131	P0C214	P10635	-0.30309
64132	P0C214	Q8NGT5	-1.2952
64133	P0C214	O15047	-0.22486
64134	P0C214	O75954	-1.128
64135	P0C214	P03897	-0.2213
64136	P0C214	P01622	-1.0022
64137	P0C214	Q9NPH3	-1.6418
64138	P0C214	Q8WUG5	-1.1687
64139	P0C214	Q9HCS4	-0.17183
64140	P0C214	Q9Y5U8	-0.5302
64141	P0C214	Q8NGM8	-1.2952
64142	P0C214	Q8NH18	-1.2952
64143	P0C214	P06319	-1.0022
64144	P0C214	Q2TAA2	-0.36863

64145	P0C214	Q5HY64	-0.19934
64146	P0C214	Q9Y6I7	-0.23011
64147	P0C214	O15393	-1.6582
64148	P0C214	Q9Y5P2	-0.76288
64149	P0C214	Q8IZE3	-0.22734
64150	P0C214	Q13472	-0.10288
64151	P0C214	Q9BR11	-0.18814
64152	P0C214	Q8N567	-0.54568
64153	P0C214	Q9P0S9	-0.76162
64154	P0C214	Q99653	-0.22724
64155	P0C214	Q9H3T3	-1.185
64156	P0C214	A8MVG2	-0.98681
64157	P0C214	Q9GZN6	-1.1192
64158	P0C214	P0C881	-0.13023
64159	P0C214	Q8IZJ0	-0.85666
64160	P0C214	Q8NH09	-1.2952
64161	P0C214	Q13477	-1.209
64162	P0C214	Q9UN67	-1.2126
64163	P0C214	Q9H3S1	-1.0306
64164	P0C214	Q9BX84	-0.95977
64165	P0C214	Q9NP70	-1.0922
64166	P0C214	P54886	-0.32915
64167	P0C214	Q6N043	-0.22714
64168	P0C214	Q8NGM9	-1.2952
64169	P0C214	Q494V2	-0.53176
64170	P0C214	O75140	-0.55123
64171	P0C214	Q9Y6Q6	-0.28582
64172	P0C214	A2RUR9	-0.099649
64173	P0C214	P0DJJD3	-0.2347
64174	P0C214	P19113	-0.36485
64175	P0C214	Q8WVB3	-0.21616
64176	P0C214	Q8IU68	-1.0037
64177	P0C214	P49189	-0.38802
64178	P0C214	Q9Y5Y9	-1.0043
64179	P0C214	Q8NI22	-0.54085
64180	P0C214	A8MVU1	-0.37677
64181	P0C214	Q8TEU8	-0.69446
64182	P0C214	P0DM48	-0.22697
64183	P0C214	Q3LXA3	-0.72649
64184	P0C214	Q9BVV2	-0.34207
64185	P0C214	P15153	-0.42167
64186	P0C214	P30542	-0.37769
64187	P0C214	Q96MX6	-0.34917
64188	P0C214	O43868	-1.131
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64191	P0C214	Q9UNH7	-0.16042
64192	P0C214	Q8WXJ9	-0.5331
64193	P0C214	Q6UXU1	-0.91736
64194	P0C214	Q99435	-0.47597
64195	P0C214	O14775	-0.40677
64196	P0C214	Q15389	-1.1462
64197	P0C214	Q68DU8	-0.15611
64198	P0C214	Q9NQR9	-0.29698
64199	P0C214	P42167	-0.070405
64200	P0C214	P26842	-0.68278
64201	P0C214	P35858	-0.64945
64202	P0C214	Q9BUP0	-0.22295
64203	P0C214	Q9HBT6	-1.1908
64204	P0C214	Q5VUD6	-1.0037
64205	P0C214	Q7RTY1	-1.0965
64206	P0C214	Q9Y303	-0.23503
64207	P0C214	Q13395	-0.30661
64208	P0C214	P51671	-0.91795
64209	P0C214	Q13627	-0.33529
64210	P0C214	Q96G30	-0.41036
64211	P0C214	Q53EL9	-0.92513
64212	P0C214	O95235	-0.32866
64213	P0C214	O75553	-0.46348
64214	P0C214	P10319	-1.0367
64215	P0C214	O60721	-0.80502
64216	P0C214	Q8NOV1	-0.10163
64217	P0C214	Q5FYB1	-0.57898
64218	P0C214	Q9NSD5	-1.1312
64219	P0C214	P40189	-0.43002
64220	P0C214	Q9H3Z4	-0.37292

64221	P0C214	Q4AC94	-0.34831
64222	P0C214	P80188	-0.35216
64223	P0C214	P22234	-0.087853
64224	P0C214	P35070	-1.1166
64225	P0C214	Q13239	-0.22741
64226	P0C214	P09382	-0.49588
64227	P0C214	O43187	-0.22738
64228	P0C214	Q9UHG0	-0.45524
64229	P0C214	P02743	-0.74138
64230	P0C214	Q7RTS6	-0.98681
64231	P0C214	O94822	-0.13653
64232	P0C214	P78314	-0.22736
64233	P0C214	A2VDF0	-0.29795
64234	P0C214	P0C7U9	-0.98681
64235	P0C214	Q9Y5H1	-1.2424
64236	P0C214	Q9H8Y5	-0.21056
64237	P0C214	Q86Z23	-0.96884
64238	P0C214	P52848	-0.3694
64239	P0C214	Q7Z6J2	-0.22922
64240	P0C214	P08217	-1.4261
64241	P0C214	Q9NRE2	-0.40904
64242	P0C214	Q12851	-0.36964
64243	P0C214	Q6DHY5	-1.2827
64244	P0C214	Q9P121	-0.22821
64245	P0C214	Q8TAX9	-0.20758
64246	P0C214	Q9BS91	-0.85407
64247	P0C214	Q9Y2A9	-0.58535
64248	P0C214	P0CJ89	-0.16414
64249	P0C214	Q86SZ3	-0.71593
64250	P0C214	P23771	-0.22738
64251	P0C214	Q9NQE7	-0.87695
64252	P0C214	Q8N104	-0.88056
64253	P0C214	Q8N2C9	-0.036748
64254	P0C214	Q8IW00	-1.0708
64255	P0C214	P78333	-0.95259
64256	P0C214	P12643	-0.22741
64257	P0C214	O15062	-0.21995
64258	P0C214	Q6Y2X3	-0.32804
64259	P0C214	Q9P265	-0.21654
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64262	P0C214	Q8NA56	-0.067582
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64264	P0C214	O43143	-0.39715
64265	P0C214	Q96PT4	-0.19191
64266	P0C214	P15692	-0.30171
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64269	P0C214	P98161	-0.28771
64270	P0C214	Q9Y6A5	-0.10906
64271	P0C214	Q8NB37	-0.91736
64272	P0C214	O95249	-0.48241
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64274	P0C214	P80075	-1.0318
64275	P0C214	Q9UBR4	-0.22884
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64279	P0C214	Q8N960	-0.18848
64280	P0C214	Q96L34	-0.46486
64281	P0C214	P52798	-0.52971
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64283	P0C214	Q96NU0	-1.3356
64284	P0C214	Q8NCS7	-0.79755
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64286	P0C214	Q9UK17	-1.142
64287	P0C214	Q8NC38	-0.096308
64288	P0C214	P05013	-0.57352
64289	P0C214	Q29960	-1.3017
64290	P0C214	Q9Y466	-0.22952
64291	P0C214	Q9BV38	-0.638
64292	P0C214	Q15034	-0.41099
64293	P0C214	P0CB46	-0.80739
64294	P0C214	Q14112	-0.71574
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64327	P0C214	Q29983	-0.66011
64328	P0C214	Q32Q52	-0.45868
64329	P0C214	Q15916	-0.20496
64330	P0C214	Q5T0B9	-0.083723
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64333	P0C214	Q6N021	-0.47222
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64336	P0C214	Q16281	-1.4736
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64353	P0C214	P16403	-0.7011
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64360	P0C214	Q2TAY7	-0.22795
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64407	P0C214	P18085	-0.31842
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64410	P0C214	P31751	-0.12508
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64438	P0C214	Q6UXN9	-0.56019
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64440	P0C214	P54289	-1.033
64441	P0C214	Q9UM01	-1.1304
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64445	P0C214	P43657	-1.3112
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64448	P0C214	Q7Z713	-0.22741

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64451	P0C214	O75690	-0.50416
64452	P0C214	Q15455	-0.27293
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64460	P0C214	O43808	-0.33513
64461	P0C214	P15529	-0.70404
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64466	P0C214	Q00973	-0.63914
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64469	P0C214	P61619	-0.87592
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64476	P0C214	Q8WVP7	-0.96404
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64479	P0C214	Q9HAD4	-0.22741
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64483	P0C214	P08861	-1.4406
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64487	P0C214	O15353	-0.362
64488	P0C214	Q6ZMT1	-0.58962
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64492	P0C214	P09960	-0.33973
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64496	P0C214	Q30201	-0.65073
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64515	P0C214	Q9HC07	-0.87155
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64517	P0C214	O43252	-0.55028
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64519	P0C214	Q86YW5	-0.28417
64520	P0C214	P58400	-0.62455
64521	P0C214	Q0P6H9	-0.98681
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64523	P0C214	A6NF89	-1.2952
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64596	P0C214	O75526	-0.22727
64597	P0C214	P50224	-0.23587
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64600	P0C214	P50443	-1.2343

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64603	P0C214	O95786	-0.22677
64604	P0C214	P05187	-1.0991
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64606	P0C214	P22607	-0.35677
64607	P0C214	Q9P2K9	-0.61479
64608	P0C214	Q99973	-0.41366
64609	P0C214	O15554	-0.50617
64610	P0C214	P78423	-0.51211
64611	P0C214	Q7L775	-0.33805
64612	P0C214	P09172	-0.41923
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64615	P0C214	Q9P2E5	-0.43842
64616	P0C214	Q6IS24	-0.78421
64617	P0C214	P59051	-0.13316
64618	P0C214	Q96EX1	-0.98681
64619	P0C214	Q8NGY7	-1.2952
64620	P0C214	Q7RTY9	-1.0193
64621	P0C214	Q9NY47	-0.81465
64622	P0C214	Q9H267	-0.16515
64623	P0C214	P01719	-1.0022
64624	P0C214	Q09470	-0.93953
64625	P0C214	P61803	-0.76771
64626	P0C214	Q9Y6I0	-0.6957
64627	P0C214	Q15517	-0.85179
64628	P0C214	Q9Y4C4	-0.23181
64629	P0C214	O94929	-0.26698
64630	P0C214	P01780	-1.0022
64631	P0C214	P18564	-1.235
64632	P0C214	Q6UXV1	-0.98681
64633	P0C214	Q92610	-0.014401
64634	P0C214	Q6P4A7	-1.0147
64635	P0C214	Q02338	-0.22468
64636	P0C214	Q6PI25	-0.43437
64637	P0C214	Q149M9	-0.79608
64638	P0C214	Q5T753	-0.38015
64639	P0C214	P09669	-0.47996
64640	P0C214	P35250	-0.19614
64641	P0C214	P15104	-0.29591
64642	P0C214	P13598	-1.2251
64643	P0C214	P12644	-0.22741
64644	P0C214	P17706	-0.24736
64645	P0C214	Q9UBH0	-0.80399
64646	P0C214	Q96A99	-0.96015
64647	P0C214	Q9H300	-0.75608
64648	P0C214	Q9Y566	-0.22743
64649	P0C214	Q8IXH8	-1.2424
64650	P0C214	P40937	-0.21781
64651	P0C214	Q9BWF3	-0.23247
64652	P0C214	Q5SW96	-0.22727
64653	P0C214	Q9H9V9	-0.1953
64654	P0C214	Q9BYH1	-1.0037
64655	P0C214	Q8TF08	-0.69638
64656	P0C214	Q5T013	-0.31169
64657	P0C214	Q8WUJ0	-0.485
64658	P0C214	Q9Y2F5	-0.36453
64659	P0C214	Q9Y4B4	-0.46212
64660	P0C214	Q86X24	-0.43877
64661	P0C214	Q9UHF1	-1.109
64662	P0C214	Q6P6B7	-0.22742
64663	P0C214	Q9HCM3	-0.98681
64664	P0C214	Q4G0S4	-0.59135
64665	P0C214	Q86YQ2	-1.0961
64666	P0C214	Q8N4X5	-0.26613
64667	P0C214	Q9P281	-0.51359
64668	P0C214	P35609	-0.74251
64669	P0C214	Q8NBP5	-1.113
64670	P0C214	Q9BR09	-0.17074
64671	P0C214	Q9C0K0	-0.22689
64672	P0C214	P19961	-0.74541
64673	P0C214	Q9Y6L7	-1.54
64674	P0C214	P06276	-0.57025
64675	P0C214	Q6UWJ1	-1.1366
64676	P0C214	Q96LP4	-0.60102



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64678	P0C214	Q86VZ2	-0.28436
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64681	P0C214	Q15061	-0.22752
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64684	P0C214	P53367	-0.15526
64685	P0C214	Q8TB36	-0.5142
64686	P0C214	Q9C0C9	-0.67194
64687	P0C214	Q8NGR3	-1.2952
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64689	P0C214	Q8NGJ7	-1.2952
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64691	P0C214	Q96PF1	-0.43778
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64694	P0C214	Q7LC44	-0.51305
64695	P0C214	Q9Y2Q5	-0.46368
64696	P0C214	Q0VDI3	-0.98681
64697	P0C214	Q15270	-0.22707
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64700	P0C214	Q9C0E8	-1.0447
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64702	P0C214	P47901	-1.0281
64703	P0C214	P10966	-0.83616
64704	P0C214	P61163	-0.023078
64705	P0C214	Q16609	-0.64701
64706	P0C214	Q8NGG1	-1.2259
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64708	P0C214	Q96S21	-0.85591
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64713	P0C214	Q96F44	-0.22925
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64715	P0C214	P54277	-0.068313
64716	P0C214	Q8NGI8	-1.2952
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64718	P0C214	Q9NWX5	-0.2274
64719	P0C214	Q9NSA1	-0.3042
64720	P0C214	P48449	-0.31012
64721	P0C214	Q8NGE1	-1.2952
64722	P0C214	Q92997	-0.16998
64723	P0C214	Q68D06	-0.971
64724	P0C214	Q8NEC5	-0.72863
64725	P0C214	Q9H2R5	-1.4261
64726	P0C214	Q9C0C7	-0.22745
64727	P0C214	A8MYJ7	-0.13206
64728	P0C214	Q9NRC6	-0.23122
64729	P0C214	Q9H1R3	-0.36518
64730	P0C214	O94898	-0.87046
64731	P0C214	P62685	-0.45806
64732	P0C214	Q6ZMN8	-0.39247
64733	P0C214	A6NMZ7	-1.2262
64734	P0C214	Q8NB16	-0.22741
64735	P0C214	Q6UY13	-0.91736
64736	P0C214	Q86TY3	-0.98681
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64738	P0C214	B3KVV0	-0.98681
64739	P0C214	Q9UNE2	-0.31356
64740	P0C214	Q9BXA7	-1.3135
64741	P0C214	Q9H898	-0.53447
64742	P0C214	O00144	-0.81022
64743	P0C214	P26436	-0.63516
64744	P0C214	P43629	-1.1811
64745	P0C214	P01774	-1.0022
64746	P0C214	Q9NTU4	-0.40411
64747	P0C214	P06731	-0.6521
64748	P0C214	Q9BVI0	-0.28443
64749	P0C214	Q8N556	-0.47473
64750	P0C214	Q9Y2Y4	-0.24205
64751	P0C214	P35368	-0.79856
64752	P0C214	Q8NAT1	-0.90836

64753	P0C214	Q5VZ72	-0.99724
64754	P0C214	Q96HJ5	-0.2114
64755	P0C214	Q685J3	-0.68302
64756	P0C214	Q8IUH2	-0.79014
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64758	P0C214	P01703	-1.0022
64759	P0C214	Q9GZK3	-1.2952
64760	P0C214	Q15223	-0.47868
64761	P0C214	Q8NH92	-1.2952
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64764	P0C214	Q6PIV7	-0.80997
64765	P0C214	Q8WXF3	-0.85183
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64767	P0C214	Q16566	-0.31434
64768	P0C214	Q15218	-1.3466
64769	P0C214	Q9UF72	-0.91736
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64773	P0C214	P0CG05	-0.99256
64774	P0C214	O00124	-0.40818
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64778	P0C214	P14598	-0.24832
64779	P0C214	P37268	-0.70905
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64783	P0C214	P58005	-0.092751
64784	P0C214	O95944	-1.305
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64788	P0C214	P34130	-0.72265
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64799	P0C214	P17643	-0.38644
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64804	P0C214	Q6UXT9	-0.82426
64805	P0C214	P22570	-0.079843
64806	P0C214	Q9UGU5	-0.24321
64807	P0C214	Q6ZRF8	-0.71534
64808	P0C214	Q0P140	-0.35515
64809	P0C214	Q15389	-0.49371
64810	P0C214	Q7Z3U7	-0.16198
64811	P0C214	P03928	-0.50375
64812	P0C214	O95822	-0.23808
64813	P0C214	Q8WUH6	-0.98681
64814	P0C214	Q5JX69	-0.98681
64815	P0C214	O43915	-0.54126
64816	P0C214	A6NL26	-1.2952
64817	P0C214	Q86W10	-1.0581
64818	P0C214	P06313	-1.0022
64819	P0C214	Q5T0J3	-0.32831
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64821	P0C214	Q9NT22	-0.82556
64822	P0C214	Q9BRY0	-1.0906
64823	P0C214	Q5I0X7	-0.43972
64824	P0C214	Q9BQT8	-0.60901
64825	P0C214	Q9HC84	-0.54762
64826	P0C214	P98175	-0.49898
64827	P0C214	Q52LJ0	-0.38316
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64831	P0C214	Q8N9M5	-0.62928
64832	P0C214	Q3KNW1	-0.20314
64833	P0C214	Q8N6L7	-0.98681
64834	P0C214	Q13614	-0.22181
64835	P0C214	Q96J88	-0.54225
64836	P0C214	P29322	-1.1997
64837	P0C214	P51178	-0.2721
64838	P0C214	Q8TE56	-1.3603
64839	P0C214	O60503	-0.97986
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64841	P0C214	P49758	-0.63295
64842	P0C214	P30480	-1.0367
64843	P0C214	P78356	-0.22149
64844	P0C214	P03951	-0.73029
64845	P0C214	P11766	-0.19923
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64847	P0C214	P17844	-0.49841
64848	P0C214	Q8WZ71	-0.98681
64849	P0C214	Q13445	-0.40154
64850	P0C214	Q06033	-0.7148
64851	P0C214	O43921	-0.37059
64852	P0C214	Q8TAK6	-0.22744
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64854	P0C214	Q96PX8	-1.0742
64855	P0C214	Q9NY26	-1.0892
64856	P0C214	Q76B58	-0.62618
64857	P0C214	Q9NVE7	-0.72671
64858	P0C214	P31323	-0.22739
64859	P0C214	P01711	-1.0022
64860	P0C214	P58181	-1.2952
64861	P0C214	Q63HN8	-0.73607
64862	P0C214	Q13202	-0.48073
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64864	P0C214	P53539	-0.1551
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64868	P0C214	P42830	-0.91621
64869	P0C214	P78382	-0.59266
64870	P0C214	Q569K4	-0.39712
64871	P0C214	P58304	-0.22696
64872	P0C214	P0DJD4	-0.53354
64873	P0C214	Q9H987	-0.29368
64874	P0C214	Q9HAT0	-0.54206
64875	P0C214	Q9P272	-0.39362
64876	P0C214	Q8IWB9	-1.0675
64877	P0C214	Q96PY5	-0.22615
64878	P0C214	Q9C0K1	-1.118
64879	P0C214	Q9NWZ3	-0.2273
64880	P0C214	Q9BSC4	-0.21409
64881	P0C214	Q8NFT6	-0.15724
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64883	P0C214	O60779	-0.69731
64884	P0C214	Q9NY97	-0.40632
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64887	P0C214	C9JJH3	-0.68518
64888	P0C214	O15428	-0.2274
64889	P0C214	P36382	-1.0539
64890	P0C214	Q96LW4	-0.41014
64891	P0C214	Q69YU5	-0.91736
64892	P0C214	Q13067	-0.60816
64893	P0C214	Q06828	-0.85878
64894	P0C214	Q6PIW4	-0.35185
64895	P0C214	Q15075	-0.21744
64896	P0C214	Q99612	-0.22484
64897	P0C214	P10696	-0.7546
64898	P0C214	Q6P2I3	-0.47245
64899	P0C214	Q9BU20	-1.0658
64900	P0C214	O60240	-0.40967
64901	P0C214	P56749	-0.848
64902	P0C214	Q8N456	-0.3317
64903	P0C214	Q9H1Q7	-0.32696
64904	P0C214	Q99665	-0.92922

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64907	P0C214	Q01851	-0.2274
64908	P0C214	Q8N4H5	-0.57743
64909	P0C214	Q8NGQ4	-1.2952
64910	P0C214	Q7Z7G1	-0.55818
64911	P0C214	Q9H867	-0.16971
64912	P0C214	Q9UFP1	-0.91736
64913	P0C214	Q9H871	-0.13967
64914	P0C214	O75787	-0.38812
64915	P0C214	Q9BZJ0	-0.12173
64916	P0C214	A8MW95	-0.20397
64917	P0C214	Q2M1P5	-0.39751
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64919	P0C214	P0DJ93	-0.98681
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64922	P0C214	Q8WYL5	-0.29812
64923	P0C214	C9JJ37	-0.21869
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64925	P0C214	P61225	-0.72997
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64927	P0C214	P16035	-0.87261
64928	P0C214	Q8N608	-1.1561
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64932	P0C214	Q15121	-0.64422
64933	P0C214	Q86YS6	-1.0384
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64936	P0C214	Q13421	-0.49385
64937	P0C214	Q2WGN9	-0.52301
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64940	P0C214	P01374	-0.66356
64941	P0C214	Q8NE09	-0.61728
64942	P0C214	Q9NZ94	-0.37482
64943	P0C214	Q96C57	-0.32023
64944	P0C214	Q6ZW05	-0.67466
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64946	P0C214	Q8IZK6	-1.1877
64947	P0C214	Q9NYW1	-1.1716
64948	P0C214	Q8TDY3	-0.23577
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64951	P0C214	Q8NGZ0	-1.2952
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64953	P0C214	Q92536	-1.1114
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64955	P0C214	P27539	-0.67335
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64957	P0C214	Q5T6R2	-0.32478
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64963	P0C214	Q96KV7	-0.22783
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64965	P0C214	O75795	-0.89236
64966	P0C214	P49279	-0.43295
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64969	P0C214	Q8IZC4	-0.78128
64970	P0C214	Q70CQ3	-0.94072
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64973	P0C214	Q6PIY7	-0.36972
64974	P0C214	Q7Z419	-0.15678
64975	P0C214	P0CJ88	-0.16414
64976	P0C214	Q9BQ39	-0.38946
64977	P0C214	Q96P66	-1.3693
64978	P0C214	Q16760	-0.63255
64979	P0C214	Q6ZS30	-0.22741
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64981	P0C214	P06331	-1.0022
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64983	P0C214	P0C263	-1.2407
64984	P0C214	P24557	-0.72679
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65002	P0C214	A6NK97	-1.1214
65003	P0C214	Q6ZTQ4	-1.2424
65004	P0C214	Q8IYS4	-1.225
65005	P0C214	Q96M89	-0.2351
65006	P0C214	Q6UX01	-1.1319
65007	P0C214	Q8WVZ7	-1.0519
65008	P0C214	Q15843	-0.22283
65009	P0C214	P47989	-0.34557
65010	P0C214	Q9BYT3	-0.789
65011	P0C214	Q86WB7	-0.88899
65012	P0C214	Q9NY91	-1.0901
65013	P0C214	Q99731	-0.45855
65014	P0C214	Q8IV50	-0.38318
65015	P0C214	P08253	-0.67894
65016	P0C214	Q9BY07	-1.0975
65017	P0C214	P61599	-0.18367
65018	P0C214	Q9H0Z9	-0.23331
65019	P0C214	O94826	-0.22706
65020	P0C214	Q9P2E2	-0.42235
65021	P0C214	Q8IZF6	-1.3853
65022	P0C214	Q5W0U4	-0.23732
65023	P0C214	Q9H3G5	-0.70707
65024	P0C214	P17658	-0.98724
65025	P0C214	Q96B96	-0.98681
65026	P0C214	O95157	-0.88948
65027	P0C214	Q96J87	-0.3709
65028	P0C214	P81408	-0.84841
65029	P0C214	Q9HB90	-0.78246
65030	P0C214	Q14773	-1.5565
65031	P0C214	Q96KK3	-0.55311
65032	P0C214	Q0IIN9	-0.10274
65033	P0C214	Q70EL4	-0.68518
65034	P0C214	P16070	-0.29519
65035	P0C214	Q9H2G2	-1.0504
65036	P0C214	Q6PF15	-0.22199
65037	P0C214	Q7Z304	-0.90851
65038	P0C214	Q9WJR5	-0.33459
65039	P0C214	P50416	-0.35948
65040	P0C214	Q9NQW5	-0.24025
65041	P0C214	Q8N5W9	-0.36474
65042	P0C214	P10588	-0.24051
65043	P0C214	Q7Z469	-0.80997
65044	P0C214	Q96L03	-0.21919
65045	P0C214	Q6XE38	-0.91736
65046	P0C214	Q70EK9	-0.79619
65047	P0C214	Q8NH69	-1.2952
65048	P0C214	Q8N4E7	-0.061732
65049	P0C214	Q9BW19	-0.37475
65050	P0C214	Q8WTR2	-0.54345
65051	P0C214	Q15080	-0.61553
65052	P0C214	Q8N6L0	-0.97806
65053	P0C214	Q8IVW8	-1.1733
65054	P0C214	Q12882	-0.26338
65055	P0C214	Q6QEF8	-0.43756
65056	P0C214	Q3SXY7	-0.98681

65057	P0C214	Q8TB45	-0.22741
65058	P0C214	Q9P2G9	-0.20643
65059	P0C214	A6NFC9	-1.2952
65060	P0C214	A4D256	-0.74745
65061	P0C214	P0C671	-0.18188
65062	P0C214	Q9UBT2	-0.209
65063	P0C214	Q8N130	-0.98181
65064	P0C214	Q9BQS7	-1.183
65065	P0C214	Q8N5P1	-0.1667
65066	P0C214	Q6UWP2	-1.3244
65067	P0C214	Q8NGC5	-1.2952
65068	P0C214	P36776	-0.16666
65069	P0C214	Q8NGH5	-1.2952
65070	P0C214	Q9NR30	-0.33389
65071	P0C214	P61566	-0.85122
65072	P0C214	Q9UKN1	-0.95733
65073	P0C214	Q6ZN66	-0.90266
65074	P0C214	Q6IQ19	-0.39699
65075	P0C214	Q6P3W7	-0.22741
65076	P0C214	Q7Z7C7	-0.29092
65077	P0C214	P02778	-0.77816
65078	P0C214	Q14549	-0.22726
65079	P0C214	Q30KQ8	-0.88056
65080	P0C214	Q86Y30	-0.91736
65081	P0C214	Q16769	-1.197
65082	P0C214	Q01780	-0.074901
65083	P0C214	P98173	-0.64701
65084	P0C214	D6RA61	-0.68518
65085	P0C214	Q9NS28	-0.64002
65086	P0C214	Q92187	-0.47859
65087	P0C214	Q96PQ7	-0.21319
65088	P0C214	O75027	-0.81447
65089	P0C214	Q8IZU3	-0.21951
65090	P0C214	Q9Y274	-0.38632
65091	P0C214	Q00325	-0.90072
65092	P0C214	Q5TGI4	-0.22759
65093	P0C214	O75031	-0.11468
65094	P0C214	Q95196	-0.61827
65095	P0C214	P52797	-0.64268
65096	P0C214	Q5VZV4	-0.23403
65097	P0C214	Q9P253	-0.10244
65098	P0C214	Q17RQ9	-0.98681
65099	P0C214	Q96AY3	-0.36406
65100	P0C214	Q9H479	-0.53757
65101	P0C214	P06732	-0.47196
65102	P0C214	O43716	-0.39606
65103	P0C214	Q9NX58	-0.14519
65104	P0C214	P29459	-0.15637
65105	P0C214	O14559	-0.27346
65106	P0C214	Q9NVP4	-0.71534
65107	P0C214	B2RN74	-1.2952
65108	P0C214	O60462	-0.74712
65109	P0C214	O43674	-0.42419
65110	P0C214	Q7Z7J7	-0.98681
65111	P0C214	Q96R84	-1.2952
65112	P0C214	Q96MT1	-1.0783
65113	P0C214	O00219	-0.73198
65114	P0C214	Q8NBN3	-0.98681
65115	P0C214	P0DJD7	-1.1989
65116	P0C214	Q03692	-1.0394
65117	P0C214	B2RXF5	-0.21509
65118	P0C214	A8MT70	-0.71534
65119	P0C214	P28332	-0.21099
65120	P0C214	P10632	-0.55348
65121	P0C214	P02776	-0.59007
65122	P0C214	Q5TG30	-0.86358
65123	P0C214	Q86T03	-0.98597
65124	P0C214	P14616	-1.3993
65125	P0C214	Q96P09	-0.47651
65126	P0C214	A6NKF9	-0.98681
65127	P0C214	Q5MNZ6	-0.22664
65128	P0C214	Q9P0J7	-0.7458
65129	P0C214	Q8N628	-1.2952
65130	P0C214	Q8NEG5	-0.30831
65131	P0C214	Q8IVF4	-0.7095
65132	P0C214	P35613	-0.22742

65133	P0C214	Q8N967	-0.98681
65134	P0C214	Q9BY84	-0.43789
65135	P0C214	O75293	-0.38037
65136	P0C214	Q9Y487	-0.40749
65137	P0C214	P08648	-0.35101
65138	P0C214	Q7Z403	-1.0037
65139	P0C214	Q8WTQ1	-0.88056
65140	P0C214	Q9UNN8	-0.33069
65141	P0C214	Q8N7P7	-1.1286
65142	P0C214	Q9BPW5	-1.1356
65143	P0C214	Q6UY14	-0.32784
65144	P0C214	P0C6C1	-0.22741
65145	P0C214	P07305	-0.46725
65146	P0C214	Q8NFP7	-0.24807
65147	P0C214	Q8IW52	-1.0742
65148	P0C214	Q9Y493	-1.1761
65149	P0C214	Q9Y5G6	-1.2424
65150	P0C214	Q9Y336	-1.3053
65151	P0C214	O95785	-0.40351
65152	P0C214	Q96JP5	-0.20022
65153	P0C214	Q9Y2G4	-0.2274
65154	P0C214	P49418	-0.2274
65155	P0C214	O43676	-0.42419
65156	P0C214	Q9NZ71	-0.68953
65157	P0C214	O15034	-0.50697
65158	P0C214	Q8N111	-0.98681
65159	P0C214	Q16585	-0.74697
65160	P0C214	Q9Y573	-0.30272
65161	P0C214	Q5VY80	-0.60483
65162	P0C214	O00311	-0.30691
65163	P0C214	Q9UBM1	-0.38815
65164	P0C214	O43462	-0.86551
65165	P0C214	Q14526	-0.48361
65166	P0C214	Q8TAD4	-0.50741
65167	P0C214	Q9H7T0	-1.1532
65168	P0C214	P08254	-0.80044
65169	P0C214	Q96RD2	-1.2952
65170	P0C214	A1L1A6	-0.98681
65171	P0C214	P16499	-0.42169
65172	P0C214	P51813	-0.67166
65173	P0C214	Q9HBD1	-0.44925
65174	P0C214	Q5FWF7	-0.22148
65175	P0C214	Q8IUXX4	-0.42487
65176	P0C214	Q96MD7	-0.19841
65177	P0C214	P49798	-0.28849
65178	P0C214	O94804	-0.64443
65179	P0C214	O75074	-0.95778
65180	P0C214	Q9NRP0	-0.92102
65181	P0C214	Q9H6E4	-0.91736
65182	P0C214	Q6UX71	-0.52704
65183	P0C214	O95970	-0.22831
65184	P0C214	Q8NGE2	-1.2952
65185	P0C214	Q9NWB1	-0.28058
65186	P0C214	Q16473	-0.22743
65187	P0C214	A8MXQ7	-0.22741
65188	P0C214	Q9NP59	-0.47246
65189	P0C214	Q96MC6	-1.113
65190	P0C214	Q15431	-0.25375
65191	P0C214	Q8N136	-0.58155
65192	P0C214	P84550	-0.056118
65193	P0C214	Q96RF0	-0.37625
65194	P0C214	Q86X19	-0.99437
65195	P0C214	Q9Y2I2	-0.29855
65196	P0C214	Q9H078	-0.50281
65197	P0C214	Q86UD7	-1.2827
65198	P0C214	Q29865	-1.0367
65199	P0C214	Q6UW10	-0.91736
65200	P0C214	Q15283	-0.3839
65201	P0C214	A2A2V5	-0.98681
65202	P0C214	Q8WTU0	-0.54994
65203	P0C214	Q9Y6Q1	-0.39339
65204	P0C214	Q9NW15	-1.1314
65205	P0C214	Q9C0H2	-1.1078
65206	P0C214	Q04656	-0.22761
65207	P0C214	Q9Y520	-0.37348
65208	P0C214	Q9P2D6	-0.1018

65209	P0C214	P08684	-0.50371
65210	P0C214	Q6UXG8	-0.98681
65211	P0C214	P01213	-0.8979
65212	P0C214	Q16877	-0.13955
65213	P0C214	P04085	-0.27998
65214	P0C214	Q5VYM1	-0.24647
65215	P0C214	Q96KG7	-0.90937
65216	P0C214	Q8N271	-1.0606
65217	P0C214	Q86UQ4	-1.3439
65218	P0C214	Q5SRN2	-0.98681
65219	P0C214	O76074	-0.34926
65220	P0C214	P48230	-0.91359
65221	P0C214	P48506	-0.18345
65222	P0C214	P41271	-0.66729
65223	P0C214	Q8NGY6	-1.2952
65224	P0C214	Q6UWF7	-0.91736
65225	P0C214	P28288	-0.55234
65226	P0C214	Q8WVX9	-0.93141
65227	P0C214	Q13946	-0.22303
65228	P0C214	O15503	-0.46175
65229	P0C214	Q7Z333	-0.2356
65230	P0C214	P19086	-0.8915
65231	P0C214	Q96K21	-0.50512
65232	P0C214	Q7RTX1	-1.3293
65233	P0C214	P63136	-0.33459
65234	P0C214	Q9GZT6	-0.75609
65235	P0C214	P02652	-0.32505
65236	P0C214	P10321	-1.0367
65237	P0C214	P48145	-0.79765
65238	P0C214	P49447	-0.92887
65239	P0C214	Q2M1V0	-0.1907
65240	P0C214	Q8IV35	-0.22759
65241	P0C214	P63145	-0.45806
65242	P0C214	P43026	-0.44342
65243	P0C214	Q5VWK0	-0.20758
65244	P0C214	Q9H4Q3	-0.22712
65245	P0C214	P50876	-0.94072
65246	P0C214	Q6PEY1	-0.98681
65247	P0C214	Q96EK2	-0.50512
65248	P0C214	O60844	-0.76737
65249	P0C214	P30825	-1.2217
65250	P0C214	Q01813	-0.2545
65251	P0C214	Q96R69	-1.2952
65252	P0C214	Q7L513	-0.83208
65253	P0C214	Q9NR61	-0.96858
65254	P0C214	P49190	-1.474
65255	P0C214	P37059	-1.0617
65256	P0C214	O75110	-0.87581
65257	P0C214	Q92616	-0.22527
65258	P0C214	Q9C0G0	-0.083723
65259	P0C214	Q8IWU6	-0.32495
65260	P0C214	P09038	-0.31443
65261	P0C214	O60271	-0.1657
65262	P0C214	P47898	-1.1951
65263	P0C214	P57103	-0.88115
65264	P0C214	Q01344	-0.54021
65265	P0C214	E9PGG2	-0.22934
65266	P0C214	Q96AG4	-0.97093
65267	P0C214	Q01740	-0.66425
65268	P0C214	Q9Y6Q9	-0.44185
65269	P0C214	Q9BQR3	-1.4261
65270	P0C214	P78536	-0.32247
65271	P0C214	P38570	-1.1527
65272	P0C214	Q92765	-0.65522
65273	P0C214	Q6P2C0	-0.32822
65274	P0C214	A6NNM8	-0.31355
65275	P0C214	Q9H628	-1.1356
65276	P0C214	P56645	-0.22677
65277	P0C214	Q8IUH4	-0.9429
65278	P0C214	Q96B45	-0.23604
65279	P0C214	Q9BXC0	-1.322
65280	P0C214	Q8N4F0	-1.0961
65281	P0C214	Q9UFC0	-0.4289
65282	P0C214	Q9NP56	-0.3254
65283	P0C214	P07949	-0.69404
65284	P0C214	Q9H2Y9	-1.1281



65285	P0C214	P0C2S0	-0.96345
65286	P0C214	Q16181	-0.22259
65287	P0C214	Q5VT52	-0.38303
65288	P0C214	P12110	-0.4853
65289	P0C214	Q13002	-0.57787
65290	P0C214	P01610	-1.0022
65291	P0C214	Q96FL9	-0.5869
65292	P0C214	Q5VXU3	-0.54036
65293	P0C214	P01574	-0.40379
65294	P0C214	Q9BV35	-0.83715
65295	P0C214	Q8IXB1	-0.23027
65296	P0C214	Q7Z3B0	-0.98681
65297	P0C214	Q9HC58	-1.1269
65298	P0C214	Q8IXF9	-1.0569
65299	P0C214	Q9NZ09	-0.20758
65300	P0C214	H3BPM6	-0.99425
65301	P0C214	Q76NI1	-0.66031
65302	P0C214	Q4V9L6	-0.68883
65303	P0C214	Q2T9J0	-0.69044
65304	P0C214	Q6ZMC9	-0.98681
65305	P0C214	Q96MH7	-0.25397
65306	P0C214	Q9NX57	-0.90499
65307	P0C214	Q567V2	-0.75609
65308	P0C214	Q9H1E1	-0.67155
65309	P0C214	Q96LM9	-0.23567
65310	P0C214	O75185	-0.63289
65311	P0C214	O75380	-0.044964
65312	P0C214	Q86UP6	-0.7053
65313	P0C214	Q8TB96	-1.4408
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65315	P0C214	P16619	-1.0336
65316	P0C214	Q9NP50	-0.40129
65317	P0C214	P67812	-0.74218
65318	P0C214	P49223	-0.77749
65319	P0C214	Q5QGS0	-0.31977
65320	P0C214	Q8IZJ3	-0.80122
65321	P0C214	P15018	-0.36377
65322	P0C214	Q6TDP4	-0.5678
65323	P0C214	Q5T6X4	-0.98681
65324	P0C214	Q8NGV7	-1.2952
65325	P0C214	P17509	-0.23363
65326	P0C214	O60658	-0.22714
65327	P0C214	Q96M43	-0.20758
65328	P0C214	P16444	-0.45081
65329	P0C214	P01709	-1.0022
65330	P0C214	O15254	-0.3516
65331	P0C214	Q6PJI9	-0.22739
65332	P0C214	Q96A22	-0.0039072
65333	P0C214	Q8NHS3	-0.5448
65334	P0C214	A1A519	-0.71534
65335	P0C214	A6NNX1	-0.54206
65336	P0C214	Q9BSE4	-0.81658
65337	P0C214	Q96F25	-0.91313
65338	P0C214	Q96CS7	-0.57278
65339	P0C214	P27352	-0.98147
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65345	P0C214	P57679	-0.83075
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65348	P0C214	Q8NBJ9	-1.0234
65349	P0C214	Q14699	-0.58913
65350	P0C214	Q8NCC5	-0.97443
65351	P0C214	Q8NE79	-0.85284
65352	P0C214	A8MQ27	-0.29901
65353	P0C214	P29965	-0.91926
65354	P0C214	Q7Z309	-0.65684
65355	P0C214	Q7Z3E1	-0.43361
65356	P0C214	Q969V4	-0.2838
65357	P0C214	Q6ZP80	-0.98681
65358	P0C214	Q9NQZ7	-0.84691
65359	P0C214	O75936	-0.30465
65360	P0C214	P10643	-0.88144

65361	P0C214	O95208	-0.33447
65362	P0C214	Q6ZVX9	-0.98681
65363	P0C214	Q9Y287	-0.12128
65364	P0C214	P22612	-0.41097
65365	P0C214	Q9NZN3	-0.41988
65366	P0C214	Q9Y4A0	-0.2543
65367	P0C214	Q96MS0	-1.0424
65368	P0C214	Q8NGK9	-1.2952
65369	P0C214	Q96S06	-0.70138
65370	P0C214	O15480	-0.072846
65371	P0C214	Q9Y5E1	-1.2126
65372	P0C214	P86790	-0.64424
65373	P0C214	Q6ZTW0	-0.53075
65374	P0C214	Q9NQ94	-0.26173
65375	P0C214	A6NCS6	-0.077922
65376	P0C214	Q6UXE8	-0.68883
65377	P0C214	Q9NRM0	-0.78627
65378	P0C214	Q6UY01	-0.22741
65379	P0C214	Q9NZH6	-0.20938
65380	P0C214	Q99956	-0.58093
65381	P0C214	P55103	-0.73774
65382	P0C214	A8MW99	-0.59488
65383	P0C214	Q9H967	-0.22705
65384	P0C214	Q495Y7	-0.063885
65385	P0C214	P29536	-0.20626
65386	P0C214	Q9BVC5	-0.27901
65387	P0C214	Q96CX6	-0.23451
65388	P0C214	O60895	-0.25119
65389	P0C214	P42679	-0.3575
65390	P0C214	Q7LDI9	-0.45806
65391	P0C214	Q92854	-0.53352
65392	P0C214	Q9BV23	-0.7049
65393	P0C214	O43488	-0.22187
65394	P0C214	Q8NG80	-1.1265
65395	P0C214	O00192	-0.22939
65396	P0C214	Q6ZNG9	-0.23284
65397	P0C214	A6NNS2	-1.2007
65398	P0C214	Q9BUD6	-1.0644
65399	P0C214	Q15276	-0.11084
65400	P0C214	Q5VV52	-0.53447
65401	P0C214	Q9P2P6	-0.38358
65402	P0C214	O15118	-0.61292
65403	P0C214	Q5VYS8	-0.43836
65404	P0C214	Q12809	-0.72133
65405	P0C214	P17600	-0.49991
65406	P0C214	Q6UXB4	-0.36246
65407	P0C214	P47736	-0.18748
65408	P0C214	O75159	-0.22734
65409	P0C214	Q8IUE6	-0.85588
65410	P0C214	Q8WWR9	-0.13706
65411	P0C214	Q9NQV8	-0.42879
65412	P0C214	Q8N6M8	-0.22351
65413	P0C214	Q9H853	-0.6552
65414	P0C214	Q8NBV4	-0.57778
65415	P0C214	Q6P988	-0.84626
65416	P0C214	Q12965	-0.085306
65417	P0C214	P06858	-0.37578
65418	P0C214	Q8N4C8	-0.56759
65419	P0C214	O75718	-0.94183
65420	P0C214	A6NKK0	-1.2952
65421	P0C214	O76096	-0.70856
65422	P0C214	Q5JU00	-0.22706
65423	P0C214	Q8IVU3	-0.2834
65424	P0C214	A6NMC2	-0.18615
65425	P0C214	Q9UGF7	-1.2952
65426	P0C214	Q9NPA2	-1.3644
65427	P0C214	Q5VTT2	-0.98681
65428	P0C214	Q9BRP9	-0.38121
65429	P0C214	Q9HAC7	-0.32204
65430	P0C214	Q9H9S5	-1.0401
65431	P0C214	Q6ZMG9	-0.23549
65432	P0C214	O60269	-0.47779
65433	P0C214	A8MXJ8	-0.4589
65434	P0C214	Q8TBB5	-0.22386
65435	P0C214	P07998	-0.21299
65436	P0C214	A4UGR9	-0.37618

65437	P0C214	Q5SZD1	-0.23294
65438	P0C214	Q08462	-0.7531
65439	P0C214	Q9Y5P1	-1.2952
65440	P0C214	Q9UNK4	-0.7773
65441	P0C214	Q9BVQ7	-0.79094
65442	P0C214	Q8IWL2	-1.0234
65443	P0C214	Q6P656	-0.1728
65444	P0C214	Q5SZB4	-0.092979
65445	P0C214	Q9ULV0	-0.15135
65446	P0C214	Q9NPY3	-0.46429
65447	P0C214	A6NDY0	-0.63654
65448	P0C214	Q8NFM5	-0.39206
65449	P0C214	Q96RA2	-1.0222
65450	P0C214	Q14155	-0.31678
65451	P0C214	Q5W186	-0.90522
65452	P0C214	Q9Y5X9	-0.72446
65453	P0C214	Q70CQ4	-0.68518
65454	P0C214	Q96R47	-1.2952
65455	P0C214	Q43561	-0.62693
65456	P0C214	P52735	-0.22741
65457	P0C214	Q96I23	-0.34165
65458	P0C214	Q5VZP5	-0.66239
65459	P0C214	P54793	-0.62048
65460	P0C214	P16519	-0.27487
65461	P0C214	O76000	-1.2952
65462	P0C214	Q2WEN9	-0.919
65463	P0C214	P09327	-0.18191
65464	P0C214	Q95425	-0.24838
65465	P0C214	Q15649	-0.29101
65466	P0C214	O00141	-0.46203
65467	P0C214	Q01628	-0.85768
65468	P0C214	Q5T2N8	-0.95254
65469	P0C214	Q15049	-0.27632
65470	P0C214	Q96QH2	-0.25893
65471	P0C214	Q9C0G6	-0.7095
65472	P0C214	A6NJ16	-0.91736
65473	P0C214	Q8N4L1	-0.98681
65474	P0C214	O00482	-0.23039
65475	P0C214	Q8TE58	-1.3603
65476	P0C214	Q96MN5	-0.21491
65477	P0C214	Q9BVJ7	-0.22741
65478	P0C214	P48357	-1.0552
65479	P0C214	Q9Y4X4	-0.22339
65480	P0C214	Q9HCY8	-0.24966
65481	P0C214	Q9ULX5	-0.60339
65482	P0C214	Q9UKI2	-0.57051
65483	P0C214	Q1L6U9	-0.91736
65484	P0C214	Q96HP8	-0.98681
65485	P0C214	Q9NR33	-0.072134
65486	P0C214	Q8NGT7	-1.2952
65487	P0C214	O95747	-1.1912
65488	P0C214	P31268	-0.4767
65489	P0C214	Q6ISS4	-0.91736
65490	P0C214	Q8NH87	-1.2952
65491	P0C214	O00339	-0.3233
65492	P0C214	Q8NEQ5	-0.98681
65493	P0C214	Q9UBU2	-1.019
65494	P0C214	Q9UKT6	-0.37589
65495	P0C214	P16284	-0.40706
65496	P0C214	P51659	-0.43146
65497	P0C214	Q49AH0	-0.80596
65498	P0C214	Q15231	-0.37011
65499	P0C214	P02745	-0.37457
65500	P0C214	Q14126	-0.92495
65501	P0C214	Q5T2Q4	-0.41202
65502	P0C214	Q5VVB8	-1.0772
65503	P0C214	O60880	-0.22741
65504	P0C214	Q8NAC3	-1.0197
65505	P0C214	Q9Y3M8	-0.22994
65506	P0C214	A6NCI4	-0.91736
65507	P0C214	Q96DZ5	-0.71499
65508	P0C214	Q9Y577	-0.2365
65509	P0C214	Q86YV0	-0.54886
65510	P0C214	O00526	-1.1662
65511	P0C214	A6NDV4	-0.2383
65512	P0C214	P78508	-0.67842

65513	P0C214	Q86UR5	-0.30778
65514	P0C214	P12109	-0.93498
65515	P0C214	Q8N6N3	-0.20232
65516	P0C214	Q9NVZ3	-0.60296
65517	P0C214	Q96PE1	-1.2093
65518	P0C214	Q53HC9	-0.22705
65519	P0C214	Q9ULI2	-0.60466
65520	P0C214	Q15415	-0.521
65521	P0C214	A8MUN3	-0.91736
65522	P0C214	Q14184	-0.52951
65523	P0C214	Q9HD67	-0.44171
65524	P0C214	P40967	-0.87148
65525	P0C214	P17900	-0.45649
65526	P0C214	Q12864	-1.1141
65527	P0C214	P52306	-0.61671
65528	P0C214	P36956	-0.22727
65529	P0C214	Q6IC83	-0.7652
65530	P0C214	P13765	-1.0575
65531	P0C214	Q8N9F7	-0.68586
65532	P0C214	Q9H6Y7	-0.23321
65533	P0C214	Q8NBM8	-0.90069
65534	P0C214	P01743	-1.0022
65535	P0C214	Q75603	-0.2593
65536	P0C214	P04062	-0.30855
65537	P0C214	P28300	-0.29288
65538	P0C214	O95390	-0.56311
65539	P0C214	Q9GZM6	-1.2952
65540	P0C214	P00451	-0.23871
65541	P0C214	P01241	-0.21444
65542	P0C214	P20853	-0.72807
65543	P0C214	Q6UWS5	-0.38466
65544	P0C214	P00797	-0.82393
65545	P0C214	O60383	-0.52893
65546	P0C214	Q8N5T2	-1.2827
65547	P0C214	Q16655	-0.29163
65548	P0C214	Q8NGA8	-1.2952
65549	P0C214	P47710	-0.99181
65550	P0C214	Q6ZMH5	-1.0394
65551	P0C214	Q8TD07	-0.50085
65552	P0C214	P50897	-0.26553
65553	P0C214	Q9H158	-1.2636
65554	P0C214	O95147	-0.82398
65555	P0C214	Q9H222	-0.65469
65556	P0C214	Q9Y6Q3	-0.23511
65557	P0C214	Q8NH73	-1.2952
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65559	P0C214	O75676	-0.20552
65560	P0C214	Q9UBT6	-0.2022
65561	P0C214	Q9UK85	-1.0232
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65564	P0C214	P01699	-1.0022
65565	P0C214	P0C1H6	-0.62459
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65567	P0C214	Q2TB10	-0.22727
65568	P0C214	Q14D33	-0.98681
65569	P0C214	Q9Y6C9	-0.80997
65570	P0C214	Q5JUQ0	-0.16976
65571	P0C214	Q9TQE0	-0.57171
65572	P0C214	Q86X27	-0.82592
65573	P0C214	Q8N9V6	-0.22741
65574	P0C214	Q13085	-0.2831
65575	P0C214	P05113	-0.22593
65576	P0C214	Q9BYF1	-0.96935
65577	P0C214	P54709	-0.72922
65578	P0C214	A6NGK3	-0.29561
65579	P0C214	P0C0P6	-0.87541
65580	P0C214	Q9H1P3	-0.83993
65581	P0C214	Q86TE4	-0.91736
65582	P0C214	Q8NCE2	-0.21371
65583	P0C214	Q14919	-0.15937
65584	P0C214	Q6QN14	-0.39034
65585	P0C214	Q5BKT4	-0.837
65586	P0C214	O95834	-0.54807
65587	P0C214	Q8N6Y2	-0.80089
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65598	P0C214	P78539	-0.66689
65599	P0C214	Q9GZX3	-0.49221
65600	P0C214	Q8NH59	-1.2952
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65602	P0C214	Q12772	-0.22729
65603	P0C214	Q16653	-1.2176
65604	P0C214	Q9Y2L6	-0.36551
65605	P0C214	Q13191	-0.22741
65606	P0C214	A8MX76	-1.0212
65607	P0C214	P00995	-0.2272
65608	P0C214	Q96LZ7	-0.43482
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65610	P0C214	P22749	-0.82265
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65612	P0C214	Q9Y5G1	-1.2424
65613	P0C214	Q66K37	-0.2259
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65616	P0C214	P07225	-0.66348
65617	P0C214	Q6NUJ1	-1.0393
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65619	P0C214	Q86WC6	-0.22741
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65623	P0C214	Q96R09	-1.2952
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65628	P0C214	Q01064	-0.22369
65629	P0C214	P51805	-1.0291
65630	P0C214	Q2KHR3	-1.1392
65631	P0C214	Q9Y6R7	-0.22597
65632	P0C214	Q14469	-0.22592
65633	P0C214	Q9H156	-1.0742
65634	P0C214	Q8NCL8	-0.68883
65635	P0C214	P35916	-0.56235
65636	P0C214	Q96PT3	-0.16581
65637	P0C214	Q7Z3S9	-1.0026
65638	P0C214	P05496	-0.68975
65639	P0C214	Q15111	-0.57073
65640	P0C214	Q9NQV6	-0.083723
65641	P0C214	P25106	-1.1317
65642	P0C214	Q8WZ69	-0.55137
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65644	P0C214	Q8NHC7	-1.2952
65645	P0C214	Q14607	-0.32092
65646	P0C214	Q9Y2H5	-0.52301
65647	P0C214	Q14642	-0.50527
65648	P0C214	Q15475	-0.22755
65649	P0C214	Q8N386	-0.98681
65650	P0C214	P51148	-0.84042
65651	P0C214	Q96FE7	-0.90842
65652	P0C214	Q8NC44	-0.91465
65653	P0C214	Q9Y426	-0.32447
65654	P0C214	Q9UH62	-0.86201
65655	P0C214	A8MRT5	-0.98681
65656	P0C214	P11487	-0.33571
65657	P0C214	Q95168	-0.44582
65658	P0C214	Q96SF2	-0.63891
65659	P0C214	Q5GH73	-0.98681
65660	P0C214	Q15090	-0.2202
65661	P0C214	Q8NEN9	-0.33086
65662	P0C214	Q562E7	-0.42739
65663	P0C214	Q00203	-0.19145
65664	P0C214	Q6UWB1	-1.025

65665	P0C214	C9J1S8	-0.71534
65666	P0C214	Q86VU5	-0.59877
65667	P0C214	P01608	-1.0022
65668	P0C214	P21291	-0.23864
65669	P0C214	A6NNL5	-0.91736
65670	P0C214	Q9UBS0	-0.65936
65671	P0C214	P00751	-1.334
65672	P0C214	Q8NH16	-1.1265
65673	P0C214	Q14571	-0.54161
65674	P0C214	Q8TDX6	-0.40503
65675	P0C214	Q9BQ08	-0.69092
65676	P0C214	P32238	-0.73398
65677	P0C214	Q8IYX1	-1.2827
65678	P0C214	Q96RS6	-0.1398
65679	P0C214	Q7Z7B0	-0.21912
65680	P0C214	Q5EB52	-0.93368
65681	P0C214	Q8N3I7	-0.33792
65682	P0C214	Q69YQ0	-0.22748
65683	P0C214	Q6P5S7	-0.71093
65684	P0C214	P63129	-0.6957
65685	P0C214	Q15417	-0.51359
65686	P0C214	Q14993	-1.2083
65687	P0C214	Q6ZRI8	-0.86358
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65689	P0C214	P05814	-0.93661
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65691	P0C214	P30203	-1.2432
65692	P0C214	P08582	-0.64609
65693	P0C214	Q8WVE6	-0.98681
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65707	P0C214	Q96GW7	-0.7456
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65712	P0C214	O75264	-0.98681
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65717	P0C214	P52945	-0.56251
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65721	P0C214	Q9UNW1	-0.4038
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65735	P0C214	Q96DW6	-0.77
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65741	P0C214	P55201	-0.22463
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65750	P0C214	P12107	-0.80093
65751	P0C214	Q9H0X9	-1.1175
65752	P0C214	Q5U651	-0.24769
65753	P0C214	Q12929	-0.22741
65754	P0C214	Q9BYW1	-0.91973
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65757	P0C214	Q9NX36	-0.43259
65758	P0C214	Q9H2A3	-0.22811
65759	P0C214	Q6P179	-1.1564
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65766	P0C214	P08754	-0.35673
65767	P0C214	Q9Y267	-1.0166
65768	P0C214	O43895	-0.86686
65769	P0C214	O94813	-0.27545
65770	P0C214	Q8TDX9	-0.78031
65771	P0C214	Q9P217	-0.50512
65772	P0C214	P54750	-0.22486
65773	P0C214	Q9NR81	-0.35579
65774	P0C214	A6NE52	-0.22746
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65776	P0C214	P58876	-0.85588
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65779	P0C214	O00555	-0.3115
65780	P0C214	Q96QE3	-0.63642
65781	P0C214	D6R9N7	-0.68518
65782	P0C214	P0DH78	-0.50512
65783	P0C214	Q7Z408	-1.0708
65784	P0C214	Q9NRJ1	-0.41009
65785	P0C214	Q9H1R2	-0.27726
65786	P0C214	O00142	-0.42402
65787	P0C214	Q14651	-0.37263
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65790	P0C214	Q8IWX7	-0.22711
65791	P0C214	Q5BKU6	-0.12279
65792	P0C214	Q8TE77	-0.39536
65793	P0C214	Q9NYW2	-1.1716
65794	P0C214	P80419	-0.91671
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65800	P0C214	O43353	-0.22741
65801	P0C214	Q5SY80	-0.98681
65802	P0C214	Q6UX53	-0.39362
65803	P0C214	Q9Y337	-0.83056
65804	P0C214	Q9BZX4	-0.29309
65805	P0C214	Q8NBU5	-0.56386
65806	P0C214	Q92952	-0.93952
65807	P0C214	P12429	-0.42237
65808	P0C214	Q99757	-0.24745
65809	P0C214	P78332	-0.83295
65810	P0C214	Q8N112	-0.98681
65811	P0C214	P36941	-0.28443
65812	P0C214	Q9H511	-0.20176
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66258	P03383	Q9NR64	-0.48143
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66269	P03383	Q13017	-0.78259
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66272	P03383	Q9C0I9	-0.22801

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66281	P03383	Q93063	-0.55665
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67082	P03383	Q5SW96	-0.22729
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67085	P03383	O75038	-0.41293
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67088	P03383	Q9UIW2	-0.66628
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67095	P03383	O43526	-0.81559
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67500	P03383	Q9NWX5	-0.27737
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67508	P03383	B4DJY2	-0.86137
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67511	P03383	Q71H61	-0.84057
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67516	P03383	Q2M243	-0.042333
67517	P03383	Q587J8	-0.33371
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67524	P03383	Q5KU26	-0.63189
67525	P03383	Q8IWU5	-0.51353
67526	P03383	Q7RTT4	-0.16991
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67536	P03383	P22894	-1.2481
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67543	P03383	Q16206	-1.0656
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68771	P03383	P28799	-0.25697
68772	P03383	Q14119	-0.10299
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68774	P03383	Q06710	-0.22713
68775	P03383	Q6NUJ1	-0.97115
68776	P03383	P53680	-0.15819
68777	P03383	Q6XPR3	-0.95132
68778	P03383	Q9NZM6	-0.95205
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68780	P03383	Q96KN2	-1.1503

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68788	P03383	P06850	-0.4728
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68796	P03383	P63124	-0.67565
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70043	P03383	P05455	-0.46795
70044	P03383	Q7Z6I6	-1.0002
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70046	P03383	Q9H158	-1.1553
70047	P03383	Q8TD91	-0.14139
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70054	P03383	Q96R48	-1.1027
70055	P03383	P30872	-1.1107
70056	P03383	Q8NCC5	-0.74011
70057	P03383	Q96PD5	-0.85601
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70459	P03383	O95490	-1.0173
70460	P03383	O43502	-0.20157
70461	P03383	Q01113	-1.3555
70462	P03383	Q15303	-0.22741
70463	P03383	Q9BXW4	-0.065262
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70465	P03383	P48444	-0.14996
70466	P03383	Q96QR1	-0.8331
70467	P03383	Q8N100	-0.2284
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70470	P03383	Q8WXX5	-0.47218
70471	P03383	Q99612	-0.22571
70472	P03383	Q13242	-0.22688
70473	P03383	Q8NC38	-0.05928
70474	P03383	Q86UQ4	-1.1035
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70492	P03383	Q96SM3	-1.3157
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70494	P03383	P0C7Q3	-0.12536
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70583	P03383	Q6UX06	-0.94283
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73410	P03383	P09038	-0.28911
73411	P03383	O15123	-0.47456
73412	P03383	P57057	-0.74011
73413	P03383	P48357	-0.85029
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73415	P03383	Q9P275	-0.34958
73416	P03383	P23921	-0.15962

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73418	P03383	Q86UF2	-0.67504
73419	P03383	Q9BXL6	-0.51456
73420	P03383	F5H4A9	-0.86584
73421	P03383	Q14494	-0.26941
73422	P03383	O95876	-0.49052
73423	P03383	Q15393	-0.15154
73424	P03383	O95563	-0.73185
73425	P03383	Q9Y6M5	-0.72385
73426	P03383	Q9H6Q3	-0.22741
73427	P03383	Q7Z3B3	-0.16836
73428	P03383	Q16654	-0.35202
73429	P03383	A6NCX1	-0.16376
73430	P03383	O00408	-0.22622
73431	P03383	Q9Y2W3	-0.62407
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73433	P03383	Q9H213	-0.28091
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73435	P03383	P29120	-0.3643
73436	P03383	F8WBI6	-0.35868
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73442	P03383	Q96S53	-0.56698
73443	P03383	P45954	-0.48992
73444	P03383	Q5VU36	-0.86584
73445	P03383	Q8WXI2	-0.4485
73446	P03383	Q96GW7	-0.78711
73447	P03383	Q9P0B6	-0.86584
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73454	P03383	Q8WVB3	-0.19242
73455	P03383	Q7Z6K5	-0.0254
73456	P03383	Q8N8E2	-0.25496
73457	P03383	Q8TDT2	-1.1721
73458	P03383	Q96JB6	-0.53889
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73466	P03383	Q5VZ18	-0.22741
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73469	P03383	Q96AA8	-0.32231
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73471	P03383	P27701	-0.54753
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73487	P03383	P43115	-1.0087
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73501	P03383	Q9Y215	-0.24502
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73505	P03383	Q86VV4	-0.60236
73506	P03383	O60224	-0.11499
73507	P03383	B2RC85	-0.14886
73508	P03383	Q8N3P4	-0.52332
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73510	P03383	P30301	-0.90729
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73522	P03383	Q9NR45	-0.32995
73523	P03383	P19525	-0.34494
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73525	P03383	Q6NUK1	-0.78496
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73527	P03383	Q96EP0	-0.20391
73528	P03383	Q6UWE0	-0.2276
73529	P03383	Q9H0I9	-0.53665
73530	P03383	Q8NGS9	-1.1027
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73546	P03383	Q9UBY0	-0.98063
73547	P03383	Q9NYQ6	-0.90699
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73579	P03383	Q9NYG8	-1.0473
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74244	P03383	Q9UDW3	-0.17887
74245	P03383	Q96I99	-0.67227
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74247	P03383	Q92529	-0.22741
74248	P03383	Q96D21	-0.94485
74249	P03383	Q8N6K0	-0.86584
74250	P03383	Q6IPT4	-0.59653
74251	P03383	Q9BQP7	-0.30763
74252	P03383	Q9QC07	-0.48794

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74263	P03383	Q96JN2	-0.74159
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74266	P03383	Q7L5N7	-0.68732
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74268	P03383	Q14974	-0.22741
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74271	P03383	Q9UP95	-0.96471
74272	P03383	Q96RT7	-0.20665
74273	P03383	P50454	-0.27701
74274	P03383	Q86XT4	-0.68348
74275	P03383	Q6ZVK1	-0.86584
74276	P03383	Q9H6Y5	-0.22692
74277	P03383	Q9H792	-0.35909
74278	P03383	Q15614	-1.1027
74279	P03383	Q8IW75	-0.65259
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74281	P03383	P47985	-0.94517
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74285	P03383	P60852	-1.155
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74291	P03383	P15515	-0.29506
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74296	P03383	Q01629	-0.76864
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74661	P03383	Q9UKN1	-0.83525
74662	P03383	O75592	-0.22648
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74665	P03383	Q86X52	-0.72755
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74667	P03383	Q15537	-0.98761
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74670	P03383	P31997	-0.8033
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74673	P03383	Q5VXU9	-0.34406
74674	P03383	O75995	-0.22737
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74676	P03383	Q86VE3	-0.41082
74677	P03383	A8MYX2	-0.22658
74678	P03383	Q96MI6	-0.28641
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74687	P03383	Q8NBS9	-0.28459
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74690	P03383	Q16763	-0.31232
74691	P03383	Q9Y2Q3	-0.67303
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74694	P03383	P50135	-0.15965
74695	P03383	P06756	-0.31157
74696	P03383	Q9NPL8	-0.74159
74697	P03383	Q504Q3	-0.065644
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74702	P03383	A8MT33	-0.42171
74703	P03383	Q8N8Q8	-0.51259
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74754	P03383	Q01780	-0.2156
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74757	P03383	P29074	-0.31052
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74773	P03383	Q96MT0	-0.38834
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75488	P03383	O60721	-0.66125
75489	P03383	Q5TA79	-0.43006
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75494	P03383	Q9NRG1	-0.48019
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75497	P03383	Q96T68	-0.32933
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75505	P03383	Q9NSD7	-1.2438
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75523	P03383	Q9H000	-0.60353
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75538	P03383	Q9BW83	-1.0033
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75928	P03383	Q86V40	-1.086
75929	P03383	P16860	-0.49898
75930	P03383	Q9H939	-0.30274
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76359	P03383	Q6P093	-1.1644
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76373	P03383	Q9BYW2	-0.22629
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76376	P03383	Q95822	-0.46673
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78438	P03383	P10966	-0.72449
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78443	P03383	Q15077	-1.0462
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78447	P03383	Q8TBP0	-1.2307
78448	P03383	P43354	-0.24028
78449	P03383	Q9Y2H9	-0.40235
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78453	P03383	Q8NG85	-0.91257
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78455	P03383	Q9NPE2	-0.63952
78456	P03383	P36268	-0.58395
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78477	P03383	Q99742	-0.24928
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78507	P03383	P0DM48	-0.22711
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79261	P03383	P04066	-0.39859
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79267	P03383	P50552	-0.2139
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79273	P03383	P59536	-1.0953
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79277	P03383	O60637	-0.86584
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81363	P14079	P30990	-0.96431
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81375	P14079	P22223	-1.1394
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81378	P14079	Q9BR39	-0.41486
81379	P14079	Q9UBE8	-0.31152
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81382	P14079	P06702	-0.22784
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82205	P14079	P59826	-0.80678
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82207	P14079	P34995	-1.3843
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82211	P14079	Q96T53	-0.97045
82212	P14079	A6NHN0	-0.89985
82213	P14079	Q8TD07	-0.42968
82214	P14079	Q96LR1	-0.80633
82215	P14079	Q2MJR0	-0.54737
82216	P14079	Q92569	-0.22737
82217	P14079	Q05193	-0.27764
82218	P14079	Q71DI3	-0.65928
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82220	P14079	Q12852	-0.68596
82221	P14079	Q92574	-0.22703
82222	P14079	P0CV98	-0.6149
82223	P14079	Q86SG6	-1.2343
82224	P14079	Q15052	-0.35828
82225	P14079	P0C1S8	-0.69477
82226	P14079	Q9BRL6	-0.58152
82227	P14079	Q8TB22	-1.4053
82228	P14079	P11487	-0.63058
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82234	P14079	Q5XKR4	-0.18596
82235	P14079	P98153	-0.90178
82236	P14079	Q9NXG6	-1.2048
82237	P14079	P01374	-0.62391
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82239	P14079	P52799	-0.99688
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82242	P14079	Q7Z4L5	-0.33779
82243	P14079	Q9UHQ9	-0.91819
82244	P14079	Q9UQM7	-0.66807
82245	P14079	Q6ZNC4	-0.36051
82246	P14079	Q5W0B1	-0.2274
82247	P14079	P12955	-0.70117
82248	P14079	Q13873	-0.60473
82249	P14079	Q96I99	-0.97502
82250	P14079	Q86YQ2	-0.97176
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82252	P14079	Q14332	-0.67979
82253	P14079	Q00499	-0.22697
82254	P14079	P80404	-0.24619
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82267	P14079	Q6PI78	-0.62143
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82281	P14079	P22460	-0.68514
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82306	P14079	Q9UN88	-1.0312
82307	P14079	O95935	-0.59684
82308	P14079	Q8WWF6	-0.29576



82309	P14079	Q8WUD6	-0.61575
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82311	P14079	P34982	-1.3908
82312	P14079	Q9NXH9	-0.17771
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82346	P14079	Q5NUL3	-1.174
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82360	P14079	Q9HCG7	-0.89349
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82390	P14079	P62079	-0.77815
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82537	P14079	Q7Z7M0	-0.22741
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82539	P14079	Q13535	-0.82603
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82623	P14079	Q13363	-0.30547
82624	P14079	P48995	-0.44458
82625	P14079	Q16671	-1.6336
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82632	P14079	O95302	-0.39125
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82636	P14079	P04211	-1
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82644	P14079	P35236	-0.44741
82645	P14079	Q9Y5C1	-0.64751
82646	P14079	Q6UVY6	-1.2162
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82653	P14079	Q14050	-0.88758
82654	P14079	P09529	-0.22741
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82657	P14079	Q5DX21	-1.1915
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82703	P14079	O14788	-0.66488
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83035	P14079	Q8WWX8	-1.0713
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83039	P14079	Q9NQN1	-1.2314
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83042	P14079	Q695T7	-1.2499
83043	P14079	Q13461	-0.99971
83044	P14079	Q9BUL5	-0.28137
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83046	P14079	O60307	-0.88957
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83048	P14079	Q8N441	-0.94209
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83053	P14079	O75596	-0.91362
83054	P14079	P28908	-0.63605
83055	P14079	O95484	-0.60718
83056	P14079	O43323	-1.058
83057	P14079	Q08AH1	-1.1244
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83063	P14079	Q15049	-0.2412
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83066	P14079	Q9H598	-1.0547
83067	P14079	Q4KMQ2	-1.0228
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83129	P14079	Q8NGN2	-1.2314
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83447	P14079	P50395	-0.027011
83448	P14079	Q13188	-0.37722

83449	P14079	O75116	-0.25501
83450	P14079	P42356	-0.74949
83451	P14079	P35052	-1.0509
83452	P14079	P52907	-0.24914
83453	P14079	Q6ZUT9	-0.76229
83454	P14079	A6NKC9	-0.22741
83455	P14079	P01570	-0.81438
83456	P14079	P29803	-0.3554
83457	P14079	Q9Y2P5	-1.0593
83458	P14079	Q9UHD8	-0.22228
83459	P14079	Q9UIW2	-0.85353
83460	P14079	Q495M3	-0.81395
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83463	P14079	Q8NEM8	-0.46944
83464	P14079	Q13702	-0.2268
83465	P14079	B3GLJ2	-0.80633
83466	P14079	P57105	-0.58977
83467	P14079	Q96DR4	-0.45278
83468	P14079	P02792	-0.022366
83469	P14079	C9JUS6	-0.80633
83470	P14079	Q8TDF6	-0.45702
83471	P14079	P29033	-0.82361
83472	P14079	Q86UP3	-0.2245
83473	P14079	Q6UXM1	-0.77815
83474	P14079	Q9NYL4	-0.8246
83475	P14079	Q15166	-0.80559
83476	P14079	Q96QD5	-0.33461
83477	P14079	Q8IXL7	-0.48026
83478	P14079	P61952	-0.38805
83479	P14079	Q9NR99	-0.80633
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83481	P14079	P24468	-0.23799
83482	P14079	Q01968	-0.34084
83483	P14079	Q8NGE2	-1.2314
83484	P14079	Q9NZ08	-0.67805
83485	P14079	Q9P244	-0.66724
83486	P14079	Q9NPF7	-0.37142
83487	P14079	Q9NVM6	-0.88274
83488	P14079	P06309	-1
83489	P14079	Q96AJ9	-0.3605
83490	P14079	Q96QI5	-0.64658
83491	P14079	Q9BV79	-1.0456
83492	P14079	O94953	-0.13157
83493	P14079	P22413	-0.47385
83494	P14079	Q96BY6	-0.47266
83495	P14079	P01614	-1
83496	P14079	Q8IZP1	-1.4902
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83499	P14079	Q9BZG9	-1.253
83500	P14079	Q05901	-1.0105
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83503	P14079	O75460	-0.49329
83504	P14079	P59542	-1.1233
83505	P14079	O00445	-0.90109
83506	P14079	A6NED2	-0.21857
83507	P14079	P78536	-0.36897
83508	P14079	O95013	-1.2314
83509	P14079	Q8NGI0	-1.2314
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83511	P14079	P48431	-0.30179
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83522	P14079	P60201	-0.42405
83523	P14079	Q9ULA0	-0.60321
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83526	P14079	O75019	-1.0541
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83528	P14079	Q6TCH4	-0.77815
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83530	P14079	Q9BY49	-1.1298
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83535	P14079	Q9BZP6	-0.55913
83536	P14079	P20719	-0.15593
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83539	P14079	Q5T4B2	-0.48646
83540	P14079	P83859	-0.66035
83541	P14079	Q86X76	-0.11016
83542	P14079	O95633	-0.2177
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83544	P14079	O15217	-0.22314
83545	P14079	P08861	-1.4956
83546	P14079	A6NK97	-1.0152
83547	P14079	P17931	-0.33243
83548	P14079	Q53EP0	-0.69133
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83551	P14079	Q8TDW7	-1.5033
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83560	P14079	Q03395	-1.2094
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83644	P14079	O60337	-1.2333
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83646	P14079	Q96H72	-0.57775
83647	P14079	O60683	-0.22738
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83666	P14079	P06887	-1
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83668	P14079	Q8WV16	-0.25926
83669	P14079	Q9HCQ5	-0.65284
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83671	P14079	Q9Y442	-0.77815
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83715	P14079	Q9Y3S1	-1.4485
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83725	P14079	Q8NH55	-1.2314
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83757	P14079	Q95365	-1
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83804	P14079	Q96T68	-0.37138
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83824	P14079	P00488	-0.66481
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83827	P14079	Q8NGE5	-1.2314
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83829	P14079	Q8N5G0	-0.77815
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83843	P14079	Q8N4T4	-0.62033
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83845	P14079	Q8NGC4	-1.2314
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83852	P14079	P58181	-1.2314
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83858	P14079	P33241	-0.65566
83859	P14079	Q7Z3H0	-0.22739
83860	P14079	Q6VVB1	-0.21145
83861	P14079	Q8TBA6	-0.46024
83862	P14079	Q6F5E8	-0.21958
83863	P14079	Q9NZ53	-0.55299
83864	P14079	P50897	-0.41978
83865	P14079	Q9HAS3	-0.89883
83866	P14079	Q9H1R2	-0.33607
83867	P14079	P20645	-0.97084
83868	P14079	P28676	-0.38833
83869	P14079	Q5SQ64	-0.97472
83870	P14079	P29323	-1.0225
83871	P14079	Q86XK7	-0.77815
83872	P14079	O43252	-1.0489
83873	P14079	P06317	-0.98486
83874	P14079	O75106	-0.58671
83875	P14079	Q5FYA8	-0.75831
83876	P14079	P30939	-1.4097
83877	P14079	Q9GZV7	-1.1437
83878	P14079	Q16774	-0.81143
83879	P14079	Q9NQ38	-0.46746
83880	P14079	Q9NVP4	-0.36051
83881	P14079	P29597	-1.0938
83882	P14079	Q9HCK4	-0.61051
83883	P14079	Q5SR56	-1.0536
83884	P14079	Q8NNG4	-1.2314
83885	P14079	P40938	-0.18182
83886	P14079	P12109	-0.94218
83887	P14079	Q6UWV7	-0.77815
83888	P14079	Q9Y6W8	-1.7337
83889	P14079	P46095	-1.3741
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83891	P14079	Q9NPI9	-1.2604
83892	P14079	Q8N135	-0.84387
83893	P14079	P01780	-1
83894	P14079	Q05329	-0.25691
83895	P14079	Q8NET8	-0.99876
83896	P14079	O00622	-0.44879
83897	P14079	Q504Y3	-0.16822
83898	P14079	Q16695	-0.18013
83899	P14079	O00370	-0.14119
83900	P14079	Q13562	-0.22779
83901	P14079	P28223	-0.73405
83902	P14079	P54108	-0.86745
83903	P14079	P01912	-0.7019
83904	P14079	P20774	-0.55187

83905	P14079	O94808	-0.075577
83906	P14079	Q9Y6G1	-0.77815
83907	P14079	Q9HCU0	-0.79073
83908	P14079	Q86TD4	-0.3558
83909	P14079	P28358	-0.24271
83910	P14079	Q16720	-1.2665
83911	P14079	Q9UHD0	-0.73075
83912	P14079	Q9P296	-0.8006
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83914	P14079	P13535	-0.17428
83915	P14079	Q13459	-0.1783
83916	P14079	Q96Q91	-0.99067
83917	P14079	Q9NR64	-0.20121
83918	P14079	Q96P50	-1.1447
83919	P14079	P18462	-0.99945
83920	P14079	P0CB38	-0.79049
83921	P14079	Q6PKX4	-0.20015
83922	P14079	Q8NGP3	-1.2314
83923	P14079	Q13242	-0.22597
83924	P14079	Q86VB7	-1.104
83925	P14079	Q15139	-0.28784
83926	P14079	Q10589	-0.42413
83927	P14079	P30519	-0.34996
83928	P14079	P49767	-0.54927
83929	P14079	Q9ULT6	-0.83861
83930	P14079	Q9NNX1	-0.7563
83931	P14079	Q9BQ39	-0.75974
83932	P14079	P02771	-0.61748
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83936	P14079	O43304	-0.8787
83937	P14079	Q96DR5	-0.97176
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83941	P14079	Q96GR4	-0.94083
83942	P14079	Q9BPW4	-1.1982
83943	P14079	Q8IVH8	-0.81929
83944	P14079	P17612	-0.22179
83945	P14079	Q8TF27	-0.96514
83946	P14079	Q92786	-0.17006
83947	P14079	Q9NVC3	-0.76941
83948	P14079	P02750	-1.0628
83949	P14079	Q75333	-0.77559
83950	P14079	P22692	-0.96607
83951	P14079	P61081	-0.55543
83952	P14079	Q6PFW1	-0.41265
83953	P14079	Q9NPH9	-0.3665
83954	P14079	Q14703	-0.95449
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83957	P14079	Q5QJ74	-0.22545
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83959	P14079	P22307	-0.18412
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83977	P14079	Q14512	-0.58652
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83979	P14079	Q8NGC3	-1.2314
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83982	P14079	O43897	-1.6555
83983	P14079	Q96RQ9	-1.0316
83984	P14079	Q15111	-0.43913
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83986	P14079	Q9UNI1	-1.0077
83987	P14079	Q5GAN3	-0.78321
83988	P14079	P19099	-0.56222
83989	P14079	Q96MS0	-1.1193
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83991	P14079	Q8IVH4	-1.0184
83992	P14079	Q8NCJ5	-0.16574
83993	P14079	P36776	-0.15504
83994	P14079	Q6ZUK4	-0.77815
83995	P14079	P53708	-0.98041
83996	P14079	O95081	-0.46258
83997	P14079	P57087	-0.42866
83998	P14079	P61769	-0.55086
83999	P14079	Q6XUX3	-1.0174
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84002	P14079	Q9BSW7	-0.36763
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84005	P14079	Q9HB20	-0.3526
84006	P14079	Q9BZF1	-0.53387
84007	P14079	Q9NUV9	-0.31222
84008	P14079	Q13564	-0.29092
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84012	P14079	Q96RD2	-1.2314
84013	P14079	Q9NV58	-0.39035
84014	P14079	P55318	-0.73589
84015	P14079	Q6P3R8	-1.4672
84016	P14079	Q9Y6B6	-0.34497
84017	P14079	Q8IWU5	-0.43687
84018	P14079	Q15399	-1.0125
84019	P14079	Q63HR2	-0.22741
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84023	P14079	P12644	-0.22741
84024	P14079	Q13614	-0.21152
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84026	P14079	Q99983	-1.1358
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84031	P14079	P49683	-1.3082
84032	P14079	Q96PX8	-0.87401
84033	P14079	P13866	-0.37156
84034	P14079	P18085	-0.37478
84035	P14079	Q16513	-0.19873
84036	P14079	Q9Y6M9	-0.10346
84037	P14079	Q9NZJ5	-0.46549
84038	P14079	O43315	-0.67234
84039	P14079	Q04826	-1
84040	P14079	F8VTS6	-0.22741
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84042	P14079	Q86VW1	-1.2544
84043	P14079	Q9HAW7	-0.97591
84044	P14079	Q7Z7B1	-0.95376
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84046	P14079	Q8WXD2	-0.79628
84047	P14079	Q8N6T3	-0.10962
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84051	P14079	O75914	-0.90896
84052	P14079	Q96C45	-1.4433
84053	P14079	Q8WX77	-0.77608
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84061	P14079	Q92947	-0.50859
84062	P14079	Q9UK32	-0.95727
84063	P14079	P29016	-0.79137
84064	P14079	A6NGE4	-0.22737
84065	P14079	Q58DX5	-1.2264
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84067	P14079	P41180	-0.85082
84068	P14079	Q96P09	-0.2274
84069	P14079	Q5SQQ9	-0.28664
84070	P14079	Q8TDU5	-1.2496
84071	P14079	Q96LJ7	-0.96549
84072	P14079	Q8IZF2	-1.3662
84073	P14079	Q8NBI6	-1.0168
84074	P14079	P20160	-0.78532
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84076	P14079	Q9BQ51	-1.4843
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84081	P14079	Q5JSL3	-0.37911
84082	P14079	O75923	-0.89391
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84085	P14079	O60412	-1.2314
84086	P14079	Q12864	-1.0643
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84091	P14079	Q9UBD9	-0.3652
84092	P14079	Q30KQ5	-0.78458
84093	P14079	Q5VVJ2	-0.22735
84094	P14079	P42338	-0.50086
84095	P14079	Q8TF76	-0.79748
84096	P14079	Q5KSL6	-1.1624
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84101	P14079	P08648	-0.29889
84102	P14079	Q8NDV3	-0.47423
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84104	P14079	P51178	-0.34676
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84112	P14079	Q8IZJ0	-0.84003
84113	P14079	P07858	-0.34938
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84117	P14079	O43306	-0.61153
84118	P14079	Q8WU17	-0.74412
84119	P14079	P30044	-0.43158
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84121	P14079	O60507	-0.69004
84122	P14079	P54829	-1.291
84123	P14079	Q95980	-0.46997
84124	P14079	P63218	-0.41257
84125	P14079	P14652	-0.11504
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84127	P14079	Q9UIQ6	-1.506
84128	P14079	Q8N878	-0.75763
84129	P14079	P26436	-0.58535
84130	P14079	Q13886	-0.20969
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84132	P14079	P30505	-1



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84145	P14079	Q6ZN54	-0.38596
84146	P14079	Q9P2B2	-0.22741
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84151	P14079	P49810	-0.21587
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84160	P14079	P35613	-0.22742
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84163	P14079	Q8WZA1	-0.67186
84164	P14079	Q8IZJ3	-1.1011
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84178	P14079	O60479	-0.21259
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84181	P14079	Q96GA7	-0.24561
84182	P14079	O75951	-0.83713
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84187	P14079	O60566	-0.2274
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84208	P14079	P28335	-0.97819

84209	P14079	Q8NFU7	-0.24718
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84212	P14079	O15130	-0.92686
84213	P14079	O94880	-0.26083
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84216	P14079	O15146	-1.1486
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84249	P14079	Q68D42	-0.77815
84250	P14079	P30487	-1
84251	P14079	P50747	-0.48846
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84262	P14079	Q8TD20	-0.71051
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84265	P14079	Q16617	-1.1905
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84268	P14079	P01116	-0.34579
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84290	P14079	Q8TC12	-1.4344
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84292	P14079	Q70EL2	-0.79741
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84299	P14079	O95007	-1.2314
84300	P14079	P21741	-0.90878
84301	P14079	P22894	-1.4221
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84321	P14079	P59536	-1.1233
84322	P14079	Q9NP72	-1.6141
84323	P14079	Q71RG4	-0.77815
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84325	P14079	P21728	-0.33762
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84327	P14079	Q0IIM8	-1.5115
84328	P14079	Q9P275	-0.5228
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84330	P14079	Q9H252	-1.1453
84331	P14079	Q5SGD2	-0.73834
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84717	P14079	P01608	-1
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84721	P14079	P56597	-0.67772
84722	P14079	P01772	-1
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84735	P14079	Q13451	-0.51122
84736	P14079	Q9UGC6	-0.4832
84737	P14079	Q9ULK6	-0.78242
84738	P14079	P42126	-0.41452
84739	P14079	Q9ULC3	-1.1205
84740	P14079	Q9HB90	-0.66776



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84743	P14079	A6NDG6	-0.37671
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84747	P14079	Q96CX6	-0.22922
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85129	P14079	P46663	-1.0555
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85141	P14079	Q86UD5	-0.92269
85142	P14079	Q76FK4	-0.22688
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85183	P14079	P13501	-0.58608
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85186	P14079	O95838	-1.1855
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85548	P14079	Q2TB10	-0.22738
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85584	P14079	P47804	-0.76881
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86402	P14079	Q01167	-0.77505
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86405	P14079	Q15496	-0.70406
86406	P14079	P25874	-0.57621
86407	P14079	Q16850	-1.1847
86408	P14079	Q96S38	-0.92991
86409	P14079	Q9BZ81	-0.26849
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86415	P14079	P01598	-1
86416	P14079	Q9Y228	-0.099859
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86418	P14079	Q96F15	-0.99206
86419	P14079	Q9H5V8	-1.5917
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86421	P14079	Q06055	-0.76294
86422	P14079	Q6UXU4	-0.77815
86423	P14079	Q08170	-0.22318
86424	P14079	P34925	-0.84698
86425	P14079	Q8WXS4	-1.0145
86426	P14079	Q8WZ75	-1.0432
86427	P14079	O60336	-0.22775
86428	P14079	Q8N653	-0.22713
86429	P14079	Q6UXP3	-0.77815
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86431	P14079	Q8IYM1	-0.22385
86432	P14079	Q9P2K8	-1.1333
86433	P14079	O60880	-0.22741
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86435	P14079	Q15669	-0.21863
86436	P14079	P78562	-1.2215
86437	P14079	P26572	-0.50991
86438	P14079	Q4LDE5	-0.64606
86439	P14079	Q8NH16	-1.2302
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86441	P14079	Q96GE6	-0.22679
86442	P14079	Q9UIK4	-1.0342
86443	P14079	P48058	-1.145
86444	P14079	Q5QGT7	-0.90447
86445	P14079	Q9BXU9	-0.6246
86446	P14079	P08172	-1.0207
86447	P14079	Q96PN8	-1.817
86448	P14079	Q6SPF0	-0.64465
86449	P14079	Q8NH83	-1.2314
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86451	P14079	P30457	-0.99945
86452	P14079	P04435	-0.27282
86453	P14079	O75912	-0.36942
86454	P14079	P10176	-0.57679
86455	P14079	O95406	-0.68292
86456	P14079	Q8TD90	-0.010861
86457	P14079	Q3ZCN5	-0.14965
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86460	P14079	Q12829	-1.3858
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86463	P14079	Q9C030	-0.29589
86464	P14079	Q8NG66	-0.56356
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86466	P14079	Q9P232	-0.57912
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86468	P14079	Q5EG05	-0.44379
86469	P14079	P30520	-0.91428
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86472	P14079	P54886	-0.89503
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86476	P14079	P51692	-0.22592
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86479	P14079	O75343	-0.8552
86480	P14079	P42330	-0.2228
86481	P14079	O43680	-0.22995
86482	P14079	Q8IVW6	-0.18447
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86484	P14079	Q86UW7	-0.19241
86485	P14079	Q99999	-0.86741
86486	P14079	Q6SJ93	-0.34347
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86488	P14079	O15460	-0.60685

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86606	P14079	Q9H205	-1.2314
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86643	P14079	Q9NQL9	-0.23786
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86650	P14079	Q9P2R3	-0.2274
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86692	P14079	Q15843	-0.22244
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86803	P14079	P35372	-0.4209
86804	P14079	P60033	-0.29122
86805	P14079	Q86XQ3	-1.2156
86806	P14079	P08842	-0.62538
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86819	P14079	P48067	-1.0841
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86823	P14079	P48307	-0.91288
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86825	P14079	Q9BXU8	-0.34293
86826	P14079	Q7RTY5	-1.4766
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86829	P14079	Q504Y2	-1.1061
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86837	P14079	Q9UL63	-0.21514
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86839	P14079	Q96BR1	-1.1845
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86841	P14079	P56703	-0.60537
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86843	P14079	Q96RP3	-0.86159
86844	P14079	P25940	-1.0157
86845	P14079	Q96R08	-1.2314
86846	P14079	P09429	-0.23209
86847	P14079	Q7Z4H4	-0.81111
86848	P14079	Q92766	-0.20629
86849	P14079	Q6UWR7	-1.5274
86850	P14079	Q9NTN9	-1.2767
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86852	P14079	P62683	-0.065735
86853	P14079	Q96RB7	-1.2314
86854	P14079	P01617	-1
86855	P14079	Q13444	-0.74201
86856	P14079	P98187	-1.1947
86857	P14079	Q8TDW4	-0.75108
86858	P14079	Q96Q77	-0.22751
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86862	P14079	P78411	-0.24043
86863	P14079	Q14449	-0.22741
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86882	P14079	P30456	-0.99945
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87239	P14079	Q9UIL4	-0.26233
87240	P14079	O00300	-0.86564
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87243	P14079	Q04844	-1.1774
87244	P14079	Q9BTV6	-0.22753
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87248	P14079	Q6UXX9	-0.817

87249	P14079	Q96PB8	-0.77815
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87253	P14079	P17483	-0.13834
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87257	P14079	P30988	-0.68541
87258	P14079	Q9BZV2	-0.80117
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87263	P14079	Q99259	-0.23477
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87267	P14079	Q9NYR9	-1.0733
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87275	P14079	Q9NR80	-0.22747
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87279	P14079	Q96S44	-0.75447
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87281	P14079	Q9NQG6	-0.029493
87282	P14079	Q96D42	-0.46283
87283	P14079	Q60I27	-0.95559
87284	P14079	Q11206	-0.89068
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87306	P14079	Q13936	-0.39298
87307	P14079	Q7RTY9	-1.0415
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87309	P14079	P23142	-0.93804
87310	P14079	Q5VZM2	-0.32361
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87350	P14079	Q03001	-0.22847
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87359	P14079	P11766	-0.41439
87360	P14079	Q96CM8	-1.0887
87361	P14079	Q5JXX5	-0.95819
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87368	P14079	Q13433	-1.1047
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87704	P14079	Q9NX74	-0.49241

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87709	P14079	Q92598	-0.58794
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88088	P14079	P11488	-0.67968
88089	P14079	Q9NP08	-0.22931
88090	P14079	Q8NHV1	-1.0029
88091	P14079	Q6P3X3	-0.26849
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88095	P14079	Q0P5N6	-1.3745
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88103	P14079	P30532	-1.104
88104	P14079	Q96PN6	-0.67783
88105	P14079	P25103	-0.71569
88106	P14079	P61221	-0.39604
88107	P14079	P54289	-0.93746
88108	P14079	P00451	-0.80102
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88110	P14079	Q99988	-0.81768
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88112	P14079	Q8IZ81	-0.57873
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88115	P14079	P63124	-0.65475
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88118	P14079	Q9HBY8	-1.0381
88119	P14079	Q96DR7	-0.7658
88120	P14079	Q92887	-1.1401
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88130	P14079	P34820	-1.0925
88131	P14079	Q99965	-1.2293
88132	P14079	Q8N6D5	-0.22739
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88136	P14079	A6NI28	-1.198
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88138	P14079	O76070	-0.17426
88139	P14079	P47775	-1.4626
88140	P14079	Q05469	-0.21099
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88146	P14079	Q9NS82	-1.2445
88147	P14079	Q92781	-1.0743
88148	P14079	Q13651	-0.56951
88149	P14079	P10644	-0.22759
88150	P14079	Q8N144	-0.97546
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88159	P14079	Q92738	-1.5094
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88172	P14079	P45974	-0.33698
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88190	P14079	Q9BY10	-1.022
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88222	P14079	Q86Z23	-0.89985
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88317	P14079	Q86U02	-0.77815
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88320	P14079	Q9UHP7	-1.1784
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88371	P14079	Q8WWU5	-1.3332
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88418	P14079	Q8NH09	-1.2314
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88515	P14079	Q9GZZ7	-1.0198
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88517	P14079	Q9Y6W6	-0.36225
88518	P14079	Q9Y5H0	-1.2343
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88520	P14079	P24386	-0.74988
88521	P14079	Q96LD4	-0.22724
88522	P14079	Q9UK08	-0.83203
88523	P14079	P30043	-0.42893
88524	P14079	P30493	-1
88525	P14079	Q92736	-0.39987
88526	P14079	Q8NFI4	-0.2271
88527	P14079	Q8N3C0	-0.22707
88528	P14079	Q76062	-1.1751
88529	P14079	Q9UJV9	-0.9203
88530	P14079	Q8TD84	-1.0872
88531	P14079	Q95498	-0.40666
88532	P14079	Q8IZF4	-1.3662
88533	P14079	Q8IVJ1	-1.2024
88534	P14079	A6NFN9	-0.22735
88535	P14079	O43623	-0.20115
88536	P14079	Q7Z418	-1.2746
88537	P14079	Q86TM3	-0.81414
88538	P14079	O60513	-0.58897
88539	P14079	P08519	-1.3181
88540	P14079	P49286	-1.425

88541	P14079	Q5VX71	-0.77815
88542	P14079	Q8NGT5	-1.2314
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88544	P14079	P41439	-0.75767
88545	P14079	Q8TBY9	-0.2274
88546	P14079	O60503	-1.1661
88547	P14079	Q92858	-0.23246
88548	P14079	P18463	-1
88549	P14079	Q8TEQ8	-1.0222
88550	P14079	P21217	-0.6899
88551	P14079	Q96NX9	-0.35872
88552	P14079	A6NDL7	-0.21342
88553	P14079	Q13470	-1.0224
88554	P14079	Q9NXL2	-0.43809
88555	P14079	P28039	-0.9464
88556	P14079	P50150	-0.46489
88557	P14079	O60235	-2.0058
88558	P14079	A6NHG4	-0.15652
88559	P14079	Q9H8H3	-0.30279
88560	P14079	Q9HCP0	-1.3729
88561	P14079	O43193	-1.4952
88562	P14079	A2A2Z9	-0.22716
88563	P14079	Q8IV63	-0.80081
88564	P14079	Q66K79	-1.4301
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88566	P14079	Q6EIG7	-0.6692
88567	P14079	Q08708	-1.1705
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88578	P14079	Q9BS26	-0.28786
88579	P14079	Q7Z4I7	-0.042437
88580	P14079	P26842	-0.67009
88581	P14079	P00995	-0.24599
88582	P14079	Q9UIB8	-1.3374
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88585	P14079	Q8IX18	-0.95316
88586	P14079	Q70E73	-0.50888
88587	P14079	Q9Y5H9	-1.341
88588	P14079	Q92908	-0.22736
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88590	P14079	P47881	-1.2314
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88594	P14079	Q6PI25	-0.42625
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88606	P14079	P40313	-1.0452
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88619	P14079	Q9NPC8	-0.24559
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89368	P14079	Q9UHG3	-0.62177
89369	P14079	P51801	-1.254
89370	P14079	P29590	-0.22614
89371	P14079	Q9NW61	-0.20291
89372	P14079	P40225	-0.93967
89373	P14079	Q5T0T0	-1.1644
89374	P14079	Q96KV7	-0.22801
89375	P14079	Q8NCI6	-0.27282
89376	P14079	P48723	-0.75636

89377	P14079	P20839	-0.47218
89378	P14079	O94967	-0.22703
89379	P14079	Q96PP9	-0.58833
89380	P14079	Q53LP3	-0.22742
89381	P14079	Q00604	-0.69974
89382	P14079	Q9C0A1	-0.2274
89383	P14079	Q6UXT9	-0.81748
89384	P14079	P10319	-1
89385	P14079	Q2QL34	-0.99462
89386	P14079	O15498	-0.17552
89387	P14079	A2RUH7	-0.26849
89388	P14079	P04921	-0.5089
89389	P14079	Q9H8P0	-0.83905
89390	P14079	Q86VI3	-0.53935
89391	P14079	O94826	-0.2273
89392	P14079	Q9UJM8	-0.82062
89393	P14079	Q8TBE1	-0.79273
89394	P14079	Q9BUJ0	-0.58849
89395	P14079	Q03013	-0.4821
89396	P14079	A6NC86	-0.78848
89397	P14079	Q99519	-0.55862
89398	P14079	Q8NH18	-1.2314
89399	P14079	Q59H18	-0.51215
89400	P14079	Q6KCM7	-0.79732
89401	P14079	Q7LC44	-0.35816
89402	P14079	Q5TCS8	-0.96497
89403	P14079	P23527	-0.92425
89404	P14079	O43320	-0.93644
89405	P14079	O14926	-0.20082
89406	P14079	Q13572	-1.125
89407	P14079	P01770	-1
89408	P14079	P46459	-0.22983
89409	P14079	Q14894	-0.36598
89410	P14079	P16473	-0.80117
89411	P14079	Q9H2C1	-0.22552
89412	P14079	Q9H987	-0.2264
89413	P14079	P01596	-1
89414	P14079	Q9NR81	-0.29444
89415	P14079	Q9UBL9	-0.59875
89416	P14079	P19397	-0.44255
89417	P14079	P55773	-1.0563
89418	P14079	Q8NGR9	-1.2314
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89420	P14079	Q9C040	-0.2274
89421	P14079	O94762	-0.2263
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89423	P14079	Q8IWT1	-0.89605
89424	P14079	P36268	-0.96708
89425	P14079	E5RG02	-0.90561
89426	P14079	Q92949	-0.73602
89427	P14079	Q2Q1W2	-0.4951
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89429	P14079	Q8IX29	-0.19672
89430	P14079	Q15615	-1.2314
89431	P14079	Q9Y6F9	-0.92275
89432	P14079	P59817	-0.22769
89433	P14079	Q6SA08	-1.1241
89434	P14079	Q5VXU1	-0.97472
89435	P14079	Q8TCU6	-0.22764
89436	P14079	Q9UL54	-0.82225
89437	P14079	Q12926	-0.28561
89438	P14079	Q8N2G6	-0.16722
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89440	P14079	P18074	-0.21527
89441	P14079	A6NGU5	-0.83048
89442	P14079	Q08188	-0.57505
89443	P14079	Q6P3W2	-0.28941
89444	P14079	O43638	-0.82888
89445	P14079	Q6ZNL6	-0.80205
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89447	P14079	Q9C0C4	-0.9055
89448	P14079	Q8NCL8	-0.80224
89449	P14079	O94985	-1.151
89450	P14079	Q6ZMM2	-0.98536
89451	P14079	Q13361	-0.95216
89452	P14079	Q8WUU8	-0.77815

89453	P14079	P06732	-0.99881
89454	P14079	P00441	-0.20698
89455	P14079	Q4ZJI4	-0.9055
89456	P14079	O75093	-0.81617
89457	P14079	O14983	-0.52212
89458	P14079	O75771	-0.20184
89459	P14079	O43405	-0.33314
89460	P14079	P20851	-0.99506
89461	P14079	P63131	-0.65475
89462	P14079	P06729	-0.97747
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89467	P14079	Q9P2P1	-0.73943
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89469	P14079	Q96FT7	-1.162
89470	P14079	Q99624	-1.1538
89471	P14079	P06870	-0.64569
89472	P14079	Q96ET8	-0.77815
89473	P14079	Q16280	-1.4203
89474	P14079	Q9P2V4	-0.92528
89475	P14079	Q8NA75	-0.22676
89476	P14079	Q6WRI0	-1.0911
89477	P14079	Q68D86	-0.12906
89478	P14079	P0DJR0	-1.0029
89479	P14079	Q9Y5H1	-1.2343
89480	P14079	Q8IWR1	-0.91258
89481	P14079	Q92771	-0.64544
89482	P14079	O00555	-0.37243
89483	P14079	Q96EY8	-0.78625
89484	P14079	Q13685	-0.68668
89485	P14079	Q15523	-0.94282
89486	P14079	Q96A47	-0.27864
89487	P14079	Q9NXS3	-0.17501
89488	P14079	Q8IUUY3	-0.77815
89489	P14079	Q9Y673	-0.89822
89490	P14079	Q9Y6N1	-0.67976
89491	P14079	O60237	-0.29022
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89495	P14079	Q7Z4F1	-0.86133
89496	P14079	Q9P1W8	-0.56992
89497	P14079	Q14917	-0.61062
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89504	P14079	Q5JV73	-0.22666
89505	P14079	Q9ULK5	-0.42952
89506	P14079	Q58EX2	-1.0127
89507	P14079	Q3SYC2	-0.93806
89508	P14079	Q12766	-0.22727
89509	P14079	Q29963	-1
89510	P14079	Q03403	-0.29093
89511	P14079	P82987	-1.2134
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89513	P14079	Q7Z3H4	-0.19879
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89515	P14079	P01909	-0.85773
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89536	P14079	P46736	-0.4526
89537	P14079	O14753	-0.20918
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89541	P14079	Q9BZF3	-0.23157
89542	P14079	Q8N5D6	-0.57892
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89547	P14079	Q96BM9	-0.60147
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89550	P14079	Q13585	-1.4534
89551	P14079	Q9NSI5	-0.37538
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89553	P14079	Q99675	-0.22611
89554	P14079	Q7Z4K8	-0.36051
89555	P14079	O75715	-1.332
89556	P14079	Q9BQG1	-0.87619
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89571	P14079	P14151	-0.76245
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89573	P14079	Q13075	-0.28693
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89598	P14079	P0DKB6	-0.77815
89599	P14079	Q53H76	-0.99296
89600	P14079	Q86Y27	-0.80633
89601	P14079	Q8NHC4	-1.2314
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89603	P14079	Q8IUX8	-1.6197
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89605	P14079	Q9HD45	-0.82661
89606	P14079	Q96M69	-1.0879
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89608	P14079	Q9UK05	-0.22741
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89610	P14079	P35367	-0.74393
89611	P14079	Q96PD5	-0.78165
89612	P14079	Q9UN73	-1.8675
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89614	P14079	Q14206	-0.77399
89615	P14079	Q8TCV5	-0.82805
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89617	P14079	Q8WXS8	-1.3652
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89622	P14079	O75417	-0.56434
89623	P14079	Q9H832	-0.59575
89624	P14079	Q16828	-0.30076
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89626	P14079	P04275	-0.22736
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89628	P14079	Q8N142	-0.8349
89629	P14079	P14778	-1.1122
89630	P14079	Q9BQI0	-0.28882
89631	P14079	Q9NWH2	-0.77815
89632	P14079	Q460N5	-0.21985
89633	P14079	Q9Y279	-0.22743
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89638	P14079	Q99500	-1.2725
89639	P14079	Q8TF21	-0.22764
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89641	P14079	Q13488	-0.83641
89642	P14079	Q99967	-0.10107
89643	P14079	Q18PE1	-0.48021
89644	P14079	Q9H156	-0.87401
89645	P14079	P22681	-0.22741
89646	P14079	Q15084	-0.45427
89647	P14079	Q8WUG5	-1.2051
89648	P14079	P30466	-1
89649	P14079	Q14568	-0.61725
89650	P14079	Q8NGY1	-1.2314
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89652	P14079	A6NC98	-0.11409
89653	P14079	Q96RI0	-1.5696
89654	P14079	P04201	-0.85188
89655	P14079	Q8NGM8	-1.2314
89656	P14079	C9JPN9	-0.77524
89657	P14079	Q9BXI9	-1.0804
89658	P14079	O94972	-0.2274
89659	P14079	Q9Y547	-0.34251
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89662	P14079	A6NNY8	-0.77524
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89668	P14079	Q9UKM7	-0.88812
89669	P14079	O60774	-1.1007
89670	P14079	O75015	-1.0373
89671	P14079	P07911	-0.7391
89672	P14079	Q8NB78	-0.48334
89673	P14079	Q9HC97	-1.5146
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89675	P14079	O43150	-0.31241
89676	P14079	Q8NFP9	-0.22741
89677	P14079	O15068	-0.2687
89678	P14079	A6BM72	-0.84394
89679	P14079	Q9UPW0	-0.99971
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89683	P14079	P16190	-0.98914
89684	P14079	Q99645	-0.90264
89685	P14079	O15342	-0.67713
89686	P14079	Q9HCN6	-0.54791
89687	P14079	Q9Y5T4	-0.71316
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89690	P14079	Q9H341	-1.2314
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89707	P14079	Q13325	-0.29258
89708	P14079	Q7Z628	-0.22997
89709	P14079	O94761	-0.62823
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89716	P14079	Q8NG81	-1.2314
89717	P14079	P19113	-0.60506
89718	P14079	O95972	-0.71911
89719	P14079	P16035	-0.71096
89720	P14079	A6NMY6	-0.77628
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89722	P14079	Q9NUD5	-0.16722
89723	P14079	Q9H0F7	-0.64301
89724	P14079	Q14541	-0.22877
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89726	P14079	P25100	-1.3618
89727	P14079	Q92535	-0.9605
89728	P14079	P22748	-0.15243
89729	P14079	Q00341	-0.3435
89730	P14079	Q15457	-0.39766
89731	P14079	Q8IZ69	-0.64826
89732	P14079	Q5VYY2	-0.9063
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89738	P14079	Q96E17	-1.1461
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89743	P14079	P42702	-1.1704
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89756	P14079	Q8N4V1	-0.69516

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89763	P14079	O15296	-0.46309
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89768	P14079	Q96Q27	-0.60753
89769	P14079	Q6UXD7	-0.87582
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89771	P14079	P16499	-0.48424
89772	P14079	Q9H2Y7	-0.23179
89773	P14079	Q16778	-0.90191
89774	P14079	P55064	-0.58882
89775	P14079	Q96DT5	-0.39879
89776	P14079	Q9NY28	-0.65329
89777	P14079	P50851	-0.85625
89778	P14079	Q9HBI1	-0.22736
89779	P14079	P55145	-0.6653
89780	P14079	Q9UF02	-0.85365
89781	P14079	Q9UH17	-0.50877
89782	P14079	O75326	-0.27355
89783	P14079	Q6PIS1	-0.87103
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89785	P14079	Q15303	-0.24484
89786	P14079	Q9NY37	-1.0683
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90214	P14079	Q8NH95	-1.2314
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90235	P14079	Q8TAQ9	-0.76148
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90249	P14079	P30556	-0.54266
90250	P14079	Q96MS3	-0.77183
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90253	P14079	O60609	-0.3565
90254	P14079	Q14697	-0.16722
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90261	P14079	Q8TB96	-1.4172
90262	P14079	Q15582	-1.388
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90281	P14079	P06313	-1
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90294	P14079	Q13203	-0.57419
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90473	P14079	Q13286	-0.11765
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90632	P14079	Q86Y22	-1.5685
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90634	P14079	Q96J92	-1.1287
90635	P14079	P08294	-0.2103
90636	P14079	P21757	-0.5778
90637	P14079	P00742	-0.89148
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90722	P14079	Q15057	-0.96514
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91058	P14079	P10398	-0.71037
91059	P14079	P36269	-0.99767
91060	P14079	A6NH00	-1.2314
91061	P14079	P11021	-0.21967
91062	P14079	Q8TET4	-0.29274
91063	P14079	Q9Y264	-0.82362
91064	P14079	P27707	-0.66295
91065	P14079	P01778	-1
91066	P14079	A6NND4	-1.2314
91067	P14079	P13473	-0.8412
91068	P14079	Q8WYP3	-0.94614
91069	P14079	Q9H8W5	-0.22741
91070	P14079	O43609	-0.21943
91071	P14079	Q9P0L0	-0.23512
91072	P14079	Q9Y272	-0.95186
91073	P14079	Q9H967	-0.22702
91074	P14079	Q8NH80	-1.2314
91075	P14079	Q9H9S5	-1.247
91076	P14079	Q8NC06	-0.37587
91077	P14079	Q8TDB8	-0.99916
91078	P14079	Q8IV04	-1.4902
91079	P14079	P38570	-1.1431
91080	P14079	Q53GT1	-0.20051
91081	P14079	Q94779	-0.47488
91082	P14079	P11245	-0.28339
91083	P14079	O76071	-0.22756
91084	P14079	O60673	-0.95691
91085	P14079	Q9ULL1	-0.51188
91086	P14079	Q9ULZ9	-1.6305
91087	P14079	Q9NRC9	-0.79842
91088	P14079	P55916	-0.52438
91089	P14079	O00443	-0.59731
91090	P14079	Q8NH63	-1.2314
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91092	P14079	Q99880	-0.92425
91093	P14079	P04183	-0.80813
91094	P14079	A8MWE9	-0.1887
91095	P14079	Q8NG75	-1.2314
91096	P14079	Q06432	-1.0489
91097	P14079	A6NLU5	-0.77815
91098	P14079	Q6P9F5	-0.36051
91099	P14079	Q9H173	-0.14095
91100	P14079	Q16799	-0.47024
91101	P14079	Q8N162	-1.2314
91102	P14079	Q15858	-1.0094
91103	P14079	O15528	-0.41863
91104	P14079	Q01459	-0.36739
91105	P14079	Q96A61	-0.36051
91106	P14079	Q5W186	-0.94572
91107	P14079	P59535	-1.1233
91108	P14079	Q66K37	-0.22484
91109	P14079	Q9HAW9	-0.93032
91110	P14079	Q8NLFU5	-0.62267
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91112	P14079	Q9UBR2	-0.95464
91113	P14079	Q9H1E5	-0.82882
91114	P14079	Q96PB7	-0.79777
91115	P14079	Q05209	-0.2593
91116	P14079	Q16478	-0.73405
91117	P14079	Q16288	-1.2555
91118	P14079	Q99616	-0.99139
91119	P14079	O75752	-0.7289
91120	P14079	Q9UGQ2	-0.76219
91121	P14079	Q13255	-0.99047
91122	P14079	Q3KR16	-0.2279
91123	P14079	Q5JQD4	-0.78571
91124	P14079	Q96MN5	-0.19661

91125	P14079	Q96RR4	-1.1826
91126	P14079	Q9C0E8	-1.0322
91127	P14079	P35523	-1.1165
91128	P14079	P50226	-0.4279
91129	P14079	Q6ZQY2	-0.22727
91130	P14079	Q9NTX5	-0.16839
91131	P14079	P30968	-1.6034
91132	P14079	Q29974	-0.67629
91133	P14079	Q6P1J6	-0.90944
91134	P14079	P04217	-0.89896
91135	P14079	Q96KC8	-0.32369
91136	P14079	Q07889	-0.22739
91137	P14079	Q15119	-0.50269
91138	P14079	Q2M2E3	-1.246
91139	P14079	P01860	-0.89686
91140	P14079	P02452	-0.30753
91141	P14079	Q9Y580	-0.74944
91142	P14079	Q9P0V8	-0.78716
91143	P14079	P19174	-0.22741
91144	P14079	A8MTI9	-1.968
91145	P14079	P09486	-0.30921
91146	P14079	Q9Y6A1	-1.0983
91147	P14079	Q8TDQ1	-0.97472
91148	P14079	Q6P0Q8	-0.69855
91149	P14079	Q96IQ7	-0.99591
91150	P14079	Q5TZ20	-1.2314
91151	P14079	Q96HS1	-0.62393
91152	P14079	Q9H4L4	-0.35306
91153	P14079	Q13530	-0.709
91154	P14079	Q8N9W6	-0.48157
91155	P14079	Q6NXT2	-0.92425
91156	P14079	Q9HBW0	-0.95366
91157	P14079	Q9Y2U8	-0.18066
91158	P14079	Q9BT23	-0.22527
91159	P14079	Q99795	-1.1921
91160	P14079	Q8IV61	-0.66913
91161	P14079	Q6NUQ4	-0.77815
91162	P14079	Q9BXC9	-0.11571
91163	P14079	P16150	-1.0158
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91165	P14079	Q17RD7	-0.31401
91166	P14079	P09382	-0.52415
91167	P14079	Q49AH0	-0.76558
91168	P14079	P03971	-0.55541
91169	P14079	P16871	-0.93621
91170	P14079	Q14469	-0.22626
91171	P14079	Q9Y5E7	-1.3144
91172	P14079	Q8TD57	-0.39615
91173	P14079	Q5EB52	-1.036
91174	P14079	Q94810	-0.61405
91175	P14079	P21583	-0.4977
91176	P14079	Q60242	-1.3681
91177	P14079	P78333	-1.3582
91178	P14079	Q13009	-0.42435
91179	P14079	Q15375	-0.96865
91180	P14079	O15041	-1.0057
91181	P14079	Q9NS28	-0.71584
91182	P14079	Q96QP1	-0.78881
91183	P14079	P60983	-0.50791
91184	P14079	Q9UPI3	-0.99953
91185	P14079	Q2KJY2	-0.57708
91186	P14079	Q75443	-1.0854
91187	P14079	P50895	-1.3648
91188	P14079	Q9NVG8	-1.4902
91189	P14079	Q86YW0	-0.41341
91190	P14079	Q15269	-0.2145
91191	P14079	P46952	-0.35052
91192	P14079	P11182	-0.19559
91193	P14079	Q8NH19	-1.2314
91194	P14079	Q9H2C2	-0.81512
91195	P14079	Q6NXG1	-0.59285
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91197	P14079	Q7Z2K6	-1.3516
91198	P14079	P41273	-1.0113
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91209	P14079	Q99797	-0.57032
91210	P14079	O43766	-0.49136
91211	P14079	O15031	-1.274
91212	P14079	P55289	-1.2011
91213	P14079	P51864	-0.51211
91214	P14079	P31942	-0.37657
91215	P14079	P30475	-1.0983
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91217	P14079	Q495C1	-0.16822
91218	P14079	P51582	-1.1685
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91220	P14079	Q9UK17	-1.2886
91221	P14079	A6ND48	-1.2314
91222	P14079	Q8IXV7	-0.21419
91223	P14079	P50238	-0.22779
91224	P14079	P36952	-0.12358
91225	P14079	Q6ZUM4	-0.80443
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91227	P14079	P49585	-0.43916
91228	P14079	Q9BZY9	-0.42865
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91230	P14079	Q86TZ1	-0.22736
91231	P14079	Q6QN14	-0.43956
91232	P14079	O00358	-0.99971
91233	P14079	Q9Y5N1	-1.4671
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91235	P14079	Q9Y4E5	-0.22405
91236	P14079	Q9UBG0	-0.8703
91237	P14079	O60814	-0.90191
91238	P14079	Q9BUB4	-0.26704
91239	P14079	Q9H5I5	-1.0235
91240	P14079	P01604	-1
91241	P14079	Q149M9	-0.78428
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91243	P14079	Q9H1C3	-0.91706
91244	P14079	Q14954	-1.0321
91245	P14079	Q96SE0	-0.79952
91246	P14079	Q15005	-0.83978
91247	P14079	Q8NHB7	-1.2314
91248	P14079	Q9BXX2	-0.26849
91249	P14079	Q9NVW2	-0.25567
91250	P14079	Q5T1M5	-0.54333
91251	P14079	P51809	-0.19918
91252	P14079	Q6PHW0	-1.2039
91253	P14079	Q9NYM9	-0.19111
91254	P14079	Q92611	-0.24911
91255	P14079	Q9BX59	-1.0351
91256	P14079	P35625	-0.20962
91257	P14079	Q9Y2D2	-0.5001
91258	P14079	Q99062	-1.9616
91259	P14079	P09038	-0.6974
91260	P14079	P49335	-0.22741
91261	P14079	Q9NYA4	-0.33116
91262	P14079	Q9P0N8	-1.4117
91263	P14079	Q8NFT2	-1.2239
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91266	P14079	O60486	-1.0947
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91268	P14079	Q9ULR3	-0.31581
91269	P14079	Q9H6R6	-1.0628
91270	P14079	Q01484	-0.22774
91271	P14079	Q5TAT6	-1.2153
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91273	P14079	P30301	-1.0266
91274	P14079	P12268	-0.93326
91275	P14079	P09131	-0.81706
91276	P14079	Q8TDF5	-1.1061

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91278	P14079	Q8IW41	-0.49251
91279	P14079	P61204	-0.54708
91280	P14079	P19544	-0.2069
91281	P14079	P45378	-0.14037
91282	P14079	O00469	-0.74714
91283	P14079	Q9C0K3	-0.57688
91284	P14079	Q8TDW5	-0.26938
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91287	P14079	Q8IX05	-0.74766
91288	P14079	Q6S5H4	-0.22682
91289	P14079	Q3SY17	-0.66417
91290	P14079	Q5VST9	-0.96652
91291	P14079	A1KXE4	-0.9156
91292	P14079	Q9HCU5	-0.22737
91293	P14079	P08218	-1.4766
91294	P14079	P41271	-0.61747
91295	P14079	O43581	-1.0743
91296	P14079	Q8TE54	-0.61374
91297	P14079	Q5VY43	-0.92017
91298	P14079	Q0VG99	-0.22828
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91301	P14079	P12821	-0.83057
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91303	P14079	O14924	-0.48889
91304	P14079	P15735	-0.91241
91305	P14079	Q92537	-0.80224
91306	P14079	Q9H4G4	-0.62376
91307	P14079	P29353	-0.22741
91308	P14079	O95497	-0.72138
91309	P14079	Q9NSY1	-1.06
91310	P14079	Q9NZD1	-1.3154
91311	P14079	Q3SXM0	-0.22743
91312	P14079	Q9UP79	-1.3892
91313	P14079	P30926	-0.94721
91314	P14079	Q9BZ71	-0.60389
91315	P14079	Q8NGX8	-1.2314
91316	P14079	Q8N0U8	-0.77815
91317	P14079	Q96JM4	-0.2244
91318	P14079	Q8TC57	-0.82709
91319	P14079	Q9BZH6	-0.58343
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91332	P14079	Q9NSY0	-0.7907
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91334	P14079	P31270	-0.068511
91335	P14079	Q8WXQ8	-1.3084
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91337	P14079	O43184	-0.90887
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91341	P14079	A6NFH5	-0.35425
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91343	P14079	P02774	-0.71848
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91346	P14079	P01767	-1
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91348	P14079	P78314	-0.22727
91349	P14079	Q03405	-0.91025
91350	P14079	Q495W5	-0.64419
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91361	P14079	P08493	-1.0012
91362	P14079	O43795	-0.31435
91363	P14079	Q15846	-0.6741
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91365	Q2Q067	Q8NCL4	-0.73549
91366	Q2Q067	Q9Y5H0	-1.3679
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91368	Q2Q067	Q6IEY1	-1.4096
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91397	Q2Q067	P98198	-1.2036
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91462	Q2Q067	Q96LK8	-0.094271
91463	Q2Q067	Q96QU1	-1.539
91464	Q2Q067	Q9Y2P4	-1.4696
91465	Q2Q067	A5A3E0	-0.24696
91466	Q2Q067	P08514	-0.51957
91467	Q2Q067	O75602	-0.31088
91468	Q2Q067	Q93091	-0.79628
91469	Q2Q067	Q6UXB1	-0.98666
91470	Q2Q067	Q9H336	-0.98666
91471	Q2Q067	Q969T3	-0.67605
91472	Q2Q067	P0CG41	-1.0345
91473	Q2Q067	Q9BY21	-1.3897
91474	Q2Q067	Q9Y257	-1.2542
91475	Q2Q067	P56381	-0.15965
91476	Q2Q067	Q06945	-0.23341
91477	Q2Q067	P30613	-0.39644
91478	Q2Q067	Q16570	-1.3421
91479	Q2Q067	Q6S9Z5	-0.48451
91480	Q2Q067	Q6KF10	-0.65602
91481	Q2Q067	Q8NGR1	-1.4096
91482	Q2Q067	O43825	-0.97656
91483	Q2Q067	O14526	-0.55577
91484	Q2Q067	A1L020	-0.22738
91485	Q2Q067	Q9P0K1	-0.69349
91486	Q2Q067	Q9GZV1	-0.62101
91487	Q2Q067	Q9BX40	-0.49014
91488	Q2Q067	Q9NP84	-0.69732
91489	Q2Q067	Q7LGA3	-0.66256
91490	Q2Q067	Q8NES8	-0.94775
91491	Q2Q067	P21462	-1.104
91492	Q2Q067	H3BS89	-1.0345
91493	Q2Q067	Q9NX07	-0.35827
91494	Q2Q067	P98169	-0.07465
91495	Q2Q067	Q7Z5M8	-0.35973
91496	Q2Q067	Q7Z3B0	-1.0345
91497	Q2Q067	Q9BXP8	-1.7028
91498	Q2Q067	Q9HC38	-0.21265
91499	Q2Q067	Q9P107	-0.49508
91500	Q2Q067	Q9H4G4	-0.89454
91501	Q2Q067	P28472	-1.1254
91502	Q2Q067	P98174	-0.95727
91503	Q2Q067	Q9Y6G1	-1.0345
91504	Q2Q067	Q7Z5A7	-1.5853

91505	Q2Q067	Q9Y6C5	-0.94004
91506	Q2Q067	Q9BRF8	-0.40827
91507	Q2Q067	P10966	-0.94669
91508	Q2Q067	Q9H9A5	-0.13651
91509	Q2Q067	Q14164	-0.22741
91510	Q2Q067	Q8IYD2	-0.22631
91511	Q2Q067	Q8IUB5	-0.90081
91512	Q2Q067	P30566	-0.11104
91513	Q2Q067	Q14320	-0.12359
91514	Q2Q067	Q9NYA3	-0.28132
91515	Q2Q067	P56746	-0.85277
91516	Q2Q067	Q8NBR0	-0.95288
91517	Q2Q067	Q08174	-1.1724
91518	Q2Q067	Q6IEE7	-1.0345
91519	Q2Q067	Q71DI3	-0.55883
91520	Q2Q067	P21283	-0.21411
91521	Q2Q067	Q92817	-0.21862
91522	Q2Q067	P00709	-1.028
91523	Q2Q067	Q9Y388	-0.96284
91524	Q2Q067	Q6AHZ1	-0.22782
91525	Q2Q067	Q96LQ0	-0.41456
91526	Q2Q067	P14174	-0.32
91527	Q2Q067	Q15467	-1.0895
91528	Q2Q067	Q9UQD0	-1.0575
91529	Q2Q067	Q9BRS2	-1.2704
91530	Q2Q067	Q8N7P7	-0.37088
91531	Q2Q067	Q6ZQQ6	-0.19694
91532	Q2Q067	Q58WW2	-0.2274
91533	Q2Q067	Q8NGJ4	-1.4096
91534	Q2Q067	Q96QV6	-0.82527
91535	Q2Q067	O76100	-1.4096
91536	Q2Q067	O00481	-0.41055
91537	Q2Q067	Q15342	-0.73196
91538	Q2Q067	Q4ZJI4	-1.0424
91539	Q2Q067	Q93038	-1.4307
91540	Q2Q067	Q8NGI4	-1.4096
91541	Q2Q067	B5ME19	-0.0791
91542	Q2Q067	Q8NH73	-1.4096
91543	Q2Q067	P60602	-0.58416
91544	Q2Q067	P04278	-0.98725
91545	Q2Q067	Q9Y6N3	-0.96431
91546	Q2Q067	Q96LZ3	-0.45603
91547	Q2Q067	Q14924	-0.47701
91548	Q2Q067	A6NH57	-1.4417
91549	Q2Q067	O60502	-0.13046
91550	Q2Q067	P10696	-0.94561
91551	Q2Q067	Q6UXF1	-0.77947
91552	Q2Q067	Q75056	-1.005
91553	Q2Q067	Q3ZCT8	-0.21584
91554	Q2Q067	Q9H6D8	-1.1229
91555	Q2Q067	P61550	-0.86758
91556	Q2Q067	Q96JJ6	-1.1507
91557	Q2Q067	P0C672	-1.0345
91558	Q2Q067	P24903	-0.83907
91559	Q2Q067	Q96LA5	-1.0816
91560	Q2Q067	Q92784	-0.23003
91561	Q2Q067	Q43670	-0.21033
91562	Q2Q067	Q08881	-0.58099
91563	Q2Q067	P58400	-0.66897
91564	Q2Q067	Q9HAD4	-0.22741
91565	Q2Q067	Q9BYE9	-0.67757
91566	Q2Q067	Q9Y2Y1	-0.11475
91567	Q2Q067	Q43292	-0.45459
91568	Q2Q067	Q5K651	-0.25609
91569	Q2Q067	Q9NX57	-0.98481
91570	Q2Q067	Q97980	-0.06517
91571	Q2Q067	Q9UBL6	-0.49956
91572	Q2Q067	Q8IZ52	-0.61626
91573	Q2Q067	Q8NGG5	-1.4096
91574	Q2Q067	Q8TAX0	-0.20714
91575	Q2Q067	P03886	-0.17084
91576	Q2Q067	P35498	-1.0328
91577	Q2Q067	Q86VF7	-0.52293
91578	Q2Q067	Q9Y5E6	-1.3638
91579	Q2Q067	Q43929	-0.15256
91580	Q2Q067	P15144	-1.071

91581	Q2Q067	Q8WXQ8	-1.3781
91582	Q2Q067	P28845	-1.306
91583	Q2Q067	Q96H15	-1.0345
91584	Q2Q067	Q9Y2K7	-0.22573
91585	Q2Q067	Q9H8M9	-1.2955
91586	Q2Q067	Q9HC57	-0.6912
91587	Q2Q067	Q8NAA5	-0.18333
91588	Q2Q067	Q8TCU4	-0.11744
91589	Q2Q067	Q5BLP8	-0.98666
91590	Q2Q067	Q96P09	-0.52384
91591	Q2Q067	Q96J77	-0.2119
91592	Q2Q067	Q9NS40	-1.1886
91593	Q2Q067	Q6NXP0	-0.45603
91594	Q2Q067	P20062	-1.096
91595	Q2Q067	Q16517	-0.55831
91596	Q2Q067	P48730	-0.22741
91597	Q2Q067	P56202	-0.87119
91598	Q2Q067	Q9H1K6	-0.074535
91599	Q2Q067	Q0VAF6	-0.48196
91600	Q2Q067	Q3LFD5	-0.76972
91601	Q2Q067	A2A3L6	-0.22563
91602	Q2Q067	Q9NW68	-0.14167
91603	Q2Q067	Q96NX9	-0.29161
91604	Q2Q067	P10301	-0.8367
91605	Q2Q067	Q9UEE5	-0.88117
91606	Q2Q067	P10997	-1.1405
91607	Q2Q067	P08473	-0.66457
91608	Q2Q067	Q7L5Y6	-0.12884
91609	Q2Q067	P50440	-0.12359
91610	Q2Q067	Q96CU9	-0.94127
91611	Q2Q067	Q7Z7J7	-1.0345
91612	Q2Q067	O43731	-0.68107
91613	Q2Q067	Q8TCB7	-0.38719
91614	Q2Q067	Q99999	-0.83565
91615	Q2Q067	Q9H9A6	-0.22867
91616	Q2Q067	Q9UNX9	-1.2889
91617	Q2Q067	Q9NWX5	-0.2274
91618	Q2Q067	Q96LZ7	-0.45978
91619	Q2Q067	P22314	-0.23831
91620	Q2Q067	O60237	-0.51255
91621	Q2Q067	H3BV60	-1.0345
91622	Q2Q067	Q9Y5W5	-1.2586
91623	Q2Q067	P20674	-0.27775
91624	Q2Q067	O15121	-0.94231
91625	Q2Q067	P08048	-0.085533
91626	Q2Q067	Q99584	-0.24056
91627	Q2Q067	Q9Y6N5	-0.21333
91628	Q2Q067	P54793	-0.83456
91629	Q2Q067	Q6ZRI0	-0.89466
91630	Q2Q067	P43307	-0.7048
91631	Q2Q067	Q8NDZ6	-1.0345
91632	Q2Q067	P09488	-0.2226
91633	Q2Q067	Q9BZE0	-0.22722
91634	Q2Q067	Q01995	-0.20669
91635	Q2Q067	Q9BYW3	-0.90029
91636	Q2Q067	Q8WUU4	-0.2249
91637	Q2Q067	Q9Y4H2	-0.21193
91638	Q2Q067	Q6B9Z1	-0.98666
91639	Q2Q067	Q5T4T1	-1.0345
91640	Q2Q067	Q9UJP4	-0.211
91641	Q2Q067	P09912	-0.39293
91642	Q2Q067	P57764	-0.35849
91643	Q2Q067	Q8IXI2	-0.69168
91644	Q2Q067	Q8N8F7	-1.0345
91645	Q2Q067	Q9BX51	-0.36767
91646	Q2Q067	O95704	-0.2281
91647	Q2Q067	P13497	-1.2149
91648	Q2Q067	P24310	-0.81433
91649	Q2Q067	Q658T7	-0.045012
91650	Q2Q067	O60662	-0.21889
91651	Q2Q067	Q9BU70	-0.25031
91652	Q2Q067	Q9NPH6	-0.92382
91653	Q2Q067	Q96DZ5	-0.79048
91654	Q2Q067	P60983	-0.77215
91655	Q2Q067	Q8TCW9	-1.4577
91656	Q2Q067	A6NHG4	-0.29742

91657	Q2Q067	P78417	-0.25639
91658	Q2Q067	Q6JVE6	-1.011
91659	Q2Q067	Q6P461	-1.1979
91660	Q2Q067	O60312	-0.79938
91661	Q2Q067	P30460	-1.2066
91662	Q2Q067	Q8WXX5	-0.45109
91663	Q2Q067	Q96BA8	-0.22209
91664	Q2Q067	Q9NQZ6	-0.43755
91665	Q2Q067	P43361	-0.24416
91666	Q2Q067	Q14005	-0.39179
91667	Q2Q067	Q96BZ9	-1.8132
91668	Q2Q067	Q8TC59	-0.55076
91669	Q2Q067	Q5TYW2	-0.51982
91670	Q2Q067	Q5VVJ2	-0.22738
91671	Q2Q067	Q6SJ93	-0.5697
91672	Q2Q067	Q5VSY0	-0.46675
91673	Q2Q067	Q8N966	-1.13
91674	Q2Q067	Q12912	-1.0433
91675	Q2Q067	Q8TC41	-1.267
91676	Q2Q067	Q9NRK6	-1.1687
91677	Q2Q067	P78362	-0.56141
91678	Q2Q067	Q99878	-0.82527
91679	Q2Q067	P46597	-0.19439
91680	Q2Q067	Q15198	-0.82206
91681	Q2Q067	Q9UHP6	-0.24416
91682	Q2Q067	P01111	-0.72783
91683	Q2Q067	Q5XG87	-0.17379
91684	Q2Q067	O60476	-0.61095
91685	Q2Q067	Q96BD0	-1.1388
91686	Q2Q067	Q709F0	-0.48801
91687	Q2Q067	Q8IZC4	-0.87536
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91689	Q2Q067	P84077	-0.22853
91690	Q2Q067	P46721	-1.017
91691	Q2Q067	Q86SJ2	-0.33027
91692	Q2Q067	P55087	-0.72089
91693	Q2Q067	P18084	-0.99703
91694	Q2Q067	Q8TBY9	-0.45603
91695	Q2Q067	Q9NS15	-0.88371
91696	Q2Q067	P02144	-0.49521
91697	Q2Q067	Q68CR1	-1.0345
91698	Q2Q067	Q8TF61	-0.66124
91699	Q2Q067	P32456	-0.37716
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91701	Q2Q067	Q14842	-1.2802
91702	Q2Q067	Q9NQG6	-0.21666
91703	Q2Q067	Q00722	-0.61082
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91705	Q2Q067	Q9BQI6	-0.22741
91706	Q2Q067	Q8NH48	-1.4096
91707	Q2Q067	P83110	-0.86918
91708	Q2Q067	Q96R45	-1.4096
91709	Q2Q067	P19105	-0.36777
91710	Q2Q067	P01909	-0.8793
91711	Q2Q067	Q9Y219	-0.63486
91712	Q2Q067	Q9UKG9	-0.62733
91713	Q2Q067	Q702N8	-0.34141
91714	Q2Q067	O60704	-0.80548
91715	Q2Q067	Q8N8E2	-0.11556
91716	Q2Q067	Q92485	-0.97698
91717	Q2Q067	O14640	-0.16221
91718	Q2Q067	P00326	-0.62398
91719	Q2Q067	Q8TB36	-0.60095
91720	Q2Q067	Q4ZIN3	-0.82814
91721	Q2Q067	Q969H4	-0.2274
91722	Q2Q067	Q9HBU9	-0.88683
91723	Q2Q067	Q14002	-1.148
91724	Q2Q067	O95222	-1.4096
91725	Q2Q067	P01623	-1.1115
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91727	Q2Q067	Q96E22	-1.008
91728	Q2Q067	O00222	-1.3793
91729	Q2Q067	Q9HCS5	-0.24996
91730	Q2Q067	Q15615	-1.4096
91731	Q2Q067	P14867	-0.95142
91732	Q2Q067	Q9UM00	-0.90701

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91734	Q2Q067	Q8NCN2	-0.22686
91735	Q2Q067	Q8WXT5	-0.33602
91736	Q2Q067	Q9UGI8	-0.41525
91737	Q2Q067	Q8NE62	-0.45302
91738	Q2Q067	P55259	-1.166
91739	Q2Q067	P04234	-0.63162
91740	Q2Q067	Q92563	-1.0672
91741	Q2Q067	P98073	-1.4329
91742	Q2Q067	A8MWL7	-1.0345
91743	Q2Q067	P23109	-0.17264
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91746	Q2Q067	Q9Y210	-0.44435
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91750	Q2Q067	Q8WTQ4	-0.0015091
91751	Q2Q067	Q13595	-0.56396
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91760	Q2Q067	Q14541	-0.28333
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91762	Q2Q067	A6NMC2	-0.19475
91763	Q2Q067	Q3ZCW2	-0.63282
91764	Q2Q067	Q6ZMY3	-0.34538
91765	Q2Q067	P29536	-0.24891
91766	Q2Q067	Q53FZ2	-0.79202
91767	Q2Q067	Q9NNX1	-0.98622
91768	Q2Q067	Q9BQ04	-0.46736
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91770	Q2Q067	P20336	-0.42691
91771	Q2Q067	Q92520	-0.93432
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91774	Q2Q067	Q04759	-0.21717
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91776	Q2Q067	Q9NPF4	-0.38125
91777	Q2Q067	Q05952	-1.0264
91778	Q2Q067	Q9BXJ2	-0.78756
91779	Q2Q067	Q9Y573	-0.28426
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91785	Q2Q067	Q8IYQ7	-0.2445
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91792	Q2Q067	Q9GZQ8	-0.32762
91793	Q2Q067	Q8IV48	-0.07508
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91795	Q2Q067	Q8NGL4	-1.4096
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91798	Q2Q067	Q8N8Q1	-1.0481
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91805	Q2Q067	Q7RTT4	-0.16361
91806	Q2Q067	Q7Z7J9	-0.56031
91807	Q2Q067	Q13115	-0.23208
91808	Q2Q067	Q9H3S1	-1.1009

91809	Q2Q067	F7VJQ1	-0.42579
91810	Q2Q067	Q3KQV9	-0.47143
91811	Q2Q067	Q5F1R6	-0.034988
91812	Q2Q067	P23229	-0.37589
91813	Q2Q067	P58550	-1.1958
91814	Q2Q067	Q9NSD5	-1.193
91815	Q2Q067	Q8WUD6	-0.69868
91816	Q2Q067	Q9Y6Y9	-0.08703
91817	Q2Q067	Q96NC0	-0.50923
91818	Q2Q067	Q8IWK6	-1.4997
91819	Q2Q067	P15248	-0.83112
91820	Q2Q067	Q9UII6	-0.91922
91821	Q2Q067	A8MT79	-1.1024
91822	Q2Q067	P51153	-0.73133
91823	Q2Q067	Q06418	-0.79949
91824	Q2Q067	O75459	-0.38152
91825	Q2Q067	O95292	-0.16669
91826	Q2Q067	Q9H089	-0.18411
91827	Q2Q067	A6NI56	-0.099664
91828	Q2Q067	Q92523	-0.795
91829	Q2Q067	O43749	-1.4096
91830	Q2Q067	Q49A17	-0.9122
91831	Q2Q067	A8K979	-0.7497
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91833	Q2Q067	Q6UWW9	-1.0345
91834	Q2Q067	Q7RTR8	-1.3729
91835	Q2Q067	B4DYI2	-0.24088
91836	Q2Q067	Q8NGZ0	-1.4096
91837	Q2Q067	Q9H7F4	-1.0345
91838	Q2Q067	P16152	-0.78932
91839	Q2Q067	P21579	-0.35229
91840	Q2Q067	Q14916	-1.2288
91841	Q2Q067	P62745	-0.2779
91842	Q2Q067	Q99470	-1.1242
91843	Q2Q067	P13535	-0.21158
91844	Q2Q067	O15050	-0.38851
91845	Q2Q067	Q5TEV5	-0.98666
91846	Q2Q067	Q14019	-0.17308
91847	Q2Q067	Q9WJR5	-0.36034
91848	Q2Q067	Q92896	-0.84134
91849	Q2Q067	O75339	-0.9736
91850	Q2Q067	Q05996	-1.1909
91851	Q2Q067	Q9NS61	-0.53799
91852	Q2Q067	Q6YHU6	-0.058388
91853	Q2Q067	Q9UP65	-0.78963
91854	Q2Q067	Q8NGQ4	-1.4096
91855	Q2Q067	Q9H0M0	-0.22741
91856	Q2Q067	Q14183	-0.23786
91857	Q2Q067	Q8N9S9	-0.39054
91858	Q2Q067	Q13332	-0.88173
91859	Q2Q067	Q9BZS1	-0.28739
91860	Q2Q067	P25391	-0.83784
91861	Q2Q067	P02753	-0.36653
91862	Q2Q067	P63119	-0.74403
91863	Q2Q067	Q9UMN6	-0.22683
91864	Q2Q067	Q8WUY1	-0.98666
91865	Q2Q067	Q5T2L2	-0.38128
91866	Q2Q067	Q03164	-0.22709
91867	Q2Q067	Q8NHH9	-0.59628
91868	Q2Q067	A1L4M7	-0.063982
91869	Q2Q067	A1E959	-0.92553
91870	Q2Q067	P17302	-0.34151
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91873	Q2Q067	A6NMB9	-1.0603
91874	Q2Q067	Q6PEY0	-1.1243
91875	Q2Q067	A8MPP1	-0.58623
91876	Q2Q067	Q5JX71	-1.0345
91877	Q2Q067	Q8N5W9	-0.36976
91878	Q2Q067	O95665	-1.5353
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91882	Q2Q067	Q8NGX9	-1.4096
91883	Q2Q067	O75679	-0.48451
91884	Q2Q067	Q9BZJ7	-1.3467

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91886	Q2Q067	P08567	-0.22741
91887	Q2Q067	Q8IXF0	-0.30386
91888	Q2Q067	Q08397	-1.2186
91889	Q2Q067	Q9NZU0	-1.3047
91890	Q2Q067	Q96C36	-0.74658
91891	Q2Q067	O75690	-0.53608
91892	Q2Q067	Q24JP5	-0.75797
91893	Q2Q067	Q9UBX0	-0.20066
91894	Q2Q067	Q9P2S6	-0.48451
91895	Q2Q067	Q9Y275	-0.91225
91896	Q2Q067	Q96MZ4	-0.10159
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91901	Q2Q067	Q6AI12	-0.24416
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91904	Q2Q067	P49190	-1.6173
91905	Q2Q067	Q8IZA3	-0.48774
91906	Q2Q067	Q9UJH8	-1.1552
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91920	Q2Q067	P29375	-0.25757
91921	Q2Q067	Q5T7R7	-1.0345
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91923	Q2Q067	Q9P266	-0.37702
91924	Q2Q067	Q6GPI1	-1.5058
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91936	Q2Q067	Q6H9L7	-0.42866
91937	Q2Q067	Q8IXS6	-0.67176
91938	Q2Q067	P18825	-0.46065
91939	Q2Q067	P07307	-0.54121
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91941	Q2Q067	Q9H992	-0.58666
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91944	Q2Q067	Q9UL15	-0.26951
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91947	Q2Q067	Q0P6D2	-1.1118
91948	Q2Q067	Q9H069	-0.22739
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91953	Q2Q067	P36382	-1.0836
91954	Q2Q067	P40879	-0.66999
91955	Q2Q067	Q9Y2I1	-0.35568
91956	Q2Q067	A6H8M9	-1.3679
91957	Q2Q067	Q6IFH4	-1.4096
91958	Q2Q067	P52895	-0.35383
91959	Q2Q067	Q7L513	-0.89618
91960	Q2Q067	Q9P2K8	-1.0469

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91964	Q2Q067	O95838	-1.3167
91965	Q2Q067	P10826	-0.25025
91966	Q2Q067	Q6ZXV5	-1.0345
91967	Q2Q067	O95989	-0.20982
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91982	Q2Q067	O75936	-0.21368
91983	Q2Q067	Q8NDY8	-1.0345
91984	Q2Q067	Q9H201	-0.00285
91985	Q2Q067	Q6IED9	-0.44707
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91988	Q2Q067	Q14827	-0.73268
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91995	Q2Q067	O43739	-0.62095
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92005	Q2Q067	Q96QD5	-0.2038
92006	Q2Q067	Q9NUG6	-0.23841
92007	Q2Q067	P11230	-0.97917
92008	Q2Q067	Q6V0L0	-0.97631
92009	Q2Q067	Q6JQN1	-0.66114
92010	Q2Q067	Q9Y4L1	-0.67849
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92015	Q2Q067	Q7Z7G1	-0.60404
92016	Q2Q067	Q96PY5	-0.22704
92017	Q2Q067	P12259	-0.51634
92018	Q2Q067	Q14914	-0.75388
92019	Q2Q067	Q9HBU6	-0.76108
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92025	Q2Q067	Q8WYL5	-0.35428
92026	Q2Q067	P02679	-0.93321
92027	Q2Q067	Q86Z02	-0.22741
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92029	Q2Q067	Q9P246	-0.67635
92030	Q2Q067	O75947	-0.26719
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92035	Q2Q067	P55822	-0.29578
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92043	Q2Q067	O14763	-0.43065
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92046	Q2Q067	P49221	-0.44243
92047	Q2Q067	P15509	-1.7855
92048	Q2Q067	Q8NEM2	-0.36034
92049	Q2Q067	Q8NH18	-1.4096
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92053	Q2Q067	O15321	-1.1215
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92056	Q2Q067	Q9Y5R2	-2.0059
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92105	Q2Q067	Q8NGT0	-1.4096
92106	Q2Q067	Q8NDV3	-0.49189
92107	Q2Q067	A6NIJ5	-0.43957
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92152	Q2Q067	P25105	-1.0023
92153	Q2Q067	P48167	-0.53643
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92207	Q2Q067	Q3KR37	-1.0345
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92237	Q2Q067	Q96AA8	-0.2659
92238	Q2Q067	Q9BRK5	-0.22545
92239	Q2Q067	Q13574	-0.22741
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92242	Q2Q067	P28906	-0.58427
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92250	Q2Q067	Q8NGJ7	-1.4096
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92252	Q2Q067	Q8IYU8	-0.28191
92253	Q2Q067	Q9BVS4	-1.2912
92254	Q2Q067	Q9UPU5	-0.76972
92255	Q2Q067	Q9NPE6	-0.71472
92256	Q2Q067	Q15027	-1.1118
92257	Q2Q067	Q3LXA3	-0.97187
92258	Q2Q067	Q96EY7	-0.18605
92259	Q2Q067	P17927	-1.0384
92260	Q2Q067	Q2KHM9	-0.033712
92261	Q2Q067	Q8NFC6	-0.44839
92262	Q2Q067	P01765	-1.1115
92263	Q2Q067	O75912	-0.22741
92264	Q2Q067	P09529	-0.22741

92265	Q2Q067	P80365	-0.69972
92266	Q2Q067	Q9BQD7	-1.0345
92267	Q2Q067	Q8N2B8	-0.076768
92268	Q2Q067	Q9BXC0	-1.4438
92269	Q2Q067	P0C862	-1.0215
92270	Q2Q067	O14682	-0.21644
92271	Q2Q067	Q9BYV1	-0.20578
92272	Q2Q067	Q9H300	-0.8497
92273	Q2Q067	Q969F2	-0.19224
92274	Q2Q067	Q6T4R5	-0.16518
92275	Q2Q067	O14730	-0.66676
92276	Q2Q067	Q6UXB8	-1.5271
92277	Q2Q067	P0CW18	-1.0134
92278	Q2Q067	Q7Z444	-1.5078
92279	Q2Q067	Q9BRI3	-0.85281
92280	Q2Q067	O14513	-0.32909
92281	Q2Q067	P32246	-0.82989
92282	Q2Q067	Q9NY93	-0.58694
92283	Q2Q067	A6NKW6	-1.0345
92284	Q2Q067	Q96DB9	-1.1523
92285	Q2Q067	Q96CT2	-0.21139
92286	Q2Q067	Q96J94	-0.22671
92287	Q2Q067	Q9H426	-0.28403
92288	Q2Q067	Q9H857	-0.40827
92289	Q2Q067	P35325	-0.25317
92290	Q2Q067	Q9Y485	-0.22742
92291	Q2Q067	O15194	-0.095793
92292	Q2Q067	Q9H195	-1.0247
92293	Q2Q067	Q96QV1	-0.54657
92294	Q2Q067	O60814	-0.80644
92295	Q2Q067	Q8NFX7	-0.73239
92296	Q2Q067	P01612	-1.1115
92297	Q2Q067	Q8IYK4	-0.42175
92298	Q2Q067	Q9UL01	-0.47081
92299	Q2Q067	Q8N8Q3	-0.29155
92300	Q2Q067	O14548	-0.21895
92301	Q2Q067	A1KZ92	-0.95481
92302	Q2Q067	P59797	-0.40645
92303	Q2Q067	P35914	-0.38676
92304	Q2Q067	Q8WUY8	-0.35602
92305	Q2Q067	Q8NH83	-1.4096
92306	Q2Q067	P02549	-0.22741
92307	Q2Q067	P41273	-1.1577
92308	Q2Q067	Q96AX2	-0.97611
92309	Q2Q067	P21127	-0.16463
92310	Q2Q067	Q8IY37	-0.94996
92311	Q2Q067	Q93098	-0.88518
92312	Q2Q067	Q99836	-0.2274
92313	Q2Q067	Q9H093	-0.71935
92314	Q2Q067	Q2VIR3	-0.85978
92315	Q2Q067	Q53FE4	-0.072135
92316	Q2Q067	Q8NGT5	-1.4096
92317	Q2Q067	Q07869	-0.27113
92318	Q2Q067	Q96EQ0	-0.22712
92319	Q2Q067	Q9BTT0	-0.22741
92320	Q2Q067	P11413	-0.15466
92321	Q2Q067	Q9H313	-0.92521
92322	Q2Q067	P48740	-1.0186
92323	Q2Q067	Q5SV17	-1.0345
92324	Q2Q067	P16104	-0.31222
92325	Q2Q067	Q9UJW8	-0.085533
92326	Q2Q067	Q7Z5P9	-0.98622
92327	Q2Q067	Q15771	-1.2751
92328	Q2Q067	Q15019	-0.22728
92329	Q2Q067	Q3LI77	-0.10908
92330	Q2Q067	Q96KX0	-0.94068
92331	Q2Q067	Q8NCW6	-0.69795
92332	Q2Q067	Q9BV38	-0.62283
92333	Q2Q067	Q8WUG5	-1.1985
92334	Q2Q067	Q96A05	-0.38096
92335	Q2Q067	Q8N126	-1.0678
92336	Q2Q067	P63098	-0.22764
92337	Q2Q067	P24043	-0.92315
92338	Q2Q067	Q9H156	-1.1214
92339	Q2Q067	Q96S16	-0.13579
92340	Q2Q067	Q9NSY1	-0.86587

92341	Q2Q067	Q8NBI3	-0.92089
92342	Q2Q067	Q96S21	-1.1237
92343	Q2Q067	O14880	-1.1118
92344	Q2Q067	Q96E52	-0.91738
92345	Q2Q067	Q01538	-0.18027
92346	Q2Q067	Q9C0B6	-0.70554
92347	Q2Q067	Q96P50	-1.3713
92348	Q2Q067	Q9H0W7	-0.32396
92349	Q2Q067	O15270	-0.75222
92350	Q2Q067	Q9Y2D4	-0.24627
92351	Q2Q067	Q96DU9	-0.76347
92352	Q2Q067	Q8IW52	-1.1214
92353	Q2Q067	P24311	-0.61522
92354	Q2Q067	P13533	-0.19
92355	Q2Q067	Q9NZP2	-1.4096
92356	Q2Q067	Q9C0C4	-0.86545
92357	Q2Q067	Q3V5L5	-0.90099
92358	Q2Q067	Q8NG11	-1.0345
92359	Q2Q067	Q69YN2	-0.41192
92360	Q2Q067	P37287	-0.43953
92361	Q2Q067	Q6UXP3	-1.0345
92362	Q2Q067	Q8IZM8	-0.2274
92363	Q2Q067	Q16654	-0.53247
92364	Q2Q067	Q24JQ0	-1.0345
92365	Q2Q067	A6NLU5	-1.0345
92366	Q2Q067	O95918	-1.3425
92367	Q2Q067	Q8WUA2	-0.53751
92368	Q2Q067	Q8NGI0	-1.4096
92369	Q2Q067	P51809	-0.21926
92370	Q2Q067	Q9GZR7	-0.55681
92371	Q2Q067	Q9UNI1	-1.1259
92372	Q2Q067	Q2M3C6	-1.0345
92373	Q2Q067	P09486	-0.28704
92374	Q2Q067	Q5T6R2	-0.22997
92375	Q2Q067	Q9H2B4	-1.0365
92376	Q2Q067	Q96I51	-0.22546
92377	Q2Q067	P63122	-0.74403
92378	Q2Q067	P23526	-0.16179
92379	Q2Q067	Q9P0T7	-0.95837
92380	Q2Q067	Q9NPA5	-0.085533
92381	Q2Q067	Q8TBP5	-1.0345
92382	Q2Q067	Q5GAN6	-0.97935
92383	Q2Q067	A6NJ16	-0.98666
92384	Q2Q067	Q05823	-0.41458
92385	Q2Q067	P29508	-0.63126
92386	Q2Q067	Q10588	-1.0916
92387	Q2Q067	Q9NXX6	-1.3916
92388	Q2Q067	Q96JC1	-0.29473
92389	Q2Q067	P22309	-0.53355
92390	Q2Q067	Q96KN9	-1.1243
92391	Q2Q067	O95166	-0.12167
92392	Q2Q067	P31152	-0.72979
92393	Q2Q067	Q86UQ0	-0.15316
92394	Q2Q067	P09543	-0.47127
92395	Q2Q067	Q9BTD3	-0.77947
92396	Q2Q067	Q6P1A2	-0.81404
92397	Q2Q067	Q3KP44	-0.2274
92398	Q2Q067	Q86YD3	-1.6971
92399	Q2Q067	P30462	-1.2066
92400	Q2Q067	Q3SXZ7	-0.45229
92401	Q2Q067	Q9BXB5	-0.9261
92402	Q2Q067	P28827	-0.65306
92403	Q2Q067	Q5JWR5	-0.24487
92404	Q2Q067	O60762	-0.20891
92405	Q2Q067	O43555	-1.3161
92406	Q2Q067	B6SEH8	-1.0345
92407	Q2Q067	Q5PT55	-1.1513
92408	Q2Q067	Q6ZU45	-0.39245
92409	Q2Q067	Q31612	-1.1453
92410	Q2Q067	Q9UIV8	-0.58736
92411	Q2Q067	Q9NZZ2	-0.042213
92412	Q2Q067	Q7Z6W1	-1.0345
92413	Q2Q067	Q99445	-0.56295
92414	Q2Q067	A1A5B4	-1.2393
92415	Q2Q067	Q9HCL0	-1.4592
92416	Q2Q067	Q9BTF0	-0.41073

92417	Q2Q067	P53355	-0.57162
92418	Q2Q067	Q8N4K4	-1.0345
92419	Q2Q067	O00461	-0.30319
92420	Q2Q067	Q9BWU1	-1.0912
92421	Q2Q067	P01774	-1.1115
92422	Q2Q067	P78415	-0.23221
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92424	Q2Q067	Q9HBL7	-1.2038
92425	Q2Q067	Q53GL0	-0.23159
92426	Q2Q067	P13598	-1.3308
92427	Q2Q067	P01816	-1.1115
92428	Q2Q067	Q9BZJ8	-1.3467
92429	Q2Q067	Q14494	-0.22595
92430	Q2Q067	Q9NFB9	-1.5436
92431	Q2Q067	P51991	-0.23812
92432	Q2Q067	Q16635	-0.58193
92433	Q2Q067	Q9BQK8	-0.16578
92434	Q2Q067	P0C2L3	-1.0345
92435	Q2Q067	Q86XR5	-0.89194
92436	Q2Q067	Q7RTM1	-1.5466
92437	Q2Q067	P68133	-0.15414
92438	Q2Q067	Q6Q0C1	-0.85935
92439	Q2Q067	Q9UBS0	-0.70877
92440	Q2Q067	Q92551	-0.44507
92441	Q2Q067	Q6GQQ9	-0.18049
92442	Q2Q067	Q96FC7	-0.21824
92443	Q2Q067	C9JRZ8	-0.56541
92444	Q2Q067	Q9P2P5	-0.41408
92445	Q2Q067	P49279	-0.43265
92446	Q2Q067	Q16774	-0.653
92447	Q2Q067	P00846	-0.56744
92448	Q2Q067	Q9Y6M7	-1.0272
92449	Q2Q067	Q7Z5U6	-0.2275
92450	Q2Q067	Q6NXE6	-0.21745
92451	Q2Q067	A8MXZ1	-0.43957
92452	Q2Q067	O96001	-0.62145
92453	Q2Q067	O95544	-0.77623
92454	Q2Q067	O60813	-0.19475
92455	Q2Q067	P46663	-1.1577
92456	Q2Q067	Q15843	-0.22551
92457	Q2Q067	Q86VD1	-0.6274
92458	Q2Q067	O95340	-0.78686
92459	Q2Q067	Q8TBQ9	-0.82825
92460	Q2Q067	Q5JUK3	-1.5081
92461	Q2Q067	P16118	-0.054553
92462	Q2Q067	P01160	-0.36495
92463	Q2Q067	P08572	-0.57096
92464	Q2Q067	Q8TDQ0	-1.0345
92465	Q2Q067	O95490	-1.2724
92466	Q2Q067	Q96MS3	-0.82794
92467	Q2Q067	Q96A70	-0.25123
92468	Q2Q067	Q9H579	-0.10793
92469	Q2Q067	Q3C1W6	-0.73178
92470	Q2Q067	Q4G0W2	-0.88327
92471	Q2Q067	P23946	-1.5694
92472	Q2Q067	Q14831	-0.77176
92473	Q2Q067	Q96RR1	-0.21792
92474	Q2Q067	Q8NFQ8	-0.63736
92475	Q2Q067	Q9ULI3	-1.056
92476	Q2Q067	Q8NH50	-1.4096
92477	Q2Q067	Q8N5S1	-0.85935
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92479	Q2Q067	P45877	-0.28412
92480	Q2Q067	P16298	-0.18268
92481	Q2Q067	Q96NU1	-0.054655
92482	Q2Q067	O95210	-0.58595
92483	Q2Q067	Q9P0B6	-1.0345
92484	Q2Q067	P09105	-0.42327
92485	Q2Q067	Q9H7H1	-0.17203
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92487	Q2Q067	Q8IV76	-0.32693
92488	Q2Q067	O60547	-0.88329
92489	Q2Q067	P83859	-0.75882
92490	Q2Q067	P01766	-1.1115
92491	Q2Q067	P59551	-1.3377
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92493	Q2Q067	O14977	-0.20484
92494	Q2Q067	O95365	-0.37991
92495	Q2Q067	P48745	-1.1142
92496	Q2Q067	A6NJU9	-1.0345
92497	Q2Q067	P52790	-0.36207
92498	Q2Q067	Q9UIA0	-0.77908
92499	Q2Q067	A8MS94	-0.28132
92500	Q2Q067	Q9P2R3	-0.30541
92501	Q2Q067	Q15036	-0.18196
92502	Q2Q067	Q8NG97	-1.4096
92503	Q2Q067	Q9NYV4	-0.23117
92504	Q2Q067	Q14289	-0.24577
92505	Q2Q067	Q6MZM0	-1.2978
92506	Q2Q067	A6NHG9	-1.4096
92507	Q2Q067	Q8TDG4	-0.49737
92508	Q2Q067	B1AKI9	-0.98666
92509	Q2Q067	P0C1H6	-0.6176
92510	Q2Q067	P17540	-0.9716
92511	Q2Q067	P39060	-0.55363
92512	Q2Q067	Q6ZPB5	-0.23864
92513	Q2Q067	C9JXH3	-0.76972
92514	Q2Q067	Q96N35	-1.0345
92515	Q2Q067	Q75509	-0.31704
92516	Q2Q067	Q13621	-1.0108
92517	Q2Q067	Q9BYV2	-0.87111
92518	Q2Q067	Q96GK7	-0.58869
92519	Q2Q067	Q9UP95	-1.2288
92520	Q2Q067	Q5SR53	-0.21283
92521	Q2Q067	P51172	-0.7092
92522	Q2Q067	P42229	-0.22662
92523	Q2Q067	Q8N4B1	-0.22734
92524	Q2Q067	Q9NRS4	-1.472
92525	Q2Q067	Q96IZ5	-0.96284
92526	Q2Q067	Q58FG0	-0.66086
92527	Q2Q067	Q17R31	-0.13409
92528	Q2Q067	Q6IWH7	-0.55133
92529	Q2Q067	O15551	-1.0051
92530	Q2Q067	P06756	-0.37913
92531	Q2Q067	P20338	-0.30981
92532	Q2Q067	Q3KNS1	-0.82427
92533	Q2Q067	Q99832	-0.31121
92534	Q2Q067	Q92583	-1.3067
92535	Q2Q067	P80098	-1.035
92536	Q2Q067	Q96HU1	-0.27853
92537	Q2Q067	Q9UMX6	-0.72647
92538	Q2Q067	A8MZ26	-0.45603
92539	Q2Q067	Q92673	-1.3603
92540	Q2Q067	Q86V40	-1.3837
92541	Q2Q067	P30041	-0.21872
92542	Q2Q067	Q8N1T3	-0.74612
92543	Q2Q067	P25874	-0.62366
92544	Q2Q067	Q14847	-0.22741
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92546	Q2Q067	Q8IY34	-1.016
92547	Q2Q067	Q5SQ13	-0.086824
92548	Q2Q067	O14904	-0.89627
92549	Q2Q067	A6NM15	-0.91075
92550	Q2Q067	P20645	-1.1012
92551	Q2Q067	Q8N614	-1.0345
92552	Q2Q067	Q6P1Q0	-0.21895
92553	Q2Q067	Q9NRM0	-0.79718
92554	Q2Q067	Q8IY17	-0.85648
92555	Q2Q067	Q9NY72	-0.69461
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92560	Q2Q067	P51692	-0.2268
92561	Q2Q067	Q14807	-0.26584
92562	Q2Q067	P0CAT3	-0.11511
92563	Q2Q067	Q8NH56	-1.4096
92564	Q2Q067	Q495M3	-0.84661
92565	Q2Q067	P55851	-0.58612
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92567	Q2Q067	Q9NYL2	-0.25901
92568	Q2Q067	P54886	-0.65791

92569	Q2Q067	Q9UI46	-0.22749
92570	Q2Q067	P12104	-0.5519
92571	Q2Q067	Q6TDP4	-0.65412
92572	Q2Q067	Q96M95	-0.051997
92573	Q2Q067	O60486	-1.1378
92574	Q2Q067	Q6UWF5	-1.0345
92575	Q2Q067	Q8N5Z5	-0.17958
92576	Q2Q067	P61421	-0.21141
92577	Q2Q067	Q9UQB8	-0.22739
92578	Q2Q067	P01584	-0.2359
92579	Q2Q067	Q96JM4	-0.22657
92580	Q2Q067	P78413	-0.22921
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92582	Q2Q067	Q9BVI0	-0.22739
92583	Q2Q067	Q99819	-0.43024
92584	Q2Q067	Q9H2G2	-1.21
92585	Q2Q067	Q5SY68	-0.50694
92586	Q2Q067	Q6NUQ4	-1.0345
92587	Q2Q067	Q8N6L7	-1.0345
92588	Q2Q067	C9JLJ4	-0.76972
92589	Q2Q067	Q9NVM6	-0.96096
92590	Q2Q067	Q641Q2	-0.6371
92591	Q2Q067	P63128	-0.6331
92592	Q2Q067	Q96Q40	-1.1911
92593	Q2Q067	P69849	-0.99678
92594	Q2Q067	P01833	-1.7088
92595	Q2Q067	Q9NQ03	-0.20516
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92597	Q2Q067	P43686	-0.29476
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92599	Q2Q067	Q13905	-0.23972
92600	Q2Q067	Q96S06	-0.76154
92601	Q2Q067	Q99558	-0.22741
92602	Q2Q067	Q96I13	-0.53802
92603	Q2Q067	Q9ULD8	-1.1194
92604	Q2Q067	Q9BZA8	-1.3679
92605	Q2Q067	Q9Y228	-0.35359
92606	Q2Q067	P51587	-0.17037
92607	Q2Q067	P31997	-0.87945
92608	Q2Q067	Q9C0A0	-1.4429
92609	Q2Q067	O15417	-0.44839
92610	Q2Q067	Q9NUB1	-0.24823
92611	Q2Q067	Q6ZNB7	-1.0975
92612	Q2Q067	P06127	-0.66684
92613	Q2Q067	P30483	-1.1453
92614	Q2Q067	P43681	-0.80497
92615	Q2Q067	Q8IYP9	-1.13
92616	Q2Q067	Q8NFR9	-0.70631
92617	Q2Q067	P13746	-1.0994
92618	Q2Q067	Q75335	-0.14034
92619	Q2Q067	Q7Z7M9	-0.76556
92620	Q2Q067	Q14093	-0.62243
92621	Q2Q067	P35520	-0.2257
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92623	Q2Q067	Q8NEY3	-0.19666
92624	Q2Q067	Q96BR9	-0.22255
92625	Q2Q067	Q8TC44	-0.22751
92626	Q2Q067	Q9NZ45	-0.97687
92627	Q2Q067	P78363	-1.3636
92628	Q2Q067	Q49MI3	-0.32204
92629	Q2Q067	Q8NH43	-1.4096
92630	Q2Q067	Q9UGL1	-0.24533
92631	Q2Q067	Q96MM3	-0.228
92632	Q2Q067	Q6IPM2	-0.21265
92633	Q2Q067	Q8NHL6	-0.35602
92634	Q2Q067	Q5T7N8	-0.19339
92635	Q2Q067	P43652	-1.0114
92636	Q2Q067	P20273	-0.85304
92637	Q2Q067	P56975	-1.4589
92638	Q2Q067	Q15166	-0.87514
92639	Q2Q067	Q13277	-0.25444
92640	Q2Q067	Q9NP55	-1.0417
92641	Q2Q067	Q6IF99	-1.4096
92642	Q2Q067	P01614	-1.1115
92643	Q2Q067	Q9UBV7	-0.62687
92644	Q2Q067	Q9Y6J8	-0.62943



92645	Q2Q067	Q15058	-0.24735
92646	Q2Q067	O95976	-1.256
92647	Q2Q067	P24530	-0.93132
92648	Q2Q067	Q9BQ75	-0.53238
92649	Q2Q067	Q96FX8	-0.27722
92650	Q2Q067	P59045	-0.97031
92651	Q2Q067	Q9BTP6	-0.51084
92652	Q2Q067	Q6IQ23	-0.22741
92653	Q2Q067	P31995	-0.33819
92654	Q2Q067	Q9BUY7	-0.45603
92655	Q2Q067	P63267	-0.56115
92656	Q2Q067	P11086	-0.16416
92657	Q2Q067	Q5VWQ8	-0.25243
92658	Q2Q067	Q9Y493	-1.278
92659	Q2Q067	Q8TCU5	-0.4617
92660	Q2Q067	Q8NGC3	-1.4096
92661	Q2Q067	P52756	-0.22527
92662	Q2Q067	Q9NS39	-0.17813
92663	Q2Q067	Q9ULI0	-1.0263
92664	Q2Q067	P01877	-0.55357
92665	Q2Q067	P12074	-0.1902
92666	Q2Q067	Q8NGQ2	-1.4096
92667	Q2Q067	Q99807	-0.21538
92668	Q2Q067	P34913	-0.38009
92669	Q2Q067	Q9Y3B4	-0.28973
92670	Q2Q067	Q16625	-0.226
92671	Q2Q067	P56706	-0.47245
92672	Q2Q067	Q5XLA6	-0.65847
92673	Q2Q067	P15502	-0.24341
92674	Q2Q067	Q96KT7	-1.0345
92675	Q2Q067	Q9NYV7	-0.70602
92676	Q2Q067	Q13237	-1.0893
92677	Q2Q067	Q92819	-0.84576
92678	Q2Q067	Q9NZH6	-0.2861
92679	Q2Q067	O75023	-1.0791
92680	Q2Q067	P61073	-0.39055
92681	Q2Q067	Q8NEE8	-0.22737
92682	Q2Q067	Q6UXZ3	-0.48734
92683	Q2Q067	P51688	-0.54359
92684	Q2Q067	P04280	-0.86843
92685	Q2Q067	Q8WXF0	-0.47683
92686	Q2Q067	Q9NQZ5	-0.21265
92687	Q2Q067	P51617	-0.22738
92688	Q2Q067	B6SEH9	-1.0345
92689	Q2Q067	A2RUU4	-0.98967
92690	Q2Q067	Q9UBI6	-0.63925
92691	Q2Q067	Q9Y5C1	-0.68454
92692	Q2Q067	Q6ZMB0	-0.82058
92693	Q2Q067	Q16473	-0.24416
92694	Q2Q067	O60427	-0.27767
92695	Q2Q067	Q13303	-0.93876
92696	Q2Q067	Q4G0S7	-0.11595
92697	Q2Q067	Q8N6Y1	-1.3679
92698	Q2Q067	P07550	-0.33413
92699	Q2Q067	Q9H936	-0.3033
92700	Q2Q067	O15244	-1.0127
92701	Q2Q067	Q8IZD0	-0.18878
92702	Q2Q067	Q8IZF3	-1.5126
92703	Q2Q067	Q8TEC5	-0.2274
92704	Q2Q067	Q9NYX4	-1.1879
92705	Q2Q067	Q6ISS4	-0.98666
92706	Q2Q067	Q8TE57	-1.4569
92707	Q2Q067	Q15389	-0.54922
92708	Q2Q067	A8MTL3	-0.48451
92709	Q2Q067	Q6UWJ8	-1.0345
92710	Q2Q067	O95382	-1.4193
92711	Q2Q067	Q8IYX8	-0.10656
92712	Q2Q067	Q92833	-0.3054
92713	Q2Q067	P31273	-0.21042
92714	Q2Q067	Q6P1M0	-1.2492
92715	Q2Q067	Q8TE68	-0.22741
92716	Q2Q067	Q96NZ1	-0.44783
92717	Q2Q067	Q9ULG6	-0.90054
92718	Q2Q067	P01033	-0.27919
92719	Q2Q067	Q86UK5	-0.73017
92720	Q2Q067	A8MWD9	-0.18174

92721	Q2Q067	Q9GZT4	-0.61605
92722	Q2Q067	Q9H7T0	-1.2181
92723	Q2Q067	Q96JP9	-1.3651
92724	Q2Q067	Q2M2D7	-1.0238
92725	Q2Q067	Q04771	-0.39131
92726	Q2Q067	Q9BWT3	-0.54762
92727	Q2Q067	Q9H2M3	-0.28231
92728	Q2Q067	Q9H173	-0.19656
92729	Q2Q067	P51693	-0.29783
92730	Q2Q067	Q92982	-1.0425
92731	Q2Q067	Q8NGG1	-1.3053
92732	Q2Q067	Q9H6R0	-0.34588
92733	Q2Q067	Q8NAG6	-0.28235
92734	Q2Q067	O60235	-1.9775
92735	Q2Q067	P51690	-0.46805
92736	Q2Q067	P14210	-0.36128
92737	Q2Q067	Q9H772	-0.9397
92738	Q2Q067	P31944	-0.39307
92739	Q2Q067	Q9Y586	-0.16321
92740	Q2Q067	O15013	-0.29293
92741	Q2Q067	Q8IZ69	-0.81373
92742	Q2Q067	Q9HBH9	-0.87152
92743	Q2Q067	P19526	-0.85088
92744	Q2Q067	Q14011	-0.21562
92745	Q2Q067	Q17RP2	-0.16018
92746	Q2Q067	Q6ZV80	-0.021675
92747	Q2Q067	P26951	-1.0866
92748	Q2Q067	Q8IZ07	-0.22741
92749	Q2Q067	Q5VVQ6	-0.43445
92750	Q2Q067	P18464	-1.1453
92751	Q2Q067	Q92503	-0.98886
92752	Q2Q067	Q14679	-0.51377
92753	Q2Q067	P35858	-0.80755
92754	Q2Q067	Q96GE9	-1.0345
92755	Q2Q067	O95167	-0.56537
92756	Q2Q067	Q8N9F7	-0.79504
92757	Q2Q067	Q8TE99	-0.92834
92758	Q2Q067	O76061	-0.80874
92759	Q2Q067	Q52WX2	-1.2491
92760	Q2Q067	Q9H0R6	-0.59546
92761	Q2Q067	Q8NGE9	-1.4096
92762	Q2Q067	P48739	-0.4742
92763	Q2Q067	O00744	-0.40792
92764	Q2Q067	P38606	-0.64387
92765	Q2Q067	Q9BYC2	-0.34339
92766	Q2Q067	Q9UBT7	-0.31345
92767	Q2Q067	Q8IVW6	-0.21151
92768	Q2Q067	P84157	-1.0345
92769	Q2Q067	Q96T49	-0.2274
92770	Q2Q067	B9A014	-0.014931
92771	Q2Q067	P31146	-0.22741
92772	Q2Q067	O43603	-1.3362
92773	Q2Q067	Q5TA77	-0.37794
92774	Q2Q067	P05556	-0.25013
92775	Q2Q067	Q6ZNC8	-0.86832
92776	Q2Q067	O94985	-1.1805
92777	Q2Q067	P48547	-1.0103
92778	Q2Q067	Q9H461	-0.5826
92779	Q2Q067	Q9NVL1	-0.22988
92780	Q2Q067	P48775	-0.36045
92781	Q2Q067	Q9NXJ5	-0.46473
92782	Q2Q067	Q5RGS2	-1.0345
92783	Q2Q067	A5PLK6	-1.0088
92784	Q2Q067	Q6UX73	-0.98666
92785	Q2Q067	P54855	-1.0359
92786	Q2Q067	Q6P4A8	-0.68927
92787	Q2Q067	Q06190	-0.09641
92788	Q2Q067	P15289	-0.65575
92789	Q2Q067	Q9H6H4	-1.0345
92790	Q2Q067	Q9NY57	-1.4247
92791	Q2Q067	Q6NVV9	-0.58211
92792	Q2Q067	Q7L211	-0.97833
92793	Q2Q067	Q92997	-0.19761
92794	Q2Q067	Q5T6L9	-1.0345
92795	Q2Q067	P55287	-1.3128
92796	Q2Q067	Q8WWX8	-1.1517

92797	Q2Q067	Q96GF1	-1.0225
92798	Q2Q067	P61764	-0.21966
92799	Q2Q067	Q4QY38	-0.94775
92800	Q2Q067	Q8NBR9	-0.18001
92801	Q2Q067	Q9BRV3	-0.54282
92802	Q2Q067	Q9Y251	-0.26591
92803	Q2Q067	P35670	-0.37087
92804	Q2Q067	Q9BQQ7	-0.1403
92805	Q2Q067	Q8NHV1	-1.0835
92806	Q2Q067	Q8NEV4	-0.91496
92807	Q2Q067	Q5QNW6	-0.82527
92808	Q2Q067	P0C7M7	-0.90533
92809	Q2Q067	A1A4T8	-0.1515
92810	Q2Q067	A4QN01	-0.16442
92811	Q2Q067	P54756	-1.1167
92812	Q2Q067	P28562	-0.23406
92813	Q2Q067	Q9Y2Q5	-0.46146
92814	Q2Q067	O14793	-0.48139
92815	Q2Q067	Q8N2G8	-0.17281
92816	Q2Q067	P31785	-0.98802
92817	Q2Q067	Q504Y2	-1.0083
92818	Q2Q067	Q19T08	-1.4076
92819	Q2Q067	P53004	-0.5613
92820	Q2Q067	Q6ZW05	-0.76252
92821	Q2Q067	Q96MP5	-0.48451
92822	Q2Q067	Q96FM1	-0.82956
92823	Q2Q067	Q9Y3M8	-0.25777
92824	Q2Q067	O14545	-0.68159
92825	Q2Q067	Q9NQV6	-0.15582
92826	Q2Q067	Q8NHB8	-1.4096
92827	Q2Q067	P60893	-1.4967
92828	Q2Q067	P0C7X4	-0.36032
92829	Q2Q067	Q96L73	-0.22751
92830	Q2Q067	Q9BX84	-1.0487
92831	Q2Q067	Q7RTV5	-0.20112
92832	Q2Q067	Q99935	-0.91914
92833	Q2Q067	Q0WX57	-0.29263
92834	Q2Q067	Q86VE3	-0.42319
92835	Q2Q067	Q6ZU82	-0.38123
92836	Q2Q067	Q9Y3Q7	-1.4693
92837	Q2Q067	Q86VV4	-0.5643
92838	Q2Q067	Q9NSK7	-0.74406
92839	Q2Q067	O95263	-0.22697
92840	Q2Q067	A0AUZ9	-0.26012
92841	Q2Q067	O00322	-0.96454
92842	Q2Q067	Q9HAU8	-0.87727
92843	Q2Q067	Q0VGL1	-0.68996
92844	Q2Q067	P05129	-0.54833
92845	Q2Q067	A8MXU0	-0.94775
92846	Q2Q067	Q96M27	-0.28132
92847	Q2Q067	Q86YS7	-0.58827
92848	Q2Q067	Q6WN34	-0.77613
92849	Q2Q067	O15399	-0.893
92850	Q2Q067	Q16134	-0.38986
92851	Q2Q067	Q16832	-1.2307
92852	Q2Q067	P00738	-0.85295
92853	Q2Q067	O14625	-1.2285
92854	Q2Q067	P35555	-0.80498
92855	Q2Q067	Q96R67	-1.4096
92856	Q2Q067	P22694	-0.22688
92857	Q2Q067	Q6ZMR3	-0.2605
92858	Q2Q067	Q9BR26	-1.0157
92859	Q2Q067	Q2M3A8	-0.10168
92860	Q2Q067	Q9Y6Z2	-0.24416
92861	Q2Q067	Q9HDB5	-1.1939
92862	Q2Q067	Q7Z569	-0.25942
92863	Q2Q067	Q13683	-0.82549
92864	Q2Q067	Q8IXB1	-0.3686
92865	Q2Q067	Q8IY26	-1.1058
92866	Q2Q067	Q9HCE5	-0.090091
92867	Q2Q067	Q9BU23	-1.1118
92868	Q2Q067	O75191	-0.88681
92869	Q2Q067	Q08AE8	-0.12664
92870	Q2Q067	Q9NQZ7	-0.9363
92871	Q2Q067	Q5TGI0	-1.0345
92872	Q2Q067	Q9Y230	-0.2273

92873	Q2Q067	Q9NZI8	-0.22612
92874	Q2Q067	Q7Z2Z2	-0.69618
92875	Q2Q067	Q9UHV5	-0.88973
92876	Q2Q067	Q8TE96	-0.55742
92877	Q2Q067	P01616	-1.101
92878	Q2Q067	O75970	-0.22699
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92880	Q2Q067	Q9UHW9	-1.0419
92881	Q2Q067	Q96NS5	-0.22742
92882	Q2Q067	O43915	-0.73336
92883	Q2Q067	Q6ZMJ4	-0.80281
92884	Q2Q067	Q9H665	-0.48734
92885	Q2Q067	A8MV23	-0.78629
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92887	Q2Q067	Q8WV15	-1.0345
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92892	Q2Q067	O60610	-0.22729
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92899	Q2Q067	P33032	-1.0336
92900	Q2Q067	Q9BSA4	-0.59097
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92902	Q2Q067	Q6FI13	-0.82527
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92904	Q2Q067	P00374	-0.10405
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92908	Q2Q067	Q9P109	-0.60003
92909	Q2Q067	Q9UMF0	-1.393
92910	Q2Q067	P86791	-0.69118
92911	Q2Q067	P30954	-1.4695
92912	Q2Q067	Q8WVS4	-0.22273
92913	Q2Q067	P63252	-1.5279
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92916	Q2Q067	Q96M98	-0.27321
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92918	Q2Q067	P35030	-1.0353
92919	Q2Q067	Q8N119	-1.4994
92920	Q2Q067	P0C7W8	-0.43957
92921	Q2Q067	Q99592	-0.23535
92922	Q2Q067	P19652	-0.98724
92923	Q2Q067	Q15517	-0.90742
92924	Q2Q067	Q8TB92	-0.36218
92925	Q2Q067	O00748	-0.28192
92926	Q2Q067	Q7Z6P3	-1.2693
92927	Q2Q067	Q9BZY9	-0.4815
92928	Q2Q067	P0C5Z0	-0.81722
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92930	Q2Q067	P98175	-0.6501
92931	Q2Q067	Q9HC98	-0.33706
92932	Q2Q067	Q7L775	-0.37256
92933	Q2Q067	Q8TD46	-0.93034
92934	Q2Q067	Q15394	-1.3329
92935	Q2Q067	Q86UZ6	-0.22828
92936	Q2Q067	A8MT33	-0.36741
92937	Q2Q067	A8MT82	-1.1564
92938	Q2Q067	A6NI61	-1.0345
92939	Q2Q067	Q9BX63	-0.29856
92940	Q2Q067	Q9NUY8	-1.0238
92941	Q2Q067	P24071	-1.7806
92942	Q2Q067	P08240	-1.1388
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92945	Q2Q067	O95407	-0.3346
92946	Q2Q067	Q9H2W1	-1.0345
92947	Q2Q067	Q8NHJ6	-0.67154
92948	Q2Q067	Q8NGN4	-1.4096

92949	Q2Q067	Q9UKP6	-1.0473
92950	Q2Q067	O15021	-1.2968
92951	Q2Q067	Q580R0	-0.25339
92952	Q2Q067	Q6VAB6	-0.72268
92953	Q2Q067	Q12849	-0.55715
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92955	Q2Q067	Q8NH59	-1.4096
92956	Q2Q067	P02766	-0.23918
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92974	Q2Q067	O15432	-1.2266
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92976	Q2Q067	Q14469	-0.2265
92977	Q2Q067	Q5TFQ8	-1.0345
92978	Q2Q067	Q5VZ72	-1.0788
92979	Q2Q067	Q6ZUV0	-0.18029
92980	Q2Q067	P32248	-0.54287
92981	Q2Q067	Q0D2H9	-0.28132
92982	Q2Q067	Q9NPE2	-0.77445
92983	Q2Q067	P07099	-0.98477
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92985	Q2Q067	Q9Y225	-0.89412
92986	Q2Q067	Q8NHP8	-0.61382
92987	Q2Q067	Q99767	-0.22723
92988	Q2Q067	Q9NY46	-0.96174
92989	Q2Q067	Q15700	-0.21172
92990	Q2Q067	P0CG36	-1.1655
92991	Q2Q067	Q3ZCM7	-0.75936
92992	Q2Q067	P23443	-0.21415
92993	Q2Q067	Q9H3N8	-1.4553
92994	Q2Q067	Q8IU54	-0.78629
92995	Q2Q067	Q8WVE0	-0.40146
92996	Q2Q067	Q3B7I2	-0.15265
92997	Q2Q067	Q8N268	-0.11088
92998	Q2Q067	Q71H61	-1.0356
92999	Q2Q067	Q6NVU6	-0.24314
93000	Q2Q067	Q9NRM1	-1.137
93001	Q2Q067	Q8TBZ3	-0.22742
93002	Q2Q067	P17181	-1.0591
93003	Q2Q067	Q9BXI2	-0.69359
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93006	Q2Q067	P59542	-1.3729
93007	Q2Q067	Q9UK28	-0.82825
93008	Q2Q067	O14581	-1.4096
93009	Q2Q067	Q9P2G9	-0.21523
93010	Q2Q067	Q8N806	-0.58215
93011	Q2Q067	Q8N7X0	-0.74972
93012	Q2Q067	Q9Y5E2	-1.3351
93013	Q2Q067	Q5VV41	-0.22873
93014	Q2Q067	P55291	-1.252
93015	Q2Q067	O75553	-0.48089
93016	Q2Q067	Q9UHH9	-0.53773
93017	Q2Q067	Q8N4E7	-0.077234
93018	Q2Q067	Q5VWZ2	-0.16552
93019	Q2Q067	O14617	-0.18596
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93021	Q2Q067	P49902	-0.093077
93022	Q2Q067	P19021	-0.85917
93023	Q2Q067	Q8IWF7	-0.40349
93024	Q2Q067	Q8NC42	-1.1727

93025	Q2Q067	Q86UN2	-0.65911
93026	Q2Q067	P0C7W9	-0.43957
93027	Q2Q067	Q13202	-0.57459
93028	Q2Q067	P01570	-0.86951
93029	Q2Q067	Q12870	-0.22792
93030	Q2Q067	Q8WTV0	-0.46702
93031	Q2Q067	Q13459	-0.26502
93032	Q2Q067	Q9Y5I7	-0.89565
93033	Q2Q067	Q02297	-0.27844
93034	Q2Q067	Q30KQ5	-0.94775
93035	Q2Q067	P26374	-0.78773
93036	Q2Q067	O15444	-1.101
93037	Q2Q067	O95479	-0.70526
93038	Q2Q067	P23945	-0.7507
93039	Q2Q067	P08311	-1.248
93040	Q2Q067	Q9NX94	-1.0345
93041	Q2Q067	Q9NRG0	-0.37157
93042	Q2Q067	Q9Y4K0	-0.38201
93043	Q2Q067	Q99519	-0.56683
93044	Q2Q067	Q9NZJ5	-0.41761
93045	Q2Q067	Q9P2N4	-1.4538
93046	Q2Q067	P80162	-1.2657
93047	Q2Q067	P0CG38	-0.4135
93048	Q2Q067	P56556	-0.23196
93049	Q2Q067	Q7Z429	-1.0345
93050	Q2Q067	Q2TBE0	-0.5697
93051	Q2Q067	Q9BR77	-0.21094
93052	Q2Q067	Q5I0X7	-0.43841
93053	Q2Q067	Q6PH81	-0.028595
93054	Q2Q067	P59910	-0.38367
93055	Q2Q067	P23434	-0.21939
93056	Q2Q067	Q9NPH9	-0.46251
93057	Q2Q067	P56750	-0.7577
93058	Q2Q067	Q6UWN5	-0.65821
93059	Q2Q067	Q6X4U4	-0.98439
93060	Q2Q067	P35626	-1.3417
93061	Q2Q067	Q15149	-0.22766
93062	Q2Q067	Q9H6K4	-0.39421
93063	Q2Q067	Q96BI3	-0.41459
93064	Q2Q067	Q9UEW3	-1.1605
93065	Q2Q067	P19237	-0.25302
93066	Q2Q067	Q6N022	-0.47415
93067	Q2Q067	Q8NDX6	-0.23275
93068	Q2Q067	Q6UXN7	-0.73411
93069	Q2Q067	A7XYQ1	-0.50277
93070	Q2Q067	O95057	-1.5078
93071	Q2Q067	Q6ZNB5	-0.053162
93072	Q2Q067	Q8TET4	-0.36772
93073	Q2Q067	Q9H342	-1.4096
93074	Q2Q067	Q9UIB8	-1.3476
93075	Q2Q067	A6NKZ8	-0.65192
93076	Q2Q067	P61163	-0.11674
93077	Q2Q067	Q96G01	-0.19553
93078	Q2Q067	Q6UW78	-0.98666
93079	Q2Q067	Q9NZJ6	-0.18351
93080	Q2Q067	Q7Z2H8	-0.97274
93081	Q2Q067	Q9Y6Q3	-0.22281
93082	Q2Q067	P01233	-0.85756
93083	Q2Q067	Q9BT09	-0.40014
93084	Q2Q067	Q8IVF6	-0.22739
93085	Q2Q067	Q14444	-0.42345
93086	Q2Q067	Q9NP94	-1.2008
93087	Q2Q067	Q495T6	-1.6848
93088	Q2Q067	Q7Z5Y6	-0.97332
93089	Q2Q067	Q6P5S7	-0.79095
93090	Q2Q067	Q9NP08	-0.22767
93091	Q2Q067	P08247	-0.66528
93092	Q2Q067	Q96MD7	-0.20893
93093	Q2Q067	Q96NL6	-0.16617
93094	Q2Q067	P25189	-1.186
93095	Q2Q067	Q96SY0	-0.050525
93096	Q2Q067	Q14032	-0.27309
93097	Q2Q067	Q9NSE2	-0.22741
93098	Q2Q067	Q6UXU0	-0.98666
93099	Q2Q067	Q9UKW4	-0.29923
93100	Q2Q067	Q8N9F0	-0.70212

93101	Q2Q067	Q9NXT0	-0.085533
93102	Q2Q067	O60443	-0.22772
93103	Q2Q067	Q8NBQ5	-1.1889
93104	Q2Q067	Q9BWS9	-0.89576
93105	Q2Q067	Q13018	-1.3795
93106	Q2Q067	Q8WW43	-0.47419
93107	Q2Q067	Q0VAK6	-0.22109
93108	Q2Q067	C9J442	-0.98666
93109	Q2Q067	Q0VD83	-0.84267
93110	Q2Q067	Q75NE6	-1.0345
93111	Q2Q067	O75417	-0.66978
93112	Q2Q067	Q9NX76	-1.0608
93113	Q2Q067	Q6Y2X3	-0.43038
93114	Q2Q067	Q9NYA4	-0.38101
93115	Q2Q067	Q9HBW9	-1.496
93116	Q2Q067	Q9BZV2	-0.86219
93117	Q2Q067	Q96LP6	-0.0766
93118	Q2Q067	Q9HB21	-0.22741
93119	Q2Q067	Q9BY64	-1.1064
93120	Q2Q067	P13945	-0.49057
93121	Q2Q067	P07911	-0.83166
93122	Q2Q067	O95299	-0.11746
93123	Q2Q067	Q9NZ01	-0.53912
93124	Q2Q067	Q13145	-0.60866
93125	Q2Q067	P86434	-0.14493
93126	Q2Q067	Q9PON9	-0.58018
93127	Q2Q067	Q6UXV3	-0.98666
93128	Q2Q067	P0C881	-0.16798
93129	Q2Q067	Q68DE3	-0.30622
93130	Q2Q067	Q8N350	-1.0345
93131	Q2Q067	P30520	-0.73205
93132	Q2Q067	O14791	-0.6805
93133	Q2Q067	Q9BXU1	-1.3228
93134	Q2Q067	P27708	-0.43651
93135	Q2Q067	Q96AZ6	-0.26785
93136	Q2Q067	Q02763	-0.51555
93137	Q2Q067	Q8IVU3	-0.25149
93138	Q2Q067	P51582	-1.2911
93139	Q2Q067	O14957	-0.67999
93140	Q2Q067	P33241	-0.92755
93141	Q2Q067	Q6UY09	-1.0345
93142	Q2Q067	P01574	-0.46231
93143	Q2Q067	Q92888	-0.36853
93144	Q2Q067	Q14055	-0.97636
93145	Q2Q067	Q9Y287	-0.21567
93146	Q2Q067	Q96DD0	-0.25999
93147	Q2Q067	Q8NBC4	-0.20901
93148	Q2Q067	P09651	-0.26537
93149	Q2Q067	Q8IY22	-0.14159
93150	Q2Q067	Q94808	-0.1606
93151	Q2Q067	Q86U10	-0.41643
93152	Q2Q067	Q9Y256	-1.2979
93153	Q2Q067	O75344	-0.62131
93154	Q2Q067	P0C626	-1.4202
93155	Q2Q067	O60636	-1.1208
93156	Q2Q067	Q9NYW6	-1.3035
93157	Q2Q067	Q8TDX6	-0.50139
93158	Q2Q067	O43426	-0.37882
93159	Q2Q067	Q92537	-0.77947
93160	Q2Q067	Q96A46	-1.0334
93161	Q2Q067	Q9P0U3	-0.17435
93162	Q2Q067	P63145	-0.47805
93163	Q2Q067	O60243	-0.78873
93164	Q2Q067	Q9BZA7	-1.5027
93165	Q2Q067	Q5VU97	-1.1323
93166	Q2Q067	Q6DHV7	-0.21342
93167	Q2Q067	P50148	-0.84564
93168	Q2Q067	A4D161	-0.15937
93169	Q2Q067	Q6DN12	-0.99575
93170	Q2Q067	P0C6S8	-1.0345
93171	Q2Q067	Q14571	-0.62642
93172	Q2Q067	O95630	-0.23765
93173	Q2Q067	P47881	-1.4096
93174	Q2Q067	P19086	-1.1259
93175	Q2Q067	Q6PJF5	-1.1147
93176	Q2Q067	Q13596	-0.22661

93177	Q2Q067	P02810	-0.40114
93178	Q2Q067	P30679	-0.99684
93179	Q2Q067	Q9H112	-0.23777
93180	Q2Q067	Q8NH04	-1.4096
93181	Q2Q067	Q14246	-1.7213
93182	Q2Q067	P56937	-1.3146
93183	Q2Q067	Q9NVH1	-0.29776
93184	Q2Q067	Q9P2W3	-0.63848
93185	Q2Q067	Q5JT25	-1.0904
93186	Q2Q067	O15123	-0.58808
93187	Q2Q067	O60902	-0.17382
93188	Q2Q067	P0C221	-0.20805
93189	Q2Q067	Q6P2I7	-0.11861
93190	Q2Q067	P63261	-0.10741
93191	Q2Q067	P04207	-1.1115
93192	Q2Q067	Q8WXI2	-0.47907
93193	Q2Q067	Q9Y5Q6	-0.85883
93194	Q2Q067	Q9NWH2	-1.0345
93195	Q2Q067	P33764	-0.50694
93196	Q2Q067	H3BSY2	-0.28132
93197	Q2Q067	E9PB15	-0.0040899
93198	Q2Q067	Q8NGC2	-1.4096
93199	Q2Q067	Q96PX8	-1.1214
93200	Q2Q067	Q9H6L2	-1.0862
93201	Q2Q067	Q15940	-0.74229
93202	Q2Q067	Q7Z698	-0.21017
93203	Q2Q067	P09455	-0.54258
93204	Q2Q067	Q8IVW4	-0.90164
93205	Q2Q067	Q9HC56	-1.3081
93206	Q2Q067	Q16281	-1.6111
93207	Q2Q067	Q8WWN9	-0.63569
93208	Q2Q067	Q86UQ5	-1.0345
93209	Q2Q067	P53420	-1.0068
93210	Q2Q067	Q95365	-1.1453
93211	Q2Q067	Q8TE54	-0.66411
93212	Q2Q067	Q9Y216	-0.35895
93213	Q2Q067	Q8N3C7	-0.22741
93214	Q2Q067	Q14562	-0.2144
93215	Q2Q067	Q7Z572	-0.45603
93216	Q2Q067	Q7Z6A9	-1.1866
93217	Q2Q067	Q1HG44	-0.92178
93218	Q2Q067	P49748	-0.33393
93219	Q2Q067	P33681	-0.40599
93220	Q2Q067	Q9NX02	-0.22732
93221	Q2Q067	Q8TD08	-1.4448
93222	Q2Q067	P57103	-0.95823
93223	Q2Q067	O43315	-0.7003
93224	Q2Q067	P29377	-0.41688
93225	Q2Q067	Q9H6L5	-0.85872
93226	Q2Q067	P48065	-1.1906
93227	Q2Q067	P0CG37	-1.0598
93228	Q2Q067	Q59EK9	-0.50714
93229	Q2Q067	Q9Y698	-0.65988
93230	Q2Q067	Q9Y3C6	-0.31294
93231	Q2Q067	Q9NR16	-1.6623
93232	Q2Q067	Q8NFW8	-0.091378
93233	Q2Q067	P06703	-0.23142
93234	Q2Q067	P60763	-0.68072
93235	Q2Q067	O75840	-0.22625
93236	Q2Q067	Q6NXP6	-0.76681
93237	Q2Q067	O60931	-1.18
93238	Q2Q067	Q53H96	-0.93328
93239	Q2Q067	Q9NVE5	-0.76972
93240	Q2Q067	Q8WZA6	-1.4096
93241	Q2Q067	Q6ZMI3	-1.3661
93242	Q2Q067	Q6PEW1	-0.056856
93243	Q2Q067	Q8TDC3	-0.78584
93244	Q2Q067	Q9C0G0	-0.085533
93245	Q2Q067	O95343	-0.22772
93246	Q2Q067	P29122	-1.0884
93247	Q2Q067	O75914	-0.87778
93248	Q2Q067	P52888	-0.63588
93249	Q2Q067	Q629K1	-1.1118
93250	Q2Q067	Q8N5S9	-0.76527
93251	Q2Q067	Q6ZMN7	-0.55187
93252	Q2Q067	Q9H2W2	-0.21925



93253	Q2Q067	P27918	-1.0326
93254	Q2Q067	Q9UKF7	-0.38165
93255	Q2Q067	Q8TDS4	-1.2201
93256	Q2Q067	Q12791	-0.79109
93257	Q2Q067	Q8IVQ6	-0.68018
93258	Q2Q067	Q96CQ1	-0.82477
93259	Q2Q067	Q96MX3	-0.085533
93260	Q2Q067	Q49AG3	-0.52609
93261	Q2Q067	Q9UBR2	-0.96005
93262	Q2Q067	Q8IX01	-0.16977
93263	Q2Q067	Q96S86	-1.1911
93264	Q2Q067	Q9Y234	-0.40887
93265	Q2Q067	O95249	-0.42923
93266	Q2Q067	Q6UWS5	-0.21265
93267	Q2Q067	Q8N4S7	-1.0345
93268	Q2Q067	Q5QGZ9	-1.146
93269	Q2Q067	Q9UK33	-0.21518
93270	Q2Q067	P14735	-0.33183
93271	Q2Q067	Q9Y5S8	-0.48605
93272	Q2Q067	Q96MA6	-0.68703
93273	Q2Q067	P38571	-0.55811
93274	Q2Q067	P06401	-0.22742
93275	Q2Q067	P13385	-0.22744
93276	Q2Q067	Q9UGF5	-1.4096
93277	Q2Q067	Q17RY6	-0.44234
93278	Q2Q067	P34947	-0.67534
93279	Q2Q067	Q7L7X3	-0.69016
93280	Q2Q067	Q9H5Y0	-0.28132
93281	Q2Q067	Q9UQ13	-0.23982
93282	Q2Q067	P13762	-0.79235
93283	Q2Q067	O15393	-1.8676
93284	Q2Q067	Q6PJ69	-0.73178
93285	Q2Q067	Q6NT16	-1.049
93286	Q2Q067	P58170	-1.4096
93287	Q2Q067	O75844	-1.1397
93288	Q2Q067	P16444	-0.52802
93289	Q2Q067	Q99624	-1.1176
93290	Q2Q067	P00973	-0.53654
93291	Q2Q067	P55268	-0.81532
93292	Q2Q067	Q9NZJ7	-0.25835
93293	Q2Q067	Q96QS3	-0.16081
93294	Q2Q067	Q07343	-0.22357
93295	Q2Q067	Q7Z3J3	-0.48206
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93297	Q2Q067	P0DJD9	-1.2971
93298	Q2Q067	Q05513	-0.24404
93299	Q2Q067	Q7Z5A8	-0.98666
93300	Q2Q067	Q9HBD1	-0.47839
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93302	Q2Q067	Q30154	-0.79235
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93304	Q2Q067	Q6UW32	-0.40114
93305	Q2Q067	Q9Y6E0	-0.37815
93306	Q2Q067	Q96M66	-0.25369
93307	Q2Q067	Q9UBN4	-0.30537
93308	Q2Q067	P48307	-0.81818
93309	Q2Q067	Q9UKR5	-0.92207
93310	Q2Q067	Q9Y5S2	-0.9262
93311	Q2Q067	Q3SXM0	-0.22742
93312	Q2Q067	Q96K12	-1.2787
93313	Q2Q067	O94919	-0.94168
93314	Q2Q067	Q8IXU6	-0.79724
93315	Q2Q067	Q8N9V2	-0.79686
93316	Q2Q067	O60344	-1.091
93317	Q2Q067	O15240	-0.69537
93318	Q2Q067	Q96RI1	-0.23424
93319	Q2Q067	P54219	-0.61739
93320	Q2Q067	Q8IYB5	-1.0295
93321	Q2Q067	P04229	-0.62454
93322	Q2Q067	A6NI15	-0.22742
93323	Q2Q067	P85037	-0.26994
93324	Q2Q067	Q99706	-0.84593
93325	Q2Q067	Q8N3R3	-0.21265
93326	Q2Q067	Q5TD97	-0.22127
93327	Q2Q067	Q8N819	-0.52629
93328	Q2Q067	Q8IUX4	-0.50862

93329	Q2Q067	Q86VW1	-1.1477
93330	Q2Q067	Q96J66	-1.5095
93331	Q2Q067	Q8TDS5	-1.3478
93332	Q2Q067	Q92535	-1.006
93333	Q2Q067	O75695	-0.69506
93334	Q2Q067	Q92886	-0.2284
93335	Q2Q067	Q6SZW1	-0.59689
93336	Q2Q067	Q969U6	-0.22758
93337	Q2Q067	Q96DR8	-1.0929
93338	Q2Q067	P35544	-0.24416
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93340	Q2Q067	O60602	-1.217
93341	Q2Q067	P33991	-0.22232
93342	Q2Q067	P50458	-0.22741
93343	Q2Q067	D6R901	-0.76972
93344	Q2Q067	P51511	-0.96177
93345	Q2Q067	Q9NPZ5	-0.70846
93346	Q2Q067	P32297	-0.80758
93347	Q2Q067	Q9H1N7	-0.67866
93348	Q2Q067	Q5T4F7	-0.87254
93349	Q2Q067	Q96EK2	-0.48451
93350	Q2Q067	P48664	-1.2154
93351	Q2Q067	Q8IZ41	-0.93917
93352	Q2Q067	Q9UHY7	-0.20509
93353	Q2Q067	P15090	-0.20472
93354	Q2Q067	P35410	-0.75257
93355	Q2Q067	Q9UNL2	-0.82118
93356	Q2Q067	Q6P4A7	-1.0264
93357	Q2Q067	Q96SN7	-0.35359
93358	Q2Q067	Q06495	-0.62731
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93360	Q2Q067	O14522	-0.88218
93361	Q2Q067	Q13685	-0.73912
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93364	Q2Q067	A6NKL6	-1.0345
93365	Q2Q067	P52951	-0.22466
93366	Q2Q067	Q9Y5R4	-0.27615
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93368	Q2Q067	A6NIE9	-1.5202
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93374	Q2Q067	P04062	-0.44264
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93376	Q2Q067	Q9BSK0	-0.45017
93377	Q2Q067	Q8TDQ1	-1.1634
93378	Q2Q067	P0CI26	-0.73178
93379	Q2Q067	O43614	-1.4652
93380	Q2Q067	A6NFU8	-0.85877
93381	Q2Q067	Q9HCE3	-0.14213
93382	Q2Q067	P15529	-0.78684
93383	Q2Q067	O43889	-0.3333
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93390	Q2Q067	Q9UQ16	-0.23195
93391	Q2Q067	A6NJW4	-1.0345
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93393	Q2Q067	Q969S0	-0.70802
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93397	Q2Q067	Q9H340	-1.4096
93398	Q2Q067	Q6ZP29	-1.0137
93399	Q2Q067	Q5SRD0	-0.4134
93400	Q2Q067	P32119	-0.39396
93401	Q2Q067	Q96LM5	-0.1428
93402	Q2Q067	Q8WU08	-1.4247
93403	Q2Q067	Q96SB4	-0.32742
93404	Q2Q067	P78329	-0.22812

93405	Q2Q067	Q96DR5	-1.1714
93406	Q2Q067	Q8NGG4	-1.4096
93407	Q2Q067	Q96ER9	-0.27244
93408	Q2Q067	Q8IYT2	-0.94793
93409	Q2Q067	Q8NFV4	-0.22178
93410	Q2Q067	P61568	-0.2833
93411	Q2Q067	Q8TAL6	-0.84542
93412	Q2Q067	Q6ZN19	-0.085533
93413	Q2Q067	Q8NA82	-0.58666
93414	Q2Q067	Q9Y639	-0.98275
93415	Q2Q067	O75569	-0.18824
93416	Q2Q067	Q96E40	-0.043855
93417	Q2Q067	Q9NP99	-1.6156
93418	Q2Q067	Q9P283	-1.204
93419	Q2Q067	Q9Y5E5	-1.1567
93420	Q2Q067	Q6ZNI0	-0.88339
93421	Q2Q067	Q5JV73	-0.3932
93422	Q2Q067	Q8IZU9	-0.97068
93423	Q2Q067	P25025	-1.241
93424	Q2Q067	Q6ICI0	-1.0345
93425	Q2Q067	Q96M42	-0.25453
93426	Q2Q067	Q5VY43	-1.1009
93427	Q2Q067	Q8WUF8	-0.95448
93428	Q2Q067	P07451	-0.18846
93429	Q2Q067	Q6UWV6	-0.86213
93430	Q2Q067	P04350	-0.2679
93431	Q2Q067	Q9BXP2	-1.1367
93432	Q2Q067	A8K554	-0.028364
93433	Q2Q067	Q13489	-0.22741
93434	Q2Q067	O43869	-1.4096
93435	Q2Q067	O14657	-0.2638
93436	Q2Q067	Q8NAB2	-0.2118
93437	Q2Q067	Q6P4F2	-0.28806
93438	Q2Q067	O95970	-0.22798
93439	Q2Q067	Q92911	-0.83054
93440	Q2Q067	P57737	-0.46267
93441	Q2Q067	P63129	-0.74403
93442	Q2Q067	P54826	-0.16273
93443	Q2Q067	Q8NDW8	-0.052774
93444	Q2Q067	P42696	-0.44426
93445	Q2Q067	O15480	-0.11041
93446	Q2Q067	Q6ZMZ0	-0.52335
93447	Q2Q067	Q00604	-0.78801
93448	Q2Q067	Q6ZVD8	-0.2283
93449	Q2Q067	P08908	-1.3488
93450	Q2Q067	P68363	-0.20752
93451	Q2Q067	P20815	-0.78702
93452	Q2Q067	Q9Y561	-0.70648
93453	Q2Q067	Q6UW56	-0.22652
93454	Q2Q067	Q12899	-0.59831
93455	Q2Q067	Q9P2M4	-1.3279
93456	Q2Q067	A6NNE9	-1.1133
93457	Q2Q067	Q969R8	-0.11046
93458	Q2Q067	O94812	-0.41321
93459	Q2Q067	Q8WUR7	-0.16817
93460	Q2Q067	A6NLU0	-0.48451
93461	Q2Q067	Q9NXF1	-0.39983
93462	Q2Q067	Q8WX94	-0.91075
93463	Q2Q067	Q8TAA9	-0.57212
93464	Q2Q067	P15173	-0.22732
93465	Q2Q067	P32926	-0.99573
93466	Q2Q067	Q13049	-0.2274
93467	Q2Q067	Q9BYC5	-0.61658
93468	Q2Q067	Q7RTY5	-1.5202
93469	Q2Q067	Q96P20	-0.22726
93470	Q2Q067	Q53F19	-0.89117
93471	Q2Q067	Q8N8Z6	-1.227
93472	Q2Q067	Q9H361	-0.67719
93473	Q2Q067	P98082	-0.22679
93474	Q2Q067	P14543	-1.1318
93475	Q2Q067	Q12955	-0.22741
93476	Q2Q067	P00156	-0.78518
93477	Q2Q067	O60941	-0.32941
93478	Q2Q067	P46952	-0.2452
93479	Q2Q067	P31327	-0.19068
93480	Q2Q067	O43320	-0.99386

93481	Q2Q067	P54922	-0.33701
93482	Q2Q067	Q14CM0	-0.22741
93483	Q2Q067	Q4KMG0	-0.35086
93484	Q2Q067	P41440	-0.91893
93485	Q2Q067	Q96LW4	-0.41142
93486	Q2Q067	Q8IWZ6	-0.18971
93487	Q2Q067	O95573	-0.80454
93488	Q2Q067	Q8N436	-1.3462
93489	Q2Q067	Q96LL3	-1.0345
93490	Q2Q067	Q2LD37	-0.055166
93491	Q2Q067	P21802	-0.26189
93492	Q2Q067	Q9GZU1	-0.97849
93493	Q2Q067	O15056	-0.22704
93494	Q2Q067	Q8N9C0	-0.22745
93495	Q2Q067	O94804	-0.75737
93496	Q2Q067	P50238	-0.37289
93497	Q2Q067	Q8TDD1	-0.28217
93498	Q2Q067	Q02386	-0.20906
93499	Q2Q067	Q8N8Q9	-1.2271
93500	Q2Q067	Q96P65	-1.4577
93501	Q2Q067	O15357	-0.22741
93502	Q2Q067	Q8NA58	-0.67254
93503	Q2Q067	Q8NFP9	-0.36059
93504	Q2Q067	Q765I0	-0.96181
93505	Q2Q067	Q9H967	-0.22728
93506	Q2Q067	Q969M2	-1.0245
93507	Q2Q067	Q9Y3A4	-0.96284
93508	Q2Q067	Q9BQ50	-0.23362
93509	Q2Q067	Q4V339	-0.91075
93510	Q2Q067	Q6ZWJ8	-0.98666
93511	Q2Q067	A1Z1Q3	-0.42564
93512	Q2Q067	Q709C8	-0.44605
93513	Q2Q067	B0I1T2	-0.82429
93514	Q2Q067	Q5JXX7	-1.0345
93515	Q2Q067	Q8IWT1	-0.92756
93516	Q2Q067	Q16853	-1.1735
93517	Q2Q067	P55290	-0.58558
93518	Q2Q067	A6NC98	-0.19792
93519	Q2Q067	Q6P5W5	-0.97368
93520	Q2Q067	Q96DD7	-1.0345
93521	Q2Q067	Q13557	-0.78771
93522	Q2Q067	Q9NQT6	-0.38574
93523	Q2Q067	P26439	-0.85264
93524	Q2Q067	Q9UK32	-0.8178
93525	Q2Q067	Q86UE6	-0.8917
93526	Q2Q067	Q8NA70	-0.14882
93527	Q2Q067	Q8WV07	-0.24416
93528	Q2Q067	Q13609	-0.13113
93529	Q2Q067	O43414	-0.71451
93530	Q2Q067	Q9H2K8	-0.44016
93531	Q2Q067	Q13563	-0.2982
93532	Q2Q067	Q9NZW5	-0.22612
93533	Q2Q067	P10451	-0.82302
93534	Q2Q067	Q8TEQ0	-0.52507
93535	Q2Q067	Q9UFP1	-0.98666
93536	Q2Q067	Q9UBS9	-1.067
93537	Q2Q067	Q92876	-0.26684
93538	Q2Q067	P55160	-0.32712
93539	Q2Q067	A6NK06	-0.36377
93540	Q2Q067	Q5THK1	-0.045029
93541	Q2Q067	O14562	-0.17566
93542	Q2Q067	Q93099	-0.37703
93543	Q2Q067	O00220	-0.2274
93544	Q2Q067	Q9BXL6	-0.50164
93545	Q2Q067	O15409	-0.33602
93546	Q2Q067	Q96KC9	-0.27506
93547	Q2Q067	P29317	-0.67435
93548	Q2Q067	Q587I9	-0.73764
93549	Q2Q067	Q9Y4A0	-0.20439
93550	Q2Q067	Q9HCS2	-0.7114
93551	Q2Q067	Q9H8U3	-0.56368
93552	Q2Q067	Q5FWE3	-1.0345
93553	Q2Q067	P19429	-0.11401
93554	Q2Q067	P05186	-1.1358
93555	Q2Q067	Q8TDQ7	-0.16004
93556	Q2Q067	O95445	-0.96652

93557	Q2Q067	P48448	-0.6377
93558	Q2Q067	Q9P215	-0.30633
93559	Q2Q067	Q8NHG7	-0.41212
93560	Q2Q067	Q6ZLNJ1	-0.35842
93561	Q2Q067	A4D2B8	-0.43693
93562	Q2Q067	Q9NYW2	-1.2647
93563	Q2Q067	A8MRT5	-1.0345
93564	Q2Q067	O00506	-0.71465
93565	Q2Q067	Q9H6B9	-0.84654
93566	Q2Q067	Q9UG22	-1.4445
93567	Q2Q067	P69891	-0.23916
93568	Q2Q067	Q29974	-0.61932
93569	Q2Q067	A4D0T2	-1.0345
93570	Q2Q067	Q7L1S5	-0.99193
93571	Q2Q067	O43379	-0.22763
93572	Q2Q067	Q9Y6C2	-0.75998
93573	Q2Q067	Q04900	-1.3674
93574	Q2Q067	Q13724	-0.95508
93575	Q2Q067	Q99798	-0.16295
93576	Q2Q067	O43815	-0.22752
93577	Q2Q067	Q9Y3L5	-0.91555
93578	Q2Q067	Q8NH94	-1.4096
93579	Q2Q067	Q13443	-0.74243
93580	Q2Q067	Q9HBH0	-1.0871
93581	Q2Q067	Q9HAA7	-0.094358
93582	Q2Q067	Q8TC27	-1.1703
93583	Q2Q067	Q9BX67	-0.65629
93584	Q2Q067	Q969P0	-0.41807
93585	Q2Q067	Q14671	-0.16694
93586	Q2Q067	Q02413	-0.76046
93587	Q2Q067	Q9H761	-0.026321
93588	Q2Q067	Q9NZC2	-1.49
93589	Q2Q067	P0C263	-1.3228
93590	Q2Q067	Q9BS34	-0.085533
93591	Q2Q067	Q9H6X4	-1.0345
93592	Q2Q067	Q8WXX1	-0.61006
93593	Q2Q067	P01605	-1.1115
93594	Q2Q067	Q9UQE7	-0.22621
93595	Q2Q067	Q6ZQN7	-1.3809
93596	Q2Q067	Q8IZY5	-0.18201
93597	Q2Q067	Q8NG92	-1.4096
93598	Q2Q067	Q8N118	-0.88962
93599	Q2Q067	Q14623	-0.46613
93600	Q2Q067	Q8NGC9	-1.4096
93601	Q2Q067	P57105	-0.78611
93602	Q2Q067	O75648	-0.55205
93603	Q2Q067	P18510	-0.41322
93604	Q2Q067	O60688	-0.07418
93605	Q2Q067	P47985	-1.0988
93606	Q2Q067	O95150	-1.615
93607	Q2Q067	A6NM36	-0.22779
93608	Q2Q067	Q8N883	-0.085533
93609	Q2Q067	Q9Y5Z9	-0.40193
93610	Q2Q067	Q9H324	-0.72671
93611	Q2Q067	Q9UPM6	-0.22741
93612	Q2Q067	O15209	-0.22648
93613	Q2Q067	A8K0Z3	-0.19487
93614	Q2Q067	P00736	-1.5019
93615	Q2Q067	Q96DX4	-1.083
93616	Q2Q067	Q9Y584	-0.59399
93617	Q2Q067	O60313	-0.67854
93618	Q2Q067	Q9Y2G5	-0.26712
93619	Q2Q067	Q96PE1	-1.3217
93620	Q2Q067	Q8WXH6	-1.3356
93621	Q2Q067	P47887	-1.4862
93622	Q2Q067	Q86TH1	-0.67739
93623	Q2Q067	Q9P0M6	-0.94752
93624	Q2Q067	O00453	-0.67875
93625	Q2Q067	O75874	-0.13943
93626	Q2Q067	P09565	-0.32596
93627	Q2Q067	Q16342	-0.18032
93628	Q2Q067	Q9H9S4	-0.39393
93629	Q2Q067	P47898	-1.3111
93630	Q2Q067	Q9UBI4	-0.76259
93631	Q2Q067	Q7Z3V4	-0.41408
93632	Q2Q067	A2RU48	-1.0345

93633	Q2Q067	Q8NFU4	-0.98666
93634	Q2Q067	P28290	-0.38929
93635	Q2Q067	Q6UWK7	-0.98666
93636	Q2Q067	Q9Y2I7	-0.22621
93637	Q2Q067	O94907	-0.41981
93638	Q2Q067	Q6P5R6	-0.075864
93639	Q2Q067	P60608	-0.2833
93640	Q2Q067	Q5T4D3	-1.0345
93641	Q2Q067	Q6ZSM3	-1.1513
93642	Q2Q067	Q14699	-0.67345
93643	Q2Q067	Q8NH64	-1.4096
93644	Q2Q067	Q9UBV2	-0.39171
93645	Q2Q067	Q8N4A0	-0.62195
93646	Q2Q067	P0C6E5	-0.45296
93647	Q2Q067	Q9BPW9	-0.91458
93648	Q2Q067	Q8NEC5	-0.77475
93649	Q2Q067	Q5T447	-0.22787
93650	Q2Q067	Q9NPJ1	-0.19614
93651	Q2Q067	Q5VXU9	-0.38592
93652	Q2Q067	Q13627	-0.35132
93653	Q2Q067	Q14184	-0.54187
93654	Q2Q067	Q5T3I0	-0.41613
93655	Q2Q067	Q75319	-0.6567
93656	Q2Q067	Q9BYW2	-0.22649
93657	Q2Q067	Q86XS5	-1.277
93658	Q2Q067	Q86V24	-1.1068
93659	Q2Q067	Q5JU67	-0.07604
93660	Q2Q067	A6NL05	-1.0345
93661	Q2Q067	P09110	-0.20568
93662	Q2Q067	P67812	-0.89161
93663	Q2Q067	Q9NU23	-0.21265
93664	Q2Q067	Q6ZSS7	-1.0195
93665	Q2Q067	Q96LM6	-0.054655
93666	Q2Q067	Q8N9S7	-1.0345
93667	Q2Q067	Q9NS00	-1.1315
93668	Q2Q067	Q96CD2	-0.26773
93669	Q2Q067	Q8WUJ0	-0.58577
93670	Q2Q067	P09237	-1.232
93671	Q2Q067	Q99595	-0.49963
93672	Q2Q067	Q9BQ39	-0.61698
93673	Q2Q067	P20337	-0.96099
93674	Q2Q067	Q9C0J8	-0.22735
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93676	Q2Q067	P21281	-0.53735
93677	Q2Q067	Q7Z407	-1.1634
93678	Q2Q067	Q13449	-0.22798
93679	Q2Q067	Q7Z3Z4	-0.31313
93680	Q2Q067	Q9H2F9	-0.18541
93681	Q2Q067	Q6R6M4	-0.4237
93682	Q2Q067	Q95843	-0.71617
93683	Q2Q067	Q86YW5	-0.21935
93684	Q2Q067	Q15165	-0.8156
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93686	Q2Q067	Q8WZ04	-0.58187
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93695	Q2Q067	P15814	-1.123
93696	Q2Q067	Q8WUA8	-0.98666
93697	Q2Q067	O94806	-0.41949
93698	Q2Q067	Q9H2S9	-0.27011
93699	Q2Q067	O75897	-0.22751
93700	Q2Q067	Q7Z5M5	-1.0345
93701	Q2Q067	Q14926	-0.56462
93702	Q2Q067	Q9Y600	-0.48258
93703	Q2Q067	O14610	-1.3291
93704	Q2Q067	Q499Z3	-0.91075
93705	Q2Q067	Q5T754	-0.37794
93706	Q2Q067	Q29865	-1.1453
93707	Q2Q067	Q8N729	-0.35437
93708	Q2Q067	Q3MIN7	-0.96854

93709	Q2Q067	Q8TEA7	-1.1901
93710	Q2Q067	Q8TDL5	-1.2143
93711	Q2Q067	Q9H8P0	-0.74803
93712	Q2Q067	Q9H9P2	-0.64252
93713	Q2Q067	O60779	-0.77066
93714	Q2Q067	P62873	-0.42685
93715	Q2Q067	Q9BRB3	-0.85701
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93717	Q2Q067	Q9UPV7	-0.50694
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93719	Q2Q067	Q5H8C1	-1.7876
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93721	Q2Q067	P35613	-0.22741
93722	Q2Q067	O15305	-0.31041
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93724	Q2Q067	P35716	-0.23844
93725	Q2Q067	Q8NGS7	-1.4096
93726	Q2Q067	Q8NEJ9	-0.23328
93727	Q2Q067	Q6P1R4	-0.60681
93728	Q2Q067	P78504	-0.61168
93729	Q2Q067	Q5JUK2	-0.20493
93730	Q2Q067	P26992	-0.57074
93731	Q2Q067	Q5JSL3	-0.4805
93732	Q2Q067	Q8IVH2	-0.23648
93733	Q2Q067	Q96LA6	-1.1634
93734	Q2Q067	O43759	-0.75223
93735	Q2Q067	P58876	-0.82527
93736	Q2Q067	Q6UXG2	-0.98135
93737	Q2Q067	Q96EX2	-1.1176
93738	Q2Q067	P84996	-0.93875
93739	Q2Q067	P0C7P3	-0.91075
93740	Q2Q067	Q13326	-0.71762
93741	Q2Q067	Q5T4J0	-0.88339
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93743	Q2Q067	Q96JQ0	-1.3351
93744	Q2Q067	Q7RTS5	-1.0551
93745	Q2Q067	Q96S66	-0.31624
93746	Q2Q067	Q8TAD2	-1.0441
93747	Q2Q067	Q6UXD1	-1.0345
93748	Q2Q067	Q7L0Q8	-0.57771
93749	Q2Q067	Q4G0T1	-0.97734
93750	Q2Q067	Q14249	-0.12756
93751	Q2Q067	Q01726	-0.72972
93752	Q2Q067	P0CE71	-0.45603
93753	Q2Q067	Q6UX01	-1.2337
93754	Q2Q067	Q15973	-0.085533
93755	Q2Q067	Q7Z5J1	-1.5999
93756	Q2Q067	Q14542	-0.47464
93757	Q2Q067	Q9NWD8	-1.0345
93758	Q2Q067	Q96LX7	-0.01615
93759	Q2Q067	Q9UKZ4	-1.2092
93760	Q2Q067	Q14153	-0.24416
93761	Q2Q067	Q8IZM9	-1.1869
93762	Q2Q067	Q6ZSK4	-0.27903
93763	Q2Q067	Q9H9B4	-0.90884
93764	Q2Q067	Q02246	-0.54103
93765	Q2Q067	Q15397	-0.10385
93766	Q2Q067	P24001	-1.1434
93767	Q2Q067	Q8NGZ6	-1.4096
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93771	Q2Q067	Q8N145	-0.79316
93772	Q2Q067	Q9Y2F9	-0.22578
93773	Q2Q067	O60293	-0.042609
93774	Q2Q067	Q8WYQ4	-0.19308
93775	Q2Q067	Q6UWL6	-1.1322
93776	Q2Q067	P08493	-0.96081
93777	Q2Q067	Q8IUA7	-1.332
93778	Q2Q067	Q9UMX5	-0.9666
93779	Q2Q067	Q8NBD8	-1.0345
93780	Q2Q067	Q6IQ22	-0.95921
93781	Q2Q067	Q9NQX0	-0.1649
93782	Q2Q067	Q9BZJ6	-1.327
93783	Q2Q067	Q9H8M5	-1.1457
93784	Q2Q067	Q9UBT2	-0.218

93785	Q2Q067	P01721	-1.1115
93786	Q2Q067	P40617	-0.27081
93787	Q2Q067	Q8NGL6	-1.4096
93788	Q2Q067	Q9Y620	-0.39834
93789	Q2Q067	Q7Z5S9	-1.0345
93790	Q2Q067	Q8IVL0	-0.68396
93791	Q2Q067	Q7L0X0	-0.90071
93792	Q2Q067	Q5SR56	-1.1451
93793	Q2Q067	A6NHZ5	-0.22626
93794	Q2Q067	Q07108	-1.1629
93795	Q2Q067	P04220	-0.55357
93796	Q2Q067	Q9Y3D8	-0.20148
93797	Q2Q067	O76050	-0.32516
93798	Q2Q067	Q99884	-1.1296
93799	Q2Q067	O15151	-0.22514
93800	Q2Q067	Q86SQ0	-0.57284
93801	Q2Q067	Q96RF0	-0.40096
93802	Q2Q067	Q8N628	-1.4096
93803	Q2Q067	Q2NL67	-0.4609
93804	Q2Q067	Q30KQ9	-0.94775
93805	Q2Q067	Q9Y2Z4	-0.20039
93806	Q2Q067	Q4W5N1	-0.24343
93807	Q2Q067	P12318	-1.1348
93808	Q2Q067	Q8NFN8	-1.4576
93809	Q2Q067	Q8NG83	-1.4096
93810	Q2Q067	Q96KV6	-1.0345
93811	Q2Q067	P62068	-0.347
93812	Q2Q067	P50053	-0.37819
93813	Q2Q067	Q9UJQ4	-0.18725
93814	Q2Q067	P17980	-0.27403
93815	Q2Q067	Q7Z3D6	-0.10886
93816	Q2Q067	Q14410	-0.67829
93817	Q2Q067	P56539	-0.22534
93818	Q2Q067	Q96SI1	-0.19088
93819	Q2Q067	Q8NHA6	-1.4096
93820	Q2Q067	Q7L4E1	-1.0345
93821	Q2Q067	Q7Z6J4	-1.1036
93822	Q2Q067	O15120	-0.78513
93823	Q2Q067	P98177	-0.32944
93824	Q2Q067	Q96PB7	-0.93392
93825	Q2Q067	P24844	-0.24442
93826	Q2Q067	Q6UXN8	-1.0503
93827	Q2Q067	Q8WWW8	-0.51797
93828	Q2Q067	Q9Y581	-0.76713
93829	Q2Q067	Q96AX9	-0.22738
93830	Q2Q067	Q9BY89	-0.0078291
93831	Q2Q067	Q9ULH1	-0.65904
93832	Q2Q067	Q9HBJ8	-1.1815
93833	Q2Q067	Q9ULT8	-0.38945
93834	Q2Q067	A6NC97	-1.0345
93835	Q2Q067	Q9UI08	-0.21667
93836	Q2Q067	P58513	-0.32012
93837	Q2Q067	Q9P0V9	-0.56562
93838	Q2Q067	Q8IXL7	-0.60213
93839	Q2Q067	Q92752	-0.46109
93840	Q2Q067	P52429	-1.5807
93841	Q2Q067	Q6PID6	-0.22736
93842	Q2Q067	O76002	-1.4096
93843	Q2Q067	P29322	-1.3338
93844	Q2Q067	P24855	-0.10259
93845	Q2Q067	Q96Q91	-1.0157
93846	Q2Q067	Q99766	-0.46909
93847	Q2Q067	Q96SB8	-0.22323
93848	Q2Q067	Q9H1X3	-1.0544
93849	Q2Q067	Q14714	-1.1354
93850	Q2Q067	P49841	-0.22756
93851	Q2Q067	P0C5W0	-0.20901
93852	Q2Q067	Q6AZY7	-0.94276
93853	Q2Q067	Q5T1V6	-1.2085
93854	Q2Q067	P28039	-1.0143
93855	Q2Q067	O15079	-0.58966
93856	Q2Q067	A8MUH7	-0.2288
93857	Q2Q067	Q9UHJ9	-0.33717
93858	Q2Q067	Q9BV97	-0.27686
93859	Q2Q067	Q96RD2	-1.4096
93860	Q2Q067	Q9H521	-0.18766



93861	Q2Q067	O75907	-0.61218
93862	Q2Q067	Q9NYR9	-1.1263
93863	Q2Q067	Q6UW10	-0.98666
93864	Q2Q067	Q9UBF9	-0.22748
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93866	Q2Q067	Q5CZ79	-0.2274
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93872	Q2Q067	Q96PV0	-0.7136
93873	Q2Q067	P49903	-1.1721
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93881	Q2Q067	Q9BWM7	-1.012
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93887	Q2Q067	Q02535	-0.2252
93888	Q2Q067	Q674R7	-0.97763
93889	Q2Q067	Q9NTX5	-0.28343
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93894	Q2Q067	Q4G0N4	-0.46572
93895	Q2Q067	Q8IVL6	-0.62648
93896	Q2Q067	O76093	-0.6941
93897	Q2Q067	Q9Y276	-0.65089
93898	Q2Q067	Q8N7Z5	-0.22741
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93905	Q2Q067	Q3ZCQ8	-0.054601
93906	Q2Q067	Q8IVI9	-0.22727
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93908	Q2Q067	O75973	-0.68929
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93910	Q2Q067	Q9UJ70	-0.40061
93911	Q2Q067	P0C7T3	-1.4096
93912	Q2Q067	Q5T7P8	-0.72775
93913	Q2Q067	A6NKX4	-1.1225
93914	Q2Q067	Q8TF72	-0.3404
93915	Q2Q067	P07339	-1.2005
93916	Q2Q067	Q99829	-0.22752
93917	Q2Q067	Q43147	-1.0238
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93922	Q2Q067	Q10713	-0.58934
93923	Q2Q067	Q9Y2H2	-0.36028
93924	Q2Q067	Q6MZN7	-0.38857
93925	Q2Q067	A0AVI4	-0.77947
93926	Q2Q067	Q96DC8	-0.41709
93927	Q2Q067	Q8NH80	-1.4096
93928	Q2Q067	P0C7T8	-1.0345
93929	Q2Q067	Q9UPU3	-1.0243
93930	Q2Q067	Q96JB6	-0.66065
93931	Q2Q067	Q9NV96	-0.32824
93932	Q2Q067	Q6P3W2	-0.49927
93933	Q2Q067	Q9UDT6	-0.22723
93934	Q2Q067	A6NMY6	-0.86769
93935	Q2Q067	Q86W33	-1.1532
93936	Q2Q067	Q96GS6	-0.95044

93937	Q2Q067	O75628	-1.3138
93938	Q2Q067	Q96DA2	-1.1543
93939	Q2Q067	Q4VC31	-0.21265
93940	Q2Q067	Q8NEG5	-0.42704
93941	Q2Q067	Q9NUH8	-1.0345
93942	Q2Q067	Q16619	-0.648
93943	Q2Q067	Q6IQ26	-0.3601
93944	Q2Q067	O15354	-1.6599
93945	Q2Q067	P03952	-0.86233
93946	Q2Q067	O15165	-1.004
93947	Q2Q067	Q9H0F5	-0.48451
93948	Q2Q067	O95136	-1.4457
93949	Q2Q067	Q8NDV2	-1.4779
93950	Q2Q067	Q9NXW2	-1.0544
93951	Q2Q067	Q9UH03	-0.22381
93952	Q2Q067	Q5VX71	-1.0345
93953	Q2Q067	Q9NX47	-0.41486
93954	Q2Q067	Q96N66	-0.36984
93955	Q2Q067	Q5T2Q4	-0.4023
93956	Q2Q067	P18505	-1.1254
93957	Q2Q067	Q8N8R5	-0.98666
93958	Q2Q067	Q6UWE3	-0.98967
93959	Q2Q067	Q8NG77	-1.4096
93960	Q2Q067	D3W0D1	-0.57462
93961	Q2Q067	Q0VD67	-0.39904
93962	Q2Q067	P56373	-0.66163
93963	Q2Q067	Q99707	-0.27452
93964	Q2Q067	Q15243	-0.71164
93965	Q2Q067	Q7Z6K4	-0.5093
93966	Q2Q067	Q8NHU6	-0.21552
93967	Q2Q067	Q5T8P6	-0.37308
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93970	Q2Q067	P50406	-1.0611
93971	Q2Q067	Q92609	-0.85881
93972	Q2Q067	Q9H0V9	-0.61276
93973	Q2Q067	Q9NPU4	-1.0345
93974	Q2Q067	P0C7U3	-1.13
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93980	Q2Q067	P30475	-1.2066
93981	Q2Q067	Q9H7L2	-0.98666
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93983	Q2Q067	Q5SRD1	-0.34942
93984	Q2Q067	Q9H694	-0.69675
93985	Q2Q067	P08183	-0.57241
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93987	Q2Q067	Q8WZ92	-1.4096
93988	Q2Q067	P49682	-1.2658
93989	Q2Q067	Q5VV52	-0.50923
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93992	Q2Q067	P98164	-0.3858
93993	Q2Q067	Q9NZP0	-1.4096
93994	Q2Q067	A2RU14	-1.0345
93995	Q2Q067	B9A064	-0.98666
93996	Q2Q067	Q9Y4C1	-0.24073
93997	Q2Q067	Q9UKF5	-1.3734
93998	Q2Q067	Q9H1E5	-1.0091
93999	Q2Q067	Q86XH1	-0.91075
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94001	Q2Q067	P58658	-1.0212
94002	Q2Q067	P41223	-0.031996
94003	Q2Q067	P61916	-0.56953
94004	Q2Q067	O95139	-0.21037
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94006	Q2Q067	Q6T311	-1.4417
94007	Q2Q067	Q8TBZ6	-0.38719
94008	Q2Q067	Q08499	-0.27953
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94010	Q2Q067	Q5JSS6	-0.29697
94011	Q2Q067	Q86W47	-0.76251
94012	Q2Q067	P35442	-0.98727

94013	Q2Q067	Q86W24	-1.2801
94014	Q2Q067	Q8N9L9	-0.42596
94015	Q2Q067	Q8NGZ4	-1.4096
94016	Q2Q067	Q6ZST2	-0.50058
94017	Q2Q067	Q8IVV2	-0.60341
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94022	Q2Q067	P28676	-0.54326
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94024	Q2Q067	P62683	-0.47805
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94034	Q2Q067	Q8ND94	-1.0345
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94045	Q2Q067	Q9Y4E5	-0.22685
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94183	Q2Q067	O95342	-1.0773
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94205	Q2Q067	Q8IWY9	-1.0345
94206	Q2Q067	Q5MNZ9	-0.2274
94207	Q2Q067	C9JXX5	-0.98666
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94209	Q2Q067	Q8ND25	-0.23079
94210	Q2Q067	Q5JT78	-0.095193
94211	Q2Q067	A6NE52	-0.22743
94212	Q2Q067	A6NGN4	-0.19475
94213	Q2Q067	Q8NBJ4	-0.41811
94214	Q2Q067	A8MWY0	-1.0345
94215	Q2Q067	Q96T68	-0.31953
94216	Q2Q067	E5RG02	-1.0134
94217	Q2Q067	O75762	-1.0157
94218	Q2Q067	P36952	-0.13507
94219	Q2Q067	Q8IUX8	-1.5264
94220	Q2Q067	Q9Y215	-0.2432
94221	Q2Q067	Q14543	-0.22741
94222	Q2Q067	P01594	-1.1115
94223	Q2Q067	Q96BQ1	-0.86631
94224	Q2Q067	Q5M9N0	-0.16087
94225	Q2Q067	Q3ZCN5	-0.20749
94226	Q2Q067	Q5TCX8	-1.1417
94227	Q2Q067	Q9NVZ3	-0.66219
94228	Q2Q067	Q8N9U0	-0.18188
94229	Q2Q067	Q8TDW0	-1.1118
94230	Q2Q067	O60522	-0.74967
94231	Q2Q067	P55008	-0.24702
94232	Q2Q067	Q68CR7	-1.0345
94233	Q2Q067	Q6P5Z2	-0.47911
94234	Q2Q067	Q96NL1	-1.1215
94235	Q2Q067	Q9HCX4	-0.22661
94236	Q2Q067	Q96IZ2	-1.1634
94237	Q2Q067	Q3BBW0	-0.20901
94238	Q2Q067	P08582	-0.68824
94239	Q2Q067	P63130	-0.47805
94240	Q2Q067	Q96GY0	-0.43755

94241	Q2Q067	Q5SYB0	-0.23303
94242	Q2Q067	Q96C92	-0.20901
94243	Q2Q067	P14416	-0.27565
94244	Q2Q067	P51684	-1.303
94245	Q2Q067	B6A8C7	-1.0345
94246	Q2Q067	Q86Y28	-0.98666
94247	Q2Q067	Q658P3	-0.72556
94248	Q2Q067	P12277	-0.20466
94249	Q2Q067	O43676	-0.56537
94250	Q2Q067	Q8N4E4	-0.20004
94251	Q2Q067	P48169	-0.96135
94252	Q2Q067	A0AV96	-0.63823
94253	Q2Q067	Q96TA2	-1.4497
94254	Q2Q067	Q5J5C9	-0.86483
94255	Q2Q067	Q9H4A3	-0.62048
94256	Q2Q067	Q15124	-0.089805
94257	Q2Q067	Q9HCI6	-0.41613
94258	Q2Q067	Q6P0Q8	-0.77679
94259	Q2Q067	Q6ZSJ9	-1.0345
94260	Q2Q067	P0C2Y1	-0.20901
94261	Q2Q067	P61328	-0.30061
94262	Q2Q067	Q6ZRH7	-1.348
94263	Q2Q067	Q5VTE0	-0.66858
94264	Q2Q067	Q96KR6	-1.0345
94265	Q2Q067	Q99572	-0.27808
94266	Q2Q067	Q8N556	-0.43513
94267	Q2Q067	Q6PH85	-0.068842
94268	Q2Q067	Q71RG6	-0.98666
94269	Q2Q067	P05113	-0.34511
94270	Q2Q067	O75364	-0.16548
94271	Q2Q067	A8MTQ0	-0.22739
94272	Q2Q067	Q9UJU2	-0.21046
94273	Q2Q067	Q14672	-0.25916
94274	Q2Q067	Q8NGE2	-1.4096
94275	Q2Q067	P35556	-0.92984
94276	Q2Q067	Q8N1H7	-0.54134
94277	Q2Q067	Q12841	-1.1056
94278	Q2Q067	Q6P7N7	-1.0345
94279	Q2Q067	Q8NGN6	-1.4096
94280	Q2Q067	P00491	-0.31924
94281	Q2Q067	Q9H841	-0.98558
94282	Q2Q067	P20936	-0.22741
94283	Q2Q067	Q5JWF2	-0.74118
94284	Q2Q067	Q06710	-0.22711
94285	Q2Q067	Q9UPT8	-0.50058
94286	Q2Q067	Q9NYW5	-1.4624
94287	Q2Q067	A6NKT7	-0.48206
94288	Q2Q067	Q8N4C8	-0.63411
94289	Q2Q067	Q9H4Z3	-0.18586
94290	Q2Q067	Q8WZ79	-0.75742
94291	Q2Q067	Q6ZS30	-0.22741
94292	Q2Q067	Q8N7E2	-0.63223
94293	Q2Q067	P42263	-0.90102
94294	Q2Q067	Q8WZA2	-0.33227
94295	Q2Q067	P14780	-0.43873
94296	Q2Q067	Q9BXA9	-0.20306
94297	Q2Q067	P48357	-1.1628
94298	Q2Q067	Q9H2P9	-0.41015
94299	Q2Q067	Q15614	-1.4096
94300	Q2Q067	Q2NKX8	-0.41736
94301	Q2Q067	O15530	-0.22607
94302	Q2Q067	Q9BZR9	-0.22739
94303	Q2Q067	Q8NGR8	-1.4096
94304	Q2Q067	A6BM72	-1.0227
94305	Q2Q067	P49914	-0.51025
94306	Q2Q067	Q8NDX1	-0.87273
94307	Q2Q067	O95528	-0.62588
94308	Q2Q067	Q96D42	-0.90631
94309	Q2Q067	Q7Z6L0	-1.1566
94310	Q2Q067	Q8IX18	-0.94996
94311	Q2Q067	Q0P5P2	-0.98666
94312	Q2Q067	O60883	-0.87653
94313	Q2Q067	Q12809	-0.7909
94314	Q2Q067	Q9UFV3	-0.016975
94315	Q2Q067	Q9Y3C1	-0.16331
94316	Q2Q067	P40197	-1.0713

94317	Q2Q067	Q9BYE0	-0.22654
94318	Q2Q067	P61619	-0.94859
94319	Q2Q067	Q8NH76	-1.4096
94320	Q2Q067	Q92615	-0.96284
94321	Q2Q067	O75473	-1.5371
94322	Q2Q067	Q9BWF3	-0.2296
94323	Q2Q067	P15374	-0.3328
94324	Q2Q067	P53634	-0.82946
94325	Q2Q067	Q9NP86	-0.28516
94326	Q2Q067	Q9UKK9	-0.6181
94327	Q2Q067	Q9P2X0	-0.26727
94328	Q2Q067	Q8TF64	-0.22548
94329	Q2Q067	Q8WXA8	-1.1556
94330	Q2Q067	Q9BPW5	-1.4198
94331	Q2Q067	Q9ULC0	-1.6971
94332	Q2Q067	O95475	-0.22758
94333	Q2Q067	P13671	-0.28477
94334	Q2Q067	Q8NHG8	-0.69743
94335	Q2Q067	Q96EE4	-0.98666
94336	Q2Q067	Q16696	-0.84452
94337	Q2Q067	P33947	-0.52126
94338	Q2Q067	O15438	-1.3242
94339	Q2Q067	Q9UPR6	-0.67781
94340	Q2Q067	Q96PP4	-0.018722
94341	Q2Q067	Q7M4L6	-0.35564
94342	Q2Q067	Q9ULJ8	-0.37155
94343	Q2Q067	Q96NZ8	-0.86019
94344	Q2Q067	Q9H8J5	-1.0345
94345	Q2Q067	Q8TDX7	-0.9759
94346	Q2Q067	Q5TIE3	-0.98666
94347	Q2Q067	Q9UJ78	-0.15756
94348	Q2Q067	Q96R30	-1.4096
94349	Q2Q067	P13797	-0.34151
94350	Q2Q067	Q8NEB9	-0.34743
94351	Q2Q067	Q6HA08	-0.83938
94352	Q2Q067	Q8WTR4	-0.73769
94353	Q2Q067	Q9BYG3	-0.2229
94354	Q2Q067	P0C7M6	-0.079663
94355	Q2Q067	Q16539	-0.22741
94356	Q2Q067	P48544	-0.75928
94357	Q2Q067	A6NNM8	-0.42102
94358	Q2Q067	Q7Z4R8	-0.94158
94359	Q2Q067	P28358	-0.21675
94360	Q2Q067	O15229	-0.55787
94361	Q2Q067	Q8NHA8	-1.4096
94362	Q2Q067	P0CL84	-0.054655
94363	Q2Q067	P51685	-1.5558
94364	Q2Q067	Q9UNZ2	-0.54844
94365	Q2Q067	P17812	-0.49662
94366	Q2Q067	Q8IUUY3	-1.0345
94367	Q2Q067	O95473	-1.0345
94368	Q2Q067	P00325	-0.61179
94369	Q2Q067	Q6GTX8	-0.48734
94370	Q2Q067	Q06730	-0.067277
94371	Q2Q067	P41240	-0.22743
94372	Q2Q067	Q9NY65	-0.65192
94373	Q2Q067	Q9Y6B7	-0.16921
94374	Q2Q067	Q13950	-0.36954
94375	Q2Q067	P07101	-0.22258
94376	Q2Q067	Q9UL54	-0.79098
94377	Q2Q067	Q8N9B8	-0.77711
94378	Q2Q067	Q9ULZ0	-0.39967
94379	Q2Q067	P10721	-0.33581
94380	Q2Q067	P30510	-1.2066
94381	Q2Q067	Q07011	-1.0989
94382	Q2Q067	Q8N8P7	-0.98666
94383	Q2Q067	O95406	-0.91595
94384	Q2Q067	Q1KMD3	-0.22559
94385	Q2Q067	Q643R3	-0.85682
94386	Q2Q067	Q9NXL9	-0.60881
94387	Q2Q067	Q14112	-0.76156
94388	Q2Q067	Q9NSA1	-0.37384
94389	Q2Q067	Q9HB15	-1.1607
94390	Q2Q067	O43847	-0.25218
94391	Q2Q067	P35221	-0.19262
94392	Q2Q067	P10619	-0.20167

94393	Q2Q067	O60880	-0.22741
94394	Q2Q067	Q13231	-0.83758
94395	Q2Q067	Q5TA76	-0.37794
94396	Q2Q067	Q96SJ8	-1.0345
94397	Q2Q067	P42285	-0.22387
94398	Q2Q067	P33993	-0.20493
94399	Q2Q067	P0C7Q3	-0.14149
94400	Q2Q067	Q14CZ7	-0.35547
94401	Q2Q067	Q16204	-0.30645
94402	Q2Q067	Q9H4G1	-1.024
94403	Q2Q067	Q9Y334	-0.77379
94404	Q2Q067	Q86V21	-0.52353
94405	Q2Q067	Q9BUU2	-0.38719
94406	Q2Q067	Q99985	-0.88896
94407	Q2Q067	O15085	-0.28943
94408	Q2Q067	Q9Y6T7	-1.0285
94409	Q2Q067	Q6TCH7	-0.82825
94410	Q2Q067	Q9BX46	-0.41656
94411	Q2Q067	Q8IX29	-0.21738
94412	Q2Q067	O15522	-0.24593
94413	Q2Q067	P48729	-0.22741
94414	Q2Q067	Q9NVH6	-0.26909
94415	Q2Q067	Q8TCT8	-0.74568
94416	Q2Q067	O14653	-0.40955
94417	Q2Q067	O43548	-0.31776
94418	Q2Q067	Q9H1X1	-0.45945
94419	Q2Q067	Q96J42	-1.0438
94420	Q2Q067	Q9UQB9	-0.62508
94421	Q2Q067	Q96N28	-0.21265
94422	Q2Q067	Q8NG08	-0.76556
94423	Q2Q067	Q9H082	-1.0614
94424	Q2Q067	A6NP81	-0.40653
94425	Q2Q067	Q7Z7M1	-1.5126
94426	Q2Q067	Q8N392	-1.0924
94427	Q2Q067	P0CG06	-1.101
94428	Q2Q067	O14950	-0.2269
94429	Q2Q067	O15062	-0.22444
94430	Q2Q067	Q7Z404	-1.0345
94431	Q2Q067	P20774	-0.40221
94432	Q2Q067	Q9UKU9	-1.459
94433	Q2Q067	P43234	-0.97521
94434	Q2Q067	Q13203	-0.74653
94435	Q2Q067	Q8NBT3	-1.0345
94436	Q2Q067	Q8N9R6	-0.055595
94437	Q2Q067	Q5T2S8	-0.22796
94438	Q2Q067	Q6VB85	-0.33602
94439	Q2Q067	Q5FYB0	-0.83456
94440	Q2Q067	P12532	-0.94818
94441	Q2Q067	M0R1G4	-0.12735
94442	Q2Q067	Q7RTU7	-0.232
94443	Q2Q067	Q8NGJ3	-1.4096
94444	Q2Q067	Q9NP73	-0.41591
94445	Q2Q067	Q9UPN4	-0.19554
94446	Q2Q067	P59074	-0.21619
94447	Q2Q067	P98187	-1.0803
94448	Q2Q067	P30990	-1.0617
94449	Q2Q067	A6NLX4	-1.0345
94450	Q2Q067	Q02641	-0.65626
94451	Q2Q067	O95180	-0.90535
94452	Q2Q067	Q9HBY8	-0.80167
94453	Q2Q067	Q01362	-1.0339
94454	Q2Q067	Q6ZWI9	-0.48451
94455	Q2Q067	P47736	-0.26895
94456	Q2Q067	Q9NQ30	-0.83702
94457	Q2Q067	Q96DT5	-0.75347
94458	Q2Q067	F8WBI6	-0.28132
94459	Q2Q067	Q2TVT3	-0.31999
94460	Q2Q067	P01130	-0.48704
94461	Q2Q067	Q8NG85	-1.2565
94462	Q2Q067	Q9H227	-0.22469
94463	Q2Q067	Q8NBX0	-0.67964
94464	Q2Q067	P62253	-0.61039
94465	Q2Q067	A8MZH6	-0.98666
94466	Q2Q067	P62760	-0.45603
94467	Q2Q067	O94956	-1.2275
94468	Q2Q067	P36896	-0.53854



94469	Q2Q067	Q16877	-0.50265
94470	Q2Q067	Q7Z6I6	-1.0586
94471	Q2Q067	Q2MJR0	-0.73252
94472	Q2Q067	Q9BZF1	-0.9261
94473	Q2Q067	Q9NZP8	-1.5174
94474	Q2Q067	A6NGY5	-1.4096
94475	Q2Q067	Q8NGC8	-1.4096
94476	Q2Q067	A5YM72	-0.83846
94477	Q2Q067	Q4G1C9	-1.0345
94478	Q2Q067	P10912	-0.29502
94479	Q2Q067	Q96F15	-1.0074
94480	Q2Q067	Q9C0B0	-0.50058
94481	Q2Q067	P26441	-0.26201
94482	Q2Q067	Q9U1L4	-0.60234
94483	Q2Q067	Q02083	-0.17325
94484	Q2Q067	Q53HI1	-0.35872
94485	Q2Q067	Q14833	-1.4997
94486	Q2Q067	Q16674	-0.95143
94487	Q2Q067	Q9Y426	-0.42766
94488	Q2Q067	A8MQ11	-0.29776
94489	Q2Q067	Q9H2J7	-1.1654
94490	Q2Q067	P0DJR0	-1.0835
94491	Q2Q067	Q96CN5	-0.22721
94492	Q2Q067	Q9NVX2	-0.22776
94493	Q2Q067	Q8NFL0	-0.80147
94494	Q2Q067	Q9UGQ3	-0.78289
94495	Q2Q067	Q14940	-1.196
94496	Q2Q067	Q9H269	-0.56579
94497	Q2Q067	Q9Y6B6	-0.46766
94498	Q2Q067	Q13410	-1.7076
94499	Q2Q067	Q8IU5	-0.9667
94500	Q2Q067	P56705	-0.31296
94501	Q2Q067	Q9NW13	-0.33032
94502	Q2Q067	Q9H3K2	-0.07742
94503	Q2Q067	Q5T753	-0.37794
94504	Q2Q067	Q8NAT1	-1.0294
94505	Q2Q067	Q8N0V4	-0.98666
94506	Q2Q067	P02729	-0.86843
94507	Q2Q067	Q9NQ79	-1.0767
94508	Q2Q067	Q03591	-1.0479
94509	Q2Q067	Q14782	-0.36193
94510	Q2Q067	Q9BWJ2	-0.021975
94511	Q2Q067	Q9H4A9	-0.9831
94512	Q2Q067	Q86V85	-1.0345
94513	Q2Q067	Q2QL34	-1.0569
94514	Q2Q067	P56715	-0.16459
94515	Q2Q067	Q95755	-0.97933
94516	Q2Q067	A6NGB7	-1.0345
94517	Q2Q067	Q9ULL8	-0.24837
94518	Q2Q067	P01854	-0.41987
94519	Q2Q067	P04808	-1.1311
94520	Q2Q067	Q96LD1	-0.69905
94521	Q2Q067	P15918	-0.22689
94522	Q2Q067	P40238	-1.1529
94523	Q2Q067	Q8TDI8	-1.0603
94524	Q2Q067	P00519	-0.22752
94525	Q2Q067	Q9HCS4	-0.19672
94526	Q2Q067	Q5SW96	-0.22732
94527	Q2Q067	A6NED2	-0.33831
94528	Q2Q067	Q9Y5P0	-1.4096
94529	Q2Q067	Q6PIY5	-0.38445
94530	Q2Q067	P03986	-1.2067
94531	Q2Q067	Q6ZSV7	-0.086597
94532	Q2Q067	P43362	-0.24416
94533	Q2Q067	O43246	-0.99098
94534	Q2Q067	Q63ZE4	-1.0022
94535	Q2Q067	Q6ZN57	-0.085533
94536	Q2Q067	P05937	-0.22728
94537	Q2Q067	Q9BQE9	-0.38281
94538	Q2Q067	Q9H330	-0.88683
94539	Q2Q067	A6NDN8	-0.20285
94540	Q2Q067	Q7Z5H4	-1.4199
94541	Q2Q067	P0CG32	-0.50058
94542	Q2Q067	P41238	-0.11931
94543	Q2Q067	Q32M45	-1.0594
94544	Q2Q067	Q8N2A8	-0.73284

94545	Q2Q067	P16112	-0.87164
94546	Q2Q067	Q9NVX7	-0.22515
94547	Q2Q067	P01588	-0.26081
94548	Q2Q067	Q96EG1	-0.54967
94549	Q2Q067	P0DKB6	-1.0345
94550	Q2Q067	Q15520	-0.30198
94551	Q2Q067	Q9NZD1	-1.4967
94552	Q2Q067	Q58FF7	-0.66086
94553	Q2Q067	Q14761	-1.1406
94554	Q2Q067	Q92633	-0.45753
94555	Q2Q067	Q12950	-0.33602
94556	Q2Q067	Q496M5	-0.22741
94557	Q2Q067	P30453	-0.99938
94558	Q2Q067	P52926	-0.07825
94559	Q2Q067	Q8TE73	-0.63531
94560	Q2Q067	Q8NHX9	-0.62313
94561	Q2Q067	Q8TE56	-1.4569
94562	Q2Q067	Q86Y07	-0.58491
94563	Q2Q067	Q9NQH7	-0.62766
94564	Q2Q067	Q5SNT2	-0.65964
94565	Q2Q067	Q8NI22	-0.60555
94566	Q2Q067	P60985	-1.0669
94567	Q2Q067	Q6IFN5	-1.4096
94568	Q2Q067	Q15761	-1.1126
94569	Q2Q067	Q8IVL5	-0.59527
94570	Q2Q067	P00390	-0.22563
94571	Q2Q067	P02818	-0.57811
94572	Q2Q067	Q16718	-0.15366
94573	Q2Q067	Q9H115	-0.18051
94574	Q2Q067	O15439	-1.1801
94575	Q2Q067	P43626	-0.71274
94576	Q2Q067	P10321	-1.1453
94577	Q2Q067	Q3SXP7	-1.0345
94578	Q2Q067	Q14681	-0.12599
94579	Q2Q067	Q9Y4M8	-0.29137
94580	Q2Q067	Q14004	-0.23107
94581	Q2Q067	Q15435	-0.22741
94582	Q2Q067	Q9P2F9	-0.085533
94583	Q2Q067	Q9Y6Q6	-0.31213
94584	Q2Q067	Q92887	-1.0219
94585	Q2Q067	Q6ZQT0	-0.053214
94586	Q2Q067	Q9NY26	-1.1815
94587	Q2Q067	Q9ULU8	-0.10842
94588	Q2Q067	P0CG23	-0.74229
94589	Q2Q067	Q2V2M9	-0.22411
94590	Q2Q067	P58180	-1.4096
94591	Q2Q067	Q9H4B4	-0.22742
94592	Q2Q067	Q8WZ84	-1.4096
94593	Q2Q067	Q9P2S2	-1.072
94594	Q2Q067	P01593	-1.1115
94595	Q2Q067	O95256	-1.3844
94596	Q2Q067	Q96I34	-0.2274
94597	Q2Q067	Q8N3R9	-0.22608
94598	Q2Q067	Q9Y6I4	-0.37894
94599	Q2Q067	P31358	-0.73612
94600	Q2Q067	Q6ZWB6	-0.19517
94601	Q2Q067	Q07627	-0.54605
94602	Q2Q067	P29965	-1.0718
94603	Q2Q067	Q8NGD4	-1.4096
94604	Q2Q067	Q6AWC2	-0.22741
94605	Q2Q067	Q8WWM9	-0.45563
94606	Q2Q067	Q5VZ18	-0.22741
94607	Q2Q067	O76080	-0.29522
94608	Q2Q067	P04844	-0.50886
94609	Q2Q067	A8K0R7	-0.73178
94610	Q2Q067	Q8TF44	-0.21293
94611	Q2Q067	Q8IZP2	-0.22718
94612	Q2Q067	Q8TB68	-0.91133
94613	Q2Q067	Q9HBW0	-1.0734
94614	Q2Q067	Q14563	-0.77584
94615	Q2Q067	P51114	-0.13337
94616	Q2Q067	P61204	-0.60862
94617	Q2Q067	Q14416	-1.4257
94618	Q2Q067	Q8TAP8	-0.41456
94619	Q2Q067	P00403	-0.6779
94620	Q2Q067	O00330	-0.19845

94621	Q2Q067	Q8WYA0	-0.61461
94622	Q2Q067	Q9NTU7	-0.85913
94623	Q2Q067	P43631	-1.1794
94624	Q2Q067	Q9Y6N8	-1.2844
94625	Q2Q067	A6NDA9	-1.0345
94626	Q2Q067	Q9Y343	-0.67605
94627	Q2Q067	Q04721	-0.26138
94628	Q2Q067	Q8NGR9	-1.4096
94629	Q2Q067	Q8IVF4	-0.77552
94630	Q2Q067	P29320	-1.1188
94631	Q2Q067	Q16363	-1.223
94632	Q2Q067	Q4W4Y0	-0.010541
94633	Q2Q067	Q86X29	-1.0175
94634	Q2Q067	Q5TCM9	-0.37794
94635	Q2Q067	Q99731	-0.49496
94636	Q2Q067	Q9P2U8	-0.95514
94637	Q2Q067	Q9Y233	-0.64786
94638	Q2Q067	A1L167	-0.92845
94639	Q2Q067	P49411	-0.77419
94640	Q2Q067	Q7Z2Q7	-1.0345
94641	Q2Q067	Q96PS6	-1.0345
94642	Q2Q067	P04908	-0.82527
94643	Q2Q067	P38398	-0.22727
94644	Q2Q067	Q9H8M2	-0.050913
94645	Q2Q067	Q16720	-1.2428
94646	Q2Q067	Q9H2X8	-1.0345
94647	Q2Q067	O76000	-1.4096
94648	Q2Q067	Q7RTW8	-1.2559
94649	Q2Q067	P09382	-0.60725
94650	Q2Q067	P09960	-0.2645
94651	Q2Q067	Q9H000	-0.74251
94652	Q2Q067	P17813	-0.21598
94653	Q2Q067	Q9H1Z8	-0.92911
94654	Q2Q067	P01604	-1.1115
94655	Q2Q067	Q02383	-0.83968
94656	Q2Q067	Q8N4P3	-0.56716
94657	Q2Q067	P31644	-0.95289
94658	Q2Q067	P02654	-0.65234
94659	Q2Q067	P31415	-0.21819
94660	Q2Q067	Q86SG5	-0.33117
94661	Q2Q067	Q9H305	-0.09702
94662	Q2Q067	O94886	-1.5806
94663	Q2Q067	Q8NGS2	-1.4096
94664	Q2Q067	O76071	-0.23464
94665	Q2Q067	Q8IUX1	-0.77947
94666	Q2Q067	O95371	-1.3728
94667	Q2Q067	Q12891	-0.22289
94668	Q2Q067	P61296	-0.22921
94669	Q2Q067	Q9H165	-0.2271
94670	Q2Q067	Q96NY7	-0.78014
94671	Q2Q067	P21917	-0.55094
94672	Q2Q067	P22083	-0.70868
94673	Q2Q067	Q99961	-0.30494
94674	Q2Q067	Q96M43	-0.20901
94675	Q2Q067	P41586	-0.62604
94676	Q2Q067	Q96SE0	-0.79582
94677	Q2Q067	Q96RW7	-1.2184
94678	Q2Q067	P20783	-0.62542
94679	Q2Q067	Q13002	-0.59809
94680	Q2Q067	Q9Y2K1	-0.15502
94681	Q2Q067	Q9BRX9	-0.22757
94682	Q2Q067	P02774	-0.73057
94683	Q2Q067	Q8IU89	-0.25804
94684	Q2Q067	Q8N387	-1.6088
94685	Q2Q067	Q96A65	-0.19167
94686	Q2Q067	Q92878	-0.2181
94687	Q2Q067	A5D6W6	-0.88983
94688	Q2Q067	Q9Y2L5	-0.10635
94689	Q2Q067	Q7Z7L1	-0.62868
94690	Q2Q067	Q92904	-0.27096
94691	Q2Q067	Q14667	-0.98666
94692	Q2Q067	P01042	-0.72982
94693	Q2Q067	Q96EL3	-0.18351
94694	Q2Q067	P30988	-0.77415
94695	Q2Q067	Q8TCT1	-0.35212
94696	Q2Q067	Q86X27	-0.97462

94697	Q2Q067	Q09470	-0.9572
94698	Q2Q067	Q9Y2Y8	-0.3787
94699	Q2Q067	O43313	-0.22741
94700	Q2Q067	Q8NFD4	-0.031529
94701	Q2Q067	A6NGA9	-1.0345
94702	Q2Q067	P45954	-0.47
94703	Q2Q067	O00124	-0.40776
94704	Q2Q067	O15428	-0.24416
94705	Q2Q067	Q14654	-0.62187
94706	Q2Q067	Q9H295	-0.50004
94707	Q2Q067	P0CAP1	-0.35617
94708	Q2Q067	P41217	-0.7064
94709	Q2Q067	O75841	-0.84315
94710	Q2Q067	Q9UHP3	-0.27167
94711	Q2Q067	Q8WW22	-0.48124
94712	Q2Q067	Q15311	-0.41929
94713	Q2Q067	P01718	-1.1115
94714	Q2Q067	P0C7X1	-1.4231
94715	Q2Q067	Q5TYW1	-0.085533
94716	Q2Q067	Q9Y5Y5	-0.49402
94717	Q2Q067	Q8TDN2	-1.0103
94718	Q2Q067	P00352	-0.31893
94719	Q2Q067	Q8WUJ3	-0.22047
94720	Q2Q067	Q9Y4K3	-0.2273
94721	Q2Q067	P14138	-0.77191
94722	Q2Q067	P35241	-0.23066
94723	Q2Q067	Q92574	-0.22726
94724	Q2Q067	Q9ULW2	-0.86657
94725	Q2Q067	O00767	-1.1099
94726	Q2Q067	A4D256	-0.89343
94727	Q2Q067	Q96AB6	-0.099726
94728	Q2Q067	Q8NGM1	-1.4096
94729	Q2Q067	Q86UG4	-1.163
94730	Q2Q067	Q6P158	-1.0197
94731	Q2Q067	Q96FV2	-0.56029
94732	Q2Q067	Q96IW7	-0.68398
94733	Q2Q067	Q14390	-0.36767
94734	Q2Q067	O60840	-0.99182
94735	Q2Q067	Q9NQA5	-1.2282
94736	Q2Q067	Q8N2K0	-0.95523
94737	Q2Q067	Q9UPX6	-1.0345
94738	Q2Q067	P30414	-0.4093
94739	Q2Q067	P20366	-0.8509
94740	Q2Q067	P46531	-0.22971
94741	Q2Q067	Q9BW83	-1.1609
94742	Q2Q067	O75096	-0.58299
94743	Q2Q067	Q8IZP6	-0.50058
94744	Q2Q067	Q6PL18	-0.23125
94745	Q2Q067	Q96DS6	-1.0345
94746	Q2Q067	Q9UBQ7	-0.59791
94747	Q2Q067	P49640	-0.22265
94748	Q2Q067	P11233	-0.38128
94749	Q2Q067	Q9H2D1	-0.61568
94750	Q2Q067	Q96R27	-1.4096
94751	Q2Q067	Q9H223	-0.2897
94752	Q2Q067	Q12860	-0.55506
94753	Q2Q067	P17152	-0.23914
94754	Q2Q067	Q86U44	-0.18496
94755	Q2Q067	O43927	-0.765
94756	Q2Q067	Q7RTX9	-1.1513
94757	Q2Q067	Q9Y5G8	-1.3679
94758	Q2Q067	O00305	-0.22725
94759	Q2Q067	O60830	-0.53984
94760	Q2Q067	Q12846	-0.2327
94761	Q2Q067	P06737	-0.37154
94762	Q2Q067	Q8TAV3	-0.80074
94763	Q2Q067	Q9NS68	-0.83199
94764	Q2Q067	Q13371	-0.73967
94765	Q2Q067	Q6ZS82	-1.115
94766	Q2Q067	Q9BY14	-0.65938
94767	Q2Q067	Q86WV6	-0.087916
94768	Q2Q067	O14979	-0.2488
94769	Q2Q067	P04222	-1.1453
94770	Q2Q067	Q8TF05	-0.18976
94771	Q2Q067	Q04609	-1.0772
94772	Q2Q067	Q9BYZ8	-0.97472

94773	Q2Q067	Q9HC23	-1.0166
94774	Q2Q067	Q96J01	-0.22723
94775	Q2Q067	O00459	-0.2274
94776	Q2Q067	Q5T848	-1.4967
94777	Q2Q067	P0DM48	-0.22718
94778	Q2Q067	Q8NG94	-1.4096
94779	Q2Q067	P20132	-0.15992
94780	Q2Q067	P31942	-0.29251
94781	Q2Q067	Q8TDW7	-1.5337
94782	Q2Q067	Q9H6F2	-0.66887
94783	Q2Q067	Q9BY43	-0.21562
94784	Q2Q067	Q9BSA9	-1.0345
94785	Q2Q067	O14523	-0.77947
94786	Q2Q067	Q8IWF9	-0.09553
94787	Q2Q067	Q06732	-0.067277
94788	Q2Q067	P05023	-0.51244
94789	Q2Q067	Q9BXR3	-0.36034
94790	Q2Q067	O75298	-0.56152
94791	Q2Q067	Q96MF6	-0.33494
94792	Q2Q067	Q01650	-0.84677
94793	Q2Q067	P01601	-1.1115
94794	Q2Q067	Q8IX19	-1.0345
94795	Q2Q067	Q96QH2	-0.22574
94796	Q2Q067	Q02221	-0.33814
94797	Q2Q067	P57738	-1.0345
94798	Q2Q067	Q8NF37	-0.62754
94799	Q2Q067	Q9H2V7	-0.38285
94800	Q2Q067	Q8WU79	-0.34212
94801	Q2Q067	Q9NZN1	-0.71877
94802	Q2Q067	Q6GV28	-1.0582
94803	Q2Q067	P02768	-0.31003
94804	Q2Q067	Q6NUI2	-0.68864
94805	Q2Q067	Q9H6R6	-1.1974
94806	Q2Q067	Q96RI0	-1.5373
94807	Q2Q067	Q8NI32	-0.65821
94808	Q2Q067	Q8N6Q3	-0.62164
94809	Q2Q067	Q9NXN4	-0.38591
94810	Q2Q067	Q9C0I9	-0.22787
94811	Q2Q067	Q9NW75	-0.46392
94812	Q2Q067	O95466	-0.22417
94813	Q2Q067	O15547	-0.922
94814	Q2Q067	Q9Y315	-0.33728
94815	Q2Q067	P0CJ68	-0.80201
94816	Q2Q067	O75575	-0.67841
94817	Q2Q067	P57735	-0.64806
94818	Q2Q067	Q6UB28	-0.58368
94819	Q2Q067	P21815	-1.1284
94820	Q2Q067	P55001	-0.92776
94821	Q2Q067	Q53F39	-0.52184
94822	Q2Q067	Q9GZZ8	-0.58621
94823	Q2Q067	O15389	-1.2081
94824	Q2Q067	A6NCF6	-0.1649
94825	Q2Q067	Q9Y2G8	-1.0604
94826	Q2Q067	Q6NW40	-0.84204
94827	Q2Q067	Q8NFM7	-0.2733
94828	Q2Q067	Q86YT9	-0.99676
94829	Q2Q067	Q9NYY1	-0.96196
94830	Q2Q067	Q92913	-0.28029
94831	Q2Q067	Q9HCM2	-0.87563
94832	Q2Q067	Q9NVH0	-0.69115
94833	Q2Q067	Q9NZ94	-0.37994
94834	Q2Q067	O00624	-1.1959
94835	Q2Q067	O43405	-0.44152
94836	Q2Q067	Q69YW0	-0.059378
94837	Q2Q067	Q8WXI4	-0.18737
94838	Q2Q067	P10153	-0.94238
94839	Q2Q067	Q9UHD1	-0.17627
94840	Q2Q067	Q8N6T3	-0.17179
94841	Q2Q067	Q6NSJ2	-0.51797
94842	Q2Q067	Q9H4I3	-0.093298
94843	Q2Q067	Q6J4K2	-1.2256
94844	Q2Q067	O60234	-0.65245
94845	Q2Q067	Q8NHA4	-1.4096
94846	Q2Q067	P54707	-1.1119
94847	Q2Q067	Q9P2K9	-0.6962
94848	Q2Q067	Q15291	-0.22748

94849	Q2Q067	Q8N302	-0.49914
94850	Q2Q067	O75051	-1.2565
94851	Q2Q067	Q5T2P9	-1.1564
94852	Q2Q067	O76027	-0.22608
94853	Q2Q067	Q149N8	-0.76397
94854	Q2Q067	O14775	-0.48815
94855	Q2Q067	Q13882	-0.74895
94856	Q2Q067	Q9UNA1	-0.43537
94857	Q2Q067	Q16610	-0.51356
94858	Q2Q067	Q6ZWL3	-1.2978
94859	Q2Q067	O75077	-1.4527
94860	Q2Q067	Q86T03	-1.0672
94861	Q2Q067	Q63HR2	-0.22741
94862	Q2Q067	Q8TC94	-0.21707
94863	Q2Q067	A4D2P6	-0.43144
94864	Q2Q067	Q9Y3P9	-0.23202
94865	Q2Q067	Q99487	-0.38057
94866	Q2Q067	P43246	-0.18673
94867	Q2Q067	O00238	-0.83934
94868	Q2Q067	P51571	-0.80965
94869	Q2Q067	P35228	-0.25296
94870	Q2Q067	P01625	-1.1115
94871	Q2Q067	Q6P9F5	-0.73178
94872	Q2Q067	Q8IWR1	-1.2896
94873	Q2Q067	Q04844	-1.1899
94874	Q2Q067	Q9NYS0	-1.1263
94875	Q2Q067	Q9NZK7	-0.94288
94876	Q2Q067	Q30167	-0.79235
94877	Q2Q067	Q5SQS7	-0.22741
94878	Q2Q067	Q9BQA9	-0.35359
94879	Q2Q067	Q6ZP65	-0.15583
94880	Q2Q067	Q9BXE9	-1.4199
94881	Q2Q067	Q9P2E7	-1.3679
94882	Q2Q067	P43629	-1.2886
94883	Q2Q067	Q9BUE6	-0.1902
94884	Q2Q067	Q7RTX0	-1.3532
94885	Q2Q067	P49757	-0.2825
94886	Q2Q067	Q5T8D3	-1.1693
94887	Q2Q067	P01716	-1.1115
94888	Q2Q067	Q9H3M9	-0.26676
94889	Q2Q067	P11279	-1.0381
94890	Q2Q067	Q07507	-1.2709
94891	Q2Q067	Q08830	-1.2137
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94893	Q2Q067	Q8IWW6	-1.1792
94894	Q2Q067	Q5TAH2	-1.172
94895	Q2Q067	Q969F0	-0.99456
94896	Q2Q067	Q5JUW0	-0.27686
94897	Q2Q067	Q86SI9	-0.98666
94898	Q2Q067	P18859	-0.26564
94899	Q2Q067	Q9Y241	-0.84325
94900	Q2Q067	Q13530	-0.96154
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94902	Q2Q067	Q9H598	-0.9301
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94904	Q2Q067	Q9H228	-1.3736
94905	Q2Q067	Q43353	-0.22741
94906	Q2Q067	Q7Z5A4	-1.5202
94907	Q2Q067	Q96DU7	-0.51375
94908	Q2Q067	Q9NRV9	-0.91151
94909	Q2Q067	A6NIU2	-0.19456
94910	Q2Q067	Q6ZTQ3	-0.20298
94911	Q2Q067	O95409	-0.42597
94912	Q2Q067	Q5HYA8	-0.35701
94913	Q2Q067	Q6PF15	-0.22446
94914	Q2Q067	P20020	-0.88516
94915	Q2Q067	Q9BTY7	-0.24416
94916	Q2Q067	Q13608	-0.26765
94917	Q2Q067	Q8NGK2	-1.4096
94918	Q2Q067	Q9UG01	-0.72356
94919	Q2Q067	P58397	-1.4569
94920	Q2Q067	Q7Z4H4	-0.86544
94921	Q2Q067	P22303	-0.22724
94922	Q2Q067	Q9Y679	-0.5765
94923	Q2Q067	Q16651	-1.3091
94924	Q2Q067	Q5S007	-0.4715

94925	Q2Q067	Q96FJ0	-0.33375
94926	Q2Q067	Q3KNW5	-1.1759
94927	Q2Q067	P08833	-0.94756
94928	Q2Q067	Q96AY4	-0.22741
94929	Q2Q067	P30740	-0.17434
94930	Q2Q067	Q9BXU3	-0.73178
94931	Q2Q067	C9J2P7	-0.76972
94932	Q2Q067	Q96LW2	-1.3228
94933	Q2Q067	Q59H18	-0.41763
94934	Q2Q067	O94892	-0.085533
94935	Q2Q067	A8MXV6	-1.0345
94936	Q2Q067	Q9H061	-0.73055
94937	Q2Q067	Q86UP9	-1.0345
94938	Q2Q067	P58549	-1.1369
94939	Q2Q067	P05362	-0.42291
94940	Q2Q067	Q8N1C3	-0.92853
94941	Q2Q067	P59539	-1.3729
94942	Q2Q067	Q8TCD1	-0.63565
94943	Q2Q067	O15488	-0.077555
94944	Q2Q067	P79522	-0.50058
94945	Q2Q067	O95177	-0.24416
94946	Q2Q067	Q8IUF1	-0.91075
94947	Q2Q067	Q15622	-1.4096
94948	Q2Q067	P04440	-0.81493
94949	Q2Q067	Q8WUK0	-0.74543
94950	Q2Q067	P04208	-1.1115
94951	Q2Q067	Q9Y508	-1.1276
94952	Q2Q067	Q13336	-1.1542
94953	Q2Q067	P14923	-0.66409
94954	Q2Q067	Q8IVL8	-1.3781
94955	Q2Q067	Q14994	-0.22817
94956	Q2Q067	Q8TDM0	-0.20901
94957	Q2Q067	Q8N4L2	-1.0672
94958	Q2Q067	O15374	-1.2284
94959	Q2Q067	Q8WWP7	-1.3412
94960	Q2Q067	O14544	-0.22731
94961	Q2Q067	Q99523	-0.38526
94962	Q2Q067	Q3KNW1	-0.21165
94963	Q2Q067	P78325	-0.50094
94964	Q2Q067	Q53G44	-0.28719
94965	Q2Q067	Q6ZVS6	-0.98666
94966	Q2Q067	Q9Y691	-1.1382
94967	Q2Q067	P46019	-0.23452
94968	Q2Q067	Q6DKI1	-0.11694
94969	Q2Q067	Q8N6C5	-0.74432
94970	Q2Q067	O15492	-0.22785
94971	Q2Q067	Q9GIP4	-1.0256
94972	Q2Q067	Q9HD45	-1.0992
94973	Q2Q067	Q8N0U7	-0.45603
94974	Q2Q067	Q8TD30	-0.21198
94975	Q2Q067	Q6IF82	-1.4096
94976	Q2Q067	Q7L4S7	-1.0345
94977	Q2Q067	P28068	-1.0698
94978	Q2Q067	Q6DKJ4	-0.17899
94979	Q2Q067	Q16617	-1.3184
94980	Q2Q067	P01742	-1.1115
94981	Q2Q067	P45844	-0.56646
94982	Q2Q067	Q7RTZ1	-1.5804
94983	Q2Q067	Q96PE3	-0.19387
94984	Q2Q067	Q9UPQ8	-0.94644
94985	Q2Q067	O75452	-1.5795
94986	Q2Q067	Q5H9U9	-0.98139
94987	Q2Q067	P05106	-0.39285
94988	Q2Q067	Q15084	-0.26228
94989	Q2Q067	Q01814	-0.38331
94990	Q2Q067	Q9BRK0	-1.0345
94991	Q2Q067	Q6ZMC9	-1.0345
94992	Q2Q067	O75165	-0.46295
94993	Q2Q067	Q9Y5I1	-1.4044
94994	Q2Q067	Q5EG05	-0.66937
94995	Q2Q067	A6NCW7	-0.26527
94996	Q2Q067	Q8NFP0	-0.4038
94997	Q2Q067	Q8TD19	-0.22741
94998	Q2Q067	Q6UXG3	-1.0866
94999	Q2Q067	Q8IX94	-0.90414
95000	Q2Q067	P07942	-0.7437

95001	Q2Q067	P17600	-0.54174
95002	Q2Q067	Q9Y4F9	-0.49991
95003	Q2Q067	Q9H8G2	-0.35564
95004	Q2Q067	P04201	-0.89921
95005	Q2Q067	A1L453	-1.5202
95006	Q2Q067	Q9Y661	-1.3238
95007	Q2Q067	Q9UPY6	-0.20692
95008	Q2Q067	Q96GD3	-0.12723
95009	Q2Q067	Q5QGS0	-0.13406
95010	Q2Q067	P12931	-0.22979
95011	Q2Q067	Q8N413	-0.85935
95012	Q2Q067	Q9H7F0	-1.2567
95013	Q2Q067	Q9Y6F1	-0.21208
95014	Q2Q067	P01700	-1.1115
95015	Q2Q067	Q8TEH3	-0.72872
95016	Q2Q067	Q9UKP5	-1.4569
95017	Q2Q067	Q9BRQ0	-0.23441
95018	Q2Q067	O43900	-0.2326
95019	Q2Q067	Q9UBD9	-0.3677
95020	Q2Q067	Q8NAP8	-0.22537
95021	Q2Q067	Q7Z7L7	-0.39365
95022	Q2Q067	Q15835	-1.2149
95023	Q2Q067	P18074	-0.24707
95024	Q2Q067	Q8N945	-0.21265
95025	Q2Q067	Q9HCR9	-0.27666
95026	Q2Q067	Q5XKL5	-0.22629
95027	Q2Q067	Q5TZJ5	-1.0345
95028	Q2Q067	Q8WWV6	-1.1125
95029	Q2Q067	P23471	-1.3809
95030	Q2Q067	P42830	-1.084
95031	Q2Q067	Q6AZZ1	-0.22742
95032	Q2Q067	O14810	-0.28123
95033	Q2Q067	Q8N6L0	-1.0552
95034	Q2Q067	Q8N6F1	-0.41342
95035	Q2Q067	Q9NQW5	-0.31097
95036	Q2Q067	Q8N3T1	-0.80599
95037	Q2Q067	Q02161	-1.1043
95038	Q2Q067	Q93045	-0.19783
95039	Q2Q067	P48594	-0.65195
95040	Q2Q067	Q96P88	-1.4196
95041	Q2Q067	Q86SX6	-0.21856
95042	Q2Q067	P30455	-1.0994
95043	Q2Q067	P47712	-0.22761
95044	Q2Q067	Q8IZR5	-1.0608
95045	Q2Q067	Q95857	-1.1904
95046	Q2Q067	Q92874	-0.88967
95047	Q2Q067	Q6NUM9	-0.62975
95048	Q2Q067	Q86WB7	-1.004
95049	Q2Q067	Q96L93	-0.82094
95050	Q2Q067	P31371	-0.68997
95051	Q2Q067	P0DJD0	-0.48206
95052	Q2Q067	Q96QI5	-0.64917
95053	Q2Q067	Q6NSJ5	-1.0345
95054	Q2Q067	O60266	-0.69011
95055	Q2Q067	O94966	-0.81327
95056	Q2Q067	Q8N8W4	-0.51309
95057	Q2Q067	Q9UK80	-0.32044
95058	Q2Q067	Q17R89	-0.39066
95059	Q2Q067	Q8IWZ4	-0.73178
95060	Q2Q067	Q7RTP6	-0.55778
95061	Q2Q067	Q9NV06	-0.22742
95062	Q2Q067	A8MVX0	-0.70301
95063	Q2Q067	Q9NYN1	-1.4198
95064	Q2Q067	P17858	-0.28765
95065	Q2Q067	P01848	-1.1103
95066	Q2Q067	P40313	-1.0707
95067	Q2Q067	P01762	-1.1115
95068	Q2Q067	Q9NUN7	-0.48561
95069	Q2Q067	Q96PC5	-0.98666
95070	Q2Q067	Q96QG7	-0.22016
95071	Q2Q067	A6NNX1	-0.56189
95072	Q2Q067	P01562	-0.84976
95073	Q2Q067	P32455	-1.0564
95074	Q2Q067	Q9NRD5	-0.22728
95075	Q2Q067	Q96HR9	-1.0345
95076	Q2Q067	Q8IVS8	-0.10627



95077	Q2Q067	P10319	-1.1453
95078	Q2Q067	Q8NA29	-1.2495
95079	Q2Q067	P09038	-0.29101
95080	Q2Q067	Q9BVV8	-0.81878
95081	Q2Q067	P42336	-0.29153
95082	Q2Q067	Q8TCV5	-0.90081
95083	Q2Q067	Q15762	-0.83317
95084	Q2Q067	Q9BY84	-0.5256
95085	Q2Q067	Q2VWP7	-1.2391
95086	Q2Q067	Q9H553	-0.20989
95087	Q2Q067	P54368	-0.11639
95088	Q2Q067	Q14849	-0.99895
95089	Q2Q067	Q8NAF0	-0.19903
95090	Q2Q067	Q9UJV8	-0.1381
95091	Q2Q067	Q9NV58	-0.48267
95092	Q2Q067	Q6ZUB0	-1.0345
95093	Q2Q067	O94876	-1.0345
95094	Q2Q067	Q8N4F4	-1.171
95095	Q2Q067	Q99801	-0.23001
95096	Q2Q067	Q9NWT1	-0.22787
95097	Q2Q067	P49747	-0.70616
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95099	Q2Q067	Q8IUE6	-0.82527
95100	Q2Q067	Q16831	-0.16503
95101	Q2Q067	Q969Q5	-0.2331
95102	Q2Q067	Q86WA6	-0.24439
95103	Q2Q067	Q8N144	-0.68462
95104	Q2Q067	Q9BXJ8	-0.77947
95105	Q2Q067	Q13153	-0.22769
95106	Q2Q067	Q969M3	-0.60106
95107	Q2Q067	Q9Y5G4	-1.3679
95108	Q2Q067	P49961	-1.7073
95109	Q2Q067	Q96I15	-0.34931
95110	Q2Q067	Q8N130	-1.0178
95111	Q2Q067	Q9UPS8	-0.2341
95112	Q2Q067	Q96L46	-0.53278
95113	Q2Q067	P12273	-1.0137
95114	Q2Q067	P07225	-0.86631
95115	Q2Q067	P06702	-0.2279
95116	Q2Q067	P78348	-0.79554
95117	Q2Q067	Q14587	-0.067277
95118	Q2Q067	Q9Y2R0	-0.86095
95119	Q2Q067	Q13069	-0.18742
95120	Q2Q067	P51811	-0.41645
95121	Q2Q067	A8MX19	-0.43957
95122	Q2Q067	P12314	-0.83147
95123	Q2Q067	O75487	-1.1576
95124	Q2Q067	O60271	-0.20664
95125	Q2Q067	Q29836	-1.1453
95126	Q2Q067	Q16557	-0.9841
95127	Q2Q067	Q02045	-0.41459
95128	Q2Q067	Q15344	-0.40647
95129	Q2Q067	O60858	-0.69365
95130	Q2Q067	Q96JA1	-1.0345
95131	Q2Q067	P31277	-0.26149
95132	Q2Q067	Q96MU8	-0.42047
95133	Q2Q067	Q3C1V0	-1.0345
95134	Q2Q067	Q15126	-0.66046
95135	Q2Q067	O60739	-0.19035
95136	Q2Q067	Q4G0S4	-0.75716
95137	Q2Q067	O43143	-0.54596
95138	Q2Q067	Q6UXA7	-0.81501
95139	Q2Q067	P36222	-0.56121
95140	Q2Q067	Q8NCK7	-1.1513
95141	Q2Q067	Q9BY60	-0.1753
95142	Q2Q067	Q8IZY2	-1.0147
95143	Q2Q067	Q96GX1	-0.82845
95144	Q2Q067	Q96KV7	-0.22759
95145	Q2Q067	O95785	-0.41024
95146	Q2Q067	Q92974	-0.22743
95147	Q2Q067	Q52LC2	-0.9277
95148	Q2Q067	O00241	-0.9071
95149	Q2Q067	Q96SM3	-1.5439
95150	Q2Q067	Q06413	-0.14642
95151	Q2Q067	Q9H3R2	-1.6054
95152	Q2Q067	Q14330	-1.4336

95153	Q2Q067	P12643	-0.22741
95154	Q2Q067	Q96L11	-0.98666
95155	Q2Q067	Q96FW1	-0.05638
95156	Q2Q067	A6NMX2	-0.09932
95157	Q2Q067	O75326	-0.30778
95158	Q2Q067	Q86VS3	-0.31922
95159	Q2Q067	P58512	-0.37256
95160	Q2Q067	Q96LL9	-0.34065
95161	Q2Q067	Q7Z6J2	-0.22778
95162	Q2Q067	Q68CJ6	-0.53409
95163	Q2Q067	A4D2B0	-0.40827
95164	Q2Q067	P11047	-0.94019
95165	Q2Q067	Q6UW02	-1.1665
95166	Q2Q067	O00178	-0.83867
95167	Q2Q067	O43506	-1.3963
95168	Q2Q067	Q5SZB4	-0.0044854
95169	Q2Q067	P19827	-0.91631
95170	Q2Q067	P51151	-0.66617
95171	Q2Q067	Q9ULH0	-0.65928
95172	Q2Q067	Q5VT98	-0.19475
95173	Q2Q067	Q16777	-0.82527
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95175	Q2Q067	Q9ULR3	-0.47365
95176	Q2Q067	P24394	-1.088
95177	Q2Q067	Q9Y6K8	-0.50526
95178	Q2Q067	Q5TAT6	-1.1326
95179	Q2Q067	Q5SQ80	-0.2274
95180	Q2Q067	Q86WZ6	-0.085533
95181	Q2Q067	Q13480	-0.22732
95182	Q2Q067	P01375	-0.24807
95183	Q2Q067	Q8IV45	-0.99454
95184	Q2Q067	A6NMD0	-1.1566
95185	Q2Q067	P41225	-0.24543
95186	Q2Q067	Q8IWU5	-0.4806
95187	Q2Q067	Q68CQ4	-0.10494
95188	Q2Q067	Q9C091	-1.0345
95189	Q2Q067	Q99954	-0.98666
95190	Q2Q067	Q9NPA2	-1.579
95191	Q2Q067	Q4G0X4	-0.18017
95192	Q2Q067	B2RN74	-1.4096
95193	Q2Q067	P30518	-0.89619
95194	Q2Q067	A8MQB9	-0.22741
95195	Q2Q067	Q969F8	-0.97676
95196	Q2Q067	Q8IXB3	-1.0325
95197	Q2Q067	Q96SZ5	-0.4844
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95199	Q2Q067	O43464	-0.22612
95200	Q2Q067	P11464	-1.0002
95201	Q2Q067	Q12879	-0.29298
95202	Q2Q067	Q8NHS2	-0.375
95203	Q2Q067	A6NET4	-1.4096
95204	Q2Q067	Q8WTY6	-0.16693
95205	Q2Q067	Q8ND23	-0.22708
95206	Q2Q067	P40199	-0.33015
95207	Q2Q067	Q8IZ20	-0.21449
95208	Q2Q067	P42262	-0.99988
95209	Q2Q067	Q96IQ7	-1.1904
95210	Q2Q067	Q96PB8	-1.0345
95211	Q2Q067	Q8ND82	-0.22731
95212	Q2Q067	Q8NHY3	-0.3562
95213	Q2Q067	Q14435	-0.26722
95214	Q2Q067	Q9BT17	-0.31472
95215	Q2Q067	Q96LR1	-0.98666
95216	Q2Q067	Q6UWH6	-0.90678
95217	Q2Q067	Q6DKI7	-1.0345
95218	Q2Q067	P01215	-0.14177
95219	Q2Q067	Q6QHC5	-0.91002
95220	Q2Q067	Q9P272	-0.46621
95221	Q2Q067	Q96M86	-0.32737
95222	Q2Q067	Q5JT18	-0.40612
95223	Q2Q067	P32245	-0.69623
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95227	Q2Q067	Q6ZPD9	-1.0345
95228	Q2Q067	Q6ZN30	-0.22663

95229	Q2Q067	Q9UL68	-0.18027
95230	Q2Q067	P34932	-0.22586
95231	Q2Q067	A4D250	-0.15622
95232	Q2Q067	Q9BZX2	-0.64756
95233	Q2Q067	Q9HB29	-1.2857
95234	Q2Q067	Q29983	-0.7867
95235	Q2Q067	Q9NR90	-0.87644
95236	Q2Q067	Q96FS4	-0.22151
95237	Q2Q067	Q5VZF2	-0.071355
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95239	Q2Q067	Q76EJ3	-0.64672
95240	Q2Q067	Q9HD87	-1.0345
95241	Q2Q067	Q5TC82	-0.22741
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95243	Q2Q067	Q96J92	-1.011
95244	Q2Q067	Q5T7N3	-0.22741
95245	Q2Q067	Q96QZ0	-1.1015
95246	Q2Q067	Q7Z3U7	-0.18366
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95257	Q2Q067	Q96HH9	-0.21586
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95261	Q2Q067	Q8N2U9	-1.0345
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95268	Q2Q067	P51787	-0.89738
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95271	Q2Q067	Q9H871	-0.17877
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95321	Q2Q067	Q9BY07	-1.1235
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95323	Q2Q067	Q6UXT8	-0.98666
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95341	Q2Q067	Q13361	-1.0261
95342	Q2Q067	Q9NUN5	-1.0359
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95378	Q2Q067	Q01415	-0.78097
95379	Q2Q067	Q9BVK8	-1.1118
95380	Q2Q067	Q8TAC2	-0.81378

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95389	Q2Q067	P20702	-0.58307
95390	Q2Q067	Q02809	-0.72989
95391	Q2Q067	Q9H898	-0.50923
95392	Q2Q067	A6NDS4	-1.4231
95393	Q2Q067	Q9P2Y4	-0.22741
95394	Q2Q067	Q13402	-0.1867
95395	Q2Q067	Q8TCT0	-0.83479
95396	Q2Q067	Q8NBL1	-0.32164
95397	Q2Q067	Q96A25	-0.77947
95398	Q2Q067	B0YJ81	-1.5792
95399	Q2Q067	Q13126	-0.17136
95400	Q2Q067	P17026	-0.071856
95401	Q2Q067	Q9NX52	-1.5255
95402	Q2Q067	Q6UXQ4	-0.98666
95403	Q2Q067	O43157	-0.97562
95404	Q2Q067	A6NCK2	-0.73178
95405	Q2Q067	Q8N4G2	-0.77099
95406	Q2Q067	Q15768	-0.93529
95407	Q2Q067	Q8NH08	-1.4096
95408	Q2Q067	Q9NQY0	-0.31564
95409	Q2Q067	P10071	-0.22733
95410	Q2Q067	Q53H54	-0.33689
95411	Q2Q067	O15130	-1.072
95412	Q2Q067	Q5VXH5	-0.19475
95413	Q2Q067	Q9H6D5	-1.0345
95414	Q2Q067	Q9Y5T5	-0.26759
95415	Q2Q067	Q9Y5K3	-0.40483
95416	Q2Q067	Q70IA8	-0.43755
95417	Q2Q067	Q96M34	-0.032876
95418	Q2Q067	Q9NUD5	-0.50058
95419	Q2Q067	Q99712	-1.384
95420	Q2Q067	Q96Q04	-1.3874
95421	Q2Q067	P11684	-0.75582
95422	Q2Q067	Q53H82	-0.2353
95423	Q2Q067	O75367	-0.3809
95424	Q2Q067	P0C2W1	-0.21704
95425	Q2Q067	Q9UNK4	-0.94288
95426	Q2Q067	P01850	-1.0636
95427	Q2Q067	P62191	-0.30163
95428	Q2Q067	P55000	-1.1254
95429	Q2Q067	P33176	-0.23349
95430	Q2Q067	P06331	-1.1115
95431	Q2Q067	P01135	-0.3255
95432	Q2Q067	Q9H892	-0.2251
95433	Q2Q067	Q9UFV1	-1.0238
95434	Q2Q067	Q8NGG0	-1.4096
95435	Q2Q067	Q8N292	-1.1348
95436	Q2Q067	Q6UX41	-0.35359
95437	Q2Q067	O43824	-1.0835
95438	Q2Q067	P09493	-0.22523
95439	Q2Q067	Q9P0L2	-1.1668
95440	Q2Q067	Q86YM7	-0.39309
95441	Q2Q067	Q96AG3	-0.62542
95442	Q2Q067	Q86SZ3	-0.26258
95443	Q2Q067	A8MY62	-0.28979
95444	Q2Q067	Q5SQQ9	-0.22703
95445	Q2Q067	Q8N112	-1.0345
95446	Q2Q067	Q4G176	-1.0498
95447	Q2Q067	A8MUK1	-0.44208
95448	Q2Q067	P36959	-0.42076
95449	Q2Q067	Q96F10	-0.25523
95450	Q2Q067	P42566	-0.2274
95451	Q2Q067	Q9C0B9	-0.44593
95452	Q2Q067	P22492	-1.1352
95453	Q2Q067	Q6WQI6	-0.20901
95454	Q2Q067	Q6ZT98	-0.72137
95455	Q2Q067	Q9NY84	-0.50297
95456	Q2Q067	Q9NQT8	-0.44959

95457	Q2Q067	Q9HBG6	-0.22742
95458	Q2Q067	Q9Y6C9	-0.86765
95459	Q2Q067	Q9NXI6	-1.1176
95460	Q2Q067	O75923	-0.98155
95461	Q2Q067	Q9Y3E0	-0.69104
95462	Q2Q067	Q9P2B2	-0.35975
95463	Q2Q067	O95969	-1.0374
95464	Q2Q067	Q7L5N7	-0.78616
95465	Q2Q067	P49418	-0.22741
95466	Q2Q067	Q75N90	-1.0992
95467	Q2Q067	Q3KRA9	-0.23868
95468	Q2Q067	Q86T96	-0.75054
95469	Q2Q067	Q9UJ37	-0.81633
95470	Q2Q067	Q6ICL7	-1.0345
95471	Q2Q067	Q6P9G0	-0.44013
95472	Q2Q067	Q99581	-0.1262
95473	Q2Q067	A6NL88	-1.0345
95474	Q2Q067	O15381	-0.38912
95475	Q2Q067	O96009	-1.2583
95476	Q2Q067	Q6GYQ0	-0.21211
95477	Q2Q067	Q14651	-0.39207
95478	Q2Q067	P05093	-0.48487
95479	Q2Q067	Q12981	-0.16142
95480	Q2Q067	P03372	-0.22762
95481	Q2Q067	P21854	-0.81492
95482	Q2Q067	P05111	-0.51863
95483	Q2Q067	Q86WG5	-0.2274
95484	Q2Q067	Q15726	-0.28293
95485	Q2Q067	Q9HBA0	-0.49875
95486	Q2Q067	P29279	-0.30757
95487	Q2Q067	P21549	-0.21002
95488	Q2Q067	Q9BZ68	-0.3932
95489	Q2Q067	P11234	-0.42071
95490	Q2Q067	P78368	-0.98211
95491	Q2Q067	P49765	-0.7252
95492	Q2Q067	Q8IV04	-1.4231
95493	Q2Q067	Q70UQ0	-0.39667
95494	Q2Q067	P24298	-0.21358
95495	Q2Q067	P78357	-0.66428
95496	Q2Q067	P08118	-0.59321
95497	Q2Q067	Q9Y5M8	-1.314
95498	Q2Q067	Q9Y264	-0.86302
95499	Q2Q067	Q9NZP5	-1.4096
95500	Q2Q067	A7E2S9	-0.22741
95501	Q2Q067	Q13972	-0.60758
95502	Q2Q067	P0C617	-1.4096
95503	Q2Q067	P61601	-0.66824
95504	Q2Q067	P01720	-1.1115
95505	Q2Q067	P13631	-0.23926
95506	Q2Q067	B2RUY7	-0.933
95507	Q2Q067	Q9NR20	-1.2074
95508	Q2Q067	Q8WUA7	-1.3346
95509	Q2Q067	Q96KC8	-0.24999
95510	Q2Q067	E9PKD4	-0.073316
95511	Q2Q067	A6NCL2	-0.2074
95512	Q2Q067	P56704	-0.25228
95513	Q2Q067	P01815	-1.1115
95514	Q2Q067	P55283	-1.277
95515	Q2Q067	O75716	-0.62362
95516	Q2Q067	O43521	-0.21465
95517	Q2Q067	A6NDP7	-1.0345
95518	Q2Q067	Q16394	-0.58053
95519	Q2Q067	Q7L2E3	-0.2259
95520	Q2Q067	Q8NC96	-0.47563
95521	Q2Q067	Q9NWZ3	-0.22735
95522	Q2Q067	Q86VR8	-1.0374
95523	Q2Q067	O75128	-0.68258
95524	Q2Q067	Q9H1P3	-0.80691
95525	Q2Q067	Q86UV7	-0.73178
95526	Q2Q067	Q2TAC6	-0.71913
95527	Q2Q067	Q9HCH3	-0.5142
95528	Q2Q067	Q6ZRU5	-0.98666
95529	Q2Q067	A6NCS4	-0.24941
95530	Q2Q067	Q9UH62	-0.87637
95531	Q2Q067	O95834	-0.55878
95532	Q2Q067	Q8IUZ0	-0.2274

95533	Q2Q067	P04000	-1.5773
95534	Q2Q067	Q9UH64	-0.18529
95535	Q2Q067	O95450	-1.3577
95536	Q2Q067	P41597	-0.59268
95537	Q2Q067	P34981	-1.3858
95538	Q2Q067	O94903	-0.28001
95539	Q2Q067	Q05D32	-0.49368
95540	Q2Q067	P59533	-1.3729
95541	Q2Q067	P0C264	-1.3228
95542	Q2Q067	Q8NHM4	-1.5362
95543	Q2Q067	Q5SYC1	-0.71071
95544	Q2Q067	Q06250	-0.24416
95545	Q2Q067	Q53FV1	-1.0791
95546	Q2Q067	A8MX76	-1.124
95547	Q2Q067	Q8IVU9	-0.058703
95548	Q2Q067	Q8N5D6	-0.73141
95549	Q2Q067	Q8N8Q8	-0.56945
95550	Q2Q067	Q9Y5P4	-0.22763
95551	Q2Q067	P30203	-1.3106
95552	Q2Q067	Q9Y576	-0.70852
95553	Q2Q067	P78527	-0.30937
95554	Q2Q067	Q3MIR4	-0.34971
95555	Q2Q067	Q8TB73	-0.92434
95556	Q2Q067	P38435	-0.94436
95557	Q2Q067	O00443	-0.48121
95558	Q2Q067	Q96K58	-0.085533
95559	Q2Q067	Q9NQF3	-0.22215
95560	Q2Q067	Q68DH5	-1.0345
95561	Q2Q067	Q9HBG7	-1.0933
95562	Q2Q067	P01857	-0.53542
95563	Q2Q067	Q6UVW9	-0.42289
95564	Q2Q067	Q8NGS5	-1.4096
95565	Q2Q067	Q9BVM4	-0.43937
95566	Q2Q067	Q68DC2	-0.22743
95567	Q2Q067	O75563	-0.46138
95568	Q2Q067	Q16658	-0.1244
95569	Q2Q067	Q9H7Y2	-0.0079254
95570	Q2Q067	Q8IYW5	-0.22715
95571	Q2Q067	Q01064	-0.22488
95572	Q2Q067	Q9HCD6	-0.33444
95573	Q2Q067	Q9H425	-0.20901
95574	Q2Q067	P63131	-0.74403
95575	Q2Q067	Q8NEE6	-0.22254
95576	Q2Q067	Q6UXG8	-1.0345
95577	Q2Q067	Q14324	-0.72079
95578	Q2Q067	D6RCP7	-0.76972
95579	Q2Q067	Q6NXN4	-1.0345
95580	Q2Q067	Q969Z3	-0.59128
95581	Q2Q067	Q70CQ4	-0.76972
95582	Q2Q067	Q9H3M0	-1.0103
95583	Q2Q067	Q99250	-1.122
95584	Q2Q067	Q5TCY1	-0.86629
95585	Q2Q067	Q8NFA2	-0.45848
95586	Q2Q067	Q8N339	-0.14418
95587	Q2Q067	Q8TBE7	-0.90887
95588	Q2Q067	Q9H7V2	-0.93306
95589	Q2Q067	Q43491	-0.26698
95590	Q2Q067	Q8NGK5	-1.4096
95591	Q2Q067	Q15195	-0.98666
95592	Q2Q067	Q8IYP2	-1.5202
95593	Q2Q067	Q8N6Q1	-1.0345
95594	Q2Q067	Q75037	-0.71913
95595	Q2Q067	Q6ZUX3	-0.15501
95596	Q2Q067	P07766	-0.751
95597	Q2Q067	Q96RS6	-0.17164
95598	Q2Q067	Q96N96	-0.2275
95599	Q2Q067	Q01085	-0.37114
95600	Q2Q067	Q9Y3N9	-1.4096
95601	Q2Q067	Q8WWZ8	-0.22741
95602	Q2Q067	Q8WWY8	-1.3083
95603	Q2Q067	P08519	-1.2905
95604	Q2Q067	Q9BZH6	-0.82814
95605	Q2Q067	Q496F6	-1.1634
95606	Q2Q067	O00151	-0.22741
95607	Q2Q067	Q8IWA6	-0.0039445
95608	Q2Q067	O95260	-0.29897

95609	Q2Q067	Q8IUR5	-0.84904
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95611	Q2Q067	O75829	-1.5415
95612	Q2Q067	P05181	-0.50622
95613	Q2Q067	Q01523	-0.89259
95614	Q2Q067	Q15546	-1.2155
95615	Q2Q067	P43166	-0.20169
95616	Q2Q067	P55081	-0.88713
95617	Q2Q067	Q8TAK6	-0.22743
95618	Q2Q067	P01730	-0.46004
95619	Q2Q067	P30046	-0.33777
95620	Q2Q067	Q5SRN2	-1.0345
95621	Q2Q067	Q6NZ63	-1.0345
95622	Q2Q067	P35247	-0.53065
95623	Q2Q067	Q8N3P4	-0.48451
95624	Q2Q067	P47883	-1.4096
95625	Q2Q067	Q6UXU1	-0.98666
95626	Q2Q067	P27824	-0.30344
95627	Q2Q067	Q6UXP8	-0.98666
95628	Q2Q067	Q03431	-0.89964
95629	Q2Q067	Q8NEA6	-0.2273
95630	Q2Q067	Q6IA17	-0.58531
95631	Q2Q067	Q4G0Z9	-0.52769
95632	Q2Q067	Q9NPR2	-1.204
95633	Q2Q067	P0C854	-0.98666
95634	Q2Q067	Q6UX65	-0.95876
95635	Q2Q067	Q9BRC7	-0.56849
95636	Q2Q067	Q9BWV2	-1.3836
95637	Q2Q067	Q9UF11	-1.028
95638	Q2Q067	P11150	-0.80845
95639	Q2Q067	Q9H079	-0.18308
95640	Q2Q067	Q13232	-0.74897
95641	Q2Q067	Q86YG4	-0.40827
95642	Q2Q067	Q5H9E4	-0.86765
95643	Q2Q067	O76096	-0.84162
95644	Q2Q067	P50539	-0.22194
95645	Q2Q067	O95390	-0.64658
95646	Q2Q067	P55916	-0.5319
95647	Q2Q067	Q32M88	-0.37763
95648	Q2Q067	O75159	-0.22738
95649	Q2Q067	O14732	-0.30811
95650	Q2Q067	Q96S96	-0.52602
95651	Q2Q067	Q9Y663	-0.64917
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95653	Q2Q067	Q9GZT5	-0.9348
95654	Q2Q067	P08631	-0.32563
95655	Q2Q067	O14983	-0.49406
95656	Q2Q067	O00300	-0.99884
95657	Q2Q067	Q96FN5	-0.71913
95658	Q2Q067	Q31610	-1.1453
95659	Q2Q067	P0CW01	-0.44292
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95661	Q2Q067	P01911	-0.79235
95662	Q2Q067	Q6ZR37	-0.78041
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95664	Q2Q067	Q68CQ7	-0.8885
95665	Q2Q067	Q5VU65	-1.0345
95666	Q2Q067	Q32MK0	-0.83657
95667	Q2Q067	Q6UXY8	-1.0345
95668	Q2Q067	Q6NXR0	-1.036
95669	Q2Q067	Q5VXT5	-1.1098
95670	Q2Q067	A1L4Q6	-0.32186
95671	Q2Q067	Q8NH63	-1.4096
95672	Q2Q067	P0CJ92	-0.28132
95673	Q2Q067	P02585	-0.313
95674	Q2Q067	P51970	-0.16703
95675	Q2Q067	Q8TAX9	-0.20901
95676	Q2Q067	A6NMS7	-1.0345
95677	Q2Q067	Q92791	-0.073255
95678	Q2Q067	Q9H1Y3	-1.3198
95679	Q2Q067	Q6PI78	-0.84904
95680	Q2Q067	P61587	-1.3497
95681	Q2Q067	Q96JF6	-0.085533
95682	Q2Q067	Q9UBV4	-0.86883
95683	Q2Q067	Q9Y277	-1.201
95684	Q2Q067	A8MXT2	-0.032291



95685	Q2Q067	Q86XG9	-0.20901
95686	Q2Q067	P03901	-0.63242
95687	Q2Q067	Q9NPG4	-1.1884
95688	Q2Q067	Q6UW60	-1.2907
95689	Q2Q067	Q6UWQ5	-0.93539
95690	Q2Q067	Q6W0C5	-0.14552
95691	Q2Q067	P0CJ73	-0.80201
95692	Q2Q067	Q8N5W8	-0.98666
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95694	Q2Q067	Q9H9K5	-0.88843
95695	Q2Q067	O43237	-0.21136
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95697	Q2Q067	O43474	-0.22568
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95699	Q2Q067	Q8NH51	-1.4096
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95707	Q2Q067	P16403	-0.69207
95708	Q2Q067	Q6UY11	-1.0679
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95713	Q2Q067	E5RHQ5	-0.19297
95714	Q2Q067	Q8NGE8	-1.4096
95715	Q2Q067	Q8N441	-1.0824
95716	Q2Q067	P16401	-0.70729
95717	Q2Q067	Q96CX6	-0.22994
95718	Q2Q067	Q8IZF4	-1.5126
95719	Q2Q067	P20309	-0.74852
95720	Q2Q067	Q8N8D9	-0.083214
95721	Q2Q067	Q99759	-0.68536
95722	Q2Q067	Q68CK6	-0.81335
95723	Q2Q067	Q9UFC0	-0.33868
95724	Q2Q067	O15255	-0.55984
95725	Q2Q067	A8MWP4	-0.030698
95726	Q2Q067	Q8N841	-0.18532
95727	Q2Q067	O95361	-0.22545
95728	Q2Q067	Q96RA2	-1.1109
95729	Q2Q067	Q0P670	-1.0345
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95732	Q2Q067	P55317	-0.33602
95733	Q2Q067	O15260	-0.22238
95734	Q2Q067	Q6X784	-0.95735
95735	Q2Q067	Q9Y6H8	-1.0737
95736	Q2Q067	Q9NPG2	-0.093003
95737	Q2Q067	Q7Z5L2	-0.89117
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95739	Q2Q067	P16520	-0.45786
95740	Q2Q067	Q96DU3	-1.1712
95741	Q2Q067	Q8WVI7	-0.18815
95742	Q2Q067	O15204	-1.2929
95743	Q2Q067	Q8NGE5	-1.4096
95744	Q2Q067	P43304	-0.22716
95745	Q2Q067	O75891	-0.31038
95746	Q2Q067	Q8IVF2	-0.21753
95747	Q2Q067	P55157	-0.54941
95748	Q2Q067	Q9NP95	-0.9408
95749	Q2Q067	Q15223	-0.53365
95750	Q2Q067	Q9BZM2	-0.73788
95751	Q2Q067	O75477	-0.41769
95752	Q2Q067	P55103	-0.82517
95753	Q2Q067	Q6P9A2	-0.87193
95754	Q2Q067	O14727	-0.22821
95755	Q2Q067	P28329	-0.20427
95756	Q2Q067	A6NJS3	-0.98666
95757	Q2Q067	Q53EU6	-0.81157
95758	Q2Q067	Q9HCP6	-0.97396
95759	Q2Q067	B2RPK0	-0.45296
95760	Q2Q067	P26572	-0.66486

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95762	Q2Q067	Q9H4M7	-0.51463
95763	Q2Q067	Q9NXJ0	-1.0345
95764	Q2Q067	P59922	-1.4096
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95767	Q2Q067	P10600	-0.22741
95768	Q2Q067	P32242	-0.24281
95769	Q2Q067	Q6P988	-0.95044
95770	Q2Q067	P17301	-0.30041
95771	Q2Q067	Q9UBT6	-0.18973
95772	Q2Q067	P0CI25	-0.73178
95773	Q2Q067	P46439	-0.40501
95774	Q2Q067	Q5T3F8	-1.4752
95775	Q2Q067	Q8NGQ6	-1.4096
95776	Q2Q067	Q9BYE3	-0.37794
95777	Q2Q067	Q6IB77	-0.17643
95778	Q2Q067	Q6NSJ0	-0.71836
95779	Q2Q067	P08637	-1.6207
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95781	Q2Q067	Q8NGE7	-1.4096
95782	Q2Q067	Q14061	-0.29455
95783	Q2Q067	P16452	-0.15234
95784	Q2Q067	Q8WWB3	-0.053957
95785	Q2Q067	Q8NDB2	-0.38141
95786	Q2Q067	Q9P289	-0.46952
95787	Q2Q067	Q86VQ6	-0.57618
95788	Q2Q067	Q6NVV7	-0.11555
95789	Q2Q067	Q04741	-0.22708
95790	Q2Q067	P0C0P6	-0.93491
95791	Q2Q067	Q96N19	-1.0345
95792	Q2Q067	Q9H354	-1.0345
95793	Q2Q067	Q75795	-1.0343
95794	Q2Q067	Q5VYX0	-1.1227
95795	Q2Q067	P15735	-0.61088
95796	Q2Q067	Q8IYR2	-0.48451
95797	Q2Q067	Q9BYZ6	-1.2755
95798	Q2Q067	Q01851	-0.22741
95799	Q2Q067	A6NFH5	-0.63791
95800	Q2Q067	Q7Z7M0	-0.22741
95801	Q2Q067	Q9UF33	-1.3224
95802	Q2Q067	Q9BZ97	-1.0345
95803	Q2Q067	Q9UNK0	-1.1193
95804	Q2Q067	P02675	-0.90787
95805	Q2Q067	Q9BQL6	-0.62386
95806	Q2Q067	O43164	-0.38349
95807	Q2Q067	P00167	-0.56615
95808	Q2Q067	Q8N9Q2	-0.48783
95809	Q2Q067	Q6UWM9	-1.0097
95810	Q2Q067	Q9NVF9	-0.69167
95811	Q2Q067	Q5BKY1	-0.22777
95812	Q2Q067	P10070	-0.2273
95813	Q2Q067	Q86Y56	-0.12062
95814	Q2Q067	Q9BYJ1	-0.58874
95815	Q2Q067	P80188	-0.42486
95816	Q2Q067	Q9HCK0	-0.20837
95817	Q2Q067	P43353	-0.45843
95818	Q2Q067	Q8NHK3	-1.1634
95819	Q2Q067	Q9HBB8	-1.2337
95820	Q2Q067	O95425	-0.27115
95821	Q2Q067	P0CV98	-0.44292
95822	Q2Q067	Q9NPH2	-0.66329
95823	Q2Q067	Q8NES3	-1.0869
95824	Q2Q067	P04085	-0.31687
95825	Q2Q067	P06729	-0.92579
95826	Q2Q067	Q9H158	-1.4044
95827	Q2Q067	Q92560	-0.15554
95828	Q2Q067	O14498	-1.1764
95829	Q2Q067	Q92824	-1.0225
95830	Q2Q067	P25940	-0.98835
95831	Q2Q067	Q02505	-1.4342
95832	Q2Q067	Q86WR6	-0.10916
95833	Q2Q067	Q9Y2A9	-0.74475
95834	Q2Q067	P13686	-0.49453
95835	Q2Q067	Q9Y694	-1.2125
95836	Q2Q067	O60447	-0.23045

95837	Q2Q067	Q8WV22	-0.2239
95838	Q2Q067	Q4G0P3	-0.16131
95839	Q2Q067	Q6IAN0	-1.3386
95840	Q2Q067	Q9GZX3	-0.63329
95841	Q2Q067	P55285	-0.64102
95842	Q2Q067	Q6P9F7	-1.0345
95843	Q2Q067	Q86XR2	-0.51797
95844	Q2Q067	Q8NA69	-0.021117
95845	Q2Q067	Q06430	-1.0292
95846	Q2Q067	Q8IXX5	-1.0345
95847	Q2Q067	Q9NP58	-0.92455
95848	Q2Q067	Q9H208	-1.4096
95849	Q2Q067	P18405	-0.38749
95850	Q2Q067	Q9Y2W3	-0.82426
95851	Q2Q067	O75112	-0.26632
95852	Q2Q067	Q8N2R0	-0.20952
95853	Q2Q067	Q96H72	-0.66922
95854	Q2Q067	Q9NYQ6	-1.1033
95855	Q2Q067	P13236	-1.0326
95856	Q2Q067	Q5VUD6	-1.1118
95857	Q2Q067	P16519	-0.34152
95858	Q2Q067	P52907	-0.48576
95859	Q2Q067	O95633	-0.22504
95860	Q2Q067	Q9NP31	-0.80308
95861	Q2Q067	Q9Y2U9	-0.22446
95862	Q2Q067	Q8WYJ6	-0.22271
95863	Q2Q067	Q9Y3D7	-0.18052
95864	Q2Q067	Q99616	-1.158
95865	Q2Q067	Q5T5M9	-0.12669
95866	Q2Q067	Q3MJ40	-0.0049947
95867	Q2Q067	Q9UBN6	-1.0695
95868	Q2Q067	Q9BVW6	-1.0345
95869	Q2Q067	O43808	-0.25417
95870	Q2Q067	Q9NX00	-0.84904
95871	Q2Q067	Q13510	-0.42449
95872	Q2Q067	P36269	-1.0131
95873	Q2Q067	Q9NWB1	-0.25568
95874	Q2Q067	Q8NH92	-1.4096
95875	Q2Q067	Q9NZG7	-1.1536
95876	Q2Q067	Q9Y5G5	-1.3679
95877	Q2Q067	Q9NVG8	-1.4231
95878	Q2Q067	O95235	-0.25552
95879	Q2Q067	Q13107	-0.29324
95880	Q2Q067	Q9P0L9	-0.57082
95881	Q2Q067	Q96BH1	-0.21361
95882	Q2Q067	Q13242	-0.22647
95883	Q2Q067	Q9H2M9	-0.74499
95884	Q2Q067	Q9NZ20	-0.69906
95885	Q2Q067	Q68DD2	-0.38516
95886	Q2Q067	Q86XN8	-0.22732
95887	Q2Q067	Q6ZMM2	-1.081
95888	Q2Q067	Q6UWL2	-1.0902
95889	Q2Q067	Q2M3T9	-0.87261
95890	Q2Q067	Q8N4L1	-1.0345
95891	Q2Q067	O15066	-0.31136
95892	Q2Q067	Q969E2	-0.82676
95893	Q2Q067	Q6PID8	-0.22722
95894	Q2Q067	Q9NRH2	-1.1691
95895	Q2Q067	C9JJ37	-0.22279
95896	Q2Q067	Q6SPF0	-0.80201
95897	Q2Q067	Q9NYF5	-1.0924
95898	Q2Q067	Q969N4	-1.4576
95899	Q2Q067	Q7LFL8	-0.31532
95900	Q2Q067	Q92805	-0.21917
95901	Q2Q067	Q1X8D7	-0.22709
95902	Q2Q067	Q9BY71	-0.35359
95903	Q2Q067	A6NHN0	-1.0482
95904	Q2Q067	Q71RC9	-1.0345
95905	Q2Q067	Q969T4	-0.36769
95906	Q2Q067	P15151	-0.38835
95907	Q2Q067	Q96Q15	-0.58681
95908	Q2Q067	Q8IZQ8	-0.5476
95909	Q2Q067	Q9NSA2	-1.0908
95910	Q2Q067	Q9NXC5	-0.22694
95911	Q2Q067	P16150	-1.0011
95912	Q2Q067	P25116	-0.4563

95913	Q2Q067	Q9Y5F3	-1.3679
95914	Q2Q067	Q9Y2T3	-0.37204
95915	Q2Q067	Q9H867	-0.25917
95916	Q2Q067	O60381	-0.19631
95917	Q2Q067	Q13607	-1.4096
95918	Q2Q067	Q16527	-0.44435
95919	Q2Q067	Q99729	-0.2388
95920	Q2Q067	P27338	-0.64902
95921	Q2Q067	O43435	-0.36741
95922	Q2Q067	P0CE72	-0.50694
95923	Q2Q067	Q9H6B4	-0.9856
95924	Q2Q067	Q9Y577	-0.22935
95925	Q2Q067	Q8NGS6	-1.4096
95926	Q2Q067	Q8NCQ7	-0.47072
95927	Q2Q067	Q9P2F5	-0.26673
95928	Q2Q067	O75317	-0.3456
95929	Q2Q067	O15264	-0.22741
95930	Q2Q067	P61626	-1.047
95931	Q2Q067	P30447	-0.99938
95932	Q2Q067	Q9ULZ3	-0.17258
95933	Q2Q067	Q9NVR7	-0.1191
95934	Q2Q067	P59534	-1.3729
95935	Q2Q067	P19438	-0.37441
95936	Q2Q067	Q6KC79	-0.17539
95937	Q2Q067	Q9NP90	-0.57097
95938	Q2Q067	Q96KQ7	-0.22741
95939	Q2Q067	Q92614	-0.13275
95940	Q2Q067	Q6ZRF7	-0.085533
95941	Q2Q067	P59894	-0.59947
95942	Q2Q067	P06888	-1.1115
95943	Q2Q067	Q6P093	-1.3951
95944	Q2Q067	Q5T2R2	-0.42813
95945	Q2Q067	Q17RQ9	-1.0345
95946	Q2Q067	Q9UBM1	-0.48663
95947	Q2Q067	P26378	-0.90414
95948	Q2Q067	O75951	-0.93539
95949	Q2Q067	Q5JWF8	-0.089991
95950	Q2Q067	Q6ZTA4	-0.54342
95951	Q2Q067	A0MZ66	-0.58902
95952	Q2Q067	O15440	-1.0562
95953	Q2Q067	Q15746	-0.62214
95954	Q2Q067	P31275	-0.19852
95955	Q2Q067	Q96T53	-0.98364
95956	Q2Q067	Q8N370	-1.2108
95957	Q2Q067	Q96LD8	-0.85877
95958	Q2Q067	Q6MZQ0	-0.21265
95959	Q2Q067	O43150	-0.51725
95960	Q2Q067	A8MWL6	-1.0345
95961	Q2Q067	P15538	-0.45122
95962	Q2Q067	Q9NPB8	-0.077462
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95964	Q2Q067	P11217	-0.36297
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95966	Q2Q067	Q71RG4	-1.0345
95967	Q2Q067	P39905	-0.40855
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95969	Q2Q067	Q15523	-0.55723
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95971	Q2Q067	O15516	-0.22759
95972	Q2Q067	Q09160	-1.0994
95973	Q2Q067	A6NHL2	-0.65192
95974	Q2Q067	P01817	-1.1115
95975	Q2Q067	Q7Z6W7	-0.4622
95976	Q2Q067	Q9Y5E4	-1.3348
95977	Q2Q067	P05546	-0.77144
95978	Q2Q067	Q6ZU80	-0.18631
95979	Q2Q067	Q96PN8	-1.6446
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95981	Q2Q067	O94889	-0.20909
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95985	Q2Q067	Q9UBG7	-0.16471
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95987	Q2Q067	O43772	-0.59265
95988	Q2Q067	Q99983	-0.99387

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95990	Q2Q067	Q9Y2A7	-0.4213
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95992	Q2Q067	P07288	-1.0381
95993	Q2Q067	Q15751	-0.35595
95994	Q2Q067	Q49AM3	-0.2262
95995	Q2Q067	O95070	-0.37918
95996	Q2Q067	Q6ZRR9	-0.59947
95997	Q2Q067	P28300	-0.39587
95998	Q2Q067	P17787	-0.52026
95999	Q2Q067	Q5VW22	-1.1564
96000	Q2Q067	A6NE01	-0.2003
96001	Q2Q067	Q6UXK5	-1.0345
96002	Q2Q067	Q03013	-0.41074
96003	Q2Q067	Q8WWU7	-1.2102
96004	Q2Q067	Q96L08	-1.0345
96005	Q2Q067	Q5H9K5	-0.29189
96006	Q2Q067	P0CW19	-0.30511
96007	Q2Q067	Q8IY47	-0.21285
96008	Q2Q067	Q5SWA1	-0.32317
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96010	Q2Q067	Q15113	-1.356
96011	Q2Q067	Q86UW7	-0.41043
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96013	Q2Q067	Q9Y3B1	-0.21265
96014	Q2Q067	Q9H9J4	-0.94675
96015	Q2Q067	O95467	-0.86589
96016	Q2Q067	P17035	-0.085533
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96029	Q2Q067	Q9UP52	-1.2249
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96033	Q2Q067	Q30134	-0.79235
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96051	Q2Q067	O95185	-1.1891
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96058	Q2Q067	P78382	-0.633
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96061	Q2Q067	P52739	-0.40655
96062	Q2Q067	Q8IVJ8	-1.0345
96063	Q2Q067	P62820	-0.83485
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96065	Q2Q067	P51993	-0.846
96066	Q2Q067	Q86UN6	-0.32493
96067	Q2Q067	Q9UKT8	-0.22932
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96069	Q2Q067	Q8NBJ5	-0.42175
96070	Q2Q067	Q9BTX3	-1.0345
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96176	Q2Q067	O60637	-1.0345
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96197	Q2Q067	Q12979	-0.8329
96198	Q2Q067	Q9NUJ3	-0.34281
96199	Q2Q067	P30533	-0.84429
96200	Q2Q067	P02775	-0.68565
96201	Q2Q067	Q13133	-0.24205
96202	Q2Q067	P32019	-0.50561
96203	Q2Q067	Q5VXU1	-1.1634
96204	Q2Q067	Q9Y6M9	-0.19928
96205	Q2Q067	Q9NU63	-0.31935
96206	Q2Q067	Q9Y2I8	-0.22823
96207	Q2Q067	Q8IV63	-0.79432
96208	Q2Q067	C9JQL5	-1.0325
96209	Q2Q067	Q9H8W4	-0.22654
96210	Q2Q067	O60609	-0.49672
96211	Q2Q067	Q9UP79	-1.4193
96212	Q2Q067	Q9BTK2	-0.0023341
96213	Q2Q067	P16473	-0.87074
96214	Q2Q067	Q9GZT3	-0.22591
96215	Q2Q067	Q8NG78	-1.4096
96216	Q2Q067	P10915	-1.2387

96217	Q2Q067	Q9NSE4	-0.24051
96218	Q2Q067	Q9NVQ4	-0.34687
96219	Q2Q067	Q9BSE2	-1.0345
96220	Q2Q067	P46094	-1.4546
96221	Q2Q067	P09210	-0.22634
96222	Q2Q067	P01912	-0.75992
96223	Q2Q067	Q16820	-1.6462
96224	Q2Q067	O00631	-0.88838
96225	Q2Q067	O95182	-0.16268
96226	Q2Q067	O75838	-0.45603
96227	Q2Q067	Q6ZUK4	-1.0345
96228	Q2Q067	Q86YN1	-0.91191
96229	Q2Q067	P68366	-0.61626
96230	Q2Q067	O95388	-1.0427
96231	Q2Q067	Q8WWN8	-1.0036
96232	Q2Q067	Q8NCU8	-1.0345
96233	Q2Q067	P04035	-0.64636
96234	Q2Q067	P37268	-0.96078
96235	Q2Q067	Q8IVU1	-1.1519
96236	Q2Q067	O60882	-0.99422
96237	Q2Q067	Q8WWF3	-1.0345
96238	Q2Q067	Q8N1F8	-0.2942
96239	Q2Q067	Q9H9B1	-0.22741
96240	Q2Q067	O75711	-0.95299
96241	Q2Q067	P01761	-1.1115
96242	Q2Q067	O14944	-0.54323
96243	Q2Q067	Q86VY9	-1.0345
96244	Q2Q067	A2A2Z9	-0.22737
96245	Q2Q067	Q16566	-0.41008
96246	Q2Q067	P35575	-0.43705
96247	Q2Q067	A8MTW9	-0.98666
96248	Q2Q067	Q6S5L8	-0.53916
96249	Q2Q067	Q08648	-0.987
96250	Q2Q067	P19022	-0.62475
96251	Q2Q067	P28476	-1.1003
96252	Q2Q067	Q9BT76	-1.1696
96253	Q2Q067	Q02446	-0.17172
96254	Q2Q067	Q9Y6D5	-0.22067
96255	Q2Q067	Q8NBF2	-0.22379
96256	Q2Q067	P02776	-0.7358
96257	Q2Q067	P02808	-0.40081
96258	Q2Q067	Q96BR1	-1.0413
96259	Q2Q067	Q96QE3	-0.72825
96260	Q2Q067	Q96T54	-1.2903
96261	Q2Q067	O43169	-0.85664
96262	Q2Q067	P43251	-0.70989
96263	Q2Q067	P01568	-0.86951
96264	Q2Q067	Q9ULK6	-1.1176
96265	Q2Q067	P51911	-0.35603
96266	Q2Q067	Q9BRR6	-0.94103
96267	Q2Q067	O00628	-0.22738
96268	Q2Q067	Q9H4L4	-0.35638
96269	Q2Q067	Q9BTE6	-0.44508
96270	Q2Q067	Q15669	-0.22697
96271	Q2Q067	Q7Z5H5	-1.2234
96272	Q2Q067	Q2QD12	-0.41459
96273	Q2Q067	P30825	-1.2796
96274	Q2Q067	P28325	-0.41781
96275	Q2Q067	P42261	-0.63603
96276	Q2Q067	Q99679	-1.6361
96277	Q2Q067	Q4V348	-0.085533
96278	Q2Q067	Q8WWG1	-1.5893
96279	Q2Q067	Q14028	-1.3836
96280	Q2Q067	Q92620	-0.22603
96281	Q2Q067	Q5JPI3	-0.35564
96282	Q2Q067	Q6ZN16	-1.2636
96283	Q2Q067	Q9UBS5	-0.73126
96284	Q2Q067	Q9BY31	-0.085533
96285	Q2Q067	P01906	-0.8793
96286	Q2Q067	Q14644	-0.71176
96287	Q2Q067	A6NNP5	-0.076808
96288	Q2Q067	Q9H5Z1	-0.84139
96289	Q2Q067	O60895	-0.23689
96290	Q2Q067	Q8NCW0	-0.99436
96291	Q2Q067	P30490	-1.1453
96292	Q2Q067	Q96R48	-1.4096



96293	Q2Q067	Q00G26	-0.36991
96294	Q2Q067	Q96BI1	-0.92315
96295	Q2Q067	Q03113	-0.6881
96296	Q2Q067	Q2M3M2	-1.272
96297	Q2Q067	O95727	-1.0768
96298	Q2Q067	P21439	-1.1894
96299	Q2Q067	O43687	-0.93987
96300	Q2Q067	Q92903	-0.92191
96301	Q2Q067	P20039	-0.85514
96302	Q2Q067	Q8NGD1	-1.4096
96303	Q2Q067	P68032	-0.41476
96304	Q2Q067	P17706	-0.23914
96305	Q2Q067	Q86YV5	-1.3039
96306	Q2Q067	Q14896	-0.65839
96307	Q2Q067	Q6P5Q4	-0.43823
96308	Q2Q067	A8MYX2	-0.31663
96309	Q2Q067	P21754	-0.39612
96310	Q2Q067	O60393	-0.21956
96311	Q2Q067	P56749	-0.85277
96312	Q2Q067	Q5T197	-1.1176
96313	Q2Q067	O94880	-0.48451
96314	Q2Q067	Q9UJU3	-0.085533
96315	Q2Q067	Q9NNX6	-1.1171
96316	Q2Q067	P33981	-0.98125
96317	Q2Q067	Q96L14	-0.43841
96318	Q2Q067	Q9UJ83	-1.0118
96319	Q2Q067	Q96PW8	-0.21966
96320	Q2Q067	Q9C0A6	-0.22543
96321	Q2Q067	Q9H2F3	-1.0101
96322	Q2Q067	Q9UBR4	-0.22757
96323	Q2Q067	P40225	-0.86314
96324	Q2Q067	Q96S90	-0.38126
96325	Q2Q067	Q5VY80	-0.69135
96326	Q2Q067	Q8N8R3	-0.82143
96327	Q2Q067	P78380	-1.6091
96328	Q2Q067	Q96R08	-1.4096
96329	Q2Q067	P14902	-0.26176
96330	Q2Q067	Q9C0K1	-1.152
96331	Q2Q067	Q8N813	-0.07958
96332	Q2Q067	Q8IX21	-0.032092
96333	Q2Q067	P14151	-0.73261
96334	Q2Q067	P17066	-0.66337
96335	Q2Q067	Q9UIR0	-1.0345
96336	Q2Q067	Q9Y548	-1.0094
96337	Q2Q067	P06126	-0.61249
96338	Q2Q067	Q96D71	-0.22012
96339	Q2Q067	Q9H251	-0.60644
96340	Q2Q067	D6RBM5	-0.29674
96341	Q2Q067	Q30KP8	-0.94775
96342	Q2Q067	Q99828	-0.22735
96343	Q2Q067	O60706	-1.2504
96344	Q2Q067	A6NCQ9	-1.1176
96345	Q2Q067	Q05925	-0.22302
96346	Q2Q067	Q9NQC7	-0.21289
96347	Q2Q067	Q5M8T2	-0.99061
96348	Q2Q067	Q14264	-0.13268
96349	Q2Q067	Q9GZK7	-1.4096
96350	Q2Q067	O95622	-0.85096
96351	Q2Q067	P01824	-1.1115
96352	Q2Q067	O75952	-0.26399
96353	Q2Q067	Q96PF2	-0.94092
96354	Q2Q067	Q9P121	-0.22845
96355	Q2Q067	Q8NHQ8	-0.57228
96356	Q2Q067	P42898	-0.34873
96357	Q2Q067	Q8NH16	-1.2565
96358	Q2Q067	P29376	-1.6913
96359	Q2Q067	Q86XT4	-0.64987
96360	Q2Q067	P15328	-1.1207
96361	Q2Q067	Q6P1S2	-1.0091
96362	Q2Q067	Q8TE04	-0.5359
96363	Q2Q067	Q99463	-1.4762
96364	Q2Q067	P06315	-1.1115
96365	Q2Q067	O95158	-0.81406
96366	Q2Q067	Q8N1G0	-0.20278
96367	Q2Q067	Q502X0	-0.13634
96368	Q2Q067	Q02742	-0.75325

96369	Q2Q067	Q8NC24	-1.2309
96370	Q2Q067	P31641	-1.1716
96371	Q2Q067	Q15238	-0.36319
96372	Q2Q067	P17707	-0.21566
96373	Q2Q067	Q9NYA1	-0.24475
96374	Q2Q067	Q7Z478	-0.44319
96375	Q2Q067	A0A183	-0.37794
96376	Q2Q067	P49773	-0.26118
96377	Q2Q067	A6NDG6	-0.46465
96378	Q2Q067	O75908	-0.89879
96379	Q2Q067	Q6ZW34	-1.0345
96380	Q2Q067	Q96EP9	-1.1513
96381	Q2Q067	Q8TC17	-0.22741
96382	Q2Q067	Q15493	-0.11419
96383	Q2Q067	Q9NQW7	-0.54397
96384	Q2Q067	Q4KMX7	-0.25279
96385	Q2Q067	Q8NBH2	-0.5238
96386	Q2Q067	Q16825	-0.6304
96387	Q2Q067	Q14558	-0.33686
96388	Q2Q067	O95239	-0.25301
96389	Q2Q067	Q5VZY2	-1.006
96390	Q2Q067	A6NCX1	-0.12087
96391	Q2Q067	Q9UMQ6	-1.1084
96392	Q2Q067	P09630	-0.22618
96393	Q2Q067	Q6P2P2	-0.2101
96394	Q2Q067	Q9Y5I3	-1.8625
96395	Q2Q067	Q96T51	-0.1755
96396	Q2Q067	Q9ULX7	-1.0731
96397	Q2Q067	Q9NT22	-0.89937
96398	Q2Q067	Q92804	-0.19777
96399	Q2Q067	Q8WXS8	-1.387
96400	Q2Q067	Q86Y30	-0.98666
96401	Q2Q067	Q13253	-0.32582
96402	Q2Q067	Q9H8L6	-0.55594
96403	Q2Q067	B7Z1M9	-0.097216
96404	Q2Q067	Q5T0B9	-0.096903
96405	Q2Q067	Q8NFJ6	-1.4813
96406	Q2Q067	P08887	-0.38271
96407	Q2Q067	Q53T59	-0.52507
96408	Q2Q067	P31321	-0.31437
96409	Q2Q067	Q6UWM5	-0.98666
96410	Q2Q067	Q13591	-1.177
96411	Q2Q067	Q9C040	-0.22741
96412	Q2Q067	O00548	-0.67583
96413	Q2Q067	Q96BM9	-0.68979
96414	Q2Q067	O76094	-0.21662
96415	Q2Q067	Q9H7B7	-0.98666
96416	Q2Q067	Q496Y0	-0.2274
96417	Q2Q067	P11926	-0.1746
96418	Q2Q067	Q86TI4	-0.22759
96419	Q2Q067	Q9NV79	-0.17204
96420	Q2Q067	Q15434	-0.62494
96421	Q2Q067	Q15485	-1.2845
96422	Q2Q067	Q9BVG4	-0.24416
96423	Q2Q067	Q7Z624	-0.20488
96424	Q2Q067	O43155	-1.3047
96425	Q2Q067	Q6ZNB6	-0.34599
96426	Q2Q067	Q96AH8	-0.84968
96427	Q2Q067	Q9HDC5	-0.94892
96428	Q2Q067	Q8IVG5	-0.11459
96429	Q2Q067	Q96MT0	-0.34728
96430	Q2Q067	P06317	-1.101
96431	Q2Q067	Q969W1	-1.1486
96432	Q2Q067	Q9BYE4	-0.25317
96433	Q2Q067	P08237	-0.54912
96434	Q2Q067	P09683	-0.86911
96435	Q2Q067	P0C864	-0.2245
96436	Q2Q067	Q9H1K4	-0.85328
96437	Q2Q067	Q96MN2	-0.91075
96438	Q2Q067	Q6IC83	-0.26171
96439	Q2Q067	Q2VWA4	-0.087048
96440	Q2Q067	Q13422	-0.1755
96441	Q2Q067	Q5Y7A7	-0.79235
96442	Q2Q067	Q9BY49	-0.99312
96443	Q2Q067	O60658	-0.22704
96444	Q2Q067	Q9UPY3	-0.21698

96445	Q2Q067	P49761	-0.83202
96446	Q2Q067	P11168	-0.081444
96447	Q2Q067	Q9Y4D1	-0.34542
96448	Q2Q067	Q96R28	-1.4096
96449	Q2Q067	P0DJH9	-0.11024
96450	Q2Q067	Q96C19	-0.60787
96451	Q2Q067	Q13085	-0.25691
96452	Q2Q067	Q08AF8	-0.28132
96453	Q2Q067	Q5TYX0	-0.19475
96454	Q2Q067	Q9NQZ3	-0.22781
96455	Q2Q067	Q9UKX3	-0.59485
96456	Q2Q067	Q2M296	-0.92931
96457	Q2Q067	P14222	-0.67678
96458	Q2Q067	Q9BXU8	-0.36032
96459	Q2Q067	Q9NRH3	-0.21748
96460	Q2Q067	Q7Z3S7	-1.1647
96461	Q2Q067	O43423	-0.14937
96462	Q2Q067	Q9Y2Q3	-0.68447
96463	Q2Q067	Q8NEY4	-0.37457
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96471	Q2Q067	Q9HBL8	-0.11146
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96473	Q2Q067	Q86UT5	-0.22726
96474	Q2Q067	Q6ZRR7	-0.22737
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96478	Q2Q067	P22891	-1.1122
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96482	Q2Q067	Q8TF66	-1.0345
96483	Q2Q067	Q6P2D8	-0.22741
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96493	Q2Q067	Q8WVF5	-0.15939
96494	Q2Q067	O00444	-0.22741
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96499	Q2Q067	Q8IXS8	-0.63454
96500	Q2Q067	D6RBQ6	-0.76972
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96502	Q2Q067	O75390	-0.17522
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96505	Q2Q067	Q15269	-0.22561
96506	Q2Q067	P20333	-0.84209
96507	Q2Q067	Q8WVT3	-0.3221
96508	Q2Q067	A4FU01	-0.5636
96509	Q2Q067	O15060	-0.085533
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96511	Q2Q067	Q9ULZ9	-1.666
96512	Q2Q067	P04629	-0.65415
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96515	Q2Q067	Q7Z2F6	-0.27686
96516	Q2Q067	Q9NRF2	-0.22741
96517	Q2Q067	Q9P275	-0.33024
96518	Q2Q067	O95994	-0.1797
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96520	Q2Q067	Q02094	-0.94308

96521	Q2Q067	Q9UKM7	-0.95305
96522	Q2Q067	Q96A83	-1.1541
96523	Q2Q067	Q5SNT6	-0.6371
96524	Q2Q067	Q9Y6I0	-0.74403
96525	Q2Q067	Q9BTZ2	-0.6758
96526	Q2Q067	Q9BY50	-0.89161
96527	Q2Q067	Q6ZMI0	-0.31925
96528	Q2Q067	P07360	-1.0047
96529	Q2Q067	O15047	-0.2686
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96535	Q2Q067	Q05655	-0.22323
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96539	Q2Q067	Q13177	-0.27378
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96546	Q2Q067	P0C7Q2	-0.26488
96547	Q2Q067	P30043	-0.10794
96548	Q2Q067	Q5XKR4	-0.1132
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96550	Q2Q067	O95677	-0.11519
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96552	Q2Q067	O95866	-1.056
96553	Q2Q067	Q5R372	-1.045
96554	Q2Q067	Q9Y2B2	-0.92922
96555	Q2Q067	Q8NGI8	-1.4096
96556	Q2Q067	P18283	-0.38622
96557	Q2Q067	Q5TA79	-0.37794
96558	Q2Q067	Q6ZTB9	-0.74229
96559	Q2Q067	Q8WUH1	-0.32494
96560	Q2Q067	Q9HAU0	-0.22741
96561	Q2Q067	Q6XPR3	-1.0508
96562	Q2Q067	Q00526	-0.69415
96563	Q2Q067	Q02108	-0.65474
96564	Q2Q067	Q92954	-0.96597
96565	Q2Q067	Q9GZP1	-1.0494
96566	Q2Q067	Q16795	-0.16729
96567	Q2Q067	Q96I82	-1.224
96568	Q2Q067	P35212	-1.1048
96569	Q2Q067	Q53SF7	-0.44287
96570	Q2Q067	Q96S82	-0.2238
96571	Q2Q067	Q9P1Z9	-1.0345
96572	Q2Q067	A6PVS8	-0.22666
96573	Q2Q067	P0C7X0	-0.43957
96574	Q2Q067	Q8TD90	-0.13392
96575	Q2Q067	Q5VWW1	-1.0229
96576	Q2Q067	Q9C0K0	-0.22717
96577	Q2Q067	P52565	-0.081839
96578	Q2Q067	Q92989	-0.21413
96579	Q2Q067	P61647	-0.72248
96580	Q2Q067	P12236	-0.27726
96581	Q2Q067	O95847	-0.86369
96582	Q2Q067	Q8WXS4	-1.1328
96583	Q2Q067	Q8N7P1	-1.1697
96584	Q2Q067	Q8WVE6	-1.0345
96585	Q2Q067	Q8NGU2	-1.4096
96586	Q2Q067	Q14118	-0.27831
96587	Q2Q067	Q6EIG7	-0.9242
96588	Q2Q067	A6NN92	-1.0354
96589	Q2Q067	P32314	-0.35721
96590	Q2Q067	Q7Z2R9	-0.98666
96591	Q2Q067	Q92832	-0.22745
96592	Q2Q067	Q7Z7E8	-0.3149
96593	Q2Q067	P05165	-0.69951
96594	Q2Q067	P21246	-0.80124
96595	Q2Q067	Q7L0J3	-0.6611
96596	Q2Q067	Q8IWL2	-1.1684

96597	Q2Q067	A5X5Y0	-1.1556
96598	Q2Q067	Q5VSP4	-0.98666
96599	Q2Q067	P35557	-0.19168
96600	Q2Q067	Q9UNP4	-0.77779
96601	Q2Q067	Q6IA69	-0.506
96602	Q2Q067	P78324	-1.357
96603	Q2Q067	Q92576	-0.2536
96604	Q2Q067	Q96CN7	-0.57043
96605	Q2Q067	Q9BV79	-0.9671
96606	Q2Q067	O75052	-0.22425
96607	Q2Q067	Q9H9R9	-0.20901
96608	Q2Q067	Q8WXX0	-0.78111
96609	Q2Q067	P22059	-0.63548
96610	Q2Q067	P78411	-0.22909
96611	Q2Q067	Q75V66	-1.1148
96612	Q2Q067	P57082	-0.27326
96613	Q2Q067	Q9H765	-0.22741
96614	Q2Q067	Q6IBS0	-0.48894
96615	Q2Q067	P12694	-0.12887
96616	Q2Q067	Q8NGQ1	-1.4096
96617	Q2Q067	Q15077	-1.3392
96618	Q2Q067	P06313	-1.1115
96619	Q2Q067	Q8NI28	-1.0345
96620	Q2Q067	Q5VTT5	-0.3703
96621	Q2Q067	Q58EX2	-1.227
96622	Q2Q067	P12644	-0.22741
96623	Q2Q067	Q9ULD4	-0.22373
96624	Q2Q067	Q7Z5R6	-0.60558
96625	Q2Q067	Q8N954	-0.41613
96626	Q2Q067	Q8N6Q8	-0.38719
96627	Q2Q067	Q8NBW4	-1.1869
96628	Q2Q067	Q9UHD8	-0.22562
96629	Q2Q067	Q14534	-1.167
96630	Q2Q067	Q96M78	-0.15733
96631	Q2Q067	P36542	-0.17996
96632	Q2Q067	Q96Q07	-0.5919
96633	Q2Q067	Q6QHK4	-0.23475
96634	Q2Q067	O15552	-1.8735
96635	Q2Q067	Q96PH6	-0.92087
96636	Q2Q067	Q8N0X4	-0.47352
96637	Q2Q067	Q9UIW2	-0.8572
96638	Q2Q067	Q8NFW5	-0.19182
96639	Q2Q067	A6NMZ2	-0.66328
96640	Q2Q067	Q9UMR2	-0.1056
96641	Q2Q067	Q5VT66	-0.45004
96642	Q2Q067	Q5JXX5	-1.0026
96643	Q2Q067	O60259	-0.63184
96644	Q2Q067	Q8NFX0	-0.64205
96645	Q2Q067	O60503	-1.1731
96646	Q2Q067	P61109	-0.98666
96647	Q2Q067	O75915	-0.82987
96648	Q2Q067	Q5T5P2	-0.34899
96649	Q2Q067	Q8NGY2	-1.4096
96650	Q2Q067	Q86SJ6	-1.4859
96651	Q2Q067	Q96N46	-0.43468
96652	Q2Q067	Q6XXX2	-0.08461
96653	Q2Q067	O15457	-0.45869
96654	Q2Q067	Q9UGP5	-0.30228
96655	Q2Q067	P39877	-0.71802
96656	Q2Q067	Q8NCN4	-0.20394
96657	Q2Q067	P80421	-0.98652
96658	Q2Q067	Q5T751	-0.37794
96659	Q2Q067	O75356	-0.28897
96660	Q2Q067	O60749	-0.22208
96661	Q2Q067	Q6SA08	-0.96618
96662	Q2Q067	Q6N021	-0.57437
96663	Q2Q067	Q6NSX1	-1.1022
96664	Q2Q067	Q9GZP9	-0.25761
96665	Q2Q067	Q8NE63	-1.1884
96666	Q2Q067	Q8N4Z0	-1.348
96667	Q2Q067	Q8NHS0	-0.4622
96668	Q2Q067	O95749	-0.17052
96669	Q2Q067	A6NI03	-0.73178
96670	Q2Q067	P23141	-0.36746
96671	Q2Q067	O94813	-0.30024
96672	Q2Q067	O14492	-0.57234

96673	Q2Q067	Q96DN5	-0.84906
96674	Q2Q067	O43613	-1.511
96675	Q2Q067	Q9BXU9	-0.80816
96676	Q2Q067	P29762	-0.82072
96677	Q2Q067	Q86T13	-1.0212
96678	Q2Q067	Q14609	-1.0351
96679	Q2Q067	Q9BT88	-0.64639
96680	Q2Q067	Q8N2U0	-1.0345
96681	Q2Q067	Q9NRY7	-1.1588
96682	Q2Q067	Q5VVY1	-0.38719
96683	Q2Q067	Q12805	-0.29656
96684	Q2Q067	Q86T90	-0.21643
96685	Q2Q067	Q08380	-1.4645
96686	Q2Q067	P27707	-0.46159
96687	Q2Q067	O15466	-0.69425
96688	Q2Q067	Q8WXX3	-0.2274
96689	Q2Q067	Q9NP91	-1.2344
96690	Q2Q067	Q8WZ26	-0.15593
96691	Q2Q067	Q9Y239	-0.2274
96692	Q2Q067	Q03154	-0.33443
96693	Q2Q067	Q14494	-0.96599
96694	Q2Q067	Q13241	-1.1939
96695	Q2Q067	Q6PJG9	-1.0345
96696	Q2Q067	O60488	-0.81275
96697	Q2Q067	Q9UM22	-0.96065
96698	Q2Q067	Q96M93	-0.87867
96699	Q2Q067	Q7RTS6	-1.0345
96700	Q2Q067	Q9ULV8	-0.52894
96701	Q2Q067	P35250	-0.18815
96702	Q2Q067	Q92544	-1.0345
96703	Q2Q067	Q9H4G0	-0.24672
96704	Q2Q067	P13637	-0.74297
96705	Q2Q067	Q5FWF4	-0.29666
96706	Q2Q067	P55196	-0.2271
96707	Q2Q067	Q8NEX6	-0.98666
96708	Q2Q067	Q68BL8	-1.0387
96709	Q2Q067	P57054	-0.95841
96710	Q2Q067	A1L157	-1.0345
96711	Q2Q067	Q6ZVT0	-0.20803
96712	Q2Q067	Q567V2	-0.84904
96713	Q2Q067	P23327	-0.50675
96714	Q2Q067	P20591	-0.2322
96715	Q2Q067	P46059	-1.04
96716	Q2Q067	Q6ZN11	-0.085533
96717	Q2Q067	Q96RC9	-1.4096
96718	Q2Q067	O60669	-1.19
96719	Q2Q067	P42892	-0.73928
96720	Q2Q067	Q9BY10	-1.1016
96721	Q2Q067	Q9Y342	-1.0967
96722	Q2Q067	Q9H374	-0.20629
96723	Q2Q067	Q7L4P6	-0.28132
96724	Q2Q067	Q9BRP9	-0.10746
96725	Q2Q067	Q9H790	-0.3385
96726	Q2Q067	Q9Y4R7	-0.46845
96727	Q2Q067	Q8N300	-0.3577
96728	Q2Q067	A6NC51	-1.0345
96729	Q2Q067	Q92506	-0.29961
96730	Q2Q067	Q16740	-0.45182
96731	Q2Q067	Q8WUZ0	-0.35564
96732	Q2Q067	A1L390	-0.78041
96733	Q2Q067	Q9P2K6	-0.22357
96734	Q2Q067	Q9UBM4	-1.0514
96735	Q2Q067	Q9H0C3	-0.84155
96736	Q2Q067	P43628	-0.72077
96737	Q2Q067	Q765P7	-0.75125
96738	Q2Q067	Q96NZ9	-0.98666
96739	Q2Q067	Q9H0W5	-0.56101
96740	Q2Q067	Q8N8A6	-0.52376
96741	Q2Q067	Q12794	-0.41305
96742	Q2Q067	P02686	-0.8175
96743	Q2Q067	O60258	-1.0204
96744	Q2Q067	Q9UMX9	-1.1443
96745	Q2Q067	Q9UBK2	-0.6164
96746	Q2Q067	O43566	-0.22796
96747	Q2Q067	P37088	-0.66867
96748	Q2Q067	Q9UKY3	-0.90333

96749	Q2Q067	Q07912	-0.59809
96750	Q2Q067	Q9UEF7	-1.1172
96751	Q2Q067	Q8TCF1	-0.48451
96752	Q2Q067	Q9BR01	-0.36218
96753	Q2Q067	P53609	-0.48514
96754	Q2Q067	Q5TZ20	-1.4096
96755	Q2Q067	Q9UK23	-0.61405
96756	Q2Q067	Q9Y4U1	-0.21365
96757	Q2Q067	Q6PL45	-1.0345
96758	Q2Q067	O15146	-1.0122
96759	Q2Q067	Q9Y5X1	-0.31382
96760	Q2Q067	P11226	-0.62086
96761	Q2Q067	A6NI73	-1.5328
96762	Q2Q067	P0C6A0	-0.2274
96763	Q2Q067	Q8N100	-0.22868
96764	Q2Q067	Q9NR96	-0.58869
96765	Q2Q067	Q9BTE1	-0.094137
96766	Q2Q067	P21757	-0.54672
96767	Q2Q067	Q8WWQ2	-1.0467
96768	Q2Q067	P30953	-1.4096
96769	Q2Q067	Q9ULC8	-0.92262
96770	Q2Q067	Q92604	-0.68656
96771	Q2Q067	Q5JXM2	-0.93456
96772	Q2Q067	Q9BQI0	-0.71966
96773	Q2Q067	Q96N76	-0.19817
96774	Q2Q067	P31213	-0.7823
96775	Q2Q067	Q9H9Y4	-0.84803
96776	Q2Q067	P01034	-0.33537
96777	Q2Q067	P54868	-0.29271
96778	Q2Q067	Q99941	-0.30197
96779	Q2Q067	Q9ULT6	-0.60286
96780	Q2Q067	P0CG13	-0.11893
96781	Q2Q067	Q5T7B8	-0.28694
96782	Q2Q067	Q9ULL1	-0.81263
96783	Q2Q067	Q96R69	-1.4096
96784	Q2Q067	A6NNL5	-0.98666
96785	Q2Q067	P50553	-0.57493
96786	Q2Q067	Q9Y6I9	-0.98666
96787	Q2Q067	Q8N1M1	-0.98255
96788	Q2Q067	P49023	-0.21658
96789	Q2Q067	Q9HC96	-0.70807
96790	Q2Q067	Q8N682	-1.1329
96791	Q2Q067	O43196	-0.67398
96792	Q2Q067	Q9P2E8	-0.9778
96793	Q2Q067	Q9NQL2	-0.63083
96794	Q2Q067	Q14863	-0.2274
96795	Q2Q067	P98088	-1.1188
96796	Q2Q067	Q5T6F0	-0.22657
96797	Q2Q067	O75071	-0.45603
96798	Q2Q067	Q9NYZ2	-1.0334
96799	Q2Q067	Q96Q80	-0.40497
96800	Q2Q067	Q03828	-0.22403
96801	Q2Q067	Q6ZW33	-0.65122
96802	Q2Q067	P0C869	-0.55027
96803	Q2Q067	Q16644	-0.22876
96804	Q2Q067	Q7Z5P4	-1.3263
96805	Q2Q067	Q6BDI9	-0.61186
96806	Q2Q067	Q8NGN3	-1.4096
96807	Q2Q067	Q76G19	-0.22723
96808	Q2Q067	P0CG22	-1.019
96809	Q2Q067	P11177	-0.15505
96810	Q2Q067	Q5QFB9	-1.1118
96811	Q2Q067	A6NHA9	-1.4096
96812	Q2Q067	Q14147	-1.1453
96813	Q2Q067	Q86TE4	-0.98666
96814	Q2Q067	Q5T7P3	-0.37794
96815	Q2Q067	Q8NG41	-0.35838
96816	Q2Q067	Q9H3Z7	-0.36393
96817	Q2Q067	P37108	-0.43856
96818	Q2Q067	Q9P2X7	-0.42142
96819	Q2Q067	Q9H0A3	-1.0345
96820	Q2Q067	Q5T1R4	-0.22746
96821	Q2Q067	Q9Y2P5	-0.93386
96822	Q2Q067	Q9BZJ3	-1.5202
96823	Q2Q067	Q02509	-0.79307
96824	Q2Q067	Q02487	-1.1159

96825	Q2Q067	Q8N715	-0.051027
96826	Q2Q067	Q75T13	-0.59253
96827	Q2Q067	Q6EMB2	-0.1422
96828	Q2Q067	Q8IYS1	-0.44284
96829	Q2Q067	Q9C0K7	-0.22846
96830	Q2Q067	Q8N434	-1.0022
96831	Q2Q067	O96014	-0.43689
96832	Q2Q067	Q99944	-1.4074
96833	Q2Q067	P43243	-0.13479
96834	Q2Q067	Q9NWH7	-1.3599
96835	Q2Q067	Q8N1Y9	-1.0345
96836	Q2Q067	P28289	-0.22208
96837	Q2Q067	Q6UX98	-1.13
96838	Q2Q067	Q9Y2L9	-0.23773
96839	Q2Q067	A8MUU1	-0.63791
96840	Q2Q067	Q9BTT6	-0.33241
96841	Q2Q067	Q8NA61	-0.36472
96842	Q2Q067	Q12893	-0.48912
96843	Q2Q067	Q96M19	-1.0345
96844	Q2Q067	Q92834	-0.22587
96845	Q2Q067	P05981	-0.55088
96846	Q2Q067	Q9ULD9	-0.73178
96847	Q2Q067	Q9H2C8	-1.4096
96848	Q2Q067	P59103	-0.11295
96849	Q2Q067	P12724	-0.79011
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96851	Q2Q067	Q8ND24	-0.48451
96852	Q2Q067	Q95264	-1.2593
96853	Q2Q067	P50993	-0.63609
96854	Q2Q067	Q8NFI5	-1.4304
96855	Q2Q067	Q9BY19	-1.0345
96856	Q2Q067	Q5JST6	-0.45603
96857	Q2Q067	Q11201	-0.86332
96858	Q2Q067	P06732	-0.74999
96859	Q2Q067	Q13507	-0.56662
96860	Q2Q067	O43781	-1.1859
96861	Q2Q067	Q7Z7A4	-0.99944
96862	Q2Q067	O60500	-0.67755
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96864	Q2Q067	Q9Y231	-0.66837
96865	Q2Q067	P63302	-0.23412
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96868	Q2Q067	P26367	-0.21923
96869	Q2Q067	Q8N801	-0.089545
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96871	Q2Q067	P43657	-1.4336
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96880	Q2Q067	Q7Z6K5	-0.00030642
96881	Q2Q067	Q6UXE8	-0.77947
96882	Q2Q067	O15482	-0.88683
96883	Q2Q067	P61106	-0.40284
96884	Q2Q067	A6NIZ1	-1.1183
96885	Q2Q067	P01024	-0.75104
96886	Q2Q067	P04155	-0.28976
96887	Q2Q067	Q3SXY8	-0.76394
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96891	Q2Q067	Q4V328	-0.31231
96892	Q2Q067	O95502	-1.197
96893	Q2Q067	Q4KMQ1	-0.47393
96894	Q2Q067	O00462	-0.43834
96895	Q2Q067	P51798	-1.332
96896	Q2Q067	Q9BZX4	-0.33595
96897	Q2Q067	Q16763	-0.39325
96898	Q2Q067	O15460	-0.62653
96899	Q2Q067	A9Z1Z3	-1.0345
96900	Q2Q067	Q9UN76	-1.1316



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96902	Q2Q067	Q9BSC4	-0.22208
96903	Q2Q067	A2RUR9	-0.16413
96904	Q2Q067	Q8N122	-0.23003
96905	Q2Q067	Q08828	-0.76302
96906	Q2Q067	Q9UPZ9	-1.0009
96907	Q2Q067	Q9NS98	-1.309
96908	Q2Q067	P51686	-1.4606
96909	Q2Q067	Q96E66	-0.22741
96910	Q2Q067	O75333	-0.32708
96911	Q2Q067	Q96N87	-1.2543
96912	Q2Q067	A8MWX3	-0.58496
96913	Q2Q067	Q9HCN8	-0.43928
96914	Q2Q067	Q9Y6F7	-0.22558
96915	Q2Q067	Q8N816	-1.0345
96916	Q2Q067	Q16288	-1.1642
96917	Q2Q067	P58511	-0.77947
96918	Q2Q067	Q9H8X3	-0.036624
96919	Q2Q067	Q96HY7	-0.30314
96920	Q2Q067	O75976	-0.94249
96921	Q2Q067	P46092	-1.4985
96922	Q2Q067	Q7Z5A9	-0.95448
96923	Q2Q067	Q8N257	-0.82527
96924	Q2Q067	Q6EEV6	-0.0097199
96925	Q2Q067	Q7RTY1	-1.1464
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96927	Q2Q067	P48058	-1.1006
96928	Q2Q067	P22413	-0.31612
96929	Q2Q067	P11215	-0.3218
96930	Q2Q067	Q8N1E2	-0.91361
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96934	Q2Q067	P01709	-1.1115
96935	Q2Q067	Q96JA4	-1.0345
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96937	Q2Q067	Q92995	-0.23044
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96939	Q2Q067	P49842	-0.86559
96940	Q2Q067	Q14185	-0.31975
96941	Q2Q067	Q9BXA5	-1.3897
96942	Q2Q067	Q96LT4	-0.88779
96943	Q2Q067	Q9NZS2	-1.1955
96944	Q2Q067	P46199	-0.80569
96945	Q2Q067	Q86WN2	-0.95457
96946	Q2Q067	Q9NZL6	-0.5929
96947	Q2Q067	Q4G0G5	-0.98666
96948	Q2Q067	Q8NGS8	-1.4096
96949	Q2Q067	Q96GQ5	-1.0345
96950	Q2Q067	Q8N7S6	-1.0345
96951	Q2Q067	O14792	-0.51745
96952	Q2Q067	Q8WZ71	-1.0345
96953	Q2Q067	Q9Y2Z9	-0.58479
96954	Q2Q067	Q5NE16	-0.46968
96955	Q2Q067	Q8N103	-0.77337
96956	Q2Q067	Q9UBM7	-0.92332
96957	Q2Q067	P22894	-1.4458
96958	Q2Q067	Q9Y2Y6	-0.99456
96959	Q2Q067	Q9H773	-0.49246
96960	Q2Q067	P30495	-1.1453
96961	Q2Q067	P10415	-0.22732
96962	Q2Q067	Q9UN86	-0.97094
96963	Q2Q067	Q9Y574	-0.34278
96964	Q2Q067	Q7Z3Z3	-0.60814
96965	Q2Q067	Q96CP7	-1.0345
96966	Q2Q067	Q8N1N0	-1.0959
96967	Q2Q067	Q2TAA2	-0.43391
96968	Q2Q067	Q99574	-0.75155
96969	Q2Q067	Q15847	-0.24416
96970	Q2Q067	Q5FVE4	-1.0704
96971	Q2Q067	Q8IU57	-0.45427
96972	Q2Q067	P0C604	-1.4096
96973	Q2Q067	P51814	-0.067277
96974	Q2Q067	Q7Z4P5	-0.22741
96975	Q2Q067	Q8NGM8	-1.4096
96976	Q2Q067	P61278	-0.87304

96977	Q2Q067	Q7RTY9	-1.156
96978	Q2Q067	P05060	-0.29857
96979	Q2Q067	P14091	-0.6738
96980	Q2Q067	O14939	-0.22243
96981	Q2Q067	O14594	-0.84598
96982	Q2Q067	P51648	-1.0631
96983	Q2Q067	Q8WYB5	-0.33894
96984	Q2Q067	Q14697	-0.20006
96985	Q2Q067	Q96B86	-0.52535
96986	Q2Q067	Q9Y519	-1.0345
96987	Q2Q067	Q86SG6	-1.3436
96988	Q2Q067	Q15612	-1.2349
96989	Q2Q067	A5D8T8	-0.97472
96990	Q2Q067	O94953	-0.17225
96991	Q2Q067	Q9UBM8	-0.70356
96992	Q2Q067	P13798	-0.39389
96993	Q2Q067	P85299	-0.28292
96994	Q2Q067	O43908	-1.0102
96995	Q2Q067	P15586	-0.22218
96996	Q2Q067	P22692	-1.0455
96997	Q2Q067	P98066	-0.77857
96998	Q2Q067	Q9NZQ8	-1.1596
96999	Q2Q067	P17213	-1.0287
97000	Q2Q067	A6NFY4	-1.0345
97001	Q2Q067	P22732	-0.38631
97002	Q2Q067	Q96NT0	-0.5272
97003	Q2Q067	P06889	-1.1115
97004	Q2Q067	Q6IN97	-0.22602
97005	Q2Q067	P61165	-1.0345
97006	Q2Q067	Q08043	-0.32261
97007	Q2Q067	Q5VTT2	-1.0345
97008	Q2Q067	O95867	-0.65821
97009	Q2Q067	Q6P4H8	-1.0345
97010	Q2Q067	P15391	-1.2859
97011	Q2Q067	Q7Z2W7	-0.96981
97012	Q2Q067	P61565	-0.86704
97013	Q2Q067	O00160	-0.54101
97014	Q2Q067	Q96Q27	-0.76346
97015	Q2Q067	P51687	-0.21048
97016	Q2Q067	P81172	-0.67747
97017	Q2Q067	Q8TBE1	-0.976
97018	Q2Q067	O94929	-0.22245
97019	Q2Q067	Q8NGJ5	-1.4096
97020	Q2Q067	Q9Y644	-1.214
97021	Q2Q067	Q9BZG2	-0.9554
97022	Q2Q067	Q9UL26	-0.67448
97023	Q2Q067	P45381	-0.077058
97024	Q2Q067	Q495N2	-1.0345
97025	Q2Q067	P35236	-0.45695
97026	Q2Q067	Q6ZVH7	-0.22739
97027	Q2Q067	Q86X67	-0.2353
97028	Q2Q067	P01610	-1.1115
97029	Q2Q067	Q7Z5J4	-0.18981
97030	Q2Q067	P41159	-0.39533
97031	Q2Q067	Q7L622	-0.21253
97032	Q2Q067	Q96HU8	-1.5078
97033	Q2Q067	P0CB48	-0.2162
97034	Q2Q067	Q96K80	-0.19934
97035	Q2Q067	Q9HCQ5	-0.81418
97036	Q2Q067	P13804	-0.10171
97037	Q2Q067	P32942	-0.88492
97038	Q2Q067	Q03403	-0.3525
97039	Q2Q067	P31645	-0.34253
97040	Q2Q067	Q9Y2U2	-1.2903
97041	Q2Q067	P29622	-0.81862
97042	Q2Q067	Q9UIG0	-0.22487
97043	Q2Q067	Q96SK2	-1.0345
97044	Q2Q067	P08476	-0.25605
97045	Q2Q067	Q86TW2	-1.5113
97046	Q2Q067	Q8NGP3	-1.4096
97047	Q2Q067	Q8NB78	-0.45424
97048	Q2Q067	P05166	-0.47677
97049	Q2Q067	Q49A92	-0.56189
97050	Q2Q067	Q12797	-0.56439
97051	Q2Q067	P20264	-0.22741
97052	Q2Q067	Q9Y4X3	-1.0274

97053	Q2Q067	G3V0H7	-1.163
97054	Q2Q067	Q96LP4	-0.18668
97055	Q2Q067	P24592	-0.84343
97056	Q2Q067	P01711	-1.1115
97057	Q2Q067	O75752	-0.95489
97058	Q2Q067	Q92484	-0.39669
97059	Q2Q067	Q03518	-0.42549
97060	Q2Q067	Q7L5Y9	-0.099423
97061	Q2Q067	Q92608	-0.25764
97062	Q2Q067	P55061	-0.65585
97063	Q2Q067	O94911	-1.4785
97064	Q2Q067	Q9HCP0	-1.1546
97065	Q2Q067	Q8NGR4	-1.4096
97066	Q2Q067	Q9UJ42	-1.4967
97067	Q2Q067	Q92186	-0.46413
97068	Q2Q067	Q5SY80	-1.0345
97069	Q2Q067	Q13615	-0.19706
97070	Q2Q067	P33992	-0.21123
97071	Q2Q067	Q9UQ26	-0.22741
97072	Q2Q067	Q6DWJ6	-1.4967
97073	Q2Q067	Q9NRJ5	-0.34362
97074	Q2Q067	P27449	-0.30515
97075	Q2Q067	O95470	-0.37335
97076	Q2Q067	O75845	-0.92817
97077	Q2Q067	Q9Y5Y7	-0.93699
97078	Q2Q067	Q30KQ7	-0.94775
97079	Q2Q067	Q86XF0	-0.32121
97080	Q2Q067	O75541	-0.27773
97081	Q2Q067	Q96FN4	-0.22766
97082	Q2Q067	Q4ZHG4	-0.74717
97083	Q2Q067	Q9UHP7	-1.2669
97084	Q2Q067	Q96GR2	-0.79237
97085	Q2Q067	Q16378	-1.1198
97086	Q2Q067	Q6W4X9	-0.9826
97087	Q2Q067	P36508	-0.064679
97088	Q2Q067	Q86X52	-0.96924
97089	Q2Q067	Q5TGL8	-0.52507
97090	Q2Q067	Q7Z7H5	-1.0985
97091	Q2Q067	Q6ZW76	-0.22742
97092	Q2Q067	P25106	-1.2561
97093	Q2Q067	P19623	-0.2168
97094	Q2Q067	Q8NG81	-1.4096
97095	Q2Q067	Q9UBC7	-0.82517
97096	Q2Q067	Q8WXH0	-0.2285
97097	Q2Q067	Q8N3K9	-0.24504
97098	Q2Q067	Q9BXS9	-1.1671
97099	Q2Q067	P48048	-1.5254
97100	Q2Q067	Q8NGA8	-1.4096
97101	Q2Q067	Q96GW9	-0.21214
97102	Q2Q067	Q8NGW1	-1.4096
97103	Q2Q067	Q7Z2Y5	-1.2527
97104	Q2Q067	Q6UXZ0	-1.0345
97105	Q2Q067	Q9BTV4	-0.52558
97106	Q2Q067	Q04756	-1.3173
97107	Q2Q067	Q8IXT5	-0.27718
97108	Q2Q067	P42330	-0.22543
97109	Q2Q067	P30044	-0.30486
97110	Q2Q067	Q5T7M4	-0.98561
97111	Q2Q067	Q6IEU7	-1.4096
97112	Q2Q067	O75398	-0.21874
97113	Q2Q067	P06239	-0.24295
97114	Q2Q067	Q92542	-0.49
97115	Q2Q067	P22362	-1.1922
97116	Q2Q067	P31151	-0.21155
97117	Q2Q067	Q92777	-0.59543
97118	Q2Q067	Q9H8K7	-0.43841
97119	Q2Q067	O43505	-0.60421
97120	Q2Q067	Q99614	-0.22602
97121	Q2Q067	P15169	-1.3833
97122	Q2Q067	Q9UNW1	-0.46951
97123	Q2Q067	P47944	-0.34008
97124	Q2Q067	Q9H478	-0.24416
97125	Q2Q067	Q9H310	-0.95174
97126	Q2Q067	A6NNJ1	-0.43957
97127	Q2Q067	A4D0T7	-1.0345
97128	Q2Q067	Q01453	-0.5322

97129	Q2Q067	P63135	-0.20886
97130	Q2Q067	Q9UIQ6	-1.5225
97131	Q2Q067	Q9GZK6	-1.4096
97132	Q2Q067	P09871	-1.4774
97133	Q2Q067	Q8N976	-0.2228
97134	Q2Q067	Q92729	-0.81831
97135	Q2Q067	P49798	-0.47439
97136	Q2Q067	Q86Z14	-0.88101
97137	Q2Q067	Q969Q1	-0.60277
97138	Q2Q067	Q8NGV5	-1.4096
97139	Q2Q067	Q6ZQN5	-0.34661
97140	Q2Q067	Q4UJ75	-0.2274
97141	Q2Q067	Q96S37	-0.89899
97142	Q2Q067	Q9P0K7	-0.22745
97143	Q2Q067	P53597	-0.61615
97144	Q2Q067	Q7Z4J2	-0.84696
97145	Q2Q067	Q9BWW7	-0.20901
97146	Q2Q067	A6NM03	-1.4096
97147	Q2Q067	Q8N1S5	-1.0849
97148	Q2Q067	Q9UN75	-1.3679
97149	Q2Q067	Q9BZF2	-0.9261
97150	Q2Q067	Q8IZJ3	-1.0824
97151	Q2Q067	Q99536	-1.1422
97152	Q2Q067	Q4LDE5	-0.91924
97153	Q2Q067	Q02153	-0.82476
97154	Q2Q067	Q9BT67	-0.48259
97155	Q2Q067	Q5JTN6	-0.22883
97156	Q2Q067	P16885	-0.22741
97157	Q2Q067	O00187	-1.0904
97158	Q2Q067	Q8IZF7	-1.5126
97159	Q2Q067	P31025	-1.2155
97160	Q2Q067	P08253	-0.8121
97161	Q2Q067	Q96B18	-0.31106
97162	Q2Q067	Q8NGX2	-1.4096
97163	Q2Q067	Q96AQ2	-0.77947
97164	Q2Q067	Q9BQ24	-0.40129
97165	Q2Q067	Q2M3D2	-0.24416
97166	Q2Q067	P18440	-0.21593
97167	Q2Q067	P98161	-0.3005
97168	Q2Q067	Q6NTF9	-1.0807
97169	Q2Q067	Q9NRD9	-1.0393
97170	Q2Q067	Q7L7V1	-0.37868
97171	Q2Q067	Q8TF76	-0.74336
97172	Q2Q067	Q29980	-0.97138
97173	Q2Q067	Q00872	-0.75377
97174	Q2Q067	Q7RTY8	-1.591
97175	Q2Q067	Q58G82	-0.20867
97176	Q2Q067	Q14656	-0.86627
97177	Q2Q067	Q16540	-0.38045
97178	Q2Q067	P04066	-0.33027
97179	Q2Q067	Q86VH4	-1.0345
97180	Q2Q067	Q14406	-0.92397
97181	Q2Q067	P04430	-1.1115
97182	Q2Q067	Q92813	-0.95831
97183	Q2Q067	Q8IZV5	-0.73141
97184	Q2Q067	Q7Z3G6	-0.30084
97185	Q2Q067	P13942	-0.92575
97186	Q2Q067	Q9H4I8	-0.22236
97187	Q2Q067	P41439	-0.98993
97188	Q2Q067	P36575	-0.3387
97189	Q2Q067	Q17R26	-0.27686
97190	Q2Q067	Q14191	-0.22693
97191	Q2Q067	Q8WW34	-1.0345
97192	Q2Q067	Q52M75	-0.4772
97193	Q2Q067	Q6UWR7	-1.5209
97194	Q2Q067	Q95819	-0.57276
97195	Q2Q067	Q9Y5F6	-1.3679
97196	Q2Q067	Q7RTS3	-0.2285
97197	Q2Q067	Q96Q42	-0.4963
97198	Q2Q067	Q96FZ7	-0.095633
97199	Q2Q067	Q5T2T1	-0.2261
97200	Q2Q067	Q9H3D4	-0.22727
97201	Q2Q067	A4D1F6	-0.57228
97202	Q2Q067	Q13362	-0.095764
97203	Q2Q067	Q8N9W5	-0.13771
97204	Q2Q067	Q14527	-0.2235

97205	Q2Q067	O43278	-0.94276
97206	Q2Q067	P02652	-0.35901
97207	Q2Q067	Q9UBC5	-0.43
97208	Q2Q067	Q96JN2	-0.84904
97209	Q2Q067	Q5VTL7	-0.98666
97210	Q2Q067	Q8NGC5	-1.4096
97211	Q2Q067	O15498	-0.20623
97212	Q2Q067	Q8N283	-0.22739
97213	Q2Q067	Q9H0X6	-0.48451
97214	Q2Q067	P56557	-0.95872
97215	Q2Q067	O95925	-0.29208
97216	Q2Q067	Q86UW8	-1.1911
97217	Q2Q067	P15170	-0.40979
97218	Q2Q067	Q9UDW1	-0.26644
97219	Q2Q067	Q96P16	-0.37636
97220	Q2Q067	Q9Y5F8	-1.3679
97221	Q2Q067	Q8NEB7	-0.77385
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97224	Q2Q067	Q96HP8	-1.0345
97225	Q2Q067	Q8TDM5	-0.83914
97226	Q2Q067	Q06033	-0.85004
97227	Q2Q067	Q9HDD0	-0.32173
97228	Q2Q067	P30491	-1.1453
97229	Q2Q067	Q9Y6Q2	-0.20801
97230	Q2Q067	Q2KJY2	-0.84266
97231	Q2Q067	P50579	-0.5489
97232	Q2Q067	Q9BXJ5	-1.0246
97233	Q2Q067	O95428	-1.2096
97234	Q2Q067	Q96G79	-0.76055
97235	Q2Q067	Q92637	-1.2203
97236	Q2Q067	Q9BY08	-1.0583
97237	Q2Q067	Q14257	-0.37693
97238	Q2Q067	Q9BRJ9	-0.22746
97239	Q2Q067	P09238	-1.4119
97240	Q2Q067	P05452	-0.95283
97241	Q2Q067	Q86XT9	-1.1166
97242	Q2Q067	O43826	-0.43366
97243	Q2Q067	P05091	-0.30043
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97246	Q2Q067	Q86XJ1	-0.40813
97247	Q2Q067	O60568	-0.26901
97248	Q2Q067	Q6NVY1	-0.15888
97249	Q2Q067	O15503	-0.52425
97250	Q2Q067	Q9HAP6	-0.19994
97251	Q2Q067	Q5BIV9	-0.65821
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97253	Q2Q067	P26232	-0.19702
97254	Q2Q067	Q9Y5R8	-0.10591
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97256	Q2Q067	Q8NC69	-0.15456
97257	Q2Q067	P00451	-0.57585
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97259	Q2Q067	P51674	-0.99655
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97261	Q2Q067	P34903	-0.97803
97262	Q2Q067	P61086	-0.50734
97263	Q2Q067	P01569	-0.86951
97264	Q2Q067	Q9Y646	-0.98006
97265	Q2Q067	Q9NR45	-0.18556
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97267	Q2Q067	Q92545	-0.77947
97268	Q2Q067	Q6PIU1	-1.0619
97269	Q2Q067	P35611	-0.19505
97270	Q2Q067	Q8IUK8	-1.0345
97271	Q2Q067	P42338	-0.33007
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97282	Q2Q067	O43709	-0.32979
97283	Q2Q067	O43741	-0.54279
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97285	Q2Q067	P30508	-1.2066
97286	Q2Q067	Q9ULY5	-1.0289
97287	Q2Q067	Q53H64	-0.01546
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97297	Q2Q067	Q96LB9	-1.0023
97298	Q2Q067	Q9H6X2	-0.67483
97299	Q2Q067	Q9UF56	-0.22315
97300	Q2Q067	Q9NYD6	-0.21978
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97305	Q2Q067	O95562	-0.73764
97306	Q2Q067	Q8NGS4	-1.4096
97307	Q2Q067	P02746	-0.46493
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97313	Q2Q067	O43688	-0.84701
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97315	Q2Q067	Q9HCF6	-1.0902
97316	Q2Q067	Q15619	-1.4096
97317	Q2Q067	Q9UPM8	-0.18731
97318	Q2Q067	Q9P2D8	-1.0345
97319	Q2Q067	Q8TAA1	-0.87122
97320	Q2Q067	O60423	-1.1228
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97322	Q2Q067	P04839	-0.7234
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97330	Q2Q067	A6NJ69	-0.98666
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97340	Q2Q067	Q9Y4P9	-0.21443
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97354	Q2Q067	P10176	-0.63006
97355	Q2Q067	Q6P474	-0.59474
97356	Q2Q067	P12109	-0.99623

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97358	Q2Q067	A6NFC5	-0.63644
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97360	Q2Q067	P23582	-0.65795
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97362	Q2Q067	O43174	-0.74868
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97364	Q2Q067	Q58EX7	-0.81263
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97366	Q2Q067	Q96JP2	-0.21645
97367	Q2Q067	Q7Z403	-1.1118
97368	Q2Q067	Q8NE86	-0.36224
97369	Q2Q067	Q86WC6	-0.22741
97370	Q2Q067	Q9NPH3	-1.8418
97371	Q2Q067	P29459	-0.20847
97372	Q2Q067	Q12840	-0.25553
97373	Q2Q067	Q6ZNC4	-0.73178
97374	Q2Q067	Q8NE28	-1.1402
97375	Q2Q067	O00400	-0.99605
97376	Q2Q067	P62341	-0.43673
97377	Q2Q067	Q4KMZ8	-1.1634
97378	Q2Q067	Q7Z4M0	-0.30884
97379	Q2Q067	Q9H339	-1.4096
97380	Q2Q067	P17174	-0.20476
97381	Q2Q067	O95715	-1.0396
97382	Q2Q067	Q9H4E5	-1.1051
97383	Q2Q067	Q14156	-0.87127
97384	Q2Q067	Q16655	-0.37148
97385	Q2Q067	Q8NCT1	-0.57228
97386	Q2Q067	Q9NP59	-0.48497
97387	Q2Q067	Q9UJ71	-1.2573
97388	Q2Q067	P58294	-0.78312
97389	Q2Q067	Q9NVV5	-0.35359
97390	Q2Q067	P15907	-1.0395
97391	Q2Q067	Q01518	-0.30246
97392	Q2Q067	Q8NBI2	-1.2317
97393	Q2Q067	Q5SRI9	-0.70918
97394	Q2Q067	P57058	-1.5903
97395	Q2Q067	Q8NFI9	-0.20259
97396	Q2Q067	Q5VV43	-0.70567
97397	Q2Q067	Q9Y653	-1.7503
97398	Q2Q067	Q96JH8	-0.97665
97399	Q2Q067	P83111	-0.19952
97400	Q2Q067	P08172	-1.0552
97401	Q2Q067	P61964	-0.80916
97402	Q2Q067	Q8N309	-0.20057
97403	Q2Q067	Q9UBY5	-1.4652
97404	Q2Q067	Q9Y4F1	-0.57474
97405	Q2Q067	Q9NZK5	-0.76311
97406	Q2Q067	Q53H12	-0.9102
97407	Q2Q067	P08588	-0.76804
97408	Q2Q067	O43719	-0.21857
97409	Q2Q067	Q9NPI9	-1.2889
97410	Q2Q067	Q9H8W2	-0.060384
97411	Q2Q067	Q8IVV8	-1.1634
97412	Q2Q067	Q6UWF6	-0.98666
97413	Q2Q067	P36537	-1.0973
97414	Q2Q067	Q9H1A7	-0.056663
97415	Q2Q067	A6NGB9	-0.54375
97416	Q2Q067	Q15486	-0.28232
97417	Q2Q067	Q7L1T6	-0.51576
97418	Q2Q067	Q9UJ90	-1.0189
97419	Q2Q067	Q8NG06	-0.73178
97420	Q2Q067	P49327	-0.63049
97421	Q2Q067	Q6ZRK6	-0.1459
97422	Q2Q067	Q96PX9	-0.78041
97423	Q2Q067	Q9ULV0	-0.21196
97424	Q2Q067	Q5H9T9	-0.56545
97425	Q2Q067	Q8NHB7	-1.4096
97426	Q2Q067	P49736	-0.21088
97427	Q2Q067	Q14126	-1.0486
97428	Q2Q067	Q9BUJ0	-0.76683
97429	Q2Q067	P29558	-0.23889
97430	Q2Q067	P22830	-0.043402
97431	Q2Q067	B9EJG8	-1.0345
97432	Q2Q067	Q8NGF9	-1.4096

97433	Q2Q067	P39086	-0.71436
97434	Q2Q067	Q86TL2	-0.77947
97435	Q2Q067	Q13068	-0.068567
97436	Q2Q067	Q16518	-0.60297
97437	Q2Q067	P21453	-0.91986
97438	Q2Q067	O60229	-1.0956
97439	Q2Q067	Q9BTN0	-1.221
97440	Q2Q067	A1L3Z2	-0.050572
97441	Q2Q067	Q9BXU7	-0.25323
97442	Q2Q067	Q5T0N1	-0.15602
97443	Q2Q067	O15294	-0.22667
97444	Q2Q067	Q9NZU1	-1.3047
97445	Q2Q067	Q8TD47	-0.11985
97446	Q2Q067	Q9ULP0	-0.17339
97447	Q2Q067	Q9Y3Q0	-1.3534
97448	Q2Q067	P00747	-0.4562
97449	Q2Q067	Q99748	-0.65232
97450	Q2Q067	Q9UBX8	-0.66022
97451	Q2Q067	O75888	-0.60655
97452	Q2Q067	O43511	-1.0187
97453	Q2Q067	P32004	-0.71547
97454	Q2Q067	Q9BSE4	-0.92364
97455	Q2Q067	P17931	-0.24024
97456	Q2Q067	Q9BZP6	-0.56325
97457	Q2Q067	Q9Y345	-1.054
97458	Q2Q067	Q8NCS7	-0.92541
97459	Q2Q067	Q9UIK5	-1.4569
97460	Q2Q067	Q8NGL2	-1.4096
97461	Q2Q067	P27144	-0.68416
97462	Q2Q067	P13727	-0.98942
97463	Q2Q067	Q9UHP9	-0.11733
97464	Q2Q067	P12645	-0.84383
97465	Q2Q067	Q5SXH7	-0.51797
97466	Q2Q067	Q8N4N3	-0.40021
97467	Q2Q067	P61366	-1.2224
97468	Q2Q067	Q9P2G3	-0.35818
97469	Q2Q067	Q9Y2K3	-0.58698
97470	Q2Q067	Q13813	-0.22741
97471	Q2Q067	Q7Z7K2	-0.085533
97472	Q2Q067	Q8N1A6	-0.080066
97473	Q2Q067	Q8WWF5	-0.90812
97474	Q2Q067	A6NEA5	-0.039439
97475	Q2Q067	P50443	-1.2878
97476	Q2Q067	Q9Y5E1	-1.3348
97477	Q2Q067	Q8N7C7	-1.1176
97478	Q2Q067	O60292	-1.0359
97479	Q2Q067	Q9UEE9	-0.64073
97480	Q2Q067	A2VCL2	-0.19878
97481	Q2Q067	Q13395	-0.16263
97482	Q2Q067	Q8TER5	-0.65495
97483	Q2Q067	P02671	-0.53077
97484	Q2Q067	Q86YB7	-0.5835
97485	Q2Q067	Q9HCC8	-0.86482
97486	Q2Q067	Q0VAQ4	-0.4851
97487	Q2Q067	O14994	-1.0327
97488	Q2Q067	Q9Y4G8	-1.0859
97489	Q2Q067	Q86SH2	-0.45335
97490	Q2Q067	O76082	-0.50434
97491	Q2Q067	Q9NQL9	-0.24768
97492	Q2Q067	P26045	-0.22752
97493	Q2Q067	A2A2Y4	-0.69095
97494	Q2Q067	Q5J8X5	-1.0345
97495	Q2Q067	Q9UJC3	-0.19441
97496	Q2Q067	Q96R47	-1.4096
97497	Q2Q067	Q63ZY6	-0.38719
97498	Q2Q067	O75264	-1.0345
97499	Q2Q067	P57088	-0.86268
97500	Q2Q067	Q6X9E4	-0.17804
97501	Q2Q067	P55039	-0.87339
97502	Q2Q067	P48029	-0.87415
97503	Q2Q067	Q9NXG6	-1.2617
97504	Q2Q067	Q5VV42	-0.8735
97505	Q2Q067	Q53GS9	-0.33313
97506	Q2Q067	Q9Y5W9	-0.70496
97507	Q2Q067	Q969G6	-0.47849
97508	Q2Q067	P29475	-0.22759



97509	Q2Q067	Q9H329	-0.24027
97510	Q2Q067	Q9NYY8	-0.35547
97511	Q2Q067	P17538	-1.5058
97512	Q2Q067	A6NCD1	-0.73178
97513	Q2Q067	Q9H4B8	-0.83314
97514	Q2Q067	Q96D53	-1.0988
97515	Q2Q067	Q5K130	-0.13451
97516	Q2Q067	Q8NER5	-1.1792
97517	Q2Q067	Q9C004	-0.18113
97518	Q2Q067	Q9H3N1	-1.0397
97519	Q2Q067	P55072	-0.24144
97520	Q2Q067	Q9NXU5	-1.4417
97521	Q2Q067	P52179	-0.79029
97522	Q2Q067	Q8NGV0	-1.4096
97523	Q2Q067	Q2M1Z3	-1.2797
97524	Q2Q067	Q9BZW8	-0.67994
97525	Q2Q067	Q96B70	-0.76667
97526	Q2Q067	Q2WGN9	-0.51797
97527	Q2Q067	Q13263	-0.22749
97528	Q2Q067	Q9UQ10	-0.81059
97529	Q2Q067	O60241	-1.491
97530	Q2Q067	Q7LFX5	-0.61293
97531	Q2Q067	Q5U5Q3	-0.22739
97532	Q2Q067	P04271	-0.90356
97533	Q2Q067	Q99973	-0.51036
97534	Q2Q067	P0C6P0	-0.17729
97535	Q2Q067	Q7Z7N9	-1.0345
97536	Q2Q067	Q96L91	-0.37986
97537	Q2Q067	Q6UX53	-0.46621
97538	Q2Q067	A8MV57	-0.25527
97539	Q2Q067	Q9Y3D2	-0.25654
97540	Q2Q067	Q86XJ0	-1.0345
97541	Q2Q067	Q13753	-1.2845
97542	Q2Q067	P50591	-0.77678
97543	Q2Q067	Q8WV16	-0.3949
97544	Q2Q067	O95415	-1.0345
97545	Q2Q067	P40123	-0.63065
97546	Q2Q067	Q9NS64	-0.83762
97547	Q2Q067	P0C7V9	-0.38719
97548	Q2Q067	Q76KP1	-0.84861
97549	Q2Q067	P05161	-0.47787
97550	Q2Q067	Q13454	-0.91001
97551	Q2Q067	Q8IYL2	-0.24528
97552	Q2Q067	Q13099	-0.23371
97553	Q2Q067	Q92838	-1.0258
97554	Q2Q067	Q7Z408	-1.1634
97555	Q2Q067	Q6PJI9	-0.24416
97556	Q2Q067	Q9NQ39	-0.16579
97557	Q2Q067	P16662	-1.0014
97558	Q2Q067	Q9BSW7	-0.58224
97559	Q2Q067	Q9BXD5	-0.31399
97560	Q2Q067	P16860	-0.50645
97561	Q2Q067	P0CG01	-0.98666
97562	Q2Q067	Q86Y29	-0.98666
97563	Q2Q067	Q9BZV3	-1.1884
97564	Q2Q067	Q9BQB4	-0.37463
97565	Q2Q067	Q17RD7	-0.54803
97566	Q2Q067	Q96GZ6	-1.1273
97567	Q2Q067	Q9H3Z4	-0.54377
97568	Q2Q067	P07311	-0.30307
97569	Q2Q067	Q6NWX9	-0.22549
97570	Q2Q067	Q9BW04	-0.33831
97571	Q2Q067	P59535	-1.3729
97572	Q2Q067	O94832	-0.69101
97573	Q2Q067	P48060	-1.4801
97574	Q2Q067	Q86W28	-0.74063
97575	Q2Q067	Q5TIA1	-0.38365
97576	Q2Q067	P14618	-0.17426
97577	Q2Q067	P16219	-0.39816
97578	Q2Q067	P0CG04	-1.1115
97579	Q2Q067	Q9Y6Q1	-0.40421
97580	Q2Q067	Q5T9C9	-1.0679
97581	Q2Q067	P51606	-0.3478
97582	Q2Q067	O60499	-0.41679
97583	Q2Q067	P09417	-0.38144
97584	Q2Q067	O60811	-0.19475

97585	Q2Q067	Q9P2K1	-0.36372
97586	Q2Q067	P59827	-0.98529
97587	Q2Q067	Q9H6S3	-0.33831
97588	Q2Q067	A8MWC7	-0.12304
97589	Q2Q067	Q8NBI5	-1.0195
97590	Q2Q067	A6NLB4	-0.22571
97591	Q2Q067	Q14943	-1.2628
97592	Q2Q067	Q5VZ19	-0.96284
97593	Q2Q067	O75581	-0.23841
97594	Q2Q067	Q6B0I6	-0.19253
97595	Q2Q067	Q86TA4	-0.075372
97596	Q2Q067	Q9BXJ4	-0.49154
97597	Q2Q067	A6NGN9	-0.98666
97598	Q2Q067	O75131	-0.22825
97599	Q2Q067	Q5BKU9	-0.21265
97600	Q2Q067	O95025	-1.27
97601	Q2Q067	Q12913	-0.5387
97602	Q2Q067	O43704	-0.27877
97603	Q2Q067	Q8N485	-0.0051606
97604	Q2Q067	Q00765	-0.23991
97605	Q2Q067	A6NNA5	-0.053944
97606	Q2Q067	P29597	-0.89725
97607	Q2Q067	Q7Z5G4	-0.33784
97608	Q2Q067	Q8NI17	-0.63186
97609	Q2Q067	P78556	-1.1674
97610	Q2Q067	Q9UN67	-1.3348
97611	Q2Q067	Q96SZ6	-0.50461
97612	Q2Q067	Q92823	-0.92894
97613	Q2Q067	Q8WUM9	-1.3127
97614	Q2Q067	O96002	-0.24416
97615	Q2Q067	Q96PC2	-0.5621
97616	Q2Q067	Q8TED4	-0.95901
97617	Q2Q067	Q96DR7	-1.0701
97618	Q2Q067	Q9HCE9	-1.2393
97619	Q2Q067	O75355	-1.3876
97620	Q2Q067	P51878	-0.89898
97621	Q2Q067	Q8NH19	-1.4096
97622	Q2Q067	P0C870	-0.15711
97623	Q2Q067	A6NC05	-0.36972
97624	Q2Q067	Q9H4F8	-1.3551
97625	Q2Q067	Q7L1W4	-1.0345
97626	Q2Q067	P19087	-0.99006
97627	Q2Q067	Q86U37	-0.2518
97628	Q2Q067	Q8IZV2	-1.0608
97629	Q2Q067	P51956	-0.26295
97630	Q2Q067	Q9UGU5	-0.23569
97631	Q2Q067	P00751	-1.4519
97632	Q2Q067	Q8IWW8	-0.22327
97633	Q2Q067	Q99967	-0.16771
97634	Q2Q067	Q9PON5	-0.83714
97635	Q2Q067	Q96FK6	-0.22741
97636	Q2Q067	Q6UWU2	-0.83124
97637	Q2Q067	Q9UIF3	-0.13707
97638	Q2Q067	Q9NY25	-1.0509
97639	Q2Q067	A6NML5	-1.0345
97640	Q2Q067	Q96RD1	-1.4096
97641	Q2Q067	Q92915	-0.29511
97642	Q2Q067	Q8NB25	-0.24416
97643	Q2Q067	O75365	-0.96973
97644	Q2Q067	O14524	-0.88683
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97647	Q2Q067	Q9BXN1	-1.1006
97648	Q2Q067	Q9H2R5	-1.5202
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97650	Q2Q067	Q9UJM8	-0.68959
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97660	Q2Q067	Q6UWT4	-0.98666

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97664	Q2Q067	Q12947	-0.33268
97665	Q2Q067	P27987	-0.94147
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97672	Q2Q067	Q8TDB4	-0.1404
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97675	Q2Q067	Q5BKU6	-0.066997
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97680	Q2Q067	Q6VVX0	-0.73883
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97692	Q2Q067	Q9UK55	-0.58051
97693	Q2Q067	Q9UJU6	-0.74561
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97696	Q2Q067	Q86WT6	-0.22846
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97699	Q2Q067	Q96SF7	-0.30653
97700	Q2Q067	P12081	-0.28698
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97703	Q2Q067	Q14692	-0.4936
97704	Q2Q067	Q10981	-0.71825
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97713	Q2Q067	Q8IZJ0	-0.99416
97714	Q2Q067	Q96KN3	-0.33876
97715	Q2Q067	A6NIM6	-0.81022
97716	Q2Q067	A6NMB1	-1.2081
97717	Q2Q067	Q9H6R7	-0.012073
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97719	Q2Q067	P54646	-0.32688
97720	Q2Q067	Q8TBH0	-0.22304
97721	Q2Q067	Q496H8	-0.57999
97722	Q2Q067	Q9H568	-0.21707
97723	Q2Q067	Q8NG98	-1.4096
97724	Q2Q067	P48050	-0.6043
97725	Q2Q067	Q8IXZ3	-0.2099
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97727	Q2Q067	Q8NHC6	-1.4096
97728	Q2Q067	Q9NV64	-1.0345
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97731	Q2Q067	Q96LB2	-1.4342
97732	Q2Q067	Q9NS66	-1.4967
97733	Q2Q067	Q96I36	-0.84145
97734	Q2Q067	Q06520	-0.22829
97735	Q2Q067	Q14680	-0.66055
97736	Q2Q067	Q08116	-0.80259

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97739	Q2Q067	Q9UHF3	-1.1192
97740	Q2Q067	Q92826	-0.2271
97741	Q2Q067	O43272	-0.21223
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97743	Q2Q067	Q9BRN9	-1.0345
97744	Q2Q067	Q92581	-1.0494
97745	Q2Q067	A1A519	-0.73178
97746	Q2Q067	O95500	-0.81973
97747	Q2Q067	O95868	-0.82655
97748	Q2Q067	Q9NRN9	-0.40146
97749	Q2Q067	O94933	-1.1214
97750	Q2Q067	Q5RL73	-0.40724
97751	Q2Q067	O94910	-0.97984
97752	Q2Q067	P18462	-0.98258
97753	Q2Q067	P40227	-0.4249
97754	Q2Q067	Q52LG2	-0.027519
97755	Q2Q067	Q9NRW4	-0.5737
97756	Q2Q067	Q15858	-1.065
97757	Q2Q067	C9JI98	-1.0345
97758	Q2Q067	Q8TDT2	-1.4967
97759	Q2Q067	Q96EP5	-0.70706
97760	Q2Q067	Q6N075	-1.062
97761	Q2Q067	P17568	-0.14002
97762	Q2Q067	P34972	-1.3164
97763	Q2Q067	Q8IZ13	-0.21265
97764	Q2Q067	P30484	-1.1453
97765	Q2Q067	Q9H3G5	-0.74529
97766	Q2Q067	Q9UL25	-0.53393
97767	Q2Q067	Q96A72	-0.14281
97768	Q2Q067	Q8IWR0	-0.42257
97769	Q2Q067	Q8IVY1	-1.0345
97770	Q2Q067	Q6PK18	-1.1578
97771	Q2Q067	Q5VUM1	-0.79903
97772	Q2Q067	P23142	-1.1347
97773	Q2Q067	Q8N6D5	-0.2274
97774	Q2Q067	Q69YW2	-1.0345
97775	Q2Q067	Q9UKA1	-0.2269
97776	Q2Q067	Q5T481	-0.88202
97777	Q2Q067	P48431	-0.27252
97778	Q2Q067	Q5VWV2	-0.96975
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98179	Q2Q067	P28799	-0.24353
98180	Q2Q067	Q8NGZ3	-1.4096
98181	Q2Q067	Q68DQ2	-0.39245
98182	Q2Q067	Q8TE58	-1.4569
98183	Q2Q067	Q86UP6	-0.73023
98184	Q2Q067	Q99640	-0.22741
98185	Q2Q067	Q9UBP5	-0.22693
98186	Q2Q067	P22792	-0.9295
98187	Q2Q067	Q86YN6	-0.22593
98188	Q2Q067	O42043	-0.86704
98189	Q2Q067	Q08426	-0.36801
98190	Q2Q067	Q8TCU6	-0.22757
98191	Q2Q067	Q9UIG4	-0.77379
98192	Q2Q067	P20941	-0.179

98193	Q2Q067	P05019	-0.23177
98194	Q2Q067	Q86WA8	-0.41459
98195	Q2Q067	Q8IV38	-0.68378
98196	Q2Q067	Q9H0U3	-1.2184
98197	Q2Q067	P51955	-0.22741
98198	Q2Q067	Q8N6M6	-0.69248
98199	Q2Q067	Q9UPR5	-1.0222
98200	Q2Q067	Q01432	-0.18874
98201	Q2Q067	Q13822	-1.0466
98202	Q2Q067	O60487	-0.55846
98203	Q2Q067	Q969L2	-0.32851
98204	Q2Q067	Q3KQZ1	-0.86765
98205	Q2Q067	Q5SY16	-0.61382
98206	Q2Q067	Q9NY56	-0.92382
98207	Q2Q067	Q96M02	-0.054782
98208	Q2Q067	Q9Y5W8	-0.81656
98209	Q2Q067	A0PK11	-1.0345
98210	Q2Q067	P25713	-0.17796
98211	Q2Q067	Q93088	-0.17643
98212	Q2Q067	Q8WWZ1	-0.93109
98213	Q2Q067	P02749	-0.5278
98214	Q2Q067	Q9NVP1	-0.064767
98215	Q2Q067	B2RNN3	-1.0482
98216	Q2Q067	A6NJ78	-0.38719
98217	Q2Q067	Q86UF1	-1.0345
98218	Q2Q067	O00522	-0.22741
98219	Q2Q067	P06858	-0.53437
98220	Q2Q067	Q8N402	-0.010639
98221	Q2Q067	O43432	-0.20439
98222	Q2Q067	Q6UX06	-1.0318
98223	Q2Q067	Q96EV2	-0.96284
98224	Q2Q067	O95786	-0.22714
98225	Q2Q067	P0CI00	-0.37381
98226	Q2Q067	Q53EL9	-1.0568
98227	Q2Q067	Q16445	-0.9113
98228	Q2Q067	P18031	-0.34483
98229	Q2Q067	P28067	-0.80189
98230	Q2Q067	O75173	-0.94748
98231	Q2Q067	P11586	-0.37959
98232	Q2Q067	Q99677	-1.6838
98233	Q2Q067	Q8NDC4	-0.15129
98234	Q2Q067	O00451	-0.52265
98235	Q2Q067	Q96D05	-1.0345
98236	Q2Q067	Q15438	-0.22741
98237	Q2Q067	P87889	-0.39083
98238	Q2Q067	P30487	-1.1453
98239	Q2Q067	Q8IX05	-0.94713
98240	Q2Q067	Q8NGN1	-1.4096
98241	Q2Q067	Q9UPM9	-0.22672
98242	Q2Q067	Q7Z4F1	-1.1146
98243	Q2Q067	Q6PIL6	-1.0378
98244	Q2Q067	Q96NG3	-0.22292
98245	Q2Q067	Q9Y385	-1.4036
98246	Q2Q067	Q8NDV7	-0.22495
98247	Q2Q067	Q4VX67	-1.0345
98248	Q2Q067	Q6RI45	-0.31016
98249	Q2Q067	P20472	-0.3916
98250	Q2Q067	Q9P0I2	-0.76248
98251	Q2Q067	P59665	-1.0353
98252	Q2Q067	A8MYR8	-0.088166
98253	Q2Q067	P59541	-1.3729
98254	Q2Q067	Q96HC4	-0.25159
98255	Q2Q067	O15020	-0.22776
98256	Q2Q067	P0C7U2	-0.4228
98257	Q2Q067	P12034	-0.74699
98258	Q2Q067	P07305	-0.45288
98259	Q2Q067	Q8N2I9	-0.22741
98260	Q2Q067	Q6NZY7	-0.4942
98261	Q2Q067	Q96DT7	-0.22643
98262	Q2Q067	Q53HR8	-0.33974
98263	Q2Q067	Q15788	-0.41086
98264	Q2Q067	O60729	-0.22741
98265	Q2Q067	Q8IX04	-0.4523
98266	Q2Q067	P69892	-0.23916
98267	Q2Q067	Q8IY49	-0.82825
98268	Q2Q067	Q9BZC7	-1.1981

98269	Q2Q067	Q14142	-0.49332
98270	Q2Q067	Q9P1W8	-0.63787
98271	Q2Q067	Q13938	-0.22347
98272	Q2Q067	P84550	-0.10964
98273	Q2Q067	Q8IYU4	-0.065284
98274	Q2Q067	Q8N3A8	-0.68028
98275	Q2Q067	P43115	-1.2628
98276	Q2Q067	P20800	-0.60699
98277	Q2Q067	Q32M92	-0.046492
98278	Q2Q067	Q86XR7	-0.45025
98279	Q2Q067	Q9H4B7	-0.69081
98280	Q2Q067	O43462	-0.97227
98281	Q2Q067	Q9NYG8	-1.2903
98282	Q2Q067	P05014	-0.77343
98283	Q2Q067	O95171	-0.14602
98284	Q2Q067	P01178	-0.42346
98285	Q2Q067	Q6GMV2	-0.31321
98286	Q2Q067	B1AK53	-0.53104
98287	Q2Q067	P31937	-0.40268
98288	Q2Q067	Q7KZI7	-0.86507
98289	Q2Q067	Q86TD4	-0.56824
98290	Q2Q067	P49753	-0.28006
98291	Q2Q067	O43427	-0.10287
98292	Q2Q067	P24593	-0.4101
98293	Q2Q067	O15481	-0.044225
98294	Q2Q067	Q9HBT6	-1.3119
98295	Q2Q067	Q969N2	-0.20519
98296	Q2Q067	Q96RQ3	-0.73417
98297	Q2Q067	P0DJD1	-0.48206
98298	Q2Q067	Q96JE9	-0.078751
98299	Q2Q067	Q9P0K9	-0.77947
98300	Q2Q067	P0CJ78	-0.085533
98301	Q2Q067	Q86XE5	-0.40007
98302	Q2Q067	Q5DID0	-1.4724
98303	Q2Q067	Q9BZ81	-0.24416
98304	Q2Q067	Q6IBW4	-0.33448
98305	Q2Q067	Q8N7R7	-0.4023
98306	Q2Q067	Q969E3	-0.85271
98307	Q2Q067	Q8NCN5	-0.068007
98308	Q2Q067	Q96G42	-0.2178
98309	Q2Q067	Q9H0R8	-0.22055
98310	Q2Q067	A6NDK9	-0.28132
98311	Q2Q067	A6NDX4	-1.0345
98312	Q2Q067	Q6ZMG9	-0.24263
98313	Q2Q067	Q13520	-0.95186
98314	Q2Q067	P26885	-0.22906
98315	Q2Q067	Q9Y336	-1.3915
98316	Q2Q067	Q9UHM6	-1.337
98317	Q2Q067	P38570	-1.2535
98318	Q2Q067	P25100	-1.3409
98319	Q2Q067	Q68D42	-1.0345
98320	Q2Q067	Q7Z3Q1	-1.0195
98321	Q2Q067	Q9HCJ5	-0.48451
98322	Q2Q067	Q6B8I1	-0.75558
98323	Q2Q067	Q9NPF7	-0.44754
98324	Q2Q067	Q9UBH0	-0.93109
98325	Q2Q067	P14598	-0.33119
98326	Q2Q067	Q15465	-0.2274
98327	Q2Q067	Q5VT79	-0.42848
98328	Q2Q067	Q86UB9	-1.0957
98329	Q2Q067	P22301	-0.40639
98330	Q2Q067	Q8IUC4	-0.53541
98331	Q2Q067	Q9H237	-0.97072
98332	Q2Q067	O75689	-0.34405
98333	Q2Q067	P41145	-0.99014
98334	Q2Q067	Q9ULB4	-1.1818
98335	Q2Q067	O76054	-0.42272
98336	Q2Q067	Q99489	-0.47719
98337	Q2Q067	P0C7Q5	-1.0345
98338	Q2Q067	Q9P0N8	-1.2722
98339	Q2Q067	Q13315	-0.4387
98340	Q2Q067	Q5T601	-0.93408
98341	Q2Q067	Q96AD5	-0.7411
98342	Q2Q067	Q2VIQ3	-0.29279
98343	Q2Q067	O60361	-0.99005
98344	Q2Q067	Q9Y2U5	-0.78009

98345	Q2Q067	P01210	-1.0571
98346	Q2Q067	Q16515	-0.84149
98347	Q2Q067	P17844	-0.3612
98348	Q2Q067	P57768	-0.66835
98349	Q2Q067	Q9NSN8	-0.22591
98350	Q2Q067	Q9BTC0	-0.22725
98351	Q2Q067	A6NHN6	-0.98666
98352	Q2Q067	P42685	-0.6668
98353	Q2Q067	Q8TEA1	-0.41073
98354	Q2Q067	Q14D04	-0.78341
98355	Q2Q067	Q52LJ0	-0.38123
98356	Q2Q067	P01619	-1.101
98357	Q2Q067	Q6P587	-0.077087
98358	Q2Q067	Q9UK17	-1.2123
98359	Q2Q067	Q15404	-0.43378
98360	Q2Q067	Q9BS40	-0.22421
98361	Q2Q067	Q9Y2U8	-0.33901
98362	Q2Q067	O43280	-0.42384
98363	Q2Q067	Q96P67	-1.4967
98364	Q2Q067	P11229	-0.89196
98365	Q2Q067	Q95807	-0.80303
98366	Q2Q067	Q92626	-1.2122
98367	Q2Q067	A8MUM7	-0.31035
98368	Q2Q067	P01606	-1.1115
98369	Q2Q067	Q6UWF7	-0.98666
98370	Q2Q067	Q8NGE0	-1.4096
98371	Q2Q067	P59046	-0.22728
98372	Q2Q067	Q16850	-1.0926
98373	Q2Q067	Q68BL7	-0.96288
98374	Q2Q067	Q9Y2C3	-0.9159
98375	Q2Q067	O43795	-0.50829
98376	Q2Q067	P01137	-0.22741
98377	Q2Q067	Q96C10	-0.22707
98378	Q2Q067	Q969X5	-0.065855
98379	Q2Q067	Q5JS37	-0.98666
98380	Q2Q067	O75022	-0.74063
98381	Q2Q067	Q8N6D2	-0.40847
98382	Q2Q067	Q9Y5F2	-1.3638
98383	Q2Q067	Q8WXF3	-0.91253
98384	Q2Q067	P43088	-1.6671
98385	Q2Q067	P62995	-0.2191
98386	Q2Q067	Q32NB8	-0.73052
98387	Q2Q067	Q86VZ6	-0.22725
98388	Q2Q067	P60880	-0.21483
98389	Q2Q067	Q9BQT9	-1.1141
98390	Q2Q067	Q969S6	-1.0345
98391	Q2Q067	Q96BF3	-1.1634
98392	Q2Q067	Q8N4T8	-0.2816
98393	Q2Q067	Q9UHF1	-1.2216
98394	Q2Q067	P01780	-1.1115
98395	Q2Q067	Q96KN8	-0.17129
98396	Q2Q067	P32238	-0.80957
98397	Q2Q067	Q8IYB4	-0.27135
98398	Q2Q067	P27544	-0.64462
98399	Q2Q067	A6NF89	-1.4096
98400	Q2Q067	Q8NCQ5	-0.41615
98401	Q2Q067	Q5BKT4	-0.9946
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98404	Q2Q067	P01303	-0.70477
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98408	Q2Q067	Q5VYS8	-0.47809
98409	Q2Q067	Q4VXF1	-1.0345
98410	Q2Q067	Q16798	-0.46926
98411	Q2Q067	Q9GZM7	-1.0108
98412	Q2Q067	Q9Y4E8	-0.36257
98413	Q2Q067	Q5T1M5	-0.70667
98414	Q2Q067	Q9P2L0	-0.22741
98415	Q2Q067	Q96A37	-0.73178
98416	Q2Q067	P45378	-0.33889
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98418	Q2Q067	Q8IWT3	-0.22691
98419	Q2Q067	Q92618	-0.085533
98420	Q2Q067	Q9BYV7	-0.63787

98421	Q2Q067	Q9Y547	-0.58277
98422	Q2Q067	Q9C0J1	-0.63844
98423	Q2Q067	Q9UPS6	-0.24812
98424	Q2Q067	P05997	-0.97283
98425	Q2Q067	P61266	-0.92686
98426	Q2Q067	P78356	-0.5034
98427	Q2Q067	Q8NGA1	-1.4096
98428	Q2Q067	Q96B54	-0.73178
98429	Q2Q067	Q96MM7	-0.75217
98430	Q2Q067	O14795	-0.43448
98431	Q2Q067	Q9HC58	-1.1727
98432	Q2Q067	Q6PEW0	-0.98968
98433	Q2Q067	Q8IYD9	-0.98666
98434	Q2Q067	Q8NGA6	-1.4096
98435	Q2Q067	Q9P2A4	-0.22742
98436	Q2Q067	Q9Y5K6	-0.2275
98437	Q2Q067	Q8IW45	-0.57234
98438	Q2Q067	Q8IUN9	-1.1706
98439	Q2Q067	Q5VUY0	-0.44284
98440	Q2Q067	Q9BR11	-0.15756
98441	Q2Q067	P78524	-0.4039
98442	Q2Q067	Q15907	-0.94985
98443	Q2Q067	A1X283	-0.22741
98444	Q2Q067	P43632	-1.3184
98445	Q2Q067	Q9NRD0	-0.22692
98446	Q2Q067	Q8TDZ2	-0.22742
98447	Q2Q067	P46095	-1.5052
98448	Q2Q067	Q96FC9	-0.29566
98449	Q2Q067	Q8NI77	-0.70629
98450	Q2Q067	Q9P2P1	-0.74192
98451	Q2Q067	P01776	-1.1115
98452	Q2Q067	Q9ULS6	-1.0103
98453	Q2Q067	Q15231	-0.28126
98454	Q2Q067	Q6ZNA5	-1.1498
98455	Q2Q067	Q6U736	-1.3662
98456	Q2Q067	Q8WXB1	-0.94793
98457	Q2Q067	Q9NUQ2	-0.74826
98458	Q2Q067	Q5VV17	-0.020133
98459	Q2Q067	Q9P0P8	-0.21265
98460	Q2Q067	P68371	-0.22765
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98462	Q2Q067	Q9NYQ7	-1.1999
98463	Q2Q067	P02745	-0.43898
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98466	Q2Q067	P20742	-0.91412
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98468	Q2Q067	Q9Y5A9	-0.36156
98469	Q2Q067	Q8N6G6	-1.2247
98470	Q2Q067	Q75954	-1.1904
98471	Q2Q067	Q13936	-0.31821
98472	Q2Q067	P0CG05	-1.101
98473	Q2Q067	Q8WWH4	-0.68236
98474	Q2Q067	Q9NP56	-0.50192
98475	Q2Q067	Q8NEL9	-0.30481
98476	Q2Q067	Q8NHC4	-1.4096
98477	Q2Q067	Q75074	-1.0094
98478	Q2Q067	Q13401	-0.14242
98479	Q2Q067	Q96MV8	-1.01
98480	Q2Q067	Q96P64	-1.1564
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98483	Q2Q067	P51784	-0.30949
98484	Q2Q067	Q13586	-0.49915
98485	Q2Q067	O00142	-0.63858
98486	Q2Q067	Q9NR12	-0.2766
98487	Q2Q067	Q5VYY1	-0.2274
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98490	Q2Q067	P35326	-0.33388
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98493	Q2Q067	P29803	-0.32069
98494	Q2Q067	Q9UIJ7	-0.74136
98495	Q2Q067	P01891	-0.99938
98496	Q2Q067	Q9UBU6	-1.0345

98497	Q2Q067	Q8NGJ0	-1.4096
98498	Q2Q067	Q8NHE4	-0.7942
98499	Q2Q067	Q86YH6	-0.21902
98500	Q2Q067	Q95789	-0.38251
98501	Q2Q067	Q9N2K0	-0.73255
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98503	Q2Q067	Q8NHP7	-0.69115
98504	Q2Q067	A6NMZ7	-1.3099
98505	Q2Q067	P29373	-0.21262
98506	Q2Q067	Q9H2S6	-0.94987
98507	Q2Q067	O00295	-0.89778
98508	Q2Q067	Q13070	-0.18742
98509	Q2Q067	P0DJD7	-1.2971
98510	Q2Q067	P31391	-1.5315
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98512	Q2Q067	Q8NHS1	-1.0345
98513	Q2Q067	Q9HAC8	-0.21392
98514	Q2Q067	P04439	-1.2066
98515	Q2Q067	Q9NQ94	-0.24431
98516	Q2Q067	Q9NYM4	-1.4224
98517	Q2Q067	Q9HBA9	-0.796
98518	Q2Q067	Q96I45	-1.0345
98519	Q2Q067	Q07837	-1.0883
98520	Q2Q067	Q96PG2	-1.0345
98521	Q2Q067	O60512	-0.48092
98522	Q2Q067	Q9UHC3	-0.70237
98523	Q2Q067	Q8IXA5	-0.71324
98524	Q2Q067	Q1ZYL8	-0.98666
98525	Q2Q067	Q9P2N7	-0.19972
98526	Q2Q067	Q9UQP3	-1.065
98527	Q2Q067	Q9UIM3	-0.28601
98528	Q2Q067	Q13606	-1.4096
98529	Q2Q067	Q95944	-1.4336
98530	Q2Q067	Q9C0D5	-0.57377
98531	Q2Q067	Q6UXU6	-1.0345
98532	Q2Q067	P35318	-0.29527
98533	Q2Q067	P78334	-1.0018
98534	Q2Q067	A6NLE4	-1.1634
98535	Q2Q067	Q8NGJ8	-1.4096
98536	Q2Q067	Q96T60	-0.48216
98537	Q2Q067	Q8NGI7	-1.4096
98538	Q2Q067	Q969Y2	-0.95947
98539	Q2Q067	Q9HDC9	-0.90441
98540	Q2Q067	Q9BSE5	-0.20379
98541	Q2Q067	Q6PIF6	-0.92116
98542	Q2Q067	P01258	-0.53952
98543	Q2Q067	Q9NQ34	-1.2344
98544	Q2Q067	P48165	-1.2316
98545	Q2Q067	Q8TD86	-0.226
98546	Q2Q067	Q13637	-0.91441
98547	Q2Q067	Q9UBY8	-0.4319
98548	Q2Q067	Q8IZ08	-1.4967
98549	Q2Q067	Q92730	-0.44337
98550	Q2Q067	Q86VZ1	-1.4336
98551	Q2Q067	P35443	-0.82386
98552	Q2Q067	Q9UK59	-0.11518
98553	Q2Q067	Q9Y5X3	-0.82305
98554	Q2Q067	F2Z333	-1.0345
98555	Q2Q067	Q8NA54	-0.29085
98556	Q2Q067	Q9NRG7	-0.89117
98557	Q2Q067	Q9BTU6	-0.38601
98558	Q2Q067	P43235	-0.75699
98559	Q2Q067	Q9Y5T4	-0.90869
98560	Q2Q067	Q2M389	-0.34932
98561	Q2Q067	Q8WVV4	-0.44287
98562	Q2Q067	Q6PFW1	-0.23861
98563	Q2Q067	P30443	-1.1773
98564	Q2Q067	Q9NZ72	-0.20323
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98566	Q2Q067	Q9UHC9	-0.49995
98567	Q2Q067	Q9GZN8	-0.24416
98568	Q2Q067	P49862	-1.4579
98569	Q2Q067	O43252	-0.8251
98570	Q2Q067	Q6IMI4	-0.3314
98571	Q2Q067	Q16584	-0.22741
98572	Q2Q067	Q99426	-0.22203

98573	Q2Q067	Q969M1	-0.54844
98574	Q2Q067	Q86WT1	-0.51507
98575	Q2Q067	Q8IWB9	-1.1532
98576	Q2Q067	O00445	-0.81818
98577	Q2Q067	Q96F44	-0.27415
98578	Q2Q067	P17948	-0.56019
98579	Q2Q067	P22748	-0.20595
98580	Q2Q067	O75144	-1.2506
98581	Q2Q067	Q8TBP0	-1.4231
98582	Q2Q067	O75629	-0.75427
98583	Q2Q067	Q8N183	-0.38223
98584	Q2Q067	Q8NFF2	-1.2099
98585	Q2Q067	P78426	-0.22827
98586	Q2Q067	Q14031	-1.2283
98587	Q2Q067	Q9NRZ7	-0.91017
98588	Q2Q067	Q9H3S3	-1.6357
98589	Q2Q067	P0CH98	-0.25279
98590	Q2Q067	A4D1E9	-0.57591
98591	Q2Q067	Q9NRX4	-0.031668
98592	Q2Q067	O60359	-1.163
98593	Q2Q067	Q15155	-0.75671
98594	Q2Q067	P49638	-0.34075
98595	Q2Q067	Q6UXY1	-0.89801
98596	Q2Q067	Q969S9	-0.6725
98597	Q2Q067	P23510	-0.47842
98598	Q2Q067	P36268	-0.80216
98599	Q2Q067	P50391	-1.3804
98600	Q2Q067	Q15772	-1.0399
98601	Q2Q067	Q9P0S2	-0.62811
98602	Q2Q067	Q9UI15	-0.21604
98603	Q2Q067	Q96A00	-0.26162
98604	Q2Q067	P08758	-0.40629
98605	Q2Q067	Q6UX15	-1.0759
98606	Q2Q067	O75064	-0.28049
98607	Q2Q067	Q9BVA6	-1.2856
98608	Q2Q067	Q53LP3	-0.22741
98609	Q2Q067	Q9UJQ7	-0.38131
98610	Q2Q067	Q15270	-0.22718
98611	Q2Q067	Q7LDG7	-0.77348
98612	Q2Q067	Q6NY19	-0.22742
98613	Q2Q067	Q96M96	-0.93185
98614	Q2Q067	Q7RTU1	-0.32303
98615	Q2Q067	Q7Z5N4	-1.227
98616	Q2Q067	Q8NFT2	-1.1736
98617	Q2Q067	P58215	-0.30981
98618	Q2Q067	Q8IYG6	-0.14889
98619	Q2Q067	Q9H477	-0.90103
98620	Q2Q067	Q9H1D0	-1.2275
98621	Q2Q067	Q9Y3E2	-0.79903
98622	Q2Q067	P10747	-0.23298
98623	Q2Q067	P20594	-1.4194
98624	Q2Q067	Q86UT6	-0.22209
98625	Q2Q067	Q5H9S7	-0.45055
98626	Q2Q067	Q92781	-1.1237
98627	Q2Q067	P82279	-1.4376
98628	Q2Q067	Q7LC44	-0.52996
98629	Q2Q067	Q7L591	-0.58863
98630	Q2Q067	Q8IZU2	-0.22756
98631	Q2Q067	Q5JQC9	-0.45258
98632	Q2Q067	Q8NGF8	-1.4096
98633	Q2Q067	Q96EQ8	-0.75619
98634	Q2Q067	Q8NG76	-1.4096
98635	Q2Q067	O75352	-0.94591
98636	Q2Q067	P30512	-0.98258
98637	Q2Q067	P01861	-1.113
98638	Q2Q067	Q99942	-0.4358
98639	Q2Q067	P42680	-1.2303
98640	Q2Q067	Q494W8	-1.072
98641	Q2Q067	Q7RTS1	-0.22768
98642	Q2Q067	P35790	-0.80204
98643	Q2Q067	Q8IY21	-0.22403
98644	Q2Q067	Q96JG9	-0.22751
98645	Q2Q067	Q9C0H5	-0.35085
98646	Q2Q067	Q9NSC7	-0.86401
98647	Q2Q067	P35612	-0.42757
98648	Q2Q067	Q49AJ0	-0.0012767

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98654	Q2Q067	Q86W74	-1.0345
98655	Q2Q067	P35568	-0.21637
98656	Q2Q067	P48995	-0.39341
98657	Q2Q067	P0CK97	-1.0345
98658	Q2Q067	Q2TB18	-0.28744
98659	Q2Q067	Q8N7X4	-0.24416
98660	Q2Q067	Q8TEW6	-0.39958
98661	Q2Q067	P42679	-0.5696
98662	Q2Q067	P60323	-0.30808
98663	Q2Q067	A6NEE1	-0.51797
98664	Q2Q067	Q18PE1	-0.76303
98665	Q2Q067	P17735	-0.21719
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98667	Q2Q067	Q0ZLH3	-0.57819
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98669	Q2Q067	Q95274	-1.1204
98670	Q2Q067	P30411	-0.7021
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98672	Q2Q067	Q8NEV8	-0.398
98673	Q2Q067	O14717	-0.15829
98674	Q2Q067	P51164	-1.0574
98675	Q2Q067	Q9UNA0	-0.26058
98676	Q2Q067	Q2M3R5	-1.0345
98677	Q2Q067	O43638	-0.30205
98678	Q2Q067	Q9UNH6	-0.67605
98679	Q2Q067	O75449	-0.23658
98680	Q2Q067	Q86U06	-0.64574
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98684	Q2Q067	Q9GZZ9	-0.20715
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98686	Q2Q067	P27482	-0.45603
98687	Q2Q067	Q68D85	-0.96425
98688	Q2Q067	Q15442	-0.19978
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98690	Q2Q067	Q9UK08	-0.96904
98691	Q2Q067	Q9Y696	-0.21985
98692	Q2Q067	Q96RP8	-1.0103
98693	Q2Q067	Q9HAV0	-0.50559
98694	Q2Q067	P29400	-1.0185
98695	Q2Q067	P54284	-0.46677
98696	Q2Q067	Q8N2H9	-0.26355
98697	Q2Q067	Q86W10	-1.2438
98698	Q2Q067	Q9BX97	-0.76149
98699	Q2Q067	Q7RTX8	-0.10329
98700	Q2Q067	Q5JPI9	-0.38719
98701	Q2Q067	Q96HH6	-1.0345
98702	Q2Q067	Q6UWW8	-0.28544
98703	Q2Q067	Q13219	-1.5143
98704	Q2Q067	Q9Y4K4	-0.67512
98705	Q2Q067	Q9NP74	-0.6164
98706	Q2Q067	A4D1B5	-0.19836
98707	Q2Q067	Q8WZ75	-1.0721
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98712	Q2Q067	P53680	-0.17751
98713	Q2Q067	Q8WU10	-0.56541
98714	Q2Q067	O14514	-1.6554
98715	Q2Q067	Q7L311	-1.0345
98716	Q2Q067	Q86UK7	-0.73178
98717	Q2Q067	Q16875	-0.47179
98718	Q2Q067	Q99946	-1.0325
98719	Q2Q067	P16671	-0.48102
98720	Q2Q067	P48443	-0.22779
98721	Q2Q067	Q8IZT8	-0.21978
98722	Q2Q067	Q53R41	-0.35547
98723	Q2Q067	Q6PEZ8	-1.0259
98724	Q2Q067	Q8NEB5	-0.91212



98725	Q2Q067	Q8WV60	-0.25278
98726	Q2Q067	Q9NZL9	-0.16929
98727	Q2Q067	Q969Z0	-0.27202
98728	Q2Q067	Q95876	-0.55487
98729	Q2Q067	Q9NXD2	-0.5636
98730	Q2Q067	Q3SYA9	-0.24416
98731	Q2Q067	Q6ZVZ8	-0.61006
98732	Q2Q067	A8MQB3	-0.044253
98733	Q2Q067	Q6JBY9	-0.45459
98734	Q2Q067	Q86VF5	-0.89123
98735	Q2Q067	Q53GG5	-0.42906
98736	Q2Q067	O43182	-0.69986
98737	Q2Q067	P48551	-0.96465
98738	Q2Q067	Q96HF1	-0.29599
98739	Q2Q067	O00408	-0.22639
98740	Q2Q067	O60478	-1.1904
98741	Q2Q067	O14715	-0.14096
98742	Q2Q067	Q5SZK8	-1.5788
98743	Q2Q067	Q58A44	-0.20901
98744	Q2Q067	Q96QU6	-0.41542
98745	Q2Q067	P40205	-0.62283
98746	Q2Q067	P09429	-0.22817
98747	Q2Q067	O60939	-0.93379
98748	Q2Q067	Q6IS24	-0.87193
98749	Q2Q067	Q14114	-0.99081
98750	Q2Q067	Q6NUM6	-1.0672
98751	Q2Q067	Q6ZS86	-0.89409
98752	Q2Q067	O75343	-0.87863
98753	Q2Q067	Q9NQ88	-0.74446
98754	Q2Q067	P07333	-0.82871
98755	Q2Q067	Q9NYW3	-1.2647
98756	Q2Q067	Q6ZQQ2	-1.0345
98757	Q2Q067	Q9NPG8	-1.13
98758	Q2Q067	Q8N6N2	-0.24416
98759	Q2Q067	Q6ZTR7	-0.069998
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98762	Q2Q067	P14555	-0.90799
98763	Q2Q067	Q3YEC7	-0.22761
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98765	Q2Q067	Q2T9F4	-0.036312
98766	Q2Q067	A8MUN3	-0.98666
98767	Q2Q067	Q5VV11	-0.27267
98768	Q2Q067	O95221	-1.4096
98769	Q2Q067	P13584	-0.77606
98770	Q2Q067	Q05901	-1.0952
98771	Q2Q067	P42681	-0.64895
98772	Q2Q067	Q8I WV2	-1.135
98773	Q2Q067	P43004	-0.66511
98774	Q2Q067	O60565	-0.21898
98775	Q2Q067	A8TX70	-1.3099
98776	Q2Q067	Q6ZSY5	-0.95363
98777	Q2Q067	Q9BSR8	-0.87735
98778	Q2Q067	O95870	-0.97833
98779	Q2Q067	Q7RTY3	-1.0134
98780	Q2Q067	P18507	-0.53951
98781	Q2Q067	Q86W34	-0.92273
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98783	Q2Q067	Q15620	-1.4096
98784	Q2Q067	Q12836	-1.429
98785	Q2Q067	Q9NXR5	-0.22741
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98787	Q2Q067	Q5XPI4	-0.42101
98788	Q2Q067	Q9UMD9	-1.079
98789	Q2Q067	P51817	-0.63006
98790	Q2Q067	Q8N271	-1.1545
98791	Q2Q067	Q496J9	-0.91343
98792	Q2Q067	Q96NR8	-1.2875
98793	Q2Q067	Q9Y616	-0.33371
98794	Q2Q067	Q3KNT9	-1.0345
98795	Q2Q067	Q02325	-0.98666
98796	Q2Q067	Q9H252	-1.121
98797	Q2Q067	Q6XYQ8	-1.0676
98798	Q2Q067	Q8NGZ5	-1.4096
98799	Q2Q067	Q8IYL9	-1.5388
98800	Q2Q067	Q9GZU3	-1.0345

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98802	Q2Q067	O00469	-0.7785
98803	Q2Q067	O95104	-0.42675
98804	Q2Q067	Q7Z713	-0.22741
98805	Q2Q067	O00482	-0.23464
98806	Q2Q067	Q9H6A9	-1.0345
98807	Q2Q067	Q6YBV0	-0.97256
98808	Q2Q067	Q01813	-0.6263
98809	Q2Q067	Q9BWX1	-0.19634
98810	Q2Q067	Q9BVK6	-0.17644
98811	Q2Q067	B7Z6K7	-0.37381
98812	Q2Q067	Q8NFD2	-1.3228
98813	Q2Q067	Q5HYM0	-0.44678
98814	Q2Q067	P48643	-0.063275
98815	Q2Q067	P36776	-0.16186
98816	Q2Q067	Q9NNZ6	-0.83698
98817	Q2Q067	Q8IUW5	-0.99288
98818	Q2Q067	Q9H341	-1.4096
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98820	Q2Q067	O14745	-0.79872
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98822	Q2Q067	Q9NZI2	-0.72374
98823	Q2Q067	Q7L985	-1.0345
98824	Q2Q067	Q6UB99	-0.22741
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98827	Q2Q067	Q5VTB9	-0.45518
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98829	Q2Q067	Q5TFG8	-0.43755
98830	Q2Q067	Q9UBY0	-1.2576
98831	Q2Q067	P48764	-0.69584
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98833	Q2Q067	Q96Q77	-0.45603
98834	Q2Q067	Q5T4W7	-0.97518
98835	Q2Q067	Q9BQ31	-0.57268
98836	Q2Q067	Q8WWT9	-0.93516
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98838	Q2Q067	Q9H920	-1.1176
98839	Q2Q067	P30405	-0.145
98840	Q2Q067	Q9P035	-1.3226
98841	Q2Q067	O15533	-0.48752
98842	Q2Q067	Q96MH7	-0.1185
98843	Q2Q067	O15247	-0.83351
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98845	Q2Q067	Q86UL3	-0.63843
98846	Q2Q067	Q9UHF4	-1.0345
98847	Q2Q067	Q96RD9	-1.1634
98848	Q2Q067	Q9UKN1	-1.0379
98849	Q2Q067	Q8WV83	-1.062
98850	Q2Q067	Q9HC21	-0.82143
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98856	Q2Q067	O00626	-1.1357
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98894	Q2Q067	Q9NP78	-0.90236
98895	Q2Q067	Q6NUJ1	-1.1214
98896	Q2Q067	Q1MX18	-0.46166
98897	Q2Q067	O94762	-0.22658
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98899	Q2Q067	O43508	-1.1008
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98915	Q2Q067	Q9BXX1	-0.21802
98916	Q2Q067	O14841	-0.62931
98917	Q2Q067	Q9BQS2	-1.1634
98918	Q2Q067	A6ND91	-0.90835
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98923	Q2Q067	A4D1S5	-1.2693
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98925	Q2Q067	Q6PKC3	-1.1249
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98931	Q2Q067	Q9HC73	-1.6971
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98949	Q2Q067	Q16854	-0.42761
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98952	Q2Q067	Q9BZD6	-1.3074

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98954	Q2Q067	Q8WXX7	-0.24416
98955	Q2Q067	Q6PII5	-0.44835
98956	Q2Q067	A6NCC3	-0.28132
98957	Q2Q067	Q9NV66	-1.0672
98958	Q2Q067	Q9BW62	-0.77636
98959	Q2Q067	P55084	-0.20298
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98961	Q2Q067	P08138	-0.34564
98962	Q2Q067	Q8NB49	-0.80036
98963	Q2Q067	P48645	-1.0023
98964	Q2Q067	Q86YC3	-1.0345
98965	Q2Q067	A6NGE4	-0.22743
98966	Q2Q067	Q96MG2	-0.61419
98967	Q2Q067	Q99218	-1.2195
98968	Q2Q067	Q8IZJ6	-0.80437
98969	Q2Q067	P09131	-0.99322
98970	Q2Q067	E9PIF3	-0.096389
98971	Q2Q067	Q9Y5N1	-1.5503
98972	Q2Q067	P22570	-0.16814
98973	Q2Q067	Q15070	-0.18631
98974	Q2Q067	Q5VSG8	-0.78402
98975	Q2Q067	P09104	-0.16963
98976	Q2Q067	O95685	-0.15707
98977	Q2Q067	Q8NB15	-0.22679
98978	Q2Q067	Q96A47	-0.3343
98979	Q2Q067	C9JQI7	-1.0345
98980	Q2Q067	Q9BTV6	-0.38123
98981	Q2Q067	Q5TA78	-0.37794
98982	Q2Q067	P62805	-0.41126
98983	Q2Q067	O75526	-0.32884
98984	Q2Q067	O43854	-1.3626
98985	Q2Q067	Q16769	-1.3155
98986	Q2Q067	P17900	-0.2038
98987	Q2Q067	P48960	-2.0141
98988	Q2Q067	P49069	-0.44798
98989	Q2Q067	Q93077	-0.82527
98990	Q2Q067	P56192	-0.18214
98991	Q2Q067	Q96JA3	-0.40163
98992	Q2Q067	Q969G2	-0.22759
98993	Q2Q067	Q05315	-0.62035
98994	Q2Q067	A6NKK0	-1.4096
98995	Q2Q067	P28331	-0.18915
98996	Q2Q067	Q92519	-0.2633
98997	Q2Q067	O00144	-0.87293
98998	Q2Q067	Q9Y4D2	-0.90714
98999	Q2Q067	Q16559	-0.22752
99000	Q2Q067	Q15031	-0.19386
99001	Q2Q067	P48549	-0.71382
99002	Q2Q067	Q9NWW9	-0.31959
99003	Q2Q067	Q8WVH0	-0.33703
99004	Q2Q067	P08709	-0.90028
99005	Q2Q067	Q96PE2	-0.57171
99006	Q2Q067	Q9NPF0	-0.87848
99007	Q2Q067	P13995	-0.74521
99008	Q2Q067	Q15109	-0.96774
99009	Q2Q067	P0CAP2	-0.12823
99010	Q2Q067	Q16661	-0.85673
99011	Q2Q067	Q86U02	-1.0345
99012	Q2Q067	Q08AF3	-0.68456
99013	Q2Q067	Q9Y258	-1.0796
99014	Q2Q067	P14415	-0.45077
99015	Q2Q067	Q2M2E3	-1.2882
99016	Q2Q067	P22460	-0.64805
99017	Q2Q067	P04001	-1.5773
99018	Q2Q067	A6NDL7	-0.38719
99019	Q2Q067	Q96PR1	-0.78032
99020	Q2Q067	A8MYJ7	-0.17439
99021	Q2Q067	A6NFO0	-1.0345
99022	Q2Q067	P51671	-1.0205
99023	Q2Q067	Q96L33	-1.3733
99024	Q2Q067	Q8N7P3	-0.85277
99025	Q2Q067	Q9H1M3	-0.94775
99026	Q2Q067	P63218	-0.63112
99027	Q2Q067	Q7Z2D5	-1.1344
99028	Q2Q067	Q13610	-0.22742

99029	Q2Q067	P49146	-1.3269
99030	Q2Q067	Q9NVS9	-0.22647
99031	Q2Q067	Q8WUU8	-1.0345
99032	Q2Q067	Q9Y673	-0.96737
99033	Q2Q067	Q8N0Y5	-1.4096
99034	Q2Q067	A8MXE2	-0.92843
99035	Q2Q067	Q8IZJ4	-0.79637
99036	Q2Q067	Q9GZY6	-0.586
99037	Q2Q067	Q8IUI8	-0.22605
99038	Q2Q067	Q8NFM4	-0.6387
99039	Q2Q067	O75676	-0.21532
99040	Q2Q067	Q7Z4W2	-0.93539
99041	Q2Q067	Q9NUX5	-0.15519
99042	Q2Q067	P37288	-0.50662
99043	Q2Q067	O00398	-1.4336
99044	Q2Q067	Q6UY01	-0.22741
99045	Q2Q067	Q8TEB7	-0.81915
99046	Q2Q067	Q0D2K2	-0.2146
99047	Q2Q067	Q9P2K2	-0.99335
99048	Q2Q067	Q9GZV7	-1.1911
99049	Q2Q067	O43306	-0.65163
99050	Q2Q067	P48061	-0.62303
99051	Q2Q067	Q9UM44	-0.77947
99052	Q2Q067	P09525	-0.34149
99053	Q2Q067	P0CW20	-0.48451
99054	Q2Q067	Q5T750	-0.28272
99055	Q2Q067	P51570	-0.52727
99056	Q2Q067	Q16821	-0.83917
99057	Q2Q067	Q8NC01	-1.372
99058	Q2Q067	P23771	-0.22739
99059	Q2Q067	Q6PCB0	-1.1707
99060	Q2Q067	Q9UBX5	-0.50966
99061	Q2Q067	Q8N149	-1.1566
99062	Q2Q067	Q9NUM4	-0.87896
99063	Q2Q067	P52732	-0.26707
99064	Q2Q067	Q2TAY7	-0.22763
99065	Q2Q067	Q14694	-0.25676
99066	Q2Q067	P13725	-0.55178
99067	Q2Q067	Q9H346	-1.4096
99068	Q2Q067	Q8N2K1	-1.2592
99069	Q2Q067	P31483	-0.24101
99070	Q2Q067	Q15828	-0.97161
99071	Q2Q067	Q13275	-1.0647
99072	Q2Q067	Q15555	-0.13384
99073	Q2Q067	Q8NH69	-1.4096
99074	Q2Q067	P46098	-1.0683
99075	Q2Q067	Q5QP82	-0.3949
99076	Q2Q067	O60667	-0.94701
99077	Q2Q067	Q07444	-1.0053
99078	Q2Q067	Q14995	-0.33856
99079	Q2Q067	P20827	-0.52307
99080	Q2Q067	Q15172	-0.40099
99081	Q2Q067	P15153	-0.71756
99082	Q2Q067	Q569K4	-0.42257
99083	Q2Q067	P0CF74	-1.101
99084	Q2Q067	Q9BUN8	-0.12469
99085	Q2Q067	P0C628	-1.4096
99086	Q2Q067	Q6Y288	-0.95446
99087	Q2Q067	Q8N3I7	-0.40519
99088	Q2Q067	Q7Z7K0	-0.25984
99089	Q2Q067	Q9BVA0	-0.22839
99090	Q2Q067	Q8TC29	-0.48619
99091	Q2Q067	Q8N4N8	-0.2851
99092	Q2Q067	Q13885	-0.57463
99093	Q2Q067	Q9H427	-1.1607
99094	Q2Q067	P26927	-0.95443
99095	Q2Q067	Q86W67	-0.01834
99096	Q2Q067	P58182	-1.4096
99097	Q2Q067	Q9NQC8	-0.10517
99098	Q2Q067	O15034	-0.5571
99099	Q2Q067	Q92527	-0.22739
99100	Q2Q067	Q86TL0	-0.53694
99101	Q2Q067	Q8TAB3	-1.3679
99102	Q2Q067	Q8TEU8	-0.80046
99103	Q2Q067	Q96ID5	-0.98666
99104	Q2Q067	Q96K78	-1.5126

99105	Q2Q067	P09848	-0.74763
99106	Q2Q067	P60508	-1.0096
99107	Q2Q067	Q8N852	-1.0345
99108	Q2Q067	Q02978	-0.49704
99109	Q2Q067	O15335	-1.0034
99110	Q2Q067	P61570	-0.86704
99111	Q2Q067	Q9H207	-1.4096
99112	Q2Q067	Q05D60	-0.051394
99113	Q2Q067	Q96R09	-1.4096
99114	Q2Q067	P04920	-0.95462
99115	Q2Q067	Q9Y6L6	-1.0564
99116	Q2Q067	P54107	-1.0127
99117	Q2Q067	Q587J8	-0.29049
99118	Q2Q067	O14817	-1.3016
99119	Q2Q067	Q9BVG9	-1.0588
99120	Q2Q067	E2RYF6	-1.0345
99121	Q2Q067	Q96CB5	-0.19878
99122	Q2Q067	Q9BUT1	-0.64438
99123	Q2Q067	O60307	-0.77425
99124	Q2Q067	Q96LA9	-1.4967
99125	Q2Q067	Q6NSI4	-0.024898
99126	Q2Q067	P03979	-0.53321
99127	Q2Q067	P09923	-1.3375
99128	Q2Q067	Q8IZ02	-0.24416
99129	Q2Q067	P10266	-0.30998
99130	Q2Q067	P32418	-0.55054
99131	Q2Q067	Q9UDX3	-1.2928
99132	Q2Q067	Q96R72	-1.4096
99133	Q2Q067	Q96MI6	-0.16328
99134	Q2Q067	Q9ULB1	-0.47877
99135	Q2Q067	P24468	-0.2512
99136	Q2Q067	P09619	-0.41534
99137	Q2Q067	Q13046	-1.0002
99138	Q2Q067	Q7Z3H0	-0.22741
99139	Q2Q067	Q9HBV1	-0.88683
99140	Q2Q067	Q9BS86	-0.95735
99141	Q2Q067	Q92871	-0.32902
99142	Q2Q067	Q5VVX9	-0.92845
99143	Q2Q067	Q8IYS2	-1.0345
99144	Q2Q067	O43683	-0.22741
99145	Q2Q067	Q96G04	-0.063394
99146	Q2Q067	Q504U0	-0.11064
99147	Q2Q067	Q9Y4D7	-1.2393
99148	Q2Q067	Q9HBL6	-1.0345
99149	Q2Q067	Q6IQ55	-0.70838
99150	Q2Q067	Q9Y2G3	-0.81641
99151	Q2Q067	Q8WXS5	-0.96112
99152	Q2Q067	P35913	-0.53658
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99155	Q2Q067	Q5R387	-1.023
99156	Q2Q067	Q9Y6V0	-0.45502
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99158	Q2Q067	P30291	-0.22741
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99160	Q2Q067	P43490	-0.13715
99161	Q2Q067	Q9P0L0	-0.33503
99162	Q2Q067	A3QJZ6	-0.19475
99163	Q2Q067	Q6UXB3	-0.65821
99164	Q2Q067	Q3SY69	-0.30773
99165	Q2Q067	Q86UA1	-0.16439
99166	Q2Q067	Q96LB4	-0.45496
99167	Q2Q067	P59538	-1.3729
99168	Q2Q067	P50225	-0.27507
99169	Q2Q067	P40616	-0.8933
99170	Q2Q067	Q2M243	-0.079964
99171	Q2Q067	Q8ND99	-0.11612
99172	Q2Q067	Q5T9Z0	-1.0345
99173	Q2Q067	Q86YS3	-0.19755
99174	Q2Q067	O43653	-0.65821
99175	Q2Q067	Q6ZN44	-1.2143
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99179	Q2Q067	Q06210	-0.1467
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99182	Q2Q067	Q5W0Q7	-0.49414
99183	Q2Q067	Q08431	-0.90995
99184	Q2Q067	Q13261	-0.60895
99185	Q2Q067	Q9BVJ7	-0.22741
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99188	Q2Q067	Q8N2C7	-1.0345
99189	Q2Q067	P22888	-0.58636
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99196	Q2Q067	P60981	-0.42964
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99199	Q2Q067	O43175	-0.78784
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99201	Q2Q067	P30532	-1.1439
99202	Q2Q067	Q07325	-1.1781
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99205	Q2Q067	O94854	-0.28436
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99215	Q2Q067	P21452	-1.553
99216	Q2Q067	Q13748	-0.20702
99217	Q2Q067	B2RXF0	-0.59209
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99219	Q2Q067	P55201	-0.22419
99220	Q2Q067	O95872	-0.41613
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99223	Q2Q067	Q13087	-0.26512
99224	Q2Q067	Q86WK6	-1.4519
99225	Q2Q067	O95372	-0.2764
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99228	Q2Q067	P13693	-0.18217
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99235	Q2Q067	Q8NE79	-0.85623
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99249	Q2Q067	P56851	-0.90906
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99254	Q2Q067	P50607	-0.41395
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99259	Q2Q067	Q8NGN8	-1.4096
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99266	Q2Q067	O43760	-1.0359
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99330	Q2Q067	P54851	-1.0295
99331	Q2Q067	Q8WVM8	-0.22107
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99356	Q2Q067	Q8IUH8	-1.1501
99357	Q2Q067	O95837	-1.1162
99358	Q2Q067	P59817	-0.2273
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99361	Q2Q067	Q8NBN3	-1.0345
99362	Q2Q067	Q9UKI8	-0.84765
99363	Q2Q067	Q08623	-0.42446
99364	Q2Q067	Q9H7X0	-0.30427
99365	Q2Q067	Q6E0U4	-1.0374
99366	Q2Q067	Q9H6E5	-0.22711
99367	Q2Q067	Q9UN42	-0.33578
99368	Q2Q067	Q8IYR6	-1.355
99369	Q2Q067	P78410	-1.0032
99370	Q2Q067	Q8NGN0	-1.4096
99371	Q2Q067	Q70CQ1	-0.3801
99372	Q2Q067	Q8IUQ0	-0.71071
99373	Q2Q067	Q9BW91	-0.39835
99374	Q2Q067	Q96M89	-0.15752
99375	Q2Q067	O60403	-1.4096
99376	Q2Q067	Q7Z7D3	-1.2057
99377	Q2Q067	Q86TB3	-0.80277
99378	Q2Q067	Q4G0I0	-1.0345
99379	Q2Q067	B3SHH9	-1.1634
99380	Q2Q067	Q9Y3A6	-0.6488
99381	Q2Q067	P29371	-1.0175
99382	Q2Q067	P31270	-0.19851
99383	Q2Q067	Q1W4C9	-0.90081
99384	Q2Q067	P0DKV0	-0.081461
99385	Q2Q067	Q9UN19	-0.79353
99386	Q2Q067	P43378	-0.22868
99387	Q2Q067	O43623	-0.21609
99388	Q2Q067	Q149M9	-0.91075
99389	Q2Q067	P07948	-0.23604
99390	Q2Q067	O95858	-1.1904
99391	Q2Q067	P21860	-0.69509
99392	Q2Q067	Q6ZRF8	-0.73178
99393	Q2Q067	P22735	-0.15757
99394	Q2Q067	Q86X59	-0.19405
99395	Q2Q067	P08559	-0.20127
99396	Q2Q067	P36969	-0.52725
99397	Q2Q067	Q6UX39	-0.98394
99398	Q2Q067	Q96FZ5	-1.0608
99399	Q2Q067	Q9NZT1	-0.6448
99400	Q2Q067	Q9NVL8	-0.21985
99401	Q2Q067	Q9UBK8	-0.29123
99402	Q2Q067	P33897	-0.27928
99403	Q2Q067	P17342	-0.90983
99404	Q2Q067	P26583	-0.22965
99405	Q2Q067	Q8TAP4	-0.24244
99406	Q2Q067	P58107	-0.19683
99407	Q2Q067	Q5UCC4	-1.5435
99408	Q2Q067	Q9N2J8	-1.0096

99409	Q2Q067	Q8N357	-0.34435
99410	Q2Q067	Q9UL51	-1.1718
99411	Q2Q067	O15263	-1.0407
99412	Q2Q067	Q9BYX2	-0.711
99413	Q2Q067	P53350	-0.22741
99414	Q2Q067	P04180	-0.37799
99415	Q2Q067	Q6JVE9	-1.0247
99416	Q2Q067	Q15375	-0.8392
99417	Q2Q067	Q8IWU2	-0.96862
99418	Q2Q067	Q9BV99	-0.22739
99419	Q2Q067	P42574	-0.2264
99420	Q2Q067	O60383	-0.67056
99421	Q2Q067	Q9BXJ1	-1.0482
99422	Q2Q067	Q9BYP7	-0.50171
99423	Q2Q067	Q9NSU2	-0.051589
99424	Q2Q067	Q8NEW0	-0.52089
99425	Q2Q067	P05976	-0.40628
99426	Q2Q067	Q9Y3S1	-1.3136
99427	Q2Q067	Q7Z4B0	-0.98666
99428	Q2Q067	Q9P1Q5	-1.4096
99429	Q2Q067	Q8WTQ7	-1.5029
99430	Q2Q067	O15273	-0.15507
99431	Q2Q067	P06887	-1.1115
99432	Q2Q067	P56278	-0.23768
99433	Q2Q067	P30493	-1.1453
99434	Q2Q067	Q9H0H3	-0.21477
99435	Q2Q067	P15085	-1.3795
99436	Q2Q067	Q9UKF2	-1.4051
99437	Q2Q067	Q99645	-1.0123
99438	Q2Q067	P41091	-0.054004
99439	Q2Q067	Q147X3	-0.25603
99440	Q2Q067	Q8WWX0	-0.61006
99441	Q2Q067	Q02575	-0.2257
99442	Q2Q067	Q96EU7	-0.87923
99443	Q2Q067	Q86YJ7	-0.22741
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99445	Q2Q067	Q9Y259	-0.71356
99446	Q2Q067	Q9BXB7	-0.71157
99447	Q2Q067	Q9UP38	-0.45678
99448	Q2Q067	P10398	-0.48942
99449	Q2Q067	P12955	-0.75634
99450	Q2Q067	O60412	-1.4096
99451	Q2Q067	Q8TC36	-0.3731
99452	Q2Q067	Q9Y6M0	-0.97125
99453	Q2Q067	Q8TAS1	-0.4556
99454	Q2Q067	Q9UBH6	-1.3157
99455	Q2Q067	Q9P241	-0.80036
99456	Q2Q067	D6R9N7	-0.76972
99457	Q2Q067	Q5T700	-1.0345
99458	Q2Q067	P49335	-0.22741
99459	Q2Q067	Q96M60	-0.016974
99460	Q2Q067	Q9H015	-0.58552
99461	Q2Q067	O43374	-0.55202
99462	Q2Q067	Q9UKH3	-0.86704
99463	Q2Q067	Q8N808	-1.0345
99464	Q2Q067	P04275	-0.2274
99465	Q2Q067	Q96EX1	-1.0345
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99467	Q2Q067	P98173	-0.77379
99468	Q2Q067	A6NJZ3	-1.4096
99469	Q2Q067	P11182	-0.14712
99470	Q2Q067	Q66K37	-0.22665
99471	Q2Q067	O94967	-0.40591
99472	Q2Q067	P15086	-1.3781
99473	Q2Q067	Q9UKS7	-0.28842
99474	Q2Q067	Q00537	-1.0912
99475	Q2Q067	Q08722	-0.57612
99476	Q2Q067	Q96KR4	-0.5457
99477	Q2Q067	P40198	-1.0345
99478	Q2Q067	Q4G0X9	-0.35842
99479	Q2Q067	Q9BZ67	-0.3932
99480	Q2Q067	P06493	-0.21896
99481	Q2Q067	Q687X5	-1.547
99482	Q2Q067	Q6ZRY4	-0.91559
99483	Q2Q067	P01703	-1.1115
99484	Q2Q067	Q9Y442	-1.0345

99485	Q2Q067	Q13103	-0.91758
99486	Q2Q067	Q9UBN7	-0.22134
99487	Q2Q067	Q8N2A0	-0.22588
99488	Q2Q067	Q8NGF6	-1.4096
99489	Q2Q067	P62685	-0.47805
99490	Q2Q067	Q8TCP9	-1.0323
99491	Q2Q067	Q99895	-1.0134
99492	Q2Q067	Q9NYJ7	-1.0493
99493	Q2Q067	P51168	-0.60399
99494	Q2Q067	Q8NEX5	-0.98666
99495	Q2Q067	P62699	-0.52103
99496	Q2Q067	Q7Z7F1	-0.0087717
99497	Q2Q067	P01615	-1.1115
99498	Q2Q067	Q86YD7	-0.43957
99499	Q2Q067	A6NMP4	-0.20629
99500	Q2Q067	Q14953	-1.295
99501	Q2Q067	Q9UMR3	-0.69349
99502	Q2Q067	P98153	-1.0975
99503	Q2Q067	Q9UI47	-0.2199
99504	Q2Q067	Q8IYA7	-0.24497
99505	Q2Q067	P40967	-1.0687
99506	Q2Q067	P14061	-0.54156
99507	Q2Q067	Q8N4L4	-1.2098
99508	Q2Q067	Q4V326	-0.18742
99509	Q2Q067	P08243	-0.36279
99510	Q2Q067	Q13009	-0.64183
99511	Q2Q067	Q9H1P6	-0.16462
99512	Q2Q067	Q6PDB4	-0.37381
99513	Q2Q067	Q8WXA2	-0.98666
99514	Q2Q067	P58743	-0.96046
99515	Q2Q067	P16871	-0.93382
99516	Q2Q067	P32320	-0.65655
99517	Q2Q067	Q8WY91	-0.52609
99518	Q2Q067	P14406	-0.36866
99519	Q2Q067	Q9BUL5	-0.48451
99520	Q2Q067	Q5TAG4	-0.20901
99521	Q2Q067	Q8TB61	-0.97793
99522	Q2Q067	Q6ZSU1	-0.58871
99523	Q2Q067	Q9GZS0	-0.22741
99524	Q2Q067	Q0VAA2	-0.22741
99525	Q2Q067	P63133	-0.36034
99526	Q2Q067	Q13190	-0.21431
99527	Q2Q067	Q6ZVX7	-0.38874
99528	Q2Q067	O75608	-0.18979
99529	Q2Q067	Q9H2U1	-0.22277
99530	Q2Q067	Q9H8X2	-0.74861
99531	Q2Q067	Q96FQ7	-0.10332
99532	Q2Q067	P36404	-0.22929
99533	Q2Q067	Q9HD23	-0.94542
99534	Q2Q067	Q9Y6G9	-0.22342
99535	Q2Q067	P52797	-0.72336
99536	Q2Q067	O76036	-1.2665
99537	Q2Q067	Q504Y0	-1.0849
99538	Q2Q067	Q8N111	-1.0345
99539	Q2Q067	Q9BVM2	-0.29708
99540	Q2Q067	Q9Y263	-0.22816
99541	Q2Q067	Q9UBC0	-0.22731
99542	Q2Q067	Q8N6K0	-1.0345
99543	Q2Q067	Q13323	-0.3666
99544	Q2Q067	Q5T2D2	-0.49717
99545	Q2Q067	Q5RI15	-0.86095
99546	Q2Q067	Q92619	-1.0965
99547	Q2Q067	Q50LG9	-1.0345
99548	Q2Q067	O95377	-1.0629
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99551	Q2Q067	Q96B77	-0.84904
99552	Q2Q067	Q9H205	-1.4096
99553	Q2Q067	P29033	-0.94229
99554	Q2Q067	Q1AE95	-1.0345
99555	Q2Q067	Q495C1	-0.48451
99556	Q2Q067	Q96BM0	-1.0345
99557	Q2Q067	O15375	-1.1904
99558	Q2Q067	Q6NYC8	-0.20113
99559	Q2Q067	Q9H903	-0.76294
99560	Q2Q067	P16422	-0.22882

99561	Q2Q067	Q9UPQ9	-0.25252
99562	Q2Q067	Q5GH76	-1.0345
99563	Q2Q067	Q96M15	-0.20091
99564	Q2Q067	Q16878	-0.27909
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99566	Q2Q067	P17027	-0.085533
99567	Q2Q067	Q8NBM8	-1.0684
99568	Q2Q067	Q99697	-0.17302
99569	Q2Q067	Q9H6Y5	-0.22675
99570	Q2Q067	Q9UI42	-1.2016
99571	Q2Q067	Q9H792	-0.6161
99572	Q2Q067	P0C875	-0.1395
99573	Q2Q067	P32927	-0.76226
99574	Q2Q067	O75592	-0.22679
99575	Q2Q067	Q15784	-0.22759
99576	Q2Q067	Q8WVP7	-1.0098
99577	Q2Q067	Q96CC6	-0.73364
99578	Q2Q067	O95096	-0.23094
99579	Q2Q067	O95455	-1.0754
99580	Q2Q067	Q8NH54	-1.4096
99581	Q2Q067	P63096	-0.26966
99582	Q2Q067	A2RTX5	-0.33238
99583	Q2Q067	P49767	-0.43885
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99585	Q2Q067	P21941	-0.46094
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99587	Q2Q067	Q9GZP7	-1.3764
99588	Q2Q067	P30498	-1.1453
99589	Q2Q067	Q9H3R1	-0.88137
99590	Q2Q067	Q5GH73	-1.0345
99591	Q2Q067	P51160	-1.2169
99592	Q2Q067	Q9H813	-1.0345
99593	Q2Q067	P16234	-0.29896
99594	Q2Q067	Q9Y371	-0.2274
99595	Q2Q067	Q9Y5P6	-0.76157
99596	Q2Q067	Q8TDI0	-0.46393
99597	Q2Q067	Q9Y5H4	-1.3679
99598	Q2Q067	Q15904	-1.0719
99599	Q2Q067	Q9H6X5	-0.090453
99600	Q2Q067	Q96DY7	-0.33397
99601	Q2Q067	O75369	-0.46843
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99604	Q2Q067	P51149	-0.53192
99605	Q2Q067	Q8TDV2	-1.4967
99606	Q2Q067	P53674	-0.53868
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99608	Q2Q067	P12872	-1.0132
99609	Q2Q067	Q96NU0	-1.4429
99610	Q2Q067	Q969T7	-0.14128
99611	Q2Q067	Q9HC29	-0.22734
99612	Q2Q067	Q8IZS7	-1.146
99613	Q2Q067	Q8N680	-0.11398
99614	Q2Q067	Q8N428	-0.73275
99615	Q2Q067	P78563	-0.15474
99616	Q2Q067	Q4G148	-0.68421
99617	Q2Q067	Q99611	-0.99109
99618	Q2Q067	Q9BPX5	-0.26531
99619	Q2Q067	Q5VUJ5	-1.1564
99620	Q2Q067	Q8IWN7	-0.21377
99621	Q2Q067	P41247	-0.32375
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99626	Q2Q067	Q5U651	-0.29724
99627	Q2Q067	Q6UWP2	-1.5999
99628	Q2Q067	O95319	-0.44327
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99636	Q2Q067	O60256	-0.3413

99637	Q2Q067	O14638	-1.2529
99638	Q2Q067	P29275	-0.88775
99639	Q2Q067	O75443	-1.1682
99640	Q2Q067	P41221	-0.23155
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99642	Q2Q067	Q8IV53	-0.11375
99643	Q2Q067	Q8N127	-1.4096
99644	Q2Q067	Q8IWT6	-1.0815
99645	Q2Q067	Q9H3U5	-1.049
99646	Q2Q067	P45974	-0.37144
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99648	Q2Q067	Q4JDL3	-0.25535
99649	Q2Q067	Q9NWS0	-0.37641
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99651	Q2Q067	P53814	-0.31651
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99715	Q2Q067	P68431	-0.53412
99716	Q2Q067	O75061	-0.32093
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99719	Q2Q067	Q8WZ64	-1.188
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99722	Q2Q067	Q14116	-0.32348
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99728	Q2Q067	P04090	-0.97496
99729	Q2Q067	Q4VNC0	-1.216
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99738	Q2Q067	Q86Y38	-1.2093
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99776	Q2Q067	A1KXE4	-1.053
99777	Q2Q067	Q9NU19	-1.4231
99778	Q2Q067	Q9Y623	-0.33762
99779	Q2Q067	Q8IUS5	-1.1058
99780	Q2Q067	Q494U1	-0.51797
99781	Q2Q067	Q8N7U6	-0.45603
99782	Q2Q067	Q96S52	-0.432
99783	Q2Q067	P55210	-0.22492
99784	Q2Q067	Q8WX77	-0.94123
99785	Q2Q067	Q14332	-0.67583
99786	Q2Q067	Q9NX09	-0.32158
99787	Q2Q067	P07327	-0.21584
99788	Q2Q067	Q9NZQ9	-0.32976

99789	Q2Q067	Q86XQ3	-1.12
99790	Q2Q067	Q29940	-1.1453
99791	Q2Q067	P50895	-1.4135
99792	Q2Q067	Q9BZJ0	-0.15905
99793	Q2Q067	Q96PL2	-1.2356
99794	Q2Q067	Q9HB89	-1.2834
99795	Q2Q067	Q9UJ55	-0.24416
99796	Q2Q067	P13761	-0.40895
99797	Q2Q067	P18136	-1.1115
99798	Q2Q067	P56696	-1.007
99799	Q2Q067	P0C7M3	-0.06517
99800	Q2Q067	Q9Y5G3	-1.3679
99801	Q2Q067	P43489	-0.95059
99802	Q2Q067	A6NNS2	-1.4442
99803	Q2Q067	A4IF30	-1.062
99804	Q2Q067	Q93096	-0.496
99805	Q2Q067	Q9NV92	-0.011102
99806	Q2Q067	P01859	-1.113
99807	Q2Q067	Q14318	-0.22784
99808	Q2Q067	Q68D86	-0.1972
99809	Q2Q067	Q12889	-0.37292
99810	Q2Q067	Q9UQ53	-0.68891
99811	Q2Q067	P12235	-0.23145
99812	Q2Q067	P19875	-1.1067
99813	Q2Q067	Q13546	-0.22741
99814	Q2Q067	Q8IV01	-0.90761
99815	Q2Q067	Q8NAA6	-0.090405
99816	Q2Q067	Q96P63	-0.14005
99817	Q2Q067	Q9NVA4	-1.0345
99818	Q2Q067	P15260	-1.247
99819	Q2Q067	Q9NR19	-0.22811
99820	Q2Q067	Q96P44	-0.93452
99821	Q2Q067	P52945	-0.38688
99822	Q2Q067	O60269	-0.070481
99823	Q2Q067	A6NEL2	-0.22741
99824	Q2Q067	Q8TAV4	-1.3189
99825	Q2Q067	Q27J81	-0.22581
99826	Q2Q067	A6PVL3	-0.86662
99827	Q2Q067	A6NE02	-0.79127
99828	Q2Q067	Q8N6C7	-0.12223
99829	Q2Q067	I6L899	-0.28132
99830	Q2Q067	P53384	-0.25287
99831	Q2Q067	Q6DJT9	-0.13315
99832	Q2Q067	Q8TE77	-0.46096
99833	Q2Q067	O95157	-0.97681
99834	Q2Q067	O95881	-0.51131
99835	Q2Q067	Q8NB90	-1.089
99836	Q2Q067	P08571	-0.59406
99837	Q2Q067	Q8N635	-0.17423
99838	Q2Q067	Q96PL5	-0.94977
99839	Q2Q067	Q7L2Z9	-0.095171
99840	Q2Q067	Q9Y5Y0	-0.54892
99841	Q2Q067	C9JPN9	-0.76972
99842	Q2Q067	Q8TAX7	-0.40578
99843	Q2Q067	Q9P227	-1.2902
99844	Q2Q067	Q9ULF5	-1.0849
99845	Q2Q067	Q6ZVE7	-0.51643
99846	Q2Q067	Q8N8N0	-1.1627
99847	Q2Q067	O94988	-1.0924
99848	Q2Q067	Q9BSG0	-0.98666
99849	Q2Q067	Q8TDJ6	-0.58568
99850	Q2Q067	Q9P298	-1.0345
99851	Q2Q067	O14613	-0.0097514
99852	Q2Q067	Q9UJT1	-0.42547
99853	Q2Q067	O75506	-0.15576
99854	Q2Q067	Q96JF0	-0.90114
99855	Q2Q067	Q8IW00	-1.1634
99856	Q2Q067	Q7RTX7	-1.1062
99857	Q2Q067	Q14003	-0.80784
99858	Q2Q067	Q8NET8	-1.0654
99859	Q2Q067	O95395	-0.60008
99860	Q2Q067	P13569	-0.37977
99861	Q2Q067	Q5HYJ1	-0.95425
99862	Q2Q067	P53602	-0.5586
99863	Q2Q067	Q9H939	-0.22344
99864	Q2Q067	Q75WM6	-1.202

99865	Q2Q067	P20711	-0.60934
99866	Q2Q067	Q8N456	-0.25813
99867	Q2Q067	Q96SI9	-0.7308
99868	Q2Q067	Q96A33	-0.31602
99869	Q2Q067	O75093	-0.74717
99870	Q2Q067	O14836	-0.61356
99871	Q2Q067	P13861	-0.22737
99872	Q2Q067	Q9BX68	-0.31919
99873	Q2Q067	P12319	-1.1355
99874	Q2Q067	Q8TDY3	-0.21707
99875	Q2Q067	Q29718	-1.1453
99876	Q2Q067	Q9HCE6	-0.54479
99877	Q2Q067	Q13423	-0.83521
99878	Q2Q067	Q9P1W9	-0.82056
99879	Q2Q067	E7ERA6	-1.1176
99880	Q2Q067	Q8NHR9	-0.16898
99881	Q2Q067	Q3I5F7	-0.1769
99882	Q2Q067	A0PJZ3	-0.9897
99883	Q2Q067	O95861	-0.28327
99884	Q2Q067	Q13948	-0.79969
99885	Q2Q067	Q05682	-0.39261
99886	Q2Q067	Q9BWP8	-1.1889
99887	Q2Q067	Q0VDG4	-0.56029
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99889	Q2Q067	P62834	-0.39201
99890	Q2Q067	Q96QS1	-1.0693
99891	Q2Q067	A8MUP6	-1.0345
99892	Q2Q067	Q96S97	-1.0345
99893	Q2Q067	P56385	-0.25272
99894	Q2Q067	P18463	-1.1453
99895	Q2Q067	O00476	-0.84282
99896	Q2Q067	Q96KN2	-1.3455
99897	Q2Q067	P23469	-0.30625
99898	Q2Q067	Q5JVF3	-0.2698
99899	Q2Q067	Q86UK0	-1.5208
99900	Q2Q067	O75095	-0.33828
99901	Q2Q067	Q15846	-0.86292
99902	Q2Q067	Q7L0R7	-0.48451
99903	Q2Q067	Q9NPJ3	-0.056398
99904	Q2Q067	Q9NXL6	-0.95241
99905	Q2Q067	Q9UHW5	-0.97389
99906	Q2Q067	P50151	-0.63112
99907	Q2Q067	Q9Y6J3	-0.57228
99908	Q2Q067	Q9HB20	-0.58759
99909	Q2Q067	O43181	-0.214
99910	Q2Q067	Q8N5U1	-1.0345
99911	Q2Q067	O43166	-0.34856
99912	Q2Q067	Q9H190	-0.22731
99913	Q2Q067	Q9H3U7	-1.3159
99914	Q2Q067	Q17RR3	-1.0034
99915	Q2Q067	Q70Z35	-0.75082
99916	Q2Q067	Q9HBI0	-0.58584
99917	Q2Q067	Q15049	-0.2745
99918	Q2Q067	Q9P218	-1.1053
99919	Q2Q067	Q96B21	-1.0345
99920	Q2Q067	O14832	-0.21352
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99922	Q2Q067	P61566	-0.86704
99923	Q2Q067	P60008	-0.7093
99924	Q2Q067	Q9Y6S9	-1.046
99925	Q2Q067	O15118	-0.70894
99926	Q2Q067	P34982	-1.4701
99927	Q2Q067	Q7Z7H8	-0.14866
99928	Q2Q067	Q9NUA8	-0.11842
99929	Q2Q067	P62333	-0.29934
99930	Q2Q067	Q07864	-0.29717
99931	Q2Q067	P50281	-0.44009
99932	Q2Q067	P53778	-0.22741
99933	Q2Q067	Q93097	-0.93612
99934	Q2Q067	Q96H55	-0.52075
99935	Q2Q067	Q6UDR6	-0.90081
99936	Q2Q067	Q13268	-0.32361
99937	Q2Q067	Q12908	-0.87186
99938	Q2Q067	Q8NH93	-1.4096
99939	Q2Q067	P32298	-1.0327
99940	Q2Q067	Q502W6	-0.081674



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99943	Q2Q067	P22695	-0.096313
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99945	Q2Q067	P08034	-0.97725
99946	Q2Q067	P41271	-0.72543
99947	Q2Q067	P19224	-0.96179
99948	Q2Q067	Q9NUU7	-0.1026
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99951	Q2Q067	O60336	-0.37274
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99953	Q2Q067	Q5T3Y7	-0.023294
99954	Q2Q067	O95405	-0.19638
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99957	Q2Q067	O94885	-0.22738
99958	Q2Q067	Q07960	-0.37696
99959	Q2Q067	O15269	-0.40061
99960	Q2Q067	Q68D91	-0.40827
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99963	Q2Q067	P10745	-1.2534
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99966	Q2Q067	Q9Y664	-0.11525
99967	Q2Q067	Q5VW38	-1.0345
99968	Q2Q067	Q9UKI2	-0.61812
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99971	Q2Q067	Q8N4H0	-0.17078
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99973	Q2Q067	P26038	-0.23293
99974	Q2Q067	Q15334	-0.68724
99975	Q2Q067	Q8N573	-0.12132
99976	Q2Q067	Q95604	-1.1453
99977	Q2Q067	Q8WVX9	-1.2132
99978	Q2Q067	Q08493	-0.58388
99979	Q2Q067	P33908	-0.75334
99980	Q2Q067	Q16772	-0.2256
99981	Q2Q067	Q96E35	-0.47006
99982	Q2Q067	Q8WXI7	-1.1451
99983	Q2Q067	Q6UWE0	-0.22755
99984	Q2Q067	A0PJX8	-1.0345
99985	Q2Q067	Q99674	-1.0788
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99988	Q2Q067	Q14439	-1.6497
99989	Q2Q067	Q495Y7	-0.0538
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99994	Q2Q067	P58753	-0.22315
99995	Q2Q067	Q15822	-1.1387
99996	Q2Q067	Q9P2H5	-0.76972
99997	Q2Q067	P51677	-1.4745
99998	Q2Q067	Q92617	-0.77947
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100000	Q2Q067	Q96N68	-1.0345
100001	Q2Q067	Q13467	-0.46229
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100003	Q2Q067	O95965	-1.0953
100004	Q2Q067	P13232	-0.17447
100005	Q2Q067	Q9Y6K0	-0.56424
100006	Q2Q067	Q9Y2C9	-0.7715
100007	Q2Q067	P16233	-0.8291
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100009	Q2Q067	Q86UQ4	-1.4923
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100012	Q2Q067	O76070	-0.26997
100013	Q2Q067	P55899	-1.1062
100014	Q2Q067	Q96E17	-1.0593
100015	Q2Q067	P28288	-0.73995
100016	Q2Q067	P13747	-1.1678

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100018	Q2Q067	E9PQX1	-0.22593
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100023	Q2Q067	P01563	-0.38005
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100025	Q2Q067	P55011	-1.0082
100026	Q2Q067	Q6UX72	-0.92843
100027	Q2Q067	Q12866	-0.78919
100028	Q2Q067	Q96KS9	-0.17635
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100034	Q2Q067	P24347	-1.5594
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100108	Q2Q067	O94900	-0.22092
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100127	Q2Q067	P0C025	-0.40827
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100156	Q2Q067	P50897	-0.35333
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100160	Q2Q067	P13521	-0.68428
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100163	Q2Q067	Q13465	-0.071059
100164	Q2Q067	Q8NCS4	-1.0345
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100166	Q2Q067	Q9NZV5	-0.41954
100167	Q2Q067	Q17RF5	-0.98666
100168	Q2Q067	Q8NBP0	-0.22735

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100170	Q2Q067	P08218	-1.5202
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100176	Q2Q067	Q8NGA5	-1.2565
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100179	Q2Q067	Q8WUA4	-0.22739
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100181	Q2Q067	Q86WU2	-0.14895
100182	Q2Q067	Q96B45	-0.027031
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100184	Q2Q067	P27105	-0.25138
100185	Q2Q067	I3L273	-0.26466
100186	Q2Q067	O75808	-0.8081
100187	Q2Q067	Q5R3K3	-1.0345
100188	Q2Q067	Q5T0W9	-0.012763
100189	Q2Q067	Q6NT55	-0.8821
100190	Q2Q067	O14764	-1.1643
100191	Q2Q067	Q96HV5	-1.0345
100192	Q2Q067	Q12778	-0.31681
100193	Q2Q067	Q9BQI7	-1.1372
100194	Q2Q067	Q8NBP5	-1.1451
100195	Q2Q067	Q9H0Z9	-0.29037
100196	Q2Q067	Q9NVV0	-1.017
100197	Q2Q067	Q8IYB7	-0.14758
100198	Q2Q067	Q9H2A7	-1.3811
100199	Q2Q067	P61812	-0.22741
100200	Q2Q067	Q9Y490	-0.22765
100201	Q2Q067	O75146	-0.21418
100202	Q2Q067	O75604	-0.29581
100203	Q2Q067	P13765	-1.1385
100204	Q2Q067	Q8IVA1	-0.5951
100205	Q2Q067	Q9NQS5	-1.4504
100206	Q2Q067	A6NKC9	-0.22741
100207	Q2Q067	Q96RU8	-0.22828
100208	Q2Q067	Q9Y2D2	-0.6791
100209	Q2Q067	Q9H0R3	-1.0345
100210	Q2Q067	Q5HYI8	-1.2498
100211	Q2Q067	Q9BZL6	-0.39619
100212	Q2Q067	Q9UHR4	-0.2274
100213	Q2Q067	Q8NGE1	-1.4096
100214	Q2Q067	Q6UW63	-0.31962
100215	Q2Q067	P49441	-0.55515
100216	Q2Q067	P54687	-0.17547
100217	Q2Q067	O14830	-0.22239
100218	Q2Q067	P46109	-0.22741
100219	Q2Q067	Q8WVE7	-1.0345
100220	Q2Q067	Q9NP70	-1.148
100221	Q2Q067	P03971	-0.58448
100222	Q2Q067	Q8WUD1	-0.95353
100223	Q2Q067	Q86T23	-0.065811
100224	Q2Q067	Q07000	-1.1453
100225	Q2Q067	Q9H3E2	-0.39488
100226	Q2Q067	Q5JRX3	-0.25865
100227	Q2Q067	Q9NSY0	-0.81603
100228	Q2Q067	Q8IXM6	-0.43392
100229	Q2Q067	Q15431	-0.20643
100230	Q2Q067	Q9BS92	-0.11974
100231	Q2Q067	A8MW95	-0.22873
100232	Q2Q067	O00258	-0.54503
100233	Q2Q067	Q9HB14	-1.2903
100234	Q2Q067	O75348	-0.46605
100235	Q2Q067	Q01954	-0.22424
100236	Q2Q067	Q9NRD8	-0.87647
100237	Q2Q067	Q13057	-0.30929
100238	Q2Q067	Q6UY18	-1.0345
100239	Q2Q067	Q5XG99	-1.0097
100240	Q2Q067	Q2PZI1	-1.0345
100241	Q2Q067	Q07699	-0.90445
100242	Q2Q067	Q8N6W0	-0.44048
100243	Q2Q067	P59773	-1.0345
100244	Q2Q067	Q14123	-0.32799

100245	Q2Q067	Q9NW64	-0.63963
100246	Q2Q067	P47888	-1.4096
100247	Q2Q067	A6NJI9	-0.19868
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100249	Q2Q067	Q3MUJ2	-1.1743
100250	Q2Q067	Q8N6Y2	-0.91619
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100252	Q2Q067	Q6P087	-0.4138
100253	Q2Q067	Q96E39	-0.52465
100254	Q2Q067	Q70JA7	-0.61626
100255	Q2Q067	Q8N8Z3	-0.090179
100256	Q2Q067	Q14BN4	-1.0457
100257	Q2Q067	P15088	-0.79783
100258	Q2Q067	Q86W92	-0.7143
100259	Q2Q067	Q9BWW9	-1.0751
100260	Q2Q067	O00764	-0.24711
100261	Q2Q067	Q12772	-0.22734
100262	Q2Q067	O14960	-0.95414
100263	Q2Q067	O15225	-0.24416
100264	Q2Q067	P20160	-0.85082
100265	Q2Q067	Q5KSL6	-1.078
100266	Q2Q067	Q9Y6N7	-0.64332
100267	Q2Q067	Q86W42	-0.32147
100268	Q2Q067	O00254	-1.1638
100269	Q2Q067	Q9UQ49	-0.49943
100270	Q2Q067	Q9Y5I0	-1.3679
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100273	Q2Q067	Q13886	-0.2243
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100275	Q2Q067	Q8WXX4	-0.61006
100276	Q2Q067	P63092	-0.72022
100277	Q2Q067	P11686	-0.17395
100278	Q2Q067	Q9NP50	-0.39592
100279	Q2Q067	Q8NGE3	-1.4096
100280	Q2Q067	Q9NX14	-0.60556
100281	Q2Q067	Q9C0C7	-0.22743
100282	Q2Q067	Q8N5C7	-0.17617
100283	Q2Q067	A4D174	-0.29113
100284	Q2Q067	A6NN79	-1.0345
100285	Q2Q067	Q13702	-0.31372
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100287	Q2Q067	Q15916	-0.21934
100288	Q2Q067	P20848	-0.78629
100289	Q2Q067	O76041	-0.22744
100290	Q2Q067	Q96A84	-0.94532
100291	Q2Q067	Q9BU19	-0.17059
100292	Q2Q067	Q6ZWK4	-1.0345
100293	Q2Q067	Q8N6F8	-0.098924
100294	Q2Q067	Q01484	-0.22745
100295	Q2Q067	P47890	-1.4096
100296	Q2Q067	Q5W0B1	-0.48451
100297	Q2Q067	Q8IVB4	-1.0869
100298	Q2Q067	A6NM76	-1.4096
100299	Q2Q067	Q9UPE1	-1.2714
100300	Q2Q067	Q6ZVW7	-0.041744
100301	Q2Q067	Q00325	-0.96977
100302	Q2Q067	Q9H2H0	-0.16972
100303	Q2Q067	Q14789	-0.23885
100304	Q2Q067	Q8TD10	-0.17451
100305	Q2Q067	A6NMA1	-0.12206
100306	Q2Q067	P42857	-0.28889
100307	Q2Q067	Q8NA96	-0.06517
100308	Q2Q067	Q96S38	-0.9196
100309	Q2Q067	P54802	-0.36139
100310	Q2Q067	Q9BS91	-0.84817
100311	Q2Q067	Q8TD07	-0.55631
100312	Q2Q067	Q13258	-0.872
100313	Q2Q067	Q07002	-1.1608
100314	Q2Q067	Q3MJ16	-0.46037
100315	Q2Q067	Q9C0H9	-0.071378
100316	Q2Q067	Q9P2X3	-0.2366
100317	Q2Q067	Q86VH5	-1.0345
100318	Q2Q067	O75110	-1.0845
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100322	Q2Q067	Q9H209	-1.4096
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100326	Q2Q067	Q8N0Z8	-0.32489
100327	Q2Q067	Q9UHE5	-1.0958
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100331	Q2Q067	P18075	-0.22741
100332	Q2Q067	Q96JX3	-0.76787
100333	Q2Q067	P30040	-0.14339
100334	Q2Q067	P49810	-0.22169
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100336	Q2Q067	P61769	-0.50449
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100338	Q2Q067	Q5VXH4	-0.19475
100339	Q2Q067	Q99650	-0.8207
100340	Q2Q067	Q8N6V9	-0.055311
100341	Q2Q067	A0AVI2	-1.0345
100342	Q2Q067	Q8NE35	-0.86536
100343	Q2Q067	Q4G0N8	-1.2683
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100345	Q2Q067	O43543	-0.18578
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100347	Q2Q067	O94875	-0.22815
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100349	Q2Q067	Q9Y580	-0.92668
100350	Q2Q067	Q9Y4J8	-0.22715
100351	Q2Q067	O15259	-0.22741
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100354	Q2Q067	P49821	-0.3651
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100356	Q2Q067	Q9Y5U5	-1.6969
100357	Q2Q067	Q30201	-0.79348
100358	Q2Q067	Q8IY50	-1.062
100359	Q2Q067	A8MXD5	-0.55792
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100365	Q2Q067	P25067	-1.2065
100366	Q2Q067	P19113	-0.53061
100367	Q2Q067	Q8NGU4	-1.4096
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100369	Q2Q067	Q96PZ7	-1.0345
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100375	Q2Q067	Q309B1	-0.22197
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100406	Q2Q067	Q9HAS0	-0.3731
100407	Q2Q067	Q5TA89	-0.22702
100408	Q2Q067	Q6ZMB5	-1.0345
100409	Q2Q067	P01903	-0.85514
100410	Q2Q067	P15309	-1.468
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100412	Q2Q067	P11766	-0.34574
100413	Q2Q067	Q5T2E6	-1.0345
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100415	Q2Q067	P05408	-0.58501
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100418	Q2Q067	A6NFE3	-0.62209
100419	Q2Q067	A2VCK2	-0.59947
100420	Q2Q067	P33121	-0.83009
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100423	Q2Q067	Q9NP60	-1.2478
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100458	Q2Q067	Q99928	-0.88961
100459	Q2Q067	Q9UJH6	-0.7261
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100468	Q2Q067	Q9HBV2	-1.0345
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100484	Q2Q067	O94766	-0.69967
100485	Q2Q067	Q7RTN6	-0.38773
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100513	Q2Q067	Q8N653	-0.22729
100514	Q2Q067	Q8NGX6	-1.4096
100515	Q2Q067	O75881	-0.66325
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100517	Q2Q067	O43933	-0.24274
100518	Q2Q067	Q8WV19	-0.73764
100519	Q2Q067	Q9NUG4	-0.24416
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100521	Q2Q067	Q9UGF6	-1.4096
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100528	Q2Q067	Q8NFR3	-0.47552
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100531	Q2Q067	P15056	-0.41678
100532	Q2Q067	P23458	-0.6757
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100534	Q2Q067	Q96R54	-1.4096
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100536	Q2Q067	A8MZ97	-1.0345
100537	Q2Q067	P20916	-1.0386
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100541	Q2Q067	Q03169	-0.75006
100542	Q2Q067	Q9NW82	-0.22741
100543	Q2Q067	Q9UIG5	-0.164
100544	Q2Q067	Q96C55	-0.23772
100545	Q2Q067	Q8N6C8	-1.2156
100546	Q2Q067	A0FGR9	-1.1634
100547	Q2Q067	P00740	-1.2747
100548	Q2Q067	Q9Y478	-0.186



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100552	Q2Q067	Q9UNG2	-0.99886
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100554	Q2Q067	Q9UGC6	-0.49084
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100556	Q2Q067	Q9P2E9	-0.74772
100557	Q2Q067	Q71RC2	-0.80897
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100561	Q2Q067	Q6DN90	-0.21883
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100563	Q2Q067	Q5FYA8	-0.81882
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100565	Q2Q067	Q96KG7	-1.0053
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100574	Q2Q067	Q8WZ94	-1.4096
100575	Q2Q067	Q8IUB3	-0.97312
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100577	Q2Q067	Q5TA82	-0.37794
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100580	Q2Q067	P30838	-0.25281
100581	Q2Q067	Q7LGC8	-0.60335
100582	Q2Q067	Q8IW75	-0.72415
100583	Q2Q067	Q9UQM7	-0.49719
100584	Q2Q067	P52952	-0.27644
100585	Q2Q067	Q9UM54	-0.07614
100586	Q2Q067	O00429	-0.64963
100587	Q2Q067	Q6UXK2	-1.1886
100588	Q2Q067	Q5T089	-0.13634
100589	Q2Q067	Q5SW24	-0.11689
100590	Q2Q067	P60852	-1.5267
100591	Q2Q067	Q5W064	-0.43391
100592	Q2Q067	Q8TBE9	-0.24229
100593	Q2Q067	P53701	-0.46135
100594	Q2Q067	P05538	-0.80647
100595	Q2Q067	Q9HAT0	-0.56189
100596	Q2Q067	Q9BX10	-1.0643
100597	Q2Q067	O00409	-0.31352
100598	Q2Q067	Q96T66	-0.35271
100599	Q2Q067	A6NHT5	-0.22858
100600	Q2Q067	P01148	-1.0798
100601	Q2Q067	Q9H649	-0.38719
100602	Q2Q067	Q05193	-0.42684
100603	Q2Q067	O95072	-0.31129
100604	Q2Q067	P34130	-0.82969
100605	Q2Q067	P25686	-0.22876
100606	Q2Q067	Q7Z5L3	-1.0984
100607	Q2Q067	O94898	-0.95288
100608	Q2Q067	Q49AQ9	-0.33378
100609	Q2Q067	Q9BU79	-1.0345
100610	Q2Q067	Q9P291	-1.0345
100611	Q2Q067	P15018	-0.38921
100612	Q2Q067	P04181	-0.16091
100613	Q2Q067	Q8NBS9	-0.26998
100614	Q2Q067	Q6Y1H2	-0.59689
100615	Q2Q067	O95863	-0.22416
100616	Q2Q067	Q96C03	-0.20216
100617	Q2Q067	Q8TE49	-0.53174
100618	Q2Q067	Q9UHY1	-0.22741
100619	Q2Q067	P30499	-1.2066
100620	Q2Q067	P49447	-0.99842
100621	Q2Q067	Q9HBI6	-1.1977
100622	Q2Q067	Q9UKV5	-0.30546
100623	Q2Q067	Q9GZZ7	-1.1782
100624	Q2Q067	A8K855	-0.45603

100625	Q2Q067	Q9HBR0	-1.1869
100626	Q2Q067	Q6YN16	-0.86085
100627	Q2Q067	A6NC78	-0.40653
100628	Q2Q067	Q96QK8	-1.0345
100629	Q2Q067	Q6WRI0	-1.1495
100630	Q2Q067	Q5T1J6	-0.089245
100631	Q2Q067	Q969I6	-1.2482
100632	Q2Q067	P16157	-0.22744
100633	Q2Q067	Q9UKJ8	-1.3963
100634	Q2Q067	Q9H6D3	-1.0345
100635	Q2Q067	Q00169	-0.78148
100636	Q2Q067	Q15646	-0.22224
100637	Q2Q067	Q58FG1	-0.66086
100638	Q2Q067	Q8NEM8	-0.50501
100639	Q2Q067	O96024	-0.93117
100640	Q2Q067	Q8IV61	-0.74239
100641	Q2Q067	O76087	-0.24416
100642	Q2Q067	Q07820	-0.22739
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100644	Q2Q067	O14966	-1.2439
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100646	Q2Q067	Q2L4Q9	-1.5202
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100649	Q2Q067	P04434	-1.1115
100650	Q2Q067	P42127	-0.98586
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100653	Q2Q067	P52333	-0.41556
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100655	Q2Q067	Q8NCG5	-0.77476
100656	Q2Q067	O14908	-0.22738
100657	Q2Q067	Q9HA82	-0.24263
100658	Q2Q067	Q16609	-0.77379
100659	Q2Q067	Q15760	-1.6361
100660	Q2Q067	Q8NH95	-1.4096
100661	Q2Q067	P0C7W6	-0.15831
100662	Q2Q067	Q5TCS8	-1.0499
100663	Q2Q067	Q86X10	-0.86026
100664	Q2Q067	O95772	-0.99011
100665	Q2Q067	Q96L58	-0.65924
100666	Q2Q067	Q9GZM5	-0.89367
100667	Q2Q067	O14735	-0.75001
100668	Q2Q067	Q8TDD5	-1.0397
100669	Q2Q067	Q9UBE0	-0.22401
100670	Q2Q067	O75063	-1.3736
100671	Q2Q067	Q9NVI7	-1.2559
100672	Q2Q067	P00387	-0.34527
100673	Q2Q067	Q8TAE7	-0.53941
100674	Q2Q067	A8MWS1	-0.98666
100675	Q2Q067	Q9BT22	-0.96936
100676	Q2Q067	Q9UJA2	-0.6866
100677	Q2Q067	Q8NH01	-1.4096
100678	Q2Q067	Q8NCM2	-1.0413
100679	Q2Q067	A2RU67	-1.0345
100680	Q2Q067	Q9Y666	-1.2532
100681	Q2Q067	Q6P2N6	-1.1634
100682	Q2Q067	Q9UGM3	-0.43319
100683	Q2Q067	P43403	-0.52958
100684	Q2Q067	Q92932	-1.0926
100685	Q2Q067	Q9H819	-1.0544
100686	Q2Q067	Q9BZF3	-0.32336
100687	Q2Q067	Q9H1U9	-0.86765
100688	Q2Q067	P31751	-0.17089
100689	Q2Q067	Q9BQS7	-1.3081
100690	Q2Q067	P0C629	-1.4096
100691	Q2Q067	Q13164	-0.22741
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100693	Q2Q067	Q9H8M1	-0.33494
100694	Q2Q067	Q8IXF9	-1.0472
100695	Q2Q067	Q96P53	-0.43755
100696	Q2Q067	Q9Y289	-0.95705
100697	Q2Q067	Q96AC6	-0.71913
100698	Q2Q067	P10145	-0.59524
100699	Q2Q067	Q5SVS4	-0.70917
100700	Q2Q067	C9J202	-0.46685

100701	Q2Q067	P10620	-0.18022
100702	Q2Q067	Q5DT21	-0.29088
100703	Q2Q067	P43365	-0.24416
100704	Q2Q067	Q9Y2I6	-0.18228
100705	Q2Q067	Q96JY0	-0.21031
100706	Q2Q067	Q01968	-0.36129
100707	Q2Q067	Q86X45	-0.37014
100708	Q2Q067	P13805	-0.21722
100709	Q2Q067	Q6PIV7	-0.86765
100710	Q2Q067	Q86YR6	-0.65765
100711	Q2Q067	P35453	-0.22735
100712	Q2Q067	Q6UWY0	-0.83456
100713	Q2Q067	Q8IVL1	-0.69911
100714	Q2Q067	P28360	-0.18977
100715	Q2Q067	Q9BX73	-1.0345
100716	Q2Q067	Q8WV93	-0.73781
100717	Q2Q067	Q9P055	-0.91163
100718	Q2Q067	Q92772	-0.70866
100719	Q2Q067	P24723	-0.92711
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100721	Q2Q067	Q43572	-0.25706
100722	Q2Q067	Q96A23	-0.22714
100723	Q2Q067	Q8NE31	-0.031872
100724	Q2Q067	Q6XPS3	-1.0636
100725	Q2Q067	Q6NX49	-0.085533
100726	Q2Q067	O75147	-0.32264
100727	Q2Q067	Q9BUZ4	-0.22736
100728	Q2Q067	Q5VST6	-0.95044
100729	Q2Q067	Q9HA64	-0.67195
100730	Q2Q067	P55273	-0.2274
100731	Q2Q067	P04196	-0.34578
100732	Q2Q067	Q8N5I2	-0.23898
100733	Q2Q067	P03956	-1.3042
100734	Q2Q067	P07332	-0.78054
100735	Q2Q067	P86790	-0.69118
100736	Q2Q067	O94972	-0.22741
100737	Q2Q067	Q8NA56	-0.065054
100738	Q2Q067	Q96K21	-0.48451
100739	Q2Q067	Q9BYG8	-0.044815
100740	Q2Q067	P0CG39	-0.4135
100741	Q2Q067	P16188	-1.0994
100742	Q2Q067	P04114	-0.34905
100743	Q2Q067	P10588	-0.23623
100744	Q2Q067	Q12934	-0.39268
100745	Q2Q067	Q9UHG3	-0.6458
100746	Q2Q067	P04206	-1.1115
100747	Q2Q067	Q7L9B9	-0.31399
100748	Q2Q067	Q16799	-0.64268
100749	Q2Q067	O75460	-0.52053
100750	Q2Q067	Q13043	-0.30256
100751	Q2Q067	Q8NFZ3	-0.57373
100752	Q2Q067	Q9NPA0	-0.7451
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100754	Q2Q067	Q9GZN6	-1.1659
100755	Q2Q067	Q9NW15	-1.2095
100756	Q2Q067	Q9H1M4	-0.84743
100757	Q2Q067	Q14201	-0.28847
100758	Q2Q067	Q8N7S2	-0.57939
100759	Q2Q067	O75223	-0.17874
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100761	Q2Q067	Q15131	-0.63625
100762	Q2Q067	Q99217	-0.72388
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100766	Q2Q067	Q9NXH8	-1.5411
100767	Q2Q067	O60519	-0.15919
100768	Q2Q067	P51575	-0.5801
100769	Q2Q067	Q15041	-0.98881
100770	Q2Q067	Q8NH67	-1.4096
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100775	Q2Q067	O75445	-0.93356
100776	Q2Q067	P18206	-0.21167

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100778	Q2Q067	Q96BZ4	-0.89867
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100780	Q2Q067	Q9Y2F5	-0.11321
100781	Q2Q067	Q12766	-0.22736
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100783	Q2Q067	P15498	-0.22741
100784	Q2Q067	P0C645	-1.4096
100785	Q2Q067	P30488	-1.1453
100786	Q2Q067	Q6NUN0	-1.0842
100787	Q2Q067	O15514	-0.16412
100788	Q2Q067	Q9Y2B0	-0.19785
100789	Q2Q067	P0CL85	-0.054655
100790	Q2Q067	P55010	-0.37578
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100792	Q2Q067	Q9ULB5	-1.2844
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100794	Q2Q067	P02778	-0.88502
100795	Q2Q067	Q9H2D6	-0.21943
100796	Q2Q067	Q693B1	-0.13755
100797	Q2Q067	Q9BQS8	-0.4049
100798	Q2Q067	P00488	-0.57523
100799	Q2Q067	P05164	-0.22493
100800	Q2Q067	P09758	-0.96518
100801	Q2Q067	O15144	-0.16559
100802	Q2Q067	P58062	-0.29478
100803	Q2Q067	O75354	-1.2376
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100807	Q2Q067	Q495B1	-0.57228
100808	Q2Q067	Q6ZWT7	-0.86551
100809	Q2Q067	Q68CL5	-0.1753
100810	Q2Q067	Q86X40	-0.22806
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100815	Q2Q067	O75438	-0.5457
100816	Q2Q067	A9YTO3	-0.3997
100817	Q2Q067	Q9H628	-1.4198
100818	Q2Q067	Q5H9B9	-0.0075954
100819	Q2Q067	Q8IZ83	-0.65271
100820	Q2Q067	Q9BZ76	-2.0113
100821	Q2Q067	Q8TC99	-0.23386
100822	Q2Q067	Q99726	-0.91588
100823	Q2Q067	P08319	-0.30654
100824	Q2Q067	P20138	-1.5171
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100829	Q2Q067	O94905	-0.25174
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100856	Q2Q067	Q96G27	-0.23565
100857	Q2Q067	O00468	-0.54528
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100868	Q2Q067	Q13797	-0.96231
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100979	Q2Q067	P25090	-1.6654
100980	Q2Q067	P31930	-0.53414
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100982	Q2Q067	Q13505	-0.64419
100983	Q2Q067	Q96P15	-0.12664
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100985	Q2Q067	Q03135	-0.22672
100986	Q2Q067	Q9H496	-0.37256
100987	Q2Q067	Q8TDU5	-1.4199
100988	Q2Q067	Q504Y3	-0.48451
100989	Q2Q067	O00244	-0.4061
100990	Q2Q067	P42694	-0.62958
100991	Q2Q067	A6NK44	-0.075564
100992	Q2Q067	Q9UPZ6	-1.6912
100993	Q2Q067	Q9UKM9	-0.46143
100994	Q2Q067	A6NFK2	-0.0061184
100995	Q2Q067	Q8NDG6	-0.63428
100996	Q2Q067	Q7Z6Z6	-0.51309
100997	Q2Q067	B4DS77	-1.0633
100998	Q2Q067	P18545	-0.33195
100999	Q2Q067	Q6ZVS7	-0.17926
101000	Q2Q067	P20648	-1.2362
101001	Q2Q067	P13473	-0.87801
101002	Q2Q067	Q5VUB5	-1.0345
101003	Q2Q067	P30626	-0.34789
101004	Q2Q067	Q9BZ23	-0.45773

101005	Q2Q067	Q9UHD2	-0.22741
101006	Q2Q067	Q8TEW0	-0.2262
101007	Q2Q067	O43837	-0.11315
101008	Q2Q067	Q9NY35	-1.054
101009	Q2Q067	O15090	-0.22337
101010	Q2Q067	P0DKX4	-0.20851
101011	Q2Q067	Q7Z5L4	-0.78608
101012	Q2Q067	Q9H5V7	-0.22858
101013	Q2Q067	Q17RG1	-0.16072
101014	Q2Q067	P37840	-0.21561
101015	Q2Q067	O60397	-0.36866
101016	Q2Q067	P06681	-1.5011
101017	Q2Q067	Q8N7C0	-1.3079
101018	Q2Q067	Q8N878	-0.3932
101019	Q2Q067	Q8N752	-1.1546
101020	Q2Q067	Q8WY64	-0.2361
101021	Q2Q067	Q8N414	-1.0345
101022	Q2Q067	Q86UR1	-0.22738
101023	Q2Q067	P48735	-0.15567
101024	Q2Q067	Q9UPX0	-1.1634
101025	Q2Q067	Q96AX1	-0.20516
101026	Q2Q067	Q6PIV2	-0.38017
101027	Q2Q067	P07686	-0.34384
101028	Q2Q067	Q8TCG5	-0.92613
101029	Q2Q067	P15882	-0.86244
101030	Q2Q067	O75467	-0.085533
101031	Q2Q067	O60603	-0.24874
101032	Q2Q067	Q95169	-0.52629
101033	Q2Q067	Q6N069	-0.22329
101034	Q2Q067	Q9ULQ1	-0.62717
101035	Q2Q067	P29034	-0.39687
101036	Q2Q067	Q8WWA0	-1.2747
101037	Q2Q067	Q8IVH4	-0.97363
101038	Q2Q067	P12111	-0.9146
101039	Q2Q067	Q5VW00	-0.22736
101040	Q2Q067	P51124	-1.34
101041	Q2Q067	Q8WTQ1	-0.94775
101042	Q2Q067	P13224	-0.70658
101043	Q2Q067	Q99501	-0.25156
101044	Q2Q067	Q8WW27	-0.52174
101045	Q2Q067	Q9Y284	-1.0345
101046	Q2Q067	A6NMS3	-1.4096
101047	Q2Q067	Q9UBU2	-1.1326
101048	Q2Q067	P14621	-0.14211
101049	Q2Q067	Q8NB59	-0.90721
101050	Q2Q067	Q8NEN9	-0.40674
101051	Q2Q067	Q7Z769	-1.0345
101052	Q2Q067	Q86UY6	-0.42319
101053	Q2Q067	Q5XKP0	-0.21265
101054	Q2Q067	P33402	-0.75525
101055	Q2Q067	P30456	-0.98258
101056	Q2Q067	Q86UE8	-0.22741
101057	Q2Q067	Q9H1U4	-0.95771
101058	Q2Q067	P43007	-0.56414
101059	Q2Q067	Q96PQ7	-0.21785
101060	Q2Q067	Q6ZT89	-0.85935
101061	Q2Q067	Q6P4Q7	-1.3833
101062	Q2Q067	Q2M3G4	-0.26909
101063	Q2Q067	P59089	-0.18142
101064	Q2Q067	Q8NBF1	-0.2272
101065	Q2Q067	Q9BXJ0	-1.0482
101066	Q2Q067	Q8NEJ0	-0.52602
101067	Q2Q067	Q96IX5	-0.84145
101068	Q2Q067	Q9UIK4	-0.9641
101069	Q2Q067	Q6UX04	-0.047454
101070	Q2Q067	Q8NGC1	-1.4096
101071	Q2Q067	Q15814	-0.21284
101072	Q2Q067	A8MU46	-0.22846
101073	Q2Q067	P31639	-0.87173
101074	Q2Q067	A6NGE7	-0.4871
101075	Q2Q067	Q13061	-0.90309
101076	Q2Q067	Q06278	-0.59961
101077	Q2Q067	Q9NRQ5	-0.77947
101078	Q2Q067	Q8WVD5	-0.22761
101079	Q2Q067	Q16553	-0.73143
101080	Q2Q067	Q9UBL9	-0.61535

101081	Q2Q067	Q9Y614	-0.21848
101082	Q2Q067	Q6DN03	-0.82527
101083	Q2Q067	Q96F46	-0.67192
101084	Q2Q067	Q95147	-0.92115
101085	Q2Q067	A6NL28	-0.27069
101086	Q2Q067	P23677	-1.0374
101087	Q2Q067	P78312	-0.33831
101088	Q2Q067	O75643	-0.22703
101089	Q2Q067	P41279	-0.51619
101090	Q2Q067	Q8NGY9	-1.2565
101091	Q2Q067	P30480	-1.1453
101092	Q2Q067	O00526	-1.2469
101093	Q2Q067	Q9NTG1	-1.2922
101094	Q2Q067	Q8TDB8	-0.9684
101095	Q2Q067	Q99685	-0.49147
101096	Q2Q067	Q96IZ6	-0.38719
101097	Q2Q067	Q9BWL3	-0.97153
101098	Q2Q067	Q6UB35	-0.71657
101099	Q2Q067	P47224	-0.51057
101100	Q2Q067	P07585	-0.5989
101101	Q2Q067	O60635	-1.1658
101102	Q2Q067	Q96EL1	-0.39013
101103	Q2Q067	O60673	-0.95117
101104	Q2Q067	Q5VT25	-0.47398
101105	Q2Q067	Q8NFA0	-0.84271
101106	Q2Q067	P35713	-0.27446
101107	Q2Q067	O15553	-0.22834
101108	Q2Q067	P78383	-1.0104
101109	Q2Q067	P43699	-0.27673
101110	Q2Q067	O95460	-0.40503
101111	Q2Q067	Q96BM1	-0.22741
101112	Q2Q067	P59044	-0.40825
101113	Q2Q067	O14668	-1.7558
101114	Q2Q067	Q6PIY2	-0.4509
101115	Q2Q067	Q16560	-0.51726
101116	Q2Q067	Q5VZI3	-1.0345
101117	Q2Q067	P0C6T2	-1.0345
101118	Q2Q067	Q9NYG2	-0.84677
101119	Q2Q067	Q6IMN6	-0.28147
101120	Q2Q067	Q9HB55	-0.84452
101121	Q2Q067	Q9P0P0	-0.58666
101122	Q2Q067	A6NIK2	-0.23119
101123	Q2Q067	P01710	-1.1115
101124	Q2Q067	Q8NI99	-1.4721
101125	Q2Q067	Q9P1Z0	-0.22473
101126	Q2Q067	O75094	-0.75939
101127	Q2Q067	Q9NRC6	-0.22895
101128	Q2Q067	Q8ND30	-0.66308
101129	Q2Q067	Q9BVX2	-0.84207
101130	Q2Q067	Q4ADV7	-1.0345
101131	Q2Q067	Q99784	-0.22735
101132	Q2Q067	C9J069	-0.034163
101133	Q2Q067	Q8IYR0	-0.13662
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101135	Q2Q067	P56915	-0.17633
101136	Q2Q067	O15156	-0.22122
101137	Q2Q067	Q5JT82	-0.22452
101138	Q2Q067	P38405	-1.0858
101139	Q2Q067	P09466	-1.1784
101140	Q2Q067	Q8NGY5	-1.4096
101141	Q2Q067	Q16555	-0.21247
101142	Q2Q067	Q16586	-0.80165
101143	Q2Q067	O00418	-0.95982
101144	Q2Q067	Q9UBV8	-0.22744
101145	Q2Q067	Q6PCD5	-0.22743
101146	Q2Q067	P18085	-0.46566
101147	Q2Q067	Q5VVM6	-0.032779
101148	Q2Q067	P56748	-0.83313
101149	Q2Q067	Q9Y466	-0.22877
101150	Q2Q067	Q7L7L0	-0.82527
101151	Q2Q067	Q9Y5F1	-1.4044
101152	Q2Q067	Q2TAA5	-0.98445
101153	Q2Q067	O14986	-0.31356
101154	Q2Q067	Q9H5Q3	-1.0345
101155	Q2Q067	P30273	-0.69714
101156	Q2Q067	Q9Y261	-0.30442



101157	Q2Q067	Q9UL12	-0.12112
101158	Q2Q067	Q29963	-1.1453
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101160	Q2Q067	O75386	-0.20146
101161	Q2Q067	Q96KP6	-0.41852
101162	Q2Q067	P46020	-0.17232
101163	Q2Q067	Q6IPX1	-1.4231
101164	Q2Q067	Q8NFI4	-0.22721
101165	Q2Q067	Q8IUUA0	-0.90081
101166	Q2Q067	O75995	-0.22739
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101168	Q2Q067	Q4LDR2	-1.0097
101169	Q2Q067	Q92737	-0.99079
101170	Q2Q067	Q14767	-1.0412
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101172	Q2Q067	Q9HA47	-0.74967
101173	Q2Q067	Q8N8J7	-1.0345
101174	Q2Q067	Q6VEQ5	-0.58024
101175	Q2Q067	P26640	-0.22044
101176	Q2Q067	P51854	-0.18804
101177	Q2Q067	O43557	-0.77375
101178	Q2Q067	Q8NGG3	-1.4096
101179	Q2Q067	P0DJI8	-0.65466
101180	Q2Q067	O60733	-0.2274
101181	Q2Q067	Q7Z6K3	-0.44064
101182	Q2Q067	P0C7P4	-0.68981
101183	Q2Q067	Q96LJ7	-0.87602
101184	Q2Q067	Q9UL19	-0.47404
101185	Q2Q067	Q9NZR4	-0.21802
101186	Q2Q067	Q5D862	-0.32201
101187	Q2Q067	P11487	-0.37997
101188	Q2Q067	Q8N6I4	-1.0345
101189	Q2Q067	P49759	-1.0566
101190	Q2Q067	P04431	-1.1115
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101192	Q2Q067	Q9P265	-0.22121
101193	Q2Q067	Q01628	-0.93343
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101207	Q2Q067	P35610	-0.89931
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101209	Q2Q067	Q6EMK4	-1.5853
101210	Q2Q067	Q9UPR0	-0.62166
101211	Q2Q067	Q8IYM1	-0.22604
101212	Q2Q067	O43187	-0.22739
101213	Q2Q067	Q6URH7	-0.15856
101214	Q2Q067	Q6ZNF0	-0.98036
101215	Q2Q067	O43586	-0.92003
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101217	Q2Q067	O15347	-0.82663
101218	Q2Q067	Q04912	-1.021
101219	Q2Q067	Q9BRL7	-0.6964
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101223	Q2Q067	Q5TEZ5	-0.24416
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101229	Q2Q067	Q9BXT2	-1.0948
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101237	Q2Q067	Q8TDV0	-1.4967
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101254	Q2Q067	O95800	-1.6361
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101262	Q2Q067	O94856	-1.0611
101263	Q2Q067	Q8N0U8	-1.0345
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101265	Q2Q067	P23219	-0.37877
101266	Q2Q067	P47755	-0.54543
101267	Q2Q067	Q16563	-1.044
101268	Q2Q067	Q9UQC9	-1.7154
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101277	Q2Q067	Q9P217	-0.48451
101278	Q2Q067	P21730	-1.333
101279	Q2Q067	P56178	-0.22119
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101282	Q2Q067	Q93033	-1.1869
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101296	Q2Q067	Q9NS62	-1.373
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101303	Q2Q067	Q5TC79	-0.22771
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101318	Q2Q067	O15550	-0.70577
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101327	Q2Q067	P01825	-1.1115
101328	Q2Q067	P57073	-0.307
101329	Q2Q067	Q96N64	-0.22013
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101345	Q2Q067	O95379	-0.1982
101346	Q2Q067	P11465	-0.79881
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101363	Q2Q067	Q5GLZ8	-0.48698
101364	Q2Q067	Q16881	-0.2237
101365	Q2Q067	Q9NQQ7	-1.062
101366	Q2Q067	P01705	-1.1115
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101369	Q2Q067	Q9Y2S2	-0.28111
101370	Q2Q067	P51449	-0.52972
101371	Q2Q067	Q8NHP1	-0.56541
101372	Q2Q067	P24386	-0.85649
101373	Q2Q067	P52757	-0.88486
101374	Q2Q067	Q8TE67	-0.22741
101375	Q2Q067	Q86VQ1	-0.20901
101376	Q2Q067	Q6ZS62	-1.0345
101377	Q2Q067	Q9BXT4	-0.61037
101378	Q2Q067	O00499	-0.22747
101379	Q2Q067	P0C8F1	-0.98233
101380	Q2Q067	Q6NUT2	-1.3834
101381	Q2Q067	P03973	-0.36033
101382	Q2Q067	Q8N0W4	-0.44672
101383	Q2Q067	Q12770	-0.32286
101384	Q2Q067	P62079	-1.0345

101385	Q2Q067	Q9HCU0	-0.77132
101386	Q2Q067	P25089	-1.5077
101387	Q2Q067	Q15735	-0.27528
101388	Q2Q067	A8MW99	-0.61702
101389	Q2Q067	Q7Z3D4	-1.0097
101390	Q2Q067	Q70EL3	-0.29807
101391	Q2Q067	Q13641	-1.1325
101392	Q2Q067	Q9NZV6	-0.25249
101393	Q2Q067	Q6UXH9	-1.1821
101394	Q2Q067	Q9UJ41	-0.22929
101395	Q2Q067	Q12923	-0.22741
101396	Q2Q067	Q63HQ2	-0.94904
101397	Q2Q067	O43665	-0.36543
101398	Q2Q067	Q92613	-0.30964
101399	Q2Q067	Q5D0E6	-0.58654
101400	Q2Q067	A6NFE2	-1.0345
101401	Q2Q067	Q99757	-0.24183
101402	Q2Q067	Q9HBH5	-0.91266
101403	Q2Q067	O00757	-0.035264
101404	Q2Q067	Q8N6R0	-0.46621
101405	Q2Q067	P61221	-0.55016
101406	Q2Q067	Q8WU43	-0.065333
101407	Q2Q067	P24557	-0.9853
101408	Q2Q067	Q8N4C0	-0.10724
101409	Q2Q067	Q6P589	-0.36492
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101411	Q2Q067	Q9H6K1	-0.24416
101412	Q2Q067	Q14162	-1.1211
101413	Q2Q067	Q8N8Y2	-0.18439
101414	Q2Q067	P00414	-0.59157
101415	Q2Q067	Q9Y6H3	-0.80013
101416	Q2Q067	P10809	-0.18572
101417	Q2Q067	Q06187	-0.22741
101418	Q2Q067	O14981	-0.50957
101419	Q2Q067	O15211	-0.90065
101420	Q2Q067	P00915	-0.18497
101421	Q2Q067	Q8TED1	-1.219
101422	Q2Q067	P16499	-0.6421
101423	Q2Q067	P16083	-0.024964
101424	Q2Q067	O75964	-0.25797
101425	Q2Q067	Q9UHI7	-0.43725
101426	Q2Q067	O14828	-0.59922
101427	Q2Q067	Q8N743	-1.1634
101428	Q2Q067	Q9Y283	-0.22742
101429	Q2Q067	Q6ZS81	-1.0345
101430	Q2Q067	O75596	-1.0613
101431	Q2Q067	A6NL26	-1.4096
101432	Q2Q067	Q6UQ28	-1.0392
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101434	Q2Q067	Q8N6N7	-0.63086
101435	Q2Q067	Q06136	-1.302
101436	Q2Q067	P11216	-0.18313
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101439	Q2Q067	O00515	-0.99175
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101441	Q2Q067	Q16663	-1.2394
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101444	Q2Q067	Q96PD4	-0.5682
101445	Q2Q067	P51864	-0.72119
101446	Q2Q067	P31267	-0.22111
101447	Q2Q067	P10075	-0.46727
101448	Q2Q067	Q5VW32	-0.52586
101449	Q2Q067	Q5SRR4	-0.98666
101450	Q2Q067	Q8NGL1	-1.4096
101451	Q2Q067	P16471	-1.1378
101452	Q2Q067	Q96L50	-0.40021
101453	Q2Q067	P13928	-0.35999
101454	Q2Q067	Q86XX4	-1.3246
101455	Q2Q067	P49448	-0.70614
101456	Q2Q067	Q95460	-1.5735
101457	Q2Q067	Q14117	-0.21532
101458	Q2Q067	Q8N4Y2	-0.26566
101459	Q2Q067	Q96GW7	-0.95295
101460	Q2Q067	P07205	-0.59069

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101465	Q2Q067	Q9P244	-0.88136
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101467	Q2Q067	Q93050	-0.17187
101468	Q2Q067	Q2Y0W8	-1.1259
101469	Q2Q067	O15534	-0.23225
101470	Q2Q067	Q9HC36	-0.1693
101471	Q2Q067	Q9Y5J1	-0.22741
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101474	Q2Q067	Q9BY32	-0.63426
101475	Q2Q067	Q14449	-0.34665
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101479	Q2Q067	Q96FL8	-1.0179
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101481	Q2Q067	O75123	-0.085533
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101484	Q2Q067	P04141	-0.15537
101485	Q2Q067	O95897	-0.98666
101486	Q2Q067	P13378	-0.20116
101487	Q2Q067	Q9H4Q4	-0.23688
101488	Q2Q067	Q6ICL3	-0.21265
101489	Q2Q067	Q15848	-0.25923
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101491	Q2Q067	Q6UXR4	-0.78629
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101494	Q2Q067	Q86Y78	-0.98666
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101496	Q2Q067	Q9HBF4	-0.21844
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101501	Q2Q067	Q8TD20	-0.71533
101502	Q2Q067	O75631	-0.90362
101503	Q2Q067	B1AL88	-1.0345
101504	Q2Q067	Q8IZ96	-1.0608
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101507	Q2Q067	Q9Y271	-1.4748
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101519	Q2Q067	P24390	-0.62863
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101524	Q2Q067	Q8N9W7	-1.0345
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101527	Q2Q067	P42858	-0.16072
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101529	Q2Q067	Q6NUT3	-1.062
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101556	Q2Q067	Q43300	-0.91133
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101563	Q2Q067	Q969J3	-0.15064
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101565	Q2Q067	Q96ET8	-1.0345
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101567	Q2Q067	Q9UJX0	-0.57359
101568	Q2Q067	Q9NX38	-0.37497
101569	Q2Q067	Q8NGS3	-1.4096
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101582	Q2Q067	P0C6C1	-0.22741
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101609	Q2Q067	Q96PD5	-1.0162
101610	Q2Q067	Q95471	-0.27021
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101613	Q2Q067	Q8NG95	-1.4096
101614	Q2Q067	O95936	-0.36741
101615	Q2Q067	A6NDU8	-0.0099976
101616	Q2Q067	Q6IEV9	-1.4096
101617	Q2Q067	A6NER3	-0.18742
101618	Q2Q067	P22612	-0.59524
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101622	Q2Q067	Q6IQ16	-0.22434
101623	Q2Q067	Q9BYE2	-1.472
101624	Q2Q067	Q14344	-0.518
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101627	Q2Q067	P34910	-0.98764
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101686	Q2Q067	Q9UBP4	-1.0017
101687	Q2Q067	Q9NR82	-1.2111
101688	Q2Q067	O14753	-0.29188

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101791	Q2Q067	Q96DZ7	-1.0345
101792	Q2Q067	Q96G30	-0.46903
101793	Q2Q067	Q8WVIO	-0.84904
101794	Q2Q067	Q08334	-0.75912
101795	Q2Q067	Q8N114	-0.55345
101796	Q2Q067	Q9Y2K9	-0.62737
101797	Q2Q067	Q6ZMQ8	-0.85641
101798	Q2Q067	Q9NQS3	-0.44844
101799	Q2Q067	O15320	-0.42103
101800	Q2Q067	Q8IXR9	-0.0056241
101801	Q2Q067	Q0VDE8	-0.44252
101802	Q2Q067	P36405	-0.22911
101803	Q2Q067	P98170	-0.22739
101804	Q2Q067	Q8WXG9	-0.74016
101805	Q2Q067	Q96PB1	-1.0345
101806	Q2Q067	Q9HA65	-1.4231
101807	Q2Q067	Q8NH60	-1.4096
101808	Q2Q067	Q8IU80	-1.0853
101809	Q2Q067	Q9NQ76	-0.54261
101810	Q2Q067	P01008	-0.24773
101811	Q2Q067	Q9UJV9	-0.55723
101812	Q2Q067	P52823	-0.68457
101813	Q2Q067	A6NLI5	-0.73178
101814	Q2Q067	P09681	-0.53194
101815	Q2Q067	Q15125	-0.90518
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101817	Q2Q067	Q6NSI1	-0.2274
101818	Q2Q067	O00754	-0.50876
101819	Q2Q067	Q9H0X9	-1.2446
101820	Q2Q067	Q8IWX8	-0.20294
101821	Q2Q067	Q6UXQ8	-0.98666
101822	Q2Q067	Q7Z333	-0.23219
101823	Q2Q067	Q9H2X6	-0.22741
101824	Q2Q067	Q9GZY0	-0.36436
101825	Q2Q067	P0C866	-0.027529
101826	Q2Q067	Q6UXS9	-0.22525
101827	Q2Q067	Q96PN6	-0.70804
101828	Q2Q067	Q9NYV9	-1.2647
101829	Q2Q067	Q16348	-0.51073
101830	Q2Q067	Q8NGH3	-1.4096
101831	Q2Q067	Q9BRP7	-0.39275
101832	Q2Q067	P35368	-0.86036
101833	Q2Q067	P14317	-0.22829
101834	Q2Q067	A5PLL1	-0.22741
101835	Q2Q067	Q9UI40	-1.1266
101836	Q2Q067	Q9BRR9	-1.1792
101837	Q2Q067	Q8WXD0	-1.2589
101838	Q2Q067	P39059	-1.7459
101839	Q2Q067	Q6PKH6	-1.5999
101840	Q2Q067	Q9BX93	-1.0766

101841	Q2Q067	A7MBM2	-0.80701
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101843	Q2Q067	Q9HCX3	-0.085533
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101845	Q2Q067	Q14956	-1.2164
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101848	Q2Q067	Q8N1W0	-1.0345
101849	Q2Q067	O15195	-0.30685
101850	Q2Q067	Q96F81	-0.88909
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101852	Q2Q067	Q7Z2T5	-0.65737
101853	Q2Q067	Q8NGB4	-1.4096
101854	Q2Q067	Q9ULK5	-0.4723
101855	Q2Q067	Q92565	-0.43258
101856	Q2Q067	Q6ZU64	-0.89369
101857	Q2Q067	P59537	-1.3875
101858	Q2Q067	Q9NRM7	-0.22741
101859	Q2Q067	Q7Z2K8	-0.83427
101860	Q2Q067	Q8NBJ9	-1.0725
101861	Q2Q067	A6NDI0	-0.73178
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101863	Q2Q067	Q6UWN0	-0.65821
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101876	Q2Q067	P14616	-1.5498
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101878	Q2Q067	P22897	-1.2019
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101880	Q2Q067	P01607	-1.1115
101881	Q2Q067	Q9HCC6	-0.22373
101882	Q2Q067	Q9H741	-0.98666
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101884	Q2Q067	Q66K14	-1.9108
101885	Q2Q067	Q86V25	-0.19834
101886	Q2Q067	P45985	-0.2285
101887	Q2Q067	Q9BRZ2	-0.60423
101888	Q2Q067	Q9UPQ4	-0.2273
101889	Q2Q067	Q9BQP9	-1.1714
101890	Q2Q067	Q9NVM1	-1.0345
101891	Q2Q067	A4FU28	-1.0345
101892	Q2Q067	A4D1S0	-1.0212
101893	Q2Q067	P04553	-0.82343
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101895	Q2Q067	P02708	-0.86446
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101897	Q2Q067	Q7Z7C7	-0.29862
101898	Q2Q067	P30039	-0.29577
101899	Q2Q067	P02100	-0.23015
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101901	Q2Q067	Q13066	-0.24416
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101903	Q2Q067	Q16627	-0.95067
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101905	Q2Q067	Q9UKS6	-0.22741
101906	Q2Q067	P00750	-0.499
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101908	Q2Q067	Q8N307	-0.92619
101909	Q2Q067	Q6XE24	-0.78558
101910	Q2Q067	Q9BYT9	-1.0594
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101914	Q2Q067	A2VDF0	-0.32541
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101916	Q2Q067	Q8N0X7	-0.13709

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101918	Q2Q067	Q92953	-1.05
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101921	Q2Q067	O15239	-0.58776
101922	Q2Q067	P02728	-0.24416
101923	Q2Q067	Q9H7Y0	-0.98666
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101925	Q2Q067	Q9UPW5	-0.061466
101926	Q2Q067	Q587J7	-0.35147
101927	Q2Q067	Q03014	-0.22777
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101929	Q2Q067	Q2I0M4	-0.4496
101930	Q2Q067	Q8N2E2	-0.98666
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101938	Q2Q067	Q9Y3I0	-0.64109
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101940	Q2Q067	O95197	-0.65587
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101943	Q2Q067	P01871	-1.6599
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101946	Q2Q067	A6NKC4	-1.1348
101947	Q2Q067	Q9ULE0	-0.045788
101948	Q2Q067	P34995	-1.5092
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101958	Q2Q067	Q13387	-0.21817
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101975	Q2Q067	Q8IW40	-0.19836
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101977	Q2Q067	P51828	-1.0644
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101979	Q2Q067	Q96MV1	-0.77947
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101982	Q2Q067	Q9ULI1	-0.22741
101983	Q2Q067	A6NFC9	-1.4096
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101987	Q2Q067	O14669	-1.7558
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101994	Q2Q067	P62166	-0.23186
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101996	Q2Q067	Q95214	-1.0345
101997	Q2Q067	Q9BV81	-1.0097
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102003	Q2Q067	Q96GE6	-0.45603
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102018	Q2Q067	P52566	-0.65716
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102043	Q2Q067	Q9BXJ7	-1.1731
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102176	Q2Q067	Q86UP0	-1.1264
102177	Q2Q067	Q9Y3B3	-0.61416
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102179	Q2Q067	Q96SQ9	-0.84452
102180	Q2Q067	P04437	-0.47581
102181	Q2Q067	Q9NWM0	-0.22008
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102183	Q2Q067	P0CF75	-0.030413
102184	Q2Q067	Q0ZGT2	-0.32198
102185	Q2Q067	Q9NUD9	-0.93617
102186	Q2Q067	Q96H78	-0.85935
102187	Q2Q067	Q04671	-0.32211
102188	Q2Q067	Q9UHA4	-0.25333
102189	Q2Q067	Q9HBU1	-0.22735
102190	Q2Q067	Q695T7	-1.2394
102191	Q2Q067	Q2Q1W2	-0.72316
102192	Q2Q067	Q14647	-0.61435
102193	Q2Q067	Q95747	-1.3229
102194	Q2Q067	B7ZBB8	-0.24981
102195	Q2Q067	Q6NT04	-0.16018
102196	Q2Q067	Q8TD22	-1.0006
102197	Q2Q067	P98179	-0.51581
102198	Q2Q067	Q96I85	-0.98666
102199	Q2Q067	Q2KHT4	-1.0846
102200	Q2Q067	Q9BUA6	-0.28191
102201	Q2Q067	Q15218	-1.4763
102202	Q2Q067	P05013	-0.73385
102203	Q2Q067	Q6UXD7	-1.049
102204	Q2Q067	Q9HBY0	-0.89305
102205	Q2Q067	B2RXH2	-0.14226
102206	Q2Q067	Q9Y2E4	-0.20421
102207	Q2Q067	Q7L2J0	-0.26058
102208	Q2Q067	Q9Y463	-0.32633
102209	Q2Q067	P56880	-0.85277
102210	Q2Q067	Q9NX78	-1.0345
102211	Q2Q067	Q9Y2H6	-0.53481
102212	Q2Q067	Q9NSY2	-0.46603
102213	Q2Q067	Q86SQ3	-1.5419
102214	Q2Q067	Q14165	-0.87374
102215	Q2Q067	P0C7N4	-1.0345
102216	Q2Q067	Q8TC12	-1.331
102217	Q2Q067	Q9UPW0	-0.42529
102218	Q2Q067	Q01459	-0.45385
102219	Q2Q067	Q8TEJ3	-0.48451
102220	Q2Q067	Q9NYK1	-0.65272

102221	Q2Q067	Q70EK9	-0.86859
102222	Q2Q067	Q96L96	-0.78182
102223	Q2Q067	B2RD01	-0.1381
102224	Q2Q067	Q15836	-0.22463
102225	Q2Q067	P58335	-1.1584
102226	Q2Q067	Q9BT04	-0.18713
102227	Q2Q067	P63316	-0.22548
102228	Q2Q067	Q86TI0	-1.0824
102229	Q2Q067	Q8NGC7	-1.4096
102230	Q2Q067	Q9NUV9	-0.21623
102231	Q2Q067	P51788	-0.92079
102232	Q2Q067	Q68G74	-0.22741
102233	Q2Q067	P01620	-1.1115
102234	Q2Q067	P60328	-0.27386
102235	Q2Q067	Q01151	-1.177
102236	Q2Q067	A6NF34	-1.09
102237	Q2Q067	Q9H0E7	-0.23728
102238	Q2Q067	Q9UGP8	-0.92278
102239	Q2Q067	Q8NBE8	-0.21069
102240	Q2Q067	Q155Q3	-0.22741
102241	Q2Q067	P05154	-0.61736
102242	Q2Q067	Q96SU4	-0.9261
102243	Q2Q067	Q9UHL0	-0.60927
102244	Q2Q067	Q15738	-1.0347
102245	Q2Q067	Q9BYU1	-0.33818
102246	Q2Q067	Q5MJ08	-0.063237
102247	Q2Q067	O95744	-0.29776
102248	Q2Q067	P51857	-0.22642
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102250	Q2Q067	Q15286	-0.67811
102251	Q2Q067	P52564	-0.22834
102252	Q2Q067	Q9Y6M4	-1.204
102253	Q2Q067	Q5MAI5	-0.96062
102254	Q2Q067	O75626	-0.15274
102255	Q2Q067	Q8N5C6	-0.46343
102256	Q2Q067	Q9BUV8	-0.24416
102257	Q2Q067	Q8TDI7	-1.0345
102258	Q2Q067	Q16695	-0.20905
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102261	Q2Q067	Q6IF00	-1.4096
102262	Q2Q067	O15258	-0.69851
102263	Q2Q067	Q8N8M0	-0.42319
102264	Q2Q067	O95672	-1.5748
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102266	Q2Q067	Q9BZ11	-1.4051
102267	Q2Q067	Q5TGZ0	-0.69747
102268	Q2Q067	Q9NPH0	-0.80377
102269	Q2Q067	Q6S8J7	-0.22713
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102271	Q2Q067	Q8NGM9	-1.4096
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102274	Q2Q067	Q9C0J9	-0.22628
102275	Q2Q067	Q3LIE5	-0.39621
102276	Q2Q067	Q86YV0	-0.59115
102277	Q2Q067	P47893	-1.4862
102278	Q2Q067	P09326	-0.6606
102279	Q2Q067	P05156	-1.5363
102280	Q2Q067	A6NKB5	-1.0345
102281	Q2Q067	Q5VWK5	-0.61241
102282	Q2Q067	P26022	-0.93753
102283	Q2Q067	P06318	-1.1115
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102288	Q2Q067	Q3ZCQ3	-1.0345
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102291	Q2Q067	Q8TDF5	-1.2459
102292	Q2Q067	Q96SL1	-1.1853
102293	Q2Q067	P80422	-0.98652
102294	Q2Q067	O60404	-1.4096
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102296	Q2Q067	Q8WXA3	-0.22724

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102298	Q2Q067	P39900	-1.3811
102299	Q2Q067	O95497	-0.81165
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102301	Q2Q067	P06311	-1.1115
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102303	Q2Q067	A6NFA0	-1.0345
102304	Q2Q067	P52701	-0.13326
102305	Q2Q067	Q8TE82	-0.32909
102306	Q2Q067	O14569	-1.0481
102307	Q2Q067	Q9H9L4	-0.30384
102308	Q2Q067	Q71RH2	-0.99456
102309	Q2Q067	A6NC86	-0.96328
102310	Q2Q067	Q5VYJ5	-1.0345
102311	Q2Q067	Q9BYH1	-1.1118
102312	Q2Q067	Q9UGQ2	-0.73309
102313	Q2Q067	Q96IQ9	-0.22736
102314	Q2Q067	P48039	-1.4047
102315	Q2Q067	Q9GZU5	-1.221
102316	Q2Q067	Q9UEY8	-0.17993
102317	Q2Q067	Q9BYG0	-1.0882
102318	Q2Q067	Q2M385	-1.0345
102319	Q2Q067	Q00973	-0.7783
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102321	Q2Q067	O14894	-1.1904
102322	Q2Q067	Q8NGA2	-1.4096
102323	Q2Q067	Q7Z4L0	-0.80824
102324	Q2Q067	Q6UWV2	-0.58098
102325	Q2Q067	P54819	-0.66284
102326	Q2Q067	Q9Y279	-0.31179
102327	Q2Q067	P06276	-0.74593
102328	Q2Q067	Q99570	-0.49838
102329	Q2Q067	O60341	-0.22649
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102331	Q2Q067	O95259	-0.41361
102332	Q2Q067	Q8N9N8	-0.072295
102333	Q2Q067	Q6NYC1	-0.20056
102334	Q2Q067	Q8WUT9	-0.85935
102335	Q2Q067	O00587	-1.0725
102336	Q2Q067	Q8WVX3	-1.0345
102337	Q2Q067	Q9NQS1	-0.11163
102338	Q2Q067	Q14CX7	-0.20901
102339	Q2Q067	Q9Y572	-0.25681
102340	Q2Q067	P23759	-0.2222
102341	Q2Q067	Q8NGY6	-1.4096
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102343	Q2Q067	Q96FI4	-0.20158
102344	Q2Q067	P01571	-0.77343
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102347	Q2Q067	Q9NWC5	-1.0345
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102352	Q2Q067	Q9P2T1	-0.42324
102353	Q2Q067	P35503	-0.96578
102354	Q2Q067	Q9UBP8	-0.3682
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102356	Q2Q067	Q7Z4N8	-0.59337
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102361	Q2Q067	A1L1A6	-1.0345
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102370	Q2Q067	Q66K66	-1.0345
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102396	Q2Q067	B8ZZ34	-1.0345
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102403	Q2Q067	P08949	-0.86155
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102405	Q2Q067	P19525	-0.54358
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102407	Q2Q067	Q99467	-1.1838
102408	Q2Q067	P14778	-1.1502
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102413	Q2Q067	Q13285	-0.23202
102414	Q2Q067	Q86UD3	-1.2913
102415	Q2Q067	Q9HC97	-1.6361
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102417	Q2Q067	P35070	-1.3633
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102424	Q2Q067	Q14573	-0.22287
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102427	Q2Q067	Q96L34	-0.47048
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102429	Q2Q067	Q86Y22	-1.5162
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102433	Q2Q067	Q9UFD9	-0.2274
102434	Q2Q067	Q86UD4	-0.085533
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102438	Q2Q067	Q8NH53	-1.4096
102439	Q2Q067	P05549	-0.21004
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102482	Q2Q067	P09668	-0.24597
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102490	Q2Q067	P30464	-1.1453
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102569	Q2Q067	Q99704	-0.077757
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102571	Q2Q067	Q8N4B5	-0.37256
102572	Q2Q067	Q99075	-1.2299
102573	Q2Q067	A4D1N5	-0.16793
102574	Q2Q067	O60942	-0.64179
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102578	Q2Q067	P58546	-0.22741
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102580	Q2Q067	Q15116	-0.84708
102581	Q2Q067	Q8NFW1	-0.88525
102582	Q2Q067	O94810	-0.66966
102583	Q2Q067	Q9H2B2	-0.98245
102584	Q2Q067	P03951	-0.94563
102585	Q2Q067	Q9BV44	-0.41073
102586	Q2Q067	Q9BXC1	-1.4336
102587	Q2Q067	Q01973	-1.1125
102588	Q2Q067	Q8N412	-0.16672
102589	Q2Q067	P60827	-1.0482
102590	Q2Q067	P09544	-0.50394
102591	Q2Q067	P54317	-0.91272
102592	Q2Q067	O43307	-0.58381
102593	Q2Q067	Q5BJH2	-0.77947
102594	Q2Q067	Q96RL6	-1.2081
102595	Q2Q067	O15119	-0.36741
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102597	Q2Q067	O15544	-0.18671
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102599	Q2Q067	Q99453	-0.22316
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102603	Q2Q067	P06340	-1.077
102604	Q2Q067	Q9Y5B8	-0.81878
102605	Q2Q067	Q96KJ9	-0.44247
102606	Q2Q067	Q13636	-1.1292
102607	Q2Q067	P25942	-0.62185
102608	Q2Q067	Q6EBC2	-0.97648
102609	Q2Q067	P20671	-0.82527
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102612	Q2Q067	Q5ST30	-0.28955
102613	Q2Q067	Q6PI73	-1.0345
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102622	Q2Q067	Q99678	-1.6361
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102635	Q2Q067	Q96IV6	-1.111
102636	Q2Q067	P05108	-0.30171
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102643	Q2Q067	Q86WI1	-0.87161
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102645	Q2Q067	P02730	-0.4282
102646	Q2Q067	Q9NY30	-0.3607
102647	Q2Q067	Q8IX30	-0.22759
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102672	Q2Q067	P16562	-1.0374
102673	Q2Q067	Q9C098	-0.94275
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102675	Q2Q067	Q9Y6A4	-0.62283
102676	Q2Q067	Q8TCQ1	-1.1143

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102682	Q2Q067	Q5BKX8	-0.16323
102683	Q2Q067	Q86VV8	-0.60834
102684	Q2Q067	Q9BQ13	-0.17553
102685	Q2Q067	Q96GD0	-0.12376
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102688	Q2Q067	P22794	-1.0432
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102691	Q2Q067	O60755	-1.3505
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102698	Q2Q067	Q9BQD1	-0.30016
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102719	Q2Q067	Q6NUS8	-1.0345
102720	Q2Q067	P30837	-0.33136
102721	Q2Q067	Q5JTY5	-0.91075
102722	Q2Q067	P16581	-0.46133
102723	Q2Q067	P30461	-1.1453
102724	Q2Q067	Q56NI9	-0.34831
102725	Q2Q067	P41146	-1.3999
102726	Q2Q067	Q6ZSR3	-0.21265
102727	Q2Q067	Q2I0M5	-1.0718
102728	Q2Q067	P20393	-0.73759
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102960	Q2Q067	P25311	-1.1369
102961	Q2Q067	P04432	-1.1115
102962	Q2Q067	Q92738	-1.2123
102963	Q2Q067	Q76N89	-0.23595
102964	Q2Q067	Q9NX62	-0.82251
102965	Q2Q067	Q9Y303	-0.26041
102966	Q2Q067	Q8IWU4	-0.68014
102967	Q2Q067	Q8NBS3	-0.78065
102968	Q2Q067	Q96BR5	-0.097155
102969	Q2Q067	P06316	-1.1115
102970	Q2Q067	Q8IXI1	-0.79972
102971	Q2Q067	Q2TBF2	-1.0345
102972	Q2Q067	P21554	-0.76262
102973	Q2Q067	Q6UW88	-1.2281
102974	Q2Q067	A2RU49	-0.50611
102975	Q2Q067	P43405	-0.32144
102976	Q2Q067	Q9H8S5	-0.38028
102977	Q2Q067	Q86X19	-1.0862
102978	Q2Q067	Q13029	-0.22768
102979	Q2Q067	Q9BVG3	-0.73178
102980	Q2Q067	Q9H4D0	-1.1141



102981	Q2Q067	O15541	-0.50058
102982	Q2Q067	P25705	-0.12368
102983	Q2Q067	Q00888	-0.9841
102984	Q2Q067	Q9BWG4	-0.097681
102985	Q2Q067	P14854	-0.15122
102986	Q2Q067	P32249	-1.3793
102987	Q2Q067	P62491	-0.25474
102988	Q2Q067	P53367	-0.17685
102989	Q2Q067	Q99705	-1.3
102990	Q2Q067	P29274	-0.34544
102991	Q2Q067	P20908	-0.92315
102992	Q2Q067	O76076	-1.1524
102993	Q2Q067	Q9H4Y5	-0.25205
102994	Q2Q067	Q9Y243	-0.44217
102995	Q2Q067	Q68DV7	-0.49257
102996	Q2Q067	Q2VYF4	-0.83024
102997	Q2Q067	A6NDN3	-0.28132
102998	Q2Q067	P60507	-1.0096
102999	Q2Q067	Q9P0K8	-0.33602
103000	Q2Q067	Q5W041	-0.22765
103001	Q2Q067	Q15075	-0.21971
103002	Q2Q067	P07098	-0.9554
103003	Q2Q067	Q6P1N9	-0.13409
103004	Q2Q067	Q3KPI0	-1.0345
103005	Q2Q067	O60262	-0.61392
103006	Q2Q067	Q9Y236	-0.29781
103007	Q2Q067	Q9NV29	-0.77947
103008	Q2Q067	Q8NEM0	-0.21436
103009	Q2Q067	Q92686	-0.42087
103010	Q2Q067	Q9H5J0	-0.2274
103011	Q2Q067	Q5W188	-1.024
103012	Q2Q067	Q13322	-0.22741
103013	Q2Q067	Q92536	-1.1851
103014	Q2Q067	Q9H0E2	-0.2261
103015	Q2Q067	P07358	-1.0856
103016	Q2Q067	O43567	-0.80267
103017	Q2Q067	Q8WVF1	-0.68059
103018	Q2Q067	O94921	-0.19679
103019	Q2Q067	P19174	-0.22741
103020	Q2Q067	Q969P6	-0.51328
103021	Q2Q067	P07510	-1.1951
103022	Q2Q067	Q00796	-0.76847
103023	Q2Q067	Q08170	-0.22607
103024	Q2Q067	O75949	-1.0345
103025	Q2Q067	Q8TF42	-0.22741
103026	Q2Q067	P36551	-0.096639
103027	Q2Q067	Q6P4E1	-1.0345
103028	Q2Q067	Q14149	-0.20052
103029	Q2Q067	O75899	-1.0623
103030	Q2Q067	Q8IWB6	-0.44544
103031	Q2Q067	P40261	-0.20108
103032	Q2Q067	Q9Y5J5	-0.52919
103033	Q2Q067	Q9BV40	-0.70368
103034	Q2Q067	Q9UPI3	-1.0875
103035	Q2Q067	Q8N8X6	-0.28132
103036	Q2Q067	Q96MM6	-0.91075
103037	Q2Q067	Q15040	-0.76176
103038	Q2Q067	Q9NTZ6	-0.44426
103039	Q2Q067	Q5XX13	-0.22758
103040	Q2Q067	Q9H853	-0.65091
103041	Q2Q067	P13164	-0.48226
103042	Q2Q067	P15382	-1.0158
103043	Q2Q067	Q9Y6L7	-1.6326
103044	Q2Q067	Q14393	-0.29204
103045	Q2Q067	Q6UW49	-0.63145
103046	Q2Q067	P14784	-1.2943
103047	Q2Q067	Q86V86	-0.46956
103048	Q2Q067	Q9Y6A2	-0.97196
103049	Q2Q067	Q969K3	-0.42968
103050	Q2Q067	Q9BRR3	-1.0345
103051	Q2Q067	O95206	-1.2543
103052	Q2Q067	Q96EP0	-0.20705
103053	Q2Q067	Q9BXX2	-0.24416
103054	Q2Q067	O60479	-0.22137
103055	Q2Q067	Q49SQ1	-1.4986
103056	Q2Q067	Q6UX71	-0.35359

103057	Q2Q067	O43561	-0.4316
103058	Q2Q067	Q3ZCU0	-0.21336
103059	Q2Q067	Q5VUJ9	-0.45603
103060	Q2Q067	Q96F25	-1.0241
103061	Q2Q067	Q6P2S7	-0.20901
103062	Q2Q067	Q9BV68	-0.22977
103063	Q2Q067	Q8IU99	-1.2877
103064	Q2Q067	Q99877	-0.82527
103065	Q2Q067	Q96Q05	-0.23355
103066	Q2Q067	P22607	-0.38128
103067	Q2Q067	O43761	-0.85262
103068	Q2Q067	P01889	-1.1252
103069	Q2Q067	Q8N8J6	-0.085533
103070	Q2Q067	Q6IQ20	-0.64634
103071	Q2Q067	Q8NEL0	-0.039279
103072	Q2Q067	Q9Y337	-0.94716
103073	Q2Q067	P15516	-0.96658
103074	Q2Q067	Q9Y5K2	-1.5389
103075	Q2Q067	Q9P1P5	-1.4576
103076	Q2Q067	Q9UBX7	-1.4104
103077	Q2Q067	Q96AE7	-0.2242
103078	Q2Q067	Q8N9I5	-1.1667
103079	Q2Q067	Q9BXT8	-0.42442
103080	Q2Q067	P20718	-0.76784
103081	Q2Q067	P17693	-0.9623
103082	Q2Q067	P01603	-1.1115
103083	Q2Q067	Q53TN4	-1.0615
103084	Q2Q067	Q7Z7M8	-0.84072
103085	Q2Q067	Q96H86	-0.085533
103086	Q2Q067	Q7Z5H3	-0.25104
103087	Q2Q067	Q16568	-0.39152
103088	Q2Q067	Q9UBK5	-1.1621
103089	Q2Q067	O43930	-1.3228
103090	Q2Q067	Q96LU7	-0.98666
103091	Q2Q067	Q9Y6I3	-0.075667
103092	Q2Q067	Q8NH10	-1.4096
103093	Q2Q067	P57052	-0.72163
103094	Q2Q067	Q9Y6X0	-0.1381
103095	Q2Q067	Q13464	-0.41245
103096	Q2Q067	Q8N957	-0.22727
103097	Q2Q067	Q7Z4L9	-0.22631
103098	Q2Q067	Q6PCT2	-0.56368
103099	Q2Q067	A8MV81	-1.0345
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103101	Q2Q067	O60231	-0.47418
103102	Q2Q067	O43827	-1.2513
103103	Q2Q067	P59901	-0.35359
103104	Q2Q067	Q9Y5F0	-1.3348
103105	Q2Q067	Q9NZV8	-0.88506
103106	Q2Q067	Q6GPH6	-1.0345
103107	Q2Q067	Q86TZ1	-0.22739
103108	Q2Q067	Q14788	-0.66266
103109	Q2Q067	Q8NGV7	-1.4096
103110	Q2Q067	Q96RR4	-1.2064
103111	Q2Q067	Q9H013	-1.4747
103112	Q2Q067	P12821	-0.89119
103113	Q2Q067	B2RU33	-0.2274
103114	Q2Q067	P38484	-1.1616
103115	Q2Q067	Q12967	-0.68141
103116	Q2Q067	Q2M2I8	-1.0736
103117	Q2Q067	P48230	-0.9485
103118	Q2Q067	Q96EX3	-0.22746
103119	Q2Q067	Q14202	-0.3777
103120	Q2Q067	P43694	-0.22739
103121	Q2Q067	P28908	-0.82489
103122	Q2Q067	Q99259	-0.34288
103123	Q2Q067	Q14966	-0.094357
103124	Q2Q067	O75616	-0.812
103125	Q2Q067	Q9UKA9	-0.55659
103126	Q2Q067	Q13515	-0.27879
103127	Q2Q067	Q5SGD2	-0.79022
103128	Q2Q067	Q9HCJ0	-0.50897
103129	Q2Q067	P27169	-0.85479
103130	Q2Q067	Q8NG68	-0.76739
103131	Q2Q067	A8MTL0	-0.22168
103132	Q2Q067	P0DJI9	-0.91277

103133	Q2Q067	P19961	-0.93732
103134	Q2Q067	Q96EK6	-0.12445
103135	Q2Q067	P30459	-0.98258
103136	Q2Q067	Q86YT5	-0.91682
103137	Q2Q067	B1ANS9	-0.22744
103138	Q2Q067	Q9H2E6	-0.57145
103139	Q2Q067	O15178	-0.28965
103140	Q2Q067	Q9NUL7	-0.17619
103141	Q2Q067	A5PKW4	-1.4205
103142	Q2Q067	A6NNT2	-0.18234
103143	Q2Q067	P55773	-1.2054
103144	Q2Q067	P43121	-1.2286
103145	Q2Q067	P01814	-1.1115
103146	Q2Q067	Q8N0X2	-0.2278
103147	Q2Q067	Q8NG80	-1.2565
103148	Q2Q067	B7ZAP0	-0.13125
103149	Q2Q067	Q8N687	-0.94775
103150	Q2Q067	O75508	-1.0489
103151	Q2Q067	Q96DT6	-0.76778
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103153	Q2Q067	P23942	-1.1986
103154	Q2Q067	Q13445	-0.448
103155	Q2Q067	Q99788	-1.0173
103156	Q2Q067	Q6PIW4	-0.50054
103157	Q2Q067	Q86VD9	-1.0173
103158	Q2Q067	Q6KCM7	-0.91242
103159	Q2Q067	P51608	-0.16408
103160	Q2Q067	Q658N2	-1.0545
103161	Q2Q067	Q8NFM7	-0.75362
103162	Q2Q067	P27539	-0.8199
103163	Q2Q067	Q6ZNR0	-0.78298
103164	Q2Q067	Q6ZUT9	-1.0105
103165	Q2Q067	Q07954	-0.41877
103166	Q2Q067	Q5SQ64	-1.1634
103167	Q2Q067	Q8IY95	-1.123
103168	Q2Q067	Q6PCB6	-0.36393
103169	Q2Q067	P17252	-0.22676
103170	Q2Q067	Q6UX07	-1.5999
103171	Q2Q067	Q9BX74	-1.2229
103172	Q2Q067	O95759	-1.3856
103173	Q2Q067	P15428	-0.22003
103174	Q2Q067	P48052	-1.2963
103175	Q2Q067	Q9P273	-1.1496
103176	Q2Q067	Q9BV87	-1.009
103177	Q2Q067	O43674	-0.56537
103178	Q2Q067	Q86TV6	-0.22722
103179	Q2Q067	P62502	-0.98907
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103182	Q2Q067	Q13698	-0.76653
103183	Q2Q067	Q53S58	-1.0345
103184	Q2Q067	Q9Y366	-0.3162
103185	Q2Q067	Q9NWU1	-0.35395
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103187	Q2Q067	Q2WQJ9	-1.0345
103188	Q2Q067	Q6UWI2	-0.36841
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103191	Q2Q067	Q9C0G6	-0.77552
103192	Q2Q067	Q8WW32	-0.45296
103193	Q2Q067	P08700	-0.61653
103194	Q2Q067	Q9UN70	-1.3351
103195	Q2Q067	Q8NDH2	-0.043716
103196	Q2Q067	O95714	-0.2284
103197	Q2Q067	Q9H0T7	-1.4453
103198	Q2Q067	Q9NRG1	-0.43822
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103204	Q2Q067	Q5TON5	-0.22741
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103217	Q2Q067	B1AJZ1	-0.12815
103218	Q2Q067	Q58FF6	-0.66086
103219	Q2Q067	Q86X24	-0.45499
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103237	Q2Q067	O43597	-0.09485
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103252	Q2Q067	O15353	-0.3153
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103254	Q2Q067	H7BZ55	-0.15783
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103256	Q2Q067	P05155	-0.30033
103257	Q2Q067	Q8N6S4	-0.58265
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103262	Q2Q067	Q96RI8	-1.4576
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103279	Q2Q067	Q9H7Z7	-0.18549
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103291	Q2Q067	Q9Y2E8	-1.0015
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103316	Q2Q067	A4D1P6	-0.22743
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103323	Q2Q067	O43173	-0.69823
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103325	Q2Q067	Q9HBE5	-0.97438
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103327	Q2Q067	Q16790	-0.53942
103328	Q2Q067	Q9NX01	-0.16472
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103339	Q2Q067	A6NKF9	-1.0345
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103341	Q2Q067	Q8TAE6	-0.37111
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103344	Q2Q067	Q8N5S3	-0.19035
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103347	Q2Q067	P30519	-0.21637
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103349	Q2Q067	Q96CS7	-0.60828
103350	Q2Q067	Q9NUD7	-0.025017
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103352	Q2Q067	Q16849	-0.93115
103353	Q2Q067	Q9NR11	-0.085533
103354	Q2Q067	Q5JSP0	-0.81736
103355	Q2Q067	Q9UKA8	-0.88222
103356	Q2Q067	Q9UBE8	-0.22741
103357	Q2Q067	Q9H5L9	-0.047471
103358	Q2Q067	P30536	-0.38477
103359	Q2Q067	Q70HW3	-0.28434
103360	Q2Q067	P49755	-0.19048

103361	Q2Q067	O95013	-1.4096
103362	Q2Q067	Q8NEA5	-1.0345
103363	Q2Q067	Q6UXH1	-0.35601
103364	Q2Q067	Q6ZRR5	-1.0345
103365	Q2Q067	Q9NQ84	-1.3865
103366	Q2Q067	Q8N8U3	-0.50058
103367	Q2Q067	Q9Y5Y9	-1.0387
103368	Q2Q067	Q9UJ99	-1.3679
103369	Q2Q067	P30408	-1.0377
103370	Q2Q067	P30038	-0.35879
103371	Q2Q067	Q6L8Q7	-0.195
103372	Q2Q067	P40692	-0.038463
103373	Q2Q067	Q86VR7	-1.0345
103374	Q2Q067	Q2WGG6	-0.21097
103375	Q2Q067	Q8NFFQ5	-1.1714
103376	Q2Q067	Q969Z4	-0.95288
103377	Q2Q067	A8MZ36	-0.20911
103378	Q2Q067	Q8N2X6	-0.98666
103379	Q2Q067	O75038	-0.59461
103380	Q2Q067	Q6NUI6	-1.0793
103381	Q2Q067	Q9H3R0	-0.20274
103382	Q2Q067	P98171	-0.2281
103383	Q2Q067	Q5JUX0	-0.37866
103384	Q2Q067	Q9BX79	-0.55118
103385	Q2Q067	Q8N4Q0	-0.82939
103386	Q2Q067	P47992	-0.47839
103387	Q2Q067	P29401	-0.072489
103388	Q2Q067	P0CJ69	-0.80201
103389	Q2Q067	P16389	-0.95401
103390	Q2Q067	Q96NR2	-0.13109
103391	Q2Q067	Q96QE2	-1.0163
103392	Q2Q067	P13688	-0.94334
103393	Q2Q067	Q9NS86	-0.20737
103394	Q2Q067	Q99102	-1.6193
103395	Q2Q067	Q8TCW7	-1.0345
103396	Q2Q067	Q8N8D0	-1.0345
103397	Q2Q067	Q5T6X4	-1.0345
103398	Q2Q067	Q14993	-1.3105
103399	Q2Q067	Q96EW2	-0.20901
103400	Q2Q067	Q9BSK4	-0.25817
103401	Q2Q067	Q9P104	-0.39958
103402	Q2Q067	Q13188	-0.34192
103403	Q2Q067	Q9BWV3	-0.64557
103404	Q2Q067	P61224	-0.2949
103405	Q2Q067	Q8NBV8	-1.0231
103406	Q2Q067	Q9HCB6	-0.71326
103407	Q2Q067	Q5VVP1	-1.0345
103408	Q2Q067	Q8N910	-0.063348
103409	Q2Q067	Q76M96	-1.1379
103410	Q2Q067	Q8N967	-1.0345
103411	Q2Q067	O43298	-0.20395
103412	Q2Q067	Q92794	-0.30408
103413	Q2Q067	O75578	-1.1482
103414	Q2Q067	Q6ZV73	-0.79481
103415	Q2Q067	Q86YZ3	-0.73137
103416	Q2Q067	Q9BSJ5	-1.0345
103417	Q2Q067	Q6ZN04	-0.22739
103418	Q2Q067	Q5T7W0	-0.23184
103419	Q2Q067	P24821	-1.2037
103420	Q2Q067	Q05209	-0.23122
103421	Q2Q067	O95992	-0.83891
103422	Q2Q067	P01282	-0.7912
103423	Q2Q067	Q8NHH1	-0.48158
103424	Q2Q067	Q9Y2K2	-0.72763
103425	Q2Q067	Q5W150	-0.32136
103426	Q2Q067	Q5T6X5	-1.3848
103427	Q2Q067	Q6IMI6	-0.36698
103428	Q2Q067	P01138	-0.45594
103429	Q2Q067	Q8NA75	-0.22734
103430	Q2Q067	Q9P2J9	-0.17633
103431	Q2Q067	O60551	-0.11961
103432	Q2Q067	P01189	-0.6273
103433	Q2Q067	E2RYF7	-0.98666
103434	Q2Q067	Q96C12	-0.14425
103435	Q2Q067	Q9UDX5	-0.78597
103436	Q2Q067	Q96KN4	-0.060241

103437	Q2Q067	Q58HT5	-1.0082
103438	Q2Q067	P55808	-1.1541
103439	Q2Q067	Q92879	-0.2354
103440	Q2Q067	P59536	-1.3729
103441	Q2Q067	Q6ZR08	-0.77552
103442	Q2Q067	Q86UP2	-1.0766
103443	Q2Q067	Q9GZQ4	-1.0635
103444	Q2Q067	P43155	-0.53045
103445	Q2Q067	P51805	-1.1524
103446	Q2Q067	P46695	-0.19711
103447	Q2Q067	Q9UJT0	-0.54479
103448	Q2Q067	O43488	-0.22511
103449	Q2Q067	Q9UKB5	-1.0937
103450	Q2Q067	Q9Y365	-0.77641
103451	Q2Q067	Q8IU85	-0.72852
103452	Q2Q067	Q06432	-1.1315
103453	Q2Q067	Q5JU85	-0.2219
103454	Q2Q067	Q9BWV1	-0.59944
103455	Q2Q067	O60548	-0.33602
103456	Q2Q067	A8MTJ6	-0.34661
103457	Q2Q067	Q6PIY7	-0.51741
103458	Q2Q067	Q9Y6V7	-0.98139
103459	Q2Q067	Q6PEV8	-0.11523
103460	Q2Q067	Q8N755	-1.0345
103461	Q2Q067	B1ANH7	-0.17938
103462	Q2Q067	O43819	-0.27923
103463	Q2Q067	Q12929	-0.22741
103464	Q2Q067	Q8IYY4	-0.60189
103465	Q2Q067	Q9HBX9	-1.4155
103466	Q2Q067	Q9H672	-0.61006
103467	Q2Q067	Q8WWA1	-1.0345
103468	Q2Q067	O00115	-0.62091
103469	Q2Q067	O00341	-1.1452
103470	Q2Q067	Q99805	-1.0584
103471	Q2Q067	P58166	-0.84741
103472	Q2Q067	Q7Z7B0	-0.22297
103473	Q2Q067	Q8WTZ4	-0.25091
103474	Q2Q067	Q8IVK1	-0.53726
103475	Q2Q067	P00918	-0.20055
103476	Q2Q067	Q6TAR4	-0.31399
103477	Q2Q067	Q5TDH0	-0.54571
103478	Q2Q067	P15104	-0.59086
103479	Q2Q067	Q6NUJ5	-0.2189
103480	Q2Q067	P40933	-0.21968
103481	Q2Q067	Q8NGT2	-1.4096
103482	Q2Q067	Q9UHE8	-1.2432
103483	Q2Q067	O75747	-0.82503
103484	Q2Q067	Q9Y5E9	-1.3348
103485	Q2Q067	O60774	-1.1473
103486	Q2Q067	Q8NEY1	-0.9992
103487	Q2Q067	P53611	-0.16724
103488	Q2Q067	Q8N0S6	-0.12446
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103491	Q2Q067	A6NL08	-1.4096
103492	Q2Q067	Q8IVF5	-0.91961
103493	Q2Q067	Q8WVQ1	-1.0624
103494	Q2Q067	P14920	-0.38141
103495	Q2Q067	Q6DN72	-1.0301
103496	Q2Q067	P49795	-0.3183
103497	Q2Q067	O43194	-1.6856
103498	Q2Q067	P54652	-0.22446
103499	Q2Q067	Q9UH65	-0.63172
103500	Q2Q067	P14410	-0.60431
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103502	Q2Q067	Q9NYU2	-0.394
103503	Q2Q067	P37058	-0.46554
103504	Q2Q067	P01767	-1.1115
103505	Q2Q067	Q9HCJ2	-0.34971
103506	Q2Q067	Q9NZH7	-0.96479
103507	Q2Q067	O94788	-0.66375
103508	Q2Q067	Q96A32	-0.4739
103509	Q2Q067	A4D2G3	-1.4096
103510	Q2Q067	Q6ZMS4	-0.74229
103511	Q2Q067	Q969M7	-0.29018
103512	Q2Q067	Q96F85	-0.21039

103513	Q2Q067	P43320	-0.44527
103514	Q2Q067	O95278	-0.22913
103515	Q2Q067	Q9UMW8	-0.35901
103516	Q2Q067	Q9HCM4	-0.25216
103517	Q2Q067	Q9HAK2	-0.11224
103518	Q2Q067	P49019	-1.565
103519	Q2Q067	Q6NUK4	-1.0345
103520	Q2Q067	O14772	-0.98215
103521	Q2Q067	Q8WWI1	-0.22727
103522	Q2Q067	Q6XLA1	-0.18638
103523	Q2Q067	Q15274	-0.085722
103524	Q2Q067	P05496	-0.76221
103525	Q2Q067	Q6UWQ7	-0.98666
103526	Q2Q067	Q8NH74	-1.4096
103527	Q2Q067	Q9UN73	-1.8625
103528	Q2Q067	P0C2S0	-1.0097
103529	Q2Q067	A6NFA1	-0.93284
103530	Q2Q067	P56470	-0.49543
103531	Q2Q067	O43424	-0.74546
103532	Q2Q067	Q70Z44	-1.2431
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103534	Q2Q067	Q96L42	-1.069
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103538	Q2Q067	Q16706	-0.54411
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103541	Q2Q067	O43570	-1.0821
103542	Q2Q067	Q06124	-0.22741
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103544	Q2Q067	O95084	-1.1929
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103548	Q2Q067	Q9BPV8	-1.3389
103549	Q2Q067	Q59F38	-0.049966
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103553	Q2Q067	P0CG08	-0.79053
103554	Q2Q067	Q5SSJ5	-0.70642
103555	Q2Q067	Q5TGP6	-0.26375
103556	Q2Q067	Q7Z4N2	-1.4303
103557	Q2Q067	P48145	-0.87816
103558	Q2Q067	Q9UPY5	-0.88489
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103560	Q2Q067	P23975	-0.66783
103561	Q2Q067	Q9NUM3	-1.0849
103562	Q2Q067	Q6ZUQ5	-0.47166
103563	Q2Q067	Q86SS6	-1.0004
103564	Q2Q067	Q9UF72	-0.98666
103565	Q2Q067	Q9Y6F8	-0.22575
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103567	Q2Q067	O75439	-0.65974
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103571	Q2Q067	Q96QP1	-0.80277
103572	Q2Q067	O95237	-0.77232
103573	Q2Q067	Q8TCX1	-0.22689
103574	Q2Q067	Q6ZVL6	-1.0345
103575	Q2Q067	Q86VU5	-0.72128
103576	Q2Q067	Q8N4S9	-0.99157
103577	Q2Q067	Q8N8A4	-0.38988
103578	Q2Q067	Q8NGY7	-1.4096
103579	Q2Q067	Q14774	-0.22804
103580	Q2Q067	Q9H3S4	-0.52863
103581	Q2Q067	Q8NEG7	-0.382
103582	Q2Q067	Q9UL62	-0.59325
103583	Q2Q067	Q5VTA0	-0.19475
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103585	Q2Q067	Q69YU5	-0.98666
103586	Q2Q067	Q8NGC6	-1.4096
103587	Q2Q067	Q96K83	-0.45536
103588	Q2Q067	Q9BSK1	-0.085533



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103595	Q2Q067	Q6PRD1	-1.585
103596	Q2Q067	Q8N6U8	-1.6533
103597	Q2Q067	O43347	-0.29953
103598	Q2Q067	Q7RTR0	-0.74063
103599	Q2Q067	Q8J025	-1.1814
103600	Q2Q067	Q8IYK8	-1.5078
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103603	Q2Q067	Q8NAU1	-1.3695
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103606	Q2Q067	P31941	-0.28189
103607	Q2Q067	Q9Y6Z4	-0.24416
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103616	Q2Q067	Q8N474	-0.30887
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103618	Q2Q067	Q9BTY2	-0.83642
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103620	Q2Q067	Q6GMV3	-0.62171
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103627	Q2Q067	P01818	-1.1115
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103631	Q2Q067	Q8WTU2	-1.0915
103632	Q2Q067	Q5SWL8	-0.19475
103633	Q2Q067	Q8WXD9	-0.38586
103634	Q2Q067	Q8NAJ2	-0.027319
103635	Q2Q067	Q9NS93	-1.1634
103636	Q2Q067	Q9UNE0	-0.79202
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103641	Q2Q067	P48681	-0.19194
103642	Q2Q067	Q8NGY3	-1.4096
103643	Q2Q067	Q96P31	-1.1634
103644	Q2Q067	Q9BZW2	-1.1639
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103646	Q2Q067	P42331	-1.1792
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103660	Q2Q067	O14627	-0.19908
103661	Q2Q067	P12107	-0.84347
103662	Q2Q067	O95864	-0.91515
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103664	Q2Q067	Q9NUR3	-1.0345

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103666	Q2Q067	Q8TBB6	-1.0669
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103670	Q2Q067	Q96JPO	-0.23253
103671	Q2Q067	P15514	-0.77391
103672	Q2Q067	Q8WZA0	-0.46991
103673	Q2Q067	A3KMH1	-1.3094
103674	Q2Q067	Q86SE5	-0.96284
103675	Q2Q067	Q5XG92	-0.9251
103676	Q2Q067	Q7Z7B1	-0.99127
103677	Q2Q067	Q6IF42	-1.4096
103678	Q2Q067	Q9H6I2	-0.18964
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103681	Q2Q067	Q9UKU0	-1.0078
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103685	Q2Q067	O00442	-0.57893
103686	Q2Q067	P19823	-0.85004
103687	Q2Q067	P47929	-0.4767
103688	Q2Q067	Q6MZW2	-1.0413
103689	Q2Q067	A6NFF2	-0.14475
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103691	Q2Q067	Q9BPY8	-0.21923
103692	Q2Q067	P0C842	-0.5697
103693	Q2Q067	Q6UX34	-1.0345
103694	Q2Q067	Q9UHF0	-1.0584
103695	Q2Q067	Q7Z553	-0.6952
103696	Q2Q067	Q8WXG1	-0.047159
103697	Q2Q067	A6NC42	-0.47808
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103699	Q2Q067	P08684	-0.61965
103700	Q2Q067	Q86UU1	-0.51797
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103706	Q2Q067	P56703	-0.5161
103707	Q2Q067	Q5EB52	-1.1139
103708	Q2Q067	Q13113	-1.0345
103709	Q2Q067	P59646	-1.1323
103710	Q2Q067	A4FU69	-0.45603
103711	Q2Q067	Q8TCN5	-0.17007
103712	Q2Q067	Q9NYL9	-0.26938
103713	Q2Q067	Q9H5V8	-1.6971
103714	Q2Q067	Q8WYP3	-0.91029
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103721	Q2Q067	A2RUT3	-1.0345
103722	Q2Q067	Q7Z6B7	-0.61723
103723	Q2Q067	P38567	-0.72611
103724	Q2Q067	Q9UQ52	-0.67738
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103732	Q2Q067	Q9NVT9	-0.25755
103733	Q2Q067	Q8NGK1	-1.4096
103734	Q2Q067	A6NDL8	-1.4096
103735	Q2Q067	Q96A28	-1.0427
103736	Q2Q067	Q8WY21	-0.3859
103737	Q2Q067	O00329	-0.38348
103738	Q2Q067	Q9BVA1	-0.18802
103739	Q2Q067	P32745	-0.72357
103740	Q2Q067	Q9UDX4	-1.2928

103741	Q2Q067	P40939	-0.1532
103742	Q2Q067	Q15649	-0.32896
103743	Q2Q067	Q9BWT6	-0.14617
103744	Q2Q067	Q9BQI4	-0.95448
103745	Q2Q067	A8MXJ8	-0.43957
103746	Q2Q067	P07602	-0.95417
103747	Q2Q067	Q969X2	-0.70909
103748	Q2Q067	O95813	-0.55248
103749	Q2Q067	O60676	-0.83079
103750	Q2Q067	Q08188	-0.57796
103751	Q2Q067	Q9BRQ8	-0.44833
103752	Q2Q067	O95484	-0.85277
103753	Q2Q067	Q53RT3	-1.2649
103754	Q2Q067	P08254	-0.86902
103755	Q2Q067	P46093	-1.6361
103756	Q2Q067	Q13571	-1.3214
103757	Q2Q067	Q96SQ7	-0.22766
103758	Q2Q067	P01567	-0.73689
103759	Q2Q067	Q8N907	-0.72545
103760	Q2Q067	O14804	-1.6059
103761	Q2Q067	Q9NW81	-0.066333
103762	Q2Q067	Q15811	-0.43345
103763	Q2Q067	Q9H0K1	-0.60294
103764	Q2Q067	Q8N7H1	-0.12431
103765	Q2Q067	Q8NC60	-0.21315
103766	Q2Q067	P07093	-0.36672
103767	Q2Q067	Q9NRI6	-0.96181
103768	Q2Q067	Q96NN9	-0.2206
103769	Q2Q067	O75871	-1.1904
103770	Q2Q067	O00311	-0.32833
103771	Q2Q067	P47872	-1.5667
103772	Q2Q067	Q8TDX5	-0.43329
103773	Q2Q067	Q96CE8	-1.0345
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103776	Q2Q067	O75084	-0.64188
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103778	Q2Q067	Q9BT43	-0.16867
103779	Q2Q067	Q8N0U4	-0.20901
103780	Q2Q067	Q9Y5Y3	-1.4967
103781	Q2Q067	Q6ZNG9	-0.25824
103782	Q2Q067	Q14722	-0.96415
103783	Q2Q067	Q9BXJ3	-0.98666
103784	Q2Q067	Q6ZSG1	-0.48451
103785	Q2Q067	P40145	-1.0201
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103787	Q2Q067	Q3B8N2	-0.39245
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103795	Q2Q067	Q8N8V2	-1.1558
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103803	Q2Q067	P01037	-1.024
103804	Q2Q067	Q9Y5L4	-0.29178
103805	Q2Q067	Q7Z6J8	-0.30969
103806	Q2Q067	Q5EBM0	-0.44827
103807	Q2Q067	P80362	-1.1115
103808	Q2Q067	Q6UWV7	-1.0345
103809	Q2Q067	Q9BQ51	-1.4629
103810	Q2Q067	P60509	-1.1634
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103813	Q2Q067	O75388	-1.6325
103814	Q2Q067	O60861	-0.3024
103815	Q2Q067	Q8NG27	-0.23133
103816	Q2Q067	O75078	-1.2686

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103818	Q2Q067	Q8NGZ2	-1.4096
103819	Q2Q067	Q86XE0	-0.39054
103820	Q2Q067	Q9UNT1	-1.2226
103821	Q2Q067	Q9BZB8	-0.65311
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103823	Q2Q067	P22749	-0.9425
103824	Q2Q067	Q12884	-0.68865
103825	Q2Q067	Q30KQ8	-0.94775
103826	Q2Q067	O75031	-0.22126
103827	Q2Q067	P35452	-0.19834
103828	Q2Q067	Q49AN0	-0.18877
103829	Q2Q067	Q96KB5	-0.56632
103830	Q2Q067	O95760	-0.1785
103831	Q2Q067	Q9UIX4	-1.0183
103832	Q2Q067	Q5VW36	-0.32459
103833	Q2Q067	Q6ZN68	-1.0345
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103835	Q2Q067	Q9Y2C5	-1.1959
103836	Q2Q067	Q5JRM2	-1.0345
103837	Q2Q067	Q9NYT0	-0.65248
103838	Q2Q067	A6NI47	-0.2274
103839	Q2Q067	Q9UKJ0	-0.52521
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103841	Q2Q067	Q96AZ1	-1.1333
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103843	Q2Q067	P47901	-1.1321
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103846	Q2Q067	Q9UKT6	-0.46576
103847	Q2Q067	Q16690	-0.52949
103848	Q2Q067	Q969X0	-0.17467
103849	Q2Q067	Q6IE38	-0.90081
103850	Q2Q067	Q9NXP7	-0.39249
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103852	Q2Q067	O14798	-0.92068
103853	Q2Q067	P63244	-0.22787
103854	Q2Q067	Q7Z443	-0.99796
103855	Q2Q067	Q6UXM1	-1.0345
103856	Q2Q067	Q8NBT0	-0.22782
103857	Q2Q067	P79483	-0.92485
103858	Q2Q067	Q9HCI7	-0.47738
103859	Q2Q067	Q9NXS2	-1.177
103860	Q2Q067	Q9BT23	-0.48451
103861	Q2Q067	Q8NH05	-1.4096
103862	Q2Q067	P01229	-0.95829
103863	Q2Q067	Q969V4	-0.26409
103864	Q2Q067	P42701	-0.78851
103865	Q2Q067	Q5JTTJ3	-0.086893
103866	Q2Q067	O75462	-0.2961
103867	Q2Q067	O15484	-1.1088
103868	Q2Q067	Q9NRN5	-1.1974
103869	Q2Q067	P49888	-0.22744
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103871	Q2Q067	Q13751	-0.85903
103872	Q2Q067	P0C024	-0.51687
103873	Q2Q067	Q9NUB4	-1.0345
103874	Q2Q067	A1IGU5	-0.54479
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103880	Q2Q067	P08912	-1.1235
103881	Q2Q067	Q12887	-0.65533
103882	Q2Q067	Q8NGD5	-1.4096
103883	Q2Q067	Q00889	-0.91281
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103885	Q2Q067	Q075Z2	-0.98907
103886	Q2Q067	Q6ZN92	-0.36112
103887	Q2Q067	Q86YB8	-0.72037
103888	Q2Q067	A1A5C7	-1.1011
103889	Q2Q067	P55263	-0.54702
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103897	Q2Q067	Q9H2U9	-1.2457
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103908	Q2Q067	Q9GZW8	-1.0345
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103916	Q2Q067	P62195	-0.69176
103917	Q2Q067	P20851	-1.0848
103918	Q2Q067	Q2TB10	-0.22736
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103925	Q2Q067	Q9Y566	-0.22742
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103937	Q2Q067	Q6F5E7	-0.13952
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103941	Q2Q067	Q7Z3J2	-1.0345
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103956	Q2Q067	Q9YNA8	-0.47805
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103972	Q2Q067	P19835	-0.52991
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104003	Q2Q067	Q8N697	-0.86647
104004	Q2Q067	Q8NEZ4	-0.33878
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104124	Q2Q067	Q9BS31	-0.085533
104125	Q2Q067	Q9NQE7	-0.90601
104126	Q2Q067	Q08357	-1.2157
104127	Q2Q067	Q08629	-0.8724
104128	Q2Q067	O96013	-0.94309
104129	Q2Q067	O43314	-0.62698
104130	Q2Q067	Q9BXY5	-0.45603
104131	Q2Q067	Q8N9I1	-1.0345
104132	Q2Q067	Q9H987	-0.27069
104133	Q2Q067	Q9Y6Y8	-0.3238
104134	Q2Q067	Q96LU5	-0.63409
104135	Q2Q067	P05107	-1.1062
104136	Q2Q067	Q5VUJ6	-0.23345
104137	Q2Q067	Q9C009	-0.30152
104138	Q2Q067	P23435	-0.84302
104139	Q2Q067	Q14197	-0.07892
104140	Q2Q067	P15291	-0.48728
104141	Q2Q067	Q9NRA0	-0.28566
104142	Q2Q067	Q86XP0	-0.34339
104143	Q2Q067	Q8NAS9	-0.11839
104144	Q2Q067	P06310	-1.1115
104145	Q2Q067	A0PK05	-1.0345
104146	Q2Q067	Q96Q06	-0.44053
104147	Q2Q067	P15313	-0.37021
104148	Q2Q067	P05000	-0.86599
104149	Q2Q067	O00559	-0.90242
104150	Q2Q067	Q13207	-0.33213
104151	Q2Q067	O76001	-1.4096
104152	Q2Q067	Q8NH07	-1.4096
104153	Q2Q067	Q8WY07	-1.0306
104154	Q2Q067	C9JH25	-1.0345
104155	Q2Q067	A0A5B9	-1.0345
104156	Q2Q067	Q7Z601	-1.2117
104157	Q2Q067	B5MCN3	-1.1211
104158	Q2Q067	Q8NGI3	-1.4096
104159	Q2Q067	O60281	-0.22741
104160	Q2Q067	Q8WV28	-0.2274
104161	Q2Q067	O15173	-1.2389
104162	Q2Q067	P26440	-0.40631
104163	Q2Q067	P34820	-1.0399
104164	Q2Q067	Q8N3Y3	-0.87577
104165	Q2Q067	Q7Z4K8	-0.73178
104166	Q2Q067	Q499Y3	-0.12822
104167	Q2Q067	Q32P44	-0.2276
104168	Q2Q067	Q8IXM2	-0.036558
104169	Q2Q067	P08922	-1.4697
104170	Q2Q067	Q8N7F7	-0.22606
104171	Q2Q067	Q2MKA7	-0.26444
104172	Q2Q067	Q9NQX5	-1.0345
104173	Q2Q067	Q8NFB2	-1.0345
104174	Q2Q067	Q99835	-0.24926
104175	Q2Q067	P20849	-0.75234
104176	Q2Q067	P04626	-0.24605
104177	Q2Q067	Q13651	-0.76357
104178	Q2Q067	P22234	-0.32748
104179	Q2Q067	Q7Z4G4	-0.35189
104180	Q2Q067	Q9Y227	-0.56468
104181	Q2Q067	Q8N394	-0.99456
104182	Q2Q067	Q96NW4	-0.28045
104183	Q2Q067	O95758	-0.66126
104184	Q2Q067	P01275	-0.62927
104185	Q2Q067	P08F94	-0.22476
104186	Q2Q067	Q76MJ5	-1.051
104187	Q2Q067	Q9BQB6	-1.1079
104188	Q2Q067	Q9NRE1	-1.4192
104189	Q2Q067	Q96AQ8	-0.84904
104190	Q2Q067	Q9NYR8	-1.331
104191	Q2Q067	Q9BVQ7	-0.89961
104192	Q2Q067	Q00975	-0.91398
104193	Q2Q067	P11362	-0.30235
104194	Q2Q067	Q15878	-0.94186
104195	Q2Q067	Q7Z4Y8	-0.44806
104196	Q2Q067	Q8WZ55	-0.81886



104197	Q2Q067	Q8N543	-0.22946
104198	Q2Q067	O15054	-0.44978
104199	Q2Q067	A2VEC9	-1.1831
104200	Q2Q067	Q86XM0	-1.2473
104201	Q2Q067	O14684	-0.89106
104202	Q2Q067	Q9NTJ3	-0.22505
104203	Q2Q067	P51689	-0.49967
104204	Q2Q067	Q8N2Q7	-0.40347
104205	Q2Q067	Q6QHF9	-0.45031
104206	Q2Q067	Q6URK8	-0.98666
104207	Q2Q067	Q32Q52	-0.13794
104208	Q2Q067	Q14508	-1.1064
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104213	Q2Q067	Q99758	-1.3749
104214	Q2Q067	Q9C010	-0.39821
104215	Q2Q067	Q96JM2	-0.2277
104216	Q2Q067	Q8NC44	-0.99456
104217	Q2Q067	Q15413	-0.79286
104218	Q2Q067	Q8NGU1	-1.4096
104219	Q2Q067	P49585	-0.38967
104220	Q2Q067	Q9NPI0	-1.0207
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104222	Q2Q067	P60709	-0.046322
104223	Q2Q067	P00505	-0.22602
104224	Q2Q067	Q99527	-1.3114
104225	Q2Q067	Q15041	-0.13329
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104227	Q2Q067	P19440	-0.4145
104228	Q2Q067	Q5T1Q4	-1.062
104229	Q2Q067	Q96HZ4	-0.22628
104230	Q2Q067	Q5T5B0	-0.37794
104231	Q2Q067	P06870	-0.69246
104232	Q2Q067	O00478	-1.0345
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104234	Q2Q067	O75815	-0.95624
104235	Q2Q067	Q9Y3A0	-0.33172
104236	Q2Q067	Q8NGA0	-1.4096
104237	Q2Q067	Q96MH6	-1.0705
104238	Q2Q067	P42684	-0.58345
104239	Q2Q067	P23467	-0.79202
104240	Q2Q067	Q96FB5	-0.93922
104241	Q2Q067	O14949	-0.17944
104242	Q2Q067	Q8NCL9	-1.0345
104243	Q2Q067	Q9H0J4	-0.21125
104244	Q2Q067	Q06643	-0.95501
104245	Q2Q067	Q9UM19	-0.6192
104246	Q2Q067	O76099	-1.4479
104247	Q2Q067	Q53R12	-1.1634
104248	Q2Q067	P55083	-1.332
104249	Q2Q067	Q9ULA0	-0.69202
104250	Q2Q067	Q96A61	-0.73178
104251	Q2Q067	O00253	-0.92319
104252	Q2Q067	Q86SK9	-1.1749
104253	Q2Q067	Q8TCT7	-0.46406
104254	Q2Q067	Q8NGB8	-1.4096
104255	Q2Q067	P06314	-1.1115
104256	Q2Q067	O94772	-0.4899
104257	Q2Q067	O95069	-1.2332
104258	Q2Q067	P35243	-0.74184
104259	Q2Q067	Q9NRU3	-1.2972
104260	Q2Q067	Q08AH3	-0.88746
104261	Q2Q067	Q14520	-1.6288
104262	Q2Q067	P84090	-0.19154
104263	Q2Q067	Q9Y397	-0.81717
104264	Q2Q067	Q8N205	-0.67622
104265	Q2Q067	Q6UY13	-0.98666
104266	Q2Q067	Q6EKJ0	-0.07818
104267	Q2Q067	Q8TCT9	-0.69772
104268	Q2Q067	P23415	-0.59333
104269	Q2Q067	Q8WUD4	-0.010095
104270	Q2Q067	Q9GZP4	-0.058325
104271	Q2Q067	Q6NXT6	-1.0556
104272	Q2Q067	Q6ZUS6	-0.18361

104273	Q2Q067	Q8NGT1	-1.4096
104274	Q2Q067	Q99661	-0.29078
104275	Q2Q067	P49758	-0.78228
104276	Q2Q067	Q9BWD1	-0.20625
104277	Q2Q067	P54750	-0.31874
104278	Q2Q067	Q9UBP9	-0.60464
104279	Q2Q067	P00813	-0.19412
104280	Q2Q067	Q96K19	-1.2518
104281	Q2Q067	Q2VPA4	-0.90866
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104283	Q2Q067	Q9BWQ6	-1.0094
104284	Q2Q067	P78314	-0.22738
104285	Q2Q067	Q70EL4	-0.76972
104286	Q2Q067	O15042	-0.22547
104287	Q2Q067	O15479	-0.15323
104288	Q2Q067	Q8IWX5	-0.86195
104289	Q2Q067	P0CJ76	-0.80201
104290	Q2Q067	Q6UXU4	-1.0345
104291	Q2Q067	Q8IYS4	-0.4628
104292	Q2Q067	Q5JYT7	-0.091244
104293	Q2Q067	P81133	-0.30629
104294	Q2Q067	Q9Y2G1	-0.37363
104295	Q2Q067	P59543	-1.3729
104296	Q2Q067	P25800	-0.24148
104297	Q2Q067	Q9H0P0	-0.32095
104298	Q2Q067	Q8N9V6	-0.22741
104299	Q2Q067	P41143	-0.62156
104300	Q2Q067	Q9UM47	-0.2298
104301	Q2Q067	Q3SY77	-1.0345
104302	Q2Q067	Q53RY4	-1.0345
104303	Q2Q067	P19256	-0.76029
104304	Q2Q067	Q13072	-0.98666
104305	Q2Q067	Q8IZK6	-1.1958
104306	Q2Q067	P55082	-1.1634
104307	Q2Q067	Q8NFX3	-0.067685
104308	Q2Q067	Q6P3W7	-0.22741
104309	Q2Q067	Q9Y2B9	-0.54527
104310	Q2Q067	Q9H8W5	-0.22741
104311	Q2Q067	Q07001	-1.0733
104312	Q2Q067	Q13393	-0.49817
104313	Q2Q067	O43490	-0.65635
104314	Q2Q067	O15528	-0.36885
104315	Q2Q067	A8MYB1	-1.0345
104316	Q2Q067	Q6NT52	-0.96181
104317	Q2Q067	Q5QJU3	-0.39571
104318	Q2Q067	Q9Y2D0	-0.20566
104319	Q2Q067	P39656	-0.27712
104320	Q2Q067	Q96PJ5	-0.48734
104321	Q2Q067	Q8N468	-1.049
104322	Q2Q067	Q6A1A2	-1.251
104323	Q2Q067	P49815	-0.21272
104324	Q2Q067	P0CJ77	-0.80201
104325	Q2Q067	Q7Z5J8	-1.0345
104326	Q2Q067	Q8IYS0	-1.0345
104327	Q2Q067	Q9BSJ1	-0.73178
104328	Q2Q067	P08173	-1.149
104329	Q2Q067	P54289	-1.0635
104330	Q2Q067	O75310	-1.0795
104331	Q2Q067	Q96NK8	-0.22754
104332	Q2Q067	P33260	-0.82553
104333	Q2Q067	Q86TG1	-1.1346
104334	Q2Q067	Q7Z402	-1.0345
104335	Q2Q067	O75127	-0.19852
104336	Q2Q067	Q96GJ1	-0.18821
104337	Q2Q067	Q96HJ9	-0.21265
104338	Q2Q067	Q9HCL2	-0.4686
104339	Q2Q067	P46977	-0.47995
104340	Q2Q067	A6NEC2	-0.89744
104341	Q2Q067	Q8IW70	-1.0345
104342	Q2Q067	Q9HD89	-0.63149
104343	Q2Q067	Q01433	-0.17987
104344	Q2Q067	Q8TF71	-1.1553
104345	Q2Q067	Q8NGJ1	-1.4096
104346	Q2Q067	O15068	-0.50585
104347	Q2Q067	Q12768	-0.27618
104348	Q2Q067	Q8N7X8	-1.0345

104349	Q2Q067	Q8IUH2	-0.9792
104350	Q2Q067	Q9H497	-0.64255
104351	Q2Q067	A6NC57	-0.22741
104352	Q2Q067	Q9H6B1	-0.42257
104353	Q2Q067	Q9Y5I2	-1.8625
104354	Q2Q067	O75069	-0.35359
104355	Q2Q067	Q7L5Y1	-0.30591
104356	Q2Q067	P11274	-0.82929
104357	Q2Q067	P47756	-0.13693
104358	Q2Q067	Q9Y5Z0	-1.0209
104359	Q2Q067	Q04760	-0.14666
104360	Q2Q067	Q9UN88	-1.0791
104361	Q2Q067	Q9NV12	-1.0345
104362	Q2Q067	Q15390	-0.3257
104363	Q2Q067	Q8N3Z3	-0.91874
104364	Q2Q067	Q7L5A8	-0.88001
104365	Q2Q067	Q5JTB6	-0.98666
104366	Q2Q067	O95154	-0.23017
104367	Q2Q067	O95967	-0.66291
104368	Q2Q067	Q9HCK1	-0.50058
104369	Q2Q067	P20023	-1.0266
104370	Q2Q067	P50552	-0.21742
104371	Q2Q067	H3BUK9	-0.22731
104372	Q2Q067	Q8N1V8	-0.0065151
104373	Q2Q067	Q8NH00	-1.4096
104374	Q2Q067	Q2TAL6	-0.97843
104375	Q2Q067	Q9ULI4	-0.48831
104376	Q2Q067	Q8WWF8	-0.28452
104377	Q2Q067	Q86WK7	-1.204
104378	Q2Q067	Q9Y235	-0.64544
104379	Q2Q067	Q9BSY9	-0.58146
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104383	Q2Q067	Q6ZU15	-0.22559
104384	Q2Q067	P29218	-0.20367
104385	Q2Q067	Q67FW5	-0.46685
104386	Q2Q067	Q9NX61	-0.94037
104387	Q2Q067	Q7RTT9	-1.153
104388	Q2Q067	Q9Y4I1	-0.28616
104389	Q2Q067	Q92478	-1.1722
104390	Q2Q067	Q8N9W4	-0.18908
104391	Q2Q067	Q8TD94	-0.22488
104392	Q2Q067	Q9NY99	-0.37277
104393	Q2Q067	Q86T24	-0.33469
104394	Q2Q067	Q96DX7	-0.22877
104395	Q2Q067	Q10571	-0.25022
104396	Q2Q067	O00755	-0.45384
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104403	Q2Q067	Q8N201	-0.50742
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104405	Q2Q067	Q6PJI1	-0.42087
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104407	Q2Q067	Q5T4F4	-0.48347
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104412	Q2Q067	Q13349	-1.181
104413	Q2Q067	Q6S5H5	-0.22744
104414	Q2Q067	P09958	-0.51427
104415	Q2Q067	P35998	-0.29698
104416	Q2Q067	P00749	-0.77419
104417	Q2Q067	O95674	-0.67732
104418	Q2Q067	P61160	-0.88429
104419	Q2Q067	A6NIL9	-1.0345
104420	Q2Q067	P22001	-0.97726
104421	Q2Q067	P21128	-0.90155
104422	Q2Q067	Q8N6M5	-0.35567
104423	Q2Q067	Q14954	-1.1794
104424	Q2Q067	Q96JQ5	-1.0345

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104427	Q2Q067	P57771	-0.73848
104428	Q2Q067	Q8IVH8	-0.71094
104429	Q2Q067	Q9NR64	-0.43458
104430	Q2Q067	Q96ES6	-1.049
104431	Q2Q067	Q9H8X9	-1.13
104432	Q2Q067	Q9BZI1	-0.22846
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104435	Q2Q067	Q96MU6	-0.085533
104436	Q2Q067	O00299	-0.20725
104437	Q2Q067	Q9Y3P8	-0.36511
104438	Q2Q067	Q9H0U4	-0.72925
104439	Q2Q067	Q9H0Y0	-0.39017
104440	Q2Q067	P58181	-1.4096
104441	Q2Q067	Q6BAA4	-0.22823
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104443	Q2Q067	Q9UKX5	-1.0588
104444	Q2Q067	P49895	-1.0853
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104446	Q2Q067	Q96ER3	-0.93599
104447	Q2Q067	P36888	-0.57123
104448	Q2Q067	Q75N03	-0.24467
104449	Q2Q067	Q96FT7	-1.2636
104450	Q2Q067	Q6P1Q9	-0.38719
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104452	Q2Q067	Q9Y5S1	-0.90555
104453	Q2Q067	O75521	-0.85075
104454	Q2Q067	Q9Y5X2	-0.22336
104455	Q2Q067	Q96QT4	-1.5303
104456	Q2Q067	Q9HBJ0	-0.97992
104457	Q2Q067	Q6ZNL0	-1.0303
104458	Q2Q067	Q562R1	-0.73754
104459	Q2Q067	Q9BYB0	-0.22741
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104461	Q2Q067	Q8NG35	-0.94775
104462	Q2Q067	P02724	-1.0978
104463	Q2Q067	Q6V1X1	-0.23601
104464	Q2Q067	Q8IWA0	-0.22767
104465	Q2Q067	O75054	-1.0345
104466	Q2Q067	Q969G9	-0.21676
104467	Q2Q067	Q96DC9	-0.76789
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104470	Q2Q067	O75204	-0.85679
104471	Q2Q067	Q8N961	-0.36882
104472	Q2Q067	Q5T5A8	-0.37794
104473	Q2Q067	P29120	-0.40846
104474	Q2Q067	Q8N9X5	-1.0345
104475	Q2Q067	Q9UBP0	-0.22831
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104480	Q2Q067	P06309	-1.1115
104481	Q2Q067	Q9Y4H4	-0.25491
104482	Q2Q067	Q8NGX3	-1.4096
104483	Q2Q067	Q9Y483	-0.22788
104484	Q2Q067	P50224	-0.23295
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104486	Q2Q067	Q9Y4C8	-0.55458
104487	Q2Q067	Q8N4H5	-0.61495
104488	Q2Q067	P21217	-0.84282
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104490	Q2Q067	Q9Y570	-0.33953
104491	Q2Q067	Q9Y278	-0.6926
104492	Q2Q067	Q9BYD5	-0.20698
104493	Q2Q067	A6NJZ7	-0.2274
104494	Q2Q067	Q9NRX5	-0.565
104495	Q2Q067	O95045	-0.13693
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104497	Q2Q067	Q9UPQ0	-0.51887
104498	Q2Q067	Q9NV23	-0.50511
104499	Q2Q067	Q7Z5Y7	-0.064418
104500	Q2Q067	P01769	-1.1115

104501	Q2Q067	Q15477	-0.45863
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104503	Q2Q067	Q01449	-0.33412
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104505	Q2Q067	Q7Z6J6	-0.48732
104506	Q2Q067	P62955	-1.0451
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104515	Q2Q067	Q5H943	-1.1634
104516	Q2Q067	Q8IU82	-0.90081
104517	Q2Q067	Q8NGD0	-1.4096
104518	Q2Q067	P51649	-0.30539
104519	Q2Q067	O14493	-0.9392
104520	Q2Q067	Q14512	-0.66774
104521	Q2Q067	Q86TM6	-0.2289
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104523	Q2Q067	Q9BXW7	-0.28959
104524	Q2Q067	Q9NUQ8	-1.0008
104525	Q2Q067	Q2TVT4	-0.31999
104526	Q2Q067	Q9UHN6	-1.2391
104527	Q2Q067	P36507	-0.2276
104528	Q2Q067	Q9Y530	-0.35233
104529	Q2Q067	Q8TE12	-0.22864
104530	Q2Q067	Q8NET6	-0.61401
104531	Q2Q067	O43866	-1.0437
104532	Q2Q067	Q8TF08	-0.79037
104533	Q2Q067	Q9UNF1	-0.11911
104534	Q2Q067	Q8TEY5	-0.22407
104535	Q2Q067	Q09472	-0.051814
104536	Q2Q067	Q8NHX4	-0.34405
104537	Q2Q067	Q0IIM8	-1.4477
104538	Q2Q067	Q9BQY6	-0.90081
104539	Q2Q067	Q8TC07	-0.77491
104540	Q2Q067	Q96I25	-0.20806
104541	Q2Q067	Q02086	-0.22588
104542	Q2Q067	P10253	-0.39719
104543	Q2Q067	Q8TAI7	-1.2458
104544	Q2Q067	P19544	-0.22382
104545	Q2Q067	Q96IG2	-0.2268
104546	Q2Q067	Q96J65	-1.2902
104547	Q2Q067	Q5T8R8	-0.26475
104548	Q2Q067	P59768	-0.56666
104549	Q2Q067	Q8N4X5	-0.29817
104550	Q2Q067	Q9NYW4	-1.2705
104551	Q2Q067	A5D8V7	-0.097881
104552	Q2Q067	A6NDJ8	-1.0904
104553	Q2Q067	Q9NZC3	-0.77758
104554	Q2Q067	O00116	-0.64897
104555	Q2Q067	Q96S42	-0.27794
104556	Q2Q067	Q9UL63	-0.39507
104557	Q2Q067	Q9Y5Q9	-0.22712
104558	Q2Q067	P04183	-0.68206
104559	Q2Q067	P61952	-0.60859
104560	Q2Q067	Q96B33	-0.85277
104561	Q2Q067	Q86Y33	-0.22741
104562	Q2Q067	Q5JPH6	-0.23344
104563	Q2Q067	Q9BWT7	-0.21507
104564	Q2Q067	Q9NPL8	-0.84904
104565	Q2Q067	P51460	-0.66457
104566	Q2Q067	Q8NGR3	-1.4096
104567	Q2Q067	P03950	-0.31329
104568	Q2Q067	Q8WWM7	-0.42439
104569	Q2Q067	Q7Z2G1	-0.80254
104570	Q2Q067	P18564	-1.339
104571	Q2Q067	Q8TEB9	-0.60015
104572	Q2Q067	Q9H4K7	-0.81591
104573	Q2Q067	Q86T65	-0.3723
104574	Q2Q067	P11712	-0.61739
104575	Q2Q067	Q9GZX6	-0.92332
104576	Q2Q067	Q5T6J7	-0.58762

104577	Q2Q067	Q9NYB5	-1.2283
104578	Q2Q067	Q16595	-0.19725
104579	Q2Q067	A6NH21	-1.0454
104580	Q2Q067	Q9NQZ2	-0.22353
104581	Q2Q067	Q7Z7G0	-1.054
104582	Q2Q067	P61803	-0.90253
104583	Q2Q067	Q5VUY2	-1.0084
104584	Q2Q067	Q9UHB6	-0.50285
104585	Q2Q067	Q9BYN0	-0.71091
104586	Q2Q067	Q9Y624	-0.81773
104587	Q2Q067	O43818	-0.22887
104588	Q2Q067	O75882	-1.5997
104589	Q2Q067	Q9NPB1	-0.58223
104590	Q2Q067	Q9UKP3	-0.74503
104591	Q2Q067	Q6ZSR9	-0.29649
104592	Q2Q067	P17516	-0.22701
104593	Q2Q067	Q9UJ96	-0.79496
104594	Q2Q067	A6NK59	-0.61006
104595	Q2Q067	P24158	-0.30491
104596	Q2Q067	Q5JTV8	-0.51428
104597	Q2Q067	Q5UAW9	-1.5302
104598	Q2Q067	Q6T423	-1.049
104599	Q2Q067	Q92508	-1.1158
104600	Q2Q067	Q9UHG2	-0.84375
104601	Q2Q067	Q9P2F6	-1.1792
104602	Q2Q067	Q8NEA4	-0.16061
104603	Q2Q067	Q8TDS7	-1.4967
104604	Q2Q067	Q8WX39	-0.97506
104605	Q2Q067	Q9HAY2	-0.0075932
104606	Q2Q067	Q6N063	-0.65798
104607	Q2Q067	Q86VD7	-0.70579
104608	Q2Q067	O75864	-0.41456
104609	Q2Q067	Q9C0E4	-0.29202
104610	Q2Q067	Q9NRJ7	-1.3348
104611	Q2Q067	Q9NZV1	-1.2829
104612	Q2Q067	Q3B7J2	-1.593
104613	Q2Q067	P22459	-0.66721
104614	Q2Q067	P55316	-0.33602
104615	Q2Q067	Q5T124	-0.21707
104616	Q2Q067	Q9P2D0	-0.22738
104617	Q2Q067	Q9BST9	-0.66973
104618	Q2Q067	Q8NB16	-0.22741
104619	Q2Q067	P47870	-0.7463
104620	Q2Q067	Q9NQ25	-1.1687
104621	Q2Q067	Q5XXA6	-1.0959
104622	Q2Q067	Q9BXX5	-0.35365
104623	Q2Q067	B3KVV0	-1.0345
104624	Q2Q067	P02743	-0.89648
104625	Q2Q067	Q6P3S6	-0.22703
104626	Q2Q067	Q92185	-0.62122
104627	Q2Q067	O60320	-1.0345
104628	Q2Q067	O60687	-0.42332
104629	Q2Q067	P35414	-1.2575
104630	Q2Q067	P46940	-0.22741
104631	Q2Q067	Q96ND0	-0.84904
104632	Q2Q067	Q53EV4	-0.24416
104633	Q2Q067	Q9BY78	-0.99849
104634	Q2Q067	P0CB46	-0.8637
104635	Q2Q067	Q5SQI0	-0.45439
104636	Q2Q067	Q9H239	-1.5113
104637	Q2Q067	Q9NUV7	-0.90989
104638	Q2Q067	Q95995	-0.26941
104639	Q2Q067	Q9H0B3	-0.21265
104640	Q2Q067	O15496	-0.65461
104641	Q2Q067	Q9Y2Y4	-0.24519
104642	Q2Q067	O75677	-0.48451
104643	Q2Q067	Q5JPE7	-0.46468
104644	Q2Q067	P06731	-0.74353
104645	Q2Q067	Q9H3T2	-1.154
104646	Q2Q067	Q9NZ53	-0.69705
104647	Q2Q067	Q7Z475	-1.0256
104648	Q2Q067	Q9HBK9	-0.14194
104649	Q2Q067	Q86UU5	-0.44923
104650	Q2Q067	Q9H930	-0.25631
104651	Q2Q067	Q8WY98	-1.0345
104652	Q2Q067	O14633	-0.278

104653	Q2Q067	P08590	-0.29492
104654	Q2Q067	P59190	-1.2811
104655	Q2Q067	Q9H832	-0.27073
104656	Q2Q067	Q6ICG6	-0.050811
104657	Q2Q067	A6NM45	-0.85798
104658	Q2Q067	Q8TAT5	-0.43266
104659	Q2Q067	Q9Y3M9	-0.085533
104660	Q2Q067	A6NNB3	-1.3152
104661	Q2Q067	Q5GAN4	-0.97935
104662	Q2Q067	P56159	-0.57517
104663	Q2Q067	Q9UHQ9	-0.94171
104664	Q2Q067	Q99680	-1.6361
104665	Q2Q067	Q14554	-0.49233
104666	Q2Q067	A8MWS5	-0.088675
104667	Q2Q067	Q6PDA7	-0.98666
104668	Q2Q067	P18509	-0.7662
104669	Q2Q067	P63127	-0.74403
104670	Q2Q067	Q6NTE8	-0.24416
104671	Q2Q067	Q9UK53	-0.22353
104672	Q2Q067	Q6NW34	-1.0345
104673	Q2Q067	Q7RTR2	-0.53541
104674	Q2Q067	Q12864	-1.1766
104675	Q2Q067	P35659	-0.26427
104676	Q2Q067	Q5VZV1	-0.38719
104677	Q2Q067	Q5XUX0	-0.32416
104678	Q2Q067	P49703	-0.2567
104679	Q2Q067	Q9BR61	-0.22741
104680	Q2Q067	P25101	-0.52742
104681	Q2Q067	O60462	-0.83433
104682	Q2Q067	A6NLC5	-0.0058394
104683	Q2Q067	Q8NFF5	-0.60148
104684	Q2Q067	O95661	-0.88439
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104686	Q2Q067	Q99442	-0.86424
104687	Q2Q067	Q5VTM2	-1.2207
104688	Q2Q067	Q4VXA5	-1.0514
104689	Q2Q067	Q8WZ73	-0.37673
104690	Q2Q067	Q7L8A9	-0.66131
104691	Q2Q067	Q9HC10	-0.75983
104692	Q2Q067	Q8NGS9	-1.4096
104693	Q2Q067	Q8N326	-1.0345
104694	Q2Q067	Q96QH8	-0.93539
104695	Q2Q067	Q53RE8	-0.24416
104696	Q2Q067	Q0P140	-0.0098849
104697	Q2Q067	Q9BTV7	-0.067403
104698	Q2Q067	Q8TAG9	-0.3459
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104703	Q2Q067	P20794	-0.22689
104704	Q2Q067	Q14409	-0.67829
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104706	Q2Q067	P53365	-0.2222
104707	Q2Q067	Q96Q45	-1.0428
104708	Q2Q067	Q5T1H1	-1.1705
104709	Q2Q067	Q8NHB1	-1.4096
104710	Q2Q067	P31939	-0.20719
104711	Q2Q067	P11055	-0.36208
104712	Q2Q067	Q9P2X8	-0.24416
104713	Q2Q067	Q96MX0	-1.0608
104714	Q2Q067	Q9BZ98	-0.29684
104715	Q2Q067	O95803	-0.88137
104716	Q2Q067	Q9Y2T6	-1.3781
104717	Q2Q067	Q8N8I0	-0.22616
104718	Q2Q067	O60678	-0.15544
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104720	Q2Q067	Q5JVL4	-0.46278
104721	Q2Q067	P01602	-1.1115
104722	Q2Q067	O94955	-0.51259
104723	Q2Q067	P49238	-0.75944
104724	Q2Q067	Q8N157	-0.22741
104725	Q2Q067	Q8N5B7	-0.24263
104726	Q2Q067	Q16585	-0.80372
104727	Q2Q067	Q8TDM6	-0.56371
104728	Q2Q067	Q7Z434	-0.30269

104729	Q2Q067	P07992	-0.18015
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104731	Q2Q067	Q6IPR1	-0.21265
104732	Q2Q067	P36954	-0.19237
104733	Q2Q067	Q96PV4	-0.35564
104734	Q2Q067	P31323	-0.22731
104735	Q2Q067	P80419	-0.98652
104736	Q2Q067	Q63HN8	-0.92391
104737	Q2Q067	P29144	-0.14534
104738	Q2Q067	Q96SL4	-1.1923
104739	Q2Q067	Q6BCY4	-0.53742
104740	Q2Q067	O94823	-0.72007
104741	Q2Q067	O95396	-0.15276
104742	Q2Q067	Q96MP8	-0.21935
104743	Q2Q067	Q4W5P6	-0.98666
104744	Q2Q067	Q96KG9	-0.22741
104745	Q2Q067	Q8N4F0	-1.1714
104746	Q2Q067	O75309	-1.3679
104747	Q2Q067	Q53QZ3	-1.0482
104748	Q2Q067	Q96KR7	-0.15731
104749	Q2Q067	P21741	-0.95803
104750	Q2Q067	P22760	-0.96531
104751	Q2Q067	P01920	-0.77318
104752	Q2Q067	P01308	-0.2258
104753	Q2Q067	Q9H8H3	-0.51633
104754	Q2Q067	O43896	-0.50925
104755	Q2Q067	O95183	-1.1681
104756	Q2Q067	O00292	-0.78588
104757	Q2Q067	P27216	-0.72742
104758	Q2Q067	Q03181	-0.32331
104759	Q2Q067	Q8N815	-0.061906
104760	Q2Q067	Q14314	-1.2449
104761	Q2Q067	A8MXK1	-1.0345
104762	Q2Q067	Q9UJW2	-1.6891
104763	Q2Q067	Q00LT1	-0.98174
104764	Q2Q067	Q6UWP7	-0.93065
104765	Q2Q067	A8MVW0	-1.0345
104766	Q2Q067	O96011	-0.14234
104767	Q2Q067	Q96PU9	-0.66672
104768	Q2Q067	Q99439	-0.22049
104769	Q2Q067	Q6PUV4	-0.31814
104770	Q2Q067	A6NHS7	-1.0345
104771	Q2Q067	P35625	-0.37423
104772	Q2Q067	Q6PI25	-0.50241
104773	Q2Q067	Q8IV08	-0.46737
104774	Q2Q067	Q9NWQ8	-0.61919
104775	Q2Q067	O94827	-0.46398
104776	Q2Q067	Q9BU20	-1.1347
104777	Q2Q067	O60240	-0.50203
104778	Q2Q067	Q6ZMU5	-0.46874
104779	Q2Q067	Q9UI38	-0.70143
104780	Q2Q067	Q9NZU5	-0.27078
104781	Q2Q067	P07711	-0.56833
104782	Q2Q067	Q99665	-0.99969
104783	Q2Q067	Q9ULJ1	-0.21094
104784	Q2Q067	Q9UHI5	-0.4998
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104786	Q2Q067	Q9Y223	-0.75383
104787	Q2Q067	Q96AN5	-0.71318
104788	Q2Q067	O00763	-0.28344
104789	Q2Q067	P04083	-0.23018
104790	Q2Q067	O75746	-0.42437
104791	Q2Q067	Q6UXF7	-0.97472
104792	Q2Q067	Q6NVV3	-1.1241
104793	Q2Q067	O75503	-0.34393
104794	Q2Q067	Q2M1P5	-0.47427
104795	Q2Q067	P40126	-0.60661
104796	Q2Q067	Q6ZRX8	-0.18296
104797	Q2Q067	Q6JEL2	-0.22628
104798	Q2Q067	Q86SR1	-0.84989
104799	Q2Q067	O00155	-1.6361
104800	Q2Q067	P01236	-0.9065
104801	Q2Q067	P50150	-0.64839
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104803	Q2Q067	Q9H6E4	-0.98666
104804	Q2Q067	O76039	-0.55107



104805	Q2Q067	P53794	-1.2125
104806	Q2Q067	P0C1S8	-0.58081
104807	Q2Q067	A6NDH6	-1.4096
104808	Q2Q067	Q8N608	-1.2021
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104811	Q2Q067	Q8IYT4	-0.77636
104812	Q2Q067	Q96BY9	-0.52307
104813	Q2Q067	Q7Z5Q1	-0.73827
104814	Q2Q067	Q03167	-0.34802
104815	Q2Q067	Q0VDD8	-0.71873
104816	Q2Q067	P63123	-0.74403
104817	Q2Q067	Q13643	-0.22691
104818	Q2Q067	Q9HBX8	-1.4577
104819	Q2Q067	Q6UXS0	-0.97472
104820	Q2Q067	Q8NH57	-1.4096
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104825	Q2Q067	Q92504	-1.174
104826	Q2Q067	Q96SB3	-0.22718
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104829	Q2Q067	P46089	-1.5656
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104833	Q2Q067	Q9HAQ2	-0.70795
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104836	Q2Q067	P15531	-0.22833
104837	Q2Q067	P42658	-1.0194
104838	Q2Q067	Q96JK4	-0.72031
104839	Q2Q067	Q96BU1	-0.15682
104840	Q2Q067	Q9H106	-0.98666
104841	Q2Q067	Q70EL2	-0.86859
104842	Q2Q067	P29728	-0.23128
104843	Q2Q067	Q9BY76	-0.51332
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104845	Q2Q067	Q6UXV1	-1.0345
104846	Q2Q067	Q99811	-0.21089
104847	Q2Q067	Q8NH09	-1.4096
104848	Q2Q067	Q9Y6W8	-1.7544
104849	Q2Q067	Q8NAN2	-1.0345
104850	Q2Q067	Q8IZL9	-0.33003
104851	Q2Q067	P55789	-0.10535
104852	Q2Q067	Q9Y689	-1.4417
104853	Q2Q067	P0C646	-1.4096
104854	Q2Q067	Q8N123	-0.66124
104855	Q2Q067	Q9NYH9	-0.16721
104856	Q2Q067	Q86Y27	-0.98666
104857	Q2Q067	Q96NF6	-1.0345
104858	Q2Q067	Q8NEW7	-1.0807
104859	Q2Q067	Q5JQS5	-1.4096
104860	Q2Q067	Q8NG66	-0.38858
104861	Q2Q067	Q96MC5	-0.14634
104862	Q2Q067	A8MVS5	-1.0345
104863	Q2Q067	P35398	-0.39543
104864	Q2Q067	Q8WWQ8	-0.82722
104865	Q2Q067	Q9C093	-0.42142
104866	Q2Q067	Q9UKI3	-0.37256
104867	Q2Q067	P18089	-0.66433
104868	Q2Q067	Q8IZ57	-0.96231
104869	Q2Q067	Q13470	-0.92979
104870	Q2Q067	Q9P2D7	-0.5779
104871	Q2Q067	Q9BZM5	-1.1276
104872	Q2Q067	Q6ZRP7	-1.2316
104873	Q2Q067	Q96MI9	-0.51488
104874	Q2Q067	Q86SE8	-0.13188
104875	Q2Q067	P10911	-0.22717
104876	Q2Q067	P19634	-0.36034
104877	Q2Q067	Q13394	-0.2201
104878	Q2Q067	Q9HB31	-0.22672
104879	Q2Q067	Q13477	-1.3375
104880	Q2Q067	Q86UW1	-1.0912

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104882	Q2Q067	O75140	-0.59947
104883	Q2Q067	Q7Z3F1	-1.1663
104884	Q2Q067	P17752	-0.38966
104885	Q2Q067	P48454	-0.15595
104886	Q2Q067	Q86YJ6	-0.78494
104887	Q2Q067	P50395	-0.17899
104888	Q2Q067	Q9NY91	-1.0809
104889	Q2Q067	Q9BUM1	-0.45298
104890	Q2Q067	P32322	-0.54936
104891	Q2Q067	P57796	-0.75069
104892	Q2Q067	Q9H4R4	-0.0043796
104893	Q2Q067	A5D8W1	-0.12242
104894	Q2Q067	Q6UVM3	-1.4767
104895	Q2Q067	Q12948	-0.26494
104896	Q2Q067	P07949	-0.78854
104897	Q2Q067	Q9NW97	-1.0345
104898	Q2Q067	Q4VNC1	-1.216
104899	Q2Q067	Q9NZ08	-0.6851
104900	Q2Q067	Q13461	-0.33602
104901	Q2Q067	Q9BXI6	-0.823
104902	Q2Q067	P17658	-1.0103
104903	Q2Q067	P20813	-0.76608
104904	Q2Q067	Q12851	-0.46603
104905	Q2Q067	Q01955	-0.5975
104906	Q2Q067	Q7RTZ2	-0.27849
104907	Q2Q067	Q5T9L3	-0.42736
104908	Q2Q067	Q96AP7	-0.95703
104909	Q2Q067	P16144	-0.8064
104910	Q2Q067	Q9UMR7	-1.343
104911	Q2Q067	Q96KK3	-0.54729
104912	Q2Q067	Q96BJ3	-0.4579
104913	Q2Q067	Q9HC07	-0.90887
104914	Q2Q067	Q9UGM1	-0.9927
104915	Q2Q067	Q0VDI3	-1.0345
104916	Q2Q067	Q9BXF9	-0.26409
104917	Q2Q067	Q8WUS8	-1.309
104918	Q2Q067	H0YL14	-0.47914
104919	Q2Q067	P30450	-0.98258
104920	Q2Q067	Q96FV0	-0.22727
104921	Q2Q067	P08174	-1.1886
104922	Q2Q067	Q96K49	-1.0345
104923	Q2Q067	O00159	-0.14387
104924	Q2Q067	Q5VT99	-1.3079
104925	Q2Q067	O75937	-0.19862
104926	Q2Q067	Q8N4V1	-0.91481
104927	Q2Q067	Q8TD43	-1.0132
104928	Q2Q067	A2RUH7	-0.24416
104929	Q2Q067	Q9NR71	-0.79454
104930	Q2Q067	Q8TCC7	-0.93101
104931	Q2Q067	Q53RD9	-1.3116
104932	Q2Q067	Q12882	-0.50998
104933	Q2Q067	Q6ZP80	-1.0345
104934	Q2Q067	Q9BSK2	-0.86765
104935	Q2Q067	Q3SXY7	-1.0345
104936	Q2Q067	Q8IWX7	-0.3197
104937	Q2Q067	C9JL84	-0.98666
104938	Q2Q067	P20061	-1.0099
104939	Q2Q067	Q5W0U4	-0.22987
104940	Q2Q067	Q96PX1	-0.48451
104941	Q2Q067	P17936	-0.22729
104942	Q2Q067	Q9NXG0	-0.06903
104943	Q2Q067	P08263	-0.22592
104944	Q2Q067	P55085	-0.36771
104945	Q2Q067	Q9UQC2	-0.22739
104946	Q2Q067	P56856	-0.85277
104947	Q2Q067	Q9H255	-1.4096
104948	Q2Q067	Q8NCQ3	-1.0345
104949	Q2Q067	P42345	-0.27549
104950	Q2Q067	Q8WUY9	-1.0346
104951	Q2Q067	P12272	-0.34044
104952	Q2Q067	Q8IZI9	-0.99416
104953	Q2Q067	Q13509	-0.63034
104954	Q2Q067	Q9Y4X4	-0.22522
104955	Q2Q067	Q05586	-0.43852
104956	Q2Q067	O75900	-1.5678

104957	Q2Q067	Q5VXJ0	-0.96522
104958	Q2Q067	A6NNN8	-1.1869
104959	Q2Q067	P51530	-0.22921
104960	Q2Q067	P03923	-0.63636
104961	Q2Q067	Q15392	-0.35369
104962	Q2Q067	Q92949	-0.30831
104963	Q2Q067	Q9GZV3	-1.1424
104964	Q2Q067	P33763	-0.23773
104965	Q2Q067	Q99578	-1.0482
104966	Q2Q067	Q9BRT8	-0.91075
104967	Q2Q067	P25929	-0.95545
104968	Q2Q067	P10646	-0.84742
104969	Q2Q067	P16402	-0.69291
104970	Q2Q067	Q6XR72	-1.2106
104971	Q2Q067	Q96BS2	-0.22745
104972	Q2Q067	Q07617	-0.87335
104973	Q2Q067	O94782	-0.32428
104974	Q2Q067	Q70CQ2	-0.31401
104975	Q2Q067	Q5U4N7	-0.21265
104976	Q2Q067	Q96AY3	-0.52559
104977	Q2Q067	Q9BVG8	-0.35126
104978	Q2Q067	Q86TY3	-1.0345
104979	Q2Q067	O43716	-0.58783
104980	Q2Q067	P98172	-0.19369
104981	Q2Q067	Q6DD88	-1.0899
104982	Q2Q067	Q8N6L1	-0.76248
104983	Q2Q067	O14559	-0.26853
104984	Q2Q067	P19883	-0.22575
104985	Q2Q067	P80303	-0.18477
104986	Q2Q067	P06213	-0.27166
104987	Q2Q067	Q9H3Q3	-0.89115
104988	Q2Q067	Q96PS8	-1.1187
104989	Q2Q067	Q8NH79	-1.4096
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104991	Q2Q067	P01760	-1.1115
104992	Q2Q067	Q86VI4	-0.48898
104993	Q2Q067	Q7LDI9	-0.47805
104994	Q2Q067	Q9NP85	-0.10311
104995	Q2Q067	Q8IUG1	-0.53608
104996	Q2Q067	Q9Y2L6	-0.33549
104997	Q2Q067	P83593	-1.101
104998	Q2Q067	Q9BXW6	-0.22741
104999	Q2Q067	E5RQL4	-0.53226
105000	Q2Q067	Q9BV94	-0.86803
105001	Q2Q067	Q9Y5P1	-1.4096
105002	Q2Q067	Q8NDH3	-0.78221
105003	Q2Q067	Q5TG30	-1.0924
105004	Q2Q067	P54619	-0.45332
105005	Q2Q067	P04070	-0.85056
105006	Q2Q067	P40394	-0.68344
105007	Q2Q067	C9JCN9	-0.32381
105008	Q2Q067	P08217	-1.5202
105009	Q2Q067	O95279	-1.2492
105010	Q2Q067	Q9H2J1	-0.21271
105011	Q2Q067	O95050	-0.1377
105012	Q2Q067	Q8IV35	-0.22749
105013	Q2Q067	P01772	-1.1115
105014	Q2Q067	Q9BSJ8	-1.0345
105015	Q2Q067	Q9Y471	-0.40359
105016	Q2Q067	P26006	-0.51208
105017	Q2Q067	O95716	-0.90446
105018	Q2Q067	Q52LW3	-0.95765
105019	Q2Q067	Q86Y91	-0.28161
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105021	Q2Q067	Q5TEJ8	-0.66806
105022	Q2Q067	Q8TF65	-0.22636
105023	Q2Q067	Q9UK96	-0.43384
105024	Q2Q067	Q9NSD7	-1.5681
105025	Q2Q067	Q8NFP7	-0.20988
105026	Q2Q067	Q2M2I3	-0.17888
105027	Q2Q067	O00590	-1.5712
105028	Q2Q067	Q9BZD3	-0.24349
105029	Q2Q067	Q92935	-1.0929
105030	Q2Q067	O15212	-0.3656
105031	Q2Q067	P16410	-0.37026
105032	Q2Q067	P25021	-1.5688

105033	Q2Q067	Q07973	-0.40608
105034	Q2Q067	Q9NRX6	-0.82825
105035	Q2Q067	Q9NZM1	-0.65245
105036	Q2Q067	Q96A59	-0.85126
105037	Q2Q067	O14654	-0.96647
105038	Q2Q067	Q7RTU9	-0.56969
105039	Q2Q067	P27658	-1.1921
105040	Q2Q067	P63126	-0.47805
105041	Q2Q067	Q9UQ05	-1.1113
105042	Q2Q067	A6ND48	-1.4096
105043	Q2Q067	Q96RU3	-0.22741
105044	Q2Q067	Q86YD5	-1.108
105045	Q2Q067	Q9P2E2	-0.4092
105046	Q2Q067	P12829	-0.33917
105047	Q2Q067	Q9P2N2	-0.59619
105048	Q2Q067	P20340	-0.24717
105049	Q2Q067	O00592	-1.0888
105050	Q2Q067	Q96T52	-0.64834
105051	Q2Q067	Q86TM3	-0.69188
105052	Q2Q067	Q53GA4	-0.35548
105053	Q2Q067	Q9H4I9	-0.84904
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105056	Q2Q067	Q8IZ21	-0.62898
105057	Q2Q067	O43396	-0.2278
105058	Q2Q067	Q6UWF9	-0.98666
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105060	Q2Q067	P12110	-0.62324
105061	Q2Q067	Q9BTM1	-0.82527
105062	Q2Q067	Q4VCS5	-0.18994
105063	Q2Q067	Q14524	-0.37052
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105067	Q2Q067	Q9BYB4	-0.22752
105068	Q2Q067	Q719I0	-0.35237
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105070	Q2Q067	Q8WXI3	-0.61006
105071	Q2Q067	Q9HAW7	-0.80632
105072	Q2Q067	P30511	-1.1678
105073	Q2Q067	O75153	-0.20901
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105079	Q2Q067	Q9H2Y7	-0.22989
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105081	Q2Q067	Q9H720	-1.0097
105082	Q2Q067	Q8NGD2	-1.4096
105083	Q2Q067	P36980	-0.98666
105084	Q2Q067	A6NGG8	-0.7418
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105087	Q2Q067	Q9P2D6	-0.033427
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105095	Q2Q067	Q07812	-0.22737
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105104	Q2Q067	P55107	-0.78087
105105	Q2Q067	O15018	-0.55734
105106	Q2Q067	P52740	-0.067277
105107	Q2Q067	Q8NEC7	-0.24416
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105124	Q2Q067	Q99633	-0.14717
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105131	Q2Q067	Q5KU26	-0.70528
105132	Q2Q067	A8MWV9	-1.0345
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105136	Q2Q067	Q00391	-1.3013
105137	Q2Q067	Q14678	-1.504
105138	Q2Q067	Q16671	-1.6248
105139	Q2Q067	Q9UKY4	-1.117
105140	Q2Q067	Q7Z4T8	-0.90289
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105142	Q2Q067	P42126	-0.29964
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105150	Q2Q067	Q96G74	-0.54955
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105154	Q2Q067	Q8N6N6	-0.086484
105155	Q2Q067	Q99853	-0.32794
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105186	Q2Q067	Q8WV74	-0.2353
105187	Q2Q067	Q96L12	-0.59501
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105190	Q2Q067	P06307	-0.78132
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105195	Q2Q067	Q96LR9	-1.888
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105201	Q2Q067	P36406	-0.56613
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105284	Q2Q067	Q8NG84	-1.4096
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105286	Q2Q067	A6NDD2	-0.94775
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105295	Q2Q067	P01771	-1.1115
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105298	Q2Q067	P02656	-0.6622
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105304	Q2Q067	P28328	-0.34589
105305	Q2Q067	Q9Y5U4	-0.38144
105306	Q2Q067	Q8WXF7	-0.71947
105307	Q2Q067	Q8NBV4	-0.72637
105308	Q2Q067	Q8NGX5	-1.4096
105309	Q2Q067	Q9NZ56	-0.59022
105310	Q2Q067	Q6ZW31	-0.83748
105311	Q2Q067	Q9H0K6	-0.32489
105312	Q2Q067	Q5JU00	-0.22723
105313	Q2Q067	Q5SZJ8	-0.086232
105314	Q2Q067	P48059	-0.21691
105315	Q2Q067	Q8NGC0	-1.4096
105316	Q2Q067	Q9Y4C0	-1.228
105317	Q2Q067	Q8IXH8	-1.3679
105318	Q2Q067	P57730	-0.68583
105319	Q2Q067	Q9HAC7	-0.4842
105320	Q2Q067	P0CF97	-0.41613
105321	Q2Q067	P30481	-1.1453
105322	Q2Q067	Q94830	-0.13949
105323	Q2Q067	O95452	-1.1329
105324	Q2Q067	Q96D31	-0.62932
105325	Q2Q067	P47775	-1.5865
105326	Q2Q067	Q13214	-1.0849
105327	Q2Q067	Q5EBN2	-0.73178
105328	Q2Q067	P06241	-0.3859
105329	Q2Q067	Q9GIY3	-0.79235
105330	Q2Q067	Q9NUQ9	-0.13249
105331	Q2Q067	O60542	-0.83177
105332	Q2Q067	Q13217	-0.19778
105333	Q2Q067	O43820	-0.76419
105334	Q2Q067	Q8TCB6	-1.4096
105335	Q2Q067	P06865	-0.45177
105336	Q2Q067	Q9Y3R0	-0.23312

105337	Q2Q067	Q6PCB5	-0.054655
105338	Q2Q067	Q6PML9	-0.63669
105339	Q2Q067	Q9P003	-0.94893
105340	Q2Q067	P01777	-1.1115
105341	Q2Q067	Q5W186	-1.024
105342	Q2Q067	Q4AC99	-0.48663
105343	Q2Q067	P08910	-0.75125
105344	Q2Q067	Q9H4I0	-0.25491
105345	Q2Q067	Q96HE7	-0.55706
105346	Q2Q067	P52735	-0.22741
105347	Q2Q067	Q15020	-0.22072
105348	Q2Q067	Q9UGI9	-1.0139
105349	Q2Q067	Q5VZP5	-0.69931
105350	Q2Q067	Q8IXK2	-0.82477
105351	Q2Q067	P47884	-1.4902
105352	Q2Q067	Q9BZ71	-0.88462
105353	Q2Q067	Q9UQ88	-0.35402
105354	Q2Q067	A6NGC4	-1.0345
105355	Q2Q067	Q13451	-0.38912
105356	Q2Q067	Q9NQX4	-0.65992
105357	Q2Q067	Q8WWF1	-0.98666
105358	Q2Q067	P02812	-0.77379
105359	Q2Q067	Q8NFS9	-0.86321
105360	Q2Q067	Q8NGL0	-1.4096
105361	Q2Q067	P11912	-1.047
105362	Q2Q067	P31994	-0.59326
105363	Q2Q067	Q96MN5	-0.21638
105364	Q2Q067	Q5T4S7	-0.45581
105365	Q2Q067	P49184	-0.36901
105366	Q2Q067	P37235	-0.45603
105367	Q2Q067	Q96RU2	-0.39631
105368	Q2Q067	O60494	-0.25236
105369	Q2Q067	P02771	-0.73456
105370	Q2Q067	P26639	-0.22525
105371	Q2Q067	Q1L6U9	-0.98666
105372	Q2Q067	Q8NGQ5	-1.4096
105373	Q2Q067	Q9UJ04	-0.14475
105374	Q2Q067	P05814	-0.95576
105375	Q2Q067	Q8WVF2	-0.97447
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105377	Q2Q067	O00370	-0.37295
105378	Q2Q067	Q8NH87	-1.4096
105379	Q2Q067	Q8N7I0	-0.21987
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105381	Q2Q067	Q9UI12	-0.053808
105382	Q2Q067	P47871	-1.0093
105383	Q2Q067	P28330	-0.30057
105384	Q2Q067	P16284	-0.56865
105385	Q2Q067	P51659	-0.63863
105386	Q2Q067	Q49AH0	-0.90018
105387	Q2Q067	Q9NVP4	-0.73178
105388	Q2Q067	Q6P2H8	-1.0345
105389	Q2Q067	Q9BYM8	-0.22709
105390	Q2Q067	Q9NXH3	-0.26162
105391	Q2Q067	P41229	-0.55673
105392	Q2Q067	Q9H159	-1.3119
105393	Q2Q067	Q9BYW1	-0.93903
105394	Q2Q067	A6NCI4	-0.98666
105395	Q2Q067	P07498	-0.95176
105396	Q2Q067	Q9C056	-0.22753
105397	Q2Q067	P05160	-0.867
105398	Q2Q067	Q9P1V8	-0.22009
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105403	Q2Q067	Q9H2C5	-1.4096
105404	Q2Q067	P04179	-0.19856
105405	Q2Q067	Q16828	-0.27
105406	Q2Q067	Q8NBI6	-1.0949
105407	Q2Q067	Q71UI9	-0.82527
105408	Q2Q067	Q06203	-0.43117
105409	Q2Q067	O95835	-0.22737
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105411	Q2Q067	Q96II8	-0.98666
105412	Q2Q067	P55211	-0.22595



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105414	Q2Q067	Q9HD67	-0.58353
105415	Q2Q067	Q9H0H0	-0.10248
105416	Q2Q067	Q63HM9	-0.80026
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105418	Q2Q067	Q8TC26	-0.95489
105419	Q2Q067	P02042	-0.23916
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105421	Q2Q067	Q9Y5R6	-0.09994
105422	Q2Q067	O95298	-0.38551
105423	Q2Q067	Q9H6P5	-0.75955
105424	Q2Q067	Q9H6Y7	-0.34923
105425	Q2Q067	Q96RJ0	-1.4198
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105427	Q2Q067	O60337	-1.078
105428	Q2Q067	Q8IYM9	-0.22734
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105430	Q2Q067	Q2M3V2	-0.22741
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105436	Q2Q067	Q96S53	-0.89962
105437	Q2Q067	Q9NSI5	-0.64146
105438	Q2Q067	Q9NRZ9	-0.20193
105439	Q2Q067	O60575	-0.90081
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105442	Q2Q067	Q9P0Z9	-0.6762
105443	Q2Q067	O95522	-0.19475
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105446	Q2Q067	Q8N138	-0.44839
105447	Q2Q067	P57729	-1.0241
105448	Q2Q067	P40200	-1.4804
105449	Q2Q067	P01040	-0.2355
105450	Q2Q067	O15303	-1.3265
105451	Q2Q067	Q8TCZ2	-1.251
105452	Q2Q067	Q8WWF6	-0.4622
105453	Q2Q067	Q8N6M3	-0.58925
105454	Q2Q067	Q9P0X4	-0.63824
105455	Q2Q067	O00562	-0.41206
105456	Q2Q067	Q9H0R4	-0.48648
105457	Q2Q067	O15327	-0.19387
105458	Q2Q067	Q8NDY3	-0.37827
105459	Q2Q067	Q9GZV8	-0.12322
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105465	Q2Q067	Q9NXH9	-0.41967
105466	Q2Q067	O95932	-0.39453
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105468	Q2Q067	P25092	-1.0818
105469	Q2Q067	Q99742	-0.33866
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105471	Q2Q067	Q9P286	-0.79141
105472	Q2Q067	Q13478	-1.3681
105473	Q2Q067	P42702	-1.1361
105474	Q2Q067	Q13588	-0.22741
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105476	Q2Q067	Q9P126	-0.61752
105477	Q2Q067	P10643	-0.95532
105478	Q2Q067	A6NNC1	-1.0345
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105482	Q2Q067	Q2WEN9	-0.98507
105483	Q2Q067	Q9HBI1	-0.49456
105484	Q2Q067	Q5TGY3	-0.44839
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105487	Q2Q067	Q32ZL2	-1.1058
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105492	Q2Q067	P02452	-0.32028
105493	Q2Q067	P78539	-0.71323
105494	Q2Q067	Q9BZZ2	-1.737
105495	Q2Q067	Q8WVD3	-0.79637
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105502	Q2Q067	O00180	-1.0388
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105505	Q2Q067	Q8WVN6	-1.632
105506	Q2Q067	O95081	-0.46979
105507	Q2Q067	Q29960	-1.4674
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105516	Q2Q067	O75781	-0.25413
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105519	Q2Q067	Q9UQ90	-0.79086
105520	Q2Q067	Q8NHY0	-0.78507
105521	Q2Q067	Q9BYV6	-0.44079
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105523	Q2Q067	Q6Q8B3	-1.0345
105524	Q2Q067	O00622	-0.48384
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105526	Q2Q067	Q6P4F7	-1.0924
105527	Q2Q067	Q9UF47	-0.57939
105528	Q2Q067	Q96D03	-0.2098
105529	Q2Q067	P30559	-0.96297
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105552	Q2Q067	Q9H4L5	-0.44044
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105556	Q2Q067	Q9H4Q3	-0.22731
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105562	Q2Q067	P05141	-0.22926
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105564	Q2Q067	Q7RTV2	-0.22615

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105573	Q2Q067	A8MTL9	-0.90081
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105576	Q2Q067	Q9H7C9	-0.14727
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105597	Q2Q067	Q8TB45	-0.22741
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105605	Q2Q067	Q92766	-0.21917
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105629	Q2Q067	Q6ZNW5	-0.594
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105632	Q2Q067	Q5T7P6	-1.0345
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105634	Q2Q067	P41968	-1.0091
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105636	Q2Q067	Q8IZF5	-1.5126
105637	Q2Q067	Q9BTX7	-0.67997
105638	Q2Q067	Q8TBY0	-0.96284
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105640	Q2Q067	F5H4A9	-1.0345

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105644	Q2Q067	P01611	-1.1115
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105648	Q2Q067	Q9NVA1	-0.21529
105649	Q2Q067	P61081	-0.21277
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105675	Q2Q067	Q99518	-0.9241
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105680	Q2Q067	P58173	-1.4096
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105682	Q2Q067	Q9NQN1	-1.4096
105683	Q2Q067	A2RUS2	-0.36766
105684	Q2Q067	Q8N431	-0.82882
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105686	Q2Q067	Q9Y5E7	-1.3638
105687	Q2Q067	Q8N4C9	-1.0345
105688	Q2Q067	P21397	-0.7492
105689	Q2Q067	O95076	-0.22739
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105691	Q2Q067	C9JDP6	-0.85798
105692	Q2Q067	Q15529	-1.6361
105693	Q2Q067	Q4G163	-0.18286
105694	Q2Q067	Q9BPU6	-0.21956
105695	Q2Q067	Q96LT9	-0.51726
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117246	Q85601	P01762	-1.1406
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120521	P03346	P53701	-0.16742
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120526	P03346	Q969N2	-0.23492
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120539	P03346	P60891	-0.35408
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120542	P03346	Q86WR7	-0.016226
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120605	P03346	Q9ULZ1	-0.56236
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120932	P03346	Q8IUH2	-0.67752
120933	P03346	Q5VW32	-0.17313
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120935	P03346	Q8TE82	-0.21555
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120938	P03346	O14764	-0.7525
120939	P03346	Q3MJ40	-0.14988
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120959	P03346	Q5T197	-0.56385
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120974	P03346	Q53TN4	-0.70164
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120978	P03346	P29074	-0.22749
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122153	P03346	Q95365	-0.76151
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125843	P03346	Q9C0I4	-0.50365
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133579	P03346	Q5W186	-0.6083
133580	P03346	P62491	-0.24951
133581	P03346	Q8NGI9	-0.92763
133582	P03346	Q5T4H9	-0.013652
133583	P03346	Q9Y585	-0.92763
133584	P03346	A6NDS4	-0.92582
133585	P03346	Q8TC44	-0.22734
133586	P03346	Q5VZP5	-0.28661
133587	P03346	Q8NE35	-0.35728
133588	P03346	P86397	-0.34768
133589	P03346	Q9NVQ4	-0.2776
133590	P03346	O95988	-0.24024
133591	P03346	Q96PC5	-0.53519
133592	P03346	Q5SQS7	-0.22741
133593	P03346	Q8N428	-0.33416
133594	P03346	Q01851	-0.22741
133595	P03346	Q13451	-0.29272
133596	P03346	Q9H611	-0.24891
133597	P03346	Q8N1Q1	-0.22504
133598	P03346	E9PAV3	-0.04757
133599	P03346	Q99643	-0.27003
133600	P03346	Q9ULI4	-0.28695
133601	P03346	Q6ZTQ4	-0.86699
133602	P03346	Q9H6R3	-0.57595
133603	P03346	A6NIR3	-0.65984
133604	P03346	Q8IWZ6	-0.2152
133605	P03346	Q6A555	-0.22883
133606	P03346	Q16831	-0.17551
133607	P03346	Q1L6U9	-0.53519
133608	P03346	Q5T9Z0	-0.50365

133609	P03346	P49863	-1.0507
133610	P03346	Q9UJ71	-0.84581
133611	P03346	Q0Z7S8	-0.21153
133612	P03346	Q5U4P2	-0.67002
133613	P03346	P0C879	-0.013652
133614	P03346	Q8NH87	-0.92763
133615	P03346	Q96S07	-0.013652
133616	P03346	Q2M385	-0.50365
133617	P03346	Q9UKT6	-0.20797
133618	P03346	P23415	-0.39167
133619	P03346	Q9NWH7	-0.84188
133620	P03346	P51659	-0.50867
133621	P03346	Q49AH0	-0.47935
133622	P03346	Q6IEU7	-0.92763
133623	P03346	Q8IUA0	-0.50866
133624	P03346	P56851	-0.49935
133625	P03346	Q9NS82	-0.76504
133626	P03346	A2RUQ5	-0.12875
133627	P03346	Q86UN3	-0.30202
133628	P03346	A6NCI4	-0.53519
133629	P03346	Q7Z5R6	-0.27471
133630	P03346	Q16288	-0.86461
133631	P03346	C9J798	-0.63599
133632	P03346	Q9BYS8	-0.31395
133633	P03346	Q658N2	-0.53349
133634	P03346	Q8N907	-0.42523
133635	P03346	P0C0S8	-0.36293
133636	P03346	Q96N64	-0.22519
133637	P03346	Q9NPC1	-1.1033
133638	P03346	O15178	-0.29578
133639	P03346	O14958	-0.25162
133640	P03346	O95825	-0.47685
133641	P03346	P21108	-0.53671
133642	P03346	O95789	-0.092444
133643	P03346	Q96A59	-0.3782
133644	P03346	Q9HD67	-0.36215
133645	P03346	Q02045	-0.22732
133646	P03346	Q96K49	-0.50365
133647	P03346	Q155Q3	-0.22741
133648	P03346	Q9BZK3	-0.065574
133649	P03346	Q5XXA6	-0.59814
133650	P03346	Q5VT40	-0.068368
133651	P03346	P10398	-0.24526
133652	P03346	Q02985	-0.65384
133653	P03346	Q9H6Y7	-0.23069
133654	P03346	Q8TDL5	-0.78587
133655	P03346	Q96EE4	-0.53519
133656	P03346	O95502	-0.75613
133657	P03346	P48664	-0.78177
133658	P03346	P08F94	-0.22794
133659	P03346	Q96R08	-0.92763
133660	P03346	Q9NS68	-0.40143
133661	P03346	Q5GFL6	-0.64834
133662	P03346	Q96PV4	-0.17559
133663	P03346	P04435	-0.23306
133664	P03346	Q9UNZ2	-0.31261
133665	P03346	Q4V326	-0.24641
133666	P03346	Q02750	-0.22748
133667	P03346	P29274	-0.27532
133668	P03346	Q96A46	-0.51778
133669	P03346	P05166	-0.24198
133670	P03346	P08637	-1.1659
133671	P03346	P15735	-0.41989
133672	P03346	O95998	-0.59533
133673	P03346	P08218	-1.0507
133674	P03346	O60513	-0.35826
133675	P03346	Q6ZXV5	-0.50365
133676	P03346	A6NDY0	-0.22781
133677	P03346	Q8IUH8	-0.76827
133678	P03346	Q9UJA3	-0.22099
133679	P03346	P59036	-0.013652
133680	P03346	P51677	-1.0158
133681	P03346	O00238	-0.5902
133682	P03346	Q6ZVN6	-0.11419
133683	P03346	Q9Y5E8	-0.92414
133684	P03346	P26640	-0.16176

133685	P03346	Q5SWW7	-0.013652
133686	P03346	Q68BL8	-0.60412
133687	P03346	Q02505	-0.98208
133688	P03346	Q02643	-0.25759
133689	P03346	P17181	-0.7191
133690	P03346	Q69YN2	-0.12581
133691	P03346	P20648	-0.90402
133692	P03346	Q8NG80	-0.8116
133693	P03346	Q5T013	-0.19809
133694	P03346	Q9Y6A5	-0.1926
133695	P03346	Q9UHZ2	-0.013652
133696	P03346	P12235	-0.22919
133697	P03346	Q9HCJ2	-0.22748
133698	P03346	Q9GZM8	-0.17925
133699	P03346	A6NGK3	-0.17162
133700	P03346	Q8NH79	-0.92763
133701	P03346	Q8NGX5	-0.92763
133702	P03346	Q9H773	-0.21224
133703	P03346	P00441	-0.22623
133704	P03346	Q9H478	-0.15335
133705	P03346	Q14376	-0.24398
133706	P03346	Q96KJ4	-0.67572
133707	P03346	Q8NGM1	-0.92763
133708	P03346	Q96IK0	-0.63382
133709	P03346	P52943	-0.22758
133710	P03346	Q9HBI1	-0.22742
133711	P03346	Q8NDZ4	-0.44827
133712	P03346	Q60895	-0.19173
133713	P03346	Q95837	-0.75534
133714	P03346	Q95800	-1.0977
133715	P03346	Q96KW2	-0.018609
133716	P03346	P16410	-0.25107
133717	P03346	P25105	-0.71534
133718	P03346	Q96LW2	-0.88651
133719	P03346	Q8IXM7	-0.13133
133720	P03346	P78539	-0.25618
133721	P03346	Q8WVD3	-0.32318
133722	P03346	Q9H2J1	-0.22547
133723	P03346	Q15431	-0.20399
133724	P03346	Q4G0G2	-0.033503
133725	P03346	Q15382	-0.88014
133726	P03346	A8MX76	-0.68447
133727	P03346	Q96JA4	-0.50365
133728	P03346	P0C6S8	-0.50365
133729	P03346	Q96JK4	-0.41535
133730	P03346	Q5TGI4	-0.22741
133731	P03346	P07360	-0.70329
133732	P03346	P46934	-0.22741
133733	P03346	Q86SX6	-0.22503
133734	P03346	Q7Z602	-0.96376
133735	P03346	Q5TH69	-0.59167
133736	P03346	P31645	-0.22725
133737	P03346	Q14492	-0.25706
133738	P03346	P80421	-0.58933
133739	P03346	A7E2U8	-0.09277
133740	P03346	Q43909	-0.54805
133741	P03346	P30466	-0.76151
133742	P03346	Q00461	-0.12981
133743	P03346	Q9BZJ3	-1.0507
133744	P03346	Q70Z35	-0.39231
133745	P03346	Q96IP4	-0.033047
133746	P03346	Q70CQ2	-0.26817
133747	P03346	Q8NG77	-0.92763
133748	P03346	Q9UHC9	-0.22718
133749	P03346	Q86SR1	-0.44078
133750	P03346	Q6ZTZ1	-0.10159
133751	P03346	Q5JXX7	-0.50365
133752	P03346	Q9HBY0	-0.5281
133753	P03346	P01598	-0.80078
133754	P03346	P36959	-0.26327
133755	P03346	Q99418	-0.22741
133756	P03346	B3KS81	-0.14321
133757	P03346	Q8TCQ1	-0.71406
133758	P03346	Q8TBJ4	-0.60869
133759	P03346	Q9BZD6	-0.8425
133760	P03346	Q75414	-0.42115

133761	P03346	P50052	-0.66309
133762	P03346	Q8N655	-0.013652
133763	P03346	Q9Y2H5	-0.22741
133764	P03346	P33527	-0.30729
133765	P03346	P21580	-0.21119
133766	P03346	Q9UBU2	-0.74352
133767	P03346	Q9BU79	-0.50365
133768	P03346	P01374	-0.60083
133769	P03346	P20815	-0.5697
133770	P03346	P00167	-0.30211
133771	P03346	P13224	-0.32249
133772	P03346	Q8NG75	-0.92763
133773	P03346	Q9H488	-0.18758
133774	P03346	A6NNC1	-0.50365
133775	P03346	Q96SF2	-0.29331
133776	P03346	Q8NBF2	-0.22638
133777	P03346	Q96B86	-0.19743
133778	P03346	P60509	-0.65219
133779	P03346	A8MX19	-0.23264
133780	P03346	Q9BSW7	-0.22782
133781	P03346	Q9UGF5	-0.92763
133782	P03346	C9J1S8	-0.30279
133783	P03346	A5D6W6	-0.49936
133784	P03346	Q96GC9	-0.21672
133785	P03346	Q9UIJ7	-0.50653
133786	P03346	Q13009	-0.39406
133787	P03346	Q9UBS0	-0.43577
133788	P03346	P00751	-1.0972
133789	P03346	Q14156	-0.43133
133790	P03346	O14581	-0.92763
133791	P03346	O60285	-0.2274
133792	P03346	O43612	-0.31087
133793	P03346	Q8NHQ9	-0.52228
133794	P03346	P0C7V4	-0.23256
133795	P03346	P13498	-0.25316
133796	P03346	Q8NBT3	-0.50365
133797	P03346	Q86U02	-0.50365
133798	P03346	Q96PD5	-0.66746
133799	P03346	Q96GZ6	-0.64429
133800	P03346	P56746	-0.41247
133801	P03346	O43921	-0.20737
133802	P03346	Q9H967	-0.22734
133803	P03346	Q9NP99	-1.1671
133804	P03346	Q92995	-0.22888
133805	P03346	Q9HAA7	-0.15648
133806	P03346	Q08043	-0.26835
133807	P03346	Q6IED9	-0.12991
133808	P03346	Q14982	-0.52884
133809	P03346	O00206	-0.22741
133810	P03346	P48048	-1.0636
133811	P03346	Q5KSL6	-0.71163
133812	P03346	Q8TE04	-0.29988
133813	P03346	Q6P9A2	-0.42637
133814	P03346	Q92692	-0.22741
133815	P03346	P61163	-0.14626
133816	P03346	Q9BSJ1	-0.30279
133817	P03346	Q16769	-0.82468
133818	P03346	Q96CX6	-0.22825
133819	P03346	Q92637	-0.82506
133820	P03346	Q8IW03	-0.16789
133821	P03346	O60309	-0.50365
133822	P03346	Q15057	-0.65984
133823	P03346	Q9NR20	-0.78289
133824	P03346	Q9H0F7	-0.4968
133825	P03346	Q86X67	-0.19047
133826	P03346	Q5VZI3	-0.50365
133827	P03346	Q9BQ75	-0.22714
133828	P03346	Q93038	-1.0339
133829	P03346	Q16822	-0.15842
133830	P03346	Q8TBP5	-0.50365
133831	P03346	P09326	-0.33808
133832	P03346	Q9BZA7	-1.0148
133833	P03346	O95747	-0.86769
133834	P03346	P14770	-0.76921
133835	P03346	Q8NEV4	-0.63586
133836	P03346	P27144	-0.45576

133837	P03346	P05162	-0.22663
133838	P03346	Q6AI12	-0.22741
133839	P03346	O60476	-0.31236
133840	P03346	Q13065	-0.16187
133841	P03346	Q9NUN7	-0.27017
133842	P03346	Q7Z6M3	-0.76673
133843	P03346	P18825	-0.25942
133844	P03346	Q8NGH9	-0.92763
133845	P03346	P0CG06	-0.75616
133846	P03346	P09936	-0.21647
133847	P03346	Q8NBR0	-0.45568
133848	P03346	Q96DW6	-0.35079
133849	P03346	P00505	-0.22473
133850	P03346	Q5S007	-0.3742
133851	P03346	P22466	-0.20376
133852	P03346	Q9NYW4	-0.78889
133853	P03346	Q8NCC5	-0.42445
133854	P03346	Q8NGZ9	-0.92763
133855	P03346	Q96MS3	-0.40504
133856	P03346	P29033	-0.5397
133857	P03346	Q9NZH8	-0.57928
133858	P03346	Q5DJT8	-0.1741
133859	P03346	Q15032	-0.09081
133860	P03346	Q15109	-0.71592
133861	P03346	A6NHG9	-0.92763
133862	P03346	Q4G0Z9	-0.091681
133863	P03346	Q96A11	-0.41941
133864	P03346	Q9Y3D6	-0.22156
133865	P03346	Q5TEZ5	-0.19935
133866	P03346	Q9Y6Q9	-0.29282
133867	P03346	Q9NPC4	-0.522
133868	P03346	Q01970	-0.22728
133869	P03346	D6RJB6	-0.36346
133870	P03346	Q8N5U1	-0.50365
133871	P03346	Q0P670	-0.50365
133872	P03346	Q6P179	-0.85608
133873	P03346	Q96HH6	-0.50365
133874	P03346	Q04900	-0.97824
133875	P03346	Q9UH03	-0.22637
133876	P03346	Q96033	-0.15767
133877	P03346	P22059	-0.22746
133878	P03346	Q9H2D6	-0.22551
133879	P03346	P01825	-0.80078
133880	P03346	Q969W1	-0.66664
133881	P03346	P46089	-1.0578
133882	P03346	P35368	-0.60758
133883	P03346	Q96IZ5	-0.40469
133884	P03346	P05997	-0.64334
133885	P03346	Q9P104	-0.22163
133886	P03346	Q8NGC5	-0.92763
133887	P03346	A2RUS2	-0.22736
133888	P03346	Q8NG84	-0.92763
133889	P03346	Q9Y5W5	-0.77963
133890	P03346	P49619	-0.77514
133891	P03346	P21941	-0.22741
133892	P03346	Q5H8C1	-1.2045
133893	P03346	Q7L591	-0.18997
133894	P03346	Q9Y228	-0.19279
133895	P03346	P24311	-0.27368
133896	P03346	O75923	-0.55069
133897	P03346	Q16880	-0.47748
133898	P03346	Q9P2X3	-0.15252
133899	P03346	Q8N4G2	-0.29965
133900	P03346	Q6IPW1	-0.010546
133901	P03346	Q9ULL4	-0.39911
133902	P03346	A6NLU5	-0.50365
133903	P03346	Q8NGV5	-0.92763
133904	P03346	P34982	-1.0512
133905	P03346	Q02928	-0.37723
133906	P03346	Q12893	-0.088864
133907	P03346	Q6UWF7	-0.53519
133908	P03346	Q5J8X5	-0.50365
133909	P03346	P34810	-0.65745
133910	P03346	P0CW21	-0.013652
133911	P03346	A0A5B9	-0.50365
133912	P03346	Q2M3C6	-0.50365

133913	P03346	Q9Y6C7	-0.013652
133914	P03346	Q8WVB6	-0.3651
133915	P03346	Q8N112	-0.50365
133916	P03346	Q9BUL5	-0.55871
133917	P03346	O95150	-1.2772
133918	P03346	Q6UW32	-0.11449
133919			



HTLV protein	Targeted human proteins	confidence level	fold change
1	[SECTION 3] Indirect PPI evidences (genes downregulated greater than 1.5 fold in total RNA in the presence of p30)		
2			
3			
4	HTLV1_p30	NMNAT1	0.49203 0.05
5	HTLV1_p30	SDPR	0.30566 0.05
6	HTLV1_p30	GNL3L	0.46564 0.09
7	HTLV1_p30	FBF1	0.46846 0.11
8	HTLV1_p30	TMPO	0.15838 0.15
9	HTLV1_p30	RPL21	0.86977 0.16
10	HTLV1_p30	NDUFV3	0.40343 0.16
11	HTLV1_p30	SMURF2	0.52804 0.20
12	HTLV1_p30	HSF1	0.78198 0.24
13	HTLV1_p30	POLR2C	0.64095 0.25
14	HTLV1_p30	NFIA	0.27602 0.27
15	HTLV1_p30	EXOSC2	0.77531 0.32
16	HTLV1_p30	ETV4	0.37639 0.34
17	HTLV1_p30	PDCD4	1.0884 0.34
18	HTLV1_p30	CENPI	0.42941 0.37
19	HTLV1_p30	BPGM	1.1711 0.37
20	HTLV1_p30	POU3F1	0.24412 0.37
21	HTLV1_p30	ZSCAN20	0.62728 0.38
22	HTLV1_p30	ZNF124	0.2007 0.39
23	HTLV1_p30	MTRF1	0.27476 0.40
24	HTLV1_p30	NUDCD3	0.35289 0.40
25	HTLV1_p30	EIF5A2	0.71056 0.41
26	HTLV1_p30	CBFA2T2	0.82635 0.41
27	HTLV1_p30	PYHIN1	0.18039 0.41
28	HTLV1_p30	CCNC	1.0391 0.42
29	HTLV1_p30	POLH	0.21032 0.42
30	HTLV1_p30	PIN4	0.40702 0.43
31	HTLV1_p30	ATXN1	0.88897 0.44
32	HTLV1_p30	BLZF1	0.31818 0.44
33	HTLV1_p30	PPM1A	0.35275 0.44
34	HTLV1_p30	NQO1	0.40127 0.45
35	HTLV1_p30	DDIT4L	0.26939 0.45
36	HTLV1_p30	ALAS2	0.29461 0.45
37	HTLV1_p30	ZNF71	0.28926 0.45
38	HTLV1_p30	CCNO	0.25109 0.46
39	HTLV1_p30	TNKS2	0.35441 0.46
40	HTLV1_p30	POLD4	0.46207 0.47
41	HTLV1_p30	TRIM33	0.47305 0.47
42	HTLV1_p30	ESRRG	0.33715 0.47
43	HTLV1_p30	NUP205	1.0383 0.47
44	HTLV1_p30	ZNF567	0.22977 0.47
45	HTLV1_p30	SMARCE1	0.95813 0.48
46	HTLV1_p30	SH3BGR	0.59487 0.48
47	HTLV1_p30	ATXN1	0.88897 0.48
48	HTLV1_p30	AP4M1	0.37202 0.50
49	HTLV1_p30	BAZ2B	0.75803 0.50
50	HTLV1_p30	CDKN1C	0.59486 0.50
51	HTLV1_p30	MBD2	1.0442 0.50
52	HTLV1_p30	KCTD7	0.23659 0.50
53	HTLV1_p30	VPRBP	0.90852 0.50
54	HTLV1_p30	IPO9	0.87382 0.51
55	HTLV1_p30	ZNF165	0.65862 0.51
56	HTLV1_p30	CDC42	0.43984 0.52
57	HTLV1_p30	ATRX	0.52614 0.52
58	HTLV1_p30	SAMHD1	0.1586 0.52
59	HTLV1_p30	RSPH3	0.35413 0.53
60	HTLV1_p30	ZNF483	0.50227 0.53
61	HTLV1_p30	PRUNE	0.73946 0.54
62	HTLV1_p30	GOPC	0.77018 0.54
63	HTLV1_p30	ARIH2	0.46582 0.54
64	HTLV1_p30	KLF15	0.31943 0.54
65	HTLV1_p30	DACH1	0.36065 0.54
66	HTLV1_p30	ZC3H11A	0.36483 0.54
67	HTLV1_p30	TST	0.28129 0.54
68	HTLV1_p30	SMC1A	0.37808 0.54
69	HTLV1_p30	ZNF569	0.25059 0.54
70	HTLV1_p30	PHLDA1	0.57007 0.54
71	HTLV1_p30	RBL1	1.2273 0.54
72	HTLV1_p30	ASPM	0.27936 0.55
73	HTLV1_p30	ZNF148	0.69685 0.55
74	HTLV1_p30	HUS1	0.72112 0.55
75	HTLV1_p30		

Section 3 - Indirect PPI evidences (genes downregulated greater than 1.5 fold in t0a1/RA3i2h25presen

76	HTLV1_p30	EPC1	0.48541	0.55
77	HTLV1_p30	ZBTB40	0.24858	0.55
78	HTLV1_p30	ENO3	0.37846	0.56
79	HTLV1_p30	PAX3	0.67312	0.56
80	HTLV1_p30	SNURF	0.39389	0.56
81	HTLV1_p30	BCORL1	0.61791	0.56
82	HTLV1_p30	RPS20	0.88422	0.56
83	HTLV1_p30	CEP70	1.3814	0.56
84	HTLV1_p30	ZNF665	0.38935	0.56
85	HTLV1_p30	ZNF473	0.56686	0.56
86	HTLV1_p30	BEX5	0.85403	0.57
87	HTLV1_p30	MYH14	0.69922	0.57
88	HTLV1_p30	PANK1	0.60862	0.57
89	HTLV1_p30	ZMYM5	0.2378	0.57
90	HTLV1_p30	EXOC3	0.27848	0.57
91	HTLV1_p30	CEP76	0.90358	0.57
92	HTLV1_p30	OGG1	0.49974	0.57
93	HTLV1_p30	DSP	0.23748	0.57
94	HTLV1_p30	MRPL4	0.73176	0.57
95	HTLV1_p30	ISY1	0.9001	0.58
96	HTLV1_p30	RANBP17	0.45878	0.58
97	HTLV1_p30	ZMYM5	0.2378	0.58
98	HTLV1_p30	ITGB1BP1	0.35606	0.58
99	HTLV1_p30	MLLT10	1.2877	0.58
100	HTLV1_p30	ATF7IP2	0.85059	0.58
101	HTLV1_p30	NFAT5	0.12024	0.59
102	HTLV1_p30	MRE11A	0.1603	0.59
103	HTLV1_p30	PFDN4	1.1153	0.59
104	HTLV1_p30	SAMD4A	0.3579	0.59
105	HTLV1_p30	FIP1L1	1.0398	0.59
106	HTLV1_p30	PPP1R13B	0.85509	0.59
107	HTLV1_p30	ATP5F1	0.28573	0.59
108	HTLV1_p30	PCM1	0.55287	0.60
109	HTLV1_p30	DMAP1	0.8302	0.60
110	HTLV1_p30	PARD6B	0.62295	0.60
111	HTLV1_p30	ZNF2	0.38137	0.60
112	HTLV1_p30	ZNF222	0.29235	0.60
113	HTLV1_p30	TWISTNB	0.1779	0.60
114	HTLV1_p30	HNRNPU	0.34975	0.61
115	HTLV1_p30	NOL7	0.8529	0.61
116	HTLV1_p30	E2F1	0.62832	0.61
117	HTLV1_p30	PGM5	0.033126	0.61
118	HTLV1_p30	POLR1A	0.58036	0.61
119	HTLV1_p30	SERF2	0.75796	0.61
120	HTLV1_p30	CARS	0.59731	0.61
121	HTLV1_p30	HOXB9	0.98819	0.61
122	HTLV1_p30	MON1B	0.85823	0.61
123	HTLV1_p30	ZNF202	0.29867	0.61
124	HTLV1_p30	FBXO32	0.10974	0.62
125	HTLV1_p30	HINT3	0.49557	0.62
126	HTLV1_p30	DCP2	1.0385	0.62
127	HTLV1_p30	PHKB	0.31572	0.62
128	HTLV1_p30	IFT57	0.46867	0.62
129	HTLV1_p30	ZNF583	0.51762	0.62
130	HTLV1_p30	KIAA0141	0.4753	0.62
131	HTLV1_p30	ZNF684	0.20437	0.62
132	HTLV1_p30	ELK1	1.1966	0.62
133	HTLV1_p30	MAP4	0.3152	0.63
134	HTLV1_p30	TPPP	0.35929	0.63
135	HTLV1_p30	COPS7B	0.17821	0.63
136	HTLV1_p30	CARD8	0.44567	0.63
137	HTLV1_p30	CBFA2T2	0.82635	0.63
138	HTLV1_p30	VGLL4	0.39389	0.63
139	HTLV1_p30	UBE2B	0.91374	0.63
140	HTLV1_p30	NUP107	0.8195	0.63
141	HTLV1_p30	MPHOSPH8	0.64513	0.63
142	HTLV1_p30	MRPS22	0.19627	0.63
143	HTLV1_p30	GLE1	0.78409	0.63
144	HTLV1_p30	MOCS2	0.20122	0.63
145	HTLV1_p30	NUP188	0.59971	0.63
146	HTLV1_p30	BAG4	0.31074	0.63
147	HTLV1_p30	SULT2B1	0.62852	0.64
148	HTLV1_p30	TSFM	1.0755	0.64
149	HTLV1_p30	NFKBIB	1.0113	0.64
150	HTLV1_p30	MAP9	0.79446	0.64
151	HTLV1_p30	TOX4	0.58949	0.64

Section 3 - Indirect PPI evidences (genes downregulated greater than 1.5 fold in t0a1/RA3i2h25presen

152	HTLV1_p30	RANBP17	0.45878	0.64
153	HTLV1_p30	FDPS	0.52869	0.64
154	HTLV1_p30	SH3BP5	0.36513	0.64
155	HTLV1_p30	PRKRIP1	0.31171	0.64
156	HTLV1_p30	MSH3	0.030835	0.64
157	HTLV1_p30	SPSB4	0.46359	0.64
158	HTLV1_p30	TOP1	0.60677	0.64
159	HTLV1_p30	SOX12	0.35159	0.64
160	HTLV1_p30	PBX1	0.57258	0.64
161	HTLV1_p30	BCL9	0.75022	0.64
162	HTLV1_p30	PEX14	0.24388	0.64
163	HTLV1_p30	ZNF443	0.4876	0.64
164	HTLV1_p30	ZNF302	0.22197	0.65
165	HTLV1_p30	ELOVL7	0.9999	0.65
166	HTLV1_p30	NCOA5	1.0428	0.65
167	HTLV1_p30	ILKAP	0.6432	0.65
168	HTLV1_p30	POLH	0.21032	0.65
169	HTLV1_p30	TNRC6B	0.44757	0.65
170	HTLV1_p30	CTPS2	0.33618	0.65
171	HTLV1_p30	ATF2	0.78122	0.65
172	HTLV1_p30	NPAS2	0.51557	0.65
173	HTLV1_p30	FAM122A	0.3662	0.65
174	HTLV1_p30	ZNF286A	0.25299	0.66
175	HTLV1_p30	ZKSCAN2	0.34481	0.66
176	HTLV1_p30	BCOR	0.36427	0.66
177	HTLV1_p30	SORBS3	0.62137	0.66
178	HTLV1_p30	FZR1	1.1668	0.66
179	HTLV1_p30	WIPF1	0.16196	0.66
180	HTLV1_p30	BCL2A1	0.45556	0.66
181	HTLV1_p30	FLII	0.98457	0.66
182	HTLV1_p30	RCHY1	0.52843	0.66
183	HTLV1_p30	CENPF	0.52394	0.66
184	HTLV1_p30	SPC24	0.73405	0.66
185	HTLV1_p30	SENP6	0.38815	0.66
186	HTLV1_p30	TEX15	0.39984	0.66
187	HTLV1_p30	S100A4	0.3001	0.66
188	HTLV1_p30	SUMO1	0.83585	0.66
189	HTLV1_p30	ZNF766	0.43572	0.66
190	HTLV1_p30	EIF4G1	0.65365	0.66
191	HTLV1_p30	HIF1AN	0.58393	0.66
192	HTLV1_p30	SAP18	1.2352	0.66
193	HTLV1_p30	WASL	0.73048	0.66
194	HTLV1_p30	ZNF649	0.1962	0.66
195	HTLV1_p30	ZNF331	0.31277	0.66
196	HTLV1_p30	SMAD3	0.46043	0.66
197	HTLV1_p30	PPP2R1B	0.25227	0.67
198	HTLV1_p30	CHD4	0.53135	0.67
199	HTLV1_p30	CHAC1	0.81568	0.67
200	HTLV1_p30	SPTY2D1	0.24937	0.67
201	HTLV1_p30	GK	0.34829	0.67
202	HTLV1_p30	IRF9	0.96962	0.67
203	HTLV1_p30	SGOL1	0.68952	0.67
204	HTLV1_p30	PHC2	0.13893	0.67
205	HTLV1_p30	POMP	0.42707	0.67
206	HTLV1_p30	SRA1	0.45833	0.67
207	HTLV1_p30	TRIM21	0.45316	0.67
208	HTLV1_p30	ZNF638	0.14786	0.67
209				

1	[SECTION 4]	Indirect PPI evidences (genes upregulated greater than 1.5 fold in total RNA in the presence of p30)			
2					
3					
4	HTLV	proein	Targeted human proteins	confidence level	fold change
5	HTLV1_p30	TPI1	0.50715	3.63	
6	HTLV1_p30	PHF6	0.47654	3.23	
7	HTLV1_p30	CCDC82	0.24937	2.69	
8	HTLV1_p30	MED18	0.98887	2.68	
9	HTLV1_p30	SDCCAG8	0.92082	2.53	
10	HTLV1_p30	AURKAIP1	0.84438	2.49	
11	HTLV1_p30	ZNF652	0.56957	2.41	
12	HTLV1_p30	TRIM5	0.63635	2.39	
13	HTLV1_p30	CCDC88C	0.24212	2.31	
14	HTLV1_p30	TFAM	0.88237	2.28	
15	HTLV1_p30	CNOT4	0.91542	2.28	
16	HTLV1_p30	SSU72	0.22305	2.25	
17	HTLV1_p30	PRPF31	0.33639	2.20	
18	HTLV1_p30	GTF2H2	0.49337	2.17	
19	HTLV1_p30	CCDC69	0.78682	2.16	
20	HTLV1_p30	MYNN	0.20138	2.16	
21	HTLV1_p30	LIN54	0.46638	2.16	
22	HTLV1_p30	BHLHB9	0.38622	2.16	
23	HTLV1_p30	TEAD3	1.0319	2.13	
24	HTLV1_p30	LSM11	0.64813	2.13	
25	HTLV1_p30	LRRCC1	0.84614	2.12	
26	HTLV1_p30	ZNF26	0.34363	2.11	
27	HTLV1_p30	CDKN2AIPNL	0.92792	2.10	
28	HTLV1_p30	ZFX	0.25573	2.07	
29	HTLV1_p30	ZNF197	0.3804	2.01	
30	HTLV1_p30	EIF2A	0.35213	1.99	
31	HTLV1_p30	BCL3	0.36341	1.95	
32	HTLV1_p30	FAM63B	1.4967	1.95	
33	HTLV1_p30	RBM39	0.77553	1.94	
34	HTLV1_p30	CNOT3	1.5103	1.90	
35	HTLV1_p30	KIAA1430	0.24937	1.89	
36	HTLV1_p30	NACAP1	0.53566	1.89	
37	HTLV1_p30	ZEB1	0.69456	1.88	
38	HTLV1_p30	FANCD2	0.68317	1.87	
39	HTLV1_p30	MATR3	0.16507	1.86	
40	HTLV1_p30	POLR3C	0.16748	1.86	
41	HTLV1_p30	INTS4	0.54729	1.84	
42	HTLV1_p30	GUSBP1	0.40142	1.82	
43	HTLV1_p30	KIAA1731	0.50735	1.81	
44	HTLV1_p30	BBC3	0.40266	1.80	
45	HTLV1_p30	NECAB2	0.37391	1.80	
46	HTLV1_p30	EMD	0.19811	1.79	
47	HTLV1_p30	ZNF467	0.20212	1.79	
48	HTLV1_p30	TP73	0.27346	1.79	
49	HTLV1_p30	FBRS	0.32226	1.77	
50	HTLV1_p30	PKNOX1	0.3198	1.77	
51	HTLV1_p30	KLF5	0.25691	1.75	
52	HTLV1_p30	CUL2	0.7745	1.75	
53	HTLV1_p30	SORBS1	0.31092	1.75	
54	HTLV1_p30	STAP1	0.76617	1.75	
55	HTLV1_p30	BCL10	0.19354	1.74	
56	HTLV1_p30	FNIP1	0.83638	1.74	
57	HTLV1_p30	ELOVL5	0.17897	1.73	
58	HTLV1_p30	ZNF107	0.37211	1.73	
59	HTLV1_p30	SCAMP1	0.25478	1.72	
60	HTLV1_p30	DIP2A	0.2927	1.72	
61	HTLV1_p30	NUB1	0.71298	1.71	
62	HTLV1_p30	ELP2	0.54942	1.71	
63	HTLV1_p30	PSMB2	0.57107	1.71	
64	HTLV1_p30	NUDT6	0.56787	1.70	
65	HTLV1_p30	API5	0.35381	1.70	
66	HTLV1_p30	HOOK3	0.26595	1.70	
67	HTLV1_p30	LRPPRC	0.90103	1.69	
68	HTLV1_p30	YY1AP1	1.3951	1.69	
69	HTLV1_p30	GATAD2B	0.41939	1.68	
70	HTLV1_p30	ZNF397	0.27602	1.68	
71	HTLV1_p30	ATP6V1H	0.056885	1.68	
72	HTLV1_p30	TARS2	0.57851	1.68	
73	HTLV1_p30	CCDC74A	0.46157	1.67	
74	HTLV1_p30	HSP90B1	0.8256	1.67	
75	HTLV1_p30	ZNF32	0.21141	1.67	

Section 4 - Indirect PPI evidences (genes upregulated greater than 1.5 fold in tot201#NA2ist2: presence

76	HTLV1_p30	ZKSCAN1	0.43208	1.67
77	HTLV1_p30	CCDC127	0.55913	1.67
78	HTLV1_p30	MAGEF1	0.071673	1.67
79	HTLV1_p30	FGFR1OP2	0.22364	1.66
80	HTLV1_p30	RPL35	1.0598	1.66
81	HTLV1_p30	VPRBP	0.90852	1.66
82	HTLV1_p30	TIFA	0.27276	1.65
83	HTLV1_p30	TOLLIP	0.26572	1.65
84	HTLV1_p30	ZNF548	0.30414	1.65
85	HTLV1_p30	PDS5A	0.94319	1.65
86	HTLV1_p30	ANP32A	1.4878	1.65
87	HTLV1_p30	PATL1	0.93199	1.65
88	HTLV1_p30	SEC24D	0.38305	1.65
89	HTLV1_p30	TMPO	0.15838	1.65
90	HTLV1_p30	GTF2H2	0.49337	1.64
91	HTLV1_p30	SKIL	0.26208	1.64
92	HTLV1_p30	PRICKLE1	0.8875	1.63
93	HTLV1_p30	SEC22B	0.14369	1.63
94	HTLV1_p30	POLR3D	0.177	1.63
95	HTLV1_p30	SETD3	0.25096	1.63
96	HTLV1_p30	SASS6	0.63845	1.63
97	HTLV1_p30	FAM63A	1.1916	1.62
98	HTLV1_p30	RPS10	1.5586	1.62
99	HTLV1_p30	FCF1	0.87996	1.61
100	HTLV1_p30	STRN4	0.34365	1.61
101	HTLV1_p30	LNX2	0.75722	1.61
102	HTLV1_p30	NIN	0.38694	1.61
103	HTLV1_p30	ZNF628	0.24669	1.61
104	HTLV1_p30	RRP1	0.75131	1.60
105	HTLV1_p30	SAFB	0.76988	1.60
106	HTLV1_p30	ATXN2	0.7552	1.59
107	HTLV1_p30	VPRBP	0.90852	1.59
108	HTLV1_p30	GLS	0.70937	1.59
109	HTLV1_p30	MZF1	0.64714	1.59
110	HTLV1_p30	ZNF430	0.4838	1.58
111	HTLV1_p30	CEP350	0.50552	1.58
112	HTLV1_p30	HSPD1	0.22074	1.58
113	HTLV1_p30	VHL	0.94418	1.57
114	HTLV1_p30	TFIP11	0.30927	1.57
115	HTLV1_p30	LUC7L2	0.6544	1.57
116	HTLV1_p30	CDC27	1.1311	1.57
117	HTLV1_p30	SUPT5H	0.97958	1.57
118	HTLV1_p30	SSBP3	0.59458	1.57
119	HTLV1_p30	ZNF175	0.3031	1.57
120	HTLV1_p30	MBD1	0.42099	1.57
121	HTLV1_p30	ZNF638	0.14786	1.56
122	HTLV1_p30	LIN7A	0.46813	1.56
123	HTLV1_p30	SUPT7L	0.46776	1.56
124	HTLV1_p30	TAF1B	0.35578	1.56
125	HTLV1_p30	ZNF92	0.46545	1.55
126	HTLV1_p30	ATXN7L3	0.83329	1.55
127	HTLV1_p30	HEATR1	1.043	1.55
128	HTLV1_p30	ZNF430	0.4838	1.55
129	HTLV1_p30	RMND5B	0.079678	1.55
130	HTLV1_p30	NCDN	0.37249	1.55
131	HTLV1_p30	PHKA1	0.28008	1.55
132	HTLV1_p30	DBNDD2	0.50131	1.54
133	HTLV1_p30	FGFR1OP	0.85563	1.54
134	HTLV1_p30	HDAC8	0.36813	1.54
135	HTLV1_p30	PRR14	0.24937	1.54
136	HTLV1_p30	PCGF3	0.85785	1.54
137	HTLV1_p30	WDHD1	0.30282	1.53
138	HTLV1_p30	CCT4	0.40261	1.53
139	HTLV1_p30	SPATS2	0.44203	1.53
140	HTLV1_p30	GINS4	0.44262	1.53
141	HTLV1_p30	LSM11	0.64813	1.53
142	HTLV1_p30	MRPS25	0.95947	1.53
143	HTLV1_p30	YRDC	0.61031	1.53
144	HTLV1_p30	ZNF519	0.44782	1.53
145	HTLV1_p30	PIAS2	0.74882	1.53
146	HTLV1_p30	ELOVL2	0.18079	1.53
147	HTLV1_p30	RANBP2	0.91022	1.53
148	HTLV1_p30	EPC1	0.48541	1.52
149	HTLV1_p30	ZNF680	0.49815	1.52
150	HTLV1_p30	AP3S2	0.07925	1.52
151	HTLV1_p30	PDP2	0.18697	1.52

Section 4 - Indirect PPI evidences (genes upregulated greater than 1.5 fold in total RNAi screen) Presence

152	HTLV1_p30	OCIAD1	0.46318	1.52
153	HTLV1_p30	FECH	0.082794	1.52
154	HTLV1_p30	RPL10	0.87273	1.52
155	HTLV1_p30	CD2BP2	0.74605	1.51
156	HTLV1_p30	HABP4	0.99479	1.51
157	HTLV1_p30	KHSRP	0.87102	1.51
158	HTLV1_p30	CCDC74B	0.46157	1.51
159	HTLV1_p30	ZMYM5	0.2378	1.51
160	HTLV1_p30	HIP1	0.35682	1.51
161	HTLV1_p30	UBE3C	0.4942	1.51
162	HTLV1_p30	CEP70	1.3814	1.51
163	HTLV1_p30	KIF2A	0.29899	1.50
164	HTLV1_p30	PLEKHM2	0.3113	1.50
165	HTLV1_p30	ZNF542	0.13091	1.50
166	HTLV1_p30	CC2D1A	0.14168	1.50
167				

[SECTION 5] Indirect PPI evidences (genes downregulated greater than 1.5 fold in the cytoplasm in the presence of p30)			
	HTLV protein	Targeted human proteins	confidence level fold change
4	HTLV1_p30	BRE	0.31845 0.01
5	HTLV1_p30	REPS2	0.35117 0.06
6	HTLV1_p30	HEATR6	0.48229 0.11
7	HTLV1_p30	AKAP8L	0.49779 0.11
8	HTLV1_p30	PELI1	0.64025 0.13
9	HTLV1_p30	ZNF37A	0.28667 0.14
10	HTLV1_p30	ANK1	0.23817 0.16
11	HTLV1_p30	DLGAP4	0.13406 0.20
12	HTLV1_p30	SAMHD1	0.1586 0.21
13	HTLV1_p30	NCK1	0.72469 0.25
14	HTLV1_p30	DLG1	0.83302 0.26
15	HTLV1_p30	NUP133	0.73135 0.27
16	HTLV1_p30	RNF146	0.64211 0.28
17	HTLV1_p30	CDC42SE1	0.49591 0.28
18	HTLV1_p30	PATZ1	0.18816 0.29
19	HTLV1_p30	SSBP2	0.34419 0.29
20	HTLV1_p30	ZNF711	0.5484 0.30
21	HTLV1_p30	VPS41	0.39069 0.31
22	HTLV1_p30	FAM107B	0.47683 0.32
23	HTLV1_p30	HDAC3	0.50392 0.32
24	HTLV1_p30	SMYD2	0.74098 0.35
25	HTLV1_p30	ARFGEF1	0.61115 0.35
26	HTLV1_p30	GYG2	0.24938 0.36
27	HTLV1_p30	GON4L	0.57316 0.36
28	HTLV1_p30	ATP5F1	0.28573 0.37
29	HTLV1_p30	RERE	0.94251 0.38
30	HTLV1_p30	PAPOLA	0.22844 0.38
31	HTLV1_p30	EPC1	0.48541 0.39
32	HTLV1_p30	WTAP	0.37377 0.39
33	HTLV1_p30	ERRFI1	0.37353 0.39
34	HTLV1_p30	HSF1	0.78198 0.40
35	HTLV1_p30	FANCD2	0.68317 0.41
36	HTLV1_p30	MIER3	0.47392 0.42
37	HTLV1_p30	TRPS1	0.34568 0.43
38	HTLV1_p30	ATF7IP	0.94906 0.43
39	HTLV1_p30	ZC3H13	0.86928 0.43
40	HTLV1_p30	PPIG	0.69288 0.44
41	HTLV1_p30	TAF1	0.38579 0.44
42	HTLV1_p30	BRD4	0.66225 0.45
43	HTLV1_p30	ZNF710	0.21165 0.45
44	HTLV1_p30	TOX4	0.58949 0.45
45	HTLV1_p30	MNS1	0.80476 0.46
46	HTLV1_p30	CEP164	1.521 0.46
47	HTLV1_p30	SPAG17	0.50185 0.46
48	HTLV1_p30	RANBP2	0.91022 0.47
49	HTLV1_p30	EXOSC1	0.98343 0.47
50	HTLV1_p30	PCK2	0.25585 0.47
51	HTLV1_p30	ZNF607	0.36207 0.48
52	HTLV1_p30	EWSR1	0.64756 0.48
53	HTLV1_p30	ZNF608	1.0498 0.49
54	HTLV1_p30	NCOA2	0.62658 0.49
55	HTLV1_p30	RBM25	0.42896 0.49
56	HTLV1_p30	BICD2	0.15813 0.49
57	HTLV1_p30	ASMTL	0.5976 0.49
58	HTLV1_p30	RGP1	0.81442 0.49
59	HTLV1_p30	RBMX	0.60754 0.49
60	HTLV1_p30	DPH1	0.19561 0.49
61	HTLV1_p30	PLSCR1	0.27629 0.49
62	HTLV1_p30	ZBTB24	0.56957 0.50
63	HTLV1_p30	ZMYM2	0.70238 0.50
64	HTLV1_p30	ZZZ3	0.34015 0.50
65	HTLV1_p30	ZZZ3	0.34015 0.50
66	HTLV1_p30	DMD	0.44053 0.50
67	HTLV1_p30	TATDN3	0.23495 0.50
68	HTLV1_p30	CCNE2	0.96219 0.50
69	HTLV1_p30	TCEAL7	0.45356 0.50
70	HTLV1_p30	KIAA1107	0.17012 0.50
71	HTLV1_p30	CDK6	0.488 0.51
72	HTLV1_p30	INTS6	0.65124 0.51
73	HTLV1_p30	GINS4	0.44262 0.51
74	HTLV1_p30	LPXN	0.35812 0.51

Section 5 - Indirect PPI evidences (genes downregulated greater than 1.5 fold in the presence of the protein)

76	HTLV1_p30	ELOVL5	0.17897	0.51
77	HTLV1_p30	CDC37L1	0.25373	0.52
78	HTLV1_p30	VPS4A	0.45057	0.52
79	HTLV1_p30	YTHDF3	0.46322	0.52
80	HTLV1_p30	YTHDC1	0.6466	0.52
81	HTLV1_p30	MCM10	0.9859	0.52
82	HTLV1_p30	PIAS2	0.74882	0.52
83	HTLV1_p30	ZNF93	0.43494	0.52
84	HTLV1_p30	CEP350	0.50552	0.53
85	HTLV1_p30	RCL1	0.52746	0.53
86	HTLV1_p30	NOL3	0.89984	0.53
87	HTLV1_p30	TRO	0.27301	0.53
88	HTLV1_p30	DLST	0.21972	0.53
89	HTLV1_p30	TRRAP	0.75689	0.53
90	HTLV1_p30	NFIB	0.16344	0.53
91	HTLV1_p30	ZNF710	0.21165	0.53
92	HTLV1_p30	ZNF337	0.21809	0.53
93	HTLV1_p30	FLYWCH1	0.16987	0.54
94	HTLV1_p30	SF3B1	0.22879	0.54
95	HTLV1_p30	KIAA1211	0.24937	0.54
96	HTLV1_p30	CTNNBIP1	0.74772	0.54
97	HTLV1_p30	MPHOSPH9	0.2475	0.54
98	HTLV1_p30	AP1S1	0.26698	0.54
99	HTLV1_p30	TSPYL1	0.89424	0.55
100	HTLV1_p30	KIAA1731	0.50735	0.55
101	HTLV1_p30	ATRX	0.52614	0.55
102	HTLV1_p30	FAM63B	1.4967	0.55
103	HTLV1_p30	WAC	0.88855	0.55
104	HTLV1_p30	SKI	0.13003	0.55
105	HTLV1_p30	CTDP1	0.56063	0.55
106	HTLV1_p30	ACO2	0.16285	0.55
107	HTLV1_p30	MRPS12	0.73233	0.56
108	HTLV1_p30	PCGF3	0.85785	0.56
109	HTLV1_p30	AFF4	1.3515	0.56
110	HTLV1_p30	RPS14	0.72831	0.56
111	HTLV1_p30	MED12	0.45437	0.56
112	HTLV1_p30	FNIP1	0.83638	0.56
113	HTLV1_p30	BRWD1	0.83245	0.56
114	HTLV1_p30	GLE1	0.78409	0.56
115	HTLV1_p30	ZCCHC7	0.46382	0.56
116	HTLV1_p30	OXR1	0.14574	0.57
117	HTLV1_p30	EIF3B	0.41809	0.57
118	HTLV1_p30	SPATA18	0.37432	0.57
119	HTLV1_p30	GOLGA3	0.27173	0.57
120	HTLV1_p30	ZNF397	0.27602	0.57
121	HTLV1_p30	THOC2	0.45307	0.57
122	HTLV1_p30	EIF3A	1.2231	0.57
123	HTLV1_p30	HBP1	0.16353	0.57
124	HTLV1_p30	TFCP2L1	0.44388	0.57
125	HTLV1_p30	METTL9	0.26948	0.58
126	HTLV1_p30	ZC3HAV1	0.42133	0.58
127	HTLV1_p30	THEM4	0.67768	0.58
128	HTLV1_p30	CCDC82	0.24937	0.58
129	HTLV1_p30	SMARCA2	0.60383	0.58
130	HTLV1_p30	CLASP1	0.34361	0.58
131	HTLV1_p30	SH3BGR1	0.16541	0.58
132	HTLV1_p30	PPM1A	0.35275	0.58
133	HTLV1_p30	PACS2	0.59786	0.58
134	HTLV1_p30	HEATR2	0.016653	0.58
135	HTLV1_p30	CCNT2	0.97467	0.58
136	HTLV1_p30	CIRBP	0.27112	0.58
137	HTLV1_p30	ZNF675	0.5619	0.59
138	HTLV1_p30	IRF4	0.8414	0.59
139	HTLV1_p30	DHX9	0.32001	0.59
140	HTLV1_p30	FANCC	0.80726	0.59
141	HTLV1_p30	TFDP1	1.1233	0.59
142	HTLV1_p30	COG3	0.71187	0.59
143	HTLV1_p30	EIF5B	0.3278	0.59
144	HTLV1_p30	ZNF32	0.21141	0.59
145	HTLV1_p30	FXR1	0.014757	0.59
146	HTLV1_p30	GLTSCR1	0.89875	0.60
147	HTLV1_p30	PDCD10	0.67837	0.60
148	HTLV1_p30	AIP	0.79955	0.60
149	HTLV1_p30	HDDC2	0.28632	0.60
150	HTLV1_p30	SMARCC1	0.10665	0.60
151	HTLV1_p30	TFDP2	0.62021	0.60



152	HTLV1_p30	MTF1	0.79	0.60
153	HTLV1_p30	HSP90B1	0.8256	0.60
154	HTLV1_p30	FGFR1OP2	0.22364	0.61
155	HTLV1_p30	CENPA	0.23893	0.61
156	HTLV1_p30	SHMT1	0.26602	0.61
157	HTLV1_p30	MAP3K7	0.47939	0.61
158	HTLV1_p30	CDYL	0.21984	0.61
159	HTLV1_p30	TTC5	0.22269	0.61
160	HTLV1_p30	TFCP2	0.28267	0.61
161	HTLV1_p30	DISC1	0.27882	0.61
162	HTLV1_p30	DCUN1D2	0.0027648	0.61
163	HTLV1_p30	TFIP11	0.30927	0.61
164	HTLV1_p30	PRPF40A	0.83371	0.61
165	HTLV1_p30	CBX5	0.7101	0.62
166	HTLV1_p30	ZNF227	0.26904	0.62
167	HTLV1_p30	MIER1	1.0706	0.62
168	HTLV1_p30	GTF2A1	1.1378	0.62
169	HTLV1_p30	ARID2	0.44846	0.62
170	HTLV1_p30	HADHA	0.36045	0.62
171	HTLV1_p30	GYG2	0.24938	0.62
172	HTLV1_p30	RSC1A1	0.34102	0.62
173	HTLV1_p30	SETD4	0.045664	0.62
174	HTLV1_p30	CDC73	0.54427	0.62
175	HTLV1_p30	PRPF40A	0.83371	0.62
176	HTLV1_p30	PDS5B	0.73965	0.63
177	HTLV1_p30	MPI	0.14413	0.63
178	HTLV1_p30	RARS2	1.0723	0.63
179	HTLV1_p30	AURKAIP1	0.84438	0.63
180	HTLV1_p30	WDR4	0.84065	0.63
181	HTLV1_p30	CAND1	0.72005	0.63
182	HTLV1_p30	NASP	0.61984	0.63
183	HTLV1_p30	SH3GLB2	0.38819	0.63
184	HTLV1_p30	SP140	0.52812	0.63
185	HTLV1_p30	EIF4E2	0.63408	0.63
186	HTLV1_p30	CDKN2AIPNL	0.92792	0.63
187	HTLV1_p30	PSAT1	0.18141	0.64
188	HTLV1_p30	TRAF3	0.4559	0.64
189	HTLV1_p30	ARIH2	0.46582	0.64
190	HTLV1_p30	RIF1	0.8131	0.64
191	HTLV1_p30	UBTD2	0.35391	0.64
192	HTLV1_p30	LDHC	1.0002	0.64
193	HTLV1_p30	TPD52L1	0.38258	0.64
194	HTLV1_p30	ASCC1	0.31448	0.64
195	HTLV1_p30	FIP1L1	1.0398	0.64
196	HTLV1_p30	DHX36	0.32166	0.64
197	HTLV1_p30	TTC19	0.85131	0.64
198	HTLV1_p30	NFATC2IP	0.45436	0.64
199	HTLV1_p30	CDC27	1.1311	0.64
200	HTLV1_p30	SUPT6H	0.43529	0.64
201	HTLV1_p30	TTF1	0.69493	0.64
202	HTLV1_p30	RPE	0.10981	0.64
203	HTLV1_p30	GSTZ1	0.67107	0.64
204	HTLV1_p30	IPO9	0.87382	0.65
205	HTLV1_p30	TBRG1	0.41251	0.65
206	HTLV1_p30	ZKSCAN3	0.24903	0.65
207	HTLV1_p30	CEBPZ	0.2973	0.65
208	HTLV1_p30	RANBP9	0.99641	0.65
209	HTLV1_p30	CKAP2	0.22913	0.65
210	HTLV1_p30	ZW10	0.49313	0.65
211	HTLV1_p30	MRPS25	0.95947	0.65
212	HTLV1_p30	MBNL1	0.41397	0.65
213	HTLV1_p30	SMC5	0.3217	0.65
214	HTLV1_p30	WAPAL	0.68035	0.65
215	HTLV1_p30	VPS26B	0.22528	0.65
216	HTLV1_p30	CFLAR	0.23423	0.65
217	HTLV1_p30	TNKS2	0.35441	0.65
218	HTLV1_p30	ZKSCAN4	0.25668	0.65
219	HTLV1_p30	UBE2Z	0.85583	0.65
220	HTLV1_p30	TCF4	0.48509	0.65
221	HTLV1_p30	HOOK3	0.26595	0.65
222	HTLV1_p30	PRPH	0.37466	0.65
223	HTLV1_p30	NFIB	0.16344	0.65
224	HTLV1_p30	DNAJB5	0.92441	0.65
225	HTLV1_p30	PKNOX1	0.3198	0.65
226	HTLV1_p30	PGM3	0.98672	0.65
227	HTLV1_p30	FBXW2	0.33409	0.65

Section 5 - Indirect PPI evidences (genes downregulated greater than 1.5 fold in the presence of HTLV1 p30)

228	HTLV1_p30	SYCP2L	0.89936	0.66
229	HTLV1_p30	USH1C	0.36196	0.66
230	HTLV1_p30	FAM115A	0.2489	0.66
231	HTLV1_p30	REXO2	0.23108	0.66
232	HTLV1_p30	LSM2	0.79467	0.66
233	HTLV1_p30	ZNF793	0.28997	0.66
234	HTLV1_p30	FBXL4	0.46131	0.66
235	HTLV1_p30	LUC7L	0.81084	0.66
236	HTLV1_p30	CCRN4L	0.38387	0.66
237	HTLV1_p30	MPHOSPH8	0.64513	0.66
238	HTLV1_p30	MED6	0.62749	0.66
239	HTLV1_p30	LLGL2	0.74349	0.66
240	HTLV1_p30	NDNL2	0.75044	0.66
241	HTLV1_p30	RPE	0.10981	0.66
242	HTLV1_p30	PRUNE	0.73946	0.66
243	HTLV1_p30	RSF1	0.62292	0.66
244	HTLV1_p30	ACLY	0.24387	0.66
245	HTLV1_p30	GPRASP1	0.45292	0.66
246	HTLV1_p30	PNN	0.81129	0.66
247	HTLV1_p30	MCC	0.32816	0.66
248	HTLV1_p30	KPNA4	0.5405	0.66
249	HTLV1_p30	DIS3	0.66363	0.66
250	HTLV1_p30	RBM15	0.38304	0.67
251	HTLV1_p30	MED9	1.2889	0.67
252	HTLV1_p30	DDX17	0.6965	0.67
253	HTLV1_p30	BIRC5	0.24338	0.67
254	HTLV1_p30	BBX	0.242	0.67
255	HTLV1_p30	UPF1	0.62181	0.67
256	HTLV1_p30	APBB2	0.64553	0.67
257	HTLV1_p30	TMLHE	0.33741	0.67
258	HTLV1_p30	ATF7	0.94644	0.67
259	HTLV1_p30	HIC2	0.073138	0.67
260	HTLV1_p30	ZNF777	0.23038	0.67
261	HTLV1_p30	EPN1	0.052121	0.67
262	HTLV1_p30	CCS	0.54518	0.67
263	HTLV1_p30	ZNF367	0.33161	0.67
264				

1	[SECTION 6] Indirect PPI evidences (genes upregulated greater than 1.5 fold in the cytoplasm in the presence of p30)			
2				
3				
4	HTLV protein	Targeted human proteins	confidence level	fold change
5	HTLV1_p30	RPUSD1	0.43032	3.57
6	HTLV1_p30	PN01	0.1273	3.08
7	HTLV1_p30	SORBS3	0.62137	2.98
8	HTLV1_p30	INCENP	0.81933	2.94
9	HTLV1_p30	ATN1	0.83533	2.92
10	HTLV1_p30	CCAR1	0.92762	2.81
11	HTLV1_p30	CBX3	0.74369	2.74
12	HTLV1_p30	TRAM1	0.32243	2.71
13	HTLV1_p30	SPATA2L	0.73186	2.65
14	HTLV1_p30	WAS	0.3659	2.61
15	HTLV1_p30	HNRNPU	0.34975	2.60
16	HTLV1_p30	RPS4X	0.68068	2.56
17	HTLV1_p30	SENP6	0.38815	2.51
18	HTLV1_p30	ZNF493	0.38021	2.46
19	HTLV1_p30	NFRKB	1.0423	2.40
20	HTLV1_p30	ZFP36L1	0.95883	2.39
21	HTLV1_p30	ASXL1	0.65515	2.37
22	HTLV1_p30	EZH2	0.38814	2.35
23	HTLV1_p30	TPI1	0.50715	2.32
24	HTLV1_p30	YARS	0.097249	2.30
25	HTLV1_p30	ZNF383	0.32046	2.30
26	HTLV1_p30	GOLGA4	0.90077	2.29
27	HTLV1_p30	KIAA1430	0.24937	2.28
28	HTLV1_p30	NR2C1	0.4401	2.28
29	HTLV1_p30	ZCCHC11	0.65147	2.28
30	HTLV1_p30	UBE2E2	0.82252	2.27
31	HTLV1_p30	PMF1	1.1361	2.27
32	HTLV1_p30	ZNF436	0.3338	2.24
33	HTLV1_p30	ETV5	0.10416	2.20
34	HTLV1_p30	PDCD5	0.268	2.19
35	HTLV1_p30	RNMT	0.92061	2.18
36	HTLV1_p30	MAP9	0.79446	2.14
37	HTLV1_p30	ZNF26	0.34363	2.12
38	HTLV1_p30	BIVM	0.46036	2.12
39	HTLV1_p30	ARIH2	0.46582	2.12
40	HTLV1_p30	MBNL1	0.41397	2.11
41	HTLV1_p30	MRPL19	0.51314	2.11
42	HTLV1_p30	MALAT1	0.086276	2.10
43	HTLV1_p30	KLHL20	0.8459	2.09
44	HTLV1_p30	NACAP1	0.53566	2.08
45	HTLV1_p30	NACA	0.53901	2.08
46	HTLV1_p30	RSF1	0.62292	2.07
47	HTLV1_p30	UHRF1BP1L	0.39623	2.06
48	HTLV1_p30	CCNY	0.4883	2.05
49	HTLV1_p30	RPL37A	0.85748	2.02
50	HTLV1_p30	ELMO1	0.28027	2.02
51	HTLV1_p30	MEF2A	0.30804	2.01
52	HTLV1_p30	ZNF574	0.29588	2.01
53	HTLV1_p30	GTF2H2	0.49337	2.00
54	HTLV1_p30	RPS3A	1.3687	2.00
55	HTLV1_p30	LYST	0.24147	1.99
56	HTLV1_p30	FUBP1	0.49652	1.99
57	HTLV1_p30	TLE4	0.55649	1.98
58	HTLV1_p30	GOLGA3	0.27173	1.98
59	HTLV1_p30	ZNF354A	0.32997	1.98
60	HTLV1_p30	TSC22D4	1.2112	1.97
61	HTLV1_p30	RBBP6	0.38765	1.97
62	HTLV1_p30	LYST	0.24147	1.96
63	HTLV1_p30	UBE2D3	1.0001	1.96
64	HTLV1_p30	SERPINB9	0.86267	1.96
65	HTLV1_p30	PIN4	0.40702	1.95
66	HTLV1_p30	SND1	0.96346	1.95
67	HTLV1_p30	IFT57	0.46867	1.94
68	HTLV1_p30	TMF1	1.1667	1.94
69	HTLV1_p30	CDKN1A	0.233	1.93
70	HTLV1_p30	ARIH1	0.56995	1.93
71	HTLV1_p30	SNAP29	0.24622	1.92
72	HTLV1_p30	IARS	0.90389	1.91
73	HTLV1_p30	CEP164	1.521	1.90
74	HTLV1_p30	SNRPA1	0.60157	1.89
75	HTLV1_p30	WDFY3	0.5198	1.89

Section 6 - Indirect PPI evidences (genes upregulated greater than 1.5 fold in the 2014-01-23m22n4nthe presen

76	HTLV1_p30	ANAPC7	0.75025	1.88
77	HTLV1_p30	ZNF431	0.50756	1.87
78	HTLV1_p30	UFM1	0.1156	1.87
79	HTLV1_p30	EWSR1	0.64756	1.87
80	HTLV1_p30	WTAP	0.37377	1.86
81	HTLV1_p30	VPS53	0.74498	1.86
82	HTLV1_p30	NFATC2IP	0.45436	1.86
83	HTLV1_p30	SP100	0.83367	1.86
84	HTLV1_p30	AP1S2	0.31911	1.86
85	HTLV1_p30	WIPF1	0.16196	1.85
86	HTLV1_p30	JMJD1C	0.54348	1.85
87	HTLV1_p30	UBE3C	0.4942	1.84
88	HTLV1_p30	IFIH1	0.34679	1.84
89	HTLV1_p30	ZNF14	0.26437	1.84
90	HTLV1_p30	PPP1R13B	0.85509	1.84
91	HTLV1_p30	DNAJC7	0.83605	1.83
92	HTLV1_p30	ZNF83	0.29177	1.83
93	HTLV1_p30	FUS	0.43023	1.83
94	HTLV1_p30	DNAJA2	0.96549	1.83
95	HTLV1_p30	MAGEF1	0.071673	1.82
96	HTLV1_p30	ARID4B	0.96843	1.82
97	HTLV1_p30	CPSF6	0.29385	1.82
98	HTLV1_p30	FAM27A	0.033188	1.82
99	HTLV1_p30	SUMO2	0.65288	1.82
100	HTLV1_p30	MBNL2	0.13979	1.81
101	HTLV1_p30	UBE2B	0.91374	1.80
102	HTLV1_p30	SF1	0.35465	1.79
103	HTLV1_p30	UEVLD	0.28316	1.78
104	HTLV1_p30	GLS	0.70937	1.78
105	HTLV1_p30	ZXDC	0.66011	1.78
106	HTLV1_p30	DTX3L	0.42826	1.78
107	HTLV1_p30	TP53INP1	0.99489	1.78
108	HTLV1_p30	FBXL14	0.35254	1.76
109	HTLV1_p30	PRPF38B	0.49481	1.76
110	HTLV1_p30	ZFR	0.29373	1.76
111	HTLV1_p30	EPB41	0.3732	1.76
112	HTLV1_p30	DNAJB9	0.71286	1.76
113	HTLV1_p30	ATXN2L	0.62701	1.76
114	HTLV1_p30	PYHIN1	0.18039	1.75
115	HTLV1_p30	ZFR	0.29373	1.75
116	HTLV1_p30	THOC2	0.45307	1.75
117	HTLV1_p30	ZDBF2	0.55061	1.74
118	HTLV1_p30	VPS13A	0.91327	1.74
119	HTLV1_p30	PGM2	0.62745	1.73
120	HTLV1_p30	USP53	0.5502	1.73
121	HTLV1_p30	TAF15	0.19205	1.73
122	HTLV1_p30	SDCCAG8	0.92082	1.73
123	HTLV1_p30	PHF6	0.47654	1.73
124	HTLV1_p30	PGBD1	0.2637	1.73
125	HTLV1_p30	MSTO1	0.13252	1.72
126	HTLV1_p30	ARGLU1	0.39389	1.72
127	HTLV1_p30	BARD1	0.29377	1.72
128	HTLV1_p30	HINT3	0.49557	1.72
129	HTLV1_p30	EIF3J	0.8284	1.71
130	HTLV1_p30	ZCCHC7	0.46382	1.71
131	HTLV1_p30	TCEB2	1.2248	1.71
132	HTLV1_p30	MZF1	0.64714	1.71
133	HTLV1_p30	PPHLN1	0.67041	1.70
134	HTLV1_p30	FLYWCH1	0.16987	1.70
135	HTLV1_p30	PUM2	0.49531	1.70
136	HTLV1_p30	FAM83H	0.54636	1.69
137	HTLV1_p30	IREB2	0.56075	1.69
138	HTLV1_p30	POGZ	0.40675	1.69
139	HTLV1_p30	RAD52	0.53357	1.69
140	HTLV1_p30	DDX26B	1.0959	1.69
141	HTLV1_p30	BCL10	0.19354	1.68
142	HTLV1_p30	ZNF404	0.47643	1.68
143	HTLV1_p30	ABI1	0.29899	1.68
144	HTLV1_p30	LYRM7	0.60065	1.67
145	HTLV1_p30	CDV3	0.56233	1.67
146	HTLV1_p30	UBE2H	0.73939	1.67
147	HTLV1_p30	HOXC13	0.40585	1.67
148	HTLV1_p30	MDH2	0.75212	1.67
149	HTLV1_p30	CAND1	0.72005	1.66
150	HTLV1_p30	ZNF382	0.3048	1.66
151	HTLV1_p30	PPM1A	0.35275	1.66

Section 6 - Indirect PPI evidences (genes upregulated greater than 1.5 fold in the 2014-01-23m22n4n1e pres

152	HTLV1_p30	ALOX5	0.32454	1.66
153	HTLV1_p30	ZNF17	0.25339	1.66
154	HTLV1_p30	ZNF658	0.24611	1.66
155	HTLV1_p30	LRPPRC	0.90103	1.66
156	HTLV1_p30	SOX13	0.78384	1.66
157	HTLV1_p30	CLEC16A	0.23452	1.66
158	HTLV1_p30	MDM1	0.46462	1.65
159	HTLV1_p30	MALAT1	0.086276	1.65
160	HTLV1_p30	FAM46A	0.52367	1.65
161	HTLV1_p30	SDHC	0.35424	1.65
162	HTLV1_p30	MSTO1	0.13252	1.65
163	HTLV1_p30	GFI1	0.30684	1.65
164	HTLV1_p30	CDC73	0.54427	1.64
165	HTLV1_p30	MUM1	0.58259	1.64
166	HTLV1_p30	DLG1	0.83302	1.64
167	HTLV1_p30	PDE4B	0.23506	1.64
168	HTLV1_p30	NCK1	0.72469	1.64
169	HTLV1_p30	USP54	0.38153	1.64
170	HTLV1_p30	DTNBP1	0.28489	1.64
171	HTLV1_p30	DMTF1	0.86552	1.64
172	HTLV1_p30	HABP4	0.99479	1.64
173	HTLV1_p30	EID3	0.8463	1.64
174	HTLV1_p30	SH3BGRL3	0.15826	1.64
175	HTLV1_p30	MRPL43	0.54328	1.63
176	HTLV1_p30	FBXO46	0.96206	1.63
177	HTLV1_p30	FUBP1	0.49652	1.63
178	HTLV1_p30	DCUN1D1	0.35026	1.63
179	HTLV1_p30	MRPL30	0.088153	1.63
180	HTLV1_p30	SLAIN1	0.81906	1.63
181	HTLV1_p30	GATAD2A	0.75439	1.62
182	HTLV1_p30	RFX2	0.242	1.62
183	HTLV1_p30	BCOR	0.36427	1.62
184	HTLV1_p30	NPL	0.56488	1.62
185	HTLV1_p30	ZNF302	0.22197	1.62
186	HTLV1_p30	NOL6	0.39322	1.61
187	HTLV1_p30	FZR1	1.1668	1.61
188	HTLV1_p30	TRAK2	0.55482	1.61
189	HTLV1_p30	SMC5	0.3217	1.61
190	HTLV1_p30	NPHP4	0.79218	1.61
191	HTLV1_p30	RBM15	0.38304	1.61
192	HTLV1_p30	DDX6	0.68172	1.61
193	HTLV1_p30	IDI1	0.37342	1.61
194	HTLV1_p30	ZC3H12C	0.42931	1.61
195	HTLV1_p30	COPS8	0.38964	1.61
196	HTLV1_p30	SAMHD1	0.1586	1.60
197	HTLV1_p30	CRBN	0.51678	1.60
198	HTLV1_p30	SPTBN1	0.47635	1.60
199	HTLV1_p30	CCDC9	0.39895	1.60
200	HTLV1_p30	RPL35	1.0598	1.60
201	HTLV1_p30	KPNA3	1.024	1.60
202	HTLV1_p30	UBE2D3	1.0001	1.60
203	HTLV1_p30	PGM2L1	0.62358	1.60
204	HTLV1_p30	CUL5	0.8311	1.60
205	HTLV1_p30	FNTB	0.047482	1.60
206	HTLV1_p30	IRF7	0.56445	1.60
207	HTLV1_p30	AIM1	0.63292	1.60
208	HTLV1_p30	SEPSECS	0.56404	1.60
209	HTLV1_p30	HSPD1	0.22074	1.60
210	HTLV1_p30	AMOTL2	0.34989	1.59
211	HTLV1_p30	PBX2	0.51924	1.59
212	HTLV1_p30	BCORL1	0.61791	1.59
213	HTLV1_p30	PRICKLE1	0.8875	1.59
214	HTLV1_p30	TIA1	0.28798	1.59
215	HTLV1_p30	BAD	0.070743	1.59
216	HTLV1_p30	SSBP3	0.59458	1.59
217	HTLV1_p30	MED28	1.0798	1.59
218	HTLV1_p30	PELO	0.31856	1.59
219	HTLV1_p30	GOPC	0.77018	1.59
220	HTLV1_p30	POP4	0.94567	1.58
221	HTLV1_p30	ATXN7	1.0319	1.58
222	HTLV1_p30	LRCH4	0.42038	1.58
223	HTLV1_p30	XPO4	0.77357	1.58
224	HTLV1_p30	FARSB	0.86786	1.58
225	HTLV1_p30	UBR1	0.33505	1.58
226	HTLV1_p30	XPO1	1.0715	1.57
227	HTLV1_p30	ZMYM2	0.70238	1.57

Section 6 - Indirect PPI evidences (genes upregulated greater than 1.5 fold in the 2014-2013m21n4e pres

228	HTLV1_p30	PPP3CA	0.44765	1.57
229	HTLV1_p30	KLC1	0.60572	1.57
230	HTLV1_p30	LCP2	0.7069	1.57
231	HTLV1_p30	UBE2D1	0.81042	1.57
232	HTLV1_p30	IREB2	0.56075	1.57
233	HTLV1_p30	GSPT2	0.59363	1.57
234	HTLV1_p30	PIAS2	0.74882	1.57
235	HTLV1_p30	ZNF320	0.32699	1.57
236	HTLV1_p30	CDCA7	0.63845	1.56
237	HTLV1_p30	TEAD2	0.75596	1.56
238	HTLV1_p30	ALAS2	0.29461	1.56
239	HTLV1_p30	KHDRBS3	0.8226	1.56
240	HTLV1_p30	CABLES1	0.8069	1.56
241	HTLV1_p30	CDKN2AIPNL	0.92792	1.56
242	HTLV1_p30	CDC23	0.67236	1.55
243	HTLV1_p30	ZFP30	0.54106	1.55
244	HTLV1_p30	ARRDC3	0.25112	1.55
245	HTLV1_p30	ZNF655	0.90465	1.55
246	HTLV1_p30	U2AF1	0.52298	1.55
247	HTLV1_p30	BOLA2	0.38958	1.55
248	HTLV1_p30	NMRAL1	0.099501	1.55
249	HTLV1_p30	MICALL1	0.30669	1.55
250	HTLV1_p30	CCDC74A	0.46157	1.55
251	HTLV1_p30	TRAPPC3	0.38421	1.55
252	HTLV1_p30	CCDC97	0.24937	1.54
253	HTLV1_p30	FGFR1OP	0.85563	1.54
254	HTLV1_p30	SDCCAG8	0.92082	1.54
255	HTLV1_p30	SCML1	0.20918	1.54
256	HTLV1_p30	CCDC14	0.27024	1.54
257	HTLV1_p30	SMURF2	0.52804	1.54
258	HTLV1_p30	TDRD3	0.34443	1.54
259	HTLV1_p30	PPP2R4	0.49741	1.54
260	HTLV1_p30	OSGEPL1	0.26979	1.54
261	HTLV1_p30	LIMD1	0.34962	1.54
262	HTLV1_p30	CHIC2	0.27919	1.54
263	HTLV1_p30	ZKSCAN5	0.52865	1.54
264	HTLV1_p30	ZNF160	0.38886	1.54
265	HTLV1_p30	ILF3	1.2124	1.53
266	HTLV1_p30	BRD4	0.66225	1.53
267	HTLV1_p30	FANCA	0.70005	1.53
268	HTLV1_p30	NDE1	0.2821	1.53
269	HTLV1_p30	BRWD1	0.83245	1.53
270	HTLV1_p30	ZMYM2	0.70238	1.53
271	HTLV1_p30	TMCO6	1.168	1.53
272	HTLV1_p30	CINP	0.79069	1.53
273	HTLV1_p30	CAMTA2	1.228	1.53
274	HTLV1_p30	SIRT4	0.53395	1.53
275	HTLV1_p30	MED16	0.48556	1.53
276	HTLV1_p30	MUM1	0.58259	1.53
277	HTLV1_p30	CCNY	0.4883	1.53
278	HTLV1_p30	ZNF101	0.18328	1.52
279	HTLV1_p30	ENO3	0.37846	1.52
280	HTLV1_p30	POLI	0.25785	1.52
281	HTLV1_p30	ZNF260	0.25449	1.52
282	HTLV1_p30	ESF1	1.1533	1.52
283	HTLV1_p30	CDT1	0.71816	1.52
284	HTLV1_p30	MDFIC	1.3609	1.52
285	HTLV1_p30	ETS2	0.6608	1.51
286	HTLV1_p30	PTCD2	0.25451	1.51
287	HTLV1_p30	MDM2	0.31125	1.51
288	HTLV1_p30	UROD	0.59558	1.51
289	HTLV1_p30	FGFR1OP2	0.22364	1.51
290	HTLV1_p30	YRDC	0.61031	1.51
291	HTLV1_p30	SASS6	0.63845	1.51
292	HTLV1_p30	PDE4DIP	0.83199	1.51
293	HTLV1_p30	SETD8	0.58974	1.51
294	HTLV1_p30	NOL7	0.8529	1.50
295	HTLV1_p30	KIAA1107	0.17012	1.50
296	HTLV1_p30	PCBP2	1.0133	1.50
297	HTLV1_p30	ZNF569	0.25059	1.50
298				

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1 [Section 7] biological processes that the HTLV viruses may interfere with
2
3
4 [Cluster 1]GO:0060632+P biological_process [name] regulation of microtubule-based
movement [def] "Any process that modulates the rate, frequency, or extent of
microtubule-based movement, the movement of organelles, other microtubules and other
particles along microtubules, mediated by motor proteins." [GOC
5 Pathogen[ Q2Q067] interacts with 1 human partners:{P78318}
6 Pathogen[ POC214] interacts with 1 human partners:{P78318}
7 Pathogen[ P03346] interacts with 1 human partners:{P78318}
8 Pathogen[ Q85601] interacts with 1 human partners:{P78318}
9 Pathogen[ P14079] interacts with 2 human partners:{P78318;P10636}
10 Pathogen[ P03383] interacts with 1 human partners:{P78318}
11 Pathogen[ P03410] interacts with 2 human partners:{P78318;P10636}
12 Pathogen[ P14075] interacts with 1 human partners:{P78318}
13 Pathogen[ POC206] interacts with 2 human partners:{P78318;P10636}
14 Pathogen[ P03363] interacts with 1 human partners:{P78318}
15 [Cluster 2]GO:0036250+P
16 Pathogen[ Q2Q067] interacts with 1 human partners:{075381}
17 Pathogen[ POC214] interacts with 1 human partners:{075381}
18 Pathogen[ P03346] interacts with 1 human partners:{075381}
19 Pathogen[ Q85601] interacts with 1 human partners:{075381}
20 Pathogen[ P14079] interacts with 1 human partners:{075381}
21 Pathogen[ P03383] interacts with 1 human partners:{075381}
22 Pathogen[ P03410] interacts with 1 human partners:{075381}
23 Pathogen[ P14075] interacts with 1 human partners:{075381}
24 Pathogen[ POC206] interacts with 1 human partners:{075381}
25 Pathogen[ P03363] interacts with 1 human partners:{075381}
26 [Cluster 3]GO:0030073+P biological_process [name] insulin secretion [def] "The
regulated release of proinsulin from secretory granules (B granules) in the B cells of
the pancreas_ accompanied by cleavage of proinsulin to form mature insulin." [GOC
27 Pathogen[ Q2Q067] interacts with 5 human
partners:{Q13562;P35680;Q8NHW3;Q15796;P20823}
28 Pathogen[ POC214] interacts with 2 human partners:{Q8NHW3;Q15796}
29 Pathogen[ P03346] interacts with 5 human
partners:{Q15796;P20823;P35680;Q13562;Q8NHW3}
30 Pathogen[ Q85601] interacts with 5 human
partners:{Q13562;Q8NHW3;P35680;P20823;Q15796}
31 Pathogen[ P14079] interacts with 5 human
partners:{P04083;O14810;P35680;Q8NHW3;Q8WVH0}
32 Pathogen[ P03383] interacts with 1 human partners:{Q15796}
33 Pathogen[ P03410] interacts with 5 human
partners:{O14810;Q8WVH0;Q8NHW3;P35680;Q15796}
34 Pathogen[ P14075] interacts with 1 human partners:{Q15796}
35 Pathogen[ POC206] interacts with 5 human
partners:{Q15796;P35680;P20823;Q8NHW3;Q13562}
36 Pathogen[ P03363] interacts with 2 human partners:{Q8NHW3;Q15796}
37 [Cluster 4]GO:0034141+P biological_process [name] positive regulation of toll-like
receptor 3 signaling pathway [def] "Any process that activates or increases the
frequency, rate, or extent of toll-like receptor 3 signaling pathway." [GOC
38 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96FA3}
39 Pathogen[ POC214] interacts with 1 human partners:{Q96FA3}
40 Pathogen[ P03346] interacts with 1 human partners:{Q96FA3}
41 Pathogen[ Q85601] interacts with 1 human partners:{Q96FA3}
42 Pathogen[ P14079] interacts with 1 human partners:{Q96FA3}
43 Pathogen[ P03383] interacts with 1 human partners:{Q96FA3}
44 Pathogen[ P03410] interacts with 1 human partners:{Q96FA3}
45 Pathogen[ P14075] interacts with 1 human partners:{Q96FA3}
46 Pathogen[ POC206] interacts with 1 human partners:{Q96FA3}
47 Pathogen[ P03363] interacts with 1 human partners:{Q96FA3}
48 [Cluster 5]GO:0034329+P biological_process [name] cell junction assembly [def] "A
cellular process that results in the aggregation, arrangement and bonding together of a
set of components to form a cell junction." [GOC
49 Pathogen[ Q2Q067] interacts with 9 human
partners:{Q14315;Q8NI35;Q9NPB6;Q9BYG5;Q9NVD7;P13647;Q9BYG4;P02533;O60716}
50 Pathogen[ POC214] interacts with 11 human
partners:{P60709;Q8NI35;P02533;O60716;Q14315;Q9NPB6;Q9BYG5;P13647;Q9NVD7;P63261;Q9BY
G4}
51 Pathogen[ P03346] interacts with 16 human
partners:{Q96AC1;Q14315;O60716;Q15149;P60709;Q9NPB6;P55196;Q8TEW0;Q8NI35;Q8N3R9;P025
33;Q9BYG5;P48059;Q9BYG4;Q9NVD7;P13647}
52 Pathogen[ Q85601] interacts with 12 human
partners:{Q9NVD7;P02533;Q9BYG5;P60709;O60716;Q8NI35;P63261;Q9NPB6;Q14315;P48059;P136
47;Q9BYG4}
53 Pathogen[ P14079] interacts with 22 human
partners:{P63261;Q8N7P3;Q9BYG5;P56750;P02533;P50552;Q8TEW0;Q15149;Q96GC9;Q14315;Q8NI
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- 54 35;Q9BYG4;Q96AC1;P60709;Q96B33;Q8N3R9;P49023;Q9NPB6;P48059;Q9NVD7;O60716;P13647}  
Pathogen[ P03383] interacts with 6 human  
partners:{O60716;P02533;Q9BYG5;Q9NPB6;P13647;Q9BYG4}
- 55 Pathogen[ P03410] interacts with 20 human  
partners:{P02533;Q96B33;Q96GC9;Q8N7P3;O60716;Q8NI35;P50552;Q14315;P48059;Q8TEW0;Q9NP  
B6;P63261;Q9NVD7;P56750;Q15149;P13647;Q9BYG4;Q8N3R9;P60709;Q9BYG5}
- 56 Pathogen[ P14075] interacts with 6 human  
partners:{Q9BYG4;P13647;Q9BYG5;Q9NPB6;O60716;P02533}
- 57 Pathogen[ P0C206] interacts with 15 human  
partners:{O60716;P60709;Q9NVD7;Q14315;Q9BYG5;Q8N3R9;Q8TEW0;P13647;P55196;P63261;P480  
59;Q8NI35;Q9NPB6;P02533;Q9BYG4}
- 58 Pathogen[ P03363] interacts with 14 human  
partners:{P02533;P60709;Q9NPB6;Q9BYG4;P13647;Q15149;Q8N3R9;Q9BYG5;Q8NI35;P63261;Q96A  
C1;Q9NVD7;O60716;Q14315}
- 59 [Cluster 6]GO:0006614+P biological\_process [name] SRP-dependent cotranslational protein  
targeting to membrane [def] "The targeting of proteins to a membrane that occurs  
during translation and is dependent upon two key components, the signal-recognition  
particle (SRP) and the SRP receptor. SRP is a cytosolic particle that transiently binds  
to the endoplasmic reticulum (ER) signal sequence in a nascent protein, to the large  
ribosomal unit, and to the SRP receptor in the ER membrane." [ISBN
- 60 Pathogen[ Q2Q067] interacts with 85 human  
partners:{P61313;P62701;P49458;P47914;P46779;Q02543;P26373;P62750;P62273;P15880;P404  
29;P09132;P46782;P35268;P22090;P46778;P62888;P32969;P62277;P62241;P62244;P05387;P628  
61;P42766;P05386;Q9UNX3;P30050;Q15629;P18077;P62891;P61927;P39023;P62081;P61247;Q9UH  
B9;P61254;P62249;P62280;P83731;P62263;P60866;P62906;Q02878;P46777;P62899;P08708;P088  
65;Q07020;P62913;P62269;P62424;P62917;P62829;P46783;P36578;P62857;P49207;P233  
96;P63173;P18621;P39019;P61353;P62266;P42677;Q9Y3U8;P63220;P62841;P83881;P62987;P509  
14;P46776;P62854;P62753;P05388;P18124;P62851;P25398;P62910;Q92901;P46781;P27635;P615  
13;P62945;P62979}
- 61 Pathogen[ P0C214] interacts with 83 human  
partners:{P62861;P84098;P61247;P15880;P62081;P42766;P62913;P22090;Q92901;P62249;P628  
99;P62854;P39019;P62263;P62273;P23396;P18077;P05388;P62847;P62829;P26373;P27635;P467  
78;P61513;P83881;P62701;P49207;P63220;P08865;P32969;Q02543;P62266;P62277;P50914;P467  
79;P40429;P47914;P63173;P46783;P62280;Q9UNX3;Q9Y3U8;P30050;P62753;P62910;P62891;P622  
69;P46781;P61254;P62841;P62244;P62987;Q07020;P42677;P62945;P46776;Q15629;P62241;P467  
77;P83731;P35268;Q9UHB9;P62424;P60866;P62857;P49458;P61313;P08708;P05387;P25398;P619  
27;P62750;P62979;P05386;P09132;P62851;P46782;P18124;P61353;P36578;P18621;P62906;Q028  
78}
- 62 Pathogen[ P03346] interacts with 86 human  
partners:{P05387;P46779;P63173;P62917;P62249;P62913;P62861;P62277;Q02878;P62280;P390  
23;P62987;P61927;Q9UNX3;P62857;P46778;P49207;Q15629;P62266;P61254;P62424;P62273;P837  
31;P60866;P49458;P62899;P35268;P09132;P62891;P08708;P46782;P61353;P62854;Q9Y3U8;P479  
14;P08865;P61313;P25398;P61513;P05388;P62269;Q02543;P42766;P62081;P61247;P18621;P467  
81;P84098;P15880;P50914;P62829;P62979;P39019;P23396;P42677;P62750;P62701;P30050;P629  
10;P36578;P62847;Q9UHB9;P62851;P22090;P46777;Q07020;P62263;P62841;P63881;P05386;P180  
77;P46776;P62241;P62753;P62945;Q92901;P32969;P26373;P18124;P40429;P27635;P46783;P629  
06;P62244;P62888;P63220}
- 63 Pathogen[ Q85601] interacts with 85 human  
partners:{P46783;P32969;P61513;P26373;P62857;P62244;P62913;P62854;P62081;P61353;P628  
91;P46776;P18077;P61313;P05388;Q15629;P63173;P23396;P62273;P46778;P62829;P30050;P627  
53;P27635;P15880;P83881;Q07020;P39019;Q9Y3U8;P62701;P62241;P62424;P83731;P62899;P629  
45;P62263;P62861;Q02878;P39023;P61254;P49207;P62910;P62249;P62280;P47914;P84098;P087  
08;P42766;P62269;P18621;P05387;Q9UNX3;P62277;P35268;P62979;P62847;P42677;P63220;P467  
82;Q9UHB9;P46779;P62750;P62851;P62841;P62987;P22090;P61927;P36578;P05386;P08865;P612  
47;P09132;P46777;P62917;Q92901;P18124;P46781;P25398;P60866;Q02543;P62906;P50914;P622  
66;P40429;P62888}
- 64 Pathogen[ P14079] interacts with 91 human  
partners:{Q15629;Q9Y3U8;P27635;P84098;P46779;P26373;P09132;P23396;P60468;P40429;P186  
21;P83881;Q9UNX3;P46781;P83731;P61513;P62847;P39656;P62753;P39023;P62273;P25398;P433  
07;P18077;P46783;P61254;P50914;P04844;P62979;P62841;P18124;P42766;P62266;P46782;P629  
87;P62241;P32969;P22090;P62829;P60866;P62854;Q07020;P39019;P63220;P49207;P62244;P622  
63;Q02543;P62424;Q92901;P62277;P62750;P62910;P63173;P49458;P46776;P08708;P36578;P600  
59;P62906;P47914;P62280;P62899;P61353;P62081;P62945;P46777;P42677;P30050;P15880;P628  
91;P36578;P08865;P61927;P62917;P46778;P62249;P05386;P35268;P62913;P05387;P61247;P622  
69;P62701;Q9UHB9;P51571;P61313;P62851;P05388;P62857;P62861}
- 65 Pathogen[ P03383] interacts with 86 human  
partners:{P42766;P36578;P05388;P62266;P39019;P26373;P62913;P62945;P62854;P40429;P629  
87;P62891;P25398;P62280;Q07020;P49458;P62750;P05387;P62249;P62888;P62899;P61927;P467  
77;P46779;P49207;P83731;P62424;P18124;P46778;Q92901;P62753;P42677;P62753;P83881;P479  
14;P62917;P62273;Q9UNX3;P09132;P30050;P84098;P32969;P62277;P18077;P63173;Q15629;P620  
81;P61313;P08865;P62851;P46782;P62269;P63220;Q02543;P62244;Q02878;P62910;P27635;P628  
57;P62906;P46783;Q9Y3U8;P60866;P61254;P62979;P62241;P46781;P39023;Q9UHB9;P62841;P220  
90;P62701;P62829;P62263;P62847;P35268;P05386;P50914;P62861;P18621;P46776;P15880;P233  
96;P61513;P08708;P61353}
- 66 Pathogen[ P03410] interacts with 91 human  
partners:{P62861;P05386;Q02543;P61247;P62241;P62829;P49207;P26373;P61513;P62899;Q9UH



- B9;P62244;P62913;P60468;P60059;Q02878;Q92901;P15880;P46777;P46776;P62841;P30050;P05388;P46781;P18124;P62269;Q07020;P63220;P62910;P62847;P62906;P23396;P18621;P62266;P62249;P63173;P50914;P62280;P22090;P61313;P62979;P62701;P62750;P08865;Q9UNX3;P62277;P36578;P18077;P25398;P43307;P61927;P84098;P62854;P62273;P09132;P62081;P46783;Q15629;Q9Y3U8;P08708;P46782;P32969;P04844;P46779;P27635;P62987;P62857;P62263;P62424;P62888;P61254;P46778;P62945;P05387;P42766;P39019;P47914;P40429;P49458;P39023;P39656;P62917;P62851;P83731;P35268;P61353;P62891;P62753;P83881;P60866;P42677}
- 67 Pathogen[ P14075] interacts with 86 human partners: {P42766;P49207;P09132;P62857;P46781;P63220;P32969;P42677;P62913;P22090;Q02878;P62277;P62851;P08865;P62244;P08708;P61254;P46778;P05388;P83881;P46777;Q9Y3U8;P62249;P62081;Q15629;P62750;P18621;Q02543;P18124;Q9UNX3;P25398;P63173;P30050;P62979;P83731;P49458;P84098;P61247;P62753;P46782;P62891;P62861;P18077;P46779;P62917;P39023;P50914;P62269;P62847;P62910;P62273;P40429;P23396;P62241;P15880;P62987;P62841;P36578;P62266;P61513;P61313;P27635;P62888;Q92901;P35268;Q9UHB9;P62945;P46776;P46783;P62701;P62899;P47914;P62906;P05386;P61353;P39019;P62424;P62829;P62280;Q07020;P62263;P62854;P60866;P26373;P05387;P61927}
- 68 Pathogen[ P0C206] interacts with 87 human partners: {P09132;P40429;P61313;P27635;P18124;P62854;P49207;P62081;P30050;P39656;P62241;P62244;P50914;P08865;P62750;P18621;P46781;P62266;Q02543;Q07020;P83881;P46778;P62263;P62273;Q02878;P62280;P62857;P62851;P62910;P46782;P61247;P18077;P62913;P61927;P61353;P62888;P36578;P62861;P35268;P23396;P39023;P32969;P62701;P05386;P22090;P84098;P62945;P26373;P46777;P05388;P62979;P62899;P83731;P39019;Q92901;P05387;P46783;P42766;P60866;P62841;Q9UNX3;P61513;P49458;Q15629;P62277;Q9UHB9;P46776;P62906;P63173;P62987;P62891;P62269;P62753;P46779;P63220;P15880;P25398;P08708;P47914;P62847;P61254;P42677;P62829;P62249;P62424;Q9Y3U8;P62917}
- 69 Pathogen[ P03363] interacts with 84 human partners: {P62913;P09132;P18621;P05386;P62750;P23396;P42677;P63173;P08865;P62847;P18077;P05387;P84098;P42766;P62249;P05388;P36578;P62753;P62081;P62910;P61513;P46776;P61254;P62273;Q9UHB9;P32969;Q92901;P46778;P61927;P62891;P61353;P08708;P15880;P26373;P83881;P22090;P62861;P62841;Q9UNX3;P30050;P62829;P46782;P35268;P46781;P50914;P63220;P61313;P39019;P46779;Q02543;P46777;P62987;P25398;P83731;P62851;P62280;Q9Y3U8;P62888;P49458;P62244;P62277;P62906;P62266;P62945;P49207;P62241;P62424;P60866;P61247;P62899;P62857;Q02878;Q07020;P39023;P62854;P62917;P18124;P40429;P27635;P62263;P47914;P62701;P62269;P46783}
- 70 [Cluster 7]GO:0016233+P biological\_process [name] telomere capping [def] "A process in which telomeres are protected from degradation and fusion, thereby ensuring chromosome stability by protecting the ends from both degradation and from being recognized as damaged DNA. May be mediated by specific single- or double-stranded telomeric DNA binding proteins." [GOC]
- 71 Pathogen[ Q2Q067] interacts with 2 human partners: {Q15554;Q96AP0}
- 72 Pathogen[ P0C214] interacts with 1 human partners: {Q15554}
- 73 Pathogen[ P03346] interacts with 3 human partners: {Q96AP0;Q15554;Q9NUX5}
- 74 Pathogen[ Q85601] interacts with 1 human partners: {Q15554}
- 75 Pathogen[ P14079] interacts with 3 human partners: {Q9NUX5;Q15554;Q96AP0}
- 76 Pathogen[ P03383] interacts with 1 human partners: {Q15554}
- 77 Pathogen[ P03410] interacts with 3 human partners: {Q9NUX5;Q15554;Q96AP0}
- 78 Pathogen[ P14075] interacts with 2 human partners: {Q15554;Q96AP0}
- 79 Pathogen[ P0C206] interacts with 3 human partners: {Q96AP0;Q15554;Q9NUX5}
- 80 Pathogen[ P03363] interacts with 3 human partners: {Q15554;Q96AP0;Q9NUX5}
- 81 [Cluster 8]GO:0061098+P biological\_process [name] positive regulation of protein tyrosine kinase activity [def] "Any process that increases the rate, frequency, or extent of protein tyrosine kinase activity." [GOC]
- 82 Pathogen[ Q2Q067] interacts with 3 human partners: {Q8IZP0;O14641;P25063}
- 83 Pathogen[ P0C214] interacts with 3 human partners: {Q8IZP0;O14641;P25063}
- 84 Pathogen[ P03346] interacts with 4 human partners: {Q8IZP0;O14641;P25063;Q9C0H9}
- 85 Pathogen[ Q85601] interacts with 2 human partners: {O14641;Q8IZP0}
- 86 Pathogen[ P14079] interacts with 4 human partners: {O14641;Q8IZP0;Q9C0H9;P25063}
- 87 Pathogen[ P03383] interacts with 3 human partners: {P25063;O14641;Q9C0H9}
- 88 Pathogen[ P03410] interacts with 4 human partners: {P25063;Q8IZP0;Q9C0H9;O14641}
- 89 Pathogen[ P14075] interacts with 3 human partners: {O14641;Q9C0H9;P25063}
- 90 Pathogen[ P0C206] interacts with 3 human partners: {P25063;Q8IZP0;Q9C0H9}
- 91 Pathogen[ P03363] interacts with 3 human partners: {Q8IZP0;O14641;Q9C0H9}
- 92 [Cluster 9]GO:0006366+P biological\_process [name] transcription from RNA polymerase II promoter [def] "The synthesis of RNA from a DNA template by RNA polymerase II, originating at an RNA polymerase II promoter. Includes transcription of messenger RNA (mRNA) and certain small nuclear RNAs (snRNAs)." [GOC]
- 93 Pathogen[ Q2Q067] interacts with 245 human partners: {Q9UNN4;P83369;Q15573;P33240;P52434;Q92750;P01100;Q16236;Q86U42;Q99583;O75909;P10827;P20226;Q16594;P23511;Q13487;Q5VTD9;Q15928;Q9H7N4;Q9UHB7;Q13887;O00267;P61326;Q9NPJ6;P29374;Q8IYF1;P40763;P78424;P14921;Q13889;Q13148;O14503;P46937;Q9NR55;P67809;Q12986;Q9NR48;Q01130;Q95997;Q9UHF7;P62318;Q9Y2Y9;Q9H5H4;Q96AE4;Q8N3X6;P49716;Q8N684;Q96004;Q92985;Q6PK2;Q9UL49;O75478;P19388;Q5SXM2;Q02930;P52435;Q9H944;Q14119;Q16633;Q8WTR7;Q9UIS9;O00712;Q14814;P50549;P32780;O75486;O15266;P18615;P30876;P19387;P15976;Q15542;Q03933;Q92754;P61218;Q92759;O75448;Q16534;P52657;P51610;Q14934;P09086;O75971;O94993;O14776;P17676;Q8N5Y2;Q07955;Q00978;Q92905;Q9BZ17;Q16629;O60563;P11831;O43148;Q14134;Q12962;P28069;Q9UKW6;P78545;Q10570;P54845;Q12996;Q9Y4A8;Q08050;Q13287;P290

84;Q9ULW3;P38159;P52747;P55347;P62487;P62304;P55199;P84103;Q8IYB3;Q05048;Q15699;O94913;Q14938;O75529;P56693;Q86V81;Q9ULX9;P51948;Q9Y2T7;Q14585;Q14653;Q9UKD1;Q15370;O14641;P10914;Q15643;Q05519;P26368;Q03701;Q15543;O95644;O75444;P49848;O00625;P50750;Q9Y2N7;P11161;Q9Y5B0;Q6P4R8;Q15544;Q9Y603;P82094;O00268;P09874;P62380;P50613;P14678;Q9Y5S9;Q8WVJ9;Q92830;O15164;P35869;Q01081;Q16514;Q13951;Q9P2I0;Q03468;P61244;P13984;Q13243;Q15369;P62875;P23760;O14770;Q96JN0;P24928;O43812;P19838;P20823;P23193;P17861;P61201;Q09161;Q12968;Q15572;P15336;Q9Y2X0;Q8IXH7;Q9H3P2;P20290;Q15545;Q03111;Q9UKN5;P22415;Q13761;P52298;P52655;P35269;Q8TE85;Q15714;P29083;O95125;O60583;O94916;Q9UKF6;O60682;Q14493;Q86U70;Q01860;P18848;P63272;P21675;P53803;Q14241;P78347;O60508;P62306;P35232;Q9Y5B9;Q86Y01;Q9UBL3;P15407;O75376;Q9UK39;O95905;Q99814;Q16649;P62308;P52737;Q9UQR1;P35711;Q9Y651;Q02078;Q06546;Q13888;P49715;Q969L4;Q6ZN01;P18146;Q15650;Q92966;P51946;Q8WX92;Q00403;Q08945;P51003;P08651}

94 Pathogen[ POC214] interacts with 235 human partners: {Q12996;Q9BZI7;O00268;Q9UKW6;O75444;Q9UHB7;P51946;Q8WX92;Q9UKN5;Q13761;P26368;P20290;P83369;Q09161;O75486;Q13887;P61244;Q02930;P35869;P51610;O94913;Q06546;P55347;Q9UHF7;Q9Y4A8;P38159;Q9UKF6;O75909;P30876;Q96JN0;P19838;P14921;Q15573;P15336;P52657;P21675;P53803;P84103;Q86V81;P62380;Q9Y5S9;P51003;P15407;P52655;O60508;P35269;P50750;O00267;P50613;Q9Y2X0;P29084;O75478;P14678;Q14119;P62306;P01100;Q969L4;Q9NR55;P52435;O15266;P17275;Q92750;P35711;P56693;P67809;P46937;P61201;Q05048;O95125;Q12986;P11831;Q9Y2Y9;Q00403;Q9UNN4;Q12962;P10914;P61218;Q15928;Q5SXM2;Q15370;Q10570;Q15545;Q14938;Q00978;Q6P1K2;P62308;O43148;Q16594;Q8N684;Q9UKD1;P17676;Q15542;Q03933;Q5VTD9;Q14776;P49716;Q07955;P18615;Q9H944;Q9UK39;Q02078;O14503;P82094;P52298;Q9UIS9;Q8TE85;Q12968;Q14814;Q9Y2N7;P18848;Q92966;P62487;Q16633;Q14493;Q8IYB3;Q92754;O43809;O00712;Q9Y2T7;Q92985;Q13487;P51948;Q92905;Q9H5H4;P17861;P61326;Q86U70;O14641;O43812;P78347;Q15369;Q15572;P55199;O60583;Q13243;P63272;Q15544;Q9P2I0;Q8N3X6;P49848;Q15643;Q6P4R8;Q05519;Q9Y603;Q15714;O75376;Q9ULX9;Q6ZN01;P62318;Q9Y5B9;Q01081;P33240;Q16514;Q14934;Q15650;P62875;P28069;P13984;P20226;Q14653;O75529;P32780;Q15287;P24928;P52747;O60563;P05412;P62304;Q8WVJ9;O75448;P18146;Q16534;Q8WTR7;O15164;Q99814;P09086;Q92830;Q9Y5B0;P11161;Q13888;Q96AE4;P23511;Q9ULW3;Q14585;Q03111;Q9NR48;P52434;Q08945;Q8IXH7;O95905;P40763;O96004;O95997;O75971;O94916;O00625;P78545;Q9H3P2;P50549;O14770;P08651;P22415;Q8IYF1;P19387;Q13148;P23193;P19388;O95644;Q15543;Q9Y651;P16220;P35232;Q86Y01;P54845;Q9UQR1;Q86U42;Q9H7N4;Q13287;Q15699;Q99583;Q01860;Q03468;Q9NPJ6;Q92759;Q16629;P52737;P29083;P09874;O94993;P23760;Q13951;Q01130;Q16236;Q14241;Q03701}

95 Pathogen[ P03346] interacts with 278 human partners: {Q9Y5S9;Q9BZI7;P49716;P05412;P78424;Q15542;Q86U42;P15863;Q9UHF7;P46937;Q13487;P35453;Q15370;P09086;Q02078;Q09161;P10827;Q86U70;P23511;P52434;Q9NPJ6;Q08170;Q15928;Q8IYB3;P29374;Q14814;Q8IXH7;O15522;P16220;Q9UQR1;P17676;O14901;Q9ULW3;P15336;P52747;Q9BYU1;P62304;P11831;Q9UKF6;Q8N3X6;P54845;Q13148;P50549;O60563;Q03933;Q99626;Q15911;P17275;P78347;P82094;P17861;O75971;P51610;Q15573;O75486;Q8IYA7;Q13888;Q9NR55;P56693;P23760;Q9H3P2;O00712;Q92858;P53803;Q12986;P52737;Q8N684;P61218;O00268;Q08050;Q13242;Q8WTR7;Q96AE4;Q13247;Q9UBL3;P20823;O60682;Q13287;Q00978;P29084;P63272;Q8TE85;P52298;Q16629;O95644;P49715;Q9ULX9;Q92754;Q07955;Q01860;Q92750;O95997;Q08945;O75444;Q13889;O14503;P20226;Q05048;Q9H5H4;Q92766;Q14119;Q03111;Q16236;Q14934;Q9Y5B0;O96004;P62487;O75448;Q03701;Q9UHB7;P19388;Q14493;Q8NBF1;Q15699;Q9UL49;O60583;P62318;Q92830;P18848;P14921;O43148;Q15643;Q12968;Q86V81;P17542;O60508;Q9UIS9;P13984;P51003;P15976;O95125;O15266;O14641;O75478;Q06546;P67809;Q03468;P83369;P10914;Q8N5Y2;O75529;P62380;Q13951;P52435;P49848;Q9Y2N7;Q9UNN4;P08651;P62306;Q13761;P51946;Q16534;Q8WVJ9;Q14585;P52657;P50750;Q02548;O95905;O94913;Q9Y5B9;P26368;Q01081;P36954;Q16649;Q16514;Q99814;P61326;Q9Y2Y4;P35659;Q13887;O75376;P98177;Q12962;P78367;Q14653;O00267;Q5VTD9;P09874;O94993;P15407;O43809;Q92905;O75909;Q16633;Q8WX92;P84103;Q92759;Q9H944;Q9UK39;P61244;P55199;Q92481;Q6ZN01;P61201;Q15287;P21675;Q9Y2T7;P11161;Q05519;P30876;Q15369;P35269;Q01130;P55347;P14678;P28069;Q8IYF1;P35232;P61968;Q9P2I0;Q6P4R8;P19838;O75031;O00625;O43812;O94916;Q9Y651;P24928;P23193;P29083;P20290;P18146;Q9Y2X0;Q00403;Q9H7N4;O75398;Q13243;Q99583;Q9Y603;Q92985;Q9NR48;P38159;Q9UKW6;P35869;P78545;Q969L4;Q02930;Q86Y01;Q15545;Q5SXM2;P35711;Q92966;P40763;Q96JN0;Q8NEA6;P52655;Q6P1K2;Q9UKN5;Q13285;P01100;P62308;P49335;P51948;Q10570;Q12996;Q15544;P32780;O15164;Q9Y2Y9;Q15650;P18615;Q14938;P33240;Q15714;O14770;P62875;P19387;Q9UKD1;Q14134;O14776;Q14241;P22415;Q9Y4A8;Q16594;Q15543;Q99581;Q15572}

96 Pathogen[ Q85601] interacts with 250 human partners: {Q9UQR1;Q03701;Q9UNN4;P51946;P18146;P52657;Q8N3X6;Q9BZI7;Q9ULW3;Q9Y2X0;Q8TE85;P78424;Q15542;O75971;Q9UHF7;Q13487;P36954;Q15643;Q8N5Y2;Q15370;P11831;Q9Y2T7;Q02078;P17676;P09874;O43148;Q16236;Q8IYB3;Q92754;O60563;P61968;P09086;P15976;O75909;Q13243;P50750;P14921;Q9Y2N7;P08651;O75398;Q86U70;Q06546;Q05048;P62304;Q9Y603;Q01130;Q9Y2Y9;P54845;Q13148;P50549;Q13888;Q03933;Q8N684;Q13951;Q9Y651;Q9NR48;P15407;Q9UKN5;P18848;Q14814;P40763;Q14241;P28069;O60583;P61201;Q15573;Q9Y2Y4;P61326;P78545;Q15287;Q9H3P2;Q15545;P53803;P61218;O00268;O94913;O14503;Q969L4;Q9Y5B9;Q99814;O75448;Q86V81;O60682;Q00978;P51948;O15164;P18615;Q16594;Q16629;O95644;O96004;Q15714;Q07955;P20290;O14776;P51610;O95125;Q09161;Q8WX92;P10914;Q9H944;P14678;P01100;Q15572;Q14934;P22415;P62487;Q8NEA6;Q16633;Q9UBL3;Q5SXM2;P19388;P29084;Q92830;O75444;Q14653;P49716;Q8NBF1;Q03468;Q12968;Q15650;Q9UIS9;P13984;Q02930;P62306;Q96JN0;O60508;Q15928;O15266;O14641;P23511;Q92759;Q16649;P32780;O75529;Q9UKW6;P35711;Q9Y5B0;P16220;Q15699;P52435;P49848;P62318;Q92905;Q6P4R8;Q10570;Q9P2I0;P35269;Q14585;Q01081;P05412;Q9Y4A8;P29083;Q92985;Q16514;Q05519;P67809;O75376;Q9H5H4;Q15369;P83369;Q9H7N4;Q00403;P50613;O95905;P10827;O43812;O00267;P56693;O94993;P23193;Q99583;P84103;P55199;Q9UK39;P61244;Q6ZN01;P49715;P55347;Q8IXH7;Q5VTD9;Q08945;P52737;Q96AE4;Q92750;P21675;P46937;Q08050;Q12962;P19387;Q92966;O75486;P82094;P35232;P35869;P63272;Q16534;Q9UHB7;O00625;P52655;O94916;P24928;P623

- 08;P52298;P30876;P38159;P52434;Q15543;O00712;P26368;P15336;Q14119;P51003;Q86Y01;P19447;P17275;Q86U42;Q8IYF1;P19838;P20823;P62380;Q03111;Q8WTR7;Q6P1K2;P78347;O75478;P1161;Q9UKF6;P17861;Q01860;Q15544;Q14493;P52747;Q9NPJ6;Q13887;Q9ULX9;Q14938;P33240;O14770;P23760;P62875;Q95997;Q9NR55;Q8WVJ9;O43809;Q9Y5S9;Q13287;P20226;Q12986;Q13761}
- 97 Pathogen[ P14079] interacts with 242 human partners: {O14776;Q96JN0;O00625;O43809;O75031;Q14585;Q5SXM2;Q9UQR1;Q9Y5B9;Q12986;P35711;P62875;O15164;Q9Y2X0;P55199;P09874;Q15287;Q08945;Q8WTR7;Q9Y2Y4;Q15573;P35869;Q02078;O95125;Q99814;Q9UIS9;Q14241;Q06413;Q06546;O60508;P61201;Q16649;Q14653;P19387;P52747;Q9Y5B0;P35269;Q13148;P51946;Q16594;Q99581;Q92830;Q8IXH7;Q9Y2Y9;Q14938;Q15911;Q9Y2N7;Q9UKF6;Q9UKD1;P67809;Q15714;P62487;Q92966;Q9UBL3;O60682;P55347;P09086;O14641;Q8TE85;P19388;Q00403;Q9UK39;Q9H7N4;Q01860;Q15543;Q5VTD9;P11161;Q8N5Y2;Q12962;Q9BZI7;P29374;Q02930;P49715;O15266;Q14934;Q05519;P49848;Q8N684;P52435;P63272;P50549;P17275;Q86V81;P15336;Q92750;Q86U42;P62308;Q9H944;O43294;Q15370;Q92759;O75909;Q9UNN4;Q14134;Q92905;P62304;P78424;Q9Y603;Q9NPJ6;Q9ULX9;Q07955;Q92754;Q03701;O75444;Q969L4;P52657;P56693;Q16236;O95997;Q6P4R8;Q8N3X6;Q8WX92;P32780;O14770;Q14814;Q01081;P35659;P23193;P13984;Q14493;Q15407;Q00978;O75376;O60583;Q75478;Q15928;Q8IYF1;Q9NR55;P78545;Q03468;Q13761;P24928;Q8NEA6;Q15369;P51003;O14503;Q12996;Q9UKN5;P05412;Q15650;Q9Y4A8;P49716;Q16514;Q16534;P78347;Q14901;O00267;P62318;Q13287;P36954;Q9H5H4;O75486;P61244;Q13951;O75971;P01100;P23511;Q9UKW6;Q15542;Q9UHF7;O94993;P19447;Q09161;Q15643;Q8NBF1;P10914;P84103;P29083;P21675;O00268;P38159;Q6P1K2;Q9P2I0;P50750;P20290;Q15545;O00712;Q14119;P23760;O94916;P22415;P51948}
- 98 Pathogen[ P03383] interacts with 216 human partners: {Q9UQR1;Q13761;P53803;Q07955;P55199;P10914;O15266;P11831;Q15287;Q05048;P50549;Q15369;P63272;Q14653;P20290;P51003;Q9H3P2;O43148;P29084;Q969L4;O75478;P16220;P28069;Q15544;Q16633;P35269;P51948;P62318;Q9H944;Q6P4R8;Q9H5H4;P14921;O75376;Q8WVJ9;Q15572;O75486;Q15650;Q03111;Q86U70;Q13487;Q12986;P78347;Q13888;Q9Y5S9;P23511;Q9UL49;P23193;Q9UKW6;Q9Y2Y9;O95644;Q92905;Q92966;P17861;Q10570;P52655;P62304;P61201;Q15714;P61326;Q15542;O00712;Q9ULW3;Q9UK39;P52434;P61218;P26368;Q13243;O14503;Q14814;Q01860;Q08945;Q86V81;Q9NPJ6;Q00978;Q9H7N4;Q8TE85;Q9UKF6;O00267;P18146;Q9Y2T7;P38159;Q00403;P55347;Q09161;Q16629;P20226;O14770;Q13287;P08651;P52657;Q14934;O75448;O96004;P62487;O75529;Q15643;Q8N684;P51610;O94913;Q8IYB3;Q16594;Q92985;Q8IXH7;Q92985;P52747;P19387;P33240;Q15928;O60563;P84103;P50613;P13984;O95125;O14641;Q13951;P51946;P24928;Q03468;Q01130;Q92830;O00625;P17676;P09874;Q14493;P49848;Q9Y2N7;Q8N3X6;O75909;P15407;P50750;O75971;Q12968;P35711;P14678;Q9UKN5;Q9UNN4;O00268;Q01081;Q16514;Q92759;O14776;Q15573;P35232;Q16236;Q96JN0;O43809;P52298;P52737;Q99583;Q9UHB7;P01100;P11161;Q05519;Q92750;Q92754;P23760;P62875;P21675;Q6P1K2;Q96AE4;Q9Y4A8;P52435;O95997;Q8WTR7;P78545;P82094;Q9P2I0;Q9Y5B0;Q15370;Q12962;P62308;P19388;Q13148;P29083;P15336;P18848;P83369;P30876;Q02930;Q86Y01;Q15545;Q6ZN01;Q15699;Q5SXM2;P17275;Q86U42;O75444;Q14585;P61244;P19838;P35869;P56693;P67809;Q16534;P46937;Q9Y603;Q14241;Q9ULX9;O60583;Q9UHF7;Q06546;Q9Y5B9;Q9Y2X0;P32780;P18615;Q02078;Q8WX92;Q9UIS9;P62306;P22415;O95905;Q9BZI7;Q15543;Q03933;P05412}
- 99 Pathogen[ P03410] interacts with 245 human partners: {Q15650;Q92830;Q9UHF7;O60583;Q08945;P28069;O14901;Q15714;P11831;Q8NBF1;P82094;P19838;P52655;P51610;Q9UNN4;Q15572;Q6ZN01;Q01081;Q9UK39;Q9Y2Y9;P29374;P26368;Q10570;P61326;P19387;P62304;Q13889;O60508;P17861;P18615;P36954;Q9H3P2;O00268;Q12996;Q8WTR7;Q8WVJ9;Q05048;O96004;Q15543;Q16629;Q8N3X6;P17676;P23511;O94916;Q92750;Q99814;O00267;Q9Y5B9;P62306;P63272;Q12968;O95125;O60682;Q01860;P24928;Q15287;Q9UKD1;P54845;Q12962;P21675;O75031;P29083;Q14938;P18848;Q9Y2N7;O15266;Q9Y5S9;Q14493;Q14814;P78545;Q9UL49;Q14653;P51946;O75444;Q16236;Q9NPJ6;Q92905;P62380;O43294;P30876;P20226;Q15370;P62308;P14678;Q16633;O75376;P49716;O95997;P23193;Q33468;P52657;O15514;P50613;Q03933;O00712;Q9UKW6;P01100;P61244;Q9BZI7;O75486;P35659;P50549;Q9UQR1;P51003;Q9H7N4;Q9Y603;Q13148;Q15928;O43809;O95644;Q02930;P50750;P67809;O00625;Q9UHB7;O60563;P08651;Q12986;P55199;O95905;Q8IYF1;Q86Y01;Q15573;Q05519;Q8IXH7;Q8TE85;Q13287;Q8WX92;P29084;Q15369;Q16649;Q8NEA6;P52737;P52435;O94913;Q9UKN5;Q07955;P52298;Q16514;Q9P2I0;P17275;P49848;P83369;Q6P1K2;P33240;P53803;Q6P4R8;Q86U70;Q14119;O75909;P19447;P22415;P10914;Q9ULX9;Q99583;Q86V81;P62875;O14776;P09874;P16220;P56693;Q00403;Q14585;P46937;P20290;Q15699;P35269;Q8IYB3;Q16594;P61218;P05412;P61201;P51948;Q96JN0;Q9Y5B0;Q15544;Q15643;Q13888;P55347;Q01130;Q9Y2Y4;Q13951;Q969L4;Q9ULW3;Q9UKF6;P52434;Q13761;Q9UIS9;P13984;Q92966;Q02078;Q15542;Q8N684;Q16534;P62487;O43812;Q13487;Q09161;P23760;O43148;Q9Y2X0;O75478;P78347;P84103;P15407;Q9Y4A8;Q03701;Q86U42;O75529;Q9Y2T7;O94993;Q9H944;Q92985;P35232;P18146;Q5VTD9;Q13243;P78424;P38159;Q5SXM2;P15336;P11161;P19388;Q9NR55;Q8N5Y2;Q14241;P40763;P32780;Q96AE4;O75971;Q14934;Q00978;O75448;P15976;O14770;Q92759;Q06546;Q15545;Q9H5H4;Q92754;Q03111;P14921;P52747;O14641;P62318}
- 100 Pathogen[ P14075] interacts with 221 human partners: {Q16633;P28069;Q6P4R8;P51003;Q15572;P35869;P62304;Q15643;Q05519;Q12962;Q09161;Q86U70;P13984;P35659;Q9NPJ6;Q92759;O43809;P21675;Q9P2I0;Q13951;P52737;Q92966;Q9UQR1;P52657;P05412;Q15542;P18615;Q14938;Q6ZN01;Q15928;Q86V81;Q13243;P11831;P52747;P78545;P17861;Q08945;P30876;P61326;Q9UKN5;Q14493;O75444;P17275;Q9Y4A8;Q00403;P82094;Q8TE85;Q06546;O60563;O14776;Q9Y5B0;P29083;Q75971;P61244;P50613;Q13287;Q14241;Q01860;P61201;P38159;Q03933;P51610;P11161;Q08050;Q15714;P18146;P29084;Q9Y2N7;P19388;Q9Y603;Q01130;P61218;P50750;O60583;O95997;Q9ULX9;P78347;Q9H7N4;O00625;Q5SXM2;Q15544;O75448;P193

- 87;P62306;P56693;Q00978;P20226;P15336;P62308;Q92754;Q13148;Q14585;Q16594;Q92750;Q8WV  
 J9;O14503;O75376;P55347;P62487;Q03468;P35711;O96004;P35232;Q8WTR7;O14770;O75478;Q129  
 86;Q14653;P62318;P83369;Q15370;O14641;P54845;Q9UHB7;P23193;P33240;Q15650;Q9Y2T7;Q138  
 89;Q9UL49;Q05048;Q9Y5B9;P49848;Q15287;Q9UIS9;Q9H944;P24928;Q9UHF7;Q14934;Q15573;P352  
 69;Q9ULW3;P26368;Q9UK39;P52655;Q01081;Q9UKD1;Q16514;P67809;Q15545;P23511;P18848;Q8IY  
 B3;Q13487;P08651;P14921;Q02078;P50549;P51946;P32780;P55199;P01100;Q14134;O00268;P146  
 78;Q9UNN4;P20290;O00712;Q9UKW6;Q9Y5S9;Q15699;P46937;O75486;P19838;O15266;P16220;P841  
 03;Q6P1K2;O43148;Q9H3P2;O75529;O95125;P22415;Q92985;Q8N3X6;P15407;P23760;P62875;Q995  
 83;P17676;Q16236;Q8IXH7;Q96JN0;Q86Y01;Q8N684;P10914;O75909;Q9UKF6;Q92905;O00267;Q86U  
 42;Q92830;Q15369;Q16629;P52434;Q96AE4;Q14814;Q03111;P63272;Q12968;Q10570;Q02930;Q969  
 L4;Q95644;Q9Y2Y9;P09874;Q9Y2X0;O94913;O95905;Q07955;P51948;P52298;Q8WX92;P52435;O750  
 31;P53803;Q15543;Q13761;Q9BZI7;Q16534;Q13888}
- 101 Pathogen[ P0C206] interacts with 263 human  
 partners: {Q8TE85;P46937;Q13887;Q15287;O75486;Q86Y01;P67809;P10914;P33240;P78424;Q9H5  
 H4;Q16649;P62875;Q8IXH7;Q9UKF6;P14678;O60508;Q9BZI7;P23193;Q92830;Q06546;Q15545;Q079  
 55;P26368;P52298;Q16514;Q03701;Q15543;Q8N3X6;P49848;P61326;P14921;Q15911;Q01081;Q9Y4  
 A8;Q9NR55;P36954;Q02078;O15266;P50750;Q9Y2N7;P15407;P20226;P11161;Q09161;Q15544;P162  
 20;P17275;P35869;P09874;P20290;P08651;O75444;O43812;O94913;P62304;Q9Y2Y9;Q05519;Q8IY  
 B3;Q01860;Q99583;P62380;P52657;Q9H7N4;Q02548;P52737;P29374;P52655;O95997;Q8WTR7;Q9UH  
 B7;Q03933;P19388;P61218;P05412;Q8IYF1;Q8N684;O00268;Q9C0J9;Q13951;Q9UL49;Q03468;P153  
 36;Q13243;Q16629;Q86U42;Q15572;O00625;P61201;Q9Y5B9;P49715;O15164;Q12968;P56693;P510  
 03;O95905;O14770;P54845;Q9UNN4;P15976;O75529;O43809;Q13287;P29084;Q15699;Q13487;Q9Y6  
 03;Q8WVJ9;Q14241;O95125;Q14938;Q9P2I0;P13984;Q03111;P18146;P83369;O75971;Q8NEA6;O960  
 04;P19447;P17861;Q92754;Q5SXM2;P23511;Q6P1K2;P53803;O60682;Q92750;P78347;P19838;Q166  
 33;O15514;Q99581;P35269;P22415;Q9Y5B0;Q15650;P19387;P35711;Q13888;P38159;Q05048;P090  
 86;O00712;P50613;Q9UIS9;P50549;Q9ULW3;Q9UKN5;P17676;O94993;P35232;Q9NR48;P18615;Q96J  
 N0;Q12986;P29083;P51610;Q9UHF7;Q9H944;Q92985;Q9NPJ6;P01100;Q9UQR1;P20823;O94916;Q927  
 59;P62318;Q15370;P78545;Q02930;Q16534;Q12996;O43294;Q8NBF1;O75376;O00267;O75478;P407  
 63;Q15573;Q9H3P2;P61244;P23760;P52435;O14776;P62306;P62487;Q13148;P32780;Q15542;Q929  
 66;Q14934;O75909;P11831;Q08050;Q00978;Q15928;P84103;Q13889;Q9UBL3;Q9UK39;P49716;Q9UK  
 W6;P35659;Q8WX92;Q16236;Q9UKD1;O14901;Q5VTD9;P52747;Q86U70;O75448;Q14134;Q14814;O750  
 31;Q12962;P24928;Q96AE4;P55199;O75398;Q99814;Q14585;O95644;O60583;P61968;Q9Y2X0;P280  
 69;P62308;Q00403;Q01130;Q15643;O60563;Q14119;Q9Y2T7;O43148;Q14493;Q15369;Q08945;P188  
 48;Q6P4R8;Q15714;Q8N5Y2;Q13761;P52434;P82094;Q6ZNO1;Q9Y5S9;Q86V81;P10827;P21675;P519  
 46;Q9ULX9;P63272;Q969L4;P51948;Q10570;Q16594;Q14653;Q9Y2Y4;Q92905;P55347;P30876;Q9Y6  
 51}
- 102 Pathogen[ P03363] interacts with 260 human  
 partners: {Q16236;Q15911;Q14653;Q86U70;Q9UNN4;Q9NR55;Q5VTD9;Q15699;Q86Y01;O15266;O438  
 12;Q9UKD1;O14901;P18848;Q9ULW3;P35453;P49716;Q16649;Q8N5Y2;Q9UHF7;P29374;Q6P1K2;Q929  
 85;P62380;P29083;P29084;Q92766;P35711;Q13487;Q9P2I0;Q9Y5B0;Q15370;Q9Y5B0;Q14938;Q105  
 70;P49848;P17676;P18146;O00712;P19388;Q13148;Q02930;Q9UHB7;P13984;O60563;Q99626;P784  
 24;P55199;Q8WX92;Q15928;Q9UKN5;P61201;P08651;Q08170;Q06546;P30876;Q03933;Q9UKW6;Q138  
 88;Q05048;P32780;Q8IYF1;Q9Y4A8;Q92759;P23760;P19387;P09086;P61218;Q16514;O75909;P519  
 46;Q9UBL3;O75376;Q16629;Q15545;Q9C0J9;O95905;P35659;P62318;P16220;P24928;P14921;O002  
 68;P62304;Q9Y603;Q01130;O00267;Q96JN0;P55347;Q8NEA6;Q86U42;Q15369;Q92620;Q12986;Q9H5  
 H4;O94913;P35869;P17275;Q8IXH7;P18615;P61326;P54845;Q9UK39;P52657;P61244;P62306;Q055  
 19;P35269;Q9Y2Y9;P83369;Q15287;Q12962;Q8N684;P15336;Q13951;Q00403;Q8TE85;O75031;Q132  
 42;O75529;Q08050;P11831;P46937;P56693;Q8IYB3;P28069;O60583;O43809;Q14119;P38159;P527  
 37;Q15544;Q96AE4;Q03111;P26368;Q9H7N4;Q9Y5B9;Q14241;Q14814;Q9UPN6;P78545;Q92830;P510  
 03;Q9H3P2;O75444;Q14134;Q13243;P17861;P7861;Q86V81;Q9Y2N7;O94916;O96004;Q15542;P10914;P522  
 98;O43148;P50549;Q92966;P15407;P22415;P20290;Q92750;P19838;Q99814;Q16633;O75971;O951  
 25;O75448;P62487;P21675;Q9NR48;Q14585;P23193;O60682;Q9Y651;Q00978;P20226;P52655;Q9Y2  
 Y4;Q12968;P49335;Q03468;P63272;P50750;P78367;Q08945;Q6ZNO1;Q9UQR1;Q07955;O00625;Q9NP  
 J6;O75398;Q01081;O95644;Q15714;P35232;Q9BZI7;O94993;P05412;Q969L4;Q13247;Q5SXM2;P149  
 34;Q99581;O95997;O75486;O14776;Q15573;P09874;P62308;Q02548;Q8IYA7;Q8WTR7;Q9UKF6;P841  
 03;O75478;P82094;Q03701;Q13761;Q14493;P14678;Q15543;P53803;P52435;Q13287;Q15572;P524  
 34;O14641;Q16534;O15522;Q9ULX9;P33240;Q9Y2T7;Q15643;Q9UL49;Q99583;P78347;Q8WVJ9;Q018  
 60;Q9Y5S9;Q8N3X6;Q9H944;Q12996;Q92905;Q8NBF1;Q6P4R8;O14503;Q15650;P51610;P67809;P527  
 47;O60508;P23511;Q09161;Q92754;Q9UIS9;Q16594;P01100;P11161;Q02078}
- 103 [Cluster 10]GO:0071354+P biological\_process [name] cellular response to  
 interleukin-6 [def] "Any process that results in a change in state or activity of a  
 cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a  
 result of an interleukin-6 stimulus." [GOC
- 104 Pathogen[ Q2Q067] interacts with 2 human partners: {Q7Z2X4;P35232}
- 105 Pathogen[ P0C214] interacts with 2 human partners: {Q7Z2X4;P35232}
- 106 Pathogen[ P03346] interacts with 2 human partners: {Q7Z2X4;P35232}
- 107 Pathogen[ Q85601] interacts with 2 human partners: {Q7Z2X4;P35232}
- 108 Pathogen[ P14079] interacts with 3 human partners: {Q14242;P35232;Q7Z2X4}
- 109 Pathogen[ P03383] interacts with 1 human partners: {P35232}
- 110 Pathogen[ P03410] interacts with 3 human partners: {Q14242;Q7Z2X4;P35232}
- 111 Pathogen[ P14075] interacts with 1 human partners: {P35232}
- 112 Pathogen[ P0C206] interacts with 2 human partners: {Q7Z2X4;P35232}
- 113 Pathogen[ P03363] interacts with 1 human partners: {P35232}
- 114 [Cluster 11]GO:2000060+P biological\_process [name] positive regulation of protein  
 ubiquitination involved in ubiquitin-dependent protein catabolic process [def] "Any  
 process that activates or increases the frequency, rate or extent of protein

ubiquitination involved in ubiquitin-dependent protein catabolic process." [GOC

115 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9NRI5;Q969H0;Q8NEZ5}

116 Pathogen[ POC214] interacts with 3 human partners:{Q9NRI5;Q969H0;P10909}

117 Pathogen[ P03346] interacts with 3 human partners:{Q9NRI5;Q8NEZ5;Q969H0}

118 Pathogen[ Q85601] interacts with 3 human partners:{Q969H0;Q9NRI5;Q8NEZ5}

119 Pathogen[ P14079] interacts with 4 human partners:{Q969H0;Q9NRI5;P10909;Q8NEZ5}

120 Pathogen[ P03383] interacts with 3 human partners:{Q9NRI5;Q969H0;Q8NEZ5}

121 Pathogen[ P03410] interacts with 4 human partners:{Q969H0;Q8NEZ5;Q9NRI5;P10909}

122 Pathogen[ P14075] interacts with 3 human partners:{Q9NRI5;Q8NEZ5;Q969H0}

123 Pathogen[ POC206] interacts with 4 human partners:{Q969H0;Q9NRI5;P10909;Q8NEZ5}

124 Pathogen[ P03363] interacts with 3 human partners:{Q8NEZ5;Q969H0;Q9NRI5}

125 [Cluster 12]GO:0034970+P biological\_process [name] histone H3-R2 methylation  
[def] "The modification of histone H3 by addition of a methyl group to arginine at  
position 2 of the histone." [GOC

126 Pathogen[ Q2Q067] interacts with 2 human partners:{Q96LA8;Q86X55}

127 Pathogen[ POC214] interacts with 2 human partners:{Q86X55;Q96LA8}

128 Pathogen[ P03346] interacts with 2 human partners:{Q86X55;Q96LA8}

129 Pathogen[ Q85601] interacts with 2 human partners:{Q86X55;Q96LA8}

130 Pathogen[ P14079] interacts with 1 human partners:{Q96LA8}

131 Pathogen[ P03383] interacts with 2 human partners:{Q86X55;Q96LA8}

132 Pathogen[ P03410] interacts with 2 human partners:{Q96LA8;Q86X55}

133 Pathogen[ P14075] interacts with 2 human partners:{Q96LA8;Q86X55}

134 Pathogen[ POC206] interacts with 2 human partners:{Q86X55;Q96LA8}

135 Pathogen[ P03363] interacts with 2 human partners:{Q96LA8;Q86X55}

136 [Cluster 13]GO:0045358+P biological\_process [name] negative regulation of  
interferon-beta biosynthetic process [def] "Any process that stops, prevents, or  
reduces the frequency, rate or extent of the chemical reactions and pathways resulting  
in the formation of interferon-beta." [GOC

137 Pathogen[ Q2Q067] interacts with 1 human partners:{Q14653}

138 Pathogen[ POC214] interacts with 1 human partners:{Q14653}

139 Pathogen[ P03346] interacts with 1 human partners:{Q14653}

140 Pathogen[ Q85601] interacts with 1 human partners:{Q14653}

141 Pathogen[ P14079] interacts with 1 human partners:{Q14653}

142 Pathogen[ P03383] interacts with 1 human partners:{Q14653}

143 Pathogen[ P03410] interacts with 1 human partners:{Q14653}

144 Pathogen[ P14075] interacts with 1 human partners:{Q14653}

145 Pathogen[ POC206] interacts with 1 human partners:{Q14653}

146 Pathogen[ P03363] interacts with 1 human partners:{Q14653}

147 [Cluster 14]GO:0048208+P biological\_process [name] COPII vesicle coating [def]  
"The addition of COPII proteins and adaptor proteins to ER membranes during the  
formation of transport vesicles, forming a vesicle coat." [GOC

148 Pathogen[ Q2Q067] interacts with 10 human  
partners:{O15027;P55735;P53992;O95486;O94855;Q53G59;Q96JE7;Q13618;O95487;Q15436}

149 Pathogen[ POC214] interacts with 10 human  
partners:{P55735;P53992;Q13618;Q15436;O95487;Q53G59;Q96JE7;O15027;O95486;O94855}

150 Pathogen[ P03346] interacts with 12 human  
partners:{P55735;O15027;Q13618;O94855;Q15436;Q96JE7;O95486;Q9HCU5;O95487;P49755;P539  
92;Q15363}

151 Pathogen[ Q85601] interacts with 10 human  
partners:{O15027;O95487;Q96JE7;Q15436;P55735;O95486;Q13618;Q53G59;O94855;P53992}

152 Pathogen[ P14079] interacts with 11 human  
partners:{O15027;O95487;Q13618;O94855;P53992;Q96JE7;Q15363;P49755;P55735;O95486;Q53G  
59}

153 Pathogen[ P03383] interacts with 10 human  
partners:{P55735;O95487;O95486;Q15436;Q13618;Q53G59;O94855;O15027;Q96JE7;P53992}

154 Pathogen[ P03410] interacts with 12 human  
partners:{Q53G59;O94855;P53992;Q13618;Q15436;O95486;Q15363;Q96JE7;Q9HCU5;O15027;P557  
35;O95487}

155 Pathogen[ P14075] interacts with 10 human  
partners:{Q96JE7;Q13618;Q53G59;O15027;P53992;P55735;O95487;Q15436;O94855;O95486}

156 Pathogen[ POC206] interacts with 12 human  
partners:{O94855;P49755;P55735;Q13618;O95486;Q96JE7;O95487;P53992;Q15363;Q53G59;O150  
27;Q15436}

157 Pathogen[ P03363] interacts with 8 human  
partners:{Q13618;Q15436;O95486;Q53G59;P53992;O95487;P55735;O94855}

158 [Cluster 15]GO:0009987+P biological\_process [name] cellular process [def] "Any  
process that is carried out at the cellular level, but not necessarily restricted to a  
single cell. For example, cell communication occurs among more than one cell, but occurs  
at the cellular level." [GOC

159 Pathogen[ Q2Q067] interacts with 4 human partners:{Q9UQ80;Q8IZP0;Q6PGN9;Q9Y5B9}

160 Pathogen[ POC214] interacts with 6 human  
partners:{Q8IZP0;P17275;Q6PGN9;Q9Y5B9;P05412;Q9UQ80}

161 Pathogen[ P03346] interacts with 6 human  
partners:{P05412;Q9UQ80;Q8IZP0;P17275;Q9Y5B9;Q6PGN9}

162 Pathogen[ Q85601] interacts with 6 human  
partners:{Q6PGN9;Q9UQ80;Q9Y5B9;P05412;Q8IZP0;P17275}

163 Pathogen[ P14079] interacts with 6 human  
partners:{Q9Y5B9;Q8IZP0;P17275;Q6PGN9;P05412;Q9UQ80}

164 Pathogen[ P03383] interacts with 5 human  
partners:{Q6PGN9;Q9UQ80;P17275;Q9Y5B9;P05412}

165 Pathogen[ P03410] interacts with 6 human  
partners:{Q9Y5B9;Q9UQ80;P17275;Q8IZP0;P05412;Q6PGN9}

166 Pathogen[ P14075] interacts with 5 human  
partners:{P05412;P17275;Q9Y5B9;Q9UQ80;Q6PGN9}

167 Pathogen[ P0C206] interacts with 6 human  
partners:{P17275;P05412;Q9Y5B9;Q6PGN9;Q8IZP0;Q9UQ80}

168 Pathogen[ P03363] interacts with 6 human  
partners:{Q8IZP0;Q9UQ80;P17275;Q6PGN9;Q9Y5B9;P05412}

169 [Cluster 16]GO:0051965+P biological\_process [name] positive regulation of synapse  
assembly [def] "Any process that activates, maintains or increases the frequency,  
rate or extent of synapse assembly, the aggregation, arrangement and bonding together of  
a set of components to form a synapse." [GOC

170 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9H2P0;Q15819}

171 Pathogen[ P0C214] interacts with 2 human partners:{Q15819;Q9H2P0}

172 Pathogen[ P03346] interacts with 2 human partners:{Q9H2P0;Q15819}

173 Pathogen[ Q85601] interacts with 2 human partners:{Q9H2P0;Q15819}

174 Pathogen[ P14079] interacts with 2 human partners:{Q15819;Q9H2P0}

175 Pathogen[ P03383] interacts with 1 human partners:{Q15819}

176 Pathogen[ P03410] interacts with 1 human partners:{Q15819}

177 Pathogen[ P14075] interacts with 1 human partners:{Q15819}

178 Pathogen[ P0C206] interacts with 2 human partners:{Q15819;Q9H2P0}

179 Pathogen[ P03363] interacts with 2 human partners:{Q9H2P0;Q15819}

180 [Cluster 17]GO:0071385+P biological\_process [name] cellular response to  
glucocorticoid stimulus [def] "Any process that results in a change in state or activity  
of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as  
a result of a glucocorticoid stimulus. Glucocorticoids are hormonal C21 corticosteroids  
synthesized from cholesterol with the ability to bind with the cortisol receptor and  
trigger similar effects. Glucocorticoids act primarily on carbohydrate and protein  
metabolism, and have anti-inflammatory effects." [GOC

181 Pathogen[ Q2Q067] interacts with 4 human partners:{P15172;Q13127;P35869;P68036}

182 Pathogen[ P0C214] interacts with 3 human partners:{P35869;P15172;Q13127}

183 Pathogen[ P03346] interacts with 4 human partners:{P68036;P15172;P35869;Q13127}

184 Pathogen[ Q85601] interacts with 4 human partners:{Q13127;P15172;P68036;P35869}

185 Pathogen[ P14079] interacts with 4 human partners:{P04083;P35869;P68036;Q13127}

186 Pathogen[ P03383] interacts with 4 human partners:{P15172;P68036;P35869;Q13127}

187 Pathogen[ P03410] interacts with 2 human partners:{P68036;Q13127}

188 Pathogen[ P14075] interacts with 4 human partners:{P35869;P68036;P15172;Q13127}

189 Pathogen[ P0C206] interacts with 4 human partners:{Q13127;P35869;P68036;P15172}

190 Pathogen[ P03363] interacts with 4 human partners:{P35869;Q13127;P15172;P68036}

191 [Cluster 18]GO:0048066+P biological\_process [name] developmental pigmentation  
[def] "The developmental process that results in the deposition of coloring matter in an  
organism, tissue or cell." [ISBN

192 Pathogen[ Q2Q067] interacts with 1 human partners:{Q6QNY0}

193 Pathogen[ P0C214] interacts with 1 human partners:{Q6QNY0}

194 Pathogen[ P03346] interacts with 1 human partners:{Q6QNY0}

195 Pathogen[ Q85601] interacts with 1 human partners:{Q6QNY0}

196 Pathogen[ P14079] interacts with 1 human partners:{Q6QNY0}

197 Pathogen[ P03383] interacts with 1 human partners:{Q6QNY0}

198 Pathogen[ P03410] interacts with 1 human partners:{Q6QNY0}

199 Pathogen[ P14075] interacts with 1 human partners:{Q6QNY0}

200 Pathogen[ P0C206] interacts with 1 human partners:{Q6QNY0}

201 Pathogen[ P03363] interacts with 1 human partners:{Q6QNY0}

202 [Cluster 19]GO:0000187+P biological\_process [name] activation of MAPK activity  
[def] "The initiation of the activity of the inactive enzyme MAP kinase by  
phosphorylation by a MAPKK." [PMID

203 Pathogen[ Q2Q067] interacts with 11 human  
partners:{Q9NYJ8;O15350;Q8N5C8;Q9Y6K9;P0CG47;P0CG48;O43318;P62987;Q15759;Q15750;P629  
79}

204 Pathogen[ P0C214] interacts with 13 human  
partners:{Q9Y6K9;O15350;O43318;Q8N5C8;P18545;P0CG48;P62987;Q15750;Q15759;P0CG47;Q139  
56;P62979;Q9NYJ8}

205 Pathogen[ P03346] interacts with 12 human  
partners:{Q9Y6K9;P62987;P0CG48;O15350;Q8N5C8;Q5T686;Q9NYJ8;Q15750;P62979;Q15759;P0CG  
47;O43318}

206 Pathogen[ Q85601] interacts with 11 human  
partners:{Q15750;Q9NYJ8;P0CG48;Q8N5C8;Q9Y6K9;P62979;Q15759;P0CG47;O15350;P62987;O433  
18}

207 Pathogen[ P14079] interacts with 20 human  
partners:{Q8N5C8;Q8N307;P0CG48;O43187;P53779;P52564;Q15750;P62979;O15350;P62987;P185  
45;Q16644;Q13956;Q15759;Q9Y6K9;Q8WU20;P49023;P0CG47;Q9Y239;Q5T686}

208 Pathogen[ P03383] interacts with 11 human  
partners:{Q9Y6K9;P62987;O43318;Q8N5C8;O15350;Q15759;P62979;P0CG47;P0CG48;Q9NYJ8;Q157

50}

209 Pathogen[ P03410] interacts with 18 human  
partners:{POCG48;Q9Y239;Q15750;O43187;Q8N307;Q13956;P62979;O43318;P18545;Q9NYJ8;Q8N5  
C8;Q5T686;P62987;P53779;O15350;Q8WU20;Q9Y6K9;POCG47}

210 Pathogen[ P14075] interacts with 12 human  
partners:{Q15750;Q15759;Q8N5C8;POCG48;P62979;O15350;Q5T686;O43318;P62987;POCG47;Q9Y6  
K9;Q9NYJ8}

211 Pathogen[ P0C206] interacts with 15 human  
partners:{POCG48;Q9Y6K9;P18545;Q5T686;Q8N5C8;O43318;Q8WU20;P62979;Q13956;Q9NYJ8;POCG  
47;O15350;Q15750;P62987;Q15759}

212 Pathogen[ P03363] interacts with 7 human  
partners:{Q9NYJ8;Q9Y6K9;O43318;Q15750;Q13480;P62987;Q8N5C8}

213 [Cluster 20]GO:0070328+P biological\_process [name] triglyceride homeostasis [def]  
"Any process involved in the maintenance of an internal steady state of triglyceride  
within an organism or cell." [GOC

214 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9NP71;Q14397}

215 Pathogen[ P0C214] interacts with 2 human partners:{Q9NP71;Q14397}

216 Pathogen[ P03346] interacts with 2 human partners:{Q9NP71;Q14397}

217 Pathogen[ Q85601] interacts with 2 human partners:{Q9NP71;Q14397}

218 Pathogen[ P14079] interacts with 2 human partners:{Q14397;Q9NP71}

219 Pathogen[ P03383] interacts with 2 human partners:{Q9NP71;Q14397}

220 Pathogen[ P03410] interacts with 2 human partners:{Q14397;Q9NP71}

221 Pathogen[ P14075] interacts with 2 human partners:{Q9NP71;Q14397}

222 Pathogen[ P0C206] interacts with 2 human partners:{Q9NP71;Q14397}

223 Pathogen[ P03363] interacts with 2 human partners:{Q14397;Q9NP71}

224 [Cluster 21]GO:0032461+P biological\_process [name] positive regulation of protein  
oligomerization [def] "Any process that activates or increases the frequency, rate or  
extent of protein oligomerization." [GOC

225 Pathogen[ Q2Q067] interacts with 3 human partners:{P55957;Q13794;O14862}

226 Pathogen[ P0C214] interacts with 3 human partners:{P55957;Q13794;O14862}

227 Pathogen[ P03346] interacts with 4 human partners:{P55957;Q9Y371;O14862;Q13794}

228 Pathogen[ Q85601] interacts with 3 human partners:{P55957;O14862;Q13794}

229 Pathogen[ P14079] interacts with 4 human partners:{Q9Y371;Q13794;O14862;P55957}

230 Pathogen[ P03383] interacts with 3 human partners:{O14862;P55957;Q13794}

231 Pathogen[ P03410] interacts with 4 human partners:{O14862;Q13794;P55957;Q9Y371}

232 Pathogen[ P14075] interacts with 3 human partners:{P55957;O14862;Q13794}

233 Pathogen[ P0C206] interacts with 3 human partners:{O14862;P55957;Q13794}

234 Pathogen[ P03363] interacts with 3 human partners:{P55957;Q13794;O14862}

235 [Cluster 22]GO:0045862+P biological\_process [name] positive regulation of  
proteolysis [def] "Any process that activates or increases the frequency, rate or extent  
of the hydrolysis of a peptide bond or bonds within a protein." [GOC

236 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9Y297;Q92769;Q9NWT8}

237 Pathogen[ P0C214] interacts with 3 human partners:{Q9Y297;Q9NWT8;Q92769}

238 Pathogen[ P03346] interacts with 3 human partners:{Q9NWT8;Q92769;Q9Y297}

239 Pathogen[ Q85601] interacts with 2 human partners:{Q9NWT8;Q92769}

240 Pathogen[ P14079] interacts with 5 human  
partners:{Q9NWT8;Q92769;O60502;Q9Y366;Q9NWW5}

241 Pathogen[ P03383] interacts with 2 human partners:{Q9NWT8;Q92769}

242 Pathogen[ P03410] interacts with 5 human  
partners:{Q9NWW5;O60502;Q9Y366;Q92769;Q9NWT8}

243 Pathogen[ P14075] interacts with 2 human partners:{Q92769;Q9NWT8}

244 Pathogen[ P0C206] interacts with 2 human partners:{Q92769;Q9NWT8}

245 Pathogen[ P03363] interacts with 1 human partners:{Q9NWT8}

246 [Cluster 23]GO:0008360+P biological\_process [name] regulation of cell shape [def]  
"Any process that modulates the surface configuration of a cell." [GOC

247 Pathogen[ Q2Q067] interacts with 9 human  
partners:{Q96B97;Q9ULQ0;O75400;P20073;Q9UGP4;Q00587;Q9NSI6;P35579;Q9NRR3}

248 Pathogen[ P0C214] interacts with 11 human  
partners:{Q9UGP4;Q9NRR3;Q9NRR8;Q9NSI6;Q9ULQ0;P35580;O14613;Q7Z406;P20073;O75400;Q96B  
97}

249 Pathogen[ P03346] interacts with 14 human  
partners:{Q96AC1;Q96B97;P02549;Q9UGP4;P20073;P35579;Q9NRR3;O75400;Q9NSI6;Q00587;O146  
13;P16452;Q9NVR7;Q6ZMZ3}

250 Pathogen[ Q85601] interacts with 11 human  
partners:{P35579;O75400;Q9NRR3;Q7Z406;Q9NSI6;Q96B97;O14613;P20073;Q9UGP4;P35580;Q9UL  
Q0}

251 Pathogen[ P14079] interacts with 28 human  
partners:{P16452;P35579;P09327;Q8IXS6;O14613;Q9NSI6;O75400;Q9NRR3;Q9ULQ0;O75781;Q9NR  
R8;Q96B97;Q9NVR7;Q9UKI2;Q6NZY7;Q9NP74;Q9UEE9;O60610;Q96AC1;Q6ZMZ3;O43903;Q00587;P200  
73;P02549;Q9UPY6;Q9H3Q1;Q13145;Q9UGP4}

252 Pathogen[ P03383] interacts with 9 human  
partners:{Q9ULQ0;O75400;Q9NRR3;Q9UGP4;Q9NSI6;P35580;P35579;Q00587;P20073}

253 Pathogen[ P03410] interacts with 27 human  
partners:{O75781;Q9UPY6;O43903;O60610;Q6ZMZ3;Q9UGP4;Q9NRR3;Q13145;P16452;P35579;Q9UK  
I2;Q9UEE9;Q00587;Q9H3Q1;Q6NZY7;P02549;O75400;Q9NVR7;O14613;Q9ULQ0;Q9NSI6;P35580;P200  
73;Q8IXS6;Q96B97;Q9NP74;Q9NRR8}

254 Pathogen[ P14075] interacts with 11 human partners:{Q9NSI6;Q9UGP4;Q9ULQ0;P20073;O75400;Q00587;O14613;P35579;Q9NRR3;Q9UEE9;Q9NRR8}

255 Pathogen[ POC206] interacts with 16 human partners:{Q9NSI6;Q9UGP4;Q9NRR8;Q96B97;Q9NRR3;Q9UEE9;O14613;Q9NVR7;Q6ZMZ3;P16452;P35579;O75400;Q9ULQ0;P35580;P20073;Q00587}

256 Pathogen[ P03363] interacts with 17 human partners:{Q6ZMZ3;P02549;Q9UPY6;P35579;Q96B97;Q00587;Q7L576;P20073;O75400;Q9UGP4;Q9NSI6;O14613;Q9NVR7;Q9NRR3;Q96AC1;P16452;Q9ULQ0}

257 [Cluster 24]GO:0002053+P biological\_process [name] positive regulation of mesenchymal cell proliferation [def] "The process of activating or increasing the rate or extent of mesenchymal cell proliferation. Mesenchymal cells are loosely organized embryonic cells." [GOC

258 Pathogen[ Q2Q067] interacts with 4 human partners:{P04198;P01106;P42224;P54821}

259 Pathogen[ POC214] interacts with 3 human partners:{P42224;P01106;P04198}

260 Pathogen[ P03346] interacts with 5 human partners:{P54821;Q99811;P01106;P42224;P04198}

261 Pathogen[ Q85601] interacts with 3 human partners:{P01106;P42224;P04198}

262 Pathogen[ P14079] interacts with 4 human partners:{P54826;P04198;P01106;P42224}

263 Pathogen[ P03383] interacts with 2 human partners:{P01106;P04198}

264 Pathogen[ P03410] interacts with 3 human partners:{P01106;P54826;P04198}

265 Pathogen[ P14075] interacts with 3 human partners:{P04198;P01106;P54826}

266 Pathogen[ POC206] interacts with 5 human partners:{P54821;P04198;P01106;P54826;P42224}

267 Pathogen[ P03363] interacts with 4 human partners:{P04198;P01106;P54821;Q99811}

268 [Cluster 25]GO:0001657+P biological\_process [name] ureteric bud development [def] "The process whose specific outcome is the progression of the ureteric bud over time, from its formation to the mature structure." [GOC

269 Pathogen[ Q2Q067] interacts with 11 human partners:{Q99502;Q63HK5;Q12959;P84022;O15105;O43541;O15198;Q15796;Q9NSC2;Q99717;Q15797}

270 Pathogen[ POC214] interacts with 11 human partners:{O15198;P84022;Q63HK5;O15105;Q15796;Q9NSC2;O43541;Q12959;Q99717;Q15797;Q99502}

271 Pathogen[ P03346] interacts with 13 human partners:{Q15797;Q9NSC2;Q15796;Q63HK5;Q99717;O15105;Q99502;O15198;O43680;P84022;O43541;Q15475;Q12959}

272 Pathogen[ Q85601] interacts with 11 human partners:{O15198;O43541;Q15797;Q99717;Q99502;P84022;Q12959;O15105;Q9NSC2;Q63HK5;Q15796}

273 Pathogen[ P14079] interacts with 7 human partners:{Q99502;O15198;Q15797;O43541;Q63HK5;O15105;Q9NSC2}

274 Pathogen[ P03383] interacts with 8 human partners:{O15198;Q15797;O15105;P84022;Q99717;Q9NSC2;O43541;Q15796}

275 Pathogen[ P03410] interacts with 11 human partners:{P84022;Q99502;Q12959;Q99717;O15198;Q15797;O43541;O15105;Q63HK5;Q9NSC2;Q15796}

276 Pathogen[ P14075] interacts with 8 human partners:{Q9NSC2;O43541;Q99717;Q15796;O15198;O15105;Q99502;P84022}

277 Pathogen[ POC206] interacts with 11 human partners:{P84022;O43541;Q9NSC2;Q99717;Q15796;Q63HK5;O15105;Q15797;Q99502;O15198;Q12959}

278 Pathogen[ P03363] interacts with 9 human partners:{Q12959;O15105;Q15797;O43541;Q15796;P84022;Q63HK5;Q99717;O15198}

279 [Cluster 26]GO:0007605+P biological\_process [name] sensory perception of sound [def] "The series of events required for an organism to receive an auditory stimulus, convert it to a molecular signal, and recognize and characterize the signal. Sonic stimuli are detected in the form of vibrations and are processed to form a sound." [GOC

280 Pathogen[ Q2Q067] interacts with 17 human partners:{Q12837;Q99502;P78559;P10828;P49419;Q9BZE3;Q9Y6N9;O60907;O60765;P23760;P49639;P62072;Q9Y5J7;P63173;Q495M9;Q86XK2;P46527}

281 Pathogen[ POC214] interacts with 20 human partners:{P49419;P49639;Q9UM54;O60907;Q9BZE3;Q495M9;Q9Y6N9;P46527;P62072;P63173;Q12837;O60765;Q9Y5J7;P42574;P78559;Q9Y5J7;Q86XK2;P10828;P23760;Q99502}

282 Pathogen[ P03346] interacts with 27 human partners:{Q9Y6N9;P49639;O60443;P63173;O95677;P55273;O60907;O60765;Q9BZE3;Q12837;P23760;Q9Y5J7;P42574;Q86XK2;Q99502;Q9Y664;P49419;Q15475;P78559;P62072;P10828;Q8TBZ2;Q9P2D1;P46527;P49335;Q495M9;Q15319}

283 Pathogen[ Q85601] interacts with 22 human partners:{P49639;P55273;Q9P2D1;P63173;O95677;O60907;Q9BZE3;P62072;Q9Y5J9;Q9Y5J7;Q86XK2;O60765;Q99502;Q9Y6N9;P78559;Q9UM54;P10828;Q12837;Q495M9;P23760;P49419;P46527}

284 Pathogen[ P14079] interacts with 33 human partners:{A7XYQ1;Q8NHW6;Q9Y664;Q99502;P62072;O43597;P10828;O60907;Q86XK2;Q9Y5J7;Q9UM54;Q12837;P55273;Q7RTU9;Q9P2D1;P78559;Q9BZE3;P63173;O60610;Q8TCU4;Q4KMQ1;Q9Y6N9;Q495M9;P46527;Q0ZLH3;P49639;O60443;Q9Y5J9;O60765;Q8TDI8;Q9NQ40;Q9Y5L4;P23760}

285 Pathogen[ P03383] interacts with 14 human



partners:{Q9Y5J7;O60765;P62072;O60907;Q86XK2;P63173;P49639;P46527;Q12837;P23760;P78559;P10828;Q9Y5J9;P49419}

286 Pathogen[ P03410] interacts with 36 human  
partners:{Q8TDI8;Q9Y5L4;P46527;P62072;O60610;O43597;Q99502;Q495M9;Q9Y5J7;Q9BZE3;P55273;Q8TCU4;P10828;P63173;Q9NQ40;Q9Y6M9;Q0ZLH3;Q8NEW7;A7XYQ1;Q9UM54;Q9P2D1;Q86XK2;Q7RTU9;Q9Y6N9;Q8NHW6;P49419;O60443;P49639;P78559;Q9Y5J9;P23760;O60765;Q12837;Q9Y664;O60907;Q4KMQ1}

287 Pathogen[ P14075] interacts with 15 human  
partners:{Q9Y5J9;P62072;P10828;O60765;P78559;Q12837;P46527;P63173;P49419;O60907;Q9Y5J7;Q86XK2;Q99502;P23760;Q4KMQ1}

288 Pathogen[ P0C206] interacts with 29 human  
partners:{Q9Y5L4;Q9UM54;Q86XK2;O60907;Q9Y6N9;Q8TCU4;P49639;Q9P2D1;P78559;O60765;Q9Y5J9;Q9Y5J7;Q9BZE3;Q12837;O60443;P10828;Q495M9;P55273;P46527;P42574;O43597;P23760;P62072;Q99502;Q4KMQ1;P49419;P63173;A7XYQ1;Q95677}

289 Pathogen[ P03363] interacts with 19 human  
partners:{Q9Y6N9;P10828;P63173;P49419;O60443;P78559;Q8TBZ2;P23760;O60765;O60907;P49639;Q9BZE3;Q9Y5J7;Q495M9;Q86XK2;P49335;Q9Y664;Q12837;Q15319}

290 [Cluster 27]GO:0010508+P biological\_process [name] positive regulation of autophagy  
[def] "Any process that activates, maintains or increases the rate of autophagy. Autophagy is the process in which cells digest parts of their own cytoplasm." [GOC

291 Pathogen[ Q2Q067] interacts with 5 human  
partners:{Q9P2Y5;Q6ZNE5;Q86UE4;Q8IXH6;Q96A56}

292 Pathogen[ P0C214] interacts with 6 human  
partners:{Q92934;Q86UE4;Q6ZNE5;Q8IXH6;Q9P2Y5;Q96A56}

293 Pathogen[ P03346] interacts with 6 human  
partners:{Q86UE4;Q96A56;Q6ZNE5;Q96S99;Q9P2Y5;Q8IXH6}

294 Pathogen[ Q85601] interacts with 5 human  
partners:{Q96S99;Q9P2Y5;Q86UE4;Q96A56;Q8IXH6}

295 Pathogen[ P14079] interacts with 7 human  
partners:{Q96A56;Q8IXH6;Q96S99;Q6ZNE5;Q92934;Q86UE4;Q9P2Y5}

296 Pathogen[ P03383] interacts with 5 human  
partners:{Q96A56;Q86UE4;Q8IXH6;Q9P2Y5;Q6ZNE5}

297 Pathogen[ P03410] interacts with 7 human  
partners:{Q8IXH6;Q9P2Y5;Q96S99;Q92934;Q86UE4;Q96A56;Q6ZNE5}

298 Pathogen[ P14075] interacts with 5 human  
partners:{Q9P2Y5;Q6ZNE5;Q86UE4;Q8IXH6;Q96A56}

299 Pathogen[ P0C206] interacts with 7 human  
partners:{Q8IXH6;Q9P2Y5;Q6ZNE5;Q96A56;Q92934;Q96S99;Q86UE4}

300 Pathogen[ P03363] interacts with 5 human  
partners:{Q9P2Y5;Q86UE4;Q96A56;Q6ZNE5;Q8IXH6}

301 [Cluster 28]GO:0048663+P biological\_process [name] neuron fate commitment [def]  
"The process in which the developmental fate of a cell becomes restricted such that it will develop into a neuron." [GOC

302 Pathogen[ Q2Q067] interacts with 3 human partners:{Q13485;P23769;Q9H4S2}

303 Pathogen[ P0C214] interacts with 3 human partners:{P32243;P23769;Q13485}

304 Pathogen[ P03346] interacts with 9 human  
partners:{P52954;Q7RTS3;P23769;Q9H4S2;Q8TAK6;P23759;Q13516;Q13485;P32243}

305 Pathogen[ Q85601] interacts with 4 human partners:{P23769;P32243;Q13485;Q9H4S2}

306 Pathogen[ P14079] interacts with 2 human partners:{P32243;P23769}

307 Pathogen[ P03383] interacts with 3 human partners:{Q13485;P32243;P23769}

308 Pathogen[ P03410] interacts with 3 human partners:{Q13485;P32243;P23769}

309 Pathogen[ P14075] interacts with 3 human partners:{P23769;Q13485;P32243}

310 Pathogen[ P0C206] interacts with 4 human partners:{Q9H4S2;P32243;Q13485;P23769}

311 Pathogen[ P03363] interacts with 7 human  
partners:{Q8TAK6;Q13516;Q7RTS3;P32243;Q9H4S2;P23759;Q13485}

312 [Cluster 29]GO:0000084+P biological\_process [name] S phase of mitotic cell cycle  
[def] "S phase occurring as part of the mitotic cell cycle. S phase is the part of the cell cycle during which DNA synthesis takes place. A mitotic cell cycle is one which canonically comprises four successive phases called G1, S, G2, and M and includes replication of the genome and the subsequent segregation of chromosomes into daughter cells." [GOC

313 Pathogen[ Q2Q067] interacts with 83 human  
partners:{P83369;Q15054;Q99460;O75832;P48556;P40306;P55036;P24385;P06400;O00231;O00233;P27694;Q15910;P51665;Q99741;P28072;P61024;Q9H211;A5LHX3;P35244;Q13200;P25787;Q06323;P49005;Q13415;P30304;P28065;O14818;Q9Y248;P12004;Q14181;Q14691;Q14997;P51948;P60900;Q9UL46;P61289;Q9UBD5;P15927;P28062;P56282;Q9UNM6;P25788;Q9HCU8;O75419;Q13616;Q92530;P50613;P25786;P38936;P39748;Q16401;O00232;Q13309;Q9UM11;O43913;P28074;P25789;P0CG47;Q9Y5N6;Q13416;P20618;P0CG48;P25205;P35251;P28070;P28066;O14519;Q99436;P24941;Q8TA A3;Q9BRT9;P62987;O43242;P49721;P11802;P46527;P49720;Q9BTE3;P63208;Q969L4;P51946;P62979}

314 Pathogen[ P0C214] interacts with 86 human  
partners:{Q14997;P51665;P51946;P25789;P83369;P55036;P28062;A5LHX3;P28065;O43913;P50613;Q13309;O14818;Q969L4;P11802;O43242;P61024;P63208;P46527;P48556;P40306;P35251;Q15910;P24385;P49005;Q13200;Q9HCU8;P38936;O00232;Q9Y5N6;Q9Y248;P25205;Q9BTE3;Q99460;P28066;O75832;Q14566;P51948;P49720;P28074;P0CG48;Q9UL46;Q14691;P15927;P25788;P24941;O14519;Q9UNM6;O00231;P35244;Q06323;P25786;Q9H211;Q13616;P28072;Q8TAA3;P62987;O75419;Q994

- 36;P39748;P0CG47;P25787;Q15054;Q13416;Q6Y7W6;P27694;P35998;P60900;O00233;Q9UM11;P62979;P30304;P56282;Q92530;Q15008;Q9UBD5;P28070;P06400;P20618;P49721;Q99741;Q16401;P17980;Q13415;Q14181;Q9BRT9}
- 315 Pathogen[ P03346] interacts with 89 human  
partners: {P25787;P12004;P28070;P25789;P55036;P24385;Q9HCU8;Q99460;Q9UM11;Q13616;Q9UL46;P62987;P27694;P28072;P06400;P25788;Q9Y5N6;Q14691;P28074;P49721;Q9UBD5;P35244;Q14818;Q9BRT9;P35250;Q99436;P24941;P30304;P56282;P0CG48;Q16401;A5LHX3;P28062;P49005;P61024;P20618;O00232;P11802;O75832;O00233;Q14566;P25205;P83369;Q13309;P49720;P28065;Q9Y248;P51946;P60900;P33992;P25786;O00231;Q13415;P15927;P35249;P63208;P61289;Q14181;Q15910;P62979;P28066;Q9UNM6;P33991;Q8TAA3;P0CG47;Q13416;Q14997;Q13200;P48556;P35251;P51665;P38936;P39748;Q969L4;Q06323;O75419;P46527;P40937;Q99741;O14519;Q92530;Q9H211;O43929;P51948;O43242;Q9BTE3;O43913;P40306;Q15054}
- 316 Pathogen[ Q85601] interacts with 82 human  
partners: {P51946;P28066;Q9UNM6;P60900;O43913;Q13309;P55036;Q9BTE3;P24385;P25787;P61289;P56282;P06400;P25788;P35244;O75832;Q13415;Q9Y5N6;Q13616;Q6Y7W6;Q969L4;Q9Y248;Q9UBD5;P0CG48;P49005;P30304;O14519;P51948;P61024;Q15054;P27694;P11802;P25789;O00233;Q14566;Q9BRT9;P20618;P63208;P25205;P40306;P15927;P49720;P28062;P49721;P35251;P25786;Q14691;P83369;P28072;Q13200;P50613;P28065;Q14181;P62979;Q99436;P28070;Q9HCU8;Q9UM11;Q8TAA3;Q9UL46;Q99460;O00231;P0CG47;Q13416;Q15910;P48556;P12004;P28074;Q92530;P38936;P62987;P33992;A5LHX3;P39748;Q06323;O75419;Q99741;Q9H211;O14818;P24941;Q16401;P46527}
- 317 Pathogen[ P14079] interacts with 91 human  
partners: {P28065;Q99436;O14519;P62333;Q13416;Q9BRT9;P48556;P0CG48;Q5QGS0;O75419;Q14566;P51946;Q13415;Q13309;Q9Y5N6;P40937;P40306;P55036;P28074;O00232;P49005;O43913;Q14691;Q6Y7W6;Q9H211;P49720;O00487;P25787;O75832;Q9HCU8;A5LHX3;P62979;O00233;Q9BTE3;P35998;P61289;P30304;P62987;P83369;P51665;P20618;Q8TAA3;Q99741;P50613;Q15054;P35250;Q14997;P28062;P60900;Q9UBD5;Q9UM11;P38936;Q9UNM6;P56282;P35251;Q99460;Q14818;Q9Y248;P49721;Q92530;P49642;Q14181;Q969L4;O43929;P33992;P15927;Q06323;P27694;P62191;Q96FC9;P46527;P12004;Q15910;Q15008;P43686;O43242;P25788;P63208;O00231;Q13616;P28066;Q9UL46;P35244;P0CG47;P25205;Q16401;P17980;P28072;P39748;P61024;P51948}
- 318 Pathogen[ P03383] interacts with 75 human  
partners: {O14519;Q13616;Q9UBD5;P55036;P61024;Q969L4;Q9HCU8;P62987;P51948;P25789;P60900;Q14181;P27694;P40306;O00233;P25205;Q9BTE3;P30304;P49721;Q06323;P24385;Q14997;P63208;P49005;P20618;Q9Y248;P11802;P06400;O43913;P56282;O75832;P15927;P50613;Q9Y5N6;P51946;P46527;P24941;Q9UM11;Q9UL46;Q9UNM6;P35244;P25786;Q99460;Q9BRT9;P28072;Q13200;Q15054;P28062;P28066;O75419;Q16401;P62979;O00231;P0CG47;Q13416;Q15910;Q13309;P0CG48;Q14691;P28074;Q92530;P49720;Q8TAA3;P61289;P83369;P28062;P48556;O14818;Q99436;Q9H211;P28070;Q99741;P25787;P35251;P25788}
- 319 Pathogen[ P03410] interacts with 94 human  
partners: {P28070;Q5QGS0;P46527;P35244;P25205;P55036;O43929;P0CG48;Q14181;P25786;Q13416;Q15008;Q16401;P60900;O75419;Q14997;P35998;Q99460;O00233;P51946;Q9BTE3;O00232;Q8TAA3;P48556;P49721;Q9H211;P39748;P06400;P56282;A5LHX3;P62979;Q9BRT9;P50613;Q99436;P33992;P40306;Q06323;P24385;P63208;P35251;Q13200;P25787;Q9UM11;P38936;Q13309;P30304;P24941;P83369;P11802;P28062;P51665;Q15054;O14818;Q15910;O00231;Q9UNM6;P51948;P25789;P49720;Q13616;Q969L4;Q9Y248;P62987;Q6Y7W6;P61024;O14519;P49005;P27694;Q96FC9;P28072;P15927;Q14691;P35250;Q9Y5N6;P25788;O43913;P40937;Q14566;P28066;P12004;Q9UBD5;P28065;O43242;P0CG47;P17980;O75832;P20618;P49642;Q9HCU8;Q9UL46;P28074;P61289;Q13415;Q99741}
- 320 Pathogen[ P14075] interacts with 74 human  
partners: {P55036;P25788;Q9H211;P28066;P24941;P11802;Q06323;O75832;P61024;Q8TAA3;P60900;Q9UM11;O00233;Q9UL46;Q9Y5N6;P49720;P50613;Q9UBD5;O75419;Q15910;P49005;Q13200;P48556;Q16401;P15927;P28070;Q14691;P49721;Q9Y248;O00231;P46527;P49005;Q9BTE3;P63208;P35244;P0CG48;P62979;P28062;P83369;P28074;O14519;P25205;P28065;P35251;P25786;O14818;Q15054;P62987;Q13309;P28072;P30304;P06400;Q9BRT9;O43913;P27694;P51946;Q14997;P0CG47;P25787;Q13416;Q99741;P20618;Q9HCU8;P24385;P56282;Q9UNM6;Q13616;Q14181;P61289;P40306;Q99436;Q969L4;P51948;P25789}
- 321 Pathogen[ P0C206] interacts with 87 human  
partners: {P61289;Q99436;P28062;Q9UNM6;P0CG48;Q9BTE3;O75832;P61024;P40306;P28065;Q14997;P35251;P55036;Q13309;P25786;P25788;Q9Y248;Q9HCU8;O75419;P25205;P25787;O43913;Q06323;P49720;O00232;P60900;Q9UBD5;Q13416;P49005;Q13616;P49642;Q15910;O43242;Q99741;Q9BRT9;A5LHX3;P83369;P25789;O14519;Q6Y7W6;P30291;Q15054;P50613;P20618;Q14181;P63208;Q13200;Q8TAA3;P28070;Q14691;Q99460;Q9H211;P62979;Q9Y5N6;P46527;P28066;P38936;Q9UM11;O14818;P0CG47;P28072;P30304;P56282;Q13415;P28074;P27694;Q92530;P15927;P49721;P62987;P39748;P35244;Q9UL46;P24941;Q14566;O00233;P11802;P48556;Q16401;P33992;O00231;P51946;Q969L4;P51948;P24385;P12004;P06400}
- 322 Pathogen[ P03363] interacts with 40 human  
partners: {Q14691;Q13309;P27694;Q9BTE3;Q92530;P25205;P51946;Q15910;P35251;P61289;P49005;P24941;Q14181;P35244;P15927;P06400;Q9UM11;P33992;P83369;P30304;Q9HCU8;Q13416;Q13616;Q13415;Q99741;P61024;Q9H211;P62987;P24385;Q15054;Q969L4;O14519;P11802;Q9Y248;Q9UBD5;Q9Y5N6;Q9BRT9;P63208;O75419;O43913}
- 323 [Cluster 30]GO:0033979+P biological\_process [name] box H/ACA snoRNA metabolic process [def] "The chemical reactions and pathways involving box H/ACA type small nucleolar RNA." [GOC
- 324 Pathogen[ Q2Q067] interacts with 1 human partners: {Q14978}
- 325 Pathogen[ P0C214] interacts with 1 human partners: {Q14978}
- 326 Pathogen[ P03346] interacts with 1 human partners: {Q14978}
- 327 Pathogen[ Q85601] interacts with 1 human partners: {Q14978}
- 328 Pathogen[ P14079] interacts with 1 human partners: {Q14978}

329 Pathogen[ P03383] interacts with 1 human partners:{Q14978}  
330 Pathogen[ P03410] interacts with 1 human partners:{Q14978}  
331 Pathogen[ P14075] interacts with 1 human partners:{Q14978}  
332 Pathogen[ P0C206] interacts with 1 human partners:{Q14978}  
333 Pathogen[ P03363] interacts with 1 human partners:{Q14978}  
334 [Cluster 31]GO:0002829+P biological\_process [name] negative regulation of type 2  
immune response [def] "Any process that stops, prevents, or reduces the frequency, rate,  
or extent of a type 2 immune response." [GOC  
335 Pathogen[ Q2Q067] interacts with 2 human partners:{P41182;P42226}  
336 Pathogen[ P0C214] interacts with 2 human partners:{P42226;P41182}  
337 Pathogen[ P03346] interacts with 2 human partners:{P42226;P41182}  
338 Pathogen[ Q85601] interacts with 2 human partners:{P42226;P41182}  
339 Pathogen[ P14079] interacts with 3 human partners:{P42226;P41182;Q8IU54}  
340 Pathogen[ P03383] interacts with 1 human partners:{P42226}  
341 Pathogen[ P03410] interacts with 2 human partners:{P41182;P42226}  
342 Pathogen[ P14075] interacts with 1 human partners:{P42226}  
343 Pathogen[ P0C206] interacts with 2 human partners:{P41182;P42226}  
344 Pathogen[ P03363] interacts with 1 human partners:{P42226}  
345 [Cluster 32]GO:0032260+P biological\_process [name] DNA replication involved in S  
phase [def] "The process in which new strands of genomic DNA are synthesized, using  
parental DNA as a template for DNA-dependent DNA polymerases, contributing to  
progression through S phase of the cell cycle." [GOC  
346 Pathogen[ Q2Q067] interacts with 2 human partners:{Q13156;Q14493}  
347 Pathogen[ P0C214] interacts with 2 human partners:{Q13156;Q14493}  
348 Pathogen[ P03346] interacts with 2 human partners:{Q13156;Q14493}  
349 Pathogen[ Q85601] interacts with 2 human partners:{Q13156;Q14493}  
350 Pathogen[ P14079] interacts with 2 human partners:{Q13156;Q14493}  
351 Pathogen[ P03383] interacts with 2 human partners:{Q14493;Q13156}  
352 Pathogen[ P03410] interacts with 2 human partners:{Q14493;Q13156}  
353 Pathogen[ P14075] interacts with 2 human partners:{Q14493;Q13156}  
354 Pathogen[ P0C206] interacts with 2 human partners:{Q13156;Q14493}  
355 Pathogen[ P03363] interacts with 2 human partners:{Q13156;Q14493}  
356 [Cluster 33]GO:2000639+P biological\_process [name] negative regulation of  
SREBP-mediated signaling pathway [def] "Any process that stops, prevents or reduces  
the frequency, rate or extent of SREBP-mediated signaling pathway." [GOC  
357 Pathogen[ Q2Q067] interacts with 1 human partners:{Q969H0}  
358 Pathogen[ P0C214] interacts with 1 human partners:{Q969H0}  
359 Pathogen[ P03346] interacts with 1 human partners:{Q969H0}  
360 Pathogen[ Q85601] interacts with 1 human partners:{Q969H0}  
361 Pathogen[ P14079] interacts with 1 human partners:{Q969H0}  
362 Pathogen[ P03383] interacts with 1 human partners:{Q969H0}  
363 Pathogen[ P03410] interacts with 1 human partners:{Q969H0}  
364 Pathogen[ P14075] interacts with 1 human partners:{Q969H0}  
365 Pathogen[ P0C206] interacts with 1 human partners:{Q969H0}  
366 Pathogen[ P03363] interacts with 1 human partners:{Q969H0}  
367 [Cluster 34]GO:0007512+P biological\_process [name] adult heart development [def]  
"The process whose specific outcome is the progression of the adult heart over time,  
from its formation to the mature structure." [GOC  
368 Pathogen[ Q2Q067] interacts with 3 human partners:{Q14814;P51948;P12883}  
369 Pathogen[ P0C214] interacts with 5 human  
partners:{Q14814;P35580;P51948;P12883;P13533}  
370 Pathogen[ P03346] interacts with 3 human partners:{Q14814;Q9P2D1;P51948}  
371 Pathogen[ Q85601] interacts with 6 human  
partners:{P13533;Q9P2D1;Q14814;P51948;P12883;P35580}  
372 Pathogen[ P14079] interacts with 5 human  
partners:{Q9P2D1;P12883;Q14814;O15273;P51948}  
373 Pathogen[ P03383] interacts with 4 human partners:{P51948;Q14814;P12883;P35580}  
374 Pathogen[ P03410] interacts with 7 human  
partners:{Q14814;O15273;Q9P2D1;P12883;P51948;P35580;P13533}  
375 Pathogen[ P14075] interacts with 2 human partners:{Q14814;P51948}  
376 Pathogen[ P0C206] interacts with 6 human  
partners:{P13533;Q9P2D1;P12883;Q14814;P35580;P51948}  
377 Pathogen[ P03363] interacts with 1 human partners:{Q14814}  
378 [Cluster 35]GO:0010950+P biological\_process [name] positive regulation of  
endopeptidase activity [def] "Any process that increases the frequency, rate or extent  
of endopeptidase activity, the endohydrolysis of peptide bonds within proteins." [GOC  
379 Pathogen[ Q2Q067] interacts with 2 human partners:{P61289;Q16186}  
380 Pathogen[ P0C214] interacts with 1 human partners:{Q16186}  
381 Pathogen[ P03346] interacts with 2 human partners:{P61289;Q16186}  
382 Pathogen[ Q85601] interacts with 2 human partners:{P61289;Q16186}  
383 Pathogen[ P14079] interacts with 3 human partners:{O00487;Q16186;P61289}  
384 Pathogen[ P03383] interacts with 2 human partners:{P61289;Q16186}  
385 Pathogen[ P03410] interacts with 2 human partners:{Q16186;P61289}  
386 Pathogen[ P14075] interacts with 2 human partners:{Q16186;P61289}  
387 Pathogen[ P0C206] interacts with 2 human partners:{P61289;Q16186}  
388 Pathogen[ P03363] interacts with 2 human partners:{Q16186;P61289}

389 [Cluster 36]GO:2000096+P biological\_process [name] positive regulation of Wnt receptor signaling pathway, planar cell polarity pathway [def] "Any process that activates or increases the frequency, rate or extent of Wnt receptor signaling pathway, planar cell polarity pathway." [GOC

390 Pathogen[ Q2Q067] interacts with 1 human partners:{P42568}

391 Pathogen[ P0C214] interacts with 1 human partners:{P42568}

392 Pathogen[ P03346] interacts with 3 human partners:{Q969G9;Q9Y2G4;P42568}

393 Pathogen[ Q85601] interacts with 1 human partners:{P42568}

394 Pathogen[ P14079] interacts with 1 human partners:{P42568}

395 Pathogen[ P03383] interacts with 1 human partners:{P42568}

396 Pathogen[ P03410] interacts with 3 human partners:{Q9Y2G4;Q969G9;P42568}

397 Pathogen[ P14075] interacts with 1 human partners:{P42568}

398 Pathogen[ P0C206] interacts with 3 human partners:{Q9Y2G4;P42568;Q969G9}

399 Pathogen[ P03363] interacts with 3 human partners:{Q969G9;P42568;Q9Y2G4}

400 [Cluster 37]GO:0051106+P biological\_process [name] positive regulation of DNA ligation [def] "Any process that activates or increases the frequency, rate or extent of DNA ligation, the re-formation of a broken phosphodiester bond in the DNA backbone, carried out by DNA ligase." [GOC

401 Pathogen[ Q2Q067] interacts with 1 human partners:{Q06609}

402 Pathogen[ P0C214] interacts with 1 human partners:{Q06609}

403 Pathogen[ P03346] interacts with 1 human partners:{Q06609}

404 Pathogen[ Q85601] interacts with 1 human partners:{Q06609}

405 Pathogen[ P14079] interacts with 1 human partners:{Q06609}

406 Pathogen[ P03383] interacts with 1 human partners:{Q06609}

407 Pathogen[ P03410] interacts with 1 human partners:{Q06609}

408 Pathogen[ P14075] interacts with 1 human partners:{Q06609}

409 Pathogen[ P0C206] interacts with 1 human partners:{Q06609}

410 Pathogen[ P03363] interacts with 1 human partners:{Q06609}

411 [Cluster 38]GO:0006111+P biological\_process [name] regulation of gluconeogenesis [def] "Any process that modulates the frequency, rate or extent of gluconeogenesis, the formation of glucose from noncarbohydrate precursors, such as pyruvate, amino acids and glycerol." [GOC

412 Pathogen[ Q2Q067] interacts with 3 human partners:{Q14749;P09467;Q9BQE4}

413 Pathogen[ P0C214] interacts with 3 human partners:{P09467;Q14749;Q9BQE4}

414 Pathogen[ P03346] interacts with 2 human partners:{P09467;Q14749}

415 Pathogen[ Q85601] interacts with 3 human partners:{P09467;Q14749;Q9BQE4}

416 Pathogen[ P14079] interacts with 4 human partners:{Q9BQE4;Q14749;P09467;Q9NRP4}

417 Pathogen[ P03383] interacts with 3 human partners:{P09467;Q9BQE4;Q14749}

418 Pathogen[ P03410] interacts with 4 human partners:{Q14749;P09467;Q9BQE4;Q9NRP4}

419 Pathogen[ P14075] interacts with 3 human partners:{Q9BQE4;Q14749;P09467}

420 Pathogen[ P0C206] interacts with 3 human partners:{P09467;Q9BQE4;Q14749}

421 Pathogen[ P03363] interacts with 1 human partners:{Q14749}

422 [Cluster 39]GO:0008612+P biological\_process [name] peptidyl-lysine modification to hypusine [def] "The modification of peptidyl-lysine to form hypusine, N6-(4-amino-2-hydroxybutyl)-L-lysine." [GOC

423 Pathogen[ Q2Q067] interacts with 5 human partners:{P63241;Q9BU89;Q6IS14;P49366;Q9GZV4}

424 Pathogen[ P0C214] interacts with 5 human partners:{Q6IS14;Q9BU89;Q9GZV4;P63241;P49366}

425 Pathogen[ P03346] interacts with 5 human partners:{Q9GZV4;P63241;Q6IS14;P49366;Q9BU89}

426 Pathogen[ Q85601] interacts with 4 human partners:{Q9GZV4;P63241;Q9BU89;Q6IS14}

427 Pathogen[ P14079] interacts with 5 human partners:{Q6IS14;Q9BU89;P63241;Q9GZV4;P49366}

428 Pathogen[ P03383] interacts with 4 human partners:{Q9GZV4;P63241;P49366;Q9BU89}

429 Pathogen[ P03410] interacts with 5 human partners:{Q9BU89;P49366;P63241;Q9GZV4;Q6IS14}

430 Pathogen[ P14075] interacts with 4 human partners:{Q9GZV4;P63241;P49366;Q9BU89}

431 Pathogen[ P0C206] interacts with 5 human partners:{Q9GZV4;Q6IS14;P49366;P63241;Q9BU89}

432 Pathogen[ P03363] interacts with 4 human partners:{Q9GZV4;P49366;P63241;Q6IS14}

433 [Cluster 40]GO:0008285+P biological\_process [name] negative regulation of cell proliferation [def] "Any process that stops, prevents or reduces the rate or extent of cell proliferation." [GOC

434 Pathogen[ Q2Q067] interacts with 108 human partners:{Q9NNW5;Q13118;P23381;Q9BZE4;Q99583;Q93034;P42773;Q9H4X1;P56524;P06400;Q8WYH8;P14921;Q13485;Q9UI56;Q95997;Q99816;Q99741;Q6P1J9;Q9BQA1;Q9Y2Y9;Q95751;P41182;Q01664;P51531;Q00613;Q05516;O43639;Q96AV8;Q8IZP0;P50616;P06748;P15976;Q9UNL4;Q8N196;Q9NP11;P08107;Q14896;Q14457;P11473;O14907;P05413;Q8N726;P11831;P28069;Q86UL8;Q09028;P62324;Q9NRG4;P35548;Q99608;P49356;P40337;Q9Y6P5;Q92831;Q14106;P67870;P12755;P84022;Q92796;Q63ZY3;P31949;P10914;O00255;Q13127;P49848;P29474;Q13616;Q8WVJ9;O15164;Q9NTI5;Q9UF9;Q96BK5;Q72465;P38936;Q15796;P37198;Q13363;Q15583;Q13155;Q13619;Q86U86;Q3YBR2;P42771;P17096;Q12824;O14964;P58304;Q14582;Q92845;P35232;Q96IZ0;P46527;P15407;O43324;P49918;P32929;Q96EY1;Q13617;Q15797;Q9BT81;O14879;P49715;P42772;P78543;Q00534;Q96A56;O75691;O15297}

435 Pathogen[ P0C214] interacts with 105 human

- partners: {Q14457;P29474;Q9Y6P5;P02794;Q96BK5;Q13619;Q13617;Q9H4X1;O75691;Q00613;Q8IZP0;Q13363;Q12824;P14921;Q96IZ0;P78543;O14879;P23381;P15407;P06748;Q92796;Q7Z465;Q92560;P84022;P17096;P46527;P56524;O14907;P11831;Q9Y2Y9;Q9UNL4;O14964;P10914;Q93034;Q99608;Q8N726;P05413;Q9BT81;P38936;O43639;Q09028;P32929;Q00534;P37198;P49918;P49356;Q6P1J9;Q13485;P49848;O14896;P40337;P50616;Q15796;P42771;P62324;P41182;P07093;O43324;Q13616;P12755;Q13127;P28069;Q3YBR2;Q92845;P42773;Q9H4P4;Q99816;P05412;Q8WVJ9;O15297;Q92831;O15164;Q9NPI1;Q8N196;Q86U86;P31949;O95751;Q9UFF9;Q9UI56;Q8IYB7;Q95997;Q96A56;Q9NNW5;Q9BZE4;Q8WYH8;Q15797;P67870;P35232;P51531;Q14106;P08107;Q9NTI5;Q9NRG4;Q01664;Q99583;P06400;P35548;Q96EY1;Q05516;O00255;P42772;Q63ZY3;Q13155;Q99741;Q96AV8}
- 436 Pathogen[ P03346] interacts with 134 human  
partners: {P08107;Q06945;O75691;P23381;P05412;Q99828;Q9Y238;O60443;Q9H4X1;P52954;P11473;Q92560;P55273;Q13362;P06748;Q13616;P29474;O14901;Q9UNL4;P05413;Q9BZE4;O43639;Q8WYH8;Q00613;Q9BQA1;P35548;P11831;O95751;P06400;Q7Z465;Q8IZP0;Q15797;Q15583;Q96A56;P42772;Q15796;P56524;Q9H4P4;Q9NPI1;O43815;Q99816;P25686;P02794;Q14457;Q12824;Q96AV8;Q86U86;P58304;Q92831;P49918;P37198;P42771;P49715;P17096;O95997;Q93034;Q8IYB7;Q9NRG4;Q92796;P52756;Q13155;Q14582;P14921;P84022;Q96IZ0;Q16667;P49356;P15976;Q86UL8;O00255;P10914;Q9UPQ4;Q13118;P49848;O14879;O75569;Q09028;Q9C0C7;O43324;P50616;Q8WVJ9;Q3YBR2;Q96BK5;O15297;P51161;P32929;O14907;Q9NTI5;O14896;Q8N196;P98177;P50539;P42773;P15407;P41182;P40337;Q05516;Q92481;Q99608;Q63ZY3;O15151;Q13619;Q14106;P28069;Q99593;Q13363;Q9UI56;P35232;O14964;Q13485;Q00534;Q92845;P56545;P67870;P38936;Q9Y6P5;Q9UFF9;Q99583;P62324;P51531;Q8N726;P46527;Q99741;P78543;Q01664;O15164;Q96EY1;P31949;Q9Y2Y9;Q9BT81;Q6P1J9;Q13127;Q9NNW5;Q13617}
- 437 Pathogen[ Q85601] interacts with 119 human  
partners: {Q3YBR2;Q14457;Q96IZ0;Q8N196;Q99816;P11831;Q9BQA1;Q9H4X1;O14896;O43324;P11473;P08107;Q13127;P55273;P17096;P50539;P15976;O75691;P05413;P14921;Q9BZE4;O14879;O15151;Q6P1J9;P51161;P06400;Q7Z465;Q9Y2Y9;Q15797;Q13155;Q92560;P40337;P15407;Q86UL8;P28069;P42772;Q9Y6P5;Q9NY30;P62324;P23381;Q13616;O43815;Q9UNL4;Q15583;Q14106;Q13363;Q92831;O15164;Q9UFF9;O43639;Q99608;Q9NTI5;Q00613;P12755;Q8IYB7;P10914;Q9NNW5;P51531;Q8N726;Q14582;Q96BK5;P78543;Q9UPQ4;P49848;Q63ZY3;O15297;O14907;P35548;P05412;O00255;P42771;P06748;P49356;Q92796;O14964;Q13118;P58304;Q96A56;P42773;Q09028;O95751;P50616;P29474;Q99583;Q05516;P84022;Q9NPI1;P49715;Q8WYH8;P31949;P49918;P56524;Q92845;P35232;Q9NRG4;Q86U86;P67870;P38936;Q00534;P41182;Q9H4P4;Q8IZP0;P07093;P02794;Q12824;Q99741;Q13619;Q13485;Q01664;Q96EY1;Q96AV8;Q9BT81;O95997;Q93034;Q8WVJ9;Q15796;P46527;P32929;Q13617}
- 438 Pathogen[ P14079] interacts with 128 human  
partners: {Q96A56;Q13362;P13164;Q9NPI1;O15164;P23381;P78543;Q96DY7;P12755;Q8N196;O75072;Q9BT81;P62324;O43422;O75691;Q13118;Q9NRG4;O15297;Q9Y2Y9;O43597;O14896;P11473;Q8IVL6;Q9UI56;Q15583;P31949;P17096;O43815;Q9UNL4;P49788;Q86U86;Q8WVJ9;P58304;P51531;Q8N726;Q05516;Q14106;Q8IZP0;P15976;P35232;O75569;O14907;P49918;Q99828;P05413;Q15797;Q7Z465;Q99608;O14683;P55273;Q9NTI5;Q9BZE4;P28069;Q9Y6P5;Q99741;P40337;Q00613;Q99583;Q8IYB7;P41182;Q9Y238;Q9Y6U3;Q9BQA1;P49715;Q92560;P38936;P08107;P49848;Q93034;Q702N8;Q99445;Q9NY30;Q96IZ0;O43294;Q9UFF9;P49356;Q01664;P37198;Q9P2X7;P32929;P50539;Q8IU54;P06748;P02794;O95997;Q13617;Q86UL8;Q63ZY3;O43639;P15407;Q3YBR2;Q9NNW5;Q96BK5;P67870;P46527;Q96AV8;Q13155;O75204;P42773;Q12824;Q92796;Q13616;P05412;Q92845;Q6P1J9;P56524;Q13127;Q09028;Q99816;Q14457;P52756;P50616;P28360;O14901;Q14582;O15151;O14879;O60443;O00255;Q96EY1;Q8WYH8;O43324;Q12893;O95751;Q13619;P10914;P42771;Q14201}
- 439 Pathogen[ P03383] interacts with 89 human  
partners: {P08107;Q86U86;Q14457;O14879;Q09028;P02794;Q13616;P10914;Q92831;P11831;Q9BQA1;Q9H4X1;Q13485;Q6P1J9;Q96A56;P06748;P29474;P17096;P28069;Q12824;P62324;P40337;Q14106;P14921;Q8WVJ9;Q99608;Q7Z465;Q9NRG4;Q9Y2Y9;Q93034;Q96BK5;Q99816;Q9BZE4;Q9UNL4;Q9UFF9;Q8WYH8;Q15797;O75691;Q05516;O15297;Q00534;O43324;Q13155;P06400;Q01664;P11473;P78543;P84022;P42772;P23381;P35548;O14896;P46527;P49848;P15407;P51531;Q00613;O00255;P35232;P42771;O95751;Q9UI56;P50616;Q99583;P67870;Q13617;P49918;Q15796;P56524;Q63ZY3;O95997;Q9NPI1;O14907;Q92845;Q92796;P37198;Q8N196;Q3YBR2;Q9NTI5;Q96AV8;O14964;Q9NNW5;Q96EY1;Q13363;Q99741;Q13127;Q8N726;P05412}
- 440 Pathogen[ P03410] interacts with 131 human  
partners: {P84022;Q92831;Q00613;P28069;Q96DY7;O14901;P42771;Q9UI56;P11831;Q96AV8;P46527;Q9H4X1;Q8WYH8;P02794;Q12893;Q9Y2Y9;P51161;Q9UFF9;Q13155;Q8WVJ9;O43597;O15151;O14896;Q00534;P42772;P12755;Q8N726;Q9P2X7;Q702N8;Q86U86;P05413;P49356;Q9NY30;O43639;O95751;Q99608;P32929;P23381;Q9UPQ4;Q9UNL4;Q14457;Q7Z465;Q92845;P55273;Q99445;P25686;O43294;P17096;Q9BQA1;P31949;P06748;P06400;Q9Y6U3;O95997;O75569;P11473;Q99816;Q13127;Q15583;P35548;P29474;Q99828;Q9Y6P5;O15297;Q09028;P38936;P08107;P49848;P62324;P56524;Q92796;Q9NTI5;Q15797;P49788;O75204;O14907;Q13485;Q3YBR2;P10914;Q99583;Q96IZ0;Q14106;Q8N196;Q6P1J9;O60443;Q13118;O43324;P41182;Q8IZP0;P05412;Q8IYB7;O43422;P51531;P50539;P78543;Q13616;Q14201;Q01664;Q96A56;Q13619;O43815;Q13362;Q13617;Q86UL8;P49918;Q96BK5;P15407;O75691;Q14582;O14879;P67870;P35232;Q9Y238;Q12824;Q9BT81;Q63ZY3;O00255;Q15796;P42773;Q93034;Q96EY1;P15976;Q9BZE4;O14683;Q9NPI1;P40337;Q9NNW5;P14921;Q9NRG4;Q99741;P50616}
- 441 Pathogen[ P14075] interacts with 92 human  
partners: {Q14457;P28069;Q8N196;O15297;P29474;Q9H4X1;Q99608;Q13155;Q00613;Q63ZY3;P23381;Q9NPI1;P05412;Q93034;P62324;Q9BQA1;Q92831;P11831;Q92845;Q7Z465;Q96DY7;P35548;P17096;P56524;Q00534;P42771;O95997;Q15796;Q9P2X7;Q96IZ0;Q8WVJ9;P46527;Q3YBR2;Q96BK5;Q13485;P35232;O00255;Q6P1J9;O75691;Q9Y238;Q09028;O14964;P49918;Q01664;Q14106;Q86U86;P78543;P49848;P67870;P50616;P51531;P02794;P11473;P37198;O14907;P06748;Q92796;P14921;P06400;Q96AV8;Q12824;O14896;O14879;Q9Y6P5;Q9UNL4;Q9BZE4;O95751;Q9UFF9;P42772;P08107;Q13127;Q05516;Q99741;Q13363;P84022;Q99816;P15407;Q99583;O43324;Q8WYH8;Q13616;P10914;P403

37;Q9NNW5;Q9NTI5;Q13617;Q9NRG4;Q96A56;Q9UI56;Q96EY1;Q9Y2Y9;Q8N726}

442 Pathogen[ POC206] interacts with 133 human  
partners: {O14964;P84022;Q9UFF9;P62324;P31949;O43324;P10914;Q9C0C7;Q99828;Q9H4P4;Q9H4X1;Q96IZ0;Q13127;P49848;P14921;Q92845;Q9NPI1;Q9BQA1;Q8N726;P15407;Q9NY30;O43422;P51161;O43815;P02794;Q8WYH8;Q9Y2Y9;Q96AV8;P51531;P41182;Q05516;Q99583;Q00613;Q9NRG4;Q9P2X7;O00255;Q95997;P05412;O14879;Q8N196;Q14457;P42771;P49715;P42772;O15164;Q99816;Q12824;Q96BK5;Q13616;O95751;P15976;Q86U86;Q15796;Q99741;Q96A56;Q92831;Q9NNW5;Q8WVJ9;P12755;Q9BT81;P05413;O14907;P42773;Q9UPQ4;Q13619;O15151;Q13617;O60443;Q14106;Q8IZP0;Q9UI56;P35232;P50616;Q99445;P35548;P32929;P50539;P67870;P55273;P46527;Q14582;P38936;Q99608;P08107;O43294;Q12893;O14896;Q7Z465;O43597;Q13485;Q9NTI5;Q9BZE4;P17096;P29474;P11831;Q63ZY3;Q15797;Q01664;O75691;Q13362;Q13155;O14901;Q09028;Q9Y6P5;P06748;Q92796;Q93034;Q86UL8;P56524;P28069;Q13363;Q13118;O15297;Q3YBR2;Q8IYB7;Q9UK53;P49356;Q96EY1;O43639;P23381;Q6P1J9;Q92560;P11473;P58304;Q9UNL4;Q9Y238;P40337;Q15583;P78543;Q00534;P06400;Q96DY7;P49918}

443 Pathogen[ P03363] interacts with 119 human  
partners: {Q3YBR2;P49918;Q92845;O14901;O95751;Q8IZP0;P29474;O14907;O60443;Q9H4X1;O14896;P49848;Q14582;Q96IZ0;Q96BK5;Q13362;Q63ZY3;P50539;Q09028;Q92831;Q14457;Q16667;Q9BZE4;P31949;P56545;Q8N196;P78543;P58304;Q13617;P14921;P35548;O15151;O43422;Q15797;Q14201;Q99828;O43639;P51161;P06400;P40337;P23381;P50616;O75691;P06748;O14879;Q9UNL4;Q13127;Q9Y2Y9;P11473;Q13155;Q99608;Q9BQA1;Q00534;Q92560;Q13619;Q9C0C7;P11831;Q96A56;P28069;Q13616;P08107;Q9NRG4;P42772;Q6P1J9;Q8IYB7;P62324;P17096;Q99741;Q143815;Q9NPI1;P05413;Q15796;P84022;Q7Z465;Q86U86;P10914;Q14106;Q15583;Q9Y6P5;P15407;O14964;Q9H4P4;Q8IWX8;Q9UI56;Q13485;Q8N726;Q86UL8;P35232;P05412;Q9NTI5;Q96AV8;Q00613;Q99816;P67870;Q95997;Q93034;Q9UFF9;Q13363;P42773;Q92796;O15297;Q9Y238;P37198;P51531;Q96EY1;Q9BT81;Q05516;Q8WYH8;O43324;Q99583;Q01664;Q8WVJ9;P02794;Q12824;P42771;Q9NNW5;O75569;Q13118;P52756}

444 [Cluster 41]GO:0050680+P biological\_process [name] negative regulation of epithelial cell proliferation [def] "Any process that stops, prevents or reduces the rate or extent of epithelial cell proliferation." [GOC

445 Pathogen[ Q2Q067] interacts with 13 human  
partners: {Q9Y5V3;P06400;Q6P1J9;Q9BSI4;Q12959;P19013;Q13761;Q9H4B6;P46527;P49918;P23508;P42772;Q00534}

446 Pathogen[ POC214] interacts with 13 human  
partners: {Q13761;Q9Y5V3;Q9BSI4;P46527;Q00534;Q9H4B6;P49918;Q6P1J9;Q12959;P23508;P19013;P06400;P42772}

447 Pathogen[ P03346] interacts with 14 human  
partners: {Q9BSI4;O15522;P23508;P06400;P42772;P19013;P49918;Q13761;Q9Y5V3;Q00534;Q9H4B6;P46527;Q6P1J9;Q12959}

448 Pathogen[ Q85601] interacts with 12 human  
partners: {P23508;Q6P1J9;P06400;P19013;P42772;Q9Y5V3;Q12959;P49918;Q00534;Q9H4B6;P46527;Q13761}

449 Pathogen[ P14079] interacts with 9 human  
partners: {Q9BSI4;P49918;Q9Y5V3;P54826;P23508;Q9H4B6;P46527;Q13761;Q6P1J9}

450 Pathogen[ P03383] interacts with 12 human  
partners: {Q13761;Q6P1J9;P19013;Q00534;P06400;P42772;P46527;Q9BSI4;Q9Y5V3;P49918;P23508;Q9H4B6}

451 Pathogen[ P03410] interacts with 14 human  
partners: {P46527;Q00534;P42772;Q12959;P19013;P06400;Q9BSI4;P23508;Q6P1J9;P54826;Q9Y5V3;Q13761;P49918;Q9H4B6}

452 Pathogen[ P14075] interacts with 13 human  
partners: {Q9BSI4;Q00534;P46527;Q6P1J9;Q9H4B6;P49918;P06400;P23508;P42772;Q9Y5V3;P54826;P19013;Q13761}

453 Pathogen[ POC206] interacts with 14 human  
partners: {Q9Y5V3;Q9BSI4;P42772;P19013;Q9H4B6;P46527;P54826;Q12959;Q6P1J9;Q13761;P23508;Q00534;P06400;P49918}

454 Pathogen[ P03363] interacts with 13 human  
partners: {P49918;Q12959;Q9BSI4;P23508;P06400;Q00534;P42772;Q6P1J9;Q9H4B6;Q9Y5V3;P19013;Q13761;O15522}

455 [Cluster 42]GO:0070266+P biological\_process [name] necroptosis [def] "A necrotic cell death process that results from the activation of endogenous cellular processes, such as signaling involving death domain receptors and Toll-like receptors." [GOC

456 Pathogen[ Q2Q067] interacts with 1 human partners: {Q13490}

457 Pathogen[ POC214] interacts with 1 human partners: {Q13490}

458 Pathogen[ P03346] interacts with 2 human partners: {Q13489;Q13490}

459 Pathogen[ Q85601] interacts with 1 human partners: {Q13490}

460 Pathogen[ P14079] interacts with 1 human partners: {Q13490}

461 Pathogen[ P03383] interacts with 1 human partners: {Q13490}

462 Pathogen[ P03410] interacts with 1 human partners: {Q13490}

463 Pathogen[ P14075] interacts with 1 human partners: {Q13490}

464 Pathogen[ POC206] interacts with 2 human partners: {Q13489;Q13490}

465 Pathogen[ P03363] interacts with 2 human partners: {Q13490;Q13489}

466 [Cluster 43]GO:0006401+P biological\_process [name] RNA catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of RNA, ribonucleic acid, one of the two main type of nucleic acid, consisting of a long, unbranched macromolecule formed from ribonucleotides joined in 3',5'-phosphodiester linkage." [ISBN

467 Pathogen[ Q2Q067] interacts with 10 human

468 partners:{Q8TCS8;Q9NQT4;Q14103;O60930;Q12972;Q15024;Q13310;Q8TDP1;O75792;Q5TBB1}  
Pathogen[ POC214] interacts with 11 human  
partners:{Q13310;Q15024;P29728;Q5TBB1;O75792;Q14103;Q8TCS8;O60930;Q12972;Q8TDP1;Q9NQT4}

469 Pathogen[ P03346] interacts with 10 human  
partners:{O60930;Q5TBB1;Q15024;Q14103;Q8TCS8;Q13310;Q8TDP1;Q9NQT4;Q12972;O75792}

470 Pathogen[ Q85601] interacts with 10 human  
partners:{Q13310;Q14103;O75792;Q9NQT4;Q12972;Q8TCS8;Q15024;O60930;Q8TDP1;Q5TBB1}

471 Pathogen[ P14079] interacts with 12 human  
partners:{P29728;Q14103;Q15024;O75792;Q9NQT4;Q13310;Q12972;Q8TDP1;Q96AZ6;O60930;Q8TCS8;Q5TBB1}

472 Pathogen[ P03383] interacts with 10 human  
partners:{O75792;Q12972;Q8TCS8;Q9NQT4;Q14103;O60930;Q13310;Q8TDP1;Q5TBB1;Q15024}

473 Pathogen[ P03410] interacts with 12 human  
partners:{Q8TCS8;Q14103;P29728;O75792;Q8TDP1;O60930;Q15024;Q96AZ6;Q9NQT4;Q12972;Q5TBB1;Q13310}

474 Pathogen[ P14075] interacts with 10 human  
partners:{Q14103;O60930;Q5TBB1;Q9NQT4;Q13310;O75792;Q8TCS8;Q15024;Q12972;Q8TDP1}

475 Pathogen[ POC206] interacts with 11 human  
partners:{Q14103;Q8TCS8;P29728;O60930;Q13310;O75792;Q8TDP1;Q15024;Q5TBB1;Q12972;Q9NQT4}

476 Pathogen[ P03363] interacts with 9 human  
partners:{Q9NQT4;Q12972;Q5TBB1;Q15024;O75792;Q13310;Q14103;O60930;Q8TDP1}

477 [Cluster 44]GO:0042149+P biological\_process [name] cellular response to glucose starvation [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of deprivation of glucose." [GOC

478 Pathogen[ Q2Q067] interacts with 5 human  
partners:{O43159;Q16666;Q13794;P11166;Q9BQG0}

479 Pathogen[ POC214] interacts with 5 human  
partners:{O43159;Q9BQG0;Q16666;P11166;Q13794}

480 Pathogen[ P03346] interacts with 5 human  
partners:{Q16666;Q9BQG0;O43159;P11166;Q13794}

481 Pathogen[ Q85601] interacts with 5 human  
partners:{Q16666;Q9BQG0;O43159;P11166;Q13794}

482 Pathogen[ P14079] interacts with 5 human  
partners:{P11166;Q9BQG0;Q13794;O43159;Q16666}

483 Pathogen[ P03383] interacts with 4 human partners:{Q9BQG0;O43159;Q16666;Q13794}

484 Pathogen[ P03410] interacts with 5 human  
partners:{Q16666;P11166;Q13794;O43159;Q9BQG0}

485 Pathogen[ P14075] interacts with 4 human partners:{Q16666;Q9BQG0;Q13794;O43159}

486 Pathogen[ POC206] interacts with 5 human  
partners:{O43159;Q16666;P11166;Q9BQG0;Q13794}

487 Pathogen[ P03363] interacts with 5 human  
partners:{Q13794;Q9BQG0;Q16666;O43159;P11166}

488 [Cluster 45]GO:0042026+P biological\_process [name] protein refolding [def] "The process carried out by a cell that restores the biological activity of an unfolded or misfolded protein, using helper proteins such as chaperones." [GOC

489 Pathogen[ Q2Q067] interacts with 3 human partners:{P07900;P08107;P02489}

490 Pathogen[ POC214] interacts with 3 human partners:{P02489;P10809;P08107}

491 Pathogen[ P03346] interacts with 3 human partners:{P08107;P07900;P02489}

492 Pathogen[ Q85601] interacts with 3 human partners:{P02489;P08107;P07900}

493 Pathogen[ P14079] interacts with 3 human partners:{P02489;P08107;P07900}

494 Pathogen[ P03383] interacts with 2 human partners:{P08107;P07900}

495 Pathogen[ P03410] interacts with 3 human partners:{P07900;P02489;P08107}

496 Pathogen[ P14075] interacts with 2 human partners:{P07900;P08107}

497 Pathogen[ POC206] interacts with 3 human partners:{P07900;P08107;P02489}

498 Pathogen[ P03363] interacts with 3 human partners:{P07900;P08107;P02489}

499 [Cluster 46]GO:0002903+P biological\_process [name] negative regulation of B cell apoptosis [def] "Any process that stops, prevents, or reduces the frequency, rate, or extent of B cell apoptosis." [GOC

500 Pathogen[ Q2Q067] interacts with 3 human partners:{Q96JZ2;Q9Y3T9;P41182}

501 Pathogen[ POC214] interacts with 3 human partners:{Q9Y3T9;Q96JZ2;P41182}

502 Pathogen[ P03346] interacts with 3 human partners:{Q9Y3T9;P41182;Q96JZ2}

503 Pathogen[ Q85601] interacts with 3 human partners:{Q9Y3T9;Q96JZ2;P41182}

504 Pathogen[ P14079] interacts with 3 human partners:{Q9Y3T9;P41182;Q96JZ2}

505 Pathogen[ P03383] interacts with 1 human partners:{Q9Y3T9}

506 Pathogen[ P03410] interacts with 3 human partners:{Q9Y3T9;P41182;Q96JZ2}

507 Pathogen[ P14075] interacts with 1 human partners:{Q9Y3T9}

508 Pathogen[ POC206] interacts with 3 human partners:{P41182;Q96JZ2;Q9Y3T9}

509 Pathogen[ P03363] interacts with 2 human partners:{Q96JZ2;Q9Y3T9}

510 [Cluster 47]GO:0090286+P biological\_process [name] cytoskeletal anchoring at nuclear membrane [def] "The process in which cytoskeletal filaments are directly or indirectly linked to the nuclear membrane." [GOC

511 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9UH99;Q8NF91}

512 Pathogen[ POC214] interacts with 2 human partners:{Q9UH99;Q8NF91}

513 Pathogen[ P03346] interacts with 5 human partners:{Q8WXH0;Q9UH99;Q6ZMZ3;Q8NF91;O94901}

514 Pathogen[ Q85601] interacts with 3 human partners:{Q9UH99;Q8NF91;O94901}

515 Pathogen[ P14079] interacts with 5 human partners:{O94901;Q8WXH0;Q6ZMZ3;Q8NF91;Q9UH99}

516 Pathogen[ P03383] interacts with 1 human partners:{Q9UH99}

517 Pathogen[ P03410] interacts with 5 human partners:{Q6ZMZ3;Q9UH99;O94901;Q8WXH0;Q8NF91}

518 Pathogen[ P14075] interacts with 1 human partners:{Q9UH99}

519 Pathogen[ P0C206] interacts with 5 human partners:{Q9UH99;O94901;Q6ZMZ3;Q8NF91;Q8WXH0}

520 Pathogen[ P03363] interacts with 4 human partners:{Q8NF91;Q6ZMZ3;O94901;Q9UH99}

521 [Cluster 48]GO:0048240+P biological\_process [name] sperm capacitation [def] "A process required for sperm to reach fertilization competence. Sperm undergo an incompletely understood series of morphological and molecular maturational processes, termed capacitation, involving, among other processes, protein tyrosine phosphorylation and increased intracellular calcium." [GOC

522 Pathogen[ Q2Q067] interacts with 1 human partners:{043236}

523 Pathogen[ P0C214] interacts with 2 human partners:{P09622;043236}

524 Pathogen[ P03346] interacts with 1 human partners:{043236}

525 Pathogen[ Q85601] interacts with 1 human partners:{043236}

526 Pathogen[ P14079] interacts with 2 human partners:{075952;043236}

527 Pathogen[ P03383] interacts with 1 human partners:{043236}

528 Pathogen[ P03410] interacts with 2 human partners:{075952;043236}

529 Pathogen[ P14075] interacts with 1 human partners:{043236}

530 Pathogen[ P0C206] interacts with 2 human partners:{075952;043236}

531 Pathogen[ P03363] interacts with 1 human partners:{043236}

532 [Cluster 49]GO:0007632+P biological\_process [name] visual behavior [def] "The actions or reactions of an organism in response to a visual stimulus." [GOC

533 Pathogen[ Q2Q067] interacts with 2 human partners:{075161;Q9NP97}

534 Pathogen[ P0C214] interacts with 2 human partners:{075161;Q9NP97}

535 Pathogen[ P03346] interacts with 2 human partners:{075161;Q9NP97}

536 Pathogen[ Q85601] interacts with 2 human partners:{075161;Q9NP97}

537 Pathogen[ P14079] interacts with 3 human partners:{075161;Q9NP97;015259}

538 Pathogen[ P03383] interacts with 2 human partners:{Q9NP97;075161}

539 Pathogen[ P03410] interacts with 3 human partners:{Q9NP97;015259;075161}

540 Pathogen[ P14075] interacts with 2 human partners:{Q9NP97;075161}

541 Pathogen[ P0C206] interacts with 2 human partners:{Q9NP97;075161}

542 Pathogen[ P03363] interacts with 3 human partners:{075161;015259;Q9NP97}

543 [Cluster 50]GO:0051315+P biological\_process [name] attachment of spindle microtubules to kinetochore involved in mitotic sister chromatid segregation [def] "The cell cycle process in which spindle microtubules become physically associated with the proteins making up the kinetochore complex during mitosis. During mitosis, the kinetochores of sister chromosomes are situated facing opposite spindle poles and bipolar attachment of the sister chromosomes to the spindle occurs." [GOC

544 Pathogen[ Q2Q067] interacts with 2 human partners:{Q96EE3;Q96JM3}

545 Pathogen[ P0C214] interacts with 2 human partners:{Q96EE3;Q96JM3}

546 Pathogen[ P03346] interacts with 2 human partners:{Q96EE3;Q96JM3}

547 Pathogen[ Q85601] interacts with 2 human partners:{Q96JM3;Q96EE3}

548 Pathogen[ P14079] interacts with 2 human partners:{Q96JM3;Q96EE3}

549 Pathogen[ P03383] interacts with 1 human partners:{Q96EE3}

550 Pathogen[ P03410] interacts with 2 human partners:{Q96JM3;Q96EE3}

551 Pathogen[ P14075] interacts with 1 human partners:{Q96EE3}

552 Pathogen[ P0C206] interacts with 2 human partners:{Q96EE3;Q96JM3}

553 Pathogen[ P03363] interacts with 1 human partners:{Q96JM3}

554 [Cluster 51]GO:0021558+P biological\_process [name] trochlear nerve development [def] "The process whose specific outcome is the progression of the trochlear nerve over time, from its formation to the mature structure. The trochlear nerve is a motor nerve and is the only cranial nerve to exit the brain dorsally. The trochlear nerve innervates the superior oblique muscle." [GO\_REF

555 Pathogen[ Q2Q067] interacts with 1 human partners:{Q5TGS1}

556 Pathogen[ P0C214] interacts with 1 human partners:{Q5TGS1}

557 Pathogen[ P03346] interacts with 1 human partners:{Q5TGS1}

558 Pathogen[ Q85601] interacts with 1 human partners:{Q5TGS1}

559 Pathogen[ P14079] interacts with 1 human partners:{Q5TGS1}

560 Pathogen[ P03383] interacts with 1 human partners:{Q5TGS1}

561 Pathogen[ P03410] interacts with 1 human partners:{Q5TGS1}

562 Pathogen[ P14075] interacts with 1 human partners:{Q5TGS1}

563 Pathogen[ P0C206] interacts with 1 human partners:{Q5TGS1}

564 Pathogen[ P03363] interacts with 1 human partners:{Q5TGS1}

565 [Cluster 52]GO:0002262+P biological\_process [name] myeloid cell homeostasis [def] "The process of regulating the proliferation and elimination of myeloid cells such that the total number of myeloid cells within a whole or part of an organism is stable over time in the absence of an outside stimulus." [CL

566 Pathogen[ Q2Q067] interacts with 1 human partners:{Q00597}

567 Pathogen[ P0C214] interacts with 1 human partners:{Q00597}



568 Pathogen[ P03346] interacts with 1 human partners:{Q00597}  
569 Pathogen[ Q85601] interacts with 1 human partners:{Q00597}  
570 Pathogen[ P14079] interacts with 2 human partners:{Q92542;Q00597}  
571 Pathogen[ P03383] interacts with 1 human partners:{Q00597}  
572 Pathogen[ P03410] interacts with 2 human partners:{Q00597;Q92542}  
573 Pathogen[ P14075] interacts with 1 human partners:{Q00597}  
574 Pathogen[ P0C206] interacts with 2 human partners:{Q92542;Q00597}  
575 Pathogen[ P03363] interacts with 1 human partners:{Q00597}  
576 [Cluster 53]GO:0008284+P biological\_process [name] positive regulation of cell proliferation [def] "Any process that activates or increases the rate or extent of cell proliferation." [GOC  
577 Pathogen[ Q2Q067] interacts with 95 human partners:{Q68CZ2;O43365;P62701;Q9HBH1;P02538;P62633;P56524;Q9HBZ2;P04198;P24385;Q96LI5;Q13887;P27694;O95684;P14921;P01106;P46937;P46087;Q9BQA1;P18847;Q86VY4;O75794;P08151;Q04206;P30279;Q9ULV5;Q13547;Q9BWW4;O14686;P62244;Q53H80;P63241;Q15022;Q9H7S9;P20265;Q00577;Q96BF6;P28069;Q96GN5;Q08050;O95521;P27797;Q12959;O43745;Q9UHV2;Q5VWM6;Q5TA31;P49356;O60934;Q14978;Q5MJ70;O00716;Q12834;Q92769;Q9GZV5;Q9NQG5;Q9BUL8;Q5VWM5;P49366;Q5SWL7;Q8WUW1;Q13618;Q8WWQ0;P78395;Q56P03;Q9UM11;Q9BVW5;Q8WU39;Q6QNY1;Q9NR09;P31314;Q15714;P49459;P47928;P58304;Q9GZV4;Q9NP71;Q96RE7;P30305;Q9GZV4;P24941;P49006;Q9UBL3;P11802;P46527;O60810;P15407;O60809;Q9ULC4;Q00987;Q86X55;O15392;P55209;P46781;P40424}  
578 Pathogen[ P0C214] interacts with 103 human partners:{P40424;Q9BWW4;Q9HBH1;P49006;O43365;Q13887;Q969Z0;Q15022;Q5TYX0;Q13547;P02538;Q5SWL7;O95684;P46087;P14921;P31314;P15407;Q00987;Q9GZV4;A6NGN4;P11802;P46937;Q86Y37;Q9BVW5;P34897;P46527;P56524;Q9GZV5;Q04206;Q53H80;P49459;O43745;Q13618;Q9BUL8;P62701;Q00716;P78395;O60813;P24385;O75794;P63241;O60810;Q5VWM6;Q68CZ2;Q5VTA0;Q96BF6;Q9HBZ2;P20265;P49366;P47928;Q14978;Q00577;P49356;Q8WWQ0;Q9UQC2;P18847;Q92769;Q12834;Q9NQG5;P24941;Q15714;Q56P03;Q9NP71;P46781;P30305;P28069;Q8WUW1;Q12959;Q9UHV2;Q5TA31;P62244;Q9ULV5;P62633;O15392;P05412;P30279;P10909;P27797;Q96GN5;Q9NR09;Q86VY4;Q8WU39;Q9GZV4;Q5MJ70;O60884;P27694;P08151;Q86X55;Q9UM11;Q6QNY1;Q96LI5;Q5VWM5;Q5SWL8;O95521;Q5VXH4;Q96RE7;P43490;Q9ULC4;Q5VWM1;P01106;P04198;Q9H7S9;P18054}  
579 Pathogen[ P03346] interacts with 117 human partners:{Q06945;Q9HBH1;P05412;P02538;P46937;P24385;P18847;Q9NQG5;P30279;O15392;Q95684;Q9UM11;P62633;Q9GZV4;Q5MJ70;Q5VWM5;Q9BQA1;P07148;P27694;Q14774;Q00577;Q56P03;Q9GZV5;P24941;Q20634;Q13618;P56524;Q04206;P18054;Q53H80;Q9UQC2;Q08050;Q95630;P58304;Q9UBL3;P49459;Q96RE7;Q68CZ2;P63241;Q5TA31;A2RU54;O60810;Q86Z02;O60809;Q00987;Q12834;P30305;Q8WUW1;P11802;P20265;P01106;Q9BWW4;O43365;Q9NP71;P14921;Q14978;Q5VTA0;P49356;Q86VY4;P78395;Q6QNY1;Q15022;Q92769;Q8WU39;Q13547;Q8WWQ0;P46087;Q96GN5;Q01954;Q9GZV4;Q9H7S9;P49366;Q96BF6;P46781;O14686;Q86Y37;Q13887;Q9HBZ2;P15407;P27797;P04198;O60934;Q92481;P62701;O15151;P14317;P49006;P28069;Q9NR09;Q9UHV2;Q05215;Q86X55;P40424;P31314;Q5SWL8;O95521;Q9ULV5;Q5VWM1;P46527;Q13394;P55209;Q5VWM6;Q9BVW5;Q3SY56;Q9ULC4;Q9BUL8;Q96LI5;O00716;Q9Y586;Q15714;O43745;P47928;Q5SWL7;P62244;O75794;P08151;Q12959}  
580 Pathogen[ Q85601] interacts with 107 human partners:{P01106;Q9HBH1;Q14978;P02538;P08151;P62244;P46087;Q9BQA1;P62633;Q56P03;P24385;Q86X55;O95684;Q9UQC2;Q9GZV4;P14921;Q9ULV5;O15151;Q68CZ2;Q5VTA0;Q96BF6;Q9H7S9;Q9BUL8;O60813;P15407;P28069;Q969Z0;O60810;O75794;O14686;Q9GZV5;O60884;P62701;O15392;P27797;Q5SWL7;Q86Y37;P49006;P63241;Q5TA31;Q8WUW1;Q15714;Q9NP71;O43745;P27694;Q12834;Q9NQG5;P11802;Q01954;Q5VXH4;Q15022;Q53H80;Q86VY4;P30305;Q9UBL3;P40424;Q00577;Q96LI5;P18847;Q92769;Q9UHV2;Q04206;Q8WWQ0;P30279;Q9BWW4;P05412;P49356;Q9HBZ2;P49459;P58304;O95630;Q96GN5;Q9UM11;Q12959;P14317;P56524;Q96RE7;Q9NR09;P46937;Q08050;Q13547;P31314;Q5TYX0;Q13618;O43365;P04198;Q5VWM5;Q5SWL8;Q5VWM1;Q00987;P55209;Q5VWM6;Q9ULC4;P78395;Q6QNY1;P24941;O00716;Q13887;A6NGN4;P46781;Q9BVW5;P20265;P47928;P46527;Q5VT98;Q5MJ70;O60934}  
581 Pathogen[ P14079] interacts with 122 human partners:{P01215;P08151;Q14004;Q5TA31;Q53H80;Q5MJ70;Q8WU39;O60811;Q9ULC4;O43745;Q9GZV5;Q9UHV2;Q56P03;A3QJZ6;P20809;O95684;Q5VXH5;Q15714;P46781;Q9UBL3;P20265;Q08722;Q13618;P49006;Q9Y586;P01225;Q96LI5;P43490;Q5SWL7;P43307;O15392;P58304;Q13394;Q5VWM3;Q8WWQ0;P10909;Q5VT98;Q9BUL8;P34897;P46937;Q9GZV4;O60934;A6NGN4;Q9NR09;Q00987;Q9NS71;P28069;Q5TYX0;P54826;Q5VWM6;A6NMV5;P62244;P55209;O95521;Q92769;O00716;Q9UM11;Q5VWM5;O95522;Q9BQA1;Q5VTA0;Q9BWW4;Q9GZV4;Q9GZV5;O60809;Q68CZ2;Q9HBH1;P49459;Q96BF6;P46087;P04198;Q9GZV4;Q5VWM4;P49356;P04141;P13232;O43365;Q969Z0;P01106;Q00577;Q96RE7;P63241;Q5SWL8;O60813;P53602;P60602;P15407;P27694;Q96FC9;P46527;Q8WUW1;P78395;Q9HBZ2;P62633;P30305;Q9H7S9;A6NMC2;Q86VY4;Q5VXH4;P05412;O75794;Q86Y37;P56524;Q5VWM1;O15151;P62701;Q9ULV5;Q9UQC2;Q6QNY1;O60884;Q13145;Q9GZV4;Q9NP71;O60810;Q9NQG5;Q15022;Q96GN5;P47928;Q3SY56;Q14978;Q5TYW8;P49366;Q9BVW5}  
582 Pathogen[ P03383] interacts with 85 human partners:{Q9HBH1;Q14978;O75794;Q9BQA1;Q5TYX0;Q56P03;Q9UHV2;Q9BVW5;O00716;O60809;P28069;Q86VY4;O95684;P14921;P01106;Q96GN5;P40424;Q9GZV4;P27694;Q9BWW4;P18847;Q86X55;Q15714;P49006;Q9GZV4;O60810;O43365;P24385;P63241;P55209;Q15022;P11802;Q13618;Q9NP71;Q969Z0;P30279;Q9NQG5;P49366;Q5SWL7;Q12834;Q53H80;Q9ULV5;P46527;Q5TA31;P24941;Q92769;P78395;Q9UM11;P15407;P02538;P62244;O43745;Q8WU39;O60813;Q96RE7;Q9H7S9;Q5VXH4;P31314;Q13547;P46087;P62633;P04198;P56524;Q9BUL8;P46781;Q00577;Q8WWQ0;Q9NR09;Q04206;P49459;Q5VWM6;P47928;P62701;P01215;Q5VWM5;P20265;Q9ULC4;P46937;Q9GZV5;Q96LI5;O95521;P27797;Q6QNY1;Q5MJ70;P05412}  
583 Pathogen[ P03410] interacts with 131 human partners:{Q96LI5;Q9NQG5;O95684;Q04206;Q9UQC2;P28069;O15392;Q15714;Q96BF6;P04141;P536

02;Q9UHV2;P46527;O75794;Q96GN5;Q13394;Q5VVM4;Q5SWL7;Q5VXH5;Q6QNY1;P62244;P30279;Q5SWL8;O15151;Q9BWW4;P49006;P18847;P01106;Q9GZZ8;Q9HBH1;A6NGN4;Q5TYW8;P49356;O60811;Q5VWML;P46781;Q12959;Q9BUL8;Q9BVW5;Q14978;Q9Y586;P20809;Q13145;Q86X55;O60813;P49459;Q9BQA1;Q5TA31;Q9GZP9;O60809;P31314;P01215;A3QJZ6;Q5VVM6;P02538;Q95521;P62701;Q9NS71;Q00577;Q8WUW1;Q9GZV5;Q9HBZ2;P43490;Q9ULC4;Q9NR09;O00716;P24385;Q5VVM5;Q13618;O60810;P43307;Q9UM11;Q8WWQ0;Q92769;Q68CZ2;P78395;P24941;P60602;P11802;P56524;Q86VY4;P49366;Q5VT98;Q9H722;Q9NP71;P47928;Q86Y37;Q5VXH4;Q53H80;P46937;Q8WU39;P05412;Q12834;O60884;P54826;P46087;Q13547;A6NMC2;O95522;Q56P03;P55209;P63241;P27694;Q96FC9;Q96RE7;Q5MJ70;Q9H7S9;Q00987;O43745;Q9ULV5;P15407;Q9GZV4;P30305;P20265;A6NMV5;P62633;Q5VTA0;P40424;Q969Z0;P04198;Q5TYX0;O43365;P34897;Q5VVM3;O60934;Q15022;Q9GZN7;P14921;P10909;P13232;P27797}

584 Pathogen[ P14075] interacts with 93 human partners: {Q5VVM1;P28069;Q5SWL7;Q9HBH1;Q9GZV5;P46781;Q04206;Q9BUL8;Q969Z0;P24941;Q8WU39;Q8WWQ0;P40424;P49006;O95684;P05412;Q5MJ70;P11802;O60809;Q9BQA1;Q13618;Q9BWW4;P78395;P62244;Q56P03;Q9UM11;P30279;P49459;P18847;P62633;Q5VXH4;P56524;O60813;Q08050;Q15714;Q9NQG5;O95521;P20265;Q53H80;P47928;Q9GZV4;O00716;P04198;Q9UHV2;P63241;Q96LI5;O75794;O43365;Q13547;P01106;Q9BVW5;P49366;P46527;P55209;Q9NP71;Q9ULV5;P60602;Q96RE7;Q92769;Q86X55;Q6QNY1;P27797;Q5VVM5;Q5TYX0;Q96GN5;O43745;P46087;P14921;P27694;P20809;Q00577;Q9NR09;P46937;P31314;Q15022;Q9GZZ8;O60810;Q5VVM6;P24385;Q9NS71;Q5TA31;Q9GZN7;P62701;Q86VY4;P15407;Q9H7S9;P01215;Q5VTA0;P02538;Q9ULC4;P54826;Q12834;Q14978}

585 Pathogen[ POC206] interacts with 128 human partners: {P46937;Q13887;Q92769;Q86Y37;Q9GZV4;A3QJZ6;P31314;P27797;O75794;Q9NP71;P14921;Q3SY56;Q9BQA1;O95684;Q9GZN7;P15407;P02538;O43365;Q5VXH4;Q9UHV2;P78395;Q56P03;P62244;P14317;Q96LI5;P46781;P30279;Q86X55;O60934;P05412;O95630;Q13394;Q86VY4;Q9NQG5;Q6QNY1;Q5VVM5;Q13547;P34897;P30305;O60813;Q5VVM3;P43490;O00716;O60884;O14686;A6NGN4;Q5TYX0;Q9Y586;Q8WWQ0;P40424;Q5TA31;P62633;Q9GZV5;Q5TYW8;Q9H7S9;P49366;Q05215;A6NMV5;Q8WUW1;O15151;Q9ULV5;Q5VTA0;Q9NR09;Q13618;Q9BVW5;Q5SWL7;Q5VT98;Q9BWW4;P62701;P49459;Q04206;P49006;P01215;Q969Z0;Q9GZP9;P46527;P04198;P10909;Q9BUL8;Q9UM11;P20809;O15392;P55209;Q15022;Q8WU39;Q08050;P46087;P63241;O95521;P18847;Q9UBL3;Q5VVM1;O60810;O60809;P20265;Q5VVM6;P27694;Q96BF6;Q9ULC4;P01106;P56524;P28069;Q00987;Q9HBH1;P08151;P54826;P47928;P49356;Q5SWL8;Q53H80;Q9UQC2;P24941;O43745;Q12959;Q68CZ2;Q96RE7;Q96GN5;Q15714;P11802;P60602;Q12834;Q5MJ70;P58304;Q9HBZ2;Q14978;Q01954;P24385;Q00577}

586 Pathogen[ P03363] interacts with 96 human partners: {Q14978;Q9BUL8;Q12959;Q96RE7;Q9GZV4;P02538;O60809;P27694;P46087;Q8WWQ0;Q04206;P49459;P08151;Q9H7S9;O43365;P62633;Q15022;O75794;P30279;P18847;Q13618;O95684;Q56P03;P04198;Q9UBL3;Q96GN5;P58304;P14921;Q9HBZ2;O15151;P49366;P78395;P24941;P01106;Q96BF6;Q9UM11;O60813;Q9BQA1;Q08050;P46937;P20264;P28069;Q9NR09;Q9UHV2;Q9GZV5;Q5SWL7;P55209;Q9BVW5;P27797;Q86VY4;P46781;Q9NQG5;Q5MJ70;P20265;P31314;P47928;Q6QNY1;Q5VVM6;Q8WUW1;P15407;Q96LI5;Q13547;Q01954;P14317;Q68CZ2;P24385;P63241;Q9ULV5;Q5VXH4;Q5TA31;P62244;O60810;Q15714;P05412;P40424;A2RU54;Q8WU39;Q9ULC4;O43745;Q9BWW4;Q12834;Q9NP71;P11802;O00716;O95521;Q00577;P49006;Q53H80;Q9GZN7;Q5VVM5;Q05215;Q5TYX0;P62701;Q86X55;O14686;Q9UQC2}

587 [Cluster 54]GO:0000186+P biological\_process [name] activation of MAPKK activity [def] "The initiation of the activity of the inactive enzyme MAP kinase kinase by phosphorylation by a MAPKKK." [PMID

588 Pathogen[ Q2Q067] interacts with 5 human partners: {P46108;O95257;Q13233;P31946;O43318}

589 Pathogen[ POC214] interacts with 5 human partners: {O43318;O95257;Q13233;P46108;P31946}

590 Pathogen[ P03346] interacts with 5 human partners: {Q13233;P46108;P31946;O43318;O95257}

591 Pathogen[ Q85601] interacts with 5 human partners: {P31946;P46108;O95257;Q13233;O43318}

592 Pathogen[ P14079] interacts with 6 human partners: {Q9Y2Q5;P31946;Q8WU20;O75293;O95257;P46108}

593 Pathogen[ P03383] interacts with 4 human partners: {Q13233;P31946;O43318;O95257}

594 Pathogen[ P03410] interacts with 8 human partners: {Q9Y2Q5;O75293;Q13233;O43318;P46108;Q8WU20;O95257;P31946}

595 Pathogen[ P14075] interacts with 4 human partners: {O95257;O43318;P31946;Q13233}

596 Pathogen[ POC206] interacts with 7 human partners: {O75293;O43318;Q13233;P31946;O95257;Q8WU20;P46108}

597 Pathogen[ P03363] interacts with 5 human partners: {O95257;P31946;O43318;P46108;Q13233}

598 [Cluster 55]GO:0006085+P biological\_process [name] acetyl-CoA biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of acetyl-CoA, a derivative of coenzyme A in which the sulfhydryl group is acetylated." [GOC

599 Pathogen[ Q2Q067] interacts with 1 human partners: {P10515}

600 Pathogen[ POC214] interacts with 1 human partners: {P10515}

601 Pathogen[ P03346] interacts with 1 human partners: {P10515}

602 Pathogen[ Q85601] interacts with 1 human partners: {P10515}

603 Pathogen[ P14079] interacts with 2 human partners: {O95822;P10515}

604 Pathogen[ P03383] interacts with 1 human partners: {P10515}

605 Pathogen[ P03410] interacts with 2 human partners: {P10515;O95822}

606 Pathogen[ P14075] interacts with 1 human partners: {P10515}

607 Pathogen[ POC206] interacts with 1 human partners: {P10515}

608 Pathogen[ P03363] interacts with 1 human partners: {P10515}

609 [Cluster 56]GO:0007224+P biological\_process [name] smoothed signaling pathway [def] "The series of molecular signals generated as a consequence of activation of the transmembrane protein Smoothened." [GOC  
610 Pathogen[ Q2Q067] interacts with 3 human partners:{P08151;Q9BVV6;Q15468}  
611 Pathogen[ P0C214] interacts with 2 human partners:{Q15468;P08151}  
612 Pathogen[ P03346] interacts with 7 human partners:{Q86Z02;P78426;O95096;Q15019;Q15468;Q9BVV6;P08151}  
613 Pathogen[ Q85601] interacts with 1 human partners:{P08151}  
614 Pathogen[ P14079] interacts with 9 human partners:{P08151;Q96GX1;P57679;Q86UK5;Q9BVV6;Q9UPM9;Q15468;Q9Y366;Q9P2K1}  
615 Pathogen[ P03383] interacts with 2 human partners:{Q9BVV6;Q15468}  
616 Pathogen[ P03410] interacts with 7 human partners:{Q15468;Q9Y366;Q9BVV6;Q96GX1;Q9P2K1;Q9UPM9;Q86UK5}  
617 Pathogen[ P14075] interacts with 2 human partners:{Q9BVV6;Q15468}  
618 Pathogen[ P0C206] interacts with 6 human partners:{Q15468;Q15019;Q9UPM9;Q9BVV6;Q9P2K1;P08151}  
619 Pathogen[ P03363] interacts with 4 human partners:{Q15468;P08151;Q9P2K1;Q9BVV6}  
620 [Cluster 57]GO:0042256+P biological\_process [name] mature ribosome assembly [def] "The aggregation, arrangement and bonding together of the large and small ribosomal subunits into a functional ribosome." [GOC  
621 Pathogen[ Q2Q067] interacts with 2 human partners:{P56537;Q9Y3A5}  
622 Pathogen[ P0C214] interacts with 2 human partners:{Q9Y3A5;P56537}  
623 Pathogen[ P03346] interacts with 2 human partners:{P56537;Q9Y3A5}  
624 Pathogen[ Q85601] interacts with 2 human partners:{Q9Y3A5;P56537}  
625 Pathogen[ P14079] interacts with 2 human partners:{P56537;Q9Y3A5}  
626 Pathogen[ P03383] interacts with 2 human partners:{P56537;Q9Y3A5}  
627 Pathogen[ P03410] interacts with 2 human partners:{P56537;Q9Y3A5}  
628 Pathogen[ P14075] interacts with 2 human partners:{P56537;Q9Y3A5}  
629 Pathogen[ P0C206] interacts with 2 human partners:{P56537;Q9Y3A5}  
630 Pathogen[ P03363] interacts with 2 human partners:{Q9Y3A5;P56537}  
631 [Cluster 58]GO:0006944+P biological\_process [name] cellular membrane fusion [def] "The cellular process that joins two lipid bilayers to form a single membrane." [GOC  
632 Pathogen[ Q2Q067] interacts with 10 human partners:{Q9UL45;Q99747;Q9H267;O95721;Q8TAT6;P54920;O00161;Q9ULZ2;O75558;Q15276}  
633 Pathogen[ P0C214] interacts with 8 human partners:{Q99747;O95721;P54920;Q8TAT6;Q9UL45;Q9ULZ2;O75558;O00161}  
634 Pathogen[ P03346] interacts with 10 human partners:{Q9ULZ2;O00161;O95721;P54920;Q9UL45;Q8TAT6;O75558;Q9H267;Q99747;Q15276}  
635 Pathogen[ Q85601] interacts with 8 human partners:{P54920;Q9ULZ2;Q9H267;O75558;Q8TAT6;O00161;O95721;Q99747}  
636 Pathogen[ P14079] interacts with 12 human partners:{Q9H295;P47224;Q15276;Q99747;O75558;O95721;Q9ULZ2;Q9UL45;Q8TAT6;O14653;P54920;Q9H267}  
637 Pathogen[ P03383] interacts with 7 human partners:{P54920;Q99747;O75558;Q9ULZ2;Q8TAT6;O00161;Q15276}  
638 Pathogen[ P03410] interacts with 12 human partners:{Q9H267;Q9ULZ2;Q9UL45;P47224;O75558;O14653;O95721;Q8TAT6;O00161;Q99747;Q15276;P54920}  
639 Pathogen[ P14075] interacts with 7 human partners:{Q8TAT6;O75558;Q99747;P54920;O00161;Q9ULZ2;Q15276}  
640 Pathogen[ P0C206] interacts with 12 human partners:{Q9UL45;O14653;P54920;O95721;Q8TAT6;O75558;P47224;O00161;Q99747;Q9ULZ2;Q9H267;Q15276}  
641 Pathogen[ P03363] interacts with 9 human partners:{P54920;O75558;Q8TAT6;Q9ULZ2;O95721;Q9H267;O00161;Q99747;Q15276}  
642 [Cluster 59]GO:0008380+P biological\_process [name] RNA splicing [def] "The process of removing sections of the primary RNA transcript to remove sequences not present in the mature form of the RNA and joining the remaining sections to form the mature form of the RNA." [GOC  
643 Pathogen[ Q2Q067] interacts with 196 human partners:{Q9UNP9;Q66PJ3;O43290;Q13573;P30153;P33240;P52434;P83876;Q96FV9;Q8TA86;Q86U42;O15234;P07910;P62312;Q9Y333;Q8WUQ7;Q8N2M8;Q9NR56;P55769;Q9Y3F4;Q9H2H8;O95391;Q9H7N4;P52272;P61326;O75494;P14866;Q15459;Q13427;Q13148;O75940;Q9BWG6;Q12872;O43447;P67809;P55795;Q01130;P62318;Q15233;Q8WWY3;Q9UHX1;Q5VTL8;Q8N684;O95400;O43390;Q13435;P19388;Q96DI7;P52435;Q15696;O43172;Q9UK45;P38919;Q14103;O60506;O00566;Q9H6T0;P30876;P19387;O00148;Q9H307;P61218;Q92945;Q8IX12;P67775;Q8NAV1;Q13838;Q9ULR0;Q07955;Q9BWJ5;Q6I9Y2;Q9UDW3;Q9BZ17;Q13769;Q8NDT2;Q16629;O75400;O94906;P31943;P49756;Q9NQ55;Q10570;Q12996;Q9BV90;P62314;P08621;P11142;P61978;Q12972;P38159;P62487;Q9UHI6;P62304;P84103;Q8IYB3;Q05048;O94913;Q14498;Q9Y6Y0;Q86V81;Q8IWX8;Q96DF8;P51816;Q96IZ7;Q05519;P26368;O43251;Q6P2Q9;Q6NZY4;Q9UBB9;Q8WXD5;Q08211;P08579;P52597;P23246;P14678;Q9Y5S9;Q01081;O75533;Q8TEQ6;O15116;Q9P2I0;P57678;P13984;Q13243;P09661;O95232;Q15366;P62875;O95218;P24928;O43809;Q86X95;O95777;Q15029;Q8NI27;Q5BKZ1;P09012;Q09161;Q9P013;Q9HCG8;Q9UQ35;Q9BUJ2;Q7RTV0;Q9UNY4;O75934;Q99590;P52298;P35269;Q15427;Q8N8D1;Q9BQ65;P62316;O43395;Q9UKF6;Q9NY27;Q9NWX8;Q6IEG0;Q14683;P53803;Q15007;Q96MU7;O60508;Q9H0G5;P62306;Q9H840;Q9Y2W2;Q15637;P35637;Q02040;P22626;Q69YN4;Q8WVK2;P18583;Q16637;P11940;Q14331;P63162;P62308;Q9UMS4;O14893;Q99459;Q12874;Q8WYA6;Q00839;A7MD48;Q9HCS7;Q9Y4Z0;O60936;O43660;Q8N1

- 644 Pathogen[ P0C214] interacts with 202 human partners: {Q5BKZ1;Q12996;Q9BZI7;Q6NZY4;Q8N163;Q16637;Q9Y2W2;Q96FV9;P62312;Q15007;O15234;O15116;P26368;Q9H6T0;P62316;Q9HCS7;Q9ULR0;Q09161;Q8IX12;Q9BQ65;Q13573;Q14331;O43172;P35637;O94913;O75934;Q66PJ3;O00148;P38159;Q9UKF6;Q6IEG0;P30876;P30153;Q9NQ55;P53803;P84103;Q86V81;Q5VTL8;Q9UDW3;Q9Y5S9;P51003;Q13769;O60508;P35269;P26599;O95400;Q9NR56;Q9H0S4;P14678;Q9NY27;Q15029;P62306;Q969L4;P52435;Q69YN4;P57678;Q15233;Q15637;P67809;Q05048;Q6P2Q9;P23246;Q9BWJ5;Q8IWX8;Q15428;Q9H307;P61218;Q13427;O43395;P11940;Q10570;Q8WXD5;P62308;Q9Y4Z0;Q9UK45;P08579;Q8NAV1;O43390;Q15366;O95232;Q8N684;O94906;Q9Y4Y9;Q9UMS4;Q96IZ7;Q07955;Q9BWG6;Q9H2H8;P55795;Q9Y333;P52298;P52272;P62487;Q9Y3C6;Q8WVK2;P62314;P07910;Q8IYB3;O43809;Q9UHX1;P18583;Q15696;P08621;Q8N8D1;Q9Y6Y0;Q14103;P62310;P55769;Q99459;P61326;Q8TEQ6;P38919;Q9UNY4;Q96DF8;Q13243;Q15427;P83876;Q9P2I0;Q99590;P52597;Q12872;Q05519;Q7RTV0;P63162;P67775;Q9BUJ2;Q15459;Q9UHI6;Q9H0G5;P51816;P62318;Q8NI27;Q01081;O75533;Q96DI7;P33240;Q9Y3F4;O75940;P62875;Q96BP3;P13984;Q12874;O95777;O75494;Q9H840;Q15287;P24928;P31943;P62304;Q96I25;P09012;Q14683;O43447;Q9P013;O60506;Q9HCG8;O14893;P09661;Q9UQ35;O43290;P52434;Q08211;Q12972;Q8WYA6;O95218;Q8NDT2;Q13435;Q00839;Q9BV90;Q96MU7;Q92945;O00566;P19387;Q13148;P22626;P19388;Q8TA86;O43251;O95391;Q02040;Q9UNP9;Q86U42;Q9NWZ8;Q13838;Q9H7N4;Q15365;Q14498;Q86X95;O43660;O75400;Q9UBB9;P49756;Q14966;Q16629;Q8N2M8;P14866;Q5VZF2;O60936;Q6I9Y2;Q01130;Q8WWY3;P11142}
- 645 Pathogen[ P03346] interacts with 239 human partners: {Q9Y5S9;Q96FV9;O95400;Q9BZI7;Q15427;P51991;Q12874;Q86U42;O15234;Q96MU7;P61978;Q8TA86;Q9ULR0;Q96DF8;O43172;Q09161;Q8IX12;Q15366;P52434;O43290;Q9H2H8;Q08170;Q9NQ55;Q9BV90;Q8N163;Q8IYB3;Q96PU8;P09651;O43447;Q99633;Q9Y3C6;Q7RTV0;P14866;P62304;P83876;Q9UKF6;O95777;Q96I25;Q13148;O95391;Q9Y4Y9;P08579;O75400;P55795;Q15007;Q15637;Q9NY27;Q9UMS4;P0DJD3;Q14498;O60506;P23246;Q9H307;Q8WXD5;P53803;P38919;P07910;Q96BP3;Q8N684;P61218;P11142;O75940;P18583;A8MWD9;P08621;Q9NX01;P11940;Q13242;P13943;Q00839;Q13247;P67775;P26599;Q9BUJ2;Q92945;Q08211;Q13769;P52298;O43390;Q9HCS7;Q16629;P22626;O94906;Q9BUQ8;Q9Y333;Q07955;Q13427;Q9BWG6;O00566;A7MD48;Q69YN4;Q9P013;Q05048;Q8IX01;Q16637;P52756;P30153;Q14103;Q9BWF3;Q9BQ65;P62487;Q8WVK2;Q92879;Q9H0G5;P19388;P35637;Q96A72;P62318;Q9Y6Y0;Q86V81;O95232;O60508;A6NDE4;Q8NDT2;P13984;Q8WYA6;P51003;P63162;Q96J01;Q5VTL8;O75934;O43660;O75643;P67809;Q9Y3F4;Q15428;Q9HCG8;Q8WUA1;Q13435;Q14683;P52435;Q9NWZ8;P62306;Q9UHI6;Q6NZY4;P49756;O94913;Q5VZF2;P26368;P55769;Q01081;O75533;Q66PJ3;P36954;Q8TEQ6;P61326;Q13838;Q9H6T0;P31942;Q9UNY4;O43251;Q15116;Q15459;Q9UDW3;Q9BWJ5;Q99590;O75554;Q9UNP9;Q14966;P42285;Q99459;Q8WWY3;O43809;Q6P2Q9;Q96DI7;Q14562;P09012;P84103;Q9UQ35;O95926;Q8IWX8;P62314;Q15233;P52272;Q15287;O60936;Q05519;P30876;P35269;Q01130;P14678;Q9H0S4;O95218;Q9BZJ0;P57678;Q9P2I0;Q8NAV1;O14893;P51513;P24928;Q02040;Q13573;Q9H7N4;Q13243;O00148;Q96IZ7;P38159;Q86X95;Q969L4;Q15029;P62316;Q9UHX1;Q8N2M8;Q15696;Q9Y2W2;Q32P51;Q8N8D1;Q8WUQ7;P52597;O75494;Q8NI27;Q12972;P62308;P62312;Q10570;Q12996;P51816;P62995;P62310;Q9UK45;Q15393;Q9NR56;P09661;Q15365;Q9BRX9;P33240;P62875;P19387;Q6I9Y2;Q9H840;Q15428;Q6IEG0;Q9NUK0;Q6N9Y9;Q5BKZ1;Q12872;Q9NWB1;Q14331;O43395}
- 646 Pathogen[ Q85601] interacts with 183 human partners: {Q9BZI7;Q15637;O15234;P49756;Q96MU7;P61978;P36954;Q9ULR0;Q9HCS7;Q9H2H8;Q9Y2W2;Q9H0S4;O43390;Q8IYB3;Q96BP3;Q7RTV0;Q13243;Q05048;P62304;Q13769;Q01130;Q9H307;O60506;Q14331;Q14103;Q14966;Q13148;O95391;O15116;Q05048;O75400;Q13573;Q15459;Q15007;Q9NY27;Q9UMS4;P61326;P22626;Q9UHX1;Q15287;O00148;P53803;O60936;P30153;Q8WYA6;P61218;Q5VTL8;O94913;Q8IX12;P08621;Q969L4;Q9P013;Q9NR56;Q8N8D1;Q86V81;Q9BUJ2;P55795;O75494;O75940;Q16629;O75934;Q9UK45;Q08211;P62316;O94906;Q07955;P55769;Q13427;Q9UBB9;Q9NQ55;Q09161;Q96DI7;P38919;P14678;Q96FV9;P62487;Q9H0G5;P19388;P35637;P11940;Q9Y6Y0;P62310;Q13435;P62314;P13984;Q8NDT2;P62306;O60508;Q05048;P35269;Q9Y4Z0;Q13838;Q14683;P52435;P62318;Q12972;Q15029;Q9NWZ8;Q8NAV1;P52597;P11142;Q9UHI6;Q6NZY4;Q9Y3C6;Q10570;P62312;Q9P2I0;P35269;Q8TA86;Q99459;Q01081;Q9UQ35;Q05519;Q9Y3F4;P67809;Q8NI27;O00566;Q9H7N4;Q9UDW3;Q99590;O43395;O43290;Q8WWY3;P67775;Q12872;P84103;Q15233;O95777;O95400;P14866;Q6P2Q9;Q96IZ7;P83876;O95218;O43447;Q8N163;Q00839;P18583;Q9NX01;P19387;Q92945;O14893;O43660;P24928;P62308;P52298;P30876;P38159;P52434;Q15696;P23246;P26368;Q9Y333;Q9HCG8;Q15365;P51003;Q66PJ3;Q5BKZ1;Q86U42;Q16637;Q8N2M8;P31943;O43172;Q14498;Q9UKF6;Q6I9Y2;Q9UNY4;P09661;P33240;Q15366;Q86X95;P62875;Q96DF8;Q12874;O43809;Q9Y5S9;Q5VZF2;Q9BWJ5;Q8WXD5;Q9H840;Q6IEG0;Q9Y4Y9}
- 647 Pathogen[ P14079] interacts with 202 human partners: {Q15637;O43809;P62875;Q96MU7;Q99459;Q9Y333;Q8N9Q2;Q8IX12;O43447;Q14004;Q15007;P57678;Q96I25;Q15287;Q9H0S4;P11142;O75934;Q8TEQ6;O75400;O94906;Q9Y2W2;O60508;Q8N163;P35637;Q5VZF2;Q99633;P19387;P35269;Q13148;O14893;Q9UKF6;Q14103;P67809;Q8N8D1;P62487;O75533;Q9UK45;Q10570;P52434;Q9UNY4;P52298;Q96DF8;Q12874;Q13243;Q9Y5S9;Q9BUJ2;Q6NZY4;O15514;P33240;P30876;P61218;Q9P013;P26368;P83876;Q14966;Q8NI27;Q6IEG0;P14866;P23246;P07910;Q13838;Q13573;Q9H840;Q9BWG6;Q9NY27;O94913;O15116;Q9Y3F4;P62312;Q15029;Q9BQ65;P53803;Q13427;Q6P2Q9;Q9UHI6;Q9NR56;P62314;Q14498;Q9HCS7;Q15427;Q08211;Q9UHX1;Q05048;Q9H307;Q00839;O43290;Q8WWY3;Q96FV9;Q15459;P62306;P14678;Q13769;O95400;Q8IYB3;Q9ULR0;Q9NWZ8;P16629;Q5BKZ1;P26599;P55795;O75940;Q9BWJ5;Q6I9Y2;P61326;O00566;Q16637;P19388;O95926;P49756;Q9UMS4;Q9H7N4;Q8TA86;Q9H6T0;A7MD48;Q66PJ3;Q02040;Q9BZI7;P11940;Q9Y4Z0;Q05519;Q7RTV0;P08621;Q9H2H8;Q92945;Q8N684;Q9UQ35;P52435;Q86V81;Q86U42;P96IZ7;O00148;P62308;O60506;Q15696;Q9UBB9;Q9Y6Y0;P09012;Q15366;O60936;P62304;Q15428;Q9NX01;P62316;P62310;Q07955;Q9H0G5;Q969L4;Q15365;Q8WUQ7;Q12972;Q8WVK2;Q8NAV1;P61978;P31943;Q9NUK0;Q01081;P13984;Q9HCG8;O95777;Q14331;O95232;P55769;P52597;O43390;Q8N2M8;Q12872;P24928;P30153;Q9NWB1;P51816;P51003;Q12996;P09661;O43172;P52756;O75494;Q15233;Q9UDW3;Q69YN4;Q14683;P62318;Q8WYA6;Q9Y4Y9;P18583;P36954;Q86X95;O43395;O95218;O15234;Q96BP3;Q8WXD5;Q8NDT2;O95391;Q09161;P22626;Q5VTL8;P84103;Q8IWX8;P38159;Q9NQ55;Q9P2I0;P63162}

- 648 Pathogen[ P03383] interacts with 185 human partners: {Q14683;Q13573;Q9NYV4;P53803;Q8N2M8;Q12872;Q07955;O15234;Q8TA86;P09661;Q15287;Q8NI27;Q05048;O75494;Q15366;P51003;Q969L4;Q9H0S4;O43390;P35269;P83876;Q02040;Q9H840;Q15459;P62318;Q96IZ7;Q9UNP9;O43290;P62312;Q5VTL8;P22626;Q8N163;P14866;Q15029;O43172;Q13769;Q96MU7;Q13838;Q9HCS7;Q9ULR0;Q9Y5S9;P55795;P62316;Q9BQ65;Q9NR56;O95218;Q96BP3;Q96FV9;Q9H2H8;Q12972;Q10570;P62304;P61326;Q9UHI6;Q8WXD5;Q6P2Q9;Q9NQ55;P38919;Q9Y4Y9;O95400;O60936;Q12874;P52434;P61218;P26368;Q13243;P63162;P30153;Q9P013;P67775;P61978;Q14331;P11940;P51816;P31943;O75400;Q99459;Q86V81;Q13435;Q9Y2W2;Q6NZY4;Q9H7N4;Q8NAV1;Q9UKF6;O94906;P38159;Q69YN4;Q09161;O43447;Q16629;Q66PJ3;P62487;Q8N684;O43395;O94913;Q8IYB3;Q16637;Q13427;O95777;A7MD48;Q9UHX1;Q9Y6Y0;P19387;P33240;P62314;P62310;P18583;P84103;Q92945;P13984;Q9H6T0;Q8TEQ6;O14893;P35637;P24928;Q01130;Q99590;Q14103;P49756;P14678;Q9Y333;Q01081;Q9Y3F4;P11142;Q15365;Q6IEG0;Q8IX12;Q8WVK2;O43809;P52298;Q8WUQ7;P09012;Q15007;Q9BWG6;Q9Y4Z0;Q9H307;O95232;Q9UK45;Q05519;Q9NY27;Q9BUJ2;P62875;Q8WY3;Q9UQ35;P52435;P57678;P55769;Q9P2I0;Q8NDT2;Q15233;Q96DF8;P62308;P23246;P19388;Q13148;Q9UBB9;O15116;Q9H0G5;Q86X95;P30876;Q9NWZ8;Q86U42;P67809;Q8N8D1;Q15637;Q9HCG8;Q8WYA6;Q00839;P08621;Q6I9Y2;Q9UNY4;P52597;O95391;Q75934;Q9UMS4;Q7RTV0;O00566;O75940;Q9BJ5;O00148;P62306;Q5BKZ1;Q9BZI7;Q14498;Q96DI7}
- 649 Pathogen[ P03410] interacts with 211 human partners: {Q8WUQ7;Q8N9Q2;P83876;Q13838;A8MWD9;Q92945;O75934;P23246;Q00839;Q9ULR0;Q15287;Q9BWJ5;Q9Y4Y9;Q9UDW3;Q8WXD5;Q01081;O95218;Q9UNY4;O14893;P26368;Q10570;P61326;P19387;Q14103;P62304;Q9NX01;O15234;Q8IX12;O60508;Q8WY3;Q15637;P36954;Q12996;Q15029;Q15696;P61978;Q9NWB1;Q05048;Q16629;Q9H840;P22626;Q15233;P11940;Q9BUJ2;Q8NI27;P62306;P24928;Q15287;Q6IEG0;P62310;Q6NZY4;O95777;Q15393;Q9Y5S9;Q96BP3;Q9H0G5;Q5VZF2;P35637;Q8TEQ6;Q15365;Q9Y333;O00148;Q9NR56;P55769;Q9Y6Y0;P11142;Q99633;P30876;P26599;Q96MU7;Q9P013;Q15366;Q9BWG6;P62308;P14678;P62316;Q9UBB9;Q9Y3F4;Q96IZ7;Q9H0S4;O15514;P14866;Q8NAV1;P09012;Q9B2I7;Q96FV9;Q9UQ35;P51003;Q9H7N4;Q13148;P43809;P08621;O43809;P67809;Q8WY3;Q9H2H8;Q9HCS7;O94906;Q9Y2W2;P07910;P08579;Q14966;P49756;O60936;Q05519;Q8WVK2;Q69YN4;Q99459;Q9NQ55;O75400;O43172;P52435;O94913;Q8N163;Q07955;P52597;P52298;Q16637;Q9P2I0;P31943;P62314;O43660;P33240;P53803;Q9UHX1;O43395;Q15428;Q14683;P09661;Q15459;O75533;Q8NDT2;Q86V81;P62875;P52272;P18583;P35269;Q13769;Q8IYB3;P38919;P61218;Q5BKZ1;Q86X95;O95400;O95232;Q01130;Q969L4;Q9Y4Z0;P30153;Q9UKF6;P52434;Q9H6T0;Q6I9Y2;Q7RTV0;P57678;Q9UMS4;P13984;Q9Y3C6;A7MD48;Q12972;Q8N684;Q9UNP9;P62487;Q99590;Q14498;O60506;Q12872;Q09161;P51816;Q96A72;Q96DF8;Q6P2Q9;O15116;P84103;P62312;Q9BQ65;Q86U42;Q9BV90;O43290;P55795;Q5VTL8;O75940;Q13243;Q12874;P67775;Q13427;P38159;Q8IWZ8;Q8TA86;Q9UHI6;P19388;O43447;Q08211;Q9UK45;P63162;Q8N8D1;Q96I25;Q9NY27;O00566;O95391;Q13573;Q13435;O43390;Q9H307;O75494;Q15007;Q14331;Q9HCG8;Q8N2M8;Q9NWZ8;Q02040;P62318}
- 650 Pathogen[ P14075] interacts with 184 human partners: {Q9H307;P51003;P22626;O00566;Q8TEQ6;Q15366;O15234;P62304;Q05519;P14866;Q9UK45;Q09161;P62316;O95232;P13984;Q86X95;P23246;P11142;Q9Y3F4;Q8WXD5;O43809;Q9P2I0;Q13573;P51816;Q14683;Q08621;Q5BKZ1;Q14103;Q86V81;Q13243;O43395;P49756;P30876;Q9H0S4;Q9UNY4;P61326;Q9UHX1;P57678;O95391;Q9Y4Z0;Q15459;P38159;Q92945;Q15428;Q96IZ7;P19388;O95400;Q01130;P61218;O95218;O95777;Q9UNP9;Q9H840;O43172;P31943;P63162;Q9H7N4;Q02040;P19387;P62306;O75494;Q8IX12;P62308;O43390;Q9UQ35;Q13148;Q66PJ3;O94906;Q9HCG8;Q12872;Q9ULR0;Q8N163;Q15029;O75400;P62312;Q16637;O75940;Q8NI27;Q99459;P62487;Q96DI7;P11940;Q15365;Q00839;Q9UHI6;Q9Y6Y0;Q6I9Y2;Q13435;Q9NY27;Q8N8D1;P62318;O15116;Q12874;P55769;Q9NR56;P33240;Q96DF8;Q6NZY4;Q9BUJ2;Q05048;Q69YN4;Q9BQ65;Q9UBB9;Q15637;Q15287;Q15007;P24928;Q96MU7;P35269;Q6P2Q9;P26368;Q01081;P67809;Q9UMS4;P09661;Q8IYB3;Q9BJ5;Q8TA86;Q9Y333;P61978;Q8NAV1;Q9NWZ8;Q15233;P67775;P30153;P09012;A7MD48;P14678;Q8NDT2;O43447;Q9HCS7;Q8WYA6;Q9Y5S9;Q99590;P35637;P83876;Q13427;O75934;P84103;Q8WVK2;Q9H0G5;P62875;Q12972;P52597;Q8N2M8;O60936;O14893;Q9H2H8;Q14331;P62314;P38919;Q8N684;Q8WUQ7;Q9Y4Y9;Q6IEG0;Q96FV9;O43290;Q9UKF6;Q13838;Q86U42;Q9NQ55;Q9NYV4;Q16629;P52434;Q9P013;Q5VTL8;P18583;Q10570;O00148;Q8WY3;Q969L4;Q14498;Q9BWG6;O94913;P62310;Q07955;P52298;P52435;P53803;Q9H6T0;Q9BZI7;Q7RTV0}
- 651 Pathogen[ P0C206] interacts with 204 human partners: {Q9BUJ2;Q6IEG0;Q9UNP9;Q15287;Q12872;Q9H0S4;Q9BV90;P67809;Q9UMS4;P33240;P62875;P83876;Q8NAV1;O00148;Q9Y3F4;Q9UKF6;Q14103;P14678;O60508;Q8TA86;O75934;Q9BZI7;Q15365;Q07955;P26368;P52298;Q9H840;P61326;Q01081;P36954;Q15696;Q09161;P18583;P55769;P30153;Q8NI27;Q8WXD5;Q14966;Q9UNY4;O94913;Q96BP3;P62304;Q05519;Q15233;Q8IYB3;Q08211;P09012;Q9H7N4;Q9BQ65;O95232;Q9NR56;O75533;P14866;Q8TEQ6;P61978;P63162;P19388;P61218;O75940;Q8N684;Q66PJ3;Q96PU8;P51816;Q9H307;Q15637;Q13243;Q12874;Q16629;Q86U42;P62314;P62316;O43390;O75494;P51003;P22626;Q02040;O43809;P67775;Q9H0G5;Q9UBB9;Q5BKZ1;Q9Y4Y9;Q9UHX1;Q8WUQ7;Q9P2I0;P13984;Q9Y4Z0;Q8WYA6;O43290;Q8N2M8;O95777;Q13769;Q9Y6Y0;Q9Y333;P23246;Q13435;Q9UQ35;P53803;Q9BWG6;O60936;Q96DF8;Q9UK45;O15514;P35269;Q86X95;Q96FV9;P19387;P38159;Q05048;Q15007;O60506;O95400;Q13573;Q9BWJ5;Q9Y3C6;Q13838;P52597;Q13427;Q8N8D1;Q14683;Q9P013;P35637;O43395;Q99590;Q96MU7;Q6P2Q9;P62318;Q6NZY4;P62318;Q7RTV0;O15234;O14893;Q8N9Q2;Q12996;Q9NY27;Q8WY3;P55795;Q8IWZ8;P52435;Q9NX01;P62306;Q9ULR0;P62487;Q13148;O43172;Q15366;Q99459;O43447;Q9HCG8;Q8IX12;Q9H6T0;Q96I27;O95218;P84103;O75400;O94906;A7MD48;Q69YN4;Q9UHI6;P24928;P62312;Q9H2H8;P49756;Q14331;Q92945;Q12972;Q96DI7;P09012;Q9NQ55;O43660;P38919;Q16637;P62308;O95391;Q9Y2W2;P08621;Q9NUK0;Q01130;P62310;Q00839;Q14498;Q9HCS7;Q9UDW3;Q8N163;Q15459;P11940;P11142;Q5VZF2;Q8WVK2;P31943;Q5VTL8;Q6I9Y2;P52434;O15116;Q15428;Q9Y5S9;Q86V81;O00566;Q9NWZ8;Q969L4;Q8NDT2;Q10570;Q15029;P30876;P57678}
- 652 Pathogen[ P03363] interacts with 247 human partners: {Q86X95;O95777;Q9Y6Y0;O75940;O95926;P62314;Q15233;O43395;A8MWD9;Q13151;Q9Y3F4;Q6NWX9;Q13595;Q9Y4Y9;P63162;Q9Y4Z0;Q15366;Q13427;Q96IZ7;Q9Y2W2;Q96J01;P23246;Q86U41;Q9P2I0;P38919;P0DJD3;Q96DF8;Q10570;O75643;P19388;Q12972;Q9NQ55;Q13148;Q12872;Q134

35;O95391;P13984;O95400;P52597;Q9NW13;Q9UHI6;Q6NZY4;P09012;Q96MU7;P62312;Q08170;O603  
06;O95232;Q9BV90;P30876;Q14331;Q8IX01;P51991;Q9HCS7;P14866;Q05048;Q15393;Q92879;Q9NW  
Z8;P35637;O75533;P19387;Q9H0G5;Q96BP3;P61218;P09651;Q9NX01;P08579;Q15459;Q9Y3C6;Q7RT  
V0;Q16629;Q96125;Q13769;P62318;Q8WYA6;Q8N8D1;Q9H307;Q8TA86;Q9BRX9;P24928;Q15427;P623  
04;Q01130;Q6P2Q9;P49756;P11940;Q86U42;Q9NR56;Q8WVY3;O14893;Q8NI27;Q9BWF3;Q32P51;Q96F  
V9;Q92620;Q9H0S4;O94913;O43447;Q9UNY4;Q96PU8;P61326;Q8IWX8;P62306;Q15116;Q05519;P352  
69;P52272;Q15029;Q15287;P57678;Q5BKZ1;Q8N684;O75400;Q9Y3B4;Q9BWJ5;Q9Y333;Q14562;P623  
16;Q13242;O95218;Q8WUQ7;Q8IYB3;Q9UDW3;O43809;P38159;P18583;P26368;Q9H7N4;Q92945;Q128  
74;Q9UPN6;P31943;O43172;Q9ULR0;Q66PJ3;P51003;O00148;Q15637;Q96LT9;Q14966;Q13243;Q8WX  
D5;Q86V81;P07910;Q9NWB1;Q8NAV1;Q8N2M8;Q8N163;O75934;P31942;O43290;Q13573;P52298;Q138  
38;Q9UHX1;Q02040;O00566;P08621;Q9H840;P22626;Q9BQ65;P83876;Q15365;P26599;P62487;O609  
36;Q14103;Q6I9Y2;P55795;Q9NY27;P62310;Q9UKM9;Q8IX12;Q07955;O43660;Q5VTL8;P51816;O605  
06;Q96E39;Q01081;Q5VZF2;Q96A72;Q9UK45;Q9BZI7;P61978;O94906;Q9HCG8;Q969L4;Q13247;Q154  
28;P55769;Q5S2Q8;Q8WVK2;A6NDE4;Q8TEQ6;Q00839;P62308;Q9P013;Q16637;Q9UKF6;P84103;Q9UM  
S4;Q14498;A7MD48;Q99633;P51513;O43390;P62995;P30153;P14678;Q16560;P53803;P52435;P096  
61;Q08211;P52434;Q99590;Q99459;Q9BUJ2;P33240;Q9UQ35;P67775;Q9H6T0;Q14683;Q15696;Q150  
07;Q9Y5S9;Q12996;Q9H2H8;Q9BWG6;O43251;Q9UNP9;P11142;Q9BZJ0;O75494;Q6IEG0;P67809;Q9NU  
K0;Q96DI7;Q69YN4;O60508;Q09161;P42285;O15234;Q8NDT2;P52756}

653 [Cluster 60]GO:0009953+P biological\_process [name] dorsal/ventral pattern formation  
[def] "The regionalization process in which the areas along the dorsal/ventral axis are  
established that will lead to differences in cell differentiation. The dorsal/ventral  
axis is defined by a line that runs orthogonal to both the anterior/posterior and  
left/right axes. The dorsal end is defined by the upper or back side of an organism. The  
ventral end is defined by the lower or front side of an organism." [GOC

654 Pathogen[ Q2Q067] interacts with 6 human  
partners:{O43364;P08151;O60663;Q15583;O75360;P14652}

655 Pathogen[ P0C214] interacts with 5 human  
partners:{P32243;O60663;O75360;Q9H469;P08151}

656 Pathogen[ P03346] interacts with 12 human  
partners:{Q9H469;Q05925;P31270;Q15583;P14652;O60663;O43364;Q9UBR4;A8MTQ0;O75360;P322  
43;P08151}

657 Pathogen[ Q85601] interacts with 7 human  
partners:{P08151;O75360;O60663;O43364;Q15583;Q9H469;P32243}

658 Pathogen[ P14079] interacts with 9 human  
partners:{P08151;O43364;Q15583;Q96BJ3;P54826;O60663;O75360;P32243;Q9Y366}

659 Pathogen[ P03383] interacts with 4 human partners:{P32243;O75360;O60663;Q96BJ3}

660 Pathogen[ P03410] interacts with 9 human  
partners:{Q9H469;Q9Y366;O60663;Q96BJ3;Q15583;O43364;P54826;P32243;O75360}

661 Pathogen[ P14075] interacts with 5 human  
partners:{O60663;Q96BJ3;O75360;P32243;P54826}

662 Pathogen[ P0C206] interacts with 11 human  
partners:{O75360;P14652;P32243;Q96BJ3;O43364;Q9UBR4;O60663;P08151;P54826;Q9H469;Q155  
83}

663 Pathogen[ P03363] interacts with 10 human  
partners:{O75360;P08151;A8MTQ0;O60663;P32243;P14652;Q05925;Q15583;O43364;Q9H469}

664 [Cluster 61]GO:0070734+P biological\_process [name] histone H3-K27 methylation  
[def] "The modification of histone H3 by addition of a methyl group to lysine at  
position 27 of the histone." [GOC

665 Pathogen[ Q2Q067] interacts with 2 human partners:{Q15910;Q92800}

666 Pathogen[ P0C214] interacts with 2 human partners:{Q15910;Q92800}

667 Pathogen[ P03346] interacts with 2 human partners:{Q92800;Q15910}

668 Pathogen[ Q85601] interacts with 2 human partners:{Q15910;Q92800}

669 Pathogen[ P14079] interacts with 2 human partners:{Q92800;Q15910}

670 Pathogen[ P03383] interacts with 2 human partners:{Q15910;Q92800}

671 Pathogen[ P03410] interacts with 2 human partners:{Q92800;Q15910}

672 Pathogen[ P14075] interacts with 2 human partners:{Q15910;Q92800}

673 Pathogen[ P0C206] interacts with 2 human partners:{Q92800;Q15910}

674 Pathogen[ P03363] interacts with 2 human partners:{Q15910;Q92800}

675 [Cluster 62]GO:0045839+P biological\_process [name] negative regulation of mitosis  
[def] "Any process that stops, prevents or reduces the rate or extent of mitosis.  
Mitosis is the division of the eukaryotic cell nucleus to produce two daughter nuclei  
that, usually, contain the identical chromosome complement to their mother." [GOC

676 Pathogen[ Q2Q067] interacts with 2 human partners:{O14757;Q9NWT8}

677 Pathogen[ P0C214] interacts with 2 human partners:{Q9NWT8;O14757}

678 Pathogen[ P03346] interacts with 2 human partners:{O14757;Q9NWT8}

679 Pathogen[ Q85601] interacts with 2 human partners:{Q9NWT8;O14757}

680 Pathogen[ P14079] interacts with 1 human partners:{Q9NWT8}

681 Pathogen[ P03383] interacts with 2 human partners:{O14757;Q9NWT8}

682 Pathogen[ P03410] interacts with 2 human partners:{Q9NWT8;O14757}

683 Pathogen[ P14075] interacts with 2 human partners:{Q9NWT8;O14757}

684 Pathogen[ P0C206] interacts with 1 human partners:{Q9NWT8}

685 Pathogen[ P03363] interacts with 2 human partners:{Q9NWT8;O14757}

686 [Cluster 63]GO:0072362+P biological\_process [name] regulation of glycolysis by  
negative regulation of transcription from RNA polymerase II promoter [def] "Any  
process that modulates the frequency, rate or extent of glycolysis by stopping,  
preventing, or reducing the frequency, rate or extent of transcription from an RNA

polymerase II promoter." [GOC  
687 Pathogen[ Q2Q067] interacts with 1 human partners:{075376}  
688 Pathogen[ POC214] interacts with 1 human partners:{075376}  
689 Pathogen[ P03346] interacts with 1 human partners:{075376}  
690 Pathogen[ Q85601] interacts with 1 human partners:{075376}  
691 Pathogen[ P14079] interacts with 1 human partners:{075376}  
692 Pathogen[ P03383] interacts with 1 human partners:{075376}  
693 Pathogen[ P03410] interacts with 1 human partners:{075376}  
694 Pathogen[ P14075] interacts with 1 human partners:{075376}  
695 Pathogen[ POC206] interacts with 1 human partners:{075376}  
696 Pathogen[ P03363] interacts with 1 human partners:{075376}  
697 [Cluster 64]GO:0038032+P biological\_process [name] termination of G-protein coupled  
receptor signaling pathway [def] "The signaling process in which G-protein coupled  
receptor signaling is brought to an end. For example, through the action of  
GTPase-activating proteins (GAPs) that act to accelerate hydrolysis of GTP to GDP on  
G-alpha proteins, thereby terminating the transduced signal." [GOC  
698 Pathogen[ Q2Q067] interacts with 2 human partners:{P41220;P35579}  
699 Pathogen[ POC214] interacts with 1 human partners:{P41220}  
700 Pathogen[ P03346] interacts with 2 human partners:{P35579;P41220}  
701 Pathogen[ Q85601] interacts with 2 human partners:{P41220;P35579}  
702 Pathogen[ P14079] interacts with 3 human partners:{P35579;P41220;Q9H3E2}  
703 Pathogen[ P03383] interacts with 2 human partners:{P41220;P35579}  
704 Pathogen[ P03410] interacts with 3 human partners:{P41220;Q9H3E2;P35579}  
705 Pathogen[ P14075] interacts with 2 human partners:{P41220;P35579}  
706 Pathogen[ POC206] interacts with 3 human partners:{Q9H3E2;P35579;P41220}  
707 Pathogen[ P03363] interacts with 2 human partners:{P35579;P41220}  
708 [Cluster 65]GO:0034127+P biological\_process [name] regulation of MyD88-independent  
toll-like receptor signaling pathway [def] "Any process that modulates the frequency,  
rate, or extent of MyD88-independent toll-like receptor signaling pathway." [GOC  
709 Pathogen[ Q2Q067] interacts with 1 human partners:{Q92985}  
710 Pathogen[ POC214] interacts with 1 human partners:{Q92985}  
711 Pathogen[ P03346] interacts with 1 human partners:{Q92985}  
712 Pathogen[ Q85601] interacts with 1 human partners:{Q92985}  
713 Pathogen[ P14079] interacts with 1 human partners:{Q92985}  
714 Pathogen[ P03383] interacts with 1 human partners:{Q92985}  
715 Pathogen[ P03410] interacts with 1 human partners:{Q92985}  
716 Pathogen[ P14075] interacts with 1 human partners:{Q92985}  
717 Pathogen[ POC206] interacts with 1 human partners:{Q92985}  
718 Pathogen[ P03363] interacts with 1 human partners:{Q92985}  
719 [Cluster 66]GO:0009582+P biological\_process [name] detection of abiotic stimulus  
[def] "The series of events in which an (non-living) abiotic stimulus is received by a  
cell and converted into a molecular signal." [GOC  
720 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UN51}  
721 Pathogen[ POC214] interacts with 1 human partners:{Q9UN51}  
722 Pathogen[ P03346] interacts with 1 human partners:{Q9UN51}  
723 Pathogen[ Q85601] interacts with 1 human partners:{Q9UN51}  
724 Pathogen[ P14079] interacts with 1 human partners:{Q9UN51}  
725 Pathogen[ P03383] interacts with 1 human partners:{Q9UN51}  
726 Pathogen[ P03410] interacts with 1 human partners:{Q9UN51}  
727 Pathogen[ P14075] interacts with 1 human partners:{Q9UN51}  
728 Pathogen[ POC206] interacts with 1 human partners:{Q9UN51}  
729 Pathogen[ P03363] interacts with 1 human partners:{Q9UN51}  
730 [Cluster 67]GO:0051602+P biological\_process [name] response to electrical stimulus  
[def] "Any process that results in a change in state or activity of a cell or an  
organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as  
a result of an electrical stimulus." [GOC  
731 Pathogen[ Q2Q067] interacts with 4 human partners:{Q16656;Q9NRI5;P17861;P78543}  
732 Pathogen[ POC214] interacts with 4 human partners:{Q9NRI5;P78543;Q16656;P17861}  
733 Pathogen[ P03346] interacts with 4 human partners:{Q9NRI5;Q16656;P17861;P78543}  
734 Pathogen[ Q85601] interacts with 4 human partners:{Q16656;P78543;Q9NRI5;P17861}  
735 Pathogen[ P14079] interacts with 5 human  
partners:{P78543;P24588;Q16656;P00395;Q9NRI5}  
736 Pathogen[ P03383] interacts with 4 human partners:{Q16656;Q9NRI5;P17861;P78543}  
737 Pathogen[ P03410] interacts with 5 human  
partners:{P17861;P78543;Q9NRI5;Q16656;P24588}  
738 Pathogen[ P14075] interacts with 4 human partners:{Q16656;P17861;Q9NRI5;P78543}  
739 Pathogen[ POC206] interacts with 4 human partners:{P17861;Q16656;Q9NRI5;P78543}  
740 Pathogen[ P03363] interacts with 4 human partners:{P78543;P17861;Q16656;Q9NRI5}  
741 [Cluster 68]GO:0001309+P biological\_process [name] age-dependent telomere shortening  
[def] "Progressive reduction in length of the telomeres, the termini of eukaryotic  
chromosomes, that occurs as part of the cellular aging process." [GOC  
742 Pathogen[ Q2Q067] interacts with 2 human partners:{Q15554;P54274}  
743 Pathogen[ POC214] interacts with 2 human partners:{Q15554;P54274}  
744 Pathogen[ P03346] interacts with 2 human partners:{Q15554;P54274}  
745 Pathogen[ Q85601] interacts with 2 human partners:{Q15554;P54274}  
746 Pathogen[ P14079] interacts with 2 human partners:{P54274;Q15554}

747 Pathogen[ P03383] interacts with 2 human partners:{Q15554;P54274}

748 Pathogen[ P03410] interacts with 2 human partners:{Q15554;P54274}

749 Pathogen[ P14075] interacts with 2 human partners:{Q15554;P54274}

750 Pathogen[ P0C206] interacts with 2 human partners:{Q15554;P54274}

751 Pathogen[ P03363] interacts with 2 human partners:{Q15554;P54274}

752 [Cluster 69]GO:0070373+P biological\_process [name] negative regulation of ERK1 and ERK2 cascade [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of signal transduction mediated by the ERK1 and ERK2 cascade." [GOC

753 Pathogen[ Q2Q067] interacts with 3 human partners:{Q15025;Q9UN36;Q13526}

754 Pathogen[ P0C214] interacts with 3 human partners:{Q13526;Q15025;Q9UN36}

755 Pathogen[ P03346] interacts with 3 human partners:{Q13526;Q15025;Q9UN36}

756 Pathogen[ Q85601] interacts with 3 human partners:{Q9UN36;Q13526;Q15025}

757 Pathogen[ P14079] interacts with 4 human partners:{O43597;Q15025;Q13526;Q9UN36}

758 Pathogen[ P03383] interacts with 3 human partners:{Q9UN36;Q15025;Q13526}

759 Pathogen[ P03410] interacts with 4 human partners:{O43597;Q13526;Q15025;Q9UN36}

760 Pathogen[ P14075] interacts with 3 human partners:{Q13526;Q15025;Q9UN36}

761 Pathogen[ P0C206] interacts with 4 human partners:{Q13526;Q15025;O43597;Q9UN36}

762 Pathogen[ P03363] interacts with 3 human partners:{Q9UN36;Q13526;Q15025}

763 [Cluster 70]GO:0009052+P biological\_process [name] pentose-phosphate shunt, non-oxidative branch [def] "The branch of the pentose-phosphate shunt which does not involve oxidation reactions. It comprises a series of sugar phosphate interconversions, starting with ribulose 5-P and producing fructose 6-P and glyceraldehyde 3-P." [ISBN

764 Pathogen[ Q2Q067] interacts with 2 human partners:{P37837;P49247}

765 Pathogen[ P0C214] interacts with 3 human partners:{P29401;P37837;P49247}

766 Pathogen[ P03346] interacts with 2 human partners:{P49247;P37837}

767 Pathogen[ Q85601] interacts with 2 human partners:{P37837;P49247}

768 Pathogen[ P14079] interacts with 3 human partners:{P49247;P29401;P37837}

769 Pathogen[ P03383] interacts with 2 human partners:{P37837;P49247}

770 Pathogen[ P03410] interacts with 2 human partners:{P37837;P49247}

771 Pathogen[ P14075] interacts with 2 human partners:{P49247;P37837}

772 Pathogen[ P0C206] interacts with 3 human partners:{P49247;P37837;P29401}

773 Pathogen[ P03363] interacts with 1 human partners:{P37837}

774 [Cluster 71]GO:0051153+P biological\_process [name] regulation of striated muscle cell differentiation [def] "Any process that modulates the frequency, rate or extent of striated muscle cell differentiation." [CL

775 Pathogen[ Q2Q067] interacts with 3 human partners:{P56524;Q9UKV0;Q9UQL6}

776 Pathogen[ P0C214] interacts with 3 human partners:{P56524;Q9UKV0;Q9UQL6}

777 Pathogen[ P03346] interacts with 3 human partners:{P56524;Q9UKV0;Q9UQL6}

778 Pathogen[ Q85601] interacts with 3 human partners:{Q9UKV0;Q9UQL6;P56524}

779 Pathogen[ P14079] interacts with 3 human partners:{Q9UQL6;Q9UKV0;P56524}

780 Pathogen[ P03383] interacts with 3 human partners:{Q9UQL6;Q9UKV0;P56524}

781 Pathogen[ P03410] interacts with 3 human partners:{Q9UKV0;Q9UQL6;P56524}

782 Pathogen[ P14075] interacts with 3 human partners:{P56524;Q9UKV0;Q9UQL6}

783 Pathogen[ P0C206] interacts with 3 human partners:{Q9UKV0;P56524;Q9UQL6}

784 Pathogen[ P03363] interacts with 2 human partners:{Q9UQL6;Q9UKV0}

785 [Cluster 72]GO:0019852+P biological\_process [name] L-ascorbic acid metabolic process [def] "The chemical reactions and pathways involving L-ascorbic acid, (2R)-2-[(1S)-1,2-dihydroxyethyl]-4-hydroxy-5-oxo-2,5-dihydrofuran-3-olate\_ L-ascorbic acid is vitamin C and has co-factor and anti-oxidant activities in many species." [CHEBI

786 Pathogen[ Q2Q067] interacts with 1 human partners:{P11166}

787 Pathogen[ P0C214] interacts with 1 human partners:{P11166}

788 Pathogen[ P03346] interacts with 1 human partners:{P11166}

789 Pathogen[ Q85601] interacts with 1 human partners:{P11166}

790 Pathogen[ P14079] interacts with 1 human partners:{P11166}

791 Pathogen[ P03383] interacts with 1 human partners:{P11169}

792 Pathogen[ P03410] interacts with 1 human partners:{P11166}

793 Pathogen[ P14075] interacts with 1 human partners:{P11169}

794 Pathogen[ P0C206] interacts with 1 human partners:{P11166}

795 Pathogen[ P03363] interacts with 1 human partners:{P11166}

796 [Cluster 73]GO:0071679+P biological\_process [name] commissural neuron axon guidance [def] "The process in which the migration of an axon growth cone of a commissural neuron is directed to its target in the brain in response to a combination of attractive and repulsive cues." [GOC

797 Pathogen[ Q2Q067] interacts with 1 human partners:{000712}

798 Pathogen[ P0C214] interacts with 1 human partners:{000712}

799 Pathogen[ P03346] interacts with 1 human partners:{000712}

800 Pathogen[ Q85601] interacts with 1 human partners:{000712}

801 Pathogen[ P14079] interacts with 1 human partners:{000712}

802 Pathogen[ P03383] interacts with 1 human partners:{000712}

803 Pathogen[ P03410] interacts with 1 human partners:{000712}

804 Pathogen[ P14075] interacts with 1 human partners:{000712}

805 Pathogen[ P0C206] interacts with 1 human partners:{000712}

806 Pathogen[ P03363] interacts with 1 human partners:{000712}

807 [Cluster 74]GO:0008206+P biological\_process [name] bile acid metabolic process [def] "The chemical reactions and pathways involving bile acids, any of a group of steroid carboxylic acids occurring in bile, where they are present as the sodium salts



of their amides with glycine or taurine." [GOC  
808 Pathogen[ Q2Q067] interacts with 1 human partners:{014734}  
809 Pathogen[ POC214] interacts with 1 human partners:{014734}  
810 Pathogen[ P03346] interacts with 3 human partners:{P51161;014734;000482}  
811 Pathogen[ Q85601] interacts with 3 human partners:{P51161;014734;000482}  
812 Pathogen[ P14079] interacts with 2 human partners:{000482;014734}  
813 Pathogen[ P03383] interacts with 1 human partners:{014734}  
814 Pathogen[ P03410] interacts with 2 human partners:{P51161;014734}  
815 Pathogen[ P14075] interacts with 1 human partners:{014734}  
816 Pathogen[ POC206] interacts with 3 human partners:{P51161;000482;014734}  
817 Pathogen[ P03363] interacts with 3 human partners:{014734;P51161;000482}  
818 [Cluster 75]GO:0019722+P biological\_process [name] calcium-mediated signaling  
[def] "A series of molecular signals in which a cell uses calcium ions to convert a  
signal into a response." [GOC  
819 Pathogen[ Q2Q067] interacts with 2 human partners:{Q08209;P53805}  
820 Pathogen[ POC214] interacts with 2 human partners:{Q08209;P53805}  
821 Pathogen[ P03346] interacts with 3 human partners:{P53805;Q7RTS1;Q08209}  
822 Pathogen[ Q85601] interacts with 2 human partners:{Q08209;P53805}  
823 Pathogen[ P14079] interacts with 9 human  
partners:{Q8NE86;P53805;Q7RTS1;Q9GZZ8;Q8TCU4;O43561;Q08209;Q9NZJ9;Q9GZY6}  
824 Pathogen[ P03383] interacts with 1 human partners:{P53805}  
825 Pathogen[ P03410] interacts with 9 human  
partners:{Q08209;Q9GZZ8;O43561;Q7RTS1;Q8TCU4;Q9NZJ9;Q8NE86;Q9GZY6;P53805}  
826 Pathogen[ P14075] interacts with 2 human partners:{P53805;Q9GZZ8}  
827 Pathogen[ POC206] interacts with 4 human partners:{P53805;Q8TCU4;Q8NE86;Q08209}  
828 Pathogen[ P03363] interacts with 2 human partners:{Q7RTS1;P53805}  
829 [Cluster 76]GO:0060486+P biological\_process [name] Clara cell differentiation  
[def] "The process in which a relatively unspecialized cell acquires specialized  
features of a Clara cell. A Clara cell is an unciliated epithelial cell found in the  
respiratory and terminal bronchioles." [GOC  
830 Pathogen[ Q2Q067] interacts with 1 human partners:{000712}  
831 Pathogen[ POC214] interacts with 1 human partners:{000712}  
832 Pathogen[ P03346] interacts with 1 human partners:{000712}  
833 Pathogen[ Q85601] interacts with 1 human partners:{000712}  
834 Pathogen[ P14079] interacts with 1 human partners:{000712}  
835 Pathogen[ P03383] interacts with 1 human partners:{000712}  
836 Pathogen[ P03410] interacts with 1 human partners:{000712}  
837 Pathogen[ P14075] interacts with 1 human partners:{000712}  
838 Pathogen[ POC206] interacts with 1 human partners:{000712}  
839 Pathogen[ P03363] interacts with 1 human partners:{000712}  
840 [Cluster 77]GO:0050702+P biological\_process [name] interleukin-1 beta secretion  
[def] "The regulated release of interleukin 1 beta from a cell or group of cells." [GOC  
841 Pathogen[ Q2Q067] interacts with 1 human partners:{014862}  
842 Pathogen[ POC214] interacts with 2 human partners:{Q9NPP4;014862}  
843 Pathogen[ P03346] interacts with 2 human partners:{Q9NPP4;014862}  
844 Pathogen[ Q85601] interacts with 1 human partners:{014862}  
845 Pathogen[ P14079] interacts with 2 human partners:{014862;Q9NPP4}  
846 Pathogen[ P03383] interacts with 1 human partners:{014862}  
847 Pathogen[ P03410] interacts with 2 human partners:{014862;Q9NPP4}  
848 Pathogen[ P14075] interacts with 1 human partners:{014862}  
849 Pathogen[ POC206] interacts with 1 human partners:{014862}  
850 Pathogen[ P03363] interacts with 2 human partners:{014862;Q9NPP4}  
851 [Cluster 78]GO:0033572+P biological\_process [name] transferrin transport [def]  
"The directed movement of transferrin into, out of or within a cell, or between cells,  
by means of some agent such as a transporter or pore." [GOC  
852 Pathogen[ Q2Q067] interacts with 3 human partners:{P36543;Q00610;P50570}  
853 Pathogen[ POC214] interacts with 4 human partners:{Q16864;Q9UI12;P36543;P50570}  
854 Pathogen[ P03346] interacts with 7 human  
partners:{P21283;P50570;Q9Y5K8;P36543;Q93050;Q16864;Q00610}  
855 Pathogen[ Q85601] interacts with 4 human partners:{Q00610;Q93050;P50570;P36543}  
856 Pathogen[ P14079] interacts with 11 human  
partners:{P36543;Q9Y5K8;Q00610;P61421;Q96LB4;P50570;Q8N8Y2;Q93050;Q9UI12;Q95670;Q168  
64}  
857 Pathogen[ P03383] interacts with 2 human partners:{Q00610;P36543}  
858 Pathogen[ P03410] interacts with 12 human  
partners:{Q00610;Q8N8Y2;P61421;Q93050;P50570;Q9UI12;Q96LB4;Q95670;Q16864;Q9Y5K8;Q753  
48;P36543}  
859 Pathogen[ P14075] interacts with 2 human partners:{Q00610;P36543}  
860 Pathogen[ POC206] interacts with 7 human  
partners:{P36543;Q00610;Q9UI12;Q9Y5K8;Q16864;P50570;Q93050}  
861 Pathogen[ P03363] interacts with 4 human partners:{P36543;P50570;Q00610;Q9Y5K8}  
862 [Cluster 79]GO:0001667+P biological\_process [name] amoeboid cell migration [def]  
"Cell migration that is accomplished by extension and retraction of a pseudopodium."  
[GOC  
863 Pathogen[ Q2Q067] interacts with 1 human partners:{Q7Z7K6}  
864 Pathogen[ POC214] interacts with 1 human partners:{Q7Z7K6}

865 Pathogen[ P03346] interacts with 1 human partners:{Q7Z7K6}  
866 Pathogen[ Q85601] interacts with 1 human partners:{Q7Z7K6}  
867 Pathogen[ P14079] interacts with 2 human partners:{Q01518;Q7Z7K6}  
868 Pathogen[ P03383] interacts with 1 human partners:{Q7Z7K6}  
869 Pathogen[ P03410] interacts with 2 human partners:{Q7Z7K6;Q01518}  
870 Pathogen[ P14075] interacts with 1 human partners:{Q7Z7K6}  
871 Pathogen[ P0C206] interacts with 1 human partners:{Q7Z7K6}  
872 Pathogen[ P03363] interacts with 1 human partners:{Q7Z7K6}  
873 [Cluster 80]GO:0006633+P biological\_process [name] fatty acid biosynthetic process  
[def] "The chemical reactions and pathways resulting in the formation of a fatty acid,  
any of the aliphatic monocarboxylic acids that can be liberated by hydrolysis from  
naturally occurring fats and oils. Fatty acids are predominantly straight-chain acids of  
4 to 24 carbon atoms, which may be saturated or unsaturated\_ branched fatty acids and  
hydroxy fatty acids also occur, and very long chain acids of over 30 carbons are found  
in waxes." [GOC  
874 Pathogen[ Q2Q067] interacts with 7 human  
partners:{Q9H5J4;Q9BW60;Q9GZR5;Q15185;P20823;A1L3X0;Q9HB03}  
875 Pathogen[ P0C214] interacts with 9 human  
partners:{Q9NXB9;Q9GZR5;Q9HB03;O14561;Q8TBF2;Q9NYP7;A1L3X0;Q9BW60;Q15185}  
876 Pathogen[ P03346] interacts with 5 human  
partners:{Q9BW60;Q15185;P20823;Q9H5J4;Q9HB03}  
877 Pathogen[ Q85601] interacts with 7 human  
partners:{A1L3X0;Q9BW60;Q9H5J4;Q9HB03;Q15185;Q9GZR5;P20823}  
878 Pathogen[ P14079] interacts with 10 human  
partners:{A1L3X0;O95822;Q9HB03;Q9Y478;O14561;Q15185;Q8TBF2;Q9GZR5;Q9BW60;Q9H5J4}  
879 Pathogen[ P03383] interacts with 6 human  
partners:{Q9BW60;Q9GZR5;Q9H5J4;A1L3X0;Q9HB03;Q15185}  
880 Pathogen[ P03410] interacts with 9 human  
partners:{A1L3X0;Q9GZR5;Q9H5J4;Q9BW60;O14561;Q15185;Q9HB03;Q8TBF2;O95822}  
881 Pathogen[ P14075] interacts with 7 human  
partners:{Q9H5J4;Q9BW60;Q9HB03;O14561;Q15185;A1L3X0;Q9GZR5}  
882 Pathogen[ P0C206] interacts with 9 human  
partners:{Q9HB03;Q15185;Q8TBF2;Q9H5J4;O14561;P20823;Q9GZR5;A1L3X0;Q9BW60}  
883 Pathogen[ P03363] interacts with 2 human partners:{Q9H5J4;Q15185}  
884 [Cluster 81]GO:0035137+P biological\_process [name] hindlimb morphogenesis [def]  
"The process in which the anatomical structures of the hindlimb are generated and  
organized." [GOC  
885 Pathogen[ Q2Q067] interacts with 4 human partners:{Q05516;P28356;P78337;Q9NSC2}  
886 Pathogen[ P0C214] interacts with 3 human partners:{P78337;Q9NSC2;Q05516}  
887 Pathogen[ P03346] interacts with 7 human  
partners:{P78337;Q9BXA9;Q9NSC2;P28358;P28356;Q05516;Q92481}  
888 Pathogen[ Q85601] interacts with 3 human partners:{P78337;Q05516;Q9NSC2}  
889 Pathogen[ P14079] interacts with 3 human partners:{P78337;Q05516;Q9NSC2}  
890 Pathogen[ P03383] interacts with 3 human partners:{Q05516;P78337;Q9NSC2}  
891 Pathogen[ P03410] interacts with 2 human partners:{Q9NSC2;P78337}  
892 Pathogen[ P14075] interacts with 3 human partners:{Q9NSC2;P78337;Q05516}  
893 Pathogen[ P0C206] interacts with 4 human partners:{Q9NSC2;Q05516;P78337;P28356}  
894 Pathogen[ P03363] interacts with 4 human partners:{P28356;P28358;P78337;Q05516}  
895 [Cluster 82]GO:0051260+P biological\_process [name] protein homooligomerization  
[def] "The process of creating protein oligomers, compounds composed of a small number,  
usually between three and ten, of identical component monomers. Oligomers may be formed  
by the polymerization of a number of monomers or the depolymerization of a large protein  
polymer." [GOC  
896 Pathogen[ Q2Q067] interacts with 33 human  
partners:{P04156;Q8TCS8;Q9P219;P55957;P21980;Q13829;P30793;Q9H0F6;P54274;P50502;Q86X  
R8;O95999;P02511;P38935;Q06609;Q96BF6;Q12962;O75381;P38159;Q9UII2;Q9GZY8;Q9NXV2;Q8N4  
48;Q8TBB1;Q719H9;O14656;Q9H4L7;O60299;Q96RE7;Q9H3F6;Q676U5;P02489;O60888}  
897 Pathogen[ P0C214] interacts with 38 human  
partners:{Q06609;Q9NPP4;P38159;P02489;P02511;Q13829;O60888;P55957;Q9H0F6;Q12962;Q676  
U5;O14656;Q8N448;O60299;O75381;Q9NXV2;Q9H4L7;P38935;Q96BF6;P30793;Q9UII2;Q86XR8;O959  
99;Q96MP8;Q8TCS8;Q8WZ19;Q8TBB1;Q9HD26;Q719H9;P04156;P21980;Q9H3F6;Q9P219;Q96RE7;Q9GZ  
Y8;P54274;P50502;P55072}  
898 Pathogen[ P03346] interacts with 57 human  
partners:{P21980;P38935;Q7Z5Y7;Q96MP8;Q06609;Q8WZ19;Q86XR8;O60888;Q693B1;P50502;P024  
89;O14656;Q4G0X4;Q6ZWB6;P54274;Q96SI1;P55957;Q9NXV2;Q9BQ13;Q96RE7;Q9H0F6;P55072;Q138  
29;Q7L273;Q86SE8;O95999;O75381;Q9P219;Q68DU8;Q9UII2;Q8TBC3;Q6PI47;P02511;Q9NPP4;Q146  
81;Q8N5Z5;Q9HD26;Q8TCS8;Q8N5I3;Q96BF6;Q8NC69;Q12962;Q8TBB1;O60299;Q8WVF5;Q9Y597;P041  
56;Q96CX2;Q9H8V3;Q9H3F6;P38159;Q676U5;O96011;Q9GZY8;Q17RGL;Q9H4L7;Q9UBP0}  
899 Pathogen[ Q85601] interacts with 38 human  
partners:{P02489;Q8WZ19;O60888;Q9UBP0;Q96BF6;P38935;Q96MP8;Q86SE8;Q9H0F6;P30793;Q9P2  
19;Q9UII2;Q86XR8;Q9HD26;P02511;Q8TCS8;P21980;Q9H4L7;Q676U5;P55957;O14656;Q8TBB1;Q96R  
E7;P04156;Q12962;Q96CX2;P50502;P38159;O95999;Q9H3F6;Q9NXV2;O75381;Q13829;Q9GZY8;Q066  
09;P54274;Q719H9;O60299}  
900 Pathogen[ P14079] interacts with 58 human  
partners:{P54274;Q8N307;Q7L273;O95999;Q8NBQ7;P02511;P04156;Q7Z5Y7;Q9H4L7;Q9UII2;Q9UK  
Y0;P21980;Q8N5I3;P30793;P02489;Q719H9;Q8TBB1;Q9HD26;P08758;O14656;O96011;Q12962;O608

88;Q96BF6;P11686;Q68DU8;Q9H8V3;Q9NXV2;Q9Y597;Q6PI47;Q96RE7;Q9H0F6;Q96CX2;O60299;Q8N5Z5;Q17RG1;Q4G0X4;P38935;O75381;Q676U5;Q9GZY8;Q96MP8;Q13829;Q8TBC3;Q86XR8;Q06609;Q9BQ13;P50502;Q9H3F6;Q9P219;Q8TCS8;Q8NC69;P55957;Q8WVF5;P38159;Q96SI1;Q9NPP4;Q14681}

901 Pathogen[ P03383] interacts with 28 human partners: {Q719H9;Q86XR8;Q06609;Q8TBB1;Q9H0F6;P04156;P50502;Q9HD26;O60299;P55957;P02511;Q8TCS8;P38159;Q9UII2;Q9NXV2;O75381;Q676U5;Q8N448;Q96RE7;O95999;Q12962;P38935;P21980;Q9H3F6;Q13829;Q9GZY8;P54274;O60888}

902 Pathogen[ P03410] interacts with 59 human partners: {Q86SE8;Q96BF6;Q13829;Q9P219;Q6PI47;Q8TCS8;Q9H4L7;Q9GZY8;P50502;O14656;P54274;Q8NC69;Q12962;O60299;Q8TBB1;Q8WZ19;Q9BQ13;Q8N307;O96011;Q68DU8;Q9NPP4;O75381;Q8TBC3;P30793;Q17RG1;P55957;Q6ZWB6;Q9HD26;Q96SI1;Q9UII2;Q9H3F6;Q96MP8;P38935;Q719H9;O95999;P02489;Q96CX2;P11686;Q9UKY0;P02511;Q676U5;P04156;Q8N5I3;Q14681;Q4G0X4;Q8N5Z5;Q7L273;Q8WVF5;P21980;Q96RE7;Q9H8V3;P27105;P38159;O60888;Q06609;Q7Z5Y7;Q9H0F6;Q9Y597;Q9NXV2}

903 Pathogen[ P14075] interacts with 29 human partners: {Q12962;P55957;O60888;P38159;P38935;P04156;Q676U5;Q719H9;Q9HD26;Q9GZY8;O75381;Q9NXV2;Q9UII2;P54274;Q96RE7;Q86XR8;O60299;P50502;O95999;P02511;Q8TCS8;Q8N448;P21980;Q9H3F6;P30793;Q13829;Q8TBB1;Q9H0F6;Q06609}

904 Pathogen[ P0C206] interacts with 49 human partners: {Q86XR8;Q9H4L7;Q13829;P38935;Q14681;Q8TCS8;Q9UBP0;P04156;O75381;Q9NXV2;Q96CX2;O95999;P21980;O60299;P30793;Q6PI47;Q8NC69;P54274;P50502;P38159;Q8WZ19;Q693B1;O60888;O14656;Q9P219;Q8TBB1;Q86SE8;Q9H8V3;Q9H3F6;Q17RG1;P55072;Q9UKY0;Q96MP8;O96011;Q8WVF5;Q676U5;Q9H0F6;Q719H9;Q06609;Q96BF6;Q12962;Q9GZY8;P02511;Q7Z5Y7;P02489;Q96RE7;Q9HD26;Q9UII2;P55957}

905 Pathogen[ P03363] interacts with 45 human partners: {Q719H9;Q4G0X4;O60888;Q7L273;P55957;Q96RE7;Q8N5Z5;P50502;Q8N448;Q9H4L7;Q9NXV2;Q9Y597;P04156;Q8TBB1;Q14681;Q7Z5Y7;Q96BF6;Q12962;Q96SI1;P38159;P54274;Q8NC69;Q17RG1;O75381;Q9H3F6;Q6PI47;Q13829;Q8WVF5;Q9H0F6;Q06609;Q86XR8;P02489;Q86SE8;Q9NPP4;Q8WZ19;Q9BQ13;Q9P219;O60299;Q8TBC3;Q676U5;Q9HD26;P38935;Q693B1;Q96MP8;Q9GZY8}

906 [Cluster 83]GO:0006612+P biological\_process [name] protein targeting to membrane [def] "The process of directing proteins towards a membrane, usually using signals contained within the protein." [GOC

907 Pathogen[ Q2Q067] interacts with 1 human partners: {Q9NT62}

908 Pathogen[ P0C214] interacts with 1 human partners: {Q9NT62}

909 Pathogen[ P03346] interacts with 5 human partners: {Q96A65;Q9NT62;Q9BQQ7;Q8TEW0;Q96DX8}

910 Pathogen[ Q85601] interacts with 2 human partners: {Q96A65;Q9NT62}

911 Pathogen[ P14079] interacts with 6 human partners: {Q9NT62;Q8TEW0;O60502;Q96A65;Q96DX8;Q9BQQ7}

912 Pathogen[ P03383] interacts with 1 human partners: {Q9NT62}

913 Pathogen[ P03410] interacts with 6 human partners: {O60502;Q96A65;Q9NT62;Q9BQQ7;Q8TEW0;Q96DX8}

914 Pathogen[ P14075] interacts with 1 human partners: {Q9NT62}

915 Pathogen[ P0C206] interacts with 5 human partners: {Q96DX8;Q96A65;Q8TEW0;Q9BQQ7;Q9NT62}

916 Pathogen[ P03363] interacts with 4 human partners: {Q9BQQ7;Q96DX8;Q96A65;Q9NT62}

917 [Cluster 84]GO:0034641+P biological\_process [name] cellular nitrogen compound metabolic process [def] "The chemical reactions and pathways involving various organic and inorganic nitrogenous compounds, as carried out by individual cells." [GOC

918 Pathogen[ Q2Q067] interacts with 56 human partners: {Q99460;O75832;P48556;P40306;Q96NU7;P55036;O00231;O00233;P51665;P28072;P61457;P49419;A5LHX3;Q13200;Q96GX9;P25787;Q06323;Q63HM1;P21953;Q9BV57;P28065;O14818;Q9UMX2;Q14997;P60900;Q9UL46;P34896;P61289;P28062;P15559;Q9BV20;Q16719;Q9UNM6;P25788;Q92530;P25786;Q16401;O00232;P28074;P25789;Q9UI32;P20618;O94925;P28070;P28066;Q99436;Q8TAA3;Q9UBX3;O43242;P49721;P49720;P21673;Q95190;P32929;O43708;O95571}

919 Pathogen[ P0C214] interacts with 84 human partners: {P50440;Q14997;P51665;P49419;P09417;Q9Y617;P25789;P55036;Q9NVH6;P28062;P00480;A5LHX3;P28065;P12694;O14818;Q9BV57;O43242;P61457;P12277;Q96GX9;Q16613;P48556;Q9UI32;P40306;Q13200;O00232;P32929;O95571;P54368;Q9UBX3;Q99460;P28066;O75832;P49720;P28074;P21953;P34896;P52788;Q9UL46;Q63HM1;Q9NWM0;P25788;O15382;P19623;Q9UNM6;O00231;Q06323;Q9UMX2;P25786;Q9UHY7;Q6NVY1;P28072;Q8TAA3;P09622;P54687;Q99436;Q13126;O94925;P25787;P23526;Q96NU7;Q95190;P35998;P60900;P04424;P21673;P35520;O43708;O00233;Q8N159;Q16762;Q92530;P15559;Q15008;P28070;P20618;P36957;Q16719;P49721;Q16401;P17980;Q9BV20;Q16773;Q9NZL9}

920 Pathogen[ P03346] interacts with 57 human partners: {P25787;P28070;P25789;P55036;Q99460;P23526;Q9UL46;Q9BV20;P28072;Q9UBX3;P25788;P28074;P49721;Q9NZL9;Q9BV57;O14818;Q99436;Q9UMX2;Q16401;A5LHX3;Q63HM1;P28062;Q96NU7;P21673;P15559;P20618;O00232;O75832;O00233;Q9UI32;P49419;P49720;P28065;P60900;P32929;P25786;O00231;Q9UHY7;Q16719;P61289;O43708;P28066;Q9UNM6;O94925;Q8TAA3;Q14997;Q13200;P48556;P51665;P61457;Q06323;Q92530;O43242;Q96GX9;P40306;O95571;O95190}

921 Pathogen[ Q85601] interacts with 55 human partners: {P28066;Q9UNM6;P60900;P55036;O94925;O43708;P25787;P61289;P00480;Q9UBX3;P25788;Q16719;O75832;Q16613;P21673;P21953;Q96GX9;Q9BV57;P25789;Q63HM1;O00233;Q9UMX2;P20618;P40306;P34896;P49720;P28062;P49721;Q95190;P25786;P28072;Q13200;P28065;Q99436;P28070;Q8TAA3;Q9UL46;Q99460;O00231;Q9UHY7;P23526;P48556;P28074;Q92530;A5LHX3;Q9BV20;Q9UI32;Q06323;O95571;O14818;O15382;P61457;Q16401;P49419;P32929}

- 922 Pathogen[ P14079] interacts with 83 human  
partners: {P01215;P28065;Q99436;P17707;P48775;Q8N159;P62333;P48556;P42357;P21953;Q96K  
P4;Q9Y617;P40306;Q96NU7;P55036;Q9BV20;P28074;O00232;P61457;P01225;Q9UMX2;Q63HM1;Q96N  
76;Q93099;P49720;O00487;Q95190;P25787;Q75832;Q9NVH6;O43708;A5LHX3;Q95954;O00233;P155  
59;P35998;Q9NZL9;Q8TDX5;P61289;P51665;Q16613;P20618;Q8TAA3;O95571;P54368;Q14997;O949  
25;Q14353;P28062;P60900;Q16719;Q9UNM6;Q96GX9;Q99460;P16930;O14818;P49721;P32929;Q9UI  
32;Q92530;P00480;Q16762;Q06323;P62191;Q16878;P19623;P23526;Q15008;P43686;O43242;P257  
88;O00231;P28066;Q9UL46;P04424;O15382;P50440;P21673;Q16401;Q9BV57;P17980;P28072;P348  
96}
- 923 Pathogen[ P03383] interacts with 47 human  
partners: {P55036;O94925;P25789;P60900;P34896;P40306;O00233;Q63HM1;P49721;Q06323;Q166  
13;Q14997;P61457;P20618;Q9BV57;Q16719;Q96GX9;O75832;Q8N159;Q9UL46;Q95190;Q9UNM6;P257  
86;Q99460;P28072;Q13200;P28065;P28066;Q9BV20;Q16401;O00231;P28074;Q92530;P49720;Q8TA  
A3;P61289;P01215;P28062;O95571;P48556;O14818;Q99436;P21673;P28070;P49419;P25787;P257  
88}
- 924 Pathogen[ P03410] interacts with 83 human  
partners: {P15559;P28070;P55036;Q14353;P25786;Q9NVH6;Q15008;Q16401;Q8N159;P60900;Q149  
97;P35998;Q99460;Q16719;O00233;P32929;O95954;P04424;O00232;P12694;Q8TAA3;P48556;P497  
21;O95190;Q6NVY1;P21953;P01215;P19623;Q96NU7;A5LHX3;P52788;Q9Y617;Q9UBX3;Q99436;O949  
25;Q9BV20;O43708;P40306;Q93099;Q06323;P00480;O95571;Q63HM1;Q8TDX5;Q13200;P48775;P257  
87;Q96N76;Q16762;O15382;Q16613;P28062;P51665;P49419;O14818;P21673;Q96GX9;P23526;O002  
31;Q9UNM6;P54368;P25789;P49720;P28072;Q9UI32;P17707;P16930;P25788;P28066;Q9BV57;P504  
40;Q9UMX2;P28065;O43242;Q9NZL9;P34896;P17980;O75832;P20618;Q9UL46;P28074;P61289;P614  
57}
- 925 Pathogen[ P14075] interacts with 50 human  
partners: {Q9NVH6;Q96GX9;Q16719;P55036;P25788;P28066;Q06323;O75832;Q8TAA3;P60900;P348  
96;O00233;Q9UL46;Q9BV57;P49720;Q9BV20;Q8N159;Q16613;Q13200;P48556;Q16401;P15559;P280  
70;P49721;O95571;O00231;Q92530;P49419;P28062;P28074;P28065;Q63HM1;P25786;O14818;P614  
57;P28072;Q14997;O94925;P25787;P20618;P01215;Q9UNM6;P21673;P61289;P40306;Q99436;P504  
40;Q96NU7;O95190;P25789}
- 926 Pathogen[ P0C206] interacts with 68 human  
partners: {P61289;Q99436;P28062;Q9UNM6;O75832;P40306;P28065;Q14997;Q9NZL9;Q9BV20;P550  
36;P25786;P25788;P25787;Q06323;O15382;P49720;P15559;Q9NVH6;O00232;P60900;P21953;Q9UB  
X3;O43242;A5LHX3;Q8N159;P25789;O95954;P21673;P54368;Q16719;P20618;O43708;Q13200;Q8TA  
A3;P28070;Q9UHY7;O95190;P34896;P50440;P32929;P01215;Q99460;P23526;P28066;Q9BV57;O148  
18;P61457;Q9UI32;Q96GX9;P28072;Q63HM1;O94925;P28074;P49419;Q92530;P49721;Q16762;Q9UL  
46;Q16613;O00233;O95571;P48556;P00480;Q16401;O00231;Q96NU7;Q9UMX2}
- 927 Pathogen[ P03363] interacts with 15 human  
partners: {P49419;Q92530;O94925;P61289;Q63HM1;P21673;O95571;P61457;Q9BV57;Q9UI32;Q9BV  
20;Q9UMX2;Q96GX9;O43708;O95190}
- 928 [Cluster 85]GO:000090+P biological\_process [name] mitotic anaphase [def] "Anaphase  
occurring as part of mitosis. Anaphase is the part of nuclear division in which sister  
chromatids (or chromosomes) separate and migrate towards the poles of the spindle.  
Mitosis is the cell cycle process in which, canonically, the nucleus of a eukaryotic  
cell divides to produce two daughter nuclei whose chromosome complement is identical to  
that of the mother cell." [GOC
- 929 Pathogen[ Q2Q067] interacts with 11 human  
partners: {Q14980;Q9UJX5;Q14674;Q96R06;Q9Y448;Q9UM13;Q13618;Q9UJX4;Q9Y6D9;Q96BD8;Q8WV  
K7}
- 930 Pathogen[ P0C214] interacts with 11 human  
partners: {Q96R06;Q9UJX5;Q13618;Q14980;Q96BD8;Q9UJX4;Q9Y448;Q9UM13;Q9Y6D9;Q8WVK7;Q146  
74}
- 931 Pathogen[ P03346] interacts with 11 human  
partners: {Q9Y6D9;Q96R06;Q13618;Q9UM13;Q14980;Q9UJX5;Q9UJX4;Q9Y448;Q14674;Q96BD8;Q8WV  
K7}
- 932 Pathogen[ Q85601] interacts with 11 human  
partners: {Q14674;Q96R06;Q9Y448;Q9UJX5;Q9UM13;Q96BD8;Q9Y6D9;Q14980;Q9UJX4;Q8WVK7;Q136  
18}
- 933 Pathogen[ P14079] interacts with 10 human  
partners: {Q14980;Q96R06;Q13618;Q9UJX5;Q14674;Q9Y448;Q9UM13;Q8WVK7;Q96BD8;Q9UJX4}
- 934 Pathogen[ P03383] interacts with 11 human  
partners: {Q96BD8;Q13618;Q96R06;Q9UM13;Q14674;Q8WVK7;Q14980;Q9UJX4;Q9UJX5;Q9Y448;Q9Y6  
D9}
- 935 Pathogen[ P03410] interacts with 10 human  
partners: {Q9UJX4;Q9UM13;Q96R06;Q14674;Q13618;Q9Y448;Q14980;Q8WVK7;Q9UJX5;Q96BD8}
- 936 Pathogen[ P14075] interacts with 11 human  
partners: {Q9Y6D9;Q13618;Q96R06;Q8WVK7;Q96BD8;Q9UJX5;Q9UJX4;Q14674;Q9UM13;Q14980;Q9Y4  
48}
- 937 Pathogen[ P0C206] interacts with 10 human  
partners: {Q9Y6D9;Q9UJX5;Q9Y448;Q96BD8;Q9UJX4;Q13618;Q14674;Q14980;Q9UM13;Q8WVK7}
- 938 Pathogen[ P03363] interacts with 11 human  
partners: {Q9Y6D9;Q96BD8;Q14980;Q13618;Q8WVK7;Q9UJX5;Q9UJX4;Q96R06;Q14674;Q9UM13;Q9Y4  
48}
- 939 [Cluster 86]GO:0051928+P biological\_process [name] positive regulation of calcium  
ion transport [def] "Any process that activates or increases the frequency, rate or  
extent of the directed movement of calcium ions into, out of or within a cell, or

between cells, by means of some agent such as a transporter or pore." [GOC

940 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BSW2}

941 Pathogen[ P0C214] interacts with 1 human partners:{Q9BSW2}

942 Pathogen[ P03346] interacts with 1 human partners:{Q9BSW2}

943 Pathogen[ Q85601] interacts with 1 human partners:{Q9BSW2}

944 Pathogen[ P14079] interacts with 3 human partners:{Q9BSW2;O60502;O43612}

945 Pathogen[ P03383] interacts with 1 human partners:{Q9BSW2}

946 Pathogen[ P03410] interacts with 2 human partners:{O43612;O60502}

947 Pathogen[ P14075] interacts with 1 human partners:{Q9BSW2}

948 Pathogen[ P0C206] interacts with 1 human partners:{Q9BSW2}

949 Pathogen[ P03363] interacts with 1 human partners:{Q9BSW2}

950 [Cluster 87]GO:0048676+P biological\_process [name] axon extension involved in development [def] "Long distance growth of a single axon process involved in cellular development." [GOC

951 Pathogen[ Q2Q067] interacts with 2 human partners:{Q12837;Q99608}

952 Pathogen[ P0C214] interacts with 2 human partners:{Q99608;Q12837}

953 Pathogen[ P03346] interacts with 3 human partners:{Q12837;Q99608;Q15319}

954 Pathogen[ Q85601] interacts with 2 human partners:{Q99608;Q12837}

955 Pathogen[ P14079] interacts with 3 human partners:{Q12837;Q99608;P10636}

956 Pathogen[ P03383] interacts with 2 human partners:{Q99608;Q12837}

957 Pathogen[ P03410] interacts with 3 human partners:{Q99608;P10636;Q12837}

958 Pathogen[ P14075] interacts with 2 human partners:{Q99608;Q12837}

959 Pathogen[ P0C206] interacts with 3 human partners:{P10636;Q12837;Q99608}

960 Pathogen[ P03363] interacts with 3 human partners:{Q99608;Q12837;Q15319}

961 [Cluster 88]GO:0016074+P biological\_process [name] snoRNA metabolic process [def] "The chemical reactions and pathways involving snoRNA, small nucleolar RNA, any of a class of small RNAs that are associated with the eukaryotic nucleus as components of small nucleolar ribonucleoproteins. They participate in the processing or modifications of many RNAs, mostly ribosomal RNAs (rRNAs) though snoRNAs are also known to target other classes of RNA, including spliceosomal RNAs, tRNAs, and mRNAs via a stretch of sequence that is complementary to a sequence in the targeted RNA." [GOC

962 Pathogen[ Q2Q067] interacts with 1 human partners:{P22087}

963 Pathogen[ P0C214] interacts with 1 human partners:{P22087}

964 Pathogen[ P03346] interacts with 1 human partners:{P22087}

965 Pathogen[ Q85601] interacts with 1 human partners:{P22087}

966 Pathogen[ P14079] interacts with 1 human partners:{P22087}

967 Pathogen[ P03383] interacts with 1 human partners:{P22087}

968 Pathogen[ P03410] interacts with 1 human partners:{P22087}

969 Pathogen[ P14075] interacts with 1 human partners:{P22087}

970 Pathogen[ P0C206] interacts with 1 human partners:{P22087}

971 Pathogen[ P03363] interacts with 1 human partners:{P22087}

972 [Cluster 89]GO:0042063+P biological\_process [name] gliogenesis [def] "The process that results in the generation of glial cells. This includes the production of glial progenitors and their differentiation into mature glia." [GOC

973 Pathogen[ Q2Q067] interacts with 1 human partners:{Q00534}

974 Pathogen[ P0C214] interacts with 1 human partners:{Q00534}

975 Pathogen[ P03346] interacts with 1 human partners:{Q00534}

976 Pathogen[ Q85601] interacts with 1 human partners:{Q00534}

977 Pathogen[ P14079] interacts with 1 human partners:{P04083}

978 Pathogen[ P03383] interacts with 1 human partners:{Q00534}

979 Pathogen[ P03410] interacts with 1 human partners:{Q00534}

980 Pathogen[ P14075] interacts with 1 human partners:{Q00534}

981 Pathogen[ P0C206] interacts with 1 human partners:{Q00534}

982 Pathogen[ P03363] interacts with 1 human partners:{Q00534}

983 [Cluster 90]GO:0021612+P biological\_process [name] facial nerve structural organization [def] "The process that contributes to the act of creating the structural organization of the facial nerve. This process pertains to the physical shaping of a rudimentary structure. This sensory and motor nerve supplies the muscles of facial expression and the expression and taste at the anterior two-thirds of the tongue. The principal branches are the superficial ophthalmic, buccal, palatine and hyomandibular. The main trunk synapses within pterygopalatine ganglion in the parotid gland and this ganglion then gives off nerve branches which supply the lacrimal gland and the mucous secreting glands of the nasal and oral cavities." [GO\_REF

984 Pathogen[ Q2Q067] interacts with 4 human partners:{P11161;P49639;P14652;P14653}

985 Pathogen[ P0C214] interacts with 3 human partners:{P49639;P14653;P11161}

986 Pathogen[ P03346] interacts with 4 human partners:{P49639;P14652;P14653;P11161}

987 Pathogen[ Q85601] interacts with 3 human partners:{P49639;P14653;P11161}

988 Pathogen[ P14079] interacts with 2 human partners:{P11161;P49639}

989 Pathogen[ P03383] interacts with 2 human partners:{P49639;P11161}

990 Pathogen[ P03410] interacts with 2 human partners:{P49639;P11161}

991 Pathogen[ P14075] interacts with 1 human partners:{P11161}

992 Pathogen[ P0C206] interacts with 4 human partners:{P11161;P49639;P14653;P14652}

993 Pathogen[ P03363] interacts with 4 human partners:{P49639;P14653;P14652;P11161}

994 [Cluster 91]GO:0051726+P biological\_process [name] regulation of cell cycle [def] "Any process that modulates the rate or extent of progression through the cell cycle." [GOC

995 Pathogen[ Q2Q067] interacts with 49 human  
partners: {P30281;Q99583;P24385;Q16589;P06400;Q01094;Q08999;O95257;Q9NZJ0;P30279;O00541;Q92905;Q9H7S9;P22674;P14635;P11142;Q14137;Q9Y297;P24522;Q15004;P30307;Q9BXY8;P10914;P24864;O95067;Q9H869;Q969U7;Q16543;P78396;Q13243;P38936;P20248;O96020;Q13363;Q13309;P28749;Q14209;Q96PU4;P24863;Q8N693;Q9NUQ3;P11802;Q8TDN4;Q13490;P18583;Q9Y468;P35658;Q03112;P51946}

996 Pathogen[ P0C214] interacts with 52 human  
partners: {P20248;P51946;P24863;Q16543;P30307;P24522;Q13363;Q13490;Q08999;Q8N693;Q13309;Q03112;O00541;Q92560;P17275;P11802;Q96PU4;P10914;Q9H869;P14635;P24385;Q9Y297;Q9Y468;P38936;O95257;Q9NUQ3;Q8TDN4;Q01094;P18583;Q92905;Q14137;P78396;P30281;P35658;Q13243;Q9NZJ0;O95067;P22674;Q15004;Q969U7;P05412;P28749;P24864;P30279;Q99583;Q14209;P06400;Q9BXY8;Q9H7S9;O96020;P11142;Q16589}

997 Pathogen[ P03346] interacts with 55 human  
partners: {Q9NZJ0;P30281;P05412;Q16589;P78396;Q969U7;Q92560;P24385;P30279;Q08999;Q02535;O00541;P06400;P17275;O96020;P24863;Q15004;Q8N693;Q96FS4;P24864;P11142;P18583;Q14209;Q8TDN4;Q9BXY8;O95067;P35658;Q01094;P11802;Q9H869;P14635;P10914;Q13309;Q9NUQ3;Q03112;P51946;P20248;Q9H7S9;Q16543;Q9Y468;Q92905;P28749;Q14137;Q13363;Q13490;Q96PU4;P38936;Q13243;Q99583;O95257;Q9BT7;Q9Y297;P22674;P30307;P24522}

998 Pathogen[ Q85601] interacts with 51 human  
partners: {P51946;P30281;P22674;Q16543;Q13309;O00541;P24385;Q13490;Q15004;Q08999;Q13243;P06400;Q9H7S9;Q92560;Q03112;Q9Y468;Q96PU4;Q16589;Q9NZJ0;P24522;Q13363;Q8TDN4;P10914;P11802;Q9H869;O96020;P30307;Q9BXY8;Q969U7;P14635;P11142;Q92905;P30279;P20248;P05412;O95257;P78396;Q14209;Q8N693;Q99583;P28749;P35658;P18583;P24863;P38936;O95067;P17275;Q14137;Q01094;Q9NUQ3;P24864}

999 Pathogen[ P14079] interacts with 48 human  
partners: {Q9H869;P11142;Q8IZ21;Q8N693;P30307;P28749;Q9H869;P51946;Q13309;Q9Y6A5;P78396;P24864;P35658;Q9Y468;Q13243;Q9BT7;Q14209;O95067;Q9NUQ3;Q99583;Q8TDN4;P14635;Q969U7;Q9BXY8;Q92560;P38936;P24863;P17275;P24522;Q92905;P20248;O75293;O00541;Q9NZJ0;Q14137;Q16589;Q9H7S9;Q15004;P05412;O96020;Q16543;O95257;P18583;Q01094;P10914;P22674;Q08999;Q13490}

1000 Pathogen[ P03383] interacts with 48 human  
partners: {P30307;P10914;Q16543;Q14209;Q9NZJ0;Q08999;Q01094;Q9H869;O00541;P22674;Q92905;Q9NUQ3;Q15004;Q13490;Q96PU4;P24522;P24385;Q13243;Q8N693;P14635;P11802;P06400;P78396;P30279;Q03112;P18583;Q9BXY8;P51946;O95067;O96020;P11142;Q8TDN4;Q9H7S9;Q99583;P28749;P35658;Q13309;P24863;P24864;Q969U7;P30281;P17275;Q14137;P20248;Q13363;O95257;Q9Y468;P05412}

1001 Pathogen[ P03410] interacts with 52 human  
partners: {Q16589;Q03112;Q9H869;O75293;P30279;Q16543;Q8IZ21;Q9BT7;O96020;P24522;P51946;Q13490;Q92905;P22674;O95067;P11142;Q08999;Q9Y468;Q15004;Q9Y6A5;P06400;Q9BXY8;Q14137;Q969U7;P78396;P24385;P14635;P38936;Q13309;P35658;P17275;P11802;P10914;Q99583;Q9NUQ3;P18583;P05412;P20248;P30281;P24863;P28749;Q01094;O00541;Q9H7S9;Q8N693;O95257;Q14209;Q13243;Q8TDN4;P24864;P30307;Q9NZJ0}

1002 Pathogen[ P14075] interacts with 48 human  
partners: {Q16543;P11142;P24863;O95067;Q08999;P05412;P11802;Q13243;P14635;P17275;P30281;P30279;Q9Y468;O00541;Q96PU4;O95257;Q969U7;P35658;O96020;Q14209;P78396;Q9NUQ3;Q9BXY8;Q13490;P22674;Q8N693;P20248;Q13309;Q01094;P06400;Q03112;P51946;P28749;P24522;Q14137;P24385;Q13363;Q9H7S9;Q99583;Q9NZJ0;P10914;Q92905;Q8TDN4;P30307;Q15004;P18583;P24864;Q9H869}

1003 Pathogen[ P0C206] interacts with 56 human  
partners: {O75293;Q9Y468;Q969U7;P24863;P10914;Q9NUQ3;Q8TDN4;P24522;P30307;Q13309;Q14137;Q9BXY8;P18583;P17275;Q9H869;Q99583;P30279;P05412;Q13243;P20248;Q16543;Q16589;O96020;P28749;Q08999;P30291;Q9H7S9;Q14209;Q03112;O95257;Q9Y6A5;Q01094;Q8N693;P38936;Q9NZJ0;O00541;P78396;O95067;Q9BT7;P14635;Q13363;Q15004;P24864;P11142;P11802;Q92560;P22674;P35658;Q9640;Q96PU4;P51946;P24385;Q92905;P30281;P06400;Q13490}

1004 Pathogen[ P03363] interacts with 50 human  
partners: {Q13490;Q13309;Q16589;Q969U7;P24864;Q9Y468;Q9H7S9;P24863;Q9H869;P30279;P20248;Q03112;O95257;P51946;Q8N693;P06400;P28749;P17275;Q16543;Q92560;O95067;O96020;P18583;Q08999;Q01094;P78396;Q13243;Q15004;P24522;P10914;P35658;Q14137;Q14209;P24385;Q8TDN4;P05412;Q9NUQ3;Q13363;P11802;P22674;Q96PU4;P30307;Q9NZJ0;P30281;O00541;Q99583;Q96FS4;Q92905;P11142;Q9BXY8}

1005 [Cluster 92]GO:0010633+P biological\_process [name] negative regulation of epithelial cell migration [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of epithelial cell migration." [GOC

1006 Pathogen[ Q2Q067] interacts with 1 human partners: {P23508}

1007 Pathogen[ P0C214] interacts with 1 human partners: {P23508}

1008 Pathogen[ P03346] interacts with 1 human partners: {P23508}

1009 Pathogen[ Q85601] interacts with 1 human partners: {P23508}

1010 Pathogen[ P14079] interacts with 1 human partners: {P23508}

1011 Pathogen[ P03383] interacts with 1 human partners: {P23508}

1012 Pathogen[ P03410] interacts with 1 human partners: {P23508}

1013 Pathogen[ P14075] interacts with 1 human partners: {P23508}

1014 Pathogen[ P0C206] interacts with 1 human partners: {P23508}

1015 Pathogen[ P03363] interacts with 1 human partners: {P23508}

1016 [Cluster 93]GO:0034660+P biological\_process [name] ncRNA metabolic process [def] "The chemical reactions and pathways involving non-coding RNA transcripts (ncRNAs)." [GOC

1017 Pathogen[ Q2Q067] interacts with 22 human  
partners: {O14744;P62318;Q9BQA1;P54105;P62314;Q9UHI6;P62304;Q8WXD5;P14678;Q96RS0;Q8TEQ6;P57678;Q09161;P52298;P62316;P62306;Q9H840;Q16637;P62308;O14893;Q9H814;O95149}

1018 Pathogen[ POC214] interacts with 19 human  
partners: {Q16637;P62316;Q09161;Q9H814;P14678;P62306;P57678;Q8WXD5;O95149;P62308;P52298;P62314;Q8TEQ6;Q9UHI6;P62318;Q96RS0;Q9H840;P62304;O14893}

1019 Pathogen[ P03346] interacts with 22 human  
partners: {P54105;Q09161;O95149;Q9BQA1;P62304;Q9H814;Q8WXD5;O14744;P52298;Q16637;P62318;P62306;Q9UHI6;Q96RS0;Q8TEQ6;P62314;P14678;P57678;O14893;P62316;P62308;Q9H840}

1020 Pathogen[ Q85601] interacts with 21 human  
partners: {Q9BQA1;O95149;P62304;O14744;P62316;Q09161;P14678;Q9H814;P62314;P62306;Q8TEQ6;P62318;Q9UHI6;P54105;Q96RS0;O14893;P62308;P52298;Q16637;Q8WXD5;Q9H840}

1021 Pathogen[ P14079] interacts with 22 human  
partners: {P57678;Q96RS0;Q8TEQ6;O14893;P52298;Q9H840;Q9UHI6;P62314;O95149;P62306;P14678;O14744;Q16637;Q9BQA1;P62308;P62304;P62316;P54105;P62318;Q8WXD5;Q09161;Q9H814}

1022 Pathogen[ P03383] interacts with 22 human  
partners: {Q9BQA1;Q9H840;P62318;P54105;P62316;P62304;Q9UHI6;Q8WXD5;O14744;Q09161;Q16637;P62314;Q8TEQ6;O14893;O95149;P14678;Q96RS0;P52298;P57678;P62308;Q9H814;P62306}

1023 Pathogen[ P03410] interacts with 22 human  
partners: {Q96RS0;Q8WXD5;O14893;P62304;Q9H840;P62306;P54105;Q8TEQ6;Q9BQA1;P62308;P14678;P62316;Q9H814;P52298;Q16637;P62314;P57678;Q09161;O14744;Q9UHI6;O95149;P62318}

1024 Pathogen[ P14075] interacts with 22 human  
partners: {Q8TEQ6;P62304;P54105;Q09161;P62316;Q9H814;Q8WXD5;Q9BQA1;P57678;Q9H840;P62306;P62308;Q16637;Q9UHI6;P62318;O14744;Q96RS0;O95149;P14678;O14893;P62314;P52298}

1025 Pathogen[ POC206] interacts with 22 human  
partners: {Q96RS0;P14678;O95149;P52298;Q9H840;Q9BQA1;Q09161;Q8WXD5;P54105;P62304;O14744;Q8TEQ6;P62314;P62316;Q9H814;P62318;O14893;P62306;Q9UHI6;Q16637;P62308;P57678}

1026 Pathogen[ P03363] interacts with 22 human  
partners: {P62314;Q96RS0;O14744;Q9UHI6;P62318;P62304;O14893;P62306;P54105;P57678;Q9BQA1;P62316;P52298;Q9H840;Q8TEQ6;P62308;Q16637;P14678;O95149;Q9H814;Q09161}

1027 [Cluster 94]GO:0042787+P biological\_process [name] protein ubiquitination involved in ubiquitin-dependent protein catabolic process [def] "The process in which a ubiquitin group, or multiple groups, are covalently attached to the target protein, thereby initiating the degradation of that protein." [GOC

1028 Pathogen[ Q2Q067] interacts with 20 human  
partners: {O95376;Q96J02;Q9HAU4;Q9UII4;Q15386;O60260;Q96T88;Q16531;Q7Z6Z7;Q14669;Q8N1E6;Q8TBB1;Q96PM5;Q9NTX7;Q13233;Q96PU5;Q9Y3C5;Q05086;Q00987;Q7Z6E9}

1029 Pathogen[ POC214] interacts with 26 human  
partners: {Q05086;Q96J02;Q96PM5;Q9HAU4;Q00987;Q9NTX7;Q8N1E6;Q9Y3C5;O00308;Q5T447;Q96T88;Q9H0M0;Q9HCE7;Q13233;O95071;Q7Z6E9;Q15386;O95376;Q9UII4;Q8TBB1;Q14669;Q7Z6Z7;O95155;O60260;Q16531;Q96PU5}

1030 Pathogen[ P03346] interacts with 30 human  
partners: {Q96J02;Q9HAU4;Q96PU5;O95155;O95376;O95714;Q9Y3C5;Q16531;Q9UII4;Q96PM5;Q9NTX7;Q13438;Q15386;Q5T447;Q00987;Q8N1E6;Q7Z6E9;Q14669;Q8IUQ4;Q13233;Q8TBB1;O60260;Q9ULT8;Q05086;Q9H0M0;O95071;POC2W1;Q7Z6Z7;Q96T88;O00308}

1031 Pathogen[ Q85601] interacts with 22 human  
partners: {Q7Z6E9;Q96J02;Q9HAU4;Q16531;O95714;Q9Y3C5;Q96PM5;Q96PU5;Q14669;Q15386;O95155;Q8N1E6;Q96T88;Q9NTX7;Q8TBB1;O95376;O60260;Q7Z6Z7;Q05086;Q13233;O95071;Q00987}

1032 Pathogen[ P14079] interacts with 10 human  
partners: {O60260;Q16531;Q8N1E6;Q9HAU4;Q00987;Q8TBB1;Q7Z6E9;Q96J02;Q9Y3C5;Q13438}

1033 Pathogen[ P03383] interacts with 7 human  
partners: {Q8TBB1;Q13233;Q9NTX7;O60260;O95376;Q96PM5;Q16531}

1034 Pathogen[ P03410] interacts with 8 human  
partners: {Q8TBB1;Q8N1E6;O60260;Q13233;Q9Y3C5;Q16531;Q00987;Q13438}

1035 Pathogen[ P14075] interacts with 7 human  
partners: {Q96PM5;Q9NTX7;Q16531;O95376;Q13233;Q8TBB1;O60260}

1036 Pathogen[ POC206] interacts with 25 human  
partners: {Q96PU5;O95376;O00308;Q9HAU4;Q8N1E6;Q8IUQ4;Q05086;Q96J02;Q16531;O95155;Q14669;Q13233;Q15386;Q96T88;O60260;Q8TBB1;Q96PM5;Q13438;Q7Z6Z7;Q00987;Q7Z6E9;Q9NTX7;O95071;O95714;Q9Y3C5}

1037 Pathogen[ P03363] interacts with 25 human  
partners: {O95376;Q9HAU4;Q9Y3C5;Q16531;Q9ULT8;O95155;Q7Z6E9;Q9NTX7;Q8TBB1;Q05086;Q7Z6Z7;Q14669;Q96PU5;Q96PM5;O95071;Q15386;O00308;Q13438;O95714;Q96T88;Q9H0M0;Q8N1E6;Q13233;Q9UII4;Q5T447}

1038 [Cluster 95]GO:0043586+P biological\_process [name] tongue development [def] "The process whose specific outcome is the progression of the tongue over time, from its formation to the mature structure. The tongue is the movable, muscular organ on the floor of the mouth of most vertebrates, in many other mammals is the principal organ of taste, aids in the prehension of food, in swallowing, and in modifying the voice as in speech." [GOC

1039 Pathogen[ Q2Q067] interacts with 1 human partners: {Q9HAZ2}

1040 Pathogen[ POC214] interacts with 1 human partners: {Q9HAZ2}

1041 Pathogen[ P03346] interacts with 1 human partners: {Q9HAZ2}

1042 Pathogen[ Q85601] interacts with 1 human partners: {Q9HAZ2}

1043 Pathogen[ P14079] interacts with 1 human partners: {Q9HAZ2}

1044 Pathogen[ P03383] interacts with 1 human partners: {Q9HAZ2}

1045 Pathogen[ P03410] interacts with 1 human partners:{Q9HAZ2}  
1046 Pathogen[ P14075] interacts with 1 human partners:{Q9HAZ2}  
1047 Pathogen[ P0C206] interacts with 1 human partners:{Q9HAZ2}  
1048 Pathogen[ P03363] interacts with 1 human partners:{Q9HAZ2}  
1049 [Cluster 96]GO:0007519+P biological\_process [name] skeletal muscle tissue  
development [def] "The developmental sequence of events leading to the formation of  
adult muscle that occurs in the animal. In vertebrate skeletal muscle the main events are  
1050 Pathogen[ Q2Q067] interacts with 13 human  
partners:{Q9NR56;P60660;P13349;P28356;Q8N8G2;O75182;P15172;P11532;P53805;P12757;P502  
22;P61586;P23409}  
1051 Pathogen[ P0C214] interacts with 12 human  
partners:{P12757;Q9NR56;P13349;P61586;Q8N8G2;P14649;P15172;P60660;P11532;P50222;P538  
05;O75182}  
1052 Pathogen[ P03346] interacts with 21 human  
partners:{P53805;P60660;Q8N8G2;P12757;P48443;Q14774;P13349;Q9UIU6;P15172;P23409;P151  
73;P23759;O75182;P14649;P28358;P50222;P28356;Q15475;P11532;Q9NR56;P61586}  
1053 Pathogen[ Q85601] interacts with 13 human  
partners:{O75182;Q8N8G2;P15172;P13349;P14649;P12757;P11532;Q9NR56;P23409;P50222;P615  
86;P53805;P60660}  
1054 Pathogen[ P14079] interacts with 16 human  
partners:{O95425;P15502;Q06413;Q8N8G2;P11532;P13349;P23409;P53805;Q9NR56;P48443;P146  
49;P60660;P61586;O75182;P12757;P50222}  
1055 Pathogen[ P03383] interacts with 10 human  
partners:{O75182;P15172;Q9NR56;P50222;P53805;Q8N8G2;P61586;P11532;P12757;P15502}  
1056 Pathogen[ P03410] interacts with 15 human  
partners:{P23409;Q8N8G2;P50222;P11532;O75182;Q9NR56;O95425;P15502;P61586;P53805;P127  
57;P13349;P14649;P60660;Q16635}  
1057 Pathogen[ P14075] interacts with 10 human  
partners:{P11532;P15172;O75182;P53805;P12757;Q9NR56;P15502;P61586;P50222;Q8N8G2}  
1058 Pathogen[ P0C206] interacts with 17 human  
partners:{P53805;P15502;Q9NR56;P60660;P23409;P50461;P61586;P14649;P12757;P13349;P151  
72;P11532;P28356;O75182;Q8N8G2;P48443;P50222}  
1059 Pathogen[ P03363] interacts with 16 human  
partners:{Q8N8G2;Q99592;P14649;P12757;P28356;P53805;Q9NR56;P13349;P28358;P11532;P237  
59;P50222;P23409;P60660;P15172;O75182}  
1060 [Cluster 97]GO:0016071+P biological\_process [name] mRNA metabolic process [def]  
"The chemical reactions and pathways involving mRNA, messenger RNA, which is responsible  
for carrying the coded genetic 'message', transcribed from DNA, to sites of protein  
assembly at the ribosomes." [ISBN  
1061 Pathogen[ Q2Q067] interacts with 203 human  
partners:{P23588;Q92900;P61313;P30153;Q99460;P62701;O75832;P48556;O15234;P47914;Q8IU  
60;P31749;P40306;P62312;Q9Y333;P46779;Q9NQT4;P55036;Q9UPR3;P63104;P39687;Q96LI5;Q025  
43;P61326;O00231;Q8IZH2;P26373;O00233;P62750;Q8IZD4;P63151;P62273;P51665;Q9Y2L1;Q9NP  
I6;A5YKK6;P15880;P40429;Q9H074;Q06265;P28072;Q96F86;P46782;P35268;Q01105;P22090;P467  
78;Q9UK45;Q96C86;Q13868;P38919;Q14103;A5LHX3;P62888;P32969;P62277;P62241;Q13200;P622  
44;P05387;Q92945;P25787;P62861;P08107;P42766;Q06323;P67775;P04792;P05386;O75175;Q9Y3  
B2;Q9NPD3;Q86TB9;Q9BZI7;Q92973;Q14240;Q9UNX3;Q504Q3;P30050;P57721;P28065;O14818;P261  
96;P18077;P62891;P11142;Q9HAU5;P61927;Q5RKV6;P39023;P62081;P61247;O14980;Q9UIV1;P612  
54;P62249;P62280;Q14997;P83731;P60900;Q9UL46;P61289;P62263;Q86US8;Q9UKZ1;P60866;P629  
06;Q15024;O95628;Q9H0W8;Q02878;P46777;P28062;P62899;P08708;Q9UNM6;P08708;Q07020;P629  
13;P25788;P62269;Q92530;Q9Y5S9;P62424;P25786;Q9UFF9;P62917;P62829;O15116;P46783;Q8IY  
D1;P62495;P36578;Q9C0C2;P62857;Q15366;Q16401;O00232;P62847;P49207;P23396;Q09161;P280  
74;P25789;Q92540;P0CG47;P63173;P18621;Q9NZN8;P31946;P52298;P20618;P0CG48;Q92600;P280  
70;P39019;P28066;P61353;Q04637;Q99436;Q8TAA3;P62266;P42677;Q9Y3U8;P63220;P62841;P838  
81;P62987;P26651;O43242;P06730;O95453;P49721;P49720;P50914;P46776;Q8ND04;P11940;P356  
58;P62854;P62753;P05388;P60842;P18124;P62851;Q9ULM6;P25398;Q15759;Q9Y4Z0;P62910;Q929  
01;P46781;P62310;P27635;Q07352;Q96B26;P53567;P61513;Q9Y4Y9;P62945;Q9H1J1;Q6P2E9;P629  
79}  
1062 Pathogen[ P0C214] interacts with 204 human  
partners:{P62861;Q9BZI7;P84098;Q14997;P53567;P61247;P51665;P62312;O15234;Q9NZN8;O151  
16;P25789;Q09161;Q96C86;P26196;P15880;P55036;P62081;P42766;P62913;P22090;Q15024;Q929  
01;P28062;P62249;Q6P2E9;P62899;O95453;A5LHX3;P62854;P28065;P39019;P62263;P60842;P577  
21;P30153;Q9NPI6;Q9Y5S9;P62273;O95628;P23396;Q92900;P18077;P05388;Q9Y2L1;P62847;P235  
88;O14818;Q9C0C2;P62829;Q504Q3;P26373;P27635;O43242;Q9Y3B2;P46778;P04792;P61513;P838  
81;P48556;P40306;P62701;P49207;P11940;P63220;Q5RKV6;Q92540;P08865;P32969;Q02543;Q132  
00;P62266;Q9HAU5;Q9Y4Z0;Q9UK45;O00232;Q15366;Q01105;P62277;Q9UIV1;Q9Y4Y9;P50914;Q8IZ  
H2;P46779;Q07352;Q9Y333;Q99460;P52298;P28066;O75832;P40429;Q9ULM6;Q86US8;P47914;P631  
73;O14980;Q9NPD3;P46783;Q14103;P62310;P49720;P28074;P62280;P61326;A5YKK6;Q9UNX3;P0CG  
48;Q9UL46;P38919;Q9Y3U8;Q9H074;P30050;P62753;P62910;Q8ND04;P62891;P35658;Q14240;P631  
51;Q9UPR3;P25788;P62495;P62269;Q9UNM6;P67775;Q86TB9;O00231;Q06323;P46781;Q13868;P257  
86;Q8IYD1;Q8IU60;P61254;P28072;P62841;Q8TAA3;Q15287;P62244;P26651;P62987;Q04637;Q070  
20;P42677;P62945;P46776;Q99436;Q15759;P0CG47;P25787;P62241;P46777;P83731;Q9UKZ1;Q929  
73;Q9UFF9;P35268;P62424;P60866;P62857;Q92600;P35998;P60900;P61313;P08708;Q92945;P053  
87;P25398;O00233;Q9H0W8;Q96LI5;P61927;P26196;P31946;P62750;P62979;P05386;Q06265;P08107;P628  
51;P06730;Q15365;P46782;O75175;P39687;Q92530;Q15008;P18124;Q9NQT4;Q96F86;P28070;Q96B  
26;P31749;P61353;P36578;P20618;P49721;Q16401;P18621;P17980;P62906;Q8IZD4;P11142;Q028



- 78;Q9H1J1}  
1063 Pathogen[ P03346] interacts with 208 human  
partners: {P08107;Q9UPR3;Q9Y5S9;Q9BZI7;P25787;P05387;P46779;Q5RKV6;O15234;P28070;Q504  
Q3;Q9ULM6;Q09161;P63173;P25789;P55036;P06730;P62917;P62249;P62913;Q15366;P62861;Q9NP  
I6;P62277;Q02878;Q99460;Q86US8;Q9UIV1;Q96C86;O75175;Q9UL46;P62280;P39023;Q9H9A5;P629  
87;P61927;P28072;Q9UKZ1;P62857;P25788;P28074;P49721;Q9Y4Y9;Q01105;O95628;O148  
18;P46778;P49207;Q99436;P0CG48;P62266;Q16401;A5LHX3;P61254;P38919;P62495;P11142;P280  
62;P11940;P62424;P62273;P67775;P83731;Q8ND04;P60866;Q92945;Q96B26;P20618;P62899;P356  
58;P52298;O00232;P60842;Q9Y3B2;A5YKK6;Q9Y333;P35268;P62891;P08708;Q8IZH2;Q15024;Q9NZ  
N8;O95453;P30153;Q14103;O75832;P46782;P61353;O00233;Q8IU60;P62854;Q9Y3U8;Q86TB9;P479  
14;O14980;Q92973;P08865;P31749;P61313;Q9H074;P25398;Q9Y4Z0;P49720;P28065;P61513;Q6P2  
E9;P05388;P62269;P60900;Q02543;P42766;P62081;Q9Y2L1;P25786;P61247;O00231;Q14240;P186  
21;Q8IYD1;P46781;P61326;Q9HAU5;P39687;P84098;Q9NQT5;P15880;O15116;Q92540;Q07352;P612  
89;P50914;Q9COC2;P62829;P62979;P28066;Q9UNM6;P39019;P23588;P23396;P42677;Q15287;P627  
50;P31946;P62701;Q8TAA3;P30050;P63104;Q15759;P62910;P0CG47;P36578;P26196;P62847;Q149  
97;Q13200;P48556;P62851;Q9H0W8;P22090;Q04637;P53567;P51665;Q8IZD4;P46777;Q06265;Q9UF  
F9;Q07020;P62263;P62841;P83881;Q06323;P26651;P05386;Q92900;P18077;P46776;P62241;Q925  
30;Q9NQT4;P62312;P62753;Q9NPD3;Q96F86;Q96LI5;O43242;P62945;P62310;Q9UK45;P04792;Q153  
65;Q92901;P32969;P26373;P18124;P40306;P40429;Q13868;P27635;P46783;P62906;Q92600;P631  
51;P62244;P62888;Q9H1J1;P57721;P63220}  
1064 Pathogen[ Q85601] interacts with 202 human  
partners: {P46783;P32969;P28066;Q9BZI7;Q9UNM6;P61513;P60900;Q5RKV6;P26373;O15234;P628  
57;Q6P2E9;P62244;P63104;P62913;P08107;P55036;P31946;Q9NPD3;P62854;P31749;P62081;Q9NP  
I6;P61353;P62891;P46776;P18077;P25787;P61313;P05388;P63151;P62495;P61289;P06730;Q9H0  
W8;Q14240;Q92540;Q9UKZ1;P63173;P25788;P53567;P23588;P39687;Q14103;O15116;Q01105;P233  
96;P62273;Q07352;P46778;P62829;O75832;P30050;P62753;Q13868;P27635;P61326;Q15287;Q046  
37;P15880;P83881;Q07020;P30153;P39019;Q9UIV1;Q9Y3U8;P62701;P62241;P62424;P0CG48;P837  
31;Q9NZN8;P62899;Q9UFF9;P62945;Q9UK45;Q92600;Q504Q3;P62263;Q9Y2L1;P62861;Q02878;Q091  
61;Q8IZH2;Q86TB9;P39023;P38919;P61254;Q96C86;P26651;P25789;O00233;P49207;P11940;P206  
18;P62910;Q96LI5;P62310;P62249;P62280;Q9HAU5;P47914;P84098;P40306;P08708;Q92973;Q9Y4  
Z0;Q9NQT4;P49720;Q9Y3B2;A5YKK6;O95628;O95453;P42766;P28062;P11142;P49721;P62269;P623  
12;Q15024;P25786;Q8IZD4;Q9ULM6;P18621;Q8IYD1;Q8ND04;P05387;P28072;Q9UNX3;P60842;Q132  
00;P62277;Q9H074;Q9COC2;P28065;P35268;Q14980;P67775;Q06265;P62979;Q99436;P62847;P280  
70;P35658;P26196;Q86US8;P42677;P63220;Q8TAA3;Q9UL46;Q99460;O00231;Q15759;P0CG47;Q9UP  
R3;P64782;P04792;P48556;P46779;P62750;P62851;Q92945;P62841;P28074;Q96F86;P52298;Q925  
30;P62987;P22090;Q9Y333;Q15365;A5LHX3;P61927;P57721;P36578;Q06323;P05386;Q92900;O751  
75;P08865;P61247;O14818;Q96B26;P46777;P62917;Q16401;Q92901;Q15366;P18124;P46781;P253  
98;P60866;Q9Y5S9;Q02543;P62906;P50914;P62266;Q8IU60;P40429;P62888;Q9H1J1;Q9Y4Y9}  
1065 Pathogen[ P14079] interacts with 204 human  
partners: {Q9Y3U8;P27635;P84098;P46779;P28065;Q99436;Q9Y333;Q01105;P62333;O95628;P263  
73;Q15287;P48556;P60842;Q9Y3B2;P23396;Q8IZD4;P11142;P0CG48;P40429;Q92600;P06730;P577  
21;P18621;P83881;Q9H0W8;P53567;Q14103;Q8IU60;Q9UNX3;P46781;P83731;P61513;P62847;Q150  
24;P40306;Q9UK45;P62753;P52298;P55036;P35658;Q9NPI6;P28074;P39023;Q9H1J1;O00232;P622  
73;Q9Y5S9;P25398;Q9UKZ1;P62495;Q86TB9;Q96LI5;Q92540;P18077;P49720;O00487;Q9NQT4;P257  
87;Q13868;O75832;P46783;Q86US8;Q9NPD3;P61254;P50914;Q96C86;A5LHX3;Q15116;Q9H074;P623  
12;P62979;O00233;Q6P2E9;P62841;P18124;Q14240;P35998;A5YKK6;P42766;P61289;O95453;P631  
51;P62266;P46782;P62987;P62241;P51665;Q8IYD1;P20618;P23588;P32969;P63104;P22090;P628  
29;Q8TAA3;P60866;P62854;Q07020;P39019;Q9COC2;P63220;P61326;Q8IZH2;Q14997;P49207;P622  
44;P28062;P60900;P62263;Q02543;P62424;Q92901;P62277;Q9BZI7;P11940;P62750;P62910;P631  
73;Q9Y4Z0;P26196;P31946;Q8ND04;Q5RKV6;Q15759;P46776;Q96F86;P08107;Q92945;Q9UNM6;P087  
08;Q92973;Q99460;P36578;O75175;Q9UFF9;O14818;Q15366;P49721;P62906;Q9HAU5;Q9Y2L1;Q925  
30;P47914;P62280;P62310;P62899;Q15365;P61353;P62081;P62945;Q9UIV1;P46777;P42677;P300  
50;P15880;Q06323;P62891;P62191;Q9H9A5;Q92900;Q96B26;P62888;P08865;Q9UPR3;P61927;P629  
17;Q15008;Q9ULM6;P30153;P46778;P62249;P43686;O43242;P25788;Q9NZN8;O00231;P05386;P280  
66;P35268;Q9UL46;P04792;P62913;P05387;P61247;P0CG47;Q9Y4Y9;P62269;P62701;Q504Q3;Q062  
65;P61313;O15234;Q16401;P17980;P62851;Q07352;P28072;P39687;Q09161;P05388;Q04637;P628  
57;P62861}  
1066 Pathogen[ P03383] interacts with 197 human  
partners: {P08107;P42766;P36578;Q06265;P05388;P62266;P39019;P26373;O15234;Q9Y2L1;Q152  
87;Q8ND04;P62913;P62945;Q01105;P55036;Q15366;P62854;P40429;P62987;P62891;P25398;P622  
80;Q07020;Q8IU60;P62312;P25789;P62750;P60900;P05387;P62249;P62888;P62899;P31946;P619  
27;Q9H0W8;P46777;Q9Y5S9;P46779;P49207;P31749;P83731;P62424;P40306;O00233;P18124;P467  
78;Q92901;P62753;P61326;P42677;P61247;P38919;Q9Y4Y9;P49721;Q06323;P83881;Q9UFF9;P301  
53;P47914;P04792;Q9COC2;Q14997;P67775;P62196;P611940;P62917;P62273;Q07352;Q9UNX3;P206  
18;P30050;Q9Y3B2;P84098;P32969;Q09161;O95628;Q9UPR3;O75832;P62277;P18077;P23588;P067  
30;P63173;P62081;P62310;Q92945;P39687;P63104;Q9HAU5;Q92973;P61313;O14980;P08865;Q9NP  
D3;P62851;P62495;Q86US8;Q9NQT4;Q9NPI6;P46782;Q14103;A5YKK6;Q9UL46;P62269;P57721;Q9UN  
M6;P63220;Q02543;P62244;Q02878;Q9Y333;Q9UIV1;P25786;Q99460;Q15759;Q86TB9;Q8IYD1;P111  
42;Q92600;P28072;Q96B26;P62910;Q15365;P27635;Q13200;Q9ULM6;Q9H074;P28065;Q8IZD4;P628  
57;P28066;P26651;P52298;P35658;P62906;Q9Y4Z0;P46783;Q9NZN8;Q9Y3U8;P60866;Q04637;Q9UK  
45;Q5RKV6;Q96C86;P61254;Q16401;P62979;O00231;P0CG47;P62241;P46781;P39023;Q9UKZ1;P535  
67;P0CG48;P28074;P62841;Q96F86;Q92530;P49720;Q8TAA3;P61289;P22090;Q92540;P62701;P628  
29;O15116;P62263;P28062;P62847;P35268;P05386;P50914;O95453;P48556;O14818;O75175;Q929  
00;P63861;Q13868;Q99436;P18621;Q96LI5;P46776;P15880;P23396;Q15024;P28070;P61513;P257  
87;P08708;P25788;Q9BZI7;Q9H1J1;P61353;Q6P2E9}  
1067 Pathogen[ P03410] interacts with 207 human

- partners: {Q96LI5;Q92540;P62861;P05386;Q8IU60;P28070;Q9Y2L1;Q92945;Q02543;P61247;P62241;P62829;P49207;P26373;Q9NZN8;P55036;Q9Y4Y9;P61513;P0CG48;Q9UFF9;P61326;Q14103;P62899;O15234;Q95628;P62244;P62913;P25786;Q02878;Q15008;Q92901;Q92900;Q16401;P11940;P15880;P46777;P46776;P62841;P30050;Q15287;P60900;P62310;P05388;Q14997;P06730;Q9UML6;Q9UPR3;P35998;Q9NPI6;P46781;Q99460;P18124;Q9Y5S9;Q06265;P53567;O00233;Q9C0C2;Q5RKV6;Q15365;Q9Y333;Q00232;P62269;Q07020;Q13868;P57721;P63220;P62910;P62847;P62906;P11142;P39687;Q8TAA3;P31749;P04792;P23396;P18621;P48556;P49721;P62266;Q15366;P62249;Q01105;P63151;P63173;P50914;Q9HAU5;P62280;A5LHX3;P22090;P26651;P61313;Q9UIV1;P62979;Q9H1J1;Q9HA5;Q99436;P62701;Q9BZI7;P62750;Q9H074;P08865;P40306;Q9UNX3;Q06323;P62277;Q8IZH2;P36578;P18077;Q8IZD4;P25398;Q96B26;Q13200;Q96F86;P25787;P61927;P84098;P62854;Q95453;Q6P2E9;P62273;P35658;P08107;P52298;P62081;P46783;P62495;Q9UKZ1;Q92973;Q15024;Q9Y3U8;P28062;P51665;P08708;P46782;P32969;O14818;P60842;O75175;P38919;Q9NQT4;O00231;Q8ND04;Q9UNM6;P46779;Q86US8;P63104;P27635;P25789;P49720;Q8IYD1;Q9Y4Z0;P30153;P62987;Q86TB9;P62857;P62263;P62424;P62888;P61254;Q09161;P46778;Q92600;P28072;P62945;P05387;Q9NPD3;P42766;O15116;P39019;P62312;P47914;A5YKK6;Q9H0W8;P40429;Q04637;P39023;P25788;Q96C86;P62917;P62851;P67775;P83731;P28066;P35268;Q504Q3;P61353;Q9UK45;P62891;P28065;O43242;P0CG47;Q07352;P62753;P23588;P17980;P31946;Q05832;O14980;P20618;Q14240;Q9UL46;P28074;P61289;P83881;P60866;P42677;Q9Y3B2}
- 1068 Pathogen[ P14075] interacts with 196 human partners: {O95453;Q6P2E9;P42766;Q15366;P49207;O15234;P62857;P46781;P63220;P32969;Q9UK45;Q09161;P62495;P55036;P25788;P42677;P62913;Q92900;P22090;P11142;Q02878;P28066;P62277;Q9UPR3;P62851;Q06323;O75832;Q15759;Q14103;Q9UML6;P23588;P08865;Q8TAA3;Q9UKZ1;Q9NPD3;P60900;P62244;P53567;P61326;O00233;P08708;Q9UL46;Q9Y4Z0;P26196;P49720;P61254;P46778;P26651;Q92600;Q92945;Q92973;P05388;P83881;P46777;Q9Y3U8;P04792;P62249;P39687;O75175;Q9H074;Q13200;P48556;P06730;Q16401;Q9NPI6;P62081;P62750;P18621;Q96LI5;Q8IU60;P35658;Q9NZN8;Q01105;Q02543;P28070;P18124;Q9UNX3;P25398;P49721;Q9Y2L1;Q13868;P62312;O00231;Q92530;Q9NQT4;P11940;O14980;P63173;Q15365;Q95628;P30050;P31749;P57721;P0CG48;Q86US8;Q8IZD4;P62979;P83731;P84098;P28062;O15116;P28074;P61247;P62753;P46782;P62891;P62861;P28065;P18077;P46779;P62917;P39023;Q15287;Q04637;P50914;P62269;P62847;P62910;P62273;Q86TB9;Q5RKV6;P40429;P23396;P62241;P25786;P15880;O14818;P62987;Q8IYD1;P63104;Q9HAU5;P62872;Q96B26;P62841;Q9Y333;P36578;P62266;Q07352;P67775;P30153;Q14997;P61513;P61313;P27635;P62888;Q9UFF9;Q92901;P0CG47;P25787;P08107;Q9Y5S9;P35268;Q96C86;P62945;P46776;Q9H0W8;Q15024;P31946;P20618;P46783;P62701;P62899;Q9C0C2;P47914;Q9UNM6;P62906;P38919;Q9Y4Y9;Q9UIV1;P61289;P05386;P40306;P61353;P39019;P62424;Q99436;Q92540;A5YKK6;Q06265;P62851;P62280;Q9Y3B2;Q96F86;Q8ND04;Q07020;P62263;P62854;P60866;P26373;P05387;P62310;P52298;P25789;Q9BZI7;Q9H1J1;P61927}
- 1069 Pathogen[ P0C206] interacts with 205 human partners: {P61289;Q15287;P40429;Q9UFF9;P61313;P53567;Q99436;P28062;Q9UNM6;P0CG48;Q9H074;Q14103;P27635;O75832;Q9BZI7;Q504Q3;Q15365;P18124;P39687;Q86TB9;P52298;Q95453;P31749;P62854;P40306;P28065;Q14997;P61326;P49207;P26651;Q8IZH2;Q96C86;P55036;P62081;Q09161;P30050;P25786;P30153;P25788;Q9NPD3;P62241;Q5RKV6;P62244;P25787;P50914;Q13868;Q9NZN8;P08865;Q9UIV1;P62750;Q06323;P18621;Q96LI5;P46781;P62266;Q02543;P49720;Q07020;P83881;Q8IYD1;P46778;P26196;O75175;P63151;P62263;O00232;P62273;Q9NPI6;P60900;Q02878;P04792;P62495;P62280;P67775;Q96B26;P62857;P62851;O43242;P62910;Q9H9A5;Q92973;Q9Y4Y9;P46782;Q95628;A5LHX3;P06730;Q9Y4Z0;P61247;P57721;P31946;P18077;P62913;P25789;P18077;P25789;Q9Y333;P61353;P62888;P63104;Q8IZD4;P36578;Q9UK45;P62861;Q86US8;Q8ND04;P35268;P23396;P39023;Q9H0W8;P20618;P32969;Q06265;Q13200;Q8TAA3;P62701;P28070;Q6P2E9;P05386;Q96F86;P22090;P84098;P62945;Q99460;P26373;P46777;P05388;P62979;Q15024;O15234;P28066;P62899;P08107;A5YKK6;P83731;Q9Y2L1;P39019;Q92901;P05387;O14818;P46783;P42766;Q9UPR3;P60866;Q14240;Q9UKZ1;Q92600;P62841;Q15366;P0CG47;Q9Y3B2;Q9C0C2;Q9Y333;P28072;Q9HAU5;P23588;P61513;Q92900;P28074;P62277;P46776;Q92530;P62906;P62312;Q04637;Q07352;P49721;P63173;Q92945;P62987;Q9NQT4;P38919;P62891;P62269;P62753;P46779;Q9UL46;P63220;P62310;P60842;Q92540;P15880;Q9UML6;P25398;P08708;Q01105;Q15759;P11940;P11142;Q8IU60;O00233;P47914;P48556;P35658;P62847;Q16401;P61254;O15116;Q9Y5S9;O00231;P42677;P62829;P62249;P62424;Q9H1J1;Q9Y3U8;P62917}
- 1070 Pathogen[ P03363] interacts with 169 human partners: {Q96B26;Q504Q3;P62913;Q9NQT4;P18621;P05386;Q9Y4Y9;Q5RKV6;Q92973;Q9Y4Z0;P62750;Q15366;P23396;P42677;P63173;P08865;P38919;P62847;P18077;P05387;Q95628;Q95453;P84098;P42766;P62249;Q92900;P53567;P05388;P36578;P62753;P62312;Q92530;Q8ND04;P62081;P62910;P61513;P46776;Q15024;A5YKK6;O14980;Q86US8;Q9Y3B2;P61254;P62273;Q6P2E9;P32969;Q92901;Q8IYD1;P46778;P61927;P31946;Q9UPR3;P62891;P61353;P61289;P08708;Q9UKZ1;P15880;P11940;Q8IZD4;Q9NZN8;Q9NPD3;P23588;P39687;P62495;P61326;O15116;P26373;Q15287;P83881;P63151;P63104;Q9UML6;P22090;Q07352;Q9Y333;P62861;P62841;Q9UNX3;Q96F86;P30050;Q9H0W8;P62829;P08107;Q14240;P46782;Q92945;P35268;Q15717;P31749;Q9C0C2;P46781;P50914;Q9HAU5;P63220;P57721;Q9Y2L1;P61313;P39019;P52298;P26196;P35658;P46779;Q02543;P46777;P62987;Q92600;Q96LI5;Q13868;P25398;Q15365;Q14103;P83731;P62851;P62280;Q9Y3U8;P62888;O75175;P62310;P60842;Q9NQT5;P26651;Q9UIV1;Q86TB9;P62244;P62277;P62906;Q92540;Q9UK45;P62266;Q9BZI7;P62945;P49207;P62241;P62424;P60866;P61247;Q9UFF9;P62899;P62857;Q02878;Q07020;P39023;Q01105;Q96C86;P30153;P62854;P62917;P18124;P40429;P67775;P27635;P06730;P62263;P04792;P47914;Q9NPI6;P62701;Q9Y5S9;Q9H074;Q8IZH2;P11142;P62269;Q8IU60;Q09161;P46783;Q04637;Q9H1J1;O15234}
- 1071 [Cluster 98]GO:0060612+P biological\_process [name] adipose tissue development [def] "The process whose specific outcome is the progression of adipose tissue over time, from its formation to the mature structure. Adipose tissue is specialized tissue that is used to store fat." [GOC
- 1072 Pathogen[ Q2Q067] interacts with 4 human partners: {Q6ZW49;Q02930;Q14865;P15336}

1073 Pathogen[ P0C214] interacts with 5 human partners:{Q02930;Q14865;P15336;Q6ZW49;P43490}

1074 Pathogen[ P03346] interacts with 4 human partners:{P15336;Q14865;Q02930;Q6ZW49}

1075 Pathogen[ Q85601] interacts with 4 human partners:{Q02930;Q14865;Q6ZW49;P15336}

1076 Pathogen[ P14079] interacts with 6 human partners:{Q9C0B1;P43490;Q14865;Q02930;P15336;Q6ZW49}

1077 Pathogen[ P03383] interacts with 3 human partners:{Q6ZW49;P15336;Q02930}

1078 Pathogen[ P03410] interacts with 6 human partners:{P43490;Q02930;Q9C0B1;Q14865;P15336;Q6ZW49}

1079 Pathogen[ P14075] interacts with 3 human partners:{Q6ZW49;P15336;Q02930}

1080 Pathogen[ P0C206] interacts with 5 human partners:{Q6ZW49;P15336;P43490;Q02930;Q14865}

1081 Pathogen[ P03363] interacts with 4 human partners:{Q14865;Q02930;P15336;Q6ZW49}

1082 [Cluster 99]GO:0009790+P biological\_process [name] embryo development [def] "The process whose specific outcome is the progression of an embryo from its formation until the end of its embryonic life stage. The end of the embryonic stage is organism-specific. For example, for mammals, the process would begin with zygote formation and end with birth. For insects, the process would begin at zygote formation and end with larval hatching. For plant zygotic embryos, this would be from zygote formation to the end of seed dormancy. For plant vegetative embryos, this would be from the initial determination of the cell or group of cells to form an embryo until the point when the embryo becomes independent of the parent plant." [GOC

1083 Pathogen[ Q2Q067] interacts with 20 human partners:{Q9UHL9;Q9UNS1;Q13829;Q53H80;Q9H9Y6;P60174;Q14669;P78545;Q08050;O43524;Q99750;Q9H8E8;O00255;Q53G26;P78347;Q6R327;Q66K89;Q96EY1;O60921;Q9Y5P3}

1084 Pathogen[ P0C214] interacts with 21 human partners:{P50440;Q9UHL9;Q9H9Y6;P46379;Q13829;Q53H80;Q99750;Q9Y5P3;O60921;Q6R327;P78347;Q9UNS1;O60264;Q53G26;Q14669;P78545;P60174;Q66K89;Q96EY1;O00255;Q9H8E8}

1085 Pathogen[ P03346] interacts with 35 human partners:{O60921;P85037;Q9UHL9;Q7RTS3;O95171;P78347;Q9P2F5;Q9UNS1;Q9H9Y6;Q53H80;P60174;Q08050;Q9H8E8;O00409;Q13829;Q66K89;Q86SE8;Q92879;O00255;O60264;Q9C0C7;P46379;Q99750;Q14669;Q12778;Q53G26;Q01167;P98177;Q9Y5P3;P78545;O00482;Q6R327;Q9H9S0;O43524;Q96EY1}

1086 Pathogen[ Q85601] interacts with 22 human partners:{Q9UHL9;P60174;Q53G26;Q86SE8;P78545;P46379;Q14669;Q9H9Y6;Q53H80;Q9H8E8;Q99750;O60921;O00255;O00482;Q08050;Q66K89;O60264;Q13829;O95171;P78347;Q96EY1;Q9UNS1}

1087 Pathogen[ P14079] interacts with 24 human partners:{Q6R327;Q53H80;Q96A33;P25705;Q9H8E8;Q15078;Q9H488;O00482;Q9Y5P3;Q66K89;Q9UHL9;O95171;O60264;P78545;Q13829;Q9P2F5;P50440;P78347;Q9UNS1;O00255;O60921;Q96EY1;Q99750;Q9H9Y6}

1088 Pathogen[ P03383] interacts with 16 human partners:{Q9UNS1;Q9UHL9;P78347;Q9H9Y6;Q9P2F5;Q66K89;O60921;Q53H80;Q9H8E8;Q9Y5P3;O00255;Q99750;P78545;Q13829;Q96EY1;Q53G26}

1089 Pathogen[ P03410] interacts with 24 human partners:{Q86SE8;Q13829;Q53G26;Q66K89;P25705;Q96A33;Q9UHL9;P78545;Q9P2F5;O95171;Q9Y5P3;Q53H80;O60921;Q6R327;Q9UNS1;Q9H8E8;P78347;O60264;Q9H488;O00255;P50440;Q99750;Q96EY1;Q9H9Y6}

1090 Pathogen[ P14075] interacts with 19 human partners:{Q9UHL9;P78545;Q08050;Q53H80;P78347;Q53G26;Q9Y5P3;O00255;Q9H8E8;Q6R327;Q99750;Q9P2F5;Q9H9Y6;Q66K89;O60921;Q9UNS1;Q13829;P50440;Q96EY1}

1091 Pathogen[ P0C206] interacts with 28 human partners:{Q9UNS1;Q96A33;Q13829;Q9UHL9;Q9C0C7;P60174;O00255;Q53G26;Q14669;O00482;P78347;Q6R327;P50440;P78545;O60921;Q9P2F5;Q86SE8;Q9Y5P3;Q08050;Q9H9S0;Q66K89;Q9H9Y6;Q96EY1;Q53H80;P46379;Q99750;O95171;O60264}

1092 Pathogen[ P03363] interacts with 29 human partners:{P46379;Q9UHL9;Q9H8E8;Q9H9Y6;Q92879;Q99750;Q7RTS3;Q66K89;Q9Y5P3;O00409;Q53G26;O60264;O43524;Q9C0C7;Q08050;Q14669;P78545;Q9UNS1;Q01167;O95171;Q13829;O60921;Q86SE8;Q96EY1;Q53H80;Q9H9S0;P78347;Q6R327;O00482}

1093 [Cluster 100]GO:0060426+P biological\_process [name] lung vasculature development [def] "The biological process whose specific outcome is the progression of a lung vasculature from an initial condition to its mature state. This process begins with the formation of the lung vasculature and ends with the mature structure. The lung vasculature is composed of the tubule structures that carry blood or lymph in the lungs." [GOC

1094 Pathogen[ Q2Q067] interacts with 2 human partners:{P41134;Q9UJM3}

1095 Pathogen[ P0C214] interacts with 2 human partners:{Q9UJM3;P41134}

1096 Pathogen[ P03346] interacts with 3 human partners:{O43680;P41134;Q9UJM3}

1097 Pathogen[ Q85601] interacts with 2 human partners:{P41134;Q9UJM3}

1098 Pathogen[ P14079] interacts with 2 human partners:{Q9UJM3;P41134}

1099 Pathogen[ P03383] interacts with 1 human partners:{Q9UJM3}

1100 Pathogen[ P03410] interacts with 2 human partners:{P41134;Q9UJM3}

1101 Pathogen[ P14075] interacts with 1 human partners:{Q9UJM3}

1102 Pathogen[ P0C206] interacts with 2 human partners:{P41134;Q9UJM3}

1103 Pathogen[ P03363] interacts with 2 human partners:{P41134;Q9UJM3}

1104 [Cluster 101]GO:0051298+P biological\_process [name] centrosome duplication [def] "The replication of a centrosome, a structure comprised of a pair of centrioles and

peri-centriolar material from which a microtubule spindle apparatus is organized." [GOC  
1105 Pathogen[ Q2Q067] interacts with 7 human  
partners:{Q9NXR1;A6NKF1;Q8TEP8;O43303;O94986;Q6UVJ0;P24941}  
1106 Pathogen[ POC214] interacts with 7 human  
partners:{O94986;Q8TEP8;O43303;P24941;A6NKF1;Q9NXR1;Q6UVJ0}  
1107 Pathogen[ P03346] interacts with 9 human  
partners:{P24941;Q969U6;Q9NXR1;Q8TEP8;A6NKF1;O94986;P51587;Q6UVJ0;O43303}  
1108 Pathogen[ Q85601] interacts with 8 human  
partners:{Q6UVJ0;O94986;O43303;A6NKF1;Q8TEP8;Q9NXR1;P24941;P51587}  
1109 Pathogen[ P14079] interacts with 7 human  
partners:{Q6UVJ0;Q8TEP8;O94986;P51587;A6NKF1;O43303;Q9NXR1}  
1110 Pathogen[ P03383] interacts with 6 human  
partners:{Q6UVJ0;O94986;O43303;A6NKF1;Q8TEP8;P24941}  
1111 Pathogen[ P03410] interacts with 9 human  
partners:{Q8TEP8;O43303;Q9NXR1;Q6UVJ0;O94986;P24941;P51587;Q969U6;A6NKF1}  
1112 Pathogen[ P14075] interacts with 6 human  
partners:{O43303;P24941;Q6UVJ0;Q8TEP8;O94986;A6NKF1}  
1113 Pathogen[ POC206] interacts with 9 human  
partners:{O94986;P51587;Q6UVJ0;Q8TEP8;A6NKF1;Q9NXR1;P24941;Q969U6;O43303}  
1114 Pathogen[ P03363] interacts with 8 human  
partners:{A6NKF1;O43303;O94986;P24941;Q8TEP8;Q969U6;Q9NXR1;Q6UVJ0}  
1115 [Cluster 102]GO:0042742+P biological\_process [name] defense response to bacterium  
[def] "Reactions triggered in response to the presence of a bacterium that act to  
protect the cell or organism." [GOC  
1116 Pathogen[ Q2Q067] interacts with 4 human partners:{P20749;Q15744;Q02556;Q9C000}  
1117 Pathogen[ POC214] interacts with 5 human  
partners:{Q9NPP4;Q99698;Q02556;P20749;Q9C000}  
1118 Pathogen[ P03346] interacts with 7 human  
partners:{Q99698;Q9NPP4;Q02556;Q15744;P20749;Q9H112;Q9C000}  
1119 Pathogen[ Q85601] interacts with 4 human partners:{Q02556;Q15744;P20749;Q99698}  
1120 Pathogen[ P14079] interacts with 33 human  
partners:{Q30KQ8;Q30KQ9;Q30KR1;A8MXU0;P15515;Q30KQ7;Q9C000;P60022;Q15744;Q7Z434;Q8N1  
04;O15263;A6NDD2;P15516;Q9H1M4;Q30KQ1;P81172;Q7Z7B8;Q8IZN7;Q4QY38;P20749;P60602;Q7Z7  
B7;Q02556;Q99698;Q9Y239;Q30KQ6;Q8NET1;Q8N688;P59861;Q30KP9;P81534;Q9NPP4}  
1121 Pathogen[ P03383] interacts with 2 human partners:{P20749;Q02556}  
1122 Pathogen[ P03410] interacts with 32 human  
partners:{Q30KP8;P20749;Q30KR1;Q7Z7B7;Q30KP9;Q4QY38;P59861;Q9Y239;Q8N688;Q7Z7B8;Q969  
E1;Q30KQ1;Q9NPP4;Q9C000;P60022;Q30KQ6;Q7Z434;Q02556;Q8IZN7;P60602;P81172;P15515;P155  
16;Q99698;Q8N104;Q5J5C9;Q30KQ9;Q15744;Q30KQ7;Q30KQ8;P81534;O15263}  
1123 Pathogen[ P14075] interacts with 4 human partners:{P15515;Q02556;P60602;P20749}  
1124 Pathogen[ POC206] interacts with 8 human  
partners:{Q9C000;Q15744;Q99698;Q02556;P15515;Q7Z7B7;P20749;P60602}  
1125 Pathogen[ P03363] interacts with 8 human  
partners:{Q9C000;Q02556;Q15744;P15515;P20749;Q9H112;Q99698;Q9NPP4}  
1126 [Cluster 103]GO:0000183+P biological\_process [name] chromatin silencing at rDNA  
[def] "Repression of transcription of ribosomal DNA by altering the structure of  
chromatin." [PMID  
1127 Pathogen[ Q2Q067] interacts with 4 human partners:{O43463;Q8IXJ6;O43159;Q9UIF9}  
1128 Pathogen[ POC214] interacts with 5 human  
partners:{O43159;O43463;Q9UIF9;O60264;Q8IXJ6}  
1129 Pathogen[ P03346] interacts with 5 human  
partners:{O43159;Q8IXJ6;O43463;O60264;Q9UIF9}  
1130 Pathogen[ Q85601] interacts with 5 human  
partners:{Q9UIF9;O43159;O43463;Q8IXJ6;O60264}  
1131 Pathogen[ P14079] interacts with 4 human partners:{Q9UIF9;O60264;Q8IXJ6;O43159}  
1132 Pathogen[ P03383] interacts with 3 human partners:{O43463;O43159;Q9UIF9}  
1133 Pathogen[ P03410] interacts with 5 human  
partners:{Q8IXJ6;O43159;Q9UIF9;O43463;O60264}  
1134 Pathogen[ P14075] interacts with 3 human partners:{Q9UIF9;O43159;O43463}  
1135 Pathogen[ POC206] interacts with 5 human  
partners:{O43159;O43463;Q9UIF9;Q8IXJ6;O60264}  
1136 Pathogen[ P03363] interacts with 4 human partners:{O60264;Q9UIF9;O43159;O43463}  
1137 [Cluster 104]GO:0007292+P biological\_process [name] female gamete generation [def]  
"Generation of the female gamete\_ specialised haploid cells produced by meiosis and  
along with a male gamete takes part in sexual reproduction." [GOC  
1138 Pathogen[ Q2Q067] interacts with 5 human  
partners:{P63167;Q14106;Q9HD36;Q93008;O95453}  
1139 Pathogen[ POC214] interacts with 5 human  
partners:{O95453;Q93008;Q9HD36;Q14106;P63167}  
1140 Pathogen[ P03346] interacts with 5 human  
partners:{Q93008;O95453;Q14106;P63167;Q9HD36}  
1141 Pathogen[ Q85601] interacts with 5 human  
partners:{Q9HD36;Q14106;Q93008;O95453;P63167}  
1142 Pathogen[ P14079] interacts with 5 human  
partners:{P01225;Q14106;O95453;Q9HD36;P63167}  
1143 Pathogen[ P03383] interacts with 3 human partners:{Q14106;O95453;P63167}

1144 Pathogen[ P03410] interacts with 4 human partners:{Q9HD36;P63167;O95453;Q14106}  
1145 Pathogen[ P14075] interacts with 3 human partners:{O95453;Q14106;P63167}  
1146 Pathogen[ P0C206] interacts with 5 human  
partners:{O95453;Q9HD36;Q93008;P63167;Q14106}  
1147 Pathogen[ P03363] interacts with 5 human  
partners:{P63167;O95453;Q9HD36;Q14106;Q93008}  
1148 [Cluster 105]GO:0043981+P biological\_process [name] histone H4-K5 acetylation  
[def] "The modification of histone H4 by the addition of an acetyl group to a lysine  
residue at position 5 of the histone." [GOC  
1149 Pathogen[ Q2Q067] interacts with 6 human  
partners:{Q6IE81;Q9HAF1;Q96EZ8;Q9UNL4;P51610;Q7Z3B3}  
1150 Pathogen[ P0C214] interacts with 6 human  
partners:{P51610;Q9UNL4;Q9HAF1;O95251;Q6IE81;Q96EZ8}  
1151 Pathogen[ P03346] interacts with 8 human  
partners:{Q9UNL4;Q96EZ8;P51610;Q7Z3B3;O95251;Q6IE81;Q9H7Z6;Q9HAF1}  
1152 Pathogen[ Q85601] interacts with 7 human  
partners:{O95251;Q9HAF1;Q9H7Z6;Q9UNL4;P51610;Q6IE81;Q96EZ8}  
1153 Pathogen[ P14079] interacts with 9 human  
partners:{O95251;Q9UNL4;Q9HAF1;Q6IE81;P51610;Q7Z3B3;Q9P2N6;Q96EZ8;Q9H9L4}  
1154 Pathogen[ P03383] interacts with 6 human  
partners:{O95251;Q9UNL4;P51610;Q9HAF1;Q6IE81;Q96EZ8}  
1155 Pathogen[ P03410] interacts with 8 human  
partners:{Q9P2N6;P51610;O95251;Q9UNL4;Q9H9L4;Q96EZ8;Q7Z3B3;Q6IE81}  
1156 Pathogen[ P14075] interacts with 7 human  
partners:{P51610;Q7Z3B3;Q96EZ8;Q6IE81;Q9HAF1;O95251;Q9UNL4}  
1157 Pathogen[ P0C206] interacts with 10 human  
partners:{O95251;Q9H9L4;Q96EZ8;P51610;Q9HAF1;Q6IE81;Q9P2N6;Q7Z3B3;Q9UNL4;Q9H7Z6}  
1158 Pathogen[ P03363] interacts with 7 human  
partners:{Q6IE81;Q9HAF1;Q9UNL4;Q7Z3B3;Q96EZ8;O95251;P51610}  
1159 [Cluster 106]GO:0035019+P biological\_process [name] somatic stem cell maintenance  
[def] "The process in which an organism retains a population of somatic stem cells,  
undifferentiated cells in the embryo or adult which can undergo unlimited division and  
give rise to cell types of the body other than those of the germ-line." [GOC  
1160 Pathogen[ Q2Q067] interacts with 15 human  
partners:{Q13118;Q9Y6X8;O00512;Q9HAZ2;P46937;Q86UU0;Q92754;P23769;P12755;O43679;P427  
71;Q86U70;Q01860;Q15906;P17947}  
1161 Pathogen[ P0C214] interacts with 14 human  
partners:{P23769;P46937;P17947;Q15906;Q92754;Q86U70;Q9HAZ2;O43679;P42771;Q9Y6X8;P127  
55;Q86UU0;O00512;Q01860}  
1162 Pathogen[ P03346] interacts with 20 human  
partners:{Q06945;P46937;Q86U70;Q99626;P23769;Q15906;P42771;Q92754;Q01860;Q92794;Q9HC  
S4;Q13118;O00512;O43679;Q9Y6X8;P17947;Q99929;Q86UU0;Q9HAZ2;Q9H9S0}  
1163 Pathogen[ Q85601] interacts with 16 human  
partners:{Q92754;Q86U70;P23769;Q86UU0;P12755;O43679;Q9Y6X8;P42771;O00512;Q13118;Q159  
06;P17947;P46937;Q9HCS4;Q01860;Q9HAZ2}  
1164 Pathogen[ P14079] interacts with 15 human  
partners:{Q9HAZ2;P12755;Q13118;O43679;Q86U70;P46937;Q15906;Q01860;O00512;Q86UU0;Q927  
54;Q9Y6X8;P23769;P49917;P42771}  
1165 Pathogen[ P03383] interacts with 13 human  
partners:{Q86U70;P23769;Q01860;Q86UU0;Q9HAZ2;O43679;Q9Y6X8;O00512;P42771;Q92754;Q159  
06;P46937;P17947}  
1166 Pathogen[ P03410] interacts with 16 human  
partners:{P42771;O00512;Q9HAZ2;P12755;P17947;Q01860;O43679;Q15906;Q86U70;Q9Y6X8;P469  
37;Q13118;P23769;Q9HCS4;Q86UU0;Q92754}  
1167 Pathogen[ P14075] interacts with 13 human  
partners:{Q86UU0;Q86U70;O00512;Q15906;P23769;Q01860;P42771;Q92754;Q9HAZ2;O43679;Q9Y6  
X8;P17947;P46937}  
1168 Pathogen[ P0C206] interacts with 18 human  
partners:{O43679;P46937;Q9HAZ2;O00512;Q86UU0;Q01860;P42771;Q9HCS4;Q9Y6X8;P12755;Q927  
54;P49917;Q15906;P17947;P23769;Q9H9S0;Q86U70;Q13118}  
1169 Pathogen[ P03363] interacts with 17 human  
partners:{Q86U70;Q99626;Q99929;P17947;Q9Y6X8;O43679;Q9HCS4;P46937;O00512;Q86UU0;Q9H9  
S0;Q01860;P42771;Q15906;Q13118;Q92754;Q9HAZ2}  
1170 [Cluster 107]GO:0051346+P biological\_process [name] negative regulation of hydrolase  
activity [def] "Any process that stops or reduces the rate of hydrolase activity, the  
catalysis of the hydrolysis of various bonds." [GOC  
1171 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9UII2;P29474}  
1172 Pathogen[ P0C214] interacts with 2 human partners:{P29474;Q9UII2}  
1173 Pathogen[ P03346] interacts with 2 human partners:{P29474;Q9UII2}  
1174 Pathogen[ Q85601] interacts with 2 human partners:{Q9UII2;P29474}  
1175 Pathogen[ P14079] interacts with 1 human partners:{Q9UII2}  
1176 Pathogen[ P03383] interacts with 2 human partners:{P29474;Q9UII2}  
1177 Pathogen[ P03410] interacts with 2 human partners:{Q9UII2;P29474}  
1178 Pathogen[ P14075] interacts with 2 human partners:{P29474;Q9UII2}  
1179 Pathogen[ P0C206] interacts with 2 human partners:{P29474;Q9UII2}  
1180 Pathogen[ P03363] interacts with 1 human partners:{P29474}

- 1181 [Cluster 108]GO:0051403+P biological\_process [name] stress-activated MAPK cascade [def] "A series of molecular signals in which a stress-activated MAP kinase cascade relays one or more of the signals\_ MAP kinase cascades involve at least three protein kinase activities and culminate in the phosphorylation and activation of a MAP kinase." [GOC]
- 1182 Pathogen[ Q2Q067] interacts with 19 human partners: {P01100;Q9NYJ8;P02511;Q8N5C8;O75582;Q9Y6K9;Q9BSQ5;P19419;P15336;P0CG47;P45984;P0CG48;O43318;P62987;Q15759;Q16829;Q02078;Q15750;P62979}
- 1183 Pathogen[ P0C214] interacts with 22 human partners: {Q9Y6K9;P15336;P02511;P01100;Q9BSQ5;P19419;O43318;Q02078;Q8N5C8;P0CG48;Q16829;O75582;P62987;Q15750;P05412;Q15759;P0CG47;P45984;P16220;P62979;Q9NYJ8;P18846}
- 1184 Pathogen[ P03346] interacts with 24 human partners: {Q9Y6K9;P05412;P45984;Q02078;P16220;P15336;P62987;P19419;P0CG48;Q8N5C8;Q9BW F3;P02511;Q9NYJ8;O75582;Q15750;Q16829;P62979;Q15759;P0CG47;P45985;O43318;P01100;P18846;Q9BSQ5}
- 1185 Pathogen[ Q85601] interacts with 22 human partners: {Q02078;Q15750;Q9NYJ8;P19419;Q16829;P18846;P0CG48;Q8N5C8;P01100;Q9Y6K9;P16220;P02511;P05412;O75582;P62979;Q15759;P0CG47;P45984;P62987;P15336;O43318;Q9BSQ5}
- 1186 Pathogen[ P14079] interacts with 27 human partners: {Q8N5C8;Q02078;P0CG48;Q06413;O43187;P53779;P52564;O75582;Q16829;P02511;Q15750;P62979;P62987;P45984;P45983;Q9BSQ5;Q16644;Q15759;Q9Y6K9;P45985;P15336;Q13164;P05412;P0CG47;Q9Y239;P01100;P19419}
- 1187 Pathogen[ P03383] interacts with 21 human partners: {O75582;P16220;Q9Y6K9;P62987;P19419;P02511;P18846;O43318;Q8N5C8;Q15759;P01100;P62979;P0CG47;P45984;P0CG48;P15336;Q9NYJ8;Q02078;Q9BSQ5;Q15750;P05412}
- 1188 Pathogen[ P03410] interacts with 25 human partners: {P0CG48;Q9Y239;P19419;Q15750;O75582;O43187;P62979;P01100;P18846;O43318;Q16829;P45985;Q9NYJ8;P02511;Q8N5C8;P16220;P05412;P45984;P62987;P53779;Q02078;Q9Y6K9;P15336;P0CG47;Q9BSQ5}
- 1189 Pathogen[ P14075] interacts with 21 human partners: {Q15750;P05412;Q15759;O75582;P19419;P15336;Q8N5C8;P0CG48;P62979;O43318;P62987;P02511;Q02078;P01100;P0CG47;Q9BSQ5;P16220;Q9Y6K9;P18846;P45984;Q9NYJ8}
- 1190 Pathogen[ P0C206] interacts with 23 human partners: {P0CG48;Q9Y6K9;Q02078;P16220;Q8N5C8;O75582;P45984;P05412;Q9BSQ5;P19419;O43318;P15336;P18846;Q16829;P01100;P62979;Q9NYJ8;P45985;P0CG47;Q15750;P62987;P02511;Q15759}
- 1191 Pathogen[ P03363] interacts with 16 human partners: {Q9NYJ8;P16220;Q9Y6K9;P19419;O43318;Q9BSQ5;Q9BWF3;Q15750;P15336;Q16829;P18846;P62987;P05412;Q8N5C8;P01100;Q02078}
- 1192 [Cluster 109]GO:0051092+P biological\_process [name] positive regulation of NF-kappaB transcription factor activity [def] "Any process that activates or increases the frequency, rate or extent of activity of the transcription factor NF-kappaB." [GOC]
- 1193 Pathogen[ Q2Q067] interacts with 32 human partners: {Q8IUD2;Q8IUC6;Q9NYB0;Q9UDY8;Q15653;Q13077;Q04206;Q12933;Q9NYJ8;O95999;P06748;Q86UE4;Q8N5C8;O75582;P60900;O14862;Q9Y6K9;P61088;P19838;P25963;P0CG47;O14920;Q00653;P0CG48;O43318;P62987;Q13404;O00463;O15111;P32929;Q15750;P62979}
- 1194 Pathogen[ P0C214] interacts with 33 human partners: {Q00653;O15111;Q9NPP4;Q9Y6K9;P19838;Q8IUC6;P06748;Q9UDY8;Q04206;Q13404;Q15653;O43318;Q86UE4;P32929;Q8N5C8;P0CG48;O95999;Q12933;P25963;O75582;P62987;Q15750;Q9NYB0;P10909;P0CG47;O14862;P60900;O00463;P62979;Q8IUD2;O14920;Q9NYJ8;P61088}
- 1195 Pathogen[ P03346] interacts with 36 human partners: {Q9Y6K9;Q13077;O00463;O15111;Q86UE4;P06748;P62987;P25963;Q9BYM8;Q15653;Q9UDY8;P0CG48;Q8IUD2;Q04206;Q13404;O95999;Q8N5C8;P61088;Q96EP0;Q9NPP4;Q9NYJ8;P60900;P32929;Q9NYB0;O75582;Q15750;P62979;Q8IUC6;P0CG47;P19838;O14920;O43318;O14862;P58546;Q00653;Q8N9B4}
- 1196 Pathogen[ Q85601] interacts with 32 human partners: {P60900;Q15750;Q9NYJ8;Q8IUC6;O00463;O15111;Q9UDY8;P0CG48;Q15653;Q13404;Q8N5C8;Q9Y6K9;Q12933;O14920;Q04206;O14862;O75582;P06748;Q86UE4;P62979;P0CG47;Q13077;P62987;Q00653;Q9NYB0;O95999;O43318;P61088;P19838;Q8IUD2;P32929;P25963}
- 1197 Pathogen[ P14079] interacts with 30 human partners: {Q9BXL7;O00463;Q8N5C8;P0CG48;O43187;O95999;O75582;Q8IUC6;Q13404;Q96EP0;Q15750;P10909;P62979;Q8IUD2;P62987;Q13077;P60900;Q9Y6K9;Q9BYM8;Q9NYB0;P32929;Q86UE4;P06748;O14862;Q12933;P0CG47;Q9Y239;Q99836;Q9NPP4;Q15653}
- 1198 Pathogen[ P03383] interacts with 28 human partners: {O75582;O14862;P06748;Q9Y6K9;P62987;Q8IUC6;Q00653;Q86UE4;P60900;Q9NYB0;O14920;O15111;Q15653;O43318;Q8N5C8;P61088;Q12933;Q13404;P25963;O95999;P62979;P0CG47;Q04206;P0CG48;Q8IUD2;Q9NYJ8;P19838;Q15750}
- 1199 Pathogen[ P03410] interacts with 36 human partners: {Q04206;P19838;P0CG48;O14920;Q9Y239;Q13077;P60900;O15111;Q15750;O75582;O14862;P32929;O43187;Q15653;Q9NPP4;P06748;P61088;P62979;O43318;Q8IUD2;O95999;Q9BXL7;O00463;Q9NYJ8;Q86UE4;Q8N5C8;Q12933;P62987;Q8IUC6;Q00653;Q13404;Q9Y6K9;P25963;Q9NYB0;P0CG47;P10909}
- 1200 Pathogen[ P14075] interacts with 28 human partners: {O15111;Q04206;Q15750;Q86UE4;P60900;O75582;P61088;Q8IUD2;Q15653;P25963;Q8N5C8;O14920;P0CG48;P62979;Q12933;O14862;O43318;P62987;P06748;O95999;Q8IUC6;P0CG47;Q13404;P19838;Q00653;Q9Y6K9;Q9NYB0;Q9NYJ8}

1201 Pathogen[ P0C206] interacts with 35 human partners: {P0C206;Q13077;O14920;Q9Y6K9;Q9UDY8;O14862;Q8N5C8;O75582;O95999;P25963;O43318;Q15653;P60900;Q8IUD2;Q12933;P61088;P19838;Q96EP0;Q04206;P32929;O15111;P62979;P10909;Q9NYJ8;O00463;P0CG47;Q9NYB0;Q8IUC6;Q00653;Q86UE4;Q15750;P06748;P62987;Q13404;Q9BYM8}

1202 Pathogen[ P03363] interacts with 25 human partners: {O14920;Q04206;Q96EP0;P25963;O15111;Q9NYJ8;Q9NYB0;Q12933;O00463;Q9Y6K9;O43318;Q86UE4;P06748;Q15750;P61088;Q15653;Q00653;Q13077;P62987;P19838;O14862;Q13404;Q9NP4;Q8N5C8;Q8IUD2}

1203 [Cluster 110]GO:0033566+P biological\_process [name] gamma-tubulin complex localization [def] "Any process in which a gamma-tubulin complex is transported to, or maintained in, a specific location." [GOC

1204 Pathogen[ Q2Q067] interacts with 2 human partners: {Q9P209;Q08AG7}

1205 Pathogen[ P0C214] interacts with 2 human partners: {Q9P209;Q08AG7}

1206 Pathogen[ P03346] interacts with 2 human partners: {Q9P209;Q08AG7}

1207 Pathogen[ Q85601] interacts with 2 human partners: {Q9P209;Q08AG7}

1208 Pathogen[ P14079] interacts with 2 human partners: {Q9P209;Q08AG7}

1209 Pathogen[ P03383] interacts with 2 human partners: {Q08AG7;Q9P209}

1210 Pathogen[ P03410] interacts with 2 human partners: {Q9P209;Q08AG7}

1211 Pathogen[ P14075] interacts with 2 human partners: {Q08AG7;Q9P209}

1212 Pathogen[ P0C206] interacts with 2 human partners: {Q9P209;Q08AG7}

1213 Pathogen[ P03363] interacts with 2 human partners: {Q9P209;Q08AG7}

1214 [Cluster 111]GO:0006607+P biological\_process [name] NLS-bearing substrate import into nucleus [def] "The directed movement of a protein bearing a nuclear localization signal (NLS) from the cytoplasm into the nucleus, across the nuclear membrane." [GOC

1215 Pathogen[ Q2Q067] interacts with 12 human partners: {Q14974;O60684;O00410;Q9UHF7;O15117;Q9NZQ3;O15131;Q9P2R6;O00505;O00629;P52292;P52294}

1216 Pathogen[ P0C214] interacts with 11 human partners: {O15117;Q9UHF7;O60684;Q9P2R6;O15131;P52294;O00505;Q9NZQ3;P52292;Q14974;O00629}

1217 Pathogen[ P03346] interacts with 12 human partners: {Q9UHF7;O00629;O00410;O00505;Q9NZQ3;Q9P2R6;O15131;P52292;O60684;O15117;P52294;Q14974}

1218 Pathogen[ Q85601] interacts with 12 human partners: {Q9P2R6;Q9UHF7;O00629;Q9NZQ3;Q14974;O15131;O15117;P52292;O00505;O60684;P52294;O00410}

1219 Pathogen[ P14079] interacts with 13 human partners: {P52294;O60684;Q14118;O15117;Q9NZQ3;O00410;Q14974;Q9P2R6;O00505;O00629;P52292;Q9UHF7;O15131}

1220 Pathogen[ P03383] interacts with 11 human partners: {Q9P2R6;O00505;O15117;P52292;Q9NZQ3;Q14974;O15131;O00629;Q9UHF7;P52294;O00410}

1221 Pathogen[ P03410] interacts with 13 human partners: {Q9UHF7;Q14974;O00505;Q9P2R6;P52294;Q9NZQ3;O00629;O60684;Q14118;O15117;O00410;P52292;O15131}

1222 Pathogen[ P14075] interacts with 11 human partners: {P52292;O15131;Q9NZQ3;Q9P2R6;O00629;O15117;O00505;P52294;Q9UHF7;O00410;Q14974}

1223 Pathogen[ P0C206] interacts with 12 human partners: {O15131;O00629;O60684;Q14974;O00505;O00410;Q9P2R6;Q9UHF7;O15117;P52294;P52292;Q9NZQ3}

1224 Pathogen[ P03363] interacts with 12 human partners: {Q9UHF7;O60684;O00410;O00505;O00629;O15117;Q14974;Q9NZQ3;O15131;Q9P2R6;P52292;P52294}

1225 [Cluster 112]GO:0006415+P biological\_process [name] translational termination [def] "The process resulting in the release of a polypeptide chain from the ribosome, usually in response to a termination codon (UAA, UAG, or UGA in the universal genetic code)." [GOC

1226 Pathogen[ Q2Q067] interacts with 86 human partners: {P61313;P62701;P47914;Q9H3J6;P46779;Q02543;P26373;P62750;P62273;P15880;P40429;P46782;P35268;P22090;P46778;Q9UGC7;P62888;P32969;P62277;P62241;O75570;P62244;P05387;P62861;P42766;P05386;Q9UNX3;P30050;P18077;P62891;P61927;P39023;P62081;P61247;P61254;P62249;P62280;P83731;P62263;P60866;P62906;Q28878;P62878;P62899;P08708;P08865;Q07020;P62913;P62269;P62424;P62917;P62829;P46783;Q8IYD1;P62495;P36578;P62857;P62847;P49207;P23396;P63173;P18621;P39019;P61353;P62266;P42677;Q9Y3U8;P63220;P62841;P83881;P62987;P50914;P46776;P62854;P62753;P05388;P18124;P62851;P25398;P62910;Q92901;P46781;P27635;P61513;P62945;P62979}

1227 Pathogen[ P0C214] interacts with 85 human partners: {P62861;P84098;P61247;Q9UGC7;P15880;P62081;P42766;P62913;P22090;Q92901;P62249;P62899;P62854;P39019;P62263;P62273;P23396;P18077;P05388;P62847;P62829;P26373;P27635;P46778;P61513;P83881;P62701;P49207;P63220;P08865;P32969;Q02543;P62266;P62277;P50914;P46779;Q14197;P40429;P47914;P63173;P46783;P62280;Q9UNX3;O75570;Q9Y3U8;P30050;P62753;P62910;P62891;P62495;P62269;Q9H3J6;P46781;Q8IYD1;P61254;P62841;P62244;P62987;Q07020;P42677;P62945;P46776;P62241;P46777;P83731;P35268;P62424;P60866;P62857;P61313;P08708;P05387;P25398;P61927;P62750;P62979;P05386;P62851;P46782;P18124;P61353;P36578;P186

- 1228 Pathogen[ P03346] interacts with 87 human  
partners: {P05387;P46779;Q9UGC7;P63173;P62917;P62249;P62913;P62861;P62277;Q02878;P62280;P39023;Q9H3J6;P62987;P61927;Q9UNX3;P62857;P46778;P49207;P62266;P61254;P62495;P62424;P62273;P83731;P60866;P62899;P35268;P62891;P08708;P46782;P61353;P62854;Q9Y3U8;O75570;P47914;P08865;P61313;P25398;P61513;P05388;P62269;Q02543;P42766;P62081;P61247;P18621;Q8IYD1;P46781;P84098;P15880;P50914;P62829;P62979;P39019;P23396;P42677;P62750;P62701;P30050;P62910;P36578;P62847;P62851;P22090;P46777;Q07020;P62263;P62841;P83881;P05386;P18077;P46776;P62241;P62753;P62945;Q92901;P32969;P26373;P18124;P40429;P27635;P46783;P62906;P62244;P62888;P63220}
- 1229 Pathogen[ Q85601] interacts with 87 human  
partners: {P46783;P32969;P61513;P26373;P62857;P62244;P62913;P62854;P62081;P61353;P62891;P46776;P18077;P61313;P05388;P62495;P63173;P23396;P62273;P46778;P62829;P30050;P62753;P27635;P15880;P83881;Q07020;P39019;Q9Y3U8;P62701;P62241;P62424;P83731;P62899;P62945;P62263;P62861;Q02878;P39023;P61254;P49207;O75570;P62910;Q9H3J6;P62249;P62280;P47914;P84098;P08708;P42766;P62269;Q9UGC7;P18621;Q8IYD1;P05387;Q9UNX3;P62277;P35268;P62979;P62847;P42677;P63220;P46782;P46779;P62750;P62851;P62841;P62987;P22090;P61927;P36578;P05386;P08865;P61247;P46777;P62917;Q92901;P18124;P46781;P25398;P08866;Q02543;P62906;P50914;P62266;P40429;P62888}
- 1230 Pathogen[ P14079] interacts with 87 human  
partners: {Q9Y3U8;P27635;P84098;P46779;P26373;P23396;P40429;P18621;P83881;Q9UNX3;P46781;P83731;P61513;P62847;P62753;P39023;P62273;P25398;P62495;Q9H3J6;P18077;O75570;P46783;P61254;P50914;P62979;P62841;P18124;P42766;P62266;P46782;P62987;P62241;Q8IYD1;P32969;P22090;P62829;P60866;P62854;Q07020;P39019;P63220;P49207;P62244;P62263;Q02543;P62424;Q92901;P62277;P62750;P62910;P63173;P46776;P08708;P36578;P62906;P47914;P62280;Q9UGC7;P62899;P61353;P62081;P62945;P46777;P42677;P30050;P62891;P62891;P08865;P61927;P62917;P46778;P62249;Q14197;P05386;P35268;P62913;P05387;P61247;P62269;P62701;P61313;P62851;P05388;P62857;P62861}
- 1231 Pathogen[ P03383] interacts with 87 human  
partners: {P42766;P36578;P05388;P62266;P39019;P26373;Q9H3J6;P62913;P62945;P62854;P40429;P62987;P62891;P25398;P62280;Q07020;P62750;P05387;P62249;P62888;P62899;P61927;P46777;P46779;P49207;P83731;P62424;P18124;P46778;Q92901;P62753;P42677;P61247;P83881;P47914;P62917;P62273;Q9UNX3;P30050;P84098;P32969;P62277;O75570;P18077;P63173;P62081;P61313;P08865;P62851;P62495;P46782;P62269;P63220;Q02543;P62244;Q02878;Q9UGC7;Q8IYD1;P62910;P27635;P62857;P62906;P46783;Q9Y3U8;P60866;P61254;P62979;P62241;P46781;P39023;P62841;P22090;P62701;P62829;P62263;P62847;P35268;P05386;P50914;P62861;P18621;P46776;P15880;P23396;P61513;P08708;P61353}
- 1232 Pathogen[ P03410] interacts with 88 human  
partners: {P62861;P05386;Q02543;P61247;P62241;P62829;P49207;P26373;P61513;P62899;P62244;P62913;Q02878;Q92901;P15880;P46777;P46776;P62841;P30050;P05388;P46781;P18124;P62269;Q07020;P63220;P62910;P62847;P62906;P23396;P18621;P62266;P62249;P63173;P50914;P62280;P22090;P61313;P62979;P62701;P62750;P08865;Q9UNX3;P62277;P36578;P18077;P25398;P61927;P84098;P62854;P62273;P62081;P46783;P62495;Q9UGC7;Q9Y3U8;Q14197;P08708;P46782;P32969;Q9H3J6;P46779;P27635;Q8IYD1;P62987;P62857;P62263;P62424;P62888;P61254;P46778;P62945;P05387;P42766;P39019;P47914;P40429;P39023;O75570;P62917;P62851;P83731;P35268;P61313;P62891;P62753;P83881;P60866;P42677}
- 1233 Pathogen[ P14075] interacts with 87 human  
partners: {P42766;P49207;Q9UGC7;P62857;P46781;P63220;P32969;P62495;P42677;P62913;P22090;Q02878;P62277;P62851;P08865;P62244;P08708;P61254;P46778;P05388;P83881;P46777;Q9Y3U8;P62249;P62081;P62750;P18621;Q02543;P18124;Q9UNX3;P25398;P63173;P30050;P62979;P83731;P84098;P61247;P62753;P46782;P62891;P62861;P18077;P46779;P62917;P39023;P50914;P62269;P62847;P62910;P62273;P40429;P23396;P62241;P15880;P62987;Q8IYD1;P62841;P36578;P62266;Q9H3J6;P61513;P61313;P27635;P62888;Q92901;P35268;P62945;P46776;P46783;P62701;P62899;P47914;P62906;P05386;P61353;P39019;P62424;P62829;P62280;O75570;Q07020;P62263;P62854;P60866;P26373;P05387;P61927}
- 1234 Pathogen[ P0C206] interacts with 88 human  
partners: {P40429;P61313;P27635;P18124;P62854;P49207;P62081;P30050;Q9UGC7;P62241;P62244;P50914;P08865;P62750;P18621;P46781;P62266;Q02543;Q07020;P83881;Q8IYD1;P46778;P62263;P62273;Q02878;P62495;P62280;Q9H3J6;P62857;P62851;P62910;P46782;P61247;P18077;P62913;P61927;P61353;P62888;P36578;P62861;P35268;P23396;P39023;P32969;P62701;P05386;P22090;P84098;P62945;P26373;P46777;P05388;P62979;P62899;P83731;P39019;Q92901;P05387;P46783;P42766;P60866;P62841;Q9UNX3;P61513;P62277;Q14197;P46776;P62906;P63173;P62987;P62891;P62269;P62753;O75570;P46779;P63220;P15880;P25398;P08708;P47914;P62847;P61254;P42677;P62829;P62249;P62424;Q9Y3U8;P62917}
- 1235 Pathogen[ P03363] interacts with 86 human  
partners: {P62913;P18621;P05386;P62750;P23396;P42677;P63173;P08865;P62847;O75570;P18077;P05387;P84098;P42766;P62249;P05388;P36578;P62753;P62081;P62910;P61513;P46776;P61254;P62273;P32969;Q92901;Q8IYD1;P46778;P61927;P62891;P61353;P08708;P15880;P62495;P26373;P83881;P22090;P62861;P62841;Q9UNX3;P30050;P62829;P46782;P35268;P46781;P50914;P63220;P61313;P39019;P46779;Q02543;P46777;P62987;P25398;Q9H3J6;P83731;P62851;P62280;Q9Y3U8;P62888;P62244;P62277;P62906;P62266;P62945;P49207;P62241;P62424;P60866;P61247;P62899;P62857;Q02878;Q07020;P39023;P62854;P62917;P18124;P40429;P27635;P62263;P47914;P62701;P62269;P46783;Q9UGC7}
- 1236 [Cluster 113]GO:0045930+P biological\_process [name] negative regulation of mitotic cell cycle [def] "Any process that stops, prevents or reduces the rate or extent of progression through the mitotic cell cycle." [GOC



1237 Pathogen[ Q2Q067] interacts with 4 human partners:{Q14160;Q12959;P84022;P46527}  
1238 Pathogen[ POC214] interacts with 4 human partners:{P84022;P46527;Q12959;Q14160}  
1239 Pathogen[ P03346] interacts with 5 human  
partners:{P84022;Q9UPQ4;Q14160;P46527;Q12959}  
1240 Pathogen[ Q85601] interacts with 6 human  
partners:{Q9NY30;Q9UPQ4;Q14160;P84022;Q12959;P46527}  
1241 Pathogen[ P14079] interacts with 4 human partners:{P54826;Q9NY30;P46527;Q14201}  
1242 Pathogen[ P03383] interacts with 3 human partners:{Q14160;P84022;P46527}  
1243 Pathogen[ P03410] interacts with 8 human  
partners:{P84022;P46527;Q9NY30;Q12959;Q9UPQ4;Q14160;P54826;Q14201}  
1244 Pathogen[ P14075] interacts with 4 human partners:{Q14160;P46527;P84022;P54826}  
1245 Pathogen[ POC206] interacts with 7 human  
partners:{P84022;Q9NY30;Q9UPQ4;Q14160;P46527;P54826;Q12959}  
1246 Pathogen[ P03363] interacts with 4 human partners:{Q12959;Q14160;Q14201;P84022}  
1247 [Cluster 114]GO:0003309+P biological\_process [name] type B pancreatic cell  
differentiation [def] "The process in which relatively unspecialized cells acquire  
specialized structural and/or functional features of a type B pancreatic cell. A type B  
pancreatic cell is a cell located towards center of the islets of Langerhans that  
secretes insulin." [CL  
1248 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8HWS3}  
1249 Pathogen[ POC214] interacts with 1 human partners:{Q8HWS3}  
1250 Pathogen[ P03346] interacts with 1 human partners:{Q8HWS3}  
1251 Pathogen[ Q85601] interacts with 1 human partners:{Q8HWS3}  
1252 Pathogen[ P14079] interacts with 1 human partners:{Q8HWS3}  
1253 Pathogen[ P03383] interacts with 1 human partners:{Q8HWS3}  
1254 Pathogen[ P03410] interacts with 1 human partners:{Q8HWS3}  
1255 Pathogen[ P14075] interacts with 1 human partners:{Q8HWS3}  
1256 Pathogen[ POC206] interacts with 1 human partners:{Q8HWS3}  
1257 Pathogen[ P03363] interacts with 1 human partners:{Q8HWS3}  
1258 [Cluster 115]GO:0030030+P biological\_process [name] cell projection organization  
[def] "A process that is carried out at the cellular level which results in the  
assembly, arrangement of constituent parts, or disassembly of a prolongation or process  
extending from a cell, e.g. a flagellum or axon." [GOC  
1259 Pathogen[ Q2Q067] interacts with 19 human  
partners:{Q8WW24;P31749;P10155;Q9UPV0;D6RGH6;Q8TCI5;Q8IY31;Q9BYV8;Q9NXB0;P06396;O150  
78;Q9NVD7;O75665;Q96NB1;Q5TZA2;A6NIH7;Q9BPU9;Q15154;Q96GV9}  
1260 Pathogen[ POC214] interacts with 19 human  
partners:{O15078;D6RGH6;Q15154;Q8IY31;Q96GV9;Q9BYV8;Q8WW24;Q8TCI5;P06396;Q9UPV0;Q9NX  
B0;Q9BPU9;O75665;A6NIH7;Q9NVD7;P10155;Q96NB1;P31749;Q5TZA2}  
1261 Pathogen[ P03346] interacts with 32 human  
partners:{Q9BPU9;Q8IY31;Q15154;Q96GV9;Q9UIF3;Q9H3S7;Q8N9W5;Q9HBG6;D6RGH6;Q9BT04;Q8TA  
M2;P10155;Q9NXB0;O75665;P31749;Q8N0X2;Q8N157;Q9NVD7;Q9BYV8;Q96PY6;Q5TZA2;A6NIH7;Q8TC  
I5;P06396;O15078;Q96FT9;Q8IWN7;O14965;Q8WW24;Q92834;Q96NB1;Q9UPV0}  
1262 Pathogen[ Q85601] interacts with 23 human  
partners:{Q9NVD7;P31749;P06396;Q15154;Q96PY6;P10155;O15078;D6RGH6;Q92834;Q8TCI5;O149  
65;Q9UPV0;Q8WW24;Q9NXB0;O75665;Q9BYV8;Q9BPU9;Q5TZA2;A6NIH7;Q9BT04;Q96GV9;Q8IY31;Q96N  
B1}  
1263 Pathogen[ P14079] interacts with 49 human  
partners:{Q9PON5;Q8N4P2;Q5TZA2;P10155;Q5JQC9;O95876;Q8IY31;Q9NPI0;D6RGH6;A6NIH7;Q8N9  
W5;Q96GX1;Q86WT1;Q8N0X2;P47756;Q8N157;Q96Q45;Q92834;Q8IWN7;Q9GZS0;P56715;A0AVF1;Q9UP  
M9;Q9UI46;P61158;Q8TCI5;Q8TAM2;Q9BPU9;Q9P2L0;Q8IW40;Q9NZ20;Q8WW24;Q8TC44;Q8NA54;O150  
78;Q9UIF3;Q9P2K1;O75665;Q15154;O14965;Q9NVD7;O15259;Q96FT9;Q9NXB0;Q9BYV8;Q9UPV0;Q96N  
B1;Q96GV9;Q9BT04}  
1264 Pathogen[ P03383] interacts with 20 human  
partners:{Q8IY31;P31749;D6RGH6;P10155;Q8TCI5;Q5TZA2;Q96NB1;Q9NXB0;O15078;Q15154;Q8WW  
24;Q9BYV8;O14965;Q9UPV0;Q96PY6;A6NIH7;O75665;Q9BT04;Q96GV9;P06396}  
1265 Pathogen[ P03410] interacts with 51 human  
partners:{O75665;Q8NA54;Q96NB1;P47756;Q15154;Q9UI46;O15259;Q96FT9;Q8N0X2;Q96RY7;P063  
96;Q96Q45;Q8TAM2;D6RGH6;Q5JQC9;A0AVF1;P31749;Q9UIF3;Q8TCX1;Q9BYV8;Q8N9W5;A6NIH7;O149  
65;Q96GX1;Q9BT04;Q9NPI0;Q8N4P2;Q9BPU9;Q8IY31;Q5TZA2;Q8N157;Q9PON5;O15078;Q9P2K1;Q9UP  
M9;Q92834;O95876;Q9NZ20;Q8TC44;Q8IW40;Q8TCI5;Q9HBG6;Q9UPV0;Q96GV9;Q9NVD7;Q9NXB0;Q9P2  
L0;Q8IWN7;Q9GZS0;P56715;P10155}  
1266 Pathogen[ P14075] interacts with 21 human  
partners:{Q9BYV8;Q96GV9;Q8IY31;Q9BT04;Q5TZA2;Q9UPV0;P10155;P31749;Q9NXB0;O15078;O149  
65;Q96NB1;Q9BPU9;P06396;Q8TCI5;Q15154;Q96PY6;A6NIH7;O75665;D6RGH6;Q8N9W5}  
1267 Pathogen[ POC206] interacts with 37 human  
partners:{Q9BPU9;Q8TCI5;P06396;P31749;P56715;P47756;Q5JQC9;Q9UPM9;Q8TAM2;Q8IY31;Q9BT  
04;Q9NVD7;Q5TZA2;Q9P2K1;Q9UIF3;Q96PY6;Q9UPV0;Q96GV9;D6RGH6;Q8IWN7;P10155;O15078;Q8NA  
54;Q8N157;Q9BYV8;Q8N9W5;O75665;A6NIH7;O14965;Q15154;Q9NXB0;Q96NB1;Q96FT9;O95876;Q928  
34;Q8IW40;Q8WW24}  
1268 Pathogen[ P03363] interacts with 37 human  
partners:{Q8N0X2;Q9H3S7;P56715;Q8TAM2;Q9BYV8;O15078;Q9GZS0;Q9P2K1;Q8TCI5;P06396;Q5TZ  
A2;P10155;Q8N157;Q8IY31;P31749;Q9BPU9;Q9HBG6;Q9BT04;Q96NB1;D6RGH6;Q9UPV0;Q8IW40;A6NI  
H7;Q9UIF3;Q96GV9;Q92834;Q8IWN7;O15259;Q96FT9;Q9NVD7;Q9UI46;Q9NXB0;Q15154;Q8TC44;Q8WW  
24;Q8N9W5;O75665}  
1269 [Cluster 116]GO:0071816+P biological\_process [name] tail-anchored membrane protein

insertion into ER membrane [def] "A process of protein insertion into the endoplasmic reticulum (ER) membrane in which a tail-anchored (TA) transmembrane protein is incorporated into an endoplasmic reticulum (ER) membrane. TA transmembrane protein, also named type II transmembrane proteins, contain a single C- terminal transmembrane region." [GOC

1270 Pathogen[ Q2Q067] interacts with 2 human partners:{Q7L5D6;P11441}

1271 Pathogen[ P0C214] interacts with 3 human partners:{P46379;P11441;Q7L5D6}

1272 Pathogen[ P03346] interacts with 3 human partners:{Q7L5D6;P11441;P46379}

1273 Pathogen[ Q85601] interacts with 3 human partners:{P46379;Q7L5D6;P11441}

1274 Pathogen[ P14079] interacts with 2 human partners:{Q7L5D6;P11441}

1275 Pathogen[ P03383] interacts with 2 human partners:{Q7L5D6;P11441}

1276 Pathogen[ P03410] interacts with 2 human partners:{Q7L5D6;P11441}

1277 Pathogen[ P14075] interacts with 2 human partners:{P11441;Q7L5D6}

1278 Pathogen[ P0C206] interacts with 3 human partners:{P11441;Q7L5D6;P46379}

1279 Pathogen[ P03363] interacts with 3 human partners:{P46379;P11441;Q7L5D6}

1280 [Cluster 117]GO:0010866+P biological\_process [name] regulation of triglyceride biosynthetic process [def] "Any process that modulates the rate, frequency, or extent of triglyceride biosynthesis. Triglyceride biosynthesis is the collection of chemical reactions and pathways resulting in the formation of triglyceride, any triester of glycerol." [GOC

1281 Pathogen[ Q2Q067] interacts with 1 human partners:{Q92748}

1282 Pathogen[ P0C214] interacts with 1 human partners:{Q92748}

1283 Pathogen[ P03346] interacts with 1 human partners:{Q92748}

1284 Pathogen[ Q85601] interacts with 1 human partners:{Q92748}

1285 Pathogen[ P14079] interacts with 2 human partners:{Q8N6M3;Q92748}

1286 Pathogen[ P03383] interacts with 1 human partners:{Q92748}

1287 Pathogen[ P03410] interacts with 2 human partners:{Q92748;Q8N6M3}

1288 Pathogen[ P14075] interacts with 2 human partners:{Q92748;Q8N6M3}

1289 Pathogen[ P0C206] interacts with 2 human partners:{Q8N6M3;Q92748}

1290 Pathogen[ P03363] interacts with 1 human partners:{Q92748}

1291 [Cluster 118]GO:0070060+P biological\_process [name] 'de novo' actin filament nucleation [def] "The actin nucleation process in which actin monomers combine in the absence of any existing actin filaments\_ elongation of the actin oligomer formed by nucleation leads to the formation of an unbranched filament." [GOC

1292 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8N9B5}

1293 Pathogen[ P0C214] interacts with 1 human partners:{Q8N9B5}

1294 Pathogen[ P03346] interacts with 1 human partners:{Q8N9B5}

1295 Pathogen[ Q85601] interacts with 1 human partners:{Q8N9B5}

1296 Pathogen[ P14079] interacts with 1 human partners:{Q8N9B5}

1297 Pathogen[ P03383] interacts with 1 human partners:{Q8N9B5}

1298 Pathogen[ P03410] interacts with 1 human partners:{Q8N9B5}

1299 Pathogen[ P14075] interacts with 1 human partners:{Q8N9B5}

1300 Pathogen[ P0C206] interacts with 1 human partners:{Q8N9B5}

1301 Pathogen[ P03363] interacts with 1 human partners:{Q8N9B5}

1302 [Cluster 119]GO:0031122+P biological\_process [name] cytoplasmic microtubule organization [def] "A process that is carried out at the cellular level which results in the assembly, arrangement of constituent parts, or disassembly of structures formed of microtubules and associated proteins in the cytoplasm of a cell." [GOC

1303 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9P270;Q86VS8}

1304 Pathogen[ P0C214] interacts with 2 human partners:{Q86VS8;Q9P270}

1305 Pathogen[ P03346] interacts with 3 human partners:{Q86VS8;Q9P021;Q9P270}

1306 Pathogen[ Q85601] interacts with 2 human partners:{Q86VS8;Q9P270}

1307 Pathogen[ P14079] interacts with 4 human partners:{Q86VS8;Q9NZ72;Q9P270;Q9P021}

1308 Pathogen[ P03383] interacts with 2 human partners:{Q86VS8;Q9P270}

1309 Pathogen[ P03410] interacts with 4 human partners:{Q86VS8;Q9NZ72;Q9P021;Q9P270}

1310 Pathogen[ P14075] interacts with 2 human partners:{Q86VS8;Q9P270}

1311 Pathogen[ P0C206] interacts with 4 human partners:{Q9P021;Q86VS8;Q9NZ72;Q9P270}

1312 Pathogen[ P03363] interacts with 3 human partners:{Q9P021;Q86VS8;Q9P270}

1313 [Cluster 120]GO:0050434+P biological\_process [name] positive regulation of viral transcription [def] "Any process that activates or increases the frequency, rate or extent of viral transcription." [GOC

1314 Pathogen[ Q2Q067] interacts with 41 human partners:{P52434;P07737;O00267;Q13889;P19388;P52435;P32780;P18615;P30876;P19387;P61218;Q92759;O60563;P62487;P55199;P51948;Q15370;P50750;Q9Y5B0;Q13233;P50613;P13984;Q15369;P62875;P24928;Q96T23;P23193;Q09161;Q8IXH7;Q9H3P2;P52298;P35269;P63272;P53803;Q14241;Q9Y5B9;Q9P1T7;Q13888;P51946;Q8WX92;Q08945}

1315 Pathogen[ P0C214] interacts with 39 human partners:{P51946;Q8WX92;Q09161;P30876;P53803;P35269;P50750;O00267;P50613;P52435;P61218;Q15370;P18615;P52298;P62487;Q13233;P51948;Q15369;P55199;P63272;Q9Y5B9;Q9P1T7;P62875;P13984;P32780;P24928;O60563;Q96T23;Q9Y5B0;Q13888;P52434;Q08945;Q8IXH7;Q9H3P2;P19387;P23193;P19388;Q92759;Q14241}

1316 Pathogen[ P03346] interacts with 41 human partners:{Q15370;Q09161;P52434;Q8IXH7;O60563;Q13888;Q9H3P2;P53803;P61218;P63272;P52298;Q08945;Q13889;Q9Y5B0;P62487;P19388;P13984;P52435;P51946;P50750;Q9Y5B9;P36954;Q96T23;Q13233;O00267;Q8WX92;Q92759;P55199;P30876;Q15369;P35269;P07737;P24928;P23193;Q9P1T7;P51948;P32780;P18615;P62875;P19387;Q14241}

1317 Pathogen[ Q85601] interacts with 42 human partners: {P51946;P36954;Q15370;O60563;P50750;Q96T23;Q13888;Q14241;Q9H3P2;P53803;P61218;Q9Y5B9;P51948;P18615;Q09161;Q8WX92;P07737;P62487;P19388;P13984;Q92759;P32780;Q9Y5B0;P52435;P35269;Q15369;P50613;O00267;P23193;P55199;Q8IXH7;Q08945;P19387;P63272;P24928;P52298;Q13233;P30876;P52434;Q9P1T7;P19447;P62875}

1318 Pathogen[ P14079] interacts with 42 human partners: {Q9Y5B9;P62875;P55199;Q96T23;Q08945;Q14241;P19387;Q9Y5B0;P35269;P51946;Q8IXH7;P62487;P52434;P52298;O15514;P30876;P61218;Q9H3P2;P07737;Q13889;P53803;P18615;P50613;Q13888;P19388;P52435;P63272;Q15370;Q92759;Q8WX92;P32780;P23193;P13984;Q9P1T7;P24928;Q15369;O00267;P36954;P19447;Q09161;P50750;P51948}

1319 Pathogen[ P03383] interacts with 40 human partners: {P53803;P55199;Q15369;P63272;Q9H3P2;P35269;P51948;Q13233;Q13888;P23193;P52434;P61218;Q08945;Q96T23;P07737;O00267;Q09161;P62487;Q8IXH7;P19387;O60563;P50613;P13984;P51946;P24928;P50750;Q92759;P52298;P62875;P52435;Q9Y5B0;Q15370;P19388;Q9P1T7;P30876;Q14241;Q9Y5B9;P32780;P18615;Q8WX92}

1320 Pathogen[ P03410] interacts with 44 human partners: {Q08945;P19387;Q96T23;Q13889;P18615;P36954;Q9H3P2;O00267;Q9Y5B9;P63272;P24928;P51946;P30876;Q15370;Q13233;P23193;O15514;P50613;P50750;O60563;P55199;Q8IXH7;Q8WX92;Q15369;Q9P1T7;P52435;P52298;P53803;P19447;P62875;P35269;P61218;P51948;Q9Y5B0;Q13888;P52434;P13984;P62487;Q09161;P19388;Q14241;P32780;P07737;Q92759}

1321 Pathogen[ P14075] interacts with 41 human partners: {Q09161;P13984;Q92759;P18615;Q08945;P30876;O60563;Q9Y5B0;P50613;Q14241;Q9P1T7;P19388;P61218;P50750;P19387;P07737;P62487;Q15370;P23193;Q13889;Q9Y5B9;P24928;P35269;P51946;P32780;P55199;Q96T23;Q9H3P2;P62875;Q8IXH7;Q13233;O00267;Q15369;P52434;P63272;P51948;P52298;Q8WX92;P52435;P53803;Q13888}

1322 Pathogen[ P0C206] interacts with 44 human partners: {P62875;Q8IXH7;P23193;P52298;P36954;P50750;Q09161;P19388;P61218;Q96T23;Q9Y5B9;Q14241;Q13233;P13984;P19447;P53803;O15514;P35269;Q9Y5B0;P19387;Q13888;P50613;P18615;Q92759;Q15370;O00267;Q9H3P2;P52435;P62487;P32780;Q13889;Q8WX92;P24928;P55199;P07737;O60563;Q15369;Q08945;Q9P1T7;P52434;P51946;P63272;P51948;P30876}

1323 Pathogen[ P03363] interacts with 37 human partners: {Q9Y5B0;Q15370;P19388;P13984;O60563;P55199;Q8WX92;P30876;Q13888;P32780;Q92759;P19387;P61218;P51946;P24928;O00267;Q15369;Q8IXH7;P18615;P35269;Q96T23;Q9P1T7;Q9Y5B9;Q14241;Q9H3P2;P52298;P62487;P23193;P63272;P50750;Q08945;P53803;P52435;P52434;Q13233;P07737;Q09161}

1324 [Cluster 121]GO:0070358+P biological\_process [name] actin polymerization-dependent cell motility [def] "A process involved in the controlled movement of a bacterial cell powered by the continuous polymerization of actin at one pole of the cell." [GOC

1325 Pathogen[ Q2Q067] interacts with 1 human partners: {Q8N9B5}

1326 Pathogen[ P0C214] interacts with 1 human partners: {Q8N9B5}

1327 Pathogen[ P03346] interacts with 1 human partners: {Q8N9B5}

1328 Pathogen[ Q85601] interacts with 1 human partners: {Q8N9B5}

1329 Pathogen[ P14079] interacts with 1 human partners: {Q8N9B5}

1330 Pathogen[ P03383] interacts with 1 human partners: {Q8N9B5}

1331 Pathogen[ P03410] interacts with 1 human partners: {Q8N9B5}

1332 Pathogen[ P14075] interacts with 1 human partners: {Q8N9B5}

1333 Pathogen[ P0C206] interacts with 1 human partners: {Q8N9B5}

1334 Pathogen[ P03363] interacts with 1 human partners: {Q8N9B5}

1335 [Cluster 122]GO:0016180+P biological\_process [name] snRNA processing [def] "Any process involved in the conversion of a primary small nuclear RNA (snRNA) transcript into a mature snRNA molecule." [GOC

1336 Pathogen[ Q2Q067] interacts with 9 human partners: {Q9NVH2;Q96HW7;Q9NV88;Q9NVR2;Q96CB8;Q6P9B9;Q68E01;Q75QN2;Q9UL03}

1337 Pathogen[ P0C214] interacts with 8 human partners: {Q9NVH2;Q68E01;Q96HW7;Q75QN2;Q9NV88;Q96CB8;Q9NVR2;Q9UL03}

1338 Pathogen[ P03346] interacts with 10 human partners: {Q6P9B9;Q9H0H0;Q96HW7;Q75QN2;Q68E01;Q9NVH2;Q9NV88;Q96CB8;Q9UL03;Q9NVR2}

1339 Pathogen[ Q85601] interacts with 7 human partners: {Q96CB8;Q68E01;Q75QN2;Q9NVR2;Q9NV88;Q9UL03;Q96HW7}

1340 Pathogen[ P14079] interacts with 11 human partners: {Q9NV88;Q96CB8;Q9NVR2;Q75QN2;Q6P9B9;Q9NVH2;Q8N201;Q68E01;Q9H0H0;Q9UL03;Q96HW7}

1341 Pathogen[ P03383] interacts with 9 human partners: {Q68E01;Q75QN2;Q6P9B9;Q9NV88;Q96HW7;Q96CB8;Q9UL03;Q9NVH2;Q9NVR2}

1342 Pathogen[ P03410] interacts with 11 human partners: {Q9NVR2;Q96CB8;Q9UL03;Q8N201;Q9H0H0;Q9NV88;Q9NVH2;Q96HW7;Q68E01;Q75QN2;Q6P9B9}

1343 Pathogen[ P14075] interacts with 9 human partners: {Q75QN2;Q68E01;Q9NVR2;Q96HW7;Q9NVH2;Q6P9B9;Q9UL03;Q9NV88;Q96CB8}

1344 Pathogen[ P0C206] interacts with 11 human partners: {Q68E01;Q9NV88;Q9NVH2;Q9UL03;Q9H0H0;Q96HW7;Q96CB8;Q75QN2;Q9NVR2;Q6P9B9;Q8N201}

1345 Pathogen[ P03363] interacts with 10 human partners: {Q9NVR2;Q96HW7;Q75QN2;Q9UL03;Q6P9B9;Q9NVH2;Q9H0H0;Q68E01;Q9NV88;Q96CB8}

1346 [Cluster 123]GO:0050730+P biological\_process [name] regulation of peptidyl-tyrosine phosphorylation [def] "Any process that modulates the frequency, rate or extent of the

phosphorylation of peptidyl-tyrosine." [GOC

1347 Pathogen[ Q2Q067] interacts with 1 human partners:{Q15173}

1348 Pathogen[ P0C214] interacts with 1 human partners:{Q15173}

1349 Pathogen[ P03346] interacts with 1 human partners:{Q15173}

1350 Pathogen[ Q85601] interacts with 1 human partners:{Q15173}

1351 Pathogen[ P14079] interacts with 1 human partners:{Q15173}

1352 Pathogen[ P03383] interacts with 1 human partners:{Q15173}

1353 Pathogen[ P03410] interacts with 1 human partners:{Q15173}

1354 Pathogen[ P14075] interacts with 1 human partners:{Q15173}

1355 Pathogen[ P0C206] interacts with 1 human partners:{Q15173}

1356 Pathogen[ P03363] interacts with 1 human partners:{Q15173}

1357 [Cluster 124]GO:0034446+P biological\_process [name] substrate adhesion-dependent cell spreading [def] "The morphogenetic process that results in flattening of a cell as a consequence of its adhesion to a substrate." [GOC

1358 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9NQ31;Q9NVD7;P63000}

1359 Pathogen[ P0C214] interacts with 3 human partners:{P63000;Q9NQ31;Q9NVD7}

1360 Pathogen[ P03346] interacts with 4 human partners:{Q9NQ31;Q9NVD7;Q9C0H9;P63000}

1361 Pathogen[ Q85601] interacts with 3 human partners:{Q9NVD7;P63000;Q9NQ31}

1362 Pathogen[ P14079] interacts with 3 human partners:{Q9NQ31;Q9C0H9;Q9NVD7}

1363 Pathogen[ P03383] interacts with 3 human partners:{Q9NQ31;P63000;Q9C0H9}

1364 Pathogen[ P03410] interacts with 4 human partners:{P63000;Q9NVD7;Q9C0H9;Q9NQ31}

1365 Pathogen[ P14075] interacts with 3 human partners:{Q9NQ31;P63000;Q9C0H9}

1366 Pathogen[ P0C206] interacts with 4 human partners:{Q9NVD7;P63000;Q9C0H9;Q9NQ31}

1367 Pathogen[ P03363] interacts with 4 human partners:{P63000;Q9NQ31;Q9NVD7;Q9C0H9}

1368 [Cluster 125]GO:0008217+P biological\_process [name] regulation of blood pressure [def] "Any process that modulates the force with which blood travels through the circulatory system. The process is controlled by a balance of processes that increase pressure and decrease pressure." [GOC

1369 Pathogen[ Q2Q067] interacts with 4 human partners:{Q6RW13;P30793;P68871;P29474}

1370 Pathogen[ P0C214] interacts with 6 human partners:{P29474;Q6RW13;P30793;P68871;P62736;P13533}

1371 Pathogen[ P03346] interacts with 4 human partners:{P29474;P62736;P68871;Q6RW13}

1372 Pathogen[ Q85601] interacts with 6 human partners:{P13533;P30793;Q6RW13;P29474;P68871;P62736}

1373 Pathogen[ P14079] interacts with 6 human partners:{P13498;Q6RW13;P51606;O60895;P30793;P68871}

1374 Pathogen[ P03383] interacts with 3 human partners:{Q6RW13;P29474;P68871}

1375 Pathogen[ P03410] interacts with 9 human partners:{P51606;P62736;O60895;P10645;P30793;P29474;P68871;Q6RW13;P13533}

1376 Pathogen[ P14075] interacts with 4 human partners:{P29474;P68871;Q6RW13;P30793}

1377 Pathogen[ P0C206] interacts with 6 human partners:{P68871;P13533;P62736;P30793;Q6RW13;P29474}

1378 Pathogen[ P03363] interacts with 3 human partners:{P29474;P68871;P62736}

1379 [Cluster 126]GO:0061303+P biological\_process [name] cornea development in camera-type eye [def] "The progression of the cornea over time, from its formation to the mature structure. The cornea is the transparent structure that covers the anterior of the eye." [GOC

1380 Pathogen[ Q2Q067] interacts with 2 human partners:{Q99456;Q8WVJ9}

1381 Pathogen[ P0C214] interacts with 2 human partners:{Q99456;Q8WVJ9}

1382 Pathogen[ P03346] interacts with 2 human partners:{Q8WVJ9;Q99456}

1383 Pathogen[ Q85601] interacts with 2 human partners:{Q99456;Q8WVJ9}

1384 Pathogen[ P14079] interacts with 2 human partners:{Q99456;Q8WVJ9}

1385 Pathogen[ P03383] interacts with 2 human partners:{Q8WVJ9;Q99456}

1386 Pathogen[ P03410] interacts with 2 human partners:{Q8WVJ9;Q99456}

1387 Pathogen[ P14075] interacts with 2 human partners:{Q8WVJ9;Q99456}

1388 Pathogen[ P0C206] interacts with 2 human partners:{Q8WVJ9;Q99456}

1389 Pathogen[ P03363] interacts with 2 human partners:{Q99456;Q8WVJ9}

1390 [Cluster 127]GO:0051026+P biological\_process [name] chiasma assembly [def] "The cell cycle process in which a connection between chromatids assembles, indicating where an exchange of homologous segments has taken place by the crossing-over of non-sister chromatids." [http

1391 Pathogen[ Q2Q067] interacts with 2 human partners:{P63146;Q8IYF3}

1392 Pathogen[ P0C214] interacts with 3 human partners:{Q9NPC3;Q8IYF3;P63146}

1393 Pathogen[ P03346] interacts with 3 human partners:{Q8IYF3;P63146;Q9NPC3}

1394 Pathogen[ Q85601] interacts with 3 human partners:{P63146;Q8IYF3;Q9NPC3}

1395 Pathogen[ P14079] interacts with 4 human partners:{O43196;Q9NPC3;P63146;Q8IYF3}

1396 Pathogen[ P03383] interacts with 2 human partners:{Q8IYF3;P63146}

1397 Pathogen[ P03410] interacts with 4 human partners:{Q9NPC3;P63146;O43196;Q8IYF3}

1398 Pathogen[ P14075] interacts with 2 human partners:{P63146;Q8IYF3}

1399 Pathogen[ P0C206] interacts with 3 human partners:{Q9NPC3;Q8IYF3;P63146}

1400 Pathogen[ P03363] interacts with 2 human partners:{Q9NPC3;P63146}

1401 [Cluster 128]GO:0050708+P biological\_process [name] regulation of protein secretion [def] "Any process that modulates the frequency, rate or extent of the controlled release of a protein from a cell or group of cells." [GOC

1402 Pathogen[ Q2Q067] interacts with 1 human partners:{P35900}

1403 Pathogen[ P0C214] interacts with 1 human partners:{P35900}

1404 Pathogen[ P03346] interacts with 3 human partners:{Q96KC8;P35900;P53367}  
1405 Pathogen[ Q85601] interacts with 1 human partners:{P35900}  
1406 Pathogen[ P14079] interacts with 2 human partners:{P35900;P0DJI8}  
1407 Pathogen[ P03383] interacts with 1 human partners:{P35900}  
1408 Pathogen[ P03410] interacts with 3 human partners:{P0DJI8;P53367;P35900}  
1409 Pathogen[ P14075] interacts with 1 human partners:{P35900}  
1410 Pathogen[ P0C206] interacts with 1 human partners:{P35900}  
1411 Pathogen[ P03363] interacts with 1 human partners:{P35900}  
1412 [Cluster 129]GO:0033158+P biological\_process [name] regulation of protein import into nucleus, translocation [def] "Any process that modulates the vectorial transfer of a protein from the cytoplasm into the nucleus, across the nuclear membrane." [GOC  
1413 Pathogen[ Q2Q067] interacts with 3 human partners:{P10599;O15527;P38936}  
1414 Pathogen[ P0C214] interacts with 3 human partners:{P38936;P10599;O15527}  
1415 Pathogen[ P03346] interacts with 3 human partners:{P10599;P38936;O15527}  
1416 Pathogen[ Q85601] interacts with 3 human partners:{O15527;P10599;P38936}  
1417 Pathogen[ P14079] interacts with 3 human partners:{O15527;P38936;P10599}  
1418 Pathogen[ P03383] interacts with 2 human partners:{O15527;P10599}  
1419 Pathogen[ P03410] interacts with 3 human partners:{P10599;P38936;O15527}  
1420 Pathogen[ P14075] interacts with 2 human partners:{O15527;P10599}  
1421 Pathogen[ P0C206] interacts with 3 human partners:{O15527;P38936;P10599}  
1422 Pathogen[ P03363] interacts with 1 human partners:{O15527}  
1423 [Cluster 130]GO:0007130+P biological\_process [name] synaptonemal complex assembly [def] "The cell cycle process in which the synaptonemal complex is formed. This is a structure that holds paired chromosomes together during prophase I of meiosis and that promotes genetic recombination." [ISBN  
1424 Pathogen[ Q2Q067] interacts with 5 human partners:{Q9UHC1;Q8IYF3;A1L190;Q9UJ98;Q9BX26}  
1425 Pathogen[ P0C214] interacts with 7 human partners:{A1L190;P46379;Q9UJ98;Q9BXT5;Q9UHC1;Q9BX26;Q8IYF3}  
1426 Pathogen[ P03346] interacts with 8 human partners:{Q9BXT5;Q9BX26;Q8IYF3;Q9UHC1;Q9UJ98;P46379;A1L190;Q92791}  
1427 Pathogen[ Q85601] interacts with 7 human partners:{Q9BXT5;Q8IYF3;P46379;Q9BX26;Q9UJ98;Q9UHC1;A1L190}  
1428 Pathogen[ P14079] interacts with 8 human partners:{Q9BXT5;Q9UHC1;Q9UJ98;Q86X24;Q92791;Q9BX26;Q8IYF3;A1L190}  
1429 Pathogen[ P03383] interacts with 5 human partners:{Q9UJ98;Q9UHC1;Q8IYF3;A1L190;Q9BX26}  
1430 Pathogen[ P03410] interacts with 7 human partners:{Q92791;Q9BX26;Q9BXT5;Q9UJ98;A1L190;Q8IYF3;Q9UHC1}  
1431 Pathogen[ P14075] interacts with 6 human partners:{Q9BX26;A1L190;Q9UJ98;Q9UHC1;Q9BXT5;Q8IYF3}  
1432 Pathogen[ P0C206] interacts with 8 human partners:{A1L190;Q92791;Q9UHC1;Q9UJ98;Q9BXT5;Q9BX26;Q8IYF3;P46379}  
1433 Pathogen[ P03363] interacts with 7 human partners:{P46379;Q9UJ98;Q9UHC1;Q92791;Q9BXT5;Q9BX26;A1L190}  
1434 [Cluster 131]GO:0006474+P biological\_process [name] N-terminal protein amino acid acetylation [def] "The acetylation of the N-terminal amino acid of proteins." [GOC  
1435 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9GZZ1;P41227;Q9BXJ9}  
1436 Pathogen[ P0C214] interacts with 4 human partners:{P41227;Q16613;Q9GZZ1;Q9BXJ9}  
1437 Pathogen[ P03346] interacts with 4 human partners:{P41227;Q6N069;Q9BXJ9;Q9GZZ1}  
1438 Pathogen[ Q85601] interacts with 5 human partners:{Q6N069;Q9GZZ1;Q16613;P41227;Q9BXJ9}  
1439 Pathogen[ P14079] interacts with 5 human partners:{P41227;Q9BXJ9;Q16613;Q9GZZ1;Q6N069}  
1440 Pathogen[ P03383] interacts with 4 human partners:{Q9GZZ1;P41227;Q16613;Q9BXJ9}  
1441 Pathogen[ P03410] interacts with 5 human partners:{Q9GZZ1;P41227;Q6N069;Q16613;Q9BXJ9}  
1442 Pathogen[ P14075] interacts with 4 human partners:{P41227;Q9BXJ9;Q16613;Q9GZZ1}  
1443 Pathogen[ P0C206] interacts with 5 human partners:{Q9GZZ1;P41227;Q6N069;Q16613;Q9BXJ9}  
1444 Pathogen[ P03363] interacts with 4 human partners:{P41227;Q6N069;Q9GZZ1;Q9BXJ9}  
1445 [Cluster 132]GO:0071732+P biological\_process [name] cellular response to nitric oxide [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a nitric oxide stimulus." [GOC  
1446 Pathogen[ Q2Q067] interacts with 1 human partners:{P24941}  
1447 Pathogen[ P0C214] interacts with 1 human partners:{P24941}  
1448 Pathogen[ P03346] interacts with 2 human partners:{P24941;Q12778}  
1449 Pathogen[ Q85601] interacts with 1 human partners:{P24941}  
1450 Pathogen[ P14079] interacts with 1 human partners:{P11686}  
1451 Pathogen[ P03383] interacts with 1 human partners:{P24941}  
1452 Pathogen[ P03410] interacts with 2 human partners:{P11686;P24941}  
1453 Pathogen[ P14075] interacts with 1 human partners:{P24941}  
1454 Pathogen[ P0C206] interacts with 1 human partners:{P24941}  
1455 Pathogen[ P03363] interacts with 1 human partners:{P24941}  
1456 [Cluster 133]GO:0000432+P biological\_process [name] positive regulation of

transcription from RNA polymerase II promoter by glucose [def] "Any process involving glucose that activates or increases the rate of transcription from an RNA polymerase II promoter." [GOC

1457 Pathogen[ Q2Q067] interacts with 2 human partners:{P22415;Q15853}

1458 Pathogen[ P0C214] interacts with 2 human partners:{Q15853;P22415}

1459 Pathogen[ P03346] interacts with 2 human partners:{Q15853;P22415}

1460 Pathogen[ Q85601] interacts with 2 human partners:{Q15853;P22415}

1461 Pathogen[ P14079] interacts with 2 human partners:{Q15853;P22415}

1462 Pathogen[ P03383] interacts with 2 human partners:{Q15853;P22415}

1463 Pathogen[ P03410] interacts with 2 human partners:{P22415;Q15853}

1464 Pathogen[ P14075] interacts with 2 human partners:{Q15853;P22415}

1465 Pathogen[ P0C206] interacts with 2 human partners:{Q15853;P22415}

1466 Pathogen[ P03363] interacts with 2 human partners:{Q15853;P22415}

1467 [Cluster 134]GO:0060318+P biological\_process [name] definitive erythrocyte differentiation [def] "Erythrocyte differentiation which occurs as part of the process of definitive hemopoiesis." [GOC

1468 Pathogen[ Q2Q067] interacts with 3 human partners:{Q8IX07;Q9HBD4;O75376}

1469 Pathogen[ P0C214] interacts with 3 human partners:{Q9HBD4;O75376;Q8IX07}

1470 Pathogen[ P03346] interacts with 3 human partners:{Q9HBD4;Q8IX07;O75376}

1471 Pathogen[ Q85601] interacts with 3 human partners:{Q8IX07;O75376;Q9HBD4}

1472 Pathogen[ P14079] interacts with 2 human partners:{Q8IX07;O75376}

1473 Pathogen[ P03383] interacts with 2 human partners:{Q9HBD4;O75376}

1474 Pathogen[ P03410] interacts with 3 human partners:{O75376;Q8IX07;Q9HBD4}

1475 Pathogen[ P14075] interacts with 2 human partners:{Q9HBD4;O75376}

1476 Pathogen[ P0C206] interacts with 3 human partners:{O75376;Q8IX07;Q9HBD4}

1477 Pathogen[ P03363] interacts with 2 human partners:{O75376;Q9HBD4}

1478 [Cluster 135]GO:0009798+P biological\_process [name] axis specification [def] "The establishment, maintenance and elaboration of a pattern along a line or around a point." [GOC

1479 Pathogen[ Q2Q067] interacts with 1 human partners:{Q5TAB7}

1480 Pathogen[ P0C214] interacts with 1 human partners:{Q5TAB7}

1481 Pathogen[ P03346] interacts with 1 human partners:{Q5TAB7}

1482 Pathogen[ Q85601] interacts with 1 human partners:{Q5TAB7}

1483 Pathogen[ P14079] interacts with 1 human partners:{Q5TAB7}

1484 Pathogen[ P03383] interacts with 1 human partners:{Q5TAB7}

1485 Pathogen[ P03410] interacts with 1 human partners:{Q5TAB7}

1486 Pathogen[ P14075] interacts with 1 human partners:{Q5TAB7}

1487 Pathogen[ P0C206] interacts with 1 human partners:{Q5TAB7}

1488 Pathogen[ P03363] interacts with 1 human partners:{Q5TAB7}

1489 [Cluster 136]GO:0007057+P biological\_process [name] spindle assembly involved in female meiosis I [def] "The aggregation, arrangement and bonding together of a set of components to form the spindle during meiosis I of a meiotic cell cycle in females. An example of this is found in *Drosophila melanogaster*." [GOC

1490 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UKT4}

1491 Pathogen[ P0C214] interacts with 1 human partners:{Q9UKT4}

1492 Pathogen[ P03346] interacts with 1 human partners:{Q9UKT4}

1493 Pathogen[ Q85601] interacts with 1 human partners:{Q9UKT4}

1494 Pathogen[ P14079] interacts with 1 human partners:{Q9UKT4}

1495 Pathogen[ P03383] interacts with 1 human partners:{Q9UKT4}

1496 Pathogen[ P03410] interacts with 1 human partners:{Q9UKT4}

1497 Pathogen[ P14075] interacts with 1 human partners:{Q9UKT4}

1498 Pathogen[ P0C206] interacts with 1 human partners:{Q9UKT4}

1499 Pathogen[ P03363] interacts with 1 human partners:{Q9UKT4}

1500 [Cluster 137]GO:0046825+P biological\_process [name] regulation of protein export from nucleus [def] "Any process that modulates the frequency, rate or extent of the directed movement of proteins from the nucleus to the cytoplasm." [GOC

1501 Pathogen[ Q2Q067] interacts with 2 human partners:{Q8N726;O14980}

1502 Pathogen[ P0C214] interacts with 2 human partners:{Q8N726;O14980}

1503 Pathogen[ P03346] interacts with 2 human partners:{O14980;Q8N726}

1504 Pathogen[ Q85601] interacts with 2 human partners:{Q8N726;O14980}

1505 Pathogen[ P14079] interacts with 1 human partners:{Q8N726}

1506 Pathogen[ P03383] interacts with 2 human partners:{O14980;Q8N726}

1507 Pathogen[ P03410] interacts with 2 human partners:{Q8N726;O14980}

1508 Pathogen[ P14075] interacts with 2 human partners:{O14980;Q8N726}

1509 Pathogen[ P0C206] interacts with 1 human partners:{Q8N726}

1510 Pathogen[ P03363] interacts with 2 human partners:{O14980;Q8N726}

1511 [Cluster 138]GO:0007026+P biological\_process [name] negative regulation of microtubule depolymerization [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of microtubule depolymerization\_prevention of depolymerization of a microtubule can result from binding by 'capping' at the plus end (e.g. by interaction with another cellular protein of structure) or by exposing microtubules to a stabilizing drug such as taxol." [GOC

1512 Pathogen[ Q2Q067] interacts with 5 human partners:{Q7Z460;Q8WWK9;Q9H9H5;O75122;Q9NPA3}

1513 Pathogen[ P0C214] interacts with 5 human partners:{Q9NPA3;O75122;Q9H9H5;Q7Z460;Q8WWK9}

1514 Pathogen[ P03346] interacts with 7 human partners:{Q93045;Q9H9H5;O75122;Q8WWK9;Q7Z460;Q96JE9;Q9NPA3}

1515 Pathogen[ Q85601] interacts with 6 human partners:{Q8WWK9;O75122;Q9H9H5;Q9BVA0;Q9NPA3;Q7Z460}

1516 Pathogen[ P14079] interacts with 8 human partners:{Q9NPA3;Q7Z460;Q9H9H5;Q93045;Q96JE9;Q8WWK9;Q9BVA0;O75122}

1517 Pathogen[ P03383] interacts with 4 human partners:{Q7Z460;Q8WWK9;Q9H9H5;Q9NPA3}

1518 Pathogen[ P03410] interacts with 8 human partners:{Q7Z460;Q8WWK9;Q96JE9;Q9H9H5;O75122;Q9NPA3;Q93045;Q9BVA0}

1519 Pathogen[ P14075] interacts with 5 human partners:{Q96JE9;Q7Z460;Q9H9H5;Q9NPA3;Q8WWK9}

1520 Pathogen[ P0C206] interacts with 8 human partners:{Q9NPA3;Q9BVA0;Q96JE9;O75122;Q93045;Q7Z460;Q8WWK9;Q9H9H5}

1521 Pathogen[ P03363] interacts with 7 human partners:{Q8WWK9;Q8NHY3;Q93045;Q7Z460;Q9NPA3;Q96JE9;Q9H9H5}

1522 [Cluster 139]GO:0033235+P biological\_process [name] positive regulation of protein sumoylation [def] "Any process that activates or increases the frequency, rate or extent of the addition of SUMO groups to a protein." [GOC

1523 Pathogen[ Q2Q067] interacts with 6 human partners:{P27540;P56524;O75925;Q8N726;Q9Y6X2;Q8N2W9}

1524 Pathogen[ P0C214] interacts with 6 human partners:{Q9Y6X2;O75925;Q8N2W9;P56524;Q8N726;P27540}

1525 Pathogen[ P03346] interacts with 7 human partners:{P56524;P27540;O75925;Q8N2W9;A9YTQ3;Q9Y6X2;Q8N726}

1526 Pathogen[ Q85601] interacts with 7 human partners:{Q9Y6X2;P27540;Q8N2W9;Q8N726;A9YTQ3;P56524;O75925}

1527 Pathogen[ P14079] interacts with 7 human partners:{Q8N2W9;Q9Y6X2;Q8N726;P27540;A9YTQ3;O75925;P56524}

1528 Pathogen[ P03383] interacts with 6 human partners:{O75925;P27540;Q8N2W9;Q9Y6X2;P56524;Q8N726}

1529 Pathogen[ P03410] interacts with 7 human partners:{O75925;Q8N726;A9YTQ3;Q9Y6X2;Q8N2W9;P27540;P56524}

1530 Pathogen[ P14075] interacts with 6 human partners:{P56524;O75925;Q8N2W9;P27540;Q9Y6X2;Q8N726}

1531 Pathogen[ P0C206] interacts with 7 human partners:{Q8N726;O75925;Q8N2W9;Q9Y6X2;P27540;P56524;A9YTQ3}

1532 Pathogen[ P03363] interacts with 6 human partners:{P27540;Q9Y6X2;O75925;A9YTQ3;Q8N726;Q8N2W9}

1533 [Cluster 140]GO:0006436+P biological\_process [name] tryptophanyl-tRNA aminoacylation [def] "The process of coupling tryptophan to tryptophanyl-tRNA, catalyzed by tryptophanyl-tRNA synthetase. In tRNA aminoacylation, the amino acid is first activated by linkage to AMP and then transferred to either the 2'- or the 3'-hydroxyl group of the 3'-adenosine residue of the tRNA." [GOC

1534 Pathogen[ Q2Q067] interacts with 1 human partners:{P23381}

1535 Pathogen[ P0C214] interacts with 2 human partners:{Q9UGM6;P23381}

1536 Pathogen[ P03346] interacts with 1 human partners:{P23381}

1537 Pathogen[ Q85601] interacts with 1 human partners:{P23381}

1538 Pathogen[ P14079] interacts with 2 human partners:{P23381;Q9UGM6}

1539 Pathogen[ P03383] interacts with 1 human partners:{P23381}

1540 Pathogen[ P03410] interacts with 2 human partners:{P23381;Q9UGM6}

1541 Pathogen[ P14075] interacts with 1 human partners:{P23381}

1542 Pathogen[ P0C206] interacts with 2 human partners:{Q9UGM6;P23381}

1543 Pathogen[ P03363] interacts with 1 human partners:{P23381}

1544 [Cluster 141]GO:0001816+P biological\_process [name] cytokine production [def] "The appearance of a cytokine due to biosynthesis or secretion following a cellular stimulus, resulting in an increase in its intracellular or extracellular levels." [GOC

1545 Pathogen[ Q2Q067] interacts with 5 human partners:{Q8NCF5;Q04864;Q5TAX3;Q13469;O75444}

1546 Pathogen[ P0C214] interacts with 6 human partners:{O75444;P11413;Q13469;Q8NCF5;Q04864;Q5TAX3}

1547 Pathogen[ P03346] interacts with 5 human partners:{Q04864;O75444;Q5TAX3;Q13469;Q8NCF5}

1548 Pathogen[ Q85601] interacts with 5 human partners:{Q13469;Q04864;O75444;Q5TAX3;Q8NCF5}

1549 Pathogen[ P14079] interacts with 4 human partners:{Q5TAX3;O75444;Q13469;Q8NCF5}

1550 Pathogen[ P03383] interacts with 5 human partners:{Q04864;Q8NCF5;Q13469;Q5TAX3;O75444}

1551 Pathogen[ P03410] interacts with 5 human partners:{Q04864;Q5TAX3;O75444;Q8NCF5;Q13469}

1552 Pathogen[ P14075] interacts with 5 human partners:{O75444;Q5TAX3;Q8NCF5;Q13469;Q04864}

1553 Pathogen[ P0C206] interacts with 5 human partners:{Q13469;O75444;Q8NCF5;Q04864;Q5TAX3}

1554 Pathogen[ P03363] interacts with 5 human partners:{O75444;Q5TAX3;Q13469;Q04864;Q8NCF5}

1555 [Cluster 142]GO:1901350+P

1556 Pathogen[ Q2Q067] interacts with 1 human partners:{Q07157}

1557 Pathogen[ P0C214] interacts with 1 human partners:{Q07157}

1558 Pathogen[ P03346] interacts with 1 human partners:{Q07157}

1559 Pathogen[ Q85601] interacts with 1 human partners:{Q07157}

1560 Pathogen[ P14079] interacts with 1 human partners:{Q07157}

1561 Pathogen[ P03383] interacts with 1 human partners:{Q07157}

1562 Pathogen[ P03410] interacts with 1 human partners:{Q07157}

1563 Pathogen[ P14075] interacts with 1 human partners:{Q07157}

1564 Pathogen[ P0C206] interacts with 1 human partners:{Q07157}

1565 Pathogen[ P03363] interacts with 1 human partners:{Q07157}

1566 [Cluster 143]GO:0006379+P biological\_process [name] mRNA cleavage [def] "Any process in which a pre-mRNA or mRNA molecule is cleaved at specific sites or in a regulated manner." [GOC

1567 Pathogen[ Q2Q067] interacts with 9 human partners:{P33240;Q10570;Q12996;Q05048;O94913;Q9UKV8;Q09161;Q9UKF6;O95707}

1568 Pathogen[ P0C214] interacts with 9 human partners:{Q12996;Q09161;O94913;Q9UKF6;Q05048;Q10570;O95707;P33240;Q9UKV8}

1569 Pathogen[ P03346] interacts with 9 human partners:{Q09161;Q9UKF6;O95707;Q05048;O94913;Q9UKV8;Q10570;Q12996;P33240}

1570 Pathogen[ Q85601] interacts with 8 human partners:{Q05048;O94913;Q09161;O95707;Q10570;Q9UKV8;Q9UKF6;P33240}

1571 Pathogen[ P14079] interacts with 9 human partners:{Q9UKV8;Q9UKF6;Q10570;P33240;O94913;O95707;Q05048;Q12996;Q09161}

1572 Pathogen[ P03383] interacts with 8 human partners:{Q05048;Q10570;Q9UKF6;Q09161;O95707;O94913;P33240;Q9UKV8}

1573 Pathogen[ P03410] interacts with 9 human partners:{Q10570;Q9UKV8;Q12996;Q05048;O95707;O94913;P33240;Q9UKF6;Q09161}

1574 Pathogen[ P14075] interacts with 8 human partners:{Q09161;P33240;Q05048;Q9UKV8;Q9UKF6;O95707;Q10570;O94913}

1575 Pathogen[ P0C206] interacts with 9 human partners:{P33240;Q9UKF6;Q09161;O94913;Q9UKV8;Q05048;O95707;Q12996;Q10570}

1576 Pathogen[ P03363] interacts with 9 human partners:{Q10570;Q05048;Q9UKV8;O94913;O95707;Q9UKF6;P33240;Q12996;Q09161}

1577 [Cluster 144]GO:0045686+P biological\_process [name] negative regulation of glial cell differentiation [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of glia cell differentiation." [GOC

1578 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9H9Z2}

1579 Pathogen[ P0C214] interacts with 1 human partners:{Q9H9Z2}

1580 Pathogen[ P03346] interacts with 2 human partners:{P78426;Q9H9Z2}

1581 Pathogen[ Q85601] interacts with 1 human partners:{Q9H9Z2}

1582 Pathogen[ P14079] interacts with 1 human partners:{Q9H9Z2}

1583 Pathogen[ P03383] interacts with 1 human partners:{Q9H9Z2}

1584 Pathogen[ P03410] interacts with 1 human partners:{Q9H9Z2}

1585 Pathogen[ P14075] interacts with 1 human partners:{Q9H9Z2}

1586 Pathogen[ P0C206] interacts with 1 human partners:{Q9H9Z2}

1587 Pathogen[ P03363] interacts with 2 human partners:{Q9H9Z2;Q9C056}

1588 [Cluster 145]GO:0035303+P biological\_process [name] regulation of dephosphorylation [def] "Any process that modulates the frequency, rate or extent of removal of phosphate groups from a molecule." [GOC

1589 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9UPR3;Q86US8;Q92540}

1590 Pathogen[ P0C214] interacts with 3 human partners:{Q92540;Q86US8;Q9UPR3}

1591 Pathogen[ P03346] interacts with 3 human partners:{Q9UPR3;Q86US8;Q92540}

1592 Pathogen[ Q85601] interacts with 3 human partners:{Q92540;Q86US8;Q9UPR3}

1593 Pathogen[ P14079] interacts with 3 human partners:{Q92540;Q86US8;Q9UPR3}

1594 Pathogen[ P03383] interacts with 3 human partners:{Q9UPR3;Q86US8;Q92540}

1595 Pathogen[ P03410] interacts with 3 human partners:{Q92540;Q9UPR3;Q86US8}

1596 Pathogen[ P14075] interacts with 3 human partners:{Q9UPR3;Q86US8;Q92540}

1597 Pathogen[ P0C206] interacts with 3 human partners:{Q86US8;Q9UPR3;Q92540}

1598 Pathogen[ P03363] interacts with 3 human partners:{Q86US8;Q9UPR3;Q92540}

1599 [Cluster 146]GO:0051654+P biological\_process [name] establishment of mitochondrion localization [def] "The directed movement of the mitochondrion to a specific location." [GOC

1600 Pathogen[ Q2Q067] interacts with 1 human partners:{Q99689}

1601 Pathogen[ P0C214] interacts with 1 human partners:{Q99689}

1602 Pathogen[ P03346] interacts with 1 human partners:{Q99689}

1603 Pathogen[ Q85601] interacts with 1 human partners:{Q99689}

1604 Pathogen[ P14079] interacts with 1 human partners:{Q99689}

1605 Pathogen[ P03383] interacts with 1 human partners:{Q99689}

1606 Pathogen[ P03410] interacts with 1 human partners:{Q99689}

1607 Pathogen[ P14075] interacts with 1 human partners:{Q99689}

1608 Pathogen[ P0C206] interacts with 1 human partners:{Q99689}

1609 Pathogen[ P03363] interacts with 1 human partners:{Q99689}

1610 [Cluster 147]GO:0045738+P biological\_process [name] negative regulation of DNA repair [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of DNA repair." [GOC

1611 Pathogen[ Q2Q067] interacts with 1 human partners:{P23396}



1612 Pathogen[ P0C214] interacts with 1 human partners:{P23396}

1613 Pathogen[ P03346] interacts with 1 human partners:{P23396}

1614 Pathogen[ Q85601] interacts with 1 human partners:{P23396}

1615 Pathogen[ P14079] interacts with 1 human partners:{P23396}

1616 Pathogen[ P03383] interacts with 1 human partners:{P23396}

1617 Pathogen[ P03410] interacts with 1 human partners:{P23396}

1618 Pathogen[ P14075] interacts with 1 human partners:{P23396}

1619 Pathogen[ P0C206] interacts with 1 human partners:{P23396}

1620 Pathogen[ P03363] interacts with 1 human partners:{P23396}

1621 [Cluster 148]GO:1901186+P

1622 Pathogen[ Q2Q067] interacts with 1 human partners:{Q06330}

1623 Pathogen[ P0C214] interacts with 1 human partners:{Q06330}

1624 Pathogen[ P03346] interacts with 1 human partners:{Q06330}

1625 Pathogen[ Q85601] interacts with 1 human partners:{Q06330}

1626 Pathogen[ P14079] interacts with 1 human partners:{Q06330}

1627 Pathogen[ P03383] interacts with 1 human partners:{Q06330}

1628 Pathogen[ P03410] interacts with 1 human partners:{Q06330}

1629 Pathogen[ P14075] interacts with 1 human partners:{Q06330}

1630 Pathogen[ P0C206] interacts with 1 human partners:{Q06330}

1631 Pathogen[ P03363] interacts with 1 human partners:{Q06330}

1632 [Cluster 149]GO:0051642+P biological\_process [name] centrosome localization [def]  
 "Any process in which a centrosome is transported to, and/or maintained in, a specific location within the cell." [GOC

1633 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9UH99;Q8IY31;Q8N4C6}

1634 Pathogen[ P0C214] interacts with 3 human partners:{Q8IY31;Q9UH99;Q8N4C6}

1635 Pathogen[ P03346] interacts with 5 human partners:{Q8IY31;Q8WXH0;Q9UH99;Q8TEW0;Q8N4C6}

1636 Pathogen[ Q85601] interacts with 4 human partners:{Q9UH99;Q8N4C6;Q9GZM8;Q8IY31}

1637 Pathogen[ P14079] interacts with 6 human partners:{Q8IY31;Q8TEW0;Q8N4C6;Q8WXH0;Q9GZM8;Q9UH99}

1638 Pathogen[ P03383] interacts with 3 human partners:{Q8IY31;Q9UH99;Q8N4C6}

1639 Pathogen[ P03410] interacts with 7 human partners:{Q9GZM8;Q9UH99;Q8IY31;Q8N4C6;Q8TEW0;Q8WXH0;O43237}

1640 Pathogen[ P14075] interacts with 3 human partners:{Q8IY31;Q9UH99;Q8N4C6}

1641 Pathogen[ P0C206] interacts with 7 human partners:{Q8IY31;Q9UH99;O43237;Q9GZM8;Q8TEW0;Q8WXH0;Q8N4C6}

1642 Pathogen[ P03363] interacts with 4 human partners:{Q8IY31;Q8N4C6;O43237;Q9UH99}

1643 [Cluster 150]GO:0043967+P biological\_process [name] histone H4 acetylation [def]  
 "The modification of histone H4 by the addition of an acetyl group." [GOC

1644 Pathogen[ Q2Q067] interacts with 11 human partners:{O00213;Q9Y4A5;Q9NXR8;Q9NPF5;O96019;Q15306;Q9UBU8;O95619;Q9H2F5;P15923;Q9H0E9}

1645 Pathogen[ P0C214] interacts with 10 human partners:{O00213;Q9H2F5;O95619;P15923;Q9UBU8;Q9Y4A5;Q9H0E9;O96019;Q9NPF5;Q15306}

1646 Pathogen[ P03346] interacts with 14 human partners:{O00213;Q15788;P15923;Q15306;Q9H0E9;O96019;Q9Y4A5;Q9UBU8;P51587;O95361;Q9H2F5;O95619;Q9NXR8;Q9NPF5}

1647 Pathogen[ Q85601] interacts with 12 human partners:{O95619;O00213;Q9H2F5;Q9Y4A5;Q9H0E9;Q9UBU8;Q15306;O96019;P15923;Q9NXR8;P51587;Q9NPF5}

1648 Pathogen[ P14079] interacts with 12 human partners:{Q9Y4A5;Q9UBU8;P51587;O00213;P15923;Q15306;Q9H0E9;Q9NPF5;Q15788;Q9H2F5;O95361;O95619}

1649 Pathogen[ P03383] interacts with 10 human partners:{O00213;O96019;Q9Y4A5;Q9H2F5;P15923;Q9UBU8;Q15306;Q9H0E9;Q9NPF5;O95619}

1650 Pathogen[ P03410] interacts with 12 human partners:{O95619;O96019;Q9NPF5;Q9UBU8;O00213;P15923;Q15306;Q9H2F5;Q9Y4A5;Q9NXR8;P51587;Q9H0E9}

1651 Pathogen[ P14075] interacts with 9 human partners:{O00213;Q9H2F5;Q9UBU8;O95619;Q9Y4A5;P15923;Q9NPF5;O96019;Q15306}

1652 Pathogen[ P0C206] interacts with 14 human partners:{Q9H2F5;Q9NPF5;Q9UBU8;P51587;Q15306;Q9NXR8;O00213;O96019;Q9Y4A5;O95619;P15923;O95361;Q15788;Q9H0E9}

1653 Pathogen[ P03363] interacts with 10 human partners:{Q9NPF5;O95619;O00213;Q9H2F5;Q15306;P15923;Q9UBU8;O96019;Q9Y4A5;Q9H0E9}

1654 [Cluster 151]GO:1900063+P

1655 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9GZY8}

1656 Pathogen[ P0C214] interacts with 1 human partners:{Q9GZY8}

1657 Pathogen[ P03346] interacts with 1 human partners:{Q9GZY8}

1658 Pathogen[ Q85601] interacts with 1 human partners:{Q9GZY8}

1659 Pathogen[ P14079] interacts with 2 human partners:{Q7Z434;Q9GZY8}

1660 Pathogen[ P03383] interacts with 1 human partners:{Q9GZY8}

1661 Pathogen[ P03410] interacts with 2 human partners:{Q9GZY8;Q7Z434}

1662 Pathogen[ P14075] interacts with 1 human partners:{Q9GZY8}

1663 Pathogen[ P0C206] interacts with 1 human partners:{Q9GZY8}

1664 Pathogen[ P03363] interacts with 1 human partners:{Q9GZY8}

1665 [Cluster 152]GO:0050873+P biological\_process [name] brown fat cell differentiation [def] "The process in which a relatively unspecialized cell acquires specialized features of a brown adipocyte, an animal connective tissue cell involved in adaptive thermogenesis. Brown adipocytes contain multiple small droplets of triglycerides and a high number of mitochondria." [PMID

1666 Pathogen[ Q2Q067] interacts with 6 human partners:{P41220;Q9HAZ2;P17676;Q12983;P14672;P49715}

1667 Pathogen[ P0C214] interacts with 5 human partners:{P41220;P17676;Q9HAZ2;Q12983;P14672}

1668 Pathogen[ P03346] interacts with 6 human partners:{P17676;Q12983;P49715;P41220;Q9HAZ2;P14672}

1669 Pathogen[ Q85601] interacts with 6 human partners:{P17676;P41220;P49715;Q12983;P14672;Q9HAZ2}

1670 Pathogen[ P14079] interacts with 9 human partners:{O75192;Q9HAZ2;Q0VDE8;P14672;P41220;P49715;Q12983;Q8TCY5;P02144}

1671 Pathogen[ P03383] interacts with 5 human partners:{P41220;Q12983;Q9HAZ2;P17676;P14672}

1672 Pathogen[ P03410] interacts with 7 human partners:{O75192;P02144;Q12983;Q9HAZ2;P17676;P41220;Q0VDE8}

1673 Pathogen[ P14075] interacts with 7 human partners:{Q12983;P41220;Q9HAZ2;Q0VDE8;O75192;P17676;P14672}

1674 Pathogen[ P0C206] interacts with 8 human partners:{O75192;Q9HAZ2;Q0VDE8;P49715;Q12983;P17676;P14672;P41220}

1675 Pathogen[ P03363] interacts with 5 human partners:{P17676;Q0VDE8;P41220;P14672;Q9HAZ2}

1676 [Cluster 153]GO:0045089+P biological\_process [name] positive regulation of innate immune response [def] "Any process that activates or increases the frequency, rate or extent of the innate immune response, the organism's first line of defense against infection." [GOC

1677 Pathogen[ Q2Q067] interacts with 5 human partners:{Q9BUI4;O15162;O15318;P05423;Q9H1D9}

1678 Pathogen[ P0C214] interacts with 6 human partners:{Q9BUI4;Q9H1D9;P05423;O15162;O15318;Q9NW08}

1679 Pathogen[ P03346] interacts with 5 human partners:{P05423;O15318;Q9H1D9;Q9BUI4;O15162}

1680 Pathogen[ Q85601] interacts with 6 human partners:{Q9H1D9;Q9BUI4;P05423;Q9NW08;O15162;O15318}

1681 Pathogen[ P14079] interacts with 6 human partners:{O15162;Q9NW08;Q9BUI4;P05423;O15318;Q9H1D9}

1682 Pathogen[ P03383] interacts with 3 human partners:{O15162;Q9H1D9;O15318}

1683 Pathogen[ P03410] interacts with 6 human partners:{O15318;O15162;Q9NW08;P05423;Q9H1D9;Q9BUI4}

1684 Pathogen[ P14075] interacts with 3 human partners:{O15162;Q9H1D9;O15318}

1685 Pathogen[ P0C206] interacts with 6 human partners:{Q9NW08;Q9BUI4;O15318;P05423;O15162;Q9H1D9}

1686 Pathogen[ P03363] interacts with 3 human partners:{Q9H1D9;P05423;O15318}

1687 [Cluster 154]GO:0045652+P biological\_process [name] regulation of megakaryocyte differentiation [def] "Any process that modulates the frequency, rate or extent of megakaryocyte differentiation." [GOC

1688 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9Y468}

1689 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y468}

1690 Pathogen[ P03346] interacts with 1 human partners:{Q9Y468}

1691 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y468}

1692 Pathogen[ P14079] interacts with 2 human partners:{Q06413;Q9Y468}

1693 Pathogen[ P03383] interacts with 1 human partners:{Q9Y468}

1694 Pathogen[ P03410] interacts with 1 human partners:{Q9Y468}

1695 Pathogen[ P14075] interacts with 1 human partners:{Q9Y468}

1696 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y468}

1697 Pathogen[ P03363] interacts with 1 human partners:{Q9Y468}

1698 [Cluster 155]GO:0007270+P biological\_process [name] neuron-neuron synaptic transmission [def] "The process of communication from a neuron to another neuron across a synapse." [GOC

1699 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9P1A6}

1700 Pathogen[ P0C214] interacts with 1 human partners:{Q9P1A6}

1701 Pathogen[ P03346] interacts with 1 human partners:{Q9P1A6}

1702 Pathogen[ Q85601] interacts with 1 human partners:{Q9P1A6}

1703 Pathogen[ P14079] interacts with 1 human partners:{Q9P1A6}

1704 Pathogen[ P03383] interacts with 1 human partners:{Q9P1A6}

1705 Pathogen[ P03410] interacts with 2 human partners:{Q9P1A6;O60333}

1706 Pathogen[ P14075] interacts with 1 human partners:{Q9P1A6}

1707 Pathogen[ P0C206] interacts with 1 human partners:{Q9P1A6}

1708 Pathogen[ P03363] interacts with 3 human partners:{Q9NZR1;O60333;Q9P1A6}

1709 [Cluster 156]GO:0016226+P biological\_process [name] iron-sulfur cluster assembly [def] "The incorporation of iron and exogenous sulfur into a metallo-sulfur cluster." [GOC

1710 Pathogen[ Q2Q067] interacts with 5 human

1711 partners:{Q8IWL3;Q9UMS0;Q96T76;A6NFY7;Q9H1K1}  
Pathogen[ P0C214] interacts with 6 human

1712 partners:{A6NFY7;Q9H6Q4;Q8IWL3;Q9H1K1;Q9UMS0;Q96T76}  
Pathogen[ P03346] interacts with 5 human

1713 partners:{Q9H1K1;Q9UMS0;A6NFY7;Q8IWL3;Q96T76}  
Pathogen[ Q85601] interacts with 6 human

1714 partners:{Q96T76;Q9UMS0;Q9H6Q4;A6NFY7;Q8IWL3;Q9H1K1}  
Pathogen[ P14079] interacts with 8 human

1715 partners:{Q8IWL3;Q9H1K1;Q86U28;Q9BUE6;Q9UMS0;Q9H6Q4;A6NFY7;Q96T76}  
Pathogen[ P03383] interacts with 6 human

1716 partners:{Q96T76;A6NFY7;Q9H1K1;Q9H6Q4;Q9UMS0;Q8IWL3}  
Pathogen[ P03410] interacts with 8 human

1717 partners:{Q96T76;A6NFY7;Q9H6Q4;Q9H1K1;Q9UMS0;Q8IWL3;Q86U28;Q9BUE6}  
Pathogen[ P14075] interacts with 5 human

1718 partners:{A6NFY7;Q9UMS0;Q8IWL3;Q96T76;Q9H1K1}  
Pathogen[ P0C206] interacts with 8 human

1719 partners:{Q9H1K1;A6NFY7;Q86U28;Q96T76;Q9H6Q4;Q8IWL3;Q9UMS0;Q9BUE6}  
Pathogen[ P03363] interacts with 5 human

1720 partners:{Q9UMS0;A6NFY7;Q96T76;Q8IWL3;Q9H1K1}  
[Cluster 157]GO:0006486+P biological\_process [name] protein glycosylation [def] "A protein modification process that results in the addition of a sugar unit to a protein amino acid, e.g. the addition of glycan chains to proteins." [GOC

1721 Pathogen[ Q2Q067] interacts with 3 human partners:{P83436;Q14746;Q96JB2}  
1722 Pathogen[ P0C214] interacts with 7 human  
partners:{Q14746;P29728;P83436;Q86SQ9;Q9Y2G5;O15305;Q96JB2}

1723 Pathogen[ P03346] interacts with 4 human partners:{Q14746;Q96JB2;Q86SQ9;P83436}  
1724 Pathogen[ Q85601] interacts with 4 human partners:{Q14746;Q96JB2;P83436;Q86SQ9}  
1725 Pathogen[ P14079] interacts with 19 human  
partners:{Q14746;O43505;P83436;O15305;P29728;P39656;Q9BT22;Q86SQ9;Q9NYU1;Q9H488;Q3V5  
L5;Q9NYU2;Q9Y6X1;P61803;Q8NBL1;Q96JB2;Q9Y2G5;Q9UBM8;P46977}

1726 Pathogen[ P03383] interacts with 3 human partners:{Q14746;P83436;Q96JB2}  
1727 Pathogen[ P03410] interacts with 17 human  
partners:{Q3V5L5;Q96JB2;P29728;Q9Y6X1;Q9NYU1;Q86SQ9;Q9BT22;O15305;Q14746;P83436;P396  
56;Q9Y2G5;Q9H488;P61803;Q8NHY0;O43505;Q9NYU2}

1728 Pathogen[ P14075] interacts with 5 human  
partners:{Q14746;Q96JB2;O43505;Q9Y2G5;P83436}  
1729 Pathogen[ P0C206] interacts with 8 human  
partners:{P83436;P39656;P29728;Q96JB2;Q14746;Q86SQ9;Q9Y2G5;O43505}

1730 Pathogen[ P03363] interacts with 3 human partners:{P83436;Q14746;Q96JB2}

1731 [Cluster 158]GO:0032720+P biological\_process [name] negative regulation of tumor necrosis factor production [def] "Any process that stops, prevents, or reduces the frequency, rate, or extent of tumor necrosis factor production." [GOC

1732 Pathogen[ Q2Q067] interacts with 7 human  
partners:{Q8WUQ7;Q00613;O60543;P14373;Q8WVJ9;Q9UBC1;Q9BQE4}  
1733 Pathogen[ P0C214] interacts with 6 human  
partners:{Q00613;O60543;Q8WVJ9;P14373;Q9BQE4;Q9UBC1}

1734 Pathogen[ P03346] interacts with 6 human  
partners:{P14373;Q00613;Q8WVJ9;Q9UBC1;O60543;Q8WUQ7}  
1735 Pathogen[ Q85601] interacts with 6 human  
partners:{P14373;Q00613;O60543;Q8WVJ9;Q9BQE4;Q9UBC1}

1736 Pathogen[ P14079] interacts with 7 human  
partners:{P14373;Q9BQE4;O60543;Q8WVJ9;Q9UBC1;Q00613;Q8WUQ7}  
1737 Pathogen[ P03383] interacts with 6 human  
partners:{O60543;Q8WVJ9;Q9UBC1;Q9BQE4;Q00613;Q8WUQ7}

1738 Pathogen[ P03410] interacts with 6 human  
partners:{Q8WUQ7;Q00613;Q8WVJ9;Q9BQE4;Q9UBC1;O60543}  
1739 Pathogen[ P14075] interacts with 6 human  
partners:{Q9BQE4;Q00613;Q8WVJ9;Q9UBC1;O60543;Q8WUQ7}

1740 Pathogen[ P0C206] interacts with 7 human  
partners:{Q9UBC1;Q00613;Q8WVJ9;Q8WUQ7;Q9BQE4;O60543;P14373}  
1741 Pathogen[ P03363] interacts with 6 human  
partners:{O60543;P14373;Q8WUQ7;Q00613;Q9UBC1;Q8WVJ9}

1742 [Cluster 159]GO:0042088+P biological\_process [name] T-helper 1 type immune response [def] "An immune response which is associated with resistance to intracellular bacteria, fungi, and protozoa, and pathological conditions such as arthritis, and which is typically orchestrated by the production of particular cytokines by T-helper 1 cells, most notably interferon-gamma, IL-2, and lymphotoxin." [GOC

1743 Pathogen[ Q2Q067] interacts with 2 human partners:{P20749;Q01201}  
1744 Pathogen[ P0C214] interacts with 2 human partners:{Q01201;P20749}  
1745 Pathogen[ P03346] interacts with 2 human partners:{Q01201;P20749}  
1746 Pathogen[ Q85601] interacts with 2 human partners:{Q01201;P20749}  
1747 Pathogen[ P14079] interacts with 2 human partners:{Q01201;P20749}  
1748 Pathogen[ P03383] interacts with 2 human partners:{P20749;Q01201}  
1749 Pathogen[ P03410] interacts with 2 human partners:{P20749;Q01201}  
1750 Pathogen[ P14075] interacts with 2 human partners:{Q01201;P20749}  
1751 Pathogen[ P0C206] interacts with 2 human partners:{Q01201;P20749}

1752 Pathogen[ P03363] interacts with 2 human partners:{P20749;Q01201}

1753 [Cluster 160]GO:0051607+P biological\_process [name] defense response to virus  
[def] "Reactions triggered in response to the presence of a virus that act to protect  
the cell or organism." [GOC

1754 Pathogen[ Q2Q067] interacts with 38 human  
partners:{Q9Y473;Q96J02;Q14258;Q9Y6K5;Q8IUC6;Q9NQT4;Q9UII4;Q16666;P09913;Q92985;Q042  
06;O60238;Q14457;Q13158;Q9NPD3;Q00978;Q7Z2W4;Q9BUI4;O15162;Q14653;P10914;Q9NVU0;Q153  
66;P09914;O15318;Q9C035;P52630;Q12983;Q9BYX4;Q86WI3;Q9Y535;Q13568;P05423;Q9HC16;O148  
02;P42224;Q9H1D9;O14879}

1755 Pathogen[ P0C214] interacts with 44 human  
partners:{Q9NVU0;Q9Y3Z3;Q96J02;P09914;P09913;Q9BUI4;Q9Y473;Q13568;Q8IUC6;Q99698;O14879;Q9NV  
U0;Q13158;Q9C035;Q86WI3;Q9Y6K5;P29728;Q9H1D9;Q04206;P42224;P10914;Q16666;Q9BYX4;Q009  
78;Q15366;P05423;Q8WXG1;Q9Y3Z3;Q7Z2W4;Q14258;Q9HC16;Q92985;Q9NPD3;O15162;Q9UII4;O153  
18;Q9NW08;Q14653;Q12983;Q9Y535;O60238;Q86WV6;P52630;Q9NQT4;O14802}

1756 Pathogen[ P03346] interacts with 42 human  
partners:{Q9NVU0;Q9Y3Z3;Q96J02;Q99698;Q16666;Q15366;Q14258;Q13158;O60238;P05423;Q9UI  
I4;Q04206;Q9C035;Q14457;Q00978;Q12983;O15318;Q8IYM9;Q15646;P10914;Q86WI3;Q9H1D9;O148  
79;Q9Y535;P42224;Q9BUI4;Q14653;Q13568;Q9BYX4;Q8IUC6;P09913;Q70J99;Q92985;P09914;P526  
30;Q9Y473;Q9NQT4;Q9NPD3;O14802;Q9Y6K5;Q7Z2W4;O15162}

1757 Pathogen[ Q85601] interacts with 42 human  
partners:{Q14457;Q96J02;Q86WV6;Q16666;P09913;Q9NPD3;Q14258;Q9H1D9;Q8IUC6;O14879;Q131  
58;Q9Y535;Q9BUI4;Q9HC16;Q9Y2Y1;Q7Z2W4;Q86WI3;Q00978;P05423;Q9NVU0;P10914;P52630;Q146  
53;Q9Y6K5;Q9NQT4;Q04206;Q8IYM9;Q9BYX4;Q92985;P42224;Q9C035;Q9NW08;P09914;Q12983;Q9Y4  
73;O15162;O60238;Q13568;O14802;O15318;Q15366;Q99698}

1758 Pathogen[ P14079] interacts with 51 human  
partners:{P13164;O15162;P41238;Q9BYX4;P52630;P29728;Q14653;Q9C035;P09914;Q7Z2W4;Q9NW  
08;P31941;Q8IUC6;Q92985;Q9NQT4;Q9HC16;Q9NPD3;Q14258;Q7Z434;P09913;Q13568;Q9Y3Z3;Q86W  
V6;Q9BUI4;P05423;Q9Y473;Q9Y6K5;Q15366;Q12983;Q9Y2Y1;Q8IU54;Q96J02;P42224;Q13158;Q96A  
Z6;Q9NVU0;Q00978;A8MW95;Q86WI3;O14802;O15318;Q99698;Q14457;O60238;Q9H1D9;O14879;Q96C  
10;Q9Y535;P10914;Q16666;Q8WXG1}

1759 Pathogen[ P03383] interacts with 30 human  
partners:{Q14457;O14879;P10914;Q14653;Q15366;Q8IUC6;O15162;Q9Y535;P52630;Q00978;Q131  
58;Q9H1D9;Q12983;Q9NVU0;P09913;Q92985;O60238;Q9C035;Q9NPD3;Q13568;Q9NQT4;Q16666;Q9Y6  
K5;Q86WI3;Q04206;O15318;Q14258;O14802;Q9Y473;Q7Z2W4}

1760 Pathogen[ P03410] interacts with 51 human  
partners:{Q04206;Q16666;Q12983;P29728;Q70J99;P41238;Q14653;Q9BYX4;Q14457;Q15366;Q135  
68;Q14258;O15318;Q9Y535;Q8WXG1;Q7Z434;Q13158;O15162;Q86WI3;Q9HC16;Q9C035;Q9NW08;Q7Z2  
W4;Q96AZ6;P10914;P05423;Q9NQT4;Q9NRW3;Q9Y2Y1;Q9Y6K5;P09913;P31941;P52630;Q96C10;Q996  
98;Q8IUC6;Q9H1D9;Q86WV6;Q9NPD3;Q9NVU0;Q9Y3Z3;Q92985;O14879;A8MW95;P09914;O14802;Q009  
78;Q6NTF7;Q9BUI4;O60238;Q9Y473}

1761 Pathogen[ P14075] interacts with 30 human  
partners:{Q9NVU0;Q14457;P52630;Q15366;Q12983;Q04206;P09913;Q86WI3;Q9NPD3;O15162;Q009  
78;Q16666;Q13568;Q9NQT4;Q14653;Q9H1D9;O60238;Q9Y535;Q13158;Q9Y6K5;Q9C035;Q14258;Q7Z2  
W4;Q8IUC6;O14879;Q9Y473;Q92985;P10914;O14802;O15318}

1762 Pathogen[ P0C206] interacts with 49 human  
partners:{P10914;Q13568;Q86WI3;Q9NPD3;Q14258;Q9Y6K5;Q9NW08;Q96J02;O14879;Q14457;Q166  
66;P29728;Q99698;Q9BUI4;Q86WV6;Q13158;O15318;Q9Y535;A8MW95;O60238;P05423;Q9NVU0;Q129  
83;Q92985;Q04206;P09913;Q9C035;P31941;Q15366;Q6NTF7;Q8IUC6;Q00978;O15162;Q8IYM9;Q9HC  
16;Q9NQT4;Q9BYX4;P41238;Q96C10;Q9Y473;Q7Z2W4;O14802;P42224;Q9Y2Y1;Q8WXG1;Q9H1D9;P526  
30;Q14653;P09914}

1763 Pathogen[ P03363] interacts with 33 human  
partners:{Q9NQT4;Q14653;Q9Y6K5;P52630;Q9Y535;Q15366;Q92985;Q04206;Q8IY21;Q14457;P099  
14;Q14258;P09913;Q9NVU0;Q7Z2W4;Q9H1D9;Q13568;Q13158;Q9NPD3;O14879;Q16666;Q99698;P054  
23;O15318;Q86WI3;P10914;Q9C035;Q9Y3Z3;Q00978;Q9BYX4;O60238;Q9Y473;Q9UII4}

1764 [Cluster 161]GO:0048384+P biological\_process [name] retinoic acid receptor signaling  
pathway [def] "The series of molecular signals generated as a consequence of a retinoic  
acid receptor binding to one of its physiological ligands." [GOC

1765 Pathogen[ Q2Q067] interacts with 7 human  
partners:{Q13573;Q8IZD2;P62508;P28702;P55055;Q03060;P23497}

1766 Pathogen[ P0C214] interacts with 5 human  
partners:{Q13573;P23497;Q03060;P62508;Q8IZD2}

1767 Pathogen[ P03346] interacts with 9 human  
partners:{Q7RTS3;P48443;P28702;P62508;Q03060;P23497;Q13573;Q8IZD2;P55055}

1768 Pathogen[ Q85601] interacts with 6 human  
partners:{Q13573;P28702;P55055;P62508;Q03060;Q8IZD2}

1769 Pathogen[ P14079] interacts with 7 human  
partners:{P62508;P55055;Q03060;Q13573;P48443;P23497;P28702}

1770 Pathogen[ P03383] interacts with 5 human  
partners:{Q13573;P28702;P23497;P62508;Q03060}

1771 Pathogen[ P03410] interacts with 4 human partners:{Q03060;P62508;P28702;Q13573}

1772 Pathogen[ P14075] interacts with 5 human  
partners:{P23497;Q13573;P28702;Q03060;P62508}

1773 Pathogen[ P0C206] interacts with 7 human  
partners:{Q03060;P55055;P62508;Q13573;P28702;Q8IZD2;P48443}

1774 Pathogen[ P03363] interacts with 6 human  
partners:{P62508;Q7RTS3;P23497;P28702;Q13573;Q03060}

1775 [Cluster 162]GO:0051457+P biological\_process [name] maintenance of protein location in nucleus [def] "Any process in which a protein is maintained in the nucleus and prevented from moving elsewhere. These include sequestration within the nucleus, protein stabilization to prevent transport elsewhere and the active retrieval of proteins that escape the nucleus." [GOC

1776 Pathogen[ Q2Q067] interacts with 6 human partners:{Q9Y2Y0;Q9NS56;P20749;Q7Z7C8;O94864;Q5VWG9}

1777 Pathogen[ P0C214] interacts with 7 human partners:{Q9NS56;Q7Z7C8;O94864;Q5VWG9;P20749;Q9Y2Y0;P36404}

1778 Pathogen[ P03346] interacts with 9 human partners:{Q14149;Q7Z7C8;Q9NS56;O94864;P36404;P20749;Q9Y2Y0;Q5VWG9;Q13285}

1779 Pathogen[ Q85601] interacts with 7 human partners:{O94864;Q9NS56;Q7Z7C8;Q9Y2Y0;Q14149;Q5VWG9;P20749}

1780 Pathogen[ P14079] interacts with 6 human partners:{Q9Y2Y0;O94864;Q14149;Q9NS56;P20749;Q5VWG9}

1781 Pathogen[ P03383] interacts with 4 human partners:{Q9Y2Y0;O94864;P20749;Q5VWG9}

1782 Pathogen[ P03410] interacts with 5 human partners:{P20749;Q5VWG9;Q14149;O94864;Q9Y2Y0}

1783 Pathogen[ P14075] interacts with 5 human partners:{Q9Y2Y0;Q7Z7C8;Q5VWG9;O94864;P20749}

1784 Pathogen[ P0C206] interacts with 7 human partners:{Q9NS56;O94864;Q14149;Q5VWG9;P20749;Q7Z7C8;Q9Y2Y0}

1785 Pathogen[ P03363] interacts with 5 human partners:{O94864;P20749;Q7Z7C8;Q9Y2Y0;Q5VWG9}

1786 [Cluster 163]GO:0045666+P biological\_process [name] positive regulation of neuron differentiation [def] "Any process that activates or increases the frequency, rate or extent of neuron differentiation." [GOC

1787 Pathogen[ Q2Q067] interacts with 14 human partners:{Q13562;P15884;Q99081;Q12982;Q9NQ87;P37275;Q9Y4Z2;Q9UBC3;Q9H9Z2;Q15583;Q9NSC2;Q99689;P15923;P61586}

1788 Pathogen[ P0C214] interacts with 11 human partners:{P31249;Q99081;P15884;P61586;P37275;P15923;Q12982;Q99689;Q9NSC2;Q9H9Z2;Q9NQ87}

1789 Pathogen[ P03346] interacts with 24 human partners:{Q99081;P31249;Q9Y4Z2;Q15788;Q693B1;P78415;Q99689;Q15583;Q9NSC2;P15923;Q92858;Q92886;Q9UBC3;P78426;O95096;P37275;Q9NQ87;Q9H8V3;Q9H9Z2;Q12982;Q13562;P15884;P61586;Q9H2A3}

1790 Pathogen[ Q85601] interacts with 15 human partners:{Q9Y4Z2;Q12982;Q15583;Q13562;Q9NQ87;Q99689;P61586;P15923;P31249;P37275;Q99081;Q9NSC2;Q9H9Z2;P15884;Q9UBC3}

1791 Pathogen[ P14079] interacts with 18 human partners:{Q12982;Q06413;Q1HG43;Q15583;P15923;Q9H9Z2;Q9UBC3;Q99689;P61158;P61586;Q15788;Q9H8V3;P31249;P15884;Q9NQ87;Q99081;P37275;Q9NSC2}

1792 Pathogen[ P03383] interacts with 9 human partners:{Q9H9Z2;Q99689;P37275;Q9NQ87;P15923;P31249;P61586;Q99081;Q9NSC2}

1793 Pathogen[ P03410] interacts with 15 human partners:{P37275;Q1HG43;Q9NQ87;P15884;P31249;P15923;Q99081;Q15583;P61586;Q9UBC3;Q12982;Q9H9Z2;Q9H8V3;Q9NSC2;Q99689}

1794 Pathogen[ P14075] interacts with 10 human partners:{Q9NSC2;Q9H9Z2;P31249;Q9NQ87;P15923;P61586;P15884;P37275;Q99081;Q99689}

1795 Pathogen[ P0C206] interacts with 20 human partners:{Q12982;Q9NQ87;Q9NSC2;Q9Y4Z2;P61586;Q99689;Q9H9Z2;Q1HG43;Q693B1;Q99081;P15923;P15884;Q9H8V3;Q13562;P37275;Q9UBC3;P31249;Q15788;Q15583;Q9H2A3}

1796 Pathogen[ P03363] interacts with 16 human partners:{Q92886;Q9Y4Z2;P78415;P37275;Q9NQ87;P31249;P15923;Q9H9Z2;Q15583;P15884;Q99081;Q9UBC3;Q12982;Q693B1;Q99689;Q9H2A3}

1797 [Cluster 164]GO:0071398+P biological\_process [name] cellular response to fatty acid [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a fatty acid stimulus." [GOC

1798 Pathogen[ Q2Q067] interacts with 4 human partners:{Q01094;P14635;Q7Z2X4;P27986}

1799 Pathogen[ P0C214] interacts with 4 human partners:{P14635;Q7Z2X4;Q01094;P27986}

1800 Pathogen[ P03346] interacts with 4 human partners:{Q7Z2X4;Q01094;P14635;P27986}

1801 Pathogen[ Q85601] interacts with 4 human partners:{Q7Z2X4;P27986;P14635;Q01094}

1802 Pathogen[ P14079] interacts with 3 human partners:{P14635;Q7Z2X4;Q01094}

1803 Pathogen[ P03383] interacts with 3 human partners:{P27986;Q01094;P14635}

1804 Pathogen[ P03410] interacts with 4 human partners:{P27986;P14635;Q7Z2X4;Q01094}

1805 Pathogen[ P14075] interacts with 3 human partners:{P14635;P27986;Q01094}

1806 Pathogen[ P0C206] interacts with 4 human partners:{Q7Z2X4;P27986;Q01094;P14635}

1807 Pathogen[ P03363] interacts with 2 human partners:{Q01094;P27986}

1808 [Cluster 165]GO:0010942+P biological\_process [name] positive regulation of cell death [def] "Any process that increases the rate or frequency of cell death. Cell death is the specific activation or halting of processes within a cell so that its vital functions markedly cease, rather than simply deteriorating gradually over time, which culminates in cell death." [GOC

1809 Pathogen[ Q2Q067] interacts with 6 human

1810 partners:{P04198;P68871;P10914;P69905;P46527;Q9BRK4}  
Pathogen[ P0C214] interacts with 6 human

1811 partners:{Q9BRK4;P46527;P69905;P10914;P68871;P04198}  
Pathogen[ P03346] interacts with 6 human

1812 partners:{P69905;Q9BRK4;P10914;P68871;P04198;P46527}  
Pathogen[ Q85601] interacts with 7 human

1813 partners:{P69905;P10914;Q9BRK4;Q9BVA0;P68871;P04198;P46527}  
Pathogen[ P14079] interacts with 7 human

1814 partners:{P69905;P68871;P04198;P46527;Q9BVA0;Q9BRK4;P10914}  
Pathogen[ P03383] interacts with 6 human

1815 partners:{Q9BRK4;P10914;P69905;P68871;P46527;P04198}  
Pathogen[ P03410] interacts with 6 human

1816 partners:{P46527;P68871;P10914;P69905;P04198;Q9BVA0}  
Pathogen[ P14075] interacts with 6 human

1817 partners:{P68871;P04198;P46527;Q9BRK4;P10914;P69905}  
Pathogen[ P0C206] interacts with 6 human

1818 partners:{P68871;P10914;Q9BVA0;P69905;P46527;P04198}  
Pathogen[ P03363] interacts with 5 human

1819 partners:{P69905;P68871;Q9BRK4;P04198;P10914}  
[Cluster 166]GO:0042094+P biological\_process [name] interleukin-2 biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of interleukin-2." [GOC

1820 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96IZ0}  
1821 Pathogen[ P0C214] interacts with 1 human partners:{Q96IZ0}  
1822 Pathogen[ P03346] interacts with 1 human partners:{Q96IZ0}  
1823 Pathogen[ Q85601] interacts with 1 human partners:{Q96IZ0}  
1824 Pathogen[ P14079] interacts with 1 human partners:{Q96IZ0}  
1825 Pathogen[ P03383] interacts with 1 human partners:{Q96IZ0}  
1826 Pathogen[ P03410] interacts with 1 human partners:{Q96IZ0}  
1827 Pathogen[ P14075] interacts with 1 human partners:{Q96IZ0}  
1828 Pathogen[ P0C206] interacts with 1 human partners:{Q96IZ0}  
1829 Pathogen[ P03363] interacts with 1 human partners:{Q96IZ0}

1830 [Cluster 167]GO:0043383+P biological\_process [name] negative T cell selection [def] "The process of elimination of immature T cells which react strongly with self-antigens." [ISBN

1831 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8N1K5}  
1832 Pathogen[ P0C214] interacts with 1 human partners:{Q8N1K5}  
1833 Pathogen[ P03346] interacts with 1 human partners:{Q8N1K5}  
1834 Pathogen[ Q85601] interacts with 1 human partners:{Q8N1K5}  
1835 Pathogen[ P14079] interacts with 1 human partners:{Q8N1K5}  
1836 Pathogen[ P03383] interacts with 1 human partners:{Q8N1K5}  
1837 Pathogen[ P03410] interacts with 1 human partners:{Q8N1K5}  
1838 Pathogen[ P14075] interacts with 1 human partners:{Q8N1K5}  
1839 Pathogen[ P0C206] interacts with 1 human partners:{Q8N1K5}  
1840 Pathogen[ P03363] interacts with 1 human partners:{Q8N1K5}

1841 [Cluster 168]GO:0042592+P biological\_process [name] homeostatic process [def] "Any biological process involved in the maintenance of an internal steady state." [GOC

1842 Pathogen[ Q2Q067] interacts with 2 human partners:{Q92793;Q15797}  
1843 Pathogen[ P0C214] interacts with 2 human partners:{Q92793;Q15797}  
1844 Pathogen[ P03346] interacts with 3 human partners:{Q15797;Q92793;O00482}  
1845 Pathogen[ Q85601] interacts with 3 human partners:{Q15797;O00482;Q92793}  
1846 Pathogen[ P14079] interacts with 3 human partners:{Q92793;Q15797;O00482}  
1847 Pathogen[ P03383] interacts with 2 human partners:{Q15797;Q92793}  
1848 Pathogen[ P03410] interacts with 2 human partners:{Q92793;Q15797}  
1849 Pathogen[ P14075] interacts with 1 human partners:{Q92793}  
1850 Pathogen[ P0C206] interacts with 3 human partners:{O00482;Q92793;Q15797}  
1851 Pathogen[ P03363] interacts with 3 human partners:{Q15797;Q92793;O00482}

1852 [Cluster 169]GO:0010868+P biological\_process [name] negative regulation of triglyceride biosynthetic process [def] "Any process that decreases the rate, frequency, or extent of triglyceride biosynthesis. Triglyceride biosynthesis is the collection of chemical reactions and pathways resulting in the formation of triglyceride, any triester of glycerol." [GOC

1853 Pathogen[ Q2Q067] interacts with 1 human partners:{Q969H0}  
1854 Pathogen[ P0C214] interacts with 1 human partners:{Q969H0}  
1855 Pathogen[ P03346] interacts with 1 human partners:{Q969H0}  
1856 Pathogen[ Q85601] interacts with 1 human partners:{Q969H0}  
1857 Pathogen[ P14079] interacts with 1 human partners:{Q969H0}  
1858 Pathogen[ P03383] interacts with 1 human partners:{Q969H0}  
1859 Pathogen[ P03410] interacts with 1 human partners:{Q969H0}  
1860 Pathogen[ P14075] interacts with 1 human partners:{Q969H0}  
1861 Pathogen[ P0C206] interacts with 1 human partners:{Q969H0}  
1862 Pathogen[ P03363] interacts with 1 human partners:{Q969H0}

1863 [Cluster 170]GO:0046833+P biological\_process [name] positive regulation of RNA export from nucleus [def] "Any process that activates or increases the frequency, rate or extent of directed movement of RNA from the nucleus into the cytoplasm." [GOC

1864 Pathogen[ Q2Q067] interacts with 1 human partners:{P52298}

1865 Pathogen[ P0C214] interacts with 1 human partners:{P52298}  
1866 Pathogen[ P03346] interacts with 1 human partners:{P52298}  
1867 Pathogen[ Q85601] interacts with 1 human partners:{P52298}  
1868 Pathogen[ P14079] interacts with 1 human partners:{P52298}  
1869 Pathogen[ P03383] interacts with 1 human partners:{P52298}  
1870 Pathogen[ P03410] interacts with 1 human partners:{P52298}  
1871 Pathogen[ P14075] interacts with 1 human partners:{P52298}  
1872 Pathogen[ P0C206] interacts with 1 human partners:{P52298}  
1873 Pathogen[ P03363] interacts with 1 human partners:{P52298}  
1874 [Cluster 171]GO:0016075+P biological\_process [name] rRNA catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of rRNA, ribosomal RNA, a structural constituent of ribosomes." [GOC  
1875 Pathogen[ Q2Q067] interacts with 5 human  
partners:{Q8IZH2;Q9Y2L1;Q8WXF8;Q9NRR4;Q8TF46}  
1876 Pathogen[ P0C214] interacts with 5 human  
partners:{Q8WXF8;Q9Y2L1;Q8TF46;Q8IZH2;Q9NRR4}  
1877 Pathogen[ P03346] interacts with 5 human  
partners:{Q8WXF8;Q8IZH2;Q9Y2L1;Q9NRR4;Q8TF46}  
1878 Pathogen[ Q85601] interacts with 5 human  
partners:{Q9NRR4;Q9Y2L1;Q8IZH2;Q8WXF8;Q8TF46}  
1879 Pathogen[ P14079] interacts with 5 human  
partners:{Q8TF46;Q8IZH2;Q9NRR4;Q9Y2L1;Q8WXF8}  
1880 Pathogen[ P03383] interacts with 3 human partners:{Q9NRR4;Q9Y2L1;Q8WXF8}  
1881 Pathogen[ P03410] interacts with 5 human  
partners:{Q9Y2L1;Q8WXF8;Q8TF46;Q9NRR4;Q8IZH2}  
1882 Pathogen[ P14075] interacts with 3 human partners:{Q9Y2L1;Q8WXF8;Q9NRR4}  
1883 Pathogen[ P0C206] interacts with 5 human  
partners:{Q8IZH2;Q8WXF8;Q9NRR4;Q9Y2L1;Q8TF46}  
1884 Pathogen[ P03363] interacts with 5 human  
partners:{Q9Y2L1;Q9NRR4;Q8TF46;Q8WXF8;Q8IZH2}  
1885 [Cluster 172]GO:0032092+P biological\_process [name] positive regulation of protein  
binding [def] "Any process that activates or increases the frequency, rate or extent of  
protein binding." [GOC  
1886 Pathogen[ Q2Q067] interacts with 7 human  
partners:{Q8IUC6;P62826;Q6VY07;P11171;Q9H8T0;O00255;Q96RU7}  
1887 Pathogen[ P0C214] interacts with 9 human  
partners:{Q8IUC6;P34932;Q9H8T0;Q6VY07;P62826;Q96RU7;Q86WV6;P11171;O00255}  
1888 Pathogen[ P03346] interacts with 10 human  
partners:{P02549;P62826;P11171;Q9H8T0;O00255;O00522;Q96RU7;Q8IUC6;P34932;Q6VY07}  
1889 Pathogen[ Q85601] interacts with 9 human  
partners:{Q86WV6;Q8IUC6;P62826;P11171;Q9H8T0;Q6VY07;O00255;Q96RU7;P34932}  
1890 Pathogen[ P14079] interacts with 14 human  
partners:{Q6VY07;P11171;Q8IUC6;Q9H8T0;P35611;Q86WV6;Q96RU7;Q05682;Q15011;P62826;P025  
49;O00255;Q13145;O00522}  
1891 Pathogen[ P03383] interacts with 6 human  
partners:{Q8IUC6;Q6VY07;P62826;Q9H8T0;O00255;Q96RU7}  
1892 Pathogen[ P03410] interacts with 14 human  
partners:{Q05682;Q13145;Q9H8T0;P02549;P11171;P62826;O00522;Q96RU7;Q8IUC6;Q86WV6;Q150  
11;O00255;Q6VY07;P35611}  
1893 Pathogen[ P14075] interacts with 8 human  
partners:{O00255;Q9H8T0;P62826;Q96RU7;Q8IUC6;Q15011;P11171;Q6VY07}  
1894 Pathogen[ P0C206] interacts with 11 human  
partners:{Q9H8T0;P34932;O00255;P62826;Q86WV6;Q96RU7;Q6VY07;Q15011;Q8IUC6;O00522;P111  
71}  
1895 Pathogen[ P03363] interacts with 7 human  
partners:{P02549;Q6VY07;P34932;O00522;P11171;Q9H8T0;P62826}  
1896 [Cluster 173]GO:0050775+P biological\_process [name] positive regulation of dendrite  
morphogenesis [def] "Any process that activates or increases the frequency, rate or  
extent of dendrite morphogenesis." [GOC  
1897 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9UJX6;Q15797}  
1898 Pathogen[ P0C214] interacts with 2 human partners:{Q9UJX6;Q15797}  
1899 Pathogen[ P03346] interacts with 3 human partners:{Q15797;Q9UJX6;Q9Y6R0}  
1900 Pathogen[ Q85601] interacts with 2 human partners:{Q9UJX6;Q15797}  
1901 Pathogen[ P14079] interacts with 5 human  
partners:{P24588;Q14444;Q15797;P61158;Q9UJX6}  
1902 Pathogen[ P03383] interacts with 2 human partners:{Q9UJX6;Q15797}  
1903 Pathogen[ P03410] interacts with 3 human partners:{Q15797;Q9UJX6;P24588}  
1904 Pathogen[ P14075] interacts with 1 human partners:{Q9UJX6}  
1905 Pathogen[ P0C206] interacts with 2 human partners:{Q9UJX6;Q15797}  
1906 Pathogen[ P03363] interacts with 3 human partners:{Q15797;Q9UJX6;Q9Y6R0}  
1907 [Cluster 174]GO:0032057+P biological\_process [name] negative regulation of  
translational initiation in response to stress [def] "Any process that stops, prevents  
or reduces the rate of translation initiation as a result of a stimulus indicating the  
organism is under stress." [GOC  
1908 Pathogen[ Q2Q067] interacts with 4 human partners:{Q9UI10;Q14232;Q9NR50;Q13144}  
1909 Pathogen[ P0C214] interacts with 4 human partners:{Q9UI10;Q14232;Q9NR50;Q13144}

1910 Pathogen[ P03346] interacts with 4 human partners:{Q14232;Q13144;Q9NR50;Q9UI10}

1911 Pathogen[ Q85601] interacts with 4 human partners:{Q9NR50;Q13144;Q14232;Q9UI10}

1912 Pathogen[ P14079] interacts with 4 human partners:{Q9UI10;Q13144;Q9NR50;Q14232}

1913 Pathogen[ P03383] interacts with 4 human partners:{Q9UI10;Q13144;Q9NR50;Q14232}

1914 Pathogen[ P03410] interacts with 4 human partners:{Q9NR50;Q14232;Q9UI10;Q13144}

1915 Pathogen[ P14075] interacts with 4 human partners:{Q9UI10;Q14232;Q9NR50;Q13144}

1916 Pathogen[ P0C206] interacts with 4 human partners:{Q14232;Q9NR50;Q13144;Q9UI10}

1917 Pathogen[ P03363] interacts with 3 human partners:{Q9UI10;Q9NR50;Q13144}

1918 [Cluster 175]GO:2000114+P biological\_process [name] regulation of establishment of cell polarity [def] "Any process that modulates the frequency, rate or extent of establishment of cell polarity." [GOC

1919 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9Y6D6;Q14678}

1920 Pathogen[ P0C214] interacts with 2 human partners:{Q14678;Q9Y6D6}

1921 Pathogen[ P03346] interacts with 3 human partners:{Q14678;Q9Y6D6;O00522}

1922 Pathogen[ Q85601] interacts with 2 human partners:{Q14678;Q9Y6D6}

1923 Pathogen[ P14079] interacts with 3 human partners:{Q9Y6D6;Q14678;O00522}

1924 Pathogen[ P03383] interacts with 2 human partners:{Q14678;Q9Y6D6}

1925 Pathogen[ P03410] interacts with 3 human partners:{Q9Y6D6;O00522;Q14678}

1926 Pathogen[ P14075] interacts with 2 human partners:{Q9Y6D6;Q14678}

1927 Pathogen[ P0C206] interacts with 3 human partners:{Q9Y6D6;Q14678;O00522}

1928 Pathogen[ P03363] interacts with 3 human partners:{O00522;Q9Y6D6;Q14678}

1929 [Cluster 176]GO:0045184+P biological\_process [name] establishment of protein localization [def] "The directed movement of a protein to a specific location." [GOC

1930 Pathogen[ Q2Q067] interacts with 4 human partners:{P78352;Q9BQE4;Q9BQA5;Q00987}

1931 Pathogen[ P0C214] interacts with 5 human partners:{Q00987;P78352;Q9BQA5;Q9BQE4;P55072}

1932 Pathogen[ P03346] interacts with 7 human partners:{P78352;P55072;Q00987;Q9BUN8;Q9P021;Q9HB21;Q9BQA5}

1933 Pathogen[ Q85601] interacts with 5 human partners:{Q9HB21;P78352;Q9BQA5;Q00987;Q9BQE4}

1934 Pathogen[ P14079] interacts with 6 human partners:{Q9BQE4;Q9BQA5;Q00987;Q9BUN8;Q9HB21;Q9P021}

1935 Pathogen[ P03383] interacts with 4 human partners:{Q9BUN8;Q9BQE4;Q9BQA5;P78352}

1936 Pathogen[ P03410] interacts with 7 human partners:{Q9BQA5;Q9HB21;Q9BQE4;Q9BUN8;Q00987;Q9P021;P78352}

1937 Pathogen[ P14075] interacts with 4 human partners:{Q9BQE4;Q9BQA5;Q9BUN8;P78352}

1938 Pathogen[ P0C206] interacts with 8 human partners:{P78352;Q9P021;Q9BQA5;Q9BQE4;Q9BUN8;P55072;Q9HB21;Q00987}

1939 Pathogen[ P03363] interacts with 3 human partners:{Q9P021;P78352;Q9BQA5}

1940 [Cluster 177]GO:0002064+P biological\_process [name] epithelial cell development [def] "The process whose specific outcome is the progression of an epithelial cell over time, from its formation to the mature structure. An epithelial cell is a cell usually found in a two-dimensional sheet with a free surface." [GOC

1941 Pathogen[ Q2Q067] interacts with 2 human partners:{O95948;Q16254}

1942 Pathogen[ P0C214] interacts with 2 human partners:{Q16254;O95948}

1943 Pathogen[ P03346] interacts with 3 human partners:{Q16254;Q9UBC0;O95948}

1944 Pathogen[ Q85601] interacts with 2 human partners:{O95948;Q16254}

1945 Pathogen[ P14079] interacts with 2 human partners:{Q16254;O95948}

1946 Pathogen[ P03383] interacts with 1 human partners:{Q16254}

1947 Pathogen[ P03410] interacts with 2 human partners:{Q16254;O95948}

1948 Pathogen[ P14075] interacts with 1 human partners:{Q16254}

1949 Pathogen[ P0C206] interacts with 3 human partners:{Q9UBC0;Q16254;O95948}

1950 Pathogen[ P03363] interacts with 3 human partners:{Q9UBC0;O95948;Q16254}

1951 [Cluster 178]GO:0008104+P biological\_process [name] protein localization [def] "Any process in which a protein is transported to, or maintained in, a specific location." [GOC

1952 Pathogen[ Q2Q067] interacts with 14 human partners:{Q8IZW8;P41182;Q9UHC1;P06748;Q9Y3M2;Q12959;Q96RL7;Q5TZA2;P20823;Q92845;O60888;O75969;Q13501;Q9BV73}

1953 Pathogen[ P0C214] interacts with 13 human partners:{P06748;O60888;Q13501;O75969;Q9Y3M2;Q9UHC1;Q96RL7;P41182;Q12959;Q92845;Q709C8;Q9BV73;Q5TZA2}

1954 Pathogen[ P03346] interacts with 19 human partners:{Q86UU5;O60888;P06748;Q8IZW8;Q9Y3M2;O75969;Q9NQY0;P20823;Q9UHC1;P51843;Q96RL7;P41182;Q5TZA2;Q92845;P54257;Q86XP3;Q13501;Q12959;Q9BV73}

1955 Pathogen[ Q85601] interacts with 15 human partners:{O60888;Q9Y3M2;O75969;Q96RL7;Q9BV73;Q8IZW8;P06748;Q12959;Q92845;Q5TZA2;Q9UHC1;P41182;P19447;P20823;Q13501}

1956 Pathogen[ P14079] interacts with 20 human partners:{Q5TZA2;Q5JQC9;P54257;Q8IZW8;O75781;Q9UHC1;Q9BV73;Q7Z7G8;Q86UU5;P41182;Q96RL7;O60888;P06748;Q13501;Q9Y3M2;O43687;Q709C8;Q92845;O75969;P19447}

1957 Pathogen[ P03383] interacts with 11 human partners:{Q86UU5;P06748;Q96RL7;Q9UHC1;Q9BV73;Q5TZA2;Q9Y3M2;Q13501;Q92845;O75969;O60888}

1958 Pathogen[ P03410] interacts with 22 human partners:{Q709C8;O75781;Q96RL7;Q9Y3M2;Q12959;Q5JQC9;Q92845;O75969;Q13501;P06748;Q9NQ



1959 Y0;Q8IZW8;Q5TZA2;P19447;P41182;P54257;Q7Z7G8;O43687;Q86UU5;Q9BV73;O60888;Q9UHC1}  
 Pathogen[ P14075] interacts with 11 human  
 partners:{Q96RL7;O60888;Q92845;Q5TZA2;Q86UU5;O75969;Q9UHC1;Q9BV73;P06748;Q9Y3M2;Q13501}

1960 Pathogen[ P0C206] interacts with 19 human  
 partners:{Q13501;Q92845;Q5JQC9;Q5TZA2;P41182;Q8IZW8;Q709C8;Q9UHC1;P19447;Q7Z7G8;O60888;P20823;O75969;Q9BV73;Q9NQY0;P06748;Q86UU5;Q12959;Q96RL7}

1961 Pathogen[ P03363] interacts with 15 human  
 partners:{Q12959;Q92845;O60888;Q9UHC1;Q9Y3M2;P06748;Q5TZA2;Q86UU5;Q8IZW8;P54257;Q86XP3;O75969;Q96RL7;Q9NQY0;Q9BV73}

1962 [Cluster 179]GO:2000117+P biological\_process [name] negative regulation of cysteine-type endopeptidase activity [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of cysteine-type endopeptidase activity." [GOC

1963 Pathogen[ Q2Q067] interacts with 1 human partners:{Q16666}

1964 Pathogen[ P0C214] interacts with 2 human partners:{Q16666;Q5JVF3}

1965 Pathogen[ P03346] interacts with 1 human partners:{Q16666}

1966 Pathogen[ Q85601] interacts with 1 human partners:{Q16666}

1967 Pathogen[ P14079] interacts with 2 human partners:{Q5JVF3;Q16666}

1968 Pathogen[ P03383] interacts with 1 human partners:{Q16666}

1969 Pathogen[ P03410] interacts with 2 human partners:{Q16666;Q5JVF3}

1970 Pathogen[ P14075] interacts with 1 human partners:{Q16666}

1971 Pathogen[ P0C206] interacts with 2 human partners:{Q16666;Q5JVF3}

1972 Pathogen[ P03363] interacts with 1 human partners:{Q16666}

1973 [Cluster 180]GO:0048386+P biological\_process [name] positive regulation of retinoic acid receptor signaling pathway [def] "Any process that activates or increases the frequency, rate or extent of retinoic acid receptor signaling pathway activity." [GOC

1974 Pathogen[ Q2Q067] interacts with 2 human partners:{P13056;Q8IXJ9}

1975 Pathogen[ P0C214] interacts with 2 human partners:{P13056;Q8IXJ9}

1976 Pathogen[ P03346] interacts with 3 human partners:{P13056;O95361;Q8IXJ9}

1977 Pathogen[ Q85601] interacts with 2 human partners:{Q8IXJ9;P13056}

1978 Pathogen[ P14079] interacts with 3 human partners:{P13056;Q8IXJ9;O95361}

1979 Pathogen[ P03383] interacts with 2 human partners:{Q8IXJ9;P13056}

1980 Pathogen[ P03410] interacts with 2 human partners:{Q8IXJ9;P13056}

1981 Pathogen[ P14075] interacts with 2 human partners:{Q8IXJ9;P13056}

1982 Pathogen[ P0C206] interacts with 3 human partners:{P13056;Q8IXJ9;O95361}

1983 Pathogen[ P03363] interacts with 2 human partners:{Q8IXJ9;P13056}

1984 [Cluster 181]GO:0008277+P biological\_process [name] regulation of G-protein coupled receptor protein signaling pathway [def] "Any process that modulates the frequency, rate or extent of G-protein coupled receptor protein signaling pathway activity." [GOC

1985 Pathogen[ Q2Q067] interacts with 3 human partners:{P63172;P41220;P81274}

1986 Pathogen[ P0C214] interacts with 4 human partners:{P41220;P81274;P63172;Q9NVN3}

1987 Pathogen[ P03346] interacts with 7 human  
 partners:{Q6ZWB6;Q68DU8;P81274;P63172;Q9NVN3;Q96CX2;P41220}

1988 Pathogen[ Q85601] interacts with 4 human partners:{P41220;P81274;P63172;Q96CX2}

1989 Pathogen[ P14079] interacts with 7 human  
 partners:{P63172;O60895;P41220;Q68DU8;Q96CX2;P81274;Q9NVN3}

1990 Pathogen[ P03383] interacts with 3 human partners:{P41220;P63172;P81274}

1991 Pathogen[ P03410] interacts with 9 human  
 partners:{O60896;O60895;P41220;P63172;Q68DU8;Q9NVN3;Q6ZWB6;Q96CX2;P81274}

1992 Pathogen[ P14075] interacts with 3 human partners:{P81274;P41220;P63172}

1993 Pathogen[ P0C206] interacts with 5 human  
 partners:{P81274;Q96CX2;P41220;P63172;Q9NVN3}

1994 Pathogen[ P03363] interacts with 3 human partners:{P81274;P63172;P41220}

1995 [Cluster 182]GO:0051318+P biological\_process [name] G1 phase [def] "A cell cycle process comprising the steps by which a cell progresses through G1 phase, one of two 'gap' phases in the cell cycle\_ G1 is the interval between the completion of DNA segregation (usually by mitosis or meiosis) and the beginning of DNA synthesis." [GOC

1996 Pathogen[ Q2Q067] interacts with 2 human partners:{P06400;Q8N720}

1997 Pathogen[ P0C214] interacts with 2 human partners:{P06400;Q8N720}

1998 Pathogen[ P03346] interacts with 2 human partners:{P06400;Q8N720}

1999 Pathogen[ Q85601] interacts with 2 human partners:{Q8N720;P06400}

2000 Pathogen[ P14079] interacts with 1 human partners:{Q8N720}

2001 Pathogen[ P03383] interacts with 2 human partners:{P06400;Q8N720}

2002 Pathogen[ P03410] interacts with 2 human partners:{Q8N720;P06400}

2003 Pathogen[ P14075] interacts with 2 human partners:{P06400;Q8N720}

2004 Pathogen[ P0C206] interacts with 2 human partners:{Q8N720;P06400}

2005 Pathogen[ P03363] interacts with 2 human partners:{Q8N720;P06400}

2006 [Cluster 183]GO:0003337+P biological\_process [name] mesenchymal to epithelial transition involved in metanephros morphogenesis [def] "A transition where a mesenchymal cell establishes apical/basolateral polarity, forms intercellular adhesive junctions, synthesizes basement membrane components and becomes an epithelial cell that will contribute to the shaping of the metanephros." [GOC

2007 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NSC2}

2008 Pathogen[ P0C214] interacts with 1 human partners:{Q9NSC2}

2009 Pathogen[ P03346] interacts with 3 human partners:{Q9NPC8;Q9NSC2;Q06710}

2010 Pathogen[ Q85601] interacts with 1 human partners:{Q9NSC2}

2011 Pathogen[ P14079] interacts with 1 human partners:{Q9NSC2}

2012 Pathogen[ P03383] interacts with 1 human partners:{Q9NSC2}

2013 Pathogen[ P03410] interacts with 1 human partners:{Q9NSC2}

2014 Pathogen[ P14075] interacts with 1 human partners:{Q9NSC2}

2015 Pathogen[ P0C206] interacts with 1 human partners:{Q9NSC2}

2016 Pathogen[ P03363] interacts with 1 human partners:{Q9NPC8}

2017 [Cluster 184]GO:0010765+P biological\_process [name] positive regulation of sodium ion transport [def] "Any process that increases the frequency, rate or extent of the directed movement of sodium ions (Na+) into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore." [GOC

2018 Pathogen[ Q2Q067] interacts with 1 human partners:{P31749}

2019 Pathogen[ P0C214] interacts with 2 human partners:{O43865;P31749}

2020 Pathogen[ P03346] interacts with 2 human partners:{P31749;O43865}

2021 Pathogen[ Q85601] interacts with 2 human partners:{P31749;O43865}

2022 Pathogen[ P14079] interacts with 2 human partners:{P31751;O43865}

2023 Pathogen[ P03383] interacts with 1 human partners:{P31749}

2024 Pathogen[ P03410] interacts with 2 human partners:{P31749;O43865}

2025 Pathogen[ P14075] interacts with 1 human partners:{P31749}

2026 Pathogen[ P0C206] interacts with 2 human partners:{P31749;O43865}

2027 Pathogen[ P03363] interacts with 2 human partners:{P31749;O43865}

2028 [Cluster 185]GO:0001514+P biological\_process [name] selenocysteine incorporation [def] "The incorporation of selenocysteine into a peptide\_ uses a special tRNA that recognizes the UGA codon as selenocysteine, rather than as a termination codon. Selenocysteine is synthesized from serine before its incorporation\_ it is not a posttranslational modification of peptidyl-cysteine." [RESID

2029 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9HD40;P57772}

2030 Pathogen[ P0C214] interacts with 2 human partners:{P57772;Q9HD40}

2031 Pathogen[ P03346] interacts with 2 human partners:{P57772;Q9HD40}

2032 Pathogen[ Q85601] interacts with 2 human partners:{P57772;Q9HD40}

2033 Pathogen[ P14079] interacts with 2 human partners:{P57772;Q9HD40}

2034 Pathogen[ P03383] interacts with 2 human partners:{Q9HD40;P57772}

2035 Pathogen[ P03410] interacts with 2 human partners:{P57772;Q9HD40}

2036 Pathogen[ P14075] interacts with 2 human partners:{P57772;Q9HD40}

2037 Pathogen[ P0C206] interacts with 2 human partners:{Q9HD40;P57772}

2038 Pathogen[ P03363] interacts with 3 human partners:{Q9HD40;P57772;Q9NX07}

2039 [Cluster 186]GO:0008016+P biological\_process [name] regulation of heart contraction [def] "Any process that modulates the frequency, rate or extent of heart contraction. Heart contraction is the process in which the heart decreases in volume in a characteristic way to propel blood through the body." [GOC

2040 Pathogen[ Q2Q067] interacts with 5 human partners:{P10827;P10828;P23297;Q9UBY9;P17661}

2041 Pathogen[ P0C214] interacts with 5 human partners:{Q9UBY9;P13533;P10828;P23297;P17661}

2042 Pathogen[ P03346] interacts with 6 human partners:{P10827;P23297;P17661;Q9UBY9;Q02446;P10828}

2043 Pathogen[ Q85601] interacts with 6 human partners:{P17661;P13533;P23297;Q9UBY9;P10827;P10828}

2044 Pathogen[ P14079] interacts with 7 human partners:{P10828;P10827;P23327;P23297;P17661;Q9UBY9;Q02446}

2045 Pathogen[ P03383] interacts with 4 human partners:{P17661;P23297;Q9UBY9;P10828}

2046 Pathogen[ P03410] interacts with 6 human partners:{P17661;P10828;P23327;P23297;P13533;Q9UBY9}

2047 Pathogen[ P14075] interacts with 5 human partners:{Q9UBY9;P10828;P17661;P23327;P23297}

2048 Pathogen[ P0C206] interacts with 8 human partners:{P17661;P13533;Q02446;P10828;P23327;P23297;P10827;Q9UBY9}

2049 Pathogen[ P03363] interacts with 6 human partners:{Q9UBY9;P10828;P17661;Q95319;P23297;Q02446}

2050 [Cluster 187]GO:0033088+P biological\_process [name] negative regulation of immature T cell proliferation in thymus [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of immature T cell proliferation in the thymus." [GOC

2051 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8N726}

2052 Pathogen[ P0C214] interacts with 1 human partners:{Q8N726}

2053 Pathogen[ P03346] interacts with 1 human partners:{Q8N726}

2054 Pathogen[ Q85601] interacts with 1 human partners:{Q8N726}

2055 Pathogen[ P14079] interacts with 1 human partners:{Q8N726}

2056 Pathogen[ P03383] interacts with 1 human partners:{Q8N726}

2057 Pathogen[ P03410] interacts with 1 human partners:{Q8N726}

2058 Pathogen[ P14075] interacts with 1 human partners:{Q8N726}

2059 Pathogen[ P0C206] interacts with 1 human partners:{Q8N726}

2060 Pathogen[ P03363] interacts with 1 human partners:{Q8N726}

2061 [Cluster 188]GO:0035051+P biological\_process [name] cardiac cell differentiation [def] "The process in which a relatively unspecialized cell acquires the specialized structural and/or functional features of a cell that will form part of the cardiac organ of an individual." [GOC

2062 Pathogen[ Q2Q067] interacts with 1 human partners:{P35712}

2063 Pathogen[ P0C214] interacts with 1 human partners:{P35712}  
2064 Pathogen[ P03346] interacts with 1 human partners:{P35712}  
2065 Pathogen[ Q85601] interacts with 1 human partners:{P35712}  
2066 Pathogen[ P14079] interacts with 2 human partners:{Q16585;P35712}  
2067 Pathogen[ P03383] interacts with 1 human partners:{P35712}  
2068 Pathogen[ P03410] interacts with 2 human partners:{P35712;Q16585}  
2069 Pathogen[ P14075] interacts with 1 human partners:{P35712}  
2070 Pathogen[ P0C206] interacts with 1 human partners:{P35712}  
2071 Pathogen[ P03363] interacts with 1 human partners:{P35712}  
2072 [Cluster 189]GO:0007249+P biological\_process [name] I-kappaB kinase/NF-kappaB cascade  
[def] "A series of reactions initiated by the activation of the transcription factor  
NF-kappaB. NF-kappaB is sequestered by the inhibitor I-kappaB, and is released when  
I-kappaB is phosphorylated by activated I-kappaB kinase." [GOC  
2073 Pathogen[ Q2Q067] interacts with 21 human  
partners:{Q95411;Q8IUC6;Q8TAD8;Q8TD23;P20749;Q9NYJ8;Q5VVH5;Q8N5C8;P10914;Q9Y6K9;Q8NF  
Z5;P0CG47;O14920;P0CG48;O43318;Q92844;P62987;O15111;Q96CG3;Q15750;P62979}  
2074 Pathogen[ P0C214] interacts with 21 human  
partners:{O15111;Q9Y6K9;Q8IUC6;Q8TAD8;Q8TD23;P10914;Q5VVH5;O43318;Q8N5C8;Q92844;P0CG  
48;P20749;Q95411;P62987;Q15750;Q96CG3;Q8NFZ5;P0CG47;P62979;O14920;Q9NYJ8}  
2075 Pathogen[ P03346] interacts with 21 human  
partners:{Q9Y6K9;O15111;P62987;Q8TD23;Q8NFZ5;P0CG48;Q5VVH5;Q8N5C8;P10914;Q9NYJ8;O954  
11;Q15750;P62979;P20749;Q8IUC6;P0CG47;O14920;O43318;Q96CG3;Q8TAD8;Q92844}  
2076 Pathogen[ Q85601] interacts with 20 human  
partners:{Q15750;Q9NYJ8;Q8IUC6;Q8TD23;O15111;Q92844;Q96CG3;P0CG48;Q5VVH5;P10914;Q8N5  
C8;Q9Y6K9;Q8NFZ5;O14920;P62979;P0CG47;Q8TAD8;P62987;O43318;P20749}  
2077 Pathogen[ P14079] interacts with 20 human  
partners:{Q92844;Q8TD23;Q8N5C8;P0CG48;O43187;Q5VVH5;Q8IUC6;Q15750;P62979;P62987;Q8NF  
Z5;Q9Y6K9;Q8TAD8;P20749;Q9Y6Y9;Q9H6S1;O95411;P0CG47;Q96CG3;P10914}  
2078 Pathogen[ P03383] interacts with 21 human  
partners:{P10914;Q9Y6K9;Q92844;Q8TAD8;P62987;Q8IUC6;O14920;Q8TD23;O15111;P20749;Q96C  
G3;Q5VVH5;O43318;Q8N5C8;O95411;P62979;P0CG47;P0CG48;Q9NYJ8;Q8NFZ5;Q15750}  
2079 Pathogen[ P03410] interacts with 24 human  
partners:{P20749;P0CG48;O14920;Q8NFZ5;O15111;Q15750;O43187;Q96CG3;Q9H6S1;Q92844;P629  
79;Q8TAD8;O43318;Q9NYJ8;Q8N5C8;P10914;Q9Y6Y9;P62987;O95411;Q8IUC6;Q8TD23;Q9Y6K9;Q5VV  
H5;P0CG47}  
2080 Pathogen[ P14075] interacts with 21 human  
partners:{Q8TAD8;O15111;Q15750;Q92844;Q8TD23;Q5VVH5;Q8NFZ5;Q8N5C8;O14920;P0CG48;P629  
79;Q96CG3;O43318;P62987;Q8IUC6;P0CG47;Q9Y6K9;P10914;O95411;P20749;Q9NYJ8}  
2081 Pathogen[ P0C206] interacts with 22 human  
partners:{P10914;P0CG48;O14920;Q92844;Q9Y6K9;Q8TAD8;Q8N5C8;Q96CG3;Q8NFZ5;O43318;Q8TD  
23;Q5VVH5;O15111;P62979;Q9NYJ8;P0CG47;O95411;Q8IUC6;P20749;Q15750;P62987;Q9H6S1}  
2082 Pathogen[ P03363] interacts with 17 human  
partners:{O14920;O95411;O15111;Q9NYJ8;Q9Y6K9;O43318;Q15750;P20749;Q5VVH5;P10914;P629  
87;Q92844;Q96CG3;Q8TD23;Q8TAD8;Q8NFZ5;Q8N5C8}  
2083 [Cluster 190]GO:0006302+P biological\_process [name] double-strand break repair  
[def] "The repair of double-strand breaks in DNA via homologous and nonhomologous  
mechanisms to reform a continuous DNA helix." [GOC  
2084 Pathogen[ Q2Q067] interacts with 35 human  
partners:{O00213;Q96SD1;Q99502;Q12888;P27694;P49959;Q7Z2E3;P35244;Q9NWX8;O95551;Q066  
09;Q9H9Q4;Q99504;O60934;Q96017;P15927;Q9NUW8;Q13426;Q8IW19;Q92993;Q6UWZ7;P12956;O602  
16;P39748;Q92499;O76064;P43351;Q9UI95;Q9ULG1;Q14676;P13010;Q9H9F9;Q96FF9;Q9NXX7;Q96R  
L1}  
2085 Pathogen[ P0C214] interacts with 38 human  
partners:{P43351;Q8IW19;Q92993;O95551;O00213;Q9H9Q4;Q06609;P49959;P13010;Q9H9F9;Q96S  
D1;Q9NWX8;Q9ULG1;Q14676;Q9UI95;Q96FF9;Q92698;Q13426;O96017;Q7Z2E3;Q6UWZ7;P15927;O602  
64;P35244;Q99504;Q96RL1;Q92499;P39748;Q12888;P27694;Q9NUW8;Q9NXX7;Q8IYW5;O76064;O602  
16;P12956;P55072;Q99502}  
2086 Pathogen[ P03346] interacts with 44 human  
partners:{Q12888;O00213;Q99828;O76064;P12956;Q06609;Q5XG87;O95551;O96017;Q96SD1;Q8IW  
19;Q96FF9;P27694;P07992;Q9H9F9;P35244;Q9ULG1;Q13426;Q9NUW8;P13010;Q96RL1;Q99502;Q9UI  
95;Q92698;P55072;Q7Z333;Q92499;Q14676;Q9NXX7;O60264;P51587;P15927;P49959;Q8IYW5;Q9NW  
V8;P43351;O60934;Q9H9Q4;Q7Z2E3;Q92993;P39748;Q99504;Q6UWZ7;O60216}  
2087 Pathogen[ Q85601] interacts with 40 human  
partners:{P43351;O00213;Q96RL1;O96017;Q9UI95;Q9H9F9;P35244;Q13426;Q99504;P49959;O602  
16;Q92499;Q92698;P27694;Q12888;Q5XG87;O76064;P15927;Q96SD1;Q99502;Q6UWZ7;Q9NWX8;Q9NU  
W8;Q9ULG1;Q8IYW5;Q8IW19;Q7Z2E3;Q92993;P39748;O60264;Q06609;Q96FF9;Q14676;Q9NXX7;P515  
87;O95551;Q9H9Q4;P13010;P12956;O60934}  
2088 Pathogen[ P14079] interacts with 38 human  
partners:{Q9ULG1;Q99502;Q9H9Q4;P13010;Q96FF9;Q5XG87;Q6UWZ7;Q92698;P51587;O60216;O002  
13;O60934;Q99828;P12956;Q9NUW8;Q9NXX7;Q9NWX8;Q96RL1;O60264;O95551;P15927;Q14676;Q96S  
D1;P27694;Q92499;Q99504;Q12888;P35244;Q06609;Q7Z2E3;Q13426;Q9H9F9;P07992;Q92993;P499  
17;P39748;P43351;Q8IW19}  
2089 Pathogen[ P03383] interacts with 28 human  
partners:{P43351;Q7Z2E3;Q99504;O00213;Q12888;Q06609;P13010;Q96RL1;Q9UI95;P27694;Q8IW  
19;Q9H9Q4;Q92993;O60216;Q9H9F9;P15927;Q13426;P35244;Q9NWX8;Q96FF9;Q9NUW8;O95551;Q924  
99;Q14676;Q9NXX7;Q6UWZ7;P12956;O96017}

2090 Pathogen[ P03410] interacts with 40 human partners: {Q96RL1;P49959;P35244;Q9UI95;Q9NXR7;Q92698;Q9NWX8;P07992;Q99502;Q9ULG1;O00213;P39748;Q96SD1;P43351;O60216;Q7Z2E3;P12956;O95551;Q99828;Q9H9F9;Q92499;P51587;Q8IW19;Q9NUW8;Q96017;Q5XG87;Q6UWZ7;Q99504;Q13426;Q12888;P13010;P27694;Q14676;Q96FF9;P15927;O60264;Q92993;O60934;Q9H9Q4;Q06609}

2091 Pathogen[ P14075] interacts with 29 human partners: {P43351;Q7Z2E3;O00213;Q99504;P12956;Q9NWX8;Q9NXR7;P15927;Q9UI95;Q92993;Q96FF9;Q6UWZ7;Q92499;Q9H9Q4;P35244;Q14676;O96017;Q8IW19;Q13426;P27694;Q9H9F9;Q12888;Q99502;P13010;Q96RL1;O60216;Q9NUW8;Q06609;O95551}

2092 Pathogen[ P0C206] interacts with 47 human partners: {O60216;Q5XG87;P13010;Q99828;P49959;Q99504;Q8IYW5;O96017;P51587;O60934;Q9NUW8;Q96SD1;Q92993;P07992;Q96FF9;O00213;P43351;Q12888;P49917;Q9H9Q4;Q7Z333;Q9ULG1;Q13426;Q14676;Q9NWX8;O95551;P55072;Q9H9F9;Q99502;Q6UWZ7;Q06609;P27694;P15927;Q8IW19;Q96RL1;P39748;P35244;O76064;Q92499;P12956;Q7Z2E3;Q9BX63;Q9UI95;Q92698;Q9UIG0;O60264;Q9NXR7}

2093 Pathogen[ P03363] interacts with 35 human partners: {P12956;Q9BX63;Q8IW19;P27694;Q7Z333;Q9ULG1;P13010;Q96RL1;O00213;Q6UWZ7;Q8IYW5;P35244;Q99828;P15927;O96017;O60264;Q9H9F9;Q13426;Q9NWX8;Q7Z2E3;Q99504;Q9NUW8;Q92499;Q9UI95;Q9H9Q4;P43351;Q9NXR7;O95551;Q06609;Q96FF9;Q14676;Q92993;Q12888;Q92698;O60216}

2094 [Cluster 191]GO:0006469+P biological\_process [name] negative regulation of protein kinase activity [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of protein kinase activity." [GOC

2095 Pathogen[ Q2Q067] interacts with 26 human partners: {Q96S95;P31749;Q9BQY9;O60239;Q9UD71;Q8WY54;P06400;O95684;Q8N1N5;O95257;P61981;Q96B36;P14373;Q15633;P04792;Q8N726;Q8WXC3;P24522;Q9GZV5;Q96RU7;Q15545;Q03111;Q9H875;P49593;P49918;Q96EY1}

2096 Pathogen[ P0C214] interacts with 26 human partners: {O60239;Q9H875;P24522;O95684;Q96S95;P04792;Q9GZV5;Q8N726;Q15545;Q9UD71;O95257;Q15633;P49918;Q96B36;Q8WXC3;Q96RU7;Q8WY54;P61981;Q03111;P49593;Q9BQY9;P14373;O15524;P06400;Q96EY1;P31749}

2097 Pathogen[ P03346] interacts with 30 human partners: {O60239;Q15524;Q96S95;Q8WY54;P14373;O95684;Q8N1N5;P06400;Q9GZV5;Q15633;Q9BQY9;P49918;P49593;Q03111;Q8WXC3;Q96B36;P31749;Q9UD71;Q9H875;P61981;Q96RU7;O95257;Q15545;Q8N726;P61925;Q9C010;Q96EY1;P04792;Q8TB45;P24522}

2098 Pathogen[ Q85601] interacts with 25 human partners: {P61981;O60239;P14373;P31749;Q9UD71;O95684;P06400;P49593;Q15545;P24522;Q96S95;Q9GZV5;Q96B36;Q8N726;Q9H875;Q8WXC3;O95257;Q15633;Q96RU7;Q8WY54;P49918;P04792;Q9BQY9;Q03111;Q96EY1}

2099 Pathogen[ P14079] interacts with 28 human partners: {Q9C010;Q8WXC3;Q9UD71;P14373;P49593;Q9GZV5;O95684;Q8N726;Q8N1N5;P49918;Q03111;Q8WY54;P61981;O60239;Q7Z7J9;Q9BQY9;P24522;Q96RU7;Q9H875;Q96S95;O75293;Q8TB45;Q96B36;P04792;O95257;Q96EY1;P61925;Q15545}

2100 Pathogen[ P03383] interacts with 23 human partners: {Q9UD71;O95684;Q03111;P31749;P24522;Q8N1N5;P04792;Q96B36;P06400;Q8WXC3;Q96RU7;Q8WY54;P61981;P49918;Q96S95;Q15545;Q9H875;Q9GZV5;Q96EY1;O95257;Q9BQY9;Q15633;Q8N726}

2101 Pathogen[ P03410] interacts with 30 human partners: {O95684;Q9H875;O75293;Q15633;P61925;Q8N1N5;Q8N726;Q96S95;P24522;Q8WY54;P31749;P04792;O60239;P06400;Q9GZV5;P61981;Q96B36;Q9C010;Q7Z7J9;Q96RU7;Q8WXC3;P49593;Q8TB45;P49918;O95257;Q9UD71;Q9BQY9;Q96EY1;Q15545;Q03111}

2102 Pathogen[ P14075] interacts with 25 human partners: {Q9GZV5;O60239;O95684;O95257;P04792;Q9UD71;P61981;Q9C010;Q96B36;Q8N1N5;P31749;Q96S95;P49918;Q8WXC3;Q15545;P06400;Q15633;Q9BQY9;Q96RU7;Q8WY54;P24522;Q03111;Q96EY1;Q8N726;Q9H875}

2103 Pathogen[ P0C206] interacts with 30 human partners: {O75293;Q15545;P31749;P24522;O95684;Q8N726;Q8WY54;Q9UD71;Q9C010;Q96B36;Q9BQY9;P04792;O15524;Q96RU7;Q03111;Q9GZV5;P49593;O95257;O60239;P61981;Q8N1N5;Q15633;Q9H875;P14373;P61925;Q96EY1;Q8WXC3;P06400;P49918;Q96S95}

2104 Pathogen[ P03363] interacts with 28 human partners: {P49918;Q9H875;Q9C010;Q96B36;Q8TB45;O15524;P14373;Q9UD71;O95684;O95257;Q15545;Q8N1N5;P06400;Q15633;Q03111;Q9GZV5;P31749;P61925;Q8WXC3;P24522;Q9BQY9;Q96S95;O60239;Q8N726;P61981;Q96EY1;P04792;Q8WY54}

2105 [Cluster 192]GO:0021954+P biological\_process [name] central nervous system neuron development [def] "The process whose specific outcome is the progression of a neuron whose cell body is located in the central nervous system, from initial commitment of the cell to a neuronal fate, to the fully functional differentiated neuron." [GO\_REF

2106 Pathogen[ Q2Q067] interacts with 2 human partners: {P23769;P78543}

2107 Pathogen[ P0C214] interacts with 2 human partners: {P78543;P23769}

2108 Pathogen[ P03346] interacts with 4 human partners: {P23769;P11137;P78543;Q9H2A3}

2109 Pathogen[ Q85601] interacts with 2 human partners: {P23769;P78543}

2110 Pathogen[ P14079] interacts with 3 human partners: {P78543;P11137;P23769}

2111 Pathogen[ P03383] interacts with 2 human partners: {P23769;P78543}

2112 Pathogen[ P03410] interacts with 3 human partners: {P11137;P78543;P23769}

2113 Pathogen[ P14075] interacts with 2 human partners: {P23769;P78543}

2114 Pathogen[ P0C206] interacts with 4 human partners: {P11137;P23769;P78543;Q9H2A3}

2115 Pathogen[ P03363] interacts with 3 human partners:{P11137;P78543;Q9H2A3}

2116 [Cluster 193]GO:0000073+P biological\_process [name] spindle pole body separation [def] "A largely uncharacterized process involving the release of duplicated spindle pole bodies (SPBs) and their migration away from each other within the nuclear membrane. Duplicated SPBs are connected by a bridge structure that may be severed in order to release the SPBs from one another. Following liberation, SPBs diffuse through the nuclear membrane until they are across from each other. SPB separation must take place in order for a bipolar mitotic spindle to assemble." [GOC

2117 Pathogen[ Q2Q067] interacts with 1 human partners:{P27816}

2118 Pathogen[ P0C214] interacts with 1 human partners:{P27816}

2119 Pathogen[ P03346] interacts with 1 human partners:{P27816}

2120 Pathogen[ Q85601] interacts with 1 human partners:{P27816}

2121 Pathogen[ P14079] interacts with 1 human partners:{P27816}

2122 Pathogen[ P03383] interacts with 1 human partners:{P27816}

2123 Pathogen[ P03410] interacts with 1 human partners:{P27816}

2124 Pathogen[ P14075] interacts with 1 human partners:{P27816}

2125 Pathogen[ P0C206] interacts with 1 human partners:{P27816}

2126 Pathogen[ P03363] interacts with 1 human partners:{P27816}

2127 [Cluster 194]GO:0034063+P biological\_process [name] stress granule assembly [def] "The aggregation, arrangement and bonding together of proteins and RNA molecules to form a stress granule." [GOC

2128 Pathogen[ Q2Q067] interacts with 3 human partners:{Q14204;Q8TB72;Q99700}

2129 Pathogen[ P0C214] interacts with 5 human partners:{Q8TB72;Q14204;Q99700;Q96G01;Q14011}

2130 Pathogen[ P03346] interacts with 5 human partners:{Q96G01;Q14011;Q14204;Q8TB72;Q99700}

2131 Pathogen[ Q85601] interacts with 4 human partners:{Q14204;Q96G01;Q8TB72;Q99700}

2132 Pathogen[ P14079] interacts with 5 human partners:{Q99700;Q14204;Q8TB72;Q96G01;Q14011}

2133 Pathogen[ P03383] interacts with 2 human partners:{Q99700;Q8TB72}

2134 Pathogen[ P03410] interacts with 5 human partners:{Q99700;Q14204;Q96G01;Q14011;Q8TB72}

2135 Pathogen[ P14075] interacts with 2 human partners:{Q8TB72;Q99700}

2136 Pathogen[ P0C206] interacts with 5 human partners:{Q14011;Q8TB72;Q14204;Q99700;Q96G01}

2137 Pathogen[ P03363] interacts with 4 human partners:{Q8TB72;Q14204;Q14011;Q99700}

2138 [Cluster 195]GO:2000134+P biological\_process [name] negative regulation of G1/S transition of mitotic cell cycle [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of G1/S transition of mitotic cell cycle." [GOC

2139 Pathogen[ Q2Q067] interacts with 7 human partners:{Q6P1J9;P55345;Q9NPI1;Q9NYF0;Q63ZY3;Q13642;A2A288}

2140 Pathogen[ P0C214] interacts with 7 human partners:{P55345;Q13642;A2A288;Q6P1J9;Q9NPI1;Q9NYF0;Q63ZY3}

2141 Pathogen[ P03346] interacts with 7 human partners:{A2A288;Q9NPI1;P55345;Q13642;Q9NYF0;Q63ZY3;Q6P1J9}

2142 Pathogen[ Q85601] interacts with 7 human partners:{Q6P1J9;Q9NYF0;Q13642;A2A288;Q63ZY3;Q9NPI1;P55345}

2143 Pathogen[ P14079] interacts with 7 human partners:{Q9NPI1;P55345;Q13642;Q63ZY3;A2A288;Q6P1J9;Q9NYF0}

2144 Pathogen[ P03383] interacts with 6 human partners:{Q6P1J9;A2A288;Q9NYF0;Q63ZY3;Q9NPI1;Q13642}

2145 Pathogen[ P03410] interacts with 7 human partners:{A2A288;Q6P1J9;Q9NYF0;Q13642;Q63ZY3;Q9NPI1;P55345}

2146 Pathogen[ P14075] interacts with 6 human partners:{Q63ZY3;Q9NPI1;Q13642;Q6P1J9;Q9NYF0;A2A288}

2147 Pathogen[ P0C206] interacts with 7 human partners:{Q9NPI1;Q13642;A2A288;Q63ZY3;Q9NYF0;P55345;Q6P1J9}

2148 Pathogen[ P03363] interacts with 6 human partners:{A2A288;Q63ZY3;Q9NYF0;Q6P1J9;Q9NPI1;Q13642}

2149 [Cluster 196]GO:0006195+P biological\_process [name] purine nucleotide catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of a purine nucleotide, a compound consisting of nucleoside (a purine base linked to a deoxyribose or ribose sugar) esterified with a phosphate group at either the 3' or 5'-hydroxyl group of the sugar." [GOC

2150 Pathogen[ Q2Q067] interacts with 1 human partners:{P36639}

2151 Pathogen[ P0C214] interacts with 5 human partners:{Q96P26;P49902;Q8TCD5;P36639;Q9Y2T3}

2152 Pathogen[ P03346] interacts with 1 human partners:{P36639}

2153 Pathogen[ Q85601] interacts with 1 human partners:{P36639}

2154 Pathogen[ P14079] interacts with 6 human partners:{Q96P26;Q8TCD5;Q9Y2T3;P36639;P49902;Q9BXI3}

2155 Pathogen[ P03383] interacts with 1 human partners:{P36639}

2156 Pathogen[ P03410] interacts with 6 human partners:{Q96P26;P36639;Q9Y2T3;Q9BXI3;Q8TCD5;P49902}

2157 Pathogen[ P14075] interacts with 2 human partners:{P49902;P36639}

2158 Pathogen[ P0C206] interacts with 3 human partners:{P36639;P49902;Q8TCD5}

2159 Pathogen[ P03363] interacts with 1 human partners:{P36639}  
2160 [Cluster 197]GO:0045345+P biological\_process [name] positive regulation of MHC class I biosynthetic process [def] "Any process that activates or increases the frequency, rate or extent of the chemical reactions and pathways resulting in the formation of MHC class I." [GOC  
2161 Pathogen[ Q2Q067] interacts with 2 human partners:{Q86WI3;P33076}  
2162 Pathogen[ P0C214] interacts with 2 human partners:{P33076;Q86WI3}  
2163 Pathogen[ P03346] interacts with 2 human partners:{P33076;Q86WI3}  
2164 Pathogen[ Q85601] interacts with 2 human partners:{P33076;Q86WI3}  
2165 Pathogen[ P14079] interacts with 3 human partners:{P33076;Q8IU54;Q86WI3}  
2166 Pathogen[ P03383] interacts with 2 human partners:{P33076;Q86WI3}  
2167 Pathogen[ P03410] interacts with 2 human partners:{Q86WI3;P33076}  
2168 Pathogen[ P14075] interacts with 2 human partners:{Q86WI3;P33076}  
2169 Pathogen[ P0C206] interacts with 2 human partners:{Q86WI3;P33076}  
2170 Pathogen[ P03363] interacts with 2 human partners:{Q86WI3;P33076}  
2171 [Cluster 198]GO:0007175+P biological\_process [name] negative regulation of epidermal growth factor-activated receptor activity [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of EGF-activated receptor activity." [GOC  
2172 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9UJM3;Q9HCC9;Q8N5A5}  
2173 Pathogen[ P0C214] interacts with 3 human partners:{Q8N5A5;Q9UJM3;Q9HCC9}  
2174 Pathogen[ P03346] interacts with 5 human partners:{O75159;Q8N5A5;Q9UNH7;Q9HCC9;Q9UJM3}  
2175 Pathogen[ Q85601] interacts with 4 human partners:{Q8N5A5;Q9HCC9;Q9UJM3;Q9UNH7}  
2176 Pathogen[ P14079] interacts with 4 human partners:{Q9UNH7;Q9UJM3;Q8N5A5;Q9HCC9}  
2177 Pathogen[ P03383] interacts with 3 human partners:{Q9UJM3;Q8N5A5;Q9HCC9}  
2178 Pathogen[ P03410] interacts with 4 human partners:{Q9HCC9;Q9UNH7;Q8N5A5;Q9UJM3}  
2179 Pathogen[ P14075] interacts with 3 human partners:{Q8N5A5;Q9HCC9;Q9UJM3}  
2180 Pathogen[ P0C206] interacts with 4 human partners:{Q9UNH7;Q9HCC9;Q9UJM3;Q8N5A5}  
2181 Pathogen[ P03363] interacts with 5 human partners:{O75159;Q9HCC9;Q9UNH7;Q8N5A5;Q9UJM3}  
2182 [Cluster 199]GO:0090324+P biological\_process [name] negative regulation of oxidative phosphorylation [def] "Any process that decreases the frequency, rate or extent of the chemical reactions and pathways resulting in the phosphorylation of ADP to ATP that accompanies the oxidation of a metabolite through the operation of the respiratory chain. Oxidation of compounds establishes a proton gradient across the membrane, providing the energy for ATP synthesis." [GOC  
2183 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NP71}  
2184 Pathogen[ P0C214] interacts with 1 human partners:{Q9NP71}  
2185 Pathogen[ P03346] interacts with 1 human partners:{Q9NP71}  
2186 Pathogen[ Q85601] interacts with 1 human partners:{Q9NP71}  
2187 Pathogen[ P14079] interacts with 1 human partners:{Q9NP71}  
2188 Pathogen[ P03383] interacts with 1 human partners:{Q9NP71}  
2189 Pathogen[ P03410] interacts with 1 human partners:{Q9NP71}  
2190 Pathogen[ P14075] interacts with 1 human partners:{Q9NP71}  
2191 Pathogen[ P0C206] interacts with 1 human partners:{Q9NP71}  
2192 Pathogen[ P03363] interacts with 1 human partners:{Q9NP71}  
2193 [Cluster 200]GO:0006595+P biological\_process [name] polyamine metabolic process [def] "The chemical reactions and pathways involving polyamines, any organic compound containing two or more amino groups." [ISBN  
2194 Pathogen[ Q2Q067] interacts with 5 human partners:{Q96GX9;Q9BV57;Q9BV20;P21673;O95190}  
2195 Pathogen[ P0C214] interacts with 10 human partners:{Q9BV57;Q96GX9;P52788;Q9NWM0;P19623;Q9UHY7;Q13126;O95190;P21673;Q9BV20}  
2196 Pathogen[ P03346] interacts with 6 human partners:{Q9BV20;Q9BV57;P21673;Q9UHY7;Q96GX9;O95190}  
2197 Pathogen[ Q85601] interacts with 6 human partners:{P21673;Q96GX9;Q9BV57;O95190;Q9UHY7;Q9BV20}  
2198 Pathogen[ P14079] interacts with 7 human partners:{P17707;Q9BV20;O95190;Q96GX9;P19623;P21673;Q9BV57}  
2199 Pathogen[ P03383] interacts with 5 human partners:{Q9BV57;Q96GX9;O95190;Q9BV20;P21673}  
2200 Pathogen[ P03410] interacts with 8 human partners:{O95190;P19623;P52788;Q9BV20;P21673;Q96GX9;P17707;Q9BV57}  
2201 Pathogen[ P14075] interacts with 5 human partners:{Q96GX9;Q9BV57;Q9BV20;P21673;O95190}  
2202 Pathogen[ P0C206] interacts with 6 human partners:{Q9BV20;P21673;Q9UHY7;O95190;Q9BV57;Q96GX9}  
2203 Pathogen[ P03363] interacts with 5 human partners:{P21673;Q9BV57;Q9BV20;Q96GX9;O95190}  
2204 [Cluster 201]GO:0043623+P biological\_process [name] cellular protein complex assembly [def] "The aggregation, arrangement and bonding together of a set of components to form a protein complex, occurring at the level of an individual cell." [GOC  
2205 Pathogen[ Q2Q067] interacts with 8 human partners:{A6NGQ2;Q8NCR6;Q9UBB5;Q12933;O60535;P59047;P67870;Q5VU43}  
2206 Pathogen[ P0C214] interacts with 8 human partners:{Q8NCR6;O60535;Q5VU43;Q12933;Q9UBB5;P67870;P59047;P18846}

2207 Pathogen[ P03346] interacts with 8 human partners:{P59047;Q8NCR6;O60535;P67870;Q5VU43;Q9UBB5;A6NGQ2;P18846}

2208 Pathogen[ Q85601] interacts with 7 human partners:{P18846;Q12933;O60535;Q5VU43;P67870;Q9UBB5;P59047}

2209 Pathogen[ P14079] interacts with 8 human partners:{Q9UBB5;A6NGQ2;Q7Z5B4;Q12933;P67870;P59047;Q8NCR6;Q5VU43}

2210 Pathogen[ P03383] interacts with 8 human partners:{P18846;Q9UBB5;O60535;Q5VU43;A6NGQ2;Q12933;P67870;Q8NCR6}

2211 Pathogen[ P03410] interacts with 10 human partners:{O60535;Q7Z5B4;A6NGQ2;Q8NCR6;Q9UBB5;P59047;P18846;Q5VU43;Q12933;P67870}

2212 Pathogen[ P14075] interacts with 8 human partners:{Q5VU43;Q9UBB5;Q12933;P67870;A6NGQ2;Q8NCR6;O60535;P18846}

2213 Pathogen[ P0C206] interacts with 10 human partners:{A6NGQ2;Q9UBB5;Q7Z5B4;Q8NCR6;P18846;Q12933;P59047;O60535;P67870;Q5VU43}

2214 Pathogen[ P03363] interacts with 9 human partners:{A6NGQ2;O60535;Q12933;Q5VU43;Q8NCR6;P18846;P59047;P67870;Q9UBB5}

2215 [Cluster 202]GO:2000744+P biological\_process [name] positive regulation of anterior head development [def] "Any process that activates or increases the frequency, rate or extent of anterior head development." [GOC

2216 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BWW4}

2217 Pathogen[ P0C214] interacts with 1 human partners:{Q9BWW4}

2218 Pathogen[ P03346] interacts with 1 human partners:{Q9BWW4}

2219 Pathogen[ Q85601] interacts with 1 human partners:{Q9BWW4}

2220 Pathogen[ P14079] interacts with 1 human partners:{Q9BWW4}

2221 Pathogen[ P03383] interacts with 1 human partners:{Q9BWW4}

2222 Pathogen[ P03410] interacts with 1 human partners:{Q9BWW4}

2223 Pathogen[ P14075] interacts with 1 human partners:{Q9BWW4}

2224 Pathogen[ P0C206] interacts with 1 human partners:{Q9BWW4}

2225 Pathogen[ P03363] interacts with 1 human partners:{Q9BWW4}

2226 [Cluster 203]GO:0021522+P biological\_process [name] spinal cord motor neuron differentiation [def] "The process in which neuroepithelial cells in the ventral neural tube acquire specialized structural and/or functional features of motor neurons. Motor neurons innervate an effector (muscle or glandular) tissue and are responsible for transmission of motor impulses from the brain to the periphery. Differentiation includes the processes involved in commitment of a cell to a specific fate." [GO\_REF

2227 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9ULW3}

2228 Pathogen[ P0C214] interacts with 2 human partners:{Q9ULW3;Q6Y7W6}

2229 Pathogen[ P03346] interacts with 5 human partners:{Q06945;Q9ULW3;Q95096;Q13516;P61968}

2230 Pathogen[ Q85601] interacts with 3 human partners:{Q9ULW3;P61968;Q6Y7W6}

2231 Pathogen[ P14079] interacts with 2 human partners:{Q6Y7W6;Q9ULW3}

2232 Pathogen[ P03383] interacts with 1 human partners:{Q9ULW3}

2233 Pathogen[ P03410] interacts with 3 human partners:{Q9ULW3;Q6Y7W6;Q9UBY8}

2234 Pathogen[ P14075] interacts with 1 human partners:{Q9ULW3}

2235 Pathogen[ P0C206] interacts with 3 human partners:{Q6Y7W6;Q9ULW3;P61968}

2236 Pathogen[ P03363] interacts with 2 human partners:{Q9ULW3;Q13516}

2237 [Cluster 204]GO:0060840+P biological\_process [name] artery development [def] "The progression of the artery over time, from its initial formation to the mature structure. An artery is a blood vessel that carries blood away from the heart to a capillary bed." [GOC

2238 Pathogen[ Q2Q067] interacts with 3 human partners:{Q86V48;P49639;Q9Y5J3}

2239 Pathogen[ P0C214] interacts with 3 human partners:{P49639;Q9Y5J3;Q86V48}

2240 Pathogen[ P03346] interacts with 3 human partners:{P49639;Q86V48;Q9Y5J3}

2241 Pathogen[ Q85601] interacts with 3 human partners:{P49639;Q86V48;Q9Y5J3}

2242 Pathogen[ P14079] interacts with 3 human partners:{Q9Y5J3;Q86V48;P49639}

2243 Pathogen[ P03383] interacts with 2 human partners:{P49639;Q86V48}

2244 Pathogen[ P03410] interacts with 3 human partners:{Q9Y5J3;P49639;Q86V48}

2245 Pathogen[ P14075] interacts with 1 human partners:{Q86V48}

2246 Pathogen[ P0C206] interacts with 3 human partners:{P49639;Q86V48;Q9Y5J3}

2247 Pathogen[ P03363] interacts with 3 human partners:{Q9Y5J3;Q86V48;P49639}

2248 [Cluster 205]GO:0030997+P biological\_process [name] regulation of centriole-centriole cohesion [def] "Any process that modulates the extent to which the two centrioles within a centrosome remain tightly paired\_ may be mediated by the assembly and disassembly of a proteinaceous linker." [PMID

2249 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BV73}

2250 Pathogen[ P0C214] interacts with 1 human partners:{Q9BV73}

2251 Pathogen[ P03346] interacts with 1 human partners:{Q9BV73}

2252 Pathogen[ Q85601] interacts with 1 human partners:{Q9BV73}

2253 Pathogen[ P14079] interacts with 1 human partners:{Q9BV73}

2254 Pathogen[ P03383] interacts with 1 human partners:{Q9BV73}

2255 Pathogen[ P03410] interacts with 1 human partners:{Q9BV73}

2256 Pathogen[ P14075] interacts with 1 human partners:{Q9BV73}

2257 Pathogen[ P0C206] interacts with 1 human partners:{Q9BV73}

2258 Pathogen[ P03363] interacts with 1 human partners:{Q9BV73}

2259 [Cluster 206]GO:0040008+P biological\_process [name] regulation of growth [def] "Any process that modulates the frequency, rate or extent of the growth of all or part of an

organism so that it occurs at its proper speed, either globally or in a specific part of the organism's development." [GOC

2260 Pathogen[ Q2Q067] interacts with 27 human  
partners:{P30153;Q9NXR8;Q9NPF5;Q99816;Q96019;Q86VY4;Q5PSV4;Q14511;P67775;Q95990;Q99608;Q14508;Q9H160;Q92993;Q9UBU8;Q15014;Q8WWQ0;P78395;Q9NV56;Q96MG7;Q95619;Q9H2F5;Q14512;Q15834;Q9ULC4;Q66K89;Q9H0E9}

2261 Pathogen[ P0C214] interacts with 29 human  
partners:{Q92993;Q9NNT2;P30153;Q15014;P29401;Q99608;Q969T4;P78395;Q9H2F5;Q5PSV4;Q95619;Q15834;Q8WWQ0;Q9UBU8;Q9H160;Q96MG7;P67775;Q14508;Q9NV56;Q14511;Q9H0E9;Q99816;Q86VY4;Q14512;Q15524;Q9ULC4;Q66K89;Q96019;Q9NPF5}

2262 Pathogen[ P03346] interacts with 34 human  
partners:{Q15524;Q15834;Q14511;Q693B1;Q9NV56;Q75159;Q96MG7;Q5PSV4;Q99816;Q92826;P67775;Q66K89;Q14508;Q9H0E9;P30153;Q96019;Q86VY4;P78395;Q95990;Q9UBU8;Q8WWQ0;Q9NNT2;Q9H2F5;Q15014;Q95619;Q99608;A6NDV4;Q9HA38;Q92993;Q14512;Q9ULC4;Q9H160;Q9NXR8;Q9NPF5}

2263 Pathogen[ Q85601] interacts with 29 human  
partners:{Q95619;Q99816;Q15014;Q9H2F5;Q15834;Q5PSV4;Q96MG7;Q9H0E9;Q9UBU8;P30153;Q969T4;Q96019;Q99608;Q14508;Q86VY4;Q8WWQ0;Q9HA38;P67775;Q66K89;Q92993;Q14512;Q9NV56;P17677;Q9NXR8;Q9H160;Q14511;Q9ULC4;P78395;Q9NPF5}

2264 Pathogen[ P14079] interacts with 28 human  
partners:{Q15014;P17677;Q9ULC4;Q9UBU8;A6NDV4;Q5PSV4;Q95990;P29401;Q8WWQ0;Q99608;Q9H0E9;Q9NV56;Q9NPF5;Q66K89;Q9NNT2;Q15834;Q9HA38;Q9H2F5;Q14508;Q14512;P78395;Q96MG7;P30153;Q86VY4;Q99816;Q95619;Q9H160;Q92993}

2265 Pathogen[ P03383] interacts with 25 human  
partners:{Q15014;Q96019;Q86VY4;Q5PSV4;Q99608;Q9NV56;Q9H2F5;Q9UBU8;Q99816;P30153;P67775;Q92993;Q66K89;Q9H0E9;Q9H160;Q9NPF5;Q14511;P78395;Q96MG7;Q8WWQ0;Q14512;Q95619;Q9ULC4;Q15834;Q95990}

2266 Pathogen[ P03410] interacts with 31 human  
partners:{Q95619;Q9NV56;Q15014;Q95990;Q66K89;Q96019;Q9NPF5;Q99608;Q9UBU8;A6NDV4;Q96MG7;Q9H2F5;Q99816;Q9ULC4;Q14511;Q8WWQ0;Q14508;P78395;Q9NXR8;Q86VY4;Q9H160;Q9NNT2;Q15834;P30153;Q9HA38;P17677;Q14512;P67775;Q9H0E9;Q92993;Q5PSV4}

2267 Pathogen[ P14075] interacts with 24 human  
partners:{Q14511;Q99608;Q9H2F5;Q8WWQ0;Q9UBU8;P78395;Q15014;Q5PSV4;Q95619;Q92993;Q9NPF5;Q96019;Q95990;Q15834;P67775;P30153;Q9NV56;Q66K89;Q86VY4;Q99816;Q14512;Q9H160;Q9ULC4;Q96MG7}

2268 Pathogen[ P0C206] interacts with 35 human  
partners:{Q9H2F5;Q9NPF5;P17677;Q9UBU8;Q9NNT2;P30153;P78395;Q86VY4;Q96MG7;Q99816;Q15524;Q92993;P67775;Q15014;Q9NXR8;Q9H160;Q8WWQ0;A6NDV4;Q96019;Q693B1;Q95619;Q95990;Q14508;Q15834;Q99608;Q969T4;Q9HA38;Q5PSV4;Q9ULC4;Q9NV56;Q14512;Q66K89;Q14511;Q9H0E9;P29401}

2269 Pathogen[ P03363] interacts with 32 human  
partners:{Q9NPF5;Q9H160;Q95619;Q95990;Q15834;Q75159;Q8WWQ0;Q15524;Q15014;Q9H2F5;Q66K89;P78395;Q99608;Q9UBU8;Q96019;Q14511;Q86VY4;Q92826;Q969T4;Q9NV56;Q99816;Q9ULC4;Q14508;Q96MG7;Q14512;Q9NNT2;P30153;P67775;Q5PSV4;Q9H0E9;Q92993;Q693B1}

2270 [Cluster 207]GO:0070262+P biological\_process [name] peptidyl-serine dephosphorylation [def] "The removal of phosphoric residues from peptidyl-O-phospho-L-serine to form peptidyl-serine." [GOC

2271 Pathogen[ Q2Q067] interacts with 1 human partners:{P30153}

2272 Pathogen[ P0C214] interacts with 1 human partners:{P30153}

2273 Pathogen[ P03346] interacts with 1 human partners:{P30153}

2274 Pathogen[ Q85601] interacts with 1 human partners:{P30153}

2275 Pathogen[ P14079] interacts with 1 human partners:{P30153}

2276 Pathogen[ P03383] interacts with 1 human partners:{P30153}

2277 Pathogen[ P03410] interacts with 1 human partners:{P30153}

2278 Pathogen[ P14075] interacts with 1 human partners:{P30153}

2279 Pathogen[ P0C206] interacts with 1 human partners:{P30153}

2280 Pathogen[ P03363] interacts with 1 human partners:{P30153}

2281 [Cluster 208]GO:0006048+P biological\_process [name] UDP-N-acetylglucosamine biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of UDP-N-acetylglucosamine, a substance composed of N-acetylglucosamine, a common structural unit of oligosaccharides, in glycosidic linkage with uridine diphosphate." [GOC

2282 Pathogen[ Q2Q067] interacts with 2 human partners:{Q95394;Q16222}

2283 Pathogen[ P0C214] interacts with 3 human partners:{Q16222;Q95394;Q96EK6}

2284 Pathogen[ P03346] interacts with 2 human partners:{Q16222;Q95394}

2285 Pathogen[ Q85601] interacts with 3 human partners:{Q16222;Q96EK6;Q95394}

2286 Pathogen[ P14079] interacts with 3 human partners:{Q16222;Q95394;Q96EK6}

2287 Pathogen[ P03383] interacts with 1 human partners:{Q95394}

2288 Pathogen[ P03410] interacts with 3 human partners:{Q16222;Q96EK6;Q95394}

2289 Pathogen[ P14075] interacts with 2 human partners:{Q95394;Q96EK6}

2290 Pathogen[ P0C206] interacts with 3 human partners:{Q16222;Q95394;Q96EK6}

2291 Pathogen[ P03363] interacts with 1 human partners:{Q16222}

2292 [Cluster 209]GO:0030509+P biological\_process [name] BMP signaling pathway [def] "A series of molecular signals generated as a consequence of any member of the BMP (bone morphogenetic protein) family binding to a cell surface receptor." [ISBN

2293 Pathogen[ Q2Q067] interacts with 16 human  
partners:{Q9HAU4;Q13485;P41134;P61077;P35548;P17098;P12755;P51668;Q15105;Q43541;Q151



2294 Pathogen[ P0C214] interacts with 18 human partners: {O15198;Q9HAU4;Q93008;P61077;Q9HCE7;P41134;Q13485;O15105;P17098;O43541;P12755;P18146;Q6ZVN8;Q99717;P13533;Q15797;P51668;P35548}

2295 Pathogen[ P03346] interacts with 16 human partners: {Q9HAU4;Q6ZVN8;P17098;P35548;Q93008;Q15797;Q99717;O15105;P51668;P61077;O15198;Q7Z3T8;O43541;P41134;Q13485;P18146}

2296 Pathogen[ Q85601] interacts with 16 human partners: {P18146;O15198;Q9HAU4;P41134;P13533;O43541;Q15797;P51668;Q93008;P61077;P12755;P17098;Q99717;P35548;O15105;Q13485}

2297 Pathogen[ P14079] interacts with 13 human partners: {P17098;P12755;Q6ZVN8;O15198;Q9HAU4;Q15797;P61077;P51668;O43541;Q7Z3T8;P41134;P28360;O15105}

2298 Pathogen[ P03383] interacts with 12 human partners: {O15198;Q13485;Q15797;P17098;P18146;P61077;O15105;P35548;Q6ZVN8;Q99717;O43541;P51668}

2299 Pathogen[ P03410] interacts with 16 human partners: {P12755;Q99717;O15198;P41134;P35548;P17098;Q6ZVN8;Q15797;Q13485;P51668;O43541;O15105;P13533;P18146;Q7Z3T8;P61077}

2300 Pathogen[ P14075] interacts with 11 human partners: {O43541;P35548;P18146;Q99717;P61077;P17098;Q13485;Q6ZVN8;O15198;O15105;P51668}

2301 Pathogen[ P0C206] interacts with 18 human partners: {O43541;P13533;Q9HAU4;Q93008;Q99717;P18146;P12755;P41134;O15105;Q7Z3T8;P35548;Q6ZVN8;Q13485;Q15797;P61077;O15198;P51668;P17098}

2302 Pathogen[ P03363] interacts with 16 human partners: {P18146;Q9HAU4;P17098;P35548;O15105;Q15797;P19883;O43541;P41134;Q6ZVN8;P51668;Q13485;P61077;Q99717;O15198;Q93008}

2303 [Cluster 210]GO:000070+P biological\_process [name] mitotic sister chromatid segregation [def] "The cell cycle process in which replicated homologous chromosomes are organized and then physically separated and apportioned to two sets during the mitotic cell cycle. Each replicated chromosome, composed of two sister chromatids, aligns at the cell equator, paired with its homologous partner. One homolog of each morphologic type goes into each of the resulting chromosome sets." [GOC

2304 Pathogen[ Q2Q067] interacts with 11 human partners: {Q14674;Q96R06;Q13257;O43684;Q9Y448;O43264;Q9ULG1;Q9BXS6;Q14683;O95229;O14777}

2305 Pathogen[ P0C214] interacts with 11 human partners: {O43684;Q13257;O43264;Q96R06;Q9BXS6;O95229;Q9ULG1;Q14683;Q9Y448;O14777;Q14674}

2306 Pathogen[ P03346] interacts with 11 human partners: {Q9BXS6;O95229;O43684;Q96R06;Q9ULG1;O43264;O14777;Q14683;Q9Y448;Q14674;Q13257}

2307 Pathogen[ Q85601] interacts with 12 human partners: {O95229;O43264;Q9BXS6;Q14674;Q96R06;Q13257;Q9Y448;Q14683;Q9ULG1;O14777;O43684;P51955}

2308 Pathogen[ P14079] interacts with 13 human partners: {Q9ULG1;Q96R06;O95229;Q14674;Q9Y448;Q9BXS6;P51955;Q13257;O43264;Q96FC9;Q14683;O14777;O43684}

2309 Pathogen[ P03383] interacts with 10 human partners: {Q14683;Q13257;O43264;Q9BXS6;Q96R06;O95229;Q14674;O43684;Q9Y448;O14777}

2310 Pathogen[ P03410] interacts with 12 human partners: {O43684;Q9ULG1;Q96R06;Q9BXS6;Q14674;O43264;Q9Y448;Q14683;Q96FC9;O95229;O14777;Q13257}

2311 Pathogen[ P14075] interacts with 10 human partners: {Q14683;Q96R06;Q13257;Q9BXS6;O43684;O14777;O95229;Q14674;O43264;Q9Y448}

2312 Pathogen[ P0C206] interacts with 13 human partners: {P51955;O14777;Q9Y448;Q13257;Q9ULG1;Q14683;Q14674;Q9BXS6;O43684;Q9BW19;O43264;Q9NTJ3;O95229}

2313 Pathogen[ P03363] interacts with 11 human partners: {Q9ULG1;O95229;O43264;Q9BXS6;Q96R06;O43684;Q13257;Q14674;O14777;Q9Y448;Q14683}

2314 [Cluster 211]GO:0033146+P biological\_process [name] regulation of intracellular estrogen receptor signaling pathway [def] "Any process that modulates the frequency, rate or extent of the activity of an intracellular estrogen receptor signaling pathway." [GOC

2315 Pathogen[ Q2Q067] interacts with 2 human partners: {Q8WXU2;Q86X55}

2316 Pathogen[ P0C214] interacts with 2 human partners: {Q8WXU2;Q86X55}

2317 Pathogen[ P03346] interacts with 2 human partners: {Q8WXU2;Q86X55}

2318 Pathogen[ Q85601] interacts with 2 human partners: {Q86X55;Q8WXU2}

2319 Pathogen[ P14079] interacts with 1 human partners: {Q8WXU2}

2320 Pathogen[ P03383] interacts with 2 human partners: {Q86X55;Q8WXU2}

2321 Pathogen[ P03410] interacts with 2 human partners: {Q8WXU2;Q86X55}

2322 Pathogen[ P14075] interacts with 2 human partners: {Q86X55;Q8WXU2}

2323 Pathogen[ P0C206] interacts with 2 human partners: {Q86X55;Q8WXU2}

2324 Pathogen[ P03363] interacts with 2 human partners: {Q8WXU2;Q86X55}

2325 [Cluster 212]GO:0051044+P biological\_process [name] positive regulation of membrane protein ectodomain proteolysis [def] "Any process that activates or increases the frequency, rate or extent of membrane protein ectodomain peptidolysis." [GOC

2326 Pathogen[ Q2Q067] interacts with 1 human partners:{Q5HYK7}

2327 Pathogen[ P0C214] interacts with 1 human partners:{Q5HYK7}

2328 Pathogen[ P03346] interacts with 2 human partners:{Q9UKS6;Q5HYK7}

2329 Pathogen[ Q85601] interacts with 1 human partners:{Q5HYK7}

2330 Pathogen[ P14079] interacts with 2 human partners:{Q9UKS6;Q5HYK7}

2331 Pathogen[ P03383] interacts with 1 human partners:{Q5HYK7}

2332 Pathogen[ P03410] interacts with 2 human partners:{Q5HYK7;Q9UKS6}

2333 Pathogen[ P14075] interacts with 1 human partners:{Q5HYK7}

2334 Pathogen[ P0C206] interacts with 2 human partners:{Q5HYK7;Q9UKS6}

2335 Pathogen[ P03363] interacts with 2 human partners:{Q9UKS6;Q5HYK7}

2336 [Cluster 213]GO:0005979+P biological\_process [name] regulation of glycogen biosynthetic process [def] "Any process that modulates the frequency, rate or extent of the chemical reactions and pathways resulting in the formation of glycogen." [GOC

2337 Pathogen[ Q2Q067] interacts with 4 human partners:{P31749;P62140;P62136;Q9UQK1}

2338 Pathogen[ P0C214] interacts with 6 human partners:{P62140;O95685;P62136;P31749;Q9UQK1;Q9H7J1}

2339 Pathogen[ P03346] interacts with 6 human partners:{P62136;Q9UQK1;O95685;Q9H7J1;P31749;P62140}

2340 Pathogen[ Q85601] interacts with 4 human partners:{P31749;Q9UQK1;P62136;P62140}

2341 Pathogen[ P14079] interacts with 5 human partners:{Q9H7J1;P62136;O95685;P62140;Q9UQK1}

2342 Pathogen[ P03383] interacts with 5 human partners:{P62140;Q9UQK1;P31749;P62136;Q9H7J1}

2343 Pathogen[ P03410] interacts with 6 human partners:{P62136;O95685;P31749;Q9H7J1;P62140;Q9UQK1}

2344 Pathogen[ P14075] interacts with 6 human partners:{P62140;Q9UQK1;P62136;P31749;O95685;Q9H7J1}

2345 Pathogen[ P0C206] interacts with 6 human partners:{P31749;Q9UQK1;P62140;O95685;Q9H7J1;P62136}

2346 Pathogen[ P03363] interacts with 4 human partners:{P62136;P62140;P31749;Q9UQK1}

2347 [Cluster 214]GO:0002934+P

2348 Pathogen[ Q2Q067] interacts with 1 human partners:{P15924}

2349 Pathogen[ P0C214] interacts with 1 human partners:{P15924}

2350 Pathogen[ P03346] interacts with 1 human partners:{P15924}

2351 Pathogen[ Q85601] interacts with 1 human partners:{P15924}

2352 Pathogen[ P14079] interacts with 1 human partners:{P15924}

2353 Pathogen[ P03383] interacts with 1 human partners:{P15924}

2354 Pathogen[ P03410] interacts with 1 human partners:{P15924}

2355 Pathogen[ P14075] interacts with 1 human partners:{P15924}

2356 Pathogen[ P0C206] interacts with 1 human partners:{P15924}

2357 Pathogen[ P03363] interacts with 1 human partners:{P15924}

2358 [Cluster 215]GO:0006811+P biological\_process [name] ion transport [def] "The directed movement of charged atoms or small charged molecules into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore." [GOC

2359 Pathogen[ Q2Q067] interacts with 4 human partners:{Q9BSW2;P36543;Q9UBX3;P24539}

2360 Pathogen[ P0C214] interacts with 8 human partners:{Q16864;Q9UI12;P36543;P36542;Q9UBX3;P24539;Q99766;Q9BSW2}

2361 Pathogen[ P03346] interacts with 12 human partners:{P21283;Q86UT5;Q9UBX3;Q9Y5K8;P36543;Q93050;O00299;Q14847;P24539;O95833;Q9BSW2;Q16864}

2362 Pathogen[ Q85601] interacts with 6 human partners:{P24539;Q9UBX3;Q93050;Q99766;Q9BSW2;P36543}

2363 Pathogen[ P14079] interacts with 40 human partners:{P36543;P0CG08;P36542;Q9Y5K8;P56134;P25705;P61421;Q8NBQ7;Q6NVV3;Q0D2K0;Q86UT5;P27352;Q96LB4;Q9BSW2;P56385;Q8NE01;Q5VTU8;Q8NE86;A1A5B4;Q14847;Q9NQ90;Q7Z4Y8;P03928;Q9BYT9;Q8N8Q9;Q8N8Y2;Q99766;B7ZAQ6;O75964;Q93050;O43687;Q9UI12;Q96BY9;P56381;O95670;O00244;Q7RTP0;Q16864;P24539;Q9H6F2}

2364 Pathogen[ P03383] interacts with 3 human partners:{Q9BSW2;P36543;P24539}

2365 Pathogen[ P03410] interacts with 43 human partners:{Q9NQ90;Q86UT5;Q0D2K0;Q99766;Q8N8Y2;P36542;P25705;B7ZAQ6;P61421;P59646;Q93050;P56385;Q9UBX3;P56381;Q8NE86;Q9H6F2;Q96BY9;Q5VTU8;P0CG08;Q15049;Q14847;P03928;Q9UI12;Q96LB4;P24539;Q9BYT9;O95670;O75964;Q6NVV3;Q96D96;Q16864;Q8N8Q9;O43687;Q7RTP0;Q8IU99;Q9Y5K8;P27352;A1A5B4;P18859;O75348;P36543;P56134;Q7Z4Y8}

2366 Pathogen[ P14075] interacts with 5 human partners:{Q9BSW2;Q99766;P24539;P56385;P36543}

2367 Pathogen[ P0C206] interacts with 17 human partners:{P36543;Q9NQ90;Q99766;P36542;Q8NE86;Q9UBX3;Q86UT5;Q9UI12;P24539;Q9Y5K8;Q16864;P0CG08;P56381;Q9BSW2;P56385;Q93050;B7ZAQ6}

2368 Pathogen[ P03363] interacts with 6 human partners:{P36543;Q14847;Q9BSW2;Q86UT5;Q9Y5K8;O95833}

2369 [Cluster 216]GO:0050678+P biological\_process [name] regulation of epithelial cell proliferation [def] "Any process that modulates the frequency, rate or extent of epithelial cell proliferation." [GOC

2370 Pathogen[ Q2Q067] interacts with 2 human partners:{P05114;P84022}

2371 Pathogen[ POC214] interacts with 3 human partners:{P36952;P84022;P05114}

2372 Pathogen[ P03346] interacts with 3 human partners:{P06401;P05114;P84022}

2373 Pathogen[ Q85601] interacts with 3 human partners:{P36952;P84022;P05114}

2374 Pathogen[ P14079] interacts with 2 human partners:{P05114;Q8WU20}

2375 Pathogen[ P03383] interacts with 3 human partners:{P36952;P84022;P05114}

2376 Pathogen[ P03410] interacts with 4 human partners:{P84022;P36952;Q8WU20;P05114}

2377 Pathogen[ P14075] interacts with 2 human partners:{P84022;P05114}

2378 Pathogen[ POC206] interacts with 5 human partners:{P84022;P06401;P05114;P36952;Q8WU20}

2379 Pathogen[ P03363] interacts with 3 human partners:{P36952;P84022;P05114}

2380 [Cluster 217]GO:0010626+P biological\_process [name] negative regulation of Schwann cell proliferation [def] "Any process that decreases the frequency or extent of the multiplication or reproduction of Schwann cells, resulting in the expansion of their population. Schwann cells are a type of glial cell in the peripheral nervous system." [GOC

2381 Pathogen[ Q2Q067] interacts with 2 human partners:{Q8N5U6;P12755}

2382 Pathogen[ POC214] interacts with 2 human partners:{Q8N5U6;P12755}

2383 Pathogen[ P03346] interacts with 2 human partners:{Q8N5U6;Q99929}

2384 Pathogen[ Q85601] interacts with 2 human partners:{P12755;Q8N5U6}

2385 Pathogen[ P14079] interacts with 2 human partners:{P12755;Q8N5U6}

2386 Pathogen[ P03383] interacts with 1 human partners:{Q8N5U6}

2387 Pathogen[ P03410] interacts with 2 human partners:{P12755;Q8N5U6}

2388 Pathogen[ P14075] interacts with 1 human partners:{Q8N5U6}

2389 Pathogen[ POC206] interacts with 2 human partners:{Q8N5U6;P12755}

2390 Pathogen[ P03363] interacts with 2 human partners:{Q8N5U6;Q99929}

2391 [Cluster 218]GO:0008298+P biological\_process [name] intracellular mRNA localization [def] "Any process in which mRNA is transported to, or maintained in, a specific location within the cell." [GOC

2392 Pathogen[ Q2Q067] interacts with 2 human partners:{O15234;O95793}

2393 Pathogen[ POC214] interacts with 3 human partners:{O15234;O95793;Q96G01}

2394 Pathogen[ P03346] interacts with 3 human partners:{Q96G01;O15234;O95793}

2395 Pathogen[ Q85601] interacts with 3 human partners:{O15234;O95793;Q96G01}

2396 Pathogen[ P14079] interacts with 3 human partners:{O95793;Q96G01;O15234}

2397 Pathogen[ P03383] interacts with 1 human partners:{O15234}

2398 Pathogen[ P03410] interacts with 3 human partners:{O15234;Q96G01;O95793}

2399 Pathogen[ P14075] interacts with 1 human partners:{O15234}

2400 Pathogen[ POC206] interacts with 3 human partners:{O95793;O15234;Q96G01}

2401 Pathogen[ P03363] interacts with 2 human partners:{O95793;O15234}

2402 [Cluster 219]GO:0006091+P biological\_process [name] generation of precursor metabolites and energy [def] "The chemical reactions and pathways resulting in the formation of precursor metabolites, substances from which energy is derived, and any process involved in the liberation of energy from these substances." [GOC

2403 Pathogen[ Q2Q067] interacts with 8 human partners:{Q9BU02;Q16656;P13073;P41236;Q9UII2;P54840;Q06455;P49715}

2404 Pathogen[ POC214] interacts with 15 human partners:{Q04446;Q9BU02;Q16656;P41236;Q06455;Q99798;Q9UII2;P12074;Q93100;P13073;P54840;P22830;Q14061;P46020;P36957}

2405 Pathogen[ P03346] interacts with 8 human partners:{Q16656;P49715;Q9UII2;P13073;Q9BU02;P54840;P41236;Q06455}

2406 Pathogen[ Q85601] interacts with 9 human partners:{Q06455;Q16656;Q9BU02;Q9UII2;P41236;Q14061;Q04446;P49715;P54840}

2407 Pathogen[ P14079] interacts with 21 human partners:{P13073;P12074;P10109;Q9UII2;Q16656;Q93100;Q02221;P41236;Q14061;O75880;P49715;P09669;Q9BU02;P22830;P46926;Q96KJ9;Q06455;P24310;P15954;P54840;P46020}

2408 Pathogen[ P03383] interacts with 7 human partners:{P13073;Q06455;Q9BU02;Q16656;Q9UII2;P54840;P41236}

2409 Pathogen[ P03410] interacts with 21 human partners:{Q96KJ9;Q02221;Q9BU02;Q14061;P54840;P15954;P46020;Q04446;P41236;P13073;P46926;Q9UII2;Q93100;P22830;Q06455;P09669;P24310;P10109;Q16656;O75880;P12074}

2410 Pathogen[ P14075] interacts with 9 human partners:{Q16656;Q93100;P13073;P41236;P54840;Q9UII2;Q06455;Q9BU02;Q14061}

2411 Pathogen[ POC206] interacts with 17 human partners:{Q06455;Q93100;P41236;P12074;Q04446;P49715;P46020;P54840;Q16656;P13073;P22830;P46926;Q99798;Q9BU02;Q14061;Q9UII2;Q02221}

2412 Pathogen[ P03363] interacts with 5 human partners:{Q06455;P41236;Q16656;P54840;Q9BU02}

2413 [Cluster 220]GO:0043406+P biological\_process [name] positive regulation of MAP kinase activity [def] "Any process that activates or increases the frequency, rate or extent of MAP kinase activity." [GOC

2414 Pathogen[ Q2Q067] interacts with 8 human partners:{Q9Y5V3;Q96IF1;Q8WYR1;P25063;Q13233;Q9BUL8;Q16890;Q5UE93}

2415 Pathogen[ POC214] interacts with 7 human partners:{Q9Y5V3;Q9BUL8;Q16890;Q13233;Q8WYR1;Q5UE93;P25063}

2416 Pathogen[ P03346] interacts with 8 human partners:{Q8WYR1;Q96IF1;Q16890;Q13233;Q9Y5V3;Q5UE93;P25063;Q9BUL8}

2417 Pathogen[ Q85601] interacts with 7 human partners:{Q16890;Q9BUL8;Q9Y5V3;Q96IF1;Q8WYR1;Q13233;Q5UE93}

2418 Pathogen[ P14079] interacts with 7 human partners:{Q16890;Q8WYR1;Q9BUL8;Q9Y5V3;Q96IF1;P25063;Q5UE93}

2419 Pathogen[ P03383] interacts with 7 human partners:{Q13233;P25063;Q9Y5V3;Q9BUL8;Q8WYR1;Q5UE93;Q16890}

2420 Pathogen[ P03410] interacts with 8 human partners:{Q5UE93;Q8WYR1;Q9BUL8;Q13233;Q96IF1;P25063;Q9Y5V3;Q16890}

2421 Pathogen[ P14075] interacts with 7 human partners:{Q9BUL8;Q8WYR1;Q5UE93;Q16890;Q13233;Q9Y5V3;P25063}

2422 Pathogen[ P0C206] interacts with 8 human partners:{Q96IF1;Q9Y5V3;Q16890;Q13233;P25063;Q9BUL8;Q5UE93;Q8WYR1}

2423 Pathogen[ P03363] interacts with 7 human partners:{Q9BUL8;Q8WYR1;Q96IF1;Q5UE93;Q16890;Q9Y5V3;Q13233}

2424 [Cluster 221]GO:0001842+P biological\_process [name] neural fold formation [def] "The process in which the neural fold is formed. The edges of the neural plate thicken and move up to form a U-shaped structure called the neural groove." [GOC

2425 Pathogen[ Q2Q067] interacts with 2 human partners:{Q86YP4;P23528}

2426 Pathogen[ P0C214] interacts with 1 human partners:{Q86YP4}

2427 Pathogen[ P03346] interacts with 2 human partners:{Q86YP4;P23528}

2428 Pathogen[ Q85601] interacts with 2 human partners:{Q86YP4;P23528}

2429 Pathogen[ P14079] interacts with 2 human partners:{Q86YP4;P23528}

2430 Pathogen[ P03383] interacts with 2 human partners:{Q86YP4;P23528}

2431 Pathogen[ P03410] interacts with 2 human partners:{Q86YP4;P23528}

2432 Pathogen[ P14075] interacts with 2 human partners:{P23528;Q86YP4}

2433 Pathogen[ P0C206] interacts with 2 human partners:{Q86YP4;P23528}

2434 Pathogen[ P03363] interacts with 2 human partners:{Q86YP4;P23528}

2435 [Cluster 222]GO:0045943+P biological\_process [name] positive regulation of transcription from RNA polymerase I promoter [def] "Any process that activates or increases the frequency, rate or extent of transcription from an RNA polymerase I promoter." [GOC

2436 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9UPP1;P17480}

2437 Pathogen[ P0C214] interacts with 2 human partners:{P17480;Q9UPP1}

2438 Pathogen[ P03346] interacts with 2 human partners:{P17480;Q9UPP1}

2439 Pathogen[ Q85601] interacts with 2 human partners:{P17480;Q9UPP1}

2440 Pathogen[ P14079] interacts with 2 human partners:{P17480;Q9UPP1}

2441 Pathogen[ P03383] interacts with 2 human partners:{P17480;Q9UPP1}

2442 Pathogen[ P03410] interacts with 2 human partners:{Q9UPP1;P17480}

2443 Pathogen[ P14075] interacts with 2 human partners:{P17480;Q9UPP1}

2444 Pathogen[ P0C206] interacts with 2 human partners:{Q9UPP1;P17480}

2445 Pathogen[ P03363] interacts with 1 human partners:{P17480}

2446 [Cluster 223]GO:0060393+P biological\_process [name] regulation of pathway-restricted SMAD protein phosphorylation [def] "Any process that modulates the rate, frequency or extent of pathway-restricted SMAD protein phosphorylation. Pathway-restricted SMAD proteins and common-partner SMAD proteins are involved in the transforming growth factor beta receptor signaling pathways." [GOC

2447 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13526}

2448 Pathogen[ P0C214] interacts with 1 human partners:{Q13526}

2449 Pathogen[ P03346] interacts with 1 human partners:{Q13526}

2450 Pathogen[ Q85601] interacts with 1 human partners:{Q13526}

2451 Pathogen[ P14079] interacts with 1 human partners:{Q13526}

2452 Pathogen[ P03383] interacts with 1 human partners:{Q13526}

2453 Pathogen[ P03410] interacts with 1 human partners:{Q13526}

2454 Pathogen[ P14075] interacts with 1 human partners:{Q13526}

2455 Pathogen[ P0C206] interacts with 1 human partners:{Q13526}

2456 Pathogen[ P03363] interacts with 1 human partners:{Q13526}

2457 [Cluster 224]GO:0045218+P biological\_process [name] zonula adherens maintenance [def] "Maintaining the zonula adherens junction, the cell-cell adherens junction formed near the apex of epithelial cells." [GOC

2458 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9P1Y5}

2459 Pathogen[ P0C214] interacts with 1 human partners:{Q9P1Y5}

2460 Pathogen[ P03346] interacts with 2 human partners:{Q9P1Y5;Q6IQ23}

2461 Pathogen[ Q85601] interacts with 2 human partners:{Q9P1Y5;Q6IQ23}

2462 Pathogen[ P14079] interacts with 2 human partners:{Q6IQ23;Q9P1Y5}

2463 Pathogen[ P03383] interacts with 1 human partners:{Q9P1Y5}

2464 Pathogen[ P03410] interacts with 2 human partners:{Q9P1Y5;Q6IQ23}

2465 Pathogen[ P14075] interacts with 1 human partners:{Q9P1Y5}

2466 Pathogen[ P0C206] interacts with 2 human partners:{Q9P1Y5;Q6IQ23}

2467 Pathogen[ P03363] interacts with 2 human partners:{Q9P1Y5;Q6IQ23}

2468 [Cluster 225]GO:0006777+P biological\_process [name] Mo-molybdopterin cofactor biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of the Mo-molybdopterin cofactor, essential for the catalytic activity of some enzymes. The cofactor consists of a mononuclear molybdenum (Mo) ion coordinated by one or two molybdopterin ligands." [http

2469 Pathogen[ Q2Q067] interacts with 2 human partners:{O96007;Q9Y697}

2470 Pathogen[ P0C214] interacts with 5 human

partners:{O96033;O95396;Q9Y697;O96007;Q8NFF5}  
 2471 Pathogen[ P03346] interacts with 2 human partners:{Q9Y697;O96007}  
 2472 Pathogen[ Q85601] interacts with 2 human partners:{Q9Y697;O96007}  
 2473 Pathogen[ P14079] interacts with 4 human partners:{Q8NFF5;O96007;O96033;Q9Y697}  
 2474 Pathogen[ P03383] interacts with 2 human partners:{Q9Y697;O96007}  
 2475 Pathogen[ P03410] interacts with 4 human partners:{Q8NFF5;Q9Y697;O96007;O96033}  
 2476 Pathogen[ P14075] interacts with 2 human partners:{O96007;Q9Y697}  
 2477 Pathogen[ P0C206] interacts with 3 human partners:{Q9Y697;O96007;O95396}  
 2478 Pathogen[ P03363] interacts with 2 human partners:{O96007;Q9Y697}  
 2479 [Cluster 226]GO:0022008+P biological\_process [name] neurogenesis [def] "Generation of cells within the nervous system." [GO\_REF  
 2480 Pathogen[ Q2Q067] interacts with 8 human  
 partners:{Q13562;Q9HAZ2;P36402;Q96SN8;Q96K30;O95359;Q9BUX1;O75410}  
 2481 Pathogen[ P0C214] interacts with 8 human  
 partners:{Q96SN8;Q99807;O95359;Q9BUX1;Q9HAZ2;Q96K30;P36402;O75410}  
 2482 Pathogen[ P03346] interacts with 16 human  
 partners:{Q9BUX1;P36402;O43379;O75410;O95359;Q92886;Q9H4Q3;P78426;Q9HCS4;Q8N960;Q96S  
 N8;Q96K30;Q9H4Q4;Q9HAZ2;Q13562;Q9H2A3}  
 2483 Pathogen[ Q85601] interacts with 10 human  
 partners:{Q9BUX1;Q96SN8;Q13562;P36402;O43379;Q9HCS4;Q96K30;O75410;O95359;Q9HAZ2}  
 2484 Pathogen[ P14079] interacts with 13 human  
 partners:{Q9HAZ2;Q96K30;Q99807;O95359;Q9Y6A5;O43379;P36402;Q8N960;O75503;P47874;O754  
 10;Q9BUX1;Q96SN8}  
 2485 Pathogen[ P03383] interacts with 6 human  
 partners:{Q9BUX1;Q96SN8;O75410;Q96K30;Q9HAZ2;P36402}  
 2486 Pathogen[ P03410] interacts with 14 human  
 partners:{Q8N960;O95359;Q9HAZ2;Q96K30;P36402;Q96SN8;Q9BUX1;Q9Y6A5;O75503;O43379;O754  
 10;Q9HCS4;Q99807;P47874}  
 2487 Pathogen[ P14075] interacts with 6 human  
 partners:{O75410;Q96SN8;Q9HAZ2;Q96K30;Q9BUX1;P36402}  
 2488 Pathogen[ P0C206] interacts with 15 human  
 partners:{O95359;Q96SN8;Q9HAZ2;Q9BUX1;Q96K30;Q9HCS4;Q9NQX0;O75410;O43379;Q9Y6A5;Q998  
 07;Q13562;P36402;Q8N960;Q9H2A3}  
 2489 Pathogen[ P03363] interacts with 12 human  
 partners:{Q92886;O75410;P36402;Q9BUX1;Q96K30;Q9HCS4;O43379;O95359;Q96SN8;Q9HAZ2;Q9H2  
 A3;Q8N960}  
 2490 [Cluster 227]GO:0030728+P biological\_process [name] ovulation [def] "The release  
 of a mature ovum/oocyte from an ovary." [GOC  
 2491 Pathogen[ Q2Q067] interacts with 1 human partners:{P48552}  
 2492 Pathogen[ P0C214] interacts with 1 human partners:{P48552}  
 2493 Pathogen[ P03346] interacts with 1 human partners:{P48552}  
 2494 Pathogen[ Q85601] interacts with 1 human partners:{P48552}  
 2495 Pathogen[ P14079] interacts with 2 human partners:{P48552;Q8TCU4}  
 2496 Pathogen[ P03383] interacts with 1 human partners:{P48552}  
 2497 Pathogen[ P03410] interacts with 2 human partners:{Q8TCU4;P48552}  
 2498 Pathogen[ P14075] interacts with 1 human partners:{P48552}  
 2499 Pathogen[ P0C206] interacts with 2 human partners:{Q8TCU4;P48552}  
 2500 Pathogen[ P03363] interacts with 1 human partners:{P48552}  
 2501 [Cluster 228]GO:0071773+P biological\_process [name] cellular response to BMP stimulus  
 [def] "Any process that results in a change in state or activity of a cell (in terms of  
 movement, secretion, enzyme production, gene expression, etc.) as a result of a bone  
 morphogenetic protein (BMP) stimulus." [GOC  
 2502 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9NQ87;Q9BWX5}  
 2503 Pathogen[ P0C214] interacts with 1 human partners:{Q9NQ87}  
 2504 Pathogen[ P03346] interacts with 2 human partners:{Q9BWX5;Q9NQ87}  
 2505 Pathogen[ Q85601] interacts with 2 human partners:{Q9BWX5;Q9NQ87}  
 2506 Pathogen[ P14079] interacts with 2 human partners:{Q9BWX5;Q9NQ87}  
 2507 Pathogen[ P03383] interacts with 1 human partners:{Q9NQ87}  
 2508 Pathogen[ P03410] interacts with 2 human partners:{Q9NQ87;Q9BWX5}  
 2509 Pathogen[ P14075] interacts with 1 human partners:{Q9NQ87}  
 2510 Pathogen[ P0C206] interacts with 2 human partners:{Q9NQ87;Q9BWX5}  
 2511 Pathogen[ P03363] interacts with 2 human partners:{Q9NQ87;Q9BWX5}  
 2512 [Cluster 229]GO:0050808+P biological\_process [name] synapse organization [def] "A  
 process that is carried out at the cellular level which results in the assembly,  
 arrangement of constituent parts, or disassembly of a synapse, the junction between a  
 neuron and a target (neuron, muscle, or secretory cell)." [GOC  
 2513 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9NYF0;Q16143}  
 2514 Pathogen[ P0C214] interacts with 2 human partners:{Q16143;Q9NYF0}  
 2515 Pathogen[ P03346] interacts with 2 human partners:{Q16143;Q9NYF0}  
 2516 Pathogen[ Q85601] interacts with 2 human partners:{Q9NYF0;Q16143}  
 2517 Pathogen[ P14079] interacts with 2 human partners:{Q16143;Q9NYF0}  
 2518 Pathogen[ P03383] interacts with 1 human partners:{Q9NYF0}  
 2519 Pathogen[ P03410] interacts with 2 human partners:{Q16143;Q9NYF0}  
 2520 Pathogen[ P14075] interacts with 1 human partners:{Q9NYF0}  
 2521 Pathogen[ P0C206] interacts with 2 human partners:{Q16143;Q9NYF0}  
 2522 Pathogen[ P03363] interacts with 2 human partners:{Q9NYF0;Q16143}

2523 [Cluster 230]GO:0042133+P biological\_process [name] neurotransmitter metabolic process [def] "The chemical reactions and pathways involving neurotransmitters, any of a group of substances that are released on excitation from the axon terminal of a presynaptic neuron of the central or peripheral nervous system and travel across the synaptic cleft to either excite or inhibit the target cell." [CHEBI

2524 Pathogen[ Q2Q067] interacts with 1 human partners:{P30047}

2525 Pathogen[ P0C214] interacts with 1 human partners:{P30047}

2526 Pathogen[ P03346] interacts with 1 human partners:{P30047}

2527 Pathogen[ Q85601] interacts with 1 human partners:{P30047}

2528 Pathogen[ P14079] interacts with 2 human partners:{Q9UPW5;P30047}

2529 Pathogen[ P03383] interacts with 1 human partners:{P30047}

2530 Pathogen[ P03410] interacts with 2 human partners:{P30047;Q9UPW5}

2531 Pathogen[ P14075] interacts with 1 human partners:{P30047}

2532 Pathogen[ P0C206] interacts with 2 human partners:{P30047;Q9UPW5}

2533 Pathogen[ P03363] interacts with 1 human partners:{P30047}

2534 [Cluster 231]GO:0030317+P biological\_process [name] sperm motility [def] "Any process involved in the controlled movement of a sperm cell." [GOC

2535 Pathogen[ Q2Q067] interacts with 6 human partners:{P49901;Q9H160;O14556;Q9NVM9;P31689;P07864}

2536 Pathogen[ P0C214] interacts with 5 human partners:{P49901;P07864;Q9NVM9;O14556;Q9H160}

2537 Pathogen[ P03346] interacts with 6 human partners:{Q9NVM9;Q9UIF3;O14556;P31689;P49901;Q9H160}

2538 Pathogen[ Q85601] interacts with 5 human partners:{Q9NVM9;P31689;P07864;O14556;Q9H160}

2539 Pathogen[ P14079] interacts with 9 human partners:{Q5JQC9;Q9BVM2;Q9NVM9;P07864;P31689;Q9UIF3;Q9BZX4;Q9H160;P49901}

2540 Pathogen[ P03383] interacts with 6 human partners:{P07864;Q9NVM9;P31689;Q9H160;O14556;P49901}

2541 Pathogen[ P03410] interacts with 10 human partners:{P49901;O14556;Q9NVM9;Q5JQC9;Q9BZX4;Q9UIF3;Q9H160;P31689;P07864;Q9BVM2}

2542 Pathogen[ P14075] interacts with 7 human partners:{P31689;Q9BVM2;P07864;Q9NVM9;Q9H160;P49901;O14556}

2543 Pathogen[ P0C206] interacts with 9 human partners:{Q9BVM2;P07864;Q5JQC9;P49901;Q9UIF3;Q9H160;O14556;Q9NVM9;P31689}

2544 Pathogen[ P03363] interacts with 6 human partners:{Q9H160;Q9UIF3;Q9NVM9;Q5SZQ8;O14556;P49901}

2545 [Cluster 232]GO:0051983+P biological\_process [name] regulation of chromosome segregation [def] "Any process that modulates the frequency, rate or extent of chromosome segregation, the process in which genetic material, in the form of chromosomes, is organized and then physically separated and apportioned to two or more sets." [GOC

2546 Pathogen[ Q2Q067] interacts with 1 human partners:{O43684}

2547 Pathogen[ P0C214] interacts with 1 human partners:{O43684}

2548 Pathogen[ P03346] interacts with 1 human partners:{O43684}

2549 Pathogen[ Q85601] interacts with 1 human partners:{O43684}

2550 Pathogen[ P14079] interacts with 2 human partners:{Q99661;O43684}

2551 Pathogen[ P03383] interacts with 1 human partners:{O43684}

2552 Pathogen[ P03410] interacts with 1 human partners:{O43684}

2553 Pathogen[ P14075] interacts with 1 human partners:{O43684}

2554 Pathogen[ P0C206] interacts with 1 human partners:{O43684}

2555 Pathogen[ P03363] interacts with 1 human partners:{O43684}

2556 [Cluster 233]GO:0060717+P biological\_process [name] chorion development [def] "The biological process whose specific outcome is the progression of a chorion from an initial condition to its mature state. This process begins with the formation of the structure and ends with the mature structure. The chorion is an extraembryonic membrane." [GOC

2557 Pathogen[ Q2Q067] interacts with 1 human partners:{Q6ZW49}

2558 Pathogen[ P0C214] interacts with 1 human partners:{Q6ZW49}

2559 Pathogen[ P03346] interacts with 1 human partners:{Q6ZW49}

2560 Pathogen[ Q85601] interacts with 1 human partners:{Q6ZW49}

2561 Pathogen[ P14079] interacts with 1 human partners:{Q6ZW49}

2562 Pathogen[ P03383] interacts with 1 human partners:{Q6ZW49}

2563 Pathogen[ P03410] interacts with 1 human partners:{Q6ZW49}

2564 Pathogen[ P14075] interacts with 1 human partners:{Q6ZW49}

2565 Pathogen[ P0C206] interacts with 1 human partners:{Q6ZW49}

2566 Pathogen[ P03363] interacts with 1 human partners:{Q6ZW49}

2567 [Cluster 234]GO:0043508+P biological\_process [name] negative regulation of JUN kinase activity [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of JUN kinase activity." [GOC

2568 Pathogen[ Q2Q067] interacts with 4 human partners:{Q8TD23;O15350;Q53EL6;Q9UQF2}

2569 Pathogen[ P0C214] interacts with 4 human partners:{Q8TD23;O15350;Q53EL6;Q9UQF2}

2570 Pathogen[ P03346] interacts with 4 human partners:{Q8TD23;O15350;Q9UQF2;Q53EL6}

2571 Pathogen[ Q85601] interacts with 4 human partners:{Q8TD23;Q9UQF2;Q53EL6;O15350}

2572 Pathogen[ P14079] interacts with 5 human partners:{Q8TD23;Q9UQF2;Q96BJ3;O15350;Q53EL6}

2573 Pathogen[ P03383] interacts with 5 human partners:{Q53EL6;Q8TD23;Q9UQF2;O15350;Q96BJ3}

2574 Pathogen[ P03410] interacts with 5 human partners:{Q96BJ3;Q53EL6;O15350;Q9UQF2;Q8TD23}

2575 Pathogen[ P14075] interacts with 5 human partners:{Q8TD23;Q96BJ3;O15350;Q53EL6;Q9UQF2}

2576 Pathogen[ P0C206] interacts with 5 human partners:{Q9UQF2;Q96BJ3;Q8TD23;Q53EL6;O15350}

2577 Pathogen[ P03363] interacts with 3 human partners:{Q9UQF2;Q53EL6;Q8TD23}

2578 [Cluster 235]GO:0033345+P biological\_process [name] asparagine catabolic process via L-aspartate [def] "The chemical reactions and pathways resulting in the breakdown of glutamate, via the intermediate L-aspartate." [GOC

2579 Pathogen[ Q2Q067] interacts with 1 human partners:{Q7L266}

2580 Pathogen[ P0C214] interacts with 1 human partners:{Q7L266}

2581 Pathogen[ P03346] interacts with 1 human partners:{Q7L266}

2582 Pathogen[ Q85601] interacts with 1 human partners:{Q7L266}

2583 Pathogen[ P14079] interacts with 1 human partners:{Q7L266}

2584 Pathogen[ P03383] interacts with 1 human partners:{Q7L266}

2585 Pathogen[ P03410] interacts with 1 human partners:{Q7L266}

2586 Pathogen[ P14075] interacts with 1 human partners:{Q7L266}

2587 Pathogen[ P0C206] interacts with 1 human partners:{Q7L266}

2588 Pathogen[ P03363] interacts with 1 human partners:{Q7L266}

2589 [Cluster 236]GO:0014898+P biological\_process [name] cardiac muscle hypertrophy in response to stress [def] "The enlargement or overgrowth of all or part of the heart muscle due to an increase in size (not length) of individual cardiac muscle fibers, without cell division." [GOC

2590 Pathogen[ Q2Q067] interacts with 2 human partners:{P56524;O94983}

2591 Pathogen[ P0C214] interacts with 2 human partners:{P56524;O94983}

2592 Pathogen[ P03346] interacts with 2 human partners:{P56524;O94983}

2593 Pathogen[ Q85601] interacts with 2 human partners:{O94983;P56524}

2594 Pathogen[ P14079] interacts with 3 human partners:{P56524;O15273;O94983}

2595 Pathogen[ P03383] interacts with 2 human partners:{O94983;P56524}

2596 Pathogen[ P03410] interacts with 3 human partners:{O15273;P56524;O94983}

2597 Pathogen[ P14075] interacts with 2 human partners:{P56524;O94983}

2598 Pathogen[ P0C206] interacts with 2 human partners:{P56524;O94983}

2599 Pathogen[ P03363] interacts with 1 human partners:{O94983}

2600 [Cluster 237]GO:0035413+P biological\_process [name] positive regulation of catenin import into nucleus [def] "Any process that increases the rate, frequency or extent of the directed movement of a catenin protein from the cytoplasm into the nucleus." [GOC

2601 Pathogen[ Q2Q067] interacts with 4 human partners:{Q14678;Q9NYF0;P84022;Q01860}

2602 Pathogen[ P0C214] interacts with 5 human partners:{P84022;Q14678;O95071;Q9NYF0;Q01860}

2603 Pathogen[ P03346] interacts with 5 human partners:{Q14678;Q01860;P84022;Q9NYF0;O95071}

2604 Pathogen[ Q85601] interacts with 5 human partners:{Q9NYF0;Q14678;P84022;O95071;Q01860}

2605 Pathogen[ P14079] interacts with 4 human partners:{Q01860;Q14678;Q13145;Q9NYF0}

2606 Pathogen[ P03383] interacts with 4 human partners:{Q14678;Q01860;P84022;Q9NYF0}

2607 Pathogen[ P03410] interacts with 5 human partners:{P84022;Q01860;Q13145;Q9NYF0;Q14678}

2608 Pathogen[ P14075] interacts with 4 human partners:{Q01860;Q14678;P84022;Q9NYF0}

2609 Pathogen[ P0C206] interacts with 5 human partners:{P84022;Q01860;Q14678;Q9NYF0;O95071}

2610 Pathogen[ P03363] interacts with 5 human partners:{Q9NYF0;P84022;O95071;Q14678;Q01860}

2611 [Cluster 238]GO:0060394+P biological\_process [name] negative regulation of pathway-restricted SMAD protein phosphorylation [def] "Any process that decreases the rate, frequency or extent of pathway-restricted SMAD protein phosphorylation. Pathway-restricted SMAD proteins and common-partner SMAD proteins are involved in the transforming growth factor beta receptor signaling pathways." [GOC

2612 Pathogen[ Q2Q067] interacts with 2 human partners:{O15105;O43541}

2613 Pathogen[ P0C214] interacts with 2 human partners:{O15105;O43541}

2614 Pathogen[ P03346] interacts with 2 human partners:{O15105;O43541}

2615 Pathogen[ Q85601] interacts with 2 human partners:{O43541;O15105}

2616 Pathogen[ P14079] interacts with 2 human partners:{O43541;O15105}

2617 Pathogen[ P03383] interacts with 2 human partners:{O15105;O43541}

2618 Pathogen[ P03410] interacts with 2 human partners:{O43541;O15105}

2619 Pathogen[ P14075] interacts with 2 human partners:{O43541;O15105}

2620 Pathogen[ P0C206] interacts with 2 human partners:{O43541;O15105}

2621 Pathogen[ P03363] interacts with 2 human partners:{O15105;O43541}

2622 [Cluster 239]GO:0030217+P biological\_process [name] T cell differentiation [def] "The process in which a precursor cell type acquires characteristics of a more mature T-cell. A T cell is a type of lymphocyte whose defining characteristic is the expression of a T cell receptor complex." [GO\_REF

2623 Pathogen[ Q2Q067] interacts with 6 human partners:{P55895;Q9HBE1;Q02447;Q9H9Q4;P55347;P18146}

2624 Pathogen[ P0C214] interacts with 6 human partners:{Q9H9Q4;P55347;Q9HBE1;P55895;Q02447;P18146}

2625 Pathogen[ P03346] interacts with 10 human partners:{Q06945;P55895;Q9H165;Q9HBE1;P55347;Q9H9Q4;Q9P2D1;P18146;Q9Y2R2;Q02447}

2626 Pathogen[ Q85601] interacts with 7 human partners:{P18146;Q9P2D1;Q02447;P55347;P55895;Q9H9Q4;Q9HBE1}

2627 Pathogen[ P14079] interacts with 6 human partners:{Q9H9Q4;P55347;P16298;Q02447;Q9P2D1;Q9HBE1}

2628 Pathogen[ P03383] interacts with 6 human partners:{Q9HBE1;Q9H9Q4;P18146;P55347;Q02447;P55895}

2629 Pathogen[ P03410] interacts with 7 human partners:{Q02447;P55895;Q9P2D1;P55347;P18146;Q9H9Q4;Q9HBE1}

2630 Pathogen[ P14075] interacts with 6 human partners:{P18146;P55347;Q9H9Q4;Q02447;P55895;Q9HBE1}

2631 Pathogen[ P0C206] interacts with 10 human partners:{Q9HBE1;Q9P2D1;Q9Y2R2;P18146;Q9H9Q4;Q02447;P55895;Q9H165;Q13422;P55347}

2632 Pathogen[ P03363] interacts with 6 human partners:{P18146;Q9Y2R2;Q02447;P55347;Q9H9Q4;P55895}

2633 [Cluster 240]GO:0009386+P biological\_process [name] translational attenuation [def] "Translational attenuation is a regulatory mechanism analogous to ribosome-mediated transcriptional attenuation. The system requires the presence of a short ORF, called a leader peptide, encoded in the mRNA upstream of the ribosome-binding site and start codon of the gene whose translation is to be regulated. Certain conditions, such as presence of the antibiotic tetracycline in bacteria or amino acid starvation, may cause slowing or stalling of the ribosome translating the leader peptide. The stalled ribosome masks a region of the mRNA and affects which of two alternative mRNA folded structures will form, therefore controlling whether or not a ribosome will bind and initiate translation of the downstream gene. Translational attenuation is analogous to ribosome-mediated transcriptional attenuation, in which mRNA remodeling caused by ribosome stalling regulates transcriptional termination rather than translational initiation." [PMID

2634 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9Y2T7}

2635 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y2T7}

2636 Pathogen[ P03346] interacts with 1 human partners:{Q9Y2T7}

2637 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y2T7}

2638 Pathogen[ P14079] interacts with 1 human partners:{Q9Y2T7}

2639 Pathogen[ P03383] interacts with 1 human partners:{Q9Y2T7}

2640 Pathogen[ P03410] interacts with 1 human partners:{Q9Y2T7}

2641 Pathogen[ P14075] interacts with 1 human partners:{Q9Y2T7}

2642 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y2T7}

2643 Pathogen[ P03363] interacts with 1 human partners:{Q9Y2T7}

2644 [Cluster 241]GO:0090116+P biological\_process [name] C-5 methylation of cytosine [def] "The covalent transfer of a methyl group to C-5 of cytosine in a DNA molecule." [GOC

2645 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9Y6K1;Q9UBC3;P26358}

2646 Pathogen[ P0C214] interacts with 2 human partners:{Q9Y6K1;P26358}

2647 Pathogen[ P03346] interacts with 4 human partners:{Q9Y6K1;Q9UBC3;P26358;O14717}

2648 Pathogen[ Q85601] interacts with 3 human partners:{P26358;Q9Y6K1;Q9UBC3}

2649 Pathogen[ P14079] interacts with 3 human partners:{Q9Y6K1;Q9UBC3;P26358}

2650 Pathogen[ P03383] interacts with 2 human partners:{Q9Y6K1;P26358}

2651 Pathogen[ P03410] interacts with 3 human partners:{P26358;Q9UBC3;Q9Y6K1}

2652 Pathogen[ P14075] interacts with 2 human partners:{Q9Y6K1;P26358}

2653 Pathogen[ P0C206] interacts with 3 human partners:{Q9Y6K1;P26358;Q9UBC3}

2654 Pathogen[ P03363] interacts with 4 human partners:{Q9Y6K1;O14717;P26358;Q9UBC3}

2655 [Cluster 242]GO:0050995+P biological\_process [name] negative regulation of lipid catabolic process [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the chemical reactions and pathways resulting in the breakdown of lipids." [GOC

2656 Pathogen[ Q2Q067] interacts with 1 human partners:{O60543}

2657 Pathogen[ P0C214] interacts with 1 human partners:{O60543}

2658 Pathogen[ P03346] interacts with 1 human partners:{O60543}

2659 Pathogen[ Q85601] interacts with 1 human partners:{O60543}

2660 Pathogen[ P14079] interacts with 1 human partners:{O60543}

2661 Pathogen[ P03383] interacts with 1 human partners:{O60543}

2662 Pathogen[ P03410] interacts with 1 human partners:{O60543}

2663 Pathogen[ P14075] interacts with 1 human partners:{O60543}

2664 Pathogen[ P0C206] interacts with 1 human partners:{O60543}

2665 Pathogen[ P03363] interacts with 1 human partners:{O60543}

2666 [Cluster 243]GO:0051492+P biological\_process [name] regulation of stress fiber assembly [def] "Any process that modulates the frequency, rate or extent of the assembly of a stress fiber, a bundle of microfilaments and other proteins found in fibroblasts." [GOC

2667 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8N3V7}

2668 Pathogen[ P0C214] interacts with 1 human partners:{Q8N3V7}

2669 Pathogen[ P03346] interacts with 1 human partners:{Q8N3V7}

2670 Pathogen[ Q85601] interacts with 1 human partners:{Q8N3V7}



2671 Pathogen[ P14079] interacts with 1 human partners:{Q8N3V7}  
2672 Pathogen[ P03383] interacts with 1 human partners:{Q8N3V7}  
2673 Pathogen[ P03410] interacts with 1 human partners:{Q8N3V7}  
2674 Pathogen[ P14075] interacts with 1 human partners:{Q8N3V7}  
2675 Pathogen[ P0C206] interacts with 1 human partners:{Q8N3V7}  
2676 Pathogen[ P03363] interacts with 1 human partners:{Q8N3V7}  
2677 [Cluster 244]GO:0006782+P biological\_process [name] protoporphyrinogen IX biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of protoporphyrinogen IX." [GOC  
2678 Pathogen[ Q2Q067] interacts with 6 human partners:{P10746;P22557;P13196;P06132;P08397;P48200}  
2679 Pathogen[ P0C214] interacts with 7 human partners:{P06132;P48200;P22557;P13196;P10746;P08397;P36551}  
2680 Pathogen[ P03346] interacts with 5 human partners:{P10746;P22557;P13196;P48200;P06132}  
2681 Pathogen[ Q85601] interacts with 5 human partners:{P10746;P48200;P13196;P06132;P08397}  
2682 Pathogen[ P14079] interacts with 7 human partners:{P13196;P22557;P10746;P06132;P08397;P48200;P36551}  
2683 Pathogen[ P03383] interacts with 3 human partners:{P48200;P06132;P08397}  
2684 Pathogen[ P03410] interacts with 7 human partners:{P08397;P06132;P36551;P10746;P22557;P48200;P13196}  
2685 Pathogen[ P14075] interacts with 3 human partners:{P06132;P08397;P48200}  
2686 Pathogen[ P0C206] interacts with 7 human partners:{P10746;P36551;P48200;P22557;P13196;P08397;P06132}  
2687 Pathogen[ P03363] interacts with 3 human partners:{P06132;P48200;P13196}  
2688 [Cluster 245]GO:0006323+P biological\_process [name] DNA packaging [def] "Any process in which DNA and associated proteins are formed into a compact, orderly structure." [GOC  
2689 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9NR48;O14929;P41227}  
2690 Pathogen[ P0C214] interacts with 3 human partners:{P41227;O14929;Q9NR48}  
2691 Pathogen[ P03346] interacts with 4 human partners:{Q92794;P41227;Q9NR48;O14929}  
2692 Pathogen[ Q85601] interacts with 3 human partners:{Q9NR48;P41227;O14929}  
2693 Pathogen[ P14079] interacts with 2 human partners:{P41227;O14929}  
2694 Pathogen[ P03383] interacts with 2 human partners:{P41227;O14929}  
2695 Pathogen[ P03410] interacts with 3 human partners:{O14929;P41227;P04553}  
2696 Pathogen[ P14075] interacts with 2 human partners:{P41227;O14929}  
2697 Pathogen[ P0C206] interacts with 3 human partners:{P41227;O14929;Q9NR48}  
2698 Pathogen[ P03363] interacts with 3 human partners:{P41227;O14929;Q9NR48}  
2699 [Cluster 246]GO:0000380+P biological\_process [name] alternative nuclear mRNA splicing, via spliceosome [def] "The process of generating multiple mRNA molecules from a given set of exons by differential use of exons from the primary transcript(s) to form multiple mature mRNAs that vary in their exon composition." [GOC  
2700 Pathogen[ Q2Q067] interacts with 4 human partners:{O95391;P52272;Q96IZ7;P23246}  
2701 Pathogen[ P0C214] interacts with 4 human partners:{P23246;Q96IZ7;P52272;O95391}  
2702 Pathogen[ P03346] interacts with 5 human partners:{P09651;O95391;P23246;P52272;Q96IZ7}  
2703 Pathogen[ Q85601] interacts with 3 human partners:{O95391;Q96IZ7;P23246}  
2704 Pathogen[ P14079] interacts with 4 human partners:{Q14004;P23246;Q96IZ7;O95391}  
2705 Pathogen[ P03383] interacts with 3 human partners:{Q96IZ7;P23246;O95391}  
2706 Pathogen[ P03410] interacts with 4 human partners:{P23246;Q96IZ7;P52272;O95391}  
2707 Pathogen[ P14075] interacts with 3 human partners:{P23246;O95391;Q96IZ7}  
2708 Pathogen[ P0C206] interacts with 3 human partners:{P23246;Q96IZ7;O95391}  
2709 Pathogen[ P03363] interacts with 5 human partners:{Q96IZ7;P23246;O95391;P09651;P52272}  
2710 [Cluster 247]GO:0040030+P biological\_process [name] regulation of molecular function, epigenetic [def] "Any heritable epigenetic process that modulates the frequency, rate or extent of protein function by self-perpetuating conformational conversions of normal proteins in healthy cells. This is distinct from, though mechanistically analogous to, disease states associated with prion propagation and amyloidogenesis. A single protein, if it carries a glutamine/asparagine-rich ('prion') domain, can sometimes stably exist in at least two distinct physical states, each associated with a different phenotype\_ propagation of one of these traits is achieved by a self-perpetuating change in the protein from one form to the other, mediated by conformational changes in the glutamine/asparagine-rich domain. Prion domains are both modular and transferable to other proteins, on which they can confer a heritable epigenetic alteration of function\_ existing bioinformatics data indicate that they are rare in non-eukarya, but common in eukarya." [GOC  
2711 Pathogen[ Q2Q067] interacts with 1 human partners:{P49711}  
2712 Pathogen[ P0C214] interacts with 1 human partners:{P49711}  
2713 Pathogen[ P03346] interacts with 1 human partners:{P49711}  
2714 Pathogen[ Q85601] interacts with 1 human partners:{P49711}  
2715 Pathogen[ P14079] interacts with 1 human partners:{P49711}  
2716 Pathogen[ P03383] interacts with 1 human partners:{P49711}  
2717 Pathogen[ P03410] interacts with 1 human partners:{P49711}  
2718 Pathogen[ P14075] interacts with 1 human partners:{P49711}

2719 Pathogen[ P0C206] interacts with 1 human partners:{P49711}  
2720 Pathogen[ P03363] interacts with 1 human partners:{P49711}  
2721 [Cluster 248]GO:0045723+P biological\_process [name] positive regulation of fatty acid biosynthetic process [def] "Any process that activates or increases the frequency, rate or extent of the chemical reactions and pathways resulting in the formation of fatty acids." [GOC  
2722 Pathogen[ Q2Q067] interacts with 3 human partners:{P55055;Q9NP71;Q9NPA3}  
2723 Pathogen[ P0C214] interacts with 2 human partners:{Q9NPA3;Q9NP71}  
2724 Pathogen[ P03346] interacts with 3 human partners:{Q9NP71;P55055;Q9NPA3}  
2725 Pathogen[ Q85601] interacts with 3 human partners:{Q9NP71;P55055;Q9NPA3}  
2726 Pathogen[ P14079] interacts with 3 human partners:{P55055;Q9NPA3;Q9NP71}  
2727 Pathogen[ P03383] interacts with 2 human partners:{Q9NP71;Q9NPA3}  
2728 Pathogen[ P03410] interacts with 2 human partners:{Q9NP71;Q9NPA3}  
2729 Pathogen[ P14075] interacts with 2 human partners:{Q9NP71;Q9NPA3}  
2730 Pathogen[ P0C206] interacts with 3 human partners:{Q9NPA3;Q9NP71;P55055}  
2731 Pathogen[ P03363] interacts with 2 human partners:{Q9NP71;Q9NPA3}  
2732 [Cluster 249]GO:0006997+P biological\_process [name] nucleus organization [def] "A process that is carried out at the cellular level which results in the assembly, arrangement of constituent parts, or disassembly of the nucleus." [GOC  
2733 Pathogen[ Q2Q067] interacts with 4 human partners:{P02545;Q14980;Q8NF91;O15265}  
2734 Pathogen[ P0C214] interacts with 4 human partners:{Q14980;Q8NF91;O15265;P02545}  
2735 Pathogen[ P03346] interacts with 4 human partners:{O15265;P02545;Q14980;Q8NF91}  
2736 Pathogen[ Q85601] interacts with 4 human partners:{P02545;O15265;Q14980;Q8NF91}  
2737 Pathogen[ P14079] interacts with 4 human partners:{Q14980;O15265;Q8NF91;P02545}  
2738 Pathogen[ P03383] interacts with 3 human partners:{P02545;O15265;Q14980}  
2739 Pathogen[ P03410] interacts with 5 human partners:{Q14980;P04553;P02545;O15265;Q8NF91}  
2740 Pathogen[ P14075] interacts with 3 human partners:{O15265;P02545;Q14980}  
2741 Pathogen[ P0C206] interacts with 4 human partners:{O15265;Q8NF91;P02545;Q14980}  
2742 Pathogen[ P03363] interacts with 4 human partners:{Q8NF91;P02545;Q14980;O15265}  
2743 [Cluster 250]GO:0043951+P biological\_process [name] negative regulation of cAMP-mediated signaling [def] "Any process which stops, prevents, or reduces the frequency, rate or extent of cAMP-mediated signaling, a series of molecular signals in which a cell uses cyclic AMP to convert an extracellular signal into a response." [GOC  
2744 Pathogen[ Q2Q067] interacts with 3 human partners:{P49427;P63146;O60291}  
2745 Pathogen[ P0C214] interacts with 3 human partners:{P49427;O60291;P63146}  
2746 Pathogen[ P03346] interacts with 3 human partners:{P49427;P63146;O60291}  
2747 Pathogen[ Q85601] interacts with 3 human partners:{P63146;P49427;O60291}  
2748 Pathogen[ P14079] interacts with 2 human partners:{P49427;P63146}  
2749 Pathogen[ P03383] interacts with 2 human partners:{P49427;P63146}  
2750 Pathogen[ P03410] interacts with 3 human partners:{P49427;P63146;O60291}  
2751 Pathogen[ P14075] interacts with 2 human partners:{P49427;P63146}  
2752 Pathogen[ P0C206] interacts with 3 human partners:{O60291;P49427;P63146}  
2753 Pathogen[ P03363] interacts with 3 human partners:{O60291;P63146;P49427}  
2754 [Cluster 251]GO:0045668+P biological\_process [name] negative regulation of osteoblast differentiation [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of osteoblast differentiation." [GOC  
2755 Pathogen[ Q2Q067] interacts with 14 human partners:{P56524;P41134;P50616;Q9UQL6;Q99966;Q9UGP4;P12755;P84022;O00255;Q8WVJ9;Q8WUI4;Q9H6W3;Q9UMX1;Q00534}  
2756 Pathogen[ P0C214] interacts with 14 human partners:{Q9UGP4;P84022;P56524;Q99966;Q00534;P41134;Q9H6W3;P50616;P12755;Q8WVJ9;Q8WUI4;Q9UMX1;Q9UQL6;O00255}  
2757 Pathogen[ P03346] interacts with 15 human partners:{Q99966;Q9UGP4;Q02535;P56524;P84022;O00255;P41134;P50616;Q8WVJ9;Q8WUI4;Q14596;Q00534;Q9H6W3;Q9UMX1;Q9UQL6}  
2758 Pathogen[ Q85601] interacts with 15 human partners:{P41134;Q9UQL6;Q99966;Q14596;P12755;Q9H6W3;O00255;P50616;P84022;Q9UGP4;P56524;Q00534;Q8WUI4;Q9UMX1;Q8WVJ9}  
2759 Pathogen[ P14079] interacts with 13 human partners:{Q9UQL6;P12755;Q8WUI4;Q9UMX1;Q8WVJ9;Q99966;Q14596;Q9H6W3;P41134;P56524;P50616;O00255;Q9UGP4}  
2760 Pathogen[ P03383] interacts with 11 human partners:{Q8WVJ9;Q9UQL6;Q00534;Q9H6W3;P84022;Q9UGP4;O00255;P50616;P56524;Q8WUI4;Q9UMX1}  
2761 Pathogen[ P03410] interacts with 15 human partners:{P84022;Q9H6W3;Q8WVJ9;Q00534;P12755;Q9UGP4;P41134;Q14596;Q8WUI4;Q9UQL6;P56524;O00255;Q9UMX1;P50616;Q99966}  
2762 Pathogen[ P14075] interacts with 11 human partners:{Q9UGP4;P56524;Q00534;Q8WVJ9;O00255;P50616;Q9H6W3;Q9UQL6;P84022;Q8WUI4;Q9UMX1}  
2763 Pathogen[ P0C206] interacts with 15 human partners:{P84022;Q9UMX1;Q9UGP4;O00255;Q14596;Q8WVJ9;P12755;P41134;P50616;Q8WUI4;Q9H6W3;Q99966;P56524;Q00534;Q9UQL6}  
2764 Pathogen[ P03363] interacts with 9 human partners:{Q9UMX1;Q9UQL6;P50616;Q9UGP4;Q00534;P41134;P84022;Q8WUI4;Q8WVJ9}

2765 [Cluster 252]GO:0043407+P biological\_process [name] negative regulation of MAP kinase activity [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of MAP kinase activity." [GOC

2766 Pathogen[ Q2Q067] interacts with 3 human partners:{P41220;P37198;Q16829}

2767 Pathogen[ P0C214] interacts with 3 human partners:{P41220;P37198;Q16829}

2768 Pathogen[ P03346] interacts with 3 human partners:{P37198;Q16829;P41220}

2769 Pathogen[ Q85601] interacts with 2 human partners:{P41220;Q16829}

2770 Pathogen[ P14079] interacts with 5 human partners:{O43597;Q16829;P41220;P37198;P17405}

2771 Pathogen[ P03383] interacts with 2 human partners:{P41220;P37198}

2772 Pathogen[ P03410] interacts with 4 human partners:{O43597;P41220;Q16829;P17405}

2773 Pathogen[ P14075] interacts with 2 human partners:{P41220;P37198}

2774 Pathogen[ P0C206] interacts with 3 human partners:{Q16829;O43597;P41220}

2775 Pathogen[ P03363] interacts with 4 human partners:{Q16829;P41220;Q9C004;P37198}

2776 [Cluster 253]GO:0016310+P biological\_process [name] phosphorylation [def] "The process of introducing a phosphate group into a molecule, usually with the formation of a phosphoric ester, a phosphoric anhydride or a phosphoric amide." [ISBN

2777 Pathogen[ Q2Q067] interacts with 24 human partners:{P22392;P31749;P19367;P11387;O14757;P32189;Q16851;O75582;Q9UGP4;O96017;P50750;Q13233;P50613;O14920;P45984;O43318;P49336;P21675;P24941;P11802;O15111;Q15759;P51946;Q00534}

2778 Pathogen[ P0C214] interacts with 45 human partners:{Q9UGP4;Q14410;P51946;O15111;Q14409;P23919;Q8TE04;P21675;Q14164;P50750;P50613;P11802;O94921;P12277;Q9Y3D8;P32189;O43318;Q13057;Q96C11;O60825;Q00534;Q13233;P21127;Q00536;P14618;O96017;P49336;Q16851;Q5ZEY9;Q9H0E2;P24941;P19367;P11387;O75582;Q9BZ23;Q15759;P45984;Q9NWZ5;P16118;P22392;O14757;Q5EBM0;O14920;P00558;P31749}

2779 Pathogen[ P03346] interacts with 36 human partners:{P45984;Q00536;O15111;Q9UGP4;O96017;P21127;P49336;P24941;P19367;O14757;Q86Z02;Q9H0E2;P11802;Q16851;P31749;Q8TD19;P51946;P50750;Q9Y3D8;Q13233;O75582;P22392;P21675;Q15759;Q96PY6;P45985;P32189;Q00534;O14920;O94921;O43318;O14965;Q14164;Q9NWZ5;P11387;O00444}

2780 Pathogen[ Q85601] interacts with 35 human partners:{P51946;Q00536;P31749;O96017;P50750;Q96PY6;O15111;P49336;O60825;P32189;P16118;P11802;O14757;P11387;O14965;Q16851;Q14164;P14618;O14920;O94921;O75582;P22392;P50613;Q9UGP4;Q15759;P45984;P21675;P21127;Q13233;Q00534;O43318;P24941;P51955;Q5ZEY9;P19367}

2781 Pathogen[ P14079] interacts with 42 human partners:{P31751;Q8TE04;Q14004;O95544;Q5EBM0;Q16851;P53779;P49336;P51946;P52564;Q9UJ70;P49842;O75582;Q14410;Q96DU7;Q4G0N4;Q14164;Q9NWZ5;P32189;Q96C11;Q14409;P45984;A2RU49;P45983;P50613;P23919;P51955;Q9BZ23;P22392;Q16644;Q8IVS8;Q15759;P45985;Q13057;P21127;Q13164;Q9H0E2;O14965;Q9UGP4;Q9H999;P21675;P50750}

2782 Pathogen[ P03383] interacts with 35 human partners:{Q9NVV4;O14757;O75582;Q13233;Q8TD19;Q9NWZ5;O14920;P19367;P31749;O15111;P22392;Q00536;P11387;Q00534;P11802;O43318;P21127;Q16851;P49336;P50613;P51946;P24941;Q9UGP4;P50750;Q5ZEY9;Q15759;O94921;Q9BZ23;O14965;Q96PY6;P21675;P32189;P45984;Q5EBM0;O96017}

2783 Pathogen[ P03410] interacts with 40 human partners:{Q8IVS8;Q4G0N4;Q96DU7;O14920;Q16851;Q8TE04;Q00534;Q96C11;Q13057;P16118;P21675;O15111;Q9UGP4;O75582;Q14410;P51946;Q9NWZ5;P31749;Q5ZEY9;A2RU49;Q13233;P50613;P23919;O14965;P50750;O43318;P45985;P24941;P11802;P11387;Q9H0E2;O96017;Q5EBM0;O14757;Q9BZ23;P49336;Q14409;P45984;P53779;P32189}

2784 Pathogen[ P14075] interacts with 40 human partners:{P11387;P49336;O15111;P21675;P24941;P11802;Q9NWZ5;Q15759;O75582;Q8IVS8;P32189;P50613;Q9UGP4;Q00534;P50750;P19367;Q13057;O14920;P16118;P31749;O96017;O14965;Q8TE04;Q96C11;O43318;P49842;P21127;Q9BZ23;P51946;Q96PY6;Q13233;O94921;Q9UQ88;Q5EBM0;Q9NVV4;Q16851;O14757;P22392;P45984;Q8TD19}

2785 Pathogen[ P0C206] interacts with 51 human partners:{Q16851;P49336;O14920;P31749;Q9Y3D8;P50750;O96017;P22392;P51955;Q9UGP4;O75582;P45984;Q8TE04;Q13057;Q00536;Q5EBM0;O43318;Q96PY6;O00444;Q9NWZ5;Q9BZ23;Q8TD19;P19367;P32189;Q13233;Q5ZEY9;Q96DU7;P30291;Q9H0E2;Q14164;P50613;O15111;P45985;O60825;Q96C11;P16118;P21127;P11387;O14965;Q8IVS8;P24941;Q15759;P11802;O94921;Q99640;P14618;Q9986;Q9UIG0;P21675;P51946;Q00534}

2786 Pathogen[ P03363] interacts with 23 human partners:{Q9NWZ5;O14920;Q16851;P21127;P11387;O15111;P51946;O43318;P24941;Q8IVS8;O96017;Q9UGP4;Q00534;P31749;Q9Y3D8;P49336;Q9H0E2;P21675;P50750;P11802;Q00536;Q13233;O14757}

2787 [Cluster 254]GO:0000338+P biological\_process [name] protein deneddylation [def] "The removal of a ubiquitin-like protein of the NEDD8 type from a protein." [GOC

2788 Pathogen[ Q2Q067] interacts with 1 human partners:{Q92905}

2789 Pathogen[ P0C214] interacts with 1 human partners:{Q92905}

2790 Pathogen[ P03346] interacts with 1 human partners:{Q92905}

2791 Pathogen[ Q85601] interacts with 1 human partners:{Q92905}

2792 Pathogen[ P14079] interacts with 1 human partners:{Q92905}

2793 Pathogen[ P03383] interacts with 1 human partners:{Q92905}

2794 Pathogen[ P03410] interacts with 1 human partners:{Q92905}

2795 Pathogen[ P14075] interacts with 1 human partners:{Q92905}

2796 Pathogen[ P0C206] interacts with 1 human partners:{Q92905}  
2797 Pathogen[ P03363] interacts with 1 human partners:{Q92905}  
2798 [Cluster 255]GO:0010994+P biological\_process [name] free ubiquitin chain  
polymerization [def] "The process of creating free ubiquitin chains, compounds composed  
of a large number of ubiquitin monomers. These chains are not conjugated to a protein."  
[GOC  
2799 Pathogen[ Q2Q067] interacts with 1 human partners:{000762}  
2800 Pathogen[ P0C214] interacts with 2 human partners:{Q16763;000762}  
2801 Pathogen[ P03346] interacts with 1 human partners:{000762}  
2802 Pathogen[ Q85601] interacts with 2 human partners:{Q16763;000762}  
2803 Pathogen[ P14079] interacts with 1 human partners:{000762}  
2804 Pathogen[ P03383] interacts with 1 human partners:{000762}  
2805 Pathogen[ P03410] interacts with 1 human partners:{000762}  
2806 Pathogen[ P14075] interacts with 1 human partners:{000762}  
2807 Pathogen[ P0C206] interacts with 2 human partners:{Q16763;000762}  
2808 Pathogen[ P03363] interacts with 1 human partners:{000762}  
2809 [Cluster 256]GO:0010941+P biological\_process [name] regulation of cell death [def]  
"Any process that modulates the rate or frequency of cell death. Cell death is the  
specific activation or halting of processes within a cell so that its vital functions  
markedly cease, rather than simply deteriorating gradually over time, which culminates  
in cell death." [GOC  
2810 Pathogen[ Q2Q067] interacts with 1 human partners:{Q6NUN9}  
2811 Pathogen[ P0C214] interacts with 1 human partners:{Q6NUN9}  
2812 Pathogen[ P03346] interacts with 1 human partners:{Q6NUN9}  
2813 Pathogen[ Q85601] interacts with 1 human partners:{Q6NUN9}  
2814 Pathogen[ P14079] interacts with 2 human partners:{Q6NUN9;Q8NC60}  
2815 Pathogen[ P03383] interacts with 1 human partners:{Q6NUN9}  
2816 Pathogen[ P03410] interacts with 2 human partners:{Q8NC60;Q6NUN9}  
2817 Pathogen[ P14075] interacts with 1 human partners:{Q6NUN9}  
2818 Pathogen[ P0C206] interacts with 2 human partners:{Q6NUN9;Q9UK53}  
2819 Pathogen[ P03363] interacts with 1 human partners:{Q6NUN9}  
2820 [Cluster 257]GO:0009967+P biological\_process [name] positive regulation of signal  
transduction [def] "Any process that activates or increases the frequency, rate or  
extent of signal transduction." [GOC  
2821 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9BY44;Q9NXV6}  
2822 Pathogen[ P0C214] interacts with 2 human partners:{Q9BY44;Q9NXV6}  
2823 Pathogen[ P03346] interacts with 3 human partners:{Q9NXV6;Q5T2T1;Q9BY44}  
2824 Pathogen[ Q85601] interacts with 2 human partners:{Q9BY44;Q9NXV6}  
2825 Pathogen[ P14079] interacts with 4 human partners:{P31751;Q9BY44;Q5T2T1;Q9NXV6}  
2826 Pathogen[ P03383] interacts with 2 human partners:{Q9BY44;Q9NXV6}  
2827 Pathogen[ P03410] interacts with 3 human partners:{Q9NXV6;Q5T2T1;Q9BY44}  
2828 Pathogen[ P14075] interacts with 2 human partners:{Q9NXV6;Q9BY44}  
2829 Pathogen[ P0C206] interacts with 3 human partners:{Q9NXV6;Q5T2T1;Q9BY44}  
2830 Pathogen[ P03363] interacts with 3 human partners:{Q9BY44;Q5T2T1;Q9NXV6}  
2831 [Cluster 258]GO:0006911+P biological\_process [name] phagocytosis, engulfment [def]  
"The internalization of bacteria, immune complexes and other particulate matter or of an  
apoptotic cell by phagocytosis, including the membrane and cytoskeletal processes  
required, which involves one of three mechanisms  
2832 Pathogen[ Q2Q067] interacts with 2 human partners:{P63000;Q92556}  
2833 Pathogen[ P0C214] interacts with 2 human partners:{P63000;Q92556}  
2834 Pathogen[ P03346] interacts with 2 human partners:{Q92556;P63000}  
2835 Pathogen[ Q85601] interacts with 1 human partners:{P63000}  
2836 Pathogen[ P14079] interacts with 1 human partners:{Q92556}  
2837 Pathogen[ P03383] interacts with 1 human partners:{P63000}  
2838 Pathogen[ P03410] interacts with 2 human partners:{P63000;Q92556}  
2839 Pathogen[ P14075] interacts with 1 human partners:{P63000}  
2840 Pathogen[ P0C206] interacts with 2 human partners:{Q92556;P63000}  
2841 Pathogen[ P03363] interacts with 2 human partners:{P63000;Q92556}  
2842 [Cluster 259]GO:0048169+P biological\_process [name] regulation of long-term neuronal  
synaptic plasticity [def] "A process that modulates long-term neuronal synaptic  
plasticity, the ability of neuronal synapses to change long-term as circumstances  
require. Long-term neuronal synaptic plasticity generally involves increase or decrease  
in actual synapse numbers." [GOC  
2843 Pathogen[ Q2Q067] interacts with 2 human partners:{P78352;P18146}  
2844 Pathogen[ P0C214] interacts with 2 human partners:{P78352;P18146}  
2845 Pathogen[ P03346] interacts with 2 human partners:{P78352;P18146}  
2846 Pathogen[ Q85601] interacts with 2 human partners:{P18146;P78352}  
2847 Pathogen[ P14079] interacts with 1 human partners:{O43759}  
2848 Pathogen[ P03383] interacts with 2 human partners:{P18146;P78352}  
2849 Pathogen[ P03410] interacts with 3 human partners:{O43759;P18146;P78352}  
2850 Pathogen[ P14075] interacts with 2 human partners:{P18146;P78352}  
2851 Pathogen[ P0C206] interacts with 3 human partners:{P78352;O43759;P18146}  
2852 Pathogen[ P03363] interacts with 2 human partners:{P18146;P78352}  
2853 [Cluster 260]GO:0051222+P biological\_process [name] positive regulation of protein  
transport [def] "Any process that activates or increases the frequency, rate or extent  
of the directed movement of a protein into, out of or within a cell, or between cells,

by means of some agent such as a transporter or pore." [GOC

2854 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8IUR6}

2855 Pathogen[ POC214] interacts with 1 human partners:{Q8IUR6}

2856 Pathogen[ P03346] interacts with 1 human partners:{Q8IUR6}

2857 Pathogen[ Q85601] interacts with 1 human partners:{Q8IUR6}

2858 Pathogen[ P14079] interacts with 1 human partners:{Q8IUR6}

2859 Pathogen[ P03383] interacts with 1 human partners:{Q8IUR6}

2860 Pathogen[ P03410] interacts with 1 human partners:{Q8IUR6}

2861 Pathogen[ P14075] interacts with 1 human partners:{Q8IUR6}

2862 Pathogen[ POC206] interacts with 1 human partners:{Q8IUR6}

2863 Pathogen[ P03363] interacts with 1 human partners:{Q8IUR6}

2864 [Cluster 261]GO:0033540+P biological\_process [name] fatty acid beta-oxidation using acyl-CoA oxidase [def] "A fatty acid beta-oxidation pathway in which the initial step, which converts an acyl-CoA to a trans-2-enoyl-CoA, is catalyzed by acyl-CoA oxidase\_ the electrons removed by oxidation pass directly to oxygen and produce hydrogen peroxide, which is cleaved by peroxisomal catalases. Fatty acid beta-oxidation begins with the addition of coenzyme A to a fatty acid, and ends when only two or three carbons remain (as acetyl-CoA or propionyl-CoA respectively)." [GOC

2865 Pathogen[ Q2Q067] interacts with 1 human partners:{O14734}

2866 Pathogen[ POC214] interacts with 1 human partners:{O14734}

2867 Pathogen[ P03346] interacts with 1 human partners:{O14734}

2868 Pathogen[ Q85601] interacts with 1 human partners:{O14734}

2869 Pathogen[ P14079] interacts with 1 human partners:{O14734}

2870 Pathogen[ P03383] interacts with 1 human partners:{O14734}

2871 Pathogen[ P03410] interacts with 1 human partners:{O14734}

2872 Pathogen[ P14075] interacts with 1 human partners:{O14734}

2873 Pathogen[ POC206] interacts with 1 human partners:{O14734}

2874 Pathogen[ P03363] interacts with 1 human partners:{O14734}

2875 [Cluster 262]GO:0030522+P biological\_process [name] intracellular receptor mediated signaling pathway [def] "Any series of molecular signals initiated by a ligand binding to an receptor located within a cell." [GOC

2876 Pathogen[ Q2Q067] interacts with 8 human partners:{P27540;P10827;P40763;P10589;P35869;P55055;P11474;P22736}

2877 Pathogen[ POC214] interacts with 4 human partners:{P35869;P11474;P40763;P27540}

2878 Pathogen[ P03346] interacts with 17 human partners:{P10827;P06401;Q9H6Q3;P10588;P27540;P51843;P22736;O95718;O75469;P11474;P35869;O00482;P40763;P35398;Q13285;P55055;P10589}

2879 Pathogen[ Q85601] interacts with 10 human partners:{P40763;P27540;P55055;Q9H6Q3;P22736;P11474;P10827;O00482;P35869;P10589}

2880 Pathogen[ P14079] interacts with 14 human partners:{P55055;P35869;P35398;P11474;P22736;P10827;O95718;O00482;O75469;P27540;Q9H6Q3;P10588;Q8WWB7;P10589}

2881 Pathogen[ P03383] interacts with 3 human partners:{P27540;P11474;P35869}

2882 Pathogen[ P03410] interacts with 7 human partners:{P27540;P22736;Q8WWB7;P11474;P10589;P40763;Q9H6Q3}

2883 Pathogen[ P14075] interacts with 3 human partners:{P35869;P11474;P27540}

2884 Pathogen[ POC206] interacts with 16 human partners:{P10588;P35398;P06401;Q9H6Q3;P35869;O75469;P55055;P22736;O00482;P10589;O95718;Q8WWB7;P40763;P27540;P11474;P10827}

2885 Pathogen[ P03363] interacts with 8 human partners:{P27540;P11474;Q9H6Q3;P35869;P10588;P35398;P10589;O00482}

2886 [Cluster 263]GO:2000138+P biological\_process [name] positive regulation of cell proliferation involved in heart morphogenesis [def] "Any process that activates or increases the frequency, rate or extent of cell proliferation involved in heart morphogenesis." [GOC

2887 Pathogen[ Q2Q067] interacts with 1 human partners:{Q06330}

2888 Pathogen[ POC214] interacts with 1 human partners:{Q06330}

2889 Pathogen[ P03346] interacts with 1 human partners:{Q06330}

2890 Pathogen[ Q85601] interacts with 1 human partners:{Q06330}

2891 Pathogen[ P14079] interacts with 1 human partners:{Q06330}

2892 Pathogen[ P03383] interacts with 1 human partners:{Q06330}

2893 Pathogen[ P03410] interacts with 1 human partners:{Q06330}

2894 Pathogen[ P14075] interacts with 1 human partners:{Q06330}

2895 Pathogen[ POC206] interacts with 1 human partners:{Q06330}

2896 Pathogen[ P03363] interacts with 1 human partners:{Q06330}

2897 [Cluster 264]GO:0060271+P biological\_process [name] cilium morphogenesis [def] "A process that is carried out at the cellular level and in which the structure of a cilium is organized." [GOC

2898 Pathogen[ Q2Q067] interacts with 9 human partners:{Q9BVV6;Q9NXB0;P06396;Q9GZV5;O15078;Q9NVD7;O75665;A6NIH7;Q96GV9}

2899 Pathogen[ POC214] interacts with 8 human partners:{O15078;Q96GV9;Q9GZV5;P06396;Q9NXB0;O75665;A6NIH7;Q9NVD7}

2900 Pathogen[ P03346] interacts with 14 human partners:{Q9GZV5;Q96GV9;Q9H3S7;Q9HBG6;Q9NXB0;O75665;Q8N157;Q9NVD7;P36405;A6NIH7;P06396;O15078;Q96FT9;Q9BVV6}

2901 Pathogen[ Q85601] interacts with 9 human

2902 partners: {Q9NVD7;P06396;P36405;Q9GZV5;O15078;Q9NXB0;O75665;A6NIH7;Q96GV9}  
Pathogen[ P14079] interacts with 21 human

2903 partners: {Q9P0N5;O95876;Q9GZV5;A6NIH7;Q96GX1;Q8N157;O95922;Q9BVV6;Q8IWZ6;P36405;Q9UP  
M9;P61158;Q9NZ20;O75366;O15078;Q9P2K1;O75665;Q9NVD7;Q96FT9;Q9NXB0;Q96GV9}

2904 Pathogen[ P03383] interacts with 8 human  
partners: {Q9BVV6;Q9NXB0;O15078;A6NIH7;O75665;Q9GZV5;Q96GV9;P06396}

2905 Pathogen[ P03410] interacts with 21 human  
partners: {O75665;Q96FT9;P06396;P36405;Q9BVV6;A6NIH7;Q9GZV5;Q96GX1;Q8N157;Q9P0N5;O150  
78;Q9P2K1;Q9UPM9;O95876;Q9NZ20;Q9HBG6;O95922;Q96GV9;Q9NVD7;Q9NXB0;Q8IWZ6}

2906 Pathogen[ P14075] interacts with 8 human  
partners: {Q9GZV5;Q96GV9;Q9BVV6;Q9NXB0;O15078;P06396;A6NIH7;O75665}

2907 Pathogen[ P0C206] interacts with 17 human  
partners: {P06396;Q9UPM9;Q9BVV6;Q9NVD7;Q9P2K1;Q96GV9;Q9GZV5;O95922;O15078;Q8N157;O756  
65;P36405;A6NIH7;Q16181;Q9NXB0;Q96FT9;O95876}

2908 Pathogen[ P03363] interacts with 15 human  
partners: {Q9H3S7;O15078;Q9P2K1;O95922;P06396;Q8N157;Q9GZV5;Q9BVV6;Q9HBG6;A6NIH7;Q96G  
V9;Q96FT9;Q9NVD7;Q9NXB0;O75665}

2908 [Cluster 265]GO:0060347+P biological\_process [name] heart trabecula formation  
[def] "The process of creating a trabecula in the heart. A trabecula is a tissue element  
in the form of a small beam, strut or rod." [GOC

2909 Pathogen[ Q2Q067] interacts with 5 human  
partners: {Q14192;P11831;Q9Y5J3;Q9GZT9;Q9HBD4}

2910 Pathogen[ P0C214] interacts with 5 human  
partners: {Q9HBD4;Q9Y5J3;P11831;Q9GZT9;Q14192}

2911 Pathogen[ P03346] interacts with 5 human  
partners: {Q9HBD4;P11831;Q9Y5J3;Q14192;Q9GZT9}

2912 Pathogen[ Q85601] interacts with 5 human  
partners: {P11831;Q9GZT9;Q14192;Q9HBD4;Q9Y5J3}

2913 Pathogen[ P14079] interacts with 3 human partners: {Q9GZT9;Q14192;Q9Y5J3}

2914 Pathogen[ P03383] interacts with 3 human partners: {P11831;Q9HBD4;Q14192}

2915 Pathogen[ P03410] interacts with 5 human  
partners: {Q9Y5J3;P11831;Q9GZT9;Q9HBD4;Q14192}

2916 Pathogen[ P14075] interacts with 4 human partners: {Q9GZT9;Q9HBD4;P11831;Q14192}

2917 Pathogen[ P0C206] interacts with 5 human  
partners: {Q9GZT9;Q9Y5J3;P11831;Q9HBD4;Q14192}

2918 Pathogen[ P03363] interacts with 4 human partners: {Q9Y5J3;P11831;Q9HBD4;Q14192}

2919 [Cluster 266]GO:0043069+P biological\_process [name] negative regulation of programmed  
cell death [def] "Any process that stops, prevents, or reduces the frequency, rate or  
extent of programmed cell death, cell death resulting from activation of endogenous  
cellular processes." [GOC

2920 Pathogen[ Q2Q067] interacts with 4 human partners: {Q96C86;Q63ZY3;P37198;Q03112}

2921 Pathogen[ P0C214] interacts with 4 human partners: {Q96C86;Q03112;P37198;Q63ZY3}

2922 Pathogen[ P03346] interacts with 4 human partners: {Q96C86;P37198;Q03112;Q63ZY3}

2923 Pathogen[ Q85601] interacts with 3 human partners: {Q03112;Q96C86;Q63ZY3}

2924 Pathogen[ P14079] interacts with 4 human partners: {Q24JP5;Q96C86;P37198;Q63ZY3}

2925 Pathogen[ P03383] interacts with 4 human partners: {Q03112;Q96C86;Q63ZY3;P37198}

2926 Pathogen[ P03410] interacts with 4 human partners: {Q03112;Q24JP5;Q96C86;Q63ZY3}

2927 Pathogen[ P14075] interacts with 4 human partners: {Q63ZY3;P37198;Q03112;Q96C86}

2928 Pathogen[ P0C206] interacts with 3 human partners: {Q96C86;Q03112;Q63ZY3}

2929 Pathogen[ P03363] interacts with 4 human partners: {Q63ZY3;Q03112;P37198;Q96C86}

2930 [Cluster 267]GO:0070979+P biological\_process [name] protein K11-linked ubiquitination  
[def] "A protein ubiquitination process in which ubiquitin monomers are attached to a  
protein, and then ubiquitin polymers are formed by linkages between lysine residues at  
position 11 of the ubiquitin monomers. K11-linked polyubiquitination targets the  
substrate protein for degradation. The anaphase-promoting complex promotes the  
degradation of mitotic regulators by assembling K11-linked polyubiquitin chains." [GOC

2931 Pathogen[ Q2Q067] interacts with 22 human  
partners: {Q9UJX3;Q9UJX5;O00762;Q9Y2X8;Q9NYG5;Q9H1A4;P61077;Q9UJX2;P63146;P78317;Q9UM  
13;Q9NPD8;Q8NHZ8;Q9UM11;Q9UJX4;P49459;P62256;P68036;Q9UJX6;P30260;Q13042;Q9BS18}

2932 Pathogen[ P0C214] interacts with 25 human  
partners: {Q96B02;Q9UJX6;Q16763;Q9BS18;O00762;Q9UJX5;P49459;Q969T4;Q9UJX2;P78317;P610  
77;Q9H1A4;Q9Y2X8;Q8NHZ8;Q9UJX4;Q9UJX3;P62256;Q9UM11;P30260;Q9NPD8;Q96LR5;Q9NYG5;Q9UM  
13;P63146;Q13042}

2933 Pathogen[ P03346] interacts with 22 human  
partners: {P68036;Q9UM11;Q9BS18;Q9UM13;Q9NYG5;P49459;Q9Y2X8;P61077;Q9UJX6;Q13042;Q9UJ  
X5;P63146;O00762;Q9UJX2;Q9UJX3;Q8NHZ8;Q9NPD8;P78317;Q9H1A4;Q9UJX4;P62256;P30260}

2934 Pathogen[ Q85601] interacts with 26 human  
partners: {Q9UJX2;P78317;Q9UJX6;Q16763;P63146;Q9Y2X8;Q9BS18;Q8NHZ8;Q9H1A4;Q969T4;Q96B  
02;Q9NPD8;Q96LR5;P68036;P61077;Q13042;Q9UJX5;Q9UM13;Q9NYG5;O00762;Q9UJX3;P49459;Q9UJ  
X4;Q9UM11;P62256;P30260}

2935 Pathogen[ P14079] interacts with 21 human  
partners: {P68036;Q9UJX3;Q9H1A4;Q9NPD8;Q9UJX5;P61077;Q9NYG5;P62256;Q8NHZ8;Q9UM11;Q9UM  
13;Q13042;P49459;Q9UJX6;Q9Y2X8;P30260;P78317;O00762;P63146;Q9UJX4;Q9BS18}

2936 Pathogen[ P03383] interacts with 22 human  
partners: {Q8NHZ8;Q9NYG5;Q9UJX6;Q9Y2X8;O00762;P78317;Q9H1A4;Q13042;P61077;Q9UM13;Q9UM  
11;Q9BS18;Q9UJX4;P68036;Q9UJX5;P49459;Q9NPD8;P62256;P63146;Q9UJX2;P30260;Q9UJX3}

2937 Pathogen[ P03410] interacts with 21 human partners: {Q9BS18;Q9H1A4;Q9UJX4;Q9NYG5;Q9UM13;Q8NHZ8;P49459;P68036;Q9UM11;Q13042;P62256;P78317;P63146;Q9Y2X8;Q9UJX5;P30260;Q9UJX3;Q9NPD8;O00762;Q9UJX6;P61077}

2938 Pathogen[ P14075] interacts with 22 human partners: {Q9BS18;Q13042;P68036;Q9UM11;P49459;Q9Y2X8;Q9UJX2;P61077;Q9UJX6;Q9NPD8;Q8NHZ8;O00762;Q9UJX5;P78317;Q9UJX4;Q9H1A4;P62256;P63146;Q9UM13;P30260;Q9UJX3;Q9NYG5}

2939 Pathogen[ P0C206] interacts with 26 human partners: {Q16763;Q9Y2X8;Q9NPD8;Q9UJX3;P68036;Q9UJX5;Q9UJX2;Q96LR5;P78317;P30260;Q9BS18;Q9H1A4;Q9NYG5;Q9UJX4;P49459;P62256;Q9UM11;Q969T4;O00762;Q9UJX6;P61077;Q9UM13;Q96B02;Q13042;Q8NHZ8;P63146}

2940 Pathogen[ P03363] interacts with 23 human partners: {Q9UJX2;Q9NYG5;Q13042;P49459;O00762;P78317;Q8NHZ8;Q9UJX3;P63146;Q9UJX5;P30260;Q9UJX6;Q9UM11;Q9BS18;Q9UJX4;Q9H1A4;P62256;Q969T4;Q9UM13;Q9NPD8;P61077;Q9Y2X8;P68036}

2941 [Cluster 268]GO:0009629+P biological\_process [name] response to gravity [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a gravitational stimulus." [GOC

2942 Pathogen[ Q2Q067] interacts with 2 human partners: {P01100;P15407}

2943 Pathogen[ P0C214] interacts with 3 human partners: {P15407;P01100;P14618}

2944 Pathogen[ P03346] interacts with 2 human partners: {P15407;P01100}

2945 Pathogen[ Q85601] interacts with 3 human partners: {P15407;P01100;P14618}

2946 Pathogen[ P14079] interacts with 2 human partners: {P15407;P01100}

2947 Pathogen[ P03383] interacts with 2 human partners: {P15407;P01100}

2948 Pathogen[ P03410] interacts with 2 human partners: {P01100;P15407}

2949 Pathogen[ P14075] interacts with 2 human partners: {P01100;P15407}

2950 Pathogen[ P0C206] interacts with 3 human partners: {P15407;P01100;P14618}

2951 Pathogen[ P03363] interacts with 2 human partners: {P15407;P01100}

2952 [Cluster 269]GO:0006887+P biological\_process [name] exocytosis [def] "A process of secretion by a cell that results in the release of intracellular molecules (e.g. hormones, matrix proteins) contained within a membrane-bounded vesicle by fusion of the vesicle with the plasma membrane of a cell. This is the process in which most molecules are secreted from eukaryotic cells." [GOC

2953 Pathogen[ Q2Q067] interacts with 17 human partners: {Q9Y6D6;O95295;Q12765;Q6P1M3;P40222;Q9HCH5;O14910;Q96KP1;O95721;O60645;O00471;Q8TAC9;O00161;Q15833;Q9UPT5;Q8IYI6;Q9NUP9}

2954 Pathogen[ P0C214] interacts with 18 human partners: {Q15833;O14910;P16157;Q9UPT5;O95295;Q8TAC9;Q6P1M3;Q9HCH5;O95721;P35580;Q00536;Q12765;Q9Y6D6;O60645;P40222;Q8IYI6;O00161;O00471}

2955 Pathogen[ P03346] interacts with 29 human partners: {Q8IYI6;Q15833;Q00536;Q9UPT5;O00471;Q96A65;O95295;Q6P1M3;Q9Y6D5;Q9HCH5;P16157;Q8IYJ3;Q8TDW5;Q9Y6D6;O00161;Q8TAC9;Q9NUP9;O95721;Q9HAP6;Q5JRA6;Q969F2;Q12765;Q70J99;Q9C0H9;P40222;Q9ULU8;O60645;O14910;Q96KP1}

2956 Pathogen[ Q85601] interacts with 21 human partners: {Q8IYI6;Q00536;Q9UPT5;P16157;Q9NUP9;O14910;O00471;Q96A65;Q15833;O95295;Q8TAC9;Q6P1M3;Q9HCH5;P40222;Q12765;Q9Y6D6;P35580;Q96KP1;O00161;O60645;O95721}

2957 Pathogen[ P14079] interacts with 32 human partners: {O14810;Q86VI1;P40222;Q8TAG9;Q8IYJ3;O00471;Q9Y6D5;Q9ULU8;Q9HCH5;O60645;P16157;Q9UPT5;Q9C0H9;Q96KP1;Q9NUP9;O95721;Q6PUV4;Q15833;Q8TAC9;Q9Y6D6;Q5JRA6;Q9HAP6;Q9NV70;O95295;Q12765;Q8WVH0;Q96A65;Q8IYI6;Q7Z7G2;Q9Y2D4;Q6P1M3;Q0VAF6}

2958 Pathogen[ P03383] interacts with 17 human partners: {O95295;Q8TAC9;Q6P1M3;Q00536;Q9HCH5;Q8IYI6;Q9Y6D6;Q96KP1;O00471;Q12765;P40222;P35580;O60645;O00161;Q9UPT5;Q9C0H9;O14910}

2959 Pathogen[ P03410] interacts with 39 human partners: {Q9HCH5;Q969F2;O14910;Q15833;Q9UPT5;Q8TAC9;Q8TDW5;P16157;Q70J99;Q12765;O14810;O60645;Q6P1M3;Q9NUP9;Q8WVH0;Q9HAP6;O95295;Q0VAF6;Q7Z7G2;Q8TAG9;Q96A65;Q9Y6D6;Q8IYJ3;Q9ULU8;Q9Y6D5;Q6PUV4;P35580;Q96KP1;Q9Y2D4;Q9NV70;Q86VI1;Q9C0H9;P40222;O95721;O00471;O00161;Q9BRK5;Q8IYI6;Q5JRA6}

2960 Pathogen[ P14075] interacts with 15 human partners: {O60645;O95295;P40222;Q96KP1;Q6P1M3;Q9HCH5;Q9Y6D6;O00471;O14910;O00161;Q8TAC9;Q8IYI6;Q9C0H9;Q12765;Q9UPT5}

2961 Pathogen[ P0C206] interacts with 32 human partners: {O60645;Q9NUP9;Q969F2;O95721;Q9Y6D6;Q00536;Q96KP1;Q5JRA6;Q96A65;O00161;Q8IYJ3;P16157;Q9ULU8;Q7Z7G2;Q9Y6D5;Q9UPT5;Q86VI1;Q6PUV4;P40222;O14910;O95295;Q12765;Q9C0H9;Q8IYI6;Q9NV70;Q9HCH5;Q8TAC9;P35580;Q15833;Q6P1M3;O00471;Q8TAG9}

2962 Pathogen[ P03363] interacts with 20 human partners: {O60645;P16157;Q8IYI6;O00471;Q96A65;O14910;P40222;Q6P1M3;O95721;Q96KP1;O95295;Q12765;Q9HCH5;O00161;Q9Y6D6;Q9NUP9;Q00536;Q9UPT5;Q15833;Q9C0H9}

2963 [Cluster 270]GO:0061015+P biological\_process [name] snRNA import into nucleus [def] "The directed movement of snRNA, small nuclear ribonucleic acid into the nucleus." [GOC

2964 Pathogen[ Q2Q067] interacts with 1 human partners: {O95149}

2965 Pathogen[ P0C214] interacts with 1 human partners: {O95149}

2966 Pathogen[ P03346] interacts with 1 human partners: {O95149}

2967 Pathogen[ Q85601] interacts with 1 human partners: {O95149}

2968 Pathogen[ P14079] interacts with 1 human partners: {O95149}

2969 Pathogen[ P03383] interacts with 1 human partners:{095149}

2970 Pathogen[ P03410] interacts with 1 human partners:{095149}

2971 Pathogen[ P14075] interacts with 1 human partners:{095149}

2972 Pathogen[ P0C206] interacts with 1 human partners:{095149}

2973 Pathogen[ P03363] interacts with 1 human partners:{095149}

2974 [Cluster 271]GO:0009060+P biological\_process [name] aerobic respiration [def] "The enzymatic release of energy from organic compounds (especially carbohydrates and fats) which requires oxygen as the terminal electron acceptor." [GOC

2975 Pathogen[ Q2Q067] interacts with 4 human partners:{Q9NTG7;P21912;Q6P444;P78537}

2976 Pathogen[ P0C214] interacts with 8 human partners:{P22695;Q99643;P78537;Q9NTG7;Q6P444;P21912;Q16798;P30566}

2977 Pathogen[ P03346] interacts with 4 human partners:{Q6P444;P21912;P78537;Q9NTG7}

2978 Pathogen[ Q85601] interacts with 3 human partners:{P21912;P78537;Q9NTG7}

2979 Pathogen[ P14079] interacts with 12 human partners:{P22695;Q12887;Q6P444;P00395;Q15070;P14927;Q15526;P07919;Q9NTG7;P78537;Q15390;P21912}

2980 Pathogen[ P03383] interacts with 3 human partners:{P78537;Q9NTG7;Q6P444}

2981 Pathogen[ P03410] interacts with 12 human partners:{P78537;Q9NTG7;Q15390;Q6P444;P07919;P22695;P14927;P30566;P21912;Q99643;Q15070;Q12887}

2982 Pathogen[ P14075] interacts with 5 human partners:{P78537;Q15070;Q6P444;Q15390;Q9NTG7}

2983 Pathogen[ P0C206] interacts with 7 human partners:{P78537;Q6P444;P22695;Q15070;Q15390;Q9NTG7;P21912}

2984 Pathogen[ P03363] interacts with 2 human partners:{P78537;Q9NTG7}

2985 [Cluster 272]GO:0006695+P biological\_process [name] cholesterol biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of cholesterol, cholest-5-en-3 beta-ol, the principal sterol of vertebrates and the precursor of many steroids, including bile acids and steroid hormones." [GOC

2986 Pathogen[ Q2Q067] interacts with 3 human partners:{P62633;Q14739;P14324}

2987 Pathogen[ P0C214] interacts with 7 human partners:{Q13907;Q14739;P11413;Q9BXS1;P14324;P62633;P42765}

2988 Pathogen[ P03346] interacts with 4 human partners:{Q14739;P62633;P14324;P42765}

2989 Pathogen[ Q85601] interacts with 4 human partners:{P62633;P14324;Q13907;Q14739}

2990 Pathogen[ P14079] interacts with 8 human partners:{Q9BXS1;Q9Y5U4;Q13907;Q14739;P14324;P53602;P62633;O15503}

2991 Pathogen[ P03383] interacts with 2 human partners:{P14324;P62633}

2992 Pathogen[ P03410] interacts with 9 human partners:{P53602;Q14739;Q9Y5U4;P42765;Q13907;P62633;O15503;P14324;Q9BXS1}

2993 Pathogen[ P14075] interacts with 2 human partners:{P62633;P14324}

2994 Pathogen[ P0C206] interacts with 5 human partners:{Q14739;P62633;P14324;Q13907;Q9BXS1}

2995 Pathogen[ P03363] interacts with 2 human partners:{P62633;Q14739}

2996 [Cluster 273]GO:0006434+P biological\_process [name] seryl-tRNA aminoacylation [def] "The process of coupling serine to seryl-tRNA, catalyzed by seryl-tRNA synthetase. In tRNA aminoacylation, the amino acid is first activated by linkage to AMP and then transferred to either the 2'- or the 3'-hydroxyl group of the 3'-adenosine residue of the tRNA." [GOC

2997 Pathogen[ Q2Q067] interacts with 2 human partners:{P49591;P12270}

2998 Pathogen[ P0C214] interacts with 3 human partners:{Q9NP81;P49591;P12270}

2999 Pathogen[ P03346] interacts with 1 human partners:{P12270}

3000 Pathogen[ Q85601] interacts with 1 human partners:{P12270}

3001 Pathogen[ P14079] interacts with 3 human partners:{Q9NP81;P49591;P12270}

3002 Pathogen[ P03383] interacts with 3 human partners:{P12270;Q9NP81;P49591}

3003 Pathogen[ P03410] interacts with 3 human partners:{P49591;P12270;Q9NP81}

3004 Pathogen[ P14075] interacts with 3 human partners:{P12270;Q9NP81;P49591}

3005 Pathogen[ P0C206] interacts with 3 human partners:{Q9NP81;P49591;P12270}

3006 Pathogen[ P03363] interacts with 2 human partners:{P12270;P49591}

3007 [Cluster 274]GO:0032516+P biological\_process [name] positive regulation of phosphoprotein phosphatase activity [def] "Any process that activates or increases the activity of a phosphoprotein phosphatase." [GOC

3008 Pathogen[ Q2Q067] interacts with 2 human partners:{Q86UL8;Q15257}

3009 Pathogen[ P0C214] interacts with 1 human partners:{Q15257}

3010 Pathogen[ P03346] interacts with 2 human partners:{Q15257;Q86UL8}

3011 Pathogen[ Q85601] interacts with 2 human partners:{Q86UL8;Q15257}

3012 Pathogen[ P14079] interacts with 1 human partners:{Q86UL8}

3013 Pathogen[ P03383] interacts with 1 human partners:{Q15257}

3014 Pathogen[ P03410] interacts with 2 human partners:{Q15257;Q86UL8}

3015 Pathogen[ P14075] interacts with 1 human partners:{Q15257}

3016 Pathogen[ P0C206] interacts with 2 human partners:{Q86UL8;Q15257}

3017 Pathogen[ P03363] interacts with 2 human partners:{Q15257;Q86UL8}

3018 [Cluster 275]GO:0000173+P biological\_process [name] inactivation of MAPK activity involved in osmosensory signaling pathway [def] "Any process that terminates the activity of the active enzyme MAP kinase during osmolarity sensing." [PMID

3019 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NS73}

3020 Pathogen[ P0C214] interacts with 1 human partners:{Q9NS73}



3021 Pathogen[ P03346] interacts with 1 human partners:{Q9NS73}

3022 Pathogen[ Q85601] interacts with 1 human partners:{Q9NS73}

3023 Pathogen[ P14079] interacts with 1 human partners:{Q9NS73}

3024 Pathogen[ P03383] interacts with 1 human partners:{Q9NS73}

3025 Pathogen[ P03410] interacts with 1 human partners:{Q9NS73}

3026 Pathogen[ P14075] interacts with 1 human partners:{Q9NS73}

3027 Pathogen[ P0C206] interacts with 1 human partners:{Q9NS73}

3028 Pathogen[ P03363] interacts with 1 human partners:{Q9NS73}

3029 [Cluster 276]GO:0032731+P biological\_process [name] positive regulation of interleukin-1 beta production [def] "Any process that activates or increases the frequency, rate, or extent of interleukin-1 beta production." [GOC

3030 Pathogen[ Q2Q067] interacts with 4 human partners:{Q16666;P04792;P84022;O14862}

3031 Pathogen[ P0C214] interacts with 4 human partners:{P04792;P84022;Q16666;O14862}

3032 Pathogen[ P03346] interacts with 4 human partners:{Q16666;P84022;O14862;P04792}

3033 Pathogen[ Q85601] interacts with 4 human partners:{Q16666;O14862;P84022;P04792}

3034 Pathogen[ P14079] interacts with 3 human partners:{O14862;P04792;Q16666}

3035 Pathogen[ P03383] interacts with 4 human partners:{O14862;P04792;P84022;Q16666}

3036 Pathogen[ P03410] interacts with 4 human partners:{P84022;Q16666;O14862;P04792}

3037 Pathogen[ P14075] interacts with 4 human partners:{P04792;Q16666;O14862;P84022}

3038 Pathogen[ P0C206] interacts with 4 human partners:{P84022;O14862;Q16666;P04792}

3039 Pathogen[ P03363] interacts with 4 human partners:{Q16666;P84022;O14862;P04792}

3040 [Cluster 277]GO:0071480+P biological\_process [name] cellular response to gamma radiation [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a gamma radiation stimulus. Gamma radiation is a form of electromagnetic radiation (EMR) or light emission of a specific frequency produced from sub-atomic particle interaction, such as electron-positron annihilation and radioactive decay. Gamma rays are generally characterized as EMR having the highest frequency and energy, and also the shortest wavelength, within the electromagnetic radiation spectrum." [GOC

3041 Pathogen[ Q2Q067] interacts with 3 human partners:{P46937;Q86VY4;P18146}

3042 Pathogen[ P0C214] interacts with 3 human partners:{P46937;P18146;Q86VY4}

3043 Pathogen[ P03346] interacts with 3 human partners:{P46937;Q86VY4;P18146}

3044 Pathogen[ Q85601] interacts with 3 human partners:{P18146;Q86VY4;P46937}

3045 Pathogen[ P14079] interacts with 3 human partners:{P13498;P46937;Q86VY4}

3046 Pathogen[ P03383] interacts with 3 human partners:{Q86VY4;P18146;P46937}

3047 Pathogen[ P03410] interacts with 3 human partners:{Q86VY4;P46937;P18146}

3048 Pathogen[ P14075] interacts with 3 human partners:{P18146;P46937;Q86VY4}

3049 Pathogen[ P0C206] interacts with 3 human partners:{P46937;Q86VY4;P18146}

3050 Pathogen[ P03363] interacts with 3 human partners:{P18146;P46937;Q86VY4}

3051 [Cluster 278]GO:0050880+P biological\_process [name] regulation of blood vessel size [def] "Any process that modulates the size of blood vessels." [GOC

3052 Pathogen[ Q2Q067] interacts with 2 human partners:{P68871;P29474}

3053 Pathogen[ P0C214] interacts with 3 human partners:{P29474;P68871;P35520}

3054 Pathogen[ P03346] interacts with 2 human partners:{P29474;P68871}

3055 Pathogen[ Q85601] interacts with 2 human partners:{P29474;P68871}

3056 Pathogen[ P14079] interacts with 1 human partners:{P68871}

3057 Pathogen[ P03383] interacts with 2 human partners:{P29474;P68871}

3058 Pathogen[ P03410] interacts with 2 human partners:{P29474;P68871}

3059 Pathogen[ P14075] interacts with 2 human partners:{P29474;P68871}

3060 Pathogen[ P0C206] interacts with 2 human partners:{P68871;P29474}

3061 Pathogen[ P03363] interacts with 2 human partners:{P29474;P68871}

3062 [Cluster 279]GO:0006874+P biological\_process [name] cellular calcium ion homeostasis [def] "Any process involved in the maintenance of an internal steady state of calcium ions at the level of a cell." [GOC

3063 Pathogen[ Q2Q067] interacts with 4 human partners:{Q96TC7;P27797;P20073;P26678}

3064 Pathogen[ P0C214] interacts with 5 human partners:{Q96TC7;P19429;P27797;P20073;P26678}

3065 Pathogen[ P03346] interacts with 5 human partners:{O75603;P20073;P26678;Q96TC7;P27797}

3066 Pathogen[ Q85601] interacts with 3 human partners:{P27797;P20073;Q96TC7}

3067 Pathogen[ P14079] interacts with 8 human partners:{P19429;O95292;P20073;Q15493;Q15011;P26678;Q96TC7;P13693}

3068 Pathogen[ P03383] interacts with 4 human partners:{Q96TC7;P26678;P20073;P27797}

3069 Pathogen[ P03410] interacts with 9 human partners:{O95292;Q96TC7;P19429;P26678;P13693;P20073;Q15011;Q15493;P27797}

3070 Pathogen[ P14075] interacts with 5 human partners:{Q96TC7;P20073;P26678;P27797;Q15011}

3071 Pathogen[ P0C206] interacts with 9 human partners:{Q96TC7;Q15493;P27797;P19429;P50461;O95292;Q15011;P26678;P20073}

3072 Pathogen[ P03363] interacts with 5 human partners:{P20073;Q96TC7;P27797;Q8IWX8;P19429}

3073 [Cluster 280]GO:0035195+P biological\_process [name] gene silencing by miRNA [def] "Downregulation of gene expression through the action of microRNAs (miRNAs), endogenous 21-24 nucleotide small RNAs processed from stem-loop RNA precursors (pre-miRNAs). Once incorporated into a RNA-induced silencing complex (RISC), miRNAs can downregulate gene expression by either of two posttranscriptional mechanisms

3074 Pathogen[ Q2Q067] interacts with 3 human partners: {A6NIX2;Q96IF1;Q9UGP4}  
3075 Pathogen[ P0C214] interacts with 2 human partners: {Q9UGP4;A6NIX2}  
3076 Pathogen[ P03346] interacts with 3 human partners: {Q9UGP4;Q96IF1;A6NIX2}  
3077 Pathogen[ Q85601] interacts with 3 human partners: {A6NIX2;Q96IF1;Q9UGP4}  
3078 Pathogen[ P14079] interacts with 3 human partners: {Q96IF1;A6NIX2;Q9UGP4}  
3079 Pathogen[ P03383] interacts with 2 human partners: {A6NIX2;Q9UGP4}  
3080 Pathogen[ P03410] interacts with 3 human partners: {Q9UGP4;Q96IF1;A6NIX2}  
3081 Pathogen[ P14075] interacts with 2 human partners: {Q9UGP4;A6NIX2}  
3082 Pathogen[ P0C206] interacts with 3 human partners: {Q9UGP4;Q96IF1;A6NIX2}  
3083 Pathogen[ P03363] interacts with 3 human partners: {Q96IF1;Q9UGP4;A6NIX2}  
3084 [Cluster 281]GO:0032259+P biological\_process [name] methylation [def] "The process in which a methyl group is covalently attached to a molecule." [GOC  
3085 Pathogen[ Q2Q067] interacts with 64 human partners: {O43463;Q96CB9;O14744;Q8IZD2;Q9NVM4;O60294;P22087;Q9H5Q4;Q96LA8;O43159;Q15910;P46087;Q9NR48;Q8WVM0;Q8NE18;Q9Y6K1;Q9Y5N5;P55345;P22061;Q9UBP6;Q92800;Q9H825;O14686;A6NHQ2;Q8TBK2;Q7L0Y3;Q6PF06;Q96DP5;Q14749;Q9UIC8;Q9NR22;O43148;Q92979;Q99873;Q9UBC3;Q9NRG4;Q8N1G2;Q15047;Q08J23;P26358;Q86Y97;Q96RS0;Q9BV86;Q96FX7;Q7L592;P04818;Q7Z5W3;Q32P41;Q9UI43;Q9BVS5;P16455;Q5T8I9;Q8TEK3;Q9UNQ2;P51580;Q9BTL3;Q9H7H0;Q9H5I1;Q86X55;Q86TU7;Q8IY81;O96028;Q8WTS6;Q9NUP7}  
3086 Pathogen[ P0C214] interacts with 80 human partners: {Q9H825;Q96FX7;Q9H8K9;Q9H5I1;P04818;Q15047;P46087;Q7L0Y3;O43159;P0C7V9;Q6PF06;A6NJ78;Q9NVM4;Q9H7H0;A6NHQ2;P51580;P40261;P34897;Q96DP5;Q9Y6K1;Q9UNQ2;P22087;Q99873;Q15910;P55345;Q8N6Q8;O43463;Q9UET6;O43148;Q7L592;Q8NE18;Q86W50;P22061;Q14749;Q7Z5W3;Q92979;P26358;Q08J23;Q8IYL2;Q5T8I9;Q9Y5N5;Q9UI43;Q86TU7;O60294;Q8IY81;Q96RS0;Q86Y97;Q9UBP6;P16455;Q32P41;Q9NUP7;Q8IXQ9;Q9BTL3;Q8TEA1;P23526;Q9NR48;Q8N1G2;Q9HCE5;Q8WVM0;Q96BT7;Q86X55;Q9UIC8;Q6IN84;Q8WTS6;Q9NQR1;Q92800;Q9NRG4;Q96CB9;Q5HYK3;Q9BV86;Q9BVS5;Q9NR22;Q9NQV7;Q8TBK2;Q8IZD2;Q96LA8;Q9H5Q4;Q8TEK3;O96028;Q9NZL9}  
3087 Pathogen[ P03346] interacts with 85 human partners: {Q08J23;Q9HCE5;Q96FX7;P50135;Q9Y6K1;P22061;Q9NQV7;A6NJ78;Q92979;Q99873;Q5T8I9;Q92800;Q9BTL3;Q86Y97;P23526;Q8IXQ9;Q32P41;Q9NQR1;A6NHQ2;Q9NZL9;Q9Y5N5;P51580;Q8TBK2;O43159;Q8IYL2;Q8TEK3;O14744;Q9UIC8;Q9BYW2;Q9H825;Q9UBC3;P26358;Q14749;O43463;Q9NRG4;Q9UNQ2;O60294;P0C7V9;O43148;Q96DP5;Q7Z624;Q8WTS6;Q86U44;Q9BVS5;P46087;P55345;Q9NR22;Q9NVM4;Q9H5Q4;Q96RS0;Q7L592;Q8N1G2;O14717;O14686;Q9UBP6;Q15910;Q8IY81;Q96BT7;Q9NUP7;Q9H7H0;Q8WVM0;Q6IN84;Q15047;Q6PF06;Q86X55;Q96GJ1;Q5HYK3;O95050;Q9BV86;P22087;Q7L0Y3;Q13029;Q7Z5W3;Q9NR48;Q9H5I1;Q13395;Q9UI43;Q8IZD2;P40261;Q9H8K9;Q96LA8;Q96CB9;O96028;Q8NE18;Q86TU7}  
3088 Pathogen[ Q85601] interacts with 69 human partners: {Q9H5I1;Q32P41;P46087;Q9NQV7;O43148;Q8N1G2;Q9NR22;Q86X55;Q9BVS5;Q8TBK2;Q9NQV7;Q92979;A6NHQ2;P16455;Q9NR48;Q8N6Q8;Q9UBP6;Q86TU7;Q9H825;Q9NVM4;Q7Z5W3;Q9BV86;O14686;Q9Y5N5;Q5T8I9;O43159;P26358;Q96FX7;O14744;O43463;Q9H7H0;Q8NE18;O60294;Q9UI43;Q8WTS6;Q99873;Q6PF06;Q08J23;Q8IYL2;Q9UET6;Q9Y6K1;Q96RS0;P22061;Q8IY81;Q8TEK3;Q9NUP7;Q86Y97;Q9BTL3;Q15910;P23526;P22087;Q9NRG4;Q9H5Q4;Q7L0Y3;Q8WVM0;Q9HCE5;Q15047;Q9UIC8;Q92800;Q8IXQ9;Q8IZD2;Q14749;Q96LA8;Q96CB9;Q9UBC3;P55345;O96028;Q9UNQ2}  
3089 Pathogen[ P14079] interacts with 93 human partners: {Q6PF06;Q92979;Q96RS0;Q9NR22;O60294;Q8TBZ6;Q9UI43;Q15047;Q9HC36;Q7L592;Q96LA8;Q9NRG4;Q7L2J0;Q9Y6K1;Q9Y5N5;Q6IPR3;Q9UNQ2;Q99873;Q9NVM4;Q5JXM2;P50135;Q8N1G2;Q9NUP7;Q9BV86;Q7Z4G4;Q86TU7;Q9NRN9;Q92800;P16455;P34897;A6NHQ2;Q32P41;Q8TEA1;Q9NZL9;O60678;Q8IY81;P0C7V9;P22087;Q9HCE5;Q9H5I1;Q86U44;Q9UIC8;A6NJ78;O43148;P55345;O14744;Q9UBC3;Q14749;Q14353;Q63ZY6;Q8TEK3;Q9UET6;Q9NQR1;P46087;Q96P11;Q08J23;P26358;Q9BTL3;Q9H649;Q8IXQ9;Q9H8K9;Q6IN84;Q8N3J2;Q9Y5R4;Q96CB9;O43159;Q8N6Q8;Q9H7H0;Q8TBK2;Q9BVS5;Q9NQV7;Q15910;P23526;Q9H5Q4;Q13395;Q9H2M3;Q8IYL2;P51580;P04818;Q5HYK3;Q96FX7;Q86Y97;Q7L0Y3;Q9BV44;Q8NE18;Q7Z624;O95050;Q96DP5;Q7Z5W3;Q8WTS6;Q86W50;Q8WVM0}  
3090 Pathogen[ P03383] interacts with 58 human partners: {Q15047;O43148;Q7L592;Q9NRG4;O43463;Q86X55;Q8IYL2;Q9UBP6;Q9H825;Q9UNQ2;Q86Y97;Q5T8I9;Q9H5Q4;Q9BVS5;Q9UI43;Q86TU7;Q7L0Y3;Q32P41;O14744;A6NJ78;P0C7V9;O43159;Q8WTS6;Q9UET6;Q99873;Q9Y6K1;Q9NR22;Q8IY81;O60294;Q6PF06;Q9Y5N5;Q08J23;Q96RS0;P22061;Q8WVM0;Q96FX7;Q8IXQ9;Q9NUP7;P46087;Q9UIC8;Q9H7H0;Q96DP5;Q15910;Q9BTL3;Q92979;Q96CB9;Q8TEK3;Q8TBK2;Q7Z5W3;P22087;Q9H5I1;Q9NQR1;P26358;Q14749;Q96LA8;Q8N1G2;Q92800;Q8NE18}  
3091 Pathogen[ P03410] interacts with 101 human partners: {Q32P41;Q7L592;Q96DP5;A6NJ78;P22087;Q96RS0;Q9H8K9;Q96LA8;Q9H825;Q14353;Q96P11;Q14749;Q9HCE5;Q9H7H0;Q15047;Q8TBZ6;Q9HC36;Q9BTL3;Q63ZY6;Q9UBP6;Q9H2M3;Q8N3J2;Q86Y97;Q8IYT2;Q9BUU2;Q9H649;Q96CB9;Q8TEK3;Q9NRN9;Q8TEA1;Q5T8I9;Q8WTS6;A6NHQ2;O95050;Q7Z4G4;Q9NVM4;Q86X55;Q6PF06;Q8TBK2;O43159;Q9NR22;Q8IYL2;Q8IXQ9;Q92979;Q92800;P26358;Q6IPR3;Q9UNQ2;Q9NQV7;Q13395;P04818;Q6IN84;Q9NQR1;Q8N1G2;Q9H5I1;Q8NE18;P16455;Q9BV44;Q9H5Q4;Q96GJ1;Q15910;O60294;P23526;Q8N6Q8;Q9UBC3;Q9UIC8;Q08J23;Q7Z5W3;P46087;Q7Z624;Q8WVM0;Q96FX7;Q9UI43;Q7L2J0;Q8IY81;Q9BV86;O43148;Q5JXM2;O43463;O14744;Q86U44;P0C7V9;Q9BVS5;Q9Y6K1;Q9Y5N5;Q86W50;P22061;Q9NUP7;P50135;Q5HYK3;O95568;Q9Y5R4;Q9UET6;Q9NZL9;P51580;P34897;Q86TU7;Q99873;P55345;Q9NRG4;Q7L0Y3}  
3092 Pathogen[ P14075] interacts with 61 human partners: {Q9H7H0;Q8N1G2;Q5HYK3;Q7L592;Q9H5Q4;Q9Y6K1;Q92979;Q9NR22;Q7L0Y3;Q6IN84;Q9UET6;Q86TU7;Q8NE18;Q15047;Q9NQR1;Q9H825;Q15910;Q92800;Q8IY81;Q8TBK2;Q7Z5W3;O60294;Q96CB9;P26358;Q9UI43;Q6PF06;Q32P41;Q9H5I1;Q8IXQ9;O14744;Q96LA8;Q99873;Q9Y5N5;Q86X55;Q9UNQ2;Q5T8I9;P22087;Q96RS0;P46087;Q9UBP6;P51580;Q9BTL3;Q9BVS5;P22061;Q9NUP7;Q8TEK3;Q8IYL2;Q86Y97;P0C7V9;O43159;O43463;Q14749;Q96FX7;O43148;Q8WVM0;Q08J23;Q9NRG4;A6NJ78;Q96DP5;Q8WTS6;Q9UIC8}  
3093 Pathogen[ P0C206] interacts with 93 human

partners: {P0C7V9; Q96RS0; Q08J23; A6NHQ2; O43159; Q9UI43; Q9Y6K1; Q9UBP6; Q96CB9; Q86W50; Q9NZL9; Q9BV86; Q9UIC8; P22061; Q99873; O14744; Q32P41; Q96GJ1; O60294; Q8NE18; Q9NRG4; Q86X55; Q9H7B4; O43463; Q96LA8; P26358; Q86TU7; Q8TBZ6; Q92800; P34897; Q7Z624; Q9NQX0; Q9UET6; Q9BTL3; O14686; Q15910; Q7Z5W3; Q8WVM0; Q9NRN9; Q5T8I9; Q6PF06; P51580; Q9UNQ2; Q9NQV7; Q8TEA1; Q8N6Q8; Q9H825; Q9HBK9; Q92979; Q96FX7; Q86Y97; Q9NVM4; Q7L0Y3; Q9BVS5; Q9NR48; Q7Z4G4; Q9NQR1; O96028; P23526; Q8WTS6; Q9NUP7; Q9H2M3; Q9H5I1; Q9HCE5; Q6IN84; Q9Y5N5; Q9NR22; P04818; Q8TEK3; P46087; Q9H5Q4; O60678; P22087; Q8TBK2; Q14749; Q9H7H0; Q15047; Q9UBC3; P55345; Q7L2J0; Q8IYL2; O43148; P16455; Q96DP5; P50135; Q8N1G2; Q8IXQ9; Q8IY81; Q5HYK3; Q6IPR3; Q7L592; A6NJ78; Q8IZD2}

3094 Pathogen[ P03363] interacts with 79 human partners: {Q32P41; Q9UNQ2; Q92979; Q96RS0; O14744; Q9H825; Q9H7H0; P46087; Q08J23; P51580; O95050; Q7Z624; P0C7V9; Q9H5I1; Q96LA8; O95568; Q8WVE0; Q9Y5R4; Q7L592; P50135; Q6PF06; Q9BV86; Q9NRN9; Q5T8I9; Q8N1G2; Q96BT7; Q15910; Q8TEK3; Q9Y6K1; Q9UET6; Q86U44; O15047; Q8TBK2; O14717; Q8IXQ9; Q8IYL2; Q9BTL3; Q9HBK9; Q9NVM4; Q9UBP6; Q9NRG4; Q8IY81; Q9NR22; Q8NE18; Q13395; Q14749; Q96FX7; P22087; Q7L0Y3; P26358; O43148; Q9UPS6; Q9HCE5; Q9Y5N5; Q9NR48; Q9UIC8; Q96028; A6NJ78; Q8N3J2; Q8WVM0; O43159; O43463; Q7Z5W3; O60294; Q9BVS5; Q7Z4G4; Q9NQR1; Q6P2P2; Q8WTS6; Q92800; Q9UBC3; Q9UI43; Q15047; Q86Y97; Q86X55; O14686; Q99873; A6NHQ2; Q9H5Q4}

3095 [Cluster 282]GO:0043281+P biological\_process [name] regulation of cysteine-type endopeptidase activity involved in apoptotic process [def] "Any process that modulates the activity of a cysteine-type endopeptidase involved in apoptosis." [GOC]

3096 Pathogen[ Q2Q067] interacts with 2 human partners: {P16455; Q14154}

3097 Pathogen[ P0C214] interacts with 4 human partners: {Q9NPP4; Q92934; P16455; Q14154}

3098 Pathogen[ P03346] interacts with 2 human partners: {Q9NPP4; Q14154}

3099 Pathogen[ Q85601] interacts with 2 human partners: {P16455; Q14154}

3100 Pathogen[ P14079] interacts with 4 human partners: {P16455; Q92934; Q14154; Q9NPP4}

3101 Pathogen[ P03383] interacts with 1 human partners: {Q14154}

3102 Pathogen[ P03410] interacts with 4 human partners: {Q92934; Q9NPP4; P16455; Q14154}

3103 Pathogen[ P14075] interacts with 1 human partners: {Q14154}

3104 Pathogen[ P0C206] interacts with 3 human partners: {Q92934; Q14154; P16455}

3105 Pathogen[ P03363] interacts with 2 human partners: {Q14154; Q9NPP4}

3106 [Cluster 283]GO:0042744+P biological\_process [name] hydrogen peroxide catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of hydrogen peroxide (H2O2)." [GOC]

3107 Pathogen[ Q2Q067] interacts with 3 human partners: {Q06830; P68871; P69905}

3108 Pathogen[ P0C214] interacts with 4 human partners: {P69905; Q06830; Q16881; P68871}

3109 Pathogen[ P03346] interacts with 3 human partners: {P69905; P68871; Q06830}

3110 Pathogen[ Q85601] interacts with 3 human partners: {P69905; P68871; Q06830}

3111 Pathogen[ P14079] interacts with 2 human partners: {P69905; P68871}

3112 Pathogen[ P03383] interacts with 2 human partners: {P69905; P68871}

3113 Pathogen[ P03410] interacts with 3 human partners: {P68871; P69905; Q06830}

3114 Pathogen[ P14075] interacts with 2 human partners: {P68871; P69905}

3115 Pathogen[ P0C206] interacts with 3 human partners: {P68871; P69905; Q06830}

3116 Pathogen[ P03363] interacts with 2 human partners: {P69905; P68871}

3117 [Cluster 284]GO:0001932+P biological\_process [name] regulation of protein phosphorylation [def] "Any process that modulates the frequency, rate or extent of addition of phosphate groups into an amino acid in a protein." [GOC]

3118 Pathogen[ Q2Q067] interacts with 9 human partners: {Q9P219; Q15910; Q8TF40; P67775; Q15173; Q9P278; Q8WWQ0; Q8NFG4; O60921}

3119 Pathogen[ P0C214] interacts with 10 human partners: {Q9P278; Q8NFG4; Q15910; O60921; Q8TF40; Q15173; Q8WWQ0; P67775; Q9P219; O15524}

3120 Pathogen[ P03346] interacts with 10 human partners: {O60921; O15524; Q8TF40; Q8NFG4; P67775; Q9P278; Q9P219; Q8WWQ0; Q15910; Q15173}

3121 Pathogen[ Q85601] interacts with 9 human partners: {Q8NFG4; Q15173; Q8TF40; Q9P219; Q8WWQ0; O60921; P67775; Q15910; Q9P278}

3122 Pathogen[ P14079] interacts with 8 human partners: {O43181; Q15173; Q8WWQ0; Q8TF40; Q8NFG4; Q15910; O60921; Q9P219}

3123 Pathogen[ P03383] interacts with 8 human partners: {Q15173; P67775; Q9P278; O60921; Q8NFG4; Q8WWQ0; Q15910; Q8TF40}

3124 Pathogen[ P03410] interacts with 10 human partners: {Q9P219; Q8NFG4; Q15173; Q8WWQ0; Q15910; O60921; O43181; P67775; Q8TF40; Q9P278}

3125 Pathogen[ P14075] interacts with 8 human partners: {Q8WWQ0; Q8NFG4; Q8TF40; Q15910; Q15173; P67775; O60921; Q9P278}

3126 Pathogen[ P0C206] interacts with 10 human partners: {Q15173; Q9P278; O15524; P67775; Q15910; Q8WWQ0; Q8TF40; Q9P219; O60921; Q8NFG4}

3127 Pathogen[ P03363] interacts with 11 human partners: {P36575; Q8WWQ0; Q8TF40; O15524; Q15910; Q8NFG4; Q15173; O60921; Q9P278; Q9P219; P67775}

3128 [Cluster 285]GO:0006559+P biological\_process [name] L-phenylalanine catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of phenylalanine, 2-amino-3-phenylpropanoic acid." [GOC]

3129 Pathogen[ Q2Q067] interacts with 2 human partners: {P61457; O43708}

3130 Pathogen[ P0C214] interacts with 4 human partners: {P09417; P61457; O43708; Q16773}

3131 Pathogen[ P03346] interacts with 2 human partners: {O43708; P61457}

3132 Pathogen[ Q85601] interacts with 2 human partners: {O43708; P61457}

3133 Pathogen[ P14079] interacts with 4 human partners: {P61457; Q93099; O43708; P16930}

3134 Pathogen[ P03383] interacts with 1 human partners: {P61457}

3135 Pathogen[ P03410] interacts with 4 human partners: {O43708; Q93099; P16930; P61457}

3136 Pathogen[ P14075] interacts with 1 human partners:{P61457}

3137 Pathogen[ P0C206] interacts with 2 human partners:{O43708;P61457}

3138 Pathogen[ P03363] interacts with 2 human partners:{P61457;O43708}

3139 [Cluster 286]GO:0016925+P biological\_process [name] protein sumoylation [def] "The process in which a SUMO protein (small ubiquitin-related modifier) is conjugated to a target protein via an isopeptide bond between the carboxyl terminus of SUMO with an epsilon-amino group of a lysine residue of the target protein." [GOC

3140 Pathogen[ Q2Q067] interacts with 16 human partners:{Q99502;O75925;Q9NS56;P49792;O00257;P63279;O75928;Q9GZR1;P63165;P55854;Q9Y6X2;P11161;P61956;Q9BYX4;Q96MF7;Q8N2W9}

3141 Pathogen[ P0C214] interacts with 16 human partners:{Q9Y6X2;P61956;O75925;Q9NS56;Q8N2W9;P63279;P49792;Q9BYX4;P55854;P63165;Q96MF7;O00257;Q9GZR1;P11161;O75928;Q99502}

3142 Pathogen[ P03346] interacts with 18 human partners:{Q13263;Q9GZR1;Q96MF7;P61956;P55854;P63279;O00257;Q99502;Q9H165;O75925;Q9NS56;P63165;Q8N2W9;Q9BYX4;P11161;Q9Y6X2;O75928;P49792}

3143 Pathogen[ Q85601] interacts with 17 human partners:{Q9NS56;O75928;Q9Y6X2;P61956;Q8N2W9;P63279;Q13263;Q99502;Q9BYX4;P55854;P63165;P49792;O00257;O75925;Q9GZR1;P11161;Q96MF7}

3144 Pathogen[ P14079] interacts with 15 human partners:{Q8N2W9;P63279;Q99502;Q9BYX4;Q96MF7;O75928;Q9Y6X2;P63165;P61956;O00257;P11161;P55854;Q9NS56;O75925;Q9GZR1}

3145 Pathogen[ P03383] interacts with 13 human partners:{O75925;P49792;P61956;O00257;Q8N2W9;Q96MF7;P55854;P63165;Q9Y6X2;P11161;P63279;Q9GZR1;O75928}

3146 Pathogen[ P03410] interacts with 15 human partners:{P55854;O75925;P63165;Q99502;Q9BYX4;Q9Y6X2;O75928;Q8N2W9;Q9GZR1;Q96MF7;P63279;O00257;P11161;P61956;P49792}

3147 Pathogen[ P14075] interacts with 14 human partners:{P63165;P11161;P49792;O75925;Q8N2W9;P63279;P55854;O00257;P61956;O75928;Q99502;Q96MF7;Q9Y6X2;Q9GZR1}

3148 Pathogen[ P0C206] interacts with 16 human partners:{Q9NS56;Q13263;P11161;O75925;Q8N2W9;P61956;Q9Y6X2;P49792;Q9GZR1;P55854;Q96MF7;Q9H165;Q99502;P63165;Q9BYX4;O00257}

3149 Pathogen[ P03363] interacts with 15 human partners:{Q9Y6X2;P63165;P49792;O75925;P63279;Q9UBE0;Q9BYX4;P61956;Q9GZR1;Q8N2W9;O00257;Q96MF7;P55854;O75928;P11161}

3150 [Cluster 287]GO:0010510+P biological\_process [name] regulation of acetyl-CoA biosynthetic process from pyruvate [def] "Any process that modulates the frequency, rate or extent of the chemical reactions and pathways resulting in the formation of acetyl-CoA from pyruvate." [GOC

3151 Pathogen[ Q2Q067] interacts with 1 human partners:{P10515}

3152 Pathogen[ P0C214] interacts with 6 human partners:{Q8NCN5;P11177;Q9P0J1;P09622;P10515;Q9P2J9}

3153 Pathogen[ P03346] interacts with 2 human partners:{Q8NCN5;P10515}

3154 Pathogen[ Q85601] interacts with 1 human partners:{P10515}

3155 Pathogen[ P14079] interacts with 2 human partners:{P10515;Q8NCN5}

3156 Pathogen[ P03383] interacts with 1 human partners:{P10515}

3157 Pathogen[ P03410] interacts with 2 human partners:{Q8NCN5;P10515}

3158 Pathogen[ P14075] interacts with 2 human partners:{Q8NCN5;P10515}

3159 Pathogen[ P0C206] interacts with 2 human partners:{Q8NCN5;P10515}

3160 Pathogen[ P03363] interacts with 1 human partners:{P10515}

3161 [Cluster 288]GO:0031134+P biological\_process [name] sister chromatid biorientation [def] "The cell cycle process in which sister chromatids establish stable attachments to microtubules emanating from opposite spindle poles." [PMID

3162 Pathogen[ Q2Q067] interacts with 2 human partners:{P06400;Q96JM3}

3163 Pathogen[ P0C214] interacts with 2 human partners:{Q96JM3;P06400}

3164 Pathogen[ P03346] interacts with 2 human partners:{P06400;Q96JM3}

3165 Pathogen[ Q85601] interacts with 2 human partners:{Q96JM3;P06400}

3166 Pathogen[ P14079] interacts with 1 human partners:{Q96JM3}

3167 Pathogen[ P03383] interacts with 1 human partners:{P06400}

3168 Pathogen[ P03410] interacts with 2 human partners:{Q96JM3;P06400}

3169 Pathogen[ P14075] interacts with 1 human partners:{P06400}

3170 Pathogen[ P0C206] interacts with 2 human partners:{Q96JM3;P06400}

3171 Pathogen[ P03363] interacts with 2 human partners:{P06400;Q96JM3}

3172 [Cluster 289]GO:0006511+P biological\_process [name] ubiquitin-dependent protein catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of a protein or peptide by hydrolysis of its peptide bonds, initiated by the covalent attachment of a ubiquitin group, or multiple ubiquitin groups, to the protein." [GOC

3173 Pathogen[ Q2Q067] interacts with 82 human partners:{Q95376;Q9Y5K5;Q96J02;Q92890;Q93034;Q93009;Q9HAU4;Q5JXB2;Q9NS56;Q9Y5A7;O00231;O00233;Q9UJX5;P62837;P53804;Q8IYW8;O60260;P28072;O00762;O43255;Q9NVW2;Q9NZJ0;P60604;Q9UJT9;Q70EL1;Q8TEL6;P25787;P63279;P51965;Q504Q3;Q9Y311;O14818;P61077;Q9UJX2;P63146;Q9Y297;Q9UKC9;Q9UM13;P60900;Q9Y4X5;Q86T82;P51668;Q8TBB1;Q96EP1;P25788;Q13616;Q92530;P25786;Q13618;Q15369;Q5VTR2;O76064;Q13309;Q70EK8;Q9UJX4;P25789;Q93008;Q13620;Q136

- 19;Q9Y3C5;O75150;Q9UNE7;Q14139;P49459;Q96PU4;Q05086;P62256;P28066;P68036;Q9NXX8;Q8TA  
A3;Q9UKA2;Q9UJX6;Q86XK2;Q9Y252;Q8NEZ5;O15205;P63208;Q13617;Q9UKT5;Q13501;Q14999}
- 3174 Pathogen[ P0C214] interacts with 90 human  
partners: {Q05086;Q9UJX6;Q96J02;Q13619;Q13617;Q8I WV8;Q9Y3I1;P25789;Q9HAU4;Q13620;O007  
62;P46379;Q13309;Q9NS56;O14818;Q504Q3;Q92560;Q9UJX5;P63208;Q86Y37;Q96PU4;Q5JXB2;P632  
79;P49459;Q13618;Q9Y3C5;Q93034;Q14999;Q9UJX2;Q9Y297;Q9NXX8;P51965;Q93008;P61077;Q9Y5  
K5;Q13501;Q70EK8;P28066;P62253;Q9UKA2;P61086;Q95071;Q14139;Q95376;Q9NVW2;Q15369;Q9NZ  
J0;P25788;P53804;O00231;Q93009;P25786;O15205;Q9UKC9;Q13616;Q8TBB1;Q9Y252;P28072;Q928  
90;Q8TAA3;Q8TEL6;Q9UJX4;Q94952;P25787;Q86XK2;O75150;O95155;O60260;Q9Y5A7;P35998;P609  
00;P62256;Q70EL1;O00233;P51668;Q9Y4X5;Q5VTR2;Q8IYW5;O43255;Q9UNE7;O76064;Q92530;Q9UJ  
T9;Q9UM13;P63146;Q8I WV7;Q96EP1;P55072;Q9UKT5;P60604}
- 3175 Pathogen[ P03346] interacts with 104 human  
partners: {Q9NZJ0;P25787;Q96J02;Q9UKA2;Q9BXU7;Q504Q3;Q93009;P25789;Q92560;O76064;Q9HA  
U4;P68036;O75150;Q13616;Q70EK8;Q5VTR2;O95155;O95376;Q93008;Q9UJT9;P28072;Q9Y3C5;P257  
88;Q8NEZ5;O14818;Q13618;O43255;P0C7H9;Q9UM13;P63279;P0C7I0;Q86XK2;P49459;Q9NXX8;P550  
72;Q86T82;P51668;P61077;Q93034;Q13620;O00233;Q9UJX6;Q9UHP3;Q14139;Q9NS56;Q14694;P517  
84;P60604;Q9Y5A7;P51965;Q13309;Q9UJX5;P63146;Q9UKT5;Q86UV5;Q9UNE7;O00762;P46379;Q9UJ  
X2;P60900;Q8I WT3;O75604;P25786;O15205;O00231;P62837;Q8IUQ4;Q86Y37;P63208;Q8IYW5;Q8TB  
B1;P28066;Q70EL1;O60260;Q9UJX4;Q8TAA3;Q94952;Q15369;Q13619;Q8I WV8;Q14999;Q8TEL6;Q5JX  
B2;Q96PU4;Q05086;P62256;Q94782;P53804;Q9Y4X5;Q9Y252;Q95071;Q9Y297;Q9UKC9;Q92530;Q9Y3  
I1;Q92890;Q9Y5K5;A6NCW7;A0AVT1;Q9HOE7;Q9NVW2;Q96EP1;Q13501;Q13617}
- 3176 Pathogen[ Q85601] interacts with 94 human  
partners: {Q14139;Q9UJX2;P28066;Q96J02;P60900;Q9Y5T5;Q9Y3I1;Q13309;P62253;Q9HAU4;Q9NS  
56;Q9UJX6;Q9HOE7;P63146;Q93009;P25787;Q8I WV7;Q9Y3C5;P25788;Q92560;Q9UKA2;Q96PU4;Q9NZ  
J0;Q13616;P46379;Q86XK2;O95155;Q86Y37;P51668;P68036;Q93008;P61077;P63279;Q504Q3;Q9UK  
C9;P25789;O00233;Q9NXX8;P63208;O76064;Q9UJX5;P51965;Q9NQC7;Q9UM13;Q70EK8;Q9UJT9;P610  
86;Q9Y5K5;P25786;O15205;O00762;Q15369;P28072;P49459;Q8IYW5;Q8TBB1;Q86T82;O75150;O953  
76;O60260;Q9UJX4;Q5VTR2;Q9Y252;Q8TAA3;P62837;O00231;Q14999;Q92890;Q5JXB2;Q05086;P622  
56;Q92530;Q9Y5A7;Q13620;Q13618;Q96EP1;Q94952;P53804;Q95071;O43255;P60604;Q9UKT5;Q9UN  
E7;Q13619;O14818;Q9Y4X5;Q93034;Q9NVW2;Q70EL1;Q8TEL6;Q13501;Q8I WV8;Q8NEZ5;Q13617}
- 3177 Pathogen[ P14079] interacts with 75 human  
partners: {Q70EL1;O60260;P62333;P53804;Q9UKT5;P51965;P63279;Q8TEL6;Q8I WV8;P68036;Q133  
09;Q5JXB2;Q13620;Q13618;Q9UJX5;P60604;Q70EK8;O00487;P25787;Q86XK2;Q9UKC9;O00233;P359  
98;Q9HAU4;P61077;Q92890;Q8I WV7;Q8TBB1;Q8TAA3;P62256;Q9Y5K5;P51668;P60900;Q5VTR2;Q925  
60;O15205;Q9UM13;Q93034;P49459;O14818;Q9NS56;Q92560;Q96J02;Q13501;Q94952;Q9UJX6;Q141  
39;Q13617;Q5W0Q7;Q8NEZ5;P62837;Q9NZJ0;Q9Y3C5;Q15011;O00762;Q15369;Q9UKA2;Q8I WV3;P257  
88;P63208;Q9UJT9;O00231;Q13616;P28066;Q86Y37;Q9Y3I1;Q9Y5A7;Q504Q3;Q9NQC7;P63146;Q9UJ  
X4;Q14999;Q9NXX8;P28072;Q13619}
- 3178 Pathogen[ P03383] interacts with 66 human  
partners: {Q13616;Q9Y3I1;Q15369;P53804;Q8TBB1;Q9NZJ0;Q14139;P51965;Q9UJX6;P25789;P609  
00;Q8I WV8;Q5JXB2;Q93034;O00233;Q96PU4;O00762;Q86XK2;P63208;Q13618;P61077;Q9Y5A7;Q8TE  
L6;Q9NXX8;O60260;Q9UM13;P60604;Q9UKT5;O95376;P25786;P62837;Q9Y5K5;P28072;O43255;Q135  
01;P28066;Q5VTR2;Q9UKC9;Q9Y252;Q13617;Q9UJX4;O00231;P68036;Q9UJX5;Q13309;P49459;P622  
56;Q92530;P63146;Q8TAA3;Q70EK8;Q96EP1;Q94952;Q9UJX2;Q8NEZ5;O75150;O14818;O15205;Q928  
90;P63279;P51668;Q14999;P25787;P25788;Q13620;Q70EL1}
- 3179 Pathogen[ P03410] interacts with 70 human  
partners: {Q8I WV8;O15205;Q8TEL6;P25786;Q70EL1;P60900;Q13620;P35998;P51965;Q9UJX4;Q9Y3  
I1;Q8TBB1;O00233;Q9UM13;Q9NXX8;P49459;Q13501;Q9UKT5;Q8TAA3;Q9Y5A7;Q5VTR2;O60260;Q8I W  
V7;P68036;Q5JXB2;Q9UNE7;Q13618;P63208;O75150;P25787;Q15369;Q13309;Q9Y3C5;Q86XK2;Q8NE  
Z5;P62256;Q9UKC9;Q9Y4X5;P63146;O14818;Q86Y37;P51668;Q9UJX5;O00231;Q70EK8;Q9UKA2;P257  
89;Q13616;O00762;Q13619;Q9Y5K5;P63279;Q15011;Q14139;Q13617;P28072;P60604;Q9UJT9;Q949  
52;P25788;P53804;P28066;Q504Q3;Q93034;Q92890;Q9UJX6;Q96EP1;P61077;P62837;Q9NZJ0}
- 3180 Pathogen[ P14075] interacts with 66 human  
partners: {Q5VTR2;P53804;P60604;P25788;P28066;P68036;Q93034;P62837;Q13618;Q8TAA3;P609  
00;O00233;Q9Y252;P49459;Q14139;Q96PU4;P51965;Q70EL1;Q13620;Q92890;P63279;Q9Y3I1;Q9UJ  
X2;P61077;Q70EK8;Q8TEL6;O00231;O43255;Q9UJX6;Q92530;Q9UKT5;P63208;Q14999;O00762;Q9Y5  
A7;Q9UJX5;O75150;P25786;Q9UKC9;O14818;Q13309;Q8NEZ5;P28072;Q9UJX4;Q94952;P25787;O953  
76;Q86XK2;Q15011;P62256;P63146;Q13616;Q9NZJ0;Q9UM13;Q8TBB1;P51668;O60260;O15205;Q136  
17;Q15369;Q13501;Q96EP1;Q9Y5K5;Q9NXX8;Q8I WV8;P25789}
- 3181 Pathogen[ P0C206] interacts with 100 human  
partners: {Q9NQC7;Q8I WV3;Q9UKC9;Q9UJT9;Q13501;Q9NS56;Q86Y37;P62253;Q504Q3;Q92890;Q9NV  
W2;O43255;Q8IYW5;Q95376;Q13309;Q9HAU4;P25786;Q9Y5T5;Q5JXB2;P25788;Q93008;P68036;Q86X  
K2;Q96EP1;P25787;Q9UJX5;Q9UJX2;O75604;Q8IUQ4;Q05086;Q96J02;P60900;Q70EL1;P62837;P538  
04;Q9UKA2;Q93009;Q94952;O95155;O15205;Q13616;Q9HOE7;Q5VTR2;Q13620;Q9Y5K5;Q9Y4X5;P257  
89;P51965;Q14999;Q13619;Q13617;Q9UJX4;P60604;Q13618;Q8I WV7;Q9UNE7;P63208;Q14139;Q8TA  
A3;P49459;Q15011;O60260;Q8TEL6;Q8TBB1;P62256;P28066;Q86T82;O00762;O14818;P55072;Q8I W  
V8;Q9NZJ0;Q9UJX6;Q9NXX8;P28072;Q9UHP3;Q92530;P61077;Q93034;Q9Y3I1;P61086;Q9UM13;Q8NE  
Z5;Q9Y252;O76064;P46379;Q15369;Q9Y5A7;Q9UKT5;O95071;P51668;O00233;O75150;Q92560;Q9Y3  
C5;Q96PU4;O00231;P63146;Q8I WT3;Q70EK8}
- 3182 Pathogen[ P03363] interacts with 75 human  
partners: {Q14139;O95376;Q9UJX2;P46379;Q504Q3;Q9Y252;O15205;Q13309;Q96EP1;P51965;P606  
04;Q9Y5K5;P49459;P51784;O00762;Q9HAU4;Q9Y3C5;Q8NEZ5;Q9UJT9;Q92530;Q9UHP3;O75604;Q136  
18;O95155;Q5VTR2;Q13617;Q8IYW5;Q8TBB1;P63146;Q9UJX5;Q15369;Q5JXB2;Q05086;Q92890;Q9UJ  
X6;O75150;Q9UJX4;Q9UKA2;Q92560;Q13619;Q9Y3I1;O94952;Q9Y4X5;Q13616;Q14999;Q9UKT5;Q9UN  
E7;Q86T82;Q13620;P62256;P63279;Q9NXX8;O95071;Q86XK2;Q9BXU7;P51668;Q9UM13;P53804;Q8I W  
T3;P61077;Q8I WV8;Q9NVW2;Q93034;P62837;Q96PU4;Q9UKC9;O43255;Q9NZJ0;P63208;Q70EL1;Q930

08;A0AVT1;Q9Y5A7;P68036;Q8TEL6}

3183 [Cluster 290]GO:0008635+P biological\_process [name] activation of caspase activity by cytochrome c [def] "Upregulation of the activity of a caspase, any of a group of cysteine proteases involved in apoptosis, mediated by cytochrome c." [GOC

3184 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9NR28;O15304;P99999}

3185 Pathogen[ P0C214] interacts with 7 human partners:{P99999;P42574;O14727;P55210;Q9NR28;O15304;Q96NN9}

3186 Pathogen[ P03346] interacts with 7 human partners:{Q9NR28;O15304;P42574;P99999;P55211;P55210;O14727}

3187 Pathogen[ Q85601] interacts with 4 human partners:{P99999;O15304;Q9NR28;P55210}

3188 Pathogen[ P14079] interacts with 4 human partners:{O15304;P55210;Q9NR28;P99999}

3189 Pathogen[ P03383] interacts with 3 human partners:{O15304;P99999;Q9NR28}

3190 Pathogen[ P03410] interacts with 4 human partners:{Q9NR28;P99999;P55210;O15304}

3191 Pathogen[ P14075] interacts with 3 human partners:{O15304;Q9NR28;P99999}

3192 Pathogen[ P0C206] interacts with 5 human partners:{P99999;Q9NR28;P42574;P55210;O15304}

3193 Pathogen[ P03363] interacts with 4 human partners:{P99999;O15304;Q9NR28;P55210}

3194 [Cluster 291]GO:0006890+P biological\_process [name] retrograde vesicle-mediated transport, Golgi to ER [def] "The directed movement of substances from the Golgi back to the endoplasmic reticulum, mediated by vesicles bearing specific protein coats such as COPI or COG." [ISBN

3195 Pathogen[ Q2Q067] interacts with 10 human partners:{O14579;P83436;P48444;P61923;Q9UBF2;Q96JB2;P53618;P35606;Q9Y678;Q9H9E3}

3196 Pathogen[ P0C214] interacts with 10 human partners:{P61923;Q9H9E3;O14579;P53618;P35606;P48444;P83436;Q9UBF2;Q9Y678;Q96JB2}

3197 Pathogen[ P03346] interacts with 14 human partners:{Q96JB2;Q9Y678;P53618;O14579;P48444;P20340;Q9H9E3;Q9UBF2;P61923;P83436;Q96KG9;P49755;P35606;Q9NRD5}

3198 Pathogen[ Q85601] interacts with 12 human partners:{P48444;O14579;Q96JB2;P61923;P83436;Q9H9E3;Q9UBF2;Q8N6T3;Q9Y678;P53618;Q96KG9;P35606}

3199 Pathogen[ P14079] interacts with 12 human partners:{P61923;P83436;O15258;P35606;Q9Y678;P49755;Q9UBF2;P48444;O14579;Q9H9E3;Q96JB2;Q96KG9}

3200 Pathogen[ P03383] interacts with 7 human partners:{Q9H9E3;O14579;P53618;P83436;Q9Y678;Q96JB2;Q9UBF2}

3201 Pathogen[ P03410] interacts with 13 human partners:{Q96JB2;P48444;P35606;O14579;O15258;Q9NRD5;Q96KG9;Q9Y678;P53618;P61923;P83436;Q9H9E3;Q9UBF2}

3202 Pathogen[ P14075] interacts with 7 human partners:{Q96JB2;Q9H9E3;Q9UBF2;P53618;Q9Y678;P83436;O14579}

3203 Pathogen[ P0C206] interacts with 15 human partners:{O14579;Q9Y678;P83436;Q8N6T3;P53618;Q9H9E3;O15258;P49755;Q96JB2;Q96KG9;P35606;P48444;Q9UBF2;Q9NRD5;P61923}

3204 Pathogen[ P03363] interacts with 11 human partners:{P48444;Q9Y678;Q9H9E3;P83436;O14579;P53618;P61923;Q96KG9;P35606;Q9UBF2;Q96JB2}

3205 [Cluster 292]GO:0022613+P biological\_process [name] ribonucleoprotein complex biogenesis [def] "A cellular process that results in the biosynthesis of constituent macromolecules, assembly, and arrangement of constituent parts of a complex containing RNA and proteins. Includes the biosynthesis of the constituent RNA and protein molecules, and those macromolecular modifications that are involved in synthesis or assembly of the ribonucleoprotein complex." [GOC

3206 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96RS0}

3207 Pathogen[ P0C214] interacts with 1 human partners:{Q96RS0}

3208 Pathogen[ P03346] interacts with 1 human partners:{Q96RS0}

3209 Pathogen[ Q85601] interacts with 1 human partners:{Q96RS0}

3210 Pathogen[ P14079] interacts with 1 human partners:{Q96RS0}

3211 Pathogen[ P03383] interacts with 1 human partners:{Q96RS0}

3212 Pathogen[ P03410] interacts with 1 human partners:{Q96RS0}

3213 Pathogen[ P14075] interacts with 1 human partners:{Q96RS0}

3214 Pathogen[ P0C206] interacts with 1 human partners:{Q96RS0}

3215 Pathogen[ P03363] interacts with 1 human partners:{Q96RS0}

3216 [Cluster 293]GO:0032502+P biological\_process [name] developmental process [def] "A biological process whose specific outcome is the progression of an integrated living unit

3217 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9H0G5}

3218 Pathogen[ P0C214] interacts with 1 human partners:{Q9H0G5}

3219 Pathogen[ P03346] interacts with 1 human partners:{Q9H0G5}

3220 Pathogen[ Q85601] interacts with 1 human partners:{Q9H0G5}

3221 Pathogen[ P14079] interacts with 1 human partners:{Q9H0G5}

3222 Pathogen[ P03383] interacts with 1 human partners:{Q9H0G5}

3223 Pathogen[ P03410] interacts with 1 human partners:{Q9H0G5}

3224 Pathogen[ P14075] interacts with 1 human partners:{Q9H0G5}

3225 Pathogen[ P0C206] interacts with 1 human partners:{Q9H0G5}

3226 Pathogen[ P03363] interacts with 1 human partners:{Q9H0G5}

3227 [Cluster 294]GO:0046474+P biological\_process [name] glycerophospholipid biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of glycerophospholipids, any derivative of glycerophosphate that contains at least one O-acyl, O-alkyl, or O-alkenyl group attached to the glycerol residue." [ISBN

3228 Pathogen[ Q2Q067] interacts with 4 human partners:{Q96IF1;Q9UG56;Q92539;Q14693}

3229 Pathogen[ P0C214] interacts with 8 human partners:{Q8N335;P40939;Q9NPB8;Q92539;Q9BQK8;Q9UG56;Q14693;P21695}

3230 Pathogen[ P03346] interacts with 4 human partners:{Q96IF1;Q92539;Q9UG56;Q14693}

3231 Pathogen[ Q85601] interacts with 4 human partners:{Q9UG56;Q96IF1;Q92539;Q14693}

3232 Pathogen[ P14079] interacts with 9 human partners:{Q9BQK8;Q9NPB8;Q14693;Q32NB8;Q92539;Q9UG56;Q96IF1;Q9NZ20;P21695}

3233 Pathogen[ P03383] interacts with 2 human partners:{Q92539;Q14693}

3234 Pathogen[ P03410] interacts with 9 human partners:{Q9BQK8;Q14693;Q96IF1;Q9NPB8;Q9NZ20;Q92539;Q9UG56;P21695;Q16635}

3235 Pathogen[ P14075] interacts with 3 human partners:{Q92539;Q9UG56;Q14693}

3236 Pathogen[ P0C206] interacts with 6 human partners:{Q92539;Q96IF1;Q9UG56;Q9BQK8;Q9NPB8;Q14693}

3237 Pathogen[ P03363] interacts with 2 human partners:{Q92539;Q96IF1}

3238 [Cluster 295]GO:0032147+P biological\_process [name] activation of protein kinase activity [def] "Any process that initiates the activity of an inactive protein kinase." [GOC

3239 Pathogen[ Q2Q067] interacts with 4 human partners:{Q9H2P0;Q12959;Q9ULW0;Q9HAW4}

3240 Pathogen[ P0C214] interacts with 4 human partners:{Q9HAW4;Q9ULW0;Q12959;Q9H2P0}

3241 Pathogen[ P03346] interacts with 5 human partners:{Q9H2P0;Q9HAW4;Q9ULW0;Q9H8V3;Q12959}

3242 Pathogen[ Q85601] interacts with 4 human partners:{Q9ULW0;Q9HAW4;Q9H2P0;Q12959}

3243 Pathogen[ P14079] interacts with 4 human partners:{Q9ULW0;Q9H2P0;Q9HAW4;Q9H8V3}

3244 Pathogen[ P03383] interacts with 2 human partners:{Q9HAW4;Q9ULW0}

3245 Pathogen[ P03410] interacts with 4 human partners:{Q12959;Q9HAW4;Q9ULW0;Q9H8V3}

3246 Pathogen[ P14075] interacts with 2 human partners:{Q9ULW0;Q9HAW4}

3247 Pathogen[ P0C206] interacts with 5 human partners:{Q9ULW0;Q9H8V3;Q9H2P0;Q9HAW4;Q12959}

3248 Pathogen[ P03363] interacts with 4 human partners:{Q12959;Q9HAW4;Q9H2P0;Q9ULW0}

3249 [Cluster 296]GO:0014065+P biological\_process [name] phosphatidylinositol 3-kinase cascade [def] "A series of reactions, mediated by the intracellular phosphatidylinositol 3-kinase (PI3K). PI3K cascades lie downstream of many cell surface receptor linked signaling pathways and regulate numerous cellular functions." [GOC

3250 Pathogen[ Q2Q067] interacts with 4 human partners:{Q8WYR1;Q9P242;P27986;Q6ZVC0}

3251 Pathogen[ P0C214] interacts with 4 human partners:{Q9P242;Q8WYR1;Q6ZVC0;P27986}

3252 Pathogen[ P03346] interacts with 3 human partners:{Q8WYR1;Q9HB21;P27986}

3253 Pathogen[ Q85601] interacts with 5 human partners:{Q9P242;P27986;Q9HB21;Q6ZVC0;Q8WYR1}

3254 Pathogen[ P14079] interacts with 4 human partners:{Q8WYR1;Q9P242;Q9HB21;Q6ZVC0}

3255 Pathogen[ P03383] interacts with 4 human partners:{P27986;Q8WYR1;Q6ZVC0;Q9P242}

3256 Pathogen[ P03410] interacts with 5 human partners:{P27986;Q8WYR1;Q6ZVC0;Q9HB21;Q9P242}

3257 Pathogen[ P14075] interacts with 4 human partners:{Q8WYR1;Q6ZVC0;Q9P242;P27986}

3258 Pathogen[ P0C206] interacts with 5 human partners:{P27986;Q9HB21;Q9P242;Q6ZVC0;Q8WYR1}

3259 Pathogen[ P03363] interacts with 2 human partners:{Q8WYR1;P27986}

3260 [Cluster 297]GO:0006112+P biological\_process [name] energy reserve metabolic process [def] "The chemical reactions and pathways by which a cell derives energy from stored compounds such as fats or glycogen." [GOC

3261 Pathogen[ Q2Q067] interacts with 7 human partners:{P01106;P29966;P37837;P11166;Q7Z2X4;P62879;Q9NP71}

3262 Pathogen[ P0C214] interacts with 12 human partners:{P29966;P53396;P29401;Q7Z2X4;P11166;P11168;P37837;Q9UH92;Q9NP71;P62879;P16118;P01106}

3263 Pathogen[ P03346] interacts with 8 human partners:{Q7Z2X4;P62879;P37837;P01106;Q9NP71;P11166;P29966;Q9UH92}

3264 Pathogen[ Q85601] interacts with 10 human partners:{P01106;P62879;P11168;P37837;Q7Z2X4;Q9NP71;P16118;Q9UH92;P11166;P29966}

3265 Pathogen[ P14079] interacts with 10 human partners:{P24588;P29401;P11166;P29966;P01106;Q9UH92;Q7Z2X4;P81277;Q9NP71;P37837}

3266 Pathogen[ P03383] interacts with 7 human partners:{P62879;Q9UH92;P01106;P37837;Q9NP71;P11168;P29966}

3267 Pathogen[ P03410] interacts with 13 human partners:{P37837;P11166;P01106;P16118;P05141;P11168;Q7Z2X4;Q9NP71;Q9UH92;P81277;P62879;P29966;P24588}

3268 Pathogen[ P14075] interacts with 8 human partners:{P62879;Q9UH92;P01106;Q9NP71;P16118;P29966;P11168;P37837}

3269 Pathogen[ P0C206] interacts with 11 human partners:{Q7Z2X4;Q9NP71;Q9UH92;P62879;P11166;P11168;P16118;P01106;P37837;P29966;P29401}

3270 Pathogen[ P03363] interacts with 7 human partners:{P62879;Q9UH92;P01106;P37837;P29966;Q9NP71;P11166}

3271 [Cluster 298]GO:0060561+P biological\_process [name] apoptosis involved in morphogenesis [def] "The process of apoptosis that contributes to the shaping of an anatomical structure." [GOC

3272 Pathogen[ Q2Q067] interacts with 3 human partners:{Q14160;P02511;P02489}

3273 Pathogen[ P0C214] interacts with 3 human partners:{P02489;P02511;Q14160}

3274 Pathogen[ P03346] interacts with 3 human partners:{P02489;P02511;Q14160}

3275 Pathogen[ Q85601] interacts with 3 human partners:{P02489;P02511;Q14160}

3276 Pathogen[ P14079] interacts with 2 human partners:{P02511;P02489}

3277 Pathogen[ P03383] interacts with 2 human partners:{Q14160;P02511}

3278 Pathogen[ P03410] interacts with 3 human partners:{Q14160;P02489;P02511}

3279 Pathogen[ P14075] interacts with 2 human partners:{Q14160;P02511}

3280 Pathogen[ P0C206] interacts with 3 human partners:{Q14160;P02511;P02489}

3281 Pathogen[ P03363] interacts with 2 human partners:{Q14160;P02489}

3282 [Cluster 299]GO:0035264+P biological\_process [name] multicellular organism growth [def] "The increase in size or mass of an entire multicellular organism, as opposed to cell growth." [GOC

3283 Pathogen[ Q2Q067] interacts with 11 human partners:{Q9H2K2;A6NFD8;Q8WUF5;Q8N5D0;P20719;Q15468;Q92830;Q14865;P60953;O95613;P28715}

3284 Pathogen[ P0C214] interacts with 10 human partners:{Q14865;Q8N5D0;Q8WUF5;P60953;P28715;Q15468;Q9H2K2;Q92830;Q6Y7W6;O95613}

3285 Pathogen[ P03346] interacts with 17 human partners:{P28715;A6NFD8;Q9Y5W3;P07992;Q16559;P60953;Q99767;P20719;Q92830;Q9H2K2;Q8N5D0;P51587;Q8WUF5;Q14865;Q9HB21;O95613;Q15468}

3286 Pathogen[ Q85601] interacts with 13 human partners:{Q6Y7W6;Q99767;P28715;Q92830;Q9H2K2;A6NFD8;Q9HB21;Q14865;Q8WUF5;P60953;O95613;Q8N5D0;P51587}

3287 Pathogen[ P14079] interacts with 16 human partners:{Q8N5D0;P28715;Q92830;Q8WUF5;Q6Y7W6;Q14865;P51587;Q9H2K2;P35611;Q15468;Q9Y5W3;O95613;Q9HB21;A6NFD8;P07992;Q99767}

3288 Pathogen[ P03383] interacts with 6 human partners:{P60953;Q15468;Q92830;Q8WUF5;O95613;Q8N5D0}

3289 Pathogen[ P03410] interacts with 17 human partners:{Q92830;P07992;Q15468;Q99767;A6NFD8;Q9HB21;P28715;P51587;Q8N5D0;P60953;Q6Y7W6;Q9H2K2;O95613;Q14865;P35611;Q8WUF5;Q16559}

3290 Pathogen[ P14075] interacts with 6 human partners:{P60953;Q8N5D0;Q8WUF5;Q15468;O95613;Q92830}

3291 Pathogen[ P0C206] interacts with 16 human partners:{Q8WUF5;Q15468;P28715;Q92830;P51587;A6NFD8;P07992;Q6Y7W6;Q99767;O95613;P60953;Q9HB21;Q14865;Q8N5D0;P20719;Q9H2K2}

3292 Pathogen[ P03363] interacts with 11 human partners:{Q14865;Q15468;Q8N5D0;P20719;O95613;Q8WUF5;Q9H2K2;Q92830;P60953;Q99767;A6NFD8}

3293 [Cluster 300]GO:0007566+P biological\_process [name] embryo implantation [def] "Attachment of the blastocyst to the uterine lining." [GOC

3294 Pathogen[ Q2Q067] interacts with 6 human partners:{P47914;A6NGQ2;Q9H9Y6;Q15561;P59047;Q12816}

3295 Pathogen[ P0C214] interacts with 6 human partners:{Q9H9Y6;Q12816;Q15561;P47914;P07093;P59047}

3296 Pathogen[ P03346] interacts with 7 human partners:{Q13886;P59047;Q9H9Y6;Q12816;Q15561;P47914;A6NGQ2}

3297 Pathogen[ Q85601] interacts with 6 human partners:{Q9H9Y6;P47914;Q12816;P07093;Q15561;P59047}

3298 Pathogen[ P14079] interacts with 7 human partners:{Q15561;Q12816;A6NGQ2;Q96GC9;P47914;P59047;Q9H9Y6}

3299 Pathogen[ P03383] interacts with 5 human partners:{Q15561;Q9H9Y6;P47914;A6NGQ2;Q12816}

3300 Pathogen[ P03410] interacts with 7 human partners:{Q96GC9;A6NGQ2;P59047;Q15561;Q12816;P47914;Q9H9Y6}

3301 Pathogen[ P14075] interacts with 5 human partners:{Q12816;Q15561;A6NGQ2;Q9H9Y6;P47914}

3302 Pathogen[ P0C206] interacts with 6 human partners:{A6NGQ2;P59047;Q12816;Q9H9Y6;P47914;Q15561}

3303 Pathogen[ P03363] interacts with 6 human partners:{A6NGQ2;Q9H9Y6;P59047;Q15561;P47914;Q12816}

3304 [Cluster 301]GO:0042795+P biological\_process [name] snRNA transcription from RNA polymerase II promoter [def] "The synthesis of small nuclear RNA (snRNA) from a DNA template by RNA Polymerase II (Pol II), originating at a Pol II promoter." [GOC

3305 Pathogen[ Q2Q067] interacts with 1 human partners:{Q5SXM2}

3306 Pathogen[ P0C214] interacts with 1 human partners:{Q5SXM2}

3307 Pathogen[ P03346] interacts with 1 human partners:{Q5SXM2}

3308 Pathogen[ Q85601] interacts with 1 human partners:{Q5SXM2}

3309 Pathogen[ P14079] interacts with 1 human partners:{Q5SXM2}

3310 Pathogen[ P03383] interacts with 1 human partners:{Q5SXM2}

3311 Pathogen[ P03410] interacts with 1 human partners:{Q5SXM2}

3312 Pathogen[ P14075] interacts with 1 human partners:{Q5SXM2}



3313 Pathogen[ P0C206] interacts with 1 human partners:{Q5SXM2}  
3314 Pathogen[ P03363] interacts with 1 human partners:{Q5SXM2}  
3315 [Cluster 302]GO:0006384+P biological\_process [name] transcription initiation from RNA polymerase III promoter [def] "Any process involved in the assembly of the RNA polymerase III preinitiation complex (PIC) at an RNA polymerase III promoter region of a DNA template, resulting in the subsequent synthesis of RNA from that promoter. The initiation phase includes PIC assembly and the formation of the first few bonds in the RNA chain, including abortive initiation, which occurs when the first few nucleotides are repeatedly synthesized and then released. Promoter clearance, or release, is the transition between the initiation and elongation phases of transcription." [GOC  
3316 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9UKN8;Q92994;Q92994}  
3317 Pathogen[ P0C214] interacts with 3 human partners:{Q9UKN8;Q92994;Q92994}  
3318 Pathogen[ P03346] interacts with 3 human partners:{Q9UKN8;Q92994;Q92994}  
3319 Pathogen[ Q85601] interacts with 3 human partners:{Q9UKN8;Q92994;Q92994}  
3320 Pathogen[ P14079] interacts with 3 human partners:{Q92994;Q9UKN8;Q92994}  
3321 Pathogen[ P03383] interacts with 3 human partners:{Q9UKN8;Q92994;Q92994}  
3322 Pathogen[ P03410] interacts with 3 human partners:{Q92994;Q9UKN8;Q92994}  
3323 Pathogen[ P14075] interacts with 3 human partners:{Q9UKN8;Q92994;Q92994}  
3324 Pathogen[ P0C206] interacts with 3 human partners:{Q9UKN8;Q92994;Q92994}  
3325 Pathogen[ P03363] interacts with 2 human partners:{Q9UKN8;Q92994;Q92994}  
3326 [Cluster 303]GO:0006833+P biological\_process [name] water transport [def] "The directed movement of water (H2O) into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore." [GOC  
3327 Pathogen[ Q2Q067] interacts with 1 human partners:{Q7L804}  
3328 Pathogen[ P0C214] interacts with 1 human partners:{Q7L804}  
3329 Pathogen[ P03346] interacts with 3 human partners:{Q86UT5;Q7L804;Q9ULV0}  
3330 Pathogen[ Q85601] interacts with 1 human partners:{Q7L804}  
3331 Pathogen[ P14079] interacts with 3 human partners:{Q7L804;Q8NBQ7;Q86UT5}  
3332 Pathogen[ P03383] interacts with 1 human partners:{Q7L804}  
3333 Pathogen[ P03410] interacts with 4 human partners:{Q86UT5;Q7L804;Q9ULV0;Q13336}  
3334 Pathogen[ P14075] interacts with 1 human partners:{Q7L804}  
3335 Pathogen[ P0C206] interacts with 2 human partners:{Q86UT5;Q7L804}  
3336 Pathogen[ P03363] interacts with 2 human partners:{Q7L804;Q86UT5}  
3337 [Cluster 304]GO:0006353+P biological\_process [name] transcription termination, DNA-dependent [def] "The cellular process that completes DNA-dependent transcription, the formation of phosphodiester bonds ceases, the RNA-DNA hybrid dissociates, and RNA polymerase releases the DNA." [GOC  
3338 Pathogen[ Q2Q067] interacts with 4 human partners:{Q99551;Q6NZI2;Q9UNY4;Q15361}  
3339 Pathogen[ P0C214] interacts with 4 human partners:{Q15361;Q6NZI2;Q9UNY4;Q99551}  
3340 Pathogen[ P03346] interacts with 4 human partners:{Q6NZI2;Q15361;Q99551;Q9UNY4}  
3341 Pathogen[ Q85601] interacts with 4 human partners:{Q99551;Q6NZI2;Q15361;Q9UNY4}  
3342 Pathogen[ P14079] interacts with 4 human partners:{Q9UNY4;Q6NZI2;Q15361;Q99551}  
3343 Pathogen[ P03383] interacts with 4 human partners:{Q6NZI2;Q15361;Q99551;Q9UNY4}  
3344 Pathogen[ P03410] interacts with 4 human partners:{Q6NZI2;Q9UNY4;Q15361;Q99551}  
3345 Pathogen[ P14075] interacts with 4 human partners:{Q9UNY4;Q6NZI2;Q99551;Q15361}  
3346 Pathogen[ P0C206] interacts with 4 human partners:{Q15361;Q9UNY4;Q99551;Q6NZI2}  
3347 Pathogen[ P03363] interacts with 4 human partners:{Q9UNY4;Q6NZI2;Q15361;Q99551}  
3348 [Cluster 305]GO:0060215+P biological\_process [name] primitive hemopoiesis [def] "A first transient wave of blood cell production that, in vertebrates, gives rise to erythrocytes (red blood cells) and myeloid cells." [GOC  
3349 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13769}  
3350 Pathogen[ P0C214] interacts with 1 human partners:{Q13769}  
3351 Pathogen[ P03346] interacts with 1 human partners:{Q13769}  
3352 Pathogen[ Q85601] interacts with 1 human partners:{Q13769}  
3353 Pathogen[ P14079] interacts with 1 human partners:{Q13769}  
3354 Pathogen[ P03383] interacts with 1 human partners:{Q13769}  
3355 Pathogen[ P03410] interacts with 1 human partners:{Q13769}  
3356 Pathogen[ P14075] interacts with 1 human partners:{Q13769}  
3357 Pathogen[ P0C206] interacts with 1 human partners:{Q13769}  
3358 Pathogen[ P03363] interacts with 1 human partners:{Q13769}  
3359 [Cluster 306]GO:0006346+P biological\_process [name] methylation-dependent chromatin silencing [def] "Repression of transcription by methylation of DNA, leading to the formation of heterochromatin." [GOC  
3360 Pathogen[ Q2Q067] interacts with 4 human partners:{Q9Y6K1;Q9UBC3;Q95983;Q9HBD4}  
3361 Pathogen[ P0C214] interacts with 3 human partners:{Q9HBD4;Q9Y6K1;Q95983}  
3362 Pathogen[ P03346] interacts with 5 human partners:{Q9NRZ9;Q9Y6K1;Q9HBD4;Q95983;Q9UBC3}  
3363 Pathogen[ Q85601] interacts with 4 human partners:{Q95983;Q9Y6K1;Q9HBD4;Q9UBC3}  
3364 Pathogen[ P14079] interacts with 3 human partners:{Q9Y6K1;Q9UBC3;Q95983}  
3365 Pathogen[ P03383] interacts with 3 human partners:{Q9HBD4;Q9Y6K1;Q95983}  
3366 Pathogen[ P03410] interacts with 4 human partners:{Q95983;Q9UBC3;Q9Y6K1;Q9HBD4}  
3367 Pathogen[ P14075] interacts with 3 human partners:{Q9Y6K1;Q9HBD4;Q95983}  
3368 Pathogen[ P0C206] interacts with 5 human partners:{Q9Y6K1;Q95983;Q9NRZ9;Q9HBD4;Q9UBC3}  
3369 Pathogen[ P03363] interacts with 4 human partners:{Q9Y6K1;Q9HBD4;Q95983;Q9UBC3}  
3370 [Cluster 307]GO:0007094+P biological\_process [name] mitotic cell cycle spindle

assembly checkpoint [def] "A cell cycle checkpoint that delays the metaphase/anaphase transition of a mitotic nuclear division until the spindle is correctly assembled and chromosomes are attached to the spindle." [GOC

3371 Pathogen[ Q2Q067] interacts with 23 human partners: {P49454;Q9UJX3;Q9UJX5;O00762;P54274;Q13257;O43684;Q9NYG5;Q9H1A4;P12270;P51965;Q9UJX2;Q9UM13;Q12834;P51668;Q969U7;Q8NHZ8;Q9UJX4;Q9Y6D9;Q9UI95;Q9UJX6;P30260;Q13042}

3372 Pathogen[ P0C214] interacts with 23 human partners: {Q9UJX6;O43684;Q13257;O00762;Q9UJX5;Q9UJX2;Q9UI95;P51965;Q9H1A4;Q8NHZ8;Q12834;Q969U7;Q9UJX4;Q9UJX3;P12270;P51668;P30260;P49454;Q9NYG5;Q9UM13;Q9Y6D9;P54274;Q13042}

3373 Pathogen[ P03346] interacts with 23 human partners: {Q9Y6D9;Q969U7;P12270;O43684;P54274;Q9UM13;Q9NYG5;Q9UI95;P51668;Q12834;Q9UJX6;Q13042;P51965;Q9UJX5;O00762;Q9UJX2;Q9UJX3;Q8NHZ8;Q9H1A4;Q9UJX4;P30260;Q13257;P49454}

3374 Pathogen[ Q85601] interacts with 23 human partners: {Q9UJX2;P49454;Q9UJX6;Q9UI95;Q8NHZ8;Q9H1A4;P12270;P51668;Q12834;Q13257;Q969U7;Q13042;Q9UJX5;P51965;Q9UM13;Q9Y6D9;Q9NYG5;O00762;Q9UJX3;Q9UJX4;P30260;O43684;P54274}

3375 Pathogen[ P14079] interacts with 20 human partners: {P54274;P51965;Q9UJX3;Q9H1A4;Q9UJX5;Q587J8;Q9NYG5;P51668;Q8NHZ8;P12270;Q969U7;Q9UM13;Q13042;Q13257;Q9UJX6;P30260;P49454;O00762;Q9UJX4;O43684}

3376 Pathogen[ P03383] interacts with 23 human partners: {Q13257;Q8NHZ8;P49454;Q9NYG5;P51965;Q9UJX6;P12270;Q9UI95;O00762;Q9H1A4;Q13042;Q12834;Q9UM13;O43684;Q9UJX4;Q9UJX5;Q9UJX2;Q969U7;P30260;Q9UJX3;P54274;P51668;Q9Y6D9}

3377 Pathogen[ P03410] interacts with 22 human partners: {Q9UI95;O43684;Q9H1A4;P54274;P51965;Q9UJX4;Q9NYG5;Q9UM13;Q8NHZ8;P49454;Q969U7;P12270;Q13042;P51668;Q9UJX5;Q12834;P30260;Q9UJX3;O00762;Q9UJX6;Q587J8;Q13257}

3378 Pathogen[ P14075] interacts with 23 human partners: {Q13042;Q9Y6D9;P51965;Q13257;Q969U7;O43684;Q9UI95;P12270;Q9UJX2;Q9UJX6;Q8NHZ8;P54274;O00762;Q9UJX5;Q9UJX4;Q9H1A4;Q9UM13;P30260;Q9UJX3;P51668;Q9NYG5;P49454;Q12834}

3379 Pathogen[ P0C206] interacts with 23 human partners: {Q969U7;Q9UJX3;Q9Y6D9;Q9UJX5;Q9UJX2;P49454;Q13257;P30260;P51965;P54274;Q9H1A4;Q9NYG5;Q9UJX4;O00762;Q9UJX6;O43684;Q9UM13;Q13042;P51668;Q12834;Q9UI95;Q8NHZ8;P12270}

3380 Pathogen[ P03363] interacts with 23 human partners: {Q9UJX2;Q9NYG5;Q13042;P49454;P51965;Q9Y6D9;P12270;Q969U7;O00762;Q8NHZ8;Q9UJX3;Q9UJX5;P30260;Q9UJX6;Q9UJX4;O43684;P54274;Q9H1A4;Q9UI95;Q13257;P51668;Q9UM13;Q12834}

3381 [Cluster 308]GO:0071344+P biological\_process [name] diphosphate metabolic process [def] "The chemical reactions and pathways involving diphosphate, the anion or salt of diphosphoric acid." [CHEBI

3382 Pathogen[ Q2Q067] interacts with 2 human partners: {Q9H2U2;Q15181}

3383 Pathogen[ P0C214] interacts with 1 human partners: {Q15181}

3384 Pathogen[ P03346] interacts with 2 human partners: {Q9H2U2;Q15181}

3385 Pathogen[ Q85601] interacts with 2 human partners: {Q9H2U2;Q15181}

3386 Pathogen[ P14079] interacts with 2 human partners: {Q9H2U2;Q15181}

3387 Pathogen[ P03383] interacts with 2 human partners: {Q9H2U2;Q15181}

3388 Pathogen[ P03410] interacts with 2 human partners: {Q9H2U2;Q15181}

3389 Pathogen[ P14075] interacts with 2 human partners: {Q9H2U2;Q15181}

3390 Pathogen[ P0C206] interacts with 2 human partners: {Q9H2U2;Q15181}

3391 Pathogen[ P03363] interacts with 2 human partners: {Q9H2U2;Q15181}

3392 [Cluster 309]GO:0006813+P biological\_process [name] potassium ion transport [def] "The directed movement of potassium ions (K+) into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore." [GOC

3393 Pathogen[ Q2Q067] interacts with 3 human partners: {O75351;P24941;P46527}

3394 Pathogen[ P0C214] interacts with 3 human partners: {O75351;P46527;P24941}

3395 Pathogen[ P03346] interacts with 3 human partners: {P24941;O75351;P46527}

3396 Pathogen[ Q85601] interacts with 3 human partners: {O75351;P24941;P46527}

3397 Pathogen[ P14079] interacts with 3 human partners: {P46527;O75351;Q9H6F2}

3398 Pathogen[ P03383] interacts with 2 human partners: {P46527;P24941}

3399 Pathogen[ P03410] interacts with 4 human partners: {P46527;O75351;Q9H6F2;P24941}

3400 Pathogen[ P14075] interacts with 2 human partners: {P24941;P46527}

3401 Pathogen[ P0C206] interacts with 3 human partners: {P46527;O75351;P24941}

3402 Pathogen[ P03363] interacts with 2 human partners: {P24941;O75351}

3403 [Cluster 310]GO:0030579+P biological\_process [name] ubiquitin-dependent SMAD protein catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of SMAD signaling proteins by ubiquitination and targeting to the proteasome." [GOC

3404 Pathogen[ Q2Q067] interacts with 3 human partners: {Q9HAU4;Q6ZNA4;Q9UNE7}

3405 Pathogen[ P0C214] interacts with 4 human partners: {Q9HAU4;Q9HCE7;Q6ZNA4;Q9UNE7}

3406 Pathogen[ P03346] interacts with 3 human partners: {Q9HAU4;Q9UNE7;Q6ZNA4}

3407 Pathogen[ Q85601] interacts with 3 human partners: {Q9HAU4;Q6ZNA4;Q9UNE7}

3408 Pathogen[ P14079] interacts with 3 human partners: {Q6ZNA4;Q9HAU4;O43294}

3409 Pathogen[ P03383] interacts with 1 human partners:{Q6ZNA4}  
3410 Pathogen[ P03410] interacts with 3 human partners:{Q6ZNA4;O43294;Q9UNE7}  
3411 Pathogen[ P14075] interacts with 1 human partners:{Q6ZNA4}  
3412 Pathogen[ P0C206] interacts with 4 human partners:{Q9HAU4;Q6ZNA4;Q9UNE7;O43294}  
3413 Pathogen[ P03363] interacts with 3 human partners:{Q9HAU4;Q6ZNA4;Q9UNE7}  
3414 [Cluster 311]GO:0060395+P biological\_process [name] SMAD protein signal transduction [def] "The cascade of processes by which a signal interacts with a receptor, causing a change in the activity of a SMAD protein, and ultimately effecting a change in the functioning of the cell." [GOC  
3415 Pathogen[ Q2Q067] interacts with 6 human partners:{P01100;Q13485;Q86UL8;Q99966;P12755;P20823}  
3416 Pathogen[ P0C214] interacts with 5 human partners:{P01100;Q99966;Q13485;P12755;P05412}  
3417 Pathogen[ P03346] interacts with 6 human partners:{P05412;Q99966;P20823;Q86UL8;Q13485;P01100}  
3418 Pathogen[ Q85601] interacts with 7 human partners:{Q99966;Q86UL8;P12755;P01100;P05412;P20823;Q13485}  
3419 Pathogen[ P14079] interacts with 5 human partners:{P12755;Q99966;Q86UL8;P05412;P01100}  
3420 Pathogen[ P03383] interacts with 3 human partners:{Q13485;P01100;P05412}  
3421 Pathogen[ P03410] interacts with 6 human partners:{P12755;P01100;Q13485;P05412;Q86UL8;Q99966}  
3422 Pathogen[ P14075] interacts with 3 human partners:{P05412;Q13485;P01100}  
3423 Pathogen[ P0C206] interacts with 7 human partners:{P05412;P12755;P01100;P20823;Q13485;Q99966;Q86UL8}  
3424 Pathogen[ P03363] interacts with 4 human partners:{Q13485;Q86UL8;P05412;P01100}  
3425 [Cluster 312]GO:0006903+P biological\_process [name] vesicle targeting [def] "The process in which vesicles are directed to specific destination membranes. Targeting involves coordinated interactions among cytoskeletal elements (microtubules or actin filaments), motor proteins, molecules at the vesicle membrane and target membrane surfaces, and vesicle cargo." [GOC  
3426 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9Y6Q5;O95721;O00161}  
3427 Pathogen[ P0C214] interacts with 3 human partners:{O95721;Q9Y6Q5;O00161}  
3428 Pathogen[ P03346] interacts with 4 human partners:{Q13190;O00161;O95721;Q9Y6Q5}  
3429 Pathogen[ Q85601] interacts with 3 human partners:{Q9Y6Q5;O00161;O95721}  
3430 Pathogen[ P14079] interacts with 3 human partners:{Q9Y6Q5;O95721;Q12912}  
3431 Pathogen[ P03383] interacts with 1 human partners:{O00161}  
3432 Pathogen[ P03410] interacts with 5 human partners:{Q9Y6Q5;Q13190;Q12912;O95721;O00161}  
3433 Pathogen[ P14075] interacts with 1 human partners:{O00161}  
3434 Pathogen[ P0C206] interacts with 4 human partners:{Q9Y6Q5;O95721;O00161;Q12912}  
3435 Pathogen[ P03363] interacts with 2 human partners:{O95721;O00161}  
3436 [Cluster 313]GO:0014047+P biological\_process [name] glutamate secretion [def] "The controlled release of glutamate by a cell or group of cells. The glutamate is the most abundant excitatory neurotransmitter in the nervous system." [GOC  
3437 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9UI32;O94925}  
3438 Pathogen[ P0C214] interacts with 3 human partners:{Q9UM54;Q9UI32;O94925}  
3439 Pathogen[ P03346] interacts with 3 human partners:{O14908;Q9UI32;O94925}  
3440 Pathogen[ Q85601] interacts with 3 human partners:{O94925;Q9UM54;Q9UI32}  
3441 Pathogen[ P14079] interacts with 5 human partners:{O14810;Q9UM54;O94925;Q9UI32;O14908}  
3442 Pathogen[ P03383] interacts with 1 human partners:{O94925}  
3443 Pathogen[ P03410] interacts with 5 human partners:{O14810;O14908;O94925;Q9UM54;Q9UI32}  
3444 Pathogen[ P14075] interacts with 1 human partners:{O94925}  
3445 Pathogen[ P0C206] interacts with 4 human partners:{Q9UM54;O14908;Q9UI32;O94925}  
3446 Pathogen[ P03363] interacts with 3 human partners:{O14908;O94925;Q9UI32}  
3447 [Cluster 314]GO:0032270+P biological\_process [name] positive regulation of cellular protein metabolic process [def] "Any process that activates or increases the frequency, rate or extent of the chemical reactions and pathways involving a protein, occurring at the level of an individual cell." [GOC  
3448 Pathogen[ Q2Q067] interacts with 4 human partners:{P31749;Q96T88;P55055;P25963}  
3449 Pathogen[ P0C214] interacts with 3 human partners:{Q96T88;P25963;P31749}  
3450 Pathogen[ P03346] interacts with 4 human partners:{P25963;P31749;P55055;Q96T88}  
3451 Pathogen[ Q85601] interacts with 4 human partners:{P31749;P55055;Q96T88;P25963}  
3452 Pathogen[ P14079] interacts with 1 human partners:{P55055}  
3453 Pathogen[ P03383] interacts with 2 human partners:{P31749;P25963}  
3454 Pathogen[ P03410] interacts with 2 human partners:{P31749;P25963}  
3455 Pathogen[ P14075] interacts with 2 human partners:{P25963;P31749}  
3456 Pathogen[ P0C206] interacts with 4 human partners:{P31749;P25963;P55055;Q96T88}  
3457 Pathogen[ P03363] interacts with 3 human partners:{P25963;P31749;Q96T88}  
3458 [Cluster 315]GO:0006385+P biological\_process [name] transcription elongation from RNA polymerase III promoter [def] "The extension of an RNA molecule after transcription initiation and promoter clearance at an RNA polymerase III promoter by the addition of ribonucleotides catalyzed by RNA polymerase III." [GOC  
3459 Pathogen[ Q2Q067] interacts with 15 human

3460 partners: {P52434;P19388;P61218;Q9BUI4;Q9NVU0;P62875;O15318;P53803;Q9Y535;Q9Y250;P05423;O14802;Q9H1D9;Q9Y2S0;O15160}  
Pathogen[ P0C214] interacts with 16 human

3461 partners: {Q9BUI4;P53803;Q9NVU0;Q9H1D9;Q9Y2S0;P61218;P05423;Q9Y250;O15318;Q9NW08;P62875;O15160;Q9Y535;P52434;P19388;O14802}  
Pathogen[ P03346] interacts with 15 human

3462 partners: {Q9NVU0;P52434;P05423;P53803;P61218;O15318;P19388;Q9H1D9;O15160;Q9Y250;Q9Y535;Q9BUI4;O14802;Q9Y2S0;P62875}  
Pathogen[ Q85601] interacts with 17 human

3463 partners: {Q9Y250;Q9H1D9;Q9Y535;Q9BUI4;Q9Y2Y1;P53803;Q9Y2S0;P61218;P05423;Q9NVU0;P19388;Q9NW08;P52434;O15160;O14802;O15318;P62875}  
Pathogen[ P14079] interacts with 18 human

3464 partners: {Q9Y2S0;P62875;Q9NW08;P52434;P61218;Q9Y250;P53803;P19388;Q9BUI4;P05423;O15160;Q9Y2Y1;Q9BT43;Q9NVU0;O14802;O15318;Q9H1D9;Q9Y535}  
Pathogen[ P03383] interacts with 11 human

3465 partners: {P53803;Q9Y535;P52434;P61218;Q9H1D9;Q9NVU0;P62875;O15318;P19388;O14802;Q9Y250}  
Pathogen[ P03410] interacts with 18 human

3466 partners: {Q9BT43;O15318;Q9Y535;Q9NW08;P53803;Q9Y2S0;P62875;P05423;P61218;Q9Y2Y1;O15160;P52434;Q9H1D9;Q9Y250;Q9NVU0;P19388;O14802;Q9BUI4}  
Pathogen[ P14075] interacts with 11 human

3467 partners: {Q9NVU0;P19388;P61218;Q9Y250;Q9H1D9;Q9Y535;P62875;P52434;O14802;O15318;P53803}  
Pathogen[ P0C206] interacts with 18 human

3468 partners: {P62875;Q9BT43;P19388;P61218;Q9NW08;Q9BUI4;O15318;Q9Y535;P05423;Q9NVU0;P53803;Q9Y2S0;O14802;Q9Y2Y1;Q9H1D9;Q9Y250;P52434;O15160}  
Pathogen[ P03363] interacts with 12 human

3469 partners: {Q9Y535;P19388;Q9NVU0;P61218;Q9H1D9;Q9Y250;P05423;O15318;P53803;P52434;Q9Y2S0;O15160}  
[Cluster 316]GO:0071559+P biological\_process [name] response to transforming growth factor beta stimulus [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a transforming growth factor beta stimulus." [GOC

3470 Pathogen[ Q2Q067] interacts with 2 human partners: {Q13485;Q99966}  
3471 Pathogen[ P0C214] interacts with 2 human partners: {Q99966;Q13485}  
3472 Pathogen[ P03346] interacts with 2 human partners: {Q99966;Q13485}  
3473 Pathogen[ Q85601] interacts with 2 human partners: {Q99966;Q13485}  
3474 Pathogen[ P14079] interacts with 1 human partners: {Q99966}  
3475 Pathogen[ P03383] interacts with 1 human partners: {Q13485}  
3476 Pathogen[ P03410] interacts with 2 human partners: {Q13485;Q99966}  
3477 Pathogen[ P14075] interacts with 1 human partners: {Q13485}  
3478 Pathogen[ P0C206] interacts with 2 human partners: {Q13485;Q99966}  
3479 Pathogen[ P03363] interacts with 1 human partners: {Q13485}

3480 [Cluster 317]GO:0048102+P biological\_process [name] autophagic cell death [def] "A form of programmed cell death that is accompanied by macroautophagy, which is characterized by the sequestration of cytoplasmic material within autophagosomes for bulk degradation by lysosomes. Autophagic cell death is characterized by lack of chromatin condensation, massive vacuolization of the cytoplasm, and accumulation of (double-membraned) autophagic vacuoles, with little or no uptake by phagocytic cells." [GOC

3481 Pathogen[ Q2Q067] interacts with 3 human partners: {Q12983;P46527;Q96A56}  
3482 Pathogen[ P0C214] interacts with 3 human partners: {P46527;Q12983;Q96A56}  
3483 Pathogen[ P03346] interacts with 4 human partners: {P55273;Q96A56;Q12983;P46527}  
3484 Pathogen[ Q85601] interacts with 4 human partners: {P55273;Q96A56;Q12983;P46527}  
3485 Pathogen[ P14079] interacts with 4 human partners: {Q96A56;P55273;Q12983;P46527}  
3486 Pathogen[ P03383] interacts with 3 human partners: {Q96A56;Q12983;P46527}  
3487 Pathogen[ P03410] interacts with 4 human partners: {P46527;Q12983;P55273;Q96A56}  
3488 Pathogen[ P14075] interacts with 3 human partners: {Q12983;P46527;Q96A56}  
3489 Pathogen[ P0C206] interacts with 4 human partners: {Q96A56;Q12983;P55273;P46527}  
3490 Pathogen[ P03363] interacts with 1 human partners: {Q96A56}

3491 [Cluster 318]GO:0010389+P biological\_process [name] regulation of G2/M transition of mitotic cell cycle [def] "Any process that modulates the rate or extent of progression from G2 phase to M phase of the mitotic cell cycle." [PMID

3492 Pathogen[ Q2Q067] interacts with 3 human partners: {P49454;Q8WWL7;Q8N726}  
3493 Pathogen[ P0C214] interacts with 3 human partners: {Q8N726;Q8WWL7;P49454}  
3494 Pathogen[ P03346] interacts with 4 human partners: {Q8WWL7;Q8N726;P61925;P49454}  
3495 Pathogen[ Q85601] interacts with 3 human partners: {P49454;Q8N726;Q8WWL7}  
3496 Pathogen[ P14079] interacts with 4 human partners: {Q8N726;Q8WWL7;P49454;P61925}  
3497 Pathogen[ P03383] interacts with 3 human partners: {P49454;Q8WWL7;Q8N726}  
3498 Pathogen[ P03410] interacts with 4 human partners: {P61925;Q8N726;Q8WWL7;P49454}  
3499 Pathogen[ P14075] interacts with 3 human partners: {Q8WWL7;P49454;Q8N726}  
3500 Pathogen[ P0C206] interacts with 4 human partners: {Q8WWL7;Q8N726;P49454;P61925}  
3501 Pathogen[ P03363] interacts with 4 human partners: {P49454;Q8WWL7;P61925;Q8N726}

3502 [Cluster 319]GO:0006766+P biological\_process [name] vitamin metabolic process [def] "The chemical reactions and pathways involving vitamins. Vitamin is a general term for a number of unrelated organic substances that occur in many foods in small amounts

and that are necessary in trace amounts for the normal metabolic functioning of the body. Vitamins may be water-soluble or fat-soluble and usually serve as components of coenzyme systems." [GOC

- 3503 Pathogen[ Q2Q067] interacts with 9 human  
partners: {Q9BU02;Q6XQN6;Q9HAB8;Q9NRN7;Q9HAN9;P11166;P34896;O96007;Q9Y697}
- 3504 Pathogen[ P0C214] interacts with 23 human  
partners: {Q96T66;Q9BU02;Q05932;Q9HAN9;Q8TE04;Q9HAB8;O96033;P42898;Q6XQN6;O95396;Q13057;P11166;P00374;Q9Y697;P34896;Q9BZQ4;O96007;Q9BZ23;Q15274;Q9NRN7;Q8NFF5;P43490;P11586}
- 3505 Pathogen[ P03346] interacts with 8 human  
partners: {Q9NRN7;Q9Y697;Q9HAN9;Q6XQN6;P11166;O96007;Q9BU02;Q9HAB8}
- 3506 Pathogen[ Q85601] interacts with 8 human  
partners: {Q9NRN7;Q9BU02;Q9Y697;Q9HAN9;Q6XQN6;P11166;P34896;O96007}
- 3507 Pathogen[ P14079] interacts with 25 human  
partners: {P00374;Q8TE04;O95544;Q8NFF5;P43490;P11166;Q96NT5;O96007;O96033;Q9BZ23;Q9BZQ4;Q6XQN6;Q13057;Q9Y697;Q9NRN7;Q9BU02;Q9HAN9;Q6IA69;Q96CD2;Q15274;Q05932;Q9NVS9;Q9HAB8;P34896;P42898}
- 3508 Pathogen[ P03383] interacts with 9 human  
partners: {Q9BU02;P34896;Q9NRN7;Q9Y697;Q9HAN9;O96007;Q9BZ23;P11169;Q9HAB8}
- 3509 Pathogen[ P03410] interacts with 23 human  
partners: {Q15274;Q9BU02;Q8NFF5;Q8TE04;P11166;Q13057;P00374;Q9Y697;Q6XQN6;P43490;O96007;Q96CD2;P42898;Q9NRN7;Q9BZ23;Q9HAN9;Q9NVS9;O96033;Q9HAB8;Q05932;Q6IA69;Q9BZQ4;P34896}
- 3510 Pathogen[ P14075] interacts with 13 human  
partners: {P11169;Q9HAB8;P34896;Q13057;Q9NVS9;Q8TE04;O96007;Q9BZ23;Q9HAN9;Q6XQN6;Q9BU02;Q9NRN7;Q9Y697}
- 3511 Pathogen[ P0C206] interacts with 17 human  
partners: {Q6XQN6;Q8TE04;Q13057;Q9Y697;O96007;P43490;Q9BZ23;P11166;Q9HAB8;P34896;Q9BZQ4;Q9HAN9;Q15274;Q9BU02;O95396;Q9NRN7;Q05932}
- 3512 Pathogen[ P03363] interacts with 7 human  
partners: {Q6XQN6;Q9HAN9;O96007;Q9Y697;Q9NRN7;Q9BU02;P11166}
- 3513 [Cluster 320]GO:0044237+P biological\_process [name] cellular metabolic process [def] "The chemical reactions and pathways by which individual cells transform chemical substances." [GOC
- 3514 Pathogen[ Q2Q067] interacts with 4 human partners: {P49770;Q9UI10;Q14232;Q9BV20}
- 3515 Pathogen[ P0C214] interacts with 5 human  
partners: {Q16795;Q9UI10;P49770;Q14232;Q9BV20}
- 3516 Pathogen[ P03346] interacts with 4 human partners: {Q9BV20;Q14232;P49770;Q9UI10}
- 3517 Pathogen[ Q85601] interacts with 4 human partners: {P49770;Q9BV20;Q14232;Q9UI10}
- 3518 Pathogen[ P14079] interacts with 5 human  
partners: {Q9UI10;Q9BV20;O15514;O95954;Q14232}
- 3519 Pathogen[ P03383] interacts with 4 human partners: {Q9UI10;P49770;Q9BV20;Q14232}
- 3520 Pathogen[ P03410] interacts with 6 human  
partners: {O95954;Q14232;O15514;P49770;Q9BV20;Q9UI10}
- 3521 Pathogen[ P14075] interacts with 4 human partners: {Q9BV20;Q9UI10;Q14232;P49770}
- 3522 Pathogen[ P0C206] interacts with 6 human  
partners: {Q9BV20;Q14232;O95954;P49770;O15514;Q9UI10}
- 3523 Pathogen[ P03363] interacts with 3 human partners: {Q9UI10;P49770;Q9BV20}
- 3524 [Cluster 321]GO:0007219+P biological\_process [name] Notch signaling pathway [def] "The series of molecular signals initiated by binding of the receptor Notch to an extracellular ligand." [GOC
- 3525 Pathogen[ Q2Q067] interacts with 51 human  
partners: {Q13573;Q96J02;Q92585;Q8IZL2;Q04726;Q9GZL7;Q9UKV0;P01106;Q9HCK5;Q9NQ87;Q13547;O15379;Q2M1K9;Q04727;Q96T58;Q96K30;Q8N5F7;Q9BUX1;Q9UQL6;Q969S8;Q92831;Q06330;Q86UW9;Q9H9G7;Q13616;O60907;Q8WUI4;Q9UKV8;O00321;Q04725;Q9HCE1;P0CG47;Q9BZK7;Q969H0;Q9Y618;Q04724;Q9Y5J3;P0CG48;P49336;P24863;Q92793;Q9UL18;P62987;Q86Y01;O75376;Q0VG99;Q96JK9;P63208;P62877;Q00534;P62979}
- 3526 Pathogen[ P0C214] interacts with 55 human  
partners: {Q96J02;Q92585;P24863;Q96T58;Q04727;Q13573;Q13547;P31249;O00321;Q969S8;Q8IZL2;O60907;Q8N5F7;Q92793;Q9Y5J3;Q9GZL7;P63208;Q2M1K9;Q06330;Q04724;Q9Y6I3;P62877;Q9HCE1;Q9UPQ9;Q00534;Q04726;P49336;P0CG48;Q9BUX1;Q9UKV0;Q9H9G7;O75376;Q8NDV7;Q96K30;O15379;Q96JK9;Q13616;Q969H0;Q9UKV8;P62987;Q92831;Q04725;P0CG47;Q9BZK7;Q9HCK5;Q9HCE1;Q8WUI4;Q86Y01;P62979;Q9NQ87;Q9Y618;Q86UW9;P01106;Q9UL18;Q9UQL6}
- 3527 Pathogen[ P03346] interacts with 57 human  
partners: {Q06330;Q969S8;P31249;Q96J02;Q92585;Q86UW9;O60907;Q9BUX1;Q13616;Q9HD90;Q0VG99;P62987;O15379;Q9H9G7;Q2M1K9;P24863;Q9UL18;P49336;Q9GZL7;P0CG48;O00321;Q92831;Q8N5F7;Q9Y5J3;Q96AX9;P01106;P62877;Q9HCK5;Q04726;Q04725;Q13547;Q04724;Q9NVX2;Q96K30;Q9NQ87;Q8WUI4;Q9UKV8;O75376;P63208;Q96T58;P62979;Q9UKV0;P0CG47;Q9BZK7;Q04727;Q00534;Q9Y6I3;Q13573;Q92793;Q9UPQ9;Q86Y01;Q9HCE1;Q9Y618;Q969H0;Q9UQL6;Q96JK9;Q8IZL2}
- 3528 Pathogen[ Q85601] interacts with 55 human  
partners: {P01106;Q9HCE1;Q969S8;Q96J02;Q92585;Q9UKV0;Q96JK9;Q9BUX1;Q969H0;Q04724;Q9HCK5;Q9UQL6;Q0VG99;Q06330;O60907;Q8N5F7;Q13573;Q2M1K9;P62877;Q9UL18;P49336;Q13616;Q9Y618;P0CG48;Q92831;Q04725;Q04726;Q86UW9;Q9H9G7;P63208;Q04727;Q9NVX2;Q8IZL2;Q9NQ87;O75376;Q9UKV8;Q96T58;P62979;P31249;P0CG47;Q9BZK7;O15379;Q9GZL7;Q9Y6I3;Q13547;P24863;P62987;Q00534;Q92793;Q8WUI4;Q9UPQ9;Q86Y01;Q96K30;Q9Y5J3;O00321}
- 3529 Pathogen[ P14079] interacts with 57 human

partners: {Q9UQL6;O15379;Q04725;Q9UKV8;Q96K30;Q9BZK7;P0CG48;Q9UL18;Q9H9G7;Q969H0;P49336;O00321;Q9Y6I3;Q96JK9;Q92542;Q9NZ42;Q92793;Q9HCE1;Q969S8;Q9HCK5;Q8WUI4;Q9GZL7;O60907;Q9UKV0;Q13573;Q8IZL2;P62979;P62877;P62987;Q9H488;Q06330;Q86Y01;Q9HJC0;P24863;Q2M1K9;Q9Y5J3;Q86UW9;P31249;Q96J02;P01106;Q04726;Q8WW43;Q04724;O75376;Q8NBL1;Q9NQ87;P63208;Q13616;Q9BUX1;Q9NVX2;P0CG47;Q92585;Q04727;Q9UPQ9;Q8NDV7;Q96T58;Q8N5F7}

3530 Pathogen[ P03383] interacts with 50 human  
partners: {Q9Y618;Q13573;Q06330;Q13616;Q92585;Q92831;Q96JK9;Q86UW9;P62987;Q9UL18;Q9BUX1;O75376;Q9UQL6;Q9UPQ9;P01106;Q04727;O60907;Q8N5F7;Q8IZL2;Q9NQ87;Q9HCK5;P63208;Q96K30;Q00534;Q04724;O00321;P31249;P49336;Q04726;Q04725;O15379;Q9UKV8;Q969H0;Q96T58;Q13547;P62979;Q9UKV0;P0CG47;Q9BZK7;P62877;Q9GZL7;P0CG48;P24863;Q2M1K9;Q8WUI4;Q86Y01;Q9HCE1;Q9H9G7;Q92793;Q969S8}

3531 Pathogen[ P03410] interacts with 58 human  
partners: {Q86UW9;Q92831;Q9Y5J3;Q9UKV0;Q9UPQ9;P0CG48;Q9UKV8;Q00534;Q04726;Q9Y6I3;P01106;Q06330;Q96K30;Q9UL18;Q9NQ87;Q9HJC0;Q9BUX1;Q8NDV7;P31249;Q04724;Q2M1K9;O00321;O75376;Q9GZL7;Q9H9G7;P62979;Q92585;Q96T58;Q8WUI4;Q9NZ42;Q9UQL6;Q8IZL2;Q96JK9;Q92793;P63208;Q969S8;Q86Y01;Q969H0;O15379;Q9HCE1;P62877;Q04727;Q9HCK5;P49336;P24863;Q13616;P62987;Q13547;Q8WW43;Q92542;Q9BZK7;Q9Y618;Q9NVX2;Q9H488;O60907;P0CG47;Q13573;Q04725}

3532 Pathogen[ P14075] interacts with 50 human  
partners: {Q04727;P49336;Q92585;P24863;Q13573;Q969S8;Q04725;Q9HCK5;Q92831;Q9H9G7;Q8N5F7;Q96T58;Q9GZL7;Q00534;Q9HCE1;P31249;Q9UKV0;Q9NQ87;Q13547;P01106;Q9Y618;O75376;P63208;Q04726;P0CG48;P62979;Q9UPQ9;Q96K30;P62987;O60907;Q96JK9;Q9UKV8;Q9BUX1;Q06330;O15379;P0CG47;Q9BZK7;Q92793;Q9UQL6;Q04724;Q9UL18;Q8WUI4;Q2M1K9;Q13616;Q8IZL2;Q86Y01;Q969H0;P62877;Q86UW9;O00321}

3533 Pathogen[ P0C206] interacts with 60 human  
partners: {Q86Y01;Q96AX9;P24863;Q9NQ87;P0CG48;P62877;P49336;Q9HCK5;Q06330;Q86UW9;Q9BUX1;Q9NZ42;O60907;Q9GZL7;Q96JK9;Q04726;Q9UKV0;Q96J02;Q96K30;Q969H0;Q9UPQ9;Q04727;Q9UKV8;Q13547;Q04725;Q92542;Q13616;O00321;Q8NDV7;Q92831;Q92793;Q9NVX2;Q9HCE1;Q13573;P63208;Q8IZL2;O15379;Q9Y5J3;Q8WUI4;P62979;Q9Y6I3;Q9BZK7;O75376;Q2M1K9;Q8N5F7;Q96T58;Q04724;P0CG47;Q9H9G7;P01106;P62987;P31249;Q969S8;Q86YT6;Q0VG99;Q9Y618;Q92585;Q9UL18;Q00534;Q9UQL6}

3534 Pathogen[ P03363] interacts with 52 human  
partners: {Q86Y01;Q96T58;Q9Y5J3;Q9GZL7;P24863;Q0VG99;Q92831;Q06330;Q9NQ87;O15379;Q9H9G7;Q969S8;Q9BZK7;Q9BUX1;O75376;O60907;Q9HCK5;Q96JK9;Q9UKV8;Q96K30;Q9UQL6;Q04726;Q04724;P01106;Q8NDV7;Q04727;P31249;O00321;Q2M1K9;Q00534;Q13616;Q9NVX2;P62877;Q8N5F7;Q9UKV0;Q86UW9;Q9HCE1;Q9Y618;P49336;Q969H0;Q13573;P62987;Q13547;Q92793;Q9UPQ9;Q9UL18;Q8WUI4;Q04725;P63208;Q8IZL2;Q92585;Q96AX9}

3535 [Cluster 322]GO:0060760+P biological\_process [name] positive regulation of response to cytokine stimulus [def] "Any process that increases the rate, frequency, or extent of a response to cytokine stimulus." [GOC  
3536 Pathogen[ Q2Q067] interacts with 1 human partners: {Q16594}  
3537 Pathogen[ P0C214] interacts with 1 human partners: {Q16594}  
3538 Pathogen[ P03346] interacts with 1 human partners: {Q16594}  
3539 Pathogen[ Q85601] interacts with 1 human partners: {Q16594}  
3540 Pathogen[ P14079] interacts with 1 human partners: {Q16594}  
3541 Pathogen[ P03383] interacts with 1 human partners: {Q16594}  
3542 Pathogen[ P03410] interacts with 1 human partners: {Q16594}  
3543 Pathogen[ P14075] interacts with 1 human partners: {Q16594}  
3544 Pathogen[ P0C206] interacts with 1 human partners: {Q16594}  
3545 Pathogen[ P03363] interacts with 1 human partners: {Q16594}

3546 [Cluster 323]GO:0002089+P biological\_process [name] lens morphogenesis in camera-type eye [def] "The process in which the anatomical structures of the lens are generated and organized. The lens is a transparent structure in the eye through which light is focused onto the retina. An example of this process is found in *Mus musculus*." [GOC  
3547 Pathogen[ Q2Q067] interacts with 3 human partners: {O00470;P12755;P02489}  
3548 Pathogen[ P0C214] interacts with 3 human partners: {O00470;P02489;P12755}  
3549 Pathogen[ P03346] interacts with 4 human partners: {O75364;Q8NHU6;P02489;O00470}  
3550 Pathogen[ Q85601] interacts with 3 human partners: {P02489;P12755;O00470}  
3551 Pathogen[ P14079] interacts with 4 human partners: {P12755;Q8NHU6;P02489;O00470}  
3552 Pathogen[ P03383] interacts with 1 human partners: {O00470}  
3553 Pathogen[ P03410] interacts with 4 human partners: {O00470;P12755;Q8NHU6;P02489}  
3554 Pathogen[ P14075] interacts with 1 human partners: {O00470}  
3555 Pathogen[ P0C206] interacts with 3 human partners: {O00470;P12755;P02489}  
3556 Pathogen[ P03363] interacts with 3 human partners: {Q8NHU6;O00470;P02489}

3557 [Cluster 324]GO:0018107+P biological\_process [name] peptidyl-threonine phosphorylation [def] "The phosphorylation of peptidyl-threonine to form peptidyl-O-phospho-L-threonine." [RESID  
3558 Pathogen[ Q2Q067] interacts with 3 human partners: {O14757;O95271;P21675}  
3559 Pathogen[ P0C214] interacts with 3 human partners: {P21675;O14757;O95271}  
3560 Pathogen[ P03346] interacts with 4 human partners: {O14757;P11137;P21675;O95271}  
3561 Pathogen[ Q85601] interacts with 3 human partners: {O14757;P21675;O95271}  
3562 Pathogen[ P14079] interacts with 5 human  
partners: {O95271;Q15078;P45983;P11137;P21675}  
3563 Pathogen[ P03383] interacts with 3 human partners: {O14757;P21675;O95271}  
3564 Pathogen[ P03410] interacts with 4 human partners: {P11137;P21675;O95271;O14757}  
3565 Pathogen[ P14075] interacts with 3 human partners: {P21675;O95271;O14757}  
3566 Pathogen[ P0C206] interacts with 3 human partners: {O95271;P11137;P21675}

3567 Pathogen[ P03363] interacts with 4 human partners:{P11137;O95271;P21675;O14757}

3568 [Cluster 325]GO:0086091+P

3569 Pathogen[ Q2Q067] interacts with 1 human partners:{P15924}

3570 Pathogen[ P0C214] interacts with 1 human partners:{P15924}

3571 Pathogen[ P03346] interacts with 1 human partners:{P15924}

3572 Pathogen[ Q85601] interacts with 1 human partners:{P15924}

3573 Pathogen[ P14079] interacts with 1 human partners:{P15924}

3574 Pathogen[ P03383] interacts with 1 human partners:{P15924}

3575 Pathogen[ P03410] interacts with 1 human partners:{P15924}

3576 Pathogen[ P14075] interacts with 1 human partners:{P15924}

3577 Pathogen[ P0C206] interacts with 1 human partners:{P15924}

3578 Pathogen[ P03363] interacts with 1 human partners:{P15924}

3579 [Cluster 326]GO:0030168+P biological\_process [name] platelet activation [def] "A series of progressive, overlapping events triggered by exposure of the platelets to subendothelial tissue. These events include shape change, adhesiveness, aggregation, and release reactions. When carried through to completion, these events lead to the formation of a stable hemostatic plug." [http

3580 Pathogen[ Q2Q067] interacts with 21 human partners:{P46108;P31749;O00186;P63104;P07737;P01009;Q6QNY0;P56945;P11831;P23528;O15162;P62328;Q8WYR1;P08697;Q13094;Q5JVS0;P27986;P63000;Q5UE93;P61586;P62937}

3581 Pathogen[ P0C214] interacts with 20 human partners:{P08697;P63000;Q5JVS0;P56945;P62993;P61586;O00186;P11831;P05121;Q13094;Q6QNY0;P10124;Q8WYR1;O15162;Q5UE93;P10909;P46108;P27986;P31749;P62328}

3582 Pathogen[ P03346] interacts with 21 human partners:{Q8WYR1;P11831;P62937;P62993;O00186;Q6QNY0;P56945;P31749;Q13094;P46108;Q5JVS0;P63104;P62328;P01009;Q5UE93;P07737;P23528;P63000;P27986;P61586;O15162}

3583 Pathogen[ Q85601] interacts with 23 human partners:{O00186;Q6QNY0;P11831;P63104;P31749;P62993;Q5JVS0;P63000;P46108;P08697;P27986;P07737;P01009;P56945;P05121;P61586;P62328;Q8WYR1;O15162;P23528;Q5UE93;P62937;Q13094}

3584 Pathogen[ P14079] interacts with 23 human partners:{Q5JVS0;O15162;Q01518;Q6QNY0;P20809;Q13094;Q8WYR1;P07737;P10909;P62937;P63104;O00186;Q8NCG7;P23528;P62328;P61586;P10124;P62993;O43561;Q5UE93;P0DJ18;P46108;Q9BYX7}

3585 Pathogen[ P03383] interacts with 21 human partners:{P27986;Q6QNY0;P56945;Q5JVS0;P11831;O15162;P31749;P62328;P08697;O00186;P62937;P63000;P07737;P01009;P63104;P61586;Q13094;P10124;Q8WYR1;Q5UE93;P23528}

3586 Pathogen[ P03410] interacts with 30 human partners:{P11831;Q13094;P27986;P05121;P0DJ18;Q5UE93;Q8NCG7;P62328;Q8WYR1;P63000;Q6QNY0;P10124;O43561;P20809;P31749;O15162;P62937;P61586;P08697;Q5JVS0;P63104;P46108;P56945;P01009;Q01518;P23528;O00186;P62993;P07737;P10909}

3587 Pathogen[ P14075] interacts with 22 human partners:{Q8WYR1;O00186;P11831;P62328;O15162;Q5UE93;P01009;P07737;P23528;P31749;Q5JVS0;P27986;Q6QNY0;P63104;P08697;P61586;Q13094;P63000;P20809;P62937;P10124;P56945}

3588 Pathogen[ P0C206] interacts with 26 human partners:{P31749;P62328;P01009;P27986;P62993;P61586;P63104;Q5JVS0;P63000;P10909;P20809;P11831;O15162;P05121;Q5UE93;P56945;P46108;Q6QNY0;Q13094;P07737;P23528;P62937;P10124;O00186;P08697;Q8WYR1}

3589 Pathogen[ P03363] interacts with 17 human partners:{P62937;Q8WYR1;P62328;P63000;P63104;P11831;Q5UE93;P31749;Q5JVS0;P23528;P46108;O00186;P56945;P27986;Q6QNY0;P07737;Q13094}

3590 [Cluster 327]GO:0008366+P biological\_process [name] axon ensheathment [def] "Any process in which the axon of a neuron is insulated, and that insulation maintained, thereby preventing dispersion of the electrical signal." [GOC

3591 Pathogen[ Q2Q067] interacts with 2 human partners:{Q03052;Q9BXM0}

3592 Pathogen[ P0C214] interacts with 2 human partners:{Q03052;Q9BXM0}

3593 Pathogen[ P03346] interacts with 3 human partners:{Q96PU8;Q03052;Q9BXM0}

3594 Pathogen[ Q85601] interacts with 2 human partners:{Q03052;Q9BXM0}

3595 Pathogen[ P14079] interacts with 3 human partners:{P02686;Q9BXM0;Q03052}

3596 Pathogen[ P03383] interacts with 1 human partners:{Q9BXM0}

3597 Pathogen[ P03410] interacts with 3 human partners:{Q9BXM0;P02686;Q03052}

3598 Pathogen[ P14075] interacts with 1 human partners:{Q9BXM0}

3599 Pathogen[ P0C206] interacts with 3 human partners:{Q96PU8;Q03052;Q9BXM0}

3600 Pathogen[ P03363] interacts with 3 human partners:{Q9BXM0;Q96PU8;Q03052}

3601 [Cluster 328]GO:0034605+P biological\_process [name] cellular response to heat [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a heat stimulus, a temperature stimulus above the optimal temperature for that organism." [GOC

3602 Pathogen[ Q2Q067] interacts with 6 human partners:{Q12798;Q53FT3;O14948;Q08211;Q9UBL0;P46013}

3603 Pathogen[ P0C214] interacts with 6 human partners:{Q53FT3;Q12798;O14948;Q9UBL0;P46013;Q08211}

3604 Pathogen[ P03346] interacts with 6 human partners:{Q08211;O14948;Q9UBL0;Q12798;P46013;Q53FT3}

3605 Pathogen[ Q85601] interacts with 6 human partners:{Q53FT3;Q12798;Q08211;O14948;Q9UBL0;P46013}

3606 Pathogen[ P14079] interacts with 7 human partners:{Q08211;Q9UBL0;Q53FT3;Q12798;O14948;Q9NQ40;P46013}

3607 Pathogen[ P03383] interacts with 5 human partners:{P46013;Q12798;O14948;Q53FT3;Q9UBL0}

3608 Pathogen[ P03410] interacts with 7 human partners:{Q9UBL0;O14948;P46013;Q12798;Q53FT3;Q9NQ40;Q08211}

3609 Pathogen[ P14075] interacts with 5 human partners:{Q53FT3;Q12798;O14948;P46013;Q9UBL0}

3610 Pathogen[ P0C206] interacts with 6 human partners:{O14948;Q08211;P46013;Q9UBL0;Q12798;Q53FT3}

3611 Pathogen[ P03363] interacts with 6 human partners:{Q53FT3;O14948;Q12798;Q9UBL0;P46013;Q08211}

3612 [Cluster 329]GO:0006754+P biological\_process [name] ATP biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of ATP, adenosine 5'-triphosphate, a universally important coenzyme and enzyme regulator." [GOC

3613 Pathogen[ Q2Q067] interacts with 3 human partners:{O75323;Q8WYQ3;P07864}

3614 Pathogen[ P0C214] interacts with 6 human partners:{P07864;P36542;P14618;Q99766;Q8WYQ3;O75323}

3615 Pathogen[ P03346] interacts with 2 human partners:{Q8WYQ3;O75323}

3616 Pathogen[ Q85601] interacts with 4 human partners:{P07864;P14618;O75323;Q99766}

3617 Pathogen[ P14079] interacts with 14 human partners:{P36542;P56134;P25705;Q8WYQ3;P56385;Q5VTU8;Q15526;Q7Z4Y8;O75323;P03928;P07864;Q99766;O75964;P56381}

3618 Pathogen[ P03383] interacts with 3 human partners:{O75323;P07864;Q8WYQ3}

3619 Pathogen[ P03410] interacts with 13 human partners:{Q99766;Q8WYQ3;P36542;P25705;P56385;P56381;Q5VTU8;O75323;P03928;O75964;P07864;P56134;Q7Z4Y8}

3620 Pathogen[ P14075] interacts with 5 human partners:{O75323;Q8WYQ3;P07864;Q99766;P56385}

3621 Pathogen[ P0C206] interacts with 8 human partners:{P07864;Q99766;P36542;Q8WYQ3;P56381;P56385;O75323;P14618}

3622 Pathogen[ P03363] interacts with 1 human partners:{O75323}

3623 [Cluster 330]GO:0034080+P biological\_process [name] CenH3-containing nucleosome assembly at centromere [def] "The formation of nucleosomes containing the histone H3 variant CenH3 (also called CENP-A) to form centromeric chromatin\_ occurs outside the context of DNA replication." [GOC

3624 Pathogen[ Q2Q067] interacts with 17 human partners:{Q9NYP9;Q96H22;Q71F23;Q13352;Q6IPU0;Q9H3R5;P49450;P06748;Q09028;Q92674;O43482;Q96T23;Q8NG31;Q9BU64;Q16576;Q8NCD3;Q6P0N0}

3625 Pathogen[ P0C214] interacts with 17 human partners:{Q6P0N0;P06748;Q6IPU0;Q09028;P49450;Q8NCD3;O43482;Q92674;Q9NYP9;Q13352;Q16576;O60264;Q9H3R5;Q8NG31;Q96T23;Q71F23;Q9BU64}

3626 Pathogen[ P03346] interacts with 20 human partners:{Q7L2Z9;P06748;Q9BS16;Q92674;O43482;Q6P0N0;Q8NCD3;O60264;Q09028;Q96T23;Q16576;Q9BU64;P49450;Q6IPU0;Q8NG31;Q9NYP9;Q9H3R5;Q96H22;Q71F23;Q13352}

3627 Pathogen[ Q85601] interacts with 16 human partners:{Q96T23;Q71F23;Q8NG31;Q9H3R5;Q8NCD3;Q92674;Q13352;Q9NYP9;Q9BU64;Q16576;P49450;P06748;Q09028;O60264;Q6P0N0;O43482}

3628 Pathogen[ P14079] interacts with 19 human partners:{Q6P0N0;Q96T23;O43482;Q8NG31;Q6IPU0;Q16576;Q71F23;P49450;Q96H22;O60264;Q9NYP9;P06748;Q9H3R5;Q8NCD3;Q92674;Q9BU64;Q09028;Q13352;Q7L2Z9}

3629 Pathogen[ P03383] interacts with 16 human partners:{Q09028;Q6IPU0;P06748;Q9NYP9;Q96H22;Q96T23;Q13352;Q71F23;Q9BU64;Q8NCD3;Q8NG31;Q6P0N0;Q92674;Q9H3R5;O43482;Q16576}

3630 Pathogen[ P03410] interacts with 19 human partners:{Q9H3R5;Q96T23;Q96H22;Q8NG31;Q6IPU0;Q9NYP9;Q92674;P06748;Q6P0N0;Q8NCD3;Q16576;Q09028;O43482;Q71F23;P49450;O60264;Q13352;Q7L2Z9;Q9BU64}

3631 Pathogen[ P14075] interacts with 16 human partners:{Q16576;Q6IPU0;Q92674;Q96H22;Q9H3R5;Q09028;Q9BU64;Q9NYP9;P06748;Q8NCD3;Q96T23;Q13352;Q8NG31;O43482;Q6P0N0;Q71F23}

3632 Pathogen[ P0C206] interacts with 19 human partners:{Q6IPU0;Q7L2Z9;Q9NYP9;Q96T23;Q9BU64;Q92674;Q9H3R5;P49450;Q8NCD3;Q13352;O43482;Q6P0N0;Q96H22;Q16576;Q09028;P06748;Q71F23;Q8NG31;O60264}

3633 Pathogen[ P03363] interacts with 15 human partners:{Q6P0N0;Q9NYP9;Q92674;Q09028;P06748;O60264;Q96T23;Q16576;P49450;Q8NG31;Q8NCD3;Q71F23;Q9H3R5;O43482;Q13352}

3634 [Cluster 331]GO:0040015+P biological\_process [name] negative regulation of multicellular organism growth [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of growth of an organism to reach its usual body size." [GOC

3635 Pathogen[ Q2Q067] interacts with 1 human partners:{Q99700}

3636 Pathogen[ P0C214] interacts with 1 human partners:{Q99700}

3637 Pathogen[ P03346] interacts with 2 human partners:{Q99700;Q7Z5J4}

3638 Pathogen[ Q85601] interacts with 1 human partners:{Q99700}

3639 Pathogen[ P14079] interacts with 2 human partners:{Q99700;Q8TCU4}

3640 Pathogen[ P03383] interacts with 1 human partners:{Q99700}

3641 Pathogen[ P03410] interacts with 2 human partners:{Q99700;Q8TCU4}



3642 Pathogen[ P14075] interacts with 1 human partners:{Q99700}

3643 Pathogen[ P0C206] interacts with 3 human partners:{Q8TCU4;Q7Z5J4;Q99700}

3644 Pathogen[ P03363] interacts with 1 human partners:{Q99700}

3645 [Cluster 332]GO:0030949+P biological\_process [name] positive regulation of vascular endothelial growth factor receptor signaling pathway [def] "Any process that activates or increases the frequency, rate or extent of vascular endothelial growth factor receptor signaling pathway activity." [GOC

3646 Pathogen[ Q2Q067] interacts with 1 human partners:{P27540}

3647 Pathogen[ P0C214] interacts with 1 human partners:{P27540}

3648 Pathogen[ P03346] interacts with 2 human partners:{Q13322;P27540}

3649 Pathogen[ Q85601] interacts with 1 human partners:{P27540}

3650 Pathogen[ P14079] interacts with 1 human partners:{P27540}

3651 Pathogen[ P03383] interacts with 1 human partners:{P27540}

3652 Pathogen[ P03410] interacts with 1 human partners:{P27540}

3653 Pathogen[ P14075] interacts with 1 human partners:{P27540}

3654 Pathogen[ P0C206] interacts with 1 human partners:{P27540}

3655 Pathogen[ P03363] interacts with 1 human partners:{P27540}

3656 [Cluster 333]GO:0060045+P biological\_process [name] positive regulation of cardiac muscle cell proliferation [def] "Any process that activates or increases the frequency, rate or extent of cardiac muscle cell proliferation." [GOC

3657 Pathogen[ Q2Q067] interacts with 2 human partners:{P14635;Q06330}

3658 Pathogen[ P0C214] interacts with 2 human partners:{Q06330;P14635}

3659 Pathogen[ P03346] interacts with 3 human partners:{Q06330;P14635;Q99593}

3660 Pathogen[ Q85601] interacts with 2 human partners:{Q06330;P14635}

3661 Pathogen[ P14079] interacts with 3 human partners:{Q06413;Q06330;P14635}

3662 Pathogen[ P03383] interacts with 2 human partners:{Q06330;P14635}

3663 Pathogen[ P03410] interacts with 2 human partners:{Q06330;P14635}

3664 Pathogen[ P14075] interacts with 2 human partners:{P14635;Q06330}

3665 Pathogen[ P0C206] interacts with 2 human partners:{Q06330;P14635}

3666 Pathogen[ P03363] interacts with 1 human partners:{Q06330}

3667 [Cluster 334]GO:0034097+P biological\_process [name] response to cytokine stimulus [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a cytokine stimulus." [GOC

3668 Pathogen[ Q2Q067] interacts with 14 human partners:{P01100;P40763;Q04206;P11831;Q99966;P49356;P55212;P24864;P29474;P42226;P23497;P15407;P42224;P42772}

3669 Pathogen[ P0C214] interacts with 19 human partners:{P29474;P15407;P55212;P42226;P01100;P17275;P11831;Q04206;Q16613;P42224;P05121;Q99966;P49356;P23497;P05412;P24864;P40763;O15524;P42772}

3670 Pathogen[ P03346] interacts with 18 human partners:{P05412;O15524;Q99966;P29474;P11831;P17275;P42772;Q04206;P24864;P42226;P55212;P49356;P42224;Q07820;P15407;P23497;P40763;P01100}

3671 Pathogen[ Q85601] interacts with 17 human partners:{P11831;Q99966;P15407;P40763;P42772;Q16613;P01100;Q04206;P42226;P05412;P4224;P49356;P05121;P29474;P55212;P17275;P24864}

3672 Pathogen[ P14079] interacts with 15 human partners:{P24864;P39656;P16298;Q99966;P23497;P55212;Q16613;P42226;P17275;P49356;P4224;Q8N9M5;P15407;P05412;P01100}

3673 Pathogen[ P03383] interacts with 13 human partners:{P11831;P29474;P55212;Q16613;P42226;P42772;P15407;P23497;P01100;Q04206;P24864;P17275;P05412}

3674 Pathogen[ P03410] interacts with 17 human partners:{Q04206;P11831;P05121;P42772;P49356;P01100;P29474;P17275;Q16613;P05412;P4226;P15407;P39656;P55212;P24864;P40763;Q99966}

3675 Pathogen[ P14075] interacts with 13 human partners:{P29474;P23497;Q04206;P05412;P42226;P11831;P17275;P55212;Q16613;P01100;P42772;P15407;P24864}

3676 Pathogen[ P0C206] interacts with 19 human partners:{P15407;P17275;P39656;P05412;P55212;P42772;O15524;P01100;Q04206;P40763;P29474;P11831;Q99966;P42226;P05121;Q16613;P42224;P49356;P24864}

3677 Pathogen[ P03363] interacts with 14 human partners:{P29474;Q04206;P24864;O15524;P23497;P17275;P42226;P55212;P11831;P42772;P15407;Q07820;P05412;P01100}

3678 [Cluster 335]GO:0045321+P biological\_process [name] leukocyte activation [def] "A change in morphology and behavior of a leukocyte resulting from exposure to a specific antigen, mitogen, cytokine, cellular ligand, or soluble factor." [GOC

3679 Pathogen[ Q2Q067] interacts with 1 human partners:{P17036}

3680 Pathogen[ P0C214] interacts with 2 human partners:{Q9H0E2;P17036}

3681 Pathogen[ P03346] interacts with 2 human partners:{Q9H0E2;P17036}

3682 Pathogen[ Q85601] interacts with 1 human partners:{P17036}

3683 Pathogen[ P14079] interacts with 1 human partners:{Q9H0E2}

3684 Pathogen[ P03383] interacts with 1 human partners:{P17036}

3685 Pathogen[ P03410] interacts with 2 human partners:{P17036;Q9H0E2}

3686 Pathogen[ P14075] interacts with 1 human partners:{P17036}

3687 Pathogen[ P0C206] interacts with 2 human partners:{Q9H0E2;P17036}

3688 Pathogen[ P03363] interacts with 2 human partners:{P17036;Q9H0E2}

3689 [Cluster 336]GO:0060325+P biological\_process [name] face morphogenesis [def] "The process in which the anatomical structures of the face are generated and organized. The face is the ventral division of the head." [GOC

3690 Pathogen[ Q2Q067] interacts with 5 human partners:{Q96S65;P12755;Q8WVJ9;Q14865;P55771}

3691 Pathogen[ P0C214] interacts with 5 human partners:{Q96S65;Q14865;P12755;Q8WVJ9;P55771}

3692 Pathogen[ P03346] interacts with 6 human partners:{Q96S65;Q8WVJ9;Q14865;Q9HB21;P56178;P55771}

3693 Pathogen[ Q85601] interacts with 6 human partners:{Q96S65;P12755;P55771;Q9HB21;Q14865;Q8WVJ9}

3694 Pathogen[ P14079] interacts with 8 human partners:{P12755;P55771;Q14865;Q8WVJ9;Q96S65;Q15042;Q9HB21;P28360}

3695 Pathogen[ P03383] interacts with 3 human partners:{Q96S65;P55771;Q8WVJ9}

3696 Pathogen[ P03410] interacts with 7 human partners:{Q8WVJ9;P12755;Q9HB21;Q96S65;P55771;Q14865;Q15042}

3697 Pathogen[ P14075] interacts with 3 human partners:{Q96S65;Q8WVJ9;P55771}

3698 Pathogen[ P0C206] interacts with 6 human partners:{Q96S65;P55771;Q8WVJ9;P12755;Q9HB21;Q14865}

3699 Pathogen[ P03363] interacts with 4 human partners:{Q96S65;P55771;Q14865;Q8WVJ9}

3700 [Cluster 337]GO:0048813+P biological\_process [name] dendrite morphogenesis [def] "The process in which the anatomical structures of a dendrite are generated and organized. A dendrite is a freely branching protoplasmic process of a nerve cell." [GOC

3701 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9NYF0;P63000;Q02078}

3702 Pathogen[ P0C214] interacts with 3 human partners:{P63000;Q02078;Q9NYF0}

3703 Pathogen[ P03346] interacts with 6 human partners:{Q02078;Q075840;P11137;Q13492;Q9NYF0;P63000}

3704 Pathogen[ Q85601] interacts with 3 human partners:{Q02078;Q9NYF0;P63000}

3705 Pathogen[ P14079] interacts with 4 human partners:{Q13492;Q02078;P11137;Q9NYF0}

3706 Pathogen[ P03383] interacts with 3 human partners:{P63000;Q9NYF0;Q02078}

3707 Pathogen[ P03410] interacts with 5 human partners:{P11137;P63000;Q13492;Q9NYF0;Q02078}

3708 Pathogen[ P14075] interacts with 3 human partners:{Q02078;P63000;Q9NYF0}

3709 Pathogen[ P0C206] interacts with 4 human partners:{Q02078;P11137;P63000;Q9NYF0}

3710 Pathogen[ P03363] interacts with 4 human partners:{P11137;Q9NYF0;P63000;Q02078}

3711 [Cluster 338]GO:0001701+P biological\_process [name] in utero embryonic development [def] "The process whose specific outcome is the progression of the embryo in the uterus over time, from formation of the zygote in the oviduct, to birth. An example of this process is found in *Mus musculus*." [GOC

3712 Pathogen[ Q2Q067] interacts with 65 human partners:{O15525;Q9UNS2;Q9NR56;Q9HBZ2;A6NGQ2;Q63HK5;Q15293;P27694;Q8WW38;P67809;Q13485;P35712;Q15554;O96004;Q01196;Q00613;P15976;Q96ST3;Q02447;Q86YP4;Q8N5D0;Q07955;P08047;P11831;Q15561;Q9UJW3;P35227;Q99873;O60663;P14635;P63146;P55199;P59047;P56693;Q9ULX9;O60934;P84022;Q15468;O95067;P29474;Q13426;Q29830;P35226;Q8WUW1;Q13618;Q15796;O00321;Q14145;P20290;O95983;P16989;P49459;Q9HCK8;O96018;Q5TGS1;P35579;O95613;Q9BQA5;Q9HBD4;P10242;P35711;Q9NYV6;Q06546;Q15750;Q03112}

3713 Pathogen[ P0C214] interacts with 65 human partners:{P29474;P35226;P20290;P35227;Q00613;O60663;P16989;Q06546;O00321;Q8N5D0;Q15554;Q9NR56;Q03112;Q14145;P17275;Q9HBD4;P35711;P56693;P67809;P84022;P11831;Q63HK5;P49459;O96018;Q13618;Q99873;P14635;Q9Y6I3;Q99807;Q9UNS2;Q07955;Q9HBZ2;Q15561;P35580;Q13426;O95983;Q86YP4;Q13485;P55199;Q15468;Q8WW38;O95067;Q9HCK8;Q9ULX9;Q15796;O15525;Q9NYV6;Q8WUW1;P10242;Q15750;Q02447;Q92830;Q96ST3;O96004;P13533;P27694;O95613;Q9BQA5;Q15293;P59047;Q5TGS1;P35712;P08047;P63146;Q9UJW3}

3714 Pathogen[ P03346] interacts with 79 human partners:{Q96ST3;P59047;Q9HBD4;Q99873;P29474;Q00613;Q8WW38;P11831;Q9Y5W3;Q15554;P27694;P35579;P35226;P17275;Q9UJQ4;O95983;Q68CZ1;Q13426;Q13618;Q15796;P56693;P35227;O00321;Q63HK5;Q99767;P16989;P49459;O75626;O95067;Q9ULX9;Q07955;Q13351;Q8WUW1;P08047;Q15561;O60663;O96004;Q92830;P84022;P10242;Q8N5D0;P15976;Q06546;P67809;P14635;Q86YP4;P63146;Q03112;Q9HCK8;O96018;Q5TGS1;Q15750;Q9HBZ2;O95718;P35713;O60934;P55199;O15525;P35712;Q9NYV6;Q99929;Q01196;Q13485;Q9P2D1;O95613;Q9UNS2;Q9Y6I3;P20290;Q14145;Q15293;O43543;P35711;Q15468;Q02447;Q9NR56;A6NGQ2;Q9UJW3;Q9BQA5;Q9UJU5}

3715 Pathogen[ Q85601] interacts with 69 human partners:{P11831;P63146;Q15750;P15976;Q15293;P13533;Q06546;Q9P2D1;Q8WW38;Q15554;Q9UJW3;P35579;Q13426;Q03112;O60663;P35712;P10242;Q99767;Q9NR56;O95983;O96004;Q8WUW1;Q00613;O15525;Q07955;P20290;P27694;Q14145;P08047;Q92830;P14635;Q99873;Q5TGS1;Q86YP4;P35711;P67809;O96018;Q9HBZ2;P49459;Q02447;P56693;P29474;Q9HBD4;P55199;Q9BQA5;P84022;Q9HCK8;Q9UNS2;Q9NYV6;P35226;P35580;Q9Y6I3;O75626;O95613;Q13618;O95067;Q63HK5;P17275;Q13485;P16989;Q8N5D0;Q9ULX9;Q15561;Q15796;O00321;P35227;O60934;P59047;Q96ST3}

3716 Pathogen[ P14079] interacts with 74 human partners:{P35711;P35579;Q15293;P55199;Q99807;Q15561;Q9NYV6;Q8N5D0;Q06546;O00321;Q92830;O75626;P67809;Q9Y6I3;Q99873;Q96ST3;Q13618;Q9UNS2;Q68CZ1;P35712;O96004;O95067;Q02447;Q15750;P15976;Q86YP4;O60934;Q9BQA5;Q9NR56;Q14249;A6NGQ2;O95718;P35611;Q9P2D1;Q00613;P14635;Q14145;P16989;Q9UJW3;O96018;O60663;P49459;P17275;Q4AC94;Q15468;Q5TGS1;Q9UJQ4;Q9HCK8;O95983;Q13351;Q9ULX9;Q07955;P56693;O43543;P35226;Q15554;P35227;Q9Y5W3;O15525;O95613;P27694;Q63HK5;Q8WUW1;Q9HBZ2;P10242;O43819;P28360;P63146;Q13426;P59047;Q8WW

38;Q99767;P49917;P20290}

3717 Pathogen[ P03383] interacts with 59 human partners: {P35227;O96018;P16989;Q07955;P55199;Q15561;P11831;P35712;Q13485;Q9HBD4;P20290;P08047;Q9NVV6;P29474;Q8WW38;Q86YP4;Q15554;Q9UJW3;P27694;Q9NR56;Q15468;O00321;P14635;O15525;Q13618;O96004;Q03112;P84022;A6NGQ2;Q99873;Q02447;Q9BQA5;Q13426;Q92830;O60663;O95067;P35711;Q00613;P35580;P10242;Q9HCK8;O95983;Q14145;Q15796;P49459;P35579;Q96ST3;P63146;Q5TGS1;O95613;Q9UNS2;P17275;P56693;P67809;Q9ULX9;Q06546;Q8N5D0;P35226;Q15796}

3718 Pathogen[ P03410] interacts with 78 human partners: {P84022;Q92830;Q00613;P35712;O96018;P11831;Q03112;Q15293;O96004;Q15554;Q9Y6I3;Q02447;P16989;A6NGQ2;Q9BQA5;Q15750;P10242;Q4AC94;Q15468;P49459;Q9NR56;O95067;Q99767;P35579;P59047;Q86YP4;O00321;P35227;Q96ST3;Q8WW38;O60663;Q8WUW1;Q9HBZ2;P67809;Q9NVV6;O15525;P55199;Q13618;P29474;Q15561;P14635;Q5TGS1;Q9P2D1;Q07955;P17275;Q9UNS2;O95983;P63146;Q13485;Q9ULX9;Q9HCK8;P56693;P20290;Q8N5D0;Q13426;P35580;O43543;P08047;P27694;P13533;Q9UJW3;O75626;Q99807;Q63HK5;Q68CZ1;O95613;P35226;Q9HBD4;Q14145;Q15796;Q9UJQ4;P35611;P15976;O60934;Q06546;Q99873;O43819;Q14249}

3719 Pathogen[ P14075] interacts with 58 human partners: {P29474;Q96ST3;O60663;Q00613;O95067;Q15750;Q5TGS1;Q9HBD4;P16989;O96018;Q9BQA5;Q9NVV6;Q13618;P11831;Q8N5D0;Q15554;P14635;P17275;Q06546;P49459;Q15561;Q9UJW3;Q9ULX9;P56693;Q8WW38;P10242;Q15796;P35711;O96004;Q13485;O95983;Q9NR56;Q99873;P35712;Q9HCK8;P67809;P35579;Q03112;Q13426;A6NGQ2;P27694;P55199;Q02447;Q15525;P20290;Q9UNS2;Q15468;P35226;P63146;O95613;P84022;Q92830;Q14145;P35227;Q86YP4;Q07955;O00321;P08047}

3720 Pathogen[ P0C206] interacts with 78 human partners: {A6NGQ2;P84022;P67809;Q15468;Q9HCK8;Q92830;Q06546;Q96ST3;Q07955;Q9UJQ4;Q5TGS1;P13533;P17275;P20290;Q99873;Q15554;O95983;Q00613;P35226;O60934;Q9NR56;Q9P2D1;Q8WW38;P10242;O75626;P56693;Q86YP4;O15525;P15976;O00321;Q15796;Q9BQA5;Q14145;O96004;Q63HK5;Q99767;O95718;Q8WUW1;P49917;P35711;Q03112;O96018;Q13618;P16989;P59047;O95613;P08047;P49459;Q13426;Q15293;Q99807;Q02447;P35579;Q9Y6I3;Q13485;P29474;P11831;P35712;O43543;Q9HBD4;P27694;O95067;O60663;Q15750;P55199;P14635;Q8N5D0;P35580;Q86YT6;Q9NVV6;Q14249;Q15561;Q9UJW3;Q9HBZ2;Q9UNS2;Q9ULX9;P63146;P35227}

3721 Pathogen[ P03363] interacts with 67 human partners: {A6NGQ2;Q5TGS1;P29474;Q9UJQ4;P27694;P35711;Q14145;P49459;Q15468;P35227;Q8N5D0;P35579;Q15554;Q86YP4;P55199;Q02447;Q06546;Q03112;O60663;Q99929;Q13618;O95613;Q9HBZ2;P63146;Q9NR56;P17275;Q15750;O00321;P11831;Q9HCK8;Q15293;P56693;Q13426;O95067;Q9NVV6;Q92830;P35226;O15525;Q96ST3;Q9HBD4;Q9BQA5;Q15796;O95983;P84022;O96004;P59047;Q9UNS2;Q8WUW1;P20290;P35712;P10242;Q13485;Q63HK5;Q07955;Q00613;Q9UJW3;P16989;Q8WW38;P08047;O75626;Q9UJW3;Q9ULX9;Q15561;O96018;Q99767;Q99873;P67809}

3722 [Cluster 339]GO:0035694+P biological\_process [name] mitochondrial protein catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of a mitochondrial protein. This process is necessary to maintain the healthy state of mitochondria and is thought to occur via the induction of an intramitochondrial lysosome-like organelle that acts to eliminate the damaged oxidised mitochondrial proteins without destroying the mitochondrial structure." [GOC

3723 Pathogen[ Q2Q067] interacts with 3 human partners: {O60238;Q12983;Q8TC71}

3724 Pathogen[ P0C214] interacts with 3 human partners: {Q12983;O60238;Q8TC71}

3725 Pathogen[ P03346] interacts with 3 human partners: {Q8TC71;O60238;Q12983}

3726 Pathogen[ Q85601] interacts with 2 human partners: {Q12983;O60238}

3727 Pathogen[ P14079] interacts with 3 human partners: {Q12983;O60238;Q8TC71}

3728 Pathogen[ P03383] interacts with 3 human partners: {Q12983;O60238;Q8TC71}

3729 Pathogen[ P03410] interacts with 3 human partners: {Q12983;Q8TC71;O60238}

3730 Pathogen[ P14075] interacts with 3 human partners: {Q12983;O60238;Q8TC71}

3731 Pathogen[ P0C206] interacts with 3 human partners: {Q8TC71;O60238;Q12983}

3732 Pathogen[ P03363] interacts with 2 human partners: {Q8TC71;O60238}

3733 [Cluster 340]GO:0010824+P biological\_process [name] regulation of centrosome duplication [def] "Any process that modulates the frequency, rate or extent of centrosome duplication. Centrosome duplication is the replication of a centrosome, a structure comprised of a pair of centrioles and peri-centriolar material from which a microtubule spindle apparatus is organized." [GOC

3734 Pathogen[ Q2Q067] interacts with 1 human partners: {O14980}

3735 Pathogen[ P0C214] interacts with 1 human partners: {O14980}

3736 Pathogen[ P03346] interacts with 2 human partners: {O14980;Q9UHD1}

3737 Pathogen[ Q85601] interacts with 2 human partners: {Q9UHD1;O14980}

3738 Pathogen[ P14079] interacts with 1 human partners: {Q9UHD1}

3739 Pathogen[ P03383] interacts with 1 human partners: {O14980}

3740 Pathogen[ P03410] interacts with 2 human partners: {Q9UHD1;O14980}

3741 Pathogen[ P14075] interacts with 1 human partners: {O14980}

3742 Pathogen[ P0C206] interacts with 1 human partners: {Q9UHD1}

3743 Pathogen[ P03363] interacts with 1 human partners: {O14980}

3744 [Cluster 341]GO:0050871+P biological\_process [name] positive regulation of B cell activation [def] "Any process that activates or increases the frequency, rate or extent of B cell activation." [GOC

3745 Pathogen[ Q2Q067] interacts with 3 human partners: {Q8IUC6;Q96FA3;Q8NFFZ5}

3746 Pathogen[ P0C214] interacts with 3 human partners: {Q8IUC6;Q96FA3;Q8NFFZ5}

3747 Pathogen[ P03346] interacts with 3 human partners: {Q8NFFZ5;Q96FA3;Q8IUC6}

3748 Pathogen[ Q85601] interacts with 3 human partners: {Q8IUC6;Q96FA3;Q8NFFZ5}

3749 Pathogen[ P14079] interacts with 3 human partners: {Q8IUC6;Q96FA3;Q8NFFZ5}

3750 Pathogen[ P03383] interacts with 3 human partners:{Q8IUC6;Q96FA3;Q8NFZ5}  
3751 Pathogen[ P03410] interacts with 3 human partners:{Q8NFZ5;Q96FA3;Q8IUC6}  
3752 Pathogen[ P14075] interacts with 3 human partners:{Q8NFZ5;Q96FA3;Q8IUC6}  
3753 Pathogen[ P0C206] interacts with 3 human partners:{Q8NFZ5;Q8IUC6;Q96FA3}  
3754 Pathogen[ P03363] interacts with 2 human partners:{Q96FA3;Q8NFZ5}  
3755 [Cluster 342]GO:0035457+P biological\_process [name] cellular response to interferon-alpha [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an interferon-alpha stimulus. Interferon-alpha is a type I interferon." [GOC  
3756 Pathogen[ Q2Q067] interacts with 2 human partners:{P09913;O14879}  
3757 Pathogen[ P0C214] interacts with 2 human partners:{P09913;O14879}  
3758 Pathogen[ P03346] interacts with 2 human partners:{O14879;P09913}  
3759 Pathogen[ Q85601] interacts with 2 human partners:{P09913;O14879}  
3760 Pathogen[ P14079] interacts with 2 human partners:{P09913;O14879}  
3761 Pathogen[ P03383] interacts with 2 human partners:{O14879;P09913}  
3762 Pathogen[ P03410] interacts with 2 human partners:{P09913;O14879}  
3763 Pathogen[ P14075] interacts with 2 human partners:{P09913;O14879}  
3764 Pathogen[ P0C206] interacts with 2 human partners:{O14879;P09913}  
3765 Pathogen[ P03363] interacts with 2 human partners:{P09913;O14879}  
3766 [Cluster 343]GO:0045576+P biological\_process [name] mast cell activation [def] "The change in morphology and behavior of a mast cell resulting from exposure to a cytokine, chemokine, soluble factor, or to (at least in mammals) an antigen which the mast cell has specifically bound via IgE bound to Fc-epsilonRI receptors." [GOC  
3767 Pathogen[ Q2Q067] interacts with 2 human partners:{Q13094;Q92597}  
3768 Pathogen[ P0C214] interacts with 2 human partners:{Q13094;Q92597}  
3769 Pathogen[ P03346] interacts with 2 human partners:{Q92597;Q13094}  
3770 Pathogen[ Q85601] interacts with 2 human partners:{Q92597;Q13094}  
3771 Pathogen[ P14079] interacts with 2 human partners:{Q13094;Q92597}  
3772 Pathogen[ P03383] interacts with 2 human partners:{Q92597;Q13094}  
3773 Pathogen[ P03410] interacts with 2 human partners:{Q13094;Q92597}  
3774 Pathogen[ P14075] interacts with 2 human partners:{Q13094;Q92597}  
3775 Pathogen[ P0C206] interacts with 2 human partners:{Q92597;Q13094}  
3776 Pathogen[ P03363] interacts with 2 human partners:{Q92597;Q13094}  
3777 [Cluster 344]GO:0031507+P biological\_process [name] heterochromatin assembly [def] "The assembly of chromatin into heterochromatin, a compact and highly condensed form that is often, but not always, transcriptionally silent." [GOC  
3778 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8TBE0}  
3779 Pathogen[ P0C214] interacts with 1 human partners:{Q8TBE0}  
3780 Pathogen[ P03346] interacts with 1 human partners:{Q8TBE0}  
3781 Pathogen[ Q85601] interacts with 1 human partners:{Q8TBE0}  
3782 Pathogen[ P14079] interacts with 1 human partners:{Q8TBE0}  
3783 Pathogen[ P03383] interacts with 1 human partners:{Q8TBE0}  
3784 Pathogen[ P03410] interacts with 1 human partners:{Q8TBE0}  
3785 Pathogen[ P14075] interacts with 1 human partners:{Q8TBE0}  
3786 Pathogen[ P0C206] interacts with 1 human partners:{Q8TBE0}  
3787 Pathogen[ P03363] interacts with 1 human partners:{Q8TBE0}  
3788 [Cluster 345]GO:0043550+P biological\_process [name] regulation of lipid kinase activity [def] "Any process that modulates the frequency, rate or extent of lipid kinase activity, the catalysis of the transfer of a phosphate group, usually from ATP, to a simple or complex lipid." [GOC  
3789 Pathogen[ Q2Q067] interacts with 3 human partners:{P06400;Q08999;P28749}  
3790 Pathogen[ P0C214] interacts with 3 human partners:{Q08999;P28749;P06400}  
3791 Pathogen[ P03346] interacts with 3 human partners:{Q08999;P06400;P28749}  
3792 Pathogen[ Q85601] interacts with 3 human partners:{Q08999;P06400;P28749}  
3793 Pathogen[ P14079] interacts with 2 human partners:{P28749;Q08999}  
3794 Pathogen[ P03383] interacts with 3 human partners:{Q08999;P06400;P28749}  
3795 Pathogen[ P03410] interacts with 3 human partners:{Q08999;P06400;P28749}  
3796 Pathogen[ P14075] interacts with 3 human partners:{Q08999;P06400;P28749}  
3797 Pathogen[ P0C206] interacts with 3 human partners:{P28749;Q08999;P06400}  
3798 Pathogen[ P03363] interacts with 3 human partners:{P06400;P28749;Q08999}  
3799 [Cluster 346]GO:0006356+P biological\_process [name] regulation of transcription from RNA polymerase I promoter [def] "Any process that modulates the frequency, rate or extent of transcription from an RNA polymerase I promoter." [GOC  
3800 Pathogen[ Q2Q067] interacts with 4 human partners:{Q00059;P62875;P53803;P17480}  
3801 Pathogen[ P0C214] interacts with 4 human partners:{P53803;Q00059;P17480;P62875}  
3802 Pathogen[ P03346] interacts with 5 human partners:{Q00059;P53803;P17480;Q01954;P62875}  
3803 Pathogen[ Q85601] interacts with 5 human partners:{P17480;P53803;Q00059;Q01954;P62875}  
3804 Pathogen[ P14079] interacts with 4 human partners:{P62875;P53803;P17480;Q00059}  
3805 Pathogen[ P03383] interacts with 4 human partners:{P53803;Q00059;P62875;P17480}  
3806 Pathogen[ P03410] interacts with 4 human partners:{Q00059;P53803;P62875;P17480}  
3807 Pathogen[ P14075] interacts with 4 human partners:{Q00059;P17480;P62875;P53803}  
3808 Pathogen[ P0C206] interacts with 5 human partners:{P62875;P53803;Q00059;P17480;Q01954}  
3809 Pathogen[ P03363] interacts with 4 human partners:{P17480;Q00059;Q01954;P53803}

3810 [Cluster 347]GO:0043162+P biological\_process [name] ubiquitin-dependent protein catabolic process via the multivesicular body sorting pathway [def] "The chemical reactions and pathways resulting in the breakdown of a protein or peptide covalently tagged with ubiquitin, via the multivesicular body (MVB) sorting pathway\_ ubiquitin-tagged proteins are sorted into MVBs, and delivered to a lysosome/vacuole for degradation." [GOC

3811 Pathogen[ Q2Q067] interacts with 2 human partners:{Q99816;O75674}

3812 Pathogen[ P0C214] interacts with 2 human partners:{Q99816;O75674}

3813 Pathogen[ P03346] interacts with 2 human partners:{Q99816;O75674}

3814 Pathogen[ Q85601] interacts with 2 human partners:{Q99816;O75674}

3815 Pathogen[ P14079] interacts with 2 human partners:{O75674;Q99816}

3816 Pathogen[ P03383] interacts with 1 human partners:{Q99816}

3817 Pathogen[ P03410] interacts with 2 human partners:{O75674;Q99816}

3818 Pathogen[ P14075] interacts with 1 human partners:{Q99816}

3819 Pathogen[ P0C206] interacts with 2 human partners:{Q99816;O75674}

3820 Pathogen[ P03363] interacts with 2 human partners:{O75674;Q99816}

3821 [Cluster 348]GO:0002098+P biological\_process [name] tRNA wobble uridine modification [def] "The process in which a uridine in position 34 of a tRNA is post-transcriptionally modified." [GOC

3822 Pathogen[ Q2Q067] interacts with 4 human partners:{Q7Z7A3;Q9Y2Z2;Q2VPK5;Q9BTM9}

3823 Pathogen[ P0C214] interacts with 5 human partners:{Q9BTM9;Q9Y2Z2;Q95396;Q2VPK5;Q7Z7A3}

3824 Pathogen[ P03346] interacts with 4 human partners:{Q9BTM9;Q9Y2Z2;Q7Z7A3;Q2VPK5}

3825 Pathogen[ Q85601] interacts with 4 human partners:{Q9Y2Z2;Q2VPK5;Q9BTM9;Q7Z7A3}

3826 Pathogen[ P14079] interacts with 4 human partners:{Q9Y2Z2;Q2VPK5;Q7Z7A3;Q9BTM9}

3827 Pathogen[ P03383] interacts with 4 human partners:{Q7Z7A3;Q9Y2Z2;Q9BTM9;Q2VPK5}

3828 Pathogen[ P03410] interacts with 4 human partners:{Q9Y2Z2;Q7Z7A3;Q2VPK5;Q9BTM9}

3829 Pathogen[ P14075] interacts with 4 human partners:{Q9BTM9;Q9Y2Z2;Q2VPK5;Q7Z7A3}

3830 Pathogen[ P0C206] interacts with 5 human partners:{Q9Y2Z2;Q2VPK5;Q95396;Q7Z7A3;Q9BTM9}

3831 Pathogen[ P03363] interacts with 3 human partners:{Q9BTM9;Q7Z7A3;Q2VPK5}

3832 [Cluster 349]GO:0071360+P biological\_process [name] cellular response to exogenous dsRNA [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an exogenous double-stranded RNA stimulus." [GOC

3833 Pathogen[ Q2Q067] interacts with 2 human partners:{Q7Z2W4;P09914}

3834 Pathogen[ P0C214] interacts with 3 human partners:{P09914;Q7Z2W4;Q86WV6}

3835 Pathogen[ P03346] interacts with 2 human partners:{P09914;Q7Z2W4}

3836 Pathogen[ Q85601] interacts with 3 human partners:{Q86WV6;Q7Z2W4;P09914}

3837 Pathogen[ P14079] interacts with 4 human partners:{P09914;Q7Z2W4;Q7Z434;Q86WV6}

3838 Pathogen[ P03383] interacts with 1 human partners:{Q7Z2W4}

3839 Pathogen[ P03410] interacts with 4 human partners:{Q7Z434;Q7Z2W4;Q86WV6;P09914}

3840 Pathogen[ P14075] interacts with 1 human partners:{Q7Z2W4}

3841 Pathogen[ P0C206] interacts with 3 human partners:{Q86WV6;Q7Z2W4;P09914}

3842 Pathogen[ P03363] interacts with 2 human partners:{P09914;Q7Z2W4}

3843 [Cluster 350]GO:2000505+P biological\_process [name] regulation of energy homeostasis [def] "Any process that modulates the frequency, rate or extent of energy homeostasis." [GOC

3844 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NP71}

3845 Pathogen[ P0C214] interacts with 1 human partners:{Q9NP71}

3846 Pathogen[ P03346] interacts with 2 human partners:{Q9NP71;Q12778}

3847 Pathogen[ Q85601] interacts with 1 human partners:{Q9NP71}

3848 Pathogen[ P14079] interacts with 1 human partners:{Q9NP71}

3849 Pathogen[ P03383] interacts with 1 human partners:{Q9NP71}

3850 Pathogen[ P03410] interacts with 1 human partners:{Q9NP71}

3851 Pathogen[ P14075] interacts with 1 human partners:{Q9NP71}

3852 Pathogen[ P0C206] interacts with 1 human partners:{Q9NP71}

3853 Pathogen[ P03363] interacts with 1 human partners:{Q9NP71}

3854 [Cluster 351]GO:0036031+P biological\_process [name] recruitment of mRNA capping enzyme to RNA polymerase II holoenzyme complex [def] "The process in which the guanylyltransferase enzyme responsible for adding a 7-methylguanosine cap on pre-mRNA becomes associated with the RNA polymerase II holoenzyme complex and the 5' end of a transcript." [GOC

3855 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BTL3}

3856 Pathogen[ P0C214] interacts with 1 human partners:{Q9BTL3}

3857 Pathogen[ P03346] interacts with 1 human partners:{Q9BTL3}

3858 Pathogen[ Q85601] interacts with 1 human partners:{Q9BTL3}

3859 Pathogen[ P14079] interacts with 1 human partners:{Q9BTL3}

3860 Pathogen[ P03383] interacts with 1 human partners:{Q9BTL3}

3861 Pathogen[ P03410] interacts with 1 human partners:{Q9BTL3}

3862 Pathogen[ P14075] interacts with 1 human partners:{Q9BTL3}

3863 Pathogen[ P0C206] interacts with 1 human partners:{Q9BTL3}

3864 Pathogen[ P03363] interacts with 1 human partners:{Q9BTL3}

3865 [Cluster 352]GO:0016192+P biological\_process [name] vesicle-mediated transport [def] "A cellular transport process in which transported substances are moved in membrane-bounded vesicles\_ transported substances are enclosed in the vesicle lumen or

located in the vesicle membrane. The process begins with a step that directs a substance to the forming vesicle, and includes vesicle budding and coating. Vesicles are then targeted to, and fuse with, an acceptor membrane." [GOC

- 3866 Pathogen[ Q2Q067] interacts with 83 human  
partners: {O15027;Q9H2G9;O94973;O00186;Q9Y6D6;Q9Y6Q5;Q99747;Q10567;P56377;O60664;O43747;O95782;Q92572;O14579;Q9BQD3;P55735;Q8WXE9;P53675;Q9P299;O75865;Q9UJY4;Q9UJY5;O43752;O14662;Q8IUR0;O43617;Q8WUH2;Q86SZ2;Q9HCH5;P48444;O00189;Q9H267;P63010;Q96PC3;Q96CW1;P61923;O95159;O43264;O75396;P53677;Q9UBF2;Q00610;P61966;Q9UL33;Q15437;P53992;O95486;P06396;O75843;Q9HD42;O94855;P0DI81;P0DI82;Q9UN37;Q9Y2T2;Q9H0R1;Q13439;Q53G59;Q9BX55;Q96JE7;Q13618;Q9UQF2;P54920;P53618;Q6NUQ1;O15155;P09497;O60763;Q15833;O75154;O95487;O75558;P35606;P49006;Q9Y678;Q9Y296;P09496;Q9P2W9;P49754;Q15436;Q9NZ52;Q13367;Q9BXF3}
- 3867 Pathogen[ P0C214] interacts with 84 human  
partners: {Q96CW1;Q15833;Q6NUQ1;P61923;P55735;O75865;P49006;P49754;Q9P299;Q99747;P53992;O43264;P59780;Q9UJY5;O14579;Q9Y2T2;O00189;Q13367;Q9HD42;P53618;P35606;O00186;P48444;Q9BQD3;Q9HCH5;P54920;Q13618;Q9Y296;Q9Y6Q2;O43617;P06396;Q9H0R1;Q15436;Q8IUR0;O75843;P63010;Q10567;Q92572;P53675;Q9UBF2;O95487;Q53G59;P49257;Q9UJY4;P53677;P56377;Q15437;Q9H2G9;Q96PC3;P0DI81;Q9NZ52;O43752;O60763;Q9UQF2;Q9BXF3;O43747;O94973;Q9Y6Q5;Q13439;P09497;O75396;Q9Y6D6;O60664;Q8WXE9;P61966;P09496;O95782;Q5T215;Q9UN37;O75558;Q96JE7;P53680;Q9Y678;Q8WUH2;Q9UL33;Q9BXS5;O15155;O15027;O95486;P0DI82;Q86SZ2;O75154;Q9P2W9;O94855}
- 3868 Pathogen[ P03346] interacts with 120 human  
partners: {Q13439;Q5JU85;Q15833;O60664;P61966;P55735;O43752;Q15438;O95159;Q9H115;Q9P2W9;O15027;Q9H2G9;Q9Y5R8;Q9Y6B7;Q9BXF3;P63010;Q9P253;O43747;Q9HD42;Q92572;P53680;P49754;P49257;P56377;Q9Y6D5;O75865;Q969X5;P59780;Q13618;Q9BXS5;Q9H0R1;Q86SZ2;Q9Y678;Q12981;O43264;O95782;P53618;Q9HCH5;Q13190;O75396;Q9P299;O14579;O00189;Q8WUH2;P09497;O00186;O94855;P48553;Q9BXW6;Q9Y6D6;Q10567;Q6NUQ1;O75843;P48444;Q9Y6Q2;P20340;Q15436;Q8WXE9;Q7Z3U7;Q9UL33;Q9UPM8;Q5T215;Q15437;Q9Y296;Q96JE7;Q9Y2L5;Q96CW1;Q96AX1;Q9UBF2;Q96PC3;P0DI81;Q9UJY4;P54920;P53675;Q6DN90;P61923;Q99829;O75131;O60763;Q8N157;Q8IUR0;O95486;Q13492;P0DI82;Q9ULV0;Q9UPP2;Q5JRA6;P09497;Q9HCU5;Q13367;P49006;Q9UQF2;O95487;Q96KG9;O14617;Q7Z392;P06396;Q9UJY5;O75154;P49755;O75558;Q9Y6Q5;P35606;Q9BQD3;O94973;O15155;Q9NZ52;O14662;Q9H267;Q00610;P53992;Q15363;P53677;Q99747;Q9UN37;O43617;Q86Y82;Q9Y2T2;Q8WU76}
- 3869 Pathogen[ Q85601] interacts with 98 human  
partners: {Q13367;P61163;O60664;O00186;P54920;P53675;O75843;O15027;P48444;Q00610;Q9Y2T2;P09496;P06396;O75154;Q9BXF3;Q6NUQ1;Q9UJY4;O75396;Q9UL33;Q9BQD3;Q96CW1;Q15833;O14579;O95487;Q9P253;Q13439;O60763;Q96JE7;Q9BXS5;P56377;Q9P299;O15155;Q12981;O43264;Q9HCH5;Q8WXE9;O43747;P61923;Q9UPM8;Q9Y296;Q9NP61;P49006;P49754;Q8WUH2;Q10567;Q9P2W9;Q9UJY5;Q15436;O43617;Q9UQF2;Q9H267;O43752;Q8N6H7;Q5T215;Q9Y6Q2;Q15437;Q9UBF2;P49257;Q8N6T3;Q9Y678;Q9Y2L5;P0DI81;P55735;O95159;P53680;O75558;O95486;O94973;Q9HCH5;P0DI82;P53618;Q9H2G9;Q9Y6B7;P09497;P53677;Q9Y6D6;Q96KG9;P63010;Q92572;O75865;P61966;Q13618;P59780;Q53G59;Q9Y6Q5;O94855;P35606;Q9NZ52;Q9UN37;O14662;Q9HD42;P53992;Q9H0R1;O00189;Q86SZ2;Q99747;O95782;Q8IUR0}
- 3870 Pathogen[ P14079] interacts with 123 human  
partners: {Q9BXW6;Q6NUQ1;Q13492;Q9Y296;Q96CW1;O95070;O95159;Q6ZVE7;Q9UL33;Q969M3;P49257;P61923;O15027;Q9UPP2;Q86SZ2;Q9Y6Q5;P61966;Q9BXS5;Q00610;Q9UJY4;O95487;O60664;Q9BRL7;Q96RQ1;Q9UJY5;P35606;Q9UQF2;Q9UPM8;Q8WVT3;Q13618;Q8N157;P49006;Q99829;Q10567;Q9Y6D5;P56377;O75865;Q9Y2T2;Q9Y678;Q9Y6B7;P59780;O94855;O00189;Q9HCH5;Q587I9;Q9HD42;P53992;Q13439;Q99747;O15155;Q96JE7;Q8IUR0;P33947;Q92572;Q9NZ52;Q15363;O75843;O75558;O75396;P24390;Q9H2G9;O00186;Q15833;O95782;Q5T215;Q969X5;P49755;Q9P299;Q9Y6D6;Q7Z392;Q9BXF3;Q5JRA6;Q9UBF2;Q96AX1;Q12981;Q9NZ43;Q9P253;P09497;O43264;Q9BQD3;P63010;P53677;O14662;Q9H115;O94973;P61163;P48444;Q9UN37;Q9Y5R8;Q13367;Q8WV19;Q9H0R1;Q8WXE9;O43747;O43752;O14579;P55735;P53675;O75154;Q9Y3E0;P0DI82;P49754;P48553;O14617;Q6DN90;P0DI81;O95486;Q53G59;O95235;Q96PC3;Q9P2W9;Q8WUH2;O43617;Q15438;P53680;P54920;P09496;O60763;Q9H267;Q96KG9;Q9Y2L5;O43731;Q9Y6Q2}
- 3871 Pathogen[ P03383] interacts with 66 human  
partners: {Q96CW1;Q9UJY4;P56377;Q00610;O14579;Q9BQD3;Q92572;P55735;P53618;Q9Y678;P54920;O95487;O43264;Q13439;Q9UL33;Q8WXE9;Q10567;O00186;P49006;Q9H2G9;O95486;Q9HCH5;Q9Y296;Q9Y6D6;Q9UQF2;P53675;P49754;O00189;P53677;Q15436;Q13618;Q8IUR0;Q99747;O75558;O75843;Q9Y2T2;P63010;Q53G59;O43747;Q15437;O94855;Q9UJY5;O43617;O75865;P0DI82;P0DI81;O95782;Q9UBF2;Q9HD42;O15027;Q96JE7;Q13367;P53992;O43752;Q6NUQ1;Q9BXS5;Q9BXF3;P09497;O60664;O94973;Q9UN37;O75154;Q86SZ2;P06396;Q8WUH2;Q9NZ52}
- 3872 Pathogen[ P03410] interacts with 133 human  
partners: {Q00610;P09496;P0DI82;Q9Y6Q5;Q9HCH5;Q9UPM8;O00203;O95782;Q96PC3;Q86SZ2;Q53G59;O75154;Q96CW1;Q9H267;Q9H2G9;O75865;Q15833;Q9NZ43;Q9Y2L5;Q9BXS5;Q13190;P53680;Q9H115;P49257;P49006;O94855;Q9NZ52;Q969X5;Q7Z392;P53992;Q9P299;O43747;Q9BXF3;O75843;P06396;Q9ULV0;P48553;Q9UL33;P48444;Q10567;P35606;Q5T215;Q92572;P33947;Q9P2W9;O14662;O14579;Q8WUH2;Q9P253;O60664;Q99829;Q9Y3E0;Q6NUQ1;Q9Y5R8;O14617;P61163;Q9UJY5;Q9Y6B7;Q8WXE9;Q8WU76;O43264;O95249;P0DI81;Q13492;Q13618;Q15436;O60763;O75396;Q96KG9;Q969M3;Q15437;Q8IUR0;Q96RQ1;O15155;Q9HD42;Q9Y2T2;Q9NP61;Q9UN37;Q9Y678;Q8N157;Q9UPP2;P09497;O95486;Q15049;Q15363;Q9Y6D6;P53618;P61923;Q9Y6D5;Q96JE7;P49754;Q9H0R1;P53677;Q15438;O75558;Q9HCU5;P24390;P63010;Q9Y296;O43752;O95159;O15027;Q587I9;P59780;Q9UQF2;O43731;Q6ZVE7;P55735;O00186;P53675;Q13439;Q12981;Q13367;O43617;Q9BQD3;P61966;Q7Z3U7;Q8WV19;O95562;Q8WVT3;O94973;P56377;Q99747;Q5JRA6;Q9Y6Q2;Q9UJY4;O95070;Q9BXW6;O95487;Q9UBF2;Q96AX1;Q9BRL7;P54920}
- 3873 Pathogen[ P14075] interacts with 68 human

partners: {O43617;P09497;Q9UJY4;Q9H2G9;Q96JE7;P09496;P49006;O94973;Q96CW1;O75558;O00186;Q13618;O43752;P53675;Q9Y2T2;Q9UBF2;Q6NUQ1;Q9BQD3;Q86SZ2;Q99747;Q53G59;Q9NZ52;P54920;Q9HCH5;O95159;O15027;Q9Y6D6;P53992;P55735;Q7Z392;O75865;O00189;O95487;P49754;Q15437;P53618;Q8WXE9;Q8IUR0;P0DI81;O95782;P06396;O43747;Q15436;Q92572;P63010;Q13439;Q9Y678;O75843;Q9HD42;P56377;Q8WUH2;O94855;Q9BXS5;O75154;Q9UL33;Q9BXF3;O43264;Q9Y296;O95486;Q9UQF2;Q10567;Q00610;Q9UJY5;Q13367;P0DI82;O60664;Q9UN37;O14579}

3874 Pathogen[ P0C206] interacts with 122 human  
partners: {Q13439;O14662;P53680;P63010;O14579;P0DI82;Q9Y678;Q15437;P53675;Q9Y6B7;Q9UN37;Q587I9;P06396;O94973;Q9Y296;Q8N6T3;O75865;O75396;Q9Y6Q5;Q92572;Q9Y6Q2;P53618;Q9P299;O43747;O94855;Q10567;P54920;Q6NUQ1;O60664;O75154;Q9Y6D6;O43752;Q9H0R1;Q9Y2L5;P49754;P61966;Q8WXE9;O95070;P49755;Q5JRA6;P48553;Q9UJY4;Q00610;P55735;Q9Y2T2;O75558;Q99829;Q9UQF2;Q96KG9;P09496;Q9NP61;P61163;P59780;P53677;Q9UPM8;Q9BXF3;Q9BXS5;O15155;Q13618;O95486;Q969M3;Q6ZVE7;Q9NZ52;P09497;Q9Y6D5;P35606;Q86SZ2;P33947;Q9UJY5;Q96JE7;P49006;P24390;P49257;O95487;O60763;Q96CW1;Q8WU76;Q96AX1;P48444;Q8N157;Q8WUH2;Q7Z392;Q8IUR0;O43617;O95782;O43731;Q9H2G9;Q99747;Q12981;Q5T215;Q9UBF2;Q9UPP2;Q969X5;Q9BXW6;O14617;Q9P253;Q9BQD3;O75843;Q9HD42;Q96RQ1;Q9UL33;P53992;Q15363;Q9Y5R8;Q9HCH5;Q53G59;Q8N6H7;Q96PC3;O15027;Q15833;O95159;O43264;O00189;Q9H267;Q13367;Q9P2W9;P56377;P0DI81;O00186;P61923;Q9BRL7;Q15436}

3875 Pathogen[ P03363] interacts with 83 human  
partners: {O60763;P49754;Q99829;Q9Y2T2;O60664;Q15438;Q8WXE9;Q13367;O43747;Q9UJY4;P48444;P0DI81;Q9UQF2;Q9UPP2;Q13439;Q9Y678;P53677;Q13618;Q9NZ52;O43264;Q6NUQ1;Q9UL33;P54920;Q9BQD3;O75558;Q15436;Q9Y2L5;Q8WU76;Q00610;Q9Y6B7;O14579;O95486;P53618;Q9BXS5;Q9P299;O94973;P61923;P0DI82;P06396;Q9P2W9;Q9BXF3;Q92572;P61163;Q9UN37;Q8N157;Q9H0R1;Q9BXW6;Q9H267;Q96KG9;P63010;Q53G59;O00189;O00186;O75154;O95782;Q9H2G9;Q5JU85;P35606;Q8WUH2;O14662;Q9UBF2;P53992;O75843;Q6DN90;O95487;Q9Y296;O43617;Q9HCH5;Q9Y6D6;P48553;P49006;Q9UJY5;P09497;O43752;P53675;P55735;Q99747;O94855;Q10567;Q9HD42;Q96CW1;Q15833;Q9UPM8}

3876 [Cluster 353]GO:0007379+P biological\_process [name] segment specification [def] "The process in which segments assume individual identities\_ exemplified in insects by the actions of the products of the homeotic genes." [http

3877 Pathogen[ Q2Q067] interacts with 5 human  
partners: {O43364;Q9Y5Q3;P42568;O14641;P35226}

3878 Pathogen[ P0C214] interacts with 4 human partners: {P35226;Q9Y5Q3;P42568;O14641}

3879 Pathogen[ P03346] interacts with 6 human  
partners: {P35226;Q9Y5Q3;O43364;O14641;A6NI15;P42568}

3880 Pathogen[ Q85601] interacts with 5 human  
partners: {P42568;O43364;Q9Y5Q3;O14641;P35226}

3881 Pathogen[ P14079] interacts with 5 human  
partners: {Q9Y5Q3;O43364;O14641;P42568;P35226}

3882 Pathogen[ P03383] interacts with 4 human partners: {Q9Y5Q3;O14641;P42568;P35226}

3883 Pathogen[ P03410] interacts with 5 human  
partners: {Q9Y5Q3;O43364;P42568;P35226;O14641}

3884 Pathogen[ P14075] interacts with 4 human partners: {P42568;O14641;Q9Y5Q3;P35226}

3885 Pathogen[ P0C206] interacts with 4 human partners: {Q9Y5Q3;P35226;P42568;O43364}

3886 Pathogen[ P03363] interacts with 5 human  
partners: {P35226;P42568;O43364;O14641;Q9Y5Q3}

3887 [Cluster 354]GO:0061029+P biological\_process [name] eyelid development in camera-type eye [def] "The progression of the eyelid in a camera-type eye from its formation to the mature state. The eyelid is a membranous cover that helps protect and lubricate the eye." [GOC

3888 Pathogen[ Q2Q067] interacts with 3 human partners: {Q13547;P11831;Q92769}

3889 Pathogen[ P0C214] interacts with 3 human partners: {Q13547;P11831;Q92769}

3890 Pathogen[ P03346] interacts with 3 human partners: {P11831;Q92769;Q13547}

3891 Pathogen[ Q85601] interacts with 3 human partners: {P11831;Q92769;Q13547}

3892 Pathogen[ P14079] interacts with 1 human partners: {Q92769}

3893 Pathogen[ P03383] interacts with 3 human partners: {P11831;Q92769;Q13547}

3894 Pathogen[ P03410] interacts with 3 human partners: {P11831;Q92769;Q13547}

3895 Pathogen[ P14075] interacts with 3 human partners: {P11831;Q13547;Q92769}

3896 Pathogen[ P0C206] interacts with 3 human partners: {Q92769;Q13547;P11831}

3897 Pathogen[ P03363] interacts with 2 human partners: {P11831;Q13547}

3898 [Cluster 355]GO:0090343+P biological\_process [name] positive regulation of cell aging [def] "Any process that increases the rate, frequency, or extent of cell aging. Cell aging is the progression of the cell from its inception to the end of its lifespan." [GOC

3899 Pathogen[ Q2Q067] interacts with 1 human partners: {P02545}

3900 Pathogen[ P0C214] interacts with 1 human partners: {P02545}

3901 Pathogen[ P03346] interacts with 1 human partners: {P02545}

3902 Pathogen[ Q85601] interacts with 1 human partners: {P02545}

3903 Pathogen[ P14079] interacts with 1 human partners: {P02545}

3904 Pathogen[ P03383] interacts with 1 human partners: {P02545}

3905 Pathogen[ P03410] interacts with 1 human partners: {P02545}

3906 Pathogen[ P14075] interacts with 1 human partners: {P02545}

3907 Pathogen[ P0C206] interacts with 1 human partners: {P02545}

3908 Pathogen[ P03363] interacts with 1 human partners: {P02545}

3909 [Cluster 356]GO:0006906+P biological\_process [name] vesicle fusion [def] "Fusion of the membrane of a transport vesicle with its target membrane." [GOC

3910 Pathogen[ Q2Q067] interacts with 1 human partners:{043752}

3911 Pathogen[ P0C214] interacts with 1 human partners:{043752}

3912 Pathogen[ P03346] interacts with 1 human partners:{043752}

3913 Pathogen[ Q85601] interacts with 1 human partners:{043752}

3914 Pathogen[ P14079] interacts with 3 human partners:{Q12912;Q15075;043752}

3915 Pathogen[ P03383] interacts with 1 human partners:{043752}

3916 Pathogen[ P03410] interacts with 2 human partners:{Q12912;043752}

3917 Pathogen[ P14075] interacts with 1 human partners:{043752}

3918 Pathogen[ P0C206] interacts with 2 human partners:{043752;Q12912}

3919 Pathogen[ P03363] interacts with 1 human partners:{043752}

3920 [Cluster 357]GO:0008045+P biological\_process [name] motor axon guidance [def] "The process in which the migration of an axon growth cone of a motor neuron is directed to a specific target site in response to a combination of attractive and repulsive cues." [ISBN

3921 Pathogen[ Q2Q067] interacts with 4 human partners:{043364;P11161;P49639;P43268}

3922 Pathogen[ P0C214] interacts with 3 human partners:{P49639;P43268;P11161}

3923 Pathogen[ P03346] interacts with 9 human partners:{P49639;O75592;P50219;Q9NQ69;O43364;Q969G2;P11161;Q9UBR4;P43268}

3924 Pathogen[ Q85601] interacts with 4 human partners:{P49639;O43364;P43268;P11161}

3925 Pathogen[ P14079] interacts with 4 human partners:{O43364;P11161;O60282;P49639}

3926 Pathogen[ P03383] interacts with 3 human partners:{P49639;P43268;P11161}

3927 Pathogen[ P03410] interacts with 5 human partners:{O60282;P43268;O43364;P49639;P11161}

3928 Pathogen[ P14075] interacts with 2 human partners:{P43268;P11161}

3929 Pathogen[ P0C206] interacts with 6 human partners:{P11161;P49639;P43268;Q969G2;O43364;Q9UBR4}

3930 Pathogen[ P03363] interacts with 6 human partners:{P43268;P49639;O60282;O43364;P50219;P11161}

3931 [Cluster 358]GO:0006265+P biological\_process [name] DNA topological change [def] "The process in which a transformation is induced in the topological structure of a double-stranded DNA helix, resulting in a change in linking number." [ISBN

3932 Pathogen[ Q2Q067] interacts with 2 human partners:{P11387;P11388}

3933 Pathogen[ P0C214] interacts with 2 human partners:{P11388;P11387}

3934 Pathogen[ P03346] interacts with 2 human partners:{P11388;P11387}

3935 Pathogen[ Q85601] interacts with 3 human partners:{P11387;P11388;P19447}

3936 Pathogen[ P14079] interacts with 4 human partners:{P11388;Q13472;Q969P6;P19447}

3937 Pathogen[ P03383] interacts with 1 human partners:{P11387}

3938 Pathogen[ P03410] interacts with 4 human partners:{Q13472;P19447;P11387;P11388}

3939 Pathogen[ P14075] interacts with 1 human partners:{P11387}

3940 Pathogen[ P0C206] interacts with 4 human partners:{P19447;P11388;P11387;Q13472}

3941 Pathogen[ P03363] interacts with 2 human partners:{P11387;Q13472}

3942 [Cluster 359]GO:0048193+P biological\_process [name] Golgi vesicle transport [def] "The directed movement of substances into, out of or within the Golgi apparatus, mediated by vesicles." [GOC

3943 Pathogen[ Q2Q067] interacts with 3 human partners:{043752;O60763;P49754}

3944 Pathogen[ P0C214] interacts with 3 human partners:{P49754;O43752;O60763}

3945 Pathogen[ P03346] interacts with 4 human partners:{043752;P49754;O60763;Q08AE8}

3946 Pathogen[ Q85601] interacts with 3 human partners:{O60763;P49754;O43752}

3947 Pathogen[ P14079] interacts with 4 human partners:{Q08AE8;O43752;P49754;O60763}

3948 Pathogen[ P03383] interacts with 2 human partners:{P49754;O43752}

3949 Pathogen[ P03410] interacts with 4 human partners:{Q08AE8;O60763;P49754;O43752}

3950 Pathogen[ P14075] interacts with 2 human partners:{043752;P49754}

3951 Pathogen[ P0C206] interacts with 4 human partners:{043752;P49754;O60763;Q08AE8}

3952 Pathogen[ P03363] interacts with 4 human partners:{O60763;P49754;Q08AE8;O43752}

3953 [Cluster 360]GO:0001780+P biological\_process [name] neutrophil homeostasis [def] "The process of regulating the proliferation and elimination of neutrophils such that the total number of neutrophils within a whole or part of an organism is stable over time in the absence of an outside stimulus." [GOC

3954 Pathogen[ Q2Q067] interacts with 1 human partners:{Q03112}

3955 Pathogen[ P0C214] interacts with 1 human partners:{Q03112}

3956 Pathogen[ P03346] interacts with 1 human partners:{Q03112}

3957 Pathogen[ Q85601] interacts with 1 human partners:{Q03112}

3958 Pathogen[ P14079] interacts with 1 human partners:{P04083}

3959 Pathogen[ P03383] interacts with 1 human partners:{Q03112}

3960 Pathogen[ P03410] interacts with 1 human partners:{Q03112}

3961 Pathogen[ P14075] interacts with 1 human partners:{Q03112}

3962 Pathogen[ P0C206] interacts with 1 human partners:{Q03112}

3963 Pathogen[ P03363] interacts with 1 human partners:{Q03112}

3964 [Cluster 361]GO:0006954+P biological\_process [name] inflammatory response [def] "The immediate defensive reaction (by vertebrate tissue) to infection or injury caused by chemical or physical agents. The process is characterized by local vasodilation, extravasation of plasma into intercellular spaces and accumulation of white blood cells and macrophages." [GO\_REF

3965 Pathogen[ Q2Q067] interacts with 34 human partners:{P01100;Q96J02;P09917;P31749;Q8IUC6;P56524;Q9UKV0;Q16666;Q12986;Q99497;Q04206;Q15025;O15350;Q14934;P17676;P78545;Q13287;Q9UQL6;O75582;O14862;Q9Y6K9;Q12904;Q6P4



- 3966 R8;P19838;Q12968;Q8NFZ5;O14920;Q9BYH8;P63000;Q9UKK3;Q8NE71;O15111;Q15797;Q03112}  
Pathogen[ P0C214] interacts with 38 human  
partners: {Q96J02;Q8WV28;P09917;P63000;Q12904;O15111;Q9NPP4;Q9Y6K9;P19838;Q8IUC6;P01011;O15350;Q03112;P01100;Q9BYH8;P56524;Q12986;Q04206;Q16666;Q99497;P17676;Q12968;Q8NE71;Q6P4R8;Q9UKV0;Q9H0E2;Q15025;Q14934;O75582;Q8NFZ5;Q9UKK3;O14862;P78545;Q15797;Q13287;O14920;Q9UQL6;P31749}
- 3967 Pathogen[ P03346] interacts with 38 human  
partners: {Q9Y6K9;Q96J02;Q16666;O15111;P17676;Q15797;Q8NFZ5;Q9UKK3;P56524;Q12986;Q04206;O15350;Q13287;Q9H0E2;Q9BYH8;Q14934;Q12904;Q12968;P09917;Q9NPP4;P31749;Q03112;Q15025;O75582;Q99497;Q8IUC6;Q9UKV0;Q8NE71;Q6P4R8;P19838;Q8WV28;O14920;P78545;O14862;P01100;P63000;Q9UQL6;Q9Y263}
- 3968 Pathogen[ Q85601] interacts with 34 human  
partners: {Q96J02;Q99497;Q9UKV0;P17676;Q16666;P31749;Q8IUC6;Q9UQL6;P09917;O15111;Q15797;Q03112;P78545;Q9UKK3;P63000;P01011;P01100;Q14934;Q9Y6K9;Q12968;Q8NFZ5;O14920;Q04206;Q15025;Q6P4R8;O14862;O75582;Q8NE71;Q9BYH8;P56524;O15350;P19838;Q13287;Q12986}
- 3969 Pathogen[ P14079] interacts with 40 human  
partners: {P04083;Q9UQL6;Q96KP6;Q12986;O43187;O15553;P13498;O75582;Q9BYH8;Q8IUC6;Q99497;Q9UKV0;Q12968;Q15025;Q8NEV9;Q15797;Q9UKK3;O15350;Q8WV28;Q8NFZ5;Q14934;Q9Y6K9;Q8NE71;Q9Y263;P09917;Q96J02;O14862;Q6P4R8;Q16878;Q9Y6Y9;P78545;Q12904;Q9H0E2;P56524;Q13287;Q9Y239;P01100;Q99836;Q16666;Q9NPP4}
- 3970 Pathogen[ P03383] interacts with 30 human  
partners: {O75582;Q12904;O14862;Q9Y6K9;Q8IUC6;Q6P4R8;Q9UQL6;O14920;Q12986;Q8NE71;P31749;O15111;P63000;Q15797;Q13287;Q14934;Q03112;P17676;Q15025;Q12968;O15350;Q16666;Q9UKK3;P01100;Q9UKV0;P56524;Q04206;P78545;P19838;Q8NFZ5}
- 3971 Pathogen[ P03410] interacts with 44 human  
partners: {Q9UKV0;Q04206;P19838;Q03112;Q16666;O14920;Q8NE71;Q9Y239;Q99497;Q8NFZ5;P63000;P17676;Q12968;O15111;Q9HBL7;O75582;P78545;O14862;O43187;Q8WV28;P31749;Q9NPP4;Q15025;Q9BYH8;P01100;Q12904;Q9UQL6;Q12986;Q13287;P56524;Q15797;Q96KP6;Q6P4R8;Q8NEV9;Q9H0E2;Q9Y263;Q9Y6Y9;Q8IUC6;O15350;Q9UKK3;P09917;Q9Y6K9;Q14934;P01011}
- 3972 Pathogen[ P14075] interacts with 29 human  
partners: {Q6P4R8;O15111;Q04206;P78545;O75582;Q13287;P56524;Q9UKV0;Q16666;Q8NFZ5;O14920;P31749;Q12986;O15350;Q12904;O14862;Q15025;Q14934;Q8NE71;Q03112;P63000;Q8IUC6;P01100;P19838;Q9UQL6;Q9Y6K9;P17676;Q12968;Q9UKK3}
- 3973 Pathogen[ P0C206] interacts with 36 human  
partners: {P09917;O14920;P31749;Q9Y6K9;O14862;O75582;Q9UKV0;Q96J02;Q8NFZ5;Q16666;Q12968;Q99497;Q13287;Q15025;Q9H0E2;P19838;Q03112;P63000;Q9UKK3;P17676;Q12986;P01100;Q04206;O15111;P78545;Q9BYH8;Q8NE71;Q14934;Q8IUC6;Q15797;O15350;P01011;P56524;Q6P4R8;Q12904;Q9UQL6}
- 3974 Pathogen[ P03363] interacts with 31 human  
partners: {Q13151;Q9Y263;O14920;Q04206;P17676;Q03112;O15111;Q8WV28;Q9Y6K9;Q9UQL6;Q15797;P63000;Q12986;Q16666;P78545;P31749;Q9UKK3;Q9UKV0;Q9H0E2;P19838;O14862;Q12968;Q15025;Q8NE71;Q14934;Q8NFZ5;Q9NPP4;Q13287;Q9BYH8;Q6P4R8;P01100}
- 3975 [Cluster 362]GO:0006418+P biological\_process [name] tRNA aminoacylation for protein translation [def] "The synthesis of aminoacyl tRNA by the formation of an ester bond between the 3'-hydroxyl group of the most 3' adenosine of the tRNA, to be used in ribosome-mediated polypeptide synthesis." [GOC
- 3976 Pathogen[ Q2Q067] interacts with 24 human  
partners: {Q95363;Q9H2U2;P23381;P49591;Q9Y285;Q15046;Q15181;Q9NSD9;Q5T160;Q96I59;O43776;P41252;Q12904;P07814;Q13155;P54136;Q6PI48;Q9HA77;Q9BW92;P41250;P49589;O43324;Q9P2J5;P14868}
- 3977 Pathogen[ P0C214] interacts with 42 human  
partners: {P41250;P49589;Q9NSE4;Q12904;Q7L3T8;O95363;Q9UGM6;Q96I59;Q9NP81;P12081;P23381;P49590;P07814;Q9Y285;P41252;Q5JTP6;Q5JPH6;O43776;Q15031;P14868;P49591;P56192;P26639;P54577;A2RTX5;O43324;Q9HA77;P49588;Q96GW9;Q5T160;P47897;Q9BW92;Q6PI48;Q5D0E6;Q15181;Q9NSD9;P26640;Q15046;Q5ST30;Q13155;Q9Y2Z4;Q9P2J5}
- 3978 Pathogen[ P03346] interacts with 16 human  
partners: {P23381;Q9H2U2;P07814;O43776;P41252;P41250;Q13155;Q12904;Q9Y285;Q9P2J5;O43324;P54136;P14868;P49589;Q15181;Q6PI48}
- 3979 Pathogen[ Q85601] interacts with 26 human  
partners: {P54136;O43324;Q9NSD9;P26639;P14868;P49589;Q9P2J5;Q13155;P07814;P23381;Q15046;O43776;Q9BW92;Q9Y285;Q9HA77;P41250;Q5T160;Q5D0E6;Q9H2U2;A2RTX5;Q96I59;O95363;P47897;Q6PI48;P41252;Q15181}
- 3980 Pathogen[ P14079] interacts with 40 human  
partners: {Q9Y285;P23381;P26639;Q96GW9;Q9P2J5;Q7L3T8;Q9BW92;P54136;Q15031;Q5T160;Q5ST30;Q9NP81;P47897;O95363;P49591;A2RTX5;P14868;Q9HA77;O43776;Q5JPH6;Q9H2U2;P49589;Q15046;P41252;P41250;Q96I59;P26640;P56192;Q9NSD9;Q15181;Q9Y2Z4;Q9UGM6;Q9NSE4;Q13155;Q5D0E6;Q12904;P49588;Q6PI48;P07814;O43324}
- 3981 Pathogen[ P03383] interacts with 32 human  
partners: {Q9Y285;Q9H2U2;Q12904;Q9P2J5;P14868;Q5D0E6;Q5JPH6;P49589;Q5T160;Q15031;Q9NP81;O43324;Q13155;P23381;Q96I59;Q15046;A2RTX5;Q9Y2Z4;O95363;P07814;Q96GW9;Q9HA77;Q15181;O43776;Q6PI48;P41250;P41252;P54136;Q9NSD9;P49591;Q7L3T8;Q9BW92}
- 3982 Pathogen[ P03410] interacts with 39 human  
partners: {Q9Y285;Q9HA77;Q13155;Q9NSE4;P56192;P49589;Q5ST30;Q9BW92;P49588;P54136;P23381;Q7L3T8;O43776;P47897;P14868;Q9H2U2;Q5D0E6;Q12904;Q9NSD9;Q9P2J5;P49591;P26639;Q96I59;P41250;Q15046;O43324;Q5JPH6;Q9UGM6;P41252;Q9Y2Z4;P26640;Q96GW9;P07814;Q9NP81;A2RTX5;Q15181;O95363;Q6PI48;Q5T160}

3983 Pathogen[ P14075] interacts with 35 human partners: {Q9Y2Z4;P54136;Q13155;P41250;Q5D0E6;P23381;Q9NSD9;P41252;Q95363;Q96GW9;Q9HA77;Q9NP81;Q9Y285;Q7L3T8;P56192;Q12904;A2RTX5;Q9BW92;O43776;P14868;Q5T160;Q9P2J5;Q9H2U2;P26639;Q6PI48;Q96I59;P49589;O43324;Q5JPH6;Q15046;Q9NSE4;Q15031;P49591;Q15181;P07814}

3984 Pathogen[ P0C206] interacts with 39 human partners: {P49589;Q95363;Q9NSE4;O43324;P07814;Q9Y2Z4;P41252;Q6PI48;Q5ST30;A2RTX5;Q9UGM6;Q5JPH6;Q9NP81;Q9HA77;P41250;P26640;P49591;O43776;Q9Y285;Q9NSD9;Q5D0E6;Q5T160;Q9BW92;Q9H2U2;P56192;P54136;Q13155;P26639;Q15031;Q7L3T8;Q9P2J5;P23381;P47897;P14868;Q96GW9;Q12904;Q96I59;Q15046;Q15181}

3985 Pathogen[ P03363] interacts with 27 human partners: {Q9Y2Z4;Q9H2U2;P41252;Q9NSD9;A2RTX5;Q96I59;P14868;P49589;P41250;P47897;Q5JPH6;O43776;P23381;Q13155;P54136;Q6PI48;Q95363;Q9P2J5;Q9BW92;P49591;Q9Y285;Q7L3T8;Q15031;P07814;Q15181;Q5T160;O43324}

3986 [Cluster 363]GO:0035066+P biological\_process [name] positive regulation of histone acetylation [def] "Any process that activates or increases the frequency, rate or extent of the addition of an acetyl group to a histone protein." [GOC]

3987 Pathogen[ Q2Q067] interacts with 3 human partners: {Q6ZW49;Q9NPI1;O75582}

3988 Pathogen[ P0C214] interacts with 3 human partners: {Q6ZW49;O75582;Q9NPI1}

3989 Pathogen[ P03346] interacts with 3 human partners: {Q9NPI1;O75582;Q6ZW49}

3990 Pathogen[ Q85601] interacts with 3 human partners: {O75582;Q6ZW49;Q9NPI1}

3991 Pathogen[ P14079] interacts with 3 human partners: {Q9NPI1;O75582;Q6ZW49}

3992 Pathogen[ P03383] interacts with 3 human partners: {O75582;Q6ZW49;Q9NPI1}

3993 Pathogen[ P03410] interacts with 3 human partners: {O75582;Q6ZW49;Q9NPI1}

3994 Pathogen[ P14075] interacts with 3 human partners: {Q9NPI1;O75582;Q6ZW49}

3995 Pathogen[ P0C206] interacts with 3 human partners: {Q9NPI1;Q6ZW49;O75582}

3996 Pathogen[ P03363] interacts with 2 human partners: {Q9NPI1;Q6ZW49}

3997 [Cluster 364]GO:0060244+P biological\_process [name] negative regulation of cell proliferation involved in contact inhibition [def] "Any process that stops, prevents or reduces the rate or extent of cell proliferation in response to cell density." [GOC]

3998 Pathogen[ Q2Q067] interacts with 1 human partners: {Q9UI36}

3999 Pathogen[ P0C214] interacts with 1 human partners: {Q9UI36}

4000 Pathogen[ P03346] interacts with 1 human partners: {Q9UI36}

4001 Pathogen[ Q85601] interacts with 1 human partners: {Q9UI36}

4002 Pathogen[ P14079] interacts with 1 human partners: {Q9UI36}

4003 Pathogen[ P03383] interacts with 1 human partners: {Q9UI36}

4004 Pathogen[ P03410] interacts with 1 human partners: {Q9UI36}

4005 Pathogen[ P14075] interacts with 1 human partners: {Q9UI36}

4006 Pathogen[ P0C206] interacts with 1 human partners: {Q9UI36}

4007 Pathogen[ P03363] interacts with 1 human partners: {Q9UI36}

4008 [Cluster 365]GO:0000712+P biological\_process [name] resolution of meiotic recombination intermediates [def] "The cleavage and rejoining of intermediates, such as Holliday junctions, formed during meiotic recombination to produce two intact molecules in which genetic material has been exchanged." [GOC]

4009 Pathogen[ Q2Q067] interacts with 6 human partners: {Q92889;Q8N2Z9;A8MT69;P11388;Q8IYF3;Q8IYD8}

4010 Pathogen[ P0C214] interacts with 6 human partners: {Q92889;Q8N2Z9;P11388;P40692;Q8IYF3;Q8IYD8}

4011 Pathogen[ P03346] interacts with 6 human partners: {Q8N2Z9;P11388;A8MT69;Q8IYF3;Q92889;Q8IYD8}

4012 Pathogen[ Q85601] interacts with 7 human partners: {Q8IYD8;Q8IYF3;Q92889;A8MT69;P11388;Q8N2Z9;P40692}

4013 Pathogen[ P14079] interacts with 7 human partners: {P11388;Q8IYD8;P40692;Q8N2Z9;Q92889;A8MT69;Q8IYF3}

4014 Pathogen[ P03383] interacts with 3 human partners: {Q8N2Z9;Q8IYF3;A8MT69}

4015 Pathogen[ P03410] interacts with 7 human partners: {P40692;Q8IYD8;Q92889;P11388;A8MT69;Q8IYF3;Q8N2Z9}

4016 Pathogen[ P14075] interacts with 3 human partners: {A8MT69;Q8N2Z9;Q8IYF3}

4017 Pathogen[ P0C206] interacts with 7 human partners: {Q8IYD8;P40692;Q92889;Q8IYF3;P11388;Q8N2Z9;A8MT69}

4018 Pathogen[ P03363] interacts with 4 human partners: {Q92889;Q8N2Z9;Q8IYD8;A8MT69}

4019 [Cluster 366]GO:0016078+P biological\_process [name] tRNA catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of tRNA, transfer RNA, a class of relatively small RNA molecules responsible for mediating the insertion of amino acids into the sequence of nascent polypeptide chains during protein synthesis." [GOC]

4020 Pathogen[ Q2Q067] interacts with 1 human partners: {Q99575}

4021 Pathogen[ P0C214] interacts with 1 human partners: {Q99575}

4022 Pathogen[ P03346] interacts with 1 human partners: {Q99575}

4023 Pathogen[ Q85601] interacts with 1 human partners: {Q99575}

4024 Pathogen[ P14079] interacts with 1 human partners: {Q99575}

4025 Pathogen[ P03383] interacts with 1 human partners: {Q99575}

4026 Pathogen[ P03410] interacts with 1 human partners: {Q99575}

4027 Pathogen[ P14075] interacts with 1 human partners: {Q99575}

4028 Pathogen[ P0C206] interacts with 1 human partners: {Q99575}

4029 Pathogen[ P03363] interacts with 1 human partners: {Q99575}

4030 [Cluster 367]GO:0007165+P biological\_process [name] signal transduction [def] "The

cellular process in which a signal is conveyed to trigger a change in the activity or state of a cell. Signal transduction begins with reception of a signal (e.g. a ligand binding to a receptor or receptor activation by a stimulus such as light), or for signal transduction in the absence of ligand, signal-withdrawal or the activity of a constitutively active receptor. Signal transduction ends with regulation of a downstream cellular process, e.g. regulation of transcription or regulation of a metabolic process. Signal transduction covers signaling from receptors located on the surface of the cell and signaling via molecules located within the cell. For signaling between cells, signal transduction is restricted to events at and within the receiving cell." [GOC

- 4031 Pathogen[ Q2Q067] interacts with 156 human partners: {Q2783;P27540;P30281;O00213;O75161;Q96FV9;P31749;Q9Y2Y0;Q9UNS2;O14786;O60239;Q9HBZ2;Q04726;P63104;Q9UD71;Q96C74;Q8WYA1;P29692;P40763;Q13352;P63151;Q92636;P10589;O14974;P53675;P62826;Q15596;O96019;P41970;Q15653;Q13077;Q12933;O43639;Q13625;Q6P1N0;Q14511;P55345;Q9HB58;P18850;Q8WUH2;P07900;P06748;Q66LE6;Q15172;Q13522;Q13158;O15117;P11308;Q8NEU8;P11473;Q86UL8;O00170;Q9NZQ3;P61978;O43823;Q96B67;O60711;Q14765;Q5TB30;Q9Y297;Q15173;Q9UQB3;Q96L92;Q9UIV1;Q99743;P78352;Q9UGP4;Q04695;Q07666;P67870;Q8WWW0;P31949;Q13330;Q12904;Q13114;P29474;Q9Y2N7;Q99732;Q96CV9;Q9UHY8;Q00005;Q9UGK8;P78560;P35869;Q9H160;Q9HB75;Q15185;P10599;A6NK89;P50749;P53805;P53041;Q99996;P50570;Q04725;O75312;P62879;Q9UQF2;Q9UN36;P19838;P81274;Q02833;Q99962;O15397;Q02952;O95373;P61201;P52630;P08235;Q9UKN5;Q15628;Q04724;Q9NS23;Q00653;O43318;Q9ULZ2;Q9H4B6;Q9H2L5;O14964;Q9P1Z2;P27986;O94916;Q92844;Q92793;Q92734;Q92845;P43487;P78347;P35232;Q9UKG1;Q16537;Q03060;P42226;P11802;O00463;Q99717;Q02040;P78318;Q86WH2;P27815;Q9UMX1;Q99814;Q9NR46;P42224;Q9NXR7;P22736;Q15759;Q15797;O43660;P23508;Q9H0E9;Q8N108;O75901;Q9UKL3;Q14738;Q9UBS8}
- 4032 Pathogen[ P0C214] interacts with 166 human partners: {P41970;Q9UGP4;Q02833;O00170;P29474;P18850;Q96B67;Q96FV9;O00213;Q9UKN5;O75161;P11308;O15117;Q00653;O60239;Q16537;O14786;Q12904;P35869;Q13330;Q8WWW0;P16157;Q9H2L5;Q9NRR8;Q00005;P78318;P19838;Q15628;Q9NS23;Q13625;Q5TB30;P81274;P06748;P27815;P43487;P42226;Q13158;Q14765;P11802;P31150;Q99743;Q92793;P61201;Q15172;P29692;Q66LE6;O14964;P42224;Q92734;P55345;Q04724;Q9Y297;Q99962;Q15653;Q9UKG1;P46060;Q9UNS2;O43318;O43639;Q9UD71;Q9H0M0;Q9UIV1;P50749;O14974;Q9NR46;Q9HBZ2;Q8IXF0;O75312;Q9UQB3;Q9Y2N7;P45877;Q9UHY8;Q86WH2;Q99732;P53675;Q92844;Q16881;Q9UKL3;Q15173;Q04726;Q9H4B6;Q04695;Q08AM6;Q07666;O75901;Q96L92;Q12933;P30281;P78347;Q8NEU8;P63151;Q13522;Q13352;Q8N108;P54577;Q9H0E2;Q9H160;O43823;Q9NXG0;Q9UBS8;O60711;Q9HB75;Q8WYA1;Q96CV9;P62879;Q9ULZ2;P53041;Q14511;Q9UQF2;Q9H0E9;Q92845;P62826;Q07343;Q9NV92;Q14738;Q13114;P31949;Q03060;Q15759;Q04725;Q99814;Q9NZQ3;P10599;Q9HB58;Q9Y2Y0;Q9UGK8;Q99717;P78560;P40763;O76083;P27540;Q9NXR7;Q6P1N0;O94916;P23508;P50570;Q92636;Q9P1Z2;Q99996;Q8NHQ8;Q15596;Q15797;P67870;P16220;Q92783;P35232;O00463;P53805;Q96C74;Q02040;P52630;P98171;Q15185;Q8WUH2;Q99704;P27986;O95373;P43490;Q9UN36;Q9UMX1;A6NK89;O43660;O96019;P31749;O15397}
- 4033 Pathogen[ P03346] interacts with 216 human partners: {Q15172;Q66LE6;P53805;Q96FV9;P30281;O00213;Q13077;O00463;P61978;Q99742;O60239;P11473;P50570;Q15788;O15397;Q00005;Q9UGP4;Q13362;P07900;P29373;Q14511;Q96RT1;P16220;P98171;Q92734;P06401;Q9UIV1;P06748;P29474;Q15036;O43639;O75901;P23508;P08235;Q13158;P78352;O75312;Q15797;Q15653;P78347;Q13322;Q9ULZ2;Q99962;P43487;Q96FS4;Q9NXG0;Q15185;O00170;Q13835;Q5TB30;P42226;P29692;P10588;Q13522;P06703;P27540;Q15942;Q99717;Q9Y5K6;Q8WUH2;Q15269;Q13114;Q9NV92;P55196;Q9H0E2;P16157;O15055;P62826;P62879;O15534;Q9H0E9;P11802;P18850;Q9Y371;Q8TF05;Q9Y3P8;Q9UQB3;Q15555;P78560;Q6P1N0;Q96B67;O00299;Q6ZTQ3;Q07666;A6NK89;O75161;O00327;Q9UKL3;Q12904;P11308;Q04726;Q04695;Q96CV9;Q7Z3T8;O96019;Q9UHY8;Q8IXF0;Q9NXR7;P22736;Q8NEU8;Q9H2L5;Q86UL8;O43660;Q96L92;P81274;P31749;Q15596;O60519;Q9Y4H4;P46060;Q9NZQ3;Q9UD71;O95373;P31150;Q9UBG7;Q9UBG7;P27815;Q04725;Q9Y2N7;Q9P1Z2;Q04724;P55345;Q14738;Q13330;Q02952;Q99704;P53675;Q99814;Q13625;P53041;Q12929;P50749;P42224;P35659;P78314;O95833;Q9HBZ2;Q14190;Q9UBS8;O75469;Q15628;Q96T49;Q9BUZ4;Q16537;Q9BWF2;P61201;Q8WWW0;P63104;Q8N108;Q15759;Q99996;P45985;Q96C74;Q92783;Q9UKG1;P41970;Q9HB58;P51858;Q9UQF2;Q9UGK8;P10599;A9YTQ3;P35232;Q92636;O14964;P19838;Q03060;Q9H4B6;Q8WYA1;Q92845;O94916;P67870;Q9H0M0;Q02040;Q9UNS2;O15516;O43318;Q92793;O15117;P35869;Q8WVI7;Q14765;P56645;Q9UN36;Q86WH2;Q15173;P52630;O96011;P40763;O14974;P35398;Q9Y297;Q9NR46;Q9UMX1;Q9UKN5;Q9H160;Q8TDZ2;O60711;Q9NS23;O43823;Q99743;P78318;Q02833;P31949;O14786;Q13352;Q13136;P27986;Q9Y263;Q92844;Q00653;Q8IUM7;P63151;Q99732;P10589}
- 4034 Pathogen[ Q85601] interacts with 175 human partners: {P30281;O00213;O75161;Q92734;P61978;P63104;Q96CV9;P53675;O60239;Q9ULZ2;P11473;Q9UHY8;P62879;Q9UKL3;P16157;Q08AM6;P31749;Q9UD71;Q14765;Q07666;Q92636;P31150;O15534;P46060;Q96RT1;Q04724;Q9UN36;P63151;Q9Y5K6;Q9Y2N7;P23508;P56645;O00463;Q13158;O75312;Q8WWW0;P81274;Q15797;Q00005;Q15036;Q8NEU8;P43487;Q99962;Q86UL8;Q9UKN5;P40763;P61201;P7815;P41970;Q9H0E9;Q9Y2Y0;P62826;O15516;Q92844;Q8WYA1;Q14738;O00327;Q15172;Q9UIV1;Q5TB30;Q15173;O96019;Q99814;P27540;Q02833;Q9NS23;Q66LE6;Q15653;Q9NZQ3;P50749;Q8WUH2;O43639;Q13114;Q99743;Q15596;O14786;Q9UQF2;Q9UBG7;P11802;P27986;P52630;Q5VSY0;Q96L92;O00170;Q9UQB3;Q96FV9;Q96B67;P10599;Q04725;O60711;Q13352;Q04726;O15117;Q04695;Q15555;Q16537;Q8IXF0;Q8NHQ8;Q9H2L5;O95373;Q12933;P16220;Q99717;P42226;P50570;Q9HB58;Q13330;Q15942;P22736;P78352;A6NK89;P18850;Q13625;P53041;P42224;Q9NXG0;P06748;Q8N108;P08235;Q92783;A9YTQ3;Q9HB75;Q9HBZ2;O14964;P07900;P53805;Q15185;P29474;Q15628;O75901;Q9BWF2;O15055;Q9UGP4;Q15759;Q9UNS2;Q99996;P31949;Q96C74;Q9UKG1;Q92845;Q9UGK8;Q9UBS8;O14974;Q13077;P35232;P35869;O15397;O43823;O94916;O43660;P67870;Q00653;O43318;Q92793;Q9P1Z2;P29692;Q99732;Q86WH2;Q9H160;P19838;Q14511;Q6P1N0;Q9NR46;Q9UMX1;P78347;Q03060;Q9NXR7;P78318;Q9H4B6;Q13136;P78560;P11308;P45877;P55345;P10589}
- 4035 Pathogen[ P14079] interacts with 245 human

partners: {P31751;P04083;P01215;Q02952;O95373;Q9UHY8;O75192;Q92844;Q04725;Q9BXL7;O00463;Q12929;Q9NR46;O75161;Q13362;Q99743;Q13442;Q9UD71;Q15036;Q96B67;P55039;Q9UKG1;Q92686;Q5JQC9;P35869;Q99814;P49069;Q14738;Q15596;P52630;Q6ZTQ3;Q99996;Q9NVV7;Q9NS23;P53041;O43187;P31150;Q14236;Q01518;P53779;P61201;O43422;Q8NEU8;Q5VSY0;Q9UGK8;Q99704;Q8TF05;Q9UKF7;Q8TDZ2;Q92734;Q15173;O75312;P52564;Q9Y2N7;P35398;Q16537;Q7LFL8;Q8N108;P11473;P20396;A6NK89;P08235;P98171;Q9NRR8;Q9UQF2;Q92793;O00170;Q15172;Q9UNS2;Q9BWF2;O43823;P01225;Q13522;P24588;Q13835;P16298;O14974;Q9NXG0;Q8WVI7;P31949;Q13330;Q03060;Q9Y2Y0;P43490;P40123;Q9UQB3;Q92783;Q8IXF0;Q9UMX1;P46060;P22736;O00213;P35232;Q6P1N0;Q92636;P53805;P16157;Q9Y6J3;Q8TCD1;Q13625;Q96L92;Q9Y371;O60711;Q9Y4H4;Q15797;Q14765;Q04695;P63151;Q49A92;P29692;Q9BUZ4;Q13136;Q13077;O00178;Q7Z434;P11308;P50570;Q86WH2;Q96FV9;Q9UKI2;P63104;Q96RT1;Q9H0E9;P42226;Q9UKL3;O75952;Q9ULZ2;P08758;P55345;O15117;O60239;Q9NXR7;O96011;P45877;Q8N114;Q02040;Q00005;Q99732;Q16644;Q9NZQ3;P23508;Q07666;Q9BYI3;Q15759;P09525;O75469;P45985;Q15555;P27540;Q9Y263;Q9Y478;Q9H4B6;Q66LE6;Q96T49;A6NNX1;Q02833;Q9HB58;P07900;Q15788;Q15185;A9YTD3;P50749;Q5TB30;Q8NHQ8;Q15397;P06748;B7ZAQ6;P56645;Q04726;P42224;P10588;P18850;Q86UL8;Q9UIV1;Q8WWZ3;Q7Z3T8;Q9Y5K6;Q8N9M5;Q12933;Q04724;Q96PE3;P61978;P27815;P35659;Q13158;P47874;O43639;P10599;Q9UBS8;P67870;O43561;Q9UQE7;Q96AW1;Q13164;P53675;Q9HBZ2;Q9Y3E0;Q9H2L5;P81274;P49023;P49773;Q9NV92;P10589;Q12904;P06703;P62826;Q9UKN5;O15055;Q13371;Q9BZX4;Q92845;Q9H0E2;Q8WUH2;P78347;Q8WYA1;Q9UN36;Q6PIZ9;Q9P1Z2;Q9Y239;Q13352;Q15628;O15259;Q9Y4J8;Q8IUM7;Q9HB75;Q8WWW0;Q96CV9;P17405;P41970;P78318;O15327;O75901;Q99836;Q9UGP4;Q96C74;Q9H160;Q9Y3P8;O15534;Q13114;Q9UBG7;Q99962;O96001;Q15942;O94916;Q15653}

4036 Pathogen[ P03383] interacts with 124 human  
partners: {Q9UD71;Q9Y2Y0;P27986;O00213;P62879;Q12904;Q9UKL3;O96019;P06748;P29474;Q15397;P16220;P27540;Q92844;Q96B67;Q02040;Q00653;Q15596;Q15173;P78347;P31749;Q00005;Q8NEU8;Q96FV9;Q9UBS8;P61201;Q86WH2;P52630;P53805;Q14738;O00170;Q15797;P42226;P10599;P61978;Q9UN36;Q9UQF2;P53675;P07900;Q13352;Q13330;Q15653;Q04724;Q13158;Q13625;O15117;Q9H2L5;P11802;O43318;Q13522;P62826;Q9H0E9;O75901;Q6P1N0;Q96L92;Q9UQB3;P78560;P11473;Q9H160;Q04726;P11308;P81274;Q04695;P63104;P43487;Q9NZQ3;Q12933;Q9ULZ2;Q16537;Q99717;Q9UGP4;Q14511;Q04725;O60711;Q9Y2N7;Q99732;Q9UKN5;Q9UIV1;Q15759;Q15185;P53041;Q07666;P50749;Q02833;P35232;Q9Y4H4;Q92783;Q15628;P67870;Q8N108;Q9UHY8;P41970;P23508;O75161;Q9UGK8;P78318;Q99996;O95373;Q92845;Q9NR46;Q96CV9;P01215;P18850;Q9UNS2;P29692;P30281;P19838;P35869;O14964;Q02952;Q9UMX1;P78352;Q13114;Q96C74;Q03060;A6NK89;Q9NXR7;O75312;Q9H4B6;Q9P1Z2;Q92793;Q9HB75;Q8WUH2;Q9Y3P8}

4037 Pathogen[ P03410] interacts with 243 human  
partners: {O60711;O75192;O14786;Q99743;Q5TB30;P49069;P19838;Q8WVI7;P27986;Q96PE3;P10599;Q8IXF0;Q9NXR7;Q5VSY0;Q02833;Q9HB75;Q96RT1;Q9Y239;Q96L92;P61978;P78560;O15327;Q9NR46;Q6PIZ9;Q04726;Q99996;O94916;Q99814;P98171;Q13445;O15259;B7ZAQ6;P78318;Q13077;O96019;Q8TDZ2;Q15172;A9YTD3;P16157;Q9UQE7;Q9ULZ2;Q15173;Q9Y2N7;Q9UGP4;O43639;O43561;Q99717;Q96AW1;A6NNX1;O43187;Q5JQC9;O96011;Q92845;Q9BYI3;Q99732;Q14765;Q9NS23;Q04724;Q9BZX4;Q92783;P31749;Q8N114;Q9NZQ3;Q9UKI2;O75161;O00213;Q96B67;Q03060;Q15653;P50570;P071900;Q92844;O60239;P63151;P50749;Q9Y6J3;P31949;Q13835;Q8WUH2;P06748;P01215;Q9Y3E0;Q9UIV1;Q9UKF7;Q9NV92;P33241;O15055;Q96T49;Q07666;Q7Z434;Q96FV9;Q12904;P06703;P23508;Q13158;P35659;Q9BWF2;Q9Y5K6;P11473;Q8NHQ8;Q9HBZ2;P43490;O75952;Q9P1Z2;P40123;P27540;Q15628;O43318;Q9Y4H4;Q13136;Q9Y3P8;Q92793;Q16537;P29474;Q08AM6;Q9HAT0;P49773;Q15555;Q14511;Q9UN36;P45985;Q13522;P62826;Q9UGK8;Q9UKN5;Q15942;P53805;Q9BXL7;Q9UBS8;O00170;Q13330;O00463;O43660;Q13371;P11802;P56645;Q9NRR1;Q99704;Q96CV9;Q9UNS2;P43487;Q15797;P45877;Q9H160;A6NK89;O15534;Q15036;Q15185;P22736;Q9Y371;O14974;Q12933;Q9H0E2;P16220;P53041;Q92734;P81274;Q8WWW0;Q86WH2;Q04695;Q9Y263;P30281;Q9UKL3;O43422;P42226;P63104;Q15596;O15117;P61201;Q8N108;Q92636;Q14738;Q00005;P52630;P53779;Q6ZTQ3;P10589;O75901;Q92686;P41970;Q99962;Q8NEU8;Q9UQB3;Q13362;Q00653;Q86UL8;Q8TF05;Q02952;P78347;O96001;Q9H4B6;Q66LE6;Q9UQF2;Q01518;Q15283;Q9NXG0;O00178;Q8TCD1;P53675;P67870;P11308;Q9UHY8;P35232;P29692;Q49A92;P31150;Q9Y2Y0;P78352;Q9H2L5;Q13625;O43823;Q9H0E9;Q9UD71;P08235;P40763;Q9UMX1;P18850;P62879;P27815;P47874;Q9NRR8;Q12929;O15397;Q9UKG1;Q14236;O75312;Q13442;Q6P1N0;Q7Z3T8;P24588;Q13352;P17405;Q9HB58;P46060;Q13114;Q9Y4J8;O95373;P55345;Q8WYA1;Q04725;Q9UBG7;P20396;Q02040}

4038 Pathogen[ P14075] interacts with 132 human  
partners: {P52630;P78560;P29474;O00213;Q14511;P35869;Q9NZQ3;O60239;Q00005;P35659;P81274;Q92844;Q9NR46;Q04725;P11802;P42226;Q9HB75;Q92734;Q15759;Q13522;Q92845;A6NK89;Q07666;P62879;Q9H2L5;Q9UKN5;P30281;P43487;P53675;P61201;Q9UGP4;Q9Y2Y0;Q92783;Q13442;O75312;Q9Y6J3;Q9Y2N7;Q16537;O15117;P29692;P78347;O15397;Q02040;Q99717;Q15653;Q8NEU8;Q9NXR7;Q9UD71;O75901;Q9BYI3;Q15185;P53805;P27540;Q9UQB3;P35232;P07900;Q9UKL3;O96019;Q04726;P31749;Q9H4B6;Q04695;Q02952;Q8N108;Q99996;O14964;O00170;O75161;Q12933;O95373;Q12904;Q86WH2;Q99732;P67870;O43318;Q14738;Q13158;P27986;P11473;Q9UN36;Q15173;P62826;P11308;P78318;P63104;Q9P1Z2;Q9Y3P8;Q13114;P53041;P06748;P61978;Q13625;Q15628;P23508;Q9UHY8;Q9ULZ2;Q9NV92;Q9UNS2;Q13330;Q92793;P78352;Q9UGK8;Q9UBS8;O75192;Q96B67;Q96CV9;O60711;Q8WUH2;P19838;Q03060;Q04724;Q00653;P16220;P41970;Q13352;Q02833;P01215;O43823;Q96FV9;Q9UIV1;Q9H160;Q9NRR8;Q6P1N0;Q9UMX1;Q9UQF2;Q9Y4H4;Q96C74;P50749;Q15596;Q96L92;P18850;P10599}

4039 Pathogen[ P0C206] interacts with 221 human  
partners: {O14964;Q02833;P10588;P31949;Q96L92;Q86WH2;Q03060;Q9NR46;Q9UKG1;P53805;P53675;O75952;Q9Y4H4;P78352;Q96RT1;P35398;O75192;Q13077;P06401;Q92844;P31749;Q9Y6J3;P78318;Q92845;P81274;Q13114;Q16537;P62879;Q8WVI7;Q9Y2N7;Q5JQC9;P16220;Q8NEU8;O43422;P35869;Q9UMX1;O75161;P18850;Q9UD71;Q9NRR8;Q9NV92;Q9UIV1;Q96CV9;Q13625;Q15172;Q9UKL3;P78560;O75469;Q66LE6;Q04726;P61978;Q99717;O15534;Q15185;Q15173;Q9H2L5;P50749;P53041;O43318;P63151;Q15653;P61201;O15397;Q9UHY8;Q99962;Q9UGK8;P29373;P62826;P41970;Q04725;Q9P1Z2;P43490;Q13158;Q99996;Q07666;Q13330;Q12933;Q02040;Q92783;Q9UQF2;Q9HB58;P227

36;Q9H160;Q15036;P27986;Q14738;P11308;Q15269;O14786;Q92793;P10589;O14974;O00213;O00327;P46060;P63104;Q9Y4J8;O96019;Q13522;Q9BUZ4;P16157;Q7Z3T8;P27815;P78347;Q9H0E2;P19838;Q96T49;Q99743;O15516;Q9Y3P8;Q92686;Q6ZTQ3;Q96FV9;Q6P1N0;P56645;Q96C74;Q9UQE7;Q13835;Q9UKN5;P43487;P35232;O95373;P07900;P55196;Q9UBS8;O60239;P01215;Q9H4B6;Q15942;Q8WW70;O94916;P67870;Q13352;A6NK89;Q8TF05;Q15628;Q8WUH2;P40763;O00463;P31150;Q8WYA1;Q9HB75;P98171;P45985;Q99704;Q04724;P29474;O96011;P06703;Q15797;Q5TB30;O43823;Q9Y5K6;Q02952;Q5VSY0;P42226;Q9NXG0;P35659;Q00653;Q13362;Q15596;O15055;Q92636;P27540;Q9ULZ2;Q9BWF2;P45877;Q92734;Q14765;Q15555;Q9UN36;P06748;O00170;Q99814;Q8IUM7;Q96B67;P55345;O43660;Q86UL8;Q9Y2Y0;A9YTQ3;P10599;P29692;Q9NS23;P20396;O15117;O60711;P42224;Q8NHQ8;Q8TDZ2;Q00005;Q9UQB3;Q15788;Q15759;O43639;O75312;Q99732;Q9UBG7;Q13136;P11802;Q9BYI3;O75901;P11473;Q14511;P52630;P08235;Q9H0E9;P50570;Q8N108;Q12904;Q9NZQ3;Q9HBZ2;Q9UNS2;Q04695;Q9NXR7;P23508;B7ZAQ6;Q08AM6;P30281;Q8IXF0}

4040 Pathogen[ P03363] interacts with 195 human partners: {Q9H160;P62879;Q9Y3P8;P51858;P52630;Q92845;Q8IUM7;P29474;P46060;Q14765;Q9Y263;Q96RT1;Q07666;O75161;Q9BWF2;Q9UGK8;Q13835;P36575;Q99962;P07900;Q96CV9;P27540;Q16537;Q9NXG0;Q9Y4H4;P16157;Q99996;Q9UMX1;P31150;O14786;Q96T49;Q99704;Q96L92;Q99742;Q02952;Q9UKN5;P61201;Q13362;Q9UD71;O00213;Q92734;Q9UQF2;Q92783;Q00005;Q9NR46;Q14738;P78352;Q12933;P18850;P53805;O00463;Q13625;P53041;P50570;Q9UN36;P35659;P31949;P16220;P98171;Q04726;Q9HBZ2;O43422;O43318;Q13522;Q15797;Q04724;Q15596;O75312;O43639;Q13158;P23508;Q96FV9;Q99743;P06748;P27815;P35869;P42226;P56645;P81274;Q66LE6;P78314;P10588;P11473;Q8NEU8;P63151;Q9UGP4;P63104;Q92636;Q15117;Q15653;Q9HB75;P29373;Q96019;Q9ULZ2;Q00653;P11308;P08235;Q9UHY8;P29692;Q13480;P31749;Q14511;Q13077;Q9P1Z2;Q8WYA1;O75901;P43487;O00327;Q99732;P78318;Q9Y2N7;Q9UKL3;Q8N108;O94916;Q8IXF0;Q12929;Q9H0E2;Q02040;Q9UNS2;P35398;Q15173;Q96C74;A9YTQ3;P78560;P19838;Q99814;O14964;Q9UBS8;Q02833;Q92793;Q9NS23;Q15185;O14974;Q9H4B6;Q15628;Q92844;O60239;Q5TB30;Q04725;Q15172;Q9NXR7;Q9NZQ3;Q9UV1;P50749;Q8WUH2;Q15269;Q86WH2;A6NK89;Q13114;Q13136;O43660;Q8WWW0;Q7Z5H3;Q9H2L5;Q86UL8;P35232;P61978;O15055;Q9UKF7;P67870;O95373;Q6P1N0;O15259;Q13330;P41970;Q9Y2Y0;Q9UBG7;P11802;Q9H0M0;Q9BUZ4;P30281;P62826;Q8TF05;Q9UQB3;Q13352;O15534;Q99717;P53675;O00170;Q96B67;Q6ZTQ3;P27986;P10589;Q9H0E9;P78347;Q9Y5K6;O95833;Q9UKG1;Q03060;Q96FS4;Q15942;O60711;Q15555;Q04695;O15397}

4041 [Cluster 368]GO:0032463+P biological\_process [name] negative regulation of protein homooligomerization [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of protein homooligomerization." [GOC

4042 Pathogen[ Q2Q067] interacts with 1 human partners: {Q96SW2}

4043 Pathogen[ P0C214] interacts with 2 human partners: {Q96SW2;P10909}

4044 Pathogen[ P03346] interacts with 2 human partners: {Q9H165;Q96SW2}

4045 Pathogen[ Q85601] interacts with 1 human partners: {Q96SW2}

4046 Pathogen[ P14079] interacts with 2 human partners: {P10909;Q96SW2}

4047 Pathogen[ P03383] interacts with 1 human partners: {Q96SW2}

4048 Pathogen[ P03410] interacts with 2 human partners: {Q96SW2;P10909}

4049 Pathogen[ P14075] interacts with 1 human partners: {Q96SW2}

4050 Pathogen[ P0C206] interacts with 3 human partners: {Q96SW2;P10909;Q9H165}

4051 Pathogen[ P03363] interacts with 1 human partners: {Q96SW2}

4052 [Cluster 369]GO:0043666+P biological\_process [name] regulation of phosphoprotein phosphatase activity [def] "Any process that modulates the frequency, rate or extent of phosphoprotein phosphatase activity, the catalysis of the hydrolysis of phosphate from a phosphoprotein." [GOC

4053 Pathogen[ Q2Q067] interacts with 7 human partners: {P41236;Q6NXS1;Q5H9R7;Q9UPN7;P53805;Q15257;P14625}

4054 Pathogen[ P0C214] interacts with 8 human partners: {Q5H9R7;Q96PQ5;P14625;Q6NXS1;P41236;Q15257;P53805;Q9UPN7}

4055 Pathogen[ P03346] interacts with 7 human partners: {P53805;P14625;Q15257;Q5H9R7;Q6NXS1;P41236;Q9UPN7}

4056 Pathogen[ Q85601] interacts with 8 human partners: {P41236;P53805;Q9UPN7;P14625;Q6NXS1;Q96PQ5;Q15257;Q5H9R7}

4057 Pathogen[ P14079] interacts with 8 human partners: {O14990;Q9UPN7;P53805;P41236;Q6NXS1;P14625;Q5H9R7;Q96PQ5}

4058 Pathogen[ P03383] interacts with 8 human partners: {Q15257;P53805;O14990;Q6NXS1;P14625;Q5H9R7;Q9UPN7;P41236}

4059 Pathogen[ P03410] interacts with 9 human partners: {Q15257;P14625;Q5H9R7;P41236;P53805;O14990;Q96PQ5;Q6NXS1;Q9UPN7}

4060 Pathogen[ P14075] interacts with 8 human partners: {Q15257;P41236;Q5H9R7;Q6NXS1;P53805;Q9UPN7;P14625;O14990}

4061 Pathogen[ P0C206] interacts with 9 human partners: {Q6NXS1;P53805;Q5H9R7;P41236;Q96PQ5;Q9UPN7;Q15257;O14990;P14625}

4062 Pathogen[ P03363] interacts with 6 human partners: {P41236;P53805;Q6NXS1;Q9UPN7;Q15257;Q5H9R7}

4063 [Cluster 370]GO:0006309+P biological\_process [name] DNA fragmentation involved in apoptotic nuclear change [def] "The cleavage of DNA during apoptosis, which usually occurs in two stages

4064 Pathogen[ Q2Q067] interacts with 11 human partners: {Q14974;O00273;O60543;Q8N726;P99999;Q16890;Q12983;O95831;P52294;O76075;Q9BXF3}

4065 Pathogen[ P0C214] interacts with 13 human partners: {O60543;Q8N726;Q16890;O00273;P52294;P99999;P42574;Q9BXF3;Q12983;O14727;Q14974;Q96CA5;O76075}

4066 Pathogen[ P03346] interacts with 16 human partners: {P58012;Q9BXF3;P42574;Q12983;P99999;Q16890;Q13609;O95831;O76075;Q8N726;Q96CA5;O60543;O14727;P52294;O00273;Q14974}

4067 Pathogen[ Q85601] interacts with 12 human partners: {Q16890;P99999;O95831;Q9BXF3;O76075;Q14974;Q8N726;O60543;O00273;Q12983;Q96CA5;P52294}

4068 Pathogen[ P14079] interacts with 14 human partners: {Q16890;O76075;Q13609;O60543;P52294;Q8N726;Q14249;O95831;Q9BXF3;Q14974;Q12983;P99999;P07305;O00273}

4069 Pathogen[ P03383] interacts with 10 human partners: {O60543;O95831;Q12983;O00273;P99999;Q14974;Q9BXF3;P52294;Q16890;Q8N726}

4070 Pathogen[ P03410] interacts with 13 human partners: {Q14974;Q12983;Q8N726;P52294;Q9BXF3;Q13609;O76075;O00273;O95831;P99999;Q16890;O60543;Q14249}

4071 Pathogen[ P14075] interacts with 10 human partners: {Q12983;O00273;P52294;P99999;O95831;O60543;Q16890;Q14974;Q9BXF3;Q8N726}

4072 Pathogen[ P0C206] interacts with 15 human partners: {P99999;Q8N726;O76075;Q14974;Q16890;Q12983;Q9BXF3;O95831;Q13609;P42574;Q96CA5;O60543;P52294;Q14249;O00273}

4073 Pathogen[ P03363] interacts with 12 human partners: {O00273;O60543;P99999;Q9BXF3;Q13609;O76075;Q14974;Q8N726;Q16890;Q96CA5;O95831;P52294}

4074 [Cluster 371]GO:0030641+P biological\_process [name] regulation of cellular pH [def] "Any process involved in the maintenance of an internal equilibrium of hydrogen ions (protons) within a cell or between a cell and its external environment." [GOC]

4075 Pathogen[ Q2Q067] interacts with 1 human partners: {O15525}

4076 Pathogen[ P0C214] interacts with 1 human partners: {O15525}

4077 Pathogen[ P03346] interacts with 1 human partners: {O15525}

4078 Pathogen[ Q85601] interacts with 1 human partners: {O15525}

4079 Pathogen[ P14079] interacts with 1 human partners: {O15525}

4080 Pathogen[ P03383] interacts with 1 human partners: {O15525}

4081 Pathogen[ P03410] interacts with 1 human partners: {O15525}

4082 Pathogen[ P14075] interacts with 1 human partners: {O15525}

4083 Pathogen[ P0C206] interacts with 1 human partners: {O15525}

4084 Pathogen[ P03363] interacts with 1 human partners: {O15525}

4085 [Cluster 372]GO:0021879+P biological\_process [name] forebrain neuron differentiation [def] "The process in which a relatively unspecialized cell acquires specialized features of a neuron that will reside in the forebrain." [GO\_REF]

4086 Pathogen[ Q2Q067] interacts with 1 human partners: {Q07687}

4087 Pathogen[ P0C214] interacts with 1 human partners: {Q07687}

4088 Pathogen[ P03346] interacts with 5 human partners: {P56177;Q9H2C1;Q5XKR4;Q68G74;P49335}

4089 Pathogen[ Q85601] interacts with 1 human partners: {Q07687}

4090 Pathogen[ P14079] interacts with 1 human partners: {Q07687}

4091 Pathogen[ P03383] interacts with 1 human partners: {Q07687}

4092 Pathogen[ P03410] interacts with 1 human partners: {Q07687}

4093 Pathogen[ P14075] interacts with 1 human partners: {Q07687}

4094 Pathogen[ P0C206] interacts with 4 human partners: {Q07687;Q68G74;Q9H2C1;P56177}

4095 Pathogen[ P03363] interacts with 4 human partners: {P56177;Q5XKR4;P49335;Q07687}

4096 [Cluster 373]GO:0006796+P biological\_process [name] phosphate-containing compound metabolic process [def] "The chemical reactions and pathways involving the phosphate group, the anion or salt of any phosphoric acid." [GOC]

4097 Pathogen[ Q2Q067] interacts with 4 human partners: {Q9BU02;Q9H2U2;Q9H008;Q15181}

4098 Pathogen[ P0C214] interacts with 4 human partners: {Q9BU02;P07311;Q9H008;Q15181}

4099 Pathogen[ P03346] interacts with 4 human partners: {Q9H2U2;Q9BU02;Q15181;Q9H008}

4100 Pathogen[ Q85601] interacts with 4 human partners: {Q9BU02;Q9H008;Q9H2U2;Q15181}

4101 Pathogen[ P14079] interacts with 6 human partners: {P14621;P07311;Q9H008;Q9H2U2;Q9BU02;Q15181}

4102 Pathogen[ P03383] interacts with 5 human partners: {Q9H2U2;P07311;Q9BU02;Q15181;Q9H008}

4103 Pathogen[ P03410] interacts with 6 human partners: {Q9BU02;Q9H2U2;P07311;Q9H008;Q15181;P14621}

4104 Pathogen[ P14075] interacts with 5 human partners: {Q9H008;Q9H2U2;Q9BU02;P07311;Q15181}

4105 Pathogen[ P0C206] interacts with 6 human partners: {P07311;P14621;Q9H2U2;Q9H008;Q9BU02;Q15181}

4106 Pathogen[ P03363] interacts with 4 human partners: {Q9H2U2;Q9H008;Q9BU02;Q15181}

4107 [Cluster 374]GO:0021542+P biological\_process [name] dentate gyrus development [def] "The process whose specific outcome is the progression of the dentate gyrus over time, from its formation to the mature structure. The dentate gyrus is one of two interlocking gyri of the hippocampus. It contains granule cells, which project to the pyramidal cells and interneurons of the CA3 region of the ammon gyrus." [GO\_REF]

4108 Pathogen[ Q2Q067] interacts with 4 human partners: {Q13562;Q04743;P78543;Q00534}

4109 Pathogen[ P0C214] interacts with 2 human partners: {P78543;Q00534}

4110 Pathogen[ P03346] interacts with 5 human partners: {Q04743;Q00534;Q13562;P78543;Q96NK8}

4111 Pathogen[ Q85601] interacts with 3 human partners:{Q13562;P78543;Q00534}  
4112 Pathogen[ P14079] interacts with 2 human partners:{P78543;Q04743}  
4113 Pathogen[ P03383] interacts with 2 human partners:{Q00534;P78543}  
4114 Pathogen[ P03410] interacts with 3 human partners:{Q00534;P78543;Q04743}  
4115 Pathogen[ P14075] interacts with 2 human partners:{Q00534;P78543}  
4116 Pathogen[ P0C206] interacts with 4 human partners:{Q04743;Q13562;P78543;Q00534}  
4117 Pathogen[ P03363] interacts with 4 human partners:{P78543;Q00534;Q96NK8;Q04743}  
4118 [Cluster 375]GO:0090169+P biological\_process [name] regulation of spindle assembly  
[def] "Any process that modulates the rate, frequency or extent of spindle assembly.  
Spindle assembly is the aggregation, arrangement and bonding together of a set of  
components to form the spindle, the array of microtubules and associated molecules that  
serves to move duplicated chromosomes apart." [GOC  
4119 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9GZR1;P78317}  
4120 Pathogen[ P0C214] interacts with 2 human partners:{P78317;Q9GZR1}  
4121 Pathogen[ P03346] interacts with 2 human partners:{Q9GZR1;P78317}  
4122 Pathogen[ Q85601] interacts with 2 human partners:{P78317;Q9GZR1}  
4123 Pathogen[ P14079] interacts with 2 human partners:{P78317;Q9GZR1}  
4124 Pathogen[ P03383] interacts with 2 human partners:{P78317;Q9GZR1}  
4125 Pathogen[ P03410] interacts with 2 human partners:{Q9GZR1;P78317}  
4126 Pathogen[ P14075] interacts with 2 human partners:{P78317;Q9GZR1}  
4127 Pathogen[ P0C206] interacts with 2 human partners:{P78317;Q9GZR1}  
4128 Pathogen[ P03363] interacts with 2 human partners:{P78317;Q9GZR1}  
4129 [Cluster 376]GO:0015074+P biological\_process [name] DNA integration [def] "The  
process in which a segment of DNA is incorporated into another, usually larger, DNA  
molecule such as a chromosome." [GOC  
4130 Pathogen[ Q2Q067] interacts with 4 human partners:{Q6R2W3;Q13129;O75531;Q12824}  
4131 Pathogen[ P0C214] interacts with 4 human partners:{Q12824;Q6R2W3;Q13129;O75531}  
4132 Pathogen[ P03346] interacts with 4 human partners:{Q6R2W3;O75531;Q13129;Q12824}  
4133 Pathogen[ Q85601] interacts with 4 human partners:{Q6R2W3;Q13129;O75531;Q12824}  
4134 Pathogen[ P14079] interacts with 6 human  
partners:{Q9NXP7;Q6ZNG9;Q13129;Q6R2W3;O75531;Q12824}  
4135 Pathogen[ P03383] interacts with 4 human partners:{Q12824;Q6R2W3;O75531;Q13129}  
4136 Pathogen[ P03410] interacts with 7 human  
partners:{Q9NXP7;Q6R2W3;Q13129;O75531;P63135;Q12824;Q6ZNG9}  
4137 Pathogen[ P14075] interacts with 4 human partners:{Q6R2W3;Q12824;Q13129;O75531}  
4138 Pathogen[ P0C206] interacts with 5 human  
partners:{Q6R2W3;Q12824;O75531;Q9NXP7;Q13129}  
4139 Pathogen[ P03363] interacts with 5 human  
partners:{Q6ZNG9;Q13129;O75531;Q6R2W3;Q12824}  
4140 [Cluster 377]GO:2000678+P biological\_process [name] negative regulation of  
transcription regulatory region DNA binding [def] "Any process that stops, prevents or  
reduces the frequency, rate or extent of transcription regulatory region DNA binding."  
[GOC  
4141 Pathogen[ Q2Q067] interacts with 4 human partners:{Q8TD23;P15976;P35548;Q9Y5J3}  
4142 Pathogen[ P0C214] interacts with 3 human partners:{Q8TD23;Q9Y5J3;P35548}  
4143 Pathogen[ P03346] interacts with 4 human partners:{P35548;Q8TD23;Q9Y5J3;P15976}  
4144 Pathogen[ Q85601] interacts with 4 human partners:{P15976;Q8TD23;P35548;Q9Y5J3}  
4145 Pathogen[ P14079] interacts with 4 human partners:{Q8TD23;P15976;Q9Y5J3;P28360}  
4146 Pathogen[ P03383] interacts with 2 human partners:{Q8TD23;P35548}  
4147 Pathogen[ P03410] interacts with 4 human partners:{Q9Y5J3;P35548;Q8TD23;P15976}  
4148 Pathogen[ P14075] interacts with 2 human partners:{Q8TD23;P35548}  
4149 Pathogen[ P0C206] interacts with 4 human partners:{P15976;Q9Y5J3;P35548;Q8TD23}  
4150 Pathogen[ P03363] interacts with 3 human partners:{Q9Y5J3;P35548;Q8TD23}  
4151 [Cluster 378]GO:0034145+P biological\_process [name] positive regulation of toll-like  
receptor 4 signaling pathway [def] "Any process that activates or increases the  
frequency, rate, or extent of toll-like receptor 4 signaling pathway." [GOC  
4152 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96FA3}  
4153 Pathogen[ P0C214] interacts with 1 human partners:{Q96FA3}  
4154 Pathogen[ P03346] interacts with 1 human partners:{Q96FA3}  
4155 Pathogen[ Q85601] interacts with 1 human partners:{Q96FA3}  
4156 Pathogen[ P14079] interacts with 1 human partners:{Q96FA3}  
4157 Pathogen[ P03383] interacts with 1 human partners:{Q96FA3}  
4158 Pathogen[ P03410] interacts with 1 human partners:{Q96FA3}  
4159 Pathogen[ P14075] interacts with 1 human partners:{Q96FA3}  
4160 Pathogen[ P0C206] interacts with 1 human partners:{Q96FA3}  
4161 Pathogen[ P03363] interacts with 1 human partners:{Q96FA3}  
4162 [Cluster 379]GO:0031060+P biological\_process [name] regulation of histone methylation  
[def] "Any process that modulates the frequency, rate or extent of the covalent addition  
of methyl groups to histones." [GOC  
4163 Pathogen[ Q2Q067] interacts with 2 human partners:{Q7Z7J5;P49711}  
4164 Pathogen[ P0C214] interacts with 2 human partners:{Q7Z7J5;P49711}  
4165 Pathogen[ P03346] interacts with 2 human partners:{Q7Z7J5;P49711}  
4166 Pathogen[ Q85601] interacts with 2 human partners:{P49711;Q7Z7J5}  
4167 Pathogen[ P14079] interacts with 2 human partners:{Q7Z7J5;P49711}  
4168 Pathogen[ P03383] interacts with 2 human partners:{Q7Z7J5;P49711}  
4169 Pathogen[ P03410] interacts with 2 human partners:{Q7Z7J5;P49711}

4170 Pathogen[ P14075] interacts with 2 human partners:{P49711;Q7Z7J5}  
4171 Pathogen[ POC206] interacts with 2 human partners:{Q7Z7J5;P49711}  
4172 Pathogen[ P03363] interacts with 2 human partners:{P49711;Q7Z7J5}  
4173 [Cluster 380]GO:0031643+P biological\_process [name] positive regulation of myelination [def] "Any process that activates or increases the frequency, rate or extent of the formation of a myelin sheath around nerve axons." [GOC  
4174 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8N5U6}  
4175 Pathogen[ POC214] interacts with 1 human partners:{Q8N5U6}  
4176 Pathogen[ P03346] interacts with 1 human partners:{Q8N5U6}  
4177 Pathogen[ Q85601] interacts with 1 human partners:{Q8N5U6}  
4178 Pathogen[ P14079] interacts with 2 human partners:{Q8N5U6;Q9Y2G1}  
4179 Pathogen[ P03383] interacts with 1 human partners:{Q8N5U6}  
4180 Pathogen[ P03410] interacts with 2 human partners:{Q9Y2G1;Q8N5U6}  
4181 Pathogen[ P14075] interacts with 1 human partners:{Q8N5U6}  
4182 Pathogen[ POC206] interacts with 1 human partners:{Q8N5U6}  
4183 Pathogen[ P03363] interacts with 1 human partners:{Q8N5U6}  
4184 [Cluster 381]GO:0045860+P biological\_process [name] positive regulation of protein kinase activity [def] "Any process that activates or increases the frequency, rate or extent of protein kinase activity." [GOC  
4185 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9NYJ8;O76095;P30305}  
4186 Pathogen[ POC214] interacts with 4 human partners:{Q9Y376;Q86Y37;P30305;Q9NYJ8}  
4187 Pathogen[ P03346] interacts with 6 human partners:{Q9Y376;P30305;Q9NYJ8;Q86Y37;Q9BUZ4;O76095}  
4188 Pathogen[ Q85601] interacts with 5 human partners:{Q9NYJ8;Q9Y376;Q86Y37;P30305;O76095}  
4189 Pathogen[ P14079] interacts with 6 human partners:{O76095;Q9BUZ4;Q15078;P30305;Q86Y37;Q9Y376}  
4190 Pathogen[ P03383] interacts with 2 human partners:{O76095;Q9NYJ8}  
4191 Pathogen[ P03410] interacts with 5 human partners:{Q9Y376;Q9NYJ8;Q86Y37;O76095;P30305}  
4192 Pathogen[ P14075] interacts with 2 human partners:{O76095;Q9NYJ8}  
4193 Pathogen[ POC206] interacts with 6 human partners:{Q86Y37;P30305;Q9Y376;Q9BUZ4;Q9NYJ8;O76095}  
4194 Pathogen[ P03363] interacts with 4 human partners:{Q9NYJ8;Q9Y376;O76095;Q9BUZ4}  
4195 [Cluster 382]GO:0006464+P biological\_process [name] protein modification process [def] "The covalent alteration of one or more amino acids occurring in proteins, peptides and nascent polypeptides (co-translational, post-translational modifications). Includes the modification of charged tRNAs that are destined to occur in a protein (pre-translation modification)." [GOC  
4196 Pathogen[ Q2Q067] interacts with 36 human partners:{Q96J02;Q96HA8;P31749;Q9HAU4;Q9UII4;P62837;Q99816;Q15386;Q9ULC6;P49427;Q9Y2J8;P22061;Q96EZ8;P63279;Q7Z6Z7;Q14749;Q9UIC8;Q14669;P61077;Q9UKC9;O14933;Q96PU5;P61088;Q9ULW8;P11441;Q9UM07;Q05086;Q9NY27;P68036;Q9UKK3;P62987;Q86XK2;Q9NT62;Q8NEZ5;Q1442;Q6TGC4}  
4197 Pathogen[ POC214] interacts with 47 human partners:{Q05086;O14933;Q96J02;Q8IX04;Q16763;Q9HAU4;P54922;P22735;P49427;Q9NY27;Q92560;P63279;O00308;Q5T447;Q9H0M0;P61077;P22061;Q9HCE7;Q9UJ68;P50747;Q9UM07;Q9ULC6;Q6TGC4;Q14749;Q95071;Q15386;Q9UII4;Q9ULW8;P11441;Q9UKC9;P62987;Q99816;Q14669;Q9Y2J8;Q86XK2;Q9UKK3;Q7Z6Z7;A6NK58;Q9UIC8;Q96EZ8;Q9NT62;P61081;P31749;P61088;Q96HA8;Q96PU5;Q9UKT8}  
4198 Pathogen[ P03346] interacts with 52 human partners:{Q96J02;Q9ULC6;P22061;Q92560;Q9HAU4;Q96PU5;Q6TGC4;P68036;P62987;Q95714;P49427;Q8NEZ5;Q96EZ8;Q9Y2J8;Q9NY27;Q9UKK3;Q9UII4;Q9UIC8;Q99816;Q9UKT8;Q9NT62;P63279;Q86XK2;Q15386;Q14749;Q5T447;P61077;P61088;Q96MG8;Q9UHP3;P31749;Q8N841;P11441;Q14669;P62837;P53611;Q9ULW8;Q9UM07;Q96HA8;O14933;Q9ULT8;Q14442;Q05086;Q9H0M0;P22735;Q95071;Q9NV79;Q9UKC9;Q7Z6Z7;A0AVT1;Q6EMB2;O00308}  
4199 Pathogen[ Q85601] interacts with 39 human partners:{Q99816;Q96J02;Q9ULW8;Q9HAU4;Q16763;P31749;O14933;Q95714;P49427;Q9UM07;Q92560;Q9NY27;Q9UKK3;Q6TGC4;Q96PU5;Q14669;Q86XK2;Q15386;P68036;P61077;P63279;Q9UKC9;Q9Y2J8;Q9ULC6;P22061;Q9NT62;P62837;Q7Z6Z7;Q05086;P62987;P11441;Q9UIC8;P61088;Q95071;Q9UKT8;Q96EZ8;Q96HA8;Q14749;Q8NEZ5}  
4200 Pathogen[ P14079] interacts with 45 human partners:{P31751;Q14166;P54922;P63279;Q9NT62;Q14442;Q9ULC6;P68036;P22735;Q95922;Q86XK2;Q9NY27;Q96MG8;P04844;Q9UKC9;Q9HAU4;P61077;Q9UKK3;Q9Y4R7;Q96HA8;P62987;Q9ULW8;Q9Y2J8;Q9UIC8;A6PVC2;Q14749;Q9Y6X1;Q92560;Q8N841;Q96J02;Q9NV79;Q6ZVT0;P49427;Q8NEZ5;Q6EMB2;Q6TGC4;P62837;Q9Y234;Q9UM07;Q99816;A6NK58;O14933;Q9UJ68;Q96EZ8;P11441}  
4201 Pathogen[ P03383] interacts with 28 human partners:{O14933;P62987;P54922;P49427;P31749;Q99816;Q86XK2;Q9NT62;Q9ULW8;P61077;P61088;Q6TGC4;Q9UM07;P62837;Q96HA8;P22061;Q9Y2J8;Q9UIC8;Q9UKC9;Q9UKK3;Q9NY27;P68036;P11441;Q8NEZ5;Q9ULC6;Q96EZ8;Q14749;P63279}  
4202 Pathogen[ P03410] interacts with 44 human partners:{Q9Y4R7;Q14749;Q6ZVT0;P49427;Q9UM07;Q9NV79;P31749;P68036;P61088;Q14442;O14933;A6NK58;Q9ULC6;Q99816;Q9UJ68;Q9Y6X1;Q9Y234;Q96MG8;Q86XK2;Q8NEZ5;Q9UKC9;Q9NT62;P04844;P53611;Q6TGC4;Q9UIC8;Q96EZ8;P62987;Q14166;P54922;P63279;P11441;Q9Y2J8;Q95922;Q9UKK3;Q8N841;A6PVC2;P22061;Q6EMB2;Q9NY27;P61077;P62837;Q9ULW8;P22735}  
4203 Pathogen[ P14075] interacts with 29 human



partners:{Q9ULC6;Q14442;P68036;P54922;Q9UM07;P62837;P49427;Q9NT62;P61088;Q96EZ8;O14933;P63279;Q9Y2J8;P61077;Q96HA8;P31749;Q9NY27;P11441;Q9UKC9;P62987;Q8NEZ5;Q9ULW8;P22061;Q6TGC4;Q86XK2;Q14749;Q99816;Q9UKK3;Q9UIC8}

4204 Pathogen[ POC206] interacts with 53 human partners:{Q9Y234;Q16763;Q9UKC9;Q6ZVT0;Q96PU5;P31749;O00308;Q9HAU4;P68036;O14933;Q9UIC8;P22061;Q86XK2;Q05086;Q96J02;Q14442;Q9Y2J8;P62837;Q9UM07;Q99816;P11441;P49427;Q14669;Q15386;Q96EZ8;P54922;Q6TGC4;P61088;Q9ULC6;Q96HA8;Q9UKK3;O95922;Q9UJ68;Q8N841;Q9NY27;Q9UHP3;Q9UKT8;Q9NV79;Q14749;P61077;Q7Z6Z7;Q9NT62;P62987;Q9ULW8;A6NK58;Q8NEZ5;P53611;Q96MG8;O95071;P22735;Q6EMB2;O95714;Q92560}

4205 Pathogen[ P03363] interacts with 51 human partners:{Q9Y2J8;P11441;Q6EMB2;Q9HAU4;Q8NEZ5;P22314;Q9UHP3;O14933;P61081;Q9ULT8;O95922;Q9ULW8;Q96MG8;Q9NT62;P49427;Q05086;Q7Z6Z7;P61088;Q9UM07;Q92560;Q14669;Q96PU5;P31749;Q9UKK3;Q6TGC4;Q14749;Q9UKT8;Q8N841;P62987;P63279;Q96EZ8;O95071;Q86XK2;Q15386;Q96HA8;Q9UBE0;Q9UIC8;O00308;Q9NV79;Q9NY27;O95714;Q99816;P61077;P62837;Q9H0M0;Q9UKC9;Q9UII4;Q9ULC6;Q5T447;A0AVT1;P68036}

4206 [Cluster 383]GO:0010629+P biological\_process [name] negative regulation of gene expression [def] "Any process that decreases the frequency, rate or extent of gene expression. Gene expression is the process in which a gene's coding sequence is converted into a mature gene product or products (proteins or RNA). This includes the production of an RNA transcript as well as any processing to produce a mature RNA product or an mRNA (for protein-coding genes) and the translation of that mRNA into protein. Some protein processing events may be included when they are required to form an active form of a product from an inactive precursor form." [GOC

4207 Pathogen[ Q2Q067] interacts with 17 human partners:{Q9H2P0;Q9Y2X9;Q01664;P02511;Q9Y3E5;P14635;Q13127;P61244;P55055;P38936;Q14145;Q15583;P60953;Q9BQA5;P02489;P49711;Q9UQR1}

4208 Pathogen[ POC214] interacts with 17 human partners:{P61244;P02489;P02511;Q14145;P60953;P14635;O00308;P38936;Q9Y3E5;Q13127;Q9Y2X9;Q9NV92;P49711;Q9BQA5;Q9UQR1;Q01664;Q9H2P0}

4209 Pathogen[ P03346] interacts with 22 human partners:{Q9Y2B0;Q9UQR1;P06401;Q9H2P0;P02489;Q15583;P60953;Q9H165;Q9NV92;Q9Y3E5;P02511;P14635;P49711;P61244;P38936;Q9Y2X9;Q14145;Q01664;P55055;Q13127;O00308;Q9BQA5}

4210 Pathogen[ Q85601] interacts with 17 human partners:{Q9UQR1;P02489;Q13127;Q9Y2X9;Q15583;Q9Y3E5;P55055;P49711;Q14145;P14635;P02511;Q9H2P0;P61244;Q9BQA5;P60953;P38936;Q01664}

4211 Pathogen[ P14079] interacts with 20 human partners:{Q9UQR1;Q9Y3E5;P55055;Q06413;P02511;Q15583;Q9H2P0;Q9BQA5;P02489;P14635;Q14145;P38936;Q9Y2X9;Q01664;Q9NV92;Q96JY0;Q13127;Q9Y2B0;P61244;P49711}

4212 Pathogen[ P03383] interacts with 12 human partners:{Q9UQR1;P49711;P60953;P02511;P14635;Q9Y3E5;Q01664;Q9BQA5;Q14145;Q9Y2X9;P61244;Q13127}

4213 Pathogen[ P03410] interacts with 17 human partners:{Q9BQA5;Q9NV92;P61244;Q9UQR1;Q13127;Q9Y2X9;Q15583;P14635;P38936;P02489;P02511;P49711;Q9Y3E5;P60953;Q01664;Q9Y2B0;Q14145}

4214 Pathogen[ P14075] interacts with 13 human partners:{P60953;Q9UQR1;Q9BQA5;P14635;P61244;Q9Y3E5;Q01664;P02511;Q9Y2X9;Q9NV92;P49711;Q13127;Q14145}

4215 Pathogen[ POC206] interacts with 21 human partners:{Q9Y2X9;P06401;Q13127;O00308;Q9NV92;P55055;Q9BQA5;Q14145;P49711;Q9UQR1;P38936;Q9H165;P61244;P60953;Q01664;Q9Y3E5;P14635;Q9H2P0;P02511;P02489;Q15583}

4216 Pathogen[ P03363] interacts with 15 human partners:{Q14145;Q9H2P0;Q9Y2X9;P49711;P61244;Q13127;Q96JY0;Q9BQA5;Q15583;O00308;Q9UQR1;Q9Y3E5;P02489;P60953;Q01664}

4217 [Cluster 384]GO:0006268+P biological\_process [name] DNA unwinding involved in replication [def] "The process in which interchain hydrogen bonds between two strands of DNA are broken or 'melted', generating unpaired template strands for DNA replication." [ISBN

4218 Pathogen[ Q2Q067] interacts with 3 human partners:{Q06609;Q00577;P17096}

4219 Pathogen[ POC214] interacts with 4 human partners:{Q06609;P17096;Q14566;Q00577}

4220 Pathogen[ P03346] interacts with 5 human partners:{Q06609;Q00577;P17096;Q14566;P33991}

4221 Pathogen[ Q85601] interacts with 4 human partners:{P17096;Q14566;Q00577;Q06609}

4222 Pathogen[ P14079] interacts with 4 human partners:{Q14566;P17096;Q00577;Q06609}

4223 Pathogen[ P03383] interacts with 3 human partners:{Q06609;P17096;Q00577}

4224 Pathogen[ P03410] interacts with 4 human partners:{P17096;Q00577;Q14566;Q06609}

4225 Pathogen[ P14075] interacts with 3 human partners:{P17096;Q00577;Q06609}

4226 Pathogen[ POC206] interacts with 4 human partners:{P17096;Q06609;Q14566;Q00577}

4227 Pathogen[ P03363] interacts with 3 human partners:{P17096;Q06609;Q00577}

4228 [Cluster 385]GO:0007417+P biological\_process [name] central nervous system development [def] "The process whose specific outcome is the progression of the central nervous system over time, from its formation to the mature structure. The central nervous system is the core nervous system that serves an integrating and coordinating function. In vertebrates it consists of the brain, spinal cord and spinal nerves. In those invertebrates with a central nervous system it typically consists of a brain, cerebral ganglia and a nerve cord." [GOC

4229 Pathogen[ Q2Q067] interacts with 27 human

partners:{Q9HBZ2;P78424;P54259;O60260;Q01196;Q05516;O60315;P49770;Q13625;A6NFD8;Q8ND90;Q9Y4Z2;Q9H9Q4;Q99743;Q99608;O43711;Q06787;Q92529;Q13426;P53805;Q99962;O75360;P31314;Q8TE85;Q03393;Q02577;P48539}

4230 Pathogen[ POC214] interacts with 24 human partners:{Q9H9Q4;P32243;Q06787;P49770;P31314;Q13625;Q99743;Q99608;Q92529;Q99962;Q9H0M0;Q9HBZ2;Q8TE85;Q03393;Q13426;O75360;Q02577;Q99574;O60260;P53805;O60315;Q05516;Q8ND90;P54259}

4231 Pathogen[ P03346] interacts with 42 human partners:{P53805;P78424;Q99742;Q9Y4Z2;Q06787;A6NFD8;Q02535;Q8NFW5;O43711;O60315;Q99962;Q13426;P20264;P41225;Q92858;Q02575;Q8TE85;Q03393;Q06710;Q9UI15;P49770;Q13625;Q9HBZ2;Q8N157;Q05516;Q8ND90;Q99608;O60260;Q9H9Q4;P48539;Q99929;Q01196;Q9P2D1;O75360;P31314;Q9H0M0;Q92529;Q9Y4A0;P32243;Q02577;Q99743;P54259}

4232 Pathogen[ Q85601] interacts with 26 human partners:{P54259;Q8TE85;P78424;Q8ND90;O75360;Q9Y4Z2;Q9P2D1;O60315;Q99962;Q13426;Q06787;Q99743;Q99608;P49770;A6NFD8;Q02577;Q92529;Q13625;O43711;Q9HBZ2;P32243;P53805;Q05516;O60260;P31314;Q9H9Q4}

4233 Pathogen[ P14079] interacts with 32 human partners:{O60260;Q99743;Q9H9Q4;Q8TE85;Q8N157;Q05516;P53805;Q13625;Q99608;O60315;P02686;Q9P2D1;Q8ND90;O43711;P48681;Q9Y4A0;O75360;P78424;P32243;P54259;Q06787;Q02577;Q9HBZ2;Q03393;Q92529;A6NFD8;Q13426;P48539;Q8WZA0;P49917;Q99962;O96001}

4234 Pathogen[ P03383] interacts with 18 human partners:{Q02577;P32243;Q99608;O75360;Q06787;Q9H9Q4;P53805;Q05516;Q8TE85;Q13625;O60260;P48539;Q13426;O43711;P49770;P31314;Q8ND90;P54259}

4235 Pathogen[ P03410] interacts with 30 human partners:{Q99743;Q92529;P48539;P02686;Q99608;Q8WZA0;A6NFD8;O60260;P31314;P49770;Q9HBZ2;Q8TE85;Q9P2D1;P53805;Q8N157;Q13426;P32243;P54259;Q02577;Q99962;Q8ND90;O43711;Q06787;O96001;Q9Y4A0;O75360;Q13625;P78424;Q03393;Q9H9Q4}

4236 Pathogen[ P14075] interacts with 18 human partners:{Q02577;Q99608;Q8TE85;Q8ND90;P53805;Q9H9Q4;P49770;Q06787;O75360;O43711;Q13625;Q13426;P31314;Q05516;P54259;O60260;P32243;P48539}

4237 Pathogen[ POC206] interacts with 30 human partners:{Q8TE85;P78424;P53805;O43711;P31314;Q06787;Q9Y4Z2;Q05516;Q13625;Q9P2D1;A6NFD8;Q99962;O75360;P54259;P49770;Q99743;P49917;Q9H9Q4;P32243;Q13426;O60260;Q8ND90;Q8N157;Q99608;O60315;Q03393;Q92529;Q02577;P48539;Q9HBZ2}

4238 Pathogen[ P03363] interacts with 32 human partners:{Q06787;Q8NFW5;Q9Y4Z2;Q99962;O75360;O60315;P48539;P78424;P54259;Q99742;Q99929;P53805;Q13625;Q9HBZ2;P32243;Q99743;Q99608;Q92529;Q8TE85;Q13426;P20264;Q8N157;P31314;Q9H9Q4;Q8ND90;P49770;O43711;Q9H0M0;Q05516;Q02577;A6NFD8;Q9UI15}

4239 [Cluster 386]GO:0010592+P biological\_process [name] positive regulation of lamellipodium assembly [def] "Any process that increases the rate, frequency or extent of the formation of a lamellipodium, a thin sheetlike extension of the surface of a migrating cell." [GOC

4240 Pathogen[ Q2Q067] interacts with 1 human partners:{P63000}

4241 Pathogen[ POC214] interacts with 1 human partners:{P63000}

4242 Pathogen[ P03346] interacts with 1 human partners:{P63000}

4243 Pathogen[ Q85601] interacts with 1 human partners:{P63000}

4244 Pathogen[ P14079] interacts with 1 human partners:{P61158}

4245 Pathogen[ P03383] interacts with 1 human partners:{P63000}

4246 Pathogen[ P03410] interacts with 1 human partners:{P63000}

4247 Pathogen[ P14075] interacts with 1 human partners:{P63000}

4248 Pathogen[ POC206] interacts with 1 human partners:{P63000}

4249 Pathogen[ P03363] interacts with 1 human partners:{P63000}

4250 [Cluster 387]GO:0051051+P biological\_process [name] negative regulation of transport [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the directed movement of substances (such as macromolecules, small molecules, ions) into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore." [GOC

4251 Pathogen[ Q2Q067] interacts with 1 human partners:{Q92681}

4252 Pathogen[ POC214] interacts with 2 human partners:{Q86U90;Q92681}

4253 Pathogen[ P03346] interacts with 2 human partners:{Q92681;Q86U90}

4254 Pathogen[ Q85601] interacts with 1 human partners:{Q92681}

4255 Pathogen[ P14079] interacts with 4 human partners:{Q92681;Q86U90;O75915;Q6PIZ9}

4256 Pathogen[ P03383] interacts with 2 human partners:{Q92681;Q86U90}

4257 Pathogen[ P03410] interacts with 4 human partners:{Q6PIZ9;Q86U90;O75915;Q92681}

4258 Pathogen[ P14075] interacts with 2 human partners:{Q92681;Q86U90}

4259 Pathogen[ POC206] interacts with 2 human partners:{Q92681;Q86U90}

4260 Pathogen[ P03363] interacts with 1 human partners:{Q92681}

4261 [Cluster 388]GO:0002009+P biological\_process [name] morphogenesis of an epithelium [def] "The process in which the anatomical structures of epithelia are generated and organized. An epithelium consists of closely packed cells arranged in one or more layers, that covers the outer surfaces of the body or lines any internal cavity or tube." [GOC

4262 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9UN51;P20719;Q04695}

4263 Pathogen[ POC214] interacts with 3 human partners:{P36952;Q04695;Q9UN51}

4264 Pathogen[ P03346] interacts with 5 human partners:{Q9UN51;Q92826;P20719;Q04695;Q99593}

4265 Pathogen[ Q85601] interacts with 3 human partners:{P36952;Q04695;Q9UNS1}  
4266 Pathogen[ P14079] interacts with 3 human partners:{Q04695;P22914;Q9UNS1}  
4267 Pathogen[ P03383] interacts with 3 human partners:{Q9UNS1;P36952;Q04695}  
4268 Pathogen[ P03410] interacts with 4 human partners:{P36952;Q04695;Q9UNS1;P22914}  
4269 Pathogen[ P14075] interacts with 2 human partners:{Q04695;Q9UNS1}  
4270 Pathogen[ P0C206] interacts with 4 human partners:{Q9UNS1;P36952;P20719;Q04695}  
4271 Pathogen[ P03363] interacts with 5 human partners:{P20719;P36952;Q9UNS1;Q92826;Q04695}  
4272 [Cluster 389]GO:0007518+P biological\_process [name] myoblast cell fate determination [def] "The cell fate determination process in which a cell becomes capable of differentiating autonomously into a myoblast cell regardless of its environment\_ upon determination, the cell fate cannot be reversed. A myoblast is a mononucleate cell type that, by fusion with other myoblasts, gives rise to the myotubes that eventually develop into skeletal muscle fibers." [CL  
4273 Pathogen[ Q2Q067] interacts with 2 human partners:{000458;P15172}  
4274 Pathogen[ P0C214] interacts with 2 human partners:{000458;P15172}  
4275 Pathogen[ P03346] interacts with 2 human partners:{000458;P15172}  
4276 Pathogen[ Q85601] interacts with 2 human partners:{000458;P15172}  
4277 Pathogen[ P14079] interacts with 1 human partners:{000458}  
4278 Pathogen[ P03383] interacts with 2 human partners:{000458;P15172}  
4279 Pathogen[ P03410] interacts with 1 human partners:{000458}  
4280 Pathogen[ P14075] interacts with 2 human partners:{P15172;000458}  
4281 Pathogen[ P0C206] interacts with 2 human partners:{000458;P15172}  
4282 Pathogen[ P03363] interacts with 1 human partners:{P15172}  
4283 [Cluster 390]GO:0051301+P biological\_process [name] cell division [def] "The process resulting in the physical partitioning and separation of a cell into daughter cells." [GOC  
4284 Pathogen[ Q2Q067] interacts with 236 human partners:{P49454;Q12798;Q9Y6X3;Q96EE3;P30281;O60232;P83876;Q8IXJ6;O75351;Q9BTV5;Q9NY P9;P18754;Q7LBR1;P50995;Q14008;Q9BW66;O75909;P24385;Q7Z4H7;Q9Y266;Q96NB3;P63172;Q165 89;Q9NQW6;Q9NPB6;Q8IY18;Q6PJP8;Q14980;P06400;Q7Z5K2;Q9UJX3;Q9UJX5;O43663;Q8WWL7;Q133 52;Q9BYG5;Q6PGQ7;Q7Z460;Q9UNS1;O95997;Q86XL3;P62826;Q99816;Q99741;Q96R06;Q9H1H9;P610 24;P53990;Q99708;Q8N137;O00762;Q8NOZ3;Q94927;Q6P1K2;Q9HBM1;O75794;O75935;Q7Z7A1;Q5EE 01;P54274;Q8NDF8;Q8WYP5;A8MVW5;P42695;Q9H3R5;Q8NHV4;P30279;P62140;Q6P1M3;Q14511;Q5FB B7;Q95347;Q13257;Q86WB0;Q8N2Z9;A8MT69;P56945;Q9UJT9;Q9HC77;Q9UPV0;Q03188;Q9UNH5;Q9NV X0;Q66LE6;Q9NXR1;Q9C099;Q53HL2;O43684;Q8NBT2;Q9H981;Q14457;P63279;Q9P258;Q9NYG5;Q8NF H4;P30304;Q9H1A4;A6NKF1;O75400;O60563;P22674;P14635;Q99871;Q68DK2;Q86XI2;Q9NQS7;Q9UJ X2;Q9Y448;O43264;Q15003;Q8WUM4;Q29RF7;Q7Z7K6;P30307;Q9UM13;O43768;O43236;Q96BT3;Q08J 23;Q6PGN9;Q9BZD4;Q96DE5;O43482;O96017;P51959;O76095;Q86T82;Q12834;P41002;P36873;P692 08;Q15021;P50748;Q96EP1;P0CW71;P24864;O95067;Q9HD42;Q9BT25;Q96Q89;Q9H6D7;Q93K3;P621 36;Q99618;Q96MT8;P50613;Q9UN37;Q9NTI5;Q9BRX2;P78396;P56211;Q9H410;Q5TB80;Q8NFH3;Q8NH Z8;Q9ULW0;P20248;Q02241;O60216;O96020;O00139;Q9H4H8;Q53EZ4;A1L190;O75122;O76064;Q9Y3 E7;Q8IX90;Q8NG31;Q9UM11;Q9UJX4;Q93008;Q9UPY8;Q9Y6D9;Q9BVW5;Q9UKT4;Q96BD8;Q9UI95;Q9H9 00;P33552;O95271;O75410;P41208;Q96IY1;Q9NR09;Q96IK1;Q8IZT6;Q9ULG1;Q6PIF2;Q6DKK2;O751 54;Q86YI8;Q15182;O60583;Q9BXS6;Q69YH5;Q96MF7;Q14683;Q8WVM7;Q49MG5;P30305;P24941;Q9BU 64;Q9UJX6;O95229;O14777;Q9NVM9;Q562F6;P60006;P11802;Q9BYG4;Q9BPX3;Q8TDN4;Q96CS2;Q8ND 76;Q8N3U4;P51808;P27816;Q13042;P61586;Q15691;Q9H081;Q8WVK7;Q8TAP9;Q9BS18;Q9BTE3;Q9BX 26;Q96HI0;Q66K89;Q96FF9;O15392;Q96EA4;Q68CZ6;Q6P0N0;Q9BRK4;Q00534}  
4285 Pathogen[ P0C214] interacts with 233 human partners:{Q14457;Q9UJX6;O43768;Q9H081;Q9BPX3;Q8IY18;P53990;O43684;Q7Z3K3;Q8ND76;Q949 27;P20248;Q8TAP9;Q13257;Q86XI2;O75935;Q16763;Q96HI0;P30307;Q6P0N0;Q29RF7;Q96BT3;P621 40;Q14008;Q9BS18;O00762;O75909;Q53HL2;P56945;O75351;O43264;Q8NDF8;A1L190;P41002;Q022 41;Q15003;Q9BRK4;Q6DKK2;Q7Z4H7;P50613;P51959;Q9UJP4;Q96EA4;Q96R06;Q9BXS6;Q5EE01;Q9HD 42;P11802;Q9C099;Q8WYP5;O94921;P50748;A8MVW5;Q9BRX2;Q9UJX5;Q8NHV4;P61024;Q7Z7A1;P615 86;Q6P1M3;P42695;Q99708;Q9BVW5;Q86WB0;O95229;Q9HC77;Q66LE6;Q96EE3;P63279;Q96MT8;O602 32;Q9ULG1;P14635;Q8NBT2;P69208;P24385;P51808;O00139;Q9NVM9;Q15691;Q9UJX2;Q6P1K2;O757 94;Q562F6;Q9Y266;Q69YH5;Q9UI95;Q96FF9;O95347;Q93008;P27816;Q96CS2;Q9BTE3;Q14980;Q9BW 66;Q9UPV0;Q8TDN4;Q8N2Z9;Q6PGN9;Q6PJP8;Q03188;Q7LBR1;O75122;O43482;Q00534;Q9NPB6;Q96Q 89;Q12798;P56211;Q9H1A4;O96017;Q96BD8;Q9HBM1;Q9P258;P78396;Q9NYP9;Q08J23;Q9BT25;P302 81;Q96MF7;Q8NHZ8;Q86XL3;Q12834;P0CW71;O60583;Q9ULW0;Q13352;P83876;O43663;Q53E24;O950 67;Q9UNS1;P62136;P24941;Q99618;Q8NFH3;P22674;P30305;Q9UNH5;Q7Z7K6;Q86YI8;Q99871;Q145 11;P41208;Q96NB3;Q9Y3E7;P62826;Q9H410;O60563;Q9BX26;Q99816;O15392;Q9H6D7;Q9UPY8;Q9H3 R5;Q7Z5K2;O75410;Q8IX90;Q14683;Q8N3U4;Q8WVM7;Q8NG31;P24864;P30279;Q9UJX4;P63172;Q7Z4 60;Q9BYG5;P36873;Q9H900;A6NKF1;Q5FBB7;Q8IXJ6;Q9BTV5;P60006;Q9Y6X3;Q9NQS7;Q9NR09;Q9UJ X3;Q68CZ6;Q8NOZ3;Q8IYB7;O95997;Q68DK2;Q8WWL7;Q9UN37;Q8NFH4;Q9UM11;Q9NQR1;Q9NXR1;O952 71;Q96IY1;P49454;Q9NVX0;P18754;Q9NTI5;O43236;Q8IZT6;Q9Y448;O76064;P30304;P33552;P509 95;Q5TB80;Q9UJT9;Q7L5Y9;Q9NYG5;O60216;Q6PGQ7;Q66K89;Q9UM13;O75400;Q9BZD4;P06400;Q9UK T4;Q9Y6D9;Q9BYG4;Q15021;Q49MG5;Q9BU64;P54274;O75154;Q96EP1;Q99741;Q9H981;Q8WVK7;O960 20;Q96DE5;Q13042;O14777;Q16589;Q8N137;Q8WUM4}  
4286 Pathogen[ P03346] interacts with 267 human partners:{Q08J23;Q9NVM9;Q7Z3K3;Q66LE6;P62136;Q9Y6D9;P30281;Q8N2Z9;Q7Z7A1;Q8ND76;Q9BT 25;Q5FBB7;Q9BXS6;Q9H6D7;Q16589;P78396;Q8NFH4;Q9NRZ9;O76064;O95229;Q53GT1;P24385;Q9P2 N7;Q96MF7;P30279;Q5XG87;Q9NQW6;O96017;P60006;Q14511;O15392;O43684;Q9UM11;Q96EE3;Q8N3 U4;Q96FF9;Q7Z5K2;Q29RF7;Q99871;Q7Z4H7;P83876;Q9BS18;Q93008;Q9UJT9;Q9NQR1;Q9BX26;P064 00;Q9HD42;Q8WYJ6;A8MT69;O75410;O60563;O75935;Q96R06;O00139;P51808;Q8N137;O75400;Q69Y H5;Q15691;O96020;Q5EE01;P54274;Q8WYP5;A8MVW5;Q99708;Q9ULG1;Q8NHV4;P24941;Q6P1M3;P303

04;Q86WB0;Q9UNS1;Q9HC77;Q9NQY0;O95347;Q14141;O43264;Q9NXR1;Q99816;P24864;Q53HL2;O60232;Q9UM13;Q9H1H9;Q8IXJ6;Q9NPB6;P69208;P18754;Q14457;P63279;O43482;Q96IY1;Q9NYG5;Q6P0N0;Q9P258;Q96IK1;Q9Y5K6;Q86XI2;P61024;Q8TDN4;Q8NFH3;P41002;O95067;Q9UI95;P56211;Q86T82;Q66K89;O95997;Q8N0Z3;P62826;Q8TEW0;Q12834;P30305;Q8IYB7;Q14980;P11802;Q69YQ0;O43768;Q4BRK4;Q9UJX6;Q15555;Q5TB80;Q9Y266;P41208;O60583;O14777;Q9NVX0;Q96DE5;Q9ULW0;Q9Y3E7;O43236;Q96M5;Q96EA4;P56945;A6NKF1;Q9BPX3;P14635;Q8IZU3;Q13042;Q15021;Q9UJX5;Q9BYG5;P0CW71;Q14683;Q15019;Q8WWL7;P36873;O00762;Q14008;Q9UJX2;Q8TD19;Q60447;Q68CZ6;P33552;P20248;Q9BTV5;Q53EZ4;Q9NQS7;Q9NTI5;Q96Q89;Q9H981;Q9Y6X3;Q9UKT4;Q9BYG4;Q562F6;Q6PGN9;Q7Z7K6;Q9H081;Q8NBT2;Q9HBM1;P63172;Q9BW66;Q9UJX3;Q8NHZ8;Q6PIF2;Q9H4H8;P50995;Q9H410;P42695;O75122;Q9H1A4;Q9BU64;Q68DK2;Q02241;Q9C099;Q8TAP9;Q8WVM7;Q8NDF8;P27816;Q03188;O75909;Q8IX90;Q9UJX4;P50748;P36405;Q96PY6;Q96NB3;Q96CS2;O95271;Q9NR09;A1L190;O75351;Q12798;Q9Y448;Q6PJP8;Q96HI0;Q8N0S2;Q9P2J3;Q86YI8;Q8IZT6;Q00534;Q7Z460;Q9UHD8;P62140;P51959;Q7LBR1;O94921;O15182;Q8NG31;Q9H8V3;O94927;Q49MG5;Q86XL3;O75154;O76095;Q8WV I7;Q9BTV7;Q9UPY8;Q9UJP4;Q8IY18;O43663;Q9NYP9;Q15003;Q9H3R5;Q9BRX2;Q99741;Q9BVW5;Q6P1K2;Q6ZU15;O60216;Q8WUM4;Q96BD8;Q6PGQ7;O14965;Q9BZD4;Q99618;P22674;Q96BT3;Q9BTE3;Q13352;Q9H0E7;Q6DKK2;Q8WVK7;Q13257;Q9UNH5;P30307;P49454;Q96EP1;Q9UN37;Q9H900;Q9UBP0;Q9UPV0;Q96MT8;O75794;P61586;P53990}

4287 Pathogen[ Q85601] interacts with 257 human

partners: {Q53EZ4;Q9UJX2;Q14457;Q9NVM9;Q8NBT2;Q99816;P30281;P22674;P49454;Q6PGN9;Q9Y5T5;Q8N137;P27816;O95229;Q96DE5;Q9UJX6;Q16763;Q9BTE3;P24385;Q7Z7K6;Q9H0E7;O75154;Q02241;Q8NFH4;Q9NQW6;O96017;Q8NFH3;Q03188;O60563;P51808;P36405;Q9H900;Q95347;Q14008;O75909;Q96EE3;Q9Y5K6;Q9H6D7;Q9BT25;O15182;Q99871;Q9NQS7;Q8IY18;Q9BYG5;Q9UI95;Q9UBP0;Q9NQ R1;Q9H081;P06400;Q96PY6;Q12798;Q9P258;Q96IK1;P50995;Q96BT3;Q9BS18;O75935;Q7Z4H7;Q9UK T4;O75400;Q5EE01;Q9NVX0;Q8NHZ8;Q8WVP5;A8MVW5;Q99708;Q8NHV4;Q8ND76;Q6P1M3;P60006;O60583;Q49MG5;Q9H1A4;P62826;Q86WB0;Q7L5Y9;O75794;Q9HC77;Q16589;O43264;P42695;Q53HL2;Q9BX S6;O60232;Q9H1H9;Q9C099;Q8NG31;O15392;P30304;Q9H3R5;Q7LBR1;Q9BW66;Q66LE6;P61024;Q96E A4;Q8TDN4;Q9ULW0;P51959;P41002;O60216;Q8WVM7;Q9BX26;Q8IZT6;P63172;P56211;Q9NTI5;A6NK F1;Q29RF7;Q93008;Q96R06;Q9UJP4;P63279;Q12834;Q8IYB7;P11802;Q13257;O43663;Q8TAP9;Q7Z5 K2;O75122;Q9UNH5;O96020;P30305;O14965;Q9Y266;Q9UPV0;Q7Z3K3;Q9BPX3;Q86XL3;Q96Q89;Q13352;Q15555;Q9H981;P30307;O75351;Q5XG87;O43768;P56945;O76064;Q9Y448;Q562F6;P14635;Q8IX J6;Q13042;Q9UJX5;P62136;Q9NYP9;Q9BU64;Q14683;Q6PGQ7;Q9BZD4;Q99618;P36873;Q9UM 13;P53990;Q9BRK4;Q6DKK2;Q15691;O60447;Q96MT8;Q96BD8;Q9Y6D9;Q9UJT9;A8MT69;P33552;Q9NY G5;P30279;P20248;Q7Z7A1;Q5TB80;P78396;O94921;O00762;Q9BVA0;Q86YI8;Q9NPB6;Q8N2Z9;Q9UJ X3;Q9ULG1;P61586;P50613;Q6PIF2;Q9H4H8;O94927;Q69YQ0;Q9H410;Q68DK2;Q8NDF8;Q8IX90;Q8N3 U4;Q86T82;Q14980;Q9UJX4;Q9P2J3;Q9UM11;P50748;Q8WVK7;O76095;Q96IY1;P83876;Q8WYJ6;Q96C S2;Q9BTV5;P18754;Q9NR09;Q8WUM4;Q6PJP8;Q7Z460;Q96HI0;Q66K89;P62140;Q68XI2;Q00534;Q8N0 Z3;O95067;Q96EP1;Q96NB3;Q496M5;Q9NXR1;O95271;Q9UPY8;Q9BRX2;Q99741;Q14511;Q6P0N0;Q150 03;Q96FF9;P69208;Q9UN37;O43482;Q6P1K2;P24941;Q9Y3E7;Q9HD42;Q9Y6X3;O14777;O43684;O001 39;O75410;Q9HBM1;Q15021;Q68CZ6;Q69YH5;Q5FBB7;P51955;O95997;P54274;O43236;Q9BVW5;Q96M F7;A1L190;Q8WWL7;P24864;Q9BYG4;P41208;Q9UNS1}

4288 Pathogen[ P14079] interacts with 238 human

partners: {Q15691;Q14980;Q6P0N0;P51959;P54274;Q9NQW6;Q96IY1;Q03188;Q9BRX2;Q6PGQ7;Q9UP Y8;Q9ULG1;Q5EE01;Q96KR4;Q9BTV5;P63279;P63172;O43482;O75400;Q68DK2;Q96MF7;P30307;Q9UK T4;O43768;Q9BYG5;Q7Z460;P51808;Q8IX90;Q96BT3;Q9HBM1;Q9H4H8;Q96R06;Q96HI0;P78396;O952 71;P50995;P24864;P36873;O95229;Q8NBT2;Q9UJX3;Q76095;Q99871;Q96FF9;Q9H1A4;Q7Z3 K3;Q02241;Q9UJX5;Q9NVX0;Q8WVI7;Q96NB3;Q9BZD4;Q5XG87;O15392;P83876;Q7LBR1;P62136;O602 16;P69208;Q9BTV7;Q9Y266;Q9HD42;O95067;Q9NVM9;P68363;Q8NG31;A8MVW5;Q8ND76;Q9ULW0;Q7L5 Y9;Q9H900;Q86XL3;Q15003;Q9BTE3;Q9Y448;P56211;Q69YQ0;P30304;P60006;Q9BXS6;Q5FBB7;Q6PI F2;Q9H410;Q99618;P0CW71;Q9NR09;Q9NTI5;Q9NYG5;Q8TEW0;P33552;Q96IK1;Q99741;Q8N3U4;P506 13;Q9H981;P36405;Q8IYB7;Q8TDN4;Q99661;O43663;Q8WYJ6;P14635;Q96IY1;P51955;Q8NHV4;Q8WY P5;O95347;Q9BW66;Q9UM11;Q8IZU3;Q96Q89;Q8WUM4;Q99708;Q9UM13;Q12798;Q13042;O00139;Q155 55;Q9BYG4;Q96DE5;Q66K89;P41002;Q8N2Z9;Q13257;Q96EA4;Q9NQR1;Q562F6;Q8WVK7;Q66LE6;P621 40;Q9H1H9;Q9H6D7;Q8NFH3;P61586;Q96EE3;O75909;Q9H8V3;Q8WWL7;Q08J23;A6NKF1;Q9P258;O432 64;Q49MG5;A8MT69;Q9NYP9;Q8N0Z3;Q9C099;Q86YI8;Q6DKK2;Q9H3R5;O95997;Q9UJX6;Q86WB0;Q9UN 37;Q6PGN9;Q9BX26;Q8IXJ6;Q5TB80;Q3HL2;Q86Y91;Q8TAP9;P41208;Q9Y5K6;P20248;Q9NQS7;Q9NQ S7;Q9BPX3;O75410;Q86XI2;O60583;Q8IY18;Q9Y3E7;Q9Y6X3;Q9UQE7;Q7Z4H7;P49454;Q8N137;O751 54;Q16589;Q9BT25;O00762;O15182;P30305;Q9BU64;O75351;Q9UJP4;Q68CZ6;P62826;Q9UJT9;Q6PJ P8;Q29RF7;Q9NPB6;Q9NXR1;P50748;O96020;O75794;Q15021;Q99816;Q14457;Q7Z5K2;Q96BD8;Q9BV A0;O75122;Q14683;O14965;Q9UNS1;Q9BRK4;Q13352;O75935;Q9HC77;P42695;O60232;Q9UJX4;P539 90;P18754;O14777;Q9BS18;Q8IZT6;P27816;O43684;Q9UNH5;Q6P1M3;Q53EZ4;Q7Z7A1;P22674;O432 36;O94927;P49917;Q7Z7K6;Q6P1K2;Q9UPV0;Q9H081;Q14008;Q9BVW5;A1L190;P61024;Q96CS2}

4289 Pathogen[ P03383] interacts with 218 human

partners: {Q7Z7A1;Q14683;Q9BRK4;Q9UNS1;Q14457;Q96EE3;Q13257;P41002;P30307;Q8NHZ8;Q9NQ S7;Q03188;P62140;P49454;P50995;P56945;Q8N0Z3;O75794;Q8N2Z9;Q8NFH4;Q7Z460;P61024;Q9BV W5;Q86XI2;Q96BD8;Q96DE5;Q68DK2;Q02241;Q8NBT2;Q8N3U4;Q14008;P51808;Q9H900;Q15691;P838 76;Q9NYG5;Q9UJX6;Q8TD19;Q9NVX0;Q9H981;O43264;Q5FBB7;Q9UI95;P53990;Q9P258;O43236;Q9BX S6;P63172;P22674;O75410;Q9Y3E7;Q7Z4H7;Q5EE01;Q8WWL7;Q8WVP5;A8MVW5;P41208;Q8NHV4;Q9BT E3;Q6P1M3;P30304;Q9NYP9;Q9NVM9;Q86WB0;Q9HC77;O00762;Q6PJP8;O95347;Q12798;Q8NDF8;Q998 16;O60232;P24385;Q9Y6X3;Q9UKT4;Q9BRX2;P69208;Q9H1A4;O75400;Q7Z7K6;Q13352;Q00534;Q96E A4;O60216;Q96MF7;Q13042;P14635;Q96MT8;P11802;P06400;Q66K89;Q96BT3;P78396;Q96R06;A6NK F1;Q9H1H9;P36873;P62826;Q99618;P30279;P33552;P62136;Q12834;Q6PGN9;Q99871;Q15003;Q5TB 80;Q96CS2;P60006;P27816;Q53HL2;O94927;O95229;Q9BU64;O60563;Q7LBR1;P50613;Q9UM13;Q96H I0;P61586;Q43768;P51959;O43684;P24941;Q9BYG5;P18754;P0CW71;Q6PGQ7;Q9UNH5;Q14511;Q9BZ D4;Q9UM11;Q7Z3K3;Q08J23;Q6DKK2;O75909;Q68CZ6;Q9BS18;Q9NPB6;O95067;Q8WVK7;Q96Q89;A8MT 69;O96020;Q9BT25;Q562F6;O75935;Q86YI8;Q8TDN4;Q8ND76;Q9HBM1;O94921;Q9H4H8;Q9Y266;Q9HD 42;Q9H410;Q29RF7;O14965;Q9H081;Q8IX90;Q96FF9;Q96IY1;Q14980;Q99708;Q9UJX4;Q9UPV0;Q8NG

- 31;Q96PY6;Q96NB3;A1L190;Q6P1K2;Q9UJX5;Q9NR09;O95997;Q9Y448;Q9BW66;Q8N137;Q8WUM4;Q9H6D7;Q9ULW0;Q9C099;O14777;Q6P0N0;Q96EP1;O43663;Q49MG5;Q9UJX2;P56211;O76095;O95271;P24864;Q9NTI5;P30281;Q9H3R5;Q9UJX3;O60583;Q9UN37;Q9NQR1;Q53EZ4;Q9UPY8;O75154;P63279;Q69YH5;P20248;O43482;Q9BPX3;Q15021;P54274;Q8NFH3;Q99741;Q7Z5K2;Q8TAP9;O96017;Q9Y6D9;Q9BX26;P50748;Q8WVM7;Q9BYG4}
- 4290 Pathogen[ P03410] interacts with 256 human partners: {Q03188;Q9UKT4;Q9BS18;Q9Y6G9;P83876;Q8IX90;Q7Z460;O60583;Q86Y91;O15392;Q29RF7;Q8IXJ6;Q9H981;Q8WVI7;Q96Q89;O75154;Q16589;Q86WB0;O75794;Q9UI95;P51808;Q99708;Q9H3R5;O43684;Q9H6D7;P30279;P50995;P27816;Q9H1A4;Q96NB3;O00139;Q00534;Q99618;Q9NXR1;Q8TEW8;Q66K89;Q9HC77;Q9H410;Q8NG31;Q53HL2;Q9BTV7;Q8NFH4;O75351;Q9H1H9;P54274;O96020;Q9UQE7;Q7Z7A1;Q146BT3;Q9NVM9;Q7Z5K2;Q9UJX4;Q9NMG5;Q8WVL7;Q14008;Q9BVW5;Q9UM13;Q9BTE3;P62136;P42695;P36405;O15182;Q14457;Q9ULG1;P63172;P50748;Q9NYP9;Q8NHZ8;P22674;Q96HI0;O95067;Q69YQ0;Q15003;Q6P1M3;Q562F6;Q12798;Q8N137;P06400;Q6DKK2;Q9UNH5;Q96R06;O95997;Q6ZU15;Q9BXS6;Q9NQW6;Q8TAP9;Q6P0N0;O60216;P50613;Q68CZ6;Q96CS2;P41002;Q5EE01;Q9BTV5;P53990;O43264;Q96MF7;Q8IZT6;Q7Z7K6;P49454;Q9NQY0;Q9Y5K6;O95347;P78396;O14965;Q96EA4;Q9P2J3;Q99816;Q9NR09;O60563;Q8NHV4;Q8N0Z3;P24385;Q9Y3E7;Q96IY1;Q96KR4;Q9Y448;Q14980;P33552;P14635;Q9BX26;Q15555;Q9UM11;Q14511;O75400;Q15691;Q13042;O43236;P62826;P62140;P51959;P61586;Q6PJP8;P30304;P24941;Q9NQR1;P0CW71;Q9HD42;Q9BRX2;Q9UN37;O95271;O43482;P11802;Q6P1K2;Q8IZU3;Q9NVX0;Q9NTI5;O75909;Q14683;O60232;Q96DE5;Q9BZD4;O60447;Q8WVK7;Q69YH5;Q8WYJ6;O96017;P36873;Q9HBM1;Q5XG87;A8MVW5;Q6PGQ7;Q96EE3;O75410;Q9UJX5;O75935;Q9UY8;Q8N3U4;Q9NH8;Q53EZ4;Q8IYB7;O94277;P20248;O43768;Q96T23;Q12834;Q9UJX6;Q9UM13;Q5FBB7;Q08J23;Q9UJX3;Q9ULW0;P69208;P56945;Q9UN37;O00762;P68363;Q5TB80;Q8IY18;P63279;P61024;Q6PIF2;Q8TEW0;A8MT69;Q9NPB6;Q7Z3K3;Q9UPV0;Q8WVM7;Q9H900;Q9Y266;O95229;Q9H081;Q9UJP4;Q96FF9;O76095;Q9C099;P60006;Q66LE6;P18754;Q9H8V3;Q6PGN9;A6NKF1;Q99871;Q96BD8;P30305;A1L190;Q9UJT9;Q9BPX3;Q86XI2;Q9H4H8;Q9P258;P41208;Q8WUM4;Q68DK2;Q8TDN4;P24864;P56211;Q8WYP5;O75122;Q8NFH3;Q7L5Y9;Q8ND76;Q7LBR1;Q9BT25;P30307;Q86XL3;Q9UJX6;Q96EP1;Q49MG5;Q7Z4H7;Q13352;Q9BYG4;Q9BVA0;O14777;Q9BYG5;Q02241;Q9BU64;Q15021;O43663;Q8N2Z9;Q8N0S2;Q9BW66;Q13257;Q9NQS7;Q96IK1;Q99741;Q86YI8}
- 4291 Pathogen[ P14075] interacts with 221 human partners: {Q14457;Q96MT8;A8MT69;Q99871;Q14511;Q9BS18;P60006;Q9Y266;Q13042;Q9H1H9;O95067;P24941;Q14683;P53990;Q9Y6D9;Q02241;O43663;P11802;Q9H081;Q8NDF8;P61024;Q7Z4H7;Q562F6;O75410;O43236;Q49MG5;O76095;Q9UKT4;Q9NQS7;Q9Y6X3;Q8WVM7;P51959;P14635;Q7LBR1;Q9UM11;Q96R06;P51808;Q8WVK7;P30281;P30279;Q5EE01;Q8WUM4;O60563;Q86XI2;Q8WYP5;A8MVW5;P50613;Q8NHV4;Q7Z460;Q9BX26;Q6P1M3;Q9BRX2;Q86WB0;Q96IY1;Q13257;Q68CZ6;Q00534;Q9HC77;A1L190;Q9BYG4;Q9BXS6;O60232;Q9NQR1;O60583;Q7L5Y9;O95997;O43684;Q12798;P62140;Q9BW66;Q96BD8;Q9UI95;P63279;O96020;P63172;O75794;O14777;Q9UJX2;Q9BT25;Q96FF9;P36873;O95229;O95347;O75400;Q9BVW5;Q69YH5;Q9Y3E7;P62136;P78396;Q9UJX6;Q8N2Z9;Q8NHZ8;Q9BTE3;Q9UPV0;P69208;Q9H3R5;Q9ULW0;Q96HI0;P50995;Q68DK2;P54274;Q9UPY8;Q96DE5;O00762;Q9BU64;Q96EA4;O00139;O43768;Q9P258;P22674;O75935;Q9UJX5;O96017;P0CW71;Q7Z5K2;O14965;Q8WVL7;Q15691;Q9NYP9;Q5TB80;Q96EE3;Q8N137;Q9C099;P20248;P62826;Q96BT3;Q96CS2;Q86YI8;Q5FBB7;P61586;Q9H4H8;P30304;P06400;Q9H410;P41208;Q8IX90;Q66K89;Q7Z7K6;A6NKF1;Q8NFH3;Q9UJX4;Q9H900;Q53EZ4;Q9BRK4;Q53HL2;Q29RF7;Q6PGN9;Q9NVX0;Q9UN37;P50748;P18754;Q9NR09;Q8ND76;Q96PY6;Q9HD42;Q9BYG5;Q99741;O94927;P83876;Q9H981;Q9HBM1;Q9H1A4;P56211;Q6P1K2;P24385;O75154;Q9NPB6;Q15003;Q99816;Q13352;Q14008;Q99618;P41002;Q96MF7;Q08J23;O43264;Q8TAP9;O95271;Q9UM13;Q14980;O94921;O75909;Q03188;Q7Z3K3;Q8NG31;Q9UJX3;Q9NVM9;Q8NBT2;Q9NTI5;Q9NYG5;P49454;Q6P0N0;Q6PJP8;Q99708;Q96IK1;Q9UNH5;Q9BPX3;Q9H6D7;Q96Q89;P27816;P30307;Q7Z7A1;Q8NFH4;Q9Y448;O60216;Q6PGQ7;Q8NBT2;Q9BZD4;Q12834;Q15021;Q96NB3;Q6DKK2;P33552;P56945;Q8N0Z3;Q96EP1;Q9UN37;Q8N3U4;P24864;Q8TD19}
- 4292 Pathogen[ P0C206] interacts with 278 human partners: {O95271;Q9UN37;Q16763;Q96EE3;Q9HBM1;Q9UJT9;O15182;Q68DK2;Q9P2N7;O60216;Q8N137;Q9BPX3;Q08J23;Q8WYP5;Q8WVL7;Q5XG87;Q9BTE3;P83876;Q9UN37;P69208;Q496M5;Q9BVA0;P61024;Q7LBR1;O75794;Q9C099;Q9HC77;Q14008;Q96Q89;Q8TDN4;Q9UJX3;Q9H900;Q9UBP0;Q96KR4;Q99708;Q8WVI7;Q15019;P30307;Q9H981;Q9Y3E7;O96017;Q9Y5T5;Q9Y6D9;Q93008;Q9ULW0;P18754;Q96HI0;A1L190;P51955;Q86XL3;O75154;Q96EP1;Q9UJX5;Q9NQW6;P56211;Q9UJX2;Q9BTV5;P50995;P30279;Q6PJP8;Q66LE6;Q15691;O95997;Q9H081;O14777;Q7Z5K2;P42695;Q9Y448;Q99618;Q9BT25;Q29RF7;Q9BYG5;Q6PGQ7;Q9NYP9;Q14457;Q15021;Q96PY6;Q9BZD4;P20248;Q9UPV0;Q8IZT6;Q9H410;P30305;P62826;Q99816;Q6PGN9;P49454;Q16589;Q8TD19;Q9H1H9;Q99741;Q13257;Q9BX26;Q8IZU3;Q9H081;O96020;Q9BU64;Q14141;Q02241;Q9Y6X3;Q9BW66;O43236;Q8IX90;P61586;Q9NVX0;Q69YQ0;Q96FF9;Q9UJP4;Q9BS18;Q15003;P30291;O75122;Q86Y91;O75410;Q9UKT4;Q5EE01;P54274;Q8TEW0;Q6P1K2;Q9H1A4;Q6DKK2;Q6ZU15;Q8NBT2;O60447;A8MVW5;P27816;Q96BD8;A6NKF1;Q9H3R5;Q8WYJ6;Q96NB3;P49917;Q9NYG5;Q9UNH5;Q9UJX4;Q86XI2;Q7L5Y9;Q9UPY8;Q9UQE7;P50613;Q9NR09;O95347;Q9BVW5;Q9ULG1;P51959;P51808;Q14683;Q96IY1;Q9P2J3;P53990;Q9NQR1;Q9Y6G9;Q7Z7K6;Q96BT3;Q7Z3K3;Q8NDF8;O43768;Q96CS2;O43663;Q13352;Q7Z4H7;Q5FBB7;P49916;Q9NPB6;Q9UM11;Q86T82;O94927;Q53HL2;O00762;O43482;Q96MF7;Q9H8V3;Q49MG5;Q8NHV4;O15392;Q6P0N0;O00139;Q9NTI5;P0CW71;Q8N0S2;Q8IXJ6;Q9P258;Q9NQY0;P62140;Q9UJX6;O75909;P36405;Q8NFH4;Q8WUM4;P33552;P30304;Q86YI8;Q562F6;Q9Y5K6;O75400;Q7Z7A1;Q69YH5;P78396;Q9H6D7;Q99871;P41208;Q8N3U4;Q9NR09;Q86WB0;Q8N0Z3;O95067;Q9NXR1;P56945;Q96EA4;Q9HD42;Q96DE5;Q8ND76;Q8TAP9;Q8N2Z9;Q16181;Q15555;Q9BTV7;Q12798;P14635;P60006;Q9BXS6;O43684;O60583;O14965;Q14980;Q9UM13;Q96MT8;Q7Z460;Q9NVM9;O75351;Q9NQS7;O75935;Q66K89;Q8NFH3;P63172;P36873;Q13042;Q8IYB7;O76064;Q8IY18;P50748;O60563;Q96IK1;Q9BW19;O43264;P24864;P24941;Q68CZ6;Q8WVM7;Q9NTJ3;Q8NG31;Q9BRX2;Q9Y266;P41002;Q5TB80;P11802;O60232;P22674;Q6P1M3;O94921;Q14511;Q12834;Q8WVK7;Q9UI95;Q9BYG4;Q8NHZ8;A8MT69;Q03188;P62136;Q99986;O76095;Q9H4H8;P24385;O95229;Q6PIF2;Q00534;P30281;P06400}
- 4293 Pathogen[ P03363] interacts with 245 human partners: {Q9UJX2;O75410;Q9NYG5;Q96EA4;A6NKF1;Q69YH5;Q9BZD4;Q96IK1;Q13042;P49454;Q96EP1;Q6P0N0;Q96IY1;Q8WVL7;Q6P1K2;P62136;Q9NYP9;Q7Z7K6;P69208;Q7Z7A1;Q16589;Q9Y6D9;Q9HC

77;Q9UNH5;Q08J23;Q86WB0;Q9H081;Q9H981;Q9ULG1;P36873;P24864;Q8NFH4;O00762;Q15021;O605  
63;Q95229;Q96DE5;Q9BRK4;Q96MT8;Q96BD8;Q9BTE3;Q9UJT9;P62140;P33552;Q8NHV4;O75794;P302  
79;Q8WYP5;Q9NQW6;O60232;Q14457;P20248;O95347;Q8NFH3;Q9P2N7;Q86XI2;Q14980;Q9Y266;Q156  
91;O75909;Q9ULW0;O43264;Q8NBT2;O60447;P68363;Q8ND76;Q8NHZ8;Q9H6D7;Q02241;Q9NPB6;Q8N2  
Z9;Q9P258;Q9UJX3;Q9BT25;Q66K89;Q9H4H8;Q9C099;Q53HL2;Q8WVK7;Q9BXS6;Q9H410;P24941;P507  
48;Q9UJX5;Q6PGQ7;P41208;Q49MG5;Q68DK2;P06400;Q9BYG4;Q8WYJ6;Q8IX90;P41002;Q9NVA2;Q9UJ  
X6;P50995;Q9FBB7;Q66LE6;Q9UM11;Q9BS18;Q9UJX4;O96017;O75351;Q9H900;P30304;O75400;Q005  
34;Q5EE01;Q6PGN9;A8MVW5;Q99708;Q9UPY8;Q9UN37;Q8IYM1;P27816;Q6P1M3;Q96R06;O60583;Q53E  
Z4;P60006;Q68CZ6;O43684;O95067;O96020;Q12798;Q6PIF2;O94927;Q6DKK2;Q8WUM4;Q9NR09;P631  
72;Q8IYB7;Q9BW66;Q14511;P54274;Q9BVW5;Q9NQS7;Q8NDF8;Q99741;P61024;Q9NVX0;Q86T82;P783  
96;Q8WVM7;Q9UNS1;O75935;Q9Y3E7;Q9HBM1;Q7LBR1;Q7Z460;Q9UKT4;O43768;O95271;Q9BPX3;Q9H1  
A4;Q9UHD8;Q9UI95;Q03188;Q8NG31;Q13257;Q8N0Z3;P63279;Q96CS2;Q7Z3K3;Q99871;P83876;Q6PJ  
P8;Q9BYG5;P51808;Q29RF7;Q99618;O76095;O75154;P0CW71;Q9UPV0;P24385;Q9P2J3;P42695;Q96B  
T3;Q9UM13;P56945;Q8TDN4;Q96HI0;O15182;P51959;Q9UJP4;Q9NVM9;P56211;Q9NQY0;Q9H3R5;Q9NT  
I5;Q9BRX2;Q6ZU15;Q99816;Q8N3U4;O14777;Q9NQR1;Q96Q89;O95997;Q12834;Q14008;Q9Y448;O434  
82;Q96FF9;Q9H1H9;Q9Y6X3;P11802;Q53GT1;O43663;Q562F6;P22674;Q9NXR1;Q14141;O00139;P187  
54;Q99719;P30307;Q7Z5K2;P30281;P62826;Q8IY18;Q13352;Q7Z4H7;Q5TB80;Q96NB3;Q96MF7;Q8IZ  
U3;Q93008;Q86XL3;Q8IZT6;Q14683;Q9Y5K6;O43236;Q9BTV5;Q15003;Q9BX26;A8MT69;Q15555;Q9HD  
42;A1L190;Q8TAP9;O60216;Q69YQ0;Q8N137;P53990}

4294 [Cluster 391]GO:0048546+P biological\_process [name] digestive tract morphogenesis  
[def] "The process in which the anatomical structures of the digestive tract are  
generated and organized. The digestive tract is the anatomical structure through which  
food passes and is processed." [GOC

4295 Pathogen[ Q2Q067] interacts with 3 human partners: {P08151;O15350;P56693}  
4296 Pathogen[ P0C214] interacts with 3 human partners: {O15350;P56693;P08151}  
4297 Pathogen[ P03346] interacts with 3 human partners: {P56693;O15350;P08151}  
4298 Pathogen[ Q85601] interacts with 3 human partners: {P08151;P56693;O15350}  
4299 Pathogen[ P14079] interacts with 4 human partners: {P08151;O15350;Q8IWX6;P56693}  
4300 Pathogen[ P03383] interacts with 2 human partners: {O15350;P56693}  
4301 Pathogen[ P03410] interacts with 3 human partners: {P56693;O15350;Q8IWX6}  
4302 Pathogen[ P14075] interacts with 2 human partners: {P56693;O15350}  
4303 Pathogen[ P0C206] interacts with 3 human partners: {P56693;O15350;P08151}  
4304 Pathogen[ P03363] interacts with 2 human partners: {P08151;P56693}

4305 [Cluster 392]GO:0046324+P biological\_process [name] regulation of glucose import  
[def] "Any process that modulates the frequency, rate or extent of the import of the  
hexose monosaccharide glucose into a cell or organelle." [GOC

4306 Pathogen[ Q2Q067] interacts with 2 human partners: {Q9BZE9;Q9UKG1}  
4307 Pathogen[ P0C214] interacts with 2 human partners: {Q9UKG1;Q9BZE9}  
4308 Pathogen[ P03346] interacts with 2 human partners: {Q9BZE9;Q9UKG1}  
4309 Pathogen[ Q85601] interacts with 2 human partners: {Q9BZE9;Q9UKG1}  
4310 Pathogen[ P14079] interacts with 2 human partners: {Q9UKG1;Q9BZE9}  
4311 Pathogen[ P03383] interacts with 1 human partners: {Q9BZE9}  
4312 Pathogen[ P03410] interacts with 2 human partners: {Q9BZE9;Q9UKG1}  
4313 Pathogen[ P14075] interacts with 1 human partners: {Q9BZE9}  
4314 Pathogen[ P0C206] interacts with 2 human partners: {Q9UKG1;Q9BZE9}  
4315 Pathogen[ P03363] interacts with 2 human partners: {Q9BZE9;Q9UKG1}

4316 [Cluster 393]GO:0043457+P biological\_process [name] regulation of cellular  
respiration [def] "Any process that modulates the frequency, rate or extent of cellular  
respiration, the enzymatic release of energy from organic compounds." [GOC

4317 Pathogen[ Q2Q067] interacts with 2 human partners: {Q8TCS8;Q9HAZ2}  
4318 Pathogen[ P0C214] interacts with 2 human partners: {Q9HAZ2;Q8TCS8}  
4319 Pathogen[ P03346] interacts with 2 human partners: {Q8TCS8;Q9HAZ2}  
4320 Pathogen[ Q85601] interacts with 2 human partners: {Q8TCS8;Q9HAZ2}  
4321 Pathogen[ P14079] interacts with 4 human partners: {Q9HAZ2;Q9NZ45;Q8NC60;Q8TCS8}  
4322 Pathogen[ P03383] interacts with 2 human partners: {Q8TCS8;Q9HAZ2}  
4323 Pathogen[ P03410] interacts with 4 human partners: {Q8TCS8;Q9HAZ2;Q8NC60;Q9NZ45}  
4324 Pathogen[ P14075] interacts with 2 human partners: {Q9HAZ2;Q8TCS8}  
4325 Pathogen[ P0C206] interacts with 2 human partners: {Q9HAZ2;Q8TCS8}  
4326 Pathogen[ P03363] interacts with 1 human partners: {Q9HAZ2}

4327 [Cluster 394]GO:0009950+P biological\_process [name] dorsal/ventral axis specification  
[def] "The establishment, maintenance and elaboration of the dorsal/ventral axis. The  
dorsal/ventral axis is defined by a line that runs orthogonal to both the  
anterior/posterior and left/right axes. The dorsal end is defined by the upper or back  
side of an organism. The ventral end is defined by the lower or front side of an  
organism." [GOC

4328 Pathogen[ Q2Q067] interacts with 2 human partners: {Q99750;Q9HC62}  
4329 Pathogen[ P0C214] interacts with 2 human partners: {Q99750;Q9HC62}  
4330 Pathogen[ P03346] interacts with 3 human partners: {Q99750;Q9HC62;Q9UIW0}  
4331 Pathogen[ Q85601] interacts with 2 human partners: {Q9HC62;Q99750}  
4332 Pathogen[ P14079] interacts with 2 human partners: {Q9HC62;Q99750}  
4333 Pathogen[ P03383] interacts with 2 human partners: {Q99750;Q9HC62}  
4334 Pathogen[ P03410] interacts with 2 human partners: {Q9HC62;Q99750}  
4335 Pathogen[ P14075] interacts with 2 human partners: {Q9HC62;Q99750}  
4336 Pathogen[ P0C206] interacts with 2 human partners: {Q9HC62;Q99750}  
4337 Pathogen[ P03363] interacts with 3 human partners: {Q9UIW0;Q99750;Q9HC62}

4338 [Cluster 395]GO:0048814+P biological\_process [name] regulation of dendrite

morphogenesis [def] "Any process that modulates the frequency, rate or extent of dendrite morphogenesis." [GOC

4339 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9Y250}

4340 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y250}

4341 Pathogen[ P03346] interacts with 1 human partners:{Q9Y250}

4342 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y250}

4343 Pathogen[ P14079] interacts with 1 human partners:{Q9Y250}

4344 Pathogen[ P03383] interacts with 1 human partners:{Q9Y250}

4345 Pathogen[ P03410] interacts with 1 human partners:{Q9Y250}

4346 Pathogen[ P14075] interacts with 1 human partners:{Q9Y250}

4347 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y250}

4348 Pathogen[ P03363] interacts with 1 human partners:{Q9Y250}

4349 [Cluster 396]GO:0006275+P biological\_process [name] regulation of DNA replication [def] "Any process that modulates the frequency, rate or extent of DNA replication." [GOC

4350 Pathogen[ Q2Q067] interacts with 6 human partners:{P30153;P67775;D6RGH6;P12004;Q9BVC3;O75496}

4351 Pathogen[ P0C214] interacts with 5 human partners:{D6RGH6;P30153;O75496;Q9BVC3;P67775}

4352 Pathogen[ P03346] interacts with 7 human partners:{P12004;Q02535;D6RGH6;P67775;P30153;Q9BVC3;O75496}

4353 Pathogen[ Q85601] interacts with 6 human partners:{O75496;P30153;D6RGH6;Q9BVC3;P67775;P12004}

4354 Pathogen[ P14079] interacts with 6 human partners:{D6RGH6;Q9BVC3;Q9UQE7;P12004;P30153;O75496}

4355 Pathogen[ P03383] interacts with 5 human partners:{D6RGH6;P30153;P67775;Q9BVC3;O75496}

4356 Pathogen[ P03410] interacts with 7 human partners:{Q9UQE7;D6RGH6;Q9BVC3;P30153;O75496;P67775;P12004}

4357 Pathogen[ P14075] interacts with 5 human partners:{Q9BVC3;P67775;P30153;O75496;D6RGH6}

4358 Pathogen[ P0C206] interacts with 7 human partners:{O75496;P30153;D6RGH6;P67775;Q9UQE7;Q9BVC3;P12004}

4359 Pathogen[ P03363] interacts with 5 human partners:{Q9BVC3;D6RGH6;O75496;P30153;P67775}

4360 [Cluster 397]GO:0006807+P biological\_process [name] nitrogen compound metabolic process [def] "The chemical reactions and pathways involving organic or inorganic compounds that contain nitrogen, including (but not limited to) nitrogen fixation, nitrification, denitrification, assimilatory/dissimilatory nitrate reduction and the interconversion of nitrogenous organic matter and ammonium." [CHEBI

4361 Pathogen[ Q2Q067] interacts with 2 human partners:{Q14865;Q9NQR4}

4362 Pathogen[ P0C214] interacts with 2 human partners:{Q14865;Q9NQR4}

4363 Pathogen[ P03346] interacts with 3 human partners:{Q9NQR4;Q14865;Q86X76}

4364 Pathogen[ Q85601] interacts with 2 human partners:{Q9NQR4;Q14865}

4365 Pathogen[ P14079] interacts with 3 human partners:{Q14865;Q6IA69;Q9NQR4}

4366 Pathogen[ P03383] interacts with 1 human partners:{Q9NQR4}

4367 Pathogen[ P03410] interacts with 4 human partners:{Q86X76;Q9NQR4;Q14865;Q6IA69}

4368 Pathogen[ P14075] interacts with 1 human partners:{Q9NQR4}

4369 Pathogen[ P0C206] interacts with 3 human partners:{Q9NQR4;Q14865;Q86X76}

4370 Pathogen[ P03363] interacts with 2 human partners:{Q14865;Q9NQR4}

4371 [Cluster 398]GO:0030866+P biological\_process [name] cortical actin cytoskeleton organization [def] "A process that is carried out at the cellular level which results in the assembly, arrangement of constituent parts, or disassembly of actin-based cytoskeletal structures in the cell cortex, i.e. just beneath the plasma membrane." [GOC

4372 Pathogen[ Q2Q067] interacts with 5 human partners:{Q5VSL9;Q9Y2J2;P27797;Q12959;P11171}

4373 Pathogen[ P0C214] interacts with 4 human partners:{Q5VSL9;Q12959;P27797;P11171}

4374 Pathogen[ P03346] interacts with 6 human partners:{P11171;O43491;Q9Y2J2;P27797;Q5VSL9;Q12959}

4375 Pathogen[ Q85601] interacts with 5 human partners:{Q9Y2J2;P27797;P11171;Q5VSL9;Q12959}

4376 Pathogen[ P14079] interacts with 3 human partners:{Q9Y2J2;P11171;Q5VSL9}

4377 Pathogen[ P03383] interacts with 2 human partners:{Q5VSL9;P27797}

4378 Pathogen[ P03410] interacts with 6 human partners:{Q12959;Q5VSL9;P11171;O43491;Q9Y2J2;P27797}

4379 Pathogen[ P14075] interacts with 4 human partners:{Q9Y2J2;Q5VSL9;P27797;P11171}

4380 Pathogen[ P0C206] interacts with 6 human partners:{P27797;Q5VSL9;O43491;Q12959;Q9Y2J2;P11171}

4381 Pathogen[ P03363] interacts with 6 human partners:{Q12959;P27797;Q5VSL9;P11171;O43491;Q9Y2J2}

4382 [Cluster 399]GO:0032467+P biological\_process [name] positive regulation of cytokinesis [def] "Any process that activates or increases the frequency, rate or extent of cytokinesis." [GOC

4383 Pathogen[ Q2Q067] interacts with 1 human partners:{Q7Z7K6}

4384 Pathogen[ P0C214] interacts with 1 human partners:{Q7Z7K6}

4385 Pathogen[ P03346] interacts with 1 human partners:{Q7Z7K6}

4386 Pathogen[ Q85601] interacts with 1 human partners:{Q7Z7K6}  
4387 Pathogen[ P14079] interacts with 1 human partners:{Q7Z7K6}  
4388 Pathogen[ P03383] interacts with 1 human partners:{Q7Z7K6}  
4389 Pathogen[ P03410] interacts with 1 human partners:{Q7Z7K6}  
4390 Pathogen[ P14075] interacts with 1 human partners:{Q7Z7K6}  
4391 Pathogen[ P0C206] interacts with 1 human partners:{Q7Z7K6}  
4392 Pathogen[ P03363] interacts with 1 human partners:{Q7Z7K6}  
4393 [Cluster 400]GO:0045292+P biological\_process [name] nuclear mRNA cis splicing, via spliceosome [def] "The joining together, after removal of an intervening sequence composed of one or more introns, of two segments of the same RNA molecule via spliceosomal catalysis to produce an mRNA composed only of exon sequences that all came from the same primary transcript." [GOC  
4394 Pathogen[ Q2Q067] interacts with 2 human partners:{Q96C86;P52298}  
4395 Pathogen[ P0C214] interacts with 2 human partners:{Q96C86;P52298}  
4396 Pathogen[ P03346] interacts with 3 human partners:{Q96C86;P52298;O75554}  
4397 Pathogen[ Q85601] interacts with 2 human partners:{Q96C86;P52298}  
4398 Pathogen[ P14079] interacts with 2 human partners:{P52298;Q96C86}  
4399 Pathogen[ P03383] interacts with 2 human partners:{P52298;Q96C86}  
4400 Pathogen[ P03410] interacts with 2 human partners:{P52298;Q96C86}  
4401 Pathogen[ P14075] interacts with 2 human partners:{Q96C86;P52298}  
4402 Pathogen[ P0C206] interacts with 2 human partners:{P52298;Q96C86}  
4403 Pathogen[ P03363] interacts with 2 human partners:{P52298;Q96C86}  
4404 [Cluster 401]GO:0050870+P biological\_process [name] positive regulation of T cell activation [def] "Any process that activates or increases the frequency, rate or extent of T cell activation." [GOC  
4405 Pathogen[ Q2Q067] interacts with 4 human partners:{Q9UDY8;Q12933;O95999;O43318}  
4406 Pathogen[ P0C214] interacts with 5 human partners:{Q9UDY8;O43318;O95999;Q12933;P10809}  
4407 Pathogen[ P03346] interacts with 3 human partners:{Q9UDY8;O95999;O43318}  
4408 Pathogen[ Q85601] interacts with 4 human partners:{Q9UDY8;Q12933;O95999;O43318}  
4409 Pathogen[ P14079] interacts with 4 human partners:{Q9BXL7;O95999;Q08722;Q12933}  
4410 Pathogen[ P03383] interacts with 3 human partners:{O43318;Q12933;O95999}  
4411 Pathogen[ P03410] interacts with 5 human partners:{O43318;O95999;Q9BXL7;Q08722;Q12933}  
4412 Pathogen[ P14075] interacts with 3 human partners:{Q12933;O43318;O95999}  
4413 Pathogen[ P0C206] interacts with 4 human partners:{Q9UDY8;O95999;O43318;Q12933}  
4414 Pathogen[ P03363] interacts with 2 human partners:{Q12933;O43318}  
4415 [Cluster 402]GO:1900028+P  
4416 Pathogen[ Q2Q067] interacts with 1 human partners:{Q14678}  
4417 Pathogen[ P0C214] interacts with 1 human partners:{Q14678}  
4418 Pathogen[ P03346] interacts with 1 human partners:{Q14678}  
4419 Pathogen[ Q85601] interacts with 1 human partners:{Q14678}  
4420 Pathogen[ P14079] interacts with 1 human partners:{Q14678}  
4421 Pathogen[ P03383] interacts with 1 human partners:{Q14678}  
4422 Pathogen[ P03410] interacts with 1 human partners:{Q14678}  
4423 Pathogen[ P14075] interacts with 1 human partners:{Q14678}  
4424 Pathogen[ P0C206] interacts with 1 human partners:{Q14678}  
4425 Pathogen[ P03363] interacts with 1 human partners:{Q14678}  
4426 [Cluster 403]GO:0048666+P biological\_process [name] neuron development [def] "The process whose specific outcome is the progression of a neuron over time, from initial commitment of the cell to a specific fate, to the fully functional differentiated cell." [GOC  
4427 Pathogen[ Q2Q067] interacts with 7 human partners:{Q01196;O15350;Q14457;P11831;Q99608;P40426;Q92562}  
4428 Pathogen[ P0C214] interacts with 5 human partners:{Q14457;O15350;P11831;Q99608;Q92562}  
4429 Pathogen[ P03346] interacts with 13 human partners:{Q9NZR4;O75364;Q05925;Q9HD90;P11831;P40426;P19622;P10588;Q14457;O15350;Q92562;Q99608;Q01196}  
4430 Pathogen[ Q85601] interacts with 6 human partners:{Q14457;P11831;Q92562;Q99608;O15350;P40426}  
4431 Pathogen[ P14079] interacts with 6 human partners:{Q92562;Q06413;Q99608;O15350;P10588;Q14457}  
4432 Pathogen[ P03383] interacts with 4 human partners:{Q14457;P11831;Q99608;O15350}  
4433 Pathogen[ P03410] interacts with 6 human partners:{P40426;Q92562;P11831;Q99608;Q14457;O15350}  
4434 Pathogen[ P14075] interacts with 4 human partners:{Q14457;Q99608;P11831;O15350}  
4435 Pathogen[ P0C206] interacts with 7 human partners:{P10588;Q92562;Q14457;P40426;Q99608;P11831;O15350}  
4436 Pathogen[ P03363] interacts with 8 human partners:{P19622;Q9NZR4;Q14457;P10588;Q99608;P11831;Q05925;P40426}  
4437 [Cluster 404]GO:0042517+P biological\_process [name] positive regulation of tyrosine phosphorylation of Stat3 protein [def] "Any process that activates or increases the frequency, rate or extent of the introduction of a phosphate group to a tyrosine residue of a Stat3 protein." [GOC  
4438 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9Y2Y0}



4439 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y2Y0}

4440 Pathogen[ P03346] interacts with 1 human partners:{Q9Y2Y0}

4441 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y2Y0}

4442 Pathogen[ P14079] interacts with 1 human partners:{Q9Y2Y0}

4443 Pathogen[ P03383] interacts with 1 human partners:{Q9Y2Y0}

4444 Pathogen[ P03410] interacts with 1 human partners:{Q9Y2Y0}

4445 Pathogen[ P14075] interacts with 1 human partners:{Q9Y2Y0}

4446 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y2Y0}

4447 Pathogen[ P03363] interacts with 1 human partners:{Q9Y2Y0}

4448 [Cluster 405]GO:0060539+P biological\_process [name] diaphragm development [def] "The progression of the diaphragm over time from its initial formation to the mature structure. The diaphragm is a skeletal muscle that is responsible for contraction and expansion of the lungs." [GOC

4449 Pathogen[ Q2Q067] interacts with 2 human partners:{P80723;O60682}

4450 Pathogen[ P0C214] interacts with 1 human partners:{P80723}

4451 Pathogen[ P03346] interacts with 4 human partners:{P50219;P80723;O60682;O43680}

4452 Pathogen[ Q85601] interacts with 2 human partners:{O60682;P80723}

4453 Pathogen[ P14079] interacts with 2 human partners:{O60682;P80723}

4454 Pathogen[ P03383] interacts with 1 human partners:{P80723}

4455 Pathogen[ P03410] interacts with 2 human partners:{O60682;P80723}

4456 Pathogen[ P14075] interacts with 1 human partners:{P80723}

4457 Pathogen[ P0C206] interacts with 2 human partners:{O60682;P80723}

4458 Pathogen[ P03363] interacts with 3 human partners:{O60682;P80723;P50219}

4459 [Cluster 406]GO:0031001+P biological\_process [name] response to brefeldin A [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a brefeldin A stimulus." [GOC

4460 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8IV36}

4461 Pathogen[ P0C214] interacts with 1 human partners:{Q8IV36}

4462 Pathogen[ P03346] interacts with 1 human partners:{Q8IV36}

4463 Pathogen[ Q85601] interacts with 1 human partners:{Q8IV36}

4464 Pathogen[ P14079] interacts with 1 human partners:{Q8IV36}

4465 Pathogen[ P03383] interacts with 1 human partners:{Q8IV36}

4466 Pathogen[ P03410] interacts with 1 human partners:{Q8IV36}

4467 Pathogen[ P14075] interacts with 1 human partners:{Q8IV36}

4468 Pathogen[ P0C206] interacts with 1 human partners:{Q8IV36}

4469 Pathogen[ P03363] interacts with 1 human partners:{Q8IV36}

4470 [Cluster 407]GO:0001817+P biological\_process [name] regulation of cytokine production [def] "Any process that modulates the frequency, rate, or extent of production of a cytokine." [GOC

4471 Pathogen[ Q2Q067] interacts with 3 human partners:{P57075;Q13114;P32519}

4472 Pathogen[ P0C214] interacts with 3 human partners:{P32519;P57075;Q13114}

4473 Pathogen[ P03346] interacts with 4 human partners:{P57075;Q13114;Q9Y2Y4;P32519}

4474 Pathogen[ Q85601] interacts with 4 human partners:{P32519;Q9Y2Y4;P57075;Q13114}

4475 Pathogen[ P14079] interacts with 4 human partners:{Q9Y2Y4;P57075;P32519;Q13114}

4476 Pathogen[ P03383] interacts with 2 human partners:{P32519;Q13114}

4477 Pathogen[ P03410] interacts with 4 human partners:{P57075;P32519;Q9Y2Y4;Q13114}

4478 Pathogen[ P14075] interacts with 2 human partners:{P32519;Q13114}

4479 Pathogen[ P0C206] interacts with 4 human partners:{Q13114;P32519;P57075;Q9Y2Y4}

4480 Pathogen[ P03363] interacts with 4 human partners:{P32519;P57075;Q9Y2Y4;Q13114}

4481 [Cluster 408]GO:0006826+P biological\_process [name] iron ion transport [def] "The directed movement of iron (Fe) ions into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore." [GOC

4482 Pathogen[ Q2Q067] interacts with 2 human partners:{P02792;P48200}

4483 Pathogen[ P0C214] interacts with 3 human partners:{P02794;P48200;P02792}

4484 Pathogen[ P03346] interacts with 3 human partners:{P02792;P02794;P48200}

4485 Pathogen[ Q85601] interacts with 3 human partners:{P48200;P02792;P02794}

4486 Pathogen[ P14079] interacts with 2 human partners:{P48200;P02794}

4487 Pathogen[ P03383] interacts with 2 human partners:{P02794;P48200}

4488 Pathogen[ P03410] interacts with 3 human partners:{P02794;P48200;P02792}

4489 Pathogen[ P14075] interacts with 2 human partners:{P02794;P48200}

4490 Pathogen[ P0C206] interacts with 3 human partners:{P02794;P48200;P02792}

4491 Pathogen[ P03363] interacts with 2 human partners:{P48200;P02794}

4492 [Cluster 409]GO:0006661+P biological\_process [name] phosphatidylinositol biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of phosphatidylinositol, any glycopospholipid in which the sn-glycerol 3-phosphate residue is esterified to the 1-hydroxyl group of 1D-myo-inositol." [CHEBI

4493 Pathogen[ Q2Q067] interacts with 4 human partners:{Q8WYR1;Q92562;P27986;Q5UE93}

4494 Pathogen[ P0C214] interacts with 7 human partners:{O15056;Q92562;Q08AM6;Q8WYR1;Q5UE93;Q13615;P27986}

4495 Pathogen[ P03346] interacts with 5 human partners:{Q8WYR1;Q92562;O15056;Q5UE93;P27986}

4496 Pathogen[ Q85601] interacts with 5 human partners:{Q08AM6;Q92562;P27986;Q8WYR1;Q5UE93}

4497 Pathogen[ P14079] interacts with 5 human partners:{Q92562;Q8WYR1;Q96PE3;Q5UE93;O15327}

4498 Pathogen[ P03383] interacts with 3 human partners:{P27986;Q8WYR1;Q5UE93}  
4499 Pathogen[ P03410] interacts with 7 human  
partners:{Q92562;P27986;Q96PE3;Q5UE93;Q8WYR1;O15327;Q08AM6}  
4500 Pathogen[ P14075] interacts with 3 human partners:{Q8WYR1;Q5UE93;P27986}  
4501 Pathogen[ P0C206] interacts with 6 human  
partners:{Q92562;Q13615;P27986;Q5UE93;Q08AM6;Q8WYR1}  
4502 Pathogen[ P03363] interacts with 4 human partners:{Q8WYR1;Q5UE93;O15056;P27986}  
4503 [Cluster 410]GO:0060323+P biological\_process [name] head morphogenesis [def] "The  
process in which the anatomical structures of the head are generated and organized. The  
head is the anterior-most division of the body." [GOC  
4504 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BWW4}  
4505 Pathogen[ P0C214] interacts with 1 human partners:{Q9BWW4}  
4506 Pathogen[ P03346] interacts with 1 human partners:{Q9BWW4}  
4507 Pathogen[ Q85601] interacts with 1 human partners:{Q9BWW4}  
4508 Pathogen[ P14079] interacts with 1 human partners:{Q9BWW4}  
4509 Pathogen[ P03383] interacts with 1 human partners:{Q9BWW4}  
4510 Pathogen[ P03410] interacts with 1 human partners:{Q9BWW4}  
4511 Pathogen[ P14075] interacts with 1 human partners:{Q9BWW4}  
4512 Pathogen[ P0C206] interacts with 1 human partners:{Q9BWW4}  
4513 Pathogen[ P03363] interacts with 1 human partners:{Q9BWW4}  
4514 [Cluster 411]GO:0006975+P biological\_process [name] DNA damage induced protein  
phosphorylation [def] "The widespread phosphorylation of various molecules, triggering  
many downstream processes, that occurs in response to the detection of DNA damage." [GOC  
4515 Pathogen[ Q2Q067] interacts with 2 human partners:{O14757;O96017}  
4516 Pathogen[ P0C214] interacts with 2 human partners:{O96017;O14757}  
4517 Pathogen[ P03346] interacts with 2 human partners:{O96017;O14757}  
4518 Pathogen[ Q85601] interacts with 2 human partners:{O96017;O14757}  
4519 Pathogen[ P14079] interacts with 1 human partners:{P52564}  
4520 Pathogen[ P03383] interacts with 2 human partners:{O14757;O96017}  
4521 Pathogen[ P03410] interacts with 2 human partners:{O96017;O14757}  
4522 Pathogen[ P14075] interacts with 2 human partners:{O96017;O14757}  
4523 Pathogen[ P0C206] interacts with 1 human partners:{O96017}  
4524 Pathogen[ P03363] interacts with 2 human partners:{O96017;O14757}  
4525 [Cluster 412]GO:0007172+P biological\_process [name] signal complex assembly [def]  
"The aggregation, arrangement and bonding together of a set of components to form a  
complex capable of relaying a signal within a cell." [GOC  
4526 Pathogen[ Q2Q067] interacts with 2 human partners:{O43639;P16333}  
4527 Pathogen[ P0C214] interacts with 2 human partners:{O43639;P16333}  
4528 Pathogen[ P03346] interacts with 2 human partners:{O43639;P16333}  
4529 Pathogen[ Q85601] interacts with 2 human partners:{P16333;O43639}  
4530 Pathogen[ P14079] interacts with 3 human partners:{P16333;O43639;P49023}  
4531 Pathogen[ P03383] interacts with 1 human partners:{P16333}  
4532 Pathogen[ P03410] interacts with 2 human partners:{O43639;P16333}  
4533 Pathogen[ P14075] interacts with 1 human partners:{P16333}  
4534 Pathogen[ P0C206] interacts with 2 human partners:{P16333;O43639}  
4535 Pathogen[ P03363] interacts with 2 human partners:{O43639;P16333}  
4536 [Cluster 413]GO:0097150+P biological\_process [name] neuronal stem cell maintenance  
[def] "The process in which an organism retains a population of neuronal stem cells,  
undifferentiated cells that originate from the neuroectoderm and have the capacity both  
to perpetually self-renew without differentiating and to generate multiple types of  
lineage-restricted progenitors." [CL  
4537 Pathogen[ Q2Q067] interacts with 3 human partners:{Q86VS8;Q15154;Q9BXP5}  
4538 Pathogen[ P0C214] interacts with 3 human partners:{Q15154;Q86VS8;Q9BXP5}  
4539 Pathogen[ P03346] interacts with 3 human partners:{Q86VS8;Q15154;Q9BXP5}  
4540 Pathogen[ Q85601] interacts with 3 human partners:{Q15154;Q86VS8;Q9BXP5}  
4541 Pathogen[ P14079] interacts with 3 human partners:{Q86VS8;Q15154;Q9BXP5}  
4542 Pathogen[ P03383] interacts with 3 human partners:{Q15154;Q86VS8;Q9BXP5}  
4543 Pathogen[ P03410] interacts with 3 human partners:{Q15154;Q9BXP5;Q86VS8}  
4544 Pathogen[ P14075] interacts with 3 human partners:{Q15154;Q86VS8;Q9BXP5}  
4545 Pathogen[ P0C206] interacts with 3 human partners:{Q86VS8;Q9BXP5;Q15154}  
4546 Pathogen[ P03363] interacts with 3 human partners:{Q86VS8;Q9BXP5;Q15154}  
4547 [Cluster 414]GO:0006888+P biological\_process [name] ER to Golgi vesicle-mediated  
transport [def] "The directed movement of substances from the endoplasmic reticulum  
(ER) to the Golgi, mediated by COP II vesicles. Small COP II coated vesicles form from  
the ER and then fuse directly with the cis-Golgi. Larger structures are transported  
along microtubules to the cis-Golgi." [GOC  
4548 Pathogen[ Q2Q067] interacts with 19 human  
partners:{P55735;O43617;O43264;O75396;Q9UL33;Q15437;P53992;O95486;Q96JB2;O94855;P0DI  
81;P0DI82;Q53G59;Q13618;O15155;O95487;Q9Y296;Q9P2W9;Q15436}  
4549 Pathogen[ P0C214] interacts with 23 human  
partners:{P55735;P16157;P53992;O43264;Q13618;Q9Y296;O43617;Q15436;O95487;Q53G59;P492  
57;Q15437;P0DI81;Q9HD26;O75396;Q96JB2;Q9UL33;O15155;O95486;P0DI82;Q9P2W9;P55072;O948  
55}  
4550 Pathogen[ P03346] interacts with 31 human  
partners:{P55735;Q9P2W9;Q9Y5R8;Q96JB2;Q70SY1;P49257;Q969X5;Q13618;O43264;Q13190;O753  
96;P55072;P16157;O94855;Q15436;Q9UL33;Q15437;Q9HD26;Q9Y296;Q9Y2L5;P0DI81;O95486;P0DI

82;Q9HCU5;O95487;P49755;O15155;P53992;Q15363;O43617;Q9UBP0}

4551 Pathogen[ Q85601] interacts with 24 human partners: {P16157;O75396;Q9UL33;O95487;Q9UBP0;O15155;O43264;Q96JB2;Q9Y296;Q9P2W9;Q15436;O43617;Q15437;Q9HD26;P49257;Q9Y2L5;P0DI81;P55735;O95486;P0DI82;Q13618;Q53G59;O94855;P53992}

4552 Pathogen[ P14079] interacts with 30 human partners: {Q9Y296;Q9UL33;P49257;O95487;Q9BRL7;Q13618;O94855;P53992;P16157;O15155;Q15363;O75396;Q9HD26;Q969X5;P49755;Q9NZ43;O14653;O43264;Q9Y5R8;P55735;Q9H0V9;P0DI82;Q96JB2;P0DI81;O95486;Q53G59;Q9P2W9;O43617;Q96S06;Q9Y2L5}

4553 Pathogen[ P03383] interacts with 17 human partners: {P55735;O95487;O43264;Q9UL33;Q9HD26;Q96JB2;O95486;Q9Y296;Q15436;Q13618;Q53G59;Q15437;O94855;O43617;P0DI82;P0DI81;P53992}

4554 Pathogen[ P03410] interacts with 34 human partners: {P0DI82;Q53G59;Q9NZ43;Q9H0V9;Q9Y2L5;Q13190;Q96JB2;P49257;O94855;Q969X5;P53992;P16157;Q9UL33;Q9P2W9;Q9Y5R8;O43264;O95249;Q9HD26;P0DI81;Q13618;Q15436;O75396;Q15437;O15155;O95486;Q15363;Q96S06;Q9HCU5;Q9Y296;O14653;P55735;O43617;O95487;Q9BRL7}

4555 Pathogen[ P14075] interacts with 17 human partners: {O43617;Q96JB2;Q13618;Q53G59;Q9HD26;P53992;P55735;O95487;Q15437;P0DI81;Q15436;O94855;Q9UL33;O43264;Q9Y296;O95486;P0DI82}

4556 Pathogen[ P0C206] interacts with 32 human partners: {P0DI82;Q15437;Q9Y296;O75396;Q9UBP0;O94855;O14653;Q9Y2L5;P49755;Q96JB2;P55735;P16157;O15155;Q13618;O95486;P49257;O95487;P55072;O43617;Q969X5;Q9UL33;P53992;Q15363;Q9Y5R8;Q53G59;O43264;Q9HD26;Q9P2W9;Q96S06;P0DI81;Q9BRL7;Q15436}

4557 Pathogen[ P03363] interacts with 19 human partners: {P16157;P0DI81;Q13618;O43264;Q9UL33;Q15436;Q9Y2L5;O95486;P0DI82;Q9P2W9;Q53G59;P53992;O95487;Q9Y296;O43617;P55735;Q9HD26;O94855;Q96JB2}

4558 [Cluster 415]GO:0007132+P biological\_process [name] meiotic metaphase I [def] "Metaphase occurring as part of meiosis I. Metaphase is the part of nuclear division in which, canonically, chromosomes become aligned on the equatorial plate of the cell. Meiosis I is the first phase of meiosis, in which cells divide and homologous chromosomes are paired and segregated from each other." [GOC

4559 Pathogen[ Q2Q067] interacts with 1 human partners: {P35579}

4560 Pathogen[ P0C214] interacts with 1 human partners: {Q9NPC3}

4561 Pathogen[ P03346] interacts with 2 human partners: {P35579;Q9NPC3}

4562 Pathogen[ Q85601] interacts with 2 human partners: {P35579;Q9NPC3}

4563 Pathogen[ P14079] interacts with 2 human partners: {P35579;Q9NPC3}

4564 Pathogen[ P03383] interacts with 1 human partners: {P35579}

4565 Pathogen[ P03410] interacts with 2 human partners: {Q9NPC3;P35579}

4566 Pathogen[ P14075] interacts with 1 human partners: {P35579}

4567 Pathogen[ P0C206] interacts with 2 human partners: {Q9NPC3;P35579}

4568 Pathogen[ P03363] interacts with 2 human partners: {P35579;Q9NPC3}

4569 [Cluster 416]GO:0008616+P biological\_process [name] queuosine biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of queuosines, any of a series of nucleosides found in tRNA and having an additional pentenyl ring added via an NH group to the methyl group of 7-methylguanosine. The pentenyl ring may carry other substituents." [GOC

4570 Pathogen[ Q2Q067] interacts with 2 human partners: {Q9H974;Q9BXR0}

4571 Pathogen[ P0C214] interacts with 2 human partners: {Q9BXR0;Q9H974}

4572 Pathogen[ P03346] interacts with 2 human partners: {Q9BXR0;Q9H974}

4573 Pathogen[ Q85601] interacts with 2 human partners: {Q9BXR0;Q9H974}

4574 Pathogen[ P14079] interacts with 2 human partners: {Q9BXR0;Q9H974}

4575 Pathogen[ P03383] interacts with 2 human partners: {Q9H974;Q9BXR0}

4576 Pathogen[ P03410] interacts with 1 human partners: {Q9H974}

4577 Pathogen[ P14075] interacts with 2 human partners: {Q9H974;Q9BXR0}

4578 Pathogen[ P0C206] interacts with 2 human partners: {Q9H974;Q9BXR0}

4579 Pathogen[ P03363] interacts with 2 human partners: {Q9BXR0;Q9H974}

4580 [Cluster 417]GO:0006388+P biological\_process [name] tRNA splicing, via endonucleolytic cleavage and ligation [def] "Splicing of tRNA substrates via recognition of the folded RNA structure that brings the 5' and 3' splice sites into proximity and cleavage of the RNA at both the 3' and 5' splice sites by an endonucleolytic mechanism, followed by ligation of the exons." [GOC

4581 Pathogen[ Q2Q067] interacts with 3 human partners: {Q8NCE0;Q9BSV6;Q7Z6J9}

4582 Pathogen[ P0C214] interacts with 3 human partners: {Q9BSV6;Q8NCE0;Q7Z6J9}

4583 Pathogen[ P03346] interacts with 3 human partners: {Q7Z6J9;Q9BSV6;Q8NCE0}

4584 Pathogen[ Q85601] interacts with 3 human partners: {Q9BSV6;Q7Z6J9;Q8NCE0}

4585 Pathogen[ P14079] interacts with 4 human partners: {Q86TN4;Q9BSV6;Q8NCE0;Q7Z6J9}

4586 Pathogen[ P03383] interacts with 3 human partners: {Q7Z6J9;Q8NCE0;Q9BSV6}

4587 Pathogen[ P03410] interacts with 4 human partners: {Q7Z6J9;Q9BSV6;Q86TN4;Q8NCE0}

4588 Pathogen[ P14075] interacts with 3 human partners: {Q9BSV6;Q7Z6J9;Q8NCE0}

4589 Pathogen[ P0C206] interacts with 3 human partners: {Q9BSV6;Q7Z6J9;Q8NCE0}

4590 Pathogen[ P03363] interacts with 3 human partners: {Q9BSV6;Q7Z6J9;Q8NCE0}

4591 [Cluster 418]GO:0021984+P biological\_process [name] adenohypophysis development [def] "The progression of the adenohypophysis over time from its initial formation until its mature state. The adenohypophysis is the anterior part of the pituitary. It secretes a variety of hormones and its function is regulated by the hypothalamus." [GO\_REF

4592 Pathogen[ Q2Q067] interacts with 2 human partners: {Q9H4S2;O75360}

4593 Pathogen[ POC214] interacts with 1 human partners:{075360}

4594 Pathogen[ P03346] interacts with 2 human partners:{Q9H4S2;075360}

4595 Pathogen[ Q85601] interacts with 2 human partners:{075360;Q9H4S2}

4596 Pathogen[ P14079] interacts with 1 human partners:{075360}

4597 Pathogen[ P03383] interacts with 1 human partners:{075360}

4598 Pathogen[ P03410] interacts with 1 human partners:{075360}

4599 Pathogen[ P14075] interacts with 1 human partners:{075360}

4600 Pathogen[ POC206] interacts with 2 human partners:{075360;Q9H4S2}

4601 Pathogen[ P03363] interacts with 2 human partners:{075360;Q9H4S2}

4602 [Cluster 419]GO:0001837+P biological\_process [name] epithelial to mesenchymal transition [def] "A transition where an epithelial cell loses apical/basolateral polarity, severs intercellular adhesive junctions, degrades basement membrane components and becomes a migratory mesenchymal cell." [GOC

4603 Pathogen[ Q2Q067] interacts with 3 human partners:{P26447;Q06330;O95644}

4604 Pathogen[ POC214] interacts with 3 human partners:{Q06330;P26447;O95644}

4605 Pathogen[ P03346] interacts with 6 human partners:{Q06330;Q13263;O95644;O95863;P26447;Q99729}

4606 Pathogen[ Q85601] interacts with 4 human partners:{P26447;Q06330;O95644;Q13263}

4607 Pathogen[ P14079] interacts with 5 human partners:{O95644;Q06330;P26447;Q8N5W9;P28360}

4608 Pathogen[ P03383] interacts with 2 human partners:{Q06330;O95644}

4609 Pathogen[ P03410] interacts with 4 human partners:{P26447;Q06330;O95644;Q8N5W9}

4610 Pathogen[ P14075] interacts with 3 human partners:{Q8N5W9;Q06330;O95644}

4611 Pathogen[ POC206] interacts with 5 human partners:{P26447;Q06330;Q13263;Q8N5W9;O95644}

4612 Pathogen[ P03363] interacts with 4 human partners:{P26447;Q06330;Q99729;O95644}

4613 [Cluster 420]GO:0051444+P biological\_process [name] negative regulation of ubiquitin-protein ligase activity [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of ubiquitin ligase activity, the catalysis of the reaction

4614 Pathogen[ Q2Q067] interacts with 2 human partners:{Q8N726;O15105}

4615 Pathogen[ POC214] interacts with 2 human partners:{Q8N726;O15105}

4616 Pathogen[ P03346] interacts with 2 human partners:{O15105;Q8N726}

4617 Pathogen[ Q85601] interacts with 2 human partners:{Q8N726;O15105}

4618 Pathogen[ P14079] interacts with 3 human partners:{Q8N726;Q9UL15;O15105}

4619 Pathogen[ P03383] interacts with 2 human partners:{O15105;Q8N726}

4620 Pathogen[ P03410] interacts with 3 human partners:{Q8N726;Q9UL15;O15105}

4621 Pathogen[ P14075] interacts with 2 human partners:{O15105;Q8N726}

4622 Pathogen[ POC206] interacts with 2 human partners:{Q8N726;O15105}

4623 Pathogen[ P03363] interacts with 2 human partners:{O15105;Q8N726}

4624 [Cluster 421]GO:0045082+P biological\_process [name] positive regulation of interleukin-10 biosynthetic process [def] "Any process that activates or increases the frequency, rate or extent of the chemical reactions and pathways resulting in the formation of interleukin-10." [GOC

4625 Pathogen[ Q2Q067] interacts with 2 human partners:{P20749;Q15306}

4626 Pathogen[ POC214] interacts with 2 human partners:{P20749;Q15306}

4627 Pathogen[ P03346] interacts with 2 human partners:{Q15306;P20749}

4628 Pathogen[ Q85601] interacts with 2 human partners:{Q15306;P20749}

4629 Pathogen[ P14079] interacts with 2 human partners:{Q15306;P20749}

4630 Pathogen[ P03383] interacts with 2 human partners:{P20749;Q15306}

4631 Pathogen[ P03410] interacts with 2 human partners:{P20749;Q15306}

4632 Pathogen[ P14075] interacts with 2 human partners:{Q15306;P20749}

4633 Pathogen[ POC206] interacts with 2 human partners:{Q15306;P20749}

4634 Pathogen[ P03363] interacts with 2 human partners:{Q15306;P20749}

4635 [Cluster 422]GO:0007049+P biological\_process [name] cell cycle [def] "The progression of biochemical and morphological phases and events that occur in a cell during successive cell replication or nuclear replication events. Canonically, the cell cycle comprises the replication and segregation of genetic material followed by the division of the cell, but in endocycles or syncytial cells nuclear replication or nuclear division may not be followed by cell division." [GOC

4636 Pathogen[ Q2Q067] interacts with 381 human partners:{P04156;P49454;Q92900;Q12798;Q9Y6X3;O43463;Q9UPP1;Q9NNW5;Q96EE3;P30281;O60232;P83876;Q8IXJ6;O75351;Q9BTV5;Q9NYP9;Q99865;P18754;Q7LBR1;P50995;Q14008;P42773;Q9H4X1;O75461;Q9BW66;O75909;A0AVK6;Q8IZD2;P24385;Q7Z4H7;Q9Y266;Q96NB3;O95273;Q15398;P63172;Q7Z2Z1;Q16589;Q9NQW6;Q9NPB6;Q8IY18;Q8WW12;Q6PJP8;Q14980;O00267;P06400;Q7Z5K2;Q9UJX3;Q9UJX5;O43663;P41220;Q01094;Q08999;Q8WWL7;Q13352;Q9BYG5;Q6PGQ7;Q7Z460;Q9UNS1;Q7Z6K1;O95997;Q86XL3;P62826;Q99816;Q99741;Q6P1J9;P19474;Q15554;Q96R06;Q9H1H9;P61024;Q15326;P49427;P53990;Q99708;Q8N9N5;Q13111;Q8N137;O00762;O43255;Q8N0Z3;O94927;Q6P1K2;Q9HBM1;O75794;Q5UIP0;Q9H211;Q96T88;O75935;Q7Z7A1;Q5EE01;P54274;O00743;Q8NDF8;Q8WWK9;Q8WY P5;A8MVW5;O75896;P42695;Q9BPZ2;P50548;Q8NHV4;P30279;P62140;Q6P1M3;Q6NXT1;Q13625;Q14511;Q96AV8;Q5TKA1;Q5FBB7;O95347;Q13257;Q86WB0;Q8N2Z9;A8MT69;Q9UBU7;Q9UJT9;Q9UPV0;Q03188;O14757;Q9UNH5;Q9NVX0;Q9UNL4;Q66LE6;Q9NXR1;Q6MZZ7;O15350;P35638;Q8TDY2;Q9NPI1;Q9C099;Q53HL2;Q8IX12;O43684;Q8NBT2;P51610;Q9H981;Q14457;P63279;D6RGH6;Q9P258;Q9NYG5;Q8NFH4;Q8NEU8;P30304;Q9H1A4;A6NKF1;O75400;O60563;Q9NVI1;Q8N726;Q9BSD3;Q9028;P22674;P14635;Q8IXM3;Q99871;P58340;Q68DK2;Q86XI2;Q08050;Q9NQS7;Q96IF1;Q13112;Q9UJX2;Q99549;Q9Y448;P24522;O43264;Q15003;Q8WUM4;Q29RF7;Q7Z7K6;P30307;Q14186;Q6NT89;Q9UM13;O43768;O432

36;Q96BT3;Q08J23;Q6PGN9;P51948;Q92831;Q07666;Q9BZD4;O60934;P61289;Q96DE5;Q9BXY8;O434  
82;O96017;P51959;Q5MJ68;Q14978;Q5MJ70;O76095;Q86T82;O00716;Q12834;P41002;P36873;P692  
08;Q15021;Q9BVC3;P50748;Q96EP1;P0CW71;O75496;P24864;O95067;Q9HD42;P50750;Q8TAE8;Q9BT  
25;Q96Q89;Q8NI51;Q9H6D7;Q7Z3K3;P62136;O75419;Q99618;Q96MT8;Q16254;Q6K0P9;P50613;A6NC  
L1;Q9UN37;P35869;Q9NTI5;Q9Y6B2;Q92733;Q9BRX2;P78396;P56211;Q9H410;Q8IYD1;Q5TB80;Q8TC  
Y9;Q8NFH3;Q9U749;Q8NHZ8;Q9ULW0;P38936;P20248;Q02241;O60216;O96020;O00139;Q9H4H8;Q53E  
Z4;A1L190;Q9UJ98;O75122;O76064;Q5TZA2;Q8IXZ4;Q9Y3E7;Q8IX90;P28749;Q8NG31;O75943;Q9UM  
11;Q9UJX4;Q8N371;Q93008;Q9UPY8;Q13620;Q6UVJ0;Q9Y6D9;Q13526;Q9BVW5;Q9UKT4;Q6NUQ1;Q96B  
D8;Q9UI95;Q9H900;P33552;O95271;Q8NA72;O75410;P41208;Q96IY1;Q9NR09;Q3YBR2;Q14209;Q9BR  
P1;Q96IK1;P42771;Q8IZT6;Q9ULG1;Q6PIF2;Q12824;Q6DKK2;Q9NS23;P25205;O75154;P46013;Q86Y  
I8;Q14676;P49336;Q96PU4;Q9H2L5;O15182;O60583;Q8IXT1;Q9BXS6;Q69YH5;Q96MF7;Q9P287;Q146  
83;Q8WVM7;Q49MG5;P21675;P30305;O14519;Q15007;P24941;Q9NUQ3;P49321;Q9UJX6;O95229;Q141  
88;O14777;Q9UKG1;Q9NVM9;Q562F6;P60006;B2CW77;P11802;Q9Y421;Q9BYG4;Q9BPX3;P46527;Q8TD  
N4;Q8NCD3;Q96CS2;Q8ND76;Q8N3U4;P51808;Q8NDN9;P18583;Q9ULC4;Q13042;P61586;Q9Y222;Q9H5  
I1;Q15691;Q9H081;Q8WVK7;Q9H3M7;Q9Y250;Q9NVV9;Q8TAP9;Q9HAW4;P05783;Q9BS18;Q9BTE3;Q9BX  
26;Q96HI0;Q14207;Q66K89;Q99459;P49918;Q96FF9;Q13227;O15392;Q96EA4;Q68CZ6;Q9P0W2;Q6P0  
N0;Q9BRK4;P42772;Q9H2G4;Q9BV73;Q9BXW9;O60477;P51946;Q9UKL3;Q00534;O15297}

4637

Pathogen[ P0C214] interacts with 382 human

partners: {Q14457;Q9UJX6;O43768;Q6NUQ1;Q9H081;Q9BPX3;Q8IY18;P53990;O43684;Q8NI51;D6RG  
H0;Q7Z3K3;Q8N371;Q15007;Q8ND76;O94927;P20248;P51946;Q8TAP9;A6NCL1;Q13257;Q86XI2;P412  
20;O75935;Q16254;Q9H4X1;Q16763;Q95111;Q8IX12;Q96HI0;Q8WW12;P30307;P19474;Q6P0N0;Q29R  
F7;A0AVK6;P35869;P24522;Q14207;P51610;Q96BT3;Q13620;O75896;P62140;Q14008;Q5UIP0;P057  
83;O75461;P23919;Q9BS18;Q12824;O00762;Q9H2L5;O75909;Q53HL2;O75351;O43264;Q8NDF8;Q089  
99;A1L190;P41002;Q02241;Q9NS23;Q15003;P21675;Q9BRK4;Q99865;Q9BPZ2;Q6DKK2;Q13625;Q7Z4  
H7;Q6K0P9;Q15554;P50750;Q92900;O00267;P50613;Q9H3M7;Q13112;P49427;P51959;Q9UJP4;O153  
50;Q96EA4;O75496;Q96R06;Q8NA72;Q9BXS6;Q6NT89;Q5EE01;Q9HD42;P11802;Q13111;Q9C099;Q135  
26;Q8WYP5;O94921;P50748;A8MVW5;Q9BRX2;P50548;Q9UJX5;Q8NHV4;P61024;Q7Z7A1;Q9UJ98;P615  
86;Q6P1M3;Q8N9N5;P42695;Q99708;Q86Y37;Q9BVW5;Q8IXM3;Q86WB0;P46527;Q96PU4;O95229;Q9UN  
L4;Q66LE6;Q96EE3;P63279;Q96MT8;O60232;Q8TDY2;Q9ULG1;P14635;O00716;Q8NBT2;Q8N726;P692  
08;O60477;P24385;P51808;O00139;Q9NVM9;Q14676;Q9UBU7;Q15691;Q92733;Q9UJX2;Q9HAW4;Q5MJ  
68;Q6P1K2;O43463;O75794;Q9UKG1;Q562F6;Q9Y266;Q69YH5;Q9UI95;P38936;Q96FF9;O95347;Q96T  
88;P25205;Q09028;Q93008;Q9NUQ3;P50749;Q9Y250;Q96CS2;Q9BTE3;Q14980;Q9BW66;Q9UPV0;Q8TD  
N4;Q8N2Z9;Q6PGN9;Q6PJP8;Q03188;Q9Y421;Q01094;Q7LBR1;Q8NCD3;O75122;O43482;Q14566;Q005  
34;Q9NPB6;Q96Q89;Q12798;P18583;Q14186;P56211;P21127;Q9H1A4;Q00536;Q9UKL3;P51948;Q9NV  
V9;O96017;Q14978;Q96BD8;Q8IXT1;Q07666;P49336;Q9P0W2;Q9HBM1;Q99459;Q99549;P49918;Q9P2  
58;P78396;Q1UNY9;Q15398;Q6P1J9;Q8TCY9;Q08J23;Q9BT25;Q9Y6B2;Q6MZF7;P30281;Q96MF7;Q8NE  
U8;Q8NHZ8;Q86XL3;Q12834;P0CW71;O60583;Q9ULW0;Q13352;P83876;O43663;Q8TAE8;Q53EZ4;O950  
67;Q9NVI1;Q9UNS1;P62136;P24941;P49321;O14519;Q99618;Q9BVC3;Q8NFH3;P42771;P22674;Q9BR  
P1;P30305;Q9UNH5;Q9H211;Q8NDN9;Q7Z7K6;Q8IYD1;Q86YI8;Q9H2G4;Q99871;Q13227;Q14511;Q3YB  
R2;Q8IXZ4;Q14207;O75943;Q9BSD3;P41208;Q9BNB3;Q9Y3E7;Q9H410;P62826;Q99410;P62826;Q9BX  
26;Q99816;O15392;Q9H6D7;Q9UPY8;Q7Z5K2;O15297;O75410;Q9BXW9;Q8IX90;P28749;O95273;Q146  
83;Q92831;O75419;Q8N3U4;P58340;Q8WVM7;Q9NPI1;Q8NG31;P24864;P30279;Q9UJX4;P04156;P631  
72;Q7Z460;Q9BV73;Q9BYG5;P36873;Q9H900;A6NKF1;Q5FBB7;Q8IXJ6;O60925;Q9BTV5;P60006;Q9Y6  
X3;Q9NQS7;Q9NR09;Q9UJX3;Q68CZ6;Q8N0Z3;Q8WVK7;P46013;Q8IYB7;O95997;O00743;Q5MJ70;Q68D  
K2;Q96SL7;Q5TKA1;Q9NNW5;Q9UN37;Q9P287;Q8NFH4;Q9UM11;P40692;O14757;Q9NQR1;Q9NXR1;O952  
71;Q96IY1;Q7Z6K1;P49454;Q15326;Q9NVX0;O43255;P18754;Q9NTI5;O43236;Q8IZT6;Q9Y448;O760  
64;P30304;P33552;P50995;Q5TB80;Q9ULC4;Q9UJT9;Q7L5Y9;Q9NYG5;Q14209;O60216;Q6UVJ0;Q6PG  
Q7;Q66K89;Q9UM13;O75400;Q9BZD4;Q14188;Q9UPP1;P06400;Q9BXY8;Q5XUX0;Q7Z2Z1;Q9UKT4;Q9Y6  
D9;P42772;Q9BYG4;Q15021;P35638;Q5TZA2;Q49MG5;P54274;O75154;Q96EP1;Q99741;Q9H981;Q8WV  
K7;Q8IZD2;P36404;O96020;Q96DE5;Q13042;Q14777;Q16589;Q96AV8;Q9Y222;Q8N137;Q8WUM4}

4638

Pathogen[ P03346] interacts with 440 human

partners: {Q08J23;B2CW77;Q9NVM9;Q7Z3K3;Q66LE6;P62136;Q9Y6D9;P30281;Q8N2Z9;Q8NI51;Q7Z7  
A1;Q8ND76;Q9BT25;Q5FBB7;Q9BXS6;Q9H6D7;O00743;Q16589;P78396;Q8NFH4;Q9NRZ9;Q00536;Q9H4  
X1;Q6NT89;Q8IX12;O76064;Q9Y657;O95229;Q14207;P55273;Q9NVI1;P24385;Q7Z2Z1;Q9P2N7;Q96M  
F7;P30279;Q5XG87;P05783;Q9NQW6;O60017;P60006;Q14511;Q96RT1;O15392;O43684;Q08999;Q9UM  
11;Q96EE3;Q8N3U4;Q96FF9;Q9UNL4;Q693B1;Q5MJ70;Q9BSD3;Q9P0W2;Q8TCY9;Q7Z5K2;Q8TAE8;Q29R  
F7;Q99871;P35638;Q7Z4H7;P83876;Q9BS18;Q93008;Q15554;Q9UJT9;Q9NQR1;Q9BRP1;Q9BX26;P211  
27;P49427;P06400;Q9HD42;Q8WYJ6;A8MT69;Q14188;O75410;O60563;O75935;Q96R06;Q8IXM3;O001  
39;P51808;Q8N137;O75400;Q69YH5;Q15691;O96020;Q5EE01;P54274;P49336;Q15007;Q8WYP5;A8MV  
W5;Q99708;Q9ULG1;Q8WW12;Q8NHV4;P24941;P51610;Q6P1M3;P30304;P50548;P42772;Q6MZF7;Q8NA  
72;Q86WB0;Q9H2G4;Q9UNS1;Q9NQY0;Q9NPI1;O43255;O14757;O95347;Q14141;O43264;Q9UBU7;Q9NX  
R1;Q99816;P24864;Q53HL2;O60232;Q9UM13;Q9H1H9;Q8IXJ6;Q8TDY2;P18583;Q9NPB6;Q96IF1;Q9NX  
01;Q08050;Q14209;P69208;P18754;Q7Z6K1;Q14457;Q12824;P63279;Q96AV8;O43482;Q96IY1;Q9NY  
G5;P85340;Q6P0N0;D6RGH6;Q9P258;Q92831;Q96IK1;O15350;P49918;Q9Y5K6;Q13526;Q16254;Q86X  
I2;P61024;Q8TDM4;Q9BXY8;Q8NFH3;P41002;P42771;O95067;Q9UI95;O00409;P56211;P49321;Q010  
94;Q86T82;Q66K89;O43463;O75896;O95997;Q8N0Z3;P62826;Q8TEW0;Q12834;P30305;Q8IYB7;Q8NC  
D3;Q13620;Q14980;P11802;Q69YQ0;O43768;Q13098;O75943;Q9BRK4;Q9Y222;Q9UJX6;Q14566;Q155  
55;Q5TB80;Q9Y421;P25205;Q9Y266;P41208;Q8NFT6;O60583;Q14186;O14777;Q07666;Q5T686;Q5MJ  
68;Q6NUQ1;Q9UKL3;Q9HAW4;Q14676;Q9NVX0;Q96DE5;Q14978;Q9ULW0;Q9BPZ2;Q9UJX6;Q562F6;Q496  
M5;Q13227;Q96EA4;Q15398;Q16667;A6NKF1;Q8NEU8;Q9H2L5;Q9BPX3;P14635;Q8IZU3;O60477;Q9UJ  
98;O60519;Q13042;Q15021;Q9UJX5;Q92599;Q9BYG5;P0CW71;Q14683;Q15019;Q9NUQ3;Q8WWL7;P368  
73;Q09028;O00762;Q14008;P51587;Q9UJX2;Q8TD19;P51946;O60447;Q68CZ6;Q9Y250;P50750;Q3YB  
R2;O15297;P33552;P20248;A6NCL1;P33992;P36404;Q9BTV5;Q53EZ4;Q9NQS7;Q9NTI5;Q96Q89;Q131  
11;O75604;Q9H981;O95273;Q9Y6X3;Q9UKT4;Q8IUQ4;Q9BYG4;Q562F6;Q8IYD1;Q6PGN9;Q13625;Q7Z7  
K6;P50749;Q8N9N5;Q9H081;Q86Y37;Q9UPP1;Q8NBT2;Q9HBM1;P63172;Q9BW66;Q9UJX3;P98177;Q8NH  
Z8;Q5UIP0;Q6PIF2;Q9H4H8;P61289;P0CG13;O00267;P50995;Q9H410;P42773;P42695;O75122;Q9H1

A4;Q99459;Q68DK2;Q02241;Q92733;Q9C099;Q8TAP9;Q8WVM7;Q8NDF8;P33991;Q03188;O75909;Q8IX90;P28749;Q8N371;O60934;Q9UJX4;P50748;P36405;P21675;Q15326;Q9BXW9;Q96PY6;Q96NB3;Q96CS2;Q5TKA1;O95271;O75461;Q9UKG1;O60925;P19474;Q5TZA2;Q9NR09;Q99549;A1L190;P04156;O75351;Q12798;Q9Y6B2;Q9Y448;Q8WVK9;Q9BVC3;Q6PJP8;Q96HI0;Q8N0S2;Q9P2J3;Q86YI8;Q8IZT6;Q8NDN9;Q00534;Q96PU4;P46013;Q8IXT1;Q7Z460;Q9UHD8;P62140;P51959;Q7LBR1;O94921;P38936;Q9P287;Q01582;Q8IXZ4;Q8NG31;Q9H8V3;O94927;Q49MG5;Q86XL3;P41220;O75154;O76095;P35869;Q8WV17;Q9H5I1;Q9BTV7;Q9UPY8;Q13112;Q8N726;Q9UJXP4;Q8IY18;O43663;O75419;Q92900;P46527;Q9NYP9;P62952;Q15003;Q99865;A0AVK6;Q9BRX2;Q99741;Q9BVW5;O14519;Q9UBZ4;Q6NXT1;Q9ULC4;Q9H211;P84090;Q6P1K2;Q6K0P9;Q6ZU15;Q9NVV9;O60216;Q8WUM4;Q96BD8;Q6PGQ7;Q9H3M7;Q9NS23;P51948;O14965;Q9BZD4;Q99618;P22674;O00716;Q6UVJ0;Q8IZD2;Q5XUX0;Q96BT3;Q9BTE3;Q6P1J9;Q96T88;Q13352;Q9H0E7;Q6DKK2;Q8WVK7;Q13257;Q5UNH5;P30307;P49454;Q96EP1;Q9UN37;O75496;P24522;Q9H900;Q9UBP0;Q9NNW5;Q9UPV0;Q96MT8;O75794;P61586;Q9BV73;P53990}

4639 Pathogen[ Q85601] interacts with 408 human partners: {Q53EZ4;Q9UJX2;Q3YBR2;Q14457;Q9UBZ4;Q9NVM9;Q8NBT2;P51946;Q9H5I1;Q99816;P30281;P22674;Q8NI51;Q9Y250;P49454;Q14978;O75496;Q6PGN9;Q9Y5T5;Q8N137;Q00536;Q9H4X1;O95229;Q9UKL3;Q96DE5;Q9UJX6;Q16763;P55273;Q9BTE3;P24385;Q7Z2Z1;Q7Z7K6;Q9H0E7;O75154;Q6UVJ0;Q02241;Q8NPF4;Q9NQW6;O96017;Q07666;Q8NPF3;Q03188;O60563;Q6NUQ1;P51808;Q9P0W2;P36405;Q9H900;Q15398;Q8N371;Q08999;O95347;Q14008;O75909;Q8WVK9;Q96EE3;Q96RT1;P50750;Q9Y5K6;Q9BXW9;Q9H6D7;Q9BT25;O15182;Q99871;Q9NQS7;Q8IY18;Q9BYG5;P61289;P50548;Q15554;Q6P1J9;P41220;Q9UI95;Q9UBP0;Q9NQR1;Q9H081;P49427;P06400;Q92733;Q96PY6;Q12798;Q9P258;Q96IK1;P50995;Q96BT3;Q9BS18;O75935;Q7Z4H7;Q13112;Q9UKT4;Q8NEU8;O75400;Q9NVX0;Q8NHZ8;P49336;Q15007;Q8WYP5;A8MVW5;Q99708;Q8NHV4;Q8ND76;Q6P1M3;P60006;O60583;Q8NFT6;P42772;Q49MG5;Q9H1A4;P62826;Q86WB0;Q7L5Y9;Q96PU4;O75794;Q16589;O43264;P42695;Q14188;Q53HL2;Q9UNL4;Q9BXS6;O60232;P24522;Q9H1H9;Q8TDY2;Q8IX12;Q9C099;Q8NG31;Q6NXT1;Q9UBU7;O15392;D6RGH6;P30304;Q92831;O14519;Q86Y37;Q9NS23;Q7LBR1;Q99549;Q9BW66;Q66LE6;P51948;P61024;Q96EA4;Q8TDN4;Q9ULW0;P51959;P41002;P50749;O60216;Q8WVM7;Q9BX26;Q8IZT6;P63172;P56211;P49321;Q9NTI5;A6NKF1;Q29RF7;O43463;Q93008;Q96R06;Q9UJP4;P63279;P51610;Q12834;Q8IYB7;Q8NCD3;Q8IZX4;O95273;Q9NNW5;P11802;Q13257;O43663;Q8TAP9;O14757;Q7Z5K2;O75943;O75122;Q9UNH5;Q14566;O96020;P30305;O14965;Q9Y266;Q9BVC3;Q9UPV0;Q7Z3K3;Q14186;Q9Y6B2;Q9BPX3;Q86XL3;Q96Q89;Q13352;Q9NVV9;O75461;Q15555;Q9H981;P30307;O75351;Q5XG87;Q9BXY8;O43768;O76064;Q9Y448;Q13098;Q8N726;Q9BP22;P05783;P25205;Q9H2L5;Q9NVI1;Q6PIF2;Q9H4H8;P14635;Q8IXJ6;Q9HAW4;Q9UJ98;Q13042;Q9UJX5;Q9BV73;P58340;P62136;Q9NYP9;Q13526;Q9NQC7;Q14683;Q6PGQ7;Q08T23;Q9BZD4;Q99618;P36873;Q9UM13;P53990;Q9BRK4;Q6DKK2;Q15691;O60447;Q96MT8;Q96BD8;Q9Y6D9;Q9UJT9;O15297;A8MT69;P33552;Q9NYG5;P30279;Q5UIP0;Q9Y222;P20248;Q99459;Q96T88;Q7Z7A1;Q5TB80;P78396;Q8IYD1;Q94921;Q13625;P42771;Q8N9N5;O00762;Q9BVA0;Q86YI8;Q9UPP1;Q61254;Q9NPNB6;Q8N2Z9;Q9UJX3;Q9ULG1;P61586;Q14209;P50613;Q6PIF2;Q9H4H8;O94927;Q5MJ68;O00267;Q69YQ0;Q9H410;P42773;Q09028;Q68DK2;Q14207;Q8NDF8;Q8IX90;P28749;Q8N3U4;Q86T82;Q14980;Q96IF1;Q9NPI1;Q9UJX4;Q9P2J3;Q9UM11;Q6NT89;P50748;Q15326;Q8WVK7;O76095;Q96IY1;P83876;P49918;Q8WYJ6;Q8IXM3;Q9BRP1;Q96CS2;Q5TKA1;Q9UKG1;Q9BTV5;P18583;Q7Z6K1;P18754;Q5TZA2;P21675;Q9NR09;Q9NX01;P04156;Q8050;Q8WUM4;P35869;O00743;Q6PJP8;P21127;Q7Z460;Q96HI0;Q8NDN9;O15350;P46013;Q66K89;Q9H2G4;P62140;P38936;Q86XI2;P33992;Q9P287;Q13620;Q00534;Q8N0Z3;Q13111;O95067;Q96EP1;P19474;Q96NB3;P40692;Q496M5;Q9NXR1;O95271;Q9UPY8;O43255;O75419;Q92900;A0AVK6;Q9BRX2;Q12824;Q99741;Q14511;Q6P0N0;Q9ULC4;Q9H211;Q15003;Q96FF9;P69208;Q9UN37;O43482;Q6P1K2;Q6K0P9;P24941;Q9Y3E7;Q9HD42;Q9H3M7;Q9Y6X3;Q14777;Q8TAE8;Q14676;O00716;O43684;Q8IZD2;O00139;Q13227;O75410;Q9HBM1;P51587;Q96AV8;Q15021;A6NCL1;Q68CZ6;Q69YH5;Q01094;Q5FBB7;P51955;O95997;P54274;Q9NUQ3;Q6MZP7;Q8NAV8;O43236;Q9BVW5;P46527;Q96MF7;A1L190;P35638;Q8WWL7;P24864;Q5MJ70;Q9BYG4;O60934;P41208;Q9UNS1}

4640 Pathogen[ P14079] interacts with 406 human partners: {P04083;Q9NY59;Q5XUX0;Q8IXM3;Q15691;Q6NUQ1;Q14980;Q6P0N0;O14519;P51959;Q9BPZ2;P54274;Q9NQW6;Q8NA72;Q99459;Q96IY1;Q9NPI1;Q8IX12;Q03188;Q9BRX2;Q14004;Q15007;Q5TZA2;Q96DY7;Q6PGQ7;Q9UPY8;Q5MJ70;O60925;Q9ULG1;Q5EE01;Q96KR4;Q9BTV5;P63279;Q8IZX4;Q9UKG1;Q6UVJ0;P35869;P63172;O75419;O43482;O75400;Q68DK2;Q9ULC4;Q96MF7;P30307;Q14566;Q9NS23;Q9UKT4;O43268;Q9BT87;D6RGH6;Q9BYG5;Q7Z460;Q8NEU8;P51808;Q8IX90;Q96BT3;Q14186;P49336;P51946;O15297;Q9HBM1;Q9H4H8;A6NCL1;Q96R06;Q96HI0;P78396;O75896;O95271;P50995;Q8NDN9;P24864;Q7Z6K1;Q8TDY2;P36873;Q16254;O95229;Q8NBT2;Q13620;Q9UJX3;P04156;O76095;P40692;Q14207;Q9UBZ4;Q99871;Q13098;Q99549;Q96FF9;Q9NVV9;Q69YH5;Q9H1A4;Q7Z3K3;Q02241;Q9UJX5;Q9NVX0;Q8WVI7;B2CW77;Q96NB3;Q9BZD4;Q9H211;Q5XG87;Q9UNL4;O15392;P83876;Q7LBR1;Q9Y250;P62136;P51587;O60216;P69208;Q9BTV7;Q14209;Q8N726;Q9Y266;Q9HD42;O95067;Q9NVM9;Q6K0P9;Q5MJ68;Q9BV73;Q8NG31;A8MVW5;Q9BSK0;Q8ND76;Q9ULW0;Q13111;Q9BXW9;Q13111;Q7L5Y9;P41220;Q9H900;Q13625;O60934;Q9BSD3;Q86XL3;P49918;Q15003;Q9BTE3;Q9Y448;O75461;P56211;Q69YQ0;Q9NUQ3;P62952;P61289;P30304;P60006;P51610;O15350;Q9BXS6;Q6N021;Q5FBB7;Q6PIF2;Q9H410;Q9H5I1;P55273;Q99618;P0CW71;O60477;Q9NR09;Q8IYD1;Q9NTI5;Q9Y421;Q96RT1;Q9NVI1;Q15078;Q9Y6G5;Q8TEW0;P33552;Q9BRP1;Q96IK1;Q99741;Q8IXT1;Q8N3U4;P50613;Q9H981;Q99865;Q9UKL3;P33640;Q8IYB7;Q8TDN4;Q9P0W2;Q9HAW4;Q99661;Q8N9N5;Q6NXT1;P54826;O43663;Q9WYU6;P23919;Q8WW12;Q6MZP7;P14635;Q8NHZ8;P51955;O75943;Q9UJ98;Q8NHV4;P19474;Q8WYP5;O00716;Q96IF1;O95347;Q9BW66;Q9UM11;Q8IZU3;Q96Q89;Q9UPP1;Q8WUM4;Q99708;Q9H2G4;Q9BXY8;Q07666;P38936;Q9UM13;Q12798;Q13042;O00139;Q15555;Q9BYG4;Q96DE5;Q66K89;P41002;Q8N2Z9;Q13257;Q96EA4;Q9NQR1;Q56298;Q9BVC3;Q8WVK7;Q66LE6;P62140;Q9H1H9;P24522;Q9H6D7;Q8NPF3;P61586;Q96EE3;O75909;Q9H8V3;Q8WWL7;Q08J23;P50749;A6NKF1;Q9P258;O43903;O43264;Q9NX01;Q49MG5;A8MT69;Q13227;P84090;P35638;Q9NYP9;P21127;Q8N0Z3;Q9C099;Q86YI8;Q6DKK2;Q6NT89;P05783;Q8TAE8;O95997;Q9UJX6;Q86WB0;Q9UN37;P33992;Q6PGN9;Q9BX26;Q8IXJ6;Q5TB80;Q53HL2;Q15554;Q8WVK9;Q86Y91;Q8TAP9;P50548;P41208;Q9Y5K6;P20248;Q8NPF4;Q9NQS7;Q14676;P49427;Q9BPX3;Q8NCD3;O75410;Q3YBR2;Q9NNW5;Q86XI2;Q92900;O60583;Q8IY18;Q9Y3E7;Q96FC9;P46527;Q9Y6X3;Q96AV8;Q9UQE7;Q8N371;Q9H3M7;Q13164;Q7Z4H7;P49454;Q8N137;O75154;Q16589;Q9H2L5;Q9BT25;P49321;O00762;O15182;H0YL14;P30305;O75351;Q9UJP4;Q68CZ6;P42773;Q12824;P62826;Q9UJT9;A0AV

K6;O95273;Q6PJP8;Q29RF7;Q9NPB6;Q9NXR1;Q9Y6B2;P50748;O96020;Q13526;O75794;Q86Y37;Q6P1J9;Q15021;Q09028;Q99816;Q14457;Q7Z5K2;Q5UIP0;Q96BD8;Q9BVA0;O75122;Q14683;O00267;O14965;Q5TKA1;Q9UNSL;Q7Z2Z1;Q9BRK4;P18583;Q01094;Q13352;O75935;Q9NQC7;P42695;Q14188;Q9P287;O60232;P25205;Q9UJX4;P53990;O75496;Q15326;P18754;O14777;Q9BS18;O00743;Q8NFT6;Q8IZT6;O43684;Q9Y657;Q9UNH5;Q9UBU7;Q6P1M3;Q53EZ4;Q8NI51;Q7Z7A1;P22674;O43236;Q8TCY9;O94927;P49917;Q9Y222;Q7Z7K6;P21675;Q6P1K2;P58340;Q14978;P0CG13;Q9UPV0;Q08999;P50750;Q9H081;P42771;Q14008;Q92733;Q9BVW5;Q5T686;A1L190;P46013;Q15398;P61024;P51948;Q96CS2}

4641 Pathogen[ P03383] interacts with 357 human partners: {Q7Z7A1;Q14683;Q9BRK4;Q9UNSL;Q14457;Q96EE3;O14519;Q9NYV4;Q13257;P41002;P30307;Q8NHZ8;Q9NQS7;Q09028;Q03188;Q8NI51;P62140;Q14978;P49454;P50995;P19474;Q92831;Q8N0Z3;Q8IXT1;O75794;O14757;Q8N2Z9;Q8NFH4;Q9H4X1;Q7Z460;Q6UVJ0;P61024;Q6P1J9;Q9BVW5;Q86XI2;O00716;Q9UKL3;Q14209;Q96BD8;Q9BPZ2;Q96DE5;Q68DK2;Q7Z6K1;Q02241;Q8NBT2;Q8N3U4;Q12824;Q14008;P51808;Q9H900;Q15691;P83876;P51948;Q9NYG5;O75896;Q08999;Q5UIP0;Q8WWK9;Q9UJX6;Q9BSK0;Q8TD19;Q01094;P04156;Q9NVX0;P58340;Q9H981;O43264;Q5FBB7;P41220;Q15554;Q9UI95;P53990;P49427;Q9P258;O43236;Q9BXS6;P63172;Q9BXW9;P22674;O43463;O75410;Q9Y3E7;Q7Z4H7;Q9UJ98;Q9NUQ3;Q5EE01;Q8WWL7;Q8NEU8;P25205;Q8WYP5;A8MVW5;P41208;P46013;Q8NHV4;Q9BTE3;Q6P1M3;P30304;Q9BV73;Q6MZP7;Q9NYP9;Q9NVM9;Q86WB0;Q96PU4;P24522;Q92733;D6RGH6;P35638;O00762;O75461;Q6PJP8;O95347;Q12798;Q00536;Q8NDF8;Q99816;Q9UNL4;Q5TKA1;O60232;P24385;Q9Y6X3;Q8TDY2;Q9UKT4;Q9BRP1;Q9BRX2;Q8IZX4;P69208;Q9H1A4;O75400;Q99459;P49321;O15297;Q7Z7K6;P05783;Q13352;Q00534;Q96EA4;O60216;Q96MF7;Q13625;Q13042;O00267;Q9H2L5;P14635;Q96MT8;P11802;P06400;Q66K89;Q8WWL2;Q96BT3;P78396;Q96R06;P21127;A6NKF1;Q9H1H9;P36873;P62826;Q99618;P30279;P33552;P62136;Q12834;Q6PGN9;Q99871;Q5TZA2;Q15326;Q15003;P51610;Q99549;P49336;Q5TB80;Q14186;Q96CS2;P60006;Q53HL2;O94927;Q9NVI1;O95229;Q9NVV9;P18583;O60563;Q7Z2Z1;Q13111;Q7LBR1;P50613;Q9BXY8;Q8N9N5;P42772;Q9Y6B2;Q9UM13;Q96H10;P61586;P51946;O43768;P46527;Q9HAW4;P51959;O43684;P24941;Q9BYG5;P18754;P0CW71;Q6PGQ7;Q9UNH5;Q14511;Q9BZD4;Q9UM11;Q7Z3K3;Q16254;Q5MJ68;Q08J23;Q6DKK2;O75909;Q68CZ6;Q9BS18;P50750;Q9NPB6;O95067;Q8WVK7;O15350;Q96Q89;A8MT69;O96020;Q9BT25;Q562F6;Q8IYD1;O75935;Q07666;Q86YI8;Q8TDN4;O43255;Q8ND76;Q9HEM1;O94921;P50749;Q9P0W2;Q9H4H8;Q9Y266;Q8IXM3;Q9HD42;Q6K0P9;Q9H410;Q29RF7;Q8IX12;P42771;Q14207;O14965;Q8TCY9;Q9H081;Q8IX90;P28749;Q15007;Q96FF9;Q6IY1;Q14980;Q99708;O75419;Q9UJX4;Q14188;Q9UPV0;Q9H2G4;Q8NCD3;Q8NG31;P49918;Q96PY6;P21675;Q96NB3;A1L190;O60925;Q6P1K2;Q9UJX5;Q9NQR1;Q9H3M7;Q99997;Q99865;Q9Y448;Q9BW66;Q8N137;Q8WUM4;Q9Y222;Q9H6D7;Q9NPI1;Q13227;P62952;P50548;Q6NUQ1;Q8NA72;Q8N371;Q9ULW0;Q9P287;P61289;Q9C099;O14777;Q9BSD3;Q6P0N0;Q8TAE8;Q96EP1;O43663;Q49MG5;Q9UJX2;P56211;O76095;Q14676;Q3YBR2;O95271;P24864;Q9NTI5;P30281;O95273;O00743;Q96AV8;Q9Y421;P35869;Q9BVC3;Q9ULC4;Q9NNW5;Q9UJX3;P84090;O60583;Q92900;Q9H5I1;Q9UPP1;Q13112;Q9NQR1;Q9H211;Q53EZ4;Q8NDN9;Q9UPY8;Q5XUX0;B2CW77;O75154;P63279;Q96YH5;P20248;O43482;A0AVK6;Q9BPX3;Q15021;O60477;Q13526;P54274;Q8NFH3;Q6NT89;O75496;Q99741;Q7Z5K2;Q8TAP9;Q8N726;O96017;Q9Y6D9;Q13620;Q5MJ70;Q9BX26;Q9Y250;P50748;Q8WVM7;Q9BYG4}

4642 Pathogen[ P03410] interacts with 419 human partners: {Q03188;Q9UKT4;Q9BS18;Q9Y6G9;P83876;Q92831;Q8IX90;Q7Z460;O60583;Q86Y91;P49321;Q96DY7;O15392;Q29RF7;Q8IXJ6;P42771;Q9UPP1;P40692;Q9H981;Q96AV8;Q13227;Q8IZX4;Q8WVI7;Q96Q89;O75154;P46527;Q16589;Q9H4X1;O75461;P25205;P51610;Q86WB0;O75794;Q9UI95;P51808;Q99708;P35638;Q96RT1;Q9NX01;Q8IX12;O43684;Q9H6D7;Q9NVI1;P30279;O43903;P50995;O75943;Q9H1A4;Q96NB3;O00139;Q9NVV9;Q9BSD3;Q00534;P42772;Q99618;Q9NXR1;Q15554;Q15398;Q8TEW8;Q66K89;Q92900;Q8N726;Q8NG31;P49427;O00267;Q53HL2;Q9BTV7;Q99549;Q8NFH4;O75351;Q9H1H9;P54274;O75419;O96020;P41220;P46013;P21675;Q9BXW9;Q13620;Q9UQE7;Q7Z7A1;Q96BT3;Q13098;Q9NVM9;Q6NXT1;Q13526;Q6UVJ0;Q7Z5K2;Q9UJX4;Q9NYG5;P24522;Q8N9N5;Q8WWL7;Q8WVK9;Q14008;P51946;Q14207;Q9BVW5;Q16254;Q9UM13;Q8TCY9;D6RGH6;Q9BTE3;Q9P287;Q8NFT6;Q14978;Q9UNL4;P62136;Q9P0W2;Q9BSK0;P42695;P36405;O15182;Q14457;Q9ULG1;P63172;O95273;Q8TDY2;P55273;P50748;Q9NYP9;Q8NHZ8;Q9NS23;Q6N021;P22674;Q96H10;Q95067;P84090;P85299;Q69YQ0;Q9HAW4;Q9H3M7;Q15003;Q6P1M3;Q562F6;Q12798;Q9BPZ2;Q08999;Q9H211;Q8N137;Q5TKA1;P50749;P06400;Q9BXY8;Q6DKK2;Q99865;Q9UNH5;Q96R06;O95997;Q6NUQ1;Q6ZU15;Q9BXS6;Q5MJ68;Q5XUX0;Q9NQW6;Q8TAP9;Q6P0N0;Q8NCD3;Q14188;O60216;P50613;Q68CZ6;Q96CS2;P41002;Q07666;Q5EE01;Q9BTV5;P53990;P33992;O43264;P23919;Q96MF7;Q8IZT6;Q7Z7K6;P49454;Q9NQY0;Q9Y5K6;O95347;P78396;O14965;Q96EA4;P58340;Q96IF1;P50750;Q9P2J3;Q9ULC4;Q9NQR1;Q9H3M7;Q99816;Q8NHV4;O00716;Q8N0Z3;P24385;Q9Y3E7;Q9UBZ4;Q96IY1;H0YL14;Q96KR4;Q8NDN9;Q9Y448;Q14980;O15297;Q09028;P33552;P14635;Q9BX26;Q99459;Q15555;Q9UM11;Q14511;O75400;P38936;Q15691;Q13042;P0CG13;O43236;Q9Y6B2;P62826;P62140;P51959;P61586;Q6PJP8;P30304;P24941;Q9NQR1;P0CW71;B2CW77;Q9HD42;Q9BRX2;Q5TZA2;Q9UN37;O95271;P51587;O43482;P11802;Q6P1K2;Q13111;Q8IZU3;Q9NVX0;Q9UBU7;Q9H5I1;Q9NTI5;P62952;Q13112;O75909;Q15326;Q14683;O60232;Q3YBR2;Q14186;Q8IXT1;Q96DE5;Q9BZD4;O60447;Q8WVK7;Q9BVC3;Q69YH5;Q6K0P9;P04156;Q8WYJ6;Q9NUQ3;Q86Y37;O96017;P18583;P36873;Q9HEM1;Q5XG87;A8MVW5;Q6PGQ7;Q96EE3;O14757;Q9UJ98;Q6P1J9;Q8IXM3;O75410;Q9UJX5;O75935;Q9UPY8;Q8N3U4;Q9UH84;Q53EZ4;Q7Z2Z1;Q8IYB7;P49336;O94927;P20248;Q5T686;Q9Y222;O43768;P30281;Q9UKL3;Q12834;Q8NBT2;Q8WWL2;Q8NA72;P51948;Q8NI51;P54826;P28749;Q5FBB7;Q8IYD1;Q08J23;Q9UJX3;Q9ULW0;P69208;Q9UNSL;O00762;O75496;Q01094;Q5TB80;Q8IY18;O60925;P63279;P61024;Q6PIF2;Q8TEW0;A8MT69;Q9NPB6;O15350;Q7Z3K3;Q9UPV0;Q8WVM7;O14519;Q8NEU8;Q6MZP7;Q9Y250;P50548;Q96FC9;Q9H900;Q9Y266;Q9Y657;O95229;Q9H081;Q5MJ70;Q14676;Q9UJP4;Q96FF9;P49918;O76095;Q9C099;O43463;P60006;Q66LE6;P18754;Q5UIP0;Q9H8V3;Q96GN9;A6NKF1;Q99871;Q96BD8;Q14209;P30305;A1L190;Q9UJT9;Q9BPX3;Q8N371;Q86XI2;Q9H4H8;O60477;Q12824;Q14566;Q9H2L5;Q13625;Q9H2G4;Q9P258;P41208;Q8WUM4;Q68DK2;Q8TDN4;P24864;P56211;Q8WYP5;O75122;Q8NFH3;Q9BRP1;Q7L5Y9;P42773;P05783;Q9BV73;Q8ND76;Q7LBR1;Q9BT25;Q9Y421;O75896;P30307;Q92733;Q86XL3;O00743;Q9UJX6;Q96EP1;Q49MG5;Q9UKG1;Q7Z4H7;O60934;Q6NT89;A6NCL1;Q13352;A0AVK6;Q9NPI1;Q9BYG4;Q9BVA0;O14777;Q9NNW5;Q9BYG5;Q02241;Q15021;O43663;Q8N2Z9;P61289;Q8N0S2;Q9BW66;Q15007;Q13257;Q9NQS7;Q96IK1;Q99741;Q86YI8}

4643 Pathogen[ P14075] interacts with 365 human



partners: {P49321;Q14457;Q96MT8;A8MT69;P49336;Q99871;O15297;Q8NI51;Q14511;Q9BS18;P358  
69;Q9BRP1;Q9H4X1;P60006;P62952;Q9Y266;Q9H211;Q8N9N5;Q92900;Q14207;P50548;Q13042;Q7Z2  
Z1;Q9NVI1;Q8IXT1;P21675;Q9H1H9;O95067;P24941;Q99865;P05783;Q14683;P53990;Q08999;Q8N3  
71;Q9Y6D9;Q02241;O43663;Q9NPI1;Q5MJ70;P11802;Q9H081;Q8NDF8;Q9BPZ2;P61024;Q92831;Q7Z4  
H7;Q562F6;O75410;O43236;Q15554;Q49MG5;O76095;Q9UKT4;P49427;Q9NQS7;Q9Y6X3;Q8WVM7;P519  
59;Q07666;P14635;Q9H2L5;Q9UM11;Q96R06;P51808;Q8WVK7;P30281;P30279;Q5EE01;Q8WU  
M4;O60563;Q96DY7;Q86XI2;Q8WYP5;A8MVW5;P50613;Q8WW12;Q6NUQ1;Q8NHV4;Q7Z460;Q9BX26;Q6P1  
M3;Q9UPP1;Q9BRX2;P51610;O75419;Q86WB0;Q96PU4;Q96IY1;Q08050;Q13257;Q68CZ6;Q00534;A1L1  
90;P42771;P41220;P04156;Q8NDN9;Q9BYG4;Q13620;B2CW77;Q9BXS6;O60232;Q9NQR1;P35638;Q8TD  
Y2;P50750;O60583;Q7L5Y9;O95997;Q9Y250;O43684;Q6UVJ0;Q5TZA2;Q12798;P62140;O00716;Q9BW  
66;Q8IX12;Q13111;Q8NEU8;Q96BD8;Q9UI95;P63279;Q96020;Q5MJ68;P63172;O75794;Q9H2G4;Q142  
09;O14777;Q9UJX2;Q6K0P9;Q9BT25;Q96FF9;P36873;O95229;O95347;O75400;Q9BVW5;P46527;O432  
55;Q69YH5;Q9Y3E7;P62136;Q3YBR2;P78396;Q9UJX6;Q99459;Q8N2Z9;O00743;Q9NUQ3;Q8NHZ8;Q9BT  
E3;Q9UPV0;P69208;Q9BVC3;Q5TKA1;Q6P1J9;Q14186;Q09028;Q9ULW0;Q96HI0;Q9UKL3;Q9UJ98;P509  
95;Q68DK2;Q9HAW4;P54274;Q9H5I1;Q9UPY8;Q96DE5;O00762;Q15326;Q96EA4;Q9BXY8;O00139;P499  
18;Q7Z6K1;O43768;Q9P258;P22674;O75935;Q9UJX5;O14519;Q9Y6B2;Q14676;Q96017;O15350;Q162  
54;Q13526;P0CW71;P25205;Q7Z5K2;O14965;Q6MZP7;Q5T686;Q8WWL7;Q15007;Q15691;Q9Y421;Q9BV  
73;Q9NYP9;Q5TB80;Q96EE3;Q8N137;Q9C099;P20248;P19474;P62826;Q96BT3;Q96CS2;Q8IYD1;P211  
27;Q86YI8;Q9H3M7;Q13227;Q5FBB7;Q99549;Q01094;P61586;H0YL14;Q9H4H8;P30304;P06400;Q136  
25;Q9H410;Q96AV8;P41208;Q12824;P51946;O60477;Q8IX90;P28749;O75896;Q66K89;Q7Z7K6;A6NK  
F1;Q8NFH3;Q9UJX4;Q9Y222;Q9UJX4;Q9H900;Q53EZ4;Q9NVM9;Q00267;Q8TDN4;Q53HL2;Q29RF7;P24522;Q6PGN9;P427  
72;Q8NCD3;Q8IXM3;Q9NVX0;O60925;Q9UNSL;P50748;O43463;P18754;Q9NR09;Q8ND76;Q96PY6;Q9HD  
42;Q8WVK9;Q9BYG5;Q99741;O94927;O95273;P83876;Q9H981;Q9HBM1;Q5UIP0;Q9H1A4;P56211;Q6P1  
K2;P24385;O75154;Q9NPN6;Q9P287;Q15003;Q99816;Q13352;Q14008;Q99618;P41002;Q96MF7;Q08J  
23;Q6NT89;O43264;Q8TAP9;O75496;O95271;Q13112;Q9UM13;Q14980;O94921;Q9UQ88;O75909;Q031  
88;P61289;Q7Z3K3;Q8NG31;Q9UJX3;O43482;Q9NVM9;Q00267;Q8TDN4;Q9NSD3;Q9NNW5;Q9NTI5;Q141  
88;Q9NYG5;P49454;Q6P0N0;Q6PJP8;D6RGH6;Q99708;Q9NYV4;Q96IK1;Q9UNH5;Q9ULC4;Q9BPX3;P460  
13;Q9H6D7;Q96Q89;P30307;P84090;Q7Z7A1;Q8NFH4;P54826;Q9Y448;O75461;Q9NVV9;O60216;Q8TC  
Y9;Q92733;Q6PGQ7;Q9BXW9;Q8NBT2;Q9BZD4;P18583;A0AVK6;Q8TAE8;O14757;Q5XUX0;Q12834;Q149  
78;Q9P0W2;Q8N726;P50749;Q15021;Q96NB3;Q6DKD2;P33552;Q8NA72;Q8N0Z3;Q96EP1;Q9UN37;P519  
48;Q9BSK0;Q8N3U4;Q8IXZ4;P58340;Q24864;Q8TD19}

4644

Pathogen[ P0C206] interacts with 453 human

partners: {O95271;Q9UNSL;P61289;Q9NQC7;Q13112;Q16763;Q96EE3;Q9HBM1;Q6NXT1;Q8TAE8;Q9UJ  
T9;O15182;Q68DK2;Q8N371;Q9P2N7;O60216;Q8N137;Q9BPX3;Q08J23;Q14188;Q8WYP5;Q8WWL7;P583  
40;Q5XG87;Q9BTE3;O95273;Q9UKG1;P83876;Q9UN37;Q86Y37;P49336;P69208;Q496M5;Q6K0P9;Q9BV  
A0;Q99865;Q8N9N5;Q96RT1;P61024;Q8IXM3;Q7LBR1;O75794;Q9C099;O75496;Q14008;Q9NUQ3;Q96Q  
89;Q9H4X1;Q8TDN4;Q8WW12;Q5UIP0;Q9UJX3;Q9H900;P24522;Q9NPI1;O00743;Q9UBP0;Q96KR4;Q5MJ  
68;O43255;Q99708;Q8N726;Q13526;P50750;Q8WVI7;Q15019;P30307;Q9H981;Q9Y3E7;O96017;P041  
56;Q9BXY8;P18583;Q9Y5T5;Q8NEU8;Q9Y6D9;P35869;Q8NA72;Q6NUQ1;Q93008;Q9ULW0;P18754;Q96H  
I0;O75419;Q2733;A1L190;Q5T686;P51955;Q86XL3;Q75154;P25205;Q96EP1;P51587;A6NCL1;Q96A  
V8;Q9UJX5;Q5TZA2;Q96IF1;Q9NQW6;P56211;Q9UJX2;Q9BTV5;Q15554;Q13625;P50995;Q9UKL3;P302  
79;Q13111;Q6PJP8;O60934;O75604;Q66LE6;Q15691;O60477;Q00536;O95997;P40692;Q9H081;O147  
77;Q8IUQ4;O43463;P46013;Q9UPP1;Q8IYD1;Q7Z5K2;P42695;Q8NI51;Q9Y448;Q99618;Q9BT25;Q9H2  
L5;P50749;Q29RF7;Q9BYG5;Q9BPZ2;Q6PGQ7;Q9NYP9;Q14457;Q15021;Q96PY6;Q8NFT6;Q9BZD4;P202  
48;Q8IXT1;Q9UVJ0;P42771;Q9UPV0;Q14186;Q8IZT6;Q9H410;Q9UBZ4;P42772;P30305;Q9UBZ4;P628  
26;Q99816;Q9P287;Q6PGN9;D6RGH6;Q12824;P49454;P49321;O75896;Q16589;Q07666;Q8TD19;O007  
16;Q9H1H9;Q5TKA1;Q99741;Q13257;Q15326;Q9BX26;Q8IZU3;Q92831;Q9H0E7;O96020;P49427;Q9NN  
W5;Q14141;Q02241;Q9Y6X3;Q13620;Q8IXZ4;Q16254;Q9BW66;O43236;Q8IX90;P28749;O75943;Q9NV  
I1;P61586;Q9NVX0;Q9Y421;Q69YQ0;Q08999;O14519;Q96FF9;Q9UJP4;Q9BS18;Q15003;P30291;O751  
22;Q86Y91;O75410;Q9UKT4;Q5EE01;P54274;P42773;Q8TEW0;Q8TCY9;Q6P1K2;Q9H1A4;Q6DKZ6;Q6ZU  
15;Q8NBT2;O60447;A8MVW5;Q14209;Q96BD8;A6NKF1;Q8WYJ6;Q96NB3;P49917;O60925;Q9NYG5;Q9UN  
H5;Q9UJX4;Q86XI2;Q15007;Q693B1;Q9P0W2;Q7L5Y9;Q9UPY8;Q9UQE7;P50613;Q9NR09;O95347;Q9BV  
W5;Q9BRP1;Q9ULG1;Q9UBU7;P51959;Q8NCD3;P51808;P51610;Q14683;Q14676;Q96T88;Q96IY1;Q9P2  
J3;P53990;Q9NQR1;Q9H211;Q9Y6G9;Q01094;Q7Z7K6;Q96BT3;Q6MZP7;Q7Z3K3;A0AVK6;Q8NDF8;P057  
83;P55273;P46527;O43768;Q96CS2;Q8TDY2;O43663;Q13352;Q5FBB7;Q7Z4H7;Q99916;Q9NPN6;P389  
36;Q9UM11;Q86T82;O94927;Q9Y222;Q53HL2;O00762;O43482;Q96MF7;Q9H5I1;Q9H8V3;Q49MG5;Q9BV  
73;O00267;Q8NHV4;Q9H2G4;O15392;Q6P0N0;O00139;Q9NTI5;Q9Y657;P0CW71;Q8N0S2;Q8IXJ6;Q9NX  
01;Q9P258;Q9NQY0;P62140;Q9UJX6;Q99459;O75909;P36405;Q9Y6B2;Q8NFH4;Q8WUM4;Q08050;P335  
52;Q13098;Q8IX12;P30304;Q86YI8;Q13422;Q562F6;Q6NT89;Q9Y5K6;O75400;Q7Z7A1;Q69YH5;B2CW  
77;P78396;Q9H6D7;Q92900;Q9H3M7;Q99871;P41208;O15350;Q7Z2Z1;Q8N3U4;Q9NRZ9;Q86WB0;P0CG  
13;Q8N0Z3;O95067;Q9NXR1;Q96EA4;Q9HD42;Q09028;P21127;Q96DE5;Q8ND76;Q8NDN9;Q8TAP9;Q9UL  
C4;Q8N2Z9;Q5XUX0;Q16181;Q15555;Q9BTV7;Q12798;P84090;P14635;P60006;H0YL14;Q9BXS6;O436  
84;O60583;Q7Z6K1;Q9BSK0;Q9BXW9;O14965;Q14980;P41220;Q9UM13;Q96MT8;Q7Z460;Q9NVM9;O753  
51;Q9NS23;P54826;Q9NQS7;O75935;Q66K89;Q8NFH3;O15297;P63172;Q3YBR2;P36873;Q13042;Q8IY  
B7;Q9UK53;P50548;O76064;Q8IY18;Q99549;P50748;O60563;Q15398;Q96IK1;Q9HAW4;Q13227;Q9BW  
19;O75461;O43264;P24864;P24941;Q8WVK9;P62952;Q68CZ6;Q14566;Q8WVM7;Q9NTJ3;Q8NG31;Q9BR  
X2;Q9Y266;P41002;Q5TB80;P11802;O60232;Q6P1J9;Q9Y250;Q9BVC3;P22674;Q6P1M3;O94921;Q145  
11;Q12834;Q8WVK7;Q5MJ70;Q9UI95;Q9BYG4;P35638;Q99640;Q14207;Q96PU4;Q8NHZ8;Q9BSD3;A8MT  
69;P33992;Q03188;P62136;Q9UNL4;Q9NVV9;Q8IZD2;Q99986;P21675;O76095;P51946;Q14978;Q9H4  
H8;P51948;P24385;O95229;P19474;Q6PIF2;Q00534;P30281;P06400;Q96DY7;P49918}

4645

Pathogen[ P03363] interacts with 396 human

partners: {Q8IXZ4;Q9BSD3;Q9UJX2;Q3YBR2;Q13112;P05783;O75410;Q9NYG5;P49918;Q96EA4;Q149  
78;Q9NVI1;P62952;A6NKF1;Q69YH5;O75461;Q9BZD4;Q9UJ98;Q96IK1;Q13042;P49454;Q96EP1;Q6P0  
N0;Q96IY1;Q96RT1;Q8WWL7;Q07666;Q6P1K2;P62136;Q9NYP9;Q7Z7K6;Q9HAW4;P69208;Q7Z7A1;Q165  
89;Q9Y6D9;Q9UNH5;Q08J23;Q9H4X1;Q86WB0;Q9H081;Q9H981;Q9ULG1;P36873;P24864;Q8NFH4;Q9BX  
W9;O00762;Q15021;P49321;O60563;P21127;Q92900;O95229;Q13227;Q96DE5;Q9BRK4;Q15554;Q9NV



V9;Q9H5I1;Q96MT8;Q96BD8;Q9BTE3;Q7Z2Z1;Q9UJT9;P62140;P33552;Q8NHV4;O75794;P58340;P30279;Q8IXM3;Q90Q28;Q92831;Q8WYP5;Q9NQW6;O60232;Q14457;P20248;Q8WWL2;P25205;Q8WWK9;O95347;Q8NFH3;Q9P2N7;Q86XI2;Q14980;Q13111;Q9Y266;O75604;Q5TKA1;Q6MZP7;Q6NXT1;Q15691;Q9NX01;O75909;Q9ULW0;Q8IYD1;P51946;O43264;Q8NBT2;Q13625;O60447;Q8N9N5;Q15398;Q7Z6K1;Q6NUQ1;Q16667;Q6NT89;Q8ND76;Q9H3M7;Q9Y657;Q16254;B2CW77;Q8NHZ8;Q9H6D7;Q5MJ68;Q02241;Q9NPB6;O00743;Q90X29;Q9P258;Q9UJX3;Q9BT25;Q66K89;Q9C099;Q53HL2;Q8WVK7;P61289;Q9BVC3;P50548;Q9BXS6;Q9H410;O00267;P24941;P50748;Q9H4156;Q9UJX5;Q6PGQ7;Q9BPZ2;P41208;Q49MG5;Q13526;Q68DK2;P49427;P06400;Q9BYG4;Q8NI51;O00409;Q8WYJ6;Q8IX90;P28749;P41002;P35869;Q9NVA2;Q9UJX6;P50995;Q5FBB7;Q96IF1;Q66LE6;Q9UM11;P33992;Q9UNL4;Q9BS18;Q9UJX4;O96017;O75351;Q9H900;P30304;Q8NEU8;O75400;Q5TZA2;Q15326;Q8NDN9;Q00534;Q5EE01;Q6PGN9;A8MVW5;Q99549;Q99708;Q9BRP1;Q08050;Q9UPY8;Q9UN37;Q8IYM1;O60925;Q6P1M3;Q96R06;O60583;Q53EZ4;P60006;Q68CZ6;O43684;O95067;O96020;Q12798;P18583;Q92599;Q6PIF2;O94927;Q6DKK2;P42772;Q8WUM4;Q9NR09;P63172;Q6K0P9;Q9Y250;Q6P1J9;Q8IYB7;Q08999;P0CG13;Q9BW66;Q9H2G4;Q14511;P54274;Q9BVW5;Q01094;Q9NQS7;Q8TAE8;Q8NDF8;Q99741;P61024;Q9NVX0;P19474;Q86T82;P78396;Q9NPI1;Q9H211;Q8WVM7;O60477;Q5MJ70;Q9UNS1;O75935;Q9UKL3;Q9Y3E7;Q9HBM1;Q5UIP0;A0AVK6;Q7LBR1;A6NCL1;Q13620;Q7Z460;Q9UKT4;O43768;Q8TCY9;O95271;Q9BPX3;Q9H1A4;Q9UHD8;P24522;P49336;Q9UI95;P35638;Q8TDY2;Q03188;Q8NG31;Q13257;Q14209;Q8NCD3;Q8N0Z3;P63279;Q96CS2;Q7Z3K3;Q99871;P83876;Q6PJP8;P41220;Q9BYG5;P51808;Q29RF7;Q99618;O76095;O75154;P0CW71;Q9NS23;D6RGH6;Q9UPV0;P24385;P21675;Q9P2J3;P42695;O75496;Q96BT3;Q9UM13;Q8TDM4;Q96HI0;Q8N726;O15182;P51959;P50749;Q9UJP4;P50750;Q14186;Q8IX12;Q9NVM9;O43463;Q14188;Q92733;P56211;Q9NQY0;Q96T88;Q9H2L5;Q9NTI5;Q96AV8;Q9BRX2;Q6ZU15;Q99816;Q9NUQ3;O14519;Q8N3U4;Q9ULC4;O14777;Q9NQR1;Q96Q89;O95997;Q9Y6B2;Q12834;Q14008;Q14207;Q9Y448;O43482;O95273;Q96FF9;Q8NA72;P42773;Q9H1H9;Q9Y6X3;O15297;P11802;P46013;O43663;Q562F6;P22674;Q14676;O00716;Q9NXR1;Q96PU4;Q14141;O00139;O43255;Q5XUX0;P18754;Q99719;P30307;Q7Z5K2;P30281;O75943;Q9P0W2;P62826;Q9P287;Q8IY18;Q99459;Q13352;Q7Z4H7;Q99865;Q5TB80;Q96NB3;Q96MF7;Q00536;Q8IZU3;Q93008;Q86XL3;Q8IZT6;Q14683;Q9Y5K6;O43236;Q15007;Q9UKG1;Q9BTV5;Q15003;Q12824;P42771;Q9BV73;Q9BSK0;Q693B1;O75419;Q9BX26;Q9NNW5;Q9Y222;A8MT69;Q15555;Q9HD42;A1L190;Q9Y421;P51610;Q13098;Q8TAP9;O60216;Q6UVJ0;Q69YQ0;O14757;Q8IXT1;Q8N137;P53990;Q9BXY8}

4646 [Cluster 423]GO:0042989+P biological\_process [name] sequestering of actin monomers [def] "The selective interaction of actin monomers with specific molecules that inhibit their polymerization by preventing their access to other monomers." [GOC

4647 Pathogen[ Q2Q067] interacts with 5 human partners:{P63313;O14604;P0CG35;P62328;P0CG34}

4648 Pathogen[ P0C214] interacts with 5 human partners:{P63313;P0CG35;P0CG34;O14604;P62328}

4649 Pathogen[ P03346] interacts with 5 human partners:{P0CG34;O14604;P63313;P62328;P0CG35}

4650 Pathogen[ Q85601] interacts with 5 human partners:{P0CG34;P62328;P0CG35;O14604;P63313}

4651 Pathogen[ P14079] interacts with 5 human partners:{P0CG34;O14604;P62328;P0CG35;P63313}

4652 Pathogen[ P03383] interacts with 5 human partners:{P62328;P63313;P0CG35;O14604;P0CG34}

4653 Pathogen[ P03410] interacts with 5 human partners:{P62328;P0CG35;P0CG34;O14604;P63313}

4654 Pathogen[ P14075] interacts with 5 human partners:{P0CG34;P62328;P63313;O14604;P0CG35}

4655 Pathogen[ P0C206] interacts with 5 human partners:{O14604;P0CG35;P0CG34;P62328;P63313}

4656 Pathogen[ P03363] interacts with 5 human partners:{P0CG35;P62328;P63313;P0CG34;O14604}

4657 [Cluster 424]GO:0032933+P biological\_process [name] SREBP-mediated signaling pathway [def] "A series of molecular signals from the endoplasmic reticulum to the nucleus generated as a consequence of altered levels of one or more lipids, and resulting in the activation of transcription by SREBP." [GOC

4658 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BY44}

4659 Pathogen[ P0C214] interacts with 1 human partners:{Q9BY44}

4660 Pathogen[ P03346] interacts with 1 human partners:{Q9BY44}

4661 Pathogen[ Q85601] interacts with 1 human partners:{Q9BY44}

4662 Pathogen[ P14079] interacts with 3 human partners:{Q9Y5U4;Q9BY44;O15503}

4663 Pathogen[ P03383] interacts with 1 human partners:{Q9BY44}

4664 Pathogen[ P03410] interacts with 3 human partners:{Q9Y5U4;Q9BY44;O15503}

4665 Pathogen[ P14075] interacts with 1 human partners:{Q9BY44}

4666 Pathogen[ P0C206] interacts with 1 human partners:{Q9BY44}

4667 Pathogen[ P03363] interacts with 1 human partners:{Q9BY44}

4668 [Cluster 425]GO:0031145+P biological\_process [name] anaphase-promoting complex-dependent proteasomal ubiquitin-dependent protein catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of a protein or peptide by hydrolysis of its peptide bonds, initiated by the covalent attachment of ubiquitin, with ubiquitin-protein ligation catalyzed by the anaphase-promoting complex, and mediated by the proteasome." [PMID

4669 Pathogen[ Q2Q067] interacts with 66 human partners:{Q99460;O75832;P48556;P40306;P55036;O00231;O00233;Q9UJX3;Q9UJX5;P51665;O95997;P28072;O00762;A5LHX3;Q13257;Q13200;P25787;Q06323;O43684;Q9NYG5;Q9H1A4;P51965;P28065;O14818;P14635;Q9UJX2;Q9Y297;Q9UM13;Q14997;P60900;Q9UL46;P61289;Q12834;P51668;P280

62;Q9UNM6;P25788;Q13616;Q92530;P25786;Q8NHZ8;Q16401;O00232;Q13309;Q9UM11;Q9UJX4;P28074;P25789;Q9UKT4;P0CG47;P20618;P0C48;P28070;P28066;Q99436;P24941;Q8TAA3;Q9UJX6;P62987;O43242;P30260;P49721;P49720;Q13042;P63208;P62979}

4670 Pathogen[ P0C214] interacts with 69 human partners: {Q9UJX6;Q14997;P51665;O43684;Q13257;P25789;Q16763;P55036;P28062;A5LHX3;O00762;P28065;Q13309;O14818;O43242;Q9UJX5;P63208;P48556;P40306;P14635;Q13200;Q9UJX2;Q9Y297;O00232;P51965;Q99460;P28066;O75832;Q9H1A4;P49720;P28074;P0CG48;Q9UL46;Q8NHZ8;Q12834;P25788;P24941;Q9UNM6;O00231;Q06323;P25786;Q13616;P28072;Q8TAA3;P62987;Q99436;Q9UJX4;P0CG47;P25787;Q9UJX3;Q95997;P35998;P60900;O00233;Q9UM11;P51668;P62979;P30260;Q92530;Q9NYG5;Q15008;Q9UM13;P28070;Q9UKT4;P20618;P49721;Q16401;P17980;Q13042}

4671 Pathogen[ P03346] interacts with 67 human partners: {P25787;P28070;P25789;P55036;O43684;Q99460;Q9UM11;Q13616;Q9UL46;P62987;P28072;P25788;P28074;P49721;O14818;Q99436;P24941;P0CG48;Q16401;A5LHX3;Q9UM13;P28062;Q9NYG5;P20618;O00232;P51668;Q95997;Q12834;O75832;O00233;Q9UJX6;P14635;Q13042;P51965;Q13309;Q9UJX5;P49720;P28065;O00762;Q9UJX2;P60900;P25786;O00231;Q9UKT4;Q9UJX3;Q8NHZ8;P63208;P61289;Q9H1A4;P62979;P28066;Q9UNM6;Q9UJX4;Q8TAA3;P0CG47;Q14997;Q13200;P48556;P51665;Q06323;P30260;Q9Y297;Q92530;O14965;O43242;P40306;Q13257}

4672 Pathogen[ Q85601] interacts with 63 human partners: {Q9UJX2;P28066;Q9UNM6;P60900;Q13309;P55036;Q9UJX6;Q16763;P25787;P61289;P25788;Q9UKT4;Q8NHZ8;O75832;Q9H1A4;Q13616;P0CG48;P51668;Q12834;Q13257;P25789;O00233;O14965;P20618;P63208;P40306;P14635;Q13042;Q9UJX5;P51965;P49720;Q9UM13;P28062;P49721;Q9NYG5;P25786;O00762;P28072;Q9UJX3;Q13200;P28065;P62979;Q99436;P28070;Q9UJX4;Q9UM11;Q8TAA3;Q9UL46;Q99460;O00231;P0CG47;P48556;P28074;Q92530;P62987;A5LHX3;Q06323;P30260;O14818;P24941;O43684;Q16401;Q95997}

4673 Pathogen[ P14079] interacts with 66 human partners: {P28065;Q99436;P62333;P48556;P51965;P0CG48;Q9UKT4;Q13309;P40306;Q9UJX3;P55036;P28074;O00232;Q9H1A4;Q9UJX5;P49720;O00487;P25787;O75832;A5LHX3;P62979;O00233;P35998;P61289;P62987;P51665;P20618;Q9NYG5;Q8TAA3;Q14997;P51668;P14635;Q8NHZ8;P28062;P60900;Q9UM11;Q9UM13;Q13042;Q9UNM6;Q13257;Q99460;O14818;P49721;Q92530;Q95997;Q9UJX6;P30260;Q06323;P62191;O00762;Q15008;P43686;O43242;P25788;P63208;O00231;Q13616;P28066;Q9UL46;P0CG47;O14965;Q16401;Q9UJX4;P17980;O43684;P28072}

4674 Pathogen[ P03383] interacts with 62 human partners: {Q13257;Q8NHZ8;Q13616;P55036;P62987;Q9NYG5;P51965;Q9UJX6;P25789;P60900;P40306;O00233;O00762;P49721;Q06323;Q9UKT4;Q14997;Q9H1A4;P63208;P20618;Q13042;P14635;Q12834;O75832;Q9UM13;O43684;P24941;Q9UM11;Q9UL46;Q9UNM6;P25786;P25786;Q99460;P28072;Q13200;P28065;P28066;O14965;Q9UJX4;Q16401;P62979;O00231;P0CG47;Q9UJX5;Q13309;Q95997;P0CG48;P28074;Q92530;P49720;Q8TAA3;P61289;Q9UJX2;P28062;P30260;P48556;O14818;Q9UJX3;Q99436;P28070;P51668;P25787;P25788}

4675 Pathogen[ P03410] interacts with 67 human partners: {Q9UKT4;P28070;P55036;P0CG48;O43684;Q9H1A4;P25786;Q15008;Q16401;P60900;Q14997;P35998;P51965;Q99460;Q9UJX4;Q9NYG5;O00233;Q9UM13;O00232;Q8NHZ8;Q8TAA3;P48556;P49721;Q95997;A5LHX3;P62979;Q99436;O14965;P40306;Q06323;P63208;Q13200;P25787;P14635;Q9UM11;Q13042;Q13309;P24941;P28062;P51665;O14818;P51668;Q9UJX5;O00231;Q9UNM6;Q12834;P30260;P25789;P49720;Q13616;Q9UJX3;P62987;O00762;P28072;P25788;P28066;P28065;O43242;Q9UJX6;P0CG47;P17980;O75832;P20618;Q9UL46;P28074;P61289;Q13257}

4676 Pathogen[ P14075] interacts with 61 human partners: {P55036;P25788;Q13042;P28066;P24941;Q06323;O75832;Q8TAA3;Q9UKT4;P60900;P14635;Q9UM11;O00233;Q9UL46;P49720;P51965;Q13257;Q95997;O43684;Q13200;P48556;Q16401;P28070;Q9UJX2;P49721;O00231;Q9UJX6;Q8NHZ8;Q92530;P63208;P0CG48;P62979;O00762;P28062;P28074;Q9UJX5;P28065;O14965;P25786;O14818;P62987;Q13309;P28072;Q14997;Q9UJX4;P0CG47;P25787;P20618;Q9H1A4;Q9UNM6;Q13616;Q9UM13;P30260;P61289;Q9UJX3;P40306;P51668;Q9NYG5;Q99436;Q12834;P25789}

4677 Pathogen[ P0C206] interacts with 66 human partners: {P61289;Q16763;Q99436;P28062;Q9UNM6;P0CG48;O75832;P40306;P28065;Q14997;Q9UJX3;P55036;Q13309;P25786;P25788;P25787;Q9UJX5;Q9UJX2;Q06323;Q95997;P49720;O00232;P60900;Q13616;O43242;Q13257;P30260;A5LHX3;P25789;P51965;Q9UKT4;Q9H1A4;Q9NYG5;Q9UJX4;P20618;P63208;Q13200;Q8TAA3;P28070;Q99460;P62979;P28066;Q9UM11;O00762;O14818;Q9UJX6;P0CG47;P28072;P28074;Q92530;P49721;P14635;O43684;P62987;O14965;Q9UM13;Q9UL46;Q13042;P24941;P51668;O00233;P48556;Q16401;Q12834;Q8NHZ8;O00231}

4678 Pathogen[ P03363] interacts with 27 human partners: {Q9UJX2;Q9NYG5;Q13309;Q13042;P51965;O00762;Q92530;Q8NHZ8;Q9UJX3;P61289;P24941;Q9UJX5;P30260;Q9UJX6;Q9UM11;Q9UJX4;Q13616;O43684;Q9UKT4;Q9H1A4;P62987;Q13257;P51668;Q9UM13;Q95997;Q12834;P63208}

4679 [Cluster 426]GO:0019933+P biological\_process [name] cAMP-mediated signaling [def] "A series of molecular signals in which a cell uses cyclic AMP to convert an extracellular signal into a response." [GOC

4680 Pathogen[ Q2Q067] interacts with 1 human partners: {Q13542}

4681 Pathogen[ P0C214] interacts with 1 human partners: {Q13542}

4682 Pathogen[ P03346] interacts with 1 human partners: {Q13542}

4683 Pathogen[ Q85601] interacts with 1 human partners: {Q13542}

4684 Pathogen[ P14079] interacts with 2 human partners: {O43181;Q13542}

4685 Pathogen[ P03383] interacts with 1 human partners: {Q13542}

4686 Pathogen[ P03410] interacts with 2 human partners: {Q13542;O43181}

4687 Pathogen[ P14075] interacts with 1 human partners: {Q13542}

4688 Pathogen[ P0C206] interacts with 1 human partners: {Q13542}

4689 Pathogen[ P03363] interacts with 1 human partners: {Q13542}

4690 [Cluster 427]GO:0008630+P biological\_process [name] DNA damage response, signal transduction resulting in induction of apoptosis [def] "A cascade of processes initiated by the detection of DNA damage and resulting in the induction of apoptosis (programmed cell death)." [GOC

4691 Pathogen[ Q2Q067] interacts with 11 human partners:{Q14526;Q9NS56;O95243;O60543;O15350;O96017;Q9P278;Q03468;Q9UHD4;Q9BZF9;P23025}

4692 Pathogen[ P0C214] interacts with 13 human partners:{O95243;Q14526;Q9P278;Q14164;O60543;P23025;Q9NS56;O15350;O96017;Q9UHD4;Q9BZF9;P40692;Q03468}

4693 Pathogen[ P03346] interacts with 13 human partners:{O96017;O15350;Q9P278;Q14526;Q9NS56;Q03468;P51587;O95243;P23025;Q9BZF9;O60543;Q14164;Q9UHD4}

4694 Pathogen[ Q85601] interacts with 14 human partners:{Q9NS56;P23025;O96017;Q9BZF9;O95243;Q9UHD4;Q14526;Q14164;Q03468;O60543;O15350;P40692;Q9P278;P51587}

4695 Pathogen[ P14079] interacts with 12 human partners:{O60543;P40692;Q14164;P51587;P23025;O15350;O95243;Q9NS56;Q9BZF9;Q03468;P52701;Q9UHD4}

4696 Pathogen[ P03383] interacts with 10 human partners:{O60543;Q14526;Q9BZF9;Q9UHD4;Q9P278;O95243;Q03468;P23025;O15350;O96017}

4697 Pathogen[ P03410] interacts with 13 human partners:{P23025;P40692;Q14526;Q9UHD4;Q03468;O95243;P52701;P51587;O96017;Q9BZF9;O15350;O60543;Q9P278}

4698 Pathogen[ P14075] interacts with 10 human partners:{Q9UHD4;Q14526;P23025;Q03468;O96017;O15350;O60543;O95243;Q9BZF9;Q9P278}

4699 Pathogen[ P0C206] interacts with 15 human partners:{Q9NS56;O96017;P52701;P51587;P40692;Q9P278;Q03468;Q14164;Q9UHD4;O15350;Q14526;O60543;Q9BZF9;O95243;P23025}

4700 Pathogen[ P03363] interacts with 8 human partners:{O60543;Q14526;P23025;O96017;Q9BZF9;O95243;Q03468;Q9P278}

4701 [Cluster 428]GO:0070997+P biological\_process [name] neuron death [def] "The process of cell death in a neuron." [GOC

4702 Pathogen[ Q2Q067] interacts with 2 human partners:{Q6NUN9;O60260}

4703 Pathogen[ P0C214] interacts with 2 human partners:{O60260;Q6NUN9}

4704 Pathogen[ P03346] interacts with 2 human partners:{O60260;Q6NUN9}

4705 Pathogen[ Q85601] interacts with 2 human partners:{Q6NUN9;O60260}

4706 Pathogen[ P14079] interacts with 3 human partners:{O60260;Q6NUN9;Q9UL15}

4707 Pathogen[ P03383] interacts with 2 human partners:{O60260;Q6NUN9}

4708 Pathogen[ P03410] interacts with 3 human partners:{O60260;Q6NUN9;Q9UL15}

4709 Pathogen[ P14075] interacts with 2 human partners:{Q6NUN9;O60260}

4710 Pathogen[ P0C206] interacts with 2 human partners:{Q6NUN9;O60260}

4711 Pathogen[ P03363] interacts with 1 human partners:{Q6NUN9}

4712 [Cluster 429]GO:0048935+P biological\_process [name] peripheral nervous system neuron development [def] "The process whose specific outcome is the progression of a neuron whose cell body is located in the peripheral nervous system, from initial commitment of the cell to a neuronal fate, to the fully functional differentiated neuron." [GOC

4713 Pathogen[ Q2Q067] interacts with 5 human partners:{Q01196;P50549;O95948;P28356;Q13761}

4714 Pathogen[ P0C214] interacts with 3 human partners:{Q13761;P50549;O95948}

4715 Pathogen[ P03346] interacts with 6 human partners:{P50549;P28358;O95948;Q13761;P28356;Q01196}

4716 Pathogen[ Q85601] interacts with 3 human partners:{P50549;O95948;Q13761}

4717 Pathogen[ P14079] interacts with 3 human partners:{O95948;P50549;Q13761}

4718 Pathogen[ P03383] interacts with 2 human partners:{Q13761;P50549}

4719 Pathogen[ P03410] interacts with 3 human partners:{O95948;P50549;Q13761}

4720 Pathogen[ P14075] interacts with 2 human partners:{P50549;Q13761}

4721 Pathogen[ P0C206] interacts with 4 human partners:{P50549;P28356;Q13761;O95948}

4722 Pathogen[ P03363] interacts with 5 human partners:{O95948;P28356;P28358;P50549;Q13761}

4723 [Cluster 430]GO:0045647+P biological\_process [name] negative regulation of erythrocyte differentiation [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of erythrocyte differentiation." [GOC

4724 Pathogen[ Q2Q067] interacts with 5 human partners:{Q9Y5Q3;Q9Y2Y9;P20719;P25791;Q86U70}

4725 Pathogen[ P0C214] interacts with 4 human partners:{Q9Y2Y9;Q9Y5Q3;P25791;Q86U70}

4726 Pathogen[ P03346] interacts with 5 human partners:{Q86U70;Q9Y5Q3;P20719;P25791;Q9Y2Y9}

4727 Pathogen[ Q85601] interacts with 4 human partners:{Q86U70;Q9Y2Y9;Q9Y5Q3;P25791}

4728 Pathogen[ P14079] interacts with 4 human partners:{Q9Y5Q3;Q9Y2Y9;Q86U70;P25791}

4729 Pathogen[ P03383] interacts with 4 human partners:{Q9Y5Q3;Q86U70;Q9Y2Y9;P25791}

4730 Pathogen[ P03410] interacts with 4 human partners:{Q9Y2Y9;P25791;Q9Y5Q3;Q86U70}

4731 Pathogen[ P14075] interacts with 4 human partners:{Q86U70;P25791;Q9Y5Q3;Q9Y2Y9}

4732 Pathogen[ P0C206] interacts with 5 human partners:{Q9Y5Q3;Q9Y2Y9;P25791;Q86U70;P20719}

4733 Pathogen[ P03363] interacts with 5 human

partners:{Q86U70;P20719;Q9Y2Y9;P25791;Q9Y5Q3}

4734 [Cluster 431]GO:0006610+P biological\_process [name] ribosomal protein import into nucleus [def] "The directed movement of a ribosomal protein from the cytoplasm into the nucleus, across the nuclear membrane." [GOC

4735 Pathogen[ Q2Q067] interacts with 4 human partners:{Q14974;Q9UI26;O00410;P62829}

4736 Pathogen[ P0C214] interacts with 3 human partners:{Q9UI26;P62829;Q14974}

4737 Pathogen[ P03346] interacts with 4 human partners:{Q9UI26;O00410;P62829;Q14974}

4738 Pathogen[ Q85601] interacts with 4 human partners:{Q9UI26;P62829;Q14974;O00410}

4739 Pathogen[ P14079] interacts with 4 human partners:{P62829;O00410;Q9UI26;Q14974}

4740 Pathogen[ P03383] interacts with 4 human partners:{Q9UI26;Q14974;P62829;O00410}

4741 Pathogen[ P03410] interacts with 4 human partners:{P62829;Q14974;O00410;Q9UI26}

4742 Pathogen[ P14075] interacts with 4 human partners:{Q9UI26;O00410;Q14974;P62829}

4743 Pathogen[ P0C206] interacts with 4 human partners:{Q14974;O00410;Q9UI26;P62829}

4744 Pathogen[ P03363] interacts with 4 human partners:{O00410;P62829;Q14974;Q9UI26}

4745 [Cluster 432]GO:0032786+P biological\_process [name] positive regulation of transcription elongation, DNA-dependent [def] "Any process that activates or increases the frequency, rate or extent of transcription elongation, the extension of an RNA molecule after transcription initiation and promoter clearance by the addition of ribonucleotides catalyzed by a DNA-dependent RNA polymerase." [GOC

4746 Pathogen[ Q2Q067] interacts with 7 human partners:{Q9HB65;O00267;P05114;P55199;Q03468;P63272;Q9Y5B9}

4747 Pathogen[ P0C214] interacts with 7 human partners:{O00267;P55199;P63272;Q9Y5B9;Q9HB65;P05114;Q03468}

4748 Pathogen[ P03346] interacts with 7 human partners:{Q9HB65;P05114;P63272;Q03468;Q9Y5B9;O00267;P55199}

4749 Pathogen[ Q85601] interacts with 7 human partners:{Q9Y5B9;Q03468;O00267;P55199;P63272;Q9HB65;P05114}

4750 Pathogen[ P14079] interacts with 7 human partners:{Q9Y5B9;P55199;P05114;P63272;Q03468;Q9HB65;O00267}

4751 Pathogen[ P03383] interacts with 7 human partners:{P55199;P63272;O00267;Q9HB65;Q03468;P05114;Q9Y5B9}

4752 Pathogen[ P03410] interacts with 7 human partners:{O00267;Q9Y5B9;P63272;Q03468;P55199;P05114;Q9HB65}

4753 Pathogen[ P14075] interacts with 7 human partners:{Q03468;Q9Y5B9;P55199;Q9HB65;O00267;P63272;P05114}

4754 Pathogen[ P0C206] interacts with 7 human partners:{Q9HB65;P05114;Q03468;Q9Y5B9;O00267;P55199;P63272}

4755 Pathogen[ P03363] interacts with 7 human partners:{P55199;Q9HB65;O00267;Q9Y5B9;P05114;Q03468;P63272}

4756 [Cluster 433]GO:0007506+P biological\_process [name] gonadal mesoderm development [def] "The process whose specific outcome is the progression of the gonadal mesoderm over time, from its formation to the mature structure. The gonadal mesoderm is the middle layer of the three primary germ layers of the embryo which will go on to form the gonads of the organism." [GOC

4757 Pathogen[ Q2Q067] interacts with 1 human partners:{Q01534}

4758 Pathogen[ P0C214] interacts with 6 human partners:{P0CW01;P0CV99;Q01534;P0CW00;P0CV98;A6NKD2}

4759 Pathogen[ P03346] interacts with 1 human partners:{Q01534}

4760 Pathogen[ Q85601] interacts with 6 human partners:{P0CW01;Q01534;P0CV98;P0CW00;A6NKD2;P0CV99}

4761 Pathogen[ P14079] interacts with 1 human partners:{Q01534}

4762 Pathogen[ P03383] interacts with 1 human partners:{Q01534}

4763 Pathogen[ P03410] interacts with 1 human partners:{Q01534}

4764 Pathogen[ P14075] interacts with 1 human partners:{Q01534}

4765 Pathogen[ P0C206] interacts with 6 human partners:{P0CV98;Q01534;A6NKD2;P0CW01;P0CW00;P0CV99}

4766 Pathogen[ P03363] interacts with 1 human partners:{Q01534}

4767 [Cluster 434]GO:0034773+P biological\_process [name] histone H4-K20 trimethylation [def] "The modification of histone H4 by addition of three methyl groups to lysine at position 20 of the histone." [GOC

4768 Pathogen[ Q2Q067] interacts with 1 human partners:{Q86Y97}

4769 Pathogen[ P0C214] interacts with 1 human partners:{Q86Y97}

4770 Pathogen[ P03346] interacts with 1 human partners:{Q86Y97}

4771 Pathogen[ Q85601] interacts with 1 human partners:{Q86Y97}

4772 Pathogen[ P14079] interacts with 1 human partners:{Q86Y97}

4773 Pathogen[ P03383] interacts with 1 human partners:{Q86Y97}

4774 Pathogen[ P03410] interacts with 1 human partners:{Q86Y97}

4775 Pathogen[ P14075] interacts with 1 human partners:{Q86Y97}

4776 Pathogen[ P0C206] interacts with 1 human partners:{Q86Y97}

4777 Pathogen[ P03363] interacts with 1 human partners:{Q86Y97}

4778 [Cluster 435]GO:0060565+P biological\_process [name] inhibition of mitotic anaphase-promoting complex activity [def] "Any process that prevents the activation of anaphase-promoting complex activity regulating the mitotic cell cycle." [GOC

4779 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UKT4}

4780 Pathogen[ P0C214] interacts with 1 human partners:{Q9UKT4}

4781 Pathogen[ P03346] interacts with 1 human partners:{Q9UKT4}

4782 Pathogen[ Q85601] interacts with 1 human partners:{Q9UKT4}  
4783 Pathogen[ P14079] interacts with 1 human partners:{Q9UKT4}  
4784 Pathogen[ P03383] interacts with 1 human partners:{Q9UKT4}  
4785 Pathogen[ P03410] interacts with 1 human partners:{Q9UKT4}  
4786 Pathogen[ P14075] interacts with 1 human partners:{Q9UKT4}  
4787 Pathogen[ P0C206] interacts with 1 human partners:{Q9UKT4}  
4788 Pathogen[ P03363] interacts with 1 human partners:{Q9UKT4}  
4789 [Cluster 436]GO:0006283+P biological\_process [name] transcription-coupled  
nucleotide-excision repair [def] "The nucleotide-excision repair process that carries  
out preferential repair of DNA lesions on the actively transcribed strand of the DNA  
duplex. In addition, the transcription-coupled nucleotide-excision repair pathway is  
required for the recognition and repair of a small subset of lesions that are not  
recognized by the global genome nucleotide excision repair pathway." [PMID  
4790 Pathogen[ Q2Q067] interacts with 35 human  
partners:{Q2YD98;Q15054;P52434;Q93009;Q92889;P27694;Q13889;P19388;P52435;P35244;P327  
80;P05114;P30876;P19387;P61218;Q92759;P49005;P12004;P62487;P51948;P15927;P56282;Q9HC  
U8;P50613;Q03468;P62875;P24928;Q13216;P23193;P35251;P53803;Q9HCS7;Q13888;P28715;P519  
46}  
4791 Pathogen[ P0C214] interacts with 32 human  
partners:{P51946;Q9HCS7;P30876;Q92889;P53803;P50613;P52435;P61218;P35251;P49005;Q9HC  
U8;Q13216;P28715;P62487;P51948;P15927;P35244;Q93009;P62875;P32780;P24928;Q15054;Q138  
88;P52434;P27694;P19387;P23193;P19388;P05114;P56282;Q03468;Q92759}  
4792 Pathogen[ P03346] interacts with 39 human  
partners:{P12004;Q93009;P28715;P52434;Q9HCU8;P27694;P07992;P35244;P35250;Q13888;P562  
82;P05114;P53803;P61218;P49005;Q9HCS7;Q13889;P62487;P19388;Q03468;P52435;P51946;P369  
54;P15927;P35249;Q13216;Q2YD98;Q92759;Q92889;P30876;P35251;P24928;P23193;P40937;P519  
48;P32780;P62875;Q15054;P19387}  
4793 Pathogen[ Q85601] interacts with 35 human  
partners:{P51946;P36954;Q9HCS7;Q93009;P56282;Q13888;Q13216;P35244;P53803;P61218;P490  
05;P51948;Q15054;P27694;Q92889;P28715;P62487;P19388;Q03468;P15927;Q92759;P32780;P524  
35;P35251;P50613;P23193;Q9HCU8;P19387;P12004;P24928;P30876;P52434;P05114;P19447;P628  
75}  
4794 Pathogen[ P14079] interacts with 40 human  
partners:{P62875;P05114;P28715;P19387;P51946;P62487;P40937;P52434;P49005;P05114;P308  
76;P61218;Q9HCU8;Q13216;Q13889;P53803;Q9HCS7;P50613;Q13888;Q15054;P35250;P19388;P562  
82;P52435;P35251;Q92759;Q92889;P32780;P15927;P23193;P27694;Q03468;P12004;P24928;Q2YD  
98;P35244;P36954;P07992;P19447;P51948}  
4795 Pathogen[ P03383] interacts with 30 human  
partners:{P53803;Q9HCU8;Q13216;P51948;Q9HCS7;Q13888;P23193;P27694;P52434;P61218;P490  
05;P56282;P62487;P15927;P19387;P50613;P51946;P24928;Q03468;P35244;Q92759;Q15054;P051  
14;P62875;P52435;P19388;P30876;Q2YD98;P32780;P35251}  
4796 Pathogen[ P03410] interacts with 40 human  
partners:{P35244;P19387;Q13889;P36954;P07992;P24928;P51946;P30876;Q92889;P56282;P231  
93;Q03468;P28715;P05114;P50613;Q9HCS7;P35251;P52435;P53803;Q2YD98;P19447;P62875;Q150  
54;P61218;P13216;P51948;Q13888;P52434;P62487;P49005;P27694;P15927;P35250;P40937;P193  
88;P12004;P32780;P05114;Q92759;Q9HCU8}  
4797 Pathogen[ P14075] interacts with 31 human  
partners:{Q92759;P30876;P50613;P19388;P61218;Q13216;P49005;P19387;P15927;P62487;Q034  
68;P35244;P23193;Q13889;Q2YD98;P24928;P35251;Q15054;P27694;P51946;P32780;Q9HCS7;Q9HC  
U8;P56282;P62875;P52434;P51948;P52435;P53803;P05114;Q13888}  
4798 Pathogen[ P0C206] interacts with 39 human  
partners:{Q2YD98;P62875;P28715;P23193;P35251;P36954;P05114;Q9HCU8;P19388;P61218;Q034  
68;Q93009;P49005;Q13216;P07992;P19447;P53803;P05114;Q15054;P19387;Q13888;P50613;Q928  
89;Q92759;P52435;P62487;P32780;Q13889;P56282;P27694;P15927;P24928;P35244;Q9HCS7;P524  
34;P51946;P51948;P12004;P30876}  
4799 Pathogen[ P03363] interacts with 27 human  
partners:{P27694;P19388;P30876;Q9HCS7;Q13888;P32780;Q92759;P19387;P61218;P51946;Q2YD  
98;Q92889;P35251;P24928;P49005;P35244;P15927;Q9HCU8;P05114;P62487;P23193;Q03468;Q150  
54;Q13216;P53803;P52435;P52434}  
4800 [Cluster 437]GO:0043653+P biological\_process [name] mitochondrial fragmentation  
involved in apoptosis [def] "The change in the morphology of the mitochondria in an  
apoptotic cell from a highly branched network to a fragmented vesicular form." [GOC  
4801 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9GZY8;Q12983;Q9NT62}  
4802 Pathogen[ P0C214] interacts with 3 human partners:{Q12983;Q9NT62;Q9GZY8}  
4803 Pathogen[ P03346] interacts with 3 human partners:{Q9NT62;Q12983;Q9GZY8}  
4804 Pathogen[ Q85601] interacts with 3 human partners:{Q9NT62;Q12983;Q9GZY8}  
4805 Pathogen[ P14079] interacts with 3 human partners:{Q9NT62;Q12983;Q9GZY8}  
4806 Pathogen[ P03383] interacts with 3 human partners:{Q9NT62;Q12983;Q9GZY8}  
4807 Pathogen[ P03410] interacts with 3 human partners:{Q12983;Q9GZY8;Q9NT62}  
4808 Pathogen[ P14075] interacts with 3 human partners:{Q12983;Q9NT62;Q9GZY8}  
4809 Pathogen[ P0C206] interacts with 3 human partners:{Q12983;Q9GZY8;Q9NT62}  
4810 Pathogen[ P03363] interacts with 2 human partners:{Q9NT62;Q9GZY8}  
4811 [Cluster 438]GO:0060044+P biological\_process [name] negative regulation of cardiac  
muscle cell proliferation [def] "Any process that stops, prevents, or reduces the  
frequency, rate or extent of cardiac muscle cell proliferation." [GOC  
4812 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9H4B6}

4813 Pathogen[ P0C214] interacts with 1 human partners:{Q9H4B6}  
4814 Pathogen[ P03346] interacts with 2 human partners:{Q99593;Q9H4B6}  
4815 Pathogen[ Q85601] interacts with 1 human partners:{Q9H4B6}  
4816 Pathogen[ P14079] interacts with 1 human partners:{Q9H4B6}  
4817 Pathogen[ P03383] interacts with 1 human partners:{Q9H4B6}  
4818 Pathogen[ P03410] interacts with 1 human partners:{Q9H4B6}  
4819 Pathogen[ P14075] interacts with 1 human partners:{Q9H4B6}  
4820 Pathogen[ P0C206] interacts with 1 human partners:{Q9H4B6}  
4821 Pathogen[ P03363] interacts with 1 human partners:{Q9H4B6}  
4822 [Cluster 439]GO:0045600+P biological\_process [name] positive regulation of fat cell differentiation [def] "Any process that activates or increases the frequency, rate or extent of adipocyte differentiation." [GOC  
4823 Pathogen[ Q2Q067] interacts with 6 human partners:{P31749;Q05516;Q76L83;Q9NYF0;Q86X55;P49715}  
4824 Pathogen[ P0C214] interacts with 6 human partners:{Q76L83;Q86X55;P16220;Q9NYF0;Q05516;P31749}  
4825 Pathogen[ P03346] interacts with 10 human partners:{P16220;P49715;P31749;O60519;Q5VYS4;Q05516;Q9NYF0;Q86X55;Q76L83;Q9H7C9}  
4826 Pathogen[ Q85601] interacts with 7 human partners:{P31749;Q86X55;Q9NYF0;P16220;Q76L83;Q05516;P49715}  
4827 Pathogen[ P14079] interacts with 7 human partners:{Q0VDE8;Q76L83;Q05516;Q5VYS4;P49715;Q9H7C9;Q9NYF0}  
4828 Pathogen[ P03383] interacts with 6 human partners:{P16220;P31749;Q86X55;Q05516;Q76L83;Q9NYF0}  
4829 Pathogen[ P03410] interacts with 8 human partners:{Q5VYS4;Q86X55;P31749;Q76L83;P16220;Q9NYF0;Q9H7C9;Q0VDE8}  
4830 Pathogen[ P14075] interacts with 7 human partners:{Q76L83;P31749;Q86X55;Q0VDE8;Q05516;P16220;Q9NYF0}  
4831 Pathogen[ P0C206] interacts with 9 human partners:{Q76L83;P31749;P16220;Q05516;Q86X55;Q0VDE8;P49715;Q5VYS4;Q9NYF0}  
4832 Pathogen[ P03363] interacts with 9 human partners:{Q0VDE8;Q9H7C9;P16220;Q9NYF0;Q5VYS4;P31749;Q76L83;Q05516;Q86X55}  
4833 [Cluster 440]GO:0010625+P biological\_process [name] positive regulation of Schwann cell proliferation [def] "Any process that increases the frequency or rate of the multiplication or reproduction of Schwann cells, resulting in the expansion of their population. Schwann cells are a type of glial cell in the peripheral nervous system." [GOC  
4834 Pathogen[ Q2Q067] interacts with 1 human partners:{P14136}  
4835 Pathogen[ P0C214] interacts with 1 human partners:{P14136}  
4836 Pathogen[ P03346] interacts with 1 human partners:{P14136}  
4837 Pathogen[ Q85601] interacts with 1 human partners:{P14136}  
4838 Pathogen[ P14079] interacts with 1 human partners:{P14136}  
4839 Pathogen[ P03383] interacts with 1 human partners:{P14136}  
4840 Pathogen[ P03410] interacts with 1 human partners:{P14136}  
4841 Pathogen[ P14075] interacts with 1 human partners:{P14136}  
4842 Pathogen[ P0C206] interacts with 1 human partners:{P14136}  
4843 Pathogen[ P03363] interacts with 1 human partners:{P14136}  
4844 [Cluster 441]GO:0030031+P biological\_process [name] cell projection assembly [def] "Formation of a prolongation or process extending from a cell, e.g. a flagellum or axon." [GOC  
4845 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9BZW7;P40121}  
4846 Pathogen[ P0C214] interacts with 2 human partners:{P40121;Q9BZW7}  
4847 Pathogen[ P03346] interacts with 2 human partners:{P40121;Q9BZW7}  
4848 Pathogen[ Q85601] interacts with 2 human partners:{P40121;Q9BZW7}  
4849 Pathogen[ P14079] interacts with 2 human partners:{P40121;Q9BZW7}  
4850 Pathogen[ P03383] interacts with 1 human partners:{Q9BZW7}  
4851 Pathogen[ P03410] interacts with 2 human partners:{Q9BZW7;P40121}  
4852 Pathogen[ P14075] interacts with 1 human partners:{Q9BZW7}  
4853 Pathogen[ P0C206] interacts with 2 human partners:{P40121;Q9BZW7}  
4854 Pathogen[ P03363] interacts with 2 human partners:{Q9BZW7;P40121}  
4855 [Cluster 442]GO:0046499+P biological\_process [name] S-adenosylmethioninamine metabolic process [def] "The chemical reactions and pathways involving S-adenosylmethioninamine, (5-deoxy-5-adenosyl)(3-aminopropyl) methylsulfonium salt." [GOC  
4856 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9Y6K1;Q9UBC3}  
4857 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y6K1}  
4858 Pathogen[ P03346] interacts with 2 human partners:{Q9Y6K1;Q9UBC3}  
4859 Pathogen[ Q85601] interacts with 2 human partners:{Q9Y6K1;Q9UBC3}  
4860 Pathogen[ P14079] interacts with 2 human partners:{Q9Y6K1;Q9UBC3}  
4861 Pathogen[ P03383] interacts with 1 human partners:{Q9Y6K1}  
4862 Pathogen[ P03410] interacts with 2 human partners:{Q9UBC3;Q9Y6K1}  
4863 Pathogen[ P14075] interacts with 1 human partners:{Q9Y6K1}  
4864 Pathogen[ P0C206] interacts with 2 human partners:{Q9Y6K1;Q9UBC3}  
4865 Pathogen[ P03363] interacts with 2 human partners:{Q9Y6K1;Q9UBC3}  
4866 [Cluster 443]GO:0045727+P biological\_process [name] positive regulation of translation [def] "Any process that activates or increases the frequency, rate or extent

of the chemical reactions and pathways resulting in the formation of proteins by the translation of mRNA." [GOC

4867 Pathogen[ Q2Q067] interacts with 15 human  
partners:{P62701;Q9BZQ8;Q9H074;P20749;P38919;Q9BZI7;Q9BRP8;Q9BY77;Q04695;Q9H9Z2;Q9NY43;Q8NE71;P11940;Q71UM5;Q9H1J1}

4868 Pathogen[ P0C214] interacts with 17 human  
partners:{Q9BY77;Q9BZI7;Q9BRP8;Q9UPU9;P62701;Q71UM5;P11940;Q8NE71;Q04695;Q9BZQ8;P38919;Q9H074;P20749;Q9H9Z2;Q14011;Q9NY43;Q9H1J1}

4869 Pathogen[ P03346] interacts with 17 human  
partners:{Q06945;Q9BZI7;Q14011;P38919;Q71UM5;P11940;Q04695;Q9H074;Q9BZQ8;Q9BY77;P20749;P62701;Q8NE71;Q9BRP8;Q9H9Z2;Q9NY43;Q9H1J1}

4870 Pathogen[ Q85601] interacts with 16 human  
partners:{Q9BZI7;Q71UM5;P62701;Q9BRP8;Q9BZQ8;P38919;Q9BY77;P11940;Q04695;Q9H074;Q8NE71;Q9UPU9;Q9H9Z2;Q9NY43;P20749;Q9H1J1}

4871 Pathogen[ P14079] interacts with 18 human  
partners:{Q9H1J1;O43432;Q9UPU9;Q9H074;Q9NY43;Q9H9Z2;Q04695;Q9BY77;Q9BZI7;P11940;Q9Y6X1;Q9BRP8;Q8NE71;Q71UM5;P20749;Q14011;P62701;Q9BZQ8}

4872 Pathogen[ P03383] interacts with 15 human  
partners:{Q9H9Z2;Q8NE71;P20749;P38919;Q71UM5;P11940;Q9BZQ8;Q04695;Q9BY77;Q9H074;Q9NY43;P62701;Q9BRP8;Q9BZI7;Q9H1J1}

4873 Pathogen[ P03410] interacts with 19 human  
partners:{P20749;Q8NE71;P11940;O43432;Q9H1J1;P62701;Q9BZI7;Q9H074;Q9Y6X1;Q9UPU9;Q14011;P38919;Q04695;Q9BY77;Q9H9Z2;Q9BZQ8;Q9NY43;Q71UM5;Q9BRP8}

4874 Pathogen[ P14075] interacts with 15 human  
partners:{Q9BRP8;Q9H9Z2;Q9H074;P11940;Q04695;Q9NY43;Q9BZQ8;Q8NE71;P62701;P38919;P20749;Q9BY77;Q71UM5;Q9BZI7;Q9H1J1}

4875 Pathogen[ P0C206] interacts with 17 human  
partners:{Q9BZQ8;Q9H074;Q9BZI7;Q9NY43;Q9BY77;Q14011;Q9H9Z2;Q9UPU9;P62701;Q71UM5;Q8NE71;P20749;P38919;P11940;Q04695;Q9BRP8;Q9H1J1}

4876 Pathogen[ P03363] interacts with 18 human  
partners:{P38919;Q9BZQ8;P11940;Q9BRP8;P20749;Q9BY77;Q9UPU9;Q15717;Q9H9Z2;Q14011;Q71UM5;Q8NE71;Q9BZI7;Q9NY43;P62701;Q9H074;Q04695;Q9H1J1}

4877 [Cluster 444]GO:0010883+P biological\_process [name] regulation of lipid storage  
[def] "Any process that modulates the rate, frequency or extent of lipid storage. Lipid storage is the accumulation and maintenance in cells or tissues of lipids, compounds soluble in organic solvents but insoluble or sparingly soluble in aqueous solvents. Lipid reserves can be accumulated during early developmental stages for mobilization and utilization at later stages of development." [GOC

4878 Pathogen[ Q2Q067] interacts with 1 human partners:{Q969H0}

4879 Pathogen[ P0C214] interacts with 1 human partners:{Q969H0}

4880 Pathogen[ P03346] interacts with 1 human partners:{Q969H0}

4881 Pathogen[ Q85601] interacts with 1 human partners:{Q969H0}

4882 Pathogen[ P14079] interacts with 2 human partners:{Q969H0;Q9C0B1}

4883 Pathogen[ P03383] interacts with 1 human partners:{Q969H0}

4884 Pathogen[ P03410] interacts with 2 human partners:{Q969H0;Q9C0B1}

4885 Pathogen[ P14075] interacts with 1 human partners:{Q969H0}

4886 Pathogen[ P0C206] interacts with 1 human partners:{Q969H0}

4887 Pathogen[ P03363] interacts with 1 human partners:{Q969H0}

4888 [Cluster 445]GO:0010827+P biological\_process [name] regulation of glucose transport  
[def] "Any process that modulates the frequency, rate or extent of glucose transport. Glucose transport is the directed movement of the hexose monosaccharide glucose into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore." [GOC

4889 Pathogen[ Q2Q067] interacts with 29 human  
partners:{Q96EE3;P52948;Q12769;Q96HA1;P49790;P49792;O75694;P78406;Q99567;Q8N1F7;Q7Z3B4;Q8NFH4;P12270;Q9BW27;Q8TEM1;Q9BVL2;Q9UKX7;Q9NRG9;Q8NFH3;P37198;Q92621;Q96RU7;O15504;P57740;Q8WUM0;P35658;Q8NFH5;Q5SRE5;Q14397}

4890 Pathogen[ P0C214] interacts with 29 human  
partners:{Q8NFH5;Q8TEM1;P78406;P57740;Q99567;Q8N1F7;O75694;Q96EE3;P49792;Q9UKX7;P49790;P37198;Q9BW27;Q9NRG9;P35658;Q8NFH3;Q14397;Q96RU7;O15504;P12270;Q8NFH4;Q9BVL2;Q5SRE5;Q7Z3B4;Q8WUM0;P52948;Q92621;Q12769;Q96HA1}

4891 Pathogen[ P03346] interacts with 29 human  
partners:{Q8TEM1;Q8NFH4;Q8WUM0;P12270;Q12769;Q96EE3;Q99567;Q9UKX7;O75694;Q9NRG9;P78406;P57740;Q9BVL2;Q8N1F7;Q8NFH5;P37198;Q8NFH3;P35658;Q5SRE5;Q92621;Q9BW27;Q96RU7;Q14397;P49790;Q96HA1;Q7Z3B4;O15504;P49792;P52948}

4892 Pathogen[ Q85601] interacts with 28 human  
partners:{Q8TEM1;Q5SRE5;Q8NFH4;Q8NFH3;Q96EE3;Q12769;P78406;P57740;Q9NRG9;Q8WUM0;Q8N1F7;P12270;O75694;O15504;Q9BW27;Q92621;P52948;Q9UKX7;Q8NFH5;Q96RU7;P35658;Q14397;Q99567;P49792;Q9BVL2;Q96HA1;Q7Z3B4;P49790}

4893 Pathogen[ P14079] interacts with 28 human  
partners:{Q8NFH5;Q9BW27;Q96HA1;P57740;Q8N1F7;P35658;Q92621;Q8TEM1;Q9UKX7;Q9BVL2;O15504;Q8WUM0;P12270;Q99567;Q8NFH3;Q96EE3;P37198;P49790;Q96RU7;Q8NFH4;P78406;Q7Z3B4;Q14397;Q12769;Q5SRE5;Q9NRG9;O75694;P52948}

4894 Pathogen[ P03383] interacts with 29 human  
partners:{Q9BVL2;Q96EE3;O15504;Q8WUM0;Q92621;P49792;Q8NFH4;P12270;P52948;P78406;P57740;Q8NFH5;Q8N1F7;Q8TEM1;Q12769;Q99567;Q14397;Q9BW27;Q5SRE5;Q96RU7;P35658;Q96HA1;Q9NR

4895 G9;P37198;Q9UKX7;Q7Z3B4;P49790;O75694;Q8NFH3}  
 Pathogen[ P03410] interacts with 28 human  
 partners:{Q99567;Q14397;Q7Z3B4;Q9BW27;Q9UKX7;Q8NFH4;Q5SRE5;P52948;O15504;O75694;P784  
 06;Q96HA1;Q8N1F7;P49790;P12270;P35658;Q8NFH5;Q8TEM1;Q96EE3;Q96RU7;Q8WUM0;P57740;Q127  
 69;Q9NRG9;Q8NFH3;Q9BVL2;Q92621;P49792}

4896 Pathogen[ P14075] interacts with 29 human  
 partners:{P78406;P57740;P49792;Q8N1F7;Q9UKX7;P35658;P12270;Q92621;Q96HA1;Q9BW27;Q8TE  
 M1;Q96EE3;P37198;Q5SRE5;Q14397;Q96RU7;Q8NFH3;O15504;Q99567;Q12769;Q9BVL2;P49790;Q8WU  
 M0;O75694;Q9NRG9;Q7Z3B4;Q8NFH4;Q8NFH5;P52948}

4897 Pathogen[ P0C206] interacts with 27 human  
 partners:{Q96EE3;Q92621;P49790;Q5SRE5;Q8NFH5;Q9NRG9;Q7Z3B4;Q96HA1;P57740;Q96RU7;Q8WU  
 M0;P49792;Q8TEM1;Q9UKX7;O75694;Q99567;Q8NFH4;P78406;Q14397;O15504;Q12769;Q8NFH3;Q8N1  
 F7;P35658;Q9BW27;Q9BVL2;P12270}

4898 Pathogen[ P03363] interacts with 26 human  
 partners:{Q7Z3B4;Q5SRE5;P12270;Q8NFH4;Q14397;Q8NFH3;Q12769;Q9UKX7;Q9NRG9;Q8WUM0;Q9BV  
 L2;Q99567;Q96HA1;P49792;P35658;O75694;P49790;P57740;P78406;P52948;O15504;P37198;Q8N1  
 F7;Q92621;Q8NFH5;Q9BW27}

4899 [Cluster 446]GO:0055007+P biological\_process [name] cardiac muscle cell  
 differentiation [def] "The process in which a cardiac muscle precursor cell acquires  
 specialized features of a cardiac muscle cell. Cardiac muscle cells are striated muscle  
 cells that are responsible for heart contraction." [GOC

4900 Pathogen[ Q2Q067] interacts with 4 human partners:{P15172;P27797;Q9Y3M2;Q9HB71}  
 4901 Pathogen[ P0C214] interacts with 4 human partners:{P15172;Q9Y3M2;P27797;Q9HB71}  
 4902 Pathogen[ P03346] interacts with 5 human  
 partners:{Q9Y3M2;P15172;Q9HB71;P27797;Q99593}

4903 Pathogen[ Q85601] interacts with 4 human partners:{P15172;Q9Y3M2;P27797;Q9HB71}  
 4904 Pathogen[ P14079] interacts with 2 human partners:{Q9HB71;Q9Y3M2}  
 4905 Pathogen[ P03383] interacts with 4 human partners:{P15172;Q9HB71;Q9Y3M2;P27797}  
 4906 Pathogen[ P03410] interacts with 3 human partners:{Q9HB71;Q9Y3M2;P27797}  
 4907 Pathogen[ P14075] interacts with 4 human partners:{P15172;P27797;Q9Y3M2;Q9HB71}  
 4908 Pathogen[ P0C206] interacts with 3 human partners:{Q9HB71;P27797;P15172}  
 4909 Pathogen[ P03363] interacts with 4 human partners:{Q9HB71;Q9Y3M2;P27797;P15172}

4910 [Cluster 447]GO:0050771+P biological\_process [name] negative regulation of  
 axonogenesis [def] "Any process that stops, prevents, or reduces the frequency, rate  
 or extent of axonogenesis." [GOC

4911 Pathogen[ Q2Q067] interacts with 1 human partners:{P61586}  
 4912 Pathogen[ P0C214] interacts with 3 human partners:{P31150;P61586;P52565}  
 4913 Pathogen[ P03346] interacts with 3 human partners:{P52565;P31150;P61586}  
 4914 Pathogen[ Q85601] interacts with 3 human partners:{P31150;P52565;P61586}  
 4915 Pathogen[ P14079] interacts with 4 human partners:{P52565;P31150;P02686;P61586}  
 4916 Pathogen[ P03383] interacts with 1 human partners:{P61586}  
 4917 Pathogen[ P03410] interacts with 5 human  
 partners:{P02686;P61586;Q9BZR6;P31150;P52565}

4918 Pathogen[ P14075] interacts with 1 human partners:{P61586}  
 4919 Pathogen[ P0C206] interacts with 3 human partners:{P52565;P61586;P31150}  
 4920 Pathogen[ P03363] interacts with 2 human partners:{P52565;P31150}

4921 [Cluster 448]GO:0006098+P biological\_process [name] pentose-phosphate shunt [def]  
 "The process in which glucose is oxidized, coupled to NADPH synthesis. Glucose 6-P is  
 oxidized with the formation of carbon dioxide (CO<sub>2</sub>), ribulose 5-phosphate and reduced  
 NADP\_ ribulose 5-P then enters a series of reactions interconverting sugar phosphates.  
 The pentose phosphate pathway is a major source of reducing equivalents for biosynthesis  
 reactions and is also important for the conversion of hexoses to pentoses." [ISBN

4922 Pathogen[ Q2Q067] interacts with 4 human partners:{O95336;P37837;P60174;P49247}  
 4923 Pathogen[ P0C214] interacts with 8 human  
 partners:{P52209;P11413;P29401;P37837;Q96AT9;O95336;P60174;P49247}

4924 Pathogen[ P03346] interacts with 4 human partners:{P49247;O95336;P60174;P37837}  
 4925 Pathogen[ Q85601] interacts with 4 human partners:{P60174;O95336;P37837;P49247}  
 4926 Pathogen[ P14079] interacts with 5 human  
 partners:{P52209;P49247;P29401;O95336;P37837}

4927 Pathogen[ P03383] interacts with 2 human partners:{P37837;P49247}  
 4928 Pathogen[ P03410] interacts with 4 human partners:{P37837;P52209;O95336;P49247}  
 4929 Pathogen[ P14075] interacts with 3 human partners:{O95336;P49247;P37837}

4930 Pathogen[ P0C206] interacts with 5 human  
 partners:{P60174;O95336;P49247;P37837;P29401}

4931 Pathogen[ P03363] interacts with 2 human partners:{P37837;O95336}

4932 [Cluster 449]GO:0006398+P biological\_process [name] histone mRNA 3'-end processing  
 [def] "Any process involved in forming the mature 3' end of a histone mRNA molecule."  
 [GOC

4933 Pathogen[ Q2Q067] interacts with 6 human  
 partners:{P83369;Q8WTR7;Q9Y534;Q9P2I0;Q9UKF6;Q14493}

4934 Pathogen[ P0C214] interacts with 6 human  
 partners:{P83369;Q9UKF6;Q9Y534;Q14493;Q9P2I0;Q8WTR7}

4935 Pathogen[ P03346] interacts with 6 human  
 partners:{Q9UKF6;Q8WTR7;Q9Y534;Q14493;P83369;Q9P2I0}

4936 Pathogen[ Q85601] interacts with 6 human  
 partners:{Q9Y534;Q9P2I0;P83369;Q8WTR7;Q9UKF6;Q14493}



4937 Pathogen[ P14079] interacts with 6 human partners: {Q8WTR7;Q9UKF6;P83369;Q9Y534;Q14493;Q9P2I0}

4938 Pathogen[ P03383] interacts with 6 human partners: {Q9UKF6;Q14493;Q8WTR7;Q9P2I0;Q9Y534;P83369}

4939 Pathogen[ P03410] interacts with 6 human partners: {Q9Y534;Q8WTR7;Q14493;Q9P2I0;P83369;Q9UKF6}

4940 Pathogen[ P14075] interacts with 6 human partners: {Q9P2I0;Q14493;Q8WTR7;P83369;Q9Y534;Q9UKF6}

4941 Pathogen[ POC206] interacts with 6 human partners: {Q9UKF6;Q8WTR7;Q9P2I0;P83369;Q14493;Q9Y534}

4942 Pathogen[ P03363] interacts with 6 human partners: {Q9P2I0;P83369;Q8WTR7;Q9UKF6;Q9Y534;Q14493}

4943 [Cluster 450]GO:0010586+P biological\_process [name] miRNA metabolic process [def] "The chemical reactions and pathways involving miRNA, microRNA, a class of single-stranded RNA molecules of about 21-23 nucleotides in length, which regulates gene expression." [PMID

4944 Pathogen[ Q2Q067] interacts with 4 human partners: {Q9NRR4;Q5TAX3;Q9H9Z2;Q7Z5W3}

4945 Pathogen[ POC214] interacts with 4 human partners: {Q7Z5W3;Q9NRR4;Q9H9Z2;Q5TAX3}

4946 Pathogen[ P03346] interacts with 4 human partners: {Q5TAX3;Q9NRR4;Q9H9Z2;Q7Z5W3}

4947 Pathogen[ Q85601] interacts with 4 human partners: {Q7Z5W3;Q9NRR4;Q5TAX3;Q9H9Z2}

4948 Pathogen[ P14079] interacts with 4 human partners: {Q9H9Z2;Q5TAX3;Q9NRR4;Q7Z5W3}

4949 Pathogen[ P03383] interacts with 4 human partners: {Q9NRR4;Q9H9Z2;Q5TAX3;Q7Z5W3}

4950 Pathogen[ P03410] interacts with 4 human partners: {Q5TAX3;Q9NRR4;Q7Z5W3;Q9H9Z2}

4951 Pathogen[ P14075] interacts with 4 human partners: {Q9H9Z2;Q5TAX3;Q7Z5W3;Q9NRR4}

4952 Pathogen[ POC206] interacts with 4 human partners: {Q7Z5W3;Q9H9Z2;Q9NRR4;Q5TAX3}

4953 Pathogen[ P03363] interacts with 4 human partners: {Q9H9Z2;Q9NRR4;Q5TAX3;Q7Z5W3}

4954 [Cluster 451]GO:0002526+P biological\_process [name] acute inflammatory response [def] "Inflammation which comprises a rapid, short-lived, relatively uniform response to acute injury or antigenic challenge and is characterized by accumulations of fluid, plasma proteins, and granulocytic leukocytes. An acute inflammatory response occurs within a matter of minutes or hours, and either resolves within a few days or becomes a chronic inflammatory response." [GO\_REF

4955 Pathogen[ Q2Q067] interacts with 3 human partners: {P09917;O60356;O15527}

4956 Pathogen[ POC214] interacts with 3 human partners: {P09917;O60356;O15527}

4957 Pathogen[ P03346] interacts with 3 human partners: {P09917;O60356;O15527}

4958 Pathogen[ Q85601] interacts with 3 human partners: {O15527;P09917;O60356}

4959 Pathogen[ P14079] interacts with 4 human partners: {P60022;O15527;P09917;O60356}

4960 Pathogen[ P03383] interacts with 2 human partners: {O15527;O60356}

4961 Pathogen[ P03410] interacts with 4 human partners: {P60022;O15527;O60356;P09917}

4962 Pathogen[ P14075] interacts with 2 human partners: {O15527;O60356}

4963 Pathogen[ POC206] interacts with 3 human partners: {P09917;O15527;O60356}

4964 Pathogen[ P03363] interacts with 2 human partners: {O15527;O60356}

4965 [Cluster 452]GO:2000233+P biological\_process [name] negative regulation of rRNA processing [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of rRNA processing." [GOC

4966 Pathogen[ Q2Q067] interacts with 1 human partners: {Q6PI26}

4967 Pathogen[ POC214] interacts with 1 human partners: {Q6PI26}

4968 Pathogen[ P03346] interacts with 1 human partners: {Q6PI26}

4969 Pathogen[ Q85601] interacts with 1 human partners: {Q6PI26}

4970 Pathogen[ P14079] interacts with 1 human partners: {Q6PI26}

4971 Pathogen[ P03383] interacts with 1 human partners: {Q6PI26}

4972 Pathogen[ P03410] interacts with 1 human partners: {Q6PI26}

4973 Pathogen[ P14075] interacts with 1 human partners: {Q6PI26}

4974 Pathogen[ POC206] interacts with 1 human partners: {Q6PI26}

4975 Pathogen[ P03363] interacts with 1 human partners: {Q6PI26}

4976 [Cluster 453]GO:0034616+P biological\_process [name] response to laminar fluid shear stress [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a laminar fluid shear stress stimulus. Laminar fluid flow is the force acting on an object in a system where the fluid is moving across a solid surface in parallel layers. As an example, laminar shear stress can be seen where blood flows against the luminal side of blood vessel walls." [GOC

4977 Pathogen[ Q2Q067] interacts with 3 human partners: {P14921;O15105;O43541}

4978 Pathogen[ POC214] interacts with 3 human partners: {P14921;O15105;O43541}

4979 Pathogen[ P03346] interacts with 4 human partners: {Q9Y5W3;O15105;P14921;O43541}

4980 Pathogen[ Q85601] interacts with 3 human partners: {P14921;O43541;O15105}

4981 Pathogen[ P14079] interacts with 3 human partners: {O43541;Q9Y5W3;O15105}

4982 Pathogen[ P03383] interacts with 3 human partners: {P14921;O15105;O43541}

4983 Pathogen[ P03410] interacts with 3 human partners: {O43541;O15105;P14921}

4984 Pathogen[ P14075] interacts with 3 human partners: {O43541;O15105;P14921}

4985 Pathogen[ POC206] interacts with 3 human partners: {O43541;P14921;O15105}

4986 Pathogen[ P03363] interacts with 3 human partners: {P14921;O15105;O43541}

4987 [Cluster 454]GO:0038061+P

4988 Pathogen[ Q2Q067] interacts with 2 human partners: {Q13490;P60510}

4989 Pathogen[ POC214] interacts with 3 human partners: {Q13490;Q14164;P60510}

4990 Pathogen[ P03346] interacts with 4 human partners: {Q13489;Q13490;Q14164;P60510}

4991 Pathogen[ Q85601] interacts with 3 human partners:{Q13490;Q14164;P60510}

4992 Pathogen[ P14079] interacts with 3 human partners:{Q14164;P60510;Q13490}

4993 Pathogen[ P03383] interacts with 2 human partners:{Q13490;P60510}

4994 Pathogen[ P03410] interacts with 2 human partners:{P60510;Q13490}

4995 Pathogen[ P14075] interacts with 2 human partners:{P60510;Q13490}

4996 Pathogen[ P0C206] interacts with 4 human partners:{Q14164;Q13489;P60510;Q13490}

4997 Pathogen[ P03363] interacts with 3 human partners:{Q13490;Q13489;P60510}

4998 [Cluster 455]GO:0044027+P biological\_process [name] hypermethylation of CpG island  
[def] "An increase in the epigenetic methylation of cytosine and adenosine residues in a CpG island in DNA. CpG islands are genomic regions that contain a high frequency of the CG dinucleotide and are often associated with the transcription start site of genes."  
[GOC

4999 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9Y6K1;P17947}

5000 Pathogen[ P0C214] interacts with 2 human partners:{P17947;Q9Y6K1}

5001 Pathogen[ P03346] interacts with 2 human partners:{Q9Y6K1;P17947}

5002 Pathogen[ Q85601] interacts with 2 human partners:{Q9Y6K1;P17947}

5003 Pathogen[ P14079] interacts with 1 human partners:{Q9Y6K1}

5004 Pathogen[ P03383] interacts with 2 human partners:{Q9Y6K1;P17947}

5005 Pathogen[ P03410] interacts with 2 human partners:{P17947;Q9Y6K1}

5006 Pathogen[ P14075] interacts with 2 human partners:{Q9Y6K1;P17947}

5007 Pathogen[ P0C206] interacts with 2 human partners:{Q9Y6K1;P17947}

5008 Pathogen[ P03363] interacts with 2 human partners:{P17947;Q9Y6K1}

5009 [Cluster 456]GO:0072014+P biological\_process [name] proximal tubule development  
[def] "The process whose specific outcome is the progression of the proximal tubule over time, from its formation to the mature structure. In mammals, the proximal tubule is a nephron tubule that connects Bowman's capsule to the descending thin limb of the loop of Henle. It has a brush border epithelial morphology." [GOC

5010 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NQ87}

5011 Pathogen[ P0C214] interacts with 1 human partners:{Q9NQ87}

5012 Pathogen[ P03346] interacts with 1 human partners:{Q9NQ87}

5013 Pathogen[ Q85601] interacts with 1 human partners:{Q9NQ87}

5014 Pathogen[ P14079] interacts with 1 human partners:{Q9NQ87}

5015 Pathogen[ P03383] interacts with 1 human partners:{Q9NQ87}

5016 Pathogen[ P03410] interacts with 1 human partners:{Q9NQ87}

5017 Pathogen[ P14075] interacts with 1 human partners:{Q9NQ87}

5018 Pathogen[ P0C206] interacts with 1 human partners:{Q9NQ87}

5019 Pathogen[ P03363] interacts with 1 human partners:{Q9NQ87}

5020 [Cluster 457]GO:2000774+P biological\_process [name] positive regulation of cellular senescence [def] "Any process that activates or increases the frequency, rate or extent of cellular senescence." [GOC

5021 Pathogen[ Q2Q067] interacts with 2 human partners:{P42771;P17096}

5022 Pathogen[ P0C214] interacts with 2 human partners:{P17096;P42771}

5023 Pathogen[ P03346] interacts with 2 human partners:{P42771;P17096}

5024 Pathogen[ Q85601] interacts with 2 human partners:{P17096;P42771}

5025 Pathogen[ P14079] interacts with 2 human partners:{P17096;P42771}

5026 Pathogen[ P03383] interacts with 2 human partners:{P17096;P42771}

5027 Pathogen[ P03410] interacts with 2 human partners:{P42771;P17096}

5028 Pathogen[ P14075] interacts with 2 human partners:{P17096;P42771}

5029 Pathogen[ P0C206] interacts with 2 human partners:{P42771;P17096}

5030 Pathogen[ P03363] interacts with 2 human partners:{P17096;P42771}

5031 [Cluster 458]GO:0008585+P biological\_process [name] female gonad development [def] "The process whose specific outcome is the progression of the female gonad over time, from its formation to the mature structure." [GOC

5032 Pathogen[ Q2Q067] interacts with 2 human partners:{Q14865;O15360}

5033 Pathogen[ P0C214] interacts with 2 human partners:{Q14865;O15360}

5034 Pathogen[ P03346] interacts with 9 human partners:{O15360;Q9NQ69;A6NF36;P51587;Q14865;Q9HB21;Q96MM3;Q68G74;Q13285}

5035 Pathogen[ Q85601] interacts with 4 human partners:{Q9HB21;Q14865;O15360;P51587}

5036 Pathogen[ P14079] interacts with 5 human partners:{A6NF36;Q14865;P51587;Q9HB21;O15360}

5037 Pathogen[ P03383] interacts with 2 human partners:{A6NF36;O15360}

5038 Pathogen[ P03410] interacts with 5 human partners:{A6NF36;Q9HB21;P51587;O15360;Q14865}

5039 Pathogen[ P14075] interacts with 2 human partners:{O15360;A6NF36}

5040 Pathogen[ P0C206] interacts with 7 human partners:{O15360;Q96MM3;P51587;Q68G74;Q9HB21;Q14865;A6NF36}

5041 Pathogen[ P03363] interacts with 5 human partners:{Q14865;O15360;P19883;Q96MM3;A6NF36}

5042 [Cluster 459]GO:0007043+P biological\_process [name] cell-cell junction assembly  
[def] "The aggregation, arrangement and bonding together of a set of components to form a junction between cells." [GOC

5043 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9BYG5;Q07157;Q8WUI4}

5044 Pathogen[ P0C214] interacts with 3 human partners:{Q9BYG5;Q8WUI4;Q07157}

5045 Pathogen[ P03346] interacts with 4 human partners:{Q9BYG5;Q9Y4G6;Q07157;Q8WUI4}

5046 Pathogen[ Q85601] interacts with 3 human partners:{Q9BYG5;Q07157;Q8WUI4}

5047 Pathogen[ P14079] interacts with 4 human partners:{Q9BYG5;Q07157;Q8WUI4;Q9Y4G6}

5048 Pathogen[ P03383] interacts with 3 human partners:{Q07157;Q9BYG5;Q8WUI4}

5049 Pathogen[ P03410] interacts with 4 human partners:{Q8WUI4;Q07157;Q9Y4G6;Q9BYG5}

5050 Pathogen[ P14075] interacts with 3 human partners:{Q07157;Q9BYG5;Q8WUI4}

5051 Pathogen[ P0C206] interacts with 3 human partners:{Q9BYG5;Q8WUI4;Q07157}

5052 Pathogen[ P03363] interacts with 4 human partners:{Q07157;Q9Y4G6;Q9BYG5;Q8WUI4}

5053 [Cluster 460]GO:0033601+P biological\_process [name] positive regulation of mammary gland epithelial cell proliferation [def] "Any process that activates or increases the rate or extent of mammary gland epithelial cell proliferation." [GOC

5054 Pathogen[ Q2Q067] interacts with 2 human partners:{P24385;Q9H7S9}

5055 Pathogen[ P0C214] interacts with 2 human partners:{P24385;Q9H7S9}

5056 Pathogen[ P03346] interacts with 2 human partners:{P24385;Q9H7S9}

5057 Pathogen[ Q85601] interacts with 2 human partners:{P24385;Q9H7S9}

5058 Pathogen[ P14079] interacts with 1 human partners:{Q9H7S9}

5059 Pathogen[ P03383] interacts with 2 human partners:{P24385;Q9H7S9}

5060 Pathogen[ P03410] interacts with 2 human partners:{P24385;Q9H7S9}

5061 Pathogen[ P14075] interacts with 2 human partners:{P24385;Q9H7S9}

5062 Pathogen[ P0C206] interacts with 2 human partners:{Q9H7S9;P24385}

5063 Pathogen[ P03363] interacts with 2 human partners:{Q9H7S9;P24385}

5064 [Cluster 461]GO:0016079+P biological\_process [name] synaptic vesicle exocytosis [def] "Fusion of intracellular membrane-bounded vesicles with the pre-synaptic membrane of the neuronal cell resulting in release of neurotransmitter into the synaptic cleft." [GOC

5065 Pathogen[ Q2Q067] interacts with 1 human partners:{O95295}

5066 Pathogen[ P0C214] interacts with 1 human partners:{O95295}

5067 Pathogen[ P03346] interacts with 1 human partners:{O95295}

5068 Pathogen[ Q85601] interacts with 1 human partners:{O95295}

5069 Pathogen[ P14079] interacts with 4 human partners:{O14810;Q6PUV4;O95295;Q8WVH0}

5070 Pathogen[ P03383] interacts with 1 human partners:{O95295}

5071 Pathogen[ P03410] interacts with 4 human partners:{O14810;Q8WVH0;O95295;Q6PUV4}

5072 Pathogen[ P14075] interacts with 1 human partners:{O95295}

5073 Pathogen[ P0C206] interacts with 2 human partners:{Q6PUV4;O95295}

5074 Pathogen[ P03363] interacts with 1 human partners:{O95295}

5075 [Cluster 462]GO:0043312+P biological\_process [name] neutrophil degranulation [def] "The regulated exocytosis of secretory granules containing preformed mediators such as proteases, lipases, and inflammatory mediators by a neutrophil." [ISBN

5076 Pathogen[ Q2Q067] interacts with 2 human partners:{O00186;Q15833}

5077 Pathogen[ P0C214] interacts with 2 human partners:{Q15833;O00186}

5078 Pathogen[ P03346] interacts with 2 human partners:{Q15833;O00186}

5079 Pathogen[ Q85601] interacts with 2 human partners:{O00186;Q15833}

5080 Pathogen[ P14079] interacts with 2 human partners:{O00186;Q15833}

5081 Pathogen[ P03383] interacts with 1 human partners:{O00186}

5082 Pathogen[ P03410] interacts with 2 human partners:{Q15833;O00186}

5083 Pathogen[ P14075] interacts with 1 human partners:{O00186}

5084 Pathogen[ P0C206] interacts with 2 human partners:{Q15833;O00186}

5085 Pathogen[ P03363] interacts with 2 human partners:{O00186;Q15833}

5086 [Cluster 463]GO:0016998+P biological\_process [name] cell wall macromolecule catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of macromolecules that form part of a cell wall." [GOC

5087 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8NI08}

5088 Pathogen[ P0C214] interacts with 2 human partners:{Q8N573;Q8NI08}

5089 Pathogen[ P03346] interacts with 2 human partners:{Q8N573;Q8NI08}

5090 Pathogen[ Q85601] interacts with 1 human partners:{Q8NI08}

5091 Pathogen[ P14079] interacts with 5 human partners:{Q8N573;Q8IV50;Q96S90;Q8NI08;Q5XG99}

5092 Pathogen[ P03383] interacts with 1 human partners:{Q8NI08}

5093 Pathogen[ P03410] interacts with 3 human partners:{Q8NI08;Q8N573;Q8IV50}

5094 Pathogen[ P14075] interacts with 1 human partners:{Q8NI08}

5095 Pathogen[ P0C206] interacts with 2 human partners:{Q8NI08;Q8N573}

5096 Pathogen[ P03363] interacts with 1 human partners:{Q8NI08}

5097 [Cluster 464]GO:0006924+P biological\_process [name] activation-induced cell death of T cells [def] "A type of T cell apoptosis that occurs towards the end of the expansion phase following the initial activation of mature T cells by antigen and is triggered by T cell receptor stimulation and signals transmitted via various surface-expressed members of the TNF receptor family such as Fas ligand, Fas, and TNF and the p55 and p75 TNF receptors." [GOC

5098 Pathogen[ Q2Q067] interacts with 4 human partners:{P31749;O15304;Q53G26;Q96EY1}

5099 Pathogen[ P0C214] interacts with 4 human partners:{Q53G26;O15304;Q96EY1;P31749}

5100 Pathogen[ P03346] interacts with 4 human partners:{O15304;P31749;Q53G26;Q96EY1}

5101 Pathogen[ Q85601] interacts with 4 human partners:{P31749;Q53G26;O15304;Q96EY1}

5102 Pathogen[ P14079] interacts with 2 human partners:{O15304;Q96EY1}

5103 Pathogen[ P03383] interacts with 4 human partners:{O15304;P31749;Q96EY1;Q53G26}

5104 Pathogen[ P03410] interacts with 4 human partners:{Q53G26;P31749;Q96EY1;O15304}

5105 Pathogen[ P14075] interacts with 4 human partners:{Q53G26;O15304;P31749;Q96EY1}

5106 Pathogen[ P0C206] interacts with 4 human partners:{P31749;Q53G26;Q96EY1;O15304}

5107 Pathogen[ P03363] interacts with 4 human partners:{O15304;Q53G26;P31749;Q96EY1}

5108 [Cluster 465]GO:0045214+P biological\_process [name] sarcomere organization [def]

"The myofibril assembly process that results in the organization of muscle actomyosin into sarcomeres. The sarcomere is the repeating unit of a myofibril in a muscle cell, composed of an array of overlapping thick and thin filaments between two adjacent Z discs." [GOC

5109 Pathogen[ Q2Q067] interacts with 4 human partners:{P11831;P08727;Q15327;Q86TC9}

5110 Pathogen[ P0C214] interacts with 7 human partners:{Q15327;P11831;Q86TC9;P08727;Q2V2M9;P13533;P63261}

5111 Pathogen[ P03346] interacts with 5 human partners:{Q86TC9;P08727;P11831;Q15327;Q2V2M9}

5112 Pathogen[ Q85601] interacts with 7 human partners:{Q86TC9;P11831;P13533;Q2V2M9;P63261;Q15327;P08727}

5113 Pathogen[ P14079] interacts with 8 human partners:{P63261;Q86TC9;Q702N8;Q15327;Q2V2M9;P08727;O15273;Q9BR09}

5114 Pathogen[ P03383] interacts with 3 human partners:{P11831;P08727;Q15327}

5115 Pathogen[ P03410] interacts with 10 human partners:{P11831;Q702N8;Q9BR09;Q15327;O15273;Q2V2M9;P63261;P13533;P08727;Q86TC9}

5116 Pathogen[ P14075] interacts with 3 human partners:{P08727;P11831;Q15327}

5117 Pathogen[ P0C206] interacts with 8 human partners:{Q86TC9;P13533;P08727;Q15327;Q2V2M9;P63261;Q9BR09;P11831}

5118 Pathogen[ P03363] interacts with 7 human partners:{Q86TC9;Q9BR09;Q15327;P08727;P11831;Q2V2M9;P63261}

5119 [Cluster 466]GO:0035545+P biological\_process [name] determination of left/right asymmetry in nervous system [def] "The establishment of the nervous system with respect to the left and right halves." [GOC

5120 Pathogen[ Q2Q067] interacts with 1 human partners:{O60481}

5121 Pathogen[ P0C214] interacts with 1 human partners:{O60481}

5122 Pathogen[ P03346] interacts with 1 human partners:{O60481}

5123 Pathogen[ Q85601] interacts with 1 human partners:{O60481}

5124 Pathogen[ P14079] interacts with 1 human partners:{O60481}

5125 Pathogen[ P03383] interacts with 1 human partners:{O60481}

5126 Pathogen[ P03410] interacts with 1 human partners:{O60481}

5127 Pathogen[ P14075] interacts with 1 human partners:{O60481}

5128 Pathogen[ P0C206] interacts with 1 human partners:{O60481}

5129 Pathogen[ P03363] interacts with 1 human partners:{O60481}

5130 [Cluster 467]GO:0035494+P biological\_process [name] SNARE complex disassembly [def] "The disaggregation of the SNARE protein complex into its constituent components. The SNARE complex is a protein complex involved in membrane fusion\_ a stable ternary complex consisting of a four-helix bundle, usually formed from one R-SNARE and three Q-SNAREs with an ionic layer sandwiched between hydrophobic layers." [GOC

5131 Pathogen[ Q2Q067] interacts with 1 human partners:{P54920}

5132 Pathogen[ P0C214] interacts with 1 human partners:{P54920}

5133 Pathogen[ P03346] interacts with 2 human partners:{Q9H115;P54920}

5134 Pathogen[ Q85601] interacts with 1 human partners:{P54920}

5135 Pathogen[ P14079] interacts with 2 human partners:{Q9H115;P54920}

5136 Pathogen[ P03383] interacts with 1 human partners:{P54920}

5137 Pathogen[ P03410] interacts with 2 human partners:{Q9H115;P54920}

5138 Pathogen[ P14075] interacts with 1 human partners:{P54920}

5139 Pathogen[ P0C206] interacts with 1 human partners:{P54920}

5140 Pathogen[ P03363] interacts with 1 human partners:{P54920}

5141 [Cluster 468]GO:0045872+P biological\_process [name] positive regulation of rhodopsin gene expression [def] "Any process that activates or increases the frequency, rate or extent of rhodopsin gene expression." [GOC

5142 Pathogen[ Q2Q067] interacts with 1 human partners:{P54845}

5143 Pathogen[ P0C214] interacts with 1 human partners:{P54845}

5144 Pathogen[ P03346] interacts with 1 human partners:{P54845}

5145 Pathogen[ Q85601] interacts with 1 human partners:{P54845}

5146 Pathogen[ P14079] interacts with 1 human partners:{P54845}

5147 Pathogen[ P03383] interacts with 1 human partners:{P54845}

5148 Pathogen[ P03410] interacts with 1 human partners:{P54845}

5149 Pathogen[ P14075] interacts with 1 human partners:{P54845}

5150 Pathogen[ P0C206] interacts with 1 human partners:{P54845}

5151 Pathogen[ P03363] interacts with 1 human partners:{P54845}

5152 [Cluster 469]GO:0051707+P biological\_process [name] response to other organism [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a stimulus from another living organism." [GOC

5153 Pathogen[ Q2Q067] interacts with 1 human partners:{Q14457}

5154 Pathogen[ P0C214] interacts with 1 human partners:{Q14457}

5155 Pathogen[ P03346] interacts with 1 human partners:{Q14457}

5156 Pathogen[ Q85601] interacts with 1 human partners:{Q14457}

5157 Pathogen[ P14079] interacts with 1 human partners:{Q14457}

5158 Pathogen[ P03383] interacts with 1 human partners:{Q14457}

5159 Pathogen[ P03410] interacts with 1 human partners:{Q14457}

5160 Pathogen[ P14075] interacts with 1 human partners:{Q14457}

5161 Pathogen[ P0C206] interacts with 1 human partners:{Q14457}

5162 Pathogen[ P03363] interacts with 1 human partners:{Q14457}

5163 [Cluster 470]GO:0050852+P biological\_process [name] T cell receptor signaling pathway [def] "A series of molecular signals initiated by the cross-linking of an antigen receptor on a T cell." [GOC

5164 Pathogen[ Q2Q067] interacts with 25 human partners: {Q9UDY8;Q04206;Q9NYJ8;O95999;P56945;Q86WV1;O15117;Q9Y6K9;P61088;Q13094;P16333;P19838;Q8N1K5;P42768;P25963;POCG47;O14920;POCG48;O75791;O43318;P27986;P62987;Q13404;O15111;P62979}

5165 Pathogen[ P0C214] interacts with 25 human partners: {O15117;O15111;Q9Y6K9;P56945;P19838;Q9UDY8;Q04206;Q13404;Q13094;O43318;POCG48;O95999;P25963;P62987;P16333;Q86WV1;POCG47;O75791;P62979;P42768;P27986;Q8N1K5;O14920;Q9NYJ8;P61088}

5166 Pathogen[ P03346] interacts with 28 human partners: {Q9Y6K9;O15111;P42768;P62987;P25963;Q9BYM8;Q9UDY8;POCG48;Q04206;Q13404;O95999;P61088;P16333;Q96EP0;P56945;Q9NYJ8;Q13094;P62979;POCG47;P19838;O14920;O43318;O15117;Q9Y2R2;Q8N1K5;Q86WV1;P27986;O75791}

5167 Pathogen[ Q85601] interacts with 25 human partners: {Q9NYJ8;O15111;Q9UDY8;P16333;POCG48;Q13404;P27986;Q86WV1;Q9Y6K9;O15117;P56945;Q8N1K5;O14920;Q04206;P42768;P62979;POCG47;P62987;O95999;O43318;P61088;P19838;Q13094;O75791;P25963}

5168 Pathogen[ P14079] interacts with 20 human partners: {Q9BXL7;Q86WV1;POCG48;O95999;Q13404;Q13094;Q96EP0;P62979;P62987;P50552;O15117;O75791;Q9Y6K9;P16333;Q9BYM8;O43561;Q8N1K5;POCG47;Q6PIZ9;P42768}

5169 Pathogen[ P03383] interacts with 24 human partners: {P27986;P56945;O75791;Q9Y6K9;P62987;O14920;O15111;Q86WV1;O15117;O43318;P61088;Q8N1K5;Q13404;P42768;P25963;Q13094;O95999;P62979;POCG47;Q04206;POCG48;Q9NYJ8;P16333;P19838}

5170 Pathogen[ P03410] interacts with 29 human partners: {Q04206;P19838;Q13094;P27986;POCG48;O14920;Q86WV1;P20963;Q6PIZ9;O15111;O43561;P42768;P16333;P61088;P62979;Q8N1K5;O43318;P50552;O95999;Q9BXL7;Q9NYJ8;O15117;P62987;P56945;Q13404;Q9Y6K9;P25963;POCG47;O75791}

5171 Pathogen[ P14075] interacts with 24 human partners: {O15111;Q04206;O75791;P61088;P42768;O15117;P25963;P16333;Q86WV1;O14920;POCG48;P62979;Q8N1K5;O43318;P27986;P62987;O95999;Q13094;POCG47;Q13404;P19838;Q9Y6K9;P56945;Q9NYJ8}

5172 Pathogen[ P0C206] interacts with 28 human partners: {POCG48;O14920;Q9Y6K9;Q9UDY8;Q8N1K5;O95999;P25963;O43318;Q9Y2R2;O75791;P27986;P61088;P19838;Q96EP0;Q04206;Q86WV1;O15111;P62979;Q9NYJ8;POCG47;P16333;P56945;P62987;Q13404;Q13094;P42768;Q9BYM8;O15117}

5173 Pathogen[ P03363] interacts with 22 human partners: {O14920;Q04206;Q9Y2R2;Q86WV1;Q96EP0;P25963;O15111;Q9NYJ8;P42768;Q9Y6K9;Q8N1K5;O43318;O75791;P61088;O15117;P16333;P62987;P19838;P56945;Q13404;P27986;Q13094}

5174 [Cluster 471]GO:0006065+P biological\_process [name] UDP-glucuronate biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of UDP-glucuronate, a substance composed of glucuronic acid in glycosidic linkage with uridine diphosphate." [GOC

5175 Pathogen[ Q2Q067] interacts with 1 human partners: {Q16851}

5176 Pathogen[ P0C214] interacts with 1 human partners: {Q16851}

5177 Pathogen[ P03346] interacts with 1 human partners: {Q16851}

5178 Pathogen[ Q85601] interacts with 1 human partners: {Q16851}

5179 Pathogen[ P14079] interacts with 1 human partners: {Q16851}

5180 Pathogen[ P03383] interacts with 1 human partners: {Q16851}

5181 Pathogen[ P03410] interacts with 1 human partners: {Q16851}

5182 Pathogen[ P14075] interacts with 1 human partners: {Q16851}

5183 Pathogen[ P0C206] interacts with 1 human partners: {Q16851}

5184 Pathogen[ P03363] interacts with 1 human partners: {Q16851}

5185 [Cluster 472]GO:0019919+P biological\_process [name] peptidyl-arginine methylation, to asymmetrical-dimethyl arginine [def] "The process of methylation of peptidyl-arginine to form peptidyl-N(omega),N(omega)-dimethyl-L-arginine." [RESID

5186 Pathogen[ Q2Q067] interacts with 3 human partners: {Q96LA8;Q9NR22;Q86X55}

5187 Pathogen[ P0C214] interacts with 3 human partners: {Q86X55;Q9NR22;Q96LA8}

5188 Pathogen[ P03346] interacts with 3 human partners: {Q9NR22;Q86X55;Q96LA8}

5189 Pathogen[ Q85601] interacts with 3 human partners: {Q9NR22;Q86X55;Q96LA8}

5190 Pathogen[ P14079] interacts with 3 human partners: {Q9NR22;Q96LA8;O60678}

5191 Pathogen[ P03383] interacts with 3 human partners: {Q86X55;Q9NR22;Q96LA8}

5192 Pathogen[ P03410] interacts with 3 human partners: {Q96LA8;Q86X55;Q9NR22}

5193 Pathogen[ P14075] interacts with 3 human partners: {Q9NR22;Q96LA8;Q86X55}

5194 Pathogen[ P0C206] interacts with 4 human partners: {Q86X55;Q96LA8;Q9NR22;O60678}

5195 Pathogen[ P03363] interacts with 3 human partners: {Q96LA8;Q9NR22;Q86X55}

5196 [Cluster 473]GO:0022417+P biological\_process [name] protein maturation by protein folding [def] "The process of assisting in the covalent and noncovalent assembly of single chain polypeptides or multisubunit complexes into the correct tertiary structure that results in the attainment of the full functional capacity of a protein." [GOC

5197 Pathogen[ Q2Q067] interacts with 2 human partners: {O00170;P27797}

5198 Pathogen[ P0C214] interacts with 2 human partners: {O00170;P27797}

5199 Pathogen[ P03346] interacts with 2 human partners: {O00170;P27797}

5200 Pathogen[ Q85601] interacts with 2 human partners: {P27797;O00170}

5201 Pathogen[ P14079] interacts with 1 human partners:{000170}

5202 Pathogen[ P03383] interacts with 2 human partners:{000170;P27797}

5203 Pathogen[ P03410] interacts with 2 human partners:{000170;P27797}

5204 Pathogen[ P14075] interacts with 2 human partners:{000170;P27797}

5205 Pathogen[ P0C206] interacts with 2 human partners:{P27797;000170}

5206 Pathogen[ P03363] interacts with 2 human partners:{P27797;000170}

5207 [Cluster 474]GO:0010226+P biological\_process [name] response to lithium ion [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a lithium (Li+) ion stimulus." [GOC

5208 Pathogen[ Q2Q067] interacts with 1 human partners:{Q99933}

5209 Pathogen[ P0C214] interacts with 2 human partners:{P68133;Q99933}

5210 Pathogen[ P03346] interacts with 1 human partners:{Q99933}

5211 Pathogen[ Q85601] interacts with 2 human partners:{P68133;Q99933}

5212 Pathogen[ P14079] interacts with 2 human partners:{Q99933;P68133}

5213 Pathogen[ P03383] interacts with 1 human partners:{Q99933}

5214 Pathogen[ P03410] interacts with 2 human partners:{Q99933;P68133}

5215 Pathogen[ P14075] interacts with 1 human partners:{Q99933}

5216 Pathogen[ P0C206] interacts with 2 human partners:{Q99933;P68133}

5217 Pathogen[ P03363] interacts with 2 human partners:{P68133;Q99933}

5218 [Cluster 475]GO:0050872+P biological\_process [name] white fat cell differentiation [def] "The process in which a relatively unspecialized cell acquires specialized features of a white adipocyte, an animal connective tissue cell involved in energy storage. White adipocytes have cytoplasmic lipids arranged in a unique vacuole." [PMID

5219 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9HAZ2;Q13363;P49715}

5220 Pathogen[ P0C214] interacts with 2 human partners:{Q13363;Q9HAZ2}

5221 Pathogen[ P03346] interacts with 4 human partners:{P49715;Q13363;P56545;Q9HAZ2}

5222 Pathogen[ Q85601] interacts with 3 human partners:{Q13363;P49715;Q9HAZ2}

5223 Pathogen[ P14079] interacts with 3 human partners:{Q9HAZ2;Q0VDE8;P49715}

5224 Pathogen[ P03383] interacts with 2 human partners:{Q9HAZ2;Q13363}

5225 Pathogen[ P03410] interacts with 2 human partners:{Q9HAZ2;Q0VDE8}

5226 Pathogen[ P14075] interacts with 3 human partners:{Q9HAZ2;Q0VDE8;Q13363}

5227 Pathogen[ P0C206] interacts with 4 human partners:{Q9HAZ2;Q0VDE8;P49715;Q13363}

5228 Pathogen[ P03363] interacts with 4 human partners:{Q0VDE8;P56545;Q13363;Q9HAZ2}

5229 [Cluster 476]GO:0003162+P biological\_process [name] atrioventricular node development [def] "The process whose specific outcome is the progression of the atrioventricular (AV) node over time, from its formation to the mature structure. The AV node is part of the cardiac conduction system that controls the timing of ventricle contraction by receiving electrical signals from the sinoatrial (SA) node and relaying them to the His-Purkinje system." [GOC

5230 Pathogen[ Q2Q067] interacts with 1 human partners:{Q92585}

5231 Pathogen[ P0C214] interacts with 1 human partners:{Q92585}

5232 Pathogen[ P03346] interacts with 1 human partners:{Q92585}

5233 Pathogen[ Q85601] interacts with 1 human partners:{Q92585}

5234 Pathogen[ P14079] interacts with 1 human partners:{Q92585}

5235 Pathogen[ P03383] interacts with 1 human partners:{Q92585}

5236 Pathogen[ P03410] interacts with 1 human partners:{Q92585}

5237 Pathogen[ P14075] interacts with 1 human partners:{Q92585}

5238 Pathogen[ P0C206] interacts with 1 human partners:{Q92585}

5239 Pathogen[ P03363] interacts with 1 human partners:{Q92585}

5240 [Cluster 477]GO:0032526+P biological\_process [name] response to retinoic acid [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a retinoic acid stimulus." [GOC

5241 Pathogen[ Q2Q067] interacts with 4 human partners:{P36956;Q9NVR5;P23497;Q8IXJ9}

5242 Pathogen[ P0C214] interacts with 3 human partners:{Q9NVR5;Q8IXJ9;P23497}

5243 Pathogen[ P03346] interacts with 8 human partners:{Q15788;P55273;P36956;P48443;Q9NVR5;O95361;P23497;Q8IXJ9}

5244 Pathogen[ Q85601] interacts with 4 human partners:{P55273;Q8IXJ9;P36956;Q9NVR5}

5245 Pathogen[ P14079] interacts with 11 human partners:{Q9NVR5;O14828;Q8WZ82;Q8IXJ9;P48443;P23497;P55273;P11686;Q15788;O95361;P36956}

5246 Pathogen[ P03383] interacts with 3 human partners:{Q8IXJ9;P23497;Q9NVR5}

5247 Pathogen[ P03410] interacts with 7 human partners:{P36956;O14828;P55273;Q9NVR5;P11686;Q8WZ82;Q8IXJ9}

5248 Pathogen[ P14075] interacts with 3 human partners:{P23497;Q8IXJ9;Q9NVR5}

5249 Pathogen[ P0C206] interacts with 9 human partners:{O14828;P36956;Q9NVR5;Q8IXJ9;O95361;P55273;Q8WZ82;Q15788;P48443}

5250 Pathogen[ P03363] interacts with 4 human partners:{Q8IXJ9;Q9NVR5;P23497;Q8WZ82}

5251 [Cluster 478]GO:0045590+P biological\_process [name] negative regulation of regulatory T cell differentiation [def] "Any process that stops, prevents, or reduces the rate of differentiation of regulatory T cells." [ISBN

5252 Pathogen[ Q2Q067] interacts with 1 human partners:{P10914}

5253 Pathogen[ P0C214] interacts with 1 human partners:{P10914}

5254 Pathogen[ P03346] interacts with 1 human partners:{P10914}

5255 Pathogen[ Q85601] interacts with 1 human partners:{P10914}

5256 Pathogen[ P14079] interacts with 1 human partners:{P10914}  
5257 Pathogen[ P03383] interacts with 1 human partners:{P10914}  
5258 Pathogen[ P03410] interacts with 1 human partners:{P10914}  
5259 Pathogen[ P14075] interacts with 1 human partners:{P10914}  
5260 Pathogen[ P0C206] interacts with 1 human partners:{P10914}  
5261 Pathogen[ P03363] interacts with 1 human partners:{P10914}  
5262 [Cluster 479]GO:2000191+P biological\_process [name] regulation of fatty acid transport [def] "Any process that modulates the frequency, rate or extent of fatty acid transport." [GOC  
5263 Pathogen[ Q2Q067] interacts with 1 human partners:{075376}  
5264 Pathogen[ P0C214] interacts with 1 human partners:{075376}  
5265 Pathogen[ P03346] interacts with 1 human partners:{075376}  
5266 Pathogen[ Q85601] interacts with 1 human partners:{075376}  
5267 Pathogen[ P14079] interacts with 1 human partners:{075376}  
5268 Pathogen[ P03383] interacts with 1 human partners:{075376}  
5269 Pathogen[ P03410] interacts with 1 human partners:{075376}  
5270 Pathogen[ P14075] interacts with 1 human partners:{075376}  
5271 Pathogen[ P0C206] interacts with 1 human partners:{075376}  
5272 Pathogen[ P03363] interacts with 1 human partners:{075376}  
5273 [Cluster 480]GO:0034184+P biological\_process [name] positive regulation of maintenance of mitotic sister chromatid cohesion [def] "Any process that increases the extent to which the association between sister chromatids of a replicated chromosome is maintained during a mitotic cell cycle." [GOC  
5274 Pathogen[ Q2Q067] interacts with 2 human partners:{Q8IY18;Q96MF7}  
5275 Pathogen[ P0C214] interacts with 2 human partners:{Q8IY18;Q96MF7}  
5276 Pathogen[ P03346] interacts with 2 human partners:{Q96MF7;Q8IY18}  
5277 Pathogen[ Q85601] interacts with 2 human partners:{Q8IY18;Q96MF7}  
5278 Pathogen[ P14079] interacts with 2 human partners:{Q96MF7;Q8IY18}  
5279 Pathogen[ P03383] interacts with 1 human partners:{Q96MF7}  
5280 Pathogen[ P03410] interacts with 2 human partners:{Q96MF7;Q8IY18}  
5281 Pathogen[ P14075] interacts with 1 human partners:{Q96MF7}  
5282 Pathogen[ P0C206] interacts with 2 human partners:{Q96MF7;Q8IY18}  
5283 Pathogen[ P03363] interacts with 2 human partners:{Q8IY18;Q96MF7}  
5284 [Cluster 481]GO:0090232+P biological\_process [name] positive regulation of spindle checkpoint [def] "Any process that increases the rate, frequency, or extent of the spindle checkpoint, a cell cycle checkpoint that delays the metaphase/anaphase transition until the spindle is correctly assembled and oriented, and chromosomes are attached to the spindle." [GOC  
5285 Pathogen[ Q2Q067] interacts with 1 human partners:{Q92597}  
5286 Pathogen[ P0C214] interacts with 1 human partners:{Q92597}  
5287 Pathogen[ P03346] interacts with 1 human partners:{Q92597}  
5288 Pathogen[ Q85601] interacts with 1 human partners:{Q92597}  
5289 Pathogen[ P14079] interacts with 1 human partners:{Q92597}  
5290 Pathogen[ P03383] interacts with 1 human partners:{Q92597}  
5291 Pathogen[ P03410] interacts with 1 human partners:{Q92597}  
5292 Pathogen[ P14075] interacts with 1 human partners:{Q92597}  
5293 Pathogen[ P0C206] interacts with 1 human partners:{Q92597}  
5294 Pathogen[ P03363] interacts with 1 human partners:{Q92597}  
5295 [Cluster 482]GO:1900025+P  
5296 Pathogen[ Q2Q067] interacts with 2 human partners:{Q63HQ0;Q14678}  
5297 Pathogen[ P0C214] interacts with 2 human partners:{Q14678;Q63HQ0}  
5298 Pathogen[ P03346] interacts with 2 human partners:{Q14678;Q63HQ0}  
5299 Pathogen[ Q85601] interacts with 2 human partners:{Q63HQ0;Q14678}  
5300 Pathogen[ P14079] interacts with 2 human partners:{Q63HQ0;Q14678}  
5301 Pathogen[ P03383] interacts with 2 human partners:{Q14678;Q63HQ0}  
5302 Pathogen[ P03410] interacts with 2 human partners:{Q14678;Q63HQ0}  
5303 Pathogen[ P14075] interacts with 2 human partners:{Q63HQ0;Q14678}  
5304 Pathogen[ P0C206] interacts with 2 human partners:{Q63HQ0;Q14678}  
5305 Pathogen[ P03363] interacts with 2 human partners:{Q63HQ0;Q14678}  
5306 [Cluster 483]GO:0002091+P biological\_process [name] negative regulation of receptor internalization [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of receptor internalization." [GOC  
5307 Pathogen[ Q2Q067] interacts with 1 human partners:{Q99700}  
5308 Pathogen[ P0C214] interacts with 1 human partners:{Q99700}  
5309 Pathogen[ P03346] interacts with 1 human partners:{Q99700}  
5310 Pathogen[ Q85601] interacts with 1 human partners:{Q99700}  
5311 Pathogen[ P14079] interacts with 1 human partners:{Q99700}  
5312 Pathogen[ P03383] interacts with 1 human partners:{Q99700}  
5313 Pathogen[ P03410] interacts with 1 human partners:{Q99700}  
5314 Pathogen[ P14075] interacts with 1 human partners:{Q99700}  
5315 Pathogen[ P0C206] interacts with 1 human partners:{Q99700}  
5316 Pathogen[ P03363] interacts with 1 human partners:{Q99700}  
5317 [Cluster 484]GO:0006303+P biological\_process [name] double-strand break repair via nonhomologous end joining [def] "The repair of a double-strand break in DNA in which the two broken ends are rejoined with little or no sequence complementarity. Information at the DNA ends may be lost due to the modification of broken DNA ends." [PMID

5318 Pathogen[ Q2Q067] interacts with 8 human partners:{Q8IY18;P49959;Q9H9Q4;Q13426;P12956;O76064;Q96MF7;P13010}

5319 Pathogen[ POC214] interacts with 9 human partners:{Q8IY18;Q9H9Q4;P49959;P13010;Q13426;Q96MF7;P40692;O76064;P12956}

5320 Pathogen[ P03346] interacts with 8 human partners:{O76064;P12956;Q96MF7;Q13426;P13010;P49959;Q9H9Q4;Q8IY18}

5321 Pathogen[ Q85601] interacts with 9 human partners:{Q8IY18;Q13426;P49959;O76064;P40692;Q9H9Q4;P13010;P12956;Q96MF7}

5322 Pathogen[ P14079] interacts with 9 human partners:{Q96MF7;Q9H9Q4;P13010;P40692;O00487;P12956;Q8IY18;Q13426;P49917}

5323 Pathogen[ P03383] interacts with 5 human partners:{P13010;Q9H9Q4;Q96MF7;Q13426;P12956}

5324 Pathogen[ P03410] interacts with 8 human partners:{P49959;P40692;Q96MF7;P12956;Q13426;Q8IY18;P13010;Q9H9Q4}

5325 Pathogen[ P14075] interacts with 5 human partners:{P12956;Q9H9Q4;Q13426;P13010;Q96MF7}

5326 Pathogen[ POC206] interacts with 10 human partners:{P13010;P49959;P40692;P49917;Q9H9Q4;Q13426;Q96MF7;O76064;Q8IY18;P12956}

5327 Pathogen[ P03363] interacts with 6 human partners:{P12956;P13010;Q13426;Q9H9Q4;Q8IY18;Q96MF7}

5328 [Cluster 485]GO:0005977+P biological\_process [name] glycogen metabolic process [def] "The chemical reactions and pathways involving glycogen, a polydisperse, highly branched glucan composed of chains of D-glucose residues in alpha-(1->4) glycosidic linkage, joined together by alpha-(1->6) glycosidic linkages." [ISBN

5329 Pathogen[ Q2Q067] interacts with 11 human partners:{P31749;P62140;P41236;Q6NXS1;Q13522;P35573;Q14749;P36873;P62136;P13807;Q9UQK1}

5330 Pathogen[ POC214] interacts with 18 human partners:{Q04446;Q96PQ5;P62140;Q6NXS1;P41236;P35573;O95685;Q14749;Q93100;Q13522;P62136;O95278;P36873;P46020;P13807;P31749;Q9UQK1;Q9H7J1}

5331 Pathogen[ P03346] interacts with 14 human partners:{P62136;Q9UQK1;P13807;O95685;Q9H7J1;Q13522;P35573;Q14749;P31749;P36873;Q6NXS1;P62140;O95278;P41236}

5332 Pathogen[ Q85601] interacts with 13 human partners:{P13807;P31749;Q9UQK1;O95278;P35573;P62136;P36873;P41236;Q04446;Q6NXS1;P62140;Q96PQ5;Q14749}

5333 Pathogen[ P14079] interacts with 17 human partners:{P31751;Q9H7J1;P36873;Q13522;P13807;Q93100;P62136;P41236;Q86XI6;Q14749;O95685;Q6NXS1;P62140;Q9UQK1;P35573;P46020;Q96PQ5}

5334 Pathogen[ P03383] interacts with 12 human partners:{P62140;Q9UQK1;P31749;P13807;P35573;Q13522;P36873;P62136;Q6NXS1;Q9H7J1;P41236;Q14749}

5335 Pathogen[ P03410] interacts with 18 human partners:{Q14749;P46020;Q04446;P62136;P35573;O95685;P31749;Q9H7J1;P41236;Q93100;Q86XI6;Q13522;P62140;P13807;P36873;Q96PQ5;Q6NXS1;Q9UQK1}

5336 Pathogen[ P14075] interacts with 14 human partners:{Q13522;Q93100;P41236;P62140;Q6NXS1;Q9UQK1;P36873;P62136;P31749;P35573;Q14749;P13807;O95685;Q9H7J1}

5337 Pathogen[ POC206] interacts with 19 human partners:{Q6NXS1;P31749;Q93100;P41236;Q9UQK1;Q04446;P13807;P46020;Q13522;Q86XI6;O95278;P62140;Q96PQ5;Q14749;O95685;P36873;Q9H7J1;P62136;P35573}

5338 Pathogen[ P03363] interacts with 11 human partners:{P62136;P13807;P36873;P62140;P41236;Q13522;Q6NXS1;P31749;Q14749;Q9UQK1;P35573}

5339 [Cluster 486]GO:0051123+P biological\_process [name] RNA polymerase II transcriptional preinitiation complex assembly [def] "The aggregation, arrangement and bonding together of proteins on an RNA polymerase II promoter DNA to form the transcriptional preinitiation complex (PIC), the formation of which is a prerequisite for transcription by RNA polymerase." [GOC

5340 Pathogen[ Q2Q067] interacts with 3 human partners:{P52657;P21675;Q9UI36}

5341 Pathogen[ POC214] interacts with 3 human partners:{P52657;P21675;Q9UI36}

5342 Pathogen[ P03346] interacts with 3 human partners:{P52657;P21675;Q9UI36}

5343 Pathogen[ Q85601] interacts with 3 human partners:{P52657;Q9UI36;P21675}

5344 Pathogen[ P14079] interacts with 3 human partners:{Q9UI36;P52657;P21675}

5345 Pathogen[ P03383] interacts with 3 human partners:{P52657;P21675;Q9UI36}

5346 Pathogen[ P03410] interacts with 3 human partners:{Q9UI36;P21675;P52657}

5347 Pathogen[ P14075] interacts with 3 human partners:{P21675;P52657;Q9UI36}

5348 Pathogen[ POC206] interacts with 3 human partners:{P52657;Q9UI36;P21675}

5349 Pathogen[ P03363] interacts with 3 human partners:{P52657;Q9UI36;P21675}

5350 [Cluster 487]GO:0006396+P biological\_process [name] RNA processing [def] "Any process involved in the conversion of one or more primary RNA transcripts into one or more mature RNA molecules." [GOC

5351 Pathogen[ Q2Q067] interacts with 44 human partners:{Q8TCS8;Q96FV9;Q86U42;P55265;P14866;Q15459;Q99575;Q12872;Q14690;Q8WXF8;Q9NR4;Q96DI7;O43172;Q14103;O60506;O00566;O94906;P31943;Q12996;Q9UHK0;P61978;Q9UHI6;P54253;Q05048;Q14498;Q8IWZ8;O60832;Q13310;Q9UBB9;P52597;Q9Y5S9;Q9BRS8;Q9Y2P8;Q96S94;Q9BU



5352 J2;Q9H9J2;P62306;Q9Y2W2;Q93062;Q92841;Q00839;Q9HCS7;O95900;Q9UK58}  
 Pathogen[ POC214] interacts with 49 human  
 partners: {Q12996;Q13310;Q96S94;Q9Y2W2;Q96FV9;Q9HCS7;Q9H9J2;Q8WXF8;O43172;P54253;Q9Y5S9;Q92841;P62306;P55265;Q05048;Q8IWZ8;Q9UHK0;Q94906;Q9UK58;Q9Y2P8;Q99575;Q14103;Q9BRS8;P52597;Q8TCS8;Q12872;Q95900;Q9BUJ2;Q15459;Q9UHI6;Q9NRR4;Q96DI7;Q14690;O60832;P31943;O00442;Q96G01;O60506;O60293;Q00839;O00566;Q6IN84;Q86U42;Q14498;O15042;Q93062;Q9UBB9;P14866;Q9NS39}

5353 Pathogen[ P03346] interacts with 64 human  
 partners: {Q96G01;Q9Y5S9;Q96FV9;Q86U42;P61978;O15042;O43172;Q93062;Q96S94;P55265;P14866;Q95900;Q92841;Q8WXF8;Q4G0J3;Q9NS39;Q14498;O60506;P31943;Q00839;O60832;Q9NYH9;Q9BUJ2;Q9HCS7;Q94906;O00566;Q05048;Q8IX01;P52756;Q14103;Q9BWF3;Q7Z333;Q9Y2P8;Q15020;Q86U42;Q9UHK0;Q8TCS8;P62306;Q9UHI6;Q9UK58;P31942;Q15459;O60293;O14979;Q99575;Q96DI7;Q14562;Q8IWZ8;Q8WWH5;Q6IN84;Q9NRR4;Q9BZJ0;Q13310;P51513;P54253;P29558;Q13395;Q9Y2W2;Q9BRS8;Q14690;P52597;Q12996;Q9H9J2;Q12872}

5354 Pathogen[ Q85601] interacts with 42 human  
 partners: {P61978;Q9HCS7;Q9Y2W2;Q99575;Q05048;Q9UK58;O60506;Q13310;Q14103;Q15459;Q9NRR4;Q9BRS8;Q9BUJ2;Q14690;Q94906;Q9UBB9;Q96DI7;Q96FV9;P62306;Q8TCS8;Q96G01;P52597;Q9UHI6;Q9Y2P8;Q8WXF8;O00566;O60293;Q9UHK0;P55265;Q12872;Q96S94;P14866;Q00839;P54253;Q9H9J2;Q86U42;P31943;O43172;Q14498;O60832;Q9Y5S9;Q93062}

5355 Pathogen[ P14079] interacts with 55 human  
 partners: {O00442;O60293;P41238;Q94906;Q9HC36;Q9Y2W2;Q14103;O60832;Q9Y5S9;Q9BUJ2;Q96S94;Q93062;P14866;Q13310;Q9NS39;Q9UHI6;Q9UHK0;P54253;Q14498;Q9HCS7;Q05048;Q00839;Q96FV9;Q15459;P62306;O00566;Q9UK58;P55265;Q9NYH9;Q9BRS8;Q9NRR4;Q86U42;Q99575;O60506;Q9UBB9;Q6IN84;Q96G01;Q9H9J2;P61978;P31943;O15042;Q8WXF8;P52597;Q12872;Q96Q11;Q9Y2P8;Q13395;Q12996;O43172;P52756;Q95900;Q8TCS8;Q8IWZ8;Q14690;Q8WWH5}

5356 Pathogen[ P03383] interacts with 40 human  
 partners: {Q9NRR4;Q12872;Q05048;Q9UK58;Q9Y2P8;Q15459;P14866;O43172;Q9HCS7;Q9Y5S9;Q99575;Q96FV9;Q92841;Q9UHI6;Q8TCS8;P61978;P31943;Q14690;Q9Y2W2;Q9BRS8;Q94906;Q9UHK0;Q14103;P54253;Q8WXF8;Q9BUJ2;Q9H9J2;P55265;Q13310;Q9UBB9;Q95900;Q86U42;Q00839;P52597;O60832;O00566;P62306;Q14498;Q93062;Q96DI7}

5357 Pathogen[ P03410] interacts with 53 human  
 partners: {Q96Q11;Q8WXF8;Q00839;O60293;Q8TCS8;Q14103;O15042;Q93062;Q12996;O00442;P61978;Q9HC36;Q05048;Q9BUJ2;P62306;Q99575;Q9UHK0;Q9Y5S9;P41238;Q9NYH9;O60832;Q9UBB9;P55265;Q9H9J2;P14866;Q9NRR4;Q96FV9;Q9HCS7;Q94906;Q9Y2W2;O43172;P52597;Q13395;Q6IN84;P31943;Q15459;Q96G01;Q96S94;Q8WWH5;Q14498;O60506;Q12872;Q95900;Q86U42;P54253;Q9Y2P8;Q9UK58;Q8IWZ8;Q9UHI6;Q13310;Q9BRS8;O00566;Q14690}

5358 Pathogen[ P14075] interacts with 42 human  
 partners: {O00566;P54253;P14866;Q14690;P55265;Q14103;Q6IN84;Q15459;O43172;Q93062;P31943;P62306;Q9H9J2;Q8WWH5;Q94906;Q12872;Q95900;Q96DI7;Q9UHK0;Q00839;Q9UHI6;Q13310;Q9Y2P8;Q9Y2W2;Q9BUJ2;Q05048;Q9UBB9;Q8WXF8;Q9BRS8;Q9NRR4;P61978;O60832;Q8TCS8;Q9HCS7;Q9UK58;Q92841;Q9Y5S9;P52597;Q96FV9;Q86U42;Q14498;Q99575}

5359 Pathogen[ POC206] interacts with 53 human  
 partners: {Q9BUJ2;Q12872;Q14103;Q8WWH5;P55265;Q8TCS8;Q14690;Q9UHK0;P14866;P61978;Q9BRS8;Q9NS39;Q86U42;Q96S94;Q9UBB9;Q9NYH9;Q9UK58;Q96FV9;Q7Z333;Q05048;O60506;Q13310;P52597;Q8WXF8;Q12996;Q9NRR4;Q95900;Q92841;Q9Y2P8;Q6IN84;O60832;Q8IWZ8;P62306;O43172;O60293;Q99575;Q94906;Q9H9J2;Q9UHI6;O15042;Q96DI7;P41238;Q93062;Q9Y2W2;Q00839;Q14498;Q9HCS7;Q15459;P31943;Q9Y5S9;O00566;Q96G01;P54253}

5360 Pathogen[ P03363] interacts with 63 human  
 partners: {O60832;Q96S94;Q15020;Q9Y2W2;Q86UA1;Q7Z333;Q12872;P52597;Q9UHI6;Q9NS39;Q99575;Q8IX01;Q9HCS7;P14866;Q05048;Q15459;P29558;Q9Y2P8;Q9UHK0;Q95900;Q4G0J3;O60293;Q9H9J2;Q8N302;Q86U42;Q9BWF3;Q96FV9;Q8IWZ8;P62306;Q14690;Q9UK58;Q14562;Q92841;P31943;O43172;O14979;Q13310;Q13395;P31942;P54253;O00566;P55265;Q9NRR4;Q9BRS8;Q8IWZ8;Q14103;Q95319;O60506;P61978;Q94906;Q8WWH5;P05455;Q00839;Q14498;P51513;O15042;Q9BUJ2;Q8WXF8;Q9Y5S9;Q12996;Q9BZJ0;Q96DI7;P52756}

5361 [Cluster 488]GO:0018283+P biological\_process [name] iron incorporation into metallo-sulfur cluster [def] "The incorporation of iron into a metallo-sulfur cluster." [GOC]

5362 Pathogen[ Q2Q067] interacts with 1 human partners: {Q9Y697}

5363 Pathogen[ POC214] interacts with 1 human partners: {Q9Y697}

5364 Pathogen[ P03346] interacts with 1 human partners: {Q9Y697}

5365 Pathogen[ Q85601] interacts with 1 human partners: {Q9Y697}

5366 Pathogen[ P14079] interacts with 1 human partners: {Q9Y697}

5367 Pathogen[ P03383] interacts with 1 human partners: {Q9Y697}

5368 Pathogen[ P03410] interacts with 1 human partners: {Q9Y697}

5369 Pathogen[ P14075] interacts with 1 human partners: {Q9Y697}

5370 Pathogen[ POC206] interacts with 1 human partners: {Q9Y697}

5371 Pathogen[ P03363] interacts with 1 human partners: {Q9Y697}

5372 [Cluster 489]GO:0010833+P biological\_process [name] telomere maintenance via telomere lengthening [def] "Any process that contributes to the maintenance of proper telomeric length and structure by affecting and monitoring the activity of telomeric proteins and lengthening the telomeric DNA." [GOC]

5373 Pathogen[ Q2Q067] interacts with 3 human partners: {Q9NYB0;Q9BSI4;Q9H668}

5374 Pathogen[ POC214] interacts with 3 human partners: {Q9BSI4;Q9NYB0;Q9H668}

5375 Pathogen[ P03346] interacts with 3 human partners: {Q9BSI4;Q9H668;Q9NYB0}

5376 Pathogen[ Q85601] interacts with 2 human partners: {Q9H668;Q9NYB0}

5377 Pathogen[ P14079] interacts with 4 human partners: {Q9H668;Q9BSI4;Q9NYB0;Q8NAM6}

5378 Pathogen[ P03383] interacts with 2 human partners:{Q9NYB0;Q9BSI4}

5379 Pathogen[ P03410] interacts with 3 human partners:{Q9H668;Q9BSI4;Q9NYB0}

5380 Pathogen[ P14075] interacts with 3 human partners:{Q9BSI4;Q9NYB0;Q9H668}

5381 Pathogen[ P0C206] interacts with 3 human partners:{Q9BSI4;Q9H668;Q9NYB0}

5382 Pathogen[ P03363] interacts with 3 human partners:{Q9NYB0;Q9BSI4;Q9H668}

5383 [Cluster 490]GO:0072112+P biological\_process [name] glomerular visceral epithelial cell differentiation [def] "The process in which a relatively unspecialized cell acquires specialized features of a glomerular visceral epithelial cell. A glomerular visceral epithelial cell is a specialized epithelial cell that contains \"feet\" that interdigitate with the \"feet\" of other glomerular epithelial cells." [GOC

5384 Pathogen[ Q2Q067] interacts with 2 human partners:{P25063;P80723}

5385 Pathogen[ P0C214] interacts with 2 human partners:{P25063;P80723}

5386 Pathogen[ P03346] interacts with 2 human partners:{P80723;P25063}

5387 Pathogen[ Q85601] interacts with 1 human partners:{P80723}

5388 Pathogen[ P14079] interacts with 2 human partners:{P25063;P80723}

5389 Pathogen[ P03383] interacts with 2 human partners:{P25063;P80723}

5390 Pathogen[ P03410] interacts with 2 human partners:{P25063;P80723}

5391 Pathogen[ P14075] interacts with 2 human partners:{P80723;P25063}

5392 Pathogen[ P0C206] interacts with 2 human partners:{P25063;P80723}

5393 Pathogen[ P03363] interacts with 1 human partners:{P80723}

5394 [Cluster 491]GO:0022011+P biological\_process [name] myelination in peripheral nervous system [def] "The process in which neuronal axons and dendrites become coated with a segmented lipid-rich sheath (myelin) to enable faster and more energetically efficient conduction of electrical impulses. The sheath is formed by the cell membranes of Schwann cells in the peripheral nervous system. Adjacent myelin segments are separated by a non-myelinated stretch of axon called a node of Ranvier." [GO\_REF

5395 Pathogen[ Q2Q067] interacts with 3 human partners:{Q03052;P20265;P12755}

5396 Pathogen[ P0C214] interacts with 3 human partners:{Q03052;P20265;P12755}

5397 Pathogen[ P03346] interacts with 2 human partners:{Q03052;P20265}

5398 Pathogen[ Q85601] interacts with 3 human partners:{Q03052;P12755;P20265}

5399 Pathogen[ P14079] interacts with 4 human partners:{P12755;P20265;Q14118;Q03052}

5400 Pathogen[ P03383] interacts with 1 human partners:{P20265}

5401 Pathogen[ P03410] interacts with 4 human partners:{P12755;Q03052;Q14118;P20265}

5402 Pathogen[ P14075] interacts with 1 human partners:{P20265}

5403 Pathogen[ P0C206] interacts with 3 human partners:{P12755;Q03052;P20265}

5404 Pathogen[ P03363] interacts with 2 human partners:{P20265;Q03052}

5405 [Cluster 492]GO:0006956+P biological\_process [name] complement activation [def] "Any process involved in the activation of any of the steps of the complement cascade, which allows for the direct killing of microbes, the disposal of immune complexes, and the regulation of other immune processes\_ the initial steps of complement activation involve one of three pathways, the classical pathway, the alternative pathway, and the lectin pathway, all of which lead to the terminal complement pathway." [GO\_REF

5406 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9H4X1}

5407 Pathogen[ P0C214] interacts with 2 human partners:{Q9H4X1;P10909}

5408 Pathogen[ P03346] interacts with 1 human partners:{Q9H4X1}

5409 Pathogen[ Q85601] interacts with 1 human partners:{Q9H4X1}

5410 Pathogen[ P14079] interacts with 1 human partners:{P10909}

5411 Pathogen[ P03383] interacts with 1 human partners:{Q9H4X1}

5412 Pathogen[ P03410] interacts with 2 human partners:{Q9H4X1;P10909}

5413 Pathogen[ P14075] interacts with 1 human partners:{Q9H4X1}

5414 Pathogen[ P0C206] interacts with 2 human partners:{Q9H4X1;P10909}

5415 Pathogen[ P03363] interacts with 1 human partners:{Q9H4X1}

5416 [Cluster 493]GO:0033133+P biological\_process [name] positive regulation of glucokinase activity [def] "Any process that activates or increases the frequency, rate or extent of glucokinase activity, the catalysis of the transfer of a phosphate group, usually from ATP, to a glucose molecule." [GOC

5417 Pathogen[ Q2Q067] interacts with 1 human partners:{Q14397}

5418 Pathogen[ P0C214] interacts with 4 human partners:{Q92934;O60825;Q14397;P16118}

5419 Pathogen[ P03346] interacts with 1 human partners:{Q14397}

5420 Pathogen[ Q85601] interacts with 3 human partners:{O60825;P16118;Q14397}

5421 Pathogen[ P14079] interacts with 2 human partners:{Q92934;Q14397}

5422 Pathogen[ P03383] interacts with 1 human partners:{Q14397}

5423 Pathogen[ P03410] interacts with 3 human partners:{Q14397;P16118;Q92934}

5424 Pathogen[ P14075] interacts with 2 human partners:{P16118;Q14397}

5425 Pathogen[ P0C206] interacts with 4 human partners:{Q92934;O60825;P16118;Q14397}

5426 Pathogen[ P03363] interacts with 1 human partners:{Q14397}

5427 [Cluster 494]GO:0007128+P biological\_process [name] meiotic prophase I [def] "Prophase occurring as part of meiosis I. Prophase is the part of nuclear division in which, canonically, chromosomes condense and the two daughter centrioles and their asters migrate toward the poles of the cell. Meiosis I is the first phase of meiosis, in which cells divide and homologous chromosomes are paired and segregated from each other." [GOC

5428 Pathogen[ Q2Q067] interacts with 3 human partners:{Q6PIF2;Q9BX26;O60671}

5429 Pathogen[ P0C214] interacts with 2 human partners:{O60671;Q9BX26}

5430 Pathogen[ P03346] interacts with 4 human partners:{Q9BX26;Q6PIF2;O60671;Q8N0S2}

5431 Pathogen[ Q85601] interacts with 3 human partners:{Q9BX26;Q6PIF2;O60671}

5432 Pathogen[ P14079] interacts with 5 human partners:{O60671;O43432;Q6PIF2;Q9BX26;Q96JY0}

5433 Pathogen[ P03383] interacts with 2 human partners:{O60671;Q9BX26}

5434 Pathogen[ P03410] interacts with 5 human partners:{O43432;Q9BX26;O60671;Q6PIF2;Q8N0S2}

5435 Pathogen[ P14075] interacts with 2 human partners:{Q9BX26;O60671}

5436 Pathogen[ P0C206] interacts with 4 human partners:{Q9BX26;Q8N0S2;O60671;Q6PIF2}

5437 Pathogen[ P03363] interacts with 4 human partners:{O60671;Q6PIF2;Q96JY0;Q9BX26}

5438 [Cluster 495]GO:0043374+P biological\_process [name] CD8-positive, alpha-beta T cell differentiation [def] "The process in which a relatively unspecialized T cell acquires specialized features of a mature CD8-positive, alpha-beta T cell." [ISBN

5439 Pathogen[ Q2Q067] interacts with 2 human partners:{P10914;Q01826}

5440 Pathogen[ P0C214] interacts with 2 human partners:{P10914;Q01826}

5441 Pathogen[ P03346] interacts with 3 human partners:{P15863;P10914;Q01826}

5442 Pathogen[ Q85601] interacts with 2 human partners:{P10914;Q01826}

5443 Pathogen[ P14079] interacts with 2 human partners:{Q01826;P10914}

5444 Pathogen[ P03383] interacts with 2 human partners:{P10914;Q01826}

5445 Pathogen[ P03410] interacts with 2 human partners:{Q01826;P10914}

5446 Pathogen[ P14075] interacts with 2 human partners:{Q01826;P10914}

5447 Pathogen[ P0C206] interacts with 2 human partners:{P10914;Q01826}

5448 Pathogen[ P03363] interacts with 2 human partners:{Q01826;P10914}

5449 [Cluster 496]GO:0071243+P biological\_process [name] cellular response to arsenic-containing substance [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an arsenic stimulus from compounds containing arsenic, including arsenates, arsenites, and arsenides." [GOC

5450 Pathogen[ Q2Q067] interacts with 3 human partners:{P10746;P06132;P08397}

5451 Pathogen[ P0C214] interacts with 3 human partners:{P06132;P10746;P08397}

5452 Pathogen[ P03346] interacts with 2 human partners:{P10746;P06132}

5453 Pathogen[ Q85601] interacts with 3 human partners:{P10746;P06132;P08397}

5454 Pathogen[ P14079] interacts with 3 human partners:{P10746;P06132;P08397}

5455 Pathogen[ P03383] interacts with 2 human partners:{P06132;P08397}

5456 Pathogen[ P03410] interacts with 3 human partners:{P08397;P06132;P10746}

5457 Pathogen[ P14075] interacts with 2 human partners:{P06132;P08397}

5458 Pathogen[ P0C206] interacts with 3 human partners:{P10746;P08397;P06132}

5459 Pathogen[ P03363] interacts with 1 human partners:{P06132}

5460 [Cluster 497]GO:0007368+P biological\_process [name] determination of left/right symmetry [def] "The establishment of an organism's body plan or part of an organism with respect to the left and right halves. The pattern can either be symmetric, such that the halves are mirror images, or asymmetric where the pattern deviates from this symmetry." [GOC

5461 Pathogen[ Q2Q067] interacts with 6 human partners:{O60481;P48380;Q15468;Q5TAB7;Q15583;Q9UMX1}

5462 Pathogen[ P0C214] interacts with 5 human partners:{Q5TAB7;Q15468;P48380;Q9UMX1;O60481}

5463 Pathogen[ P03346] interacts with 9 human partners:{Q15583;Q68CZ1;P48380;O60481;P78367;Q5TAB7;O75593;Q15468;Q9UMX1}

5464 Pathogen[ Q85601] interacts with 5 human partners:{O60481;Q15583;Q5TAB7;P48380;Q9UMX1}

5465 Pathogen[ P14079] interacts with 11 human partners:{O60481;Q68CZ1;Q15583;P48380;Q9UMX1;Q86VV8;Q8IWZ6;O15066;Q15468;Q9Y366;Q5TAB7}

5466 Pathogen[ P03383] interacts with 5 human partners:{Q5TAB7;P48380;Q15468;O60481;Q9UMX1}

5467 Pathogen[ P03410] interacts with 11 human partners:{Q86VV8;Q5TAB7;O60481;Q15468;Q8TCX1;Q9Y366;Q15583;P48380;Q8IWZ6;Q68CZ1;Q9UMX1}

5468 Pathogen[ P14075] interacts with 5 human partners:{O60481;P48380;Q5TAB7;Q15468;Q9UMX1}

5469 Pathogen[ P0C206] interacts with 6 human partners:{Q15468;O60481;Q9UMX1;P48380;Q5TAB7;Q15583}

5470 Pathogen[ P03363] interacts with 8 human partners:{Q15468;O60481;Q9UMX1;Q5TAB7;Q15583;O15066;P78367;P48380}

5471 [Cluster 498]GO:0048146+P biological\_process [name] positive regulation of fibroblast proliferation [def] "Any process that activates or increases the frequency, rate or extent of multiplication or reproduction of fibroblast cells." [GOC

5472 Pathogen[ Q2Q067] interacts with 10 human partners:{Q01094;P01106;P49356;Q13426;P15408;P35226;P38936;Q15583;P11802;Q00534}

5473 Pathogen[ P0C214] interacts with 10 human partners:{P35226;P11802;P15408;P38936;Q01094;Q00534;Q13426;P49356;P05412;P01106}

5474 Pathogen[ P03346] interacts with 12 human partners:{P05412;P35226;Q15583;Q13426;P15408;P06703;Q01094;P11802;P01106;P49356;Q00534;P38936}

5475 Pathogen[ Q85601] interacts with 11 human partners:{P01106;Q13426;Q15583;P11802;P05412;P49356;P35226;P38936;Q00534;Q01094;P15408}

5476 Pathogen[ P14079] interacts with 12 human partners: {O43181;Q15583;P38936;P49356;P01106;P35226;P06703;P05412;Q01094;P15408;Q13426;P49917}

5477 Pathogen[ P03383] interacts with 8 human partners: {Q01094;P01106;Q00534;P15408;P11802;Q13426;P35226;P05412}

5478 Pathogen[ P03410] interacts with 13 human partners: {Q00534;P01106;P49356;P15408;P06703;Q15583;P38936;P11802;Q13426;P05412;Q01094;O43181;P35226}

5479 Pathogen[ P14075] interacts with 8 human partners: {P05412;P11802;Q00534;P15408;P01106;Q01094;Q13426;P35226}

5480 Pathogen[ P0C206] interacts with 13 human partners: {P35226;P05412;P49917;Q13426;Q01094;P38936;P06703;P01106;P49356;P11802;P15408;Q15583;Q00534}

5481 Pathogen[ P03363] interacts with 9 human partners: {P01106;Q00534;Q13426;Q01094;P35226;Q15583;P05412;P11802;P15408}

5482 [Cluster 499]GO:0010457+P biological\_process [name] centriole-centriole cohesion [def] "The process in which the two centrioles within a centrosome remain tightly paired." [GOC

5483 Pathogen[ Q2Q067] interacts with 3 human partners: {Q5FBB7;Q66GS9;Q9BV73}

5484 Pathogen[ P0C214] interacts with 3 human partners: {Q66GS9;Q9BV73;Q5FBB7}

5485 Pathogen[ P03346] interacts with 3 human partners: {Q5FBB7;Q66GS9;Q9BV73}

5486 Pathogen[ Q85601] interacts with 3 human partners: {Q66GS9;Q9BV73;Q5FBB7}

5487 Pathogen[ P14079] interacts with 3 human partners: {Q66GS9;Q9BV73;Q5FBB7}

5488 Pathogen[ P03383] interacts with 3 human partners: {Q5FBB7;Q9BV73;Q66GS9}

5489 Pathogen[ P03410] interacts with 3 human partners: {Q66GS9;Q5FBB7;Q9BV73}

5490 Pathogen[ P14075] interacts with 3 human partners: {Q66GS9;Q9BV73;Q5FBB7}

5491 Pathogen[ P0C206] interacts with 3 human partners: {Q66GS9;Q5FBB7;Q9BV73}

5492 Pathogen[ P03363] interacts with 3 human partners: {Q66GS9;Q5FBB7;Q9BV73}

5493 [Cluster 500]GO:0030182+P biological\_process [name] neuron differentiation [def] "The process in which a relatively unspecialized cell acquires specialized features of a neuron." [GOC

5494 Pathogen[ Q2Q067] interacts with 23 human partners: {Q12837;P06400;Q01196;A6NFD8;Q99933;P17676;P20265;O60663;P23769;O43711;Q6IQ32;Q92769;Q6RSH7;Q8NFXJ8;P54920;P61201;P31314;O95831;Q9NY43;Q86U70;Q04743;P28370;P78543}

5495 Pathogen[ P0C214] interacts with 19 human partners: {Q6IQ32;P32243;O60663;P78543;P31314;P23769;P61201;Q8NFXJ8;P54920;P17676;P20265;Q12837;P28370;Q99933;Q86U70;Q92769;P06400;Q9NY43;Q6RSH7}

5496 Pathogen[ P03346] interacts with 39 human partners: {Q6RSH7;P50219;Q86U70;A6NFD8;Q9P2K5;P17676;Q05925;Q02535;P48443;P06400;O43711;Q12837;P23769;P19622;Q04743;Q92858;Q92886;Q04741;Q86Z02;Q93045;P20265;O60663;P17542;Q92769;Q6IQ32;P54920;P31273;Q8NFXJ8;O95831;P61201;P28370;Q01196;P31314;P32243;P78543;Q9NY43;P58546;Q99933;Q9H2A3}

5497 Pathogen[ Q85601] interacts with 24 human partners: {P54920;P17676;O95831;Q9P2K5;Q86U70;P06400;P61201;O60663;P23769;Q9NY30;Q6IQ32;Q8NFXJ8;Q99933;P78543;Q92769;A6NFD8;O43711;P32243;Q6RSH7;P28370;P31314;Q12837;Q9NY43;P20265}

5498 Pathogen[ P14079] interacts with 29 human partners: {P78543;Q06413;P61201;Q16517;P20265;P28370;Q86U70;Q9NY43;P48443;Q969N2;Q12837;Q15078;O95831;Q9NQX7;Q93045;Q9NX09;Q92769;O43711;O60663;Q99933;Q9NY30;P32243;Q04743;Q6RSH7;Q6IQ32;A6NFD8;P23769;P54920;Q8NFXJ8}

5499 Pathogen[ P03383] interacts with 20 human partners: {P32243;P54920;Q86U70;P28370;P61201;P23769;O95831;P06400;Q6RSH7;Q6IQ32;P78543;Q92769;O60663;P17676;O43711;Q12837;P31314;Q99933;Q9NY43;P20265}

5500 Pathogen[ P03410] interacts with 31 human partners: {Q99933;P17676;Q16517;Q9NY30;Q9P2K5;A6NFD8;P06400;P31314;O60663;Q6IQ32;Q92769;Q9NQX7;Q86U70;O95831;Q9BVA1;Q8NFXJ8;P61201;Q6RSH7;P78543;P32243;P23769;Q969N2;O43711;P20265;Q12837;Q9NY43;Q04743;Q9NX09;Q93045;P28370;P54920}

5501 Pathogen[ P14075] interacts with 20 human partners: {Q99933;O60663;Q86U70;P23769;P61201;Q12837;P20265;Q6RSH7;P54920;Q9NY43;Q92769;P78543;O95831;O43711;P28370;P06400;Q6IQ32;P31314;P17676;P32243}

5502 Pathogen[ P0C206] interacts with 29 human partners: {Q92769;O43711;P31314;Q9NY43;Q04743;Q9NY30;P54920;Q99933;Q8NFXJ8;A6NFD8;P61201;Q12837;Q93045;Q6RSH7;P32243;P17676;O95831;Q9P2K5;Q6IQ32;Q9NQX7;P28370;P23769;P20265;Q86U70;O60663;P48443;P78543;P06400;Q9H2A3}

5503 Pathogen[ P03363] interacts with 30 human partners: {Q92886;Q86U70;P31273;P19622;P17676;P61201;O60663;P54920;P78543;P32243;P06400;Q93045;Q6RSH7;P20265;P31314;Q05925;Q9P2K5;O43711;Q6IQ32;Q04741;P28370;Q8NFXJ8;Q9NY43;Q12837;P50219;Q99933;Q04743;O95831;A6NFD8;Q9H2A3}

5504 [Cluster 501]GO:0051272+P biological\_process [name] positive regulation of cellular component movement [def] "Any process that activates or increases the frequency, rate or extent of the movement of a cellular component." [GOC

5505 Pathogen[ Q2Q067] interacts with 3 human partners: {P14921;P41182;P39019}

5506 Pathogen[ P0C214] interacts with 3 human partners: {P39019;P14921;P41182}

5507 Pathogen[ P03346] interacts with 3 human partners: {P14921;P41182;P39019}

5508 Pathogen[ Q85601] interacts with 3 human partners: {P14921;P39019;P41182}

5509 Pathogen[ P14079] interacts with 2 human partners:{P39019;P41182}

5510 Pathogen[ P03383] interacts with 2 human partners:{P39019;P14921}

5511 Pathogen[ P03410] interacts with 3 human partners:{P41182;P39019;P14921}

5512 Pathogen[ P14075] interacts with 2 human partners:{P14921;P39019}

5513 Pathogen[ P0C206] interacts with 3 human partners:{P14921;P41182;P39019}

5514 Pathogen[ P03363] interacts with 2 human partners:{P14921;P39019}

5515 [Cluster 502]GO:0001189+P biological\_process [name] RNA polymerase I transcriptional preinitiation complex assembly at the promoter for the nuclear large rRNA transcript [def] "The aggregation, arrangement and bonding together of proteins on CORE promoter element DNA of the nuclear large ribosomal RNA (rRNA) transcript to form a transcriptional preinitiation complex (PIC), the formation of which is a prerequisite for transcription from the large rRNA promoter, resulting in the subsequent synthesis of the large rRNA transcript." [GOC

5516 Pathogen[ Q2Q067] interacts with 1 human partners:{Q53T94}

5517 Pathogen[ P0C214] interacts with 1 human partners:{Q53T94}

5518 Pathogen[ P03346] interacts with 1 human partners:{Q53T94}

5519 Pathogen[ Q85601] interacts with 1 human partners:{Q53T94}

5520 Pathogen[ P14079] interacts with 1 human partners:{Q53T94}

5521 Pathogen[ P03383] interacts with 1 human partners:{Q53T94}

5522 Pathogen[ P03410] interacts with 1 human partners:{Q53T94}

5523 Pathogen[ P14075] interacts with 1 human partners:{Q53T94}

5524 Pathogen[ P0C206] interacts with 1 human partners:{Q53T94}

5525 Pathogen[ P03363] interacts with 1 human partners:{Q53T94}

5526 [Cluster 503]GO:0033120+P biological\_process [name] positive regulation of RNA splicing [def] "Any process that activates or increases the frequency, rate or extent of RNA splicing." [GOC

5527 Pathogen[ Q2Q067] interacts with 2 human partners:{075525;Q8WVV9}

5528 Pathogen[ P0C214] interacts with 2 human partners:{075525;Q8WVV9}

5529 Pathogen[ P03346] interacts with 2 human partners:{Q8WVV9;075525}

5530 Pathogen[ Q85601] interacts with 1 human partners:{075525}

5531 Pathogen[ P14079] interacts with 2 human partners:{Q8WVV9;075525}

5532 Pathogen[ P03383] interacts with 2 human partners:{Q8WVV9;075525}

5533 Pathogen[ P03410] interacts with 2 human partners:{Q8WVV9;075525}

5534 Pathogen[ P14075] interacts with 2 human partners:{075525;Q8WVV9}

5535 Pathogen[ P0C206] interacts with 2 human partners:{Q8WVV9;075525}

5536 Pathogen[ P03363] interacts with 2 human partners:{075525;Q8WVV9}

5537 [Cluster 504]GO:0071407+P biological\_process [name] cellular response to organic cyclic compound [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an organic cyclic compound stimulus." [GOC

5538 Pathogen[ Q2Q067] interacts with 10 human partners:{P78406;P08238;P14635;Q9Y297;O15198;P16455;P46527;Q99717;Q15797;P49715}

5539 Pathogen[ P0C214] interacts with 9 human partners:{O15198;P78406;P46527;P14635;Q9Y297;P16455;Q99717;Q15797;P40692}

5540 Pathogen[ P03346] interacts with 9 human partners:{Q15797;P78406;Q99717;P49715;O15198;P14635;P46527;Q9Y297;P08238}

5541 Pathogen[ Q85601] interacts with 10 human partners:{O15198;Q15797;P16455;P78406;P14635;Q99717;P08238;P49715;P40692;P46527}

5542 Pathogen[ P14079] interacts with 11 human partners:{P10109;P13498;P40692;O15198;P16455;Q15797;P14635;P49715;P08238;P78406;P46527}

5543 Pathogen[ P03383] interacts with 7 human partners:{O15198;P78406;Q15797;P14635;P46527;Q99717;P08238}

5544 Pathogen[ P03410] interacts with 10 human partners:{P40692;P46527;P08238;Q99717;O15198;P78406;P14635;Q15797;P16455;P10109}

5545 Pathogen[ P14075] interacts with 6 human partners:{P14635;P78406;Q99717;P08238;P46527;O15198}

5546 Pathogen[ P0C206] interacts with 10 human partners:{P40692;Q99717;P49715;P08238;P46527;Q15797;P78406;P14635;O15198;P16455}

5547 Pathogen[ P03363] interacts with 5 human partners:{Q15797;P78406;Q99717;P08238;O15198}

5548 [Cluster 505]GO:0071218+P biological\_process [name] cellular response to misfolded protein [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a misfolded protein stimulus." [GOC

5549 Pathogen[ Q2Q067] interacts with 2 human partners:{P54252;Q9UNE7}

5550 Pathogen[ P0C214] interacts with 3 human partners:{Q96B02;Q9UNE7;P54252}

5551 Pathogen[ P03346] interacts with 2 human partners:{Q9UNE7;P54252}

5552 Pathogen[ Q85601] interacts with 3 human partners:{Q96B02;P54252;Q9UNE7}

5553 Pathogen[ P14079] interacts with 1 human partners:{P54252}

5554 Pathogen[ P03383] interacts with 1 human partners:{P54252}

5555 Pathogen[ P03410] interacts with 2 human partners:{P54252;Q9UNE7}

5556 Pathogen[ P14075] interacts with 1 human partners:{P54252}

5557 Pathogen[ P0C206] interacts with 3 human partners:{P54252;Q9UNE7;Q96B02}

5558 Pathogen[ P03363] interacts with 2 human partners:{P54252;Q9UNE7}

5559 [Cluster 506]GO:0039535+P

5560 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13490}

5561 Pathogen[ P0C214] interacts with 1 human partners:{Q13490}

5562 Pathogen[ P03346] interacts with 2 human partners:{Q13489;Q13490}

5563 Pathogen[ Q85601] interacts with 1 human partners:{Q13490}

5564 Pathogen[ P14079] interacts with 1 human partners:{Q13490}

5565 Pathogen[ P03383] interacts with 1 human partners:{Q13490}

5566 Pathogen[ P03410] interacts with 1 human partners:{Q13490}

5567 Pathogen[ P14075] interacts with 1 human partners:{Q13490}

5568 Pathogen[ P0C206] interacts with 2 human partners:{Q13489;Q13490}

5569 Pathogen[ P03363] interacts with 2 human partners:{Q13490;Q13489}

5570 [Cluster 507]GO:0005999+P biological\_process [name] xylulose biosynthetic process  
[def] "The chemical reactions and pathways resulting in the formation of xylulose, the  
ketopentose threo-2-pentulose." [ISBN

5571 Pathogen[ Q2Q067] interacts with 1 human partners:{P37837}

5572 Pathogen[ P0C214] interacts with 2 human partners:{P29401;P37837}

5573 Pathogen[ P03346] interacts with 1 human partners:{P37837}

5574 Pathogen[ Q85601] interacts with 1 human partners:{P37837}

5575 Pathogen[ P14079] interacts with 2 human partners:{P29401;P37837}

5576 Pathogen[ P03383] interacts with 1 human partners:{P37837}

5577 Pathogen[ P03410] interacts with 1 human partners:{P37837}

5578 Pathogen[ P14075] interacts with 1 human partners:{P37837}

5579 Pathogen[ P0C206] interacts with 2 human partners:{P37837;P29401}

5580 Pathogen[ P03363] interacts with 1 human partners:{P37837}

5581 [Cluster 508]GO:0032728+P biological\_process [name] positive regulation of  
interferon-beta production [def] "Any process that activates or increases the  
frequency, rate, or extent of interferon-beta production." [GOC

5582 Pathogen[ Q2Q067] interacts with 11 human  
partners:{Q92985;Q7Z2W4;Q9BUI4;Q14653;P10914;O15318;Q9BYX4;P05423;O14802;Q9H1D9;Q8IU  
D6}

5583 Pathogen[ P0C214] interacts with 12 human  
partners:{Q9BUI4;Q9H1D9;Q8IUD6;P10914;Q9BYX4;P05423;Q7Z2W4;Q92985;O15318;Q9NW08;Q146  
53;O14802}

5584 Pathogen[ P03346] interacts with 11 human  
partners:{Q8IUD6;P05423;O15318;P10914;Q9H1D9;Q9BUI4;Q14653;Q9BYX4;Q92985;O14802;Q7Z2  
W4}

5585 Pathogen[ Q85601] interacts with 12 human  
partners:{Q9H1D9;Q9BUI4;Q7Z2W4;Q8IUD6;P05423;P10914;Q14653;Q9BYX4;Q92985;Q9NW08;O148  
02;O15318}

5586 Pathogen[ P14079] interacts with 13 human  
partners:{Q9BYX4;Q14653;Q7Z2W4;Q9NW08;Q92985;Q7Z434;Q9BUI4;P05423;O14802;O15318;Q9H1  
D9;Q8IUD6;P10914}

5587 Pathogen[ P03383] interacts with 7 human  
partners:{P10914;Q14653;Q9H1D9;Q92985;O15318;O14802;Q7Z2W4}

5588 Pathogen[ P03410] interacts with 12 human  
partners:{Q14653;Q9BYX4;O15318;Q7Z434;Q9NW08;Q7Z2W4;P10914;P05423;Q9H1D9;Q92985;O148  
02;Q9BUI4}

5589 Pathogen[ P14075] interacts with 7 human  
partners:{Q14653;Q9H1D9;Q7Z2W4;Q92985;P10914;O14802;O15318}

5590 Pathogen[ P0C206] interacts with 12 human  
partners:{P10914;Q9NW08;Q9BUI4;Q8IUD6;O15318;P05423;Q92985;Q9BYX4;Q7Z2W4;O14802;Q9H1  
D9;Q14653}

5591 Pathogen[ P03363] interacts with 9 human  
partners:{Q14653;Q92985;Q7Z2W4;Q9H1D9;P05423;O15318;P10914;Q8IUD6;Q9BYX4}

5592 [Cluster 509]GO:0070208+P biological\_process [name] protein heterotrimerization  
[def] "The formation of a protein heterotrimer, a macromolecular structure consisting of  
three noncovalently associated subunits, of which not all are identical." [GOC

5593 Pathogen[ Q2Q067] interacts with 2 human partners:{P67775;P12757}

5594 Pathogen[ P0C214] interacts with 2 human partners:{P12757;P67775}

5595 Pathogen[ P03346] interacts with 2 human partners:{P12757;P67775}

5596 Pathogen[ Q85601] interacts with 2 human partners:{P12757;P67775}

5597 Pathogen[ P14079] interacts with 1 human partners:{P12757}

5598 Pathogen[ P03383] interacts with 2 human partners:{P67775;P12757}

5599 Pathogen[ P03410] interacts with 2 human partners:{P12757;P67775}

5600 Pathogen[ P14075] interacts with 2 human partners:{P12757;P67775}

5601 Pathogen[ P0C206] interacts with 2 human partners:{P67775;P12757}

5602 Pathogen[ P03363] interacts with 2 human partners:{P12757;P67775}

5603 [Cluster 510]GO:2000377+P biological\_process [name] regulation of reactive oxygen  
species metabolic process [def] "Any process that modulates the frequency, rate or  
extent of reactive oxygen species metabolic process." [GOC

5604 Pathogen[ Q2Q067] interacts with 3 human partners:{O60260;Q08050;Q7Z2X4}

5605 Pathogen[ P0C214] interacts with 3 human partners:{Q7Z2X4;Q9H4P4;O60260}

5606 Pathogen[ P03346] interacts with 4 human partners:{Q9H4P4;Q08050;Q7Z2X4;O60260}

5607 Pathogen[ Q85601] interacts with 4 human partners:{Q7Z2X4;O60260;Q08050;Q9H4P4}

5608 Pathogen[ P14079] interacts with 3 human partners:{O60260;P46695;Q7Z2X4}

5609 Pathogen[ P03383] interacts with 1 human partners:{O60260}

5610 Pathogen[ P03410] interacts with 3 human partners:{O60260;Q7Z2X4;P46695}

5611 Pathogen[ P14075] interacts with 2 human partners:{Q08050;O60260}

5612 Pathogen[ P0C206] interacts with 4 human partners:{Q7Z2X4;Q9H4P4;O60260;Q08050}

5613 Pathogen[ P03363] interacts with 2 human partners:{Q08050;Q9H4P4}

5614 [Cluster 511]GO:0000303+P biological\_process [name] response to superoxide [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a superoxide stimulus. Superoxide is the anion, oxygen-, formed by addition of one electron to dioxygen (O2) or any compound containing the superoxide anion." [GOC

5615 Pathogen[ Q2Q067] interacts with 1 human partners:{Q03468}

5616 Pathogen[ P0C214] interacts with 1 human partners:{Q03468}

5617 Pathogen[ P03346] interacts with 1 human partners:{Q03468}

5618 Pathogen[ Q85601] interacts with 1 human partners:{Q03468}

5619 Pathogen[ P14079] interacts with 1 human partners:{Q03468}

5620 Pathogen[ P03383] interacts with 1 human partners:{Q03468}

5621 Pathogen[ P03410] interacts with 1 human partners:{Q03468}

5622 Pathogen[ P14075] interacts with 1 human partners:{Q03468}

5623 Pathogen[ P0C206] interacts with 1 human partners:{Q03468}

5624 Pathogen[ P03363] interacts with 1 human partners:{Q03468}

5625 [Cluster 512]GO:0042347+P biological\_process [name] negative regulation of NF-kappaB import into nucleus [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the transfer of NF-kappaB, a transcription factor for eukaryotic RNA polymerase II promoters, from the cytoplasm into the nucleus, across the nuclear membrane." [GOC

5626 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BZF9}

5627 Pathogen[ P0C214] interacts with 1 human partners:{Q9BZF9}

5628 Pathogen[ P03346] interacts with 1 human partners:{Q9BZF9}

5629 Pathogen[ Q85601] interacts with 2 human partners:{Q9BZF9;Q9NQC7}

5630 Pathogen[ P14079] interacts with 2 human partners:{Q9BZF9;Q9NQC7}

5631 Pathogen[ P03383] interacts with 1 human partners:{Q9BZF9}

5632 Pathogen[ P03410] interacts with 1 human partners:{Q9BZF9}

5633 Pathogen[ P14075] interacts with 1 human partners:{Q9BZF9}

5634 Pathogen[ P0C206] interacts with 2 human partners:{Q9NQC7;Q9BZF9}

5635 Pathogen[ P03363] interacts with 1 human partners:{Q9BZF9}

5636 [Cluster 513]GO:0032012+P biological\_process [name] regulation of ARF protein signal transduction [def] "Any process that modulates the frequency, rate or extent of ARF protein signal transduction." [GOC

5637 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9Y6D6}

5638 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y6D6}

5639 Pathogen[ P03346] interacts with 6 human partners:{Q5JU85;Q15438;Q9Y6D5;Q9Y6D6;Q6DN90;Q9UPP2}

5640 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y6D6}

5641 Pathogen[ P14079] interacts with 5 human partners:{Q9UPP2;Q9Y6D5;Q9Y6D6;Q6DN90;Q15438}

5642 Pathogen[ P03383] interacts with 1 human partners:{Q9Y6D6}

5643 Pathogen[ P03410] interacts with 4 human partners:{Q9UPP2;Q9Y6D6;Q9Y6D5;Q15438}

5644 Pathogen[ P14075] interacts with 1 human partners:{Q9Y6D6}

5645 Pathogen[ P0C206] interacts with 3 human partners:{Q9Y6D6;Q9Y6D5;Q9UPP2}

5646 Pathogen[ P03363] interacts with 5 human partners:{Q15438;Q9UPP2;Q5JU85;Q6DN90;Q9Y6D6}

5647 [Cluster 514]GO:0048011+P biological\_process [name] nerve growth factor receptor signaling pathway [def] "The series of molecular signals generated as a consequence of the nerve growth factor receptor binding to one of its physiological ligands." [GOC

5648 Pathogen[ Q2Q067] interacts with 53 human partners:{P46108;Q9Y3A2;O94973;P31749;Q9Y5V3;O95782;P40763;Q13352;P62258;Q04206;Q00994;Q5T1C6;Q96B36;Q13547;O15379;P56945;Q9NY61;P63010;Q96CW1;O43524;Q99608;O75582;Q9BPZ7;Q00610;Q9BVC4;Q92769;Q92529;P42575;P19419;P19838;Q96RU7;Q99962;P25963;P0CG47;O14920;P31946;Q9UKN5;P0CG48;P27986;P63000;P62987;P09496;P46527;Q6R327;P61586;O15111;Q00987;P22736;Q15759;Q16829;Q13501;Q02078;P62979}

5649 Pathogen[ P0C214] interacts with 58 human partners:{Q9BPZ7;Q96CW1;Q9UKN5;O60346;P63000;O15111;Q9Y5V3;Q9BVC4;Q13547;P56945;P19838;P62993;Q92934;Q00987;Q00994;P19419;P61586;P46527;Q04206;Q99608;Q92529;Q99962;Q9NY61;P52565;Q02078;Q13501;P63010;Q6R327;P0CG48;Q96B36;Q92769;Q13352;P42574;P25963;O15379;Q16829;O75582;P62987;Q96RU7;O94973;Q15759;P0CG47;P40763;P09496;Q5T1C6;O95782;P16220;P46108;P31946;P62979;P53680;P98171;P27986;O14920;P42575;P31749;P18846;Q9Y3A2}

5650 Pathogen[ P03346] interacts with 66 human partners:{Q9Y3A2;O60346;Q02078;O15111;P16220;P98171;P63010;P62987;O15379;P25963;Q9BVC4;P53680;Q9BPZ7;P42575;Q99962;P62258;P19419;P0CG48;Q04206;Q12802;O95782;P62993;P42574;Q00994;P52565;P09496;Q00987;Q96B36;P56945;P22736;P31749;Q92769;Q13547;Q96CW1;Q9NY61;Q12778;O75582;P98177;Q9Y5V3;P46108;Q16829;P62979;Q96RU7;Q99608;Q5VV41;P31946;P55211;Q15759;P0CG47;P19838;O14920;Q9H8V3;Q6R327;Q92529;P46527;O94973;P40763;O43524;Q9UKN5;P63000;Q00610;Q13352;P27986;P18846;Q13501;P61586}

5651 Pathogen[ Q85601] interacts with 58 human partners:{O60346;Q02078;P31946;Q00610;P31749;P62993;P09496;Q96CW1;Q9NY61;O15111;Q9BPZ7;Q99962;Q9UKN5;P19419;P40763;Q16829;Q9Y3A2;P63000;P46108;P18846;Q96B36;P0CG48;P52565;Q99608;Q96015;P27986;Q9BVC4;Q13352;P56945;P62258;Q92769;P42575;P16220;O14920;Q04206;Q9Y5V3;P22736;Q92529;P53680;O75582;P61586;P62979;O94973;Q96RU7;Q15759;P0CG47;O153

79;P63010;Q13547;Q00994;P62987;Q00987;P19838;Q5T1C6;Q13501;P46527;O95782;P25963}  
5652 Pathogen[ P14079] interacts with 62 human  
partners: {Q6R327;O15379;Q96CW1;P52565;Q02078;P0CG48;Q06413;Q00610;Q9Y3A2;Q9NY61;O755  
82;Q16829;Q92542;P98171;Q9NZ42;Q00994;P22736;O60346;P62979;Q9BVC4;Q99608;P62987;Q009  
87;P10911;Q12802;P45983;Q9Y5V3;O95782;Q16644;Q9NX09;Q92769;Q92934;P31946;Q15759;Q5T1  
C6;P61586;Q9H8V3;Q8WU20;P63010;P62258;Q13501;O94973;Q8WW43;Q96RU7;P62993;P46527;Q131  
64;Q96B36;P42575;Q9UKN5;Q9BPZ7;O96015;Q92529;P0CG47;Q13352;P53680;Q99836;P46108;P094  
96;P19419;Q99962;Q5VV41}  
5653 Pathogen[ P03383] interacts with 43 human  
partners: {Q96CW1;P27986;Q9NY61;P56945;O75582;Q00610;P16220;P62987;O14920;P31946;Q996  
08;P31749;Q9BPZ7;O15111;P19419;P63000;P98171;O15111;P42575;O75582;Q99608;Q9BPZ7;Q9NY61;Q135  
10;P46527;Q92769;Q9Y5V3;Q9UKN5;O15379;O95782;Q15759;P25963;Q13501;Q13547;Q96RU7;P629  
79;P0CG47;Q04206;P0CG48;O94973;P19838;P62258;Q5T1C6;Q02078}  
5654 Pathogen[ P03410] interacts with 68 human  
partners: {Q00610;P09496;P62258;Q04206;O95782;P19838;P46527;Q96CW1;Q92529;P27986;P0CG  
48;O14920;P53680;P19419;P63000;P98171;O15111;P42575;O75582;Q99608;Q9BPZ7;Q9NY61;Q135  
01;P31749;Q92934;Q9BVC4;P62979;P18846;Q9NZ42;Q00994;Q96B36;Q16829;Q92769;Q5T1C6;Q9UK  
N5;P61586;O15379;Q5VV41;P22736;P16220;Q6R327;Q96RU7;P63010;Q9Y5V3;O60346;P46108;P629  
87;P56945;Q13547;Q9BZR6;Q8WW43;Q02078;Q92542;Q99962;Q00987;Q9Y3A2;Q9H8V3;Q8WU20;P259  
63;P52565;P62993;P40763;Q9NX09;O94973;P0CG47;Q13352;P31946;O96015}  
5655 Pathogen[ P14075] interacts with 45 human  
partners: {Q99608;O15111;P09496;Q04206;O94973;Q96CW1;Q15759;Q9UKN5;O75582;P19419;Q9NY  
61;Q00994;Q5T1C6;P25963;Q13547;P46527;Q9BPZ7;Q96B36;O14920;P31749;P0CG48;P62979;Q927  
69;Q6R327;O95782;P27986;P62987;P61586;Q02078;P63000;Q96RU7;O15379;P63010;P0CG47;P198  
38;P16220;P31946;Q13352;Q9Y3A2;Q9Y5V3;Q00610;Q13501;P56945;P18846;P62258}  
5656 Pathogen[ P0C206] interacts with 66 human  
partners: {P53680;P63010;Q13501;Q92769;P0CG48;O94973;O14920;P31749;Q9NZ42;Q02078;P162  
20;O75582;Q96B36;P52565;P25963;Q9Y5V3;P19419;Q00610;Q13547;Q99962;P18846;Q92542;P227  
36;Q16829;Q00994;P27986;P62993;Q96RU7;P09496;P61586;P31946;Q92934;P19838;Q6R327;P630  
00;P62258;Q9UKN5;Q8WU20;O15379;Q04206;Q96CW1;O15111;P62979;Q5T1C6;P46527;Q13352;Q996  
08;Q9BPZ7;P42574;Q9H8V3;P40763;O95782;P98171;P0CG47;P42575;P56945;O60346;P46108;Q925  
29;P62987;Q00987;Q9NY61;Q15759;Q9Y3A2;O96015;Q9BVC4}  
5657 Pathogen[ P03363] interacts with 42 human  
partners: {Q9BVC4;P62258;Q96B36;Q99962;O14920;Q04206;P52565;Q5VV41;Q9UKN5;P25963;O151  
11;O15379;P31946;P16220;P98171;P19419;Q00610;P63000;O94973;Q99608;Q92529;P10911;O435  
24;Q9NY61;Q16829;P31749;P18846;P63010;P62987;P46108;Q13547;Q00994;P19838;O95782;P569  
45;Q9Y5V3;Q9Y3A2;Q13352;P27986;Q6R327;Q96CW1;Q02078}  
5658 [Cluster 515]GO:0055070+P biological\_process [name] copper ion homeostasis [def]  
"Any process involved in the maintenance of an internal steady state of copper ions  
within an organism or cell." [GOC  
5659 Pathogen[ Q2Q067] interacts with 2 human partners: {Q9NTM9;Q8N668}  
5660 Pathogen[ P0C214] interacts with 3 human partners: {Q8N668;P98170;Q9NTM9}  
5661 Pathogen[ P03346] interacts with 3 human partners: {Q8N668;Q9NTM9;P98170}  
5662 Pathogen[ Q85601] interacts with 2 human partners: {P98170;Q8N668}  
5663 Pathogen[ P14079] interacts with 3 human partners: {Q9NTM9;Q8N668;O43819}  
5664 Pathogen[ P03383] interacts with 1 human partners: {Q8N668}  
5665 Pathogen[ P03410] interacts with 3 human partners: {Q9NTM9;Q8N668;O43819}  
5666 Pathogen[ P14075] interacts with 2 human partners: {Q9NTM9;Q8N668}  
5667 Pathogen[ P0C206] interacts with 3 human partners: {P98170;Q8N668;Q9NTM9}  
5668 Pathogen[ P03363] interacts with 3 human partners: {Q8N668;P98170;Q9NTM9}  
5669 [Cluster 516]GO:0070507+P biological\_process [name] regulation of microtubule  
cytoskeleton organization [def] "Any process that modulates the frequency, rate or  
extent of the formation, arrangement of constituent parts, or disassembly of  
cytoskeletal structures comprising microtubules and their associated proteins." [GOC  
5670 Pathogen[ Q2Q067] interacts with 1 human partners: {Q9P1Y5}  
5671 Pathogen[ P0C214] interacts with 1 human partners: {Q9P1Y5}  
5672 Pathogen[ P03346] interacts with 1 human partners: {Q9P1Y5}  
5673 Pathogen[ Q85601] interacts with 2 human partners: {Q9P1Y5;Q9NQC7}  
5674 Pathogen[ P14079] interacts with 3 human partners: {Q15078;Q9P1Y5;Q9NQC7}  
5675 Pathogen[ P03383] interacts with 1 human partners: {Q9P1Y5}  
5676 Pathogen[ P03410] interacts with 1 human partners: {Q9P1Y5}  
5677 Pathogen[ P14075] interacts with 1 human partners: {Q9P1Y5}  
5678 Pathogen[ P0C206] interacts with 2 human partners: {Q9NQC7;Q9P1Y5}  
5679 Pathogen[ P03363] interacts with 1 human partners: {Q9P1Y5}  
5680 [Cluster 517]GO:0019367+P biological\_process [name] fatty acid elongation, saturated  
fatty acid [def] "Elongation of a saturated fatty acid chain." [GOC  
5681 Pathogen[ Q2Q067] interacts with 5 human  
partners: {Q9H5J4;Q9BW60;Q9GZR5;A1L3X0;Q9HB03}  
5682 Pathogen[ P0C214] interacts with 4 human partners: {Q9GZR5;Q9HB03;A1L3X0;Q9BW60}  
5683 Pathogen[ P03346] interacts with 3 human partners: {Q9BW60;Q9H5J4;Q9HB03}  
5684 Pathogen[ Q85601] interacts with 5 human  
partners: {A1L3X0;Q9BW60;Q9H5J4;Q9HB03;Q9GZR5}  
5685 Pathogen[ P14079] interacts with 5 human  
partners: {A1L3X0;Q9HB03;Q9GZR5;Q9BW60;Q9H5J4}  
5686 Pathogen[ P03383] interacts with 5 human  
partners: {Q9BW60;Q9GZR5;Q9H5J4;A1L3X0;Q9HB03}



5687 Pathogen[ P03410] interacts with 5 human partners:{A1L3X0;Q9GZR5;Q9H5J4;Q9BW60;Q9HB03}

5688 Pathogen[ P14075] interacts with 5 human partners:{Q9H5J4;Q9BW60;Q9HB03;A1L3X0;Q9GZR5}

5689 Pathogen[ P0C206] interacts with 5 human partners:{Q9HB03;Q9H5J4;Q9GZR5;A1L3X0;Q9BW60}

5690 Pathogen[ P03363] interacts with 1 human partners:{Q9H5J4}

5691 [Cluster 518]GO:0045670+P biological\_process [name] regulation of osteoclast differentiation [def] "Any process that modulates the frequency, rate or extent of osteoclast differentiation." [GOC

5692 Pathogen[ Q2Q067] interacts with 3 human partners:{P19532;O75030;P11474}

5693 Pathogen[ P0C214] interacts with 4 human partners:{P11474;Q9BRX8;O75030;P19532}

5694 Pathogen[ P03346] interacts with 3 human partners:{O75030;P19532;P11474}

5695 Pathogen[ Q85601] interacts with 3 human partners:{O75030;P19532;P11474}

5696 Pathogen[ P14079] interacts with 4 human partners:{P11474;Q9BRX8;P19532;O75030}

5697 Pathogen[ P03383] interacts with 3 human partners:{O75030;P11474;P19532}

5698 Pathogen[ P03410] interacts with 4 human partners:{O75030;P19532;P11474;Q9BRX8}

5699 Pathogen[ P14075] interacts with 3 human partners:{O75030;P11474;P19532}

5700 Pathogen[ P0C206] interacts with 4 human partners:{O75030;P19532;P11474;Q9BRX8}

5701 Pathogen[ P03363] interacts with 3 human partners:{P11474;O75030;P19532}

5702 [Cluster 519]GO:0042220+P biological\_process [name] response to cocaine [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a cocaine stimulus. Cocaine is a crystalline alkaloid obtained from the leaves of the coca plant." [CHEBI

5703 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UQL6}

5704 Pathogen[ P0C214] interacts with 1 human partners:{Q9UQL6}

5705 Pathogen[ P03346] interacts with 2 human partners:{P50135;Q9UQL6}

5706 Pathogen[ Q85601] interacts with 1 human partners:{Q9UQL6}

5707 Pathogen[ P14079] interacts with 3 human partners:{Q9UQL6;P50135;P17405}

5708 Pathogen[ P03383] interacts with 1 human partners:{Q9UQL6}

5709 Pathogen[ P03410] interacts with 3 human partners:{Q9UQL6;P50135;P17405}

5710 Pathogen[ P14075] interacts with 1 human partners:{Q9UQL6}

5711 Pathogen[ P0C206] interacts with 2 human partners:{P50135;Q9UQL6}

5712 Pathogen[ P03363] interacts with 2 human partners:{P50135;Q9UQL6}

5713 [Cluster 520]GO:2000393+P biological\_process [name] negative regulation of lamellipodium morphogenesis [def] "Any process that stops, prevents or reduces the frequency, rate or extent of lamellipodium morphogenesis." [GOC

5714 Pathogen[ Q2Q067] interacts with 1 human partners:{Q14678}

5715 Pathogen[ P0C214] interacts with 1 human partners:{Q14678}

5716 Pathogen[ P03346] interacts with 1 human partners:{Q14678}

5717 Pathogen[ Q85601] interacts with 1 human partners:{Q14678}

5718 Pathogen[ P14079] interacts with 1 human partners:{Q14678}

5719 Pathogen[ P03383] interacts with 1 human partners:{Q14678}

5720 Pathogen[ P03410] interacts with 1 human partners:{Q14678}

5721 Pathogen[ P14075] interacts with 1 human partners:{Q14678}

5722 Pathogen[ P0C206] interacts with 1 human partners:{Q14678}

5723 Pathogen[ P03363] interacts with 1 human partners:{Q14678}

5724 [Cluster 521]GO:0010862+P biological\_process [name] positive regulation of pathway-restricted SMAD protein phosphorylation [def] "Any process that increases the rate, frequency or extent of pathway-restricted SMAD protein phosphorylation. Pathway-restricted SMAD proteins and common-partner SMAD proteins are involved in the transforming growth factor beta receptor signaling pathways." [GOC

5725 Pathogen[ Q2Q067] interacts with 3 human partners:{Q13485;P67870;Q93062}

5726 Pathogen[ P0C214] interacts with 3 human partners:{Q13485;P67870;Q93062}

5727 Pathogen[ P03346] interacts with 3 human partners:{Q93062;Q13485;P67870}

5728 Pathogen[ Q85601] interacts with 3 human partners:{P67870;Q13485;Q93062}

5729 Pathogen[ P14079] interacts with 2 human partners:{Q93062;P67870}

5730 Pathogen[ P03383] interacts with 3 human partners:{Q13485;P67870;Q93062}

5731 Pathogen[ P03410] interacts with 3 human partners:{Q93062;Q13485;P67870}

5732 Pathogen[ P14075] interacts with 3 human partners:{Q93062;Q13485;P67870}

5733 Pathogen[ P0C206] interacts with 3 human partners:{P67870;Q13485;Q93062}

5734 Pathogen[ P03363] interacts with 2 human partners:{Q13485;P67870}

5735 [Cluster 522]GO:0045821+P biological\_process [name] positive regulation of glycolysis [def] "Any process that activates or increases the frequency, rate or extent of glycolysis." [GOC

5736 Pathogen[ Q2Q067] interacts with 3 human partners:{P27540;O14556;Q9NP71}

5737 Pathogen[ P0C214] interacts with 3 human partners:{O14556;Q9NP71;P27540}

5738 Pathogen[ P03346] interacts with 3 human partners:{P27540;Q9NP71;O14556}

5739 Pathogen[ Q85601] interacts with 3 human partners:{P27540;Q9NP71;O14556}

5740 Pathogen[ P14079] interacts with 2 human partners:{P27540;Q9NP71}

5741 Pathogen[ P03383] interacts with 3 human partners:{P27540;Q9NP71;O14556}

5742 Pathogen[ P03410] interacts with 3 human partners:{O14556;P27540;Q9NP71}

5743 Pathogen[ P14075] interacts with 3 human partners:{P27540;Q9NP71;O14556}

5744 Pathogen[ P0C206] interacts with 3 human partners:{Q9NP71;O14556;P27540}

5745 Pathogen[ P03363] interacts with 3 human partners:{P27540;Q9NP71;O14556}

5746 [Cluster 523]GO:0030278+P biological\_process [name] regulation of ossification  
[def] "Any process that modulates the frequency, rate or extent of bone formation." [GOC]

5747 Pathogen[ Q2Q067] interacts with 3 human partners:{P11161;P11474;P40424}

5748 Pathogen[ P0C214] interacts with 4 human partners:{P40424;P11474;Q8WXG1;P11161}

5749 Pathogen[ P03346] interacts with 3 human partners:{P11161;P11474;P40424}

5750 Pathogen[ Q85601] interacts with 3 human partners:{P40424;P11474;P11161}

5751 Pathogen[ P14079] interacts with 3 human partners:{P11474;P11161;Q8WXG1}

5752 Pathogen[ P03383] interacts with 3 human partners:{P40424;P11474;P11161}

5753 Pathogen[ P03410] interacts with 4 human partners:{Q8WXG1;P11474;P40424;P11161}

5754 Pathogen[ P14075] interacts with 3 human partners:{P40424;P11474;P11161}

5755 Pathogen[ P0C206] interacts with 4 human partners:{P11161;P40424;P11474;Q8WXG1}

5756 Pathogen[ P03363] interacts with 3 human partners:{P11474;P40424;P11161}

5757 [Cluster 524]GO:0001661+P biological\_process [name] conditioned taste aversion  
[def] "A conditioned aversion to a specific chemical compound as a result of that compound being coupled with a noxious stimulus." [GOC]

5758 Pathogen[ Q2Q067] interacts with 1 human partners:{P01100}

5759 Pathogen[ P0C214] interacts with 1 human partners:{P01100}

5760 Pathogen[ P03346] interacts with 1 human partners:{P01100}

5761 Pathogen[ Q85601] interacts with 1 human partners:{P01100}

5762 Pathogen[ P14079] interacts with 1 human partners:{P01100}

5763 Pathogen[ P03383] interacts with 1 human partners:{P01100}

5764 Pathogen[ P03410] interacts with 1 human partners:{P01100}

5765 Pathogen[ P14075] interacts with 1 human partners:{P01100}

5766 Pathogen[ P0C206] interacts with 1 human partners:{P01100}

5767 Pathogen[ P03363] interacts with 1 human partners:{P01100}

5768 [Cluster 525]GO:0051146+P biological\_process [name] striated muscle cell differentiation [def] "The process in which a relatively unspecialized cell acquires specialized features of a striated muscle cell\_ striated muscle fibers are divided by transverse bands into striations, and cardiac and voluntary muscle are types of striated muscle." [CL]

5769 Pathogen[ Q2Q067] interacts with 4 human partners:{P31749;P06400;Q12982;P15172}

5770 Pathogen[ P0C214] interacts with 4 human partners:{P15172;Q12982;P06400;P31749}

5771 Pathogen[ P03346] interacts with 5 human partners:{P06400;P15172;P31749;Q12982;P58546}

5772 Pathogen[ Q85601] interacts with 4 human partners:{P31749;P15172;P06400;Q12982}

5773 Pathogen[ P14079] interacts with 1 human partners:{Q12982}

5774 Pathogen[ P03383] interacts with 3 human partners:{P15172;P31749;P06400}

5775 Pathogen[ P03410] interacts with 3 human partners:{P31749;P06400;Q12982}

5776 Pathogen[ P14075] interacts with 3 human partners:{P15172;P31749;P06400}

5777 Pathogen[ P0C206] interacts with 4 human partners:{Q12982;P31749;P15172;P06400}

5778 Pathogen[ P03363] interacts with 4 human partners:{P06400;P31749;P15172;Q12982}

5779 [Cluster 526]GO:0045022+P biological\_process [name] early endosome to late endosome transport [def] "The directed movement of substances, in membrane-bounded vesicles, from the early sorting endosomes to the late sorting endosomes\_ transport occurs along microtubules and can be experimentally blocked with microtubule-depolymerizing drugs." [ISBN]

5780 Pathogen[ Q2Q067] interacts with 4 human partners:{Q8N612;Q9H8T0;Q86VS8;Q96ED9}

5781 Pathogen[ P0C214] interacts with 4 human partners:{Q96ED9;Q8N612;Q86VS8;Q9H8T0}

5782 Pathogen[ P03346] interacts with 5 human partners:{Q86VS8;Q8N612;Q9H8T0;Q96ED9;Q9UJC3}

5783 Pathogen[ Q85601] interacts with 4 human partners:{Q86VS8;Q8N612;Q9H8T0;Q96ED9}

5784 Pathogen[ P14079] interacts with 6 human partners:{Q9UJC3;Q86VS8;Q96ED9;Q9H8T0;Q15075;Q8N612}

5785 Pathogen[ P03383] interacts with 4 human partners:{Q8N612;Q9H8T0;Q86VS8;Q96ED9}

5786 Pathogen[ P03410] interacts with 5 human partners:{Q9UJC3;Q9H8T0;Q86VS8;Q96ED9;Q8N612}

5787 Pathogen[ P14075] interacts with 4 human partners:{Q8N612;Q9H8T0;Q86VS8;Q96ED9}

5788 Pathogen[ P0C206] interacts with 5 human partners:{Q9H8T0;Q86VS8;Q96ED9;Q8N612;Q9UJC3}

5789 Pathogen[ P03363] interacts with 6 human partners:{Q86VS8;Q96ED9;Q9H8T0;Q96NW4;Q8N612;Q9UJC3}

5790 [Cluster 527]GO:0046578+P biological\_process [name] regulation of Ras protein signal transduction [def] "Any process that modulates the frequency, rate or extent of Ras protein signal transduction." [GOC]

5791 Pathogen[ Q2Q067] interacts with 3 human partners:{Q08050;P37198;Q13501}

5792 Pathogen[ P0C214] interacts with 2 human partners:{Q13501;P37198}

5793 Pathogen[ P03346] interacts with 3 human partners:{Q08050;P37198;Q13501}

5794 Pathogen[ Q85601] interacts with 2 human partners:{Q08050;Q13501}

5795 Pathogen[ P14079] interacts with 2 human partners:{P37198;Q13501}

5796 Pathogen[ P03383] interacts with 2 human partners:{Q13501;P37198}

5797 Pathogen[ P03410] interacts with 1 human partners:{Q13501}

5798 Pathogen[ P14075] interacts with 3 human partners:{Q08050;P37198;Q13501}

5799 Pathogen[ P0C206] interacts with 2 human partners:{Q13501;Q08050}

5800 Pathogen[ P03363] interacts with 2 human partners:{Q08050;P37198}

5801 [Cluster 528]GO:0031123+P biological\_process [name] RNA 3'-end processing [def] "Any process involved in forming the mature 3' end of an RNA molecule." [GOC]

5802 Pathogen[ Q2Q067] interacts with 4 human partners: {Q5TAX3;Q9H9Z2;Q6ZN17;P51003}

5803 Pathogen[ P0C214] interacts with 4 human partners: {Q6ZN17;P51003;Q9H9Z2;Q5TAX3}

5804 Pathogen[ P03346] interacts with 4 human partners: {P51003;Q5TAX3;Q9H9Z2;Q6ZN17}

5805 Pathogen[ Q85601] interacts with 4 human partners: {Q6ZN17;Q5TAX3;P51003;Q9H9Z2}

5806 Pathogen[ P14079] interacts with 4 human partners: {Q9H9Z2;Q5TAX3;P51003;Q6ZN17}

5807 Pathogen[ P03383] interacts with 4 human partners: {P51003;Q9H9Z2;Q6ZN17;Q5TAX3}

5808 Pathogen[ P03410] interacts with 4 human partners: {Q5TAX3;P51003;Q9H9Z2;Q6ZN17}

5809 Pathogen[ P14075] interacts with 4 human partners: {P51003;Q9H9Z2;Q5TAX3;Q6ZN17}

5810 Pathogen[ P0C206] interacts with 4 human partners: {P51003;Q6ZN17;Q9H9Z2;Q5TAX3}

5811 Pathogen[ P03363] interacts with 4 human partners: {Q6ZN17;P51003;Q9H9Z2;Q5TAX3}

5812 [Cluster 529]GO:0032330+P biological\_process [name] regulation of chondrocyte differentiation [def] "Any process that modulates the frequency, rate or extent of chondrocyte differentiation." [GOC

5813 Pathogen[ Q2Q067] interacts with 2 human partners: {Q9UHF7;O75444}

5814 Pathogen[ P0C214] interacts with 2 human partners: {O75444;Q9UHF7}

5815 Pathogen[ P03346] interacts with 2 human partners: {Q9UHF7;O75444}

5816 Pathogen[ Q85601] interacts with 2 human partners: {Q9UHF7;O75444}

5817 Pathogen[ P14079] interacts with 4 human partners: {Q9Y6U3;O75444;Q92896;Q9UHF7}

5818 Pathogen[ P03383] interacts with 2 human partners: {O75444;Q9UHF7}

5819 Pathogen[ P03410] interacts with 4 human partners: {Q9UHF7;O75444;Q9Y6U3;Q92896}

5820 Pathogen[ P14075] interacts with 2 human partners: {O75444;Q9UHF7}

5821 Pathogen[ P0C206] interacts with 2 human partners: {O75444;Q9UHF7}

5822 Pathogen[ P03363] interacts with 2 human partners: {Q9UHF7;O75444}

5823 [Cluster 530]GO:0050732+P biological\_process [name] negative regulation of peptidyl-tyrosine phosphorylation [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the phosphorylation of peptidyl-tyrosine." [GOC

5824 Pathogen[ Q2Q067] interacts with 1 human partners: {Q9UJM3}

5825 Pathogen[ P0C214] interacts with 1 human partners: {Q9UJM3}

5826 Pathogen[ P03346] interacts with 2 human partners: {Q9NSI8;Q9UJM3}

5827 Pathogen[ Q85601] interacts with 1 human partners: {Q9UJM3}

5828 Pathogen[ P14079] interacts with 1 human partners: {Q9UJM3}

5829 Pathogen[ P03383] interacts with 1 human partners: {Q9UJM3}

5830 Pathogen[ P03410] interacts with 1 human partners: {Q9UJM3}

5831 Pathogen[ P14075] interacts with 1 human partners: {Q9UJM3}

5832 Pathogen[ P0C206] interacts with 1 human partners: {Q9UJM3}

5833 Pathogen[ P03363] interacts with 2 human partners: {Q9NSI8;Q9UJM3}

5834 [Cluster 531]GO:0006086+P biological\_process [name] acetyl-CoA biosynthetic process from pyruvate [def] "The chemical reactions and pathways resulting in the formation of acetyl-CoA from pyruvate." [GOC

5835 Pathogen[ Q2Q067] interacts with 1 human partners: {P10515}

5836 Pathogen[ P0C214] interacts with 3 human partners: {P11177;P09622;P10515}

5837 Pathogen[ P03346] interacts with 1 human partners: {P10515}

5838 Pathogen[ Q85601] interacts with 1 human partners: {P10515}

5839 Pathogen[ P14079] interacts with 1 human partners: {P10515}

5840 Pathogen[ P03383] interacts with 1 human partners: {P10515}

5841 Pathogen[ P03410] interacts with 1 human partners: {P10515}

5842 Pathogen[ P14075] interacts with 1 human partners: {P10515}

5843 Pathogen[ P0C206] interacts with 1 human partners: {P10515}

5844 Pathogen[ P03363] interacts with 1 human partners: {P10515}

5845 [Cluster 532]GO:0030488+P biological\_process [name] tRNA methylation [def] "The posttranscriptional addition of methyl groups to specific residues in a tRNA molecule." [GOC

5846 Pathogen[ Q2Q067] interacts with 4 human partners: {Q08J23;Q96FX7;Q32P41;Q9BVS5}

5847 Pathogen[ P0C214] interacts with 5 human partners: {Q96FX7;Q08J23;Q32P41;Q96BT7;Q9BVS5}

5848 Pathogen[ P03346] interacts with 5 human partners: {Q08J23;Q96FX7;Q32P41;Q9BVS5;Q96BT7}

5849 Pathogen[ Q85601] interacts with 4 human partners: {Q32P41;Q9BVS5;Q96FX7;Q08J23}

5850 Pathogen[ P14079] interacts with 4 human partners: {Q32P41;Q08J23;Q9BVS5;Q96FX7}

5851 Pathogen[ P03383] interacts with 4 human partners: {Q9BVS5;Q32P41;Q08J23;Q96FX7}

5852 Pathogen[ P03410] interacts with 4 human partners: {Q32P41;Q08J23;Q96FX7;Q9BVS5}

5853 Pathogen[ P14075] interacts with 4 human partners: {Q32P41;Q9BVS5;Q96FX7;Q08J23}

5854 Pathogen[ P0C206] interacts with 4 human partners: {Q08J23;Q32P41;Q96FX7;Q9BVS5}

5855 Pathogen[ P03363] interacts with 5 human partners: {Q32P41;Q08J23;Q96BT7;Q96FX7;Q9BVS5}

5856 [Cluster 533]GO:0030534+P biological\_process [name] adult behavior [def] "Behavior in a fully developed and mature organism." [GOC

5857 Pathogen[ Q2Q067] interacts with 1 human partners: {O15525}

5858 Pathogen[ P0C214] interacts with 1 human partners: {O15525}

5859 Pathogen[ P03346] interacts with 1 human partners: {O15525}

5860 Pathogen[ Q85601] interacts with 1 human partners: {O15525}

5861 Pathogen[ P14079] interacts with 2 human partners: {Q7Z2T5;O15525}

5862 Pathogen[ P03383] interacts with 1 human partners: {O15525}

5863 Pathogen[ P03410] interacts with 1 human partners: {O15525}

5864 Pathogen[ P14075] interacts with 1 human partners: {O15525}

5865 Pathogen[ P0C206] interacts with 1 human partners: {O15525}

- 5866 Pathogen[ P03363] interacts with 1 human partners:{O15525}
- 5867 [Cluster 534]GO:0005975+P biological\_process [name] carbohydrate metabolic process [def] "The chemical reactions and pathways involving carbohydrates, any of a group of organic compounds based of the general formula Cx(H2O)y. Includes the formation of carbohydrate derivatives by the addition of a carbohydrate residue to another molecule." [GOC
- 5868 Pathogen[ Q2Q067] interacts with 78 human partners:{Q86W56;Q96EE3;P31749;P52948;Q12769;Q96HA1;P07195;P49790;P49792;Q16775;P13929;O75694;P15121;P78406;P19367;O95336;P05062;P62140;P34949;Q99567;Q8N1F7;P41236;Q6NXS1;P37837;Q13522;Q7Z3B4;Q8NFH4;P35573;P12270;O95394;P60174;P36871;P11166;P32189;P07902;Q16851;Q9UIV1;Q9BW27;Q96G03;Q8TEM1;P46976;P09972;P54840;P36873;Q12904;Q9BVL2;P09467;P18669;P62136;P13807;Q9UKX7;P04406;Q9NRG9;Q8NFH3;P40925;P15259;P37198;Q9UQK1;Q92621;Q9BYZ2;P07738;O15504;P57740;P06744;O14556;P40926;P00338;Q8WUM0;Q9UBX3;P14672;P06733;P35658;P49247;Q8NFH5;Q6PCE3;P07864;Q5SRE5;Q14397}
- 5869 Pathogen[ P0C214] interacts with 115 human partners:{Q04446;Q14410;Q8IX04;Q96PQ5;P52209;P11413;Q12904;Q14409;Q8N335;Q8NFH5;P62140;Q6NXS1;P35558;Q16775;P07864;Q15486;P15259;O75390;Q5I0G3;Q8TEM1;Q9H227;P41236;P78406;P57740;Q99567;P29401;Q8N1F7;O75694;P48735;Q96EE3;P49792;Q9UKX7;Q86W56;Q6ZMR3;P40926;P32189;O75330;O14556;P35573;Q9BXD5;P46976;Q9UIV1;P05062;Q96C11;Q6PCE3;Q9Y2G5;P11166;Q9UBX3;O60825;P15121;P11168;O95685;P13929;Q96G03;P37837;P09467;P49790;Q96AT9;P50213;P37198;P36871;Q15124;Q9BW27;P14618;P09104;Q16851;O15488;Q99536;Q9NRG9;P35658;Q93100;Q13522;P62136;O95278;P19367;Q8NFH3;P06733;P09972;Q14397;Q16822;O15504;P34949;P07902;P54840;O95394;P36873;P12270;P16118;P60174;Q8NFH4;Q9BVL2;P07738;Q9BYZ2;P48163;Q5SRE5;P14672;P46020;O00757;Q7Z3B4;P13807;P04406;P49247;P00558;Q8WUM0;P52948;Q92621;P31749;P07195;P51553;Q12769;Q9UQK1;Q9H7J1;P21695;P16278;Q96HA1}
- 5870 Pathogen[ P03346] interacts with 84 human partners:{O75390;Q8TEM1;P62136;Q9UQK1;P09972;Q8NFH4;Q8WUM0;P13807;P12270;P04406;P49247;Q12769;Q96EE3;Q9UIV1;Q99567;Q9UKX7;O95685;P13929;Q9UBX3;O75694;O95336;Q9NRG9;P78406;P57740;Q9BVL2;Q8N1F7;P07738;P19367;P15121;P60174;Q9H7J1;Q13522;Q8NFH5;P09467;P35573;P37198;Q8NFH3;P35658;O75330;P46976;P36871;P06733;Q6PCE3;P37837;Q5SRE5;P16278;Q92621;P9BW27;P18669;Q12904;O14556;Q16851;Q8WVB3;P31749;P36873;P40926;P11166;P00338;Q14397;Q96G03;P54840;O95394;P07195;Q86W56;P34949;P15259;P32189;P49790;P06744;P05062;P62140;Q96HA1;P40925;Q16775;O95278;P41236;P14672;Q7Z3B4;Q8TDQ7;O15504;Q9BYZ2;P49792;P52948}
- 5871 Pathogen[ Q85601] interacts with 88 human partners:{Q8TEM1;Q5SRE5;P60174;P34949;P13807;P11168;P31749;Q8NFH4;Q8NFH3;Q6ZMR3;Q96EE3;Q15486;Q12769;Q9UBX3;Q9UQK1;O95336;P78406;P57740;O75330;Q9NRG9;P18669;O60825;Q9BXD5;Q8WUM0;Q8N1F7;P37837;Q9UIV1;P06733;O00757;P06744;P12270;P05062;P32189;P49247;O75694;O95278;P16118;P15259;O15504;Q16851;Q9BW27;P07864;P46976;P11166;P35573;O14556;Q92621;P14618;Q15124;P62136;P13929;P36873;P36871;P09972;Q9BYZ2;P52948;P41236;Q9UKX7;Q8NFH5;P15121;P09467;P35658;Q14397;Q04446;P40925;O95394;P07195;Q99567;Q6NXS1;P07902;P54840;Q6PCE3;P62140;P49792;P04406;Q9BVL2;Q96HA1;Q96PQ5;Q16775;P07738;P14672;Q7Z3B4;P00338;P49790;Q96G03;Q86W56;P40926;P19367}
- 5872 Pathogen[ P14079] interacts with 115 human partners:{P31751;O94923;Q8NFH5;A8MPS7;P15259;Q9BW27;Q96HA1;P16278;Q9H7J1;O43505;Q16851;P04066;P00338;P36873;P57740;Q8N1F7;Q14410;P35658;P52209;Q4G0N0;P14672;Q13522;P13807;P54802;Q92621;Q8TDQ7;P35475;P49247;Q8TEM1;P09972;Q93100;P62136;Q9NTJ4;P29401;P32189;Q96C23;P06744;Q96C11;Q9BRB3;Q9Y303;Q15124;Q14409;P11166;P06733;Q9P2X0;P07738;P06280;P41236;Q9UKX7;P07195;Q86XI6;O95394;Q9BVL2;Q9H488;O15504;Q9UL01;P46976;Q6ZMR3;Q8WUM0;P54803;P12270;O95685;Q04760;Q6P575;Q32M88;Q99567;Q6NXS1;P34949;P62140;Q9UQK1;P35573;P07864;Q8NFH3;Q96EE3;P37198;P49790;P46926;O95336;Q6PCE3;Q9BXD5;Q9UIV1;Q16775;P13929;P17050;Q8NFH4;P78406;Q7Z3B4;Q86W56;Q15486;P18669;Q14397;P07902;P21695;Q96G03;Q12904;P09467;O75330;Q12769;P40925;P54840;Q9Y2G5;Q9BYZ2;P36871;Q5SRE5;Q9NRG9;O75694;Q8WVB3;Q9UBM8;Q49AQ9;P46020;O15488;P52948;P04406;P37837;Q96PQ5}
- 5873 Pathogen[ P03383] interacts with 76 human partners:{Q9BVL2;Q96EE3;O15504;Q8WUM0;P62140;P34949;Q92621;P49792;Q8NFH4;Q96G03;Q12904;P40926;Q9UQK1;P12270;P19367;P00338;Q9BYZ2;P52948;P07902;P31749;P07864;P78406;P57740;Q8NFH5;P18669;P13807;P09467;P09972;Q8N1F7;P40925;P37837;P35573;P49247;Q8TEM1;Q13522;Q12769;Q6PCE3;P36873;P11168;P62136;Q99567;Q14397;P07738;Q16822;Q16851;P06744;Q9BW27;P46976;Q86W56;O14556;P07195;Q6ZMR3;Q6NXS1;P04406;Q9UIV1;P34949;Q9H7J1;Q16775;Q5SRE5;P35658;Q96HA1;O95394;Q9NRG9;P32189;P11169;P54840;P37198;Q9UKX7;P41236;P14672;P06733;Q7Z3B4;P49790;O75694;P15259;Q8NFH3;P22732}
- 5874 Pathogen[ P03410] interacts with 118 human partners:{Q99567;P54803;Q14397;P46976;Q7Z3B4;Q4G0N0;Q9BW27;Q9BYZ2;Q16822;P22732;O75330;Q8TDQ7;O14556;P06744;Q6PCE3;P04066;Q16851;P37837;P36871;Q9UKX7;P11166;P54840;Q96C11;Q8NFH4;P16118;P46020;Q5SRE5;P54802;P52948;Q14410;O15504;P07902;P11168;Q04446;P62136;P06733;P35573;Q9BXD5;Q6ZMR3;P34949;O95685;P16278;O75694;P31749;Q15124;P78406;Q96HA1;P05062;Q9UIV1;Q9H7J1;P09467;Q9UBX3;P07195;P41236;O00757;Q12904;Q8N1F7;P46926;P52209;Q93100;Q86XI6;Q15486;P49790;P09972;Q9NTJ4;P12270;Q13522;P62140;P07738;P35658;P00338;Q8NFH5;Q16775;Q8TEM1;P13807;Q9BRB3;P15259;Q96C23;P36873;Q96EE3;P04406;Q14409;P18669;O15488;Q86W56;Q96G03;A8MPS7;P13929;P40926;Q8WUM0;Q8WVB3;Q49AQ9;P07864;O95336;P40925;P32189;Q6P575;Q9UL01;Q96PQ5;Q32M88;P57740;Q04760;Q12769;Q9Y2G5;Q9H488;O95394;Q6NXS1;Q9NRG9;Q8NFH3;Q9P2X0;Q9BVL2;P49247;Q92621;O43505;O75390;P49792;P21695;Q9UQK1}
- 5875 Pathogen[ P14075] interacts with 84 human partners:{P11169;P06733;P40925;P06744;Q13522;P78406;P57740;P32189;Q16822;P34949;Q93100;P49792;Q8N1F7;P18669;P19367;P41236;P22732;Q96G03;Q9UKX7;P40926;P62140;P35658;P122

- 70;P46976;P54840;Q9BXD5;Q6NXS1;Q92621;P07195;Q9UQK1;Q6PCE3;P36873;P62136;Q96HA1;P16118;Q9BW27;P31749;P07902;P04406;O43505;Q12904;Q8TEM1;Q96C11;Q96EE3;P37198;P07864;Q9Y2G5;Q5SRE5;O95336;P35573;Q14397;Q8NFH3;P00338;O95394;O15504;P09972;P15259;P49247;Q9BYZ2;Q99567;Q12769;P11168;P13807;Q86W56;O95685;Q9BVL2;P49790;Q8WUM0;O75330;P07738;Q9UIV1;P14672;P37837;O75694;Q9NRG9;P09467;Q7Z3B4;Q8NFH4;Q16851;Q8NFH5;O14556;Q16775;Q9H7J1;P52948}
- 5876 Pathogen[ P0C206] interacts with 112 human partners: {P06733;Q96EE3;Q16851;Q92621;P07195;Q6NXS1;P05062;P49790;Q6ZMR3;P07864;P31749;Q5SRE5;Q8NFH5;Q93100;Q9NRG9;Q6P575;P50213;P46976;P60174;Q96G03;P41236;Q7Z3B4;Q9UQK1;Q9UIV1;Q04446;P09467;O95394;Q96HA1;Q16822;Q9UBX3;Q04760;P57740;P34949;P11166;P19367;P32189;A8MPS7;P13807;Q15124;Q9UL01;Q49AQ9;Q16775;Q6PCE3;P46020;Q8WUM0;P54840;P11168;P49792;Q13522;Q8TEM1;P06744;Q9UKX7;Q86W56;Q8WVB3;O14556;O75330;Q96C23;O75694;Q86XI6;Q8TDQ7;P40925;O00757;O95278;Q15486;P04406;P40926;P07902;Q99567;P62140;O60825;Q8NFH4;O95336;Q96C11;P16278;P09972;Q96PQ5;O75390;P16118;P14672;Q9BYZ2;P78406;Q14397;P46926;O15504;P15121;Q12769;P49247;P07738;O95685;Q8NFH3;P36873;Q9BXD5;P00338;Q8N1F7;P13929;P37837;P35658;Q9Y2G5;Q9H7J1;Q9BW27;P18669;Q12904;P14618;P62136;Q9BVL2;P36871;O43505;P15259;O15488;P12270;P29401;P35573}
- 5877 Pathogen[ P03363] interacts with 59 human partners: {Q7Z3B4;P62136;P13807;P06744;Q5SRE5;P12270;P18669;P36873;Q16851;Q8NFH4;P62140;Q14397;P40925;P41236;Q8NFH3;Q12769;P06733;P09972;Q9UKX7;Q13522;Q9BYZ2;Q6NXS1;Q9NRG9;Q8WUM0;Q9BVL2;Q99567;P31749;P37837;P04406;Q96HA1;P49792;P35658;P54840;O75694;P49790;P57740;Q9UQK1;Q9UIV1;O95336;P14672;P78406;Q86W56;Q8WVB3;P52948;O15504;Q6PCE3;P37198;O14556;P35573;Q8N1F7;Q92621;Q8NFH5;P46976;P15259;P11166;Q9BW27;Q96G03;Q9BXD5;Q8TDQ7}
- 5878 [Cluster 535]GO:0050687+P biological\_process [name] negative regulation of defense response to virus [def] "Any process that stops, prevents or reduces the rate or extent of antiviral mechanisms, thereby facilitating viral replication." [GOC
- 5879 Pathogen[ Q2Q067] interacts with 2 human partners: {Q96J02;Q15366}
- 5880 Pathogen[ P0C214] interacts with 2 human partners: {Q96J02;Q15366}
- 5881 Pathogen[ P03346] interacts with 2 human partners: {Q96J02;Q15366}
- 5882 Pathogen[ Q85601] interacts with 2 human partners: {Q96J02;Q15366}
- 5883 Pathogen[ P14079] interacts with 2 human partners: {Q15366;Q96J02}
- 5884 Pathogen[ P03383] interacts with 1 human partners: {Q15366}
- 5885 Pathogen[ P03410] interacts with 1 human partners: {Q15366}
- 5886 Pathogen[ P14075] interacts with 1 human partners: {Q15366}
- 5887 Pathogen[ P0C206] interacts with 2 human partners: {Q96J02;Q15366}
- 5888 Pathogen[ P03363] interacts with 1 human partners: {Q15366}
- 5889 [Cluster 536]GO:0006836+P biological\_process [name] neurotransmitter transport [def] "The directed movement of a neurotransmitter into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore. Neurotransmitters are any chemical substance that is capable of transmitting (or inhibiting the transmission of) a nerve impulse from a neuron to another cell." [GOC
- 5890 Pathogen[ Q2Q067] interacts with 1 human partners: {Q05084}
- 5891 Pathogen[ P0C214] interacts with 1 human partners: {Q05084}
- 5892 Pathogen[ P03346] interacts with 1 human partners: {Q05084}
- 5893 Pathogen[ Q85601] interacts with 1 human partners: {Q05084}
- 5894 Pathogen[ P14079] interacts with 5 human partners: {O14810;Q05084;Q6PUV4;Q8WVH0;Q7Z7G2}
- 5895 Pathogen[ P03383] interacts with 1 human partners: {Q05084}
- 5896 Pathogen[ P03410] interacts with 5 human partners: {O14810;Q8WVH0;Q05084;Q7Z7G2;Q6PUV4}
- 5897 Pathogen[ P14075] interacts with 1 human partners: {Q05084}
- 5898 Pathogen[ P0C206] interacts with 3 human partners: {Q7Z7G2;Q6PUV4;Q05084}
- 5899 Pathogen[ P03363] interacts with 1 human partners: {Q05084}
- 5900 [Cluster 537]GO:0045039+P biological\_process [name] protein import into mitochondrial inner membrane [def] "The process comprising the import of proteins into the mitochondrion from outside the organelle and their insertion into the mitochondrial inner membrane. The translocase of the outer membrane complex mediates the passage of these proteins across the outer membrane, after which they are guided by either of two inner membrane translocase complexes into their final destination in the inner membrane." [GOC
- 5901 Pathogen[ Q2Q067] interacts with 4 human partners: {O60220;Q9Y5J6;P62072;Q9Y5J7}
- 5902 Pathogen[ P0C214] interacts with 5 human partners: {O60220;P62072;Q9Y5J9;Q9Y5J6;Q9Y5J7}
- 5903 Pathogen[ P03346] interacts with 4 human partners: {Q9Y5J7;Q9Y5J6;O60220;P62072}
- 5904 Pathogen[ Q85601] interacts with 5 human partners: {P62072;Q9Y5J9;Q9Y5J6;O60220;Q9Y5J7}
- 5905 Pathogen[ P14079] interacts with 5 human partners: {P62072;Q9Y5J7;O60220;Q9Y5J9;Q9Y5L4}
- 5906 Pathogen[ P03383] interacts with 5 human partners: {Q9Y5J7;P62072;O60220;Q9Y5J6;Q9Y5J9}
- 5907 Pathogen[ P03410] interacts with 6 human partners: {Q9Y5L4;P62072;Q9Y5J7;Q9Y5J6;Q9Y5J9;O60220}
- 5908 Pathogen[ P14075] interacts with 5 human partners: {Q9Y5J9;P62072;O60220;Q9Y5J7;Q9Y5J6}
- 5909 Pathogen[ P0C206] interacts with 6 human

partners:{Q9Y5L4;Q9Y5J6;O60220;Q9Y5J9;Q9Y5J7;P62072}

5910 Pathogen[ P03363] interacts with 1 human partners:{Q9Y5J7}

5911 [Cluster 538]GO:0006382+P biological\_process [name] adenosine to inosine editing [def] "The conversion of an adenosine residue to inosine in an RNA molecule by deamination." [PMID

5912 Pathogen[ Q2Q067] interacts with 1 human partners:{P55265}

5913 Pathogen[ P0C214] interacts with 1 human partners:{P55265}

5914 Pathogen[ P03346] interacts with 1 human partners:{P55265}

5915 Pathogen[ Q85601] interacts with 1 human partners:{P55265}

5916 Pathogen[ P14079] interacts with 1 human partners:{P55265}

5917 Pathogen[ P03383] interacts with 1 human partners:{P55265}

5918 Pathogen[ P03410] interacts with 1 human partners:{P55265}

5919 Pathogen[ P14075] interacts with 1 human partners:{P55265}

5920 Pathogen[ P0C206] interacts with 1 human partners:{P55265}

5921 Pathogen[ P03363] interacts with 1 human partners:{P55265}

5922 [Cluster 539]GO:0051091+P biological\_process [name] positive regulation of sequence-specific DNA binding transcription factor activity [def] "Any process that activates or increases the frequency, rate or extent of activity of a transcription factor, any factor involved in the initiation or regulation of transcription." [GOC

5923 Pathogen[ Q2Q067] interacts with 26 human partners:{Q13562;P31749;Q9H4X1;P56524;Q12888;Q12933;P52657;P63279;Q9Y4Z2;P11831;Q9UQL6;Q15173;Q8N0Z2;O14641;P51532;Q14865;Q16514;Q9HBH7;Q12824;Q02577;P23497;O00463;P15923;Q15651;P53567;Q8N9B5}

5924 Pathogen[ P0C214] interacts with 24 human partners:{P53567;Q9H4X1;Q8N0Z2;Q15651;Q14865;Q12824;P52657;Q9HBH7;P56524;P11831;P63279;Q15173;P15923;O14641;Q12933;Q16514;P23497;Q8N9B5;Q02577;Q12888;O00463;Q9UQL6;P31749;P51532}

5925 Pathogen[ P03346] interacts with 30 human partners:{Q12888;O00463;Q9Y4Z2;Q8N0Z2;Q9H4X1;Q8N9B5;P11831;Q9HBH7;P51532;P15923;P56524;Q92886;Q12824;P63279;P78426;O14641;O95096;P31749;P52657;Q16514;Q14865;P23497;P53567;Q15651;Q15173;Q13562;Q02577;Q9UQL6;Q8N9B4;Q9H2A3}

5926 Pathogen[ Q85601] interacts with 25 human partners:{P52657;P11831;Q9H4X1;P31749;Q9Y4Z2;Q9UQL6;O00463;P53567;Q15173;Q15651;P63279;Q12888;Q13562;P51532;O14641;Q12933;Q02577;Q16514;Q9HBH7;Q14865;P15923;P56524;Q8N0Z2;Q12824;Q8N9B5}

5927 Pathogen[ P14079] interacts with 22 human partners:{Q9UQL6;O00463;P63279;Q15173;P53567;Q8N9B5;O14641;P51532;Q14865;P15923;P23497;Q7Z434;Q15651;Q9HBH7;P52657;Q8N0Z2;Q12933;Q02577;Q12824;Q12888;P56524;Q16514}

5928 Pathogen[ P03383] interacts with 22 human partners:{Q02577;Q12888;P11831;Q9H4X1;Q12824;Q9UQL6;Q15173;P31749;P15923;Q15651;P52657;O14641;Q12933;Q9HBH7;Q16514;Q8N0Z2;P23497;P56524;Q8N9B5;P51532;P53567;P63279}

5929 Pathogen[ P03410] interacts with 25 human partners:{P11831;Q9H4X1;Q15173;P53567;P31749;Q15651;P15923;P52657;Q7Z434;Q9UQL6;Q16514;O00463;Q9NRR1;P56524;Q9HBH7;Q12933;P51532;Q12888;Q8N9B5;P63279;Q02577;Q8N0Z2;Q12824;Q14865;O14641}

5930 Pathogen[ P14075] interacts with 22 human partners:{Q9H4X1;Q02577;P23497;P52657;P11831;P51532;P53567;P56524;P63279;P15923;Q8N0Z2;P31749;O14641;Q9HBH7;Q12933;Q15173;Q16514;Q12824;Q9UQL6;Q12888;Q8N9B5;Q15651}

5931 Pathogen[ P0C206] interacts with 24 human partners:{P53567;Q16514;P31749;Q9H4X1;P51532;Q9Y4Z2;P52657;Q15173;Q12824;Q12933;Q8N9B5;Q15651;Q12888;P15923;Q9HBH7;O00463;Q13562;P11831;Q14865;P56524;Q02577;Q8N0Z2;Q9H2A3;Q9UQL6}

5932 Pathogen[ P03363] interacts with 26 human partners:{Q92886;Q9Y4Z2;Q14865;Q9H4X1;P53567;P51532;Q16514;Q9HBH7;Q12933;O00463;Q9UQL6;P23497;Q8N0Z2;P52657;P15923;P11831;P31749;Q15173;P63279;Q15651;O14641;Q8N9B5;Q12824;Q12888;Q02577;Q9H2A3}

5933 [Cluster 540]GO:0002474+P biological\_process [name] antigen processing and presentation of peptide antigen via MHC class I [def] "The process in which an antigen-presenting cell expresses a peptide antigen on its cell surface in association with an MHC class I protein complex. Class I here refers to classical class I molecules." [GOC

5934 Pathogen[ Q2Q067] interacts with 49 human partners:{Q99460;O75832;P48556;P40306;P55036;O00231;O00233;P51665;P55735;P28072;A5LHX3;Q13200;P25787;Q06323;P28065;O14818;P27797;Q14997;P60900;Q9UL46;P61289;P53992;O95486;P28062;Q9UNM6;P25788;O94855;Q92530;P25786;Q16401;O00232;P28074;P25789;P0CG47;P20618;P0CG48;P49459;O95487;P28070;P28066;Q99436;Q8TAA3;P62987;O43242;P49721;P49720;Q13867;Q15436;P62979}

5935 Pathogen[ P0C214] interacts with 51 human partners:{Q14997;P51665;P55735;P25789;P55036;P28062;A5LHX3;P53992;P28065;O14818;Q13867;O43242;P49459;P48556;P40306;Q13200;Q15436;O00232;Q99460;P28066;O75832;O95487;P49720;P28074;P0CG48;Q9UL46;P25788;Q9UNM6;O00231;Q06323;P25786;P28072;Q8TAA3;P62987;Q99436;P27797;P0CG47;P25787;P35998;P60900;O00233;P62979;Q92530;Q15008;O95486;P28070;P20618;P49721;Q16401;P17980;O94855}

5936 Pathogen[ P03346] interacts with 49 human partners:{P25787;P55735;P28070;P25789;P55036;Q99460;Q9UL46;P62987;P28072;P25788;P28074;P49721;O14818;Q99436;P0CG48;Q16401;A5LHX3;P28062;P49459;P20618;O00232;O94855;O758

- 32;O00233;Q15436;P49720;P28065;P60900;P25786;O00231;P61289;O95486;P62979;P27797;P28066;Q9UNM6;Q13867;Q8TAA3;P0CG47;Q14997;Q13200;P48556;O95487;P51665;Q06323;Q92530;O43242;P53992;P40306}
- 5937 Pathogen[ Q85601] interacts with 45 human  
partners: {P28066;Q9UNM6;P60900;P55036;P25787;O95487;P61289;P25788;O75832;P27797;P0CG48;Q15436;Q13867;P25789;O00233;P20618;P40306;P49720;P28062;P49721;P55735;P25786;P28072;Q13200;P49459;P28065;O95486;P62979;Q99436;P28070;Q8TAA3;Q9UL46;Q99460;O00231;P0CG47;P48556;P28074;Q92530;P62987;A5LHX3;O94855;Q06323;O14818;P53992;Q16401}
- 5938 Pathogen[ P14079] interacts with 54 human  
partners: {P28065;Q99436;P62333;P48556;P60468;P0CG48;O95487;P40306;P13498;P55036;P28074;O00232;P49720;O00487;P25787;O94855;O75832;P29144;A5LHX3;P53992;P62979;O00233;P35998;P61289;P62987;P51665;P20618;Q8TAA3;Q14997;P28062;P60900;Q9UNM6;Q13867;P49459;Q99460;O14818;P49721;P60059;Q92530;Q06323;P62191;P55735;Q15008;P43686;O43242;P25788;O00231;P28066;O95486;Q9UL46;P0CG47;Q16401;P17980;P28072}
- 5939 Pathogen[ P03383] interacts with 45 human  
partners: {P55036;P62987;P55735;P25789;P60900;O95487;P40306;O00233;P49721;Q06323;O95486;Q14997;P20618;Q15436;O75832;O94855;Q13867;Q9UL46;Q9UNM6;P25786;Q99460;P28072;Q13200;P28065;P28066;Q16401;P62979;O00231;P0CG47;P53992;P49459;P0CG48;P28074;Q92530;P49720;Q8TAA3;P61289;P28062;P48556;O14818;Q99436;P28070;P25787;P27797;P25788}
- 5940 Pathogen[ P03410] interacts with 53 human  
partners: {P28070;P55036;P0CG48;P60468;P25786;P60059;Q15008;Q16401;O94855;P53992;P60900;Q14997;P35998;Q99460;O00233;O00232;Q13867;P49459;Q8TAA3;P48556;P49721;A5LHX3;P62979;Q99436;P40306;Q06323;Q15436;Q13200;P25787;P28062;O95486;P51665;O14818;O00231;Q9UNM6;P25789;P49720;P62987;P28072;P55735;P25788;P28066;P28065;O43242;P0CG47;P17980;O75832;P20618;O95487;Q9UL46;P28074;P61289;P27797}
- 5941 Pathogen[ P14075] interacts with 44 human  
partners: {P55036;P25788;P28066;Q06323;O75832;Q8TAA3;P60900;O00233;Q9UL46;P49720;P49459;Q13200;P48556;Q16401;P28070;P53992;P49721;P55735;O00231;Q92530;O95487;P0CG48;P62979;P28062;P28074;P28065;P27797;P25786;O14818;P62987;P28072;Q15436;Q13867;Q14997;P0CG47;P25787;P20618;O94855;Q9UNM6;P61289;P40306;Q99436;O95486;P25789}
- 5942 Pathogen[ P0C206] interacts with 49 human  
partners: {P61289;Q99436;P28062;Q9UNM6;P0CG48;O75832;P27797;P40306;P28065;Q14997;P55036;P25786;O94855;P25788;P29144;P25787;Q06323;P49720;O00232;P60900;P55735;O43242;A5LHX3;P25789;Q13867;O95486;P20618;Q13200;Q8TAA3;P28070;P49459;O95487;Q99460;P62979;P28066;O14818;P0CG47;P28072;P28074;Q92530;P49721;P53992;P62987;Q9UL46;O00233;P48556;Q16401;O00231;Q15436}
- 5943 Pathogen[ P03363] interacts with 12 human  
partners: {P49459;Q92530;Q15436;P61289;O95486;Q13867;P27797;P62987;P53992;O95487;P55735;O94855}
- 5944 [Cluster 541]GO:0043066+P biological\_process [name] negative regulation of apoptotic process [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of cell death by apoptotic process." [GOC
- 5945 Pathogen[ Q2Q067] interacts with 134 human  
partners: {P04156;Q13562;O95411;Q96J02;P22392;Q6FI81;O75832;P31749;Q99502;Q9HBZ2;Q7Z6J0;P16594;P63104;Q9NS56;P55265;O15519;Q9BUP3;Q8IVG9;P01106;P46937;Q9Y3T9;Q12982;P35680;P38646;P41182;Q01664;Q9UDY8;O43255;Q96TA1;O00273;P20749;O00257;O60543;Q04206;O60238;Q13547;Q13257;O15379;Q99933;Q14192;Q9BWW4;P06748;P15976;Q96ST3;O15350;Q9NY61;Q8TDY2;Q96GX9;P02511;P08107;Q14457;P04792;Q86YC2;P63241;Q86UE4;P35227;P23528;O95521;P63146;P62714;P35548;Q5VWM6;O14508;P40337;P56693;Q99728;P51948;P51959;Q9UBF6;P84022;O76095;Q92843;Q15468;Q8IYF3;Q92769;O43715;Q17LG56;O43541;P29474;Q9HBUL8;Q5VWM5;O14746;P35226;Q9H160;Q9HB75;O75030;Q5SWL7;P38936;P50453;P37198;Q99687;Q8WWQ0;P19838;P78395;O95865;O43504;O75360;Q86VP1;Q12983;Q9Y2M5;Q9NR09;P16989;Q9HBM6;O95817;Q15714;Q9HCK8;O43318;P27986;Q9BQE4;P13010;Q15121;P02489;P46527;O60810;P78318;Q13490;O60809;P18583;P22681;Q00987;P05783;Q96EY1;O15392;Q9NYV6;O60936;Q9H1Y0;O14879;Q16548;P28715;P14625;P78543;O95429}
- 5946 Pathogen[ P0C214] interacts with 147 human  
partners: {P22681;Q14457;P29474;Q9BWW4;Q96J02;Q9Y3T9;P35226;Q13257;Q7Z6J0;P35227;O95817;P14625;P16989;O14746;Q99728;Q5TYX0;P05783;Q13547;Q13490;Q5SWL7;P78318;P19838;P78543;P13010;P02489;O14879;P02511;O60543;P06748;Q00987;P51959;Q9NS56;O15350;A6NGN4;Q9UDY8;P55265;P56693;P46937;P04792;P84022;P46527;O43715;Q04206;Q96GX9;Q15121;Q8TDY2;Q5JVF3;Q9BUL8;O75030;P78395;O60813;P05121;P63241;Q9NY61;O43318;P52565;P38936;Q16594;O60810;Q86UE4;Q5VWM6;Q5VTA0;Q9HBZ2;O15519;P62714;Q16548;P28715;O75832;O00273;P98170;Q9BUP3;P18583;P37198;P51948;O95865;Q99933;Q9HBM6;Q86VP1;Q12982;Q8WWQ0;Q9Y2M5;Q9HD36;Q92769;Q15468;P20749;O00257;Q9H160;Q96TA1;P40337;Q15714;Q9HCK8;P38646;P42574;Q9BZZ5;P10809;Q14192;O95411;Q99687;P41182;O95429;O43541;O15379;Q9HB75;O14508;Q9NYV6;Q9BRT3;O75360;Q86YC2;Q12983;P50453;Q92843;O15392;P05412;Q9H1Y0;O43504;P04156;P10909;P05120;O60238;Q96ST3;P42765;Q9NR09;Q92614;P22392;Q9BQE4;Q5VWM5;Q7LG56;Q6FI81;Q5SWL8;O95521;Q5VXH4;P08107;O43255;Q96CA5;Q01664;P27986;Q8IYF3;Q5VWM1;P01106;Q9UBF6;P35548;Q96EY1;P63146;P31749;O60936;P18054;Q99502}
- 5947 Pathogen[ P03346] interacts with 170 human  
partners: {P08107;Q06945;Q96ST3;Q96J02;P05412;O75603;P46937;P28715;Q99687;P55273;P05783;O15392;Q86UE4;P55265;P06748;P29474;Q13489;Q5VWM5;P14625;P35548;P07148;Q7Z6J0;O15379;P02489;Q9BUP3;Q99728;P35226;Q92614;O60238;Q9UDY8;P07992;Q49MI3;P20264;P56693;P13010;O43255;Q12981;P35227;Q04206;P18054;Q8IVG9;P98170;P18583;P23759;Q14457;P42574;Q8IYF3;O00257;P16989;P62714;O15350;Q99502;P63241;O75030;P37198;P52565;O60810;Q12983;Q92843;O60809;O14508;Q00987;O15519;Q9Y371;O75832;P01106;Q9BRT3;Q9BWW4;P38646;Q9NS

- 56;P84022;Q5VTA0;P02511;Q7LG56;O43541;Q96TA1;Q9NQS1;P15976;P31749;P78395;O95863;P63146;Q92769;Q14192;Q9HB75;O14879;Q13547;O95817;Q9HBM6;Q8WWQ0;Q9HCK8;O14746;Q9BZZ5;Q9NY61;Q15121;P35680;Q9Y3T9;Q12778;O95865;O95411;P22392;Q86YC2;Q07820;Q9HBZ2;P78367;Q8N157;P50453;Q9NQ03;P41182;P40337;O43504;P20749;Q92481;O60936;Q15151;P63104;Q9NYV6;Q9UBR4;P42765;Q16548;Q9NR09;P04156;Q13490;Q9H1Y0;Q9HC24;P19838;P22681;O75360;Q9H7C9;P51959;P38936;P23528;O43318;Q9Y2M5;O76095;Q6F181;O95429;Q12982;Q5SWL8;O95521;Q5VWM1;Q13562;P46527;Q96CA5;Q5VWM6;O43715;Q15468;O60543;P78543;Q9HD36;Q9H160;Q9BUL8;Q8TD22;Q01664;P51948;Q9UBF6;Q86VP1;Q96EY1;P78318;P04792;Q96GX9;Q15714;P27986;Q13257;Q99933;O00273;O95379;Q5SWL7;Q16594}
- 5948 Pathogen[ Q85601] interacts with 145 human partners: {Q14457;P01106;Q96J02;P02489;O43715;P63104;O75360;P08107;Q92614;P22681;Q9NS56;P55273;P31749;Q86VP1;Q13490;P63146;Q99687;P15976;P62714;Q8IYF3;Q9HD36;O14879;O15151;Q9NY61;Q5VTA0;Q16548;O43541;Q9BUL8;O60813;Q9UDY8;P40337;O75030;O75832;Q12982;O60810;Q99728;Q9BZZ5;Q12981;O60936;Q15121;P98170;Q8TDY2;O15392;Q5SWL7;Q6FI81;P51948;P63241;P51959;P52565;Q16594;Q15714;Q96GX9;O14508;Q13257;P27986;Q5VXH4;Q13562;Q9HBM6;P28715;Q7Z6J0;Q96TA1;Q7LG56;P05783;Q99933;O60543;P78543;Q92769;Q9UBF6;Q9H1Y0;Q04206;P02511;Q99502;Q8WWQ0;Q14192;Q92843;Q9BWW4;P35548;O00273;P35680;P05412;P06748;P22392;Q86YC2;Q86UE4;P05121;Q9HB75;Q9HBZ2;P50453;P56693;P55265;P29474;P84022;Q9Y3T9;Q9HCK8;P05120;O76095;O14746;Q9NYV6;Q12983;P14625;O15379;P18583;P38646;Q9NR09;P04156;P46937;P04792;P35226;Q9Y2M5;O15350;Q13547;Q5TYX0;P38936;P23528;P41182;O43318;Q5VWM5;O00257;Q5SWL8;O43255;Q5VWM1;Q9H160;Q00987;Q96CA5;O60238;Q5VWM6;P19838;Q95429;P16989;Q95817;P78395;Q9BUP3;Q01664;O15519;Q96EY1;P20749;P78318;A6NGN4;P13010;O95865;Q9BQE4;P46527;Q5VT98;P35227;Q96ST3}
- 5949 Pathogen[ P14079] interacts with 174 human partners: {P31751;P04083;O15379;Q9BW72;P51959;P52565;O14746;P78543;Q12982;Q9NVQ4;Q9NYV6;Q99502;O60811;P28715;Q9BQE4;Q16548;A3QJZ6;Q8TDZ2;Q16594;Q14192;O15519;Q5VXH5;O43597;Q92614;P09912;O95817;Q15714;Q8TDY2;P35680;Q9NY61;P13010;Q96ST3;O60543;Q9UBF6;P02511;P04156;O76095;Q8N157;O95429;Q8IVG9;Q9HC24;Q5SWL7;O15392;O75832;P15976;Q5VWM3;Q8WWQ0;P10909;Q5VT98;Q9BUL8;P46937;Q86YC2;O43715;Q9Y371;P02489;A6NGN4;Q9H1Y0;O15350;Q7LG56;P55273;Q9NR09;Q6FI81;Q00987;Q9BUP3;P63104;Q99687;Q5TYX0;P45983;P40337;P08758;Q9Y3T9;P54826;P41182;Q5VWM6;A6NMV5;O00257;O95379;Q4760;Q94760;P22392;P22392;O95521;P55265;Q92769;P23528;Q5VWM5;O95522;Q15121;Q8N201;Q5VTA0;Q9BWW4;P38936;Q9BRT3;O60809;Q9HD36;P09525;Q99933;P08107;P48681;Q96GX9;Q13257;Q12981;Q5VWM4;O75360;Q15468;Q9Y2M5;Q01664;P37198;Q9HCK8;P46695;O60936;P04141;Q5JVJF3;Q12983;P13232;Q9NS56;Q86UE4;Q96J02;Q9NQ03;P06748;P01106;P50453;P61803;P05783;P56693;O43541;P63241;P35226;P14625;Q5SWL8;O15038;O60813;P35227;P20749;P38646;P46527;Q13164;P78395;P15941;Q9HBZ2;O43504;Q96TA1;A6NMC2;Q9H7C9;Q5VXH4;P05412;Q96JY0;P04792;O75030;O95411;Q14457;O60238;P28360;Q9BZZ5;Q5VWM1;O15151;P18583;O14879;P63146;Q9HB75;O60810;Q9NQS1;P78318;Q96EY1;Q8IYF3;P07992;Q9H160;O95865;Q9HBM6;P13693;Q5TYW8;O00273;Q13490;Q92843;P51948}
- 5950 Pathogen[ P03383] interacts with 115 human partners: {P35227;P08107;Q14457;Q13257;O14879;P27986;P16989;Q9NY61;Q5TYX0;O60809;Q9NYV6;P06748;P13010;P29474;O95865;O60543;P51948;Q86UE4;P40337;P04156;P38646;P01106;Q9BWW4;P31749;O75360;P20749;O00257;Q13490;P02511;Q15714;P62714;P22392;O60810;O75030;Q9HBM6;Q15468;Q9BZZ5;O60936;Q15121;Q86VP1;Q8TDY2;P04792;P05783;P63241;Q9H1Y0;Q12983;O43318;Q01664;Q9Y3T9;Q5SWL7;Q96GX9;O75832;Q8IYF3;Q16594;P78543;P84022;Q9H160;O60238;P18583;Q96TA1;O00273;P63104;P35548;Q9BQE4;Q14192;P46527;P51959;Q99687;Q92769;Q9UBF6;O43715;P78395;Q16548;O43541;O14746;O95411;P14625;O15379;O15350;O60813;O43255;P50453;Q5VXH4;Q13547;Q99933;O43504;Q9HCK8;Q9BUL8;Q9BUP3;Q8WWQ0;Q9NR09;Q04206;P78318;P55265;Q5VWM6;Q86YC2;Q9Y2M5;Q96ST3;P63146;P23528;P37198;O76095;Q5VWM5;P19838;P56693;P46937;Q9NQ03;Q96EY1;O95521;O95429;Q8IVG9;Q6FI81;P35226;Q9HB75;P05412}
- 5951 Pathogen[ P03410] interacts with 174 human partners: {P84022;Q9BRT3;Q99933;Q9BZZ5;P20749;Q9HC24;Q04206;P62714;O15392;Q15714;P04141;P19838;Q96TA1;P46527;Q9BW72;P27986;P05121;Q15121;Q9HB75;Q5VWM4;Q5SWL7;Q5VXH5;O43504;Q12983;Q9H1Y0;O43597;Q5SWL8;O15151;P38646;P15941;P01106;P16989;P07992;Q99502;O14746;A6NGN4;P78318;Q5TYW8;Q16548;Q8TDZ2;O60811;P15941;Q92614;Q5VWM1;Q9BUL8;O75030;O15151;P14625;Q15468;Q13490;Q9NY61;Q14457;Q8TDY2;O00273;P55273;O60813;O95379;P09912;O95865;Q9HD36;Q92843;P31749;P04792;Q99687;Q9Y3T9;P06748;O60809;Q8IVG9;A3QJZ6;Q5VWM6;P55265;P28715;O95817;P35227;Q96ST3;Q9BQE4;O95521;Q86VP1;P42765;Q9HBZ2;Q9UBF6;Q9NYV6;Q9NR09;O43318;Q8N201;O43715;Q5VWM5;P35548;P29474;O60936;O60810;Q8WWQ0;Q9HBM6;P38936;Q92769;O14508;P02489;P51959;P08107;Q7Z6J0;P78395;O95429;Q86UE4;P02511;O15379;Q5JVJF3;Q8N157;Q5VT98;Q9H160;P63146;Q9BUP3;Q9Y371;P13693;Q9HCK8;P04156;P56693;P18583;Q5VXH4;P46937;P41182;Q16594;Q96GX9;P05412;O43541;P50453;Q6FI81;P63104;P51948;P54826;Q9H7C9;P78543;Q13547;Q01664;A6NMC2;P35680;P13010;Q12982;O95522;O95411;P63241;O15350;Q9UBY8;O60543;P46695;Q00987;O76095;O00257;O75360;P23528;O14879;Q4760;Q94760;Q8IYF3;A6NMV5;P35226;Q5VTA0;P52565;P61803;Q86YC2;P05783;Q9NQS1;Q5TYX0;Q14192;Q96EY1;P15976;Q7LG56;Q5VWM3;O60238;Q9Y2M5;O75832;P40337;P10909;Q13257;P13232}
- 5952 Pathogen[ P14075] interacts with 119 human partners: {Q14457;Q5VWM1;Q9BZZ5;Q9BQE4;P29474;Q5SWL7;Q99933;Q96ST3;Q9BUP3;Q96GX9;Q12983;O00273;Q04206;Q8WWQ0;P16989;Q99687;P05783;O75030;P55265;O14746;P05412;O75832;Q9HB75;O60809;Q9NYV6;Q9BWW4;Q86UE4;P78395;O76095;P51959;Q9H1Y0;O43541;Q86YC2;Q9NY61;P35548;Q5VXH4;O60813;Q15714;Q13257;O95521;P04156;Q8TDY2;Q16548;P04792;Q8IVG9;P56693;P63241;P38646;Q13547;Q16594;P01106;P46527;Q96TA1;O43255;P23528;O00257;P31749;Q86VP1;Q01664;Q13490;O95865;O15350;Q92769;P78543;Q9NQS1;O60543;Q9HCK8;O60238;O43318;P27986;Q5VWM5;P37198;Q5TYX0;P78318;P63104;P06748;O75360;P02511;P50453;P02511;O14879;O15379;O43504;Q9Y3T9;P08107;Q15468;Q9NR09;P46937;P35226;O43715;P19838;O60810;Q99502;Q5VWM6;P63146;P13010;P84022;Q9Y2M5;O60936;Q6FI81;Q15121;P40337;P14625;Q5VTA0;Q9H160;P548



- 26;P18583;Q14192;Q9UBF6;O95411;P22392;Q96EY1;Q8IYF3;P35227;O95429;P20749;P51948;Q9HB  
M6}
- 5953 Pathogen[ P0C206] interacts with 171 human  
partners: {P46937;Q12982;P84022;O43541;Q92769;Q9NS56;Q15468;Q9HCK8;P28715;P13010;O758  
32;A3QJZ6;Q96ST3;P55265;P31749;Q9BUP3;P78318;Q7Z6J0;Q6FI81;O43255;P04156;Q9UDY8;P185  
83;Q9HD36;P05030;Q86YC2;P22392;Q9BZZ5;Q5VXH4;P78395;Q99933;Q86VP1;Q15121;P41182;P352  
26;P52565;P05412;Q96J02;O14879;Q14457;O43318;Q96TA1;Q5VWM5;Q13547;P04792;Q7LGS6;P981  
70;O60813;Q5VWM3;Q04760;P56693;P50453;P15976;A6NGN4;Q5TYX0;Q5JVF3;Q13257;Q9H160;P279  
86;P38646;Q8WWQ0;O15519;O95865;O43504;P07992;O75360;Q9UBF6;Q5TYW8;Q16548;A6NMV5;O602  
38;O43715;P63104;Q9NQ03;Q12983;O15151;O60936;P19838;Q92843;Q9BQE4;Q5VTA0;P22681;Q9NR  
09;P16989;Q5SWL7;Q5VT98;O95429;O15379;Q9H1Y0;P51959;Q9BWW4;P35680;P35548;Q04206;Q8IV  
G9;O14508;Q99728;P05783;P55273;P46527;Q8TDY2;P10909;Q9BUL8;Q8N157;P38936;P08107;P627  
14;Q92614;P42574;O15392;O43597;Q13489;Q9HB75;O95411;Q13562;Q96GX9;P29474;Q12981;P632  
41;Q01664;Q99502;O95521;P20749;O95379;Q9HC24;Q5VWM1;P05121;O60810;O95817;O60809;O153  
50;Q8IYF3;Q99687;Q9HBM6;Q86UE4;Q5VWM6;Q96CA5;Q14192;Q9UBR4;Q9Y2M5;P01106;P06748;O002  
57;O60543;Q00987;P02511;P54826;P02489;Q8TDZ2;Q96EY1;Q5SWL8;Q9NY61;P23528;Q9NYV6;Q9Y3  
T9;O00273;Q15714;Q9NQS1;Q9BRT3;Q8N201;Q9HBZ2;O14746;O76095;P40337;P51948;P14625;P631  
46;P78543;P35227;Q16594;Q13490}
- 5954 Pathogen[ P03363] interacts with 133 human  
partners: {P22681;Q86VP1;P05783;Q9H160;Q9BUL8;Q13490;Q9BZZ5;P29474;O00273;O60543;Q9BU  
P3;O60809;O75360;Q9NQS1;P62714;Q8WWQ0;Q04206;O15519;P52565;Q15468;O95411;P35227;Q9NV  
Q4;P13010;Q14457;O15379;Q9H7C9;Q9UBF6;Q15121;P78543;P35548;Q9HBZ2;O15151;Q6FI81;P783  
95;O43318;P50453;O14746;P04156;P63146;Q86UE4;P40337;P01106;Q16548;P06748;O14879;O435  
04;O95817;O60813;Q9NZN9;Q9NQ03;P63104;P20749;Q9HD36;Q9HB75;Q9NY61;Q9HCK8;P46937;P566  
93;P20264;P18583;P08107;Q8N157;Q9NR09;O75030;Q9Y2M5;Q9NYV6;P31749;Q5SWL7;Q13489;Q96J  
Y0;P35226;P38646;Q96ST3;Q92843;O43541;O95379;P78318;P84022;P98170;Q8TDY2;P55265;Q5VW  
M6;Q13257;P23528;Q9Y3T9;Q13547;P23759;P19838;O76095;O60936;Q92614;Q9HBM6;P63241;O958  
65;P51959;Q5VXH4;P78367;Q7Z6J0;Q99687;Q07820;Q96CA5;O60810;Q15714;Q8IVG9;P05412;Q96G  
X9;Q9BWW4;P16989;O14508;P02489;Q99728;O95521;Q96TA1;O95429;P37198;O43255;Q96EY1;Q49M  
I3;O43715;O60238;O00257;P27986;Q5VWM5;Q99933;P04792;Q01664;Q12982;Q5TYX0;Q9H1Y0;Q86Y  
C2;Q16594;Q14192}
- 5955 [Cluster 542]GO:0006200+P biological\_process [name] ATP catabolic process [def]  
"The chemical reactions and pathways resulting in the breakdown of ATP, adenosine  
5'-triphosphate, a universally important coenzyme and enzyme regulator." [GOC
- 5956 Pathogen[ Q2Q067] interacts with 19 human  
partners: {Q6VMQ6;O75351;Q6NVH7;Q14204;Q9UHC1;O76031;P07900;Q96S55;P54278;Q96Q89;P128  
83;Q9UKV3;Q15257;Q9ULG1;Q86WJ1;P35579;Q8NE71;Q9NTK5;P24539}
- 5957 Pathogen[ P0C214] interacts with 30 human  
partners: {Q14527;A8MQ11;Q96S55;Q6VMQ6;O75351;Q9UI12;P53396;Q14204;Q9ULG1;Q15257;P365  
42;O76031;Q8NE71;O43681;Q96Q89;Q9UHC1;P24539;P10809;O60264;Q6NVH7;P12883;P13533;Q9UK  
V3;P54278;P35998;P40692;Q9NTK5;Q15008;Q86WJ1;P55072}
- 5958 Pathogen[ P03346] interacts with 23 human  
partners: {P07900;P35579;Q14527;Q9ULG1;Q15257;Q14204;P55072;Q9UKV3;O76031;Q9UHC1;Q9NT  
K5;Q96S55;P24539;Q6VMQ6;O60264;Q96Q89;P54278;Q6NVH7;Q8NE71;O75351;Q86WJ1;P54277;Q9NR  
D5}
- 5959 Pathogen[ Q85601] interacts with 26 human  
partners: {Q9NTK5;P24539;P13533;P35579;A8MQ11;Q6NVH7;Q14204;O43681;Q96Q89;O75351;Q9UK  
V3;Q9ULG1;P12883;P07900;Q8NE71;Q96S55;P54278;Q9UHC1;O76031;Q86WJ1;P40692;O60264;Q6VM  
Q6;P19447;Q14527;Q15257}
- 5960 Pathogen[ P14079] interacts with 40 human  
partners: {P36542;P35579;P62333;Q9ULG1;P56134;P25705;P40692;Q14204;P54278;P56385;Q9UH  
C1;P35998;A8MQ11;Q6NVH7;P68032;Q6VMQ6;P03928;Q9UKV3;O43681;Q96Q89;Q96S55;Q8NE71;Q86W  
J1;P07900;O60264;O95744;P12883;P54277;Q9NTK5;O75964;P62191;Q9UI12;P56381;Q15008;O753  
51;P43686;O76031;P52701;P24539;P19447}
- 5961 Pathogen[ P03383] interacts with 15 human  
partners: {P54278;Q15257;Q6NVH7;Q8NE71;Q9NTK5;Q9UHC1;Q6VMQ6;P07900;Q96S55;Q9UKV3;Q96Q  
89;P12883;O76031;P35579;P24539}
- 5962 Pathogen[ P03410] interacts with 41 human  
partners: {Q14204;P40692;Q96Q89;Q8NE71;P36542;Q15008;P25705;O75351;P35998;P54277;Q9NT  
K5;Q15257;Q9ULG1;P35579;P56385;P07900;Q96S55;Q6NVH7;Q6VMQ6;P56381;O60333;O76031;Q9NR  
D5;Q9UKV3;P52701;P03928;P19447;P12883;Q9UI12;P24539;O95744;O75964;Q86WJ1;A8MQ11;P135  
33;P54278;O60264;O43681;P18859;P56134;Q9UHC1}
- 5963 Pathogen[ P14075] interacts with 15 human  
partners: {Q15257;Q9UKV3;O76031;P07900;Q9NTK5;Q9UHC1;Q6VMQ6;Q8NE71;P35579;P24539;P542  
78;P56385;Q6NVH7;Q96S55;Q96Q89}
- 5964 Pathogen[ P0C206] interacts with 34 human  
partners: {P54278;Q6VMQ6;Q96Q89;P13533;P52701;O43681;P36542;P40692;Q9UHC1;A8MQ11;P194  
47;P54277;Q14204;P12883;Q9ULG1;P07900;Q9UI12;Q96S55;P24539;P35579;P55072;Q9NTK5;Q145  
27;Q8NE71;Q86WJ1;P56381;Q6NVH7;O76031;O75351;Q9NRD5;P56385;Q15257;Q9UKV3;O60264}
- 5965 Pathogen[ P03363] interacts with 21 human  
partners: {Q6VMQ6;P07900;Q9ULG1;P35579;Q9UKV3;Q9UHC1;Q9NTK5;Q14204;O60264;O75351;P542  
78;Q14527;P54277;O76031;Q96S55;Q15257;Q8NE71;Q6NVH7;Q96Q89;O60333;Q86WJ1}
- 5966 [Cluster 543]GO:000226+P biological\_process [name] microtubule cytoskeleton  
organization [def] "A process that is carried out at the cellular level which results  
in the assembly, arrangement of constituent parts, or disassembly of cytoskeletal  
structures comprising microtubules and their associated proteins." [GOC

5967 Pathogen[ Q2Q067] interacts with 31 human partners: {Q8WW24;Q8WZ33;P54252;Q6VN20;Q9P219;Q96RT8;Q7Z460;Q96SN8;O95359;Q15532;Q96RT7;Q9UBK9;Q9BSJ2;O15265;P04406;P12036;Q9NRI5;P23258;O75410;Q14244;Q9UGJ1;O95613;Q86VS8;Q66K74;P18583;Q96M29;P60510;Q96ED9;P07197;Q8IYK2;Q96CW5}

5968 Pathogen[ POC214] interacts with 31 human partners: {Q9BSJ2;Q9NRI5;Q96ED9;Q96SN8;Q8WW24;P23258;Q96CW5;Q96RT7;Q9UGJ1;O95359;P60510;Q86VS8;P18583;Q14244;Q96RT8;Q15532;O75410;P12036;Q7Z460;O15265;Q8WZ33;Q6VN20;P07197;O95613;Q9P219;Q9UBK9;Q96M29;P04406;P54252;Q66K74;Q8IYK2}

5969 Pathogen[ P03346] interacts with 37 human partners: {O95166;Q8IYK2;Q9NRI5;O15265;P04406;Q86VS8;P23258;Q96RT8;O75410;Q9UIF3;O95359;Q8WZ33;Q66K74;P18583;Q96M29;Q96CW5;Q8TEW0;Q9P219;Q15532;P07197;P12036;Q8N960;Q96SN8;Q6VN20;Q9UGJ1;Q96ED9;Q14244;Q9BSJ2;Q7Z460;O95613;Q96RT7;A6NC98;Q9UBK9;Q8WW24;P60510;Q9UJC3;P54252}

5970 Pathogen[ Q85601] interacts with 33 human partners: {Q15532;Q86VS8;O15265;Q96RT8;O95166;Q14244;P12036;Q96SN8;Q66K74;Q96CW5;Q8WZ33;Q6VN20;P54252;P23258;Q9P219;Q9BXF9;Q9BSJ2;Q8WW24;Q9UGJ1;Q96M29;P07197;P60510;Q9NRI5;P18583;Q7Z460;P04406;O95613;Q9UBK9;Q96ED9;Q9GZM8;O75410;O95359;Q96RT7}

5971 Pathogen[ P14079] interacts with 42 human partners: {Q6VN20;O95166;Q8WZ33;Q15532;Q9UJC3;Q7Z460;O95359;Q8IYK2;Q9Y6A5;Q86VS8;Q96ED9;Q66K74;Q9UGJ1;P12036;P54252;Q9BXF9;Q9NRI5;P68363;Q14244;Q96M29;Q8N960;Q8TEW0;P07197;Q96RT8;P23258;Q9UBK9;Q96RT7;Q9BSJ2;Q9GZM8;Q8WW24;Q969V4;O95613;O75410;P60510;Q9UIF3;O15265;P18583;Q96SN8;Q9P219;Q96CW5;P10636;P04406}

5972 Pathogen[ P03383] interacts with 23 human partners: {Q14244;Q8WZ33;Q7Z460;Q9BSJ2;Q9NRI5;P12036;Q96SN8;O75410;Q96CW5;Q15532;Q96M29;P54252;P18583;O15265;Q8IYK2;P07197;P04406;Q8WW24;Q86VS8;Q96ED9;O95613;Q9UBK9;P60510}

5973 Pathogen[ P03410] interacts with 43 human partners: {Q7Z460;Q8N960;Q9P219;Q9UJC3;O95359;Q8IYK2;P12036;Q9BXF9;Q9GZM8;P60510;A6NC98;Q96SN8;P54252;Q86VS8;Q9Y6A5;Q9UIF3;Q9UBK9;O95166;Q6VN20;Q8WZ33;Q96ED9;P18583;O75410;Q66K74;Q9BSJ2;P04406;P10636;Q9NRI5;Q96RT8;P23258;P68363;Q8TEW0;O15265;Q96CW5;Q96RT7;O95613;Q15532;Q14244;Q969V4;Q96M29;Q9UGJ1;O43237;P07197}

5974 Pathogen[ P14075] interacts with 22 human partners: {O15265;O75410;Q15532;Q7Z460;P60510;Q96SN8;Q9NRI5;P54252;P12036;P04406;Q9UBK9;Q8IYK2;P07197;Q8WZ33;Q86VS8;O95613;Q96M29;Q9BSJ2;P18583;Q96CW5;Q96ED9;Q14244}

5975 Pathogen[ POC206] interacts with 41 human partners: {O95359;Q96SN8;P18583;Q96RT7;Q96CW5;Q9UIF3;Q8WZ33;O15265;Q15532;O43237;P10636;P54252;Q9GZM8;Q9UGJ1;Q66K74;Q86VS8;Q96ED9;Q14244;P30291;O75410;Q8TEW0;P12036;Q6VN20;O95613;Q9Y6A5;Q9P219;Q9NRI5;P04406;P23258;Q9BXF9;Q96M29;Q9UBK9;Q9UJC3;P60510;Q7Z460;Q8IYK2;Q9BSJ2;Q8N960;O95166;Q8WW24;P07197}

5976 Pathogen[ P03363] interacts with 40 human partners: {O75410;Q86VS8;P07197;Q14244;Q96ED9;Q66K74;Q8WZ33;Q8IYK2;Q969V4;O95613;P68363;A6NC98;P54252;Q15532;Q96M29;Q9UBK9;Q9BXF9;P18583;Q96RT8;P04406;O15265;Q7Z460;P60510;Q9UIF3;Q96RT7;Q9NRI5;Q9UGJ1;O95359;Q6VN20;P12036;P23258;Q9P219;O43237;O95166;Q9BSJ2;Q8WW24;Q96CW5;Q96SN8;Q8N960;Q9UJC3}

5977 [Cluster 544]GO:0060575+P biological\_process [name] intestinal epithelial cell differentiation [def] "The process in which a relatively unspecialized cell acquires specialized features of a columnar/cuboidal epithelial cell of the intestine." [GOC

5978 Pathogen[ Q2Q067] interacts with 2 human partners: {Q9BWX5;Q9H4B6}

5979 Pathogen[ POC214] interacts with 1 human partners: {Q9H4B6}

5980 Pathogen[ P03346] interacts with 2 human partners: {Q9BWX5;Q9H4B6}

5981 Pathogen[ Q85601] interacts with 2 human partners: {Q9BWX5;Q9H4B6}

5982 Pathogen[ P14079] interacts with 2 human partners: {Q9BWX5;Q9H4B6}

5983 Pathogen[ P03383] interacts with 1 human partners: {Q9H4B6}

5984 Pathogen[ P03410] interacts with 2 human partners: {Q9BWX5;Q9H4B6}

5985 Pathogen[ P14075] interacts with 1 human partners: {Q9H4B6}

5986 Pathogen[ POC206] interacts with 2 human partners: {Q9BWX5;Q9H4B6}

5987 Pathogen[ P03363] interacts with 2 human partners: {Q9BWX5;Q9H4B6}

5988 [Cluster 545]GO:0021895+P biological\_process [name] cerebral cortex neuron differentiation [def] "The process in which a relatively unspecialized cell acquires specialized features of a neuron residing in the cerebral cortex." [GO\_REF

5989 Pathogen[ Q2Q067] interacts with 1 human partners: {P47928}

5990 Pathogen[ POC214] interacts with 1 human partners: {P47928}

5991 Pathogen[ P03346] interacts with 2 human partners: {P50542;P47928}

5992 Pathogen[ Q85601] interacts with 1 human partners: {P47928}

5993 Pathogen[ P14079] interacts with 2 human partners: {P50542;P47928}

5994 Pathogen[ P03383] interacts with 1 human partners: {P47928}

5995 Pathogen[ P03410] interacts with 2 human partners: {P47928;P50542}

5996 Pathogen[ P14075] interacts with 1 human partners: {P47928}

5997 Pathogen[ POC206] interacts with 2 human partners: {P50542;P47928}

5998 Pathogen[ P03363] interacts with 1 human partners: {P47928}

5999 [Cluster 546]GO:0043154+P biological\_process [name] negative regulation of cysteine-type endopeptidase activity involved in apoptotic process [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of a cysteine-type endopeptidase activity involved in the apoptotic process." [GOC

6000 Pathogen[ Q2Q067] interacts with 15 human partners: {P31749;Q7Z6J0;O43255;P02511;O43715;O75190;O43541;P50453;O43504;P06744;P024

89;P78318;P22736;Q96EY1;O15392}  
6001 Pathogen[ P0C214] interacts with 14 human partners: {Q7Z6J0;P78318;P02489;P02511;O75190;O43715;P98170;O43541;P50453;O15392;O43504;O43255;Q96EY1;P31749}  
6002 Pathogen[ P03346] interacts with 21 human partners: {P55273;O15392;O75190;P07148;Q7Z6J0;P02489;O43255;P98170;P02511;O43541;P22736;P31749;P50453;O43504;Q92481;P06744;O43715;Q8TDZ2;Q96EY1;P78318;O95379}  
6003 Pathogen[ Q85601] interacts with 16 human partners: {P02489;O43715;P55273;P31749;O75190;O43541;P98170;P06744;O15392;Q7Z6J0;P02511;P22736;P50453;O43255;Q96EY1;P78318}  
6004 Pathogen[ P14079] interacts with 20 human partners: {P31751;P09327;Q8TDZ2;P09912;P02511;O15392;P22736;P06744;O43715;O75190;P02489;P55273;O95379;Q8N201;P50453;O43541;Q15011;O43504;P78318;Q96EY1}  
6005 Pathogen[ P03383] interacts with 11 human partners: {P31749;P02511;O75190;P06744;O43715;O43541;O43255;P50453;O43504;P78318;Q96EY1}  
6006 Pathogen[ P03410] interacts with 20 human partners: {O15392;P06744;O43504;P78318;Q8TDZ2;P55273;O95379;P09912;P31749;Q8N201;O43715;P02489;Q7Z6J0;O75190;P02511;P22736;O43541;P50453;Q15011;Q96EY1}  
6007 Pathogen[ P14075] interacts with 12 human partners: {P06744;O43541;O43255;P31749;P78318;P02511;P50453;O43504;O75190;O43715;Q15011;Q96EY1}  
6008 Pathogen[ P0C206] interacts with 21 human partners: {O43541;P31749;P78318;Q7Z6J0;O43255;P98170;P50453;P22736;O43504;O43715;P06744;Q15011;P55273;O15392;O95379;P02511;P02489;Q8TDZ2;Q96EY1;Q8N201;O75190}  
6009 Pathogen[ P03363] interacts with 14 human partners: {O75190;P06744;P50453;O43504;P31749;O43541;O95379;P78318;P98170;Q7Z6J0;P02489;O43255;Q96EY1;O43715}  
6010 [Cluster 547]GO:0000212+P biological\_process [name] meiotic spindle organization [def] "A process that is carried out at the cellular level which results in the assembly, arrangement of constituent parts, or disassembly of the microtubule spindle during a meiotic cell cycle." [GOC  
6011 Pathogen[ Q2Q067] interacts with 3 human partners: {Q14674;P23258;P35579}  
6012 Pathogen[ P0C214] interacts with 2 human partners: {P23258;Q14674}  
6013 Pathogen[ P03346] interacts with 3 human partners: {P23258;P35579;Q14674}  
6014 Pathogen[ Q85601] interacts with 3 human partners: {P35579;Q14674;P23258}  
6015 Pathogen[ P14079] interacts with 3 human partners: {P35579;Q14674;P23258}  
6016 Pathogen[ P03383] interacts with 2 human partners: {Q14674;P35579}  
6017 Pathogen[ P03410] interacts with 3 human partners: {P35579;Q14674;P23258}  
6018 Pathogen[ P14075] interacts with 2 human partners: {P35579;Q14674}  
6019 Pathogen[ P0C206] interacts with 3 human partners: {P35579;P23258;Q14674}  
6020 Pathogen[ P03363] interacts with 3 human partners: {P35579;Q14674;P23258}  
6021 [Cluster 548]GO:0046689+P biological\_process [name] response to mercury ion [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a mercury ion stimulus." [GOC  
6022 Pathogen[ Q2Q067] interacts with 2 human partners: {P15259;P06132}  
6023 Pathogen[ P0C214] interacts with 3 human partners: {P50440;P06132;P15259}  
6024 Pathogen[ P03346] interacts with 2 human partners: {P06132;P15259}  
6025 Pathogen[ Q85601] interacts with 2 human partners: {P15259;P06132}  
6026 Pathogen[ P14079] interacts with 3 human partners: {P15259;P06132;P50440}  
6027 Pathogen[ P03383] interacts with 2 human partners: {P06132;P15259}  
6028 Pathogen[ P03410] interacts with 3 human partners: {P06132;P15259;P50440}  
6029 Pathogen[ P14075] interacts with 3 human partners: {P06132;P15259;P50440}  
6030 Pathogen[ P0C206] interacts with 3 human partners: {P50440;P06132;P15259}  
6031 Pathogen[ P03363] interacts with 2 human partners: {P06132;P15259}  
6032 [Cluster 549]GO:0042304+P biological\_process [name] regulation of fatty acid biosynthetic process [def] "Any process that modulates the frequency, rate or extent of the chemical reactions and pathways resulting in the formation of fatty acids, any of the aliphatic monocarboxylic acids that can be liberated by hydrolysis from naturally occurring fats and oils." [GOC  
6033 Pathogen[ Q2Q067] interacts with 1 human partners: {Q9NP71}  
6034 Pathogen[ P0C214] interacts with 1 human partners: {Q9NP71}  
6035 Pathogen[ P03346] interacts with 1 human partners: {Q9NP71}  
6036 Pathogen[ Q85601] interacts with 1 human partners: {Q9NP71}  
6037 Pathogen[ P14079] interacts with 1 human partners: {Q9NP71}  
6038 Pathogen[ P03383] interacts with 1 human partners: {Q9NP71}  
6039 Pathogen[ P03410] interacts with 1 human partners: {Q9NP71}  
6040 Pathogen[ P14075] interacts with 1 human partners: {Q9NP71}  
6041 Pathogen[ P0C206] interacts with 1 human partners: {Q9NP71}  
6042 Pathogen[ P03363] interacts with 1 human partners: {Q9NP71}  
6043 [Cluster 550]GO:0060750+P biological\_process [name] epithelial cell proliferation involved in mammary gland duct elongation [def] "The multiplication or reproduction of mammary gland branch epithelial cells, resulting in the elongation of the branch. The mammary gland branch differs from the bud in that it is not the initial curved portion of the outgrowth." [GOC

6044 Pathogen[ Q2Q067] interacts with 1 human partners:{Q92754}  
6045 Pathogen[ P0C214] interacts with 1 human partners:{Q92754}  
6046 Pathogen[ P03346] interacts with 1 human partners:{Q92754}  
6047 Pathogen[ Q85601] interacts with 1 human partners:{Q92754}  
6048 Pathogen[ P14079] interacts with 1 human partners:{Q92754}  
6049 Pathogen[ P03383] interacts with 1 human partners:{Q92754}  
6050 Pathogen[ P03410] interacts with 1 human partners:{Q92754}  
6051 Pathogen[ P14075] interacts with 1 human partners:{Q92754}  
6052 Pathogen[ P0C206] interacts with 1 human partners:{Q92754}  
6053 Pathogen[ P03363] interacts with 1 human partners:{Q92754}  
6054 [Cluster 551]GO:0046330+P biological\_process [name] positive regulation of JNK cascade [def] "Any process that activates or increases the frequency, rate or extent of signal transduction mediated by the JNK cascade." [GOC  
6055 Pathogen[ Q2Q067] interacts with 5 human partners:{P08697;Q16890;Q969S3;P60953;O43318}  
6056 Pathogen[ P0C214] interacts with 5 human partners:{P08697;Q969S3;P60953;O43318;Q16890}  
6057 Pathogen[ P03346] interacts with 5 human partners:{Q969S3;P60953;Q16890;Q9BUZ4;O43318}  
6058 Pathogen[ Q85601] interacts with 5 human partners:{Q16890;P08697;Q969S3;P60953;O43318}  
6059 Pathogen[ P14079] interacts with 5 human partners:{Q16890;Q9BUZ4;Q9Y239;Q969S3;Q99836}  
6060 Pathogen[ P03383] interacts with 5 human partners:{P60953;P08697;O43318;Q16890;Q969S3}  
6061 Pathogen[ P03410] interacts with 6 human partners:{Q9Y239;Q969S3;O43318;P08697;P60953;Q16890}  
6062 Pathogen[ P14075] interacts with 5 human partners:{P60953;Q969S3;Q16890;O43318;P08697}  
6063 Pathogen[ P0C206] interacts with 6 human partners:{Q16890;O43318;Q9BUZ4;Q969S3;P60953;P08697}  
6064 Pathogen[ P03363] interacts with 5 human partners:{O43318;Q16890;Q9BUZ4;P60953;Q969S3}  
6065 [Cluster 552]GO:0030388+P biological\_process [name] fructose 1,6-bisphosphate metabolic process [def] "The chemical reactions and pathways involving fructose 1,6-bisphosphate, also known as FBP. The D enantiomer is a metabolic intermediate in glycolysis and gluconeogenesis." [ISBN  
6066 Pathogen[ Q2Q067] interacts with 2 human partners:{P05062;P09972}  
6067 Pathogen[ P0C214] interacts with 2 human partners:{P05062;P09972}  
6068 Pathogen[ P03346] interacts with 2 human partners:{P09972;P05062}  
6069 Pathogen[ Q85601] interacts with 2 human partners:{P05062;P09972}  
6070 Pathogen[ P14079] interacts with 1 human partners:{P09972}  
6071 Pathogen[ P03383] interacts with 1 human partners:{P09972}  
6072 Pathogen[ P03410] interacts with 2 human partners:{P05062;P09972}  
6073 Pathogen[ P14075] interacts with 1 human partners:{P09972}  
6074 Pathogen[ P0C206] interacts with 2 human partners:{P05062;P09972}  
6075 Pathogen[ P03363] interacts with 1 human partners:{P09972}  
6076 [Cluster 553]GO:0043461+P biological\_process [name] proton-transporting ATP synthase complex assembly [def] "The aggregation, arrangement and bonding together of a proton-transporting ATP synthase (also known as F-type ATPase), a two-sector ATPase found in the inner membrane of mitochondria and chloroplasts, and in bacterial plasma membranes." [GOC  
6077 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8N5M1}  
6078 Pathogen[ P0C214] interacts with 1 human partners:{Q8N5M1}  
6079 Pathogen[ P03346] interacts with 1 human partners:{Q8N5M1}  
6080 Pathogen[ Q85601] interacts with 1 human partners:{Q8N5M1}  
6081 Pathogen[ P14079] interacts with 1 human partners:{Q8N5M1}  
6082 Pathogen[ P03383] interacts with 1 human partners:{Q8N5M1}  
6083 Pathogen[ P03410] interacts with 1 human partners:{Q8N5M1}  
6084 Pathogen[ P14075] interacts with 1 human partners:{Q8N5M1}  
6085 Pathogen[ P0C206] interacts with 1 human partners:{Q8N5M1}  
6086 Pathogen[ P03363] interacts with 1 human partners:{Q8N5M1}  
6087 [Cluster 554]GO:0043496+P biological\_process [name] regulation of protein homodimerization activity [def] "Any process that modulates the frequency, rate or extent of protein homodimerization, interacting selectively with an identical protein to form a homodimer." [GOC  
6088 Pathogen[ Q2Q067] interacts with 2 human partners:{Q8IUC6;Q05084}  
6089 Pathogen[ P0C214] interacts with 2 human partners:{Q8IUC6;Q05084}  
6090 Pathogen[ P03346] interacts with 2 human partners:{Q05084;Q8IUC6}  
6091 Pathogen[ Q85601] interacts with 2 human partners:{Q8IUC6;Q05084}  
6092 Pathogen[ P14079] interacts with 3 human partners:{Q05084;Q8IUC6;Q96BJ3}  
6093 Pathogen[ P03383] interacts with 3 human partners:{Q8IUC6;Q05084;Q96BJ3}  
6094 Pathogen[ P03410] interacts with 3 human partners:{Q05084;Q96BJ3;Q8IUC6}  
6095 Pathogen[ P14075] interacts with 3 human partners:{Q96BJ3;Q8IUC6;Q05084}  
6096 Pathogen[ P0C206] interacts with 3 human partners:{Q96BJ3;Q8IUC6;Q05084}  
6097 Pathogen[ P03363] interacts with 1 human partners:{Q05084}

6098 [Cluster 555]GO:0048598+P biological\_process [name] embryonic morphogenesis [def] "The process in which anatomical structures are generated and organized during the embryonic phase. The embryonic phase begins with zygote formation. The end of the embryonic phase is organism-specific. For example, it would be at birth for mammals, larval hatching for insects and seed dormancy in plants." [GOC

6099 Pathogen[ Q2Q067] interacts with 2 human partners:{O60315;Q9NYF0}

6100 Pathogen[ P0C214] interacts with 2 human partners:{O60315;Q9NYF0}

6101 Pathogen[ P03346] interacts with 3 human partners:{O60315;Q9NYF0;Q15363}

6102 Pathogen[ Q85601] interacts with 2 human partners:{O60315;Q9NYF0}

6103 Pathogen[ P14079] interacts with 4 human partners:{O60315;Q15363;P54826;Q9NYF0}

6104 Pathogen[ P03383] interacts with 1 human partners:{Q9NYF0}

6105 Pathogen[ P03410] interacts with 3 human partners:{Q15363;Q9NYF0;P54826}

6106 Pathogen[ P14075] interacts with 2 human partners:{Q9NYF0;P54826}

6107 Pathogen[ P0C206] interacts with 4 human partners:{O60315;Q9NYF0;Q15363;P54826}

6108 Pathogen[ P03363] interacts with 2 human partners:{O60315;Q9NYF0}

6109 [Cluster 556]GO:0021557+P biological\_process [name] oculomotor nerve development [def] "The process whose specific outcome is the progression of the oculomotor nerve over time, from its formation to the mature structure. This motor nerve innervates all extraocular muscles except the superior oblique and the lateral rectus muscles. The superior division supplies the levator palpebrae superioris and superior rectus muscles. The inferior division supplies the medial rectus, inferior rectus and inferior oblique muscles. This nerve also innervates the striated muscles of the eyelid. Pupillary constriction and lens movement are mediated by this nerve for near vision. In the orbit the inferior division sends branches that enter the ciliary ganglion where they form functional contacts (synapses) with the ganglion cells. The ganglion cells send nerve fibers into the back of the eye where they travel to ultimately innervate the ciliary muscle and the constrictor pupillae muscle." [GO\_REF

6110 Pathogen[ Q2Q067] interacts with 1 human partners:{Q5TGS1}

6111 Pathogen[ P0C214] interacts with 1 human partners:{Q5TGS1}

6112 Pathogen[ P03346] interacts with 1 human partners:{Q5TGS1}

6113 Pathogen[ Q85601] interacts with 1 human partners:{Q5TGS1}

6114 Pathogen[ P14079] interacts with 1 human partners:{Q5TGS1}

6115 Pathogen[ P03383] interacts with 1 human partners:{Q5TGS1}

6116 Pathogen[ P03410] interacts with 1 human partners:{Q5TGS1}

6117 Pathogen[ P14075] interacts with 1 human partners:{Q5TGS1}

6118 Pathogen[ P0C206] interacts with 1 human partners:{Q5TGS1}

6119 Pathogen[ P03363] interacts with 1 human partners:{Q5TGS1}

6120 [Cluster 557]GO:0045806+P biological\_process [name] negative regulation of endocytosis [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of endocytosis." [GOC

6121 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8TAC9}

6122 Pathogen[ P0C214] interacts with 1 human partners:{Q8TAC9}

6123 Pathogen[ P03346] interacts with 3 human partners:{Q92622;Q9UKS6;Q8TAC9}

6124 Pathogen[ Q85601] interacts with 1 human partners:{Q8TAC9}

6125 Pathogen[ P14079] interacts with 3 human partners:{Q9UKS6;Q8TAC9;Q92622}

6126 Pathogen[ P03383] interacts with 1 human partners:{Q8TAC9}

6127 Pathogen[ P03410] interacts with 2 human partners:{Q8TAC9;Q9UKS6}

6128 Pathogen[ P14075] interacts with 1 human partners:{Q8TAC9}

6129 Pathogen[ P0C206] interacts with 3 human partners:{Q92622;Q8TAC9;Q9UKS6}

6130 Pathogen[ P03363] interacts with 2 human partners:{Q92622;Q9UKS6}

6131 [Cluster 558]GO:0071375+P biological\_process [name] cellular response to peptide hormone stimulus [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a peptide hormone stimulus. A peptide hormone is any of a class of peptides that are secreted into the blood stream and have endocrine functions in living animals." [GOC

6132 Pathogen[ Q2Q067] interacts with 2 human partners:{P10914;P61244}

6133 Pathogen[ P0C214] interacts with 2 human partners:{P61244;P10914}

6134 Pathogen[ P03346] interacts with 3 human partners:{P78426;P10914;P61244}

6135 Pathogen[ Q85601] interacts with 2 human partners:{P10914;P61244}

6136 Pathogen[ P14079] interacts with 2 human partners:{P61244;P10914}

6137 Pathogen[ P03383] interacts with 2 human partners:{P10914;P61244}

6138 Pathogen[ P03410] interacts with 2 human partners:{P61244;P10914}

6139 Pathogen[ P14075] interacts with 2 human partners:{P61244;P10914}

6140 Pathogen[ P0C206] interacts with 2 human partners:{P10914;P61244}

6141 Pathogen[ P03363] interacts with 2 human partners:{P61244;P10914}

6142 [Cluster 559]GO:0035282+P biological\_process [name] segmentation [def] "The regionalization process that divides an organism or part of an organism into a series of semi-repetitive parts, or segments, often arranged along a longitudinal axis." [PMID

6143 Pathogen[ Q2Q067] interacts with 2 human partners:{O14641;Q96AP0}

6144 Pathogen[ P0C214] interacts with 1 human partners:{O14641}

6145 Pathogen[ P03346] interacts with 2 human partners:{Q96AP0;O14641}

6146 Pathogen[ Q85601] interacts with 1 human partners:{O14641}

6147 Pathogen[ P14079] interacts with 2 human partners:{O14641;Q96AP0}

6148 Pathogen[ P03383] interacts with 1 human partners:{O14641}

6149 Pathogen[ P03410] interacts with 2 human partners:{Q96AP0;O14641}

6150 Pathogen[ P14075] interacts with 2 human partners:{Q96AP0;O14641}

6151 Pathogen[ P0C206] interacts with 1 human partners:{Q96AP0}

6152 Pathogen[ P03363] interacts with 2 human partners:{Q96AP0;O14641}

6153 [Cluster 560]GO:0036092+P

6154 Pathogen[ Q2Q067] interacts with 2 human partners:{Q92562;P27986}

6155 Pathogen[ P0C214] interacts with 2 human partners:{Q92562;P27986}

6156 Pathogen[ P03346] interacts with 2 human partners:{Q92562;P27986}

6157 Pathogen[ Q85601] interacts with 2 human partners:{Q92562;P27986}

6158 Pathogen[ P14079] interacts with 3 human partners:{Q92562;Q96PE3;O15327}

6159 Pathogen[ P03383] interacts with 1 human partners:{P27986}

6160 Pathogen[ P03410] interacts with 4 human partners:{Q92562;P27986;Q96PE3;O15327}

6161 Pathogen[ P14075] interacts with 1 human partners:{P27986}

6162 Pathogen[ P0C206] interacts with 2 human partners:{Q92562;P27986}

6163 Pathogen[ P03363] interacts with 1 human partners:{P27986}

6164 [Cluster 561]GO:0042221+P biological\_process [name] response to chemical stimulus [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a chemical stimulus." [GOC

6165 Pathogen[ Q2Q067] interacts with 4 human partners:{P05062;O95999;P62714;Q9NVR5}

6166 Pathogen[ P0C214] interacts with 4 human partners:{Q9NVR5;P05062;P62714;O95999}

6167 Pathogen[ P03346] interacts with 4 human partners:{Q9NVR5;P62714;O95999;P05062}

6168 Pathogen[ Q85601] interacts with 4 human partners:{P62714;P05062;O95999;Q9NVR5}

6169 Pathogen[ P14079] interacts with 3 human partners:{Q9NVR5;O14828;O95999}

6170 Pathogen[ P03383] interacts with 3 human partners:{P62714;O95999;Q9NVR5}

6171 Pathogen[ P03410] interacts with 5 human partners:{P62714;O14828;P05062;Q9NVR5;O95999}

6172 Pathogen[ P14075] interacts with 3 human partners:{O95999;Q9NVR5;P62714}

6173 Pathogen[ P0C206] interacts with 5 human partners:{P05062;O14828;O95999;Q9NVR5;P62714}

6174 Pathogen[ P03363] interacts with 2 human partners:{Q9NVR5;P62714}

6175 [Cluster 562]GO:0016926+P biological\_process [name] protein desumoylation [def] "The process in which a SUMO protein (small ubiquitin-related modifier) is cleaved from its target protein." [GOC

6176 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9GZR1;Q9HC62}

6177 Pathogen[ P0C214] interacts with 2 human partners:{Q9GZR1;Q9HC62}

6178 Pathogen[ P03346] interacts with 2 human partners:{Q9GZR1;Q9HC62}

6179 Pathogen[ Q85601] interacts with 2 human partners:{Q9HC62;Q9GZR1}

6180 Pathogen[ P14079] interacts with 3 human partners:{Q9HC62;Q5W0Q7;Q9GZR1}

6181 Pathogen[ P03383] interacts with 2 human partners:{Q9HC62;Q9GZR1}

6182 Pathogen[ P03410] interacts with 2 human partners:{Q9GZR1;Q9HC62}

6183 Pathogen[ P14075] interacts with 2 human partners:{Q9HC62;Q9GZR1}

6184 Pathogen[ P0C206] interacts with 2 human partners:{Q9HC62;Q9GZR1}

6185 Pathogen[ P03363] interacts with 2 human partners:{Q9HC62;Q9GZR1}

6186 [Cluster 563]GO:0048239+P biological\_process [name] negative regulation of DNA recombination at telomere [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of genetic recombination within the telomere." [GOC

6187 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NYB0}

6188 Pathogen[ P0C214] interacts with 1 human partners:{Q9NYB0}

6189 Pathogen[ P03346] interacts with 1 human partners:{Q9NYB0}

6190 Pathogen[ Q85601] interacts with 1 human partners:{Q9NYB0}

6191 Pathogen[ P14079] interacts with 1 human partners:{Q9NYB0}

6192 Pathogen[ P03383] interacts with 1 human partners:{Q9NYB0}

6193 Pathogen[ P03410] interacts with 1 human partners:{Q9NYB0}

6194 Pathogen[ P14075] interacts with 1 human partners:{Q9NYB0}

6195 Pathogen[ P0C206] interacts with 1 human partners:{Q9NYB0}

6196 Pathogen[ P03363] interacts with 1 human partners:{Q9NYB0}

6197 [Cluster 564]GO:0045814+P biological\_process [name] negative regulation of gene expression, epigenetic [def] "Any epigenetic process that stops, prevents or reduces the rate of gene expression." [GOC

6198 Pathogen[ Q2Q067] interacts with 5 human partners:{P14373;Q9NS37;Q9UBC3;Q9H2F5;P17947}

6199 Pathogen[ P0C214] interacts with 4 human partners:{Q9NS37;P17947;Q9H2F5;P14373}

6200 Pathogen[ P03346] interacts with 5 human partners:{P14373;Q9UBC3;Q9H2F5;P17947;Q9NS37}

6201 Pathogen[ Q85601] interacts with 5 human partners:{Q9H2F5;P14373;P17947;Q9NS37;Q9UBC3}

6202 Pathogen[ P14079] interacts with 4 human partners:{P14373;Q9NS37;Q9UBC3;Q9H2F5}

6203 Pathogen[ P03383] interacts with 3 human partners:{Q9H2F5;Q9NS37;P17947}

6204 Pathogen[ P03410] interacts with 4 human partners:{Q9NS37;P17947;Q9H2F5;Q9UBC3}

6205 Pathogen[ P14075] interacts with 3 human partners:{Q9H2F5;P17947;Q9NS37}

6206 Pathogen[ P0C206] interacts with 5 human partners:{Q9H2F5;Q9NS37;P17947;Q9UBC3;P14373}

6207 Pathogen[ P03363] interacts with 5 human partners:{P14373;Q9NS37;P17947;Q9H2F5;Q9UBC3}

6208 [Cluster 565]GO:0022900+P biological\_process [name] electron transport chain [def] "A process in which a series of electron carriers operate together to transfer electrons

from donors to any of several different terminal electron acceptors to generate a transmembrane electrochemical gradient." [GOC

6209 Pathogen[ Q2Q067] interacts with 16 human partners: {P35754;O43920;P31040;P56181;P38117;O75489;O96000;O95178;O43678;O75251;O75306;P99999;P10599;Q9P0J0;P21912;E9PQ53}

6210 Pathogen[ P0C214] interacts with 31 human partners: {Q16795;P35754;O75306;O43678;P22695;Q99643;P56556;P28331;O43920;O95299;P17568;Q16718;O14561;O95298;Q16881;P99999;Q9P0J0;P38117;O96000;E9PQ53;O95182;O75489;O14521;P10599;O75251;Q9UI09;P21912;P56181;O95178;P13804;Q96NN9}

6211 Pathogen[ P03346] interacts with 18 human partners: {P31040;P56181;O75489;O43678;O95178;Q9NS18;O43396;P21912;P99999;O43920;P38117;E9PQ53;O75251;P35754;P10599;O96000;O75306;Q9P0J0}

6212 Pathogen[ Q85601] interacts with 12 human partners: {Q9P0J0;P99999;O75306;P21912;O43678;P56181;O96000;P10599;O43920;P31040;E9PQ53;P35754}

6213 Pathogen[ P14079] interacts with 55 human partners: {Q6P4F2;P56181;P22695;O43674;A6NC05;O43677;O43181;O95169;P56556;O95139;P10109;P13498;O96000;O95167;O75306;P00395;P00403;P17568;Q9UDW1;P14927;P13804;Q86Y39;O95182;P07919;Q6P2C0;O14949;P38117;P35754;P31040;O43676;O43678;P51970;O95178;O75251;O14561;Q9UI09;P00156;O95299;E9PQ53;Q9P0J0;O14569;O75489;P03923;P10599;Q16718;P03897;O14521;O43920;O15239;P99999;O00483;P03901;P03886;O95298;P21912}

6214 Pathogen[ P03383] interacts with 13 human partners: {O75251;P31040;O96000;O43678;O43920;O75489;P10599;O75306;O95178;P99999;E9PQ53;Q9P0J0;P56181}

6215 Pathogen[ P03410] interacts with 57 human partners: {O95168;O43674;O14569;P56556;P10599;P17568;P13804;P35754;O95178;O75380;O43678;O75251;O95299;P51970;Q6P2C0;O43920;Q9UI09;O96000;P07919;O95167;Q6P4F2;O15239;Q9Y6M9;P38117;P22695;P03886;O00483;O95298;O75438;Q9UDW1;E9PQ53;P56181;P00156;O14561;P14927;P31040;O75489;Q86Y39;P21912;P99999;Q99643;P03897;O43677;O95169;O43181;O14521;Q16718;O75306;P00403;P10109;O43676;O14949;A6NC05;P03901;Q9P0J0;P03923;O95182}

6216 Pathogen[ P14075] interacts with 20 human partners: {O43674;P56181;O96000;O95182;O43677;P31040;O43920;O75306;O14561;O95298;O43678;P99999;O75251;E9PQ53;P38117;O75489;O95178;Q9P0J0;O43676;P10599}

6217 Pathogen[ P0C206] interacts with 29 human partners: {Q6P2C0;P99999;P56181;Q9NS18;O75251;Q9UDW1;O43920;O14521;O75306;O95182;P38117;P35754;Q9UI09;O95298;P22695;O14561;O00483;P17568;O95178;P31040;Q9P0J0;O43678;O75489;E9PQ53;P10599;P21912;O96000;O43674;P56556}

6218 Pathogen[ P03363] interacts with 7 human partners: {P31040;P99999;P35754;Q9P0J0;O43396;O96000;P56181}

6219 [Cluster 566]GO:0032446+P biological\_process [name] protein modification by small protein conjugation [def] "A protein modification process in which one or more groups of a small protein, such as ubiquitin or a ubiquitin-like protein, are covalently attached to a target protein." [GOC

6220 Pathogen[ Q2Q067] interacts with 1 human partners: {O15205}

6221 Pathogen[ P0C214] interacts with 1 human partners: {O15205}

6222 Pathogen[ P03346] interacts with 1 human partners: {O15205}

6223 Pathogen[ Q85601] interacts with 1 human partners: {O15205}

6224 Pathogen[ P14079] interacts with 2 human partners: {Q9H0Y0;O15205}

6225 Pathogen[ P03383] interacts with 1 human partners: {O15205}

6226 Pathogen[ P03410] interacts with 2 human partners: {Q9H0Y0;O15205}

6227 Pathogen[ P14075] interacts with 1 human partners: {O15205}

6228 Pathogen[ P0C206] interacts with 1 human partners: {O15205}

6229 Pathogen[ P03363] interacts with 1 human partners: {O15205}

6230 [Cluster 567]GO:0034111+P biological\_process [name] negative regulation of homotypic cell-cell adhesion [def] "Any process that stops, prevents, or reduces the frequency, rate, or extent of homotypic cell-cell adhesion." [GOC

6231 Pathogen[ Q2Q067] interacts with 1 human partners: {Q9H7S9}

6232 Pathogen[ P0C214] interacts with 1 human partners: {Q9H7S9}

6233 Pathogen[ P03346] interacts with 1 human partners: {Q9H7S9}

6234 Pathogen[ Q85601] interacts with 1 human partners: {Q9H7S9}

6235 Pathogen[ P14079] interacts with 1 human partners: {Q9H7S9}

6236 Pathogen[ P03383] interacts with 1 human partners: {Q9H7S9}

6237 Pathogen[ P03410] interacts with 1 human partners: {Q9H7S9}

6238 Pathogen[ P14075] interacts with 1 human partners: {Q9H7S9}

6239 Pathogen[ P0C206] interacts with 1 human partners: {Q9H7S9}

6240 Pathogen[ P03363] interacts with 1 human partners: {Q9H7S9}

6241 [Cluster 568]GO:0045078+P biological\_process [name] positive regulation of interferon-gamma biosynthetic process [def] "Any process that activates or increases the frequency, rate or extent of the chemical reactions and pathways resulting in the formation of interferon-gamma." [GOC

6242 Pathogen[ Q2Q067] interacts with 2 human partners: {Q8IX07;P53567}

6243 Pathogen[ P0C214] interacts with 2 human partners: {P53567;Q8IX07}

6244 Pathogen[ P03346] interacts with 2 human partners: {Q8IX07;P53567}

6245 Pathogen[ Q85601] interacts with 2 human partners: {P53567;Q8IX07}

6246 Pathogen[ P14079] interacts with 3 human partners: {P53567;Q8NEV9;Q8IX07}

6247 Pathogen[ P03383] interacts with 1 human partners: {P53567}

6248 Pathogen[ P03410] interacts with 3 human partners:{P53567;Q8IX07;Q8NEV9}

6249 Pathogen[ P14075] interacts with 1 human partners:{P53567}

6250 Pathogen[ P0C206] interacts with 2 human partners:{P53567;Q8IX07}

6251 Pathogen[ P03363] interacts with 1 human partners:{P53567}

6252 [Cluster 569]GO:0090201+P biological\_process [name] negative regulation of release of cytochrome c from mitochondria [def] "Any process that decreases the rate, frequency or extent of release of cytochrome c from mitochondria, the process in which cytochrome c is enabled to move from the mitochondrial intermembrane space into the cytosol, which is an early step in apoptosis and leads to caspase activation." [GOC

6253 Pathogen[ Q2Q067] interacts with 3 human partners:{O75832;P31749;O60260}

6254 Pathogen[ P0C214] interacts with 3 human partners:{O75832;O60260;P31749}

6255 Pathogen[ P03346] interacts with 3 human partners:{O75832;P31749;O60260}

6256 Pathogen[ Q85601] interacts with 3 human partners:{P31749;O75832;O60260}

6257 Pathogen[ P14079] interacts with 3 human partners:{O60260;O75832;Q9H300}

6258 Pathogen[ P03383] interacts with 3 human partners:{P31749;O75832;O60260}

6259 Pathogen[ P03410] interacts with 3 human partners:{P31749;O60260;O75832}

6260 Pathogen[ P14075] interacts with 3 human partners:{O75832;P31749;O60260}

6261 Pathogen[ P0C206] interacts with 3 human partners:{O75832;P31749;O60260}

6262 Pathogen[ P03363] interacts with 1 human partners:{P31749}

6263 [Cluster 570]GO:0034983+P biological\_process [name] peptidyl-lysine deacetylation [def] "The removal of an acetyl group from an acetylated lysine residue in a peptide or protein." [GOC

6264 Pathogen[ Q2Q067] interacts with 3 human partners:{P56524;Q9UKV0;Q9NTG7}

6265 Pathogen[ P0C214] interacts with 3 human partners:{P56524;Q9NTG7;Q9UKV0}

6266 Pathogen[ P03346] interacts with 3 human partners:{P56524;Q9UKV0;Q9NTG7}

6267 Pathogen[ Q85601] interacts with 3 human partners:{Q9UKV0;P56524;Q9NTG7}

6268 Pathogen[ P14079] interacts with 3 human partners:{Q9UKV0;P56524;Q9NTG7}

6269 Pathogen[ P03383] interacts with 3 human partners:{Q9NTG7;Q9UKV0;P56524}

6270 Pathogen[ P03410] interacts with 3 human partners:{Q9UKV0;Q9NTG7;P56524}

6271 Pathogen[ P14075] interacts with 3 human partners:{P56524;Q9UKV0;Q9NTG7}

6272 Pathogen[ P0C206] interacts with 3 human partners:{Q9UKV0;P56524;Q9NTG7}

6273 Pathogen[ P03363] interacts with 2 human partners:{Q9UKV0;Q9NTG7}

6274 [Cluster 571]GO:0061157+P biological\_process [name] mRNA destabilization [def] "Any process that decreases the stability of an mRNA molecule, making it more vulnerable to degradative processes. Messenger RNA is the intermediate molecule between DNA and protein. It includes UTR and coding sequences. It does not contain introns." [GOC

6275 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96LI5}

6276 Pathogen[ P0C214] interacts with 1 human partners:{Q96LI5}

6277 Pathogen[ P03346] interacts with 2 human partners:{Q96LI5;Q86XN8}

6278 Pathogen[ Q85601] interacts with 1 human partners:{Q96LI5}

6279 Pathogen[ P14079] interacts with 1 human partners:{Q96LI5}

6280 Pathogen[ P03383] interacts with 1 human partners:{Q96LI5}

6281 Pathogen[ P03410] interacts with 1 human partners:{Q96LI5}

6282 Pathogen[ P14075] interacts with 1 human partners:{Q96LI5}

6283 Pathogen[ P0C206] interacts with 2 human partners:{Q96LI5;Q86XN8}

6284 Pathogen[ P03363] interacts with 1 human partners:{Q96LI5}

6285 [Cluster 572]GO:0006694+P biological\_process [name] steroid biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of steroids, compounds with a 1,2,cyclopentanoperhydrophenanthrene nucleus\_ includes de novo formation and steroid interconversion by modification." [GOC

6286 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9NZI6;P14324;P40424}

6287 Pathogen[ P0C214] interacts with 5 human partners:{P40424;Q13907;Q9BXS1;P14324;Q9NZI6}

6288 Pathogen[ P03346] interacts with 4 human partners:{Q9NZI6;P51843;P14324;P40424}

6289 Pathogen[ Q85601] interacts with 4 human partners:{P40424;P14324;Q9NZI6;Q13907}

6290 Pathogen[ P14079] interacts with 6 human partners:{Q9BXS1;Q13907;P14324;Q9NZI6;Q9UKR5;P53602}

6291 Pathogen[ P03383] interacts with 3 human partners:{P40424;P14324;Q9NZI6}

6292 Pathogen[ P03410] interacts with 6 human partners:{P53602;Q9NZI6;Q13907;P40424;P14324;Q9BXS1}

6293 Pathogen[ P14075] interacts with 3 human partners:{P40424;P14324;Q9NZI6}

6294 Pathogen[ P0C206] interacts with 5 human partners:{P40424;P14324;Q13907;Q9BXS1;Q9NZI6}

6295 Pathogen[ P03363] interacts with 2 human partners:{Q9NZI6;P40424}

6296 [Cluster 573]GO:0050881+P biological\_process [name] musculoskeletal movement [def] "The movement of an organism or part of an organism using mechanoreceptors, the nervous system, striated muscle and/or the skeletal system." [GOC

6297 Pathogen[ Q2Q067] interacts with 2 human partners:{Q63HK5;Q9P1Q0}

6298 Pathogen[ P0C214] interacts with 3 human partners:{Q63HK5;Q9P1Q0;Q6Y7W6}

6299 Pathogen[ P03346] interacts with 2 human partners:{Q63HK5;Q9P1Q0}

6300 Pathogen[ Q85601] interacts with 3 human partners:{Q6Y7W6;Q9P1Q0;Q63HK5}

6301 Pathogen[ P14079] interacts with 3 human partners:{Q6Y7W6;Q9P1Q0;Q63HK5}

6302 Pathogen[ P03383] interacts with 1 human partners:{Q9P1Q0}

6303 Pathogen[ P03410] interacts with 4 human partners:{Q9P1Q0;Q6Y7W6;Q9UBY8;Q63HK5}

6304 Pathogen[ P14075] interacts with 1 human partners:{Q9P1Q0}

6305 Pathogen[ P0C206] interacts with 3 human partners:{Q9P1Q0;Q63HK5;Q6Y7W6}



6306 Pathogen[ P03363] interacts with 2 human partners:{Q9P1Q0;Q63HK5}  
6307 [Cluster 574]GO:0006222+P biological\_process [name] UMP biosynthetic process [def]  
"The chemical reactions and pathways resulting in the formation of UMP, uridine  
monophosphate." [ISBN  
6308 Pathogen[ Q2Q067] interacts with 1 human partners:{P11172}  
6309 Pathogen[ P0C214] interacts with 1 human partners:{P11172}  
6310 Pathogen[ P03346] interacts with 1 human partners:{P11172}  
6311 Pathogen[ Q85601] interacts with 1 human partners:{P11172}  
6312 Pathogen[ P14079] interacts with 1 human partners:{P11172}  
6313 Pathogen[ P03383] interacts with 1 human partners:{P11172}  
6314 Pathogen[ P03410] interacts with 1 human partners:{P11172}  
6315 Pathogen[ P14075] interacts with 1 human partners:{P11172}  
6316 Pathogen[ P0C206] interacts with 1 human partners:{P11172}  
6317 Pathogen[ P03363] interacts with 1 human partners:{P11172}  
6318 [Cluster 575]GO:0019674+P biological\_process [name] NAD metabolic process [def]  
"The chemical reactions and pathways involving nicotinamide adenine dinucleotide (NAD),  
a coenzyme present in most living cells and derived from the B vitamin nicotinic acid."  
[GOC  
6319 Pathogen[ Q2Q067] interacts with 3 human partners:{P07195;Q6XQN6;Q9HAN9}  
6320 Pathogen[ P0C214] interacts with 7 human  
partners:{Q96T66;Q9HAN9;Q6XQN6;Q9BZQ4;Q15274;P43490;P07195}  
6321 Pathogen[ P03346] interacts with 3 human partners:{Q9HAN9;Q6XQN6;P07195}  
6322 Pathogen[ Q85601] interacts with 3 human partners:{Q9HAN9;Q6XQN6;P07195}  
6323 Pathogen[ P14079] interacts with 9 human  
partners:{O95544;Q4G0N4;P43490;P07195;Q9BZQ4;Q6XQN6;Q9HAN9;Q6IA69;Q15274}  
6324 Pathogen[ P03383] interacts with 2 human partners:{Q9HAN9;P07195}  
6325 Pathogen[ P03410] interacts with 8 human  
partners:{Q15274;Q4G0N4;Q6XQN6;P07195;P43490;Q9HAN9;Q6IA69;Q9BZQ4}  
6326 Pathogen[ P14075] interacts with 3 human partners:{P07195;Q9HAN9;Q6XQN6}  
6327 Pathogen[ P0C206] interacts with 6 human  
partners:{P07195;Q6XQN6;P43490;Q9BZQ4;Q9HAN9;Q15274}  
6328 Pathogen[ P03363] interacts with 2 human partners:{Q6XQN6;Q9HAN9}  
6329 [Cluster 576]GO:0051972+P biological\_process [name] regulation of telomerase activity  
[def] "Any process that modulates the frequency, rate or extent of telomerase activity,  
the catalysis of the reaction  
6330 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96BK5}  
6331 Pathogen[ P0C214] interacts with 1 human partners:{Q96BK5}  
6332 Pathogen[ P03346] interacts with 1 human partners:{Q96BK5}  
6333 Pathogen[ Q85601] interacts with 1 human partners:{Q96BK5}  
6334 Pathogen[ P14079] interacts with 1 human partners:{Q96BK5}  
6335 Pathogen[ P03383] interacts with 1 human partners:{Q96BK5}  
6336 Pathogen[ P03410] interacts with 1 human partners:{Q96BK5}  
6337 Pathogen[ P14075] interacts with 1 human partners:{Q96BK5}  
6338 Pathogen[ P0C206] interacts with 1 human partners:{Q96BK5}  
6339 Pathogen[ P03363] interacts with 1 human partners:{Q96BK5}  
6340 [Cluster 577]GO:0001937+P biological\_process [name] negative regulation of  
endothelial cell proliferation [def] "Any process that stops, prevents, or reduces the  
rate or extent of endothelial cell proliferation." [GOC  
6341 Pathogen[ Q2Q067] interacts with 4 human partners:{Q9H4X1;Q9UII2;Q12904;P42224}  
6342 Pathogen[ P0C214] interacts with 4 human partners:{Q9H4X1;Q12904;P42224;Q9UII2}  
6343 Pathogen[ P03346] interacts with 5 human  
partners:{Q9H4X1;Q9UII2;Q12904;P42224;O00522}  
6344 Pathogen[ Q85601] interacts with 3 human partners:{Q9H4X1;Q9UII2;P42224}  
6345 Pathogen[ P14079] interacts with 5 human  
partners:{P25705;Q9UII2;P42224;Q12904;O00522}  
6346 Pathogen[ P03383] interacts with 3 human partners:{Q9H4X1;Q12904;Q9UII2}  
6347 Pathogen[ P03410] interacts with 5 human  
partners:{Q9H4X1;P25705;Q12904;Q9UII2;O00522}  
6348 Pathogen[ P14075] interacts with 3 human partners:{Q9H4X1;Q9UII2;Q12904}  
6349 Pathogen[ P0C206] interacts with 5 human  
partners:{Q9H4X1;P42224;Q9UII2;O00522;Q12904}  
6350 Pathogen[ P03363] interacts with 2 human partners:{Q9H4X1;O00522}  
6351 [Cluster 578]GO:0071277+P biological\_process [name] cellular response to calcium ion  
[def] "Any process that results in a change in state or activity of a cell (in terms of  
movement, secretion, enzyme production, gene expression, etc.) as a result of a calcium  
ion stimulus." [GOC  
6352 Pathogen[ Q2Q067] interacts with 6 human  
partners:{P01100;Q5T752;O43745;Q9HB71;P13645;Q02078}  
6353 Pathogen[ P0C214] interacts with 9 human  
partners:{Q5T752;P01100;P17275;O43745;Q02078;P17535;P05412;Q9HB71;P13645}  
6354 Pathogen[ P03346] interacts with 11 human  
partners:{P05412;Q02078;P17275;P17535;Q9HB71;Q5T752;P13645;Q9H8V3;P01100;P53539;O437  
45}  
6355 Pathogen[ Q85601] interacts with 9 human  
partners:{Q02078;O43745;P01100;P17535;P13645;P05412;P17275;Q9HB71;P53539}  
6356 Pathogen[ P14079] interacts with 12 human

partners:{Q02078;Q06413;O43745;P20292;Q9HB71;Q5T752;P13645;P17275;Q9H8V3;P05412;P01100;P17535}

6357 Pathogen[ P03383] interacts with 9 human  
partners:{Q5T752;P13645;Q9HB71;O43745;P01100;P17535;P17275;Q02078;P05412}

6358 Pathogen[ P03410] interacts with 11 human  
partners:{P13645;Q9HB71;P01100;P17535;P17275;P05412;Q02078;O43745;Q9H8V3;P20292;Q5T752}

6359 Pathogen[ P14075] interacts with 9 human  
partners:{P05412;P17275;P13645;Q5T752;O43745;Q02078;P01100;P17535;Q9HB71}

6360 Pathogen[ P0C206] interacts with 12 human  
partners:{Q9HB71;Q02078;P17275;P05412;P13645;P17535;Q5T752;P01100;P53539;Q9H8V3;P20292;O43745}

6361 Pathogen[ P03363] interacts with 10 human  
partners:{P17535;P13645;Q9HB71;P53539;P17275;Q5T752;P05412;O43745;P01100;Q02078}

6362 [Cluster 579]GO:0018101+P biological\_process [name] peptidyl-citrulline biosynthetic process from peptidyl-arginine [def] "The hydrolysis of peptidyl-arginine to form peptidyl-citrulline." [RESID

6363 Pathogen[ Q2Q067] interacts with 5 human  
partners:{Q9ULC6;Q9Y2J8;Q9ULW8;Q9UM07;Q6TGC4}

6364 Pathogen[ P0C214] interacts with 5 human  
partners:{Q9UM07;Q9ULC6;Q6TGC4;Q9ULW8;Q9Y2J8}

6365 Pathogen[ P03346] interacts with 5 human  
partners:{Q9ULC6;Q6TGC4;Q9Y2J8;Q9ULW8;Q9UM07}

6366 Pathogen[ Q85601] interacts with 5 human  
partners:{Q9ULW8;Q9UM07;Q6TGC4;Q9Y2J8;Q9ULC6}

6367 Pathogen[ P14079] interacts with 5 human  
partners:{Q9ULC6;Q9ULW8;Q9Y2J8;Q6TGC4;Q9UM07}

6368 Pathogen[ P03383] interacts with 5 human  
partners:{Q9ULW8;Q6TGC4;Q9UM07;Q9Y2J8;Q9ULC6}

6369 Pathogen[ P03410] interacts with 5 human  
partners:{Q9UM07;Q9ULC6;Q6TGC4;Q9Y2J8;Q9ULW8}

6370 Pathogen[ P14075] interacts with 5 human  
partners:{Q9ULC6;Q9UM07;Q9Y2J8;Q9ULW8;Q6TGC4}

6371 Pathogen[ P0C206] interacts with 5 human  
partners:{Q9Y2J8;Q9UM07;Q6TGC4;Q9ULC6;Q9ULW8}

6372 Pathogen[ P03363] interacts with 5 human  
partners:{Q9Y2J8;Q9ULW8;Q9UM07;Q6TGC4;Q9ULC6}

6373 [Cluster 580]GO:0006413+P biological\_process [name] translational initiation [def] "The process preceding formation of the peptide bond between the first two amino acids of a protein. This includes the formation of a complex of the ribosome, mRNA, and an initiation complex that contains the first aminoacyl-tRNA." [ISBN

6374 Pathogen[ Q2Q067] interacts with 125 human  
partners:{P23588;P05198;Q7L2H7;P61313;Q99613;P62701;P47914;P46779;O00303;O60841;Q9BY44;Q02543;P26373;Q9UBQ5;P62750;P47813;P62273;P15880;P40429;Q9H074;P46782;P35268;P22090;P49770;P62778;P62888;P32969;P62277;P56537;P62241;P62244;P05387;Q14152;P62861;P42766;P05386;Q96DP5;Q92905;Q9Y262;Q14240;Q9UNX3;P30050;O43583;P18077;P62891;Q13541;P61927;P39023;P62081;P61247;P61254;Q9UI10;P62249;P62280;P83731;P62263;P60866;P62906;Q14232;Q02878;P46777;P62899;P78344;Q9NR50;P08708;P41567;P08865;Q07020;P62913;O14602;P62269;P60228;P62424;P62917;P62829;P46783;P36578;Q9UKV8;P62857;P62847;O75822;P49207;Q13144;P23396;Q9H2K0;P20042;O60573;P63173;P18621;P9UJA5;P39019;P61353;O15371;Q04637;P62266;P42677;Q9Y3U8;P63220;P62841;Q8NE71;P83881;P62987;P06730;P50914;P46776;P11940;P62854;P62753;P05388;P60842;P18124;P62851;P25398;Q15056;P62910;Q92901;P46781;P27635;O75821;O15372;Q13347;P61513;P41214;P62945;P62979}

6375 Pathogen[ P0C214] interacts with 130 human  
partners:{P62861;P84098;P61247;P60228;P15880;P62081;P42766;Q9UI10;P62913;P22090;O60841;Q92901;P62249;P62899;P62854;P39019;P62263;P60842;P49770;Q9Y262;Q9BY44;P62273;O60739;P23396;P18077;P05388;O15372;P62847;P23588;P62829;P26373;Q14152;P27635;P47813;P46778;Q8N5X7;A6NMX2;Q99613;O14602;Q96DP5;O75821;P61513;P78344;P83881;Q15056;P62701;P49207;P11940;Q14232;P63220;P08865;P32969;Q02543;P62266;P62277;Q8N9N8;P50914;P46779;O00303;P40429;P41091;P47914;Q8NE71;P63173;P46783;Q92905;Q9NR50;P62280;Q9UNX3;Q9Y3U8;Q9H074;P30050;P62753;P62910;Q13144;P62891;Q14240;Q7L2H7;P62269;P41567;P46781;P61254;Q9UKV8;P62841;P62244;P62987;Q04637;Q07020;P42677;P62945;O75822;P46776;P05198;P62241;P46777;P55884;P83731;P35268;P62424;P60866;P62857;Q9UJA5;Q9H2K0;P61313;P08708;B5ME19;P20042;P05387;P25398;Q9UBQ5;P61927;P62750;P62979;P05386;P62851;P06730;P46782;P56537;P18124;O43583;P61353;P36578;O15371;P18621;Q13541;Q13347;P62906;O60573;Q02878;P41214}

6376 Pathogen[ P03346] interacts with 133 human  
partners:{P41567;O60739;P05387;P46779;B5ME19;P63173;P06730;P62917;P62249;P62913;P62861;P62277;Q02878;P41091;P47813;Q9UBQ5;P62280;P39023;P62987;P61927;Q9UNX3;P62857;Q13541;Q13347;O60841;P46778;P49207;Q8N5X7;P62266;P78344;P61254;P56537;O60573;Q15056;P11940;P62424;P62273;P55884;P83731;P60866;P62899;Q14152;O75821;P60842;P35268;O14602;P62891;P08708;O00303;P46782;P61353;O43583;P62854;Q9Y3U8;P47914;Q14232;P08865;Q96DP5;P60228;P61313;Q9H074;P25398;P61513;P05388;P62269;Q02543;P42766;P62081;Q7L2H7;P61247;Q14240;P49770;P18621;P46781;P84098;P15880;Q9UKV8;P50914;P62829;P62979;Q8N9N8;Q99613;Q92905;O75822;P39019;P23588;P23396;Q9BY44;P42677;P62750;P62701;P30050;P62701;P36578;Q8NE71;P62847;P62851;Q9UJA5;P22090;Q9H2K0;Q04637;A6NMX2;P46777;O15371;Q07020;P62263;P62841;P83881;P41214;P05386;P18077;Q13144;P20042;P46776;P62241;Q9NR50;P62753;O15372;P629

- 45;Q92901;P32969;P26373;Q9UI10;P18124;P40429;P27635;P46783;Q9Y262;P62906;P62244;P62888;P63220;P05198}
- 6377 Pathogen[ Q85601] interacts with 125 human  
partners: {P46783;P32969;P61513;P26373;P62857;P62244;P62913;P62854;P62081;P61353;P62891;P46776;P47813;P18077;P61313;P41091;Q99613;P05388;Q9UBQ5;P06730;Q14240;P63173;P23588;P23396;P62273;P46778;P62829;Q8N5X7;P30050;P62753;P27635;Q04637;P15880;P65637;P83881;Q07020;Q9Y3U8;P39019;Q9Y3U8;Q9NR50;P62701;P62241;P62424;O00303;P83731;P62899;P20042;Q13144;P62945;P49770;P62263;Q13541;P62861;Q02878;P39023;P61254;O15371;B5ME19;P49207;P60228;P11940;P62910;P62249;P62280;P47914;P84098;P08708;P42766;O60573;P62269;Q92905;Q9Y262;P18621;P05387;P78344;Q9UNX3;P60842;Q9UKV8;P62277;Q9H074;P35268;P62979;Q7L2H7;Q13347;P62847;O75822;Q8NE71;P41567;Q14152;P05198;P42677;P63220;P46782;P46779;Q9UJA5;P62750;P62851;P62841;O15372;P62987;P22090;P61927;P36578;P41214;P05386;O43583;P08865;P61247;Q14232;O75821;P46777;P62917;Q92901;Q9UI10;P18124;P46781;P25398;P60866;Q02543;P62906;P50914;P62266;P40429;P62888}
- 6378 Pathogen[ P14079] interacts with 132 human  
partners: {Q9Y3U8;P27635;Q8N9N8;P84098;P46779;Q7L2H7;A6NMX2;P20042;Q9UKV8;P26373;P60842;O14602;P23396;Q15056;P40429;O00303;O75821;P06730;O60739;Q9UI10;Q9H2K0;P18621;P47813;P83881;P41567;Q9BY44;Q9UNX3;P46781;P83731;P61513;P62847;P41091;P62753;P65637;P39023;P62273;O43432;P25398;P18077;P46783;P05198;P61254;P50914;P46199;Q9H074;P62979;P62841;P18124;Q14240;P42766;P62266;O15371;P46782;P62987;Q13144;P62241;Q13541;P78344;P23588;P32969;P22090;P62829;O60573;B5ME19;P60866;P62854;Q9NR50;Q07020;P39019;P63220;P49207;P62244;P62263;Q02543;P62424;Q92901;P62277;O75822;P11940;P62750;P62910;P63173;P46776;Q8NE71;P08708;Q99613;Q8N5X7;P36578;O43583;Q9UJA5;Q92905;P62906;P47914;P62280;Q9Y262;P62899;P61353;P62081;P62945;P46777;P42677;P30050;O60841;P15880;P62891;P62888;P08865;P61927;P62917;P46778;P62249;Q13347;P05386;P35268;Q14232;P62913;P41214;P05387;Q9UBQ5;P61247;P62269;P62701;P61313;Q14152;Q96DP5;P62851;P05388;Q04637;O15372;P62857;P55884;P62861}
- 6379 Pathogen[ P03383] interacts with 122 human  
partners: {P42766;P36578;P05388;P62266;P39019;P26373;P62913;P62945;P62854;P40429;P62987;P62891;P25398;P62280;Q07020;P62750;O15371;P05387;P62249;P62888;P62899;Q9UBQ5;P60228;P61927;Q8NE71;P46777;P46779;P41567;P49207;P65637;P83731;P62424;Q92905;Q9UI10;P18124;P46778;Q92901;P62753;Q9Y262;P42677;P61247;P83881;P47914;O60841;P11940;Q14152;P62917;P62273;O60573;Q9UNX3;P30050;P84098;Q9BY44;O14602;P32969;P20042;P62277;Q13144;P18077;P23588;P06730;P63173;Q9NR50;P62081;Q13541;P61313;P08865;P62851;P47813;P46782;P41214;Q9H2K0;P62269;P63220;P05198;Q02543;P62244;Q02878;Q7L2H7;P49770;P78344;P62910;P27635;Q9UKV8;Q9H074;P62857;Q99613;O75822;P62906;P46783;Q9Y3U8;P60866;Q04637;P61254;P62979;Q96DP5;P62241;P46781;Q14232;Q13347;P39023;O43583;Q9UJA5;P62841;P22090;P62701;P62829;P62263;P62847;P35268;P05386;P50914;P62861;P18621;O15372;P46776;O75821;P15880;P23396;P61513;P08708;P61353}
- 6380 Pathogen[ P03410] interacts with 135 human  
partners: {P62861;Q96DP5;P05386;Q02543;P61247;P62241;P62829;P49207;P26373;P61513;Q9NR50;P62899;Q8NE71;Q9UKV8;P62244;O60841;P62913;O75822;Q02878;Q92901;P11940;B5ME19;O15372;P15880;P46777;P46776;P62841;P30050;P05388;P06730;P46781;P18124;Q9H2K0;P20042;P46199;Q92905;P62269;Q07020;P63220;P62910;P62847;P62906;Q7L2H7;P23396;Q14232;P18621;P62266;O43583;P62249;P63173;P50914;P62280;O43432;P22090;P61313;P62979;Q99613;P47813;Q13541;Q14152;P41214;P62701;P49770;P62750;Q9H074;P41567;P55884;P08865;Q9UNX3;P62277;O15371;P36578;P18077;Q9UJA5;P25398;P61927;P84098;P62854;P62273;O60739;P62081;P46783;Q15056;Q9Y3U8;P08708;P46782;P32969;O14602;P60842;O00303;P46779;P27635;O60573;O75821;P62987;Q9BY44;P62857;Q8N5X7;Q8N9N8;Q13347;P62263;P41091;P62424;P62888;P61254;P46778;P62945;P05387;P42766;P39019;P47914;P40429;Q04637;P39023;Q9Y262;A6NMX2;P62917;P62851;P83731;P65637;P60228;P35268;P61353;P62891;P62753;P78344;Q9UBQ5;P23588;Q9UI10;Q14240;P83881;P60866;Q13144;P42677;P05198}
- 6381 Pathogen[ P14075] interacts with 123 human  
partners: {P42766;P49207;P62857;P46781;P63220;P32969;P42677;P62913;P22090;O60841;P56537;P20042;Q02878;P62277;O15372;Q7L2H7;P62851;P23588;P08865;P62244;P08708;P61254;P46778;P05388;P78344;P83881;Q99613;O75821;P46777;Q9Y3U8;P62249;Q9H074;P06730;P62081;P62750;P18621;Q02543;Q9UI10;P18124;Q9UNX3;P25398;P47813;P05198;O15371;O43583;P11940;P60228;P63173;P30050;Q9H2K0;P62979;O60573;P83731;P84098;O60739;Q14232;P61247;P62753;P46782;P62891;P62861;P18077;P46779;P62917;P39023;P41214;Q04637;P50914;P62269;P62847;P62910;P62273;P40429;P23396;P62241;P15880;Q8NE71;P49770;P62987;O14602;Q9UKV8;P62841;P36578;P62266;Q9Y262;Q13347;P61513;O75822;P61313;P27635;P62888;Q92901;P35268;Q9NR50;P62945;P46776;Q9UJA5;P46783;P62701;Q13144;P62899;P47914;P62906;P41567;Q9UBQ5;P05386;Q92905;P61353;P39019;P62424;Q9BY44;P62829;P62280;Q13541;Q07020;P62263;Q96DP5;P62854;P60866;P26373;P05387;Q14152;P61927}
- 6382 Pathogen[ P0C206] interacts with 131 human  
partners: {P41091;Q7L2H7;P40429;P61313;Q13541;Q9H074;Q99613;P27635;P20042;P18124;P62854;P49207;P62081;P30050;O14602;P62241;P62244;P50914;P08865;P62750;P18621;P46781;P62266;Q02543;Q14232;P41567;Q07020;P83881;P46778;P62263;P62273;Q02878;Q9UKV8;P62280;Q8N9N8;P62857;P62910;P62910;Q9NR50;P46782;P06730;P61247;Q13144;P18077;P62913;P61927;P61353;P62888;P36578;P60228;P49770;P62861;P05198;O60841;Q8N5X7;P35268;P23396;P39023;P32969;P62701;P05386;P22090;O60739;Q9H2K0;B5ME19;P84098;P62945;P26373;Q14152;P46777;P05388;Q9UI10;P62979;A6NMX2;O15371;P62899;P47813;P65637;P83731;P39019;Q92901;P05387;P46783;P42766;P60866;Q14240;P62841;Q8NE71;Q9UNX3;Q9UJA5;P23588;P61513;P78344;Q9BY44;P62277;O60573;P46776;P62906;P41214;Q04637;P63173;O43583;P62987;O75821;P62987;P62857;P62753;Q13347;P46779;P63220;P60842;P15880;P25398;O00303;P08708;P11940;Q96DP5;P47914;P62847;Q9Y262;P61254;O15372;O75822;P42677;P62829;P62249;P62424;Q92905;Q9Y3U8;Q9UBQ5;P629

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6383 Pathogen[ P03363] interacts with 129 human partners: {P62913;O60739;P18621;P05386;O15371;P62750;P23396;P42677;P63173;P08865;P62847;P18077;P05387;Q9BY44;P84098;P42766;P62249;P05388;O60841;P36578;Q13347;P62753;P62081;P62910;P61513;P46776;Q9UI10;P61254;P62273;P32969;Q92901;P46778;Q15056;P61927;O14602;Q9UBQ5;P62891;Q14152;Q9UKV8;P61353;P08708;P11940;O15372;P41091;P41567;P23588;P05198;P626373;P83881;P22090;P62861;P62841;Q9UNX3;Q9NR50;P30050;Q8N5X7;P62829;Q14240;P46782;P35268;P20042;P46781;P47813;P50914;A6NMX2;P56537;P63220;Q7L2H7;P61313;P39019;P46779;Q02543;P46777;P62987;P25398;B5ME19;Q9UJA5;P49770;P60228;P83731;P62851;P62280;Q9Y3U8;P62888;P41214;P60842;P62244;P62277;O43583;P62906;Q8NE71;P62266;P62945;P49207;P62241;P62424;P60866;Q9Y262;P61247;O60573;Q13144;P62899;P62857;Q02878;Q13541;O75821;P78344;Q07020;P39023;P62854;P62917;P55884;P18124;P40429;P27635;P06730;P62263;P47914;P62701;Q9H074;Q92905;O75822;P62269;P46783;Q8N9N8;Q99613;Q04637;O00303}

6384 [Cluster 581]GO:0090267+P biological\_process [name] positive regulation of mitotic cell cycle spindle assembly checkpoint [def] "Any process that increases the rate, frequency, or extent of the mitotic cell cycle spindle assembly checkpoint, a cell cycle checkpoint that delays the metaphase/anaphase transition of a mitotic nuclear division until the spindle is correctly assembled and chromosomes are attached to the spindle." [GOC

6385 Pathogen[ Q2Q067] interacts with 1 human partners: {Q13257}

6386 Pathogen[ P0C214] interacts with 2 human partners: {Q13257;Q5JVF3}

6387 Pathogen[ P03346] interacts with 1 human partners: {Q13257}

6388 Pathogen[ Q85601] interacts with 1 human partners: {Q13257}

6389 Pathogen[ P14079] interacts with 2 human partners: {Q13257;Q5JVF3}

6390 Pathogen[ P03383] interacts with 1 human partners: {Q13257}

6391 Pathogen[ P03410] interacts with 3 human partners: {Q9Y6G9;Q5JVF3;Q13257}

6392 Pathogen[ P14075] interacts with 1 human partners: {Q13257}

6393 Pathogen[ P0C206] interacts with 3 human partners: {Q5JVF3;Q13257;Q9Y6G9}

6394 Pathogen[ P03363] interacts with 1 human partners: {Q13257}

6395 [Cluster 582]GO:0007435+P biological\_process [name] salivary gland morphogenesis [def] "The process in which the anatomical structures of the salivary gland are generated and organized." [GOC

6396 Pathogen[ Q2Q067] interacts with 1 human partners: {O60716}

6397 Pathogen[ P0C214] interacts with 1 human partners: {O60716}

6398 Pathogen[ P03346] interacts with 1 human partners: {O60716}

6399 Pathogen[ Q85601] interacts with 1 human partners: {O60716}

6400 Pathogen[ P14079] interacts with 1 human partners: {O60716}

6401 Pathogen[ P03383] interacts with 1 human partners: {O60716}

6402 Pathogen[ P03410] interacts with 1 human partners: {O60716}

6403 Pathogen[ P14075] interacts with 1 human partners: {O60716}

6404 Pathogen[ P0C206] interacts with 1 human partners: {O60716}

6405 Pathogen[ P03363] interacts with 1 human partners: {O60716}

6406 [Cluster 583]GO:0002026+P biological\_process [name] regulation of the force of heart contraction [def] "Any process that modulates the extent of heart contraction, changing the force with which blood is propelled." [GOC

6407 Pathogen[ Q2Q067] interacts with 1 human partners: {P26678}

6408 Pathogen[ P0C214] interacts with 2 human partners: {P13533;P26678}

6409 Pathogen[ P03346] interacts with 2 human partners: {P26678;O76003}

6410 Pathogen[ Q85601] interacts with 2 human partners: {P13533;O76003}

6411 Pathogen[ P14079] interacts with 2 human partners: {O76003;P26678}

6412 Pathogen[ P03383] interacts with 1 human partners: {P26678}

6413 Pathogen[ P03410] interacts with 3 human partners: {O76003;P26678;P13533}

6414 Pathogen[ P14075] interacts with 1 human partners: {P26678}

6415 Pathogen[ P0C206] interacts with 4 human partners: {P13533;P50461;O76003;P26678}

6416 Pathogen[ P03363] interacts with 1 human partners: {O76003}

6417 [Cluster 584]GO:0045926+P biological\_process [name] negative regulation of growth [def] "Any process that stops, prevents or reduces the rate or extent of growth, the increase in size or mass of all or part of an organism." [GOC

6418 Pathogen[ Q2Q067] interacts with 13 human partners: {Q8TCS8;P07438;Q8WYH8;Q9BXH1;Q93083;Q9UNL4;P13640;P04732;P04733;P80294;P04731;P80297;P02795}

6419 Pathogen[ P0C214] interacts with 14 human partners: {Q9UNL4;P13640;P80297;Q9BXH1;P04732;Q8TCS8;P02795;P04733;P07438;P80294;P04731;Q93083;Q8WYH8;P51553}

6420 Pathogen[ P03346] interacts with 14 human partners: {Q9UNL4;Q8WYH8;P04732;P80294;P07438;P04733;P13640;Q93083;P80297;Q8N339;Q8TCS8;P02795;P04731;Q9BXH1}

6421 Pathogen[ Q85601] interacts with 14 human partners: {P80294;Q9BXH1;P04732;Q93083;P07438;Q9UNL4;P02795;Q8N339;P80297;P04733;Q8TCS8;Q8WYH8;P04731;P13640}

6422 Pathogen[ P14079] interacts with 14 human partners: {P80297;Q93083;P02795;Q8N339;Q9UNL4;P80294;P07438;Q9BXH1;P13640;P04731;P04732;P04733;Q8WYH8;Q8TCS8}

6423 Pathogen[ P03383] interacts with 13 human partners: {P04733;P80294;Q93083;P13640;P80297;Q9UNL4;Q8TCS8;Q8WYH8;P02795;P04732;P04731;Q9BXH1;P07438}

- 6424 Pathogen[ P03410] interacts with 14 human partners: {Q8WYH8;Q8TCS8;P07438;P80297;Q9BXH1;P04733;Q9UNL4;Q8N339;P13640;P04731;P02795;Q93083;P80294;P04732}
- 6425 Pathogen[ P14075] interacts with 13 human partners: {P04733;P80297;P07438;Q93083;P13640;Q9BXH1;P80294;Q9UNL4;Q8TCS8;P02795;P04731;Q8WYH8;P04732}
- 6426 Pathogen[ P0C206] interacts with 14 human partners: {P07438;P13640;Q8TCS8;Q8WYH8;P04732;Q9BXH1;P04733;P80294;Q93083;P04731;Q8N339;P02795;Q9UNL4;P80297}
- 6427 Pathogen[ P03363] interacts with 12 human partners: {P80294;P80297;P02795;P13640;P04732;Q9UNL4;P04731;P07438;P04733;Q9BXH1;Q93083;Q8WYH8}
- 6428 [Cluster 585]GO:0006281+P biological\_process [name] DNA repair [def] "The process of restoring DNA after damage. Genomes are subject to damage by chemical and physical agents in the environment (e.g. UV and ionizing radiations, chemical mutagens, fungal and bacterial toxins, etc.) and by free radicals or alkylating agents endogenously generated in metabolism. DNA is also damaged because of errors during its replication. A variety of different DNA repair pathways have been reported that include direct reversal, base excision repair, nucleotide excision repair, photoreactivation, bypass, double-strand break repair pathway, and mismatch repair pathway." [PMID
- 6429 Pathogen[ Q2Q067] interacts with 239 human partners: {Q9Y253;Q92900;Q9Y5K5;Q9NWS1;Q2YD98;Q15054;Q9P2Y5;P25490;P52434;P0C1Z6;Q9Y2M0;Q6NVH7;Q96SD1;Q93009;Q9BW66;Q99502;Q6ZW49;Q7Z2Z1;Q99638;Q86UA6;Q8IY18;Q12888;Q6PJ8;Q92889;Q9HB96;P27694;P49959;Q96LA8;Q13889;Q95257;Q6NS38;Q52LR7;Q7Z589;Q95997;Q8N0Z6;Q15233;Q96019;Q95243;Q99708;P18887;Q13111;Q00167;Q9C086;P36639;Q96T88;P19388;P52435;Q9UIF7;Q7Z2E3;Q9UHC1;Q969S2;Q96B01;P35244;Q95347;P32780;Q8N2Z9;A8MT69;Q9UPV0;Q96EZ8;Q96S55;Q9UNA4;P06748;P30876;Q14757;Q9NWX8;P19387;P61218;Q92759;Q96AH0;P54727;Q9H981;Q53TQ3;Q9UBZ9;Q92547;Q86YC2;P49005;Q16531;Q95551;P38935;Q13156;Q9BQ15;Q7Z6Z7;Q9NVI1;Q00597;Q43542;Q06609;Q9H9Q4;Q8NBZ0;P11388;P54725;Q14669;P61077;P22674;P63165;Q68DK2;P27695;Q08050;Q13112;P12004;Q43502;P63146;P06746;P24522;Q1ZZU3;P62487;Q99504;P29372;Q8NB91;A4GXA9;Q9BTP7;Q99728;P51948;Q60934;Q96017;Q9BQ83;P15927;Q8N140;Q8N3C0;Q9NPD8;Q2TAK8;Q9NUW8;Q00255;Q7LG56;P56282;P54278;Q9UQ84;Q9NPI8;P50750;Q6P4R8;Q8WXE1;P09874;Q13426;Q9HCU8;Q96Q83;P50613;Q8IWL9;P23246;P61088;P46100;Q9NRY2;Q6UWZ7;Q15527;Q03468;P12956;Q68E01;Q60216;P39748;Q6WBX8;Q9UBU8;P62875;P24928;Q96HA7;Q15014;Q76064;Q13216;Q43299;P43351;Q75943;P78549;P23193;Q9UM11;Q9H816;Q13620;P0CG47;Q13619;Q13569;Q14686;Q96T76;P04818;Q9UI95;Q96MG7;P41208;Q96NY9;Q86XK3;Q19AV6;Q9UNE7;Q9ULG1;Q0VG06;Q9UHN1;P0CG48;P49459;P35251;Q14676;Q96AY2;Q9Y294;Q96PK6;Q9NUS5;P16455;Q86WJ1;Q01831;Q96MF7;Q6ZRQ5;Q9P287;Q14683;Q9NPD8;P53803;P24941;Q9BQA5;P13010;Q8IY92;Q9UUK3;Q9NRD1;Q9Y5B9;P62987;Q92466;Q9H040;P13051;Q60870;Q6ZYL4;Q15287;Q6P1K8;Q9HAW4;Q9UMS4;Q6PI98;Q9NX6;Q9H9F9;Q8IYD8;Q60671;Q15360;Q9NXR7;Q96RL1;Q9HCS7;Q16526;P62877;Q53HV7;Q13888;Q8NG50;Q60921;P28715;Q9NW38;Q9BXW9;Q8N9B5;P51946;Q6NZ36;P78543;Q08945;Q71UM5;P23025;P62979}
- 6430 Pathogen[ P0C214] interacts with 238 human partners: {P43351;Q8IWL9;Q95551;Q96B02;Q95243;Q8IY18;Q15287;Q9H9Q4;P51946;Q13619;Q9HC57;P27695;Q00597;Q06609;Q9H040;P04818;P24522;Q99728;Q13620;Q13156;Q9BQ83;Q96S55;P49959;Q9H816;P30876;Q8WXE1;Q52LR7;Q9NXX6;P78543;Q92889;P13010;P06746;Q9H9F9;P53803;Q8N0Z6;Q53TQ3;P06748;P50750;Q92900;Q2TAK8;P50613;Q13112;Q15014;P23025;Q00167;Q9C086;Q96SD1;P52435;Q13111;Q53HV7;Q15233;Q96NY9;Q9NWX8;Q99708;Q9UBZ9;P23246;Q6ZYL4;P54725;Q6NZ36;Q9NUS5;Q96AH0;Q7Z589;P49459;P61218;Q9ULG1;Q71UM5;P35251;Q6WBX8;Q9NRD1;Q9Y2M0;P20585;Q14676;P49005;Q68E01;Q14686;P38935;Q9HAW4;P62877;Q9HCU8;Q9UI95;Q6ZRQ5;Q96PK6;Q96B01;P62875;Q9P2Y5;P54727;Q75943;P32780;P41208;P16455;P24928;Q86YC2;P62987;Q9NPI8;Q60671;Q9Y294;Q8N9B5;Q14669;Q9BXW9;Q14683;Q01831;Q16526;P39748;Q1ZZU3;P0CG47;Q9UUK3;Q15054;Q13888;Q12888;Q7Z6Z7;P78549;P29372;P52434;Q08945;Q9UQ84;Q95997;P27694;Q9NUW8;Q9NXR7;Q68DK2;P54278;Q8IY92;Q9NWS1;Q92547;Q9P287;Q86UA6;Q9BQA5;P19387;Q9NPD8;P23193;Q86XK3;Q9UM11;P19388;Q15527;P40692;Q13569;Q14757;Q92466;Q7LG56;Q99638;P62979;Q19AV6;Q8IYW5;Q96EZ8;Q96Q83;Q9UNE7;Q76064;Q9NPD8;P56282;Q96HA7;Q8NG50;Q16531;Q9Y253;Q60216;Q8IYD8;Q86WJ1;Q03468;Q96019;Q92759;Q7Z2Z1;P63146;P12956;Q00255;Q9NRY2;P61088;P13051;Q96T76;Q9BQ15;Q8NBZ0;Q9NW38;P09874;Q9H981;Q8N140;Q9BTP7;P55072;Q96LA8;Q9UHN1;Q99502}
- 6431 Pathogen[ P03346] interacts with 269 human partners: {Q60921;Q12888;Q9NS91;Q8N2Z9;P12004;Q9Y253;Q8NB91;P46063;Q13263;Q93009;P38935;Q7L9B9;P28715;Q7Z5Q5;Q76064;P52434;Q95677;Q96HA7;P12956;Q9NVI1;Q7Z2Z1;Q9HCU8;Q06609;Q96MF7;Q95551;Q96017;Q6ZRQ5;Q96SD1;P46100;Q8N9B5;Q6PCD5;Q9UM11;Q8IWL9;P06748;Q52LR7;Q00167;P11388;Q43502;P62987;P27694;Q95714;A8MT69;Q99728;Q86XK3;Q96EZ8;Q9C086;Q6P1K8;Q9UNA4;P07992;Q9H9F9;P35244;Q6WBX8;Q15360;Q9UBZ9;Q99708;P35250;Q9ULG1;P25490;P24941;Q13426;Q9UMS4;Q49AN0;Q16531;Q13156;Q96AH0;P23246;Q13888;P56282;Q96MG7;P0CG48;Q9UUK3;Q9NUW8;P13010;P53803;Q14757;Q95347;Q7Z589;Q2TAK8;P36639;Q71UM5;Q0VG06;P61218;Q9UHN1;Q08050;Q8WV22;Q96RL1;Q16526;Q9UIF7;Q96AY2;P49005;P49459;Q99638;Q99502;Q6PI98;Q9UI95;Q92698;Q68E01;Q9HCS7;P55072;P61077;Q95997;Q9BTP7;Q08945;P0C1Z6;Q8N3C0;Q13620;Q13889;Q96NY9;P61088;Q75943;Q6NZ36;Q7Z333;Q9UHC1;Q8N0Z6;P62487;Q969S2;P41208;Q60870;P19388;Q53HV7;Q9HAW4;Q14676;Q14694;Q96019;Q7LG56;Q8N140;Q96S55;Q9NXR7;Q03468;Q00255;Q15287;Q9BQ15;Q15315;Q6ZYL4;P63146;Q01831;Q14683;Q9NWS1;Q9UBU8;P52435;Q9UNE7;P130

51;Q9H040;P51587;P20585;Q8WXE1;P51946;P63165;P29372;P50750;Q96B01;O43542;Q9Y5B9;Q8NG  
50;Q14669;Q13111;Q9H981;P36954;Q9NRD1;Q9NUS5;Q53TQ3;O75771;Q6TAR4;Q19AV6;P15927;Q9Y2  
Y4;P54727;Q86YC2;Q9BW66;P35249;Q86UA6;Q9NPD8;Q13216;P49959;Q2YD98;Q9HB96;Q8IYW5;Q8NB  
Z0;P09874;Q15014;Q9NWW8;Q96Q83;Q68DK2;P62979;P78549;P43351;Q92759;O60934;P18887;Q152  
33;Q92889;Q92547;P30876;Q00597;Q9BXW9;P0CG47;Q9UQ84;Q9H9Q4;Q13619;Q13569;Q9UGN5;O952  
43;P54725;P54278;Q6NVH7;Q9NRY2;Q8IYD8;Q7Z2E3;Q6P4R8;P23025;O60671;Q6PJP8;P35251;Q9Y6  
F1;Q96FW1;Q9BQ83;P24928;P23193;P27695;Q9NPI8;Q9P287;O94782;Q9NP87;O43299;P39748;O952  
57;Q92466;Q9P2Y5;Q9NW38;Q13112;O95071;Q86WJ1;Q8IY92;O43543;Q8IY18;Q92900;Q9H816;Q995  
04;Q6UWZ7;O15527;Q9Y2M0;P40937;P06746;Q1ZZU3;Q9UBZ4;P78543;Q9Y294;Q7Z6Z7;O60216;Q96P  
K6;P54277;P51948;A4GXA9;P22674;Q9Y5K5;P32780;Q96LA8;Q96T88;Q96T76;P62875;Q15054;P193  
87;Q6ZW49;P24522;Q9UPV0;Q9NXX6;Q9BQA5;Q14686}

6432 Pathogen[ Q85601] interacts with 260 human  
partners: {P43351;Q9UBZ4;P51946;P22674;Q15014;Q9NWS1;Q9Y2M0;P36954;O15527;Q9HCS7;Q96T  
76;P09874;O43502;O15315;Q96PK6;Q96HA7;P23025;Q53TQ3;Q7Z2Z1;Q9BTP7;P63146;Q96RL1;Q018  
31;O96017;Q6ZYL4;Q93009;Q96AH0;O95347;Q8IYD8;Q9UQ84;Q8WXE1;P50750;Q52LR7;Q92547;Q9H0  
40;P18887;Q969S2;Q6NZ36;P13051;Q9BXW9;Q8IY18;Q16531;Q9UI95;P56282;Q9P2Y5;Q19AV6;O957  
14;Q68E01;P38935;O95677;Q9Y294;Q13888;Q9C086;P16455;Q13112;Q13216;Q9H9F9;P62877;Q9NU  
S5;P35244;Q86UA6;Q99708;A4GXA9;Q13426;Q9UMS4;Q49AN0;Q6NVH7;Q6PCD5;Q9NPI8;Q96MG7;Q9Y2  
Y4;Q1ZZU3;Q9UKK3;Q99728;P53803;Q9UBU8;Q99504;Q2TAK8;P36639;P25490;P61218;P24522;Q96A  
Y2;O43299;O95243;Q71UM5;Q9BQ15;Q9Y5B9;O96019;Q14669;Q9UGP5;P49959;P0CG48;P49005;Q96B  
02;Q9BW66;P51948;Q9NPD8;O60216;Q92698;Q6P1K8;Q9NRY2;Q15054;P61077;P27694;Q6ZRQ5;O435  
42;Q00597;Q96FI4;P0C1Z6;Q12888;Q96NY9;Q92889;O14757;Q7Z589;O75943;Q13263;P28715;Q8NG  
50;Q8N0Z6;P62487;Q14686;O60870;P19388;Q9UPV0;Q8NBZ0;Q9Y6F1;Q03468;Q9HB96;Q6PI98;Q9H9  
81;Q7LG56;Q8N140;O76064;P54727;Q8IY92;Q9NVI1;P15927;Q92759;Q9HAW4;P32780;P78543;Q146  
83;P52435;Q96SD1;P54725;Q99502;P20585;Q9UBZ9;Q53HV7;Q6P4R8;A8MT69;Q96B01;O60921;Q9Y5  
K5;Q6UWZ7;Q9NWW8;P35251;P11388;Q96T88;Q9UBT6;O95257;O00255;Q9NUW8;Q6TAR4;P06748;Q9NW  
38;Q86YC2;Q8N2Z9;Q9ULG1;Q13569;P50613;P49459;Q8IYW5;Q6ZW49;P23193;Q68DK2;P62979;Q8IW  
19;O15360;Q6NS38;Q9HCU8;Q9BQA5;Q15233;Q9UM11;O60671;P0CG47;P63165;Q96Q83;Q96S55;Q9UI  
F7;P54278;O15287;Q08945;Q9UGN5;Q08050;Q9UHC1;Q7Z6Z7;Q13156;Q6WBX8;P19387;Q7Z2E3;Q6PJ  
P8;P06746;P12004;Q86WJ1;Q9BQ83;P24928;P30876;P62987;Q9P287;Q13620;P52434;Q13111;Q0VG  
06;Q9NP87;P23246;P39748;P40692;P78549;Q92466;P61088;Q16526;O95071;P19447;O00167;Q929  
00;Q9H816;Q96EZ8;Q9NXX6;Q9UNE7;Q8WV22;Q13619;Q06609;Q86XK3;Q9UHN1;Q8N9B5;Q9Y253;P249  
41;Q9UNA4;P27695;Q14676;P46100;Q9NXX7;Q99638;P51587;O95551;P62875;O95997;Q96LA8;Q9H9  
Q4;P13010;P12956;Q96MF7;Q9NS91;Q8N3C0;P29372;O60934;P41208;Q9NRD1}

6433 Pathogen[ P14079] interacts with 253 human  
partners: {O60671;Q9Y5B9;P62875;P11388;Q15014;O15315;Q9NWS1;P20585;Q9BQ15;Q8TAT5;P098  
74;P78543;Q08945;Q9ULG1;Q9UIF7;Q9Y2Y4;Q96B01;P0CG48;Q9UNA4;Q99502;Q8NB91;Q68DK2;P287  
15;Q96MF7;Q16526;Q9UBU8;Q96LA8;Q96NY9;P19387;Q52LR7;P51946;Q9C0B1;Q9UGP5;Q8IYD8;Q9UG  
N5;P62487;Q8N9B5;Q9H9Q4;P40937;P13010;Q13620;P52434;P40692;Q9UBZ4;Q6WBX8;Q49AN0;Q9NP  
I8;Q9H040;Q9NPD8;Q16531;Q8NG50;P49005;O15514;P30876;P61088;Q00597;Q6UWZ7;P61218;Q8WXE1;P542  
78;P29372;O00487;Q92698;P51587;O60216;Q9UHC1;P23246;Q8NBZ0;Q6NZ36;Q9HCU8;Q9UBZ9;Q131  
12;Q13216;P16455;Q13889;Q9BXW9;P53803;Q13111;P62979;Q86YC2;O60934;O15527;P63165;P785  
49;Q9BQA5;O60870;Q13156;Q9HCS7;P61077;Q9UKK3;Q96AH0;Q96AY2;P23025;P62877;P62987;Q7LG  
56;Q9BQ50;Q7L9B9;A4GXA9;Q2TAK8;Q6NVH7;P46100;Q9NVI1;Q6PI98;P50613;Q9H981;Q13888;Q150  
54;P12956;Q9HAW4;P35250;Q9NUW8;Q9NXX7;Q9Y5K5;P19388;Q9UMS4;Q8N8Q3;O75943;Q96HA7;Q6ZY  
L4;P36639;O95347;Q9BW66;Q9UM11;Q7Z5Q5;Q99708;Q0VG06;Q96S55;Q6NS38;Q9NWW8;O95243;P562  
82;P52435;Q8N2Z9;P18887;P35251;P49459;Q86WJ1;Q19AV6;P24522;P0C1Z6;Q969S2;Q6ZW49;Q86U  
A6;Q92759;Q96FI4;Q71UM5;Q92889;Q68E01;P27695;Q9Y2M0;Q1ZZU3;A8MT69;Q96RL1;Q8N140;O955  
51;P06748;O43502;Q9NSU2;P54277;O95997;Q9NP87;Q6P4R8;Q8N0Z6;O43543;P32780;Q53HV7;P412  
08;P06746;P15927;Q14676;Q92547;Q9Y253;P23193;O43299;Q96SD1;P27694;Q92900;Q8IY18;Q996  
38;Q9HB96;Q9UQE7;Q9NRD1;Q99504;Q03468;Q9BTP7;Q92466;P38935;P12004;Q9NRY2;Q96MG7;P249  
28;Q9NUS5;Q01831;Q9BQ83;O00167;P52701;Q6PJP8;Q13569;Q9Y294;Q12888;Q6P1K8;Q2YD98;Q9UH  
N1;P25490;Q6ZRQ5;Q15233;P35244;Q06609;Q14683;Q9NW38;P0CG47;P54727;Q96Q83;O95257;Q7Z2  
Z1;P36954;Q7Z2E3;Q53TQ3;Q9P2Y5;O00255;P04818;Q9UBT6;P63146;Q9H816;Q96EZ8;Q9P287;O153  
60;Q9NXX6;Q13426;Q9UQ84;Q7Z589;Q96T76;Q14686;O60921;Q9Y6F1;Q96PK6;Q9H9F9;P07992;Q96F  
W1;P19447;O43542;Q86XK3;Q13619;P13051;P22674;Q8IY92;P49917;P39748;Q9UPV0;P50750;P433  
51;P51948;Q8IW19}

6434 Pathogen[ P03383] interacts with 198 human  
partners: {P43351;Q86UA6;Q14683;Q7Z2E3;P53803;Q99504;Q9Y253;Q9UHN1;Q15014;Q12888;O147  
57;Q8N2Z9;Q96T76;Q06609;O60671;P06746;O96019;P06748;Q68E01;P13010;Q9NXX6;Q9HCU8;Q9NW  
S1;O00167;Q68DK2;P54278;Q6ZYL4;P62987;Q13216;P51948;Q8WXE1;Q52LR7;Q6P4R8;P36639;Q96R  
L1;Q9H981;Q6NVH7;Q9HCS7;O15527;Q9UI95;Q13888;P23193;Q19AV6;P27694;Q53HV7;Q53TQ3;Q9BX  
W9;P22674;Q9C086;A4GXA9;Q9UHC1;P41208;Q8IW19;Q14686;Q96B01;Q9H9Q4;P24522;Q6PJP8;O953  
47;Q9UBU8;P52434;P61218;Q08945;Q71UM5;P49005;Q6ZW49;Q9NUS5;Q96S55;O60216;Q96MF7;Q6P1  
K8;Q01831;Q6PI98;Q9H9F9;O60921;P61077;Q6WBX8;P61088;P56282;Q7Z589;P62487;P46100;P293  
72;Q6ZRQ5;O60870;O95243;Q9H816;P78543;Q9NVI1;P15927;P19387;Q96PK6;Q7Z2Z1;Q13111;P506  
13;Q9H040;P51946;P24928;Q03468;Q9HAW4;O15287;Q9BQA5;P24941;Q13426;Q9Y294;Q96AY2;P098  
74;P23025;Q9UM11;P54725;Q2TAK8;P63165;P50750;Q8NBZ0;P35244;A8MT69;O00255;P0C1Z6;Q9Y5  
K5;Q8N140;Q9Y2M0;Q9NRY2;P54727;Q9UBZ9;Q92759;Q15054;Q13569;O43299;Q9HB96;Q9NWW8;Q8IY  
92;Q99708;Q9P2Y5;Q99638;Q9UKK3;Q9UPV0;P62979;Q00597;Q86XK3;P0CG47;P62875;Q96MG7;Q9NU  
W8;P62877;P52435;Q8N9B5;O95997;O15360;Q9BQ15;P49459;Q9BW66;Q86YC2;Q15233;P0CG48;Q9NP  
D8;O43542;P38935;Q96HA7;P18887;P27695;O95551;P63146;P23246;P19388;Q16531;Q96Q83;Q9P2  
87;Q13156;Q9NRD1;Q92547;Q14676;Q92466;P30876;Q9NW38;P13051;Q96EZ8;Q96AH0;Q9NPI8;Q1ZZ  
U3;Q92900;Q13112;Q9Y5B9;Q2YD98;P32780;Q9NXX7;Q9BQ83;Q9BTP7;Q6UWZ7;Q96LA8;Q9UMS4;O952  
57;Q0VG06;P12956;O96017;P35251;Q13620;Q96NY9;Q16526}

6435 Pathogen[ P03410] interacts with 264 human

partners: {Q96RL1;Q96FW1;Q08945;P23025;P49959;P40692;Q9H981;P18887;P23246;P35244;Q9H040;Q96FI4;Q9UI95;P0CG48;Q9NXR7;Q96T76;Q99708;P19387;P20585;Q96LA8;Q13889;Q96PK6;Q9NRD1;Q8N3C0;P36954;Q9NVI1;Q96AY2;Q9H816;Q6PI98;Q9P2Y5;Q52LR7;O75943;Q15014;Q9BQ15;Q92698;Q8IYD8;Q9NWV8;Q92900;Q9BQ50;Q15233;A4GXA9;P36639;P63165;P07992;Q9Y5B9;O15315;Q99502;Q9NUS5;P24928;O96019;Q9BQA5;Q9UBT6;Q9BUN9;Q13620;Q9UQE7;Q14686;Q1ZZU3;P54277;O43542;Q8NB91;P24522;Q19AV6;Q53TQ3;P51946;Q9XNA4;Q9P287;Q6WBX8;O60870;Q86UA6;Q8WXE1;Q9ULG1;Q8NG50;Q9UBU8;P49459;Q2TAK8;P22674;Q6ZYL4;Q9HAW4;O43299;P06746;P30876;Q92889;Q96S55;Q96Q83;P39748;P06748;Q6NVH7;P56282;Q9NSU2;Q9BTP7;P61088;Q96SD1;P43351;O95997;P23193;Q03468;Q9BQ83;Q9NXX6;P62979;P54725;P28715;Q8TAT5;Q6NS38;P78549;P0C1Z6;Q92466;O15514;O60216;P50613;Q01831;P25490;Q53HV7;Q9Y6F1;Q96MF7;Q96MG7;O95347;O95243;Q7Z2E3;P50750;Q7Z5Q5;Q9HCS7;Q9UGP5;Q9UBZ9;P12956;Q9UNE7;Q9UBZ4;O95551;P38935;P35251;P52701;Q9UM11;P52435;Q8IY92;O43502;Q9Y294;O15287;Q9H9F9;Q9NPI8;Q6PJP8;P04818;P24941;Q99638;Q00597;O15527;Q9Y253;Q96AH0;Q9UGN5;P51587;Q13111;Q6TAR4;Q2TB18;Q96NY9;P53803;Q13569;Q6P4R8;Q13112;Q2YD98;P16455;P62877;P19447;Q8IWI9;P63146;Q14683;Q13156;Q9NUW8;P62875;Q15054;P09874;Q16526;O96017;O14757;O60671;P46100;Q49AN0;Q9HB96;Q6UWZ7;O60921;Q99504;Q7Z2Z1;P61218;Q16531;Q13426;O15360;Q12888;Q86WJ1;Q92547;P11388;Q13216;P51948;Q13888;P78543;Q9Y2Y4;P52434;Q9NPD8;Q96EZ8;P62987;Q8N9B5;P27695;O00167;Q13619;Q9UMS4;Q8IY18;P13010;O43543;Q9Y5K5;Q9NWS1;Q86XK3;A8MT69;Q8N140;P62487;Q9UPV0;Q9UKK3;Q969S2;P49005;P27694;P54278;Q8NOZ6;Q14676;P13051;P15927;P35250;Q9NP87;Q9UQ84;Q9C0B1;Q6NZ36;O95257;Q9Y2M0;Q9NW38;P40937;Q96B01;O00255;P41208;Q9UHN1;P19388;Q68DK2;Q9C086;P12004;P32780;Q68E01;Q86YC2;Q86Y49;Q6ZWA9;P29372;Q6P1K8;Q7LG56;P0CG47;Q92759;O60934;Q9NY2;Q7L9B9;Q71UM5;Q9UIF7;Q0VG06;Q9UHC1;Q9HCU8;Q9H9Q4;P61077;Q06609;Q8N2Z9;Q7Z589;Q9BW66;Q8NBZ0;P54727;Q6ZRQ5}

6436 Pathogen[ P14075] interacts with 204 human

partners: {P43351;Q9P2Y5;P13051;A8MT69;Q6P4R8;Q7Z2E3;Q8NB91;P63165;Q9HB96;Q92900;Q99504;P23246;Q92759;P12956;Q7Z2Z1;Q9NVI1;O15360;Q9BQ83;P24941;Q9UBZ9;Q14683;Q9UBU8;P23025;Q8WXE1;Q2TAK8;Q52LR7;Q9BQA5;Q96Q83;Q15014;Q08945;P27695;Q8N140;Q68E01;P30876;Q9UM11;Q9C086;Q01831;Q9NWV8;Q86YC2;Q14686;P61088;Q6ZYL4;P0C1Z6;P49459;P50613;P36639;Q6ZW49;Q9BQ15;P38935;Q9NPI8;O15527;Q53HV7;Q08050;O95257;Q96EZ8;P06746;Q13620;P19388;P61218;Q6ZRQ5;P50750;Q9UIF7;O95997;O60671;Q9BTP7;Q13216;P49005;P19387;O00167;Q9H040;Q96FW1;Q9BW66;Q13111;Q9NXR7;P15927;Q9UI95;P61077;Q95347;Q6UWZ7;Q9NUW8;P99638;Q9NPD8;P62487;Q9Y2M0;Q03468;Q99638;O60870;O00255;Q9UPV0;Q13156;Q9H9Q4;Q9NWS1;Q68DK2;O96019;Q9HAW4;P46100;P35244;Q8NBZ0;Q19AV6;P0CG48;P62979;Q9Y253;Q96HA7;P22674;Q53TQ3;P23193;Q96LA8;Q14676;O96017;Q96PK6;Q9UHC1;Q13889;Q6PI98;Q2YD98;P78543;Q9Y5B9;Q96NY9;P24928;Q8IWI19;P54727;Q9H816;P35251;Q16531;Q15054;P62987;O6748;Q9UMS4;Q96AH0;O43542;O15287;Q13426;P41208;P27694;Q9NXX6;Q15233;P51946;P22780;O60921;Q9HCS7;Q9UHN1;Q9NRD1;P24522;P0CG47;Q96B01;P54725;Q16526;O95243;Q9Y294;Q9H9F9;Q96AY2;Q86UA6;Q12888;Q9H981;Q99502;P54278;Q9HCU8;P63146;P13010;Q9P287;P56282;Q0VG06;Q6NVH7;Q96S55;P62875;Q96MF7;Q13569;Q7Z589;Q92466;Q00597;Q13112;Q1ZZU3;P29372;Q6PJP8;Q99708;Q92547;P52434;Q86XK3;Q6WBX8;Q8N9B5;Q96RL1;Q13619;Q6P1K8;O60216;Q9NRY2;Q9BXW9;Q8IY92;Q96MG7;O14757;Q9NUS5;Q9NUW8;Q06609;P09874;P62877;Q96T76;P18887;Q9Y5K5;P51948;A4GXA9;O43299;Q9UKK3;O95551;P52435;P53803;Q71UM5;Q13888}

6437 Pathogen[ P0C206] interacts with 281 human

partners: {P27695;Q96HA7;O43542;Q13112;Q9Y253;Q8WXE1;O43502;Q9NPI8;Q68DK2;Q2YD98;O60216;Q9UMS4;P0CG48;P54278;Q8N140;P62875;P62877;Q9NPD8;Q96Q83;Q19AV6;Q9Y2M0;P28715;P13010;P54725;Q6PCD5;Q96AY2;O15360;P23193;Q17RS7;Q9UHN1;O00167;Q8WV22;Q9P2Y5;P38935;Q68E01;P49959;P36639;Q9UBU8;Q99504;Q9BQ15;Q9UQ84;P24522;Q9NSU2;P35251;P36954;Q99708;Q13263;P50750;Q9H981;Q8IYW5;O96017;Q9UBT6;Q9BTP7;O15527;P09874;Q6ZW49;Q86YC2;P25490;Q9UNA4;Q9HCU8;Q13156;P52701;P51587;Q15233;Q6NS38;Q7Z5Q5;Q6NZ36;Q13111;Q6PJP8;O60934;Q9HB96;Q8IYD8;O00255;O95997;P40692;P19388;O60870;P61218;P46100;Q6PI98;Q9NUW8;Q96LA8;Q03468;Q52LR7;Q6WBX8;P06746;Q9UHC1;Q96MG7;Q9Y5B9;Q9NS91;Q9UPV0;Q96SD1;Q16531;Q7LG56;Q8NOZ6;Q9UBZ4;Q93009;Q9H816;Q9P287;Q8NBZ0;P49005;Q86XK3;Q15014;Q9BQA5;Q0VG06;Q14669;Q13216;Q8NB91;Q13620;Q9BW66;Q8N9B5;O94762;O43299;A4GXA9;Q9UGP5;O75943;Q53HV7;Q9NRY2;Q9NVI1;Q9Y5K5;Q9Y6F1;P07992;P19447;Q96EZ8;Q9C086;Q6P1K8;Q99638;P23246;P54277;P43351;O96019;P53803;Q13619;Q13569;Q9NRD1;P0C1Z6;P61088;Q96NY9;Q12888;P49917;Q16526;O15514;Q15054;Q9H9Q4;P19387;Q7Z333;Q13888;O15287;Q9UGN5;Q9UQE7;P50613;O95347;O95257;Q7L9B9;Q9UKK3;Q9UNE7;Q9ULG1;P49459;Q13426;Q14683;Q96FW1;Q14676;Q96T88;O15315;Q9NWV8;Q92889;Q7Z589;Q8TAT5;Q01831;Q71UM5;Q96PK6;Q14686;Q99728;P62979;Q92759;O95551;P54727;P49916;Q9UM11;Q96S55;O60921;Q96MF7;Q9NP87;Q96FI4;Q9UBZ9;P55072;P52435;P04818;P62487;P32780;P0CG47;Q96T76;Q08050;Q969S2;Q9Y294;Q9H9F9;Q99502;Q13889;Q86WJ1;Q6ZRQ5;Q92900;P41208;O60671;P56282;Q7Z2Z1;Q00597;O43543;Q6UWZ7;Q06609;P27694;P20585;P11388;P15927;P24928;Q8N2Z9;Q6ZYL4;Q8IWI9;P61077;P06748;Q92466;Q96RL1;Q7Z6Z7;P63165;Q2TAK8;P62987;Q6NVH7;Q9BXW9;P39748;P35244;Q96B01;Q49AN0;Q9BQ83;Q96B02;Q92547;Q9H040;O76064;P13051;Q8IY18;P12956;Q8IY92;Q9HAW4;Q9HCS7;P24941;Q08945;Q1ZZU3;O95071;P16455;Q7Z2E3;Q9NTJ3;Q6P4R8;P29372;O95714;O95243;P22674;P23025;Q9UIF7;Q6TAR4;Q9BX63;Q8NG50;O95677;Q9UI95;P52434;Q9NXX6;P18887;Q8N3C0;Q92698;A8MT69;Q9NW38;Q53TQ3;P51946;Q96AH0;Q9NXR7;P51948;Q9NUS5;P63146;P78543;Q9Y2Y4;P12004;Q9NWS1;P30876;P78549}

6438 Pathogen[ P03363] interacts with 240 human

partners: {Q13112;Q92547;Q9H816;Q9BQ50;P12956;O94762;Q9NW38;P18887;Q9BX63;Q15233;Q9NVI1;Q8IWI9;O15287;P23246;P27694;Q9UGN5;Q6ZYL4;Q9HAW4;Q9Y5K5;Q7Z333;O15527;Q19AV6;P54727;O15360;P49459;Q9P2Y5;Q9H981;Q9ULG1;Q8NG50;P19388;Q6P1K8;Q9BXW9;Q00597;Q9NXX6;Q92900;Q7Z2Z1;Q9BTP7;P30876;Q96LA8;Q9Y2M0;P13010;Q96RL1;Q9HCS7;Q01831;Q13888;Q6UWZ7;Q15014;O95347;Q13111;P32780;Q16531;Q7L9B9;Q92759;P19387;Q9UHC1;Q96AH0;P61218;O95257;Q9Y253;P51946;P25490;Q2YD98;Q8N140;Q52LR7;O60671;Q7Z589;Q96FI4;Q92889;Q9Y294;P35251;P23025;P78543;P13051;Q8N2Z9;Q1ZZU3;Q9NUS5;P24928;P49005;P24941;Q8IYW5;P35244;P63146;P41208;Q68DK2;Q14686;P15927;Q14807;P06748;Q96PK6;Q9UM11;P46100;Q9C086;Q86UA6;O96017;Q7Z6

Z7;P61088;P29372;Q9H9F9;Q6NZ36;Q13619;Q9UBU8;Q96Q83;Q99708;Q08050;Q9HCU8;P20585;Q14669;Q13426;Q86XK3;O96019;Q49AN0;Q8NB91;P63165;Q96T76;P62877;Q9Y5B9;P46063;Q9BQ15;Q13156;P54278;Q9NWX8;Q9BW66;Q9UKK3;Q7Z2E3;P06746;Q6PCD5;Q9UNE7;P0C1Z6;Q7Z5Q5;O60870;Q8IYD8;P54277;Q9BQA5;Q99504;Q9H040;Q9NUW8;Q13620;Q9BQ83;P24522;Q9UI95;Q96AY2;Q9UIF7;Q9H9Q4;P62987;O95243;Q6WBX8;Q96EZ8;Q9NP87;O43542;O95071;Q8N0Z6;Q6PJP8;Q8IY92;Q96S55;P54725;P62487;Q9UPV0;Q99638;P23193;Q2TAK8;Q92466;Q13569;Q71UM5;Q16526;Q9Y2Y4;P43351;Q9NXR7;Q9NPD8;O95714;Q03468;P50750;O00167;Q08945;O60921;O95551;Q96T88;Q15054;P35771;Q8WV22;Q06609;Q9HB96;Q6NVH7;P61077;O95997;Q9UHN1;Q9UNA4;P09874;Q96MG7;Q99728;Q9UMS4;Q13216;Q9NPI8;Q53TQ3;Q6ZW49;Q68E01;Q0VG06;A4GXA9;P22674;Q14676;Q96NY9;Q86WJ1;Q9NWS1;P53803;P52435;Q9UBZ9;P36639;O75943;P52434;Q9NS91;Q9NRD1;Q9P287;Q8IY18;Q96HA7;Q5T890;Q969S2;Q96MF7;Q8NBZ0;Q14683;Q8N9B5;P38935;Q6ZRQ5;Q53HV7;Q9Y6F1;Q6P4R8;Q96FW1;Q9NRY2;Q12888;Q92698;Q96B01;Q8WXE1;A8MT69;Q86YC2;Q8N3C0;O60216;O43502;O43299;Q6TAR4;Q6PI98;O15315;O14757}

6439 [Cluster 586]GO:0031442+P biological\_process [name] positive regulation of mRNA 3'-end processing [def] "Any process that activates or increases the frequency, rate or extent of mRNA 3'-end processing." [GOC

6440 Pathogen[ Q2Q067] interacts with 5 human partners:{Q8WVC0;Q6P1J9;P14635;Q09161;Q8N7H5}

6441 Pathogen[ P0C214] interacts with 5 human partners:{Q09161;P14635;Q6P1J9;Q8N7H5;Q8WVC0}

6442 Pathogen[ P03346] interacts with 5 human partners:{Q09161;P14635;Q8WVC0;Q6P1J9;Q8N7H5}

6443 Pathogen[ Q85601] interacts with 5 human partners:{Q8WVC0;Q6P1J9;Q09161;P14635;Q8N7H5}

6444 Pathogen[ P14079] interacts with 5 human partners:{P14635;Q8WVC0;Q6P1J9;Q8N7H5;Q09161}

6445 Pathogen[ P03383] interacts with 5 human partners:{Q6P1J9;P14635;Q09161;Q8WVC0;Q8N7H5}

6446 Pathogen[ P03410] interacts with 5 human partners:{Q8WVC0;Q8N7H5;P14635;Q6P1J9;Q09161}

6447 Pathogen[ P14075] interacts with 5 human partners:{Q09161;P14635;Q8WVC0;Q8N7H5;Q6P1J9}

6448 Pathogen[ P0C206] interacts with 5 human partners:{Q09161;Q8N7H5;Q8WVC0;P14635;Q6P1J9}

6449 Pathogen[ P03363] interacts with 4 human partners:{Q8WVC0;Q6P1J9;Q8N7H5;Q09161}

6450 [Cluster 587]GO:0007163+P biological\_process [name] establishment or maintenance of cell polarity [def] "Any cellular process that results in the specification, formation or maintenance of anisotropic intracellular organization or cell growth patterns." [GOC

6451 Pathogen[ Q2Q067] interacts with 7 human partners:{Q9BYG5;Q7Z460;Q12959;Q9NVD7;O75122;P60953;Q14244}

6452 Pathogen[ P0C214] interacts with 7 human partners:{P60953;O75122;Q14244;Q12959;Q7Z460;Q9BYG5;Q9NVD7}

6453 Pathogen[ P03346] interacts with 9 human partners:{Q8WXH0;P60953;Q8TEW0;Q9BYG5;O75122;Q9NVD7;Q14244;Q7Z460;Q12959}

6454 Pathogen[ Q85601] interacts with 7 human partners:{Q9NVD7;Q9BYG5;Q14244;O75122;Q12959;P60953;Q7Z460}

6455 Pathogen[ P14079] interacts with 10 human partners:{Q01518;Q9BYG5;Q7Z460;P40123;Q14244;Q8TEW0;P61158;Q8WXH0;O75122;Q9NVD7}

6456 Pathogen[ P03383] interacts with 4 human partners:{Q14244;Q7Z460;P60953;Q9BYG5}

6457 Pathogen[ P03410] interacts with 11 human partners:{Q7Z460;Q12959;P40123;P60953;Q8TEW0;Q9NVD7;Q01518;Q14244;O75122;Q8WXH0;Q9BYG5}

6458 Pathogen[ P14075] interacts with 4 human partners:{P60953;Q7Z460;Q9BYG5;Q14244}

6459 Pathogen[ P0C206] interacts with 9 human partners:{Q9NVD7;Q9BYG5;Q14244;O75122;Q8TEW0;P60953;Q8WXH0;Q7Z460;Q12959}

6460 Pathogen[ P03363] interacts with 6 human partners:{Q12959;Q14244;Q7Z460;Q9BYG5;Q9NVD7;P60953}

6461 [Cluster 588]GO:0090128+P biological\_process [name] regulation of synapse maturation [def] "Any process that modulates the extent of synapse maturation, the process that organizes a synapse so that it attains its fully functional state." [GOC

6462 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NRI5}

6463 Pathogen[ P0C214] interacts with 1 human partners:{Q9NRI5}

6464 Pathogen[ P03346] interacts with 1 human partners:{Q9NRI5}

6465 Pathogen[ Q85601] interacts with 1 human partners:{Q9NRI5}

6466 Pathogen[ P14079] interacts with 1 human partners:{Q9NRI5}

6467 Pathogen[ P03383] interacts with 1 human partners:{Q9NRI5}

6468 Pathogen[ P03410] interacts with 1 human partners:{Q9NRI5}

6469 Pathogen[ P14075] interacts with 1 human partners:{Q9NRI5}

6470 Pathogen[ P0C206] interacts with 1 human partners:{Q9NRI5}

6471 Pathogen[ P03363] interacts with 1 human partners:{Q9NRI5}

6472 [Cluster 589]GO:0021799+P biological\_process [name] cerebral cortex radially oriented cell migration [def] "The migration of cells in the developing cerebral cortex in which cells move from the ventricular and/or subventricular zone toward the surface of the brain." [GO\_REF

6473 Pathogen[ Q2Q067] interacts with 3 human partners:{P20265;Q9NRI5;P63000}

6474 Pathogen[ P0C214] interacts with 3 human partners:{P63000;Q9NRI5;P20265}



6475 Pathogen[ P03346] interacts with 4 human partners:{Q9NRI5;P20264;P20265;P63000}  
6476 Pathogen[ Q85601] interacts with 4 human partners:{P63000;Q9NRI5;Q9GZM8;P20265}  
6477 Pathogen[ P14079] interacts with 4 human partners:{P20265;Q9NRI5;Q15078;Q9GZM8}  
6478 Pathogen[ P03383] interacts with 3 human partners:{Q9NRI5;P63000;P20265}  
6479 Pathogen[ P03410] interacts with 4 human partners:{P63000;Q9GZM8;Q9NRI5;P20265}  
6480 Pathogen[ P14075] interacts with 3 human partners:{P20265;Q9NRI5;P63000}  
6481 Pathogen[ P0C206] interacts with 4 human partners:{Q9GZM8;P63000;Q9NRI5;P20265}  
6482 Pathogen[ P03363] interacts with 4 human partners:{P63000;P20264;P20265;Q9NRI5}  
6483 [Cluster 590]GO:0007254+P biological\_process [name] JNK cascade [def] "A cascade of protein kinase activities, culminating in the phosphorylation and activation of a member of the JUN kinase subfamily of stress-activated protein kinases, which in turn are a subfamily of mitogen-activated protein (MAP) kinases that is activated primarily by cytokines and exposure to environmental stress." [GOC  
6484 Pathogen[ Q2Q067] interacts with 13 human partners:{Q9NYJ8;Q8TDY2;Q8N5C8;Q9Y6K9;Q13233;P0CG47;P45984;P0CG48;O43318;P62987;Q13227;Q15750;P62979}  
6485 Pathogen[ P0C214] interacts with 13 human partners:{Q9Y6K9;Q8TDY2;O43318;Q8N5C8;Q13233;P0CG48;Q13227;P62987;Q15750;P0CG47;P45984;P62979;Q9NYJ8}  
6486 Pathogen[ P03346] interacts with 16 human partners:{Q9Y6K9;P45984;P62987;P0CG48;Q8TDY2;Q8N5C8;Q13098;Q13227;Q9NYJ8;P46109;Q13233;Q15750;P62979;P0CG47;P45985;O43318}  
6487 Pathogen[ Q85601] interacts with 14 human partners:{Q15750;Q9NYJ8;Q8TDY2;P0CG48;Q8N5C8;Q9Y6K9;Q13098;P62979;P0CG47;P45984;Q13233;P62987;O43318;Q13227}  
6488 Pathogen[ P14079] interacts with 19 human partners:{Q8N5C8;P0CG48;O43187;P53779;Q8TDY2;Q13098;P46109;Q15750;P62979;P62987;P45984;Q6NZY7;P45983;Q9Y6K9;P45985;Q13227;P0CG47;Q9Y239;Q99836}  
6489 Pathogen[ P03383] interacts with 13 human partners:{Q9Y6K9;P62987;Q13233;Q8TDY2;O43318;Q8N5C8;P62979;P0CG47;P45984;Q13227;P0CG48;Q9NYJ8;Q15750}  
6490 Pathogen[ P03410] interacts with 20 human partners:{Q13227;P0CG48;Q9Y239;Q13098;Q15750;O43187;Q8TDY2;Q13233;Q6NZY7;P62979;O43318;P45985;Q9NYJ8;Q8N5C8;P45984;P62987;P53779;Q9Y6K9;P46109;P0CG47}  
6491 Pathogen[ P14075] interacts with 13 human partners:{Q15750;Q8TDY2;Q8N5C8;P0CG48;P62979;O43318;P62987;Q13227;P0CG47;Q9Y6K9;Q13233;P45984;Q9NYJ8}  
6492 Pathogen[ P0C206] interacts with 15 human partners:{P0CG48;Q9Y6K9;Q8N5C8;P45984;O43318;Q13233;P62979;Q8TDY2;Q9NYJ8;P45985;P0CG47;Q13098;Q15750;P62987;Q13227}  
6493 Pathogen[ P03363] interacts with 11 human partners:{Q13227;Q9NYJ8;Q9Y6K9;P46109;O43318;Q15750;Q8TDY2;P62987;Q8N5C8;Q13233;Q13098}  
6494 [Cluster 591]GO:0000472+P biological\_process [name] endonucleolytic cleavage to generate mature 5'-end of SSU-rRNA from (SSU-rRNA, 5.8S rRNA, LSU-rRNA) [def] "Endonucleolytic cleavage between the 5'-External Transcribed Spacer (5'-ETS) and the 5' end of the SSU-rRNA of a tricistronic rRNA transcript that contains the Small Subunit (SSU) rRNA, the 5.8S rRNA, and the Large Subunit (LSU) rRNA in that order from 5' to 3' along the primary transcript, to produce the mature end of the SSU-rRNA." [GOC  
6495 Pathogen[ Q2Q067] interacts with 2 human partners:{P78316;O75691}  
6496 Pathogen[ P0C214] interacts with 2 human partners:{O75691;P78316}  
6497 Pathogen[ P03346] interacts with 2 human partners:{O75691;P78316}  
6498 Pathogen[ Q85601] interacts with 2 human partners:{O75691;P78316}  
6499 Pathogen[ P14079] interacts with 2 human partners:{O75691;P78316}  
6500 Pathogen[ P03383] interacts with 2 human partners:{O75691;P78316}  
6501 Pathogen[ P03410] interacts with 2 human partners:{P78316;O75691}  
6502 Pathogen[ P14075] interacts with 2 human partners:{P78316;O75691}  
6503 Pathogen[ P0C206] interacts with 2 human partners:{P78316;O75691}  
6504 Pathogen[ P03363] interacts with 2 human partners:{O75691;P78316}  
6505 [Cluster 592]GO:0050688+P biological\_process [name] regulation of defense response to virus [def] "Any process that modulates the frequency, rate or extent of the antiviral response of a cell or organism." [GOC  
6506 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9UII4;Q13114;P09914}  
6507 Pathogen[ P0C214] interacts with 3 human partners:{P09914;Q9UII4;Q13114}  
6508 Pathogen[ P03346] interacts with 3 human partners:{Q9UII4;Q13114;P09914}  
6509 Pathogen[ Q85601] interacts with 2 human partners:{Q13114;P09914}  
6510 Pathogen[ P14079] interacts with 3 human partners:{P09914;Q8NEV9;Q13114}  
6511 Pathogen[ P03383] interacts with 1 human partners:{Q13114}  
6512 Pathogen[ P03410] interacts with 3 human partners:{Q8NEV9;P09914;Q13114}  
6513 Pathogen[ P14075] interacts with 1 human partners:{Q13114}  
6514 Pathogen[ P0C206] interacts with 2 human partners:{Q13114;P09914}  
6515 Pathogen[ P03363] interacts with 3 human partners:{P09914;Q13114;Q9UII4}  
6516 [Cluster 593]GO:0006473+P biological\_process [name] protein acetylation [def] "The addition of an acetyl group to a protein amino acid. An acetyl group is CH3CO-, derived from acetic [ethanoic] acid." [GOC  
6517 Pathogen[ Q2Q067] interacts with 6 human

6518 partners:{Q8WYH8;Q92985;Q9UNL4;O60356;Q92831;P10914}  
Pathogen[ P0C214] interacts with 6 human

6519 partners:{Q9UNL4;P10914;Q92985;O60356;Q92831;Q8WYH8}  
Pathogen[ P03346] interacts with 7 human

6520 partners:{Q9UNL4;Q8WYH8;Q92831;P10914;Q12778;O60356;Q92985}  
Pathogen[ Q85601] interacts with 6 human

6521 partners:{Q9UNL4;Q92831;P10914;Q92985;Q8WYH8;O60356}  
Pathogen[ P14079] interacts with 5 human

6522 partners:{Q92985;Q9UNL4;O60356;Q8WYH8;P10914}  
Pathogen[ P03383] interacts with 6 human

6523 partners:{P10914;Q92831;Q9UNL4;Q8WYH8;Q92985;O60356}  
Pathogen[ P03410] interacts with 6 human

6524 partners:{Q92831;Q8WYH8;Q9UNL4;P10914;O60356;Q92985}  
Pathogen[ P14075] interacts with 6 human

6525 partners:{Q92831;O60356;Q9UNL4;Q92985;Q8WYH8;P10914}  
Pathogen[ P0C206] interacts with 6 human

6526 partners:{P10914;Q8WYH8;Q92831;O60356;Q92985;Q9UNL4}  
Pathogen[ P03363] interacts with 6 human

6527 partners:{Q92985;O60356;Q92831;Q9UNL4;P10914;Q8WYH8}  
[Cluster 594]GO:0071285+P biological\_process [name] cellular response to lithium ion  
[def] "Any process that results in a change in state or activity of a cell (in terms of  
movement, secretion, enzyme production, gene expression, etc.) as a result of a lithium  
(Li+) ion stimulus." [GOC

6528 Pathogen[ Q2Q067] interacts with 6 human  
partners:{Q14934;P27797;Q13426;Q12968;P46527;P49715}

6529 Pathogen[ P0C214] interacts with 5 human  
partners:{P46527;Q12968;Q13426;Q14934;P27797}

6530 Pathogen[ P03346] interacts with 7 human  
partners:{Q13426;P15173;P49715;Q14934;Q12968;P27797;P46527}

6531 Pathogen[ Q85601] interacts with 6 human  
partners:{Q13426;P27797;Q14934;Q12968;P49715;P46527}

6532 Pathogen[ P14079] interacts with 6 human  
partners:{Q12968;P49715;Q14934;P46527;Q13426;P49917}

6533 Pathogen[ P03383] interacts with 5 human  
partners:{Q14934;P46527;Q13426;Q12968;P27797}

6534 Pathogen[ P03410] interacts with 5 human  
partners:{P46527;Q12968;Q13426;Q14934;P27797}

6535 Pathogen[ P14075] interacts with 5 human  
partners:{P46527;P27797;Q14934;Q13426;Q12968}

6536 Pathogen[ P0C206] interacts with 7 human  
partners:{P27797;P49715;Q12968;P49917;Q13426;P46527;Q14934}

6537 Pathogen[ P03363] interacts with 4 human partners:{Q13426;P27797;Q12968;Q14934}

6538 [Cluster 595]GO:0048704+P biological\_process [name] embryonic skeletal system  
morphogenesis [def] "The process in which the anatomical structures of the skeleton  
are generated and organized during the embryonic phase." [GOC

6539 Pathogen[ Q2Q067] interacts with 25 human  
partners:{O43365;O43364;Q99502;P04198;P09067;P31274;P31268;P13349;P17483;P28356;P352  
27;P09629;Q12959;P20719;Q15699;Q99750;Q00056;O00255;P35226;P14651;Q9UPW6;P09016;P146  
52;P14653;P54821}

6540 Pathogen[ P0C214] interacts with 15 human  
partners:{P35226;O43365;P35227;P31249;P13349;Q99750;P14651;P14653;Q12959;P09629;Q9UP  
W6;Q15699;O00255;P04198;Q99502}

6541 Pathogen[ P03346] interacts with 38 human  
partners:{Q9NPC8;P31249;P54821;P31268;Q99811;Q9UPW6;P13349;P35226;Q00056;Q9UIU6;P352  
27;P14652;Q99502;P14653;P17483;P31274;P20719;Q9BT04;O43364;O43365;Q15699;P28358;O002  
55;P17481;Q95076;P28356;Q99750;P09629;Q15475;P09016;P04198;P31267;P56915;P09067;P175  
09;P14651;Q12959;Q96SF7}

6542 Pathogen[ Q85601] interacts with 18 human  
partners:{P09629;Q9UPW6;P13349;P14653;O43364;Q15699;Q99502;Q99750;O00255;P31249;Q129  
59;P31274;P35226;P14651;O43365;P04198;Q9BT04;P35227}

6543 Pathogen[ P14079] interacts with 16 human  
partners:{Q9UPW6;O43364;Q99502;P13349;Q15699;P09629;P31274;P04198;P31249;O43365;P352  
26;P35227;O00255;P14651;Q99750;Q9BT04}

6544 Pathogen[ P03383] interacts with 12 human  
partners:{P35227;Q9UPW6;O43365;P31249;O00255;P04198;Q99750;P09629;Q15699;Q9BT04;P352  
26;P14651}

6545 Pathogen[ P03410] interacts with 17 human  
partners:{P31274;Q99502;P09629;Q12959;P14651;P31249;Q9UPW6;P35227;Q9BT04;O43364;Q156  
99;P13349;P35226;O00255;P04198;Q99750;O43365}

6546 Pathogen[ P14075] interacts with 12 human  
partners:{P31249;Q9BT04;P04198;O43365;O00255;P09629;Q9UPW6;Q99750;Q15699;P35226;Q995  
02;P35227}

6547 Pathogen[ P0C206] interacts with 26 human  
partners:{O43365;P09067;Q9BT04;P54821;P35226;O00255;P14651;P31268;P17483;Q15699;P146  
53;P14652;P13349;Q9UPW6;P04198;Q99502;O43364;P31274;P09629;P28356;P20719;P31249;P090  
16;Q12959;Q99750;P35227}

6548 Pathogen[ P03363] interacts with 33 human partners: {Q12959;Q15699;P09067;P31274;P35227;P31267;O43365;P14651;P28356;Q99750;P20719;P04198;P17481;P17483;P13349;P17509;P31249;P14653;P28358;P56915;P35226;P14652;P31268;Q00056;Q9BT04;P54821;P09016;O95076;P09629;O43364;Q99811;Q9UPW6;Q9NPC8}

6549 [Cluster 596]GO:0003009+P biological\_process [name] skeletal muscle contraction [def] "A process in which force is generated within skeletal muscle tissue, resulting in a change in muscle geometry. Force generation involves a chemo-mechanical energy conversion step that is carried out by the actin/myosin complex activity, which generates force through ATP hydrolysis. In the skeletal muscle, the muscle contraction takes advantage of an ordered sarcomeric structure and in most cases it is under voluntary control." [GOC

6550 Pathogen[ Q2Q067] interacts with 3 human partners: {P48788;A2IDD5;O14920}

6551 Pathogen[ POC214] interacts with 3 human partners: {P48788;A2IDD5;O14920}

6552 Pathogen[ P03346] interacts with 3 human partners: {A2IDD5;O14920;P48788}

6553 Pathogen[ Q85601] interacts with 3 human partners: {P48788;O14920;A2IDD5}

6554 Pathogen[ P14079] interacts with 5 human partners: {P13805;P48788;A2IDD5;O15273;Q6JBY9}

6555 Pathogen[ P03383] interacts with 3 human partners: {O14920;P48788;A2IDD5}

6556 Pathogen[ P03410] interacts with 6 human partners: {O14920;O15273;A2IDD5;P48788;P13805;Q6JBY9}

6557 Pathogen[ P14075] interacts with 4 human partners: {Q6JBY9;O14920;A2IDD5;P48788}

6558 Pathogen[ POC206] interacts with 4 human partners: {Q6JBY9;O14920;A2IDD5;P48788}

6559 Pathogen[ P03363] interacts with 3 human partners: {A2IDD5;O14920;P48788}

6560 [Cluster 597]GO:0009948+P biological\_process [name] anterior/posterior axis specification [def] "The establishment, maintenance and elaboration of the anterior/posterior axis. The anterior-posterior axis is defined by a line that runs from the head or mouth of an organism to the tail or opposite end of the organism." [GOC

6561 Pathogen[ Q2Q067] interacts with 4 human partners: {P12755;Q99496;Q9Y5J3;Q86U70}

6562 Pathogen[ POC214] interacts with 4 human partners: {Q9Y5J3;Q86U70;P12755;Q99496}

6563 Pathogen[ P03346] interacts with 3 human partners: {Q86U70;Q9Y5J3;Q99496}

6564 Pathogen[ Q85601] interacts with 4 human partners: {Q86U70;P12755;Q99496;Q9Y5J3}

6565 Pathogen[ P14079] interacts with 4 human partners: {P12755;Q86U70;Q99496;Q9Y5J3}

6566 Pathogen[ P03383] interacts with 2 human partners: {Q86U70;Q99496}

6567 Pathogen[ P03410] interacts with 4 human partners: {Q9Y5J3;Q99496;P12755;Q86U70}

6568 Pathogen[ P14075] interacts with 2 human partners: {Q86U70;Q99496}

6569 Pathogen[ POC206] interacts with 4 human partners: {P12755;Q9Y5J3;Q86U70;Q99496}

6570 Pathogen[ P03363] interacts with 3 human partners: {Q86U70;Q9Y5J3;Q99496}

6571 [Cluster 598]GO:0032757+P biological\_process [name] positive regulation of interleukin-8 production [def] "Any process that activates or increases the frequency, rate, or extent of interleukin-8 production." [GOC

6572 Pathogen[ Q2Q067] interacts with 2 human partners: {P35638;Q13158}

6573 Pathogen[ POC214] interacts with 3 human partners: {Q13158;P05121;P35638}

6574 Pathogen[ P03346] interacts with 2 human partners: {P35638;Q13158}

6575 Pathogen[ Q85601] interacts with 3 human partners: {Q13158;P05121;P35638}

6576 Pathogen[ P14079] interacts with 3 human partners: {Q7Z434;P35638;Q13158}

6577 Pathogen[ P03383] interacts with 2 human partners: {P35638;Q13158}

6578 Pathogen[ P03410] interacts with 4 human partners: {P05121;P35638;Q7Z434;Q13158}

6579 Pathogen[ P14075] interacts with 2 human partners: {P35638;Q13158}

6580 Pathogen[ POC206] interacts with 3 human partners: {Q13158;P05121;P35638}

6581 Pathogen[ P03363] interacts with 2 human partners: {Q13158;P35638}

6582 [Cluster 599]GO:0045064+P biological\_process [name] T-helper 2 cell differentiation [def] "The process in which a relatively unspecialized T cell acquires specialized features of a T-helper 2 (Th2) cell. A Th2 cell is a CD4-positive, alpha-beta T cell that has the phenotype GATA-3-positive and produces interleukin-4." [CL

6583 Pathogen[ Q2Q067] interacts with 1 human partners: {P20749}

6584 Pathogen[ POC214] interacts with 1 human partners: {P20749}

6585 Pathogen[ P03346] interacts with 1 human partners: {P20749}

6586 Pathogen[ Q85601] interacts with 1 human partners: {P20749}

6587 Pathogen[ P14079] interacts with 1 human partners: {P20749}

6588 Pathogen[ P03383] interacts with 1 human partners: {P20749}

6589 Pathogen[ P03410] interacts with 1 human partners: {P20749}

6590 Pathogen[ P14075] interacts with 1 human partners: {P20749}

6591 Pathogen[ POC206] interacts with 1 human partners: {P20749}

6592 Pathogen[ P03363] interacts with 1 human partners: {P20749}

6593 [Cluster 600]GO:0060056+P biological\_process [name] mammary gland involution [def] "The tissue remodeling that removes differentiated mammary epithelia during weaning." [GOC

6594 Pathogen[ Q2Q067] interacts with 2 human partners: {P78545;Q3C1V8}

6595 Pathogen[ POC214] interacts with 2 human partners: {P78545;Q3C1V8}

6596 Pathogen[ P03346] interacts with 2 human partners: {Q3C1V8;P78545}

6597 Pathogen[ Q85601] interacts with 2 human partners: {P78545;Q3C1V8}

6598 Pathogen[ P14079] interacts with 2 human partners: {Q3C1V8;P78545}

6599 Pathogen[ P03383] interacts with 2 human partners: {P78545;Q3C1V8}

6600 Pathogen[ P03410] interacts with 2 human partners: {P78545;Q3C1V8}

6601 Pathogen[ P14075] interacts with 2 human partners: {P78545;Q3C1V8}

6602 Pathogen[ POC206] interacts with 2 human partners: {Q3C1V8;P78545}

6603 Pathogen[ P03363] interacts with 2 human partners:{Q3C1V8;P78545}

6604 [Cluster 601]GO:0043086+P biological\_process [name] negative regulation of catalytic activity [def] "Any process that stops or reduces the activity of an enzyme." [GOC

6605 Pathogen[ Q2Q067] interacts with 12 human partners:{O14974;Q8N5D0;Q86VP6;Q9UMX2;Q9NZL4;P15559;Q9NZU7;O96018;Q9H3M7;O95190;Q8N163;Q9Y314}

6606 Pathogen[ P0C214] interacts with 15 human partners:{Q9NZL4;Q8N163;Q8N5D0;Q9H3M7;O96018;P54368;O14974;P18545;Q9UMX2;Q9NZU7;Q13956;O95190;P15559;Q86VP6;Q9Y314}

6607 Pathogen[ P03346] interacts with 13 human partners:{Q8N163;Q9NZL4;Q9NZU7;Q9UMX2;P15559;Q8N5D0;O96018;Q86VP6;P61925;O14974;Q9H3M7;O95190;Q9Y314}

6608 Pathogen[ Q85601] interacts with 11 human partners:{Q9NZU7;Q86VP6;Q9UMX2;O95190;O96018;Q8N163;O14974;Q9NZL4;Q9H3M7;Q8N5D0;Q9Y314}

6609 Pathogen[ P14079] interacts with 23 human partners:{Q8N5D0;Q8N163;P05408;Q9Y314;Q9UMX2;O14974;O95190;P15559;P18545;P54368;Q13956;O96018;P48681;O60256;P05814;P13232;Q9H3M7;Q14558;Q86VP6;Q9BS40;Q9NZL4;Q9NZU7;P61925}

6610 Pathogen[ P03383] interacts with 8 human partners:{O96018;Q8N163;O95190;Q86VP6;Q9NZL4;Q9H3M7;Q8N5D0;Q9Y314}

6611 Pathogen[ P03410] interacts with 22 human partners:{P15559;O96018;P61925;Q13956;Q9H3M7;O95190;Q9BS40;Q8N163;P18545;Q14558;P05408;O14974;Q86VP6;Q8N5D0;Q9NZU7;O60256;P54368;Q9NZL4;Q9Y314;Q9UMX2;P05814;P13232}

6612 Pathogen[ P14075] interacts with 9 human partners:{O96018;Q8N5D0;P15559;Q8N163;Q86VP6;Q9H3M7;Q9NZL4;O95190;Q9Y314}

6613 Pathogen[ P0C206] interacts with 16 human partners:{P18545;P15559;Q9NZU7;O14974;P54368;O96018;O95190;Q9NZL4;Q13956;Q9H3M7;Q8N5D0;P61925;Q86VP6;Q8N163;Q9Y314;Q9UMX2}

6614 Pathogen[ P03363] interacts with 12 human partners:{Q8N5D0;Q9NZL4;Q9H3M7;P61925;Q9NZU7;Q8N163;O14974;Q9UMX2;Q86VP6;O96018;O95190;Q9Y314}

6615 [Cluster 602]GO:0071922+P biological\_process [name] regulation of cohesin localization to chromatin [def] "Any process that modulates the frequency, rate or extent of a process in which a cohesin complex is transported to, or maintained at, a part of a chromosome that is organized into chromatin." [GOC

6616 Pathogen[ Q2Q067] interacts with 3 human partners:{P06400;Q7Z5K2;Q96FF9}

6617 Pathogen[ P0C214] interacts with 3 human partners:{Q96FF9;Q7Z5K2;P06400}

6618 Pathogen[ P03346] interacts with 3 human partners:{Q96FF9;Q7Z5K2;P06400}

6619 Pathogen[ Q85601] interacts with 3 human partners:{P06400;Q7Z5K2;Q96FF9}

6620 Pathogen[ P14079] interacts with 2 human partners:{Q96FF9;Q7Z5K2}

6621 Pathogen[ P03383] interacts with 3 human partners:{P06400;Q96FF9;Q7Z5K2}

6622 Pathogen[ P03410] interacts with 3 human partners:{Q7Z5K2;P06400;Q96FF9}

6623 Pathogen[ P14075] interacts with 3 human partners:{Q96FF9;Q7Z5K2;P06400}

6624 Pathogen[ P0C206] interacts with 3 human partners:{Q7Z5K2;Q96FF9;P06400}

6625 Pathogen[ P03363] interacts with 3 human partners:{P06400;Q96FF9;Q7Z5K2}

6626 [Cluster 603]GO:0006363+P biological\_process [name] termination of RNA polymerase I transcription [def] "The process in which the synthesis of an RNA molecule by RNA polymerase I using a DNA template is completed. RNAP I termination requires binding of a terminator protein so specific sequences downstream of the transcription unit." [GOC

6627 Pathogen[ Q2Q067] interacts with 19 human partners:{O95602;Q15573;P52434;Q13889;P32780;Q6NZI2;Q92759;Q9H9Y6;P51948;P50613;Q15572;P53803;Q53T94;P17480;Q15361;Q9Y2S0;Q13888;O15160;P51946}

6628 Pathogen[ P0C214] interacts with 18 human partners:{P51946;Q15573;Q9H9Y6;P53803;Q15361;P50613;Q9Y2S0;Q6NZI2;P51948;Q15572;P17480;P32780;O15160;O95602;Q13888;P52434;Q53T94;Q92759}

6629 Pathogen[ P03346] interacts with 18 human partners:{P52434;Q15573;Q13888;P53803;Q9H9Y6;Q6NZI2;Q53T94;Q13889;P17480;Q15361;P51946;O15160;Q92759;O95602;P51948;P32780;Q9Y2S0;Q15572}

6630 Pathogen[ Q85601] interacts with 19 human partners:{P51946;P17480;O95602;Q13888;Q15573;P53803;Q9Y2S0;P51948;Q9H9Y6;Q15572;Q53T94;Q92759;P32780;P50613;Q6NZI2;P52434;Q15361;P19447;O15160}

6631 Pathogen[ P14079] interacts with 20 human partners:{Q9Y2S0;Q15573;P51946;P52434;Q13889;P53803;Q15572;P50613;Q13888;P17480;O15160;Q92759;P32780;Q6NZI2;O95602;Q15361;Q53T94;P19447;Q9H9Y6;P51948}

6632 Pathogen[ P03383] interacts with 16 human partners:{P53803;O95602;P51948;Q15572;Q6NZI2;Q13888;Q9H9Y6;P52434;Q15361;P50613;P51946;Q92759;Q15573;P17480;P32780;Q53T94}

6633 Pathogen[ P03410] interacts with 20 human partners:{Q6NZI2;Q15572;Q13889;P51946;P50613;Q15573;O95602;P53803;P19447;Q9Y2S0;P51948;O15160;Q13888;P52434;Q53T94;Q15361;P32780;Q92759;Q9H9Y6;P17480}

6634 Pathogen[ P14075] interacts with 17 human partners:{P17480;Q15572;Q92759;Q53T94;P50613;Q6NZI2;Q13889;Q15573;Q9H9Y6;P51946;P32780;O95602;Q15361;P52434;P51948;P53803;Q13888}

6635 Pathogen[ P0C206] interacts with 20 human partners:{Q53T94;Q15361;O95602;Q15572;P19447;P53803;Q13888;P50613;Q9Y2S0;Q6NZI2;Q927

59;Q15573;P32780;Q13889;Q9H9Y6;P17480;P52434;O15160;P51946;P51948}

6636 Pathogen[ P03363] interacts with 16 human  
partners:{Q9H9Y6;Q13888;P32780;Q92759;P51946;O95602;Q53T94;P17480;Q6NZI2;Q15361;Q15573;P53803;Q15572;P52434;Q9Y2S0;O15160}

6637 [Cluster 604]GO:0009966+P biological\_process [name] regulation of signal transduction [def] "Any process that modulates the frequency, rate or extent of signal transduction." [GOC]

6638 Pathogen[ Q2Q067] interacts with 10 human  
partners:{Q01196;P61981;P41236;Q6NXS1;O14508;P37198;P78318;Q9NRR3;Q7Z699;Q9H2G4}

6639 Pathogen[ P0C214] interacts with 10 human  
partners:{Q9NRR3;Q96PQ5;Q6NXS1;P78318;Q7Z699;P41236;P37198;O14508;Q9H2G4;P61981}

6640 Pathogen[ P03346] interacts with 11 human  
partners:{Q9NRR3;Q9NS18;Q9H2G4;P37198;O14508;Q6NXS1;P61981;Q01196;Q7Z699;P41236;P78318}

6641 Pathogen[ Q85601] interacts with 9 human  
partners:{P61981;O14508;Q9NRR3;P41236;Q6NXS1;Q9H2G4;Q7Z699;Q96PQ5;P78318}

6642 Pathogen[ P14079] interacts with 12 human  
partners:{Q9NRR3;O14990;O43597;P41236;P61981;Q7Z699;Q9H2G4;Q6NXS1;P37198;O14508;P78318;Q96PQ5}

6643 Pathogen[ P03383] interacts with 8 human  
partners:{O14990;Q9NRR3;Q6NXS1;Q9H2G4;P61981;P78318;P37198;P41236}

6644 Pathogen[ P03410] interacts with 11 human  
partners:{O43597;Q7Z699;P78318;Q9NRR3;P41236;P61981;O14508;O14990;Q96PQ5;Q6NXS1;Q9H2G4}

6645 Pathogen[ P14075] interacts with 8 human  
partners:{P41236;Q6NXS1;Q9H2G4;P61981;P37198;P78318;Q9NRR3;O14990}

6646 Pathogen[ P0C206] interacts with 12 human  
partners:{Q6NXS1;Q9NS18;P78318;P41236;Q9NRR3;O14508;P61981;Q9H2G4;O43597;Q96PQ5;Q7Z699;O14990}

6647 Pathogen[ P03363] interacts with 10 human  
partners:{P41236;Q6NXS1;Q7Z699;Q9H2G4;P78318;P61981;Q9NRR3;Q9C004;O14508;P37198}

6648 [Cluster 605]GO:0006665+P biological\_process [name] sphingolipid metabolic process [def] "The chemical reactions and pathways involving sphingolipids, any of a class of lipids containing the long-chain amine diol sphingosine or a closely related base (a sphingoid)." [GOC]

6649 Pathogen[ Q2Q067] interacts with 2 human partners:{Q96G23;Q8WWR8}

6650 Pathogen[ P0C214] interacts with 6 human  
partners:{Q8WWR8;Q9HA82;Q9H227;Q9Y3R4;Q96G23;P16278}

6651 Pathogen[ P03346] interacts with 3 human partners:{P16278;Q96G23;Q8WWR8}

6652 Pathogen[ Q85601] interacts with 1 human partners:{Q96G23}

6653 Pathogen[ P14079] interacts with 17 human  
partners:{Q9NY59;P16278;Q9NXE4;Q9HA82;Q9NRX5;P06280;P27544;Q8NFR3;P54803;Q96G23;Q13510;Q95292;Q969W0;Q8NBK3;Q8WWR8;Q9Y3R4;P17405}

6654 Pathogen[ P03383] interacts with 1 human partners:{Q8WWR8}

6655 Pathogen[ P03410] interacts with 14 human  
partners:{P54803;Q95292;P16278;P27544;Q9NXE4;Q96G23;Q13510;Q9NRX5;Q9HA82;Q969W0;Q9Y3R4;P17405;Q8WWR8;Q8NFR3}

6656 Pathogen[ P14075] interacts with 3 human partners:{Q8WWR8;Q13510;Q969W0}

6657 Pathogen[ P0C206] interacts with 8 human  
partners:{Q96G23;Q8NFR3;Q95292;Q9Y3R4;Q9HA82;Q969W0;Q8WWR8;P16278}

6658 Pathogen[ P03363] interacts with 1 human partners:{Q96G23}

6659 [Cluster 606]GO:0045604+P biological\_process [name] regulation of epidermal cell differentiation [def] "Any process that modulates the frequency, rate or extent of epidermal cell differentiation." [GOC]

6660 Pathogen[ Q2Q067] interacts with 3 human partners:{O15525;Q9ULX9;Q14145}

6661 Pathogen[ P0C214] interacts with 3 human partners:{Q14145;Q9ULX9;O15525}

6662 Pathogen[ P03346] interacts with 3 human partners:{Q9ULX9;O15525;Q14145}

6663 Pathogen[ Q85601] interacts with 3 human partners:{O15525;Q14145;Q9ULX9}

6664 Pathogen[ P14079] interacts with 3 human partners:{Q14145;Q9ULX9;O15525}

6665 Pathogen[ P03383] interacts with 3 human partners:{O15525;Q14145;Q9ULX9}

6666 Pathogen[ P03410] interacts with 3 human partners:{O15525;Q9ULX9;Q14145}

6667 Pathogen[ P14075] interacts with 3 human partners:{Q9ULX9;O15525;Q14145}

6668 Pathogen[ P0C206] interacts with 3 human partners:{O15525;Q14145;Q9ULX9}

6669 Pathogen[ P03363] interacts with 3 human partners:{Q14145;O15525;Q9ULX9}

6670 [Cluster 607]GO:0060373+P biological\_process [name] regulation of ventricular cardiomyocyte membrane depolarization [def] "Any process that modulates the establishment or extent of a membrane potential in the depolarizing direction away from the resting potential in a ventricular cardiomyocyte." [GOC]

6671 Pathogen[ Q2Q067] interacts with 1 human partners:{O15105}

6672 Pathogen[ P0C214] interacts with 1 human partners:{O15105}

6673 Pathogen[ P03346] interacts with 1 human partners:{O15105}

6674 Pathogen[ Q85601] interacts with 1 human partners:{O15105}

6675 Pathogen[ P14079] interacts with 1 human partners:{O15105}

6676 Pathogen[ P03383] interacts with 1 human partners:{O15105}

6677 Pathogen[ P03410] interacts with 1 human partners:{O15105}

6678 Pathogen[ P14075] interacts with 1 human partners:{O15105}

6679 Pathogen[ POC206] interacts with 1 human partners:{015105}

6680 Pathogen[ P03363] interacts with 1 human partners:{015105}

6681 [Cluster 608]GO:0051382+P biological\_process [name] kinetochore assembly [def] "The aggregation, arrangement and bonding together of a set of components to form the kinetochore, a multisubunit complex that is located at the centromeric region of DNA and provides an attachment point for the spindle microtubules." [GOC

6682 Pathogen[ Q2Q067] interacts with 7 human partners:{P49454;Q5EE01;P49450;Q03188;Q96BT3;Q7Z3K3;Q9H081}

6683 Pathogen[ POC214] interacts with 7 human partners:{Q9H081;Q7Z3K3;Q96BT3;Q5EE01;P49450;Q03188;P49454}

6684 Pathogen[ P03346] interacts with 7 human partners:{Q7Z3K3;Q5EE01;Q9H081;Q03188;P49450;Q96BT3;P49454}

6685 Pathogen[ Q85601] interacts with 7 human partners:{P49454;Q03188;Q9H081;Q96BT3;Q5EE01;Q7Z3K3;P49450}

6686 Pathogen[ P14079] interacts with 7 human partners:{Q03188;Q5EE01;Q96BT3;Q7Z3K3;P49450;P49454;Q9H081}

6687 Pathogen[ P03383] interacts with 6 human partners:{Q03188;P49454;Q5EE01;Q96BT3;Q7Z3K3;Q9H081}

6688 Pathogen[ P03410] interacts with 7 human partners:{Q03188;Q96BT3;Q5EE01;P49454;P49450;Q7Z3K3;Q9H081}

6689 Pathogen[ P14075] interacts with 6 human partners:{Q9H081;Q5EE01;Q96BT3;Q03188;Q7Z3K3;P49454}

6690 Pathogen[ POC206] interacts with 7 human partners:{Q9H081;P49454;Q5EE01;P49450;Q96BT3;Q7Z3K3;Q03188}

6691 Pathogen[ P03363] interacts with 7 human partners:{P49454;Q9H081;Q5EE01;P49450;Q03188;Q7Z3K3;Q96BT3}

6692 [Cluster 609]GO:0043985+P biological\_process [name] histone H4-R3 methylation [def] "The modification of histone H4 by addition of a methyl group to arginine at position 3 of the histone." [GOC

6693 Pathogen[ Q2Q067] interacts with 5 human partners:{O14744;Q9NVM4;Q96LA8;Q99873;Q9NQ92}

6694 Pathogen[ POC214] interacts with 4 human partners:{Q9NVM4;Q99873;Q9NQ92;Q96LA8}

6695 Pathogen[ P03346] interacts with 5 human partners:{Q9NQ92;Q99873;O14744;Q9NVM4;Q96LA8}

6696 Pathogen[ Q85601] interacts with 5 human partners:{Q9NQ92;Q9NVM4;O14744;Q99873;Q96LA8}

6697 Pathogen[ P14079] interacts with 5 human partners:{Q96LA8;Q99873;Q9NVM4;O14744;Q9NQ92}

6698 Pathogen[ P03383] interacts with 4 human partners:{Q9NQ92;O14744;Q99873;Q96LA8}

6699 Pathogen[ P03410] interacts with 5 human partners:{Q96LA8;Q9NVM4;Q9NQ92;O14744;Q99873}

6700 Pathogen[ P14075] interacts with 4 human partners:{O14744;Q96LA8;Q99873;Q9NQ92}

6701 Pathogen[ POC206] interacts with 5 human partners:{Q99873;O14744;Q96LA8;Q9NVM4;Q9NQ92}

6702 Pathogen[ P03363] interacts with 5 human partners:{O14744;Q96LA8;Q9NVM4;Q9NQ92;Q99873}

6703 [Cluster 610]GO:0006506+P biological\_process [name] GPI anchor biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of a glycosylphosphatidylinositol (GPI) anchor that attaches some membrane proteins to the lipid bilayer of the cell membrane. The phosphatidylinositol group is linked via the C-6 hydroxyl residue of inositol to a carbohydrate chain which is itself linked to the protein via an ethanolamine phosphate group, its amino group forming an amide linkage with the C-terminal carboxyl of the protein. Some GPI anchors have variants on this canonical linkage." [GOC

6704 Pathogen[ Q2Q067] interacts with 2 human partners:{Q96I23;Q14442}

6705 Pathogen[ POC214] interacts with 1 human partners:{Q9UJH9}

6706 Pathogen[ P03346] interacts with 2 human partners:{Q14442;Q96I23}

6707 Pathogen[ Q85601] interacts with 1 human partners:{Q9UJH9}

6708 Pathogen[ P14079] interacts with 16 human partners:{O43292;Q14442;Q96S52;P57054;Q9BRB3;Q9Y2B2;O94777;Q969N2;Q9P2X0;Q9UJH9;Q9H20;Q9H490;Q8TBF5;Q96I23;Q3MUY2;Q96FM1}

6709 Pathogen[ P03383] interacts with 1 human partners:{Q96I23}

6710 Pathogen[ P03410] interacts with 11 human partners:{Q96FM1;Q9Y2B2;O94777;Q14442;Q96S52;Q9UJH9;Q96I23;Q9BRB3;Q969N2;Q9H490;Q9P2X0}

6711 Pathogen[ P14075] interacts with 4 human partners:{O94777;Q14442;Q96I23;Q9UJH9}

6712 Pathogen[ POC206] interacts with 5 human partners:{Q9UJH9;Q96I23;Q14442;O94777;Q9Y2B2}

6713 Pathogen[ P03363] interacts with 1 human partners:{Q96I23}

6714 [Cluster 611]GO:0032929+P biological\_process [name] negative regulation of superoxide anion generation [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of enzymatic generation of superoxide by a cell." [GOC

6715 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NY61}

6716 Pathogen[ POC214] interacts with 1 human partners:{Q9NY61}

6717 Pathogen[ P03346] interacts with 1 human partners:{Q9NY61}

6718 Pathogen[ Q85601] interacts with 1 human partners:{Q9NY61}

6719 Pathogen[ P14079] interacts with 1 human partners:{Q9NY61}  
6720 Pathogen[ P03383] interacts with 1 human partners:{Q9NY61}  
6721 Pathogen[ P03410] interacts with 1 human partners:{Q9NY61}  
6722 Pathogen[ P14075] interacts with 1 human partners:{Q9NY61}  
6723 Pathogen[ P0C206] interacts with 1 human partners:{Q9NY61}  
6724 Pathogen[ P03363] interacts with 1 human partners:{Q9NY61}  
6725 [Cluster 612]GO:0045087+P biological\_process [name] innate immune response [def]  
"Innate immune responses are defense responses mediated by germline encoded components  
that directly recognize components of potential pathogens." [GO\_REF  
6726 Pathogen[ Q2Q067] interacts with 84 human  
partners:{P01100;Q96J02;Q14258;Q8WUQ7;Q9Y6K5;Q8IUC6;Q9UII4;P55265;Q9BRV8;Q16666;P099  
13;Q9UDY8;Q92985;Q15653;Q04206;Q12933;Q9NYJ8;P08238;O95999;Q9H171;Q13158;Q53H80;Q147  
90;P61077;Q7Z2W4;Q8N5C8;Q8WXC3;Q9BUI4;O75582;Q14653;P10914;O14933;O14862;Q9Y6K9;Q131  
14;Q13233;A7MCY6;Q9BQ95;P61088;P10599;Q9NVU0;Q15366;P09914;Q96FA3;P19419;P19838;O153  
18;Q86VP1;P15336;Q13526;P25963;P0CG47;O14920;Q9C000;Q9BYX4;P45984;Q00653;P0CG48;O433  
18;Q92844;Q92793;O94817;Q86WI3;P62987;Q13404;Q9HAT8;Q9Y535;Q13568;Q9H3M7;O15111;P054  
23;Q9Y2Z0;Q9HC16;O14802;Q15759;Q16829;Q9H1D9;Q9H1Y0;Q02078;O14879;Q15750;Q8IUD6;P146  
25;P62979}  
6727 Pathogen[ P0C214] interacts with 95 human  
partners:{O14933;Q96J02;Q00653;P14625;O15111;Q9NPP4;Q9Y6K9;P09914;P09913;P19838;Q9BR  
V8;P15336;Q9BUI4;Q13568;Q8IUC6;O14879;Q9NVU0;Q14164;Q9H3M7;Q9H171;Q13158;Q9UDY8;P011  
00;Q86WI3;P55265;Q9Y6K5;Q13526;Q92793;Q96FA3;P19419;P29728;Q9H1D9;Q8IUD6;Q04206;Q53H  
80;Q9HAT8;Q13404;P10914;Q16666;Q9BYX4;Q15653;O43318;Q15366;P05423;Q8WXC3;Q9Y3Z3;Q7Z2  
W4;P61077;A7MCY6;Q02078;Q8N5C8;Q14258;Q9HC16;Q13233;Q92844;Q92985;Q9Y2Z0;P0CG48;Q86V  
P1;O95999;Q12933;O94817;Q9UII4;Q8WXC3;Q9H0E2;O15318;P25963;Q16829;Q9NW08;Q14653;O755  
82;P62987;Q15750;P05412;Q9H1Y0;Q9Y535;Q13114;P10909;Q15759;Q6P589;P0CG47;P10599;Q9BQ  
95;P45984;Q86WV6;O14862;P16220;P62979;O14920;O14802;Q9NYJ8;P61088;P18846;Q14790;Q9C0  
00}  
6728 Pathogen[ P03346] interacts with 92 human  
partners:{Q9NVU0;Q9Y3Z3;Q9Y6K9;Q96J02;P05412;P45984;Q02078;Q16666;O15111;Q15366;Q9Y2  
Z0;Q14258;P16220;A7MCY6;P55265;P15336;P14625;P62987;Q13158;P25963;Q9H171;Q15653;Q9UD  
Y8;Q9BRV8;Q8IUD6;P05423;P19419;P0CG48;Q9UII4;Q04206;Q53H80;Q13526;Q13114;Q9H0E2;P610  
77;Q96FA3;Q13404;O95999;Q8N5C8;P61088;Q8WXC3;O15318;Q9NPP4;Q86UT6;Q15646;P10914;Q9NY  
J8;Q86WI3;Q9H1D9;O14879;Q9HAT8;Q9Y535;Q13233;O75582;Q15750;Q9BUI4;Q14653;Q16829;Q135  
68;P62979;Q9BYX4;Q8IUC6;Q14790;Q15759;P0CG47;P45985;O14933;P10599;Q9H1Y0;P19838;P099  
13;Q14920;O43318;Q92793;Q92985;P09914;O94817;Q8WUQ7;O14862;P08238;P01100;Q9H3M7;O148  
02;Q14164;Q86VP1;Q9Y6K5;Q9BQ95;Q92844;P18846;Q00653;Q7Z2W4;Q9C000}  
6729 Pathogen[ Q85601] interacts with 90 human  
partners:{Q96J02;Q86WV6;Q02078;Q16666;P09913;Q86VP1;O14933;Q15750;Q14258;Q9H1D9;Q9NY  
J8;Q9Y2Z0;Q8IUC6;O14879;Q13158;O15111;Q9Y535;Q9BUI4;Q9UDY8;Q9BQ95;Q9HC16;Q9Y2Y1;Q147  
90;P19419;Q9HAT8;Q92844;Q16829;Q7Z2W4;P18846;Q86WI3;P0CG48;Q8IUD6;Q15653;P05423;Q131  
14;Q9NVU0;P61077;O94817;Q96FA3;Q13404;P10914;Q8N5C8;P01100;Q53H80;P10599;Q14653;Q141  
64;Q9Y6K9;Q9Y6K5;Q9H171;Q12933;Q13526;Q9NQC7;P16220;Q9H1Y0;O14920;Q04206;Q8WXC3;P082  
38;A7MCY6;Q9BYX4;O14862;P05412;Q92985;O75582;P62979;P55265;Q9NW08;P09914;Q15759;P0CG  
47;P45984;P14625;Q13233;P62987;Q00653;O95999;P15336;O43318;Q92793;P61088;Q6P589;P198  
38;Q13568;Q9H3M7;O14802;O15318;Q9BRV8;Q15366;P25963}  
6730 Pathogen[ P14079] interacts with 110 human  
partners:{Q92844;P13164;Q9BQ95;Q9HAT8;Q53H80;Q8WXC3;Q8N5C8;Q02078;P0CG48;Q06413;Q9BY  
X4;P29728;O43187;P53779;Q14653;O15553;P09914;O95999;Q7Z2W4;Q9BT09;P52564;Q9NW08;P319  
41;P13498;P39656;O75582;Q16829;Q8IUC6;Q92985;Q13404;Q92793;Q9H171;Q9C000;Q14164;Q9HC  
16;Q15750;P10909;P62979;P60022;Q8NEV9;Q14258;P61077;Q9H1Y0;P62987;Q96FA3;Q7Z434;P099  
13;P45984;P45983;Q13568;O15263;Q14790;Q9Y3Z3;Q16644;P55265;Q86WV6;Q9BUI4;P05423;Q157  
59;Q9Y6K9;P08238;Q9Y6K5;P45985;Q9H1M4;P15336;Q15366;Q9Y2Y1;A7MCY6;Q96J02;O14862;Q8WU  
Q7;P14625;Q12933;Q86UT6;Q13158;Q96AZ6;Q9NVU0;P10599;Q9Y6Y9;Q9H3M7;Q13164;O94817;Q9BR  
V8;Q86WI3;O14802;O15318;P05412;Q6P589;Q13526;Q9H0E2;Q9H1D9;P0CG47;Q9Y239;O14879;Q9Y2  
Z0;Q9NQC7;O14933;P01100;Q96C10;Q99836;Q9Y535;Q8IUD6;P10914;P19419;Q13114;Q16666;Q8WX  
G1;P81534;Q9NPP4;Q15653}  
6731 Pathogen[ P03383] interacts with 74 human  
partners:{O14879;P10914;O75582;Q14653;O14862;Q15366;O14933;P16220;Q9Y6K9;Q92844;P629  
87;Q8IUC6;Q13233;Q00653;O14920;O15111;Q9Y535;P19419;Q9BQ95;Q86VP1;P10599;P18846;Q156  
53;Q9H1Y0;Q13158;Q9H1D9;O43318;Q9NVU0;P61077;P09913;Q8N5C8;P61088;Q53H80;Q92985;Q129  
33;Q13568;Q13404;Q9H171;Q8WXC3;P14625;Q15759;Q16666;P25963;Q9Y6K5;O95999;Q8WUQ7;Q9BR  
V8;Q86WI3;P01100;P62979;P0CG47;Q96FA3;Q9H3M7;Q04206;P55265;O15318;P45984;P0CG48;O948  
17;Q14258;P15336;Q9NYJ8;P19838;P08238;Q13114;O14802;A7MCY6;Q92793;Q13526;Q02078;Q9HA  
T8;Q7Z2W4;Q15750;P05412}  
6732 Pathogen[ P03410] interacts with 107 human  
partners:{Q8WUQ7;Q04206;P19838;P10599;P0CG48;Q16666;O14920;Q9Y239;Q9H1Y0;Q9Y2Z0;P194  
19;P29728;P08238;O15111;Q9BT09;Q15750;Q96FA3;Q13526;O75582;O14862;Q14653;O43187;P146  
25;Q9BYX4;Q9H3M7;Q15653;Q9NPP4;Q15366;Q92844;Q9C000;P60022;P61088;Q13233;P55265;P629  
79;Q9H171;Q13568;O94817;Q14258;O15318;Q9Y535;P01100;P18846;Q86VP1;O14933;Q8WXC3;Q7Z4  
34;Q13158;Q86WI3;Q9HC16;O43318;Q16829;Q86UT6;Q92793;Q9NW08;O95999;P45985;Q9NYJ8;Q7Z2  
W4;Q96AZ6;Q8N5C8;P10914;Q8NEV9;P05423;Q12933;Q9H0E2;P16220;Q9HAT8;Q53H80;P05412;Q9Y2  
Y1;Q9Y6K5;Q9Y6Y9;P09913;Q9BQ95;P45984;P31941;Q96C10;P62987;P53779;Q8WXC3;Q02078;Q6P5  
89;Q8IUC6;Q9H1D9;Q86WV6;Q00653;Q9NVU0;Q13404;Q9Y6K9;P25963;Q9Y3Z3;Q92985;O14879;P396  
56;P15336;P09914;Q9BRV8;O14802;P0CG47;Q9BUI4;P81534;O15263;Q13114;P61077;A7MCY6;P109  
09}

- 6733 Pathogen[ P14075] interacts with 74 human partners: {Q9NVU0;Q15366;Q9BRV8;O15111;Q04206;Q15750;P09913;P55265;Q92844;P05412;Q86W13;Q15759;Q9H1Y0;O75582;P61088;P19419;Q53H80;O14933;P15336;Q15653;Q16666;P08238;P25963;P61077;Q8N5C8;Q13568;O14920;P0CG48;P62979;Q86VP1;Q14653;Q12933;Q13526;O14862;Q8WC3;Q9H1D9;O43318;Q9HAT8;Q9Y535;Q13158;Q96FA3;Q9Y6K5;P62987;Q13114;Q9H3M7;Q14258;O95999;Q9BQ95;Q02078;Q7Z2W4;Q8IUC6;O14879;P01100;O94817;P0CG47;Q92793;Q13404;P19838;Q00653;P16220;Q9Y6K9;Q92985;Q13233;P10914;Q8WUQ7;P14625;O14802;A7MCY6;Q9H171;O15318;P18846;P10599;P45984;Q9NYJ8}
- 6734 Pathogen[ POC206] interacts with 100 human partners: {A7MCY6;Q9NQC7;Q9C000;P10914;P0CG48;Q9Y2Z0;Q13568;O14920;P55265;Q92844;Q9Y6K9;Q13114;Q02078;Q13526;Q9UDY8;P16220;P39656;O14862;Q86W13;O14933;Q8N5C8;Q14258;O75582;Q86VP1;P45984;Q9Y6K5;O95999;P05412;P25963;Q9NW08;Q96J02;P19419;Q9HAT8;O14879;O43318;Q16666;P15336;P29728;Q15653;Q9BUI4;Q8IUD6;Q86WV6;P18846;Q13158;O15318;Q12933;Q16829;Q13233;Q8WUQ7;Q9Y535;Q6P589;Q92793;P05423;Q9NVU0;Q9H0E2;P61088;P19838;Q14164;P08238;Q9H1Y0;Q9H171;Q92985;P01100;Q04206;P09913;O15111;P62979;Q14790;P10909;Q9BRV8;Q9NYJ8;P31941;P45985;Q15366;P0CG47;Q8IUC6;O94817;Q96FA3;Q9H3M7;Q00653;Q9HC16;P61077;Q15750;P62987;Q9BYX4;Q13404;Q96C10;P10599;Q7Z2W4;O14802;Q9Y2Y1;Q8WXG1;Q53H80;Q15759;Q9H1D9;Q9BQ95;P14625;Q8WXC3;Q14653;P09914}
- 6735 Pathogen[ P03363] interacts with 75 human partners: {Q86VP1;Q14653;Q9Y6K5;Q9Y535;A7MCY6;Q15366;Q92985;O14920;Q04206;Q9BQ95;Q8IY21;Q9C000;O14933;P25963;P09914;Q14258;P09913;O15111;Q9NVU0;Q9NYJ8;Q7Z2W4;Q9H1D9;Q12933;Q13568;Q9H3M7;P16220;Q9BRV8;Q9Y6K9;P19419;O43318;Q13526;Q13158;O14879;Q15750;Q16666;P61088;P15336;Q15653;Q8WUQ7;Q16829;Q00653;Q96FA3;P05423;O15318;P18846;Q86W13;Q8WC3;Q9H0E2;P10914;P55265;P62987;Q9Y2Z0;Q9Y3Z3;P19838;Q92793;Q8IUD6;O14862;Q92844;Q9H171;Q94114;Q9BYX4;P05412;P61077;Q13404;Q9HAT8;Q9NPP4;Q8N5C8;Q53H80;P08238;Q13233;Q9UI4;O19817;Q9H1Y0;P01100;Q02078}
- 6736 [Cluster 613]GO:0042462+P biological\_process [name] eye photoreceptor cell development [def] "Development of a photoreceptor, a sensory cell in the eye that reacts to the presence of light. They usually contain a pigment that undergoes a chemical change when light is absorbed, thus stimulating a nerve." [GOC
- 6737 Pathogen[ Q2Q067] interacts with 1 human partners: {O15078}
- 6738 Pathogen[ POC214] interacts with 1 human partners: {O15078}
- 6739 Pathogen[ P03346] interacts with 2 human partners: {Q96KN7;O15078}
- 6740 Pathogen[ Q85601] interacts with 1 human partners: {O15078}
- 6741 Pathogen[ P14079] interacts with 2 human partners: {O15078;Q96KN7}
- 6742 Pathogen[ P03383] interacts with 1 human partners: {O15078}
- 6743 Pathogen[ P03410] interacts with 2 human partners: {Q96KN7;O15078}
- 6744 Pathogen[ P14075] interacts with 1 human partners: {O15078}
- 6745 Pathogen[ POC206] interacts with 2 human partners: {Q96KN7;O15078}
- 6746 Pathogen[ P03363] interacts with 2 human partners: {O15078;Q96KN7}
- 6747 [Cluster 614]GO:0006310+P biological\_process [name] DNA recombination [def] "Any process in which a new genotype is formed by reassortment of genes resulting in gene combinations different from those that were present in the parents. In eukaryotes genetic recombination can occur by chromosome assortment, intrachromosomal recombination, or nonreciprocal interchromosomal recombination. Intrachromosomal recombination occurs by crossing over. In bacteria it may occur by genetic transformation, conjugation, transduction, or F-duction." [ISBN
- 6748 Pathogen[ Q2Q067] interacts with 60 human partners: {Q9Y5K5;P25490;P0C1Z6;Q6NVH7;Q96SD1;Q15631;Q6ZW49;P55895;Q86UA6;Q8IY18;P27694;P49959;Q15233;Q96019;Q9C086;Q96B01;P35244;O95347;Q96EZ8;Q9H981;Q53TQ3;Q86YC2;P38935;O43542;Q06609;Q9H9Q4;Q8NBZ0;P27695;O43502;A4GXA9;Q9BQ83;P15927;Q8N140;Q06330;Q9UQ84;Q6P4R8;Q13426;P23246;P46100;P12956;O60216;Q9UBU8;P43351;Q14686;Q96MG7;Q96NY9;Q19AV6;Q9ULG1;Q96AY2;Q96PK6;Q96MF7;Q14683;Q9NP87;P13010;Q8IY92;O60870;Q6PI98;Q9NXX6;Q9H9F9;Q8NG50}
- 6749 Pathogen[ POC214] interacts with 60 human partners: {P43351;Q8IY18;Q9H9Q4;P27695;Q06609;Q9BQ83;P49959;Q9NXX6;P13010;Q9H9F9;Q53TQ3;Q9C086;Q96SD1;Q15233;Q96NY9;P23246;Q9ULG1;Q06330;Q14686;P38935;O95347;Q6ZW49;P0C1Z6;Q9Y5K5;Q92698;O60870;P55895;Q6PI98;Q13426;O43542;Q96AY2;P46100;Q96MF7;Q9UBU8;Q6P4R8;P15927;Q96MG7;O43502;Q6NVH7;P35244;Q96PK6;A4GXA9;Q96B01;Q86YC2;Q14683;Q15631;Q9UQ84;P27694;Q8IY92;Q86UA6;Q9NP87;Q19AV6;Q96EZ8;Q8NG50;O60216;O96019;P12956;Q8NBZ0;Q9H981;Q8N140}
- 6750 Pathogen[ P03346] interacts with 71 human partners: {Q06330;P46063;P38935;P12956;Q06609;Q96MF7;Q96SD1;Q9BWT6;P46100;O43502;P27694;Q96EZ8;Q9C086;P07992;Q9H9F9;P35244;Q9P2W1;Q9ULG1;P25490;Q13426;P55895;P23246;Q96MG7;P13010;O95347;Q8WV22;Q96AY2;Q6PI98;Q92698;P0C1Z6;Q96NY9;O60870;Q96019;Q8N140;Q15631;O15315;Q14683;Q9UBU8;P51587;Q96B01;O43542;Q8NG50;Q9H981;Q53TQ3;O75771;Q19AV6;P15927;Q86YC2;Q86UA6;P49959;Q8NBZ0;P43351;Q15233;Q9UQ84;Q9H9Q4;Q6NVH7;Q6P4R8;Q9BQ83;P27695;Q9NP87;Q8IY92;O43543;Q8IY18;Q9UBZ4;O60216;Q96PK6;A4GXA9;Q9Y5K5;Q6ZW49;Q9NXX6;Q14686}
- 6751 Pathogen[ Q85601] interacts with 65 human partners: {P43351;Q9UBZ4;O43502;O15315;Q96PK6;Q53TQ3;O95347;Q9UQ84;Q8IY18;Q19AV6;Q06330;P38935;Q9C086;Q9H9F9;P35244;Q86UA6;A4GXA9;Q13426;Q6NVH7;Q96MG7;Q9UBU8;P25490;Q96AY2;O96019;P49959;O60216;Q92698;P27694;O43542;P0C1Z6;Q96NY9;Q8NG50;Q14686;O60870;Q8NBZ0;Q6PI98;Q9H981;Q8N140;Q8IY92;P15927;Q14683;Q96SD1;Q6P4R8;Q96B01;Q9Y5K5;Q86YC2;Q9ULG1;Q6ZW49;Q15233;Q9BQ83;Q9NP87;P23246;Q96EZ8;Q9NXX6;Q8WV22;Q06609;P27695;P46100;P55895;P51587;Q15631;Q9H9Q4;P13010;P12956;Q96MF7}



- 6752 Pathogen[ P14079] interacts with 66 human partners: {O15315;Q9ULG1;Q96B01;Q96MF7;Q9UBU8;Q96NY9;Q9H9Q4;P13010;Q9UBZ4;Q9BWT6;Q8NG50;Q92698;P51587;O60216;P23246;Q8NBZ0;Q86YC2;O60870;Q96AY2;A4GXA9;Q6NVH7;P46100;Q6PI98;Q06330;Q9H981;Q15631;P12956;Q7Z4M0;Q9Y5K5;O95347;Q19AV6;P0C1Z6;Q6ZW49;Q86UA6;P27695;Q8N140;O43502;Q9NSU2;Q9NP87;Q6P4R8;O43543;P15927;Q96SD1;P27694;Q8IY18;P38935;Q96MG7;Q9BQ83;P25490;Q15233;P35244;Q06609;Q14683;Q53TQ3;Q96EZ8;Q9NXX6;Q13426;Q9UQ84;Q14686;Q96PK6;Q9H9F9;P07992;O43542;Q8IY92;P49917;P43351}
- 6753 Pathogen[ P03383] interacts with 51 human partners: {P43351;Q86UA6;Q14683;Q06330;Q06609;Q96019;P13010;Q9NXX6;Q6P4R8;Q9H981;Q6NVH7;Q19AV6;P27694;Q53TQ3;Q9C086;A4GXA9;Q14686;Q96B01;Q9H9Q4;O95347;Q9UBU8;Q6ZW49;Q15631;O60216;Q96MF7;Q6PI98;Q9H9F9;P46100;O60870;P15927;Q96PK6;Q13426;Q96AY2;Q8NBZ0;P35244;P55895;P0C1Z6;Q9Y5K5;Q8N140;Q8IY92;Q96MG7;Q86YC2;Q15233;O43542;P38935;P27695;P23246;Q96EZ8;Q9BQ83;P12956;Q96NY9}
- 6754 Pathogen[ P03410] interacts with 71 human partners: {P49959;Q9H981;P23246;P35244;Q96PK6;Q96AY2;Q6PI98;Q9BRV3;Q92698;Q15233;A4GX9;P07992;Q06330;O15315;Q96019;Q14686;O43542;Q19AV6;Q53TQ3;O60870;Q86UA6;Q9ULG1;Q8NG50;Q9UBU8;P55895;Q7Z4M0;Q6NVH7;Q9NSU2;Q96SD1;P43351;Q9BQ83;Q9NXX6;P0C1Z6;O60216;P25490;Q96MF7;Q96MG7;O95347;P12956;Q9UBZ4;Q9BWT6;P38935;Q8IY92;O43502;Q9H9F9;P51587;Q96NY9;Q6P4R8;Q14683;P46100;Q13426;P63135;Q96EZ8;P27695;Q8IY18;P13010;O43543;Q9Y5K5;Q8N140;Q15631;P27694;P15927;Q9NP87;Q9UQ84;Q96B01;Q9C086;Q86YC2;Q6ZW49;Q9H9Q4;Q06609;Q8NBZ0}
- 6755 Pathogen[ P14075] interacts with 51 human partners: {P43351;Q6P4R8;P23246;P12956;Q9BQ83;Q14683;Q9UBU8;P27695;Q8N140;Q9C086;Q86YC2;Q14686;P0C1Z6;Q6ZW49;P38935;Q96EZ8;P15927;O95347;O60870;Q9H9Q4;Q96019;P46100;P35244;Q8NBZ0;Q19AV6;Q15631;Q53TQ3;Q96PK6;Q6PI98;Q96NY9;O43542;Q13426;P27694;Q9NXX6;Q06330;Q15233;Q96B01;Q9H9F9;Q96AY2;Q86UA6;Q9H981;P13010;Q6NVH7;Q96MF7;P55895;O60216;Q8IY92;Q96MG7;Q06609;Q9Y5K5;A4GXA9}
- 6756 Pathogen[ P0C206] interacts with 71 human partners: {P27695;O43542;O43502;O60216;Q8N140;Q19AV6;P13010;Q96AY2;Q8WV22;P38935;Q06330;P49959;Q9UBU8;Q9UQ84;Q9NSU2;Q9H981;Q6ZW49;Q86YC2;P25490;P51587;Q15233;O60870;P46100;Q6PI98;Q15631;Q96MG7;Q96SD1;Q9UBZ4;Q8NBZ0;O94762;A4GXA9;Q9Y5K5;P07992;Q96EZ8;Q9C086;P23246;P43351;Q96019;P0C1Z6;Q96NY9;P49917;Q9H9Q4;O95347;Q9ULG1;Q13426;Q14683;O15315;Q96PK6;Q14686;P49916;P55895;Q96MF7;Q9NP87;Q9H9F9;O43543;Q06609;P27694;P15927;Q6NVH7;P35244;Q96B01;Q9BQ83;Q8IY18;P12956;Q8IY92;Q9NTJ3;Q6P4R8;Q8NG50;Q9NXX6;Q92698;Q53TQ3}
- 6757 Pathogen[ P03363] interacts with 63 human partners: {P12956;O94762;Q15233;P23246;P27694;Q9Y5K5;Q19AV6;Q9H981;Q9ULG1;Q8NG50;Q9NXX6;P13010;O95347;Q06330;P25490;Q8N140;Q15631;P35244;Q14686;P15927;Q96PK6;P46100;Q9C086;Q86UA6;Q9H9F9;Q9UBU8;Q13426;Q96019;P46063;P0C1Z6;O60870;Q9BQ83;Q96AY2;Q9H9Q4;Q96EZ8;Q9NP87;O43542;Q8IY92;P43351;O75771;Q8WV22;Q06609;Q6NVH7;P55895;Q96MG7;Q53TQ3;Q6ZW49;A4GXA9;Q96NY9;Q8IY18;Q96MF7;Q8NBZ0;Q9BWT6;Q14683;P38935;Q6P4R8;Q92698;Q96B01;Q86YC2;O60216;O43502;Q6PI98;O15315}
- 6758 [Cluster 615]GO:0050690+P biological\_process [name] regulation of defense response to virus by virus [def] "Any viral process that modulates the frequency, rate, or extent of the antiviral response of the host cell or organism." [GOC]
- 6759 Pathogen[ Q2Q067] interacts with 14 human partners: {O94973;Q9Y6Q5;Q10567;P56377;O43747;O95782;Q6VY07;P63010;Q96PC3;Q96CW1;P61966;Q9BXS5;P63000;Q92556}
- 6760 Pathogen[ P0C214] interacts with 16 human partners: {Q96CW1;P63000;Q9UI12;P63010;Q10567;P56377;Q6VY07;Q92556;Q96PC3;O43747;O94973;Q9Y6Q5;P61966;O95782;P53680;Q9BXS5}
- 6761 Pathogen[ P03346] interacts with 15 human partners: {P61966;P63010;O43747;P53680;P56377;Q9BXS5;O95782;Q10567;Q96CW1;Q96PC3;Q9Y6Q5;O94973;Q6VY07;Q92556;P63000}
- 6762 Pathogen[ Q85601] interacts with 14 human partners: {Q96CW1;Q9BXS5;P56377;P63000;O43747;Q10567;Q6VY07;P53680;O94973;Q96PC3;P63010;P61966;Q9Y6Q5;O95782}
- 6763 Pathogen[ P14079] interacts with 15 human partners: {Q6VY07;Q96CW1;Q9Y6Q5;P61966;Q9BXS5;Q92556;Q10567;P56377;O95782;P63010;O94973;O43747;Q9UI12;Q96PC3;P53680}
- 6764 Pathogen[ P03383] interacts with 10 human partners: {Q96CW1;P56377;Q10567;Q6VY07;P63000;P63010;O43747;O95782;Q9BXS5;O94973}
- 6765 Pathogen[ P03410] interacts with 17 human partners: {Q9Y6Q5;O95782;Q96PC3;Q96CW1;Q9BXS5;P53680;P20963;P63000;O43747;Q10567;Q92556;Q9UI12;P63010;P61966;Q6VY07;O94973;P56377}
- 6766 Pathogen[ P14075] interacts with 10 human partners: {O94973;Q96CW1;O95782;O43747;P63000;P63010;P56377;Q9BXS5;Q10567;Q6VY07}
- 6767 Pathogen[ P0C206] interacts with 16 human partners: {P53680;P63010;O94973;Q92556;Q9Y6Q5;O43747;Q10567;P61966;Q9BXS5;Q6VY07;P63000;Q9UI12;Q96CW1;O95782;Q96PC3;P56377}
- 6768 Pathogen[ P03363] interacts with 10 human partners: {O43747;P63000;Q9BXS5;O94973;Q6VY07;P63010;Q92556;O95782;Q10567;Q96CW1}
- 6769 [Cluster 616]GO:0015991+P biological\_process [name] ATP hydrolysis coupled proton transport [def] "The transport of protons against an electrochemical gradient, using energy from ATP hydrolysis." [GOC]
- 6770 Pathogen[ Q2Q067] interacts with 1 human partners: {P36543}

6771 Pathogen[ P0C214] interacts with 3 human partners:{Q16864;Q9UI12;P36543}

6772 Pathogen[ P03346] interacts with 4 human partners:{P21283;P36543;Q93050;Q16864}

6773 Pathogen[ Q85601] interacts with 2 human partners:{Q93050;P36543}

6774 Pathogen[ P14079] interacts with 7 human partners:{P36543;P25705;P61421;Q8N8Y2;Q93050;Q9UI12;Q16864}

6775 Pathogen[ P03383] interacts with 1 human partners:{P36543}

6776 Pathogen[ P03410] interacts with 7 human partners:{Q8N8Y2;P25705;P61421;Q93050;Q9UI12;Q16864;P36543}

6777 Pathogen[ P14075] interacts with 1 human partners:{P36543}

6778 Pathogen[ P0C206] interacts with 4 human partners:{P36543;Q9UI12;Q16864;Q93050}

6779 Pathogen[ P03363] interacts with 1 human partners:{P36543}

6780 [Cluster 617]GO:0016575+P biological\_process [name] histone deacetylation [def] "The modification of histones by removal of acetyl groups." [GOC

6781 Pathogen[ Q2Q067] interacts with 18 human partners:{Q8IXJ6;P56524;Q9BY41;Q9UKV0;Q13547;O94776;O15379;Q9NQX1;Q9UQL6;Q969S8;Q96DB2;Q92769;Q8WUI4;Q9UBU8;Q96PK6;Q9UIF9;Q9NSC2;P35232}

6782 Pathogen[ P0C214] interacts with 18 human partners:{Q13547;Q969S8;Q96DB2;P56524;Q9UIF9;O94776;Q92769;Q9UBU8;Q9UKV0;Q9NSC2;O15379;Q96PK6;Q9NQX1;Q8IXJ6;Q8WUI4;P35232;Q9UQL6;Q9BY41}

6783 Pathogen[ P03346] interacts with 18 human partners:{Q969S8;Q9NQX1;Q96DB2;O15379;Q9NSC2;P56524;O94776;Q8IXJ6;Q92769;Q9UBU8;Q13547;Q9BY41;Q9UIF9;Q8WUI4;Q9UKV0;P35232;Q96PK6;Q9UQL6}

6784 Pathogen[ Q85601] interacts with 18 human partners:{Q969S8;Q9UKV0;Q96DB2;Q96PK6;Q9BY41;O94776;Q9UQL6;Q9UIF9;Q9UBU8;Q9NQX1;Q8IXJ6;Q92769;P56524;O15379;P35232;Q13547;Q9NSC2;Q8WUI4}

6785 Pathogen[ P14079] interacts with 17 human partners:{Q9UQL6;O15379;Q9NQX1;Q9UBU8;Q96DB2;Q969S8;Q8WUI4;Q9UKV0;P35232;Q92769;Q9UIF9;Q9BY41;Q8IXJ6;P56524;O94776;Q96PK6;Q9NSC2}

6786 Pathogen[ P03383] interacts with 16 human partners:{O94776;Q9UQL6;Q9UBU8;Q9NQX1;Q96PK6;Q92769;Q9NSC2;O15379;Q9UIF9;P35232;Q13547;Q9BY41;Q9UKV0;P56524;Q8WUI4;Q969S8}

6787 Pathogen[ P03410] interacts with 18 human partners:{Q9UKV0;Q8IXJ6;Q96PK6;Q9BY41;Q9UBU8;Q8WUI4;Q9UQL6;Q969S8;Q92769;O15379;P56524;O94776;Q13547;Q9UIF9;Q9NSC2;P35232;Q9NQX1;Q96DB2}

6788 Pathogen[ P14075] interacts with 16 human partners:{Q9BY41;Q9NSC2;Q969S8;Q9UBU8;P56524;O94776;Q9UKV0;Q13547;P35232;Q9NQX1;Q96PK6;Q92769;Q9UIF9;O15379;Q9UQL6;Q8WUI4}

6789 Pathogen[ P0C206] interacts with 18 human partners:{Q9NQX1;Q92769;Q9UBU8;Q9NSC2;Q96DB2;Q9UKV0;Q13547;O94776;P35232;O15379;Q8WUI4;Q96PK6;Q9UIF9;Q8IXJ6;Q9BY41;P56524;Q969S8;Q9UQL6}

6790 Pathogen[ P03363] interacts with 13 human partners:{Q9NQX1;Q9BY41;O15379;Q969S8;Q9UQL6;Q96PK6;Q9UBU8;Q9UIF9;Q9UKV0;Q13547;Q8WUI4;P35232;O94776}

6791 [Cluster 618]GO:0032434+P biological\_process [name] regulation of proteasomal ubiquitin-dependent protein catabolic process [def] "Any process that modulates the frequency, rate or extent of the breakdown of a protein or peptide by hydrolysis of its peptide bonds, initiated by the covalent attachment of ubiquitin, and mediated by the proteasome." [GOC

6792 Pathogen[ Q2Q067] interacts with 4 human partners:{P54727;P54725;Q9NRR5;Q8N668}

6793 Pathogen[ P0C214] interacts with 4 human partners:{Q9NRR5;P54725;Q8N668;P54727}

6794 Pathogen[ P03346] interacts with 4 human partners:{Q8N668;Q9NRR5;P54727;P54725}

6795 Pathogen[ Q85601] interacts with 4 human partners:{Q9NRR5;P54727;P54725;Q8N668}

6796 Pathogen[ P14079] interacts with 3 human partners:{Q9NRR5;Q8N668;P54727}

6797 Pathogen[ P03383] interacts with 4 human partners:{Q8N668;P54725;P54727;Q9NRR5}

6798 Pathogen[ P03410] interacts with 4 human partners:{Q9NRR5;P54725;Q8N668;P54727}

6799 Pathogen[ P14075] interacts with 4 human partners:{Q8N668;P54727;Q9NRR5;P54725}

6800 Pathogen[ P0C206] interacts with 4 human partners:{P54725;Q9NRR5;P54727;Q8N668}

6801 Pathogen[ P03363] interacts with 4 human partners:{P54727;Q8N668;Q9NRR5;P54725}

6802 [Cluster 619]GO:0031627+P biological\_process [name] telomeric loop formation [def] "The process in which linear telomeric DNA is remodeled into duplex loops, by the invasion of a 3' single-stranded overhang into the duplex region." [GOC

6803 Pathogen[ Q2Q067] interacts with 2 human partners:{Q15554;Q9H816}

6804 Pathogen[ P0C214] interacts with 2 human partners:{Q9H816;Q15554}

6805 Pathogen[ P03346] interacts with 2 human partners:{Q15554;Q9H816}

6806 Pathogen[ Q85601] interacts with 2 human partners:{Q15554;Q9H816}

6807 Pathogen[ P14079] interacts with 2 human partners:{Q15554;Q9H816}

6808 Pathogen[ P03383] interacts with 2 human partners:{Q15554;Q9H816}

6809 Pathogen[ P03410] interacts with 2 human partners:{Q9H816;Q15554}

6810 Pathogen[ P14075] interacts with 2 human partners:{Q15554;Q9H816}

6811 Pathogen[ P0C206] interacts with 2 human partners:{Q15554;Q9H816}

6812 Pathogen[ P03363] interacts with 2 human partners:{Q9H816;Q15554}

6813 [Cluster 620]GO:0055015+P biological\_process [name] ventricular cardiac muscle cell development [def] "The process whose specific outcome is the progression of a ventricular cardiac muscle cell over time, from its formation to the mature state. Cardiac muscle cells are striated muscle cells that are responsible for heart contraction. The ventricle is the part of the heart that pumps blood out of the organ."

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[GOC
6814 Pathogen[ Q2Q067] interacts with 4 human partners:{P02545;Q14192;P14635;Q9H1Y0}
6815 Pathogen[ P0C214] interacts with 5 human
partners:{P14635;P35580;Q14192;Q9H1Y0;P02545}
6816 Pathogen[ P03346] interacts with 4 human partners:{P02545;P14635;Q14192;Q9H1Y0}
6817 Pathogen[ Q85601] interacts with 5 human
partners:{P02545;P14635;Q9H1Y0;Q14192;P35580}
6818 Pathogen[ P14079] interacts with 4 human partners:{Q14192;Q9H1Y0;P14635;P02545}
6819 Pathogen[ P03383] interacts with 5 human
partners:{P02545;Q9H1Y0;P14635;Q14192;P35580}
6820 Pathogen[ P03410] interacts with 5 human
partners:{Q9H1Y0;P14635;P02545;P35580;Q14192}
6821 Pathogen[ P14075] interacts with 4 human partners:{Q9H1Y0;P14635;P02545;Q14192}
6822 Pathogen[ P0C206] interacts with 5 human
partners:{Q9H1Y0;P02545;Q14192;P14635;P35580}
6823 Pathogen[ P03363] interacts with 3 human partners:{P02545;Q9H1Y0;Q14192}
6824 [Cluster 621]GO:0008156+P biological_process [name] negative regulation of DNA
replication [def] "Any process that stops, prevents, or reduces the frequency, rate or
extent of DNA replication." [GOC
6825 Pathogen[ Q2Q067] interacts with 11 human
partners:{Q9BZE4;Q7Z5K2;Q99741;P54274;Q29RF7;P31949;O75496;O75943;Q15361;Q9H2G4;O609
21}
6826 Pathogen[ P0C214] interacts with 11 human
partners:{Q29RF7;Q15361;O75496;O60921;Q9H2G4;O75943;Q7Z5K2;P31949;Q9BZE4;P54274;Q997
41}
6827 Pathogen[ P03346] interacts with 11 human
partners:{O60921;Q9BZE4;Q7Z5K2;Q29RF7;P54274;Q9H2G4;O75943;Q15361;Q99741;P31949;O754
96}
6828 Pathogen[ Q85601] interacts with 11 human
partners:{O75496;Q9BZE4;Q29RF7;Q7Z5K2;O75943;O60921;P31949;Q9H2G4;Q15361;Q99741;P542
74}
6829 Pathogen[ P14079] interacts with 12 human
partners:{P54274;P31949;Q9BZE4;Q99741;O75943;Q9H2G4;O43612;Q29RF7;Q15361;Q7Z5K2;O609
21;O75496}
6830 Pathogen[ P03383] interacts with 9 human
partners:{Q9BZE4;O60921;Q15361;Q29RF7;Q9H2G4;P54274;O75496;Q99741;Q7Z5K2}
6831 Pathogen[ P03410] interacts with 12 human
partners:{Q29RF7;O75943;O43612;P54274;Q7Z5K2;P31949;O60921;O75496;Q15361;Q9H2G4;Q9BZ
E4;Q99741}
6832 Pathogen[ P14075] interacts with 9 human
partners:{Q9H2G4;P54274;Q7Z5K2;O60921;Q9BZE4;Q29RF7;Q99741;Q15361;O75496}
6833 Pathogen[ P0C206] interacts with 11 human
partners:{P31949;O75496;Q15361;Q7Z5K2;Q29RF7;Q99741;O75943;P54274;O60921;Q9H2G4;Q9BZ
E4}
6834 Pathogen[ P03363] interacts with 11 human
partners:{Q9BZE4;P31949;Q9H2G4;P54274;Q99741;Q29RF7;Q15361;O75496;O60921;Q7Z5K2;O759
43}
6835 [Cluster 622]GO:0034766+P biological_process [name] negative regulation of ion
transmembrane transport [def] "Any process that stops, prevents, or reduces the
frequency, rate or extent of the directed movement of ions from one side of a membrane
to the other." [GOC
6836 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96SW2}
6837 Pathogen[ P0C214] interacts with 1 human partners:{Q96SW2}
6838 Pathogen[ P03346] interacts with 1 human partners:{Q96SW2}
6839 Pathogen[ Q85601] interacts with 1 human partners:{Q96SW2}
6840 Pathogen[ P14079] interacts with 1 human partners:{Q96SW2}
6841 Pathogen[ P03383] interacts with 1 human partners:{Q96SW2}
6842 Pathogen[ P03410] interacts with 1 human partners:{Q96SW2}
6843 Pathogen[ P14075] interacts with 1 human partners:{Q96SW2}
6844 Pathogen[ P0C206] interacts with 1 human partners:{Q96SW2}
6845 Pathogen[ P03363] interacts with 1 human partners:{Q96SW2}
6846 [Cluster 623]GO:0048853+P biological_process [name] forebrain morphogenesis [def]
"The process in which the anatomical structures of the forebrain are generated and
organized. The forebrain is the anterior of the three primary divisions of the
developing chordate brain or the corresponding part of the adult brain (in vertebrates,
includes especially the cerebral hemispheres, the thalamus, and the hypothalamus and
especially in higher vertebrates is the main control center for sensory and associative
information processing, visceral functions, and voluntary motor functions)." [GOC
6847 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9Y5K5}
6848 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y5K5}
6849 Pathogen[ P03346] interacts with 2 human partners:{Q9UBX0;Q9Y5K5}
6850 Pathogen[ Q85601] interacts with 2 human partners:{Q9UBX0;Q9Y5K5}
6851 Pathogen[ P14079] interacts with 1 human partners:{Q9Y5K5}
6852 Pathogen[ P03383] interacts with 1 human partners:{Q9Y5K5}
6853 Pathogen[ P03410] interacts with 1 human partners:{Q9Y5K5}
6854 Pathogen[ P14075] interacts with 1 human partners:{Q9Y5K5}

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6855 Pathogen[ P0C206] interacts with 2 human partners:{Q9Y5K5;Q9UBX0}  
6856 Pathogen[ P03363] interacts with 2 human partners:{Q9Y5K5;Q9UBX0}  
6857 [Cluster 624]GO:0001819+P biological\_process [name] positive regulation of cytokine production [def] "Any process that activates or increases the frequency, rate or extent of production of a cytokine." [GOC  
6858 Pathogen[ Q2Q067] interacts with 3 human partners:{Q96LR2;Q16666;Q96FA3}  
6859 Pathogen[ P0C214] interacts with 3 human partners:{Q96FA3;Q16666;Q96LR2}  
6860 Pathogen[ P03346] interacts with 3 human partners:{Q16666;Q96LR2;Q96FA3}  
6861 Pathogen[ Q85601] interacts with 3 human partners:{Q16666;Q96FA3;Q96LR2}  
6862 Pathogen[ P14079] interacts with 4 human partners:{Q9BXL7;Q96FA3;Q96LR2;Q16666}  
6863 Pathogen[ P03383] interacts with 3 human partners:{Q96LR2;Q16666;Q96FA3}  
6864 Pathogen[ P03410] interacts with 4 human partners:{Q16666;Q96FA3;Q9BXL7;Q96LR2}  
6865 Pathogen[ P14075] interacts with 3 human partners:{Q16666;Q96FA3;Q96LR2}  
6866 Pathogen[ P0C206] interacts with 3 human partners:{Q16666;Q96LR2;Q96FA3}  
6867 Pathogen[ P03363] interacts with 3 human partners:{Q16666;Q96FA3;Q96LR2}  
6868 [Cluster 625]GO:0045213+P biological\_process [name] neurotransmitter receptor metabolic process [def] "The chemical reactions and pathways involving neurotransmitter receptors." [GOC  
6869 Pathogen[ Q2Q067] interacts with 1 human partners:{P11532}  
6870 Pathogen[ P0C214] interacts with 1 human partners:{P11532}  
6871 Pathogen[ P03346] interacts with 1 human partners:{P11532}  
6872 Pathogen[ Q85601] interacts with 1 human partners:{P11532}  
6873 Pathogen[ P14079] interacts with 1 human partners:{P11532}  
6874 Pathogen[ P03383] interacts with 1 human partners:{P11532}  
6875 Pathogen[ P03410] interacts with 1 human partners:{P11532}  
6876 Pathogen[ P14075] interacts with 1 human partners:{P11532}  
6877 Pathogen[ P0C206] interacts with 1 human partners:{P11532}  
6878 Pathogen[ P03363] interacts with 1 human partners:{P11532}  
6879 [Cluster 626]GO:0044267+P biological\_process [name] cellular protein metabolic process [def] "The chemical reactions and pathways involving a specific protein, rather than of proteins in general, occurring at the level of an individual cell. Includes protein modification." [GOC  
6880 Pathogen[ Q2Q067] interacts with 154 human partners:{Q9BTW9;P23588;P05198;P61313;Q99613;P62701;P49458;P47914;P46779;O00303;O60841;Q9HAV7;Q02543;P26373;P29692;Q9UBQ5;P62750;P47813;P62273;P38646;P55735;P15880;P40429;P09132;P46782;Q96B49;P35268;P24534;P22090;P49770;P46778;P26641;P34949;P62888;P32969;P62277;P62241;O75347;P62244;P05387;Q14152;P62861;P42766;Q8TAA5;P05386;Q99471;P63241;Q14240;Q9UNX3;O95394;P30050;Q15629;P18077;P62891;Q13541;P27797;Q9BU89;P61927;P39023;P62081;P61247;Q9UHB9;P61254;Q9UI10;P17987;Q15388;P62249;P62280;P83731;P62263;Q16222;P60866;P62906;O60220;P53992;Q14232;Q9Y5J6;Q9NQP4;Q02878;P46777;O95486;P62899;Q9NR50;P08708;P50991;P08865;Q07020;P62913;O94855;P62269;P60228;Q9UHV9;P62424;P49366;P62917;P62829;P46783;Q8IYD1;P62495;P36578;P62857;P62072;P62847;O75822;P49207;Q13144;P23396;Q9Y5J7;O43615;P20042;P63173;P18621;O14925;Q9P0U1;O95487;P61758;P39019;P61353;O15371;Q04637;Q9GZV4;P62266;P42677;Q9Y3U8;P63220;P62841;P83881;P62987;P06730;P78371;P50914;P46776;P11940;P62854;P62753;P05388;Q15436;P60842;P18124;P62851;P25398;Q14442;Q15056;P62910;Q92901;P68104;P46781;P27635;O75821;O15372;Q13347;P61513;P62945;P62979}  
6881 Pathogen[ P0C214] interacts with 170 human partners:{P62861;P84098;P61247;P60228;P55735;P60709;P15880;P62081;P42766;Q9UI10;P62913;P22090;Q99832;O60841;Q9BU89;Q92901;P62249;P49368;Q15388;P62899;P62854;Q13505;P53992;P39019;P62263;Q9HAV7;O75347;P60842;P49770;P78371;P48643;P61758;P62273;P23396;P18077;Q9GZV4;Q16222;P05388;O15372;P62847;P23588;Q9BTW9;P62829;P26373;O60220;Q14152;P27635;P47813;P46778;Q99613;Q9Y512;O75821;P61513;P29692;P83881;Q15056;P62701;P49207;P11940;Q14232;P63220;P26641;P08865;P32969;Q02543;P62266;P63241;Q15436;P55789;P62277;P50914;P62072;P49366;P46779;O00303;O14925;Q9UHV9;P40429;P41091;P47914;P63173;P13639;P46783;Q95487;P49257;Q9NR50;P62280;Q9UNX3;Q9Y3U8;P30050;O43615;P62753;P62910;Q13144;P62911;Q8NBJ7;Q14240;Q9Y5J9;P62495;P38646;P62269;P10809;Q9Y5J6;P46781;Q8TAA5;Q8IYD1;P61254;P62841;P62244;P62987;Q04637;Q07020;P42677;P62945;O75822;P46776;P05198;Q15629;P27797;P34949;Q3ZCQ8;O95394;Q9Y5J7;P62241;Q99471;P46777;O60925;P55884;P24534;P83731;P35268;O15305;Q6Y7W6;P17987;Q9UHB9;P62424;P60866;Q8N4Q1;P62857;Q96B49;P49458;P61313;P08708;Q9P0U1;P20042;Q96EK6;P05387;P50991;P25398;Q9UBQ5;Q9NQP4;P61927;P62750;P62979;P05386;P09132;P62851;P06730;P46782;P18124;O95486;P61353;P36578;O15371;P18621;Q13541;Q13347;P62906;O94855;Q02878}  
6882 Pathogen[ P03346] interacts with 168 human partners:{O14925;P05387;P46779;P55735;P63173;P06730;P62917;P62249;P62913;P62861;P62277;Q02878;P41091;Q9NS69;P47813;Q8N4Q1;Q9UBQ5;Q9GZV4;P62280;P39023;Q6ZW61;Q9Y3D7;P62987;P61927;Q9UNX3;Q99471;Q9UHV9;P62857;Q13541;Q13347;O60841;P49257;P46778;P49207;O43615;Q9NQP4;Q15629;Q9P0U1;P78371;P62266;P60709;P26641;Q9Y5J7;Q99426;P61254;P62495;Q16222;Q15056;P11940;P29692;P62424;P62273;P55884;P83731;P60866;P49458;P63241;P62899;Q14152;O75821;P60842;P35268;P09132;O94855;P62891;P78708;O75347;O00303;Q46782;Q9HAV7;P61353;P62854;P38646;Q9Y3U8;P47914;Q9Y5J6;Q14232;P08865;Q15436;P60228;P61313;P25398;O60220;Q9Y512;P50991;P61513;P05388;P62269;P49368;Q02543;P42766;P62081;P49366;P61247;Q14240;P49770;Q96B49;P18621;Q8IYD1;P46781;P62072;P84098;P15880;P50914;P62829;O95486;P62979;P27797;Q99613;P24534;O75822;P39019;P23588;P23396;P42677;P62750;P62701;P30050;Q9HCU5;Q3ZCQ8;P62910;O95394;P36578;O60925;P15388;P15388;P62847;Q9BU89;Q9UHB9;P62851;P22090;O95487;Q14442;Q04637;P46777;O15371;Q07020;P62263;P62841;P83881;P05386;P18077;Q13347;P20042;P46776;P62241;P61758;Q9NR50;Q8TAA5;P62753;O15372;P62945;P53992;Q92901;P329

- 69;P26373;Q9UI10;P18124;P40429;P27635;P68104;P46783;P62906;P62244;P62888;P63220;P05198;P17987}
- 6883 Pathogen[ Q85601] interacts with 158 human partners: {P46783;P32969;O14925;P61513;P26373;P62857;P62244;P62913;P34949;P62854;P62081;P61353;Q8TAA5;Q15388;Q9NQP4;P62891;P46776;P47813;P18077;P61313;P41091;Q99613;P05388;Q9UBQ5;Q9GZV4;P62495;Q15629;O95487;P06730;Q14240;Q99471;P63173;P23588;P62072;P23396;P62273;Q9Y5J9;Q9Y5J6;P46778;P62829;P30050;P62753;P27635;Q9UHV9;O60220;Q04637;Q9Y5J7;P15880;Q9BTW9;Q6Y7W6;P83881;Q07020;P39019;P26641;Q9Y3U8;Q9NR50;P61758;P62701;P62241;P62424;P27797;O00303;P83731;P17987;P63241;P62899;P20042;Q13144;P62945;Q15436;P49770;P24534;P62263;Q13541;P62861;Q02878;P39023;P60709;P61254;O15371;Q16222;P49207;P60228;P11940;Q9Y512;P62910;P62249;P62280;P50991;P47914;P84098;P08708;P49257;P42766;O75347;P62269;P68104;P55735;Q3ZCQ8;Q9HAV7;P18621;Q8IYD1;P05387;Q9UNX3;P60842;P62277;O43615;P35268;Q96EK6;O95486;P62979;Q13347;P62847;O75822;Q14152;P05198;P42677;P63220;O95394;P38646;P46782;Q9UHB9;P46779;P62750;P62851;P62841;O15372;Q13505;P62987;P78371;P22090;P48643;P61927;P29692;P36578;O94855;P05386;Q9BU89;P08865;P61247;Q14232;O75821;P09132;P46777;P53992;P62917;Q92901;Q9UI10;P18124;P46781;P25398;P60866;Q02543;P62906;P50914;P62266;P40429;P62888}
- 6884 Pathogen[ P14079] interacts with 208 human partners: {Q5SRI9;Q15629;Q9Y3U8;P27635;O43292;P84098;P46779;Q3ZCQ8;O43615;Q9BTW9;P48643;P20042;Q8N4H5;P26373;P49257;P09132;P60842;P23396;O60925;Q15056;Q8N307;P60468;Q9Y3D7;P40429;Q16222;O00303;Q14442;O15305;O75821;P06730;Q9UI10;P18621;O95487;Q96S52;P47813;P83881;P62072;Q13505;P68104;Q9UNX3;P46781;P83731;P61513;P62847;P41091;P39656;P62753;Q9P0U1;P26641;P39023;P62273;P25398;P50991;P62495;P57054;Q6Y7W6;P43307;Q96B49;P18077;O94855;P46783;P78371;P05198;P61254;P50914;P68363;Q9BT22;Q9UHV9;Q9BRB3;P53992;P04844;Q9Y5J7;P50990;Q9NQP4;Q9Y2B2;P62979;P62841;O94777;P18124;P61758;Q14240;P42766;Q969N2;O14925;Q9NS69;P62266;P29692;O15371;P46782;P62987;Q9NYU1;Q13144;P62241;Q9BVV7;Q13541;Q8IYD1;Q15388;P23588;O95394;P32969;P22090;P62829;O75431;P60866;P62854;Q9NR50;Q07020;P39019;P63220;Q15814;P49207;P62244;Q9BU89;P24534;P62263;Q02543;P62424;Q92901;Q9NYU2;P62277;O75822;P11940;P62750;P62910;P63173;P49458;Q99426;P46776;P17987;P08708;Q99613;P34949;P36578;Q8NB7;P60709;P13639;Q9Y512;P55789;P60059;P62906;Q8NBK3;P47914;P62280;P61803;P62899;Q8N4Q1;Q9H490;P63241;Q99595;P61353;P62081;P62945;P46777;P42677;P30050;O60841;P15880;Q8TAX7;P62891;P38646;O60220;P62888;P08865;P55735;P15941;P61927;P62917;O75347;Q96AA3;Q96EK6;P46778;P62249;Q6Z61;Q99471;Q13347;P05386;P35268;O95486;Q14232;P62913;P49368;P05387;Q9UBQ5;P61247;Q8TBF5;P62269;P62701;Q9UHB9;Q9Y5J9;P51571;Q9GZV4;P61313;Q14152;Q5SSG8;Q9Y5L4;Q9UBM8;P62851;P05388;Q04637;O15372;P46977;Q9HAV7;P49366;P62857;P55884;P62861;Q8TAA5}
- 6885 Pathogen[ P03383] interacts with 149 human partners: {P42766;P36578;P05388;P62266;P39019;P34949;P26373;Q9Y5J7;Q9UHV9;P62913;P62945;P62854;P40429;P62987;P62891;P25398;P62280;P55735;Q07020;P49458;P62750;P62072;O15371;P05387;P62249;P38646;P62888;O95487;P62899;Q9UBQ5;P61927;P24534;P46777;P46779;P49207;P83731;P62424;Q9UI10;O14925;P18124;P46778;O43615;Q9HAV7;Q92901;P62753;Q9GZV4;P42677;P61247;P83881;O95486;P26641;P47914;O60841;P11940;Q14152;P62917;P62273;O60220;Q9UNX3;P63241;Q9NQP4;P09132;P30050;Q15436;P84098;Q96B49;P32969;P20042;P49366;P62277;Q13144;P18077;P23588;P06730;P63173;Q9NR50;Q15629;P62081;O75347;Q9Y5J6;Q13541;P61313;P08865;O94855;P62851;P62495;Q15388;P47813;P46782;P62269;P68104;P63220;P05198;Q99471;Q02543;P62244;Q02878;P49770;Q8IYD1;P62910;P27635;Q9P0U1;Q8TAA5;P62857;Q99613;P78371;O75822;P62906;P46783;Q9Y3U8;P60866;Q04637;P61254;P62979;O95394;P62241;P46781;Q14232;O60925;Q13347;P39023;P53992;Q9BU89;Q9UHB9;P62841;P22090;P62701;P62829;P29692;P62263;P62847;P35268;P05386;P50914;Q9Y5J9;P61758;P62861;P18621;O15372;P46776;O75821;P15880;P23396;P61513;P27797;P08708;P61353;Q13505}
- 6886 Pathogen[ P03410] interacts with 210 human partners: {Q8N4H5;P62861;P05386;Q9Y5L4;Q02543;Q9Y512;P61247;P62241;P17987;P62829;P49207;P26373;Q9BU89;P61513;P49368;Q9NR50;Q99832;P68104;P62072;P62899;Q96B49;P48643;Q9UHB9;P62244;Q15388;O60841;P62913;Q8NB7;O75822;Q5SSG8;P60468;P49257;P38646;P60059;Q02878;Q92901;O94855;P11940;O15372;P15880;P46777;P46776;P62841;P30050;P53992;P05388;Q6Z61;Q9Y5J7;P06730;P15941;Q9Y2B2;P46781;P18124;Q13505;P20042;Q16222;Q8TAA5;Q8N307;P62269;P34949;Q07020;P63220;P62910;P62847;P62906;P23396;O94777;Q14232;P18621;P62266;Q9NS69;Q96EK6;P62249;Q15814;P63173;P50914;P62280;Q8TAX7;Q14442;P22090;P13639;P61313;P62979;Q99613;P47813;Q96S52;Q13541;Q14152;P62701;P49770;P62750;Q5SRI9;P55884;O14925;P08865;Q99595;Q9UNX3;P62277;O15371;P36578;P18077;Q99471;Q15436;P25398;P43307;Q96DR8;P61927;P84098;P62854;P62273;Q3ZCQ8;P09132;P50990;Q9NYU1;P62081;P46783;P62495;Q9BTW9;Q15056;P61758;P49366;Q15629;Q9Y3U8;O43615;O95486;Q9Y3D7;Q9BRB3;P08708;P46782;P32969;Q9BVV7;P60842;O00303;Q9BT22;P04844;P46779;Q9HCU5;O15305;Q9Y5J6;P27635;Q9NQP4;Q8IYD1;O75347;Q9Y5J9;O75821;P62987;P68363;Q969N2;P24534;O60925;P62857;Q6Y7W6;P78371;P63241;Q9UHV9;Q13347;Q9UBY8;P62263;P41091;Q9P0U1;P62424;O60220;P62888;P61254;P46778;P62945;P05387;Q9HAV7;P42766;P26641;P39019;P47914;Q9GZV4;P40429;Q04637;P55735;P49458;P39023;P39656;P29692;P55789;Q99426;P62917;P62851;P83731;Q9H490;O95394;P60228;P35268;P61803;P61313;Q9P2X0;P62891;Q8N4Q1;P62753;Q9UBQ5;P23588;Q9UI10;P60709;P50991;O95487;Q14240;Q9NYU2;P83881;P60866;O75431;Q13144;P42677;P05198;P27797}
- 6887 Pathogen[ P14075] interacts with 158 human partners: {Q9P0U1;P42766;O14925;P49207;P09132;Q13505;P62857;P46781;P63220;P32969;Q9HAV7;P62495;O94777;P42677;P62913;Q9Y5J9;P22090;O60841;P20042;Q96B49;Q02878;Q5SRI9;Q14442;P62277;Q6Z61;O15372;P62072;O75347;P62851;P68104;P23588;P08865;P62244;P08708;Q15388;P61254;P46778;Q8TAA5;P34949;P05388;P26641;P83881;P075821;P46777;P29692;Q9GZV4;Q9Y3U8;P62249;P78371;P06730;P62081;Q15629;P63241;P62750;P18621;Q02543;Q9UI10;P18124;Q9UNX3;P53992;P25398;P38646;P55735;P47813;Q9UHV9;P05198;O15371;P49366;Q9BU89;P119

40;Q8TAX7;P60228;P63173;P30050;O95487;P62979;P83731;P49458;P84098;Q9Y512;Q14232;P61247;P62753;P46782;P62891;P62861;P18077;P46779;P62917;P39023;Q04637;P50914;P62269;P62847;P62910;P62273;P27797;P40429;P23396;O60220;P62241;P15880;Q9NQP4;P49770;P62987;Q8IYD1;Q15436;P62841;P36578;P62266;P55789;P61758;Q13347;P61513;O75822;P61313;P27635;P62888;Q92901;O95394;O60925;P35268;Q9NR50;Q9UHB9;P62945;Q9Y5J7;P46776;O94855;P46783;P62701;Q13144;P62899;P47914;P62906;Q9UBQ5;P05386;Q96EK6;P61353;P39019;P62424;O95486;P24534;Q9Y5J6;Q99471;P62829;P62280;Q13541;Q9NS69;Q07020;P62263;P62854;P60866;P26373;O43615;P05387;Q14152;P61927}

6888 Pathogen[ P0C206] interacts with 181 human partners: {P41091;P09132;P40429;Q8NB7;P61313;Q5SRI9;P48643;Q13541;Q9Y5L4;Q99613;P60709;P27635;Q9Y5J6;Q9GZV4;P20042;P18124;P62W61;P55789;P62854;P27797;Q16222;P49207;P62081;P30050;O94855;P39656;Q96B49;P62241;P62244;P50914;P08865;P62750;P18621;P46781;P62266;Q02543;Q9BTW9;Q14232;Q9HAV7;O95394;Q07020;P83881;Q8IYD1;P46778;Q14442;O60220;P62263;P62273;Q02878;P55735;Q9Y5J9;O94777;P50991;P62495;P62280;P26641;P17987;P34949;P62857;P62851;Q99471;P62910;P38646;Q9NR50;Q9Y512;P46782;Q8N4Q1;Q9Y5J7;P06730;P61247;Q15814;Q9UHV9;Q13144;P18077;P62913;P61927;Q6Y7W6;P61353;P62888;Q99426;O43615;Q3ZCQ8;P36578;P60228;P49770;P62861;P05198;O60925;O60841;Q9Y3D7;P35268;P23396;P39023;O95486;P32969;Q9NS69;P62701;P05386;P22090;P49257;O95487;P84098;P62945;P26373;Q14152;P46777;P05388;Q9UI10;P62979;Q9P0U1;Q9Y2B2;O15371;O14925;P62899;P47813;Q8TAA5;P83731;Q13505;P39019;Q92901;P05387;Q15388;P46783;P42766;P60866;Q14240;Q96EK6;P62841;P62072;P63241;Q9UNX3;P23588;P61513;P24534;P49368;P49458;P61758;Q15629;P62277;Q9UHB9;P46776;P62906;Q04637;P63173;P53992;P62987;O75347;O75821;P62891;P62269;P29692;P62753;Q13347;P46779;P63220;P60842;Q9BU89;P15880;P25398;O00303;P08708;P11940;Q8N4H5;P47914;P68104;P62847;P78371;Q9NQP4;P61254;O15372;Q8TAX7;O75822;P42677;P62829;P62249;P62424;Q9Y3U8;Q9UBQ5;P62917;Q15436}

6889 Pathogen[ P03363] interacts with 157 human partners: {P62913;P09132;P18621;O75347;P05386;Q9GZV4;O15371;P62750;P23396;P42677;P63173;P08865;P62847;P18077;Q16222;P05387;P84098;P42766;P60709;P62249;P05388;O60841;P36578;Q13347;P62753;Q9UHV9;P62081;P62910;P61513;P46776;Q9UI10;P61254;P62273;Q9UHB9;Q15388;P32969;O14925;Q92901;Q8IYD1;P46778;Q15056;P61927;Q9UBQ5;P62891;P68363;Q14152;Q15436;P61353;P23588;Q3ZCQ8;P08708;O95486;P15880;P11940;Q99471;O15371;P41091;P62899;P62495;P05198;P26373;P50991;P83881;Q13748;O43615;P22090;P62861;P62841;Q9UNX3;Q9NR50;P30050;O60925;P62829;P26641;Q14240;P46782;P35268;Q99426;P29692;P27797;P20042;P46781;P47813;P50914;P38646;Q9Y5J7;Q9P0U1;Q15814;Q9BTW9;P63220;P17987;P61313;P39019;P46779;Q02543;P46777;Q8TAA5;P62987;P61758;Q9Y512;P25398;Q6ZW61;P49770;P60228;P83731;P62851;P62280;Q9Y3U8;P62888;P49458;P63241;P60842;P62244;P62277;P62906;P78371;P62266;P62945;P53992;P49207;P62241;P62424;O95487;P60866;P61247;P24534;Q13144;P62899;P62857;Q02878;Q9NQ4;Q13541;O75821;Q9NS69;Q07020;P39023;P62854;P62917;P55884;P48643;P18124;P40429;P27635;P06730;P62263;P55735;P47914;P62701;O94855;P68104;O75822;P62269;P49368;P46783;Q99613;Q04637;O00303}

6890 [Cluster 627]GO:0042327+P biological\_process [name] positive regulation of phosphorylation [def] "Any process that activates or increases the frequency, rate or extent of addition of phosphate groups to a molecule." [GOC

6891 Pathogen[ Q2Q067] interacts with 4 human partners: {Q7L9L4;Q92990;O95999;Q15750}

6892 Pathogen[ P0C214] interacts with 3 human partners: {Q7L9L4;O95999;Q15750}

6893 Pathogen[ P03346] interacts with 5 human partners: {Q92990;Q13322;Q7L9L4;O95999;Q15750}

6894 Pathogen[ Q85601] interacts with 3 human partners: {Q15750;Q7L9L4;O95999}

6895 Pathogen[ P14079] interacts with 4 human partners: {O95999;Q15750;Q92990;Q7L9L4}

6896 Pathogen[ P03383] interacts with 4 human partners: {Q7L9L4;O95999;Q92990;Q15750}

6897 Pathogen[ P03410] interacts with 4 human partners: {Q15750;Q7L9L4;O95999;Q92990}

6898 Pathogen[ P14075] interacts with 4 human partners: {Q92990;Q15750;O95999;Q7L9L4}

6899 Pathogen[ P0C206] interacts with 4 human partners: {O95999;Q92990;Q7L9L4;Q15750}

6900 Pathogen[ P03363] interacts with 3 human partners: {Q92990;Q15750;Q7L9L4}

6901 [Cluster 628]GO:0033673+P biological\_process [name] negative regulation of kinase activity [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of kinase activity, the catalysis of the transfer of a phosphate group, usually from ATP, to a substrate molecule." [GOC

6902 Pathogen[ Q2Q067] interacts with 4 human partners: {Q96IF1;Q8WTW4;P46527;P49918}

6903 Pathogen[ P0C214] interacts with 3 human partners: {Q8WTW4;P46527;P49918}

6904 Pathogen[ P03346] interacts with 4 human partners: {Q96IF1;Q8WTW4;P49918;P46527}

6905 Pathogen[ Q85601] interacts with 4 human partners: {Q8WTW4;Q96IF1;P49918;P46527}

6906 Pathogen[ P14079] interacts with 4 human partners: {P49918;Q96IF1;Q8WTW4;P46527}

6907 Pathogen[ P03383] interacts with 3 human partners: {Q8WTW4;P46527;P49918}

6908 Pathogen[ P03410] interacts with 4 human partners: {P46527;Q8WTW4;Q96IF1;P49918}

6909 Pathogen[ P14075] interacts with 3 human partners: {P46527;Q8WTW4;P49918}

6910 Pathogen[ P0C206] interacts with 4 human partners: {Q96IF1;P46527;Q8WTW4;P49918}

6911 Pathogen[ P03363] interacts with 3 human partners: {P49918;Q96IF1;Q8WTW4}

6912 [Cluster 629]GO:0009416+P biological\_process [name] response to light stimulus [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a light stimulus, electromagnetic radiation of wavelengths classified as infrared, visible or ultraviolet light." [GOC

6913 Pathogen[ Q2Q067] interacts with 3 human partners: {P01100;Q9UN2;O14503}

6914 Pathogen[ P0C214] interacts with 6 human partners: {P01100;P17275;Q16613;Q9UN2;O14503;P22830}

6915 Pathogen[ P03346] interacts with 5 human partners: {P17275;O15534;O14503;Q9UNS2;P01100}

6916 Pathogen[ Q85601] interacts with 6 human partners: {O15534;Q16613;O14503;P01100;Q9UNS2;P17275}

6917 Pathogen[ P14079] interacts with 7 human partners: {Q9UNS2;Q16613;P17275;P22830;O14503;P01100;O15534}

6918 Pathogen[ P03383] interacts with 5 human partners: {Q16613;O14503;P01100;Q9UNS2;P17275}

6919 Pathogen[ P03410] interacts with 6 human partners: {P01100;P17275;P22830;Q16613;Q9UNS2;O15534}

6920 Pathogen[ P14075] interacts with 5 human partners: {P17275;Q16613;O14503;P01100;Q9UNS2}

6921 Pathogen[ P0C206] interacts with 6 human partners: {P17275;O15534;P01100;P22830;Q16613;Q9UNS2}

6922 Pathogen[ P03363] interacts with 5 human partners: {P17275;Q9UNS2;O15534;O14503;P01100}

6923 [Cluster 630]GO:0032464+P biological\_process [name] positive regulation of protein homooligomerization [def] "Any process that activates or increases the frequency, rate or extent of protein homooligomerization." [GOC

6924 Pathogen[ Q2Q067] interacts with 4 human partners: {P55957;Q9BXH1;Q96LC9;O00198}

6925 Pathogen[ P0C214] interacts with 4 human partners: {O00198;Q96LC9;P55957;Q9BXH1}

6926 Pathogen[ P03346] interacts with 4 human partners: {Q96LC9;P55957;O00198;Q9BXH1}

6927 Pathogen[ Q85601] interacts with 4 human partners: {Q96LC9;Q9BXH1;O00198;P55957}

6928 Pathogen[ P14079] interacts with 5 human partners: {Q13323;Q9BXH1;Q96LC9;O00198;P55957}

6929 Pathogen[ P03383] interacts with 4 human partners: {Q96LC9;P55957;O00198;Q9BXH1}

6930 Pathogen[ P03410] interacts with 5 human partners: {Q9BXH1;O00198;Q96LC9;P55957;Q13323}

6931 Pathogen[ P14075] interacts with 4 human partners: {P55957;Q96LC9;Q9BXH1;O00198}

6932 Pathogen[ P0C206] interacts with 4 human partners: {Q9BXH1;Q96LC9;O00198;P55957}

6933 Pathogen[ P03363] interacts with 4 human partners: {P55957;Q96LC9;O00198;Q9BXH1}

6934 [Cluster 631]GO:0002087+P biological\_process [name] regulation of respiratory gaseous exchange by neurological system process [def] "A process carried out by the nervous system that is required for the proper control of respiratory gaseous exchange. This process occurs in the respiratory center of the brain in vertebrates." [GOC

6935 Pathogen[ Q2Q067] interacts with 4 human partners: {Q63HK5;P40426;O43711;O94925}

6936 Pathogen[ P0C214] interacts with 2 human partners: {Q63HK5;O94925}

6937 Pathogen[ P03346] interacts with 4 human partners: {P40426;O43711;Q63HK5;O94925}

6938 Pathogen[ Q85601] interacts with 4 human partners: {O94925;O43711;P40426;Q63HK5}

6939 Pathogen[ P14079] interacts with 3 human partners: {O94925;O43711;Q63HK5}

6940 Pathogen[ P03383] interacts with 2 human partners: {O94925;O43711}

6941 Pathogen[ P03410] interacts with 4 human partners: {P40426;O94925;O43711;Q63HK5}

6942 Pathogen[ P14075] interacts with 2 human partners: {O43711;O94925}

6943 Pathogen[ P0C206] interacts with 4 human partners: {O43711;Q63HK5;P40426;O94925}

6944 Pathogen[ P03363] interacts with 4 human partners: {O94925;O43711;Q63HK5;P40426}

6945 [Cluster 632]GO:0048511+P biological\_process [name] rhythmic process [def] "Any process pertinent to the generation and maintenance of rhythms in the physiology of an organism." [GOC

6946 Pathogen[ Q2Q067] interacts with 10 human partners: {Q10587;Q8WYA1;Q9UNS1;Q16534;Q99743;Q9UKT7;Q9UK39;Q16649;Q16526;Q10586}

6947 Pathogen[ P0C214] interacts with 11 human partners: {Q99743;Q16613;Q9UKT7;Q10587;Q10586;Q9UK39;Q9UNS1;Q49AN0;Q8WYA1;Q16534;Q16526}

6948 Pathogen[ P03346] interacts with 16 human partners: {Q9UKT7;Q49AN0;Q9UNS1;Q16526;O15055;O15534;O00327;Q16534;Q16649;Q9UK39;Q10586;Q8WYA1;O15516;P56645;Q10587;Q99743}

6949 Pathogen[ Q85601] interacts with 17 human partners: {O15534;P56645;Q49AN0;O15516;Q8WYA1;Q16613;O00327;Q10587;Q99743;Q9UKT7;Q16649;Q9UK39;O15055;Q16534;Q16526;Q10586;Q9UNS1}

6950 Pathogen[ P14079] interacts with 16 human partners: {Q9UH36;Q99743;Q10587;Q16526;Q16649;Q49AN0;Q16613;Q9UK39;P56645;Q9UKT7;O15055;Q16534;Q8WYA1;Q9UNS1;Q10586;O15534}

6951 Pathogen[ P03383] interacts with 7 human partners: {Q9UNS1;Q9UK39;Q16613;Q9UKT7;Q10586;Q16534;Q16526}

6952 Pathogen[ P03410] interacts with 16 human partners: {Q99743;Q9UKT7;Q9UK39;O15055;Q9UH36;Q16649;P56645;Q16613;O15534;Q16526;Q49AN0;Q10586;Q9UNS1;Q10587;Q16534;Q8WYA1}

6953 Pathogen[ P14075] interacts with 7 human partners: {Q9UKT7;Q16613;Q10586;Q9UK39;Q9UNS1;Q16526;Q16534}

6954 Pathogen[ P0C206] interacts with 18 human partners: {Q9UNS1;Q16649;O15534;Q10587;O00327;Q9UKT7;Q99743;Q16526;O15516;P56645;Q16534;Q8WYA1;Q9UH36;Q9UK39;O15055;Q49AN0;Q16613;Q10586}

6955 Pathogen[ P03363] interacts with 15 human partners: {Q16649;Q10586;Q99743;P56645;Q9UK39;Q49AN0;Q8WYA1;O00327;Q9UNS1;Q16526;O15055;Q9UKT7;Q16534;O15534;Q10587}

6956 [Cluster 633]GO:0032514+P biological\_process [name] positive regulation of protein

phosphatase type 2B activity [def] "Any process that activates or increases the activity of the enzyme protein phosphatase type 2B." [GOC

6957 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13023}

6958 Pathogen[ P0C214] interacts with 1 human partners:{Q13023}

6959 Pathogen[ P03346] interacts with 1 human partners:{Q13023}

6960 Pathogen[ Q85601] interacts with 1 human partners:{Q13023}

6961 Pathogen[ P14079] interacts with 1 human partners:{Q13023}

6962 Pathogen[ P03383] interacts with 1 human partners:{Q13023}

6963 Pathogen[ P03410] interacts with 1 human partners:{Q13023}

6964 Pathogen[ P14075] interacts with 1 human partners:{Q13023}

6965 Pathogen[ P0C206] interacts with 1 human partners:{Q13023}

6966 Pathogen[ P03363] interacts with 1 human partners:{Q13023}

6967 [Cluster 634]GO:0035970+P biological\_process [name] peptidyl-threonine dephosphorylation [def] "The removal of phosphoric residues from peptidyl-O-phospho-L-threonine to form peptidyl-threonine." [GOC

6968 Pathogen[ Q2Q067] interacts with 6 human partners:{Q8WY54;O15355;P35813;O75688;P49593;O15297}

6969 Pathogen[ P0C214] interacts with 6 human partners:{P35813;Q9P0J1;O15297;Q8WY54;P49593;O75688}

6970 Pathogen[ P03346] interacts with 6 human partners:{P35813;Q8WY54;P49593;O15297;O75688;O15355}

6971 Pathogen[ Q85601] interacts with 6 human partners:{O75688;P49593;O15355;O15297;Q8WY54;P35813}

6972 Pathogen[ P14079] interacts with 6 human partners:{P49593;O15297;P35813;Q8WY54;O75688;O15355}

6973 Pathogen[ P03383] interacts with 4 human partners:{O15297;P35813;O15355;Q8WY54}

6974 Pathogen[ P03410] interacts with 6 human partners:{O15355;P35813;Q8WY54;O75688;O15297;P49593}

6975 Pathogen[ P14075] interacts with 4 human partners:{O15297;P35813;Q8WY54;O15355}

6976 Pathogen[ P0C206] interacts with 6 human partners:{Q8WY54;P49593;O15355;O75688;O15297;P35813}

6977 Pathogen[ P03363] interacts with 4 human partners:{O15355;O15297;O75688;Q8WY54}

6978 [Cluster 635]GO:0021506+P biological\_process [name] anterior neuropore closure [def] "The joining together of the neural folds of the rostral opening of the neural tube. The anterior neuropore appears before the process of neural tube closure is complete." [GO\_REF

6979 Pathogen[ Q2Q067] interacts with 1 human partners:{Q86YP4}

6980 Pathogen[ P0C214] interacts with 1 human partners:{Q86YP4}

6981 Pathogen[ P03346] interacts with 1 human partners:{Q86YP4}

6982 Pathogen[ Q85601] interacts with 1 human partners:{Q86YP4}

6983 Pathogen[ P14079] interacts with 1 human partners:{Q86YP4}

6984 Pathogen[ P03383] interacts with 1 human partners:{Q86YP4}

6985 Pathogen[ P03410] interacts with 1 human partners:{Q86YP4}

6986 Pathogen[ P14075] interacts with 1 human partners:{Q86YP4}

6987 Pathogen[ P0C206] interacts with 1 human partners:{Q86YP4}

6988 Pathogen[ P03363] interacts with 1 human partners:{Q86YP4}

6989 [Cluster 636]GO:0031468+P biological\_process [name] nuclear envelope reassembly [def] "The reformation of the nuclear envelope following its breakdown in the context of a normal process." [GOC

6990 Pathogen[ Q2Q067] interacts with 1 human partners:{P50402}

6991 Pathogen[ P0C214] interacts with 1 human partners:{P50402}

6992 Pathogen[ P03346] interacts with 1 human partners:{P50402}

6993 Pathogen[ Q85601] interacts with 1 human partners:{P50402}

6994 Pathogen[ P14079] interacts with 1 human partners:{P50402}

6995 Pathogen[ P03383] interacts with 1 human partners:{P50402}

6996 Pathogen[ P03410] interacts with 1 human partners:{P50402}

6997 Pathogen[ P14075] interacts with 1 human partners:{P50402}

6998 Pathogen[ P0C206] interacts with 1 human partners:{P50402}

6999 Pathogen[ P03363] interacts with 1 human partners:{P50402}

7000 [Cluster 637]GO:0031116+P biological\_process [name] positive regulation of microtubule polymerization [def] "Any process that activates or increases the frequency, rate or extent of microtubule polymerization." [GOC

7001 Pathogen[ Q2Q067] interacts with 4 human partners:{P54274;Q9P270;Q6PGN9;P46527}

7002 Pathogen[ P0C214] interacts with 5 human partners:{P46527;Q6PGN9;Q9P270;P54274;P36404}

7003 Pathogen[ P03346] interacts with 6 human partners:{P54274;P36404;Q6PGN9;P30622;Q9P270;P46527}

7004 Pathogen[ Q85601] interacts with 5 human partners:{Q6PGN9;P30622;Q9P270;P54274;P46527}

7005 Pathogen[ P14079] interacts with 6 human partners:{P54274;Q6PGN9;Q9P270;P46527;P30622;P10636}

7006 Pathogen[ P03383] interacts with 4 human partners:{Q6PGN9;P46527;Q9P270;P54274}

7007 Pathogen[ P03410] interacts with 6 human partners:{P46527;P30622;P54274;P10636;Q6PGN9;Q9P270}

7008 Pathogen[ P14075] interacts with 4 human partners:{P46527;P54274;Q6PGN9;Q9P270}

7009 Pathogen[ P0C206] interacts with 6 human



partners:{Q6PGN9;P30622;P10636;P54274;P46527;Q9P270}

7010 Pathogen[ P03363] interacts with 4 human partners:{Q6PGN9;P30622;P54274;Q9P270}

7011 [Cluster 638]GO:0032784+P biological\_process [name] regulation of transcription elongation, DNA-dependent [def] "Any process that modulates the frequency, rate or extent of transcription elongation, the extension of an RNA molecule after transcription initiation and promoter clearance by the addition of ribonucleotides catalyzed by a DNA-dependent RNA polymerase." [GOC

7012 Pathogen[ Q2Q067] interacts with 12 human partners:{Q96FV9;O00267;Q8IYF1;Q15560;Q7KZ85;Q03468;Q5BKZ1;P23193;O75764;P43897;Q86U70;Q8N163}

7013 Pathogen[ P0C214] interacts with 12 human partners:{Q5BKZ1;Q8N163;Q96FV9;O75764;O00267;Q7KZ85;Q15560;P43897;Q86U70;Q8IYF1;P23193;Q03468}

7014 Pathogen[ P03346] interacts with 14 human partners:{Q96FV9;Q7KZ85;Q86U70;Q8N163;Q8N8B7;Q15560;O75764;P43897;Q03468;O00267;Q8IYF1;P23193;O43719;Q5BKZ1}

7015 Pathogen[ Q85601] interacts with 12 human partners:{Q86U70;Q15560;Q96FV9;Q03468;Q7KZ85;O00267;P23193;P43897;Q8N163;O75764;Q5BKZ1;Q8IYF1}

7016 Pathogen[ P14079] interacts with 13 human partners:{Q15560;Q8N8B7;Q8N163;Q86U70;Q96FV9;P43897;Q5BKZ1;Q7KZ85;O75764;P23193;Q8IYF1;Q03468;O00267}

7017 Pathogen[ P03383] interacts with 10 human partners:{Q8N163;Q86U70;P23193;Q96FV9;Q15560;O00267;Q03468;P43897;Q5BKZ1;Q7KZ85}

7018 Pathogen[ P03410] interacts with 13 human partners:{O00267;Q7KZ85;O75764;P23193;Q03468;Q15560;Q96FV9;Q8IYF1;Q8N163;Q86U70;Q5BKZ1;Q8N8B7;P43897}

7019 Pathogen[ P14075] interacts with 10 human partners:{Q86U70;Q5BKZ1;Q7KZ85;Q15560;Q8N163;Q03468;P43897;P23193;Q96FV9;O00267}

7020 Pathogen[ P0C206] interacts with 13 human partners:{P23193;Q8IYF1;O75764;Q03468;Q5BKZ1;P43897;Q8N8B7;Q96FV9;Q15560;Q7KZ85;O00267;Q86U70;Q8N163}

7021 Pathogen[ P03363] interacts with 14 human partners:{Q86U70;P43897;O75764;Q8IYF1;Q8N8B7;O00267;Q96FV9;Q7KZ85;Q5BKZ1;Q8N163;P23193;Q03468;Q15560;O43719}

7022 [Cluster 639]GO:0000012+P biological\_process [name] single strand break repair [def] "The repair of single strand breaks in DNA. Repair of such breaks is mediated by the same enzyme systems as are used in base excision repair." [http

7023 Pathogen[ Q2Q067] interacts with 4 human partners:{P18887;Q7Z2E3;Q9NUW8;Q8IW19}

7024 Pathogen[ P0C214] interacts with 4 human partners:{Q8IW19;P18887;Q7Z2E3;Q9NUW8}

7025 Pathogen[ P03346] interacts with 5 human partners:{Q8IW19;Q9NUW8;Q6ZNB5;P18887;Q7Z2E3}

7026 Pathogen[ Q85601] interacts with 4 human partners:{P18887;Q9NUW8;Q8IW19;Q7Z2E3}

7027 Pathogen[ P14079] interacts with 6 human partners:{Q6ZNB5;Q9NUW8;P18887;Q7Z2E3;P49917;Q8IW19}

7028 Pathogen[ P03383] interacts with 4 human partners:{Q7Z2E3;Q8IW19;Q9NUW8;P18887}

7029 Pathogen[ P03410] interacts with 5 human partners:{P18887;Q7Z2E3;Q8IW19;Q9NUW8;Q6ZNB5}

7030 Pathogen[ P14075] interacts with 4 human partners:{Q7Z2E3;Q8IW19;Q9NUW8;P18887}

7031 Pathogen[ P0C206] interacts with 6 human partners:{Q6ZNB5;Q9NUW8;P49917;Q8IW19;Q7Z2E3;P18887}

7032 Pathogen[ P03363] interacts with 5 human partners:{P18887;Q8IW19;Q7Z2E3;Q6ZNB5;Q9NUW8}

7033 [Cluster 640]GO:0048489+P biological\_process [name] synaptic vesicle transport [def] "The directed movement of substances in synaptic membrane-bounded vesicles within the neuron along the cytoskeleton either toward or away from the neuronal cell body." [GOC

7034 Pathogen[ Q2Q067] interacts with 2 human partners:{O14910;P50570}

7035 Pathogen[ P0C214] interacts with 2 human partners:{O14910;P50570}

7036 Pathogen[ P03346] interacts with 2 human partners:{P50570;O14910}

7037 Pathogen[ Q85601] interacts with 2 human partners:{O14910;P50570}

7038 Pathogen[ P14079] interacts with 1 human partners:{P50570}

7039 Pathogen[ P03383] interacts with 1 human partners:{O14910}

7040 Pathogen[ P03410] interacts with 2 human partners:{O14910;P50570}

7041 Pathogen[ P14075] interacts with 1 human partners:{O14910}

7042 Pathogen[ P0C206] interacts with 2 human partners:{O14910;P50570}

7043 Pathogen[ P03363] interacts with 2 human partners:{O14910;P50570}

7044 [Cluster 641]GO:0039530+P

7045 Pathogen[ Q2Q067] interacts with 2 human partners:{Q92985;Q14653}

7046 Pathogen[ P0C214] interacts with 2 human partners:{Q92985;Q14653}

7047 Pathogen[ P03346] interacts with 2 human partners:{Q14653;Q92985}

7048 Pathogen[ Q85601] interacts with 2 human partners:{Q14653;Q92985}

7049 Pathogen[ P14079] interacts with 2 human partners:{Q14653;Q92985}

7050 Pathogen[ P03383] interacts with 2 human partners:{Q14653;Q92985}

7051 Pathogen[ P03410] interacts with 2 human partners:{Q14653;Q92985}

7052 Pathogen[ P14075] interacts with 2 human partners:{Q14653;Q92985}

7053 Pathogen[ P0C206] interacts with 2 human partners:{Q92985;Q14653}

7054 Pathogen[ P03363] interacts with 2 human partners:{Q14653;Q92985}

7055 [Cluster 642]GO:0046620+P biological\_process [name] regulation of organ growth  
[def] "Any process that modulates the frequency, rate or extent of growth of an organ of an organism." [GOC

7056 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9H4B6}

7057 Pathogen[ P0C214] interacts with 1 human partners:{Q9H4B6}

7058 Pathogen[ P03346] interacts with 1 human partners:{Q9H4B6}

7059 Pathogen[ Q85601] interacts with 1 human partners:{Q9H4B6}

7060 Pathogen[ P14079] interacts with 3 human partners:{Q7Z7C7;Q9H4B6;Q96JY0}

7061 Pathogen[ P03383] interacts with 1 human partners:{Q9H4B6}

7062 Pathogen[ P03410] interacts with 2 human partners:{Q7Z7C7;Q9H4B6}

7063 Pathogen[ P14075] interacts with 2 human partners:{Q9H4B6;Q7Z7C7}

7064 Pathogen[ P0C206] interacts with 2 human partners:{Q7Z7C7;Q9H4B6}

7065 Pathogen[ P03363] interacts with 2 human partners:{Q96JY0;Q9H4B6}

7066 [Cluster 643]GO:0007275+P biological\_process [name] multicellular organismal development [def] "The biological process whose specific outcome is the progression of a multicellular organism over time from an initial condition (e.g. a zygote or a young adult) to a later condition (e.g. a multicellular animal or an aged adult)." [GOC

7067 Pathogen[ Q2Q067] interacts with 191 human partners:{Q95376;Q13562;P49454;Q14526;Q43365;Q8IUD2;Q9H3C7;P62701;Q92988;Q9UHL9;Q43364;P31749;Q99583;Q8WUQ7;O14786;Q93009;Q96D98;Q99502;O75474;Q5D1E8;P09067;Q9Y266;Q96NB3;Q63HK5;Q5TAP6;Q9BUP3;Q8TD31;Q99081;Q5VTD9;Q14160;O00470;Q0D2K3;Q8NEM7;O95257;O60481;Q9UNS1;P31274;Q8IXK0;P31268;Q9H1B4;P48380;P35712;Q8N9N5;Q9NQ87;P13349;O43255;O96004;Q9UL49;Q8HWS3;O00167;P08151;A6NKD9;P22090;Q9UM82;Q9BXL5;Q00994;Q05195;Q9NZI5;Q14814;P39880;Q96AQ6;P17483;O15266;P41134;Q8N196;Q16626;Q9NXX1;Q6S96;P28356;P52594;Q86YF9;Q16534;Q2M1K9;Q6ZNA4;Q9Y3R5;P17036;P17482;P11308;Q53H80;Q8N5Y2;Q9Y4Z2;O00458;Q96EK5;P09017;Q5BJF6;P11831;P60174;P15172;O43248;Q9Y295;Q9NZP6;O60663;Q9P2T0;P78545;P09629;P58340;P54845;Q00444;Q9NYF0;Q99966;Q9UQB3;Q99504;P35548;P20719;Q15699;Q96KR1;Q14997;Q9UGP4;Q99750;Q96M53;P25791;O43711;Q5MJ70;O14641;P50221;P56279;Q00056;Q9P2R6;Q15468;P31276;Q8ND56;Q9ULH7;Q8WVJ9;Q13045;Q9BSQ5;Q16621;P14651;O75030;Q9UPW6;Q3ZCT1;Q7Z7C8;O00139;P78337;Q5TAB7;P23760;Q9HBH7;P49639;Q92499;Q0VDD7;Q9UN36;P09016;Q9H4S2;Q9NR15;Q15583;Q13155;Q07687;Q9Y2P7;Q8N1K5;Q9H3P2;O43186;O95238;P31314;Q13642;P14652;Q04724;Q9Y5J3;Q8N488;P58304;Q86U70;Q01860;O60869;P61962;Q8N6I1;Q04743;Q02577;P55771;P50222;Q16576;Q03060;P14653;Q7L190;Q6R327;Q9UMX1;Q99814;Q14689;Q16352;Q0VG99;Q53QV2;Q9Y255;Q01534;Q9UI36;P23409;Q13105;P54821;Q9NYP3;Q02078;Q7Z699;P31269;Q03112;P31260;Q9BXJ9}

7068 Pathogen[ P0C214] interacts with 178 human partners:{Q9UGP4;O00470;Q14997;Q14526;P51114;Q9UHL9;Q05195;P11308;P32243;O43365;O14786;P49639;Q8ND56;P22090;O60663;Q86M53;O95238;Q9Y5L5;Q8TD31;P78337;Q8IXK0;P31249;Q96KR1;Q9NRI5;Q7Z699;O43186;P31314;O00458;Q9Y255;Q99081;P13349;O00167;Q03112;Q16621;P0CW01;Q9BSQ5;O15266;Q16587;Q9Y5J3;Q00994;Q9HBH7;Q16352;Q9Y295;Q8N9N5;P61962;Q14689;Q9NZI5;P15172;Q9P2R6;Q7Z7C8;P11831;Q2M1K9;Q63HK5;Q53H80;Q02386;P17482;A0MZ66;P62701;Q0VDD7;O75030;O00139;Q04724;Q9NYP3;Q9Y266;Q99750;Q8N6I1;Q9P2T0;P0CV99;Q9H3C7;P14651;Q5VTD9;O43248;Q9NZP6;Q01534;O95257;Q53QV2;Q02078;Q5TAB7;Q13642;Q99966;Q9UQB3;Q14814;Q9H1B4;Q13045;Q9BUP3;Q6R327;Q07687;P41134;P25791;Q8N488;Q86U70;Q96D98;O14641;O95376;P14653;Q9BX40;Q15468;P50222;Q9UNS1;Q16576;P0CW00;Q9BXJ9;Q5VZL5;P07093;Q99504;Q93009;Q96AQ6;Q14160;Q9UI36;Q6ZNA4;Q96NB3;Q5TAP6;P39880;Q92499;Q8WVJ9;O75474;Q16534;P58340;Q02577;Q8N196;Q03060;Q9UM82;P17036;Q99814;P09629;Q5BJF6;Q0D2K3;O96004;Q5MJ70;P50221;A6NKD9;Q9UPW6;P08151;O14727;P48380;P78545;Q5H9L4;Q9H3P2;Q9ULH7;Q92988;P52594;P60174;O60869;Q9NXX1;Q3ZCT1;Q9Y3R5;Q86YF9;P49454;Q8IUD2;P54845;Q5D1E8;O43255;Q9NQ87;Q9NYF0;Q7L190;Q8N1K5;Q15699;Q9UN36;Q9UMX1;P56279;Q99583;Q9Y2P7;Q01860;P35712;Q13105;P35548;Q8HWS3;P31749;Q13155;P31276;P0CV98;P23760;Q6S96;A6NKD2;P55771;P31269;O60481;Q99502}

7069 Pathogen[ P03346] interacts with 364 human partners:{A6NKD9;P31271;Q99081;P85037;Q6S96;Q8NEA9;Q9NPC8;Q9NRI5;Q9BZE0;P31249;P54821;P47902;P17097;P56279;Q9UHL9;O75603;P49639;Q16621;P15863;Q9NZR4;Q01534;P35453;Q9Y4Z2;O75364;P31260;Q9NRZ9;Q16352;Q93009;Q8ND56;Q02078;Q02386;P52954;Q86U70;Q86UUS;P31268;Q9Y657;Q99811;Q6QHK4;Q9Y283;O95677;Q99966;Q9UGP4;Q9UD57;P50221;Q96PU8;Q14814;P78337;Q99598;O15522;Q7RTS3;Q01538;Q16626;Q96KR1;Q9UPW6;Q5TAP6;Q9Y2P7;Q9H2W2;Q9H2Z4;Q693B1;Q5MJ70;Q05925;Q9NU63;P78415;Q3B8N5;Q03828;P35548;Q02535;O00167;Q9HD90;P11831;P31270;O95376;Q0VG99;O00458;Q9NP62;Q9BUP3;Q8NFW5;Q14774;P0CB47;Q9UM82;Q9HBH7;Q99784;P13349;O43711;Q96M53;P54845;O60393;Q9BX40;Q9UBI9;Q96AQ6;Q96HZ4;O00139;Q99626;Q00056;Q2M1K9;Q7Z7C8;Q9UIU6;Q15583;Q9H4S2;P48380;Q8IYA7;O75474;P20264;Q8IUD2;P15172;P41225;P23760;Q9UL68;Q9H3P2;P19622;Q9UN36;Q04743;Q92858;Q99426;P31276;O43255;P23409;Q9ULH7;Q9HBG6;O14682;Q53H80;Q8TAK6;Q6W0C5;Q9NXX1;O95238;Q13835;Q9P2T0;Q92886;Q96JY9;P56177;P60174;Q9H4W6;Q92826;Q04741;Q63HK5;P15173;Q9BPY8;P23759;Q96QS3;P14652;O43186;Q9NP08;P58340;Q9NZI5;P58304;A6NJT0;Q02575;Q99502;Q9UBX0;Q9BYE0;Q14586;Q00994;O60902;O75030;O43364;P14653;O00192;P31269;A2RU54;P13378;P17483;Q9Y5J3;P31274;Q9H1B4;Q01860;Q9NZP6;Q96SQ7;P20719;Q8TD31;P61962;P78426;Q86SE8;Q9Y255;Q9BT04;Q9BQW3;Q92766;Q86YF9;Q86W54;Q9UB3;Q9HB31;O60663;Q14526;O96004;P17036;O43364;Q13155;Q9Y266;O43365;Q15699;Q9UL49;P28358;P50222;Q9Y3R5;Q92499;Q06710;Q9P215;Q8HWS3;P11308;P25791;P31275;Q9Y295;P17542;O60481;O95231;Q96D98;O15266;O14641;O95096;P31749;P17481;O95863;Q96GD3;Q8N5Y2;P49640;Q8NEA9;O60479;P41134;Q9P2R6;O95076;Q03112;Q9C0C7;Q04724;P52594;O00470;P28356;O60447;P09017;Q16534;Q8WVJ9;Q9NZC4;Q02548;Q99750;Q5JUK2;Q9629;Q9BXL5;Q9BXJ9;P5D1E8;Q8N6I1;Q9NQ87;P31273;Q8IUQ4;Q15475;O14627;Q99814;Q16576;Q8N9N5;Q9Y5R6;Q13105;Q6ZNA4;Q8N196;Q53QV2;A6NI15;P98177;Q5BJF6;P09016;Q07820;Q96EK5;Q3ZCT1;Q05195;Q5VTD9;Q13642;Q14190;P783

64;P09630;A6NNA5;Q9BUZ4;O95475;P31267;Q9NYF0;Q13516;P10072;P62701;P35712;P32242;Q9NY  
P3;Q96NB3;A6NMT0;A8MTQ0;Q0VDD7;O43763;Q7L190;Q99929;Q9GZZ0;Q99593;Q5XKR4;Q8TBZ2;Q149  
97;Q9UH73;Q03060;P56178;P22090;Q0D2K3;P31314;Q14160;Q5H9L4;Q5TAB7;Q8IXK0;P51114;Q130  
45;Q9NQL9;Q7Z699;O75398;Q99583;P39880;Q95257;Q8N488;O60869;Q9Y458;P78545;Q9HAK2;Q9Y6  
R0;Q6R327;Q9UN36;Q9UI36;Q9H9S0;Q9NQZ2;Q16587;Q13562;Q99504;Q13394;Q15468;P32243;Q9H3  
C7;Q75386;P0C2W1;Q8N1K5;Q8WUQ7;Q9NQZ3;Q5BKK8;P56915;Q9UMX1;Q02577;O14727;O95343;Q96N  
K8;Q9UIW0;P53539;P09067;P17509;Q9Y586;Q00444;O43248;Q96IK5;O14786;P49454;Q9UJC3;P146  
51;P35452;P17482;Q14689;Q9HCC6;Q8N100;Q68CQ4;Q9UBP0;Q8NHV9;Q9BSQ5;Q9HBU1;Q9NUK0;P081  
51;Q92988;Q99581;P55771;Q9UJU5;Q9H2A3}

7070

Pathogen[ Q85601] interacts with 208 human

partners: {Q8IXK0;Q9P2R6;Q8N196;P49454;P17097;Q9UHL9;O00458;P49639;P09629;Q8N5Y2;P081  
51;P60174;P11831;Q02078;O60481;Q14586;O43316;P31749;P41134;Q9Y4Z2;Q14689;Q01538;Q930  
09;Q9UPW6;P61962;Q14202;P15172;Q04724;Q9UN36;A6NNA5;O75398;P17036;Q86U70;Q02386;Q0VG  
99;Q9UBP0;Q16621;P56279;O95677;P13349;P54845;P14653;Q9Y283;O43248;Q7Z7C8;Q13155;Q2M1  
K9;Q86SE8;Q99966;P0CW01;Q9H3C7;O75030;Q5H9L4;Q14814;Q0VDD7;Q05195;Q03112;O60663;Q015  
34;Q9NYF0;Q95789;P78545;Q9H3P2;Q9ULH7;Q96KR1;Q99504;O43364;Q13045;Q13642;P35712;Q155  
83;P0CV98;P62701;Q99814;Q5BJF6;P78337;P52594;Q92499;Q86VD1;O14786;O96004;Q9H1B4;P0CW  
00;Q9NZP6;O75474;Q9UM82;P55771;Q13562;Q16587;Q86W54;Q8N6I1;Q53H80;Q9UQB3;Q14526;Q9Y2  
66;P31260;P23409;P50222;P25791;Q9Y295;Q9UBX0;P78364;Q96D98;Q8N1K5;O15266;O14641;Q9Y4  
I5;P58340;Q15699;Q16576;Q99502;Q6SJ96;Q9UI36;O60447;Q02577;Q99750;Q9BXJ9;P35548;Q9NQ  
87;O95257;Q14160;Q9HBH7;O00470;Q8N9N5;O43711;Q53QV2;Q9BX40;P58304;Q3ZCT1;P32243;Q995  
83;Q0D2K3;P31249;O95376;A6NKD9;P31271;P10072;Q9UGP4;Q9P2T0;Q6ZNA4;P31274;Q9NRI5;A6NK  
D2;Q5VTD9;Q7L190;Q16534;Q00994;P50221;Q99081;P31314;P14651;Q96M53;Q7Z699;Q9Y3R5;Q5TA  
B7;P22090;O43365;Q16352;P39880;P31276;Q96NB3;Q9Y2P7;Q8N488;Q9BQW3;O60869;P48380;Q9NX  
R1;Q9BT04;P07093;P17677;O43255;O00167;Q9BSQ5;Q63HK5;Q7Z7L9;P0CV99;Q8IUD2;Q9UMX1;Q9GZ  
M8;Q9BUP3;Q9NZI5;Q9H4S2;Q9NU63;P53539;P31269;Q01860;Q03060;Q96AQ6;Q00139;Q00444;Q131  
05;Q07687;Q8HWS3;P23760;P11308;Q8TD31;Q9Y5J3;Q86YF9;Q5D1E8;Q8WVJ9;P51114;P17482;Q5VZ  
L5;O95238;Q8ND56;Q5MJ70;Q92988;Q9UNS1}

7071

Pathogen[ P14079] interacts with 245 human

partners: {P31751;Q9NY59;Q6R327;Q8WYA0;Q9UPW6;Q8WUH1;Q9HAK2;P08151;Q8NEM7;Q14004;Q53H  
80;Q5MJ70;Q5D1E8;P17677;O43364;Q02078;Q99814;Q06413;Q8N196;Q99502;Q8IZ21;P10072;Q9UJ  
C3;Q7Z7L9;P78337;P13349;Q01534;Q5H9L4;Q9Y255;O60481;Q9UM82;Q16517;P23409;Q99581;O435  
97;Q8ND56;Q96M53;Q95789;Q9NP84;Q9NR12;Q14641;Q9BXJ9;Q9Y586;P39880;Q15583;P55771;Q138  
35;Q86U70;A0MZ66;Q15699;Q03060;Q96NB3;P48380;Q9UQB3;Q01538;Q8IV56;Q9H3P2;P35712;Q9UM  
X1;Q8WVJ9;Q00994;Q6ZNA4;Q99966;P58304;Q9Y266;A6NC42;O96004;A6NKD9;P52594;Q9P2T0;Q9NR  
I5;Q13105;Q13394;Q9Y5L5;Q13045;Q9Y4F9;Q96K83;Q9H1B4;O60869;Q9Y2P7;Q8IUD2;Q9P3C7;O001  
15;Q9P215;P31271;Q96BJ3;Q5TAP6;Q9NU63;P54845;Q9BUZ4;Q3Y452;P09629;Q16576;Q9Y4I5;P113  
08;Q86VV8;O96005;Q9BUP3;P22090;P31276;Q86UU5;Q9NZC4;P78364;Q14202;Q99583;Q9BSQ5;Q8HW  
S3;Q9H4W6;Q96D98;Q8N9N5;Q9BQW3;Q9Y6A4;Q7Z699;P31274;Q5BJF6;Q9UL49;Q14997;Q13642;Q3ZC  
T1;P17097;Q01860;Q5VTD9;Q9UBI9;Q0VDD7;Q8N5Y2;P20930;Q9UEE9;Q9ULH7;A6NGB9;O95238;O437  
11;Q96EK5;Q96PU9;Q14093;O60663;O15266;Q99426;Q9NQZ2;P31269;P25791;P48681;O00139;Q165  
87;Q2M1K9;Q9P2R6;Q68CQ4;Q7L190;Q9Y5J3;Q8IXK0;Q9HBH7;Q8N1H7;Q9NZP6;P35663;Q9NYP3;Q154  
68;Q96AQ6;P31249;Q14689;Q9NZI5;Q9UHL9;Q86VD1;Q9H3Y8;Q14586;O43365;Q9UI36;Q16621;P619  
62;Q8TD31;Q6SJ96;Q00444;Q9GZM8;Q8WUQ7;P32243;Q8WWZ3;Q04743;Q05195;Q16626;Q8N488;Q076  
87;Q14814;Q04724;Q9NUK0;O00458;O75293;Q9Y283;Q96KR1;Q86YF9;Q63HK5;Q92499;Q025  
77;A6NNA5;Q13155;Q8N1K5;Q2TAA8;Q99504;P78545;P41134;Q9BX40;P49454;Q86SH2;Q02386;Q995  
98;Q6W0C5;Q9BXL5;Q6UW49;P56279;Q9NQ87;Q99081;Q8IW03;O00167;Q96JY0;Q9NXR1;Q9Y3R5;O750  
30;P49639;Q5TAB7;Q16534;O75474;P28360;Q92988;O00470;Q9UN36;O95257;Q9UNS1;P62701;O431  
51;Q8N6I1;Q9BZE0;Q6IQ19;P50222;Q9UGP4;Q53QV2;Q9Y657;P50221;P14651;P58340;Q99750;Q5VZ  
L5;Q7Z5L4;Q9NYF0;Q9Y295;Q5T5P2;P23760;Q9BT04}

7072

Pathogen[ P03383] interacts with 154 human

partners: {Q0VDD7;Q9UNS1;Q9H1B4;Q02577;Q99504;O00470;P49454;Q9UHL9;O00458;Q5TAB7;Q152  
66;Q86UU5;P11831;Q16352;Q0D2K3;Q9BX40;P35712;Q9UPW6;Q8HWS3;Q9H3P2;Q9Y5L5;O00167;Q9Y2  
P7;Q14160;P32243;Q16626;Q8N6I1;P15172;P55771;Q8WVJ9;Q14526;Q07687;P58340;P50262;A6NK  
D9;Q86U70;Q9NRI5;Q9P2R6;Q9UL49;P31749;Q9Y295;P17482;Q96AQ6;Q5H9L4;P48380;P50222;Q5D1  
E8;O75474;Q9NQ87;P31276;O75030;O43365;Q15468;Q96KR1;Q6ZNA4;Q14814;Q01860;Q14997;Q9UN  
36;Q04724;P78337;Q8TD31;Q13155;Q9NZP6;P31249;Q9BXL5;Q53H80;Q9UQB3;O96004;Q03112;Q8N1  
K5;Q16621;P54845;Q9Y3R5;P49639;P25791;P11308;Q00994;Q8N9N5;Q9BXJ9;P35548;Q13105;Q96D  
98;Q8N488;O14641;Q53QV2;Q05195;P17036;O60663;Q9UGP4;Q6SJ96;O43711;Q9HBH7;Q99081;Q9UL  
H7;O95376;Q7L190;Q8ND56;P61962;O43255;Q5BJF6;P31269;Q9Y266;Q3ZCT1;P31314;Q9P2T0;Q8WU  
Q7;Q99583;Q96EK5;O95238;O43186;P39880;P23760;Q9NYF0;Q99750;Q9NYP3;Q96NB3;Q9BUP3;Q86Y  
F9;P78545;Q96M53;P50221;Q01534;P22090;Q13045;Q9NZI5;Q92499;P62701;Q2M1K9;O60481;O608  
69;Q8N196;Q96BJ3;P09629;Q8IUD2;Q13642;Q9UI36;Q15699;Q9UM82;Q9H3C7;Q16534;P56279;Q9BT  
04;Q9UMX1;Q92988;P52594;Q03060;O95257;Q16576;Q02078;P14651;Q9BSQ5;Q9UBI9;Q5MJ70}

7073

Pathogen[ P03410] interacts with 233 human

partners: {Q9Y2P7;Q14202;Q8WUQ7;Q96AQ6;O14786;Q9Y5J3;Q86VV8;P35712;Q9UI36;Q86SE8;P234  
09;Q96EK5;P11831;Q8IXK0;Q6ZNA4;Q03112;Q9UJC3;Q13394;P52594;Q14526;O95238;O00470;Q131  
55;P56279;A6NKD9;Q8TD31;Q9P2T0;P17482;O75293;A6NGB9;Q5TAB7;Q9H3P2;Q8WVJ9;O43597;Q96N  
B3;Q00139;O96004;P31274;Q9NXR1;P31276;Q9P2R6;Q7Z699;O96005;Q9GZM8;Q8IZ21;Q99814;O604  
81;Q99502;Q01860;Q16517;P54845;P25791;Q9ULH7;Q9Y4I5;Q14997;P09629;Q9NQZ2;Q9NQ87;Q96K  
R1;P50222;Q8N6I1;P50221;O15266;Q9Y255;Q9UGP4;Q7L190;P14651;Q9UHL9;Q14814;Q16352;P785  
45;Q9UL49;Q8N9N5;O75030;O75474;Q15468;Q9UBI9;Q9Y586;Q01534;P31249;Q6UW49;Q04724;Q9NZ  
I5;Q14689;Q2M1K9;P41134;P31749;Q03060;Q9UEE9;A6NNA5;Q0VDD7;Q9Y283;Q13835;Q8TCX1;P313  
14;Q14160;P22090;Q13045;Q9UPW6;Q9Y295;A0MZ66;Q5TAP6;P62701;Q0D2K3;Q17036;Q8N1K5;O606  
63;Q16576;Q96BJ3;P49454;P58340;O95789;P10072;P20930;Q00994;Q99081;Q15583;Q9BT04;Q929  
88;Q5H9L4;Q07687;P35548;Q86YF9;Q53QV2;Q6IQ19;Q8IUD2;Q9UM82;Q01538;Q9UN36;Q02386;P356

63;Q6SJ96;Q92499;Q16621;P04553;Q9BQW3;Q5D1E8;Q96K83;Q5VZL5;Q9HBH7;Q9H3C7;Q86U70;Q8WY  
A0;P31269;Q9P215;P48380;Q99583;Q68CQ4;Q9BUP3;O60447;Q9BXL5;Q53H80;Q8N196;O43364;Q156  
99;P61962;P55771;Q5BJF6;Q8NEM7;Q9H1B4;Q14093;Q99504;Q9NYF0;P13349;Q13642;Q8N488;Q995  
98;P39880;P49639;O43151;Q6R327;Q86SH2;P51114;Q9NYP3;Q8IV56;Q9NRI5;P32243;Q14586;Q8ND  
56;Q9UNS1;O60869;Q3Y452;O00167;Q7Z7L9;Q86VD1;Q9HBG6;Q02577;P17677;Q02078;Q16534;Q9UQ  
B3;O00115;P23760;Q9Y266;Q9Y657;O43711;Q5MJ70;Q9Y5L5;Q63HK5;Q3ZCT1;Q13105;Q9H4W6;Q9UQ  
57;Q9NP84;Q16626;P11308;Q86UU5;Q5VTD9;Q99426;P78364;Q04743;Q8N5Y2;Q9NU63;Q9UMX1;Q6W0  
C5;Q96M53;Q99750;O43365;Q96D98;A6NC42;O00458;Q5T5P2;Q9BSQ5;Q9NZP6;P17097;P78337;Q9BX  
40;Q05195;Q8HWS3;O14641;Q9BXJ9;Q16587;Q99966}

7074 Pathogen[ P14075] interacts with 162 human

partners: {Q8N196;Q96AQ6;Q16576;Q9UHL9;Q9BUP3;O60663;Q16352;Q02577;Q86U70;Q9Y266;Q131  
55;Q8N9N5;P22090;Q99504;Q13105;P17482;P78337;Q14526;O75030;Q96KR1;Q8TD31;Q9Y295;Q9BX  
L5;Q8N488;Q5MJ70;Q14160;Q9UM82;P11831;O60481;Q9NYP3;Q9BXJ9;P78545;O00470;Q0D2K3;Q9P2  
R6;Q01860;Q9UGP4;Q9BX40;P48380;Q5TAB7;P35548;P15172;Q00994;P17036;O43186;O95257;Q53H  
80;Q5VZL5;P31249;Q9BT04;Q92988;Q7Z7C8;Q8IUD2;O00167;Q9NQ87;O43365;Q9NZP6;Q13642;Q051  
95;Q6SJ96;Q9UBI9;P39880;Q8WVJ9;Q9NR15;Q07687;Q9Y255;P56279;P31269;O43255;Q9UQB3;Q96B  
J3;Q86UU5;O96004;P09629;Q92499;P25791;P31749;Q6ZNA4;O00139;Q5BJF6;Q9UPW6;Q96M53;Q96D  
98;Q8N1K5;O14641;Q9HBH7;P54845;Q6IQ19;P50221;Q9UL49;P35712;P55771;Q6R327;Q8N6I1;Q9UN  
36;O75474;Q99750;P11308;O00458;Q01534;Q9Y5L5;Q3ZCT1;O43711;Q5D1E8;Q03112;Q02078;Q9Y3  
R5;Q8IV56;Q8NEM7;Q5H9L4;Q14997;P52594;Q9UEE9;Q9P2T0;Q7L190;Q9NZI5;Q9BSQ5;Q9UNS1;Q9UI  
36;O95376;Q15468;Q15699;P31314;Q9Y2P7;P31276;A6NKD9;Q03060;Q04724;Q9H3C7;Q53QV2;Q3Y4  
52;Q99502;O15266;Q9H3P2;P61962;P62701;Q16621;Q9H1B4;P23760;Q99583;O60869;Q2M1K9;Q8WU  
Q7;Q99081;Q9NYF0;P49454;Q16626;P32243;Q14814;Q86YF9;Q9UMX1;Q0VDD7;Q8HWS3;P50222;Q8ND  
56;Q96NB3;Q13045;Q9ULH7;Q96EK5;P58340;Q5TAP6;Q16534}

7075 Pathogen[ P0C206] interacts with 282 human

partners: {Q02386;Q8HWS3;Q9UNS1;O75293;Q8IW03;Q86VD1;Q07687;A6NKD9;Q9NQ87;Q9BZE0;Q9BX  
L5;P58340;Q03060;Q15468;Q05195;O60481;Q00444;Q9Y295;Q9UHL9;Q8N9N5;Q0VDD7;O00167;Q9C0  
C7;O43711;P31269;P31314;Q5VZL5;P31749;O60393;Q01538;P17677;Q14997;Q99504;Q9BUP3;Q9NZ  
I5;P60174;Q9UBP0;Q5BJF6;O43255;Q02078;Q14586;O15266;Q8ND56;A6NNA5;Q8N6I1;O75474;O953  
76;Q9BX40;P78364;Q13642;O43365;Q04743;Q9Y5R6;P09067;O43151;O75030;Q9UMX1;Q9Y5L5;Q86Y  
F9;Q9UGP4;Q7L190;Q9BT04;Q01860;Q9Y422;A6NC42;Q8TD31;P54821;Q8N1K5;Q6ZNA4;P49639;Q995  
83;Q99598;O00470;Q02548;Q9Y4I5;Q13045;Q9UEE9;Q8IUQ4;Q13394;Q9BSQ5;P50221;Q96PU8;Q9UL  
49;P14651;Q92988;Q8N196;Q0D2K3;P23409;Q9P215;Q8IUD2;P31268;P17483;P10072;Q93009;P494  
54;P48380;P55771;Q8WYA0;Q9Y3R5;P54845;O00458;Q15699;Q9Y586;P0CV98;O95238;Q00994;Q8WV  
J9;Q96HZ4;Q9GZM8;Q8WUQ7;P50461;P11308;Q9Y283;Q9P2R6;O14786;O96004;Q9BYE0;Q16587;P146  
53;Q01534;Q63HK5;P41134;P14652;Q9UM82;Q99426;P51114;A6NKD2;P78337;O43248;Q9UBZ4;P496  
40;O60447;Q14202;Q96NB3;Q9H4S2;Q6R327;Q99581;Q03112;Q693B1;Q99081;O95257;Q13835;P322  
43;Q9Y255;P17482;P62701;Q9Y5J3;P13349;Q8N488;Q96KR1;Q53QV2;Q6IQ19;Q14160;Q96B3;P355  
48;Q96EK5;P22090;Q9UPW6;Q96AQ6;Q5D1E8;Q3ZCT1;Q16626;Q9NR15;P53539;Q5H9L4;P78545;Q9H1  
B4;Q16534;Q86SE8;A0MZ66;Q9HBH7;O43597;Q9H3P2;O00139;P23760;P25791;Q9Y657;P61962;Q2M1  
K9;O60869;Q04724;Q13562;Q9Y2P7;Q5TAB7;P11831;Q7Z7L9;Q13422;Q99966;Q86W54;Q8IV56;Q995  
02;Q6SJ96;Q8IXK0;Q8WUH1;A6NGB9;Q9BQW3;Q96D98;Q13155;Q5T5P2;Q16576;P35712;P31271;Q166  
21;Q9NRZ9;Q68CQ4;Q9NYF0;Q3Y452;P17097;P15172;Q5VTD9;Q9NXX1;Q9H9S0;Q86U70;O43364;Q148  
14;P31274;O60663;Q7Z7C8;Q6W0C5;P35663;Q9P2T0;P0CW01;Q9NZP6;Q9UN36;O75398;Q9UJC3;Q9NZ  
C4;Q99814;P39880;Q96K83;P09629;P56279;Q14689;Q86UU5;Q14526;P28356;Q16532;Q02577;P207  
19;P08151;Q9NUK0;Q9NQZ2;Q96M53;Q13105;P31249;Q9H4W6;Q9UBX0;Q92499;Q5BKX8;Q9BXJ9;Q9H3  
C7;Q53H80;Q9HAK2;Q9UBI9;Q9NU63;Q9UI36;Q9UQB3;P09016;Q0VG99;Q9Y266;O43763;Q99750;Q8N5  
Y2;O95789;Q9NYP3;Q7Z699;Q5TAP6;O43316;Q5MJ70;O95677;P58304;Q9NP62;P0CW00;Q9ULH7;P312  
60;P0CV99;P56177;Q15583;P17036;P31276;Q9H2A3;P50222}

7076 Pathogen[ P03363] interacts with 331 human

partners: {O95376;Q5BJF6;Q92886;Q16587;P56179;Q3Y452;Q8TAK6;Q86U70;Q53QV2;Q5VTD9;Q156  
99;Q96M53;Q6SJ96;Q15266;P31273;Q9UIW0;Q13105;P35453;Q5T5P2;Q8NFW5;P49454;Q8N5Y2;Q995  
92;Q9Y4Z2;Q9UHL9;Q9BUP3;P19622;Q13835;Q92766;P47902;Q9NZR4;P78415;A6NC42;Q9NYP3;P090  
67;P55771;Q0VDD7;Q9Y5J3;P31274;Q16352;Q99598;Q05474;Q15468;O60481;Q5JUK2;A6NKD9;Q023  
86;O14682;Q1Z3Z4;Q3ZCT1;Q99626;Q14526;Q13516;P56177;Q9UMX1;O14786;P08151;P0CBA7;P535  
39;Q7L190;P31267;O43365;A8MTQ0;Q9Y3R5;P58340;Q8TBZ2;Q0VG99;P14651;Q8NEM7;Q03112;O606  
63;Q9BXL5;P56279;Q99929;O43763;Q9Y266;P28356;P23760;Q9NQ87;Q99750;Q9UBI9;P20719;Q7RT  
S3;O95257;P31271;Q0D2K3;Q14093;Q14160;Q9HBH7;Q9H2W2;Q13045;Q96HZ4;Q9P215;P17481;O604  
47;Q8N9N5;Q9UN36;O60902;O94967;Q9Y657;Q9Y295;Q8N196;O43316;Q16621;P58304;Q8N488;Q8N1  
K5;Q9NYF0;P35548;Q8IXK0;P32243;O60479;Q9BSQ5;O95231;Q04724;Q8N302;O43248;P49639;Q9Y5  
R6;Q14689;P17483;Q9H4S2;Q7L576;P13349;P17509;P31249;Q96PU8;P54845;Q9BYE0;Q6ZNA4;Q9BX  
40;P14653;P50221;Q13155;Q8N9W6;P25791;P10072;Q9UGP4;Q9UD57;Q2M1K9;Q9P2T0;P22090;Q929  
04;Q9C0C7;P13378;P11831;Q16576;Q8WUQ7;Q9BPY8;Q7Z699;P20264;Q9UI36;P28358;Q00444;P569  
15;P11308;O95238;Q9GZZ0;O75030;Q15717;Q99426;Q14814;A6NJT0;Q9NZC4;P78545;Q86UU5;P317  
49;P32242;Q9H3P2;Q96JY0;Q6IQ19;P14652;Q9NP08;O43186;P31260;A6NMT0;Q7Z7C8;Q96AQ6;P170  
36;Q9ULH7;Q9HBG6;Q5MJ70;P41134;Q99504;Q9UNS1;P31268;Q5TAP6;P31314;Q9HCC6;Q9NZI5;O960  
04;Q9H2Z4;Q92499;Q00056;Q92826;Q9BT04;O00470;Q96EK5;Q5TAB7;Q05925;Q15583;Q9BQW3;Q5XK  
R4;Q9Y283;P51114;P54821;Q96NK8;P23759;Q00994;Q9UM82;Q9HB31;Q16626;Q99814;P09016;P312  
76;Q68CQ4;P50222;O60869;Q92988;P35712;O60393;Q8NEA9;Q01534;O43711;Q3B8N5;Q8ND56;O950  
76;Q05195;P17482;P23409;O00167;P31269;Q63HK5;Q07820;Q9NR15;Q9C056;O75398;Q7Z5H3;Q5BK  
X8;Q96QS3;Q9H3C7;Q04741;Q5D1E8;A2RU54;Q13642;O75386;Q96J94;Q99581;Q9C004;Q9NZP6;Q9NQ  
Z3;P09629;P61962;P35452;Q96SQ7;O95343;Q02548;Q8IYA7;Q86SE8;O43364;Q03828;P52594;Q990  
81;O00192;Q86YF9;Q9BUZ4;P48380;Q96KR1;Q9NXX1;Q9Y6R0;O00139;O43255;O95475;Q9P2R6;P096  
30;Q96D98;Q99811;Q86W54;Q8N6I1;O14641;Q8NHV9;Q16534;Q9NR12;Q9UQB3;P09017;Q9UJ05;O155  
22;P39880;Q53H80;Q9H9S0;Q07687;Q8HWS3;P78337;P15172;Q5H9L4;Q8IUD2;Q9UPW6;Q96NB3;Q8TD  
31;Q9UL49;Q99583;Q9NPC8;Q8WVJ9;Q86SH2;A6NNA5;Q9BZE0;P62701;Q01860;Q9BXJ9;Q6R327;P312

75;P35663;Q03060;Q9Y5L5;O14627;Q9H3U1;Q693B1;Q9H1B4;Q9HBU1;O95789;Q04743;Q9NUK0;Q6W0  
C5;Q02577;Q9UBX0;Q9H2A3;P49640;Q6QHK4;Q9Y2P7;Q9UJC3;Q02078}

7077 [Cluster 644]GO:0060789+P biological\_process [name] hair follicle placode formation  
[def] "The developmental process in which a hair placode forms. An hair follicle placode  
is a thickening of the ectoderm that will give rise to the hair follicle bud." [GOC

7078 Pathogen[ Q2Q067] interacts with 3 human partners:{Q13547;Q92769;P60953}  
7079 Pathogen[ P0C214] interacts with 3 human partners:{Q13547;P60953;Q92769}  
7080 Pathogen[ P03346] interacts with 3 human partners:{P60953;Q92769;Q13547}  
7081 Pathogen[ Q85601] interacts with 3 human partners:{Q92769;P60953;Q13547}  
7082 Pathogen[ P14079] interacts with 1 human partners:{Q92769}  
7083 Pathogen[ P03383] interacts with 3 human partners:{P60953;Q92769;Q13547}  
7084 Pathogen[ P03410] interacts with 3 human partners:{Q92769;P60953;Q13547}  
7085 Pathogen[ P14075] interacts with 3 human partners:{P60953;Q13547;Q92769}  
7086 Pathogen[ P0C206] interacts with 3 human partners:{Q92769;Q13547;P60953}  
7087 Pathogen[ P03363] interacts with 2 human partners:{Q13547;P60953}

7088 [Cluster 645]GO:0097191+P biological\_process [name] extrinsic apoptotic signaling  
pathway [def] "A series of molecular signals in which a signal is conveyed from the cell  
surface to trigger the apoptotic death of a cell. The pathway starts with either a  
ligand binding to a cell surface receptor, or a ligand being withdrawn from a cell  
surface receptor (e.g. in the case of signaling by dependence receptors), and ends when  
the execution phase of apoptosis is triggered." [GOC

7089 Pathogen[ Q2Q067] interacts with 3 human partners:{Q13158;Q14790;Q15628}  
7090 Pathogen[ P0C214] interacts with 5 human  
partners:{Q15628;Q92934;Q13158;Q13015;Q14790}  
7091 Pathogen[ P03346] interacts with 4 human partners:{Q13158;Q13015;Q15628;Q14790}  
7092 Pathogen[ Q85601] interacts with 4 human partners:{Q13158;Q14790;Q13015;Q15628}  
7093 Pathogen[ P14079] interacts with 5 human  
partners:{Q14790;Q92934;Q13158;Q13015;Q15628}  
7094 Pathogen[ P03383] interacts with 3 human partners:{Q13158;Q13015;Q15628}  
7095 Pathogen[ P03410] interacts with 4 human partners:{Q13015;Q92934;Q13158;Q15628}  
7096 Pathogen[ P14075] interacts with 3 human partners:{Q13015;Q13158;Q15628}  
7097 Pathogen[ P0C206] interacts with 5 human  
partners:{Q13158;Q92934;Q13015;Q14790;Q15628}  
7098 Pathogen[ P03363] interacts with 3 human partners:{Q13015;Q13158;Q15628}

7099 [Cluster 646]GO:0008584+P biological\_process [name] male gonad development [def]  
"The process whose specific outcome is the progression of the male gonad over time, from  
its formation to the mature structure." [GOC

7100 Pathogen[ Q2Q067] interacts with 16 human  
partners:{Q9HBE1;O75534;Q9UMX3;Q13772;Q9Y5R5;P15976;O60356;Q16626;Q92754;Q13495;Q8IY  
F3;Q14865;O60248;P16989;Q5T230;O15360}

7101 Pathogen[ P0C214] interacts with 15 human  
partners:{P16989;O95633;Q14865;Q13772;Q9HBE1;Q5T230;Q92754;Q9UMX3;O60356;O15360;O755  
34;Q8IYF3;O60248;Q13495;Q9Y5R5}

7102 Pathogen[ P03346] interacts with 25 human  
partners:{Q16626;O60248;P07992;O15360;O75534;Q9NQ69;Q8IYF3;P16989;Q9Y5R5;Q92754;Q5T2  
30;P51843;Q92527;A6NDE4;P15976;Q9Y5R6;Q13495;Q14865;Q9HBE1;Q96MM3;O60356;Q9UMX3;Q132  
85;Q13772;O95633}

7103 Pathogen[ Q85601] interacts with 15 human  
partners:{Q5T230;Q13495;Q92754;P15976;Q8IYF3;O75534;Q9UMX3;O60248;Q13772;Q14865;O153  
60;O60356;Q9Y5R5;P16989;Q9HBE1}

7104 Pathogen[ P14079] interacts with 18 human  
partners:{Q13772;Q13323;Q5T230;Q9Y5R5;Q14865;P15976;P16989;O60248;O75534;Q9UMX3;Q927  
54;Q16626;O60356;O15360;Q9HBE1;Q8IYF3;P07992;Q13495}

7105 Pathogen[ P03383] interacts with 14 human  
partners:{P16989;O75534;Q16626;Q9HBE1;O60248;Q9Y5R5;Q9UMX3;Q13495;Q8IYF3;Q92754;Q5T2  
30;O15360;Q13772;O60356}

7106 Pathogen[ P03410] interacts with 17 human  
partners:{Q13772;Q13495;Q5T230;P16989;P07992;O75534;Q9UMX3;O60356;O15360;O60248;Q166  
26;Q8IYF3;Q14865;P15976;Q92754;Q9HBE1;Q13323}

7107 Pathogen[ P14075] interacts with 14 human  
partners:{O15360;Q9Y5R5;P16989;O60248;Q13495;Q9UMX3;Q92754;O60356;Q5T230;Q13772;O755  
34;Q16626;Q8IYF3;Q9HBE1}

7108 Pathogen[ P0C206] interacts with 20 human  
partners:{O15360;Q96MM3;Q9Y5R6;O95633;Q9HBE1;Q9UMX3;P15976;Q13495;P07992;O75534;Q927  
54;O60356;O60248;P16989;Q9Y5R5;Q16626;Q5T230;Q8IYF3;Q13772;Q14865}

7109 Pathogen[ P03363] interacts with 15 human  
partners:{Q14865;O15360;O60356;Q96MM3;Q9Y5R6;Q13495;Q9Y5R5;O75534;Q5T230;Q16626;A6ND  
E4;P16989;O60248;Q9UMX3;Q92754}

7110 [Cluster 647]GO:0048387+P biological\_process [name] negative regulation of retinoic  
acid receptor signaling pathway [def] "Any process that stops, prevents, or reduces the  
frequency, rate or extent of retinoic acid receptor signaling pathway activity." [GOC

7111 Pathogen[ Q2Q067] interacts with 11 human  
partners:{Q15910;O95521;P27797;Q5VVM6;Q5VVM5;Q5SWL7;P78395;Q15583;O60810;O60809;Q8IX  
J9}

7112 Pathogen[ P0C214] interacts with 16 human  
partners:{Q5TYX0;Q5SWL7;A6NGN4;Q15910;P78395;O60813;O60810;Q5VVM6;Q5VTA0;Q8IXJ9;P277

97;Q5VWM5;Q5SWL8;O95521;Q5VXH4;Q5VWM1}

7113 Pathogen[ P03346] interacts with 15 human  
partners: {Q5VWM5;Q15583;O15090;O60810;O60809;Q5VTA0;P78395;Q15910;P27797;Q8IXJ9;Q5SWL8;O95521;Q5VWM1;Q5VWM6;Q5SWL7}

7114 Pathogen[ Q85601] interacts with 17 human  
partners: {Q5VTA0;O60813;O60810;Q8IXJ9;Q15583;P27797;Q5SWL7;Q5VXH4;Q15910;Q5TYX0;Q5VWM5;Q5SWL8;Q5VWM1;Q5VWM6;P78395;A6NGN4;Q5VT98}

7115 Pathogen[ P14079] interacts with 27 human  
partners: {O60811;A3QJZ6;Q8IXJ9;Q5VXH5;Q15583;Q5SWL7;Q5VWM3;Q5VT98;A6NGN4;Q5TYX0;Q5VWM6;A6NMV5;O95521;Q5VWM5;O95522;Q5VTA0;O60809;Q5VWM4;Q5SWL8;O60813;P78395;Q15910;A6NMC2;Q5VXH4;Q5VWM1;O60810;Q5TYW8}

7116 Pathogen[ P03383] interacts with 13 human  
partners: {Q8IXJ9;Q5TYX0;O60809;O60810;Q5SWL7;P78395;O60813;Q5VXH4;Q15910;Q5VWM6;Q5VWM5;O95521;P27797}

7117 Pathogen[ P03410] interacts with 28 human  
partners: {Q5VWM4;Q5SWL7;Q5VXH5;Q5SWL8;A6NGN4;Q5TYW8;O60811;Q5VWM1;O60813;O60809;A3QJZ6;Q5VWM6;O95521;Q15583;Q5VWM5;O60810;P78395;Q8IXJ9;Q5VT98;Q5VXH4;Q15910;A6NMC2;O95522;A6NMV5;Q5VTA0;Q5TYX0;Q5VWM3;P27797}

7118 Pathogen[ P14075] interacts with 15 human  
partners: {Q5VWM1;Q5SWL7;Q8IXJ9;O60809;P78395;Q5VXH4;O60813;O95521;Q15910;P27797;Q5VWM5;Q5TYX0;O60810;Q5VWM6;Q5VTA0}

7119 Pathogen[ P0C206] interacts with 23 human  
partners: {A3QJZ6;P27797;Q5VXH4;P78395;Q5VWM5;O60813;Q5VWM3;Q15910;A6NGN4;Q5TYX0;Q5TYW8;A6NMV5;Q5VTA0;Q8IXJ9;Q5SWL7;Q5VT98;O95521;Q5VWM1;O60810;O60809;Q5VWM6;Q5SWL8;Q15583}

7120 Pathogen[ P03363] interacts with 14 human  
partners: {Q8IXJ9;O60809;Q15910;P78395;O60813;Q5SWL7;P27797;Q15583;Q5VWM6;Q5VXH4;O60810;O95521;Q5VWM5;Q5TYX0}

7121 [Cluster 648]GO:0060334+P biological\_process [name] regulation of interferon-gamma-mediated signaling pathway [def] "Any process that modulates the rate, frequency or extent of the series of molecular events generated as a consequence of interferon-gamma binding to a cell surface receptor." [GOC

7122 Pathogen[ Q2Q067] interacts with 5 human  
partners: {O75925;P08238;P63165;Q16543;P42224}

7123 Pathogen[ P0C214] interacts with 5 human  
partners: {Q16543;O75925;P42224;P63165;O15524}

7124 Pathogen[ P03346] interacts with 7 human  
partners: {O15524;O75925;P17706;P63165;Q16543;P42224;P08238}

7125 Pathogen[ Q85601] interacts with 5 human  
partners: {Q16543;P08238;P42224;P63165;O75925}

7126 Pathogen[ P14079] interacts with 5 human  
partners: {P63165;P08238;P42224;O75925;Q16543}

7127 Pathogen[ P03383] interacts with 4 human partners: {O75925;Q16543;P63165;P08238}

7128 Pathogen[ P03410] interacts with 4 human partners: {O75925;Q16543;P08238;P63165}

7129 Pathogen[ P14075] interacts with 4 human partners: {P63165;Q16543;O75925;P08238}

7130 Pathogen[ P0C206] interacts with 7 human  
partners: {O75925;Q16543;O15524;P08238;P63165;P42224;P17706}

7131 Pathogen[ P03363] interacts with 6 human  
partners: {P17706;O15524;Q16543;P63165;O75925;P08238}

7132 [Cluster 649]GO:0030853+P biological\_process [name] negative regulation of granulocyte differentiation [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of granulocyte differentiation." [GOC

7133 Pathogen[ Q2Q067] interacts with 2 human partners: {Q9HAZ2;Q01196}

7134 Pathogen[ P0C214] interacts with 1 human partners: {Q9HAZ2}

7135 Pathogen[ P03346] interacts with 2 human partners: {Q01196;Q9HAZ2}

7136 Pathogen[ Q85601] interacts with 1 human partners: {Q9HAZ2}

7137 Pathogen[ P14079] interacts with 1 human partners: {Q9HAZ2}

7138 Pathogen[ P03383] interacts with 1 human partners: {Q9HAZ2}

7139 Pathogen[ P03410] interacts with 1 human partners: {Q9HAZ2}

7140 Pathogen[ P14075] interacts with 1 human partners: {Q9HAZ2}

7141 Pathogen[ P0C206] interacts with 1 human partners: {Q9HAZ2}

7142 Pathogen[ P03363] interacts with 1 human partners: {Q9HAZ2}

7143 [Cluster 650]GO:0014074+P biological\_process [name] response to purine-containing compound [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a purine-containing compound stimulus." [CHEBI

7144 Pathogen[ Q2Q067] interacts with 1 human partners: {P24864}

7145 Pathogen[ P0C214] interacts with 1 human partners: {P24864}

7146 Pathogen[ P03346] interacts with 1 human partners: {P24864}

7147 Pathogen[ Q85601] interacts with 1 human partners: {P24864}

7148 Pathogen[ P14079] interacts with 1 human partners: {P24864}

7149 Pathogen[ P03383] interacts with 1 human partners: {P24864}

7150 Pathogen[ P03410] interacts with 1 human partners: {P24864}

7151 Pathogen[ P14075] interacts with 1 human partners: {P24864}

7152 Pathogen[ P0C206] interacts with 1 human partners: {P24864}

7153 Pathogen[ P03363] interacts with 1 human partners: {P24864}

- 7154 [Cluster 651]GO:0032088+P biological\_process [name] negative regulation of NF-kappaB transcription factor activity [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the activity of the transcription factor NF-kappaB." [GOC
- 7155 Pathogen[ Q2Q067] interacts with 29 human  
partners: {Q96J02;O75832;Q8WUQ7;Q93009;Q9BRU2;P19474;Q86VX2;Q7Z4G1;Q8TD23;P55345;Q99684;Q8TBK2;Q5TAX3;O15304;Q8WXC3;O14862;Q13114;Q9HCU9;Q96FA3;O94874;Q86VP1;P23396;Q9UBC1;P25963;P42771;Q86WI3;Q8N668;Q96EY1;Q8N2W9}
- 7156 Pathogen[ P0C214] interacts with 28 human  
partners: {Q96J02;P19474;Q9BRU2;P23396;Q8TD23;Q8N2W9;Q7Z4G1;Q86WI3;Q96FA3;Q8N668;P55345;O94874;O75832;Q86VP1;Q9HCU9;Q8WXC3;P42771;P25963;Q93009;Q13114;O14862;Q99684;Q86VX2;O15304;Q9UBC1;Q96EY1;Q8TBK2;Q5TAX3}
- 7157 Pathogen[ P03346] interacts with 32 human  
partners: {Q96J02;Q7Z4G1;Q93009;Q9BRU2;Q86VX2;Q8N668;P25963;Q9BYM8;Q8TD23;Q8TBK2;O15304;P42771;Q13114;Q96FA3;Q8WXC3;O75832;Q5TAX3;P51397;O94972;Q99684;Q86WI3;Q9HCU9;P55345;Q9UBC1;Q8N2W9;P23396;P19474;O94874;Q8WUQ7;O14862;Q86VP1;Q96EY1}
- 7158 Pathogen[ Q85601] interacts with 29 human  
partners: {Q96J02;Q86VP1;Q9BRU2;Q93009;Q8TBK2;Q8TD23;P23396;O75832;O15304;Q86WI3;Q8N2W9;Q13114;Q96FA3;Q5TAX3;Q9NQC7;Q9HCU9;Q8WXC3;O14862;Q8N668;P42771;Q99684;Q86VX2;Q7Z4G1;P19474;O94874;Q96EY1;P55345;Q9UBC1;P25963}
- 7159 Pathogen[ P14079] interacts with 30 human  
partners: {Q8N2W9;Q8TD23;Q8WXC3;P23396;Q43187;O15304;O94874;Q99684;O75832;Q9UBC1;Q7Z4G1;Q96FA3;Q86VX2;P55345;Q5TAX3;P19474;Q9BYM8;Q8N668;Q96J02;O14862;Q8WUQ7;Q9HCU9;Q8TBK2;P51397;Q86WI3;Q9NQC7;Q9BRU2;Q96EY1;Q13114;P42771}
- 7160 Pathogen[ P03383] interacts with 27 human  
partners: {P19474;O14862;Q9BRU2;O15304;Q8N668;Q8TD23;Q9UBC1;Q86VP1;Q8N2W9;Q5TAX3;O75832;Q9HCU9;Q8WXC3;P25963;P42771;Q99684;Q8WUQ7;Q86WI3;Q96FA3;P51397;Q86VX2;Q8TBK2;O94874;Q13114;P23396;Q96EY1;Q7Z4G1}
- 7161 Pathogen[ P03410] interacts with 27 human  
partners: {Q8WUQ7;P42771;Q5TAX3;Q96FA3;O14862;O43187;Q9BRU2;P23396;Q8N2W9;Q99684;Q8TBK2;Q86VX2;Q86VP1;Q86WI3;P51397;Q9UBC1;Q7Z4G1;Q8WXC3;O94874;Q8TD23;P25963;Q8N668;Q96EY1;O75832;Q13114;P55345;O15304}
- 7162 Pathogen[ P14075] interacts with 27 human  
partners: {Q9BRU2;Q86WI3;O94874;O75832;Q8TD23;P42771;Q7Z4G1;Q5TAX3;Q8N668;Q8N2W9;O15304;Q8TBK2;P25963;P51397;Q86VP1;Q9UBC1;Q99684;O14862;Q9HCU9;Q8WXC3;Q96FA3;P23396;P19474;Q13114;Q86VX2;Q8WUQ7;Q96EY1}
- 7163 Pathogen[ P0C206] interacts with 32 human  
partners: {Q9NQC7;Q9HCU9;O75832;Q9UBC1;Q7Z4G1;Q13114;O14862;Q86WI3;Q9BRU2;Q86VP1;P25963;Q8N2W9;Q96J02;P42771;Q93009;Q86VX2;Q8WUQ7;P23396;P51397;Q8TD23;O94874;Q5TAX3;Q99684;Q96FA3;Q8TBK2;P55345;Q8N668;Q9BYM8;Q96EY1;O15304;P19474;Q8WXC3}
- 7164 Pathogen[ P03363] interacts with 26 human  
partners: {Q86VP1;Q86VX2;Q99684;O94972;P23396;Q9HCU9;Q9BRU2;P25963;O15304;Q8TBK2;Q8N668;Q8WUQ7;Q96FA3;Q86WI3;P19474;Q8WXC3;Q5TAX3;O14862;Q8TD23;Q13114;Q7Z4G1;Q96EY1;Q8N2W9;O94874;Q9UBC1;P42771}
- 7165 [Cluster 652]GO:0006362+P biological\_process [name] transcription elongation from RNA polymerase I promoter [def] "The extension of an RNA molecule after transcription initiation and promoter clearance at an RNA polymerase I specific promoter by the addition of ribonucleotides catalyzed by RNA polymerase I." [GOC
- 7166 Pathogen[ Q2Q067] interacts with 17 human  
partners: {O95602;Q15573;P52434;Q13889;P32780;Q92759;Q9H9Y6;P51948;P50613;Q15572;P53803;Q53T94;P17480;Q9Y2S0;Q13888;O15160;P51946}
- 7167 Pathogen[ P0C214] interacts with 16 human  
partners: {P51946;Q15573;Q9H9Y6;P53803;P50613;Q9Y2S0;P51948;Q15572;P17480;P32780;O15160;O95602;Q13888;P52434;Q53T94;Q92759}
- 7168 Pathogen[ P03346] interacts with 16 human  
partners: {P52434;Q15573;Q13888;P53803;Q9H9Y6;Q53T94;Q13889;P17480;P51946;O15160;Q92759;O95602;P51948;P32780;Q9Y2S0;Q15572}
- 7169 Pathogen[ Q85601] interacts with 17 human  
partners: {P51946;P17480;O95602;Q13888;Q15573;P53803;Q9Y2S0;P51948;Q9H9Y6;Q15572;Q53T94;Q92759;P32780;P50613;P52434;P19447;O15160}
- 7170 Pathogen[ P14079] interacts with 18 human  
partners: {Q9Y2S0;Q15573;P51946;P52434;Q13889;P53803;Q15572;P50613;Q13888;P17480;O15160;Q92759;P32780;O95602;Q53T94;P19447;Q9H9Y6;P51948}
- 7171 Pathogen[ P03383] interacts with 14 human  
partners: {P53803;O95602;P51948;Q15572;Q13888;Q9H9Y6;P52434;P50613;P51946;Q92759;Q15573;P17480;P32780;Q53T94}
- 7172 Pathogen[ P03410] interacts with 18 human  
partners: {Q15572;Q13889;P51946;P50613;Q15573;O95602;P53803;P19447;Q9Y2S0;P51948;O15160;Q13888;P52434;Q53T94;P32780;Q92759;Q9H9Y6;P17480}
- 7173 Pathogen[ P14075] interacts with 15 human  
partners: {P17480;Q15572;Q92759;Q53T94;P50613;Q13889;Q15573;Q9H9Y6;P51946;P32780;O95602;P52434;P51948;P53803;Q13888}
- 7174 Pathogen[ P0C206] interacts with 18 human  
partners: {Q53T94;O95602;Q15572;P19447;P53803;Q13888;P50613;Q9Y2S0;Q92759;Q15573;P32780;Q13889;Q9H9Y6;P17480;P52434;O15160;P51946;P51948}
- 7175 Pathogen[ P03363] interacts with 14 human  
partners: {Q9H9Y6;Q13888;P32780;Q92759;P51946;O95602;Q53T94;P17480;Q15573;P53803;Q155

72;P52434;Q9Y2S0;O15160}

7176 [Cluster 653]GO:0035148+P biological\_process [name] tube formation [def] "Creation of the central hole of a tube in an anatomical structure through which gases and/or liquids flow." [GOC

7177 Pathogen[ Q2Q067] interacts with 1 human partners:{Q86SQ7}

7178 Pathogen[ P0C214] interacts with 1 human partners:{Q86SQ7}

7179 Pathogen[ P03346] interacts with 1 human partners:{Q86SQ7}

7180 Pathogen[ Q85601] interacts with 1 human partners:{Q86SQ7}

7181 Pathogen[ P14079] interacts with 1 human partners:{Q86SQ7}

7182 Pathogen[ P03383] interacts with 1 human partners:{Q86SQ7}

7183 Pathogen[ P03410] interacts with 1 human partners:{Q86SQ7}

7184 Pathogen[ P14075] interacts with 1 human partners:{Q86SQ7}

7185 Pathogen[ P0C206] interacts with 1 human partners:{Q86SQ7}

7186 Pathogen[ P03363] interacts with 1 human partners:{Q86SQ7}

7187 [Cluster 654]GO:2000706+P biological\_process [name] negative regulation of dense core granule biogenesis [def] "Any process that stops, prevents or reduces the frequency, rate or extent of dense core granule biogenesis." [GOC

7188 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13127}

7189 Pathogen[ P0C214] interacts with 1 human partners:{Q13127}

7190 Pathogen[ P03346] interacts with 1 human partners:{Q13127}

7191 Pathogen[ Q85601] interacts with 1 human partners:{Q13127}

7192 Pathogen[ P14079] interacts with 1 human partners:{Q13127}

7193 Pathogen[ P03383] interacts with 1 human partners:{Q13127}

7194 Pathogen[ P03410] interacts with 1 human partners:{Q13127}

7195 Pathogen[ P14075] interacts with 1 human partners:{Q13127}

7196 Pathogen[ P0C206] interacts with 1 human partners:{Q13127}

7197 Pathogen[ P03363] interacts with 1 human partners:{Q13127}

7198 [Cluster 655]GO:0045646+P biological\_process [name] regulation of erythrocyte differentiation [def] "Any process that modulates the frequency, rate or extent of erythrocyte differentiation." [GOC

7199 Pathogen[ Q2Q067] interacts with 3 human partners:{Q5VTD9;P17947;Q00534}

7200 Pathogen[ P0C214] interacts with 3 human partners:{P17947;Q5VTD9;Q00534}

7201 Pathogen[ P03346] interacts with 3 human partners:{Q5VTD9;P17947;Q00534}

7202 Pathogen[ Q85601] interacts with 3 human partners:{Q5VTD9;P17947;Q00534}

7203 Pathogen[ P14079] interacts with 1 human partners:{Q5VTD9}

7204 Pathogen[ P03383] interacts with 2 human partners:{Q00534;P17947}

7205 Pathogen[ P03410] interacts with 3 human partners:{Q00534;P17947;Q5VTD9}

7206 Pathogen[ P14075] interacts with 2 human partners:{Q00534;P17947}

7207 Pathogen[ P0C206] interacts with 3 human partners:{P17947;Q5VTD9;Q00534}

7208 Pathogen[ P03363] interacts with 3 human partners:{Q5VTD9;P17947;Q00534}

7209 [Cluster 656]GO:0006468+P biological\_process [name] protein phosphorylation [def] "The process of introducing a phosphate group on to a protein." [GOC

7210 Pathogen[ Q2Q067] interacts with 64 human partners:{P52434;Q92585;P31749;P24385;A6NGQ2;Q9BY44;Q13889;Q92985;Q00613;P19388;P52435;P32780;P30876;O14757;P61218;Q92759;O15117;P11308;O60563;P15172;P14635;P23528;O95163;Q14765;P62487;O75582;P51948;O96017;P10914;Q96IZ7;P24864;P50750;Q13233;P50613;O15198;O15164;Q9P278;Q15796;P62875;P24928;Q13363;Q8WTW4;Q96RU7;O60885;O14920;Q13761;Q9NR09;P45984;O43318;P49336;P27986;P30305;O14519;P24941;P11802;Q99717;O15111;O15392;Q15759;Q13888;O60921;P51946;Q00534}

7211 Pathogen[ P0C214] interacts with 67 human partners:{O15198;Q92585;P51946;Q9P278;Q13761;P11308;O15117;O15111;Q969Z0;Q00613;Q13363;P30876;Q9BY44;Q14164;Q8WTW4;P50750;P50613;Q14765;P52435;P11802;O94921;P15172;P10914;P61218;P14635;P24385;O43318;Q96IZ7;O60921;P62487;Q00534;Q13233;P21127;Q92985;Q00536;P51948;O96017;P49336;P24941;O14519;Q15796;P30305;P62875;P32780;P24928;O75582;O60563;O15392;Q96RU7;O15164;P24864;Q15759;O60885;Q13888;Q9NR09;P45984;Q99717;P52434;Q15797;P19388;P16220;O14757;P27986;O95163;O14920;Q92759;P31749}

7212 Pathogen[ P03346] interacts with 86 human partners:{O60921;Q92585;Q13263;P45984;Q00536;O15111;P52434;P24385;O96017;P16220;O15392;Q00613;P21127;Q14149;Q15797;O60563;P49336;P24941;Q13888;P15172;Q15796;O14757;P24864;O95163;P61218;Q8WTW4;Q99717;Q8IZE3;Q86Z02;Q9P278;Q6P3W7;O15198;P30305;Q13889;P11802;Q8TF05;P62487;P19388;P11308;Q496M5;P31749;P14635;P10914;P52435;O75569;Q13761;Q8TD19;P51946;P50750;P36954;Q13233;O75582;Q96RU7;Q92759;Q9BY44;O60885;P30876;Q15759;Q96PY6;P45985;Q9NR09;Q13363;Q00534;Q96KG9;P24928;O14920;O94921;P23528;O43318;O15117;Q92985;Q96IZ7;Q6ZN04;Q14765;O14519;P51948;O14965;Q14164;Q8NB16;P32780;O15164;Q9NRD5;A6NGQ2;P27986;P62875;O00444}

7213 Pathogen[ Q85601] interacts with 77 human partners:{P51946;O15198;Q92585;P36954;Q00536;P31749;P24385;Q14765;O96017;O60563;P50750;P15172;Q96PY6;O15111;Q15797;Q13888;P49336;Q969Z0;Q9BY44;P61218;Q8WTW4;O15392;Q13363;O14519;P51948;O15164;Q14149;Q00613;P10914;P11802;P27986;O14757;Q13263;P62487;P30305;O14965;P19388;Q14164;O15117;P14635;Q92759;P32780;P16220;Q99717;P52435;O14920;O60921;Q92985;O94921;O75582;P50613;Q96RU7;O60885;Q15759;Q96IZ7;P45984;Q9NR09;P21127;Q96KG9;P24928;Q13233;P30876;P23528;Q00534;P52434;O43318;Q496M5;P19447;O95163;Q9P278;P24941;P62875;P11308;P51955;Q15796;Q13761;P24864}

7214 Pathogen[ P14079] interacts with 77 human partners:{P31751;O14519;P62875;O15164;Q14004;Q9NYY8;O43187;P53779;Q8TF05;P49336;P51946;P52564;P24864;P62487;Q9BY44;P49842;O75582;P52434;Q92985;O15198;P16298;O15514;P308



- 76;Q14164;P61218;O15392;O95163;O75569;Q587J8;Q13889;Q53R41;Q15797;Q14765;A6NGQ2;Q7L8L6;P11308;Q14CZ7;Q9NR09;P45984;Q15078;Q14149;P45983;P50613;Q13888;Q00613;O15117;P19388;P14635;P51955;Q16644;Q8IVS8;P23528;Q15759;P45985;P52435;Q8WTW4;Q96IZ7;Q92759;Q969Z0;P21127;Q96RU7;P32780;O60885;Q13164;P30305;Q13761;P24928;O14965;P36954;Q92585;O60921;P19447;P10914;P50750;Q96KG9;O96001;P51948}
- 7215 Pathogen[ P03383] interacts with 68 human partners: {O14519;Q13761;Q9NYV4;Q8WTW4;P27986;O15198;Q92585;P10914;O14757;O75582;O95163;P16220;P51948;Q13233;Q96IZ7;Q8TD19;P15172;O14920;Q13888;P31749;O15111;Q00536;P52434;P24385;P61218;Q15797;Q00534;O15117;P14635;Q9P278;P11802;O43318;Q9BY44;O60921;P21127;Q969Z0;P62487;P49336;Q92985;P11308;O60563;P50613;A6NGQ2;P51946;P24928;P24941;Q99717;P50750;Q15759;Q00613;O94921;Q92759;O14965;Q96RU7;O60885;P62875;Q96PY6;Q15796;P52435;Q9NR09;P45984;P19388;P23528;P30876;P24864;P32780;Q13363;O96017}
- 7216 Pathogen[ P03410] interacts with 83 human partners: {Q00613;Q8IVS8;O15392;P27986;Q7L8L6;O14920;Q13889;Q53R41;P36954;Q8IZE3;Q9NY8;O60885;Q00534;A6NGQ2;P24928;Q8NB16;Q14149;O15111;Q8WTW4;O75582;Q99717;P51946;O43187;O15198;Q14765;P31749;P30876;Q96IZ7;Q13233;O15514;P50613;Q92585;O75569;O14965;P50750;Q9NR09;O60563;O43318;P24385;Q9NRD5;P14635;Q96KG9;P52435;P45985;P24941;O95163;P11802;Q15797;P19447;P10914;P62875;P16220;O96017;O14757;O60921;P61218;P49336;O15117;P51948;Q96RU7;Q13888;P45984;P52434;Q13761;Q9BY44;P53779;Q14CZ7;P62487;O14519;Q8TF05;O96001;P23528;P30305;Q92985;P11308;Q15796;P19388;P24864;P32780;Q969Z0;Q9P278;Q587J8;Q92759}
- 7217 Pathogen[ P14075] interacts with 70 human partners: {P49336;Q92585;O15111;Q00613;Q92759;Q969Z0;P24941;P11802;Q15759;P30876;P14635;O75582;Q8IVS8;O60563;P50613;P15172;Q96IZ7;Q00534;P19388;P61218;P50750;O15117;Q99717;Q15796;P23528;Q8WTW4;P62487;O14920;P31749;O14519;O96017;Q13889;O14965;P24928;O43318;P27986;O15198;P49842;P11308;P21127;A6NGQ2;P51946;Q96RU7;P32780;Q95163;O60921;O60885;Q9NR09;Q96PY6;P16220;P24385;Q13363;Q92985;P62875;Q13233;P10914;O94921;Q9UQ88;Q9NYV4;P52434;Q9BY44;Q9P278;O14757;P51948;P52435;Q13761;P24864;P45984;Q8TD19;Q13888}
- 7218 Pathogen[ P0C206] interacts with 92 human partners: {A6NGQ2;P10914;P62875;P49336;Q496M5;O14920;P31749;P36954;Q13263;P50750;O96017;P16220;P51955;O75582;P45984;Q00613;Q00536;Q99717;P19388;P61218;Q9P278;O43318;Q96PY6;O00444;P30305;O15164;Q8TD19;Q96KG9;Q15796;Q6P3W7;P27986;Q13233;Q96RU7;P11308;P19447;O95163;O14519;P30291;Q14164;O15514;Q6ZN04;Q13888;P50613;Q9NR09;Q92985;O60885;Q14149;Q969Z0;O15111;Q92759;O60921;Q8TF05;O15392;P52435;P62487;P45985;P32780;Q96IZ7;Q15797;Q13889;Q9BY44;P15172;P21127;Q14765;P24928;P14635;O15198;O14965;Q13363;O15117;O60563;P23528;Q8IVS8;Q9NRD5;P24864;P24941;Q15759;Q9NY8;P11802;Q13761;O94921;P52434;Q99640;Q92585;Q99986;P51946;P51948;P24385;Q8WTW4;Q00534;Q7L8L6;P30876}
- 7219 Pathogen[ P03363] interacts with 61 human partners: {A6NGQ2;Q14765;Q96IZ7;Q92985;O14920;P19388;Q9BY44;P24864;O60563;P21127;P30876;Q13888;P32780;Q92759;O15111;P61218;P51946;P16220;P24928;O43318;P24941;Q15797;Q8IVS8;O96017;O60885;Q00534;O15117;P11308;Q9NR09;P31749;Q8NB16;Q96KG9;Q15796;O95163;P49336;P10914;P23528;P62487;P24385;Q8WTW4;P50750;O60921;Q00613;O14519;Q8IZE3;Q13363;Q9P278;P11802;Q13761;P52435;Q8TF05;P52434;P15172;Q99717;P27986;Q00536;O15198;Q13233;Q92585;O75569;O14757}
- 7220 [Cluster 657]GO:0021846+P biological\_process [name] cell proliferation in forebrain [def] "The creation of greater cell numbers in the forebrain due to cell division of progenitor cells." [GO\_REF
- 7221 Pathogen[ Q2Q067] interacts with 3 human partners: {O60315;Q9NRI5;Q04743}
- 7222 Pathogen[ P0C214] interacts with 2 human partners: {Q9NRI5;O60315}
- 7223 Pathogen[ P03346] interacts with 5 human partners: {Q9NRI5;O60315;Q04743;Q96QS3;Q9H2C1}
- 7224 Pathogen[ Q85601] interacts with 2 human partners: {O60315;Q9NRI5}
- 7225 Pathogen[ P14079] interacts with 3 human partners: {Q9NRI5;O60315;Q04743}
- 7226 Pathogen[ P03383] interacts with 1 human partners: {Q9NRI5}
- 7227 Pathogen[ P03410] interacts with 2 human partners: {Q9NRI5;Q04743}
- 7228 Pathogen[ P14075] interacts with 1 human partners: {Q9NRI5}
- 7229 Pathogen[ P0C206] interacts with 4 human partners: {Q04743;Q9H2C1;Q9NRI5;O60315}
- 7230 Pathogen[ P03363] interacts with 4 human partners: {O60315;Q9NRI5;Q96QS3;Q04743}
- 7231 [Cluster 658]GO:0006783+P biological\_process [name] heme biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of heme, any compound of iron complexed in a porphyrin (tetrapyrrole) ring, from less complex precursors." [GOC
- 7232 Pathogen[ Q2Q067] interacts with 6 human partners: {P10746;P22557;P13196;P20823;P06132;P08397}
- 7233 Pathogen[ P0C214] interacts with 8 human partners: {P06132;P22557;P13196;P10746;P08397;Q5T440;P36551;P22830}
- 7234 Pathogen[ P03346] interacts with 6 human partners: {P10746;P20823;P22557;P13196;Q5T440;P06132}
- 7235 Pathogen[ Q85601] interacts with 5 human partners: {P10746;P13196;P06132;P08397;P20823}
- 7236 Pathogen[ P14079] interacts with 10 human partners: {P13196;Q12887;P22557;P10746;P06132;P08397;Q9P0S9;P22830;P36551;Q5T440}
- 7237 Pathogen[ P03383] interacts with 2 human partners: {P06132;P08397}
- 7238 Pathogen[ P03410] interacts with 10 human partners: {P08397;Q5T440;P06132;P36551;P10746;P22557;P22830;Q9P0S9;Q12887;P13196}
- 7239 Pathogen[ P14075] interacts with 3 human partners: {P06132;Q5T440;P08397}

7240 Pathogen[ P0C206] interacts with 9 human partners:{P10746;P36551;P22557;P20823;P22830;Q5T440;P13196;P08397;P06132}

7241 Pathogen[ P03363] interacts with 2 human partners:{P06132;P13196}

7242 [Cluster 659]GO:0014823+P biological\_process [name] response to activity [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an activity stimulus." [GOC]

7243 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9UKX2;Q16836}

7244 Pathogen[ P0C214] interacts with 3 human partners:{Q9UKX2;P35558;Q9Y623}

7245 Pathogen[ P03346] interacts with 2 human partners:{Q16836;Q9UKX2}

7246 Pathogen[ Q85601] interacts with 3 human partners:{Q9UKX2;Q16836;Q9Y623}

7247 Pathogen[ P14079] interacts with 3 human partners:{Q9UKX2;O43819;Q16836}

7248 Pathogen[ P03383] interacts with 2 human partners:{Q16836;Q9UKX2}

7249 Pathogen[ P03410] interacts with 3 human partners:{Q9UKX2;Q16836;O43819}

7250 Pathogen[ P14075] interacts with 2 human partners:{Q9UKX2;Q16836}

7251 Pathogen[ P0C206] interacts with 3 human partners:{Q9Y623;Q16836;Q9UKX2}

7252 Pathogen[ P03363] interacts with 2 human partners:{Q16836;Q9UKX2}

7253 [Cluster 660]GO:0003311+P biological\_process [name] pancreatic D cell differentiation [def] "The process in which relatively unspecialized cells acquire specialized structural and functional features that characterize a pancreatic delta cell. A delta cell is a cell of the pancreas that produces somatostatin." [GOC]

7254 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8HWS3}

7255 Pathogen[ P0C214] interacts with 1 human partners:{Q8HWS3}

7256 Pathogen[ P03346] interacts with 1 human partners:{Q8HWS3}

7257 Pathogen[ Q85601] interacts with 1 human partners:{Q8HWS3}

7258 Pathogen[ P14079] interacts with 1 human partners:{Q8HWS3}

7259 Pathogen[ P03383] interacts with 1 human partners:{Q8HWS3}

7260 Pathogen[ P03410] interacts with 1 human partners:{Q8HWS3}

7261 Pathogen[ P14075] interacts with 1 human partners:{Q8HWS3}

7262 Pathogen[ P0C206] interacts with 1 human partners:{Q8HWS3}

7263 Pathogen[ P03363] interacts with 1 human partners:{Q8HWS3}

7264 [Cluster 661]GO:2000146+P biological\_process [name] negative regulation of cell motility [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of cell motility." [GOC]

7265 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13526}

7266 Pathogen[ P0C214] interacts with 1 human partners:{Q13526}

7267 Pathogen[ P03346] interacts with 1 human partners:{Q13526}

7268 Pathogen[ Q85601] interacts with 1 human partners:{Q13526}

7269 Pathogen[ P14079] interacts with 1 human partners:{Q13526}

7270 Pathogen[ P03383] interacts with 1 human partners:{Q13526}

7271 Pathogen[ P03410] interacts with 1 human partners:{Q13526}

7272 Pathogen[ P14075] interacts with 1 human partners:{Q13526}

7273 Pathogen[ P0C206] interacts with 1 human partners:{Q13526}

7274 Pathogen[ P03363] interacts with 1 human partners:{Q13526}

7275 [Cluster 662]GO:0007338+P biological\_process [name] single fertilization [def] "The union of male and female gametes to form a zygote." [GOC]

7276 Pathogen[ Q2Q067] interacts with 5 human partners:{Q99497;P49901;O14599;O75969;Q96CW5}

7277 Pathogen[ P0C214] interacts with 6 human partners:{P49901;O14645;Q99497;O14599;Q96CW5;O75969}

7278 Pathogen[ P03346] interacts with 7 human partners:{O75969;Q96CW5;Q86SE8;O14599;Q99497;O14645;P49901}

7279 Pathogen[ Q85601] interacts with 6 human partners:{Q99497;O14599;O75969;Q86SE8;Q96CW5;O14645}

7280 Pathogen[ P14079] interacts with 10 human partners:{Q5JQC9;O14609;Q99497;O00124;P46926;O14645;O75969;O14599;P49901;Q96CW5}

7281 Pathogen[ P03383] interacts with 4 human partners:{Q96CW5;P49901;O14599;O75969}

7282 Pathogen[ P03410] interacts with 11 human partners:{Q86SE8;P49901;Q99497;O14599;Q5JQC9;O75969;P46926;Q96CW5;O14645;O14609;O00124}

7283 Pathogen[ P14075] interacts with 4 human partners:{O75969;O14599;P49901;Q96CW5}

7284 Pathogen[ P0C206] interacts with 11 human partners:{O14645;Q5JQC9;P49901;Q96CW5;Q99497;O14599;O00124;O75969;Q86SE8;P46926;O14609}

7285 Pathogen[ P03363] interacts with 6 human partners:{O14599;O14645;O75969;Q86SE8;P49901;Q96CW5}

7286 [Cluster 663]GO:0072560+P biological\_process [name] type B pancreatic cell maturation [def] "A developmental process, independent of morphogenetic (shape) change, that is required for a type B pancreatic cell to attain its fully functional state. A type B pancreatic cell is a cell located towards center of the islets of Langerhans that secretes insulin." [CL]

7287 Pathogen[ Q2Q067] interacts with 1 human partners:{P48380}

7288 Pathogen[ P0C214] interacts with 1 human partners:{P48380}

7289 Pathogen[ P03346] interacts with 2 human partners:{P48380;P78426}

7290 Pathogen[ Q85601] interacts with 1 human partners:{P48380}

7291 Pathogen[ P14079] interacts with 1 human partners:{P48380}

7292 Pathogen[ P03383] interacts with 1 human partners:{P48380}

7293 Pathogen[ P03410] interacts with 1 human partners:{P48380}

7294 Pathogen[ P14075] interacts with 1 human partners:{P48380}

7295 Pathogen[ P0C206] interacts with 1 human partners:{P48380}

7296 Pathogen[ P03363] interacts with 1 human partners:{P48380}

7297 [Cluster 664]GO:0044346+P biological\_process [name] fibroblast apoptosis [def] "Apoptosis of a fibroblast, a connective tissue cell which secretes an extracellular matrix rich in collagen and other macromolecules." [CL

7298 Pathogen[ Q2Q067] interacts with 1 human partners:{P01106}

7299 Pathogen[ P0C214] interacts with 1 human partners:{P01106}

7300 Pathogen[ P03346] interacts with 1 human partners:{P01106}

7301 Pathogen[ Q85601] interacts with 1 human partners:{P01106}

7302 Pathogen[ P14079] interacts with 1 human partners:{P01106}

7303 Pathogen[ P03383] interacts with 1 human partners:{P01106}

7304 Pathogen[ P03410] interacts with 1 human partners:{P01106}

7305 Pathogen[ P14075] interacts with 1 human partners:{P01106}

7306 Pathogen[ P0C206] interacts with 1 human partners:{P01106}

7307 Pathogen[ P03363] interacts with 1 human partners:{P01106}

7308 [Cluster 665]GO:0036018+P biological\_process [name] cellular response to erythropoietin [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an erythropoietin stimulus." [GOC

7309 Pathogen[ Q2Q067] interacts with 2 human partners:{P80297;P02795}

7310 Pathogen[ P0C214] interacts with 2 human partners:{P80297;P02795}

7311 Pathogen[ P03346] interacts with 2 human partners:{P80297;P02795}

7312 Pathogen[ Q85601] interacts with 2 human partners:{P02795;P80297}

7313 Pathogen[ P14079] interacts with 2 human partners:{P80297;P02795}

7314 Pathogen[ P03383] interacts with 2 human partners:{P80297;P02795}

7315 Pathogen[ P03410] interacts with 2 human partners:{P80297;P02795}

7316 Pathogen[ P14075] interacts with 2 human partners:{P80297;P02795}

7317 Pathogen[ P0C206] interacts with 2 human partners:{P02795;P80297}

7318 Pathogen[ P03363] interacts with 2 human partners:{P80297;P02795}

7319 [Cluster 666]GO:0009794+P biological\_process [name] regulation of mitotic cell cycle, embryonic [def] "Any process that modulates the frequency, rate or extent of replication and segregation of genetic material in the embryo." [GOC

7320 Pathogen[ Q2Q067] interacts with 1 human partners:{Q66K89}

7321 Pathogen[ P0C214] interacts with 1 human partners:{Q66K89}

7322 Pathogen[ P03346] interacts with 1 human partners:{Q66K89}

7323 Pathogen[ Q85601] interacts with 1 human partners:{Q66K89}

7324 Pathogen[ P14079] interacts with 1 human partners:{Q66K89}

7325 Pathogen[ P03383] interacts with 1 human partners:{Q66K89}

7326 Pathogen[ P03410] interacts with 1 human partners:{Q66K89}

7327 Pathogen[ P14075] interacts with 1 human partners:{Q66K89}

7328 Pathogen[ P0C206] interacts with 1 human partners:{Q66K89}

7329 Pathogen[ P03363] interacts with 1 human partners:{Q66K89}

7330 [Cluster 667]GO:2000373+P biological\_process [name] positive regulation of DNA topoisomerase (ATP-hydrolyzing) activity [def] "Any process that activates or increases the frequency, rate or extent of DNA topoisomerase (ATP-hydrolyzing) activity." [GOC

7331 Pathogen[ Q2Q067] interacts with 2 human partners:{Q96T88;O15162}

7332 Pathogen[ P0C214] interacts with 2 human partners:{Q96T88;O15162}

7333 Pathogen[ P03346] interacts with 2 human partners:{Q96T88;O15162}

7334 Pathogen[ Q85601] interacts with 2 human partners:{Q96T88;O15162}

7335 Pathogen[ P14079] interacts with 1 human partners:{O15162}

7336 Pathogen[ P03383] interacts with 1 human partners:{O15162}

7337 Pathogen[ P03410] interacts with 1 human partners:{O15162}

7338 Pathogen[ P14075] interacts with 1 human partners:{O15162}

7339 Pathogen[ P0C206] interacts with 2 human partners:{Q96T88;O15162}

7340 Pathogen[ P03363] interacts with 1 human partners:{Q96T88}

7341 [Cluster 668]GO:0003416+P biological\_process [name] endochondral bone growth [def] "The increase in size or mass of an endochondral bone that contributes to the shaping of the bone." [GOC

7342 Pathogen[ Q2Q067] interacts with 1 human partners:{P35548}

7343 Pathogen[ P0C214] interacts with 1 human partners:{P35548}

7344 Pathogen[ P03346] interacts with 1 human partners:{P35548}

7345 Pathogen[ Q85601] interacts with 1 human partners:{P35548}

7346 Pathogen[ P14079] interacts with 1 human partners:{P57679}

7347 Pathogen[ P03383] interacts with 1 human partners:{P35548}

7348 Pathogen[ P03410] interacts with 1 human partners:{P35548}

7349 Pathogen[ P14075] interacts with 1 human partners:{P35548}

7350 Pathogen[ P0C206] interacts with 1 human partners:{P35548}

7351 Pathogen[ P03363] interacts with 1 human partners:{P35548}

7352 [Cluster 669]GO:0007369+P biological\_process [name] gastrulation [def] "A complex and coordinated series of cellular movements that occurs at the end of cleavage during embryonic development of most animals. The details of gastrulation vary from species to species, but usually result in the formation of the three primary germ layers, ectoderm,

mesoderm and endoderm." [GOC

7353 Pathogen[ Q2Q067] interacts with 7 human partners:{Q8NEM7;Q13485;P54198;P11831;P84022;Q13618;Q15796}

7354 Pathogen[ POC214] interacts with 8 human partners:{P54198;P84022;P11831;Q13618;Q16881;Q13485;Q15796;P09622}

7355 Pathogen[ P03346] interacts with 9 human partners:{Q9H2W2;P11831;Q13618;Q15796;P84022;Q8NEM7;Q13485;P56915;P54198}

7356 Pathogen[ Q85601] interacts with 6 human partners:{P54198;P11831;P84022;Q13618;Q13485;Q15796}

7357 Pathogen[ P14079] interacts with 3 human partners:{Q8NEM7;Q13618;P54198}

7358 Pathogen[ P03383] interacts with 6 human partners:{P11831;Q13485;Q13618;P84022;Q15796;P54198}

7359 Pathogen[ P03410] interacts with 7 human partners:{P84022;P11831;P54198;Q13618;Q13485;Q8NEM7;Q15796}

7360 Pathogen[ P14075] interacts with 7 human partners:{Q13618;P11831;Q15796;P54198;Q13485;Q8NEM7;P84022}

7361 Pathogen[ POC206] interacts with 6 human partners:{P84022;P54198;Q15796;Q13618;Q13485;P11831}

7362 Pathogen[ P03363] interacts with 9 human partners:{P54198;Q8NEM7;Q13618;Q9H2W2;P11831;P56915;Q15796;P84022;Q13485}

7363 [Cluster 670]GO:0043029+P biological\_process [name] T cell homeostasis [def] "The process of regulating the proliferation and elimination of T cells such that the total number of T cells within a whole or part of an organism is stable over time in the absence of an outside stimulus." [GOC

7364 Pathogen[ Q2Q067] interacts with 3 human partners:{Q13794;Q8N5P1;O95067}

7365 Pathogen[ POC214] interacts with 3 human partners:{Q13794;O95067;P42574}

7366 Pathogen[ P03346] interacts with 4 human partners:{P42574;O95067;Q8N5P1;Q13794}

7367 Pathogen[ Q85601] interacts with 3 human partners:{Q8N5P1;O95067;Q13794}

7368 Pathogen[ P14079] interacts with 4 human partners:{P16298;O95067;Q13794;Q8N5P1}

7369 Pathogen[ P03383] interacts with 2 human partners:{O95067;Q13794}

7370 Pathogen[ P03410] interacts with 3 human partners:{O95067;Q13794;Q8N5P1}

7371 Pathogen[ P14075] interacts with 2 human partners:{O95067;Q13794}

7372 Pathogen[ POC206] interacts with 4 human partners:{Q8N5P1;P42574;O95067;Q13794}

7373 Pathogen[ P03363] interacts with 3 human partners:{Q13794;O95067;Q8N5P1}

7374 [Cluster 671]GO:0048268+P biological\_process [name] clathrin coat assembly [def] "The process that results in the assembly of clathrin triskelia into the ordered structure known as a clathrin cage." [GOC

7375 Pathogen[ Q2Q067] interacts with 2 human partners:{O00291;P63010}

7376 Pathogen[ POC214] interacts with 3 human partners:{P63010;P53680;O00291}

7377 Pathogen[ P03346] interacts with 5 human partners:{P63010;P53680;O00291;P42566;Q13492}

7378 Pathogen[ Q85601] interacts with 3 human partners:{P53680;O00291;P63010}

7379 Pathogen[ P14079] interacts with 5 human partners:{Q13492;O00291;P42566;P63010;P53680}

7380 Pathogen[ P03383] interacts with 2 human partners:{O00291;P63010}

7381 Pathogen[ P03410] interacts with 6 human partners:{P53680;Q0JRZ9;O00291;Q13492;P63010;P42566}

7382 Pathogen[ P14075] interacts with 2 human partners:{O00291;P63010}

7383 Pathogen[ POC206] interacts with 4 human partners:{P53680;P63010;O00291;P42566}

7384 Pathogen[ P03363] interacts with 2 human partners:{P63010;O00291}

7385 [Cluster 672]GO:0000185+P biological\_process [name] activation of MAPKKK activity [def] "Any process that initiates the activity of the inactive enzyme MAP kinase kinase." [PMID

7386 Pathogen[ Q2Q067] interacts with 2 human partners:{O95257;Q15750}

7387 Pathogen[ POC214] interacts with 2 human partners:{O95257;Q15750}

7388 Pathogen[ P03346] interacts with 3 human partners:{Q6Q0C0;Q15750;O95257}

7389 Pathogen[ Q85601] interacts with 3 human partners:{Q15750;O95257;Q6Q0C0}

7390 Pathogen[ P14079] interacts with 3 human partners:{Q15750;O75293;O95257}

7391 Pathogen[ P03383] interacts with 2 human partners:{O95257;Q15750}

7392 Pathogen[ P03410] interacts with 3 human partners:{O75293;Q15750;O95257}

7393 Pathogen[ P14075] interacts with 2 human partners:{Q15750;O95257}

7394 Pathogen[ POC206] interacts with 4 human partners:{O75293;O95257;Q15750;Q6Q0C0}

7395 Pathogen[ P03363] interacts with 2 human partners:{O95257;Q15750}

7396 [Cluster 673]GO:0003007+P biological\_process [name] heart morphogenesis [def] "The developmental process in which the heart is generated and organized. The heart is a hollow, muscular organ, which, by contracting rhythmically, keeps up the circulation of the blood." [GOC

7397 Pathogen[ Q2Q067] interacts with 3 human partners:{O14641;Q6STE5;Q15750}

7398 Pathogen[ POC214] interacts with 3 human partners:{Q6STE5;O14641;Q15750}

7399 Pathogen[ P03346] interacts with 4 human partners:{O14641;Q6STE5;Q15750;Q9P2D1}

7400 Pathogen[ Q85601] interacts with 4 human partners:{Q15750;Q6STE5;Q9P2D1;O14641}

7401 Pathogen[ P14079] interacts with 5 human partners:{Q6STE5;O14641;Q15750;Q9P2D1;P28360}

7402 Pathogen[ P03383] interacts with 3 human partners:{Q6STE5;O14641;Q15750}

7403 Pathogen[ P03410] interacts with 4 human partners:{Q15750;Q9P2D1;Q6STE5;O14641}

7404 Pathogen[ P14075] interacts with 3 human partners:{Q15750;O14641;Q6STE5}

7405 Pathogen[ P0C206] interacts with 4 human partners:{Q6STE5;Q9P2D1;Q15750;Q9UIG0}  
7406 Pathogen[ P03363] interacts with 3 human partners:{Q6STE5;Q15750;O14641}  
7407 [Cluster 674]GO:0070542+P biological\_process [name] response to fatty acid [def]  
"Any process that results in a change in state or activity of a cell or an organism (in  
terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a  
fatty acid stimulus." [CHEBI  
7408 Pathogen[ Q2Q067] interacts with 3 human partners:{P36956;P05413;P27986}  
7409 Pathogen[ P0C214] interacts with 2 human partners:{P05413;P27986}  
7410 Pathogen[ P03346] interacts with 3 human partners:{P05413;P36956;P27986}  
7411 Pathogen[ Q85601] interacts with 3 human partners:{P05413;P27986;P36956}  
7412 Pathogen[ P14079] interacts with 3 human partners:{Q9Y5U4;P05413;P36956}  
7413 Pathogen[ P03383] interacts with 1 human partners:{P27986}  
7414 Pathogen[ P03410] interacts with 4 human partners:{P36956;P27986;P05413;Q9Y5U4}  
7415 Pathogen[ P14075] interacts with 1 human partners:{P27986}  
7416 Pathogen[ P0C206] interacts with 3 human partners:{P36956;P27986;P05413}  
7417 Pathogen[ P03363] interacts with 2 human partners:{P05413;P27986}  
7418 [Cluster 675]GO:0051653+P biological\_process [name] spindle localization [def] "Any  
process in which is the spindle is transported to, and/or maintained in, a specific  
location." [GOC  
7419 Pathogen[ Q2Q067] interacts with 1 human partners:{O00401}  
7420 Pathogen[ P0C214] interacts with 1 human partners:{O00401}  
7421 Pathogen[ P03346] interacts with 1 human partners:{O00401}  
7422 Pathogen[ Q85601] interacts with 1 human partners:{O00401}  
7423 Pathogen[ P14079] interacts with 2 human partners:{P61158;O00401}  
7424 Pathogen[ P03383] interacts with 1 human partners:{O00401}  
7425 Pathogen[ P03410] interacts with 1 human partners:{O00401}  
7426 Pathogen[ P14075] interacts with 1 human partners:{O00401}  
7427 Pathogen[ P0C206] interacts with 1 human partners:{O00401}  
7428 Pathogen[ P03363] interacts with 1 human partners:{O00401}  
7429 [Cluster 676]GO:0060335+P biological\_process [name] positive regulation of  
interferon-gamma-mediated signaling pathway [def] "Any process that increases the rate,  
frequency or extent of the series of molecular events generated as a consequence of  
interferon-gamma binding to a cell surface receptor." [GOC  
7430 Pathogen[ Q2Q067] interacts with 1 human partners:{Q86WI3}  
7431 Pathogen[ P0C214] interacts with 1 human partners:{Q86WI3}  
7432 Pathogen[ P03346] interacts with 1 human partners:{Q86WI3}  
7433 Pathogen[ Q85601] interacts with 1 human partners:{Q86WI3}  
7434 Pathogen[ P14079] interacts with 1 human partners:{Q86WI3}  
7435 Pathogen[ P03383] interacts with 1 human partners:{Q86WI3}  
7436 Pathogen[ P03410] interacts with 1 human partners:{Q86WI3}  
7437 Pathogen[ P14075] interacts with 1 human partners:{Q86WI3}  
7438 Pathogen[ P0C206] interacts with 1 human partners:{Q86WI3}  
7439 Pathogen[ P03363] interacts with 1 human partners:{Q86WI3}  
7440 [Cluster 677]GO:0060218+P biological\_process [name] hemopoietic stem cell  
differentiation [def] "The process in which a relatively unspecialized cell acquires  
specialized features of a hemopoietic stem cell. A stem cell is a cell that retains the  
ability to divide and proliferate throughout life to provide progenitor cells that can  
differentiate into specialized cells." [GOC  
7441 Pathogen[ Q2Q067] interacts with 5 human  
partners:{P17483;P11831;P13010;Q8TDD2;Q00534}  
7442 Pathogen[ P0C214] interacts with 4 human partners:{P13010;P11831;Q00534;Q8TDD2}  
7443 Pathogen[ P03346] interacts with 6 human  
partners:{P11831;P13010;P17483;Q8TDD2;P17542;Q00534}  
7444 Pathogen[ Q85601] interacts with 4 human partners:{P11831;Q8TDD2;Q00534;P13010}  
7445 Pathogen[ P14079] interacts with 2 human partners:{P13010;Q8TDD2}  
7446 Pathogen[ P03383] interacts with 3 human partners:{P11831;P13010;Q00534}  
7447 Pathogen[ P03410] interacts with 4 human partners:{P11831;Q00534;Q8TDD2;P13010}  
7448 Pathogen[ P14075] interacts with 3 human partners:{P11831;Q00534;P13010}  
7449 Pathogen[ P0C206] interacts with 5 human  
partners:{P13010;P17483;P11831;Q8TDD2;Q00534}  
7450 Pathogen[ P03363] interacts with 5 human  
partners:{P13010;Q8TDD2;P17483;Q00534;P11831}  
7451 [Cluster 678]GO:0007010+P biological\_process [name] cytoskeleton organization  
[def] "A process that is carried out at the cellular level which results in the  
assembly, arrangement of constituent parts, or disassembly of cytoskeletal structures."  
[GOC  
7452 Pathogen[ Q2Q067] interacts with 37 human  
partners:{P52742;P07737;Q8WX93;Q96B97;P35080;O14639;P63313;P08779;O14604;P08729;A6NI  
X2;Q14511;Q6H8Q1;Q9ULQ0;O75400;P60673;P12035;P23528;Q9NZQ3;P0CG35;Q15532;P62328;Q9UG  
P4;P05787;P0CG34;P48668;O43790;Q9NSI6;Q8WWQ0;Q5T5Y3;P19013;Q9Y2M5;Q5HYK7;P63000;Q015  
46;Q9BXF3;P17661}  
7453 Pathogen[ P0C214] interacts with 39 human  
partners:{Q9UGP4;P35080;P08729;P63000;P12035;P16157;P52742;P63313;Q13515;O14639;P057  
87;Q5HYK7;Q9NSI6;P0CG35;P08779;P48668;Q9ULQ0;A6NIX2;P0CG34;O14604;Q8WWQ0;Q9Y2M5;Q5VZ  
L5;Q5T5Y3;Q14511;Q9BXF3;Q15532;P60673;Q9NZQ3;Q6H8Q1;Q01546;P19013;P98171;O43790;Q7L5  
Y9;O75400;Q96B97;P62328;P17661}

7454 Pathogen[ P03346] interacts with 44 human partners: {Q5T5Y3;P08729;Q96B97;Q8WX93;Q9UGP4;Q9BFX3;Q14511;P08779;P98171;O14639;Q13515;O75400;P0CG34;Q9NSI6;Q96FS4;P05787;P19013;P48668;P52742;Q08495;Q6H8Q1;P16157;Q15532;P17661;P60673;P35080;Q9NZQ3;O43790;Q8WWQ0;A6NIX2;P12035;O14604;Q6ZMZ3;O94929;P63313;P62328;Q5HYK7;P0CG35;P07737;P23528;Q9Y2M5;Q01546;Q8TDZ2;P63000}

7455 Pathogen[ Q85601] interacts with 43 human partners: {O14639;P08729;Q15532;Q8WX93;P16157;Q9BFX3;P08779;Q14202;Q5HYK7;P17661;A6NIX2;P05787;P19013;O75400;P35080;O95789;Q7L5Y9;P63000;Q9NZQ3;P0CG34;Q6H8Q1;P07737;Q13515;P52742;Q01546;O43790;P48668;Q8WWQ0;Q5T5Y3;Q9NSI6;Q96B97;P12035;P60673;Q9UGP4;P62328;Q9Y2M5;P0CG35;P23528;Q14511;O14604;Q9ULQ0;Q5VZL5;P63313}

7456 Pathogen[ P14079] interacts with 65 human partners: {Q8N6M3;P48668;O95425;P09327;P52742;Q08495;Q15532;P08779;Q9NSI6;O75400;P0CG34;Q01518;Q9ULQ0;Q8TDZ2;O95789;O75781;P98171;P47756;Q8WX93;O14604;O14639;P40123;Q16585;P07737;O94929;P08729;Q8WWQ0;P35080;P16157;O95954;Q7L5Y9;Q96B97;Q01546;P60673;Q14202;Q92629;Q9NZQ3;P23528;O60610;Q15726;Q9BFX3;P62328;O15195;A6NIX2;Q6ZMZ3;Q9Y2M5;Q13326;Q71RC2;Q6H8Q1;Q5HYK7;Q96LD1;Q5T5Y3;O75366;P0CG35;Q99439;Q13515;P49023;O43790;P17661;Q9UPY6;P63313;P12035;Q8NHR9;Q9UGP4;Q5VZL5}

7457 Pathogen[ P03383] interacts with 34 human partners: {P08729;P35080;P19013;Q13515;O14639;Q5HYK7;P17661;A6NIX2;Q9ULQ0;P62328;P63000;Q15532;P63313;O75400;P07737;P08779;P05787;Q9NZQ3;Q01546;P52742;P12035;Q9UGP4;Q14511;P0CG35;Q9NSI6;P48668;Q5T5Y3;Q8WWQ0;Q9Y2M5;P23528;Q9BFX3;O14604;O43790;P0CG34}

7458 Pathogen[ P03410] interacts with 65 human partners: {Q14202;Q15726;Q8NHR9;Q71RC2;O75781;Q5HYK7;Q9UPY6;P62328;P35080;P47756;P17661;O60610;P63000;P98171;Q6ZMZ3;Q8TDZ2;P12035;Q9BFX3;P16157;P0CG35;P0CG34;Q9UGP4;P19013;O95954;Q6H8Q1;Q13515;O14639;P05787;Q9NZQ3;O94929;P48668;Q16585;Q8N6M3;P08779;O95789;P40123;Q5T5Y3;O95425;P60673;A6NIX2;Q14511;O75400;Q8WWQ0;Q99439;O14604;Q5VZL5;Q08495;Q9ULQ0;Q9NSI6;O43790;Q01546;Q96B97;Q92629;P08729;Q01518;Q13326;P23528;Q15532;P63313;P07737;Q7L5Y9;Q8WX93;P52742;Q9Y2M5;Q96LD1}

7459 Pathogen[ P14075] interacts with 37 human partners: {P48668;P08729;Q14511;P0CG34;Q9NZQ3;Q8WWQ0;P62328;Q15532;Q9NSI6;Q9UGP4;O43790;P17661;Q13515;Q5VZL5;Q5HYK7;Q7L5Y9;P12035;Q9ULQ0;P63313;O75400;P07737;P23528;O14604;P08779;P52742;Q5T5Y3;A6NIX2;P0CG35;O14639;P63000;Q8N6M3;P35080;Q9Y2M5;Q9BFX3;Q01546;P19013;P05787}

7460 Pathogen[ P0C206] interacts with 51 human partners: {O14604;P0CG35;P0CG34;P05787;P17661;P08779;Q5VZL5;P60673;P47756;Q9NSI6;Q9UGP4;Q13515;Q96B97;P62328;A6NIX2;Q5T5Y3;P08729;Q8WX93;Q15532;Q8WWQ0;O94929;O95954;Q6ZMZ3;P19013;P16157;Q14202;Q8N6M3;Q9BFX3;Q7L5Y9;Q5HYK7;P63000;P35080;P48668;P52742;Q01546;P98171;O75400;Q08495;Q9ULQ0;P63313;O14639;Q9Y2M5;P07737;P12035;Q8TDZ2;P23528;O95789;Q14511;Q6H8Q1;Q9NZQ3;O43790}

7461 Pathogen[ P03363] interacts with 46 human partners: {P08779;Q6ZMZ3;Q8WWQ0;Q9UPY6;P35080;P0CG35;P16157;P60673;P62328;Q96B97;P63313;Q8NHR9;P98171;Q15532;P48668;P63000;P05787;Q08495;Q9BFX3;O75400;Q9UGP4;O43790;Q9NSI6;Q9Y2M5;Q14511;Q6H8Q1;P17661;P0CG34;P23528;Q8WX93;P08729;Q9NZQ3;P12035;A6NIX2;P19013;Q5HYK7;Q01546;P52742;O14604;Q9ULQ0;Q96FS4;P07737;O14639;O95789;Q13515;Q5T5Y3}

7462 [Cluster 679]GO:0060286+P biological\_process [name] flagellar cell motility [def] "Cell motility due to the motion of one or more flagella." [GOC]

7463 Pathogen[ Q2Q067] interacts with 1 human partners: {Q9NVR5}

7464 Pathogen[ P0C214] interacts with 1 human partners: {Q9NVR5}

7465 Pathogen[ P03346] interacts with 1 human partners: {Q9NVR5}

7466 Pathogen[ Q85601] interacts with 1 human partners: {Q9NVR5}

7467 Pathogen[ P14079] interacts with 2 human partners: {Q9NVR5;Q9UFE4}

7468 Pathogen[ P03383] interacts with 1 human partners: {Q9NVR5}

7469 Pathogen[ P03410] interacts with 2 human partners: {Q9UFE4;Q9NVR5}

7470 Pathogen[ P14075] interacts with 1 human partners: {Q9NVR5}

7471 Pathogen[ P0C206] interacts with 2 human partners: {Q9NVR5;Q9UFE4}

7472 Pathogen[ P03363] interacts with 1 human partners: {Q9NVR5}

7473 [Cluster 680]GO:0061418+P

7474 Pathogen[ Q2Q067] interacts with 21 human partners: {P27540;P62837;P61077;P40337;O14867;Q15370;P51668;Q9Y2N7;Q9NWT6;Q15369;Q96KS0;Q9H6Z9;P0CG47;P0CG48;Q9GZT9;Q92793;P62987;Q99814;Q13617;P62877;P62979}

7475 Pathogen[ P0C214] interacts with 20 human partners: {Q13617;Q92793;Q96KS0;Q15370;P62877;P61077;Q9Y2N7;O14867;Q9H6Z9;P0CG48;Q15369;P40337;Q9GZT9;P62987;P0CG47;Q99814;P27540;P51668;P62979;Q9NWT6}

7476 Pathogen[ P03346] interacts with 21 human partners: {Q15370;P62987;P0CG48;P27540;P51668;P61077;O14867;P62877;Q9Y2N7;Q9GZT9;P62837;Q99814;P62979;P40337;Q15369;P0CG47;Q96KS0;Q9NWT6;Q92793;Q9H6Z9;Q13617}

7477 Pathogen[ Q85601] interacts with 21 human partners: {Q15370;Q9H6Z9;Q9Y2N7;P62877;P40337;Q9NWT6;Q99814;P27540;P0CG48;P51668;P61077;Q9GZT9;Q96KS0;Q15369;O14867;P62979;P62837;P0CG47;P62987;Q92793;Q13617}

7478 Pathogen[ P14079] interacts with 21 human partners: {O14867;Q9GZT9;Q99814;P0CG48;Q9Y2N7;Q92793;P62979;P61077;P62877;P62987;P40337;P51668;Q9NWT6;P27540;Q9H6Z9;Q15370;Q13617;P62837;Q15369;P0CG47;Q96KS0}

7479 Pathogen[ P03383] interacts with 18 human partners: {Q15369;Q9NWT6;P27540;P62987;P40337;Q96KS0;P61077;Q9Y2N7;Q9H6Z9;P62837;Q13617;P62979;P0CG47;P62877;Q15370;P0CG48;Q92793;P51668}

7480 Pathogen[ P03410] interacts with 21 human

7481 partners:{POCG48;Q9NWT6;Q96KS0;Q9H6Z9;Q99814;Q9Y2N7;Q15370;P62979;Q9GZT9;P27540;Q92793;Q15369;P62877;P51668;P62987;Q13617;O14867;POCG47;P40337;P61077;P62837}  
Pathogen[ P14075] interacts with 19 human

7482 partners:{Q96KS0;Q9GZT9;P62837;Q9Y2N7;P61077;P27540;POCG48;P62979;Q15370;P62987;Q9NWT6;POCG47;Q92793;P40337;P51668;Q13617;Q15369;P62877;Q9H6Z9}  
Pathogen[ POC206] interacts with 21 human

7483 partners:{POCG48;P62877;O14867;Q9Y2N7;Q96KS0;Q9GZT9;P62837;Q92793;Q13617;Q9NWT6;P62979;Q15370;POCG47;Q9H6Z9;P27540;P61077;Q99814;P62987;Q15369;P51668;P40337}  
Pathogen[ P03363] interacts with 15 human

7484 partners:{Q15370;P27540;Q9H6Z9;Q13617;O14867;Q15369;P40337;P62877;Q9Y2N7;P62987;Q99814;Q92793;P51668;P61077;P62837}  
[Cluster 681]GO:0019233+P biological\_process [name] sensory perception of pain [def] "The series of events required for an organism to receive a painful stimulus, convert it to a molecular signal, and recognize and characterize the signal. Pain is medically defined as the physical sensation of discomfort or distress caused by injury or illness, so can hence be described as a harmful stimulus which signals current (or impending) tissue damage. Pain may come from extremes of temperature, mechanical damage, electricity or from noxious chemical substances. This is a neurological process." [http

7485 Pathogen[ Q2Q067] interacts with 2 human partners:{P09917;Q99608}  
7486 Pathogen[ POC214] interacts with 2 human partners:{P09917;Q99608}  
7487 Pathogen[ P03346] interacts with 4 human partners:{P09917;P17481;Q99608;Q15700}  
7488 Pathogen[ Q85601] interacts with 2 human partners:{P09917;Q99608}  
7489 Pathogen[ P14079] interacts with 4 human partners:{Q15700;Q99608;P09917;Q9H6L5}  
7490 Pathogen[ P03383] interacts with 1 human partners:{Q99608}  
7491 Pathogen[ P03410] interacts with 4 human partners:{Q99608;Q9H6L5;Q15700;P09917}  
7492 Pathogen[ P14075] interacts with 1 human partners:{Q99608}  
7493 Pathogen[ POC206] interacts with 4 human partners:{P09917;Q15700;Q9H6L5;Q99608}  
7494 Pathogen[ P03363] interacts with 3 human partners:{P17481;Q15700;Q99608}

7495 [Cluster 682]GO:0015893+P biological\_process [name] drug transport [def] "The directed movement of a drug, a substance used in the diagnosis, treatment or prevention of a disease, into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore." [GOC

7496 Pathogen[ Q2Q067] interacts with 1 human partners:{Q5T2W1}  
7497 Pathogen[ POC214] interacts with 1 human partners:{Q5T2W1}  
7498 Pathogen[ P03346] interacts with 1 human partners:{Q5T2W1}  
7499 Pathogen[ Q85601] interacts with 1 human partners:{Q5T2W1}  
7500 Pathogen[ P14079] interacts with 1 human partners:{Q5T2W1}  
7501 Pathogen[ P03383] interacts with 1 human partners:{Q5T2W1}  
7502 Pathogen[ P03410] interacts with 1 human partners:{Q5T2W1}  
7503 Pathogen[ P14075] interacts with 1 human partners:{Q5T2W1}  
7504 Pathogen[ POC206] interacts with 1 human partners:{Q5T2W1}  
7505 Pathogen[ P03363] interacts with 1 human partners:{Q5T2W1}

7506 [Cluster 683]GO:0071877+P biological\_process [name] regulation of adrenergic receptor signaling pathway [def] "Any process that modulates the frequency, rate or extent of an adrenergic receptor signaling pathway activity. An adrenergic receptor signaling pathway is the series of molecular signals generated as a consequence of an adrenergic receptor binding to one of its physiological ligands." [GOC

7507 Pathogen[ Q2Q067] interacts with 1 human partners:{P41220}  
7508 Pathogen[ POC214] interacts with 1 human partners:{P41220}  
7509 Pathogen[ P03346] interacts with 1 human partners:{P41220}  
7510 Pathogen[ Q85601] interacts with 1 human partners:{P41220}  
7511 Pathogen[ P14079] interacts with 1 human partners:{P41220}  
7512 Pathogen[ P03383] interacts with 1 human partners:{P41220}  
7513 Pathogen[ P03410] interacts with 1 human partners:{P41220}  
7514 Pathogen[ P14075] interacts with 1 human partners:{P41220}  
7515 Pathogen[ POC206] interacts with 1 human partners:{P41220}  
7516 Pathogen[ P03363] interacts with 1 human partners:{P41220}

7517 [Cluster 684]GO:0016202+P biological\_process [name] regulation of striated muscle tissue development [def] "Any process that modulates the frequency, rate or extent of striated muscle development." [GOC

7518 Pathogen[ Q2Q067] interacts with 2 human partners:{P49454;P84022}  
7519 Pathogen[ POC214] interacts with 2 human partners:{P84022;P49454}  
7520 Pathogen[ P03346] interacts with 3 human partners:{P84022;P58546;P49454}  
7521 Pathogen[ Q85601] interacts with 2 human partners:{P49454;P84022}  
7522 Pathogen[ P14079] interacts with 1 human partners:{P49454}  
7523 Pathogen[ P03383] interacts with 2 human partners:{P49454;P84022}  
7524 Pathogen[ P03410] interacts with 2 human partners:{P84022;P49454}  
7525 Pathogen[ P14075] interacts with 2 human partners:{P84022;P49454}  
7526 Pathogen[ POC206] interacts with 2 human partners:{P84022;P49454}  
7527 Pathogen[ P03363] interacts with 2 human partners:{P49454;P84022}

7528 [Cluster 685]GO:0006987+P biological\_process [name] activation of signaling protein activity involved in unfolded protein response [def] "The conversion of a specific protein, possessing protein kinase and endoribonuclease activities, to an active form as a result of signaling via the unfolded protein response." [GOC

7529 Pathogen[ Q2Q067] interacts with 20 human  
partners:{P05198;P02545;Q9P0U4;P18847;P18850;P35638;Q9UBS4;Q14203;P27797;Q15173;Q9UB

7530 S3;Q9BQ90;P17861;P18848;Q93075;O14595;Q13105;Q9H2G4;P14625;Q14999}  
Pathogen[ POC214] interacts with 19 human  
partners: {P18850;P14625;O14595;Q14203;Q9UBS3;Q14999;Q9UBS4;P18848;Q15173;P17861;P18847;Q93075;Q9H2G4;P05198;P27797;P02545;Q13105;P35638;Q9BQ90}

7531 Pathogen[ P03346] interacts with 22 human  
partners: {Q9UBS3;P18847;P14625;P35638;P17861;Q9H2G4;Q14203;P02545;Q9BQ90;P18850;P18848;Q9P0U4;Q13105;P27797;Q9UBS4;Q9HCU5;Q14999;P51858;Q15173;Q93075;O14595;P05198}

7532 Pathogen[ Q85601] interacts with 21 human  
partners: {P02545;Q9UBS3;P18848;Q9UBS4;Q15173;P27797;Q14203;Q9P0U4;P18847;Q9BQ90;Q8N6T3;P18850;P05198;P14625;Q14999;Q9H2G4;Q93075;O14595;P17861;Q13105;P35638}

7533 Pathogen[ P14079] interacts with 27 human  
partners: {Q95070;O14773;Q9BQ90;P61421;Q15173;Q9UBS3;Q9UBS4;P43307;P05198;Q13105;P35611;Q9H2G4;Q9Y6X1;O95292;Q969H8;O14653;Q93075;P35638;Q9P0U4;P18850;P14625;Q96FC9;Q15011;P02545;Q14999;Q14203;O43731}

7534 Pathogen[ P03383] interacts with 18 human  
partners: {P02545;Q93075;Q15173;Q14203;P18847;P17861;P35638;Q9UBS4;Q9UBS3;Q13105;P05198;P14625;Q9H2G4;P18848;P18850;Q9BQ90;Q14999;P27797}

7535 Pathogen[ P03410] interacts with 30 human  
partners: {Q95292;P35638;P17861;Q9P0U4;P18847;P18848;P61421;Q15173;P14625;Q93075;Q9UBS3;P43307;Q9Y6X1;P02545;Q9HCU5;Q9UBS4;Q96FC9;Q15011;O14653;Q13105;O43731;Q9H2G4;P18850;P35611;Q9BQ90;Q95070;Q14203;Q5MNZ9;P05198;P27797}

7536 Pathogen[ P14075] interacts with 19 human  
partners: {Q9UBS3;Q13105;P17861;P18847;P35638;Q93075;Q9H2G4;P05198;Q14999;P02545;P27797;Q15173;P18848;Q15011;Q14203;Q9UBS4;P14625;P18850;Q9BQ90}

7537 Pathogen[ POC206] interacts with 26 human  
partners: {Q9P0U4;Q8N6T3;P27797;O14653;P18850;Q9UBS4;Q95070;Q15173;P17861;O95292;Q14999;P05198;Q93075;Q15011;Q9H2G4;O43731;Q9BQ90;P18847;P02545;Q9UBS3;O14595;Q14203;Q13105;P18848;P35638;P14625}

7538 Pathogen[ P03363] interacts with 20 human  
partners: {P51858;P18848;Q13105;P02545;Q93075;P18847;P18850;Q9UBS3;Q9P0U4;P05198;Q9BQ90;Q14999;Q9H2G4;P27797;Q9UBS4;P17861;P35638;Q15173;Q14203;O14595}

7539 [Cluster 686]GO:0045749+P biological\_process [name] negative regulation of S phase of mitotic cell cycle [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of S phase of mitotic cell cycle activity." [GOC]

7540 Pathogen[ Q2Q067] interacts with 8 human  
partners: {O00213;P06400;Q6P1J9;P41182;Q92870;Q9HD42;P51532;Q8N7H5}

7541 Pathogen[ POC214] interacts with 9 human  
partners: {O00213;Q9HD42;Q8IWE4;Q6P1J9;Q8N7H5;P41182;P06400;Q92870;P51532}

7542 Pathogen[ P03346] interacts with 10 human  
partners: {O00213;P06400;Q9HD42;P51532;Q8IWE4;Q92870;P41182;Q8IUI8;Q6P1J9;Q8N7H5}

7543 Pathogen[ Q85601] interacts with 9 human  
partners: {O00213;Q6P1J9;P06400;P51532;Q92870;Q8IWE4;P41182;Q9HD42;Q8N7H5}

7544 Pathogen[ P14079] interacts with 9 human  
partners: {P51532;Q9HD42;O00213;P41182;Q8IUI8;Q6P1J9;Q8N7H5;Q92870;Q8IWE4}

7545 Pathogen[ P03383] interacts with 8 human  
partners: {O00213;Q6P1J9;P06400;Q8IWE4;Q92870;Q9HD42;P51532;Q8N7H5}

7546 Pathogen[ P03410] interacts with 10 human  
partners: {Q8IWE4;O00213;P06400;Q8N7H5;Q9HD42;Q8IUI8;Q6P1J9;P41182;P51532;Q92870}

7547 Pathogen[ P14075] interacts with 7 human  
partners: {O00213;P51532;Q92870;Q8N7H5;Q6P1J9;P06400;Q9HD42}

7548 Pathogen[ POC206] interacts with 9 human  
partners: {P51532;P41182;Q8IWE4;O00213;Q8N7H5;Q92870;Q9HD42;Q6P1J9;P06400}

7549 Pathogen[ P03363] interacts with 7 human  
partners: {O00213;P51532;P06400;Q6P1J9;Q92870;Q8N7H5;Q9HD42}

7550 [Cluster 687]GO:0070423+P biological\_process [name] nucleotide-binding oligomerization domain containing signaling pathway [def] "Any series of molecular signals generated as a consequence of binding to a nucleotide-binding oligomerization domain containing (NOD) protein." [GOC]

7551 Pathogen[ Q2Q067] interacts with 15 human  
partners: {Q96J02;Q9NYJ8;Q14790;Q8N5C8;Q9Y6K9;P61088;P0CG47;O14920;P0CG48;O43318;P62987;Q13404;O15111;Q15750;P62979}

7552 Pathogen[ POC214] interacts with 15 human  
partners: {Q96J02;O15111;Q9Y6K9;Q13404;O43318;Q8N5C8;P0CG48;P62987;Q15750;P0CG47;P62979;O14920;Q9NYJ8;P61088;Q14790}

7553 Pathogen[ P03346] interacts with 15 human  
partners: {Q9Y6K9;Q96J02;O15111;P62987;P0CG48;Q13404;Q8N5C8;P61088;Q9NYJ8;Q15750;P62979;Q14790;P0CG47;O14920;O43318}

7554 Pathogen[ Q85601] interacts with 16 human  
partners: {Q96J02;Q15750;Q9NYJ8;O15111;Q14790;P0CG48;Q13404;Q8N5C8;Q9Y6K9;Q9NQC7;O14920;P62979;P0CG47;P62987;O43318;P61088}

7555 Pathogen[ P14079] interacts with 14 human  
partners: {Q8N5C8;P0CG48;O43187;P52564;Q13404;Q15750;P62979;P62987;Q14790;Q9Y6K9;Q96J02;P0CG47;Q9Y239;Q9NQC7}

7556 Pathogen[ P03383] interacts with 13 human  
partners: {Q9Y6K9;P62987;O14920;O15111;O43318;Q8N5C8;P61088;Q13404;P62979;P0CG47;P0CG48;Q9NYJ8;Q15750}



7557 Pathogen[ P03410] interacts with 15 human partners: {P0CG48;O14920;Q9Y239;O15111;Q15750;O43187;P61088;P62979;O43318;Q9NYJ8;Q8N5C8;P62987;Q13404;Q9Y6K9;P0CG47}

7558 Pathogen[ P14075] interacts with 13 human partners: {O15111;Q15750;P61088;Q8N5C8;O14920;P0CG48;P62979;O43318;P62987;P0CG47;Q13404;Q9Y6K9;Q9NYJ8}

7559 Pathogen[ P0C206] interacts with 16 human partners: {Q9NQC7;P0CG48;O14920;Q9Y6K9;Q8N5C8;Q96J02;O43318;P61088;O15111;P62979;Q14790;Q9NYJ8;P0CG47;Q15750;P62987;Q13404}

7560 Pathogen[ P03363] interacts with 10 human partners: {O14920;O15111;Q9NYJ8;Q9Y6K9;O43318;Q15750;P61088;P62987;Q13404;Q8N5C8}

7561 [Cluster 688]GO:0090009+P biological\_process [name] primitive streak formation [def] "The developmental process pertaining to the initial formation of the primitive streak from unspecified parts. The primitive streak is a ridge of cells running along the midline of the embryo where the mesoderm ingresses. It defines the anterior-posterior axis." [GOC

7562 Pathogen[ Q2Q067] interacts with 1 human partners: {P11831}

7563 Pathogen[ P0C214] interacts with 2 human partners: {P32243;P11831}

7564 Pathogen[ P03346] interacts with 2 human partners: {P11831;P32243}

7565 Pathogen[ Q85601] interacts with 2 human partners: {P11831;P32243}

7566 Pathogen[ P14079] interacts with 1 human partners: {P32243}

7567 Pathogen[ P03383] interacts with 2 human partners: {P11831;P32243}

7568 Pathogen[ P03410] interacts with 2 human partners: {P11831;P32243}

7569 Pathogen[ P14075] interacts with 2 human partners: {P11831;P32243}

7570 Pathogen[ P0C206] interacts with 2 human partners: {P32243;P11831}

7571 Pathogen[ P03363] interacts with 2 human partners: {P32243;P11831}

7572 [Cluster 689]GO:0030520+P biological\_process [name] intracellular estrogen receptor signaling pathway [def] "Any series of molecular signals generated as a consequence of an intracellular estrogen receptor binding to one of its physiological ligands. The pathway begins with receptor-ligand binding, and ends with regulation of a downstream cellular process (e.g. transcription)." [GOC

7573 Pathogen[ Q2Q067] interacts with 9 human partners: {Q12837;Q15424;O75528;O14497;O43251;Q96KS0;Q14686;Q15545;Q96PK6}

7574 Pathogen[ P0C214] interacts with 9 human partners: {O75528;O14497;Q96KS0;Q14686;Q15545;Q12837;Q96PK6;Q15424;O43251}

7575 Pathogen[ P03346] interacts with 9 human partners: {Q12837;O75528;O14497;O43251;Q96KS0;Q15424;Q15545;Q96PK6;Q14686}

7576 Pathogen[ Q85601] interacts with 8 human partners: {Q96PK6;O75528;Q15424;Q15545;O14497;Q14686;Q96KS0;Q12837}

7577 Pathogen[ P14079] interacts with 8 human partners: {O75528;O14497;Q12837;Q15424;Q96KS0;Q14686;Q96PK6;Q15545}

7578 Pathogen[ P03383] interacts with 8 human partners: {O14497;O75528;Q14686;Q96KS0;Q96PK6;Q12837;Q15424;Q15545}

7579 Pathogen[ P03410] interacts with 8 human partners: {Q96PK6;Q96KS0;O14497;Q14686;O75528;Q15424;Q12837;Q15545}

7580 Pathogen[ P14075] interacts with 8 human partners: {Q96KS0;Q14686;Q12837;O14497;O75528;Q96PK6;Q15424;Q15545}

7581 Pathogen[ P0C206] interacts with 8 human partners: {O75528;Q15545;Q96KS0;Q12837;O14497;Q96PK6;Q14686;Q15424}

7582 Pathogen[ P03363] interacts with 8 human partners: {O14497;Q15545;Q14686;Q96PK6;Q15424;Q12837;O43251;O75528}

7583 [Cluster 690]GO:0048168+P biological\_process [name] regulation of neuronal synaptic plasticity [def] "A process that modulates neuronal synaptic plasticity, the ability of neuronal synapses to change as circumstances require. They may alter function, such as increasing or decreasing their sensitivity, or they may increase or decrease in actual numbers." [GOC

7584 Pathogen[ Q2Q067] interacts with 3 human partners: {O14503;Q9UBB6;P11161}

7585 Pathogen[ P0C214] interacts with 3 human partners: {Q9UBB6;O14503;P11161}

7586 Pathogen[ P03346] interacts with 3 human partners: {O14503;P11161;Q9UBB6}

7587 Pathogen[ Q85601] interacts with 2 human partners: {O14503;P11161}

7588 Pathogen[ P14079] interacts with 3 human partners: {P11161;Q9UBB6;O14503}

7589 Pathogen[ P03383] interacts with 3 human partners: {Q9UBB6;O14503;P11161}

7590 Pathogen[ P03410] interacts with 2 human partners: {Q9UBB6;P11161}

7591 Pathogen[ P14075] interacts with 3 human partners: {P11161;O14503;Q9UBB6}

7592 Pathogen[ P0C206] interacts with 2 human partners: {P11161;Q9UBB6}

7593 Pathogen[ P03363] interacts with 3 human partners: {Q9UBB6;O14503;P11161}

7594 [Cluster 691]GO:0035646+P biological\_process [name] endosome to melanosome transport [def] "The directed movement of substances from endosomes to the melanosome, a specialised lysosome-related organelle." [PMID

7595 Pathogen[ Q2Q067] interacts with 4 human partners: {Q9UL45;Q6QNY0;Q8TDH9;Q9BXS5}

7596 Pathogen[ P0C214] interacts with 4 human partners: {Q8TDH9;Q6QNY0;Q9UL45;Q9BXS5}

7597 Pathogen[ P03346] interacts with 4 human partners: {Q9BXS5;Q6QNY0;Q9UL45;Q8TDH9}

7598 Pathogen[ Q85601] interacts with 3 human partners: {Q6QNY0;Q9BXS5;Q8TDH9}

7599 Pathogen[ P14079] interacts with 4 human partners: {Q9BXS5;Q6QNY0;Q9UL45;Q8TDH9}

7600 Pathogen[ P03383] interacts with 3 human partners: {Q6QNY0;Q8TDH9;Q9BXS5}

7601 Pathogen[ P03410] interacts with 4 human partners: {Q9BXS5;Q6QNY0;Q9UL45;Q8TDH9}

7602 Pathogen[ P14075] interacts with 3 human partners:{Q6QNY0;Q8TDH9;Q9BXS5}  
7603 Pathogen[ P0C206] interacts with 4 human partners:{Q9UL45;Q8TDH9;Q9BXS5;Q6QNY0}  
7604 Pathogen[ P03363] interacts with 3 human partners:{Q9BXS5;Q8TDH9;Q6QNY0}  
7605 [Cluster 692]GO:0015992+P biological\_process [name] proton transport [def] "The directed movement of protons (hydrogen ions) into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore." [GOC  
7606 Pathogen[ Q2Q067] interacts with 2 human partners:{P36543;P24539}  
7607 Pathogen[ P0C214] interacts with 6 human partners:{Q16864;Q9UI12;P36543;P36542;P24539;Q99766}  
7608 Pathogen[ P03346] interacts with 6 human partners:{P21283;Q9Y5K8;P36543;Q93050;P24539;Q16864}  
7609 Pathogen[ Q85601] interacts with 4 human partners:{P24539;Q93050;Q99766;P36543}  
7610 Pathogen[ P14079] interacts with 20 human partners:{P36543;P36542;Q9Y5K8;P56134;P25705;P61421;Q96LB4;P56385;Q5VTU8;Q7Z4Y8;P03928;Q8N8Y2;Q99766;O75964;Q93050;Q9UI12;P56381;O95670;Q16864;P24539}  
7611 Pathogen[ P03383] interacts with 2 human partners:{P36543;P24539}  
7612 Pathogen[ P03410] interacts with 23 human partners:{Q99766;Q8N8Y2;P36542;P25705;P61421;Q93050;P56385;P56381;Q5VTU8;P03928;Q9UI12;Q96LB4;P24539;O95670;O75964;Q96D96;Q16864;Q9Y5K8;P18859;O75348;P36543;P56134;Q7Z4Y8}  
7613 Pathogen[ P14075] interacts with 4 human partners:{Q99766;P24539;P56385;P36543}  
7614 Pathogen[ P0C206] interacts with 10 human partners:{P36543;Q99766;P36542;Q9UI12;P24539;Q9Y5K8;Q16864;P56381;P56385;Q93050}  
7615 Pathogen[ P03363] interacts with 2 human partners:{P36543;Q9Y5K8}  
7616 [Cluster 693]GO:0007029+P biological\_process [name] endoplasmic reticulum organization [def] "A process that is carried out at the cellular level which results in the assembly, arrangement of constituent parts, or disassembly of the endoplasmic reticulum." [GOC  
7617 Pathogen[ Q2Q067] interacts with 3 human partners:{O15027;Q9Y3R5;Q96JE7}  
7618 Pathogen[ P0C214] interacts with 3 human partners:{Q9Y3R5;Q96JE7;O15027}  
7619 Pathogen[ P03346] interacts with 5 human partners:{O15027;Q12981;Q9Y3R5;Q96JE7;P50542}  
7620 Pathogen[ Q85601] interacts with 4 human partners:{O15027;Q96JE7;Q12981;Q9Y3R5}  
7621 Pathogen[ P14079] interacts with 6 human partners:{O15027;Q96JE7;P50542;Q12981;Q9NZ43;Q9Y3R5}  
7622 Pathogen[ P03383] interacts with 3 human partners:{Q9Y3R5;O15027;Q96JE7}  
7623 Pathogen[ P03410] interacts with 5 human partners:{Q9NZ43;Q96JE7;P50542;O15027;Q12981}  
7624 Pathogen[ P14075] interacts with 3 human partners:{Q96JE7;O15027;Q9Y3R5}  
7625 Pathogen[ P0C206] interacts with 5 human partners:{Q9Y3R5;P50542;Q96JE7;Q12981;O15027}  
7626 Pathogen[ P03363] interacts with 1 human partners:{Q9Y3R5}  
7627 [Cluster 694]GO:0006921+P biological\_process [name] cellular component disassembly involved in apoptosis [def] "The breakdown of structures such as organelles, proteins, or other macromolecular structures during apoptosis." [GOC  
7628 Pathogen[ Q2Q067] interacts with 20 human partners:{Q14974;P02545;P20700;O00273;P15924;Q13794;Q14790;Q07157;P55212;P06396;Q9UDY2;P49354;Q96BY2;Q9UKV3;Q01826;P08670;Q13490;Q9HAW4;P52294;O76075}  
7629 Pathogen[ P0C214] interacts with 22 human partners:{P49354;Q13490;Q96BY2;P55212;P15924;P06396;P20700;Q9HAW4;Q13794;O00273;P52294;P08670;P42574;Q9UDY2;Q01826;Q9UKV3;Q14974;P02545;P55210;Q07157;O76075;Q14790}  
7630 Pathogen[ P03346] interacts with 25 human partners:{P15924;Q9UDY2;P20700;Q15149;Q13835;P42574;P55212;Q96BY2;P02545;Q9UKV3;Q13813;Q9HAW4;P49354;Q07157;P08670;O76075;Q14790;Q13490;P55210;P06396;P52294;Q01826;Q13794;O00273;Q14974}  
7631 Pathogen[ Q85601] interacts with 21 human partners:{P20700;P02545;Q13490;P06396;P08670;Q14790;Q9UDY2;Q96BY2;O76075;Q14974;P15924;P49354;Q9UKV3;Q9HAW4;O00273;Q01826;Q07157;P55212;P52294;Q13794;P55210}  
7632 Pathogen[ P14079] interacts with 28 human partners:{O76075;Q9UDY2;P49354;P15924;Q07157;Q13835;P52294;Q01826;P55212;P35611;Q15149;Q9HAW4;Q14790;Q96BY2;Q9UKV3;P55210;Q14974;Q13794;O43903;P20700;P08670;Q16625;P02545;Q13813;P07305;O00273;Q13490;P10636}  
7633 Pathogen[ P03383] interacts with 17 human partners:{P02545;P15924;P55212;P08670;Q01826;Q13490;Q07157;O00273;P20700;Q9UKV3;Q9HAW4;Q14974;Q13794;P52294;Q9UDY2;Q96BY2;P06396}  
7634 Pathogen[ P03410] interacts with 27 human partners:{P49354;P15924;Q14974;O43903;P52294;P06396;O76075;Q13490;P20700;O00273;Q96BY2;Q9HAW4;Q13794;Q13835;Q9UDY2;Q9UKV3;Q07157;P02545;Q01826;P08670;Q16625;P10636;Q15149;P55212;Q13813;P35611;P55210}  
7635 Pathogen[ P14075] interacts with 17 human partners:{Q96BY2;O00273;Q07157;P55212;P20700;Q9UKV3;Q01826;Q9HAW4;P52294;P02545;Q13490;P06396;Q13794;P08670;Q9UDY2;Q14974;P15924}  
7636 Pathogen[ P0C206] interacts with 24 human partners:{P06396;O76075;Q14974;P55212;Q9UDY2;P10636;P49354;Q13835;Q96BY2;Q14790;P42574;P15924;Q07157;P02545;Q01826;P20700;P08670;P52294;Q9HAW4;P55210;O00273;Q9UKV3;Q13794;Q13490}

7637 Pathogen[ P03363] interacts with 23 human partners:{Q13490;O00273;Q13835;Q9HAW4;P02545;Q9UKV3;Q13794;P20700;Q01826;P49354;Q07157;P15924;P06396;P55212;Q15149;Q96BY2;O76075;P08670;Q14974;Q9UDY2;P55210;Q13813;P52294}

7638 [Cluster 695]GO:0001919+P biological\_process [name] regulation of receptor recycling [def] "Any process that modulates the frequency, rate, or extent of receptor recycling." [GOC]

7639 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NZZ3}

7640 Pathogen[ P0C214] interacts with 1 human partners:{Q9NZZ3}

7641 Pathogen[ P03346] interacts with 1 human partners:{Q9NZZ3}

7642 Pathogen[ Q85601] interacts with 1 human partners:{Q9NZZ3}

7643 Pathogen[ P14079] interacts with 2 human partners:{Q6IAA8;Q9NZZ3}

7644 Pathogen[ P03383] interacts with 1 human partners:{Q9NZZ3}

7645 Pathogen[ P03410] interacts with 2 human partners:{Q9NZZ3;Q6IAA8}

7646 Pathogen[ P14075] interacts with 1 human partners:{Q9NZZ3}

7647 Pathogen[ P0C206] interacts with 1 human partners:{Q9NZZ3}

7648 Pathogen[ P03363] interacts with 1 human partners:{Q9NZZ3}

7649 [Cluster 696]GO:0006407+P biological\_process [name] rRNA export from nucleus [def] "The directed movement of rRNA from the nucleus to the cytoplasm\_ the rRNA is usually in the form of ribonucleoproteins." [GOC]

7650 Pathogen[ Q2Q067] interacts with 1 human partners:{P08865}

7651 Pathogen[ P0C214] interacts with 1 human partners:{P08865}

7652 Pathogen[ P03346] interacts with 1 human partners:{P08865}

7653 Pathogen[ Q85601] interacts with 1 human partners:{P08865}

7654 Pathogen[ P14079] interacts with 1 human partners:{P08865}

7655 Pathogen[ P03383] interacts with 1 human partners:{P08865}

7656 Pathogen[ P03410] interacts with 1 human partners:{P08865}

7657 Pathogen[ P14075] interacts with 1 human partners:{P08865}

7658 Pathogen[ P0C206] interacts with 1 human partners:{P08865}

7659 Pathogen[ P03363] interacts with 1 human partners:{P08865}

7660 [Cluster 697]GO:0001510+P biological\_process [name] RNA methylation [def] "Posttranscriptional addition of a methyl group to either a nucleotide or 2'-O ribose in a polyribonucleotide. Usually uses S-adenosylmethionine as a cofactor." [GOC]

7661 Pathogen[ Q2Q067] interacts with 5 human partners:{Q96RS0;Q7Z5W3;Q9UI43;Q5T8I9;Q8IY81}

7662 Pathogen[ P0C214] interacts with 8 human partners:{Q9UET6;Q7Z5W3;Q5T8I9;Q9UI43;Q8IY81;Q96RS0;Q9HCE5;Q6IN84}

7663 Pathogen[ P03346] interacts with 9 human partners:{Q9HCE5;Q5T8I9;Q86U44;Q96RS0;Q8IY81;Q6IN84;Q7Z5W3;Q13395;Q9UI43}

7664 Pathogen[ Q85601] interacts with 7 human partners:{Q7Z5W3;Q5T8I9;Q9UI43;Q9UET6;Q96RS0;Q8IY81;Q9HCE5}

7665 Pathogen[ P14079] interacts with 11 human partners:{Q96RS0;Q9UI43;Q9HC36;Q7L2J0;Q8IY81;Q9HCE5;Q86U44;Q9UET6;Q6IN84;Q13395;Q7Z5W3}

7666 Pathogen[ P03383] interacts with 6 human partners:{Q5T8I9;Q9UI43;Q9UET6;Q8IY81;Q96RS0;Q7Z5W3}

7667 Pathogen[ P03410] interacts with 12 human partners:{Q96RS0;Q9HCE5;Q9HC36;Q5T8I9;Q13395;Q6IN84;Q7Z5W3;Q9UI43;Q7L2J0;Q8IY81;Q86U44;Q9UET6}

7668 Pathogen[ P14075] interacts with 7 human partners:{Q6IN84;Q9UET6;Q8IY81;Q7Z5W3;Q9UI43;Q5T8I9;Q96RS0}

7669 Pathogen[ P0C206] interacts with 9 human partners:{Q96RS0;Q9UI43;Q9UET6;Q7Z5W3;Q5T8I9;Q9HCE5;Q6IN84;Q7L2J0;Q8IY81}

7670 Pathogen[ P03363] interacts with 9 human partners:{Q96RS0;Q5T8I9;Q9UET6;Q86U44;Q8IY81;Q13395;Q9HCE5;Q7Z5W3;Q9UI43}

7671 [Cluster 698]GO:2000352+P biological\_process [name] negative regulation of endothelial cell apoptosis [def] "Any process that stops, prevents or reduces the frequency, rate or extent of endothelial cell apoptosis." [GOC]

7672 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8NFX5}

7673 Pathogen[ P0C214] interacts with 1 human partners:{Q8NFX5}

7674 Pathogen[ P03346] interacts with 2 human partners:{Q8NFX5;O00522}

7675 Pathogen[ Q85601] interacts with 1 human partners:{Q8NFX5}

7676 Pathogen[ P14079] interacts with 3 human partners:{O60895;Q8NFX5;O00522}

7677 Pathogen[ P03383] interacts with 1 human partners:{Q8NFX5}

7678 Pathogen[ P03410] interacts with 3 human partners:{Q8NFX5;O60895;O00522}

7679 Pathogen[ P14075] interacts with 1 human partners:{Q8NFX5}

7680 Pathogen[ P0C206] interacts with 2 human partners:{Q8NFX5;O00522}

7681 Pathogen[ P03363] interacts with 2 human partners:{O00522;Q8NFX5}

7682 [Cluster 699]GO:0031508+P biological\_process [name] centromeric heterochromatin assembly [def] "The assembly of chromatin into heterochromatin near the centromere." [GOC]

7683 Pathogen[ Q2Q067] interacts with 1 human partners:{Q7Z7K6}

7684 Pathogen[ P0C214] interacts with 1 human partners:{Q7Z7K6}

7685 Pathogen[ P03346] interacts with 2 human partners:{Q9NRZ9;Q7Z7K6}

7686 Pathogen[ Q85601] interacts with 1 human partners:{Q7Z7K6}

7687 Pathogen[ P14079] interacts with 1 human partners:{Q7Z7K6}

7688 Pathogen[ P03383] interacts with 1 human partners:{Q7Z7K6}

7689 Pathogen[ P03410] interacts with 1 human partners:{Q7Z7K6}

7690 Pathogen[ P14075] interacts with 1 human partners:{Q7Z7K6}

7691 Pathogen[ P0C206] interacts with 2 human partners:{Q7Z7K6;Q9NRZ9}

7692 Pathogen[ P03363] interacts with 1 human partners:{Q7Z7K6}

7693 [Cluster 700]GO:0045730+P biological\_process [name] respiratory burst [def] "A phase of elevated metabolic activity, during which oxygen consumption increases\_ this leads to the production, by an NADH dependent system, of hydrogen peroxide (H2O2), superoxide anions and hydroxyl radicals." [ISBN

7694 Pathogen[ Q2Q067] interacts with 2 human partners:{P25063;P18669}

7695 Pathogen[ P0C214] interacts with 1 human partners:{P25063}

7696 Pathogen[ P03346] interacts with 2 human partners:{P18669;P25063}

7697 Pathogen[ Q85601] interacts with 1 human partners:{P18669}

7698 Pathogen[ P14079] interacts with 4 human partners:{P13498;P31358;P25063;P18669}

7699 Pathogen[ P03383] interacts with 2 human partners:{P18669;P25063}

7700 Pathogen[ P03410] interacts with 3 human partners:{P31358;P25063;P18669}

7701 Pathogen[ P14075] interacts with 2 human partners:{P18669;P25063}

7702 Pathogen[ P0C206] interacts with 2 human partners:{P25063;P18669}

7703 Pathogen[ P03363] interacts with 1 human partners:{P18669}

7704 [Cluster 701]GO:0070886+P biological\_process [name] positive regulation of calcineurin-NFAT signaling pathway [def] "Any process that activates or increases the frequency, rate or extent of signaling via the calcineurin-NFAT signaling pathway." [GOC

7705 Pathogen[ Q2Q067] interacts with 1 human partners:{O43745}

7706 Pathogen[ P0C214] interacts with 1 human partners:{O43745}

7707 Pathogen[ P03346] interacts with 2 human partners:{Q9NZU5;O43745}

7708 Pathogen[ Q85601] interacts with 2 human partners:{Q9NZU5;O43745}

7709 Pathogen[ P14079] interacts with 2 human partners:{O43745;Q9NZU5}

7710 Pathogen[ P03383] interacts with 1 human partners:{O43745}

7711 Pathogen[ P03410] interacts with 1 human partners:{O43745}

7712 Pathogen[ P14075] interacts with 1 human partners:{O43745}

7713 Pathogen[ P0C206] interacts with 2 human partners:{Q9NZU5;O43745}

7714 Pathogen[ P03363] interacts with 2 human partners:{Q9NZU5;O43745}

7715 [Cluster 702]GO:2000178+P biological\_process [name] negative regulation of neural precursor cell proliferation [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of neural precursor cell proliferation." [GOC

7716 Pathogen[ Q2Q067] interacts with 3 human partners:{Q8NHM5;P23769;P78543}

7717 Pathogen[ P0C214] interacts with 3 human partners:{P78543;P23769;Q8NHM5}

7718 Pathogen[ P03346] interacts with 3 human partners:{P23769;Q8NHM5;P78543}

7719 Pathogen[ Q85601] interacts with 3 human partners:{P23769;P78543;Q8NHM5}

7720 Pathogen[ P14079] interacts with 3 human partners:{P78543;Q8NHM5;P23769}

7721 Pathogen[ P03383] interacts with 2 human partners:{P23769;P78543}

7722 Pathogen[ P03410] interacts with 2 human partners:{P78543;P23769}

7723 Pathogen[ P14075] interacts with 2 human partners:{P23769;P78543}

7724 Pathogen[ P0C206] interacts with 3 human partners:{Q8NHM5;P23769;P78543}

7725 Pathogen[ P03363] interacts with 1 human partners:{P78543}

7726 [Cluster 703]GO:0032020+P biological\_process [name] ISG15-protein conjugation [def] "The covalent addition to a protein of ISG15, a ubiquitin-like protein." [GOC

7727 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9UII4;P51965;O14933}

7728 Pathogen[ P0C214] interacts with 4 human partners:{O14933;P51965;Q9UII4;Q96LR5}

7729 Pathogen[ P03346] interacts with 3 human partners:{Q9UII4;P51965;O14933}

7730 Pathogen[ Q85601] interacts with 3 human partners:{O14933;Q96LR5;P51965}

7731 Pathogen[ P14079] interacts with 2 human partners:{P51965;O14933}

7732 Pathogen[ P03383] interacts with 2 human partners:{O14933;P51965}

7733 Pathogen[ P03410] interacts with 2 human partners:{P51965;O14933}

7734 Pathogen[ P14075] interacts with 2 human partners:{P51965;O14933}

7735 Pathogen[ P0C206] interacts with 3 human partners:{O14933;Q96LR5;P51965}

7736 Pathogen[ P03363] interacts with 3 human partners:{P51965;O14933;Q9UII4}

7737 [Cluster 704]GO:2000677+P biological\_process [name] regulation of transcription regulatory region DNA binding [def] "Any process that modulates the frequency, rate or extent of transcription regulatory region DNA binding." [GOC

7738 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8TEK3}

7739 Pathogen[ P0C214] interacts with 1 human partners:{Q8TEK3}

7740 Pathogen[ P03346] interacts with 1 human partners:{Q8TEK3}

7741 Pathogen[ Q85601] interacts with 1 human partners:{Q8TEK3}

7742 Pathogen[ P14079] interacts with 1 human partners:{Q8TEK3}

7743 Pathogen[ P03383] interacts with 1 human partners:{Q8TEK3}

7744 Pathogen[ P03410] interacts with 1 human partners:{Q8TEK3}

7745 Pathogen[ P14075] interacts with 1 human partners:{Q8TEK3}

7746 Pathogen[ P0C206] interacts with 1 human partners:{Q8TEK3}

7747 Pathogen[ P03363] interacts with 1 human partners:{Q8TEK3}

7748 [Cluster 705]GO:0010803+P biological\_process [name] regulation of tumor necrosis factor-mediated signaling pathway [def] "Any process that modulates the rate or extent of the tumor necrosis factor-mediated signaling pathway. The tumor necrosis factor-mediated signaling pathway is the series of molecular signals generated as a consequence of tumor necrosis factor binding to a cell surface receptor." [GOC

7749 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9H0F6}

7750 Pathogen[ P0C214] interacts with 1 human partners:{Q9H0F6}  
7751 Pathogen[ P03346] interacts with 2 human partners:{Q9H0F6;Q86Z02}  
7752 Pathogen[ Q85601] interacts with 1 human partners:{Q9H0F6}  
7753 Pathogen[ P14079] interacts with 1 human partners:{Q9H0F6}  
7754 Pathogen[ P03383] interacts with 1 human partners:{Q9H0F6}  
7755 Pathogen[ P03410] interacts with 1 human partners:{Q9H0F6}  
7756 Pathogen[ P14075] interacts with 1 human partners:{Q9H0F6}  
7757 Pathogen[ P0C206] interacts with 1 human partners:{Q9H0F6}  
7758 Pathogen[ P03363] interacts with 1 human partners:{Q9H0F6}  
7759 [Cluster 706]GO:0019441+P biological\_process [name] tryptophan catabolic process to  
kynurenine [def] "The chemical reactions and pathways resulting in the breakdown of  
tryptophan into other compounds, including kynurenine." [GOC  
7760 Pathogen[ Q2Q067] interacts with 2 human partners:{Q63HM1;Q16719}  
7761 Pathogen[ P0C214] interacts with 2 human partners:{Q63HM1;Q16719}  
7762 Pathogen[ P03346] interacts with 2 human partners:{Q63HM1;Q16719}  
7763 Pathogen[ Q85601] interacts with 2 human partners:{Q16719;Q63HM1}  
7764 Pathogen[ P14079] interacts with 3 human partners:{P48775;Q63HM1;Q16719}  
7765 Pathogen[ P03383] interacts with 2 human partners:{Q63HM1;Q16719}  
7766 Pathogen[ P03410] interacts with 3 human partners:{Q16719;Q63HM1;P48775}  
7767 Pathogen[ P14075] interacts with 2 human partners:{Q16719;Q63HM1}  
7768 Pathogen[ P0C206] interacts with 2 human partners:{Q16719;Q63HM1}  
7769 Pathogen[ P03363] interacts with 1 human partners:{Q63HM1}  
7770 [Cluster 707]GO:0006428+P biological\_process [name] isoleucyl-tRNA aminoacylation  
[def] "The process of coupling isoleucine to isoleucyl-tRNA, catalyzed by isoleucyl-tRNA  
synthetase. In tRNA aminoacylation, the amino acid is first activated by linkage to AMP  
and then transferred to either the 2'- or the 3'-hydroxyl group of the 3'-adenosine  
residue of the tRNA." [GOC  
7771 Pathogen[ Q2Q067] interacts with 1 human partners:{P41252}  
7772 Pathogen[ P0C214] interacts with 2 human partners:{Q9NSE4;P41252}  
7773 Pathogen[ P03346] interacts with 1 human partners:{P41252}  
7774 Pathogen[ Q85601] interacts with 1 human partners:{P41252}  
7775 Pathogen[ P14079] interacts with 2 human partners:{P41252;Q9NSE4}  
7776 Pathogen[ P03383] interacts with 1 human partners:{P41252}  
7777 Pathogen[ P03410] interacts with 2 human partners:{Q9NSE4;P41252}  
7778 Pathogen[ P14075] interacts with 2 human partners:{P41252;Q9NSE4}  
7779 Pathogen[ P0C206] interacts with 2 human partners:{Q9NSE4;P41252}  
7780 Pathogen[ P03363] interacts with 1 human partners:{P41252}  
7781 [Cluster 708]GO:0042278+P biological\_process [name] purine nucleoside metabolic  
process [def] "The chemical reactions and pathways involving one of a family of organic  
molecules consisting of a purine base covalently bonded to a sugar ribose (a  
ribonucleoside) or deoxyribose (a deoxyribonucleoside)." [GOC  
7782 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BQ69}  
7783 Pathogen[ P0C214] interacts with 1 human partners:{Q9BQ69}  
7784 Pathogen[ P03346] interacts with 1 human partners:{Q9BQ69}  
7785 Pathogen[ Q85601] interacts with 1 human partners:{Q9BQ69}  
7786 Pathogen[ P14079] interacts with 1 human partners:{Q9Y530}  
7787 Pathogen[ P03383] interacts with 1 human partners:{Q9BQ69}  
7788 Pathogen[ P03410] interacts with 2 human partners:{Q9Y530;Q9BQ69}  
7789 Pathogen[ P14075] interacts with 1 human partners:{Q9BQ69}  
7790 Pathogen[ P0C206] interacts with 2 human partners:{Q9Y530;Q9BQ69}  
7791 Pathogen[ P03363] interacts with 1 human partners:{Q9BQ69}  
7792 [Cluster 709]GO:2000348+P biological\_process [name] regulation of CD40 signaling  
pathway [def] "Any process that modulates the frequency, rate or extent of signaling via  
the CD40 signaling pathway." [GOC  
7793 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9H0F6}  
7794 Pathogen[ P0C214] interacts with 1 human partners:{Q9H0F6}  
7795 Pathogen[ P03346] interacts with 1 human partners:{Q9H0F6}  
7796 Pathogen[ Q85601] interacts with 1 human partners:{Q9H0F6}  
7797 Pathogen[ P14079] interacts with 1 human partners:{Q9H0F6}  
7798 Pathogen[ P03383] interacts with 1 human partners:{Q9H0F6}  
7799 Pathogen[ P03410] interacts with 1 human partners:{Q9H0F6}  
7800 Pathogen[ P14075] interacts with 1 human partners:{Q9H0F6}  
7801 Pathogen[ P0C206] interacts with 1 human partners:{Q9H0F6}  
7802 Pathogen[ P03363] interacts with 1 human partners:{Q9H0F6}  
7803 [Cluster 710]GO:0045086+P biological\_process [name] positive regulation of  
interleukin-2 biosynthetic process [def] "Any process that activates or increases the  
frequency, rate or extent of the chemical reactions and pathways resulting in the  
formation of interleukin-2." [GOC  
7804 Pathogen[ Q2Q067] interacts with 2 human partners:{Q92990;Q15306}  
7805 Pathogen[ P0C214] interacts with 1 human partners:{Q15306}  
7806 Pathogen[ P03346] interacts with 2 human partners:{Q92990;Q15306}  
7807 Pathogen[ Q85601] interacts with 1 human partners:{Q15306}  
7808 Pathogen[ P14079] interacts with 3 human partners:{Q9BXL7;Q15306;Q92990}  
7809 Pathogen[ P03383] interacts with 2 human partners:{Q15306;Q92990}  
7810 Pathogen[ P03410] interacts with 3 human partners:{Q15306;Q9BXL7;Q92990}  
7811 Pathogen[ P14075] interacts with 2 human partners:{Q92990;Q15306}

7812 Pathogen[ P0C206] interacts with 2 human partners:{Q15306;Q92990}  
7813 Pathogen[ P03363] interacts with 2 human partners:{Q92990;Q15306}  
7814 [Cluster 711]GO:0061312+P biological\_process [name] BMP signaling pathway involved in heart development [def] "A series of molecular signals generated as a consequence of any member of the BMP (bone morphogenetic protein) family binding to a cell surface receptor and contributing to the progression of the heart over time." [GOC  
7815 Pathogen[ Q2Q067] interacts with 1 human partners:{P35548}  
7816 Pathogen[ P0C214] interacts with 1 human partners:{P35548}  
7817 Pathogen[ P03346] interacts with 1 human partners:{P35548}  
7818 Pathogen[ Q85601] interacts with 1 human partners:{P35548}  
7819 Pathogen[ P14079] interacts with 1 human partners:{P28360}  
7820 Pathogen[ P03383] interacts with 1 human partners:{P35548}  
7821 Pathogen[ P03410] interacts with 1 human partners:{P35548}  
7822 Pathogen[ P14075] interacts with 1 human partners:{P35548}  
7823 Pathogen[ P0C206] interacts with 1 human partners:{P35548}  
7824 Pathogen[ P03363] interacts with 1 human partners:{P35548}  
7825 [Cluster 712]GO:0045736+P biological\_process [name] negative regulation of cyclin-dependent protein kinase activity [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of CDK activity." [GOC  
7826 Pathogen[ Q2Q067] interacts with 8 human partners:{Q01664;Q96MH2;O94992;Q92831;O00255;P38936;P42771;P46527}  
7827 Pathogen[ P0C214] interacts with 9 human partners:{P46527;P38936;Q96MH2;P42574;P42771;O94992;Q92831;Q01664;O00255}  
7828 Pathogen[ P03346] interacts with 9 human partners:{P42574;Q92831;P42771;O00255;O94992;Q96MH2;P38936;P46527;Q01664}  
7829 Pathogen[ Q85601] interacts with 8 human partners:{Q96MH2;Q92831;O00255;P42771;O94992;P38936;Q01664;P46527}  
7830 Pathogen[ P14079] interacts with 8 human partners:{P38936;Q01664;O94992;Q96SZ6;P46527;Q96MH2;O00255;P42771}  
7831 Pathogen[ P03383] interacts with 7 human partners:{Q96MH2;Q92831;Q01664;P46527;O00255;O94992;P42771}  
7832 Pathogen[ P03410] interacts with 8 human partners:{Q92831;P42771;P46527;P38936;Q01664;O00255;O94992;Q96MH2}  
7833 Pathogen[ P14075] interacts with 7 human partners:{Q92831;Q96MH2;P42771;P46527;O94992;O00255;Q01664}  
7834 Pathogen[ P0C206] interacts with 9 human partners:{O00255;Q96MH2;P42771;Q92831;O94992;P46527;P38936;P42574;Q01664}  
7835 Pathogen[ P03363] interacts with 5 human partners:{O94992;Q92831;Q96MH2;Q01664;P42771}  
7836 [Cluster 713]GO:0045682+P biological\_process [name] regulation of epidermis development [def] "Any process that modulates the frequency, rate or extent of epidermis development." [GOC  
7837 Pathogen[ Q2Q067] interacts with 4 human partners:{P22392;Q92754;Q15742;Q13506}  
7838 Pathogen[ P0C214] interacts with 4 human partners:{Q15742;Q13506;Q92754;P22392}  
7839 Pathogen[ P03346] interacts with 4 human partners:{Q92754;Q15742;Q13506;P22392}  
7840 Pathogen[ Q85601] interacts with 4 human partners:{Q92754;Q13506;Q15742;P22392}  
7841 Pathogen[ P14079] interacts with 4 human partners:{Q13506;Q15742;P22392;Q92754}  
7842 Pathogen[ P03383] interacts with 4 human partners:{P22392;Q15742;Q13506;Q92754}  
7843 Pathogen[ P03410] interacts with 3 human partners:{Q15742;Q92754;Q13506}  
7844 Pathogen[ P14075] interacts with 4 human partners:{Q13506;Q92754;Q15742;P22392}  
7845 Pathogen[ P0C206] interacts with 4 human partners:{P22392;Q92754;Q15742;Q13506}  
7846 Pathogen[ P03363] interacts with 3 human partners:{Q13506;Q15742;Q92754}  
7847 [Cluster 714]GO:0019079+P biological\_process [name] viral genome replication [def] "Any process involved directly in viral genome replication, including viral nucleotide metabolism." [ISBN  
7848 Pathogen[ Q2Q067] interacts with 4 human partners:{Q9NZI7;Q13363;O43504;Q12857}  
7849 Pathogen[ P0C214] interacts with 4 human partners:{Q13363;Q9NZI7;Q12857;O43504}  
7850 Pathogen[ P03346] interacts with 7 human partners:{Q12857;P35659;O43504;Q13363;P56545;Q9NZI7;O43719}  
7851 Pathogen[ Q85601] interacts with 3 human partners:{Q12857;Q13363;Q9NZI7}  
7852 Pathogen[ P14079] interacts with 4 human partners:{Q9NZI7;P35659;O43504;Q12857}  
7853 Pathogen[ P03383] interacts with 4 human partners:{Q12857;O43504;Q9NZI7;Q13363}  
7854 Pathogen[ P03410] interacts with 4 human partners:{O43504;Q12857;P35659;Q9NZI7}  
7855 Pathogen[ P14075] interacts with 5 human partners:{P35659;Q9NZI7;Q12857;O43504;Q13363}  
7856 Pathogen[ P0C206] interacts with 5 human partners:{Q9NZI7;O43504;Q12857;P35659;Q13363}  
7857 Pathogen[ P03363] interacts with 7 human partners:{P35659;P56545;O43504;Q9NZI7;Q13363;Q12857;O43719}  
7858 [Cluster 715]GO:0008333+P biological\_process [name] endosome to lysosome transport [def] "The directed movement of substances from endosomes to lysosomes." [GOC  
7859 Pathogen[ Q2Q067] interacts with 13 human partners:{Q99816;Q9H1H9;Q8N612;Q9H9C1;Q9H8T0;Q9NZZ3;O60291;Q9Y3E7;Q9UPV9;O14964;Q96NA2;Q86VS8;Q96ED9}  
7860 Pathogen[ P0C214] interacts with 12 human partners:{Q9UPV9;Q96ED9;Q96NA2;O14964;Q8N612;Q86VS8;Q9H8T0;Q9Y3E7;Q99816;O60291;Q9NZ

Z3;Q9H9C1}

7861 Pathogen[ P03346] interacts with 17 human partners: {Q86VS8;Q8N612;Q99626;Q96NA2;Q99816;Q9H1H9;Q6P3W7;Q9NZZ3;Q9H8T0;Q9Y3E7;Q9UPV9;Q9UGU5;O60291;Q96ED9;Q9H9C1;O14964;Q9UJC3}

7862 Pathogen[ Q85601] interacts with 13 human partners: {Q99816;Q86VS8;Q9H1H9;Q9UPV9;Q8N612;Q9H9C1;O60291;Q9H8T0;Q9NZZ3;O14964;Q96NA2;Q96ED9;Q9Y3E7}

7863 Pathogen[ P14079] interacts with 11 human partners: {Q96NA2;Q9UJC3;Q9H9C1;Q86VS8;Q96ED9;Q9H8T0;Q9H1H9;Q8N612;Q9Y3E7;Q9NZZ3;Q99816}

7864 Pathogen[ P03383] interacts with 12 human partners: {Q9Y3E7;Q9NZZ3;Q9H9C1;Q99816;Q8N612;Q9H1H9;Q9H8T0;Q9UPV9;Q86VS8;Q96ED9;O14964;Q96NA2}

7865 Pathogen[ P03410] interacts with 13 human partners: {Q9UJC3;Q9H1H9;Q9H8T0;Q86VS8;Q99816;Q9Y3E7;Q9UPV9;Q96ED9;Q9NZZ3;Q8N612;Q9H9C1;O60291;Q96NA2}

7866 Pathogen[ P14075] interacts with 12 human partners: {Q9H1H9;Q8N612;Q96NA2;Q9H9C1;Q9UPV9;Q9Y3E7;Q9H8T0;O14964;Q9NZZ3;Q86VS8;Q99816;Q96ED9}

7867 Pathogen[ P0C206] interacts with 15 human partners: {O14964;O60291;Q9Y3E7;Q9H8T0;Q99816;Q9H1H9;Q9UPV9;Q6P3W7;Q86VS8;Q96ED9;Q8N612;Q96NA2;Q9NZZ3;Q9UJC3;Q9H9C1}

7868 Pathogen[ P03363] interacts with 15 human partners: {Q86VS8;Q9UPV9;Q96ED9;Q9H9C1;O60291;Q99626;Q9NZZ3;Q9Y3E7;Q9H8T0;O14964;Q96NA2;Q8N612;Q99816;Q9H1H9;Q9UJC3}

7869 [Cluster 716]GO:0070374+P biological\_process [name] positive regulation of ERK1 and ERK2 cascade [def] "Any process that activates or increases the frequency, rate or extent of signal transduction mediated by the ERK1 and ERK2 cascade." [GOC

7870 Pathogen[ Q2Q067] interacts with 2 human partners: {P08697;Q969H0}

7871 Pathogen[ P0C214] interacts with 2 human partners: {P08697;Q969H0}

7872 Pathogen[ P03346] interacts with 2 human partners: {Q6UWF3;Q969H0}

7873 Pathogen[ Q85601] interacts with 2 human partners: {Q969H0;P08697}

7874 Pathogen[ P14079] interacts with 5 human partners: {Q969H0;O43597;Q6UWF3;P78524;Q9Y239}

7875 Pathogen[ P03383] interacts with 3 human partners: {P08697;Q6UWF3;Q969H0}

7876 Pathogen[ P03410] interacts with 6 human partners: {Q9Y239;O43597;Q969H0;P08697;Q6UWF3;P78524}

7877 Pathogen[ P14075] interacts with 3 human partners: {P08697;Q6UWF3;Q969H0}

7878 Pathogen[ P0C206] interacts with 4 human partners: {Q969H0;Q6UWF3;O43597;P08697}

7879 Pathogen[ P03363] interacts with 2 human partners: {Q6UWF3;Q969H0}

7880 [Cluster 717]GO:0043473+P biological\_process [name] pigmentation [def] "The deposition or aggregation of coloring matter in an organism, tissue or cell." [GOC

7881 Pathogen[ Q2Q067] interacts with 9 human partners: {Q9UL45;Q969F9;Q6QNY0;Q99966;Q92562;Q9HB07;O75030;Q86YV9;Q9UPZ3}

7882 Pathogen[ P0C214] interacts with 10 human partners: {Q969F9;Q99698;Q86YV9;O75030;Q92562;Q6QNY0;Q99966;Q9HB07;Q9UL45;Q9UPZ3}

7883 Pathogen[ P03346] interacts with 11 human partners: {Q86YV9;Q99698;Q99966;Q05925;Q92562;O75030;Q6QNY0;Q969F9;Q9UL45;Q9HB07;Q9UPZ3}

7884 Pathogen[ Q85601] interacts with 9 human partners: {Q9UPZ3;Q6QNY0;Q99966;O75030;Q92562;Q86YV9;Q969F9;Q9HB07;Q99698}

7885 Pathogen[ P14079] interacts with 11 human partners: {Q86YV9;Q92562;Q6QNY0;Q9HB07;Q92902;Q99966;Q9UPZ3;Q9UL45;Q969F9;Q99698;O75030}

7886 Pathogen[ P03383] interacts with 6 human partners: {Q6QNY0;Q969F9;O75030;Q9HB07;Q86YV9;Q9UPZ3}

7887 Pathogen[ P03410] interacts with 11 human partners: {Q92562;Q9HB07;Q92902;Q6QNY0;O75030;Q9UL45;Q9UPZ3;Q86YV9;Q99698;Q969F9;Q99966}

7888 Pathogen[ P14075] interacts with 6 human partners: {O75030;Q9HB07;Q86YV9;Q6QNY0;Q969F9;Q9UPZ3}

7889 Pathogen[ P0C206] interacts with 10 human partners: {Q9UL45;Q9UPZ3;O75030;Q92562;Q969F9;Q99698;Q9HB07;Q99966;Q6QNY0;Q86YV9}

7890 Pathogen[ P03363] interacts with 8 human partners: {Q9UPZ3;O75030;Q92902;Q99698;Q05925;Q9HB07;Q969F9;Q6QNY0}

7891 [Cluster 718]GO:0032967+P biological\_process [name] positive regulation of collagen biosynthetic process [def] "Any process that activates or increases the frequency, rate or extent of the chemical reactions and pathways resulting in the formation of collagen, any of a group of fibrous proteins of very high tensile strength that form the main component of connective tissue in animals." [GOC

7892 Pathogen[ Q2Q067] interacts with 3 human partners: {Q9H4X1;Q92769;P08697}

7893 Pathogen[ P0C214] interacts with 3 human partners: {P08697;Q9H4X1;Q92769}

7894 Pathogen[ P03346] interacts with 3 human partners: {Q9H4X1;Q8IYA7;Q92769}

7895 Pathogen[ Q85601] interacts with 3 human partners: {Q9H4X1;P08697;Q92769}

7896 Pathogen[ P14079] interacts with 1 human partners: {Q92769}

7897 Pathogen[ P03383] interacts with 3 human partners: {Q9H4X1;P08697;Q92769}

7898 Pathogen[ P03410] interacts with 3 human partners:{Q9H4X1;Q92769;P08697}  
7899 Pathogen[ P14075] interacts with 3 human partners:{Q9H4X1;Q92769;P08697}  
7900 Pathogen[ P0C206] interacts with 3 human partners:{Q92769;Q9H4X1;P08697}  
7901 Pathogen[ P03363] interacts with 2 human partners:{Q9H4X1;Q8IYA7}  
7902 [Cluster 719]GO:0048732+P biological\_process [name] gland development [def] "The process whose specific outcome is the progression of a gland over time, from its formation to the mature structure. A gland is an organ specialised for secretion." [GOC  
7903 Pathogen[ Q2Q067] interacts with 2 human partners:{P35869;O75360}  
7904 Pathogen[ P0C214] interacts with 2 human partners:{P35869;O75360}  
7905 Pathogen[ P03346] interacts with 3 human partners:{O43680;O75360;P35869}  
7906 Pathogen[ Q85601] interacts with 2 human partners:{O75360;P35869}  
7907 Pathogen[ P14079] interacts with 2 human partners:{P35869;O75360}  
7908 Pathogen[ P03383] interacts with 2 human partners:{O75360;P35869}  
7909 Pathogen[ P03410] interacts with 1 human partners:{O75360}  
7910 Pathogen[ P14075] interacts with 2 human partners:{P35869;O75360}  
7911 Pathogen[ P0C206] interacts with 3 human partners:{P35869;O75360;Q13422}  
7912 Pathogen[ P03363] interacts with 2 human partners:{O75360;P35869}  
7913 [Cluster 720]GO:0070269+P biological\_process [name] pyroptosis [def] "A type of programmed cell death that results from the apical activation of caspase-1." [PMID  
7914 Pathogen[ Q2Q067] interacts with 1 human partners:{O14862}  
7915 Pathogen[ P0C214] interacts with 2 human partners:{Q9NPP4;O14862}  
7916 Pathogen[ P03346] interacts with 2 human partners:{Q9NPP4;O14862}  
7917 Pathogen[ Q85601] interacts with 1 human partners:{O14862}  
7918 Pathogen[ P14079] interacts with 2 human partners:{O14862;Q9NPP4}  
7919 Pathogen[ P03383] interacts with 1 human partners:{O14862}  
7920 Pathogen[ P03410] interacts with 2 human partners:{O14862;Q9NPP4}  
7921 Pathogen[ P14075] interacts with 1 human partners:{O14862}  
7922 Pathogen[ P0C206] interacts with 1 human partners:{O14862}  
7923 Pathogen[ P03363] interacts with 2 human partners:{O14862;Q9NPP4}  
7924 [Cluster 721]GO:0043973+P biological\_process [name] histone H3-K4 acetylation [def] "The modification of histone H3 by the addition of an acetyl group to a lysine residue at position 4 of the histone." [GOC  
7925 Pathogen[ Q2Q067] interacts with 1 human partners:{Q86U70}  
7926 Pathogen[ P0C214] interacts with 1 human partners:{Q86U70}  
7927 Pathogen[ P03346] interacts with 1 human partners:{Q86U70}  
7928 Pathogen[ Q85601] interacts with 1 human partners:{Q86U70}  
7929 Pathogen[ P14079] interacts with 1 human partners:{Q86U70}  
7930 Pathogen[ P03383] interacts with 1 human partners:{Q86U70}  
7931 Pathogen[ P03410] interacts with 1 human partners:{Q86U70}  
7932 Pathogen[ P14075] interacts with 1 human partners:{Q86U70}  
7933 Pathogen[ P0C206] interacts with 1 human partners:{Q86U70}  
7934 Pathogen[ P03363] interacts with 1 human partners:{Q86U70}  
7935 [Cluster 722]GO:0055088+P biological\_process [name] lipid homeostasis [def] "Any process involved in the maintenance of an internal steady state of lipid within an organism or cell." [GOC  
7936 Pathogen[ Q2Q067] interacts with 3 human partners:{Q969H0;P22415;Q15853}  
7937 Pathogen[ P0C214] interacts with 3 human partners:{Q969H0;Q15853;P22415}  
7938 Pathogen[ P03346] interacts with 3 human partners:{Q15853;Q969H0;P22415}  
7939 Pathogen[ Q85601] interacts with 3 human partners:{Q15853;Q969H0;P22415}  
7940 Pathogen[ P14079] interacts with 3 human partners:{Q969H0;Q15853;P22415}  
7941 Pathogen[ P03383] interacts with 3 human partners:{Q969H0;Q15853;P22415}  
7942 Pathogen[ P03410] interacts with 3 human partners:{Q969H0;P22415;Q15853}  
7943 Pathogen[ P14075] interacts with 3 human partners:{Q15853;P22415;Q969H0}  
7944 Pathogen[ P0C206] interacts with 3 human partners:{Q969H0;Q15853;P22415}  
7945 Pathogen[ P03363] interacts with 3 human partners:{Q15853;Q969H0;P22415}  
7946 [Cluster 723]GO:0050679+P biological\_process [name] positive regulation of epithelial cell proliferation [def] "Any process that activates or increases the rate or extent of epithelial cell proliferation." [GOC  
7947 Pathogen[ Q2Q067] interacts with 4 human partners:{P22392;Q99502;P01106;P30279}  
7948 Pathogen[ P0C214] interacts with 5 human partners:{Q92934;P30279;P22392;P01106;Q99502}  
7949 Pathogen[ P03346] interacts with 6 human partners:{P30279;Q99502;P01106;Q01954;P22392;P56178}  
7950 Pathogen[ Q85601] interacts with 5 human partners:{P01106;Q01954;Q99502;P30279;P22392}  
7951 Pathogen[ P14079] interacts with 6 human partners:{Q99502;P54826;P22392;Q92934;Q9GZZ8;P01106}  
7952 Pathogen[ P03383] interacts with 3 human partners:{P01106;P22392;P30279}  
7953 Pathogen[ P03410] interacts with 6 human partners:{P30279;P01106;Q9GZZ8;Q99502;Q92934;P54826}  
7954 Pathogen[ P14075] interacts with 6 human partners:{P30279;P01106;Q9GZZ8;Q99502;P54826;P22392}  
7955 Pathogen[ P0C206] interacts with 7 human partners:{P22392;P30279;Q92934;Q99502;P01106;P54826;Q01954}  
7956 Pathogen[ P03363] interacts with 4 human partners:{P56179;P30279;P01106;Q01954}  
7957 [Cluster 724]GO:0006282+P biological\_process [name] regulation of DNA repair [def]



"Any process that modulates the frequency, rate or extent of DNA repair." [GOC  
7958 Pathogen[ Q2Q067] interacts with 5 human  
partners:{Q9Y253;P50750;P61088;Q15819;Q13404}  
7959 Pathogen[ P0C214] interacts with 5 human  
partners:{P50750;Q13404;Q15819;Q9Y253;P61088}  
7960 Pathogen[ P03346] interacts with 6 human  
partners:{Q9Y253;Q13404;P61088;P50750;O94782;Q15819}  
7961 Pathogen[ Q85601] interacts with 5 human  
partners:{P50750;Q13404;P61088;Q9Y253;Q15819}  
7962 Pathogen[ P14079] interacts with 4 human partners:{Q15819;Q13404;Q9Y253;P50750}  
7963 Pathogen[ P03383] interacts with 5 human  
partners:{Q9Y253;P61088;Q15819;Q13404;P50750}  
7964 Pathogen[ P03410] interacts with 5 human  
partners:{P61088;Q15819;P50750;Q9Y253;Q13404}  
7965 Pathogen[ P14075] interacts with 5 human  
partners:{Q15819;P61088;P50750;Q9Y253;Q13404}  
7966 Pathogen[ P0C206] interacts with 5 human  
partners:{Q9Y253;P50750;P61088;Q15819;Q13404}  
7967 Pathogen[ P03363] interacts with 5 human  
partners:{Q9Y253;P61088;P50750;Q13404;Q15819}  
7968 [Cluster 725]GO:0030889+P biological\_process [name] negative regulation of B cell  
proliferation [def] "Any process that stops, prevents or reduces the rate or extent of  
B cell proliferation." [GOC  
7969 Pathogen[ Q2Q067] interacts with 3 human partners:{P41218;Q8N726;Q96IZ0}  
7970 Pathogen[ P0C214] interacts with 4 human partners:{Q96IZ0;P41218;Q8N726;P42574}  
7971 Pathogen[ P03346] interacts with 5 human  
partners:{P42574;O75626;P41218;Q96IZ0;Q8N726}  
7972 Pathogen[ Q85601] interacts with 4 human partners:{Q96IZ0;Q8N726;P41218;O75626}  
7973 Pathogen[ P14079] interacts with 5 human  
partners:{P41218;O75626;Q8N726;Q96IZ0;O14836}  
7974 Pathogen[ P03383] interacts with 3 human partners:{Q96IZ0;P41218;Q8N726}  
7975 Pathogen[ P03410] interacts with 5 human  
partners:{Q8N726;P41218;O14836;Q96IZ0;O75626}  
7976 Pathogen[ P14075] interacts with 3 human partners:{P41218;Q96IZ0;Q8N726}  
7977 Pathogen[ P0C206] interacts with 5 human  
partners:{Q96IZ0;Q8N726;O75626;P41218;P42574}  
7978 Pathogen[ P03363] interacts with 4 human partners:{Q96IZ0;P41218;Q8N726;O75626}  
7979 [Cluster 726]GO:0002051+P biological\_process [name] osteoblast fate commitment  
[def] "The commitment of mesenchymal cells to the specific cell fate of an osteoblast.  
An osteoblast is a bone-forming cell which secretes an extracellular matrix.  
Hydroxyapatite crystals are then deposited into the matrix to form bone." [GOC  
7980 Pathogen[ Q2Q067] interacts with 3 human partners:{O00255;Q99717;Q15797}  
7981 Pathogen[ P0C214] interacts with 3 human partners:{Q99717;Q15797;O00255}  
7982 Pathogen[ P03346] interacts with 3 human partners:{Q15797;Q99717;O00255}  
7983 Pathogen[ Q85601] interacts with 3 human partners:{Q15797;Q99717;O00255}  
7984 Pathogen[ P14079] interacts with 2 human partners:{Q15797;O00255}  
7985 Pathogen[ P03383] interacts with 3 human partners:{Q15797;Q99717;O00255}  
7986 Pathogen[ P03410] interacts with 3 human partners:{Q99717;Q15797;O00255}  
7987 Pathogen[ P14075] interacts with 2 human partners:{Q99717;O00255}  
7988 Pathogen[ P0C206] interacts with 3 human partners:{O00255;Q99717;Q15797}  
7989 Pathogen[ P03363] interacts with 2 human partners:{Q15797;Q99717}  
7990 [Cluster 727]GO:0006611+P biological\_process [name] protein export from nucleus  
[def] "The directed movement of a protein from the nucleus into the cytoplasm." [GOC  
7991 Pathogen[ Q2Q067] interacts with 15 human  
partners:{Q96QU8;P55265;Q8TD31;P38646;P62826;P61970;P63241;P27797;O14980;P11161;Q9UI  
A9;Q9HAV4;O15504;Q9UKK6;P35658}  
7992 Pathogen[ P0C214] interacts with 17 human  
partners:{Q9UIA9;Q8TD31;P55265;O43865;Q9HAV4;P63241;Q96QU8;Q9HCE7;O14980;Q9UKK6;P356  
58;P38646;P62826;P27797;O15504;P11161;P61970}  
7993 Pathogen[ P03346] interacts with 16 human  
partners:{Q9HAV4;P55265;Q96QU8;P63241;P35658;Q9UIA9;Q8TD31;P62826;P38646;O14980;P277  
97;P11161;P61970;O43865;Q9UKK6;O15504}  
7994 Pathogen[ Q85601] interacts with 16 human  
partners:{Q9HAV4;Q9UIA9;P62826;O43865;P61970;P27797;P63241;O15504;Q9UKK6;Q96QU8;O149  
80;P55265;P35658;P38646;P11161;Q8TD31}  
7995 Pathogen[ P14079] interacts with 14 human  
partners:{P61970;P35658;O15504;O43865;P11161;P55265;Q9UKK6;Q8TD31;P63241;P38646;Q9UI  
A9;Q9HAV4;P62826;Q96QU8}  
7996 Pathogen[ P03383] interacts with 15 human  
partners:{O15504;Q9UIA9;P38646;P63241;Q8TD31;P62826;O14980;Q9HAV4;P35658;P11161;P552  
65;Q96QU8;P61970;Q9UKK6;P27797}  
7997 Pathogen[ P03410] interacts with 16 human  
partners:{Q8TD31;P38646;Q96QU8;O15504;P55265;P62826;P35658;P63241;Q9HAV4;Q9UIA9;P111  
61;O43865;Q9UKK6;O14980;P61970;P27797}  
7998 Pathogen[ P14075] interacts with 15 human  
partners:{P55265;Q8TD31;P61970;P11161;P63241;P35658;Q9HAV4;P38646;O14980;P27797;P628

26;Q9UIA9;Q96QU8;O15504;Q9UKK6}

7999 Pathogen[ POC206] interacts with 15 human partners: {P55265;P27797;Q9UKK6;P11161;Q8TD31;Q96QU8;P62826;O43865;P38646;Q9HAV4;P63241;O15504;Q9UIA9;P61970;P35658}

8000 Pathogen[ P03363] interacts with 16 human partners: {Q9HAV4;P61970;O14980;Q96QU8;P27797;P38646;P35658;P55265;O43865;Q9UKK6;P63241;O15504;P62826;Q8TD31;Q9UIA9;P11161}

8001 [Cluster 728]GO:0060071+P biological\_process [name] Wnt receptor signaling pathway, planar cell polarity pathway [def] "The series of molecular signals initiated by binding of a Wnt protein to a receptor on the surface of the target cell where activated receptors signal via downstream effectors including C-Jun N-terminal kinase (JNK) to modulate cytoskeletal elements and control cell polarity." [GOC

8002 Pathogen[ Q2Q067] interacts with 2 human partners: {O14641;P63000}

8003 Pathogen[ POC214] interacts with 2 human partners: {P63000;O14641}

8004 Pathogen[ P03346] interacts with 2 human partners: {O14641;P63000}

8005 Pathogen[ Q85601] interacts with 2 human partners: {P63000;O14641}

8006 Pathogen[ P14079] interacts with 1 human partners: {O14641}

8007 Pathogen[ P03383] interacts with 2 human partners: {P63000;O14641}

8008 Pathogen[ P03410] interacts with 2 human partners: {P63000;O14641}

8009 Pathogen[ P14075] interacts with 2 human partners: {O14641;P63000}

8010 Pathogen[ POC206] interacts with 1 human partners: {P63000}

8011 Pathogen[ P03363] interacts with 2 human partners: {P63000;O14641}

8012 [Cluster 729]GO:0035690+P biological\_process [name] cellular response to drug [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a drug stimulus. A drug is a substance used in the diagnosis, treatment or prevention of a disease." [GOC

8013 Pathogen[ Q2Q067] interacts with 9 human partners: {Q8WY54;Q08209;P01106;O14862;P09467;Q13127;Q15327;P49593;P02795}

8014 Pathogen[ POC214] interacts with 10 human partners: {P09417;Q15327;P09467;Q08209;P02795;Q13127;Q8WY54;P49593;O14862;P01106}

8015 Pathogen[ P03346] interacts with 9 human partners: {Q8WY54;Q15327;P09467;P49593;P01106;P02795;Q08209;O14862;Q13127}

8016 Pathogen[ Q85601] interacts with 9 human partners: {P01106;Q13127;P49593;P02795;Q08209;O14862;Q15327;P09467;Q8WY54}

8017 Pathogen[ P14079] interacts with 11 human partners: {Q06413;P49593;P02795;P16298;Q8WY54;Q15327;P01106;O14862;P09467;Q13127;Q08209}

8018 Pathogen[ P03383] interacts with 7 human partners: {O14862;P01106;P09467;P02795;Q15327;Q8WY54;Q13127}

8019 Pathogen[ P03410] interacts with 9 human partners: {Q08209;P01106;O14862;Q8WY54;Q15327;P09467;Q13127;P02795;P49593}

8020 Pathogen[ P14075] interacts with 7 human partners: {Q15327;P01106;O14862;Q8WY54;P02795;Q13127;P09467}

8021 Pathogen[ POC206] interacts with 9 human partners: {Q13127;Q8WY54;O14862;Q15327;P09467;P49593;Q08209;P01106;P02795}

8022 Pathogen[ P03363] interacts with 6 human partners: {P02795;Q15327;P01106;Q13127;O14862;Q8WY54}

8023 [Cluster 730]GO:0016568+P biological\_process [name] chromatin modification [def] "The alteration of DNA, protein, or sometimes RNA, in chromatin, which may result in changing the chromatin structure." [GOC

8024 Pathogen[ Q2Q067] interacts with 169 human partners: {O43463;Q9UPP1;O00213;Q9Y4A5;Q13185;O14744;P56524;Q9BY41;Q8IZD2;Q99502;Q9NV M4;Q92922;P55895;Q9NXR8;Q5VTD9;P06400;Q9NPF5;Q9C005;Q9UKV0;Q08999;Q8WYH8;Q96LA8;Q52L R7;O43159;Q7Z589;Q15910;O75151;Q9NR48;O43189;Q96019;Q9HCS52;Q9NPG3;Q8N9N5;Q9HAF1;Q150 59;O00167;Q96T88;Q9Y6K1;O14929;O00257;Q13547;Q9NP66;O15379;Q9NQX1;Q92800;Q96EZ8;Q9NW V8;O95503;Q95931;Q9UNL4;Q15542;O14686;Q6ZRS2;Q9Y6J0;P54198;P51610;Q8TBE0;Q8N5Y2;Q150 22;Q8NHM5;Q14CW9;Q09028;Q9UKL0;Q9UQL6;Q9NRG4;P0C860;Q99504;Q6W2J9;Q15047;Q5H9F3;Q969 S8;Q96BD5;P26358;Q96DB2;Q969G3;Q96JM7;Q7Z3B3;Q75177;Q92925;Q96ES7;P25440;Q92769;O144 97;O00255;Q86Y97;Q05BQ5;P51532;Q8NI51;Q9H4L7;Q12873;P35226;Q9H160;O75530;Q96GM5;P829 70;Q92993;Q6UWZ7;Q9UPW6;Q8NFD5;Q8WUI4;O75164;Q9UBU8;Q3L8U1;Q5VTR2;Q99543;Q9H6W3;Q96T 23;Q15014;Q9H7L9;Q58F21;Q969R5;O76064;Q94805;P28749;Q68DK7;Q8TDB6;Q8N371;Q14839;Q86U 86;Q9BZK7;Q9NV56;O75150;Q9UM07;O14646;O95619;Q12824;P49459;Q9HCK8;Q86YI8;Q9Y294;Q9UI F9;Q68CP9;Q8TAQ2;Q01826;Q9H2F5;Q9NPA8;Q15652;Q8TEK3;P28370;Q16576;Q9UBL3;Q6STE5;Q8NA 19;Q8NDN9;O75376;Q9Y468;Q15651;Q8IXJ9;Q9H5I1;Q9H7E2;P49711;Q14781;Q7LBC6;Q9NXR7;Q86X 55;Q06587;Q96RL1;Q9NQ92;Q9BTA9;Q9P0W2;Q12830;Q86TU7;Q9H0E9;Q9H2G4;Q15906;O96028;Q8WT S6;Q9BXF3;Q9NRC8}

8025 Pathogen[ POC214] interacts with 173 human partners: {Q92993;Q8NI51;P54198;O00213;Q14527;Q8N371;Q58F21;P35226;Q8NA19;Q15059;Q9H5 I1;Q15022;P51610;Q15047;Q15651;Q13547;Q12824;Q08999;O14497;Q52LR7;Q969S8;P46379;O431 59;Q96DB2;Q12873;Q15014;O00167;Q14CW9;O75530;Q92560;Q9NVM4;O14929;Q8N9N5;Q9NWX8;Q6ZR S2;P56524;Q6W2J9;Q9Y6K1;Q96BD5;Q15906;Q5H9F3;Q95931;Q9UNL4;Q3L8U1;Q7Z589;Q6STE5;P494 59;O95503;Q15910;O75164;O75151;Q9H4L7;Q9Y468;O43463;Q8TBE0;Q8TAQ2;Q9H2F5;Q96T88;Q155 42;Q5VTD9;O95619;Q09028;Q92922;Q9UM07;Q969G3;P28370;Q9UIF9;P55895;Q9P0W2;Q96TU7;Q9H0E9;Q9H2G4;Q15906;O96028;Q8WT S6;Q9BXF3;Q9NRC8}

- U7;Q99504;O15379;Q96RL1;O95251;P82970;Q8NDN9;Q9NV56;Q86YI8;Q9H2G4;Q86Y97;Q9Y4A5;Q9H0E9;Q9BXF3;Q9Y294;Q9H8M2;P49711;Q14781;Q01826;P28749;Q96T23;Q9NQX1;Q86U86;Q9H7E2;Q9BZK7;P0C860;O75150;Q8IXM2;Q9NR48;Q99543;Q9NXR7;Q68CP9;Q9UPW6;Q9BTA9;Q86X55;O14646;Q9NRC8;Q8WYH8;Q8WUI4;Q8WTS6;Q9NQ92;Q9NQR1;Q8NFD5;Q92800;Q5VTR2;Q94805;Q8TDB6;Q8IYW5;Q969R5;Q96EZ8;Q9NRG4;O76064;O75177;Q9NP66;Q96ES7;Q96GM5;O96019;Q7LBC6;Q9UQL6;Q9UPP1;P06400;Q9HC52;O00255;Q12830;Q14839;Q9NQV7;Q9Y6J0;Q9NPF5;P51532;Q8IZD2;Q96LA8;Q8TEK3;Q68DK7;Q96028;Q9H7L9;Q9BY41;Q9NPG3;Q99502;Q8NHM5}
- 8026 Pathogen[ P03346] interacts with 194 human partners: {Q9NPG3;Q14781;Q969S8;P0C860;Q8NI51;O00213;Q12830;Q15542;Q9NQ92;Q9Y6K1;Q9NQX1;Q96ES7;Q92560;O76064;Q9NQV7;O95677;Q9BXF3;Q8IXM2;Q8WYB5;Q96GM5;Q9UPW6;Q9C005;O75150;Q08999;Q9UKL0;Q99543;Q52LR7;Q9UNL4;Q92800;Q86Y97;Q9P0W2;Q8WYH8;Q5VTR2;O00167;Q96DB2;O75530;Q9NV56;Q9H7E2;O15379;Q9NQR1;Q8NFD5;P06400;Q15291;P51532;P35226;Q7LBC6;Q96EZ8;O43159;Q14527;Q8NA19;P51610;P55895;Q92925;Q8TD26;Q8TEK3;Q9HC52;Q9H2G4;O14744;P56524;Q15906;Q5H9F3;O95931;Q7Z589;Q6WOC5;Q9BYW2;Q96RL1;Q12824;O00257;Q86U86;P26358;Q9UBL3;O14646;P49459;P25440;Q99502;Q15652;O75151;O43463;Q15059;Q86SE8;Q9H0E9;Q9NRG4;Q9NP66;Q58F21;Q92794;O96019;Q9NXR7;Q7Z3B3;Q969R5;O43189;Q96JM7;O00255;Q9Y4A5;Q8WTS6;Q8N5Y2;Q15022;Q92769;O95251;Q9UBU8;O75164;Q9Y6J0;O60264;Q13547;Q09028;Q6STE5;P46379;Q9HC8;O14497;Q05BQ5;Q92784;Q9BY41;Q9NVM4;P49711;O94805;Q9H2F5;Q9UIF9;P82970;Q96T23;Q9H8M2;Q68DK7;Q16576;Q8N9N5;Q8WUI4;O14686;Q9UPP1;P35659;O75376;Q9Y468;Q8IYW5;Q5VTD9;Q6ZRS2;Q15910;Q15014;Q9NWW8;P28749;Q8N371;O95619;Q9UM07;Q96BD5;Q969G3;Q9UKV0;Q9H7Z6;Q92922;Q9BZK7;B2RXH2;Q9UGL1;Q15047;P28370;Q9H7L9;Q86X55;Q12873;Q86YI8;Q8NDN9;Q8IXJ9;Q9P2D1;Q8TBE0;Q8TDB6;Q9HAF1;Q8NHM5;Q92993;Q15651;Q9NR48;Q14CW9;Q9H6W3;Q9H5I1;Q3L8U1;Q9NQZ2;Q99504;Q6UWZ7;Q68CP9;Q8TAQ2;Q9NPA8;Q9Y294;Q06587;Q9H160;Q13185;Q9NRC8;Q8IZD2;Q9UQL6;O95503;Q01826;P54198;Q6W2J9;Q96LA8;Q9NXR8;O14929;Q96T88;Q14839;Q9H4L7;O75177;O96028;Q9BTA9;Q9NPF5;Q86TU7}
- 8027 Pathogen[ Q85601] interacts with 184 human partners: {O95619;Q969S8;Q9H5I1;Q8NI51;Q99543;O00213;Q9NRC8;Q15014;Q15542;Q9Y5T5;P54198;Q8N5Y2;Q9UKV0;Q9H2F5;Q9H7E2;Q96DB2;Q9NQV7;Q9H8M2;Q8TDB6;Q96RL1;Q9BXF3;Q9P0W2;Q8N371;Q9UPW6;Q86X55;Q08999;Q9BY41;Q52LR7;Q96BD5;Q9NPG3;Q9UQL6;Q9UIF9;Q3L8U1;Q6STE5;O75151;Q8TBE0;Q14CW9;Q9P2D1;O95251;Q9NQR1;P06400;O95677;Q96T23;Q9Y294;Q9HAF1;Q9UM07;Q9Y6J0;Q86SE8;Q92560;Q92925;Q9NR48;Q9Y468;Q9NQ92;Q9Y4A5;Q86TU7;Q9NVM4;Q9H0E9;P46379;Q9BTA9;O14686;O95931;Q9UBU8;Q99504;Q9H7Z6;Q9UNL4;Q8IXJ9;Q96ES7;O43159;O14497;O96019;P26358;Q8NA19;O14646;O95503;O14744;O43463;Q15651;P49711;Q15059;P51610;Q12830;Q969R5;Q9H6W3;Q15022;Q7Z589;Q96GM5;Q9UBL3;Q9NP66;Q9NQX1;P51532;Q969G3;O76064;O14929;Q96JM7;Q68DK7;Q8WTS6;Q92769;Q9C005;Q16576;Q8IXM2;Q12873;Q99502;Q05BQ5;Q8NFD5;Q9H4L7;Q8NHM5;Q6UWZ7;Q9NWW8;O75530;Q9Y6K1;Q6ZRS2;Q96T88;P82970;O00255;Q01826;O75376;Q8N9N5;Q86YI8;Q13185;Q9UPP1;P49459;Q8IYW5;Q09028;Q8TEK3;P28749;Q5H9F3;O75150;Q86Y97;Q5VTR2;Q9HCK8;Q15906;Q8WYH8;Q9BZK7;P56524;O15379;Q5VTD9;O43189;Q15910;Q9NPA8;P25440;O75164;P28370;P35226;Q8NDN9;Q9NRG4;Q13547;Q8TD26;Q9H2G4;Q86U86;Q92993;Q15652;Q15047;Q8WUI4;O60264;Q92800;Q9NV56;O00257;Q7LBC6;Q14527;O94805;O00167;Q9NXR8;Q9H160;Q96EZ8;Q92922;Q9H7L9;Q68CP9;Q12824;Q8TAQ2;Q9UKL0;Q06587;Q58F21;Q8IZD2;Q9NXR7;P55895;Q9HC52;Q96LA8;Q14839;P0C860;O75177;Q6W2J9;O96028;Q9NPF5;Q14781}
- 8028 Pathogen[ P14079] interacts with 167 human partners: {Q9UQL6;O15379;Q9UPW6;Q9NQX1;Q68DK7;Q15014;Q9Y4A5;Q96T23;Q05BQ5;O75151;Q9BZK7;Q6STE5;Q99502;Q15047;Q9C005;Q9H8M2;Q9UBU8;P28749;Q96LA8;Q52LR7;Q96DB2;Q9NRG4;Q9Y6K1;Q8IXJ9;Q8NDN9;O95503;Q9NP66;Q9UBL3;Q58F21;Q9NVM4;Q9HC52;P28370;Q9Y468;Q9BTA9;Q9H4L7;Q969S8;Q14CW9;Q8WUI4;Q92922;O95251;P51532;Q6UWZ7;Q9UNL4;Q86U86;O14646;Q01826;Q86TU7;O95931;P54198;Q9UKV0;Q92800;O00213;Q6ZRS2;Q15059;O14497;Q9HAF1;Q8NHM5;Q8TAQ2;Q15652;Q8NA19;P51610;Q16576;Q12873;Q9H5I1;Q9H0E9;Q6W2J9;P82970;Q9H6W3;Q9P2D1;Q8TD26;Q5H9F3;O43189;Q15651;Q99543;Q9P0W2;Q96019;O14744;Q8N9N5;Q9NXR7;Q15906;Q13185;O00257;Q14781;O14929;O75530;Q5VTD9;Q96BD5;Q8N5Y2;Q9NV56;Q969R5;Q9NPF5;Q92769;Q5VTR2;Q9UPP1;Q8TEK3;Q9H2G4;Q92560;Q9NQZ2;Q9NPG3;Q9NWW8;Q96JM7;Q9UIF9;Q9BXF3;Q12830;Q9NQR1;P49459;Q96GM5;Q9BY41;Q8NFD5;P26358;Q7Z3B3;Q9HCK8;Q9UKL0;Q96RL1;O60264;Q96ES7;Q9H2F5;Q86YI8;P35226;Q9H7E2;Q14839;P35659;P25440;Q8IXM2;O43159;O75376;P0C860;Q8N371;Q99504;Q9NQV7;Q6W0C5;Q15910;Q68CP9;Q12824;Q9P2N6;O00167;Q9Y294;Q9UM07;P56524;Q9H7L9;Q09028;Q9NRC8;O95619;O43151;O00255;Q96EZ8;Q86Y97;Q7Z589;Q15542;P49711;Q9H9L4;Q15022;Q9NPA8;Q9NQ92;O75177;Q8WYH8;Q92925;Q8WTS6;Q8NI51;Q9H160;Q92993;Q3L8U1;Q7LBC6;Q08999;Q9Y6J0;Q8TBE0;Q06587}
- 8029 Pathogen[ P03383] interacts with 151 human partners: {Q86U86;Q8IXJ9;Q09028;P0C860;Q99504;Q8NI51;O00213;Q15014;Q12830;Q15047;Q14839;O14497;Q9NQ92;Q9UPW6;O96019;Q96ES7;O00167;Q9NPA8;Q12824;Q08999;O94805;Q9BTA9;P25440;P49711;Q52LR7;O75376;Q9UQL6;Q96RL1;O95503;O95251;Q9H7E2;Q9NP66;Q9Y4A5;Q96BD5;Q9NRG4;O43463;Q9NV56;Q9H7L9;Q86X55;Q01826;O00257;Q6STE5;P28370;Q9HC52;Q9H2F5;Q06587;Q15542;O95931;Q9UBU8;Q86Y97;Q9UNL4;O14646;Q8WYH8;O75177;O43189;Q92993;O75151;Q15651;Q96T23;Q86TU7;Q9H6W3;Q9NQX1;Q15022;P06400;O14744;O75164;Q14CW9;Q9H0E9;O43159;Q6W2J9;Q7Z589;Q96GM5;Q8WTS6;P51610;Q12873;Q68DK7;Q13185;Q9H160;Q15652;Q8N9N5;Q969G3;Q9Y6K1;O14929;Q96JM7;Q9NPF5;Q9Y294;Q92769;Q68CP9;Q9C005;Q9UM07;Q05BQ5;O15379;P55895;Q9UIF9;P82970;O00255;Q9NPG3;Q86YI8;Q92925;Q9P0W2;Q8TAQ2;Q99543;Q9NWW8;Q58F21;Q13547;Q5VTR2;Q9BY41;P28749;Q9UKL0;Q5H9F3;Q3L8U1;Q9HCK8;Q9H2G4;Q9UKV0;Q15906;Q15059;Q9BZK7;P56524;Q15910;P49459;P51532;Q8TBE0;Q9HAF1;Q8N371;Q969R5;Q8NFD5;Q92922;Q8TEK3;Q8WUI4;O95619;Q9BZK7;Q7LBC6;Q96EZ8;O75150;P54198;Q9H5I1;Q9UPP1;Q9NQR1;P26358;Q8NDN9;Q9NXR7;Q6UWZ7;Q96LA8;Q16576;P35226;Q92800;Q969S8;Q9NRC8;Q9Y468;O75530;Q14781}
- 8030 Pathogen[ P03410] interacts with 174 human partners: {Q96RL1;Q9UKV0;Q9UPP1;Q86SE8;O95619;Q9H6W3;Q9P2N6;P51610;Q9Y6J0;Q8WYH8;Q12873;Q9NXR7;Q9H4L7;Q96LA8;Q96T23;Q9NV56;Q9BY41;P54198;Q6W2J9;O95503;Q15047;Q52LR7;Q15014;O14929;Q8NA19;Q15652;P82970;Q9NWW8;O95251;P0C860;Q99502;Q86U86;Q96GM5;O14497;Q9UM

- 07;Q96019;Q9BXF3;Q9NQZ2;Q86Y97;Q9NPF5;O14646;Q8N9N5;Q8TEK3;Q12830;Q9UNL4;Q95931;Q9P0W2;Q8WTS6;Q14CW9;Q9H9L4;Q9UBU8;Q9NVM4;Q86X55;P49459;Q5H9F3;O00213;P55895;Q5VTR2;Q08999;Q9Y468;Q15651;Q15906;P06400;O75376;Q96ES7;Q15059;Q9UPW6;Q9NPG3;O43159;Q8NFD5;O75177;Q7LBC6;Q9NP66;Q8WUI4;P35659;Q9C005;Q16576;Q9H8M2;Q9UQL6;Q9H2F5;Q05BQ5;Q92925;Q92800;P26358;O75151;Q9NPA8;Q6ZRS2;Q969S8;Q8NDN9;O75150;Q969G3;Q9NQV7;Q09028;Q8IXM2;Q92769;Q9Y4A5;Q94805;Q96JM7;Q9Y294;Q9P2D1;Q9NQR1;Q9NXR8;O15379;P56524;Q8IXJ9;Q9H5I1;Q92922;Q014826;Q9H7L9;Q8TBE0;Q9HCK8;Q9H7E2;Q13185;Q6UWZ7;Q15910;Q99504;P51532;Q9NQ92;P49711;O43151;Q8NI51;P28749;Q96EZ8;O43189;Q9BTA9;Q3L8U1;Q13547;O00167;Q8TAQ2;Q9UIF9;Q15542;Q9BZK7;Q06587;Q68CP9;O43463;O14744;Q9NRC8;O00257;Q8TD26;Q96BD5;Q9UKL0;Q6STE5;Q14781;O60264;Q8N371;Q99543;Q9Y6K1;O75164;Q5VTD9;Q12824;P35226;O00255;Q9H2G4;Q9H0E9;Q14839;Q9NQX1;Q92993;Q8N5Y2;Q58F21;Q6W0C5;Q969R5;Q7Z3B3;Q15022;Q86TU7;Q9HC52;P28370;O75530;Q68DK7;Q7Z589;Q9NRG4;Q96DB2;Q86YI8;P25440}
- 8031 Pathogen[ P14075] interacts with 152 human partners: {Q3L8U1;Q5VTR2;Q14781;Q9BY41;Q15059;Q8NI51;O00213;Q16576;O14646;Q9Y6K1;P35659;Q8N9N5;Q99504;Q9H2F5;Q969R5;Q969S8;Q96GM5;Q9UBU8;P25440;Q08999;Q8N371;Q8IXJ9;Q52LR7;Q15542;Q95503;Q9UM07;Q15906;Q15014;P51532;Q9NWX8;P49459;Q9UKL0;Q5H9F3;Q9UPP1;Q86TU7;Q9Y468;Q14839;P51610;Q15652;Q7Z3B3;P56524;Q96EZ8;Q15047;O95619;Q95931;Q7LBC6;Q92922;Q8NDN9;Q9NQR1;Q15910;Q92800;Q99543;O00167;Q9Y4A5;Q9UKV0;O14929;Q9NXR7;Q9H2G4;Q13547;P54198;P26358;Q92993;O14497;O75376;Q01826;Q6UWZ7;O00257;O00255;Q09028;Q9NPF5;O96019;Q06587;Q9H5I1;Q14CW9;Q9NQX1;Q9UPW6;O14744;Q9HAF1;Q58F21;Q96JM7;Q96LA8;Q12830;Q6W2J9;Q92769;Q86U86;P0C860;Q9C005;Q68CP9;Q86X55;Q13185;Q9HCK8;Q05BQ5;O43189;O75150;Q9BTA9;Q9NPA8;Q9HC52;Q92925;Q9H6W3;Q9UIF9;Q8TBE0;O95251;P82970;Q8TAQ2;Q86YI8;Q96BD5;P28370;P06400;Q9NP66;Q12824;Q94805;Q9NV56;P28749;O15379;Q8TEK3;Q86Y97;Q9UNL4;Q9H7E2;O43159;P49711;Q9BZK7;Q96T23;O43463;P35226;Q9Y294;Q15022;Q9NRC8;Q9UQL6;Q8NFD5;Q99502;Q8WUI4;Q8WYH8;Q9BXF3;Q7Z589;Q6STE5;Q96ES7;Q9H160;Q68DK7;P55895;Q12873;Q75151;Q96RL1;Q9NRG4;Q9NQ92;Q9P0W2;Q9H7L9;Q15651;Q8WTS6;O75530;O75177;Q9NPG3}
- 8032 Pathogen[ P0C206] interacts with 195 human partners: {Q9Y468;Q9NQX1;Q8N371;Q9H4L7;Q92769;Q9C005;Q96JM7;O75530;Q9HCK8;O43159;Q8N9N5;O00167;Q8NA19;Q9H2F5;O95251;Q9Y6K1;Q9NPF5;Q8TD26;Q68DK7;Q9UBU8;Q99504;Q9HC52;P51532;Q8IYW5;Q9Y5T5;O43151;Q8WYH8;Q6W2J9;O14744;Q9H7E2;P35226;Q9UKL0;Q96DB2;Q9NRG4;Q86X55;O00255;Q9H7B4;Q6STE5;Q05BQ5;Q9P2D1;Q9UKV0;O43463;Q9UPP1;P54198;O75177;Q96LA8;Q8NI51;Q52LR7;P26358;Q86TU7;Q92800;Q7LBC6;Q6ZRS2;Q96T23;Q92922;Q13547;Q9UM07;Q9H9L4;Q9NQX0;Q92993;Q12824;Q92925;O14686;Q15910;Q15014;Q86U86;Q8TAQ2;Q9NXR8;Q5VTR2;Q9H160;Q14781;P28749;Q8TDB6;Q96EZ8;Q08999;O75151;Q9H8M2;Q9NQV7;Q14839;O00213;Q9NPG3;O14646;O14497;Q96019;Q92784;Q15651;P82970;P0C860;Q96J0;Q9BXF3;Q9P0W2;Q86Y97;Q9Y4A5;Q9NVM4;Q8IXJ9;Q95619;O14929;Q9NR48;O15379;Q9NP66;Q14CW9;P49459;P51610;Q15906;Q5H9F3;Q8WUI4;Q99543;Q96T88;P49711;Q9NWX8;Q06587;O95931;Q9NQR1;Q9UPW6;Q7Z589;Q9H6W3;Q9UIF9;O96028;Q8WTS6;Q8NHM5;Q9NQ92;Q9HAF1;P55895;Q86SE8;Q96ES7;Q9BZK7;Q9H5I1;O75376;Q9NRC8;Q9H2G4;Q9BTA9;P25440;Q15022;Q8TBE0;P28370;Q14527;Q15652;Q9H7L9;Q15542;Q8IXM2;Q8TEK3;Q86YI8;Q13422;Q9Y294;Q9502;Q9UBL3;P35659;Q969R5;Q15059;Q16576;Q13185;Q96GM5;Q1826;Q6UWZ7;O75164;Q969G3;Q5VTD9;Q09028;Q8NFD5;Q8NDN9;Q6W0C5;Q15047;Q58F21;Q96RL1;Q9BY41;Q9NV56;P56524;O00257;Q9NQZ2;Q969S8;O76064;Q9P2N6;O43189;P46379;Q9NPA8;Q7Z3B3;Q12830;Q8N5Y2;O75150;Q92560;Q9H0E9;Q95677;Q94805;Q9UNL4;Q8IZD2;Q12873;Q9H7Z6;Q96BD5;O60264;Q9NXR7;Q68CP9;O95503;Q3L8U1;P06400;Q9UQL6}
- 8033 Pathogen[ P03363] interacts with 167 human partners: {Q9NQX1;Q9NPF5;P46379;Q8IXM2;Q9H160;Q9Y6J0;Q5VTD9;Q95619;Q8TDB6;O14744;Q8IXJ9;Q96JM7;Q68DK7;Q3L8U1;Q12830;Q8N5Y2;P54198;Q92925;P49459;Q6STE5;Q9Y468;Q9H8M2;Q58F21;Q14781;Q99543;Q9H5I1;Q9BY41;Q9H4L7;Q15022;Q96LA8;Q09028;Q96RL1;Q15291;Q9HC52;O00213;Q6UWZ7;Q9H7L9;Q15014;Q8TAQ2;Q6ZRS2;O15379;Q9H2F5;P51532;P82970;Q969S8;Q9BZK7;Q9H7E2;Q01826;Q9UBL3;O14497;Q52LR7;O75376;Q8N9N5;Q7Z589;Q15910;P35659;Q15910;Q9NPG3;Q5VTR2;Q9UQL6;O75164;Q8TEK3;Q9Y6K1;O75530;Q8IYW5;O15047;Q14839;P06400;Q13185;Q15652;Q8NI51;P28749;O43189;Q9HAF1;Q9C005;P49711;O75150;Q9UNL4;Q96BD5;O60264;Q9UM07;Q9BXF3;Q8NDN9;Q96T23;Q92560;Q9UBU8;Q9NVM4;Q9HCK8;Q16576;O96019;Q9NRG4;Q08999;Q9NWX8;Q9H2G4;Q14527;Q9UIF9;P35226;Q9UKV0;Q969G3;O95931;Q99504;Q7Z3B3;P26358;Q86U86;Q15542;Q94805;O14929;Q9NPA8;P0C860;Q9UPS6;Q96EZ8;Q13547;Q15651;Q9NR48;O14646;Q14CW9;Q06028;Q9H0E9;Q8WUI4;Q9NXR7;Q8NA19;Q9Y4A5;O00167;Q8TD26;O43159;O43463;P25440;Q96T88;Q12873;P28370;Q15059;Q9UKL0;Q9NQR1;Q9NQ92;P55895;Q86SE8;Q06587;Q8NFD5;Q96GM5;Q96ES7;Q6W2J9;Q92922;Q8WTS6;Q9P0W2;Q68CP9;Q95503;Q92800;Q95251;Q9UPW6;O00257;Q15047;Q9NRC8;Q9BTA9;Q9NP66;Q86Y97;Q8TBE0;Q8WYH8;Q9H0E9;Q92993;Q12824;Q86X55;Q5H9F3;O14686;Q15906;O75177;P51610;Q6W0C5}
- 8034 [Cluster 731]GO:0034314+P biological\_process [name] Arp2/3 complex-mediated actin nucleation [def] "The actin nucleation process in which actin monomers combine to form a new branch on the side of an existing actin filament\_ mediated by the Arp2/3 protein complex and its interaction with other proteins." [GOC
- 8035 Pathogen[ Q2Q067] interacts with 1 human partners: {Q8N9B5}
- 8036 Pathogen[ P0C214] interacts with 1 human partners: {Q8N9B5}
- 8037 Pathogen[ P03346] interacts with 2 human partners: {Q8N9B5;A8K0Z3}
- 8038 Pathogen[ Q85601] interacts with 1 human partners: {Q8N9B5}
- 8039 Pathogen[ P14079] interacts with 4 human partners: {Q8N9B5;Q6VEQ5;Q9NQA3;A8K0Z3}
- 8040 Pathogen[ P03383] interacts with 1 human partners: {Q8N9B5}
- 8041 Pathogen[ P03410] interacts with 4 human partners: {Q6VEQ5;Q8N9B5;Q9NQA3;A8K0Z3}
- 8042 Pathogen[ P14075] interacts with 1 human partners: {Q8N9B5}
- 8043 Pathogen[ P0C206] interacts with 2 human partners: {Q8N9B5;Q6VEQ5}
- 8044 Pathogen[ P03363] interacts with 1 human partners: {Q8N9B5}
- 8045 [Cluster 732]GO:0060047+P biological\_process [name] heart contraction [def] "The multicellular organismal process in which the heart decreases in volume in a

characteristic way to propel blood through the body." [GOC

8046 Pathogen[ Q2Q067] interacts with 2 human partners:{P60953;Q9H1Y0}

8047 Pathogen[ P0C214] interacts with 3 human partners:{P60953;P19429;Q9H1Y0}

8048 Pathogen[ P03346] interacts with 3 human partners:{P60953;Q9H1Y0;P10916}

8049 Pathogen[ Q85601] interacts with 2 human partners:{Q9H1Y0;P60953}

8050 Pathogen[ P14079] interacts with 4 human partners:{P19429;P10916;Q9H1Y0;P68032}

8051 Pathogen[ P03383] interacts with 2 human partners:{P60953;Q9H1Y0}

8052 Pathogen[ P03410] interacts with 4 human partners:{P10916;Q9H1Y0;P19429;P60953}

8053 Pathogen[ P14075] interacts with 2 human partners:{P60953;Q9H1Y0}

8054 Pathogen[ P0C206] interacts with 3 human partners:{P19429;Q9H1Y0;P60953}

8055 Pathogen[ P03363] interacts with 4 human partners:{P19429;P60953;Q9H1Y0;P10916}

8056 [Cluster 733]GO:0046587+P biological\_process [name] positive regulation of calcium-dependent cell-cell adhesion [def] "Any process that activates or increases the frequency, rate or extent of calcium-dependent cell-cell adhesion." [GOC

8057 Pathogen[ Q2Q067] interacts with 1 human partners:{Q92845}

8058 Pathogen[ P0C214] interacts with 1 human partners:{Q92845}

8059 Pathogen[ P03346] interacts with 1 human partners:{Q92845}

8060 Pathogen[ Q85601] interacts with 1 human partners:{Q92845}

8061 Pathogen[ P14079] interacts with 1 human partners:{Q92845}

8062 Pathogen[ P03383] interacts with 1 human partners:{Q92845}

8063 Pathogen[ P03410] interacts with 1 human partners:{Q92845}

8064 Pathogen[ P14075] interacts with 1 human partners:{Q92845}

8065 Pathogen[ P0C206] interacts with 1 human partners:{Q92845}

8066 Pathogen[ P03363] interacts with 1 human partners:{Q92845}

8067 [Cluster 734]GO:0006325+P biological\_process [name] chromatin organization [def] "Any process that results in the specification, formation or maintenance of the physical structure of eukaryotic chromatin." [GOC

8068 Pathogen[ Q2Q067] interacts with 15 human partners:{P05204;O43463;Q15910;O00570;Q9NP66;P05114;Q9H320;Q15424;Q9UQL6;Q2TAK8;O14497;O94805;O60248;Q01826;Q9P0W2}

8069 Pathogen[ P0C214] interacts with 15 human partners:{O14497;Q2TAK8;P05204;Q15910;O43463;Q9P0W2;Q15424;Q01826;Q9H320;P05114;O94805;Q9NP66;O60248;Q9UQL6;O00570}

8070 Pathogen[ P03346] interacts with 16 human partners:{O60248;Q9P0W2;P05114;Q2TAK8;O00570;O43463;Q9NP66;Q9HCS4;O14497;O94805;Q15910;Q15424;Q9H320;P05204;Q9UQL6;Q01826}

8071 Pathogen[ Q85601] interacts with 16 human partners:{Q9P0W2;Q9H320;Q9UQL6;Q15424;Q2TAK8;O14497;O43463;Q9NP66;O60248;Q01826;Q15910;O00570;P05114;Q9HCS4;O94805;P05204}

8072 Pathogen[ P14079] interacts with 14 human partners:{Q9UQL6;Q9H320;P05114;Q9NP66;Q01826;O14497;Q2TAK8;Q9P0W2;O94805;O60248;Q15424;P05204;O00570;Q15910}

8073 Pathogen[ P03383] interacts with 15 human partners:{O14497;O94805;O60248;Q9UQL6;P05204;O00570;Q9NP66;O43463;Q01826;Q2TAK8;Q9P0W2;P05114;Q15910;Q9H320;Q15424}

8074 Pathogen[ P03410] interacts with 16 human partners:{O14497;Q9P0W2;Q2TAK8;Q15424;Q9NP66;Q9UQL6;O00570;O94805;Q01826;Q15910;Q9HCS4;P05204;O60248;O43463;Q9H320;P05114}

8075 Pathogen[ P14075] interacts with 15 human partners:{P05204;O60248;Q2TAK8;Q15910;O00570;O14497;Q01826;Q15424;Q9H320;Q9NP66;O94805;O43463;Q9UQL6;Q9P0W2;P05114}

8076 Pathogen[ P0C206] interacts with 16 human partners:{P05114;P05204;O43463;Q9H320;Q9HCS4;Q15910;O60248;O00570;O14497;Q9P0W2;Q9NP66;Q15424;Q01826;Q2TAK8;O94805;Q9UQL6}

8077 Pathogen[ P03363] interacts with 16 human partners:{Q01826;O14497;Q15910;Q9UQL6;Q9HCS4;Q9H320;Q15424;O94805;P05114;Q2TAK8;O00570;O43463;O60248;Q9P0W2;P05204;Q9NP66}

8078 [Cluster 735]GO:0016482+P biological\_process [name] cytoplasmic transport [def] "The directed movement of substances (such as macromolecules, small molecules, ions) into, out of, or within the cytoplasm of a cell." [GOC

8079 Pathogen[ Q2Q067] interacts with 1 human partners:{075494}

8080 Pathogen[ P0C214] interacts with 1 human partners:{075494}

8081 Pathogen[ P03346] interacts with 1 human partners:{075494}

8082 Pathogen[ Q85601] interacts with 1 human partners:{075494}

8083 Pathogen[ P14079] interacts with 1 human partners:{075494}

8084 Pathogen[ P03383] interacts with 1 human partners:{075494}

8085 Pathogen[ P03410] interacts with 1 human partners:{075494}

8086 Pathogen[ P14075] interacts with 1 human partners:{075494}

8087 Pathogen[ P0C206] interacts with 1 human partners:{075494}

8088 Pathogen[ P03363] interacts with 1 human partners:{075494}

8089 [Cluster 736]GO:0071479+P biological\_process [name] cellular response to ionizing radiation [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a ionizing radiation stimulus. Ionizing radiation is radiation with sufficient energy to remove electrons from atoms and may arise from spontaneous decay of unstable isotopes, resulting in alpha and beta particles and gamma rays. Ionizing radiation also

includes X-rays." [GOC  
8090 Pathogen[ Q2Q067] interacts with 10 human  
partners:{Q9NVH2;Q99638;Q16666;Q9BSD3;P24522;P38936;Q9ULG1;P16455;O60671;O60921}  
8091 Pathogen[ POC214] interacts with 11 human  
partners:{Q9NVH2;P24522;P62993;Q16666;Q9ULG1;P38936;O60921;Q9BSD3;P16455;O60671;Q996  
38}  
8092 Pathogen[ P03346] interacts with 12 human  
partners:{O60921;Q16666;Q9BSD3;Q9ULG1;P62993;Q99638;Q9NVH2;O60671;P38936;O15516;Q9H8  
V3;P24522}  
8093 Pathogen[ Q85601] interacts with 10 human  
partners:{Q16666;P62993;P16455;O15516;P24522;O60921;Q9ULG1;O60671;P38936;Q99638}  
8094 Pathogen[ P14079] interacts with 12 human  
partners:{O60671;Q9ULG1;P16455;Q9NVH2;Q9BSD3;P38936;P24522;Q9H8V3;P62993;Q99638;O609  
21;Q16666}  
8095 Pathogen[ P03383] interacts with 7 human  
partners:{O60671;P24522;O60921;Q16666;Q99638;Q9BSD3;Q9NVH2}  
8096 Pathogen[ P03410] interacts with 12 human  
partners:{Q16666;Q9BSD3;P24522;Q9ULG1;P38936;Q99638;P16455;O60671;O60921;Q9NVH2;Q9H8  
V3;P62993}  
8097 Pathogen[ P14075] interacts with 7 human  
partners:{O60671;Q16666;Q99638;Q9NVH2;O60921;P24522;Q9BSD3}  
8098 Pathogen[ POC206] interacts with 13 human  
partners:{P24522;Q16666;Q9NVH2;P62993;Q99638;O15516;Q9ULG1;P38936;O60921;Q9H8V3;O606  
71;P16455;Q9BSD3}  
8099 Pathogen[ P03363] interacts with 8 human  
partners:{Q9BSD3;Q9ULG1;O60671;Q16666;P24522;Q9NVH2;Q99638;O60921}  
8100 [Cluster 737]GO:0032268+P biological\_process [name] regulation of cellular protein  
metabolic process [def] "Any process that modulates the frequency, rate or extent of  
the chemical reactions and pathways involving a protein, occurring at the level of an  
individual cell." [GOC  
8101 Pathogen[ Q2Q067] interacts with 1 human partners:{Q04323}  
8102 Pathogen[ POC214] interacts with 1 human partners:{Q04323}  
8103 Pathogen[ P03346] interacts with 1 human partners:{Q04323}  
8104 Pathogen[ Q85601] interacts with 1 human partners:{Q04323}  
8105 Pathogen[ P14079] interacts with 1 human partners:{Q04323}  
8106 Pathogen[ P03383] interacts with 1 human partners:{Q04323}  
8107 Pathogen[ P03410] interacts with 1 human partners:{Q04323}  
8108 Pathogen[ P14075] interacts with 1 human partners:{Q04323}  
8109 Pathogen[ POC206] interacts with 1 human partners:{Q04323}  
8110 Pathogen[ P03363] interacts with 1 human partners:{Q04323}  
8111 [Cluster 738]GO:0031120+P biological\_process [name] snRNA pseudouridine synthesis  
[def] "The intramolecular conversion of uridine to pseudouridine in an snRNA molecule."  
[GOC  
8112 Pathogen[ Q2Q067] interacts with 2 human partners:{Q96HR8;Q9NY12}  
8113 Pathogen[ POC214] interacts with 2 human partners:{Q9NY12;Q96HR8}  
8114 Pathogen[ P03346] interacts with 2 human partners:{Q9NY12;Q96HR8}  
8115 Pathogen[ Q85601] interacts with 2 human partners:{Q96HR8;Q9NY12}  
8116 Pathogen[ P14079] interacts with 2 human partners:{Q96HR8;Q9NY12}  
8117 Pathogen[ P03383] interacts with 2 human partners:{Q9NY12;Q96HR8}  
8118 Pathogen[ P03410] interacts with 2 human partners:{Q9NY12;Q96HR8}  
8119 Pathogen[ P14075] interacts with 2 human partners:{Q96HR8;Q9NY12}  
8120 Pathogen[ POC206] interacts with 2 human partners:{Q9NY12;Q96HR8}  
8121 Pathogen[ P03363] interacts with 2 human partners:{Q9NY12;Q96HR8}  
8122 [Cluster 739]GO:000076+P biological\_process [name] DNA replication checkpoint  
[def] "A cell cycle checkpoint that prevents the initiation of nuclear division until  
DNA replication is complete, thereby ensuring that progeny inherit a full complement of  
the genome." [GOC  
8123 Pathogen[ Q2Q067] interacts with 6 human  
partners:{Q99638;Q99741;Q9H211;O75419;O75943;Q9BVW5}  
8124 Pathogen[ POC214] interacts with 6 human  
partners:{Q9BVW5;Q9H211;O75943;O75419;Q99638;Q99741}  
8125 Pathogen[ P03346] interacts with 6 human  
partners:{Q99638;O75943;O75419;Q99741;Q9BVW5;Q9H211}  
8126 Pathogen[ Q85601] interacts with 6 human  
partners:{O75943;O75419;Q99741;Q9H211;Q99638;Q9BVW5}  
8127 Pathogen[ P14079] interacts with 6 human  
partners:{O75419;Q9H211;Q99741;O75943;Q99638;Q9BVW5}  
8128 Pathogen[ P03383] interacts with 5 human  
partners:{Q9BVW5;O75419;Q99638;Q9H211;Q99741}  
8129 Pathogen[ P03410] interacts with 6 human  
partners:{O75943;O75419;Q9BVW5;Q9H211;Q99638;Q99741}  
8130 Pathogen[ P14075] interacts with 5 human  
partners:{Q9H211;O75419;Q9BVW5;Q99638;Q99741}  
8131 Pathogen[ POC206] interacts with 6 human  
partners:{O75419;Q99741;O75943;Q99638;Q9BVW5;Q9H211}  
8132 Pathogen[ P03363] interacts with 6 human

partners:{Q9BVW5;Q99741;Q9H211;Q99638;O75943;O75419}

8133 [Cluster 740]GO:2000212+P biological\_process [name] negative regulation of glutamate metabolic process [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of glutamate metabolic process." [GOC

8134 Pathogen[ Q2Q067] interacts with 1 human partners:{Q86WG3}

8135 Pathogen[ P0C214] interacts with 1 human partners:{Q86WG3}

8136 Pathogen[ P03346] interacts with 1 human partners:{Q86WG3}

8137 Pathogen[ Q85601] interacts with 1 human partners:{Q86WG3}

8138 Pathogen[ P14079] interacts with 1 human partners:{Q86WG3}

8139 Pathogen[ P03383] interacts with 1 human partners:{Q86WG3}

8140 Pathogen[ P03410] interacts with 1 human partners:{Q86WG3}

8141 Pathogen[ P14075] interacts with 1 human partners:{Q86WG3}

8142 Pathogen[ P0C206] interacts with 1 human partners:{Q86WG3}

8143 Pathogen[ P03363] interacts with 1 human partners:{Q86WG3}

8144 [Cluster 741]GO:0060291+P biological\_process [name] long-term synaptic potentiation [def] "A process that modulates synaptic plasticity such that synapses are changed resulting in the increase in the rate, or frequency of synaptic transmission at the synapse." [GOC

8145 Pathogen[ Q2Q067] interacts with 1 human partners:{P14136}

8146 Pathogen[ P0C214] interacts with 2 human partners:{P14136;P07093}

8147 Pathogen[ P03346] interacts with 1 human partners:{P14136}

8148 Pathogen[ Q85601] interacts with 2 human partners:{P14136;P07093}

8149 Pathogen[ P14079] interacts with 1 human partners:{P14136}

8150 Pathogen[ P03383] interacts with 1 human partners:{P14136}

8151 Pathogen[ P03410] interacts with 1 human partners:{P14136}

8152 Pathogen[ P14075] interacts with 1 human partners:{P14136}

8153 Pathogen[ P0C206] interacts with 1 human partners:{P14136}

8154 Pathogen[ P03363] interacts with 1 human partners:{P14136}

8155 [Cluster 742]GO:0080009+P biological\_process [name] mRNA methylation [def] "The posttranscriptional addition of methyl groups to specific residues in an mRNA molecule." [PMID

8156 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8N1G2}

8157 Pathogen[ P0C214] interacts with 1 human partners:{Q8N1G2}

8158 Pathogen[ P03346] interacts with 1 human partners:{Q8N1G2}

8159 Pathogen[ Q85601] interacts with 1 human partners:{Q8N1G2}

8160 Pathogen[ P14079] interacts with 1 human partners:{Q8N1G2}

8161 Pathogen[ P03383] interacts with 1 human partners:{Q8N1G2}

8162 Pathogen[ P03410] interacts with 1 human partners:{Q8N1G2}

8163 Pathogen[ P14075] interacts with 1 human partners:{Q8N1G2}

8164 Pathogen[ P0C206] interacts with 1 human partners:{Q8N1G2}

8165 Pathogen[ P03363] interacts with 1 human partners:{Q8N1G2}

8166 [Cluster 743]GO:0050851+P biological\_process [name] antigen receptor-mediated signaling pathway [def] "A series of molecular signals initiated by the cross-linking of an antigen receptor on a B or T cell." [GOC

8167 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9NZD8;P56945}

8168 Pathogen[ P0C214] interacts with 2 human partners:{P56945;Q9NZD8}

8169 Pathogen[ P03346] interacts with 4 human partners:{Q9H6Q3;Q8I WV1;Q9NZD8;P56945}

8170 Pathogen[ Q85601] interacts with 2 human partners:{P56945;Q9H6Q3}

8171 Pathogen[ P14079] interacts with 2 human partners:{Q9H6Q3;Q8I WV1}

8172 Pathogen[ P03383] interacts with 2 human partners:{P56945;Q9NZD8}

8173 Pathogen[ P03410] interacts with 3 human partners:{Q8I WV1;P56945;Q9H6Q3}

8174 Pathogen[ P14075] interacts with 3 human partners:{Q8I WV1;Q9NZD8;P56945}

8175 Pathogen[ P0C206] interacts with 3 human partners:{Q9H6Q3;Q8I WV1;P56945}

8176 Pathogen[ P03363] interacts with 3 human partners:{Q9H6Q3;P56945;Q9NZD8}

8177 [Cluster 744]GO:0043484+P biological\_process [name] regulation of RNA splicing [def] "Any process that modulates the frequency, rate or extent of RNA splicing, the process of removing sections of the primary RNA transcript to remove sequences not present in the mature form of the RNA and joining the remaining sections to form the mature form of the RNA." [GOC

8178 Pathogen[ Q2Q067] interacts with 11 human partners:{Q9NR56;Q9H6T0;P31943;P08621;P51816;O43251;P52597;Q58F21;Q02040;P18583;A7MD48}

8179 Pathogen[ P0C214] interacts with 11 human partners:{Q58F21;Q9H6T0;Q9NR56;P18583;P08621;P52597;P51816;P31943;O43251;Q02040;Q5VZF2}

8180 Pathogen[ P03346] interacts with 15 human partners:{P18583;P08621;P31943;A7MD48;Q92879;Q58F21;Q5VZF2;Q9H6T0;O43251;Q02040;P52597;P51816;Q9NR56;Q9NUK0;Q9NWB1}

8181 Pathogen[ Q85601] interacts with 7 human partners:{P08621;Q9NR56;P52597;P18583;P31943;Q58F21;Q5VZF2}

8182 Pathogen[ P14079] interacts with 13 human partners:{Q5VZF2;Q58F21;Q9NR56;Q9H6T0;A7MD48;Q02040;P08621;P31943;Q9NUK0;P52597;Q9NWB1;P51816;P18583}

8183 Pathogen[ P03383] interacts with 10 human partners:{Q02040;Q9NR56;P51816;P31943;A7MD48;P18583;Q9H6T0;Q58F21;P08621;P52597}

8184 Pathogen[ P03410] interacts with 12 human

partners:{Q9NWB1;Q5VZF2;Q9NR56;P08621;P52597;P31943;P18583;Q9H6T0;A7MD48;P51816;Q58F21;Q02040}  
 8185 Pathogen[ P14075] interacts with 10 human  
 partners:{P51816;P08621;P31943;Q02040;Q58F21;Q9NR56;A7MD48;P52597;P18583;Q9H6T0}  
 8186 Pathogen[ P0C206] interacts with 12 human  
 partners:{P18583;Q9NR56;P51816;Q02040;P52597;Q9H6T0;A7MD48;Q58F21;P08621;Q9NUK0;Q5VZF2;P31943}  
 8187 Pathogen[ P03363] interacts with 15 human  
 partners:{P52597;Q58F21;Q92879;Q9NR56;P18583;P31943;Q9NWB1;Q02040;P08621;P51816;Q5VZF2;A7MD48;Q9H6T0;O43251;Q9NUK0}  
 8188 [Cluster 745]GO:0042255+P biological\_process [name] ribosome assembly [def] "The aggregation, arrangement and bonding together of the mature ribosome and of its subunits." [GOC  
 8189 Pathogen[ Q2Q067] interacts with 6 human  
 partners:{Q9BY44;Q2NL82;P06748;Q9H320;Q9Y221;Q7Z6M4}  
 8190 Pathogen[ P0C214] interacts with 6 human  
 partners:{Q9BY44;P06748;Q2NL82;Q7Z6M4;Q9Y221;Q9H320}  
 8191 Pathogen[ P03346] interacts with 6 human  
 partners:{P06748;Q9Y221;Q2NL82;Q7Z6M4;Q9BY44;Q9H320}  
 8192 Pathogen[ Q85601] interacts with 6 human  
 partners:{Q7Z6M4;Q9H320;Q9BY44;Q9Y221;P06748;Q2NL82}  
 8193 Pathogen[ P14079] interacts with 7 human  
 partners:{Q9H320;Q2NL82;Q9BY44;Q14692;P06748;Q7Z6M4;Q9Y221}  
 8194 Pathogen[ P03383] interacts with 6 human  
 partners:{P06748;Q9BY44;Q2NL82;Q9Y221;Q7Z6M4;Q9H320}  
 8195 Pathogen[ P03410] interacts with 7 human  
 partners:{Q14692;P06748;Q9BY44;Q9H320;Q2NL82;Q9Y221;Q7Z6M4}  
 8196 Pathogen[ P14075] interacts with 6 human  
 partners:{Q2NL82;Q9Y221;Q9H320;P06748;Q9BY44;Q7Z6M4}  
 8197 Pathogen[ P0C206] interacts with 7 human  
 partners:{Q7Z6M4;Q14692;Q9H320;Q9BY44;P06748;Q9Y221;Q2NL82}  
 8198 Pathogen[ P03363] interacts with 5 human  
 partners:{Q9BY44;P06748;Q9H320;Q2NL82;Q9Y221}  
 8199 [Cluster 746]GO:0045776+P biological\_process [name] negative regulation of blood pressure [def] "Any process in which the force of blood traveling through the circulatory system is decreased." [GOC  
 8200 Pathogen[ Q2Q067] interacts with 2 human partners:{P30793;P27986}  
 8201 Pathogen[ P0C214] interacts with 2 human partners:{P30793;P27986}  
 8202 Pathogen[ P03346] interacts with 1 human partners:{P27986}  
 8203 Pathogen[ Q85601] interacts with 2 human partners:{P30793;P27986}  
 8204 Pathogen[ P14079] interacts with 1 human partners:{P30793}  
 8205 Pathogen[ P03383] interacts with 1 human partners:{P27986}  
 8206 Pathogen[ P03410] interacts with 2 human partners:{P27986;P30793}  
 8207 Pathogen[ P14075] interacts with 2 human partners:{P27986;P30793}  
 8208 Pathogen[ P0C206] interacts with 2 human partners:{P30793;P27986}  
 8209 Pathogen[ P03363] interacts with 1 human partners:{P27986}  
 8210 [Cluster 747]GO:0045671+P biological\_process [name] negative regulation of osteoclast differentiation [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of osteoclast differentiation." [GOC  
 8211 Pathogen[ Q2Q067] interacts with 3 human partners:{Q8TD23;Q14106;P27986}  
 8212 Pathogen[ P0C214] interacts with 4 human partners:{O95633;Q8TD23;Q14106;P27986}  
 8213 Pathogen[ P03346] interacts with 4 human partners:{Q8TD23;Q14106;O95633;P27986}  
 8214 Pathogen[ Q85601] interacts with 3 human partners:{Q8TD23;Q14106;P27986}  
 8215 Pathogen[ P14079] interacts with 2 human partners:{Q8TD23;Q14106}  
 8216 Pathogen[ P03383] interacts with 3 human partners:{P27986;Q14106;Q8TD23}  
 8217 Pathogen[ P03410] interacts with 3 human partners:{P27986;Q14106;Q8TD23}  
 8218 Pathogen[ P14075] interacts with 3 human partners:{Q8TD23;Q14106;P27986}  
 8219 Pathogen[ P0C206] interacts with 4 human partners:{O95633;P27986;Q14106;Q8TD23}  
 8220 Pathogen[ P03363] interacts with 3 human partners:{Q14106;Q8TD23;P27986}  
 8221 [Cluster 748]GO:0051592+P biological\_process [name] response to calcium ion [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a calcium ion stimulus." [GOC  
 8222 Pathogen[ Q2Q067] interacts with 7 human  
 partners:{P50995;P24385;O75340;Q08209;P51948;Q96FQ6;Q9H3M7}  
 8223 Pathogen[ P0C214] interacts with 10 human  
 partners:{P60709;Q9H3M7;Q16613;O75340;P24385;P51948;Q08209;Q96FQ6;P63261;P50995}  
 8224 Pathogen[ P03346] interacts with 9 human  
 partners:{P24385;Q96FQ6;Q9UBV8;P60709;O75340;P50995;Q08209;Q9H3M7;P51948}  
 8225 Pathogen[ Q85601] interacts with 10 human  
 partners:{Q96FQ6;P24385;P50995;Q16613;P51948;Q08209;P60709;P63261;O75340;Q9H3M7}  
 8226 Pathogen[ P14079] interacts with 10 human  
 partners:{P63261;P41238;P50995;Q16613;O75340;P60709;Q9UBV8;Q9H3M7;Q08209;P51948}  
 8227 Pathogen[ P03383] interacts with 5 human  
 partners:{P50995;P51948;Q16613;P24385;Q9H3M7}  
 8228 Pathogen[ P03410] interacts with 12 human



partners:{P50995;Q08209;P41238;Q9H3M7;P55157;Q9UBV8;P24385;Q16613;P51948;P63261;O75340;P60709}

8229 Pathogen[ P14075] interacts with 5 human partners:{Q16613;P50995;Q9H3M7;P24385;P51948}

8230 Pathogen[ P0C206] interacts with 12 human partners:{O75340;P60709;Q9UBV8;P50995;P63261;Q9H3M7;Q08209;P41238;Q16613;Q96FQ6;P51948;P24385}

8231 Pathogen[ P03363] interacts with 7 human partners:{P60709;O75340;Q9H3M7;P50995;Q9UBV8;P24385;P63261}

8232 [Cluster 749]GO:0031915+P biological\_process [name] positive regulation of synaptic plasticity [def] "A process that increases synaptic plasticity, the ability of synapses to change as circumstances require. They may alter function, such as increasing or decreasing their sensitivity, or they may increase or decrease in actual numbers." [GOC

8233 Pathogen[ Q2Q067] interacts with 2 human partners:{Q12834;Q9UJX6}

8234 Pathogen[ P0C214] interacts with 2 human partners:{Q9UJX6;Q12834}

8235 Pathogen[ P03346] interacts with 2 human partners:{Q12834;Q9UJX6}

8236 Pathogen[ Q85601] interacts with 2 human partners:{Q9UJX6;Q12834}

8237 Pathogen[ P14079] interacts with 2 human partners:{Q6PUV4;Q9UJX6}

8238 Pathogen[ P03383] interacts with 2 human partners:{Q9UJX6;Q12834}

8239 Pathogen[ P03410] interacts with 3 human partners:{Q6PUV4;Q12834;Q9UJX6}

8240 Pathogen[ P14075] interacts with 2 human partners:{Q9UJX6;Q12834}

8241 Pathogen[ P0C206] interacts with 3 human partners:{Q6PUV4;Q9UJX6;Q12834}

8242 Pathogen[ P03363] interacts with 2 human partners:{Q9UJX6;Q12834}

8243 [Cluster 750]GO:0050689+P biological\_process [name] negative regulation of defense response to virus by host [def] "Any host process that results in the inhibition of antiviral immune response mechanisms, thereby facilitating viral replication. The host is defined as the larger of the organisms involved in a symbiotic interaction." [GOC

8244 Pathogen[ Q2Q067] interacts with 3 human partners:{Q15633;Q14653;P09914}

8245 Pathogen[ P0C214] interacts with 3 human partners:{P09914;Q15633;Q14653}

8246 Pathogen[ P03346] interacts with 3 human partners:{Q15633;Q14653;P09914}

8247 Pathogen[ Q85601] interacts with 3 human partners:{Q14653;Q15633;P09914}

8248 Pathogen[ P14079] interacts with 2 human partners:{Q14653;P09914}

8249 Pathogen[ P03383] interacts with 2 human partners:{Q14653;Q15633}

8250 Pathogen[ P03410] interacts with 3 human partners:{Q15633;Q14653;P09914}

8251 Pathogen[ P14075] interacts with 2 human partners:{Q14653;Q15633}

8252 Pathogen[ P0C206] interacts with 3 human partners:{Q15633;Q14653;P09914}

8253 Pathogen[ P03363] interacts with 3 human partners:{Q14653;P09914;Q15633}

8254 [Cluster 751]GO:0048568+P biological\_process [name] embryonic organ development [def] "Development, taking place during the embryonic phase, of a tissue or tissues that work together to perform a specific function or functions. Development pertains to the process whose specific outcome is the progression of a structure over time, from its formation to the mature structure. Organs are commonly observed as visibly distinct structures, but may also exist as loosely associated clusters of cells that work together to perform a specific function or functions." [GOC

8255 Pathogen[ Q2Q067] interacts with 2 human partners:{Q8WW38;P40424}

8256 Pathogen[ P0C214] interacts with 3 human partners:{P40424;Q9Y6I3;Q8WW38}

8257 Pathogen[ P03346] interacts with 7 human partners:{Q8WW38;P07992;Q9BYW2;P40424;Q9Y6I3;Q13394;Q9Y586}

8258 Pathogen[ Q85601] interacts with 3 human partners:{Q8WW38;P40424;Q9Y6I3}

8259 Pathogen[ P14079] interacts with 5 human partners:{Q9Y6I3;Q9Y586;Q13394;Q8WW38;P07992}

8260 Pathogen[ P03383] interacts with 2 human partners:{Q8WW38;P40424}

8261 Pathogen[ P03410] interacts with 6 human partners:{Q13394;Q9Y6I3;P07992;Q9Y586;Q8WW38;P40424}

8262 Pathogen[ P14075] interacts with 2 human partners:{P40424;Q8WW38}

8263 Pathogen[ P0C206] interacts with 6 human partners:{Q8WW38;Q13394;Q9Y586;P40424;P07992;Q9Y6I3}

8264 Pathogen[ P03363] interacts with 2 human partners:{P40424;Q8WW38}

8265 [Cluster 752]GO:0072554+P biological\_process [name] blood vessel lumenization [def] "The process in which a developing blood vessel forms an endothelial lumen through which blood will flow." [GOC

8266 Pathogen[ Q2Q067] interacts with 1 human partners:{Q06330}

8267 Pathogen[ P0C214] interacts with 1 human partners:{Q06330}

8268 Pathogen[ P03346] interacts with 1 human partners:{Q06330}

8269 Pathogen[ Q85601] interacts with 1 human partners:{Q06330}

8270 Pathogen[ P14079] interacts with 1 human partners:{Q06330}

8271 Pathogen[ P03383] interacts with 1 human partners:{Q06330}

8272 Pathogen[ P03410] interacts with 1 human partners:{Q06330}

8273 Pathogen[ P14075] interacts with 1 human partners:{Q06330}

8274 Pathogen[ P0C206] interacts with 1 human partners:{Q06330}

8275 Pathogen[ P03363] interacts with 1 human partners:{Q06330}

8276 [Cluster 753]GO:0030011+P biological\_process [name] maintenance of cell polarity [def] "The maintenance of established anisotropic intracellular organization or cell growth patterns." [GOC

8277 Pathogen[ Q2Q067] interacts with 1 human partners:{P54259}

8278 Pathogen[ P0C214] interacts with 1 human partners:{P54259}

8279 Pathogen[ P03346] interacts with 1 human partners:{P54259}  
8280 Pathogen[ Q85601] interacts with 1 human partners:{P54259}  
8281 Pathogen[ P14079] interacts with 1 human partners:{P54259}  
8282 Pathogen[ P03383] interacts with 1 human partners:{P54259}  
8283 Pathogen[ P03410] interacts with 1 human partners:{P54259}  
8284 Pathogen[ P14075] interacts with 1 human partners:{P54259}  
8285 Pathogen[ P0C206] interacts with 1 human partners:{P54259}  
8286 Pathogen[ P03363] interacts with 1 human partners:{P54259}  
8287 [Cluster 754]GO:0048538+P biological\_process [name] thymus development [def] "The process whose specific outcome is the progression of the thymus over time, from its formation to the mature structure. The thymus is a symmetric bi-lobed organ involved primarily in the differentiation of immature to mature T cells, with unique vascular, nervous, epithelial, and lymphoid cell components." [GOC  
8288 Pathogen[ Q2Q067] interacts with 4 human partners:{O43365;O95067;P10242;P40424}  
8289 Pathogen[ P0C214] interacts with 4 human partners:{P40424;O43365;O95067;P10242}  
8290 Pathogen[ P03346] interacts with 9 human partners:{P15863;Q9UIU6;O95067;O43365;P10242;P46109;Q15475;P61968;P40424}  
8291 Pathogen[ Q85601] interacts with 5 human partners:{P61968;P10242;P40424;O43365;O95067}  
8292 Pathogen[ P14079] interacts with 4 human partners:{P46109;O95067;O43365;P10242}  
8293 Pathogen[ P03383] interacts with 4 human partners:{P40424;O43365;O95067;P10242}  
8294 Pathogen[ P03410] interacts with 5 human partners:{P10242;O95067;P40424;P46109;O43365}  
8295 Pathogen[ P14075] interacts with 4 human partners:{O95067;P40424;P10242;O43365}  
8296 Pathogen[ P0C206] interacts with 6 human partners:{O43365;P10242;P40424;Q13422;O95067;P61968}  
8297 Pathogen[ P03363] interacts with 5 human partners:{O43365;P46109;O95067;P10242;P40424}  
8298 [Cluster 755]GO:0051209+P biological\_process [name] release of sequestered calcium ion into cytosol [def] "The process in which calcium ions sequestered in the endoplasmic reticulum or mitochondria are released into the cytosolic compartment." [GOC  
8299 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BXH1}  
8300 Pathogen[ P0C214] interacts with 1 human partners:{Q9BXH1}  
8301 Pathogen[ P03346] interacts with 2 human partners:{Q9P2D0;Q9BXH1}  
8302 Pathogen[ Q85601] interacts with 2 human partners:{Q9BXH1;Q9P2D0}  
8303 Pathogen[ P14079] interacts with 2 human partners:{Q9BXH1;Q9P2D0}  
8304 Pathogen[ P03383] interacts with 1 human partners:{Q9BXH1}  
8305 Pathogen[ P03410] interacts with 2 human partners:{Q9BXH1;Q9P2D0}  
8306 Pathogen[ P14075] interacts with 1 human partners:{Q9BXH1}  
8307 Pathogen[ P0C206] interacts with 2 human partners:{Q9BXH1;Q9P2D0}  
8308 Pathogen[ P03363] interacts with 3 human partners:{Q9P2D0;Q8IWX8;Q9BXH1}  
8309 [Cluster 756]GO:0006699+P biological\_process [name] bile acid biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of bile acids, any of a group of steroid carboxylic acids occurring in bile." [GOC  
8310 Pathogen[ Q2Q067] interacts with 2 human partners:{O14734;P20823}  
8311 Pathogen[ P0C214] interacts with 1 human partners:{O14734}  
8312 Pathogen[ P03346] interacts with 2 human partners:{P20823;O14734}  
8313 Pathogen[ Q85601] interacts with 2 human partners:{O14734;P20823}  
8314 Pathogen[ P14079] interacts with 1 human partners:{O14734}  
8315 Pathogen[ P03383] interacts with 1 human partners:{O14734}  
8316 Pathogen[ P03410] interacts with 1 human partners:{O14734}  
8317 Pathogen[ P14075] interacts with 1 human partners:{O14734}  
8318 Pathogen[ P0C206] interacts with 2 human partners:{P20823;O14734}  
8319 Pathogen[ P03363] interacts with 1 human partners:{O14734}  
8320 [Cluster 757]GO:0061101+P biological\_process [name] neuroendocrine cell differentiation [def] "The process in which a relatively unspecialized cell acquires specialized structural and/or functional features of a neuroendocrine cell. A neuroendocrine cell is a cell that receives input from a neuron which controls the secretion of an endocrine substance." [GOC  
8321 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9P287}  
8322 Pathogen[ P0C214] interacts with 1 human partners:{Q9P287}  
8323 Pathogen[ P03346] interacts with 1 human partners:{Q9P287}  
8324 Pathogen[ Q85601] interacts with 1 human partners:{Q9P287}  
8325 Pathogen[ P14079] interacts with 1 human partners:{Q9P287}  
8326 Pathogen[ P03383] interacts with 1 human partners:{Q9P287}  
8327 Pathogen[ P03410] interacts with 1 human partners:{Q9P287}  
8328 Pathogen[ P14075] interacts with 1 human partners:{Q9P287}  
8329 Pathogen[ P0C206] interacts with 1 human partners:{Q9P287}  
8330 Pathogen[ P03363] interacts with 1 human partners:{Q9P287}  
8331 [Cluster 758]GO:0016050+P biological\_process [name] vesicle organization [def] "A process that is carried out at the cellular level which results in the assembly, arrangement of constituent parts, or disassembly of a vesicle." [GOC  
8332 Pathogen[ Q2Q067] interacts with 2 human partners:{O00401;Q9UKT4}  
8333 Pathogen[ P0C214] interacts with 2 human partners:{O00401;Q9UKT4}  
8334 Pathogen[ P03346] interacts with 6 human partners:{Q7Z3T8;P42566;Q9UKT4;Q96S99;O00401;Q9ULU8}

8335 Pathogen[ Q85601] interacts with 3 human partners:{000401;Q96S99;Q9UKT4}  
8336 Pathogen[ P14079] interacts with 6 human  
partners:{Q9UKT4;Q9ULU8;P42566;Q96S99;Q7Z3T8;000401}  
8337 Pathogen[ P03383] interacts with 2 human partners:{Q9UKT4;000401}  
8338 Pathogen[ P03410] interacts with 6 human  
partners:{Q9UKT4;Q96S99;000401;Q9ULU8;P42566;Q7Z3T8}  
8339 Pathogen[ P14075] interacts with 2 human partners:{Q9UKT4;000401}  
8340 Pathogen[ P0C206] interacts with 6 human  
partners:{Q9UKT4;Q7Z3T8;Q9ULU8;000401;Q96S99;P42566}  
8341 Pathogen[ P03363] interacts with 2 human partners:{Q9UKT4;000401}  
8342 [Cluster 759]GO:0001787+P biological\_process [name] natural killer cell proliferation  
[def] "The expansion of a natural killer cell population by cell division." [GOC  
8343 Pathogen[ Q2Q067] interacts with 1 human partners:{Q99607}  
8344 Pathogen[ P0C214] interacts with 1 human partners:{Q99607}  
8345 Pathogen[ P03346] interacts with 1 human partners:{Q99607}  
8346 Pathogen[ Q85601] interacts with 1 human partners:{Q99607}  
8347 Pathogen[ P14079] interacts with 1 human partners:{Q99607}  
8348 Pathogen[ P03383] interacts with 1 human partners:{Q99607}  
8349 Pathogen[ P03410] interacts with 1 human partners:{Q99607}  
8350 Pathogen[ P14075] interacts with 1 human partners:{Q99607}  
8351 Pathogen[ P0C206] interacts with 1 human partners:{Q99607}  
8352 Pathogen[ P03363] interacts with 1 human partners:{Q99607}  
8353 [Cluster 760]GO:0001738+P biological\_process [name] morphogenesis of a polarized  
epithelium [def] "The morphogenetic process in which the anatomical structures of a  
polarized epithelium are generated and organized. A polarized epithelium is an  
epithelium where the epithelial sheet is oriented with respect to the planar axis." [GOC  
8354 Pathogen[ Q2Q067] interacts with 1 human partners:{060716}  
8355 Pathogen[ P0C214] interacts with 1 human partners:{060716}  
8356 Pathogen[ P03346] interacts with 2 human partners:{060716;Q8N157}  
8357 Pathogen[ Q85601] interacts with 1 human partners:{060716}  
8358 Pathogen[ P14079] interacts with 2 human partners:{Q8N157;060716}  
8359 Pathogen[ P03383] interacts with 1 human partners:{060716}  
8360 Pathogen[ P03410] interacts with 2 human partners:{060716;Q8N157}  
8361 Pathogen[ P14075] interacts with 1 human partners:{060716}  
8362 Pathogen[ P0C206] interacts with 2 human partners:{060716;Q8N157}  
8363 Pathogen[ P03363] interacts with 2 human partners:{Q8N157;060716}  
8364 [Cluster 761]GO:0070301+P biological\_process [name] cellular response to hydrogen  
peroxide [def] "Any process that results in a change in state or activity of a cell  
(in terms of movement, secretion, enzyme production, gene expression, etc.) as a result  
of a hydrogen peroxide (H2O2) stimulus." [CHEBI  
8365 Pathogen[ Q2Q067] interacts with 3 human partners:{P14921;Q99497;Q12983}  
8366 Pathogen[ P0C214] interacts with 3 human partners:{P14921;Q99497;Q12983}  
8367 Pathogen[ P03346] interacts with 7 human  
partners:{P07148;Q9Y5W3;Q12983;P14921;Q99497;Q9HB21;Q9H8V3}  
8368 Pathogen[ Q85601] interacts with 4 human partners:{Q99497;P14921;Q9HB21;Q12983}  
8369 Pathogen[ P14079] interacts with 6 human  
partners:{P04083;Q99497;Q9H8V3;Q12983;Q9Y5W3;Q9HB21}  
8370 Pathogen[ P03383] interacts with 2 human partners:{P14921;Q12983}  
8371 Pathogen[ P03410] interacts with 5 human  
partners:{Q99497;Q12983;Q9HB21;Q9H8V3;P14921}  
8372 Pathogen[ P14075] interacts with 2 human partners:{Q12983;P14921}  
8373 Pathogen[ P0C206] interacts with 5 human  
partners:{P14921;Q99497;Q12983;Q9H8V3;Q9HB21}  
8374 Pathogen[ P03363] interacts with 1 human partners:{P14921}  
8375 [Cluster 762]GO:0015879+P biological\_process [name] carnitine transport [def] "The  
directed movement of carnitine into, out of or within a cell, or between cells, by means  
of some agent such as a transporter or pore. Carnitine is a compound that participates  
in the transfer of acyl groups across the inner mitochondrial membrane." [GOC  
8376 Pathogen[ Q2Q067] interacts with 1 human partners:{Q5T2W1}  
8377 Pathogen[ P0C214] interacts with 1 human partners:{Q5T2W1}  
8378 Pathogen[ P03346] interacts with 1 human partners:{Q5T2W1}  
8379 Pathogen[ Q85601] interacts with 1 human partners:{Q5T2W1}  
8380 Pathogen[ P14079] interacts with 1 human partners:{Q5T2W1}  
8381 Pathogen[ P03383] interacts with 1 human partners:{Q5T2W1}  
8382 Pathogen[ P03410] interacts with 1 human partners:{Q5T2W1}  
8383 Pathogen[ P14075] interacts with 1 human partners:{Q5T2W1}  
8384 Pathogen[ P0C206] interacts with 1 human partners:{Q5T2W1}  
8385 Pathogen[ P03363] interacts with 1 human partners:{Q5T2W1}  
8386 [Cluster 763]GO:0034767+P biological\_process [name] positive regulation of ion  
transmembrane transport [def] "Any process that activates or increases the frequency,  
rate or extent of the directed movement of ions from one side of a membrane to the  
other." [GOC  
8387 Pathogen[ Q2Q067] interacts with 1 human partners:{Q5T2W1}  
8388 Pathogen[ P0C214] interacts with 1 human partners:{Q5T2W1}  
8389 Pathogen[ P03346] interacts with 1 human partners:{Q5T2W1}  
8390 Pathogen[ Q85601] interacts with 1 human partners:{Q5T2W1}

8391 Pathogen[ P14079] interacts with 1 human partners:{Q5T2W1}

8392 Pathogen[ P03383] interacts with 1 human partners:{Q5T2W1}

8393 Pathogen[ P03410] interacts with 1 human partners:{Q5T2W1}

8394 Pathogen[ P14075] interacts with 1 human partners:{Q5T2W1}

8395 Pathogen[ P0C206] interacts with 1 human partners:{Q5T2W1}

8396 Pathogen[ P03363] interacts with 1 human partners:{Q5T2W1}

8397 [Cluster 764]GO:0042098+P biological\_process [name] T cell proliferation [def] "The expansion of a T cell population by cell division. Follows T cell activation." [GOC

8398 Pathogen[ Q2Q067] interacts with 3 human partners:{P30281;P40306;Q9UDY8}

8399 Pathogen[ P0C214] interacts with 3 human partners:{Q9UDY8;P40306;P30281}

8400 Pathogen[ P03346] interacts with 4 human partners:{P30281;Q9UDY8;Q9Y2Y4;P40306}

8401 Pathogen[ Q85601] interacts with 4 human partners:{P30281;Q9UDY8;Q9Y2Y4;P40306}

8402 Pathogen[ P14079] interacts with 4 human partners:{Q9Y2Y4;P40306;Q92542;P16298}

8403 Pathogen[ P03383] interacts with 2 human partners:{P40306;P30281}

8404 Pathogen[ P03410] interacts with 4 human partners:{P40306;P30281;Q9Y2Y4;Q92542}

8405 Pathogen[ P14075] interacts with 2 human partners:{P30281;P40306}

8406 Pathogen[ P0C206] interacts with 5 human partners:{P40306;Q9UDY8;Q92542;Q9Y2Y4;P30281}

8407 Pathogen[ P03363] interacts with 2 human partners:{Q9Y2Y4;P30281}

8408 [Cluster 765]GO:0051568+P biological\_process [name] histone H3-K4 methylation [def] "The modification of histone H3 by addition of a methyl group to lysine at position 4 of the histone." [GOC

8409 Pathogen[ Q2Q067] interacts with 6 human partners:{Q8IZD2;Q6ZW49;Q9C005;Q9P0U4;O14686;Q9UBL3}

8410 Pathogen[ P0C214] interacts with 3 human partners:{Q6ZW49;Q9C005;Q8IZD2}

8411 Pathogen[ P03346] interacts with 7 human partners:{Q9C005;Q15291;Q9UBL3;Q9P0U4;O14686;Q8IZD2;Q6ZW49}

8412 Pathogen[ Q85601] interacts with 6 human partners:{O14686;Q9UBL3;Q9P0U4;Q9C005;Q6ZW49;Q8IZD2}

8413 Pathogen[ P14079] interacts with 4 human partners:{Q9C005;Q9UBL3;Q6ZW49;Q9P0U4}

8414 Pathogen[ P03383] interacts with 2 human partners:{Q6ZW49;Q9C005}

8415 Pathogen[ P03410] interacts with 3 human partners:{Q9P0U4;Q9C005;Q6ZW49}

8416 Pathogen[ P14075] interacts with 2 human partners:{Q6ZW49;Q9C005}

8417 Pathogen[ P0C206] interacts with 6 human partners:{Q9P0U4;Q9C005;Q6ZW49;O14686;Q9UBL3;Q8IZD2}

8418 Pathogen[ P03363] interacts with 8 human partners:{Q15291;Q9UBL3;Q9P0U4;O15047;Q9C005;Q9UPS6;Q6ZW49;O14686}

8419 [Cluster 766]GO:0045773+P biological\_process [name] positive regulation of axon extension [def] "Any process that activates or increases the frequency, rate or extent of axon extension." [GOC

8420 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9H2P0;Q9UJX6}

8421 Pathogen[ P0C214] interacts with 2 human partners:{Q9UJX6;Q9H2P0}

8422 Pathogen[ P03346] interacts with 2 human partners:{Q9H2P0;Q9UJX6}

8423 Pathogen[ Q85601] interacts with 3 human partners:{Q9UJX6;Q9H2P0;Q9GZM8}

8424 Pathogen[ P14079] interacts with 5 human partners:{Q9NP84;Q9H2P0;Q9GZM8;Q9UJX6;P10636}

8425 Pathogen[ P03383] interacts with 1 human partners:{Q9UJX6}

8426 Pathogen[ P03410] interacts with 4 human partners:{Q9GZM8;P10636;Q9NP84;Q9UJX6}

8427 Pathogen[ P14075] interacts with 1 human partners:{Q9UJX6}

8428 Pathogen[ P0C206] interacts with 4 human partners:{P10636;Q9GZM8;Q9UJX6;Q9H2P0}

8429 Pathogen[ P03363] interacts with 2 human partners:{Q9H2P0;Q9UJX6}

8430 [Cluster 767]GO:0021547+P biological\_process [name] midbrain-hindbrain boundary initiation [def] "The regionalization process that gives rise to the midbrain-hindbrain boundary. The midbrain-hindbrain domain of the embryonic brain is comprised of the mesencephalic vesicle and the first rhombencephalic vesicle at early somitogenesis stages. An organizing center at the boundary patterns the midbrain and hindbrain primordia of the neural plate." [GO\_REF

8431 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BWW4}

8432 Pathogen[ P0C214] interacts with 1 human partners:{Q9BWW4}

8433 Pathogen[ P03346] interacts with 1 human partners:{Q9BWW4}

8434 Pathogen[ Q85601] interacts with 1 human partners:{Q9BWW4}

8435 Pathogen[ P14079] interacts with 1 human partners:{Q9BWW4}

8436 Pathogen[ P03383] interacts with 1 human partners:{Q9BWW4}

8437 Pathogen[ P03410] interacts with 1 human partners:{Q9BWW4}

8438 Pathogen[ P14075] interacts with 1 human partners:{Q9BWW4}

8439 Pathogen[ P0C206] interacts with 1 human partners:{Q9BWW4}

8440 Pathogen[ P03363] interacts with 1 human partners:{Q9BWW4}

8441 [Cluster 768]GO:0002070+P biological\_process [name] epithelial cell maturation [def] "The developmental process, independent of morphogenetic (shape) change, that is required for an epithelial cell to attain its fully functional state. An epithelial cell is a cell usually found in a two-dimensional sheet with a free surface." [GOC

8442 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9NZI6;Q9UK73;P17861}

8443 Pathogen[ P0C214] interacts with 3 human partners:{P17861;Q9NZI6;Q9UK73}

8444 Pathogen[ P03346] interacts with 4 human partners:{P06401;Q9NZI6;P17861;Q9UK73}

8445 Pathogen[ Q85601] interacts with 3 human partners:{Q9UK73;Q9NZI6;P17861}

8446 Pathogen[ P14079] interacts with 2 human partners:{Q9UK73;Q9NZI6}

8447 Pathogen[ P03383] interacts with 3 human partners:{Q9UK73;P17861;Q9NZI6}  
8448 Pathogen[ P03410] interacts with 3 human partners:{P17861;Q9UK73;Q9NZI6}  
8449 Pathogen[ P14075] interacts with 3 human partners:{Q9UK73;P17861;Q9NZI6}  
8450 Pathogen[ P0C206] interacts with 4 human partners:{P06401;Q9UK73;P17861;Q9NZI6}  
8451 Pathogen[ P03363] interacts with 3 human partners:{Q9NZI6;P17861;Q9UK73}  
8452 [Cluster 769]GO:0006949+P biological\_process [name] syncytium formation [def] "The formation of a syncytium, a mass of cytoplasm containing several nuclei enclosed within a single plasma membrane. Syncytia are normally derived from single cells that fuse or fail to complete cell division." [ISBN  
8453 Pathogen[ Q2Q067] interacts with 1 human partners:{P51959}  
8454 Pathogen[ P0C214] interacts with 1 human partners:{P51959}  
8455 Pathogen[ P03346] interacts with 2 human partners:{P07992;P51959}  
8456 Pathogen[ Q85601] interacts with 1 human partners:{P51959}  
8457 Pathogen[ P14079] interacts with 2 human partners:{P51959;P07992}  
8458 Pathogen[ P03383] interacts with 1 human partners:{P51959}  
8459 Pathogen[ P03410] interacts with 2 human partners:{P07992;P51959}  
8460 Pathogen[ P14075] interacts with 1 human partners:{P51959}  
8461 Pathogen[ P0C206] interacts with 2 human partners:{P07992;P51959}  
8462 Pathogen[ P03363] interacts with 1 human partners:{P51959}  
8463 [Cluster 770]GO:0002328+P biological\_process [name] pro-B cell differentiation [def] "The process in which a precursor cell type acquires the specialized features of a pro-B cell. Pro-B cells are the earliest stage of the B cell lineage and undergo heavy chain D and J gene rearrangements, although they are not fully committed." [GOC  
8464 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13426}  
8465 Pathogen[ P0C214] interacts with 1 human partners:{Q13426}  
8466 Pathogen[ P03346] interacts with 2 human partners:{Q06945;Q13426}  
8467 Pathogen[ Q85601] interacts with 1 human partners:{Q13426}  
8468 Pathogen[ P14079] interacts with 2 human partners:{Q13426;P49917}  
8469 Pathogen[ P03383] interacts with 1 human partners:{Q13426}  
8470 Pathogen[ P03410] interacts with 1 human partners:{Q13426}  
8471 Pathogen[ P14075] interacts with 1 human partners:{Q13426}  
8472 Pathogen[ P0C206] interacts with 2 human partners:{P49917;Q13426}  
8473 Pathogen[ P03363] interacts with 1 human partners:{Q13426}  
8474 [Cluster 771]GO:0043267+P biological\_process [name] negative regulation of potassium ion transport [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the directed movement of potassium ions (K+) into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore." [GOC  
8475 Pathogen[ Q2Q067] interacts with 1 human partners:{P29474}  
8476 Pathogen[ P0C214] interacts with 1 human partners:{P29474}  
8477 Pathogen[ P03346] interacts with 1 human partners:{P29474}  
8478 Pathogen[ Q85601] interacts with 1 human partners:{P29474}  
8479 Pathogen[ P14079] interacts with 2 human partners:{P24588;O43612}  
8480 Pathogen[ P03383] interacts with 1 human partners:{P29474}  
8481 Pathogen[ P03410] interacts with 3 human partners:{O43612;P29474;P24588}  
8482 Pathogen[ P14075] interacts with 1 human partners:{P29474}  
8483 Pathogen[ P0C206] interacts with 1 human partners:{P29474}  
8484 Pathogen[ P03363] interacts with 1 human partners:{P29474}  
8485 [Cluster 772]GO:0032700+P biological\_process [name] negative regulation of interleukin-17 production [def] "Any process that stops, prevents, or reduces the frequency, rate, or extent of production of any member of the interleukin-17 family of cytokines." [GOC  
8486 Pathogen[ Q2Q067] interacts with 1 human partners:{P04156}  
8487 Pathogen[ P0C214] interacts with 1 human partners:{P04156}  
8488 Pathogen[ P03346] interacts with 1 human partners:{P04156}  
8489 Pathogen[ Q85601] interacts with 1 human partners:{P04156}  
8490 Pathogen[ P14079] interacts with 2 human partners:{P04156;P29459}  
8491 Pathogen[ P03383] interacts with 1 human partners:{P04156}  
8492 Pathogen[ P03410] interacts with 2 human partners:{P04156;P29459}  
8493 Pathogen[ P14075] interacts with 1 human partners:{P04156}  
8494 Pathogen[ P0C206] interacts with 1 human partners:{P04156}  
8495 Pathogen[ P03363] interacts with 1 human partners:{P04156}  
8496 [Cluster 773]GO:2000300+P biological\_process [name] regulation of synaptic vesicle exocytosis [def] "Any process that modulates the frequency, rate or extent of synaptic vesicle exocytosis." [GOC  
8497 Pathogen[ Q2Q067] interacts with 1 human partners:{P35080}  
8498 Pathogen[ P0C214] interacts with 1 human partners:{P35080}  
8499 Pathogen[ P03346] interacts with 1 human partners:{P35080}  
8500 Pathogen[ Q85601] interacts with 1 human partners:{P35080}  
8501 Pathogen[ P14079] interacts with 1 human partners:{P35080}  
8502 Pathogen[ P03383] interacts with 1 human partners:{P35080}  
8503 Pathogen[ P03410] interacts with 1 human partners:{P35080}  
8504 Pathogen[ P14075] interacts with 1 human partners:{P35080}  
8505 Pathogen[ P0C206] interacts with 1 human partners:{P35080}  
8506 Pathogen[ P03363] interacts with 1 human partners:{P35080}  
8507 [Cluster 774]GO:0007143+P biological\_process [name] female meiosis [def] "A cell cycle process comprising the steps by which a cell progresses through the nuclear

division phase of a meiotic cell cycle in the female germline." [GOC

8508 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BX26}

8509 Pathogen[ POC214] interacts with 1 human partners:{Q9BX26}

8510 Pathogen[ P03346] interacts with 1 human partners:{Q9BX26}

8511 Pathogen[ Q85601] interacts with 1 human partners:{Q9BX26}

8512 Pathogen[ P14079] interacts with 1 human partners:{Q9BX26}

8513 Pathogen[ P03383] interacts with 1 human partners:{Q9BX26}

8514 Pathogen[ P03410] interacts with 1 human partners:{Q9BX26}

8515 Pathogen[ P14075] interacts with 1 human partners:{Q9BX26}

8516 Pathogen[ POC206] interacts with 1 human partners:{Q9BX26}

8517 Pathogen[ P03363] interacts with 1 human partners:{Q9BX26}

8518 [Cluster 775]GO:0000381+P biological\_process [name] regulation of alternative nuclear mRNA splicing, via spliceosome [def] "Any process that modulates the frequency, rate or extent of alternative splicing of nuclear mRNAs." [GOC

8519 Pathogen[ Q2Q067] interacts with 7 human partners:{Q9NR56;Q8NDT2;P15172;P49756;P38159;O43251;Q9H0G5}

8520 Pathogen[ POC214] interacts with 8 human partners:{P38159;P26599;Q9NR56;P15172;Q9H0G5;Q8NDT2;O43251;P49756}

8521 Pathogen[ P03346] interacts with 12 human partners:{P0DJD3;P15172;P26599;P52756;Q9BWF3;Q9H0G5;Q8NDT2;P49756;O43251;P38159;P62995;Q9NR56}

8522 Pathogen[ Q85601] interacts with 6 human partners:{P49756;P15172;Q9NR56;Q9H0G5;Q8NDT2;P38159}

8523 Pathogen[ P14079] interacts with 7 human partners:{Q9NR56;P26599;P49756;Q9H0G5;P52756;Q8NDT2;P38159}

8524 Pathogen[ P03383] interacts with 6 human partners:{P15172;Q9NR56;P38159;P49756;Q8NDT2;Q9H0G5}

8525 Pathogen[ P03410] interacts with 6 human partners:{Q9H0G5;Q9NR56;P26599;P49756;Q8NDT2;P38159}

8526 Pathogen[ P14075] interacts with 6 human partners:{P49756;P38159;P15172;Q9NR56;Q8NDT2;Q9H0G5}

8527 Pathogen[ POC206] interacts with 6 human partners:{Q9NR56;Q9H0G5;P38159;P15172;P49756;Q8NDT2}

8528 Pathogen[ P03363] interacts with 14 human partners:{P0DJD3;Q9H0G5;P49756;Q9NR56;Q9BWF3;Q9J87;P38159;P26599;Q5SZQ8;P62995;P15172;O43251;Q8NDT2;P52756}

8529 [Cluster 776]GO:0031069+P biological\_process [name] hair follicle morphogenesis [def] "The process in which the anatomical structures of the hair follicle are generated and organized." [GOC

8530 Pathogen[ Q2Q067] interacts with 6 human partners:{Q7Z3Z0;Q01196;Q7Z3Y8;Q3SY84;Q13761;P60953}

8531 Pathogen[ POC214] interacts with 5 human partners:{Q13761;Q7Z3Y8;Q3SY84;P60953;Q7Z3Z0}

8532 Pathogen[ P03346] interacts with 7 human partners:{Q3SY84;Q7Z3Y8;Q7Z3Z0;P60953;O95863;Q13761;Q01196}

8533 Pathogen[ Q85601] interacts with 5 human partners:{Q3SY84;Q7Z3Y8;Q7Z3Z0;P60953;Q13761}

8534 Pathogen[ P14079] interacts with 4 human partners:{Q3SY84;Q7Z3Z0;Q7Z3Y8;Q13761}

8535 Pathogen[ P03383] interacts with 5 human partners:{Q13761;Q7Z3Z0;P60953;Q7Z3Y8;Q3SY84}

8536 Pathogen[ P03410] interacts with 5 human partners:{Q7Z3Z0;Q3SY84;P60953;Q13761;Q7Z3Y8}

8537 Pathogen[ P14075] interacts with 5 human partners:{P60953;Q7Z3Z0;Q7Z3Y8;Q3SY84;Q13761}

8538 Pathogen[ POC206] interacts with 5 human partners:{Q7Z3Z0;P60953;Q7Z3Y8;Q3SY84;Q13761}

8539 Pathogen[ P03363] interacts with 6 human partners:{Q3SY84;Q7Z3Y8;P19883;Q7Z3Z0;Q13761;P60953}

8540 [Cluster 777]GO:0001892+P biological\_process [name] embryonic placenta development [def] "The embryonically driven process whose specific outcome is the progression of the placenta over time, from its formation to the mature structure. The placenta is an organ of metabolic interchange between fetus and mother, partly of embryonic origin and partly of maternal origin." [GOC

8541 Pathogen[ Q2Q067] interacts with 10 human partners:{P27540;Q00613;Q02447;P17676;P08047;P23769;P19484;Q99814;Q12830;P49715}

8542 Pathogen[ POC214] interacts with 9 human partners:{Q00613;P19484;P23769;P17676;Q02447;Q99814;P27540;P08047;Q12830}

8543 Pathogen[ P03346] interacts with 13 human partners:{Q12830;P17676;P19484;Q00613;P23769;P27540;O75626;P49715;P08047;Q99814;O95718;Q02447;Q9UJU5}

8544 Pathogen[ Q85601] interacts with 11 human partners:{P17676;P19484;P23769;Q99814;P27540;Q00613;Q12830;P08047;Q02447;P49715;O75626}

8545 Pathogen[ P14079] interacts with 11 human partners:{Q99814;O75626;Q02447;P19484;O95718;Q00613;P49715;P27540;Q12830;P04141;P23769}

8546 Pathogen[ P03383] interacts with 8 human partners: {Q12830;P08047;P27540;P19484;P23769;Q02447;P17676;Q00613}

8547 Pathogen[ P03410] interacts with 11 human partners: {Q00613;P04141;P17676;Q02447;Q99814;Q12830;P19484;P27540;P23769;P08047;Q75626}

8548 Pathogen[ P14075] interacts with 8 human partners: {Q00613;P23769;P19484;P27540;Q12830;Q02447;P17676;P08047}

8549 Pathogen[ P0C206] interacts with 12 human partners: {Q00613;Q75626;P49715;P19484;Q95718;P17676;P08047;Q02447;P23769;P27540;Q99814;Q12830}

8550 Pathogen[ P03363] interacts with 10 human partners: {Q12830;P27540;P17676;Q02447;Q99814;P19484;Q00613;P08047;Q75626;Q9UJU5}

8551 [Cluster 778]GO:0048012+P biological\_process [name] hepatocyte growth factor receptor signaling pathway [def] "The series of molecular signals generated as a consequence of the hepatocyte growth factor binding to one of its physiological ligands." [GOC]

8552 Pathogen[ Q2Q067] interacts with 2 human partners: {O14786;P56945}

8553 Pathogen[ P0C214] interacts with 2 human partners: {O14786;P56945}

8554 Pathogen[ P03346] interacts with 2 human partners: {P56945;O14786}

8555 Pathogen[ Q85601] interacts with 2 human partners: {O14786;P56945}

8556 Pathogen[ P14079] interacts with 1 human partners: {Q8N307}

8557 Pathogen[ P03383] interacts with 1 human partners: {P56945}

8558 Pathogen[ P03410] interacts with 3 human partners: {O14786;Q8N307;P56945}

8559 Pathogen[ P14075] interacts with 1 human partners: {P56945}

8560 Pathogen[ P0C206] interacts with 2 human partners: {O14786;P56945}

8561 Pathogen[ P03363] interacts with 2 human partners: {O14786;P56945}

8562 [Cluster 779]GO:0034142+P biological\_process [name] toll-like receptor 4 signaling pathway [def] "Any series of molecular signals generated as a consequence of binding to toll-like receptor 4." [GOC]

8563 Pathogen[ Q2Q067] interacts with 33 human partners: {P01100;Q8IUC6;Q92985;Q15653;Q04206;Q9NYJ8;Q8N5C8;Q75582;Q14653;Q9Y6K9;Q13114;Q13233;P61088;Q96FA3;P19419;P19838;P15336;P25963;P0CG47;O14920;P45984;Q00653;P0CG48;O43318;P62987;Q13404;Q9HAT8;O15111;Q15759;Q16829;Q02078;Q15750;P62979}

8564 Pathogen[ P0C214] interacts with 37 human partners: {Q00653;O15111;Q9Y6K9;P19838;P15336;Q8IUC6;Q14164;P01100;Q96FA3;P19419;Q04206;Q9HAT8;Q13404;Q15653;O43318;Q02078;Q8N5C8;Q13233;Q92985;P0CG48;P25963;Q16829;Q14653;Q75582;P62987;Q15750;P05412;Q13114;Q15759;P0CG47;P45984;P16220;P62979;O14920;Q9NYJ8;P61088;P18846}

8565 Pathogen[ P03346] interacts with 38 human partners: {Q9Y6K9;P05412;P45984;Q02078;O15111;P16220;P15336;P62987;P25963;Q15653;P19419;P0CG48;Q04206;Q13114;Q96FA3;Q13404;Q8N5C8;P61088;Q9NYJ8;Q9HAT8;Q13233;Q75582;Q15750;Q14653;Q16829;P62979;Q8IUC6;Q15759;P0CG47;P45985;P19838;O14920;O43318;Q92985;P01100;Q14164;P18846;Q00653}

8566 Pathogen[ Q85601] interacts with 37 human partners: {Q02078;Q15750;Q9NYJ8;Q8IUC6;O15111;P19419;Q9HAT8;Q16829;P18846;P0CG48;Q15653;Q13114;Q96FA3;Q13404;Q8N5C8;P01100;Q14653;Q14164;Q9Y6K9;P16220;O14920;Q04206;P05412;Q92985;Q75582;P62979;Q15759;P0CG47;P45984;Q13233;P62987;Q00653;P15336;O43318;P61088;P19838;P25963}

8567 Pathogen[ P14079] interacts with 37 human partners: {Q96KP6;Q9HAT8;Q8N5C8;Q02078;P0CG48;Q06413;O43187;P53779;Q14653;P52564;Q75582;Q16829;Q8IUC6;Q92985;Q13404;Q14164;Q15750;P62979;P62987;Q96FA3;P45984;P45983;Q16644;Q15759;Q9Y6K9;P45985;P15336;Q9Y6Y9;Q13164;P05412;P0CG47;Q9Y239;P01100;Q99836;P19419;Q13114;Q15653}

8568 Pathogen[ P03383] interacts with 35 human partners: {Q75582;Q14653;P16220;Q9Y6K9;P62987;Q8IUC6;Q13233;Q00653;O14920;O15111;P19419;P18846;Q15653;O43318;Q8N5C8;P61088;Q92985;Q13404;Q15759;P25963;P01100;P62979;P0CG47;Q96FA3;Q04206;P45984;P0CG48;P15336;Q9NYJ8;P19838;Q13114;Q02078;Q9HAT8;Q15750;P05412}

8569 Pathogen[ P03410] interacts with 41 human partners: {Q04206;P19838;P0CG48;O14920;Q9Y239;P19419;O15111;Q15750;Q96FA3;Q75582;Q14653;O43187;Q15653;P61088;Q13233;P62979;P01100;P18846;O43318;Q16829;P45985;Q9NYJ8;Q96KP6;Q8N5C8;P16220;Q9HAT8;P05412;Q9Y6Y9;P45984;P62987;P53779;Q02078;Q8IUC6;Q00653;Q13404;Q9Y6K9;P25963;Q92985;P15336;P0CG47;Q13114}

8570 Pathogen[ P14075] interacts with 35 human partners: {O15111;Q04206;Q15750;P05412;Q15759;Q75582;P61088;P19419;P15336;Q15653;P25963;Q8N5C8;O14920;P0CG48;P62979;Q14653;O43318;Q9HAT8;Q96FA3;P62987;Q13114;Q02078;Q8IUC6;P01100;P0CG47;Q13404;P19838;Q00653;P16220;Q9Y6K9;Q92985;Q13233;P18846;P45984;Q9NYJ8}

8571 Pathogen[ P0C206] interacts with 38 human partners: {P0CG48;O14920;Q9Y6K9;Q13114;Q02078;P16220;Q8N5C8;Q75582;P45984;P05412;P25963;P19419;Q9HAT8;O43318;P15336;Q15653;P18846;Q16829;Q13233;P61088;P19838;Q14164;Q92985;P01100;Q04206;O15111;P62979;Q9NYJ8;P45985;P0CG47;Q8IUC6;Q96FA3;Q00653;Q15750;P62987;Q13404;Q15759;Q14653}

8572 Pathogen[ P03363] interacts with 29 human partners: {Q14653;Q92985;O14920;Q04206;P25963;O15111;Q9NYJ8;P16220;Q9Y6K9;P19419;O43318;Q15750;P61088;P15336;Q15653;Q16829;Q00653;Q96FA3;P18846;P62987;P19838;Q13114;P05412;Q13404;Q9HAT8;Q8N5C8;Q13233;P01100;Q02078}

8573 [Cluster 780]GO:0016574+P biological\_process [name] histone ubiquitination [def] "The modification of histones by addition of ubiquitin groups." [GOC  
8574 Pathogen[ Q2Q067] interacts with 8 human  
partners:{Q9HC52;Q96T88;Q15022;Q7Z6Z7;P61088;P35226;Q99496;Q06587}  
8575 Pathogen[ P0C214] interacts with 8 human  
partners:{P35226;Q15022;Q96T88;Q06587;Q99496;Q7Z6Z7;Q9HC52;P61088}  
8576 Pathogen[ P03346] interacts with 8 human  
partners:{P35226;Q9HC52;P61088;Q15022;Q99496;Q7Z6Z7;Q06587;Q96T88}  
8577 Pathogen[ Q85601] interacts with 8 human  
partners:{Q15022;Q96T88;Q99496;Q7Z6Z7;P35226;P61088;Q06587;Q9HC52}  
8578 Pathogen[ P14079] interacts with 5 human  
partners:{Q9HC52;Q99496;P35226;Q15022;Q06587}  
8579 Pathogen[ P03383] interacts with 6 human  
partners:{Q9HC52;Q06587;Q15022;P61088;Q99496;P35226}  
8580 Pathogen[ P03410] interacts with 6 human  
partners:{Q99496;P61088;Q06587;P35226;Q15022;Q9HC52}  
8581 Pathogen[ P14075] interacts with 6 human  
partners:{P61088;Q06587;Q9HC52;Q99496;P35226;Q15022}  
8582 Pathogen[ P0C206] interacts with 8 human  
partners:{Q9HC52;P35226;P61088;Q96T88;Q06587;Q15022;Q7Z6Z7;Q99496}  
8583 Pathogen[ P03363] interacts with 8 human  
partners:{Q15022;Q9HC52;Q99496;Q7Z6Z7;P61088;P35226;Q96T88;Q06587}  
8584 [Cluster 781]GO:0000320+P biological\_process [name] re-entry into mitotic cell cycle  
[def] "The resumption of the mitotic cell division cycle by cells that were in a  
quiescent or other non-dividing state." [GOC  
8585 Pathogen[ Q2Q067] interacts with 2 human partners:{P24385;P41002}  
8586 Pathogen[ P0C214] interacts with 2 human partners:{P41002;P24385}  
8587 Pathogen[ P03346] interacts with 2 human partners:{P24385;P41002}  
8588 Pathogen[ Q85601] interacts with 2 human partners:{P24385;P41002}  
8589 Pathogen[ P14079] interacts with 1 human partners:{P41002}  
8590 Pathogen[ P03383] interacts with 2 human partners:{P41002;P24385}  
8591 Pathogen[ P03410] interacts with 2 human partners:{P41002;P24385}  
8592 Pathogen[ P14075] interacts with 2 human partners:{P24385;P41002}  
8593 Pathogen[ P0C206] interacts with 2 human partners:{P41002;P24385}  
8594 Pathogen[ P03363] interacts with 2 human partners:{P41002;P24385}  
8595 [Cluster 782]GO:0035279+P biological\_process [name] mRNA cleavage involved in gene  
silencing by miRNA [def] "The process in which microRNAs (miRNAs) direct the cleavage  
of target mRNAs. Once incorporated into a RNA-induced silencing complex (RISC), a miRNA  
will typically direct cleavage by base pairing with near-perfect complementarity to the  
target mRNA. Many plant miRNAs downregulate gene expression through this mechanism."  
[GOC  
8596 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9UKV8;Q9HCE1}  
8597 Pathogen[ P0C214] interacts with 2 human partners:{Q9HCE1;Q9UKV8}  
8598 Pathogen[ P03346] interacts with 2 human partners:{Q9UKV8;Q9HCE1}  
8599 Pathogen[ Q85601] interacts with 2 human partners:{Q9HCE1;Q9UKV8}  
8600 Pathogen[ P14079] interacts with 2 human partners:{Q9UKV8;Q9HCE1}  
8601 Pathogen[ P03383] interacts with 2 human partners:{Q9UKV8;Q9HCE1}  
8602 Pathogen[ P03410] interacts with 2 human partners:{Q9UKV8;Q9HCE1}  
8603 Pathogen[ P14075] interacts with 2 human partners:{Q9HCE1;Q9UKV8}  
8604 Pathogen[ P0C206] interacts with 2 human partners:{Q9UKV8;Q9HCE1}  
8605 Pathogen[ P03363] interacts with 2 human partners:{Q9UKV8;Q9HCE1}  
8606 [Cluster 783]GO:0021985+P biological\_process [name] neurohypophysis development  
[def] "The progression of the neurohypophysis over time from its initial formation until  
its mature state. The neurohypophysis is the part of the pituitary gland that secretes  
hormones involved in blood pressure regulation." [GO\_REF  
8607 Pathogen[ Q2Q067] interacts with 1 human partners:{P20265}  
8608 Pathogen[ P0C214] interacts with 1 human partners:{P20265}  
8609 Pathogen[ P03346] interacts with 2 human partners:{P20265;Q5XKR4}  
8610 Pathogen[ Q85601] interacts with 1 human partners:{P20265}  
8611 Pathogen[ P14079] interacts with 1 human partners:{P20265}  
8612 Pathogen[ P03383] interacts with 1 human partners:{P20265}  
8613 Pathogen[ P03410] interacts with 1 human partners:{P20265}  
8614 Pathogen[ P14075] interacts with 1 human partners:{P20265}  
8615 Pathogen[ P0C206] interacts with 1 human partners:{P20265}  
8616 Pathogen[ P03363] interacts with 2 human partners:{P20265;Q5XKR4}  
8617 [Cluster 784]GO:0060428+P biological\_process [name] lung epithelium development  
[def] "The biological process whose specific outcome is the progression of the lung  
epithelium from an initial condition to its mature state. This process begins with the  
formation of lung epithelium and ends with the mature structure. The lung epithelium is  
the specialized epithelium that lines the inside of the lung." [GOC  
8618 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UJM3}  
8619 Pathogen[ P0C214] interacts with 1 human partners:{Q9UJM3}  
8620 Pathogen[ P03346] interacts with 1 human partners:{Q9UJM3}  
8621 Pathogen[ Q85601] interacts with 1 human partners:{Q9UJM3}  
8622 Pathogen[ P14079] interacts with 1 human partners:{Q9UJM3}  
8623 Pathogen[ P03383] interacts with 1 human partners:{Q9UJM3}



8624 Pathogen[ P03410] interacts with 1 human partners:{Q9UJM3}  
8625 Pathogen[ P14075] interacts with 1 human partners:{Q9UJM3}  
8626 Pathogen[ P0C206] interacts with 1 human partners:{Q9UJM3}  
8627 Pathogen[ P03363] interacts with 1 human partners:{Q9UJM3}  
8628 [Cluster 785]GO:0048856+P biological\_process [name] anatomical structure development [def] "The biological process whose specific outcome is the progression of an anatomical structure from an initial condition to its mature state. This process begins with the formation of the structure and ends with the mature structure, whatever form that may be including its natural destruction. An anatomical structure is any biological entity that occupies space and is distinguished from its surroundings. Anatomical structures can be macroscopic such as a carpel, or microscopic such as an acrosome." [GO\_REF  
8629 Pathogen[ Q2Q067] interacts with 2 human partners:{Q99502;P39019}  
8630 Pathogen[ P0C214] interacts with 3 human partners:{P32243;P39019;Q99502}  
8631 Pathogen[ P03346] interacts with 6 human partners:{Q9UIU6;Q99502;Q15475;P39019;P32243;Q9HBU1}  
8632 Pathogen[ Q85601] interacts with 3 human partners:{P39019;Q99502;P32243}  
8633 Pathogen[ P14079] interacts with 3 human partners:{Q99502;P39019;P32243}  
8634 Pathogen[ P03383] interacts with 2 human partners:{P39019;P32243}  
8635 Pathogen[ P03410] interacts with 3 human partners:{Q99502;P32243;P39019}  
8636 Pathogen[ P14075] interacts with 3 human partners:{Q99502;P39019;P32243}  
8637 Pathogen[ P0C206] interacts with 3 human partners:{P32243;P39019;Q99502}  
8638 Pathogen[ P03363] interacts with 3 human partners:{P32243;P39019;Q9HBU1}  
8639 [Cluster 786]GO:0048009+P biological\_process [name] insulin-like growth factor receptor signaling pathway [def] "The series of molecular signals generated as a consequence of the insulin-like growth factor receptor binding to one of its physiological ligands." [GOC  
8640 Pathogen[ Q2Q067] interacts with 2 human partners:{P31749;P27986}  
8641 Pathogen[ P0C214] interacts with 4 human partners:{O75420;Q6Y7W6;P27986;P31749}  
8642 Pathogen[ P03346] interacts with 3 human partners:{Q13322;P31749;P27986}  
8643 Pathogen[ Q85601] interacts with 4 human partners:{P31749;O75420;Q6Y7W6;P27986}  
8644 Pathogen[ P14079] interacts with 2 human partners:{Q6Y7W6;O75420}  
8645 Pathogen[ P03383] interacts with 2 human partners:{P27986;P31749}  
8646 Pathogen[ P03410] interacts with 4 human partners:{P27986;P31749;O75420;Q6Y7W6}  
8647 Pathogen[ P14075] interacts with 2 human partners:{P31749;P27986}  
8648 Pathogen[ P0C206] interacts with 4 human partners:{P31749;O75420;P27986;Q6Y7W6}  
8649 Pathogen[ P03363] interacts with 2 human partners:{P31749;P27986}  
8650 [Cluster 787]GO:0005981+P biological\_process [name] regulation of glycogen catabolic process [def] "Any process that modulates the frequency, rate or extent of the chemical reactions and pathways resulting in the breakdown of glycogen." [GOC  
8651 Pathogen[ Q2Q067] interacts with 3 human partners:{P62140;P62136;Q9UQK1}  
8652 Pathogen[ P0C214] interacts with 5 human partners:{P62140;O95685;P62136;Q9UQK1;Q9H7J1}  
8653 Pathogen[ P03346] interacts with 5 human partners:{P62136;Q9UQK1;O95685;Q9H7J1;P62140}  
8654 Pathogen[ Q85601] interacts with 3 human partners:{Q9UQK1;P62136;P62140}  
8655 Pathogen[ P14079] interacts with 5 human partners:{Q9H7J1;P62136;O95685;P62140;Q9UQK1}  
8656 Pathogen[ P03383] interacts with 4 human partners:{P62140;Q9UQK1;P62136;Q9H7J1}  
8657 Pathogen[ P03410] interacts with 5 human partners:{P62136;O95685;Q9H7J1;P62140;Q9UQK1}  
8658 Pathogen[ P14075] interacts with 5 human partners:{P62140;Q9UQK1;P62136;O95685;Q9H7J1}  
8659 Pathogen[ P0C206] interacts with 5 human partners:{Q9UQK1;P62140;O95685;Q9H7J1;P62136}  
8660 Pathogen[ P03363] interacts with 3 human partners:{P62136;P62140;Q9UQK1}  
8661 [Cluster 788]GO:0060041+P biological\_process [name] retina development in camera-type eye [def] "The process whose specific outcome is the progression of the retina over time, from its formation to the mature structure. The retina is the innermost layer or coating at the back of the eyeball, which is sensitive to light and in which the optic nerve terminates." [GOC  
8662 Pathogen[ Q2Q067] interacts with 9 human partners:{O75161;Q12837;Q99471;P12755;O15078;Q8TC05;P61244;Q15583;O43186}  
8663 Pathogen[ P0C214] interacts with 10 human partners:{O15078;O75161;P05937;P61244;O43186;Q8TC05;P35580;Q12837;P12755;Q99471}  
8664 Pathogen[ P03346] interacts with 15 human partners:{Q9HD90;Q99471;Q12837;Q15583;O43186;O43316;Q96KN7;P05937;Q8N8E2;O75161;Q8TC05;P61244;Q9P2D1;O15078;Q9UIW0}  
8665 Pathogen[ Q85601] interacts with 12 human partners:{O75161;O43316;Q9P2D1;Q8TC05;Q99471;Q15583;O15078;P12755;P61244;P35580;Q8N8E2;Q12837}  
8666 Pathogen[ P14079] interacts with 17 human partners:{P05937;O75161;P12755;Q15583;Q92902;Q9UPW5;Q12837;Q9P2D1;P56715;Q7Z3Z2;Q8TC05;O15078;Q99471;P61244;O15259;Q96KN7;Q8N8E2}  
8667 Pathogen[ P03383] interacts with 8 human partners:{Q8TC05;O15078;Q99471;Q12837;P35580;O43186;O75161;P61244}  
8668 Pathogen[ P03410] interacts with 19 human

8669 partners:{Q8N8E2;Q8TC05;Q9UPW5;P12755;O15259;Q92902;Q96KN7;O75161;Q7Z3Z2;P61244;Q15583;Q99471;Q9P2D1;P05937;O15078;P35580;Q9UBY8;Q12837;P56715}  
Pathogen[ P14075] interacts with 7 human

8670 partners:{Q8TC05;P61244;Q12837;O43186;O15078;O75161;Q99471}  
Pathogen[ P0C206] interacts with 16 human

8671 partners:{P56715;O75161;Q8TC05;Q9P2D1;Q8N8E2;Q99471;Q96KN7;P12755;Q12837;O15078;P61244;Q13422;Q9UPW5;P35580;O43316;Q15583}  
Pathogen[ P03363] interacts with 15 human

8672 partners:{Q9UIW0;Q8TC05;O75161;P56715;O15078;O43316;Q99471;P61244;Q92902;O43186;Q15583;O15259;Q12837;P05937;Q96KN7}  
[Cluster 789]GO:0048286+P biological\_process [name] lung alveolus development  
[def] "The process whose specific outcome is the progression of the alveolus over time, from its formation to the mature structure. The alveolus is a sac for holding air in the lungs\_ formed by the terminal dilation of air passageways." [GOC

8673 Pathogen[ Q2Q067] interacts with 3 human partners:{Q68CZ2;P20719;Q9UJM3}  
8674 Pathogen[ P0C214] interacts with 2 human partners:{Q9UJM3;Q68CZ2}  
8675 Pathogen[ P03346] interacts with 4 human partners:{Q68CZ2;P20719;O43680;Q9UJM3}  
8676 Pathogen[ Q85601] interacts with 2 human partners:{Q68CZ2;Q9UJM3}  
8677 Pathogen[ P14079] interacts with 2 human partners:{Q9UJM3;Q68CZ2}  
8678 Pathogen[ P03383] interacts with 1 human partners:{Q9UJM3}  
8679 Pathogen[ P03410] interacts with 2 human partners:{Q68CZ2;Q9UJM3}  
8680 Pathogen[ P14075] interacts with 1 human partners:{Q9UJM3}  
8681 Pathogen[ P0C206] interacts with 3 human partners:{Q9UJM3;P20719;Q68CZ2}  
8682 Pathogen[ P03363] interacts with 3 human partners:{P20719;Q68CZ2;Q9UJM3}

8683 [Cluster 790]GO:0031167+P biological\_process [name] rRNA methylation [def] "The posttranscriptional addition of methyl groups to specific residues in an rRNA molecule." [GOC

8684 Pathogen[ Q2Q067] interacts with 4 human partners:{Q9H5Q4;Q8WVM0;Q9UI43;Q9UNQ2}  
8685 Pathogen[ P0C214] interacts with 4 human partners:{Q9UNQ2;Q9UI43;Q8WVM0;Q9H5Q4}  
8686 Pathogen[ P03346] interacts with 4 human partners:{Q9UNQ2;Q9H5Q4;Q8WVM0;Q9UI43}  
8687 Pathogen[ Q85601] interacts with 4 human partners:{Q9UI43;Q9H5Q4;Q8WVM0;Q9UNQ2}  
8688 Pathogen[ P14079] interacts with 5 human  
partners:{Q9UI43;Q9UNQ2;Q96FB5;Q9H5Q4;Q8WVM0}

8689 Pathogen[ P03383] interacts with 4 human partners:{Q9UNQ2;Q9H5Q4;Q9UI43;Q8WVM0}  
8690 Pathogen[ P03410] interacts with 5 human  
partners:{Q9UNQ2;Q9H5Q4;Q96FB5;Q8WVM0;Q9UI43}

8691 Pathogen[ P14075] interacts with 4 human partners:{Q9H5Q4;Q9UI43;Q9UNQ2;Q8WVM0}  
8692 Pathogen[ P0C206] interacts with 4 human partners:{Q9UI43;Q8WVM0;Q9UNQ2;Q9H5Q4}  
8693 Pathogen[ P03363] interacts with 4 human partners:{Q9UNQ2;Q8WVM0;Q9UI43;Q9H5Q4}

8694 [Cluster 791]GO:0060913+P biological\_process [name] cardiac cell fate determination  
[def] "The process involved in cardiac cell fate commitment. Once determination has taken place, a cell becomes committed to differentiate down a particular pathway regardless of its environment." [GOC

8695 Pathogen[ Q2Q067] interacts with 1 human partners:{Q01860}  
8696 Pathogen[ P0C214] interacts with 1 human partners:{Q01860}  
8697 Pathogen[ P03346] interacts with 1 human partners:{Q01860}  
8698 Pathogen[ Q85601] interacts with 1 human partners:{Q01860}  
8699 Pathogen[ P14079] interacts with 1 human partners:{Q01860}  
8700 Pathogen[ P03383] interacts with 1 human partners:{Q01860}  
8701 Pathogen[ P03410] interacts with 1 human partners:{Q01860}  
8702 Pathogen[ P14075] interacts with 1 human partners:{Q01860}  
8703 Pathogen[ P0C206] interacts with 1 human partners:{Q01860}  
8704 Pathogen[ P03363] interacts with 1 human partners:{Q01860}

8705 [Cluster 792]GO:0019682+P biological\_process [name] glyceraldehyde-3-phosphate metabolic process [def] "The chemical reactions and pathways involving glyceraldehyde-3-phosphate, an important intermediate in glycolysis." [GOC

8706 Pathogen[ Q2Q067] interacts with 2 human partners:{P37837;P60174}  
8707 Pathogen[ P0C214] interacts with 2 human partners:{P37837;P60174}  
8708 Pathogen[ P03346] interacts with 2 human partners:{P60174;P37837}  
8709 Pathogen[ Q85601] interacts with 2 human partners:{P60174;P37837}  
8710 Pathogen[ P14079] interacts with 1 human partners:{P37837}  
8711 Pathogen[ P03383] interacts with 1 human partners:{P37837}  
8712 Pathogen[ P03410] interacts with 1 human partners:{P37837}  
8713 Pathogen[ P14075] interacts with 1 human partners:{P37837}  
8714 Pathogen[ P0C206] interacts with 2 human partners:{P60174;P37837}  
8715 Pathogen[ P03363] interacts with 1 human partners:{P37837}

8716 [Cluster 793]GO:0010225+P biological\_process [name] response to UV-C [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a UV-C radiation stimulus. UV-C radiation (UV-C light) spans the wavelengths 100 to 290 nm." [GOC

8717 Pathogen[ Q2Q067] interacts with 5 human  
partners:{Q9Y253;P25490;P20749;P05114;P28715}

8718 Pathogen[ P0C214] interacts with 5 human  
partners:{Q8IWE4;P28715;P20749;P05114;Q9Y253}

8719 Pathogen[ P03346] interacts with 7 human

8720 partners: {Q9Y253;P28715;P25490;P05114;Q8IWE4;P51587;P20749}  
Pathogen[ Q85601] interacts with 7 human

8721 partners: {P25490;P28715;Q8IWE4;P05114;Q9Y253;P20749;P51587}  
Pathogen[ P14079] interacts with 7 human

8722 partners: {P05114;P28715;P51587;P20749;Q9Y253;P25490;Q8IWE4}  
Pathogen[ P03383] interacts with 4 human partners: {Q9Y253;P20749;Q8IWE4;P05114}

8723 Pathogen[ P03410] interacts with 7 human

8724 partners: {P20749;Q8IWE4;P28715;P25490;Q9Y253;P51587;P05114}  
Pathogen[ P14075] interacts with 3 human partners: {Q9Y253;P20749;P05114}

8725 Pathogen[ P0C206] interacts with 7 human

8726 partners: {Q9Y253;P28715;P05114;P25490;P51587;Q8IWE4;P20749}  
Pathogen[ P03363] interacts with 4 human partners: {Q9Y253;P25490;P20749;P05114}

8727 [Cluster 794]GO:0008340+P biological\_process [name] determination of adult lifespan  
[def] "The control of viability and duration in the adult phase of the life-cycle." [GOC

8728 Pathogen[ Q2Q067] interacts with 4 human partners: {Q9BXH1;Q9NZI6;P28069;P28715}

8729 Pathogen[ P0C214] interacts with 5 human  
partners: {Q99807;Q9BXH1;P28715;P28069;Q9NZI6}

8730 Pathogen[ P03346] interacts with 4 human partners: {P28715;Q9NZI6;P28069;Q9BXH1}

8731 Pathogen[ Q85601] interacts with 4 human partners: {Q9BXH1;P28069;P28715;Q9NZI6}

8732 Pathogen[ P14079] interacts with 6 human  
partners: {Q99807;P28715;Q9BXH1;P28069;Q9NZI6;P52701}

8733 Pathogen[ P03383] interacts with 3 human partners: {P28069;Q9NZI6;Q9BXH1}

8734 Pathogen[ P03410] interacts with 6 human  
partners: {P28069;Q9BXH1;P28715;P52701;Q9NZI6;Q99807}

8735 Pathogen[ P14075] interacts with 3 human partners: {P28069;Q9BXH1;Q9NZI6}

8736 Pathogen[ P0C206] interacts with 6 human  
partners: {P28715;P52701;Q9BXH1;Q99807;Q9NZI6;P28069}

8737 Pathogen[ P03363] interacts with 3 human partners: {P28069;Q9NZI6;Q9BXH1}

8738 [Cluster 795]GO:0042069+P biological\_process [name] regulation of catecholamine  
metabolic process [def] "Any process that modulates the frequency, rate or extent of  
the chemical reactions and pathways involving catecholamines." [GOC

8739 Pathogen[ Q2Q067] interacts with 1 human partners: {Q6RSH7}

8740 Pathogen[ P0C214] interacts with 1 human partners: {Q6RSH7}

8741 Pathogen[ P03346] interacts with 1 human partners: {Q6RSH7}

8742 Pathogen[ Q85601] interacts with 1 human partners: {Q6RSH7}

8743 Pathogen[ P14079] interacts with 1 human partners: {Q6RSH7}

8744 Pathogen[ P03383] interacts with 1 human partners: {Q6RSH7}

8745 Pathogen[ P03410] interacts with 1 human partners: {Q6RSH7}

8746 Pathogen[ P14075] interacts with 1 human partners: {Q6RSH7}

8747 Pathogen[ P0C206] interacts with 1 human partners: {Q6RSH7}

8748 Pathogen[ P03363] interacts with 1 human partners: {Q6RSH7}

8749 [Cluster 796]GO:0031424+P biological\_process [name] keratinization [def] "The  
process in which the cytoplasm of the outermost cells of the vertebrate epidermis is  
replaced by keratin. Keratinization occurs in the stratum corneum, feathers, hair,  
claws, nails, hooves, and horns." [GOC

8750 Pathogen[ Q2Q067] interacts with 15 human  
partners: {P35908;P35321;Q9H0F6;O60437;P23490;Q5T752;P22528;Q8NEY8;Q04695;Q9UBC9;P225  
31;Q674X7;Q96PI1;P60953;P07476}

8751 Pathogen[ P0C214] interacts with 15 human  
partners: {P35321;Q5T752;P07476;P22735;Q9H0F6;P60953;O60437;P35908;P23490;Q674X7;Q046  
95;P22531;Q8NEY8;Q9UBC9;Q96PI1}

8752 Pathogen[ P03346] interacts with 39 human  
partners: {Q5T751;O60437;P35321;P35325;Q5TA76;O14633;Q5TA79;P35326;Q5T7P2;P07476;Q5T7  
53;Q9BYE4;P60953;Q9H0F6;Q9UBC9;Q9BYD5;P35908;Q5TA82;Q9BYE3;Q96PI1;Q04695;Q96RM1;P225  
31;Q5T752;A0A183;P23490;P22532;Q5T5B0;Q5TCM9;Q5T7P3;Q8NEY8;Q5T754;Q5TA78;P22528;Q5TA  
81;Q674X7;P22735;Q5T5A8;Q5TA77}

8753 Pathogen[ Q85601] interacts with 11 human  
partners: {P35321;O60437;Q9H0F6;Q04695;P22531;P60953;Q8NEY8;P35908;Q674X7;P23490;Q9UB  
C9}

8754 Pathogen[ P14079] interacts with 39 human  
partners: {A0A183;P22528;P22531;P35326;P35908;Q5T751;P22735;P07476;Q9BYE4;Q5TA79;O604  
37;Q9BYE3;Q5T7P2;Q96RM1;Q5TA82;Q04695;Q9BYD5;Q5T753;Q5T752;O14633;Q5TCM9;Q5TA81;P353  
21;P35325;P23490;Q5T754;Q5T7P3;Q5TA77;Q92817;Q9UBC9;P22532;Q9H0F6;Q5TA76;Q5T5A8;Q8NE  
Y8;Q96PI1;Q674X7;Q5TA78;Q5T5B0}

8755 Pathogen[ P03383] interacts with 19 human  
partners: {P23490;Q9BYE4;P35321;Q9H0F6;Q5T752;P60953;Q96PI1;Q9UBC9;Q96RM1;Q04695;P225  
31;P07476;P22532;P22528;P35908;O14633;O60437;P35325;Q8NEY8}

8756 Pathogen[ P03410] interacts with 40 human  
partners: {Q5TA78;P23490;Q5T7P2;P22531;Q9UBC9;P35325;P22528;Q9BYE4;Q5T5A8;Q5T754;Q8NE  
Y8;P35321;Q5T7P3;Q5T751;Q5TA79;Q5TA81;P35908;Q5TA82;O14633;Q674X7;Q9BYE3;Q96PI1;Q96R  
M1;Q04695;P60953;Q5TCM9;A0A183;Q5TA77;P22532;P35326;Q5TA76;Q5T5B0;Q92817;Q5T753;O604  
37;Q9BYD5;Q5T752;Q9H0F6;P07476;P22735}

8757 Pathogen[ P14075] interacts with 35 human  
partners: {P60953;Q96PI1;Q5T7P2;Q5TA82;P35321;P22532;Q9UBC9;P35325;Q5T5A8;Q5T753;P234  
90;Q04695;P35908;Q5T752;Q96RM1;Q5T751;P22531;Q5TCM9;Q5TA79;Q8NEY8;Q5TA76;Q5TA81;P225  
28;Q9BYE4;Q9BYE3;Q5TA78;Q5TA77;O60437;Q5T7P3;P07476;Q5T5B0;O14633;Q9H0F6;A0A183;Q5T7

54}

8758 Pathogen[ P0C206] interacts with 39 human partners: {Q9BYE4;Q5T754;Q9UBC9;Q9BYE3;P35325;Q96PI1;Q5T5A8;P22531;Q5T5B0;Q5T753;Q96RM1;Q9BYD5;P35326;O14633;Q5TA76;Q5TA82;O60437;P23490;Q5T7P3;Q5T752;P35321;Q5TA79;Q5TA77;A0A183;P60953;Q9H0F6;P22532;Q5T751;Q5TA81;Q674X7;Q5TA78;Q5TCM9;P22735;Q8NEY8;P07476;P35908;Q04695;Q5T7P2;P22528}

8759 Pathogen[ P03363] interacts with 23 human partners: {P22531;P22532;P35321;Q9BYE4;O60437;P23490;Q9UBC9;P35326;P35908;Q8NEY8;Q96RM1;Q5T752;Q9BYD5;P35325;P22528;O14633;Q674X7;P07476;Q96PI1;Q9H0F6;P60953;Q92817;Q04695}

8760 [Cluster 797]GO:0070914+P biological\_process [name] UV-damage excision repair [def] "A DNA repair process that is initiated by an endonuclease that introduces a single-strand incision immediately 5' of a UV-induced damage site. UV-damage excision repair acts on both cyclobutane pyrimidine dimers (CPDs) and pyrimidine-pyrimidone 6-4 photoproducts (6-4PPs)." [GOC

8761 Pathogen[ Q2Q067] interacts with 2 human partners: {Q9ULG1;Q9H9F9}

8762 Pathogen[ P0C214] interacts with 2 human partners: {Q9H9F9;Q9ULG1}

8763 Pathogen[ P03346] interacts with 2 human partners: {Q9H9F9;Q9ULG1}

8764 Pathogen[ Q85601] interacts with 2 human partners: {Q9H9F9;Q9ULG1}

8765 Pathogen[ P14079] interacts with 2 human partners: {Q9ULG1;Q9H9F9}

8766 Pathogen[ P03383] interacts with 1 human partners: {Q9H9F9}

8767 Pathogen[ P03410] interacts with 2 human partners: {Q9ULG1;Q9H9F9}

8768 Pathogen[ P14075] interacts with 1 human partners: {Q9H9F9}

8769 Pathogen[ P0C206] interacts with 2 human partners: {Q9ULG1;Q9H9F9}

8770 Pathogen[ P03363] interacts with 2 human partners: {Q9ULG1;Q9H9F9}

8771 [Cluster 798]GO:0048854+P biological\_process [name] brain morphogenesis [def] "The process in which the anatomical structures of the brain are generated and organized. The brain is one of the two components of the central nervous system and is the center of thought and emotion. It is responsible for the coordination and control of bodily activities and the interpretation of information from the senses (sight, hearing, smell, etc.)." [GOC

8772 Pathogen[ Q2Q067] interacts with 1 human partners: {O95613}

8773 Pathogen[ P0C214] interacts with 1 human partners: {O95613}

8774 Pathogen[ P03346] interacts with 1 human partners: {O95613}

8775 Pathogen[ Q85601] interacts with 1 human partners: {O95613}

8776 Pathogen[ P14079] interacts with 1 human partners: {O95613}

8777 Pathogen[ P03383] interacts with 1 human partners: {O95613}

8778 Pathogen[ P03410] interacts with 1 human partners: {O95613}

8779 Pathogen[ P14075] interacts with 1 human partners: {O95613}

8780 Pathogen[ P0C206] interacts with 1 human partners: {O95613}

8781 Pathogen[ P03363] interacts with 1 human partners: {O95613}

8782 [Cluster 799]GO:0002467+P biological\_process [name] germinal center formation [def] "The process in which germinal centers form. A germinal center is a specialized microenvironment formed when activated B cells enter lymphoid follicles. Germinal centers are the foci for B cell proliferation and somatic hypermutation." [GO\_REF

8783 Pathogen[ Q2Q067] interacts with 3 human partners: {P41182;P20749;Q00653}

8784 Pathogen[ P0C214] interacts with 3 human partners: {Q00653;P20749;P41182}

8785 Pathogen[ P03346] interacts with 4 human partners: {P41182;P20749;Q70J99;Q00653}

8786 Pathogen[ Q85601] interacts with 3 human partners: {Q00653;P41182;P20749}

8787 Pathogen[ P14079] interacts with 3 human partners: {Q06413;P41182;P20749}

8788 Pathogen[ P03383] interacts with 2 human partners: {Q00653;P20749}

8789 Pathogen[ P03410] interacts with 4 human partners: {P20749;Q70J99;P41182;Q00653}

8790 Pathogen[ P14075] interacts with 2 human partners: {Q00653;P20749}

8791 Pathogen[ P0C206] interacts with 3 human partners: {P41182;P20749;Q00653}

8792 Pathogen[ P03363] interacts with 2 human partners: {P20749;Q00653}

8793 [Cluster 800]GO:0045990+P biological\_process [name] carbon catabolite regulation of transcription [def] "A transcription regulation process in which the presence of one carbon source leads to the modulation of the frequency, rate, or extent of transcription of specific genes involved in the metabolism of other carbon sources." [GOC

8794 Pathogen[ Q2Q067] interacts with 1 human partners: {P22415}

8795 Pathogen[ P0C214] interacts with 1 human partners: {P22415}

8796 Pathogen[ P03346] interacts with 1 human partners: {P22415}

8797 Pathogen[ Q85601] interacts with 1 human partners: {P22415}

8798 Pathogen[ P14079] interacts with 1 human partners: {P22415}

8799 Pathogen[ P03383] interacts with 1 human partners: {P22415}

8800 Pathogen[ P03410] interacts with 1 human partners: {P22415}

8801 Pathogen[ P14075] interacts with 1 human partners: {P22415}

8802 Pathogen[ P0C206] interacts with 1 human partners: {P22415}

8803 Pathogen[ P03363] interacts with 1 human partners: {P22415}

8804 [Cluster 801]GO:0018076+P biological\_process [name] N-terminal peptidyl-lysine acetylation [def] "The acetylation of the N-terminal lysine of proteins." [GOC

8805 Pathogen[ Q2Q067] interacts with 2 human partners: {Q92831;Q92793}

8806 Pathogen[ P0C214] interacts with 2 human partners: {Q92793;Q92831}

8807 Pathogen[ P03346] interacts with 2 human partners: {Q92831;Q92793}

8808 Pathogen[ Q85601] interacts with 2 human partners: {Q92831;Q92793}

8809 Pathogen[ P14079] interacts with 1 human partners: {Q92793}

8810 Pathogen[ P03383] interacts with 2 human partners:{Q92831;Q92793}

8811 Pathogen[ P03410] interacts with 2 human partners:{Q92831;Q92793}

8812 Pathogen[ P14075] interacts with 2 human partners:{Q92831;Q92793}

8813 Pathogen[ P0C206] interacts with 2 human partners:{Q92831;Q92793}

8814 Pathogen[ P03363] interacts with 2 human partners:{Q92831;Q92793}

8815 [Cluster 802]GO:0008643+P biological\_process [name] carbohydrate transport [def] "The directed movement of carbohydrate into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore. Carbohydrates are any of a group of organic compounds based of the general formula C<sub>x</sub>(H<sub>2</sub>O)<sub>y</sub>." [GOC

8816 Pathogen[ Q2Q067] interacts with 4 human partners:{P31749;P11166;Q15121;P14672}

8817 Pathogen[ P0C214] interacts with 5 human partners:{Q15121;P11166;P11168;P14672;P31749}

8818 Pathogen[ P03346] interacts with 4 human partners:{P31749;Q15121;P11166;P14672}

8819 Pathogen[ Q85601] interacts with 5 human partners:{P11168;P31749;Q15121;P11166;P14672}

8820 Pathogen[ P14079] interacts with 6 human partners:{P31751;Q96G79;P14672;P11166;Q15121;Q96AA3}

8821 Pathogen[ P03383] interacts with 6 human partners:{P31749;Q15121;P11168;P11169;P14672;P22732}

8822 Pathogen[ P03410] interacts with 7 human partners:{P22732;Q15121;Q9BRV3;P11166;P11168;P31749;Q96G79}

8823 Pathogen[ P14075] interacts with 6 human partners:{P11169;P22732;P31749;P11168;Q15121;P14672}

8824 Pathogen[ P0C206] interacts with 5 human partners:{P31749;Q15121;P11166;P11168;P14672}

8825 Pathogen[ P03363] interacts with 4 human partners:{Q15121;P31749;P14672;P11166}

8826 [Cluster 803]GO:0010956+P biological\_process [name] negative regulation of calcidiol 1-monooxygenase activity [def] "Any process that decreases the rate, frequency or extent of calcidiol 1-monooxygenase activity. Calcidiol 1-monooxygenase activity is the catalysis of the reaction

8827 Pathogen[ Q2Q067] interacts with 2 human partners:{Q99684;P19838}

8828 Pathogen[ P0C214] interacts with 2 human partners:{P19838;Q99684}

8829 Pathogen[ P03346] interacts with 2 human partners:{Q99684;P19838}

8830 Pathogen[ Q85601] interacts with 2 human partners:{Q99684;P19838}

8831 Pathogen[ P14079] interacts with 1 human partners:{Q99684}

8832 Pathogen[ P03383] interacts with 2 human partners:{Q99684;P19838}

8833 Pathogen[ P03410] interacts with 2 human partners:{P19838;Q99684}

8834 Pathogen[ P14075] interacts with 2 human partners:{Q99684;P19838}

8835 Pathogen[ P0C206] interacts with 2 human partners:{P19838;Q99684}

8836 Pathogen[ P03363] interacts with 2 human partners:{Q99684;P19838}

8837 [Cluster 804]GO:0009303+P biological\_process [name] rRNA transcription [def] "The synthesis of ribosomal RNA (rRNA), any RNA that forms part of the ribosomal structure, from a DNA template." [GOC

8838 Pathogen[ Q2Q067] interacts with 10 human partners:{Q95602;Q92664;Q9GZS1;Q9H9Y6;O75607;Q92994;Q12789;P42771;O15446;Q9NRC8}

8839 Pathogen[ P0C214] interacts with 11 human partners:{Q92664;Q9H9Y6;O15446;O75607;Q12789;Q9GZS1;Q92994;P42771;Q95602;Q9NRC8;Q9BYG3}

8840 Pathogen[ P03346] interacts with 11 human partners:{Q9H9Y6;P42771;Q9BYG3;Q92994;O15446;Q95602;O75607;Q12789;Q92664;Q9NRC8;Q9GZS1}

8841 Pathogen[ Q85601] interacts with 10 human partners:{Q9NRC8;Q92664;Q95602;Q92994;Q9GZS1;O75607;Q9H9Y6;P42771;O15446;Q12789}

8842 Pathogen[ P14079] interacts with 11 human partners:{Q92664;Q92994;O15446;Q9GZS1;Q12789;Q9BYG3;O75607;Q95602;Q9NRC8;Q9H9Y6;P42771}

8843 Pathogen[ P03383] interacts with 9 human partners:{Q95602;Q9H9Y6;Q9GZS1;O75607;Q92994;P42771;Q12789;O15446;Q9NRC8}

8844 Pathogen[ P03410] interacts with 11 human partners:{P42771;Q92994;Q95602;Q9BYG3;Q9GZS1;Q12789;Q92664;O15446;Q9NRC8;Q9H9Y6;O75607}

8845 Pathogen[ P14075] interacts with 9 human partners:{Q12789;Q9GZS1;O75607;P42771;Q92994;Q9H9Y6;Q95602;Q9NRC8;O15446}

8846 Pathogen[ P0C206] interacts with 11 human partners:{Q9BYG3;Q95602;O75607;Q92664;P42771;O15446;Q9NRC8;Q9GZS1;Q92994;Q9H9Y6;Q12789}

8847 Pathogen[ P03363] interacts with 10 human partners:{Q9H9Y6;O75607;Q95602;Q9GZS1;O15446;Q92664;Q9BYG3;Q12789;Q9NRC8;P42771}

8848 [Cluster 805]GO:0006913+P biological\_process [name] nucleocytoplasmic transport [def] "The directed movement of molecules between the nucleus and the cytoplasm." [GOC

8849 Pathogen[ Q2Q067] interacts with 22 human partners:{P52948;P39687;O75694;P62826;Q01105;Q6NXT1;Q8TF68;P06748;Q7Z3B4;Q8NDT2;P63241;Q9BQG0;Q99966;Q96IZ7;Q9BVL2;Q9HAP2;Q9NRG9;P37198;Q92621;Q9H0G5;Q8NEZ5;Q9H1J1}

8850 Pathogen[ P0C214] interacts with 22 human partners:{P06748;Q9BQG0;O75694;P63241;Q01105;Q96IZ7;Q8TF68;Q99966;P37198;Q9NRG9;Q9UH92;Q9H0G5;Q6NXT1;P62826;Q8NDT2;Q9BVL2;P39687;Q7Z3B4;P52948;Q92621;Q9HAP2;Q9H1J1}

8851 Pathogen[ P03346] interacts with 23 human partners: {Q99966;Q9BQG0;P06748;O75694;Q8NEZ5;Q9NRG9;Q01105;Q9BVL2;P63241;P37198;P62826;Q8TF68;Q9H0G5;Q92621;Q8NDT2;Q9HAP2;P39687;Q9UH92;Q96IZ7;Q6NXT1;Q7Z3B4;Q9H1J1;P52948}

8852 Pathogen[ Q85601] interacts with 22 human partners: {Q9BQG0;P39687;Q01105;Q99966;Q9NRG9;P62826;Q6NXT1;P63241;O75694;Q9UH92;Q9H0G5;Q8NDT2;Q92621;P52948;Q9HAP2;P06748;Q8TF68;Q96IZ7;Q9BVL2;Q7Z3B4;Q8NEZ5;Q9H1J1}

8853 Pathogen[ P14079] interacts with 23 human partners: {Q01105;Q9H1J1;Q92621;Q99966;Q9HAP2;Q8TF68;Q9BVL2;Q6NXT1;Q9BQG0;Q96IZ7;P37198;P06748;Q9H0G5;Q9UH92;P63241;Q8NEZ5;Q7Z3B4;P62826;Q9NRG9;O75694;Q8NDT2;P39687;P52948}

8854 Pathogen[ P03383] interacts with 20 human partners: {Q9BVL2;Q9BQG0;Q92621;Q9UH92;Q01105;P06748;Q96IZ7;P52948;P63241;P62826;P39687;Q9NRG9;Q8NDT2;Q9HAP2;P37198;Q9H0G5;Q8NEZ5;Q7Z3B4;O75694;Q9H1J1}

8855 Pathogen[ P03410] interacts with 22 human partners: {Q7Z3B4;Q8TF68;Q6NXT1;Q9H0G5;P52948;O75694;P39687;Q01105;P06748;Q96IZ7;Q9H1J1;P62826;Q8NEZ5;Q8NDT2;Q9BQG0;Q9HAP2;P63241;Q9UH92;Q9NRG9;Q9BVL2;Q92621;Q99966}

8856 Pathogen[ P14075] interacts with 20 human partners: {Q9HAP2;Q96IZ7;Q9UH92;P39687;P63241;Q01105;Q92621;Q9BQG0;P37198;P62826;Q8NEZ5;P06748;Q8NDT2;Q9BVL2;Q9H0G5;O75694;Q9NRG9;Q7Z3B4;P52948;Q9H1J1}

8857 Pathogen[ POC206] interacts with 21 human partners: {Q6NXT1;Q92621;P39687;Q9UH92;Q9NRG9;Q7Z3B4;P62826;Q9H0G5;Q9BQG0;O75694;Q9HAP2;Q96IZ7;P63241;Q99966;P06748;Q8TF68;Q8NEZ5;Q01105;Q9BVL2;Q8NDT2;Q9H1J1}

8858 Pathogen[ P03363] interacts with 22 human partners: {Q7Z3B4;Q96IZ7;Q9UH92;Q8NEZ5;Q9H0G5;Q6NXT1;Q9BQG0;Q9HAP2;P06748;P39687;Q9NRG9;Q9BVL2;Q8TF68;O75694;P63241;P52948;Q01105;P37198;P62826;Q92621;Q9H1J1;Q8NDT2}

8859 [Cluster 806]GO:0001757+P biological\_process [name] somite specification [def] "The process in which individual somites establish identity during embryogenesis." [GOC

8860 Pathogen[ Q2Q067] interacts with 3 human partners: {Q0D2K3;P50221;P50222}

8861 Pathogen[ POC214] interacts with 3 human partners: {P50222;Q0D2K3;P50221}

8862 Pathogen[ P03346] interacts with 3 human partners: {P50221;P50222;Q0D2K3}

8863 Pathogen[ Q85601] interacts with 3 human partners: {P50222;Q0D2K3;P50221}

8864 Pathogen[ P14079] interacts with 3 human partners: {Q0D2K3;P50222;P50221}

8865 Pathogen[ P03383] interacts with 3 human partners: {Q0D2K3;P50222;P50221}

8866 Pathogen[ P03410] interacts with 3 human partners: {P50222;P50221;Q0D2K3}

8867 Pathogen[ P14075] interacts with 3 human partners: {Q0D2K3;P50221;P50222}

8868 Pathogen[ POC206] interacts with 3 human partners: {P50221;Q0D2K3;P50222}

8869 Pathogen[ P03363] interacts with 3 human partners: {Q0D2K3;P50221;P50222}

8870 [Cluster 807]GO:0055003+P biological\_process [name] cardiac myofibril assembly [def] "The process whose specific outcome is the progression of the cardiac myofibril over time, from its formation to the mature structure. A cardiac myofibril is a myofibril specific to cardiac muscle cells." [GOC

8871 Pathogen[ Q2Q067] interacts with 1 human partners: {P11831}

8872 Pathogen[ POC214] interacts with 2 human partners: {P11831;P35580}

8873 Pathogen[ P03346] interacts with 2 human partners: {P11831;P10916}

8874 Pathogen[ Q85601] interacts with 2 human partners: {P11831;P35580}

8875 Pathogen[ P14079] interacts with 3 human partners: {P10916;P68032;O15273}

8876 Pathogen[ P03383] interacts with 2 human partners: {P11831;P35580}

8877 Pathogen[ P03410] interacts with 4 human partners: {P11831;P10916;O15273;P35580}

8878 Pathogen[ P14075] interacts with 1 human partners: {P11831}

8879 Pathogen[ POC206] interacts with 3 human partners: {P50461;P11831;P35580}

8880 Pathogen[ P03363] interacts with 2 human partners: {P11831;P10916}

8881 [Cluster 808]GO:0001732+P biological\_process [name] formation of translation initiation complex [def] "Joining of the large subunit, with release of IF2/eIF2 and IF3/eIF3. This leaves the functional ribosome at the AUG, with the methionyl/formyl-methionyl-tRNA positioned at the P site." [GOC

8882 Pathogen[ Q2Q067] interacts with 2 human partners: {Q14152;O15371}

8883 Pathogen[ POC214] interacts with 2 human partners: {Q14152;O15371}

8884 Pathogen[ P03346] interacts with 2 human partners: {Q14152;O15371}

8885 Pathogen[ Q85601] interacts with 2 human partners: {O15371;Q14152}

8886 Pathogen[ P14079] interacts with 2 human partners: {O15371;Q14152}

8887 Pathogen[ P03383] interacts with 2 human partners: {O15371;Q14152}

8888 Pathogen[ P03410] interacts with 2 human partners: {Q14152;O15371}

8889 Pathogen[ P14075] interacts with 2 human partners: {O15371;Q14152}

8890 Pathogen[ POC206] interacts with 2 human partners: {Q14152;O15371}

8891 Pathogen[ P03363] interacts with 2 human partners: {O15371;Q14152}

8892 [Cluster 809]GO:0046627+P biological\_process [name] negative regulation of insulin receptor signaling pathway [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of insulin receptor signaling." [GOC

8893 Pathogen[ Q2Q067] interacts with 3 human partners: {Q14678;Q04206;Q7Z2X4}

8894 Pathogen[ POC214] interacts with 4 human partners: {Q14678;Q04206;Q7Z2X4;O15524}

8895 Pathogen[ P03346] interacts with 5 human partners: {O15524;Q14678;Q13322;Q04206;Q7Z2X4}

8896 Pathogen[ Q85601] interacts with 3 human partners: {Q7Z2X4;Q04206;Q14678}

8897 Pathogen[ P14079] interacts with 2 human partners: {Q7Z2X4;Q14678}

8898 Pathogen[ P03383] interacts with 2 human partners: {Q14678;Q04206}

8899 Pathogen[ P03410] interacts with 3 human partners:{Q04206;Q7Z2X4;Q14678}

8900 Pathogen[ P14075] interacts with 2 human partners:{Q04206;Q14678}

8901 Pathogen[ P0C206] interacts with 4 human partners:{Q7Z2X4;Q14678;O15524;Q04206}

8902 Pathogen[ P03363] interacts with 3 human partners:{Q04206;O15524;Q14678}

8903 [Cluster 810]GO:0048699+P biological\_process [name] generation of neurons [def] "The process in which nerve cells are generated. This includes the production of neuroblasts and their differentiation into neurons." [GOC

8904 Pathogen[ Q2Q067] interacts with 2 human partners:{P36402;Q00534}

8905 Pathogen[ P0C214] interacts with 2 human partners:{Q00534;P36402}

8906 Pathogen[ P03346] interacts with 7 human partners:{Q7RTS3;P36402;Q9UIU6;P17542;Q9HCS4;Q15475;Q00534}

8907 Pathogen[ Q85601] interacts with 3 human partners:{P36402;Q00534;Q9HCS4}

8908 Pathogen[ P14079] interacts with 2 human partners:{P36402;P10636}

8909 Pathogen[ P03383] interacts with 2 human partners:{Q00534;P36402}

8910 Pathogen[ P03410] interacts with 4 human partners:{Q00534;P36402;P10636;Q9HCS4}

8911 Pathogen[ P14075] interacts with 2 human partners:{Q00534;P36402}

8912 Pathogen[ P0C206] interacts with 4 human partners:{Q9HCS4;P10636;P36402;Q00534}

8913 Pathogen[ P03363] interacts with 4 human partners:{P36402;Q7RTS3;Q9HCS4;Q00534}

8914 [Cluster 811]GO:0045616+P biological\_process [name] regulation of keratinocyte differentiation [def] "Any process that modulates the frequency, rate or extent of keratinocyte differentiation." [GOC

8915 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9NSB2;O76013;Q9UJM3}

8916 Pathogen[ P0C214] interacts with 3 human partners:{O76013;Q9NSB2;Q9UJM3}

8917 Pathogen[ P03346] interacts with 3 human partners:{Q9NSB2;O76013;Q9UJM3}

8918 Pathogen[ Q85601] interacts with 3 human partners:{O76013;Q9UJM3;Q9NSB2}

8919 Pathogen[ P14079] interacts with 3 human partners:{Q9UJM3;O76013;Q9NSB2}

8920 Pathogen[ P03383] interacts with 3 human partners:{Q9NSB2;Q9UJM3;O76013}

8921 Pathogen[ P03410] interacts with 3 human partners:{O76013;Q9NSB2;Q9UJM3}

8922 Pathogen[ P14075] interacts with 3 human partners:{Q9NSB2;O76013;Q9UJM3}

8923 Pathogen[ P0C206] interacts with 3 human partners:{Q9NSB2;O76013;Q9UJM3}

8924 Pathogen[ P03363] interacts with 3 human partners:{O76013;Q9NSB2;Q9UJM3}

8925 [Cluster 812]GO:0007612+P biological\_process [name] learning [def] "Any process in an organism in which a relatively long-lasting adaptive behavioral change occurs as the result of experience." [ISBN

8926 Pathogen[ Q2Q067] interacts with 4 human partners:{Q9UQB3;P78352;Q9NRG9;P15407}

8927 Pathogen[ P0C214] interacts with 5 human partners:{P15407;P78352;Q9UQB3;Q9NRG9;P05412}

8928 Pathogen[ P03346] interacts with 5 human partners:{P05412;P78352;Q9NRG9;Q9UQB3;P15407}

8929 Pathogen[ Q85601] interacts with 5 human partners:{Q9NRG9;P15407;Q9UQB3;P05412;P78352}

8930 Pathogen[ P14079] interacts with 5 human partners:{P16298;Q9UQB3;P15407;P05412;Q9NRG9}

8931 Pathogen[ P03383] interacts with 5 human partners:{Q9UQB3;P15407;Q9NRG9;P78352;P05412}

8932 Pathogen[ P03410] interacts with 5 human partners:{P05412;Q9UQB3;P15407;P78352;Q9NRG9}

8933 Pathogen[ P14075] interacts with 5 human partners:{P05412;Q9UQB3;P78352;P15407;Q9NRG9}

8934 Pathogen[ P0C206] interacts with 5 human partners:{P78352;Q9NRG9;P15407;P05412;Q9UQB3}

8935 Pathogen[ P03363] interacts with 5 human partners:{P78352;Q9NRG9;P15407;P05412;Q9UQB3}

8936 [Cluster 813]GO:0051365+P biological\_process [name] cellular response to potassium ion starvation [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of deprivation of potassium ions." [GOC

8937 Pathogen[ Q2Q067] interacts with 1 human partners:{O00198}

8938 Pathogen[ P0C214] interacts with 2 human partners:{O00198;P05412}

8939 Pathogen[ P03346] interacts with 2 human partners:{P05412;O00198}

8940 Pathogen[ Q85601] interacts with 2 human partners:{O00198;P05412}

8941 Pathogen[ P14079] interacts with 2 human partners:{O00198;P05412}

8942 Pathogen[ P03383] interacts with 2 human partners:{O00198;P05412}

8943 Pathogen[ P03410] interacts with 2 human partners:{O00198;P05412}

8944 Pathogen[ P14075] interacts with 2 human partners:{P05412;O00198}

8945 Pathogen[ P0C206] interacts with 2 human partners:{P05412;O00198}

8946 Pathogen[ P03363] interacts with 2 human partners:{O00198;P05412}

8947 [Cluster 814]GO:0032355+P biological\_process [name] response to estradiol stimulus [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of stimulus by estradiol, a C18 steroid hormone hydroxylated at C3 and C17 that acts as a potent estrogen." [GOC

8948 Pathogen[ Q2Q067] interacts with 21 human partners:{Q9HBZ2;P55957;Q13033;P40763;P14921;Q16656;P30279;P02511;Q14790;P27797;O14508;P55212;P24864;P29474;P35869;O15527;P27986;P06132;Q9H3M7;P08397;Q9UBS8}

8949 Pathogen[ P0C214] interacts with 23 human

partners:{P06132;P29474;P35869;P14921;P02511;Q16656;P55212;Q9H3M7;Q13033;P55957;Q9HBZ2;P08397;P09104;Q9UBS8;O14508;P24864;P30279;P27797;P40763;O15527;O15524;P27986;Q14790}

8950 Pathogen[ P03346] interacts with 25 human partners:{O15524;Q15788;P30279;P29474;Q16656;P55957;P24864;P55212;O14508;P14921;P02511;Q13033;P51587;P06132;Q9HBZ2;Q9UBS8;P27797;Q14790;Q13029;P35869;O15527;P40763;Q9H3M7;O14965;P27986}

8951 Pathogen[ Q85601] interacts with 23 human partners:{O15527;P14921;Q16656;Q14790;P40763;P27797;O14508;P27986;O14965;P02511;P30279;P55957;P06132;Q13033;Q9HBZ2;P29474;Q9UBS8;P08397;P35869;P55212;Q9H3M7;P51587;P24864}

8952 Pathogen[ P14079] interacts with 19 human partners:{P04083;P35869;P24864;P02511;Q13033;Q16656;P51587;O15527;P55212;P06132;Q14790;P08397;Q15788;O14508;Q9UBS8;Q9H3M7;Q9HBZ2;O14965;P55957}

8953 Pathogen[ P03383] interacts with 18 human partners:{P27986;P29474;P55212;P14921;Q16656;O15527;P55957;Q9UBS8;P02511;P30279;P06132;O14965;Q9H3M7;P08397;Q13033;P24864;P35869;P27797}

8954 Pathogen[ P03410] interacts with 21 human partners:{P27986;P08397;P30279;Q9H3M7;P06132;P55957;Q9HBZ2;O14965;P29474;O14508;Q9UBS8;O15527;P51587;P02511;Q13033;Q16656;P55212;P24864;P40763;P14921;P27797}

8955 Pathogen[ P14075] interacts with 18 human partners:{P29474;P35869;P55957;P06132;Q16656;P30279;P55212;O15527;P08397;O14965;P27797;P27986;Q9H3M7;P14921;P02511;Q9UBS8;Q13033;P24864}

8956 Pathogen[ P0C206] interacts with 25 human partners:{P27797;P14921;P35869;O15527;P51587;P30279;P55212;O15524;P27986;Q16656;Q9UBS8;O14508;Q14790;P40763;P29474;Q9H3M7;Q13033;O14965;P02511;P08397;P24864;Q15788;P06132;P55957;Q9HBZ2}

8957 Pathogen[ P03363] interacts with 18 human partners:{P29474;P55957;O15527;P24864;O15524;P30279;Q9H3M7;P06132;Q13033;P14921;Q9HBZ2;P35869;P55212;P27797;Q16656;Q9UBS8;O14508;P27986}

8958 [Cluster 815]GO:0035162+P biological\_process [name]embryonic hemopoiesis [def] "The stages of blood cell formation that take place within the embryo." [GOC

8959 Pathogen[ Q2Q067] interacts with 5 human partners:{Q01196;P15976;P25791;Q8IX07;P40424}

8960 Pathogen[ P0C214] interacts with 3 human partners:{P40424;P25791;Q8IX07}

8961 Pathogen[ P03346] interacts with 8 human partners:{Q13351;Q92794;P25791;P17542;P15976;Q8IX07;P40424;Q01196}

8962 Pathogen[ Q85601] interacts with 4 human partners:{P15976;P40424;P25791;Q8IX07}

8963 Pathogen[ P14079] interacts with 4 human partners:{P15976;P25791;Q8IX07;Q13351}

8964 Pathogen[ P03383] interacts with 2 human partners:{P40424;P25791}

8965 Pathogen[ P03410] interacts with 4 human partners:{P25791;Q8IX07;P40424;P15976}

8966 Pathogen[ P14075] interacts with 2 human partners:{P40424;P25791}

8967 Pathogen[ P0C206] interacts with 4 human partners:{P15976;P40424;P25791;Q8IX07}

8968 Pathogen[ P03363] interacts with 2 human partners:{P25791;P40424}

8969 [Cluster 816]GO:0002028+P biological\_process [name] regulation of sodium ion transport [def] "Any process that modulates the frequency, rate or extent of the directed movement of sodium ions (Na+) into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore." [GOC

8970 Pathogen[ Q2Q067] interacts with 2 human partners:{P29474;Q04917}

8971 Pathogen[ P0C214] interacts with 2 human partners:{P29474;Q04917}

8972 Pathogen[ P03346] interacts with 2 human partners:{P29474;Q04917}

8973 Pathogen[ Q85601] interacts with 2 human partners:{Q04917;P29474}

8974 Pathogen[ P14079] interacts with 1 human partners:{Q04917}

8975 Pathogen[ P03383] interacts with 1 human partners:{P29474}

8976 Pathogen[ P03410] interacts with 2 human partners:{Q04917;P29474}

8977 Pathogen[ P14075] interacts with 1 human partners:{P29474}

8978 Pathogen[ P0C206] interacts with 2 human partners:{Q04917;P29474}

8979 Pathogen[ P03363] interacts with 2 human partners:{P29474;Q04917}

8980 [Cluster 817]GO:0046685+P biological\_process [name] response to arsenic-containing substance [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an arsenic stimulus from compounds containing arsenic, including arsenates, arsenites, and arsenides." [GOC

8981 Pathogen[ Q2Q067] interacts with 3 human partners:{P78317;P38936;Q9BXP5}

8982 Pathogen[ P0C214] interacts with 6 human partners:{Q9HBK9;P38936;P78317;P36551;P22830;Q9BXP5}

8983 Pathogen[ P03346] interacts with 4 human partners:{Q9BXP5;P78317;P38936;Q9HBK9}

8984 Pathogen[ Q85601] interacts with 3 human partners:{P78317;Q9BXP5;P38936}

8985 Pathogen[ P14079] interacts with 6 human partners:{P38936;P22830;Q9HBK9;P78317;P36551;Q9BXP5}

8986 Pathogen[ P03383] interacts with 2 human partners:{P78317;Q9BXP5}

8987 Pathogen[ P03410] interacts with 6 human partners:{Q9HBK9;Q9BXP5;P36551;P38936;P78317;P22830}

8988 Pathogen[ P14075] interacts with 2 human partners:{P78317;Q9BXP5}

8989 Pathogen[ P0C206] interacts with 6 human partners:{P36551;P78317;Q9HBK9;P22830;P38936;Q9BXP5}



8990 Pathogen[ P03363] interacts with 3 human partners:{Q9BXP5;P78317;Q9HBK9}

8991 [Cluster 818]GO:0051573+P biological\_process [name] negative regulation of histone H3-K9 methylation [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the covalent addition of a methyl group to the lysine at position 9 of histone H3." [GOC]

8992 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9UBC3;P26358}

8993 Pathogen[ P0C214] interacts with 1 human partners:{P26358}

8994 Pathogen[ P03346] interacts with 3 human partners:{Q9UBC3;P26358;Q02548}

8995 Pathogen[ Q85601] interacts with 2 human partners:{P26358;Q9UBC3}

8996 Pathogen[ P14079] interacts with 2 human partners:{Q9UBC3;P26358}

8997 Pathogen[ P03383] interacts with 1 human partners:{P26358}

8998 Pathogen[ P03410] interacts with 2 human partners:{P26358;Q9UBC3}

8999 Pathogen[ P14075] interacts with 1 human partners:{P26358}

9000 Pathogen[ P0C206] interacts with 3 human partners:{Q02548;P26358;Q9UBC3}

9001 Pathogen[ P03363] interacts with 3 human partners:{P26358;Q02548;Q9UBC3}

9002 [Cluster 819]GO:0010509+P biological\_process [name] polyamine homeostasis [def] "Any biological process involved in the maintenance of an internal steady state of a polyamine." [GOC]

9003 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9GZV4}

9004 Pathogen[ P0C214] interacts with 1 human partners:{Q9GZV4}

9005 Pathogen[ P03346] interacts with 1 human partners:{Q9GZV4}

9006 Pathogen[ Q85601] interacts with 1 human partners:{Q9GZV4}

9007 Pathogen[ P14079] interacts with 1 human partners:{Q9GZV4}

9008 Pathogen[ P03383] interacts with 1 human partners:{Q9GZV4}

9009 Pathogen[ P03410] interacts with 1 human partners:{Q9GZV4}

9010 Pathogen[ P14075] interacts with 1 human partners:{Q9GZV4}

9011 Pathogen[ P0C206] interacts with 1 human partners:{Q9GZV4}

9012 Pathogen[ P03363] interacts with 1 human partners:{Q9GZV4}

9013 [Cluster 820]GO:0051028+P biological\_process [name] mRNA transport [def] "The directed movement of mRNA, messenger ribonucleic acid, into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore." [GOC]

9014 Pathogen[ Q2Q067] interacts with 74 human partners:{Q96EE3;Q96FV9;O15234;P52948;Q12769;Q96HA1;P49790;P61326;P49792;P61579;Q9NPJ8;P55735;Q9H2T7;O75694;Q9H1B4;A8CG34;Q8WYP5;P38919;Q9UBU9;P61573;Q99567;Q8N1F7;Q69383;Q92945;P52594;Q7Z3B4;P42704;Q13838;Q6I9Y2;Q8NFH4;Q9BZI7;Q13769;P63241;P12270;Q9UND3;O14980;Q9BW27;Q86V81;P61576;Q53GS7;Q8TEM1;P61572;P61571;Q06787;Q9BVL2;Q9UKX7;Q6IS14;Q9Y5S9;Q8NFH3;Q9UIA9;P61574;P37198;A6NF01;Q8NI27;Q92621;Q14764;Q09161;O15504;P57740;Q9HC62;Q95271;Q9H4D5;P52298;P61575;Q14493;Q8WUM0;Q9GZV4;Q9NPA8;P35658;P61578;Q96QD9;Q8NFH5;Q5SRE5;Q9H1J1}

9015 Pathogen[ P0C214] interacts with 77 human partners:{Q9BZI7;Q96FV9;P55735;O15234;Q09161;Q6IS14;Q06787;Q9UIA9;Q8NFH5;O00159;Q86V81;Q9Y5S9;P61571;Q13769;Q9GZV4;Q8TEM1;Q14764;P57740;Q99567;P61572;Q8WYP5;Q9UND3;P61573;Q8N1F7;O75694;P42704;Q96EE3;Q9NPJ8;P49792;Q9UKX7;P61575;P63241;A8CG34;P52298;Q14493;Q9H1B4;P49790;A6NF01;O14980;P37198;Q9BW27;Q53GS7;P61326;P38919;P61576;P61574;P35658;Q9NPA8;Q8NFH3;P61579;Q8NI27;P61578;Q69383;Q9NUU7;O15504;Q9UMR2;Q9HC62;P12270;P52594;Q92945;Q9H2T7;Q96QD9;Q8NFH4;Q9BVL2;Q9H4D5;Q95271;Q5SRE5;Q13838;Q7Z3B4;Q8WUM0;P52948;Q92621;Q9UBU9;Q12769;Q6I9Y2;Q9H1J1;Q96HA1}

9016 Pathogen[ P03346] interacts with 82 human partners:{Q8TEM1;Q9Y5S9;Q96FV9;Q9BZI7;P55735;O15234;Q8NFH4;Q8WUM0;Q09161;Q06787;P12270;P61579;Q96PU8;Q12769;Q9H2T7;P09651;Q96EE3;Q99567;Q9GZV4;Q14764;Q9UKX7;O75694;Q9UMR2;P57740;P61578;Q8WYP5;Q9BVL2;P61573;Q8N1F7;Q53GS7;P38919;Q8NFH5;Q92945;Q13769;P63241;P37198;Q8NFH3;P35658;P52298;Q9H1B4;P61571;Q9UIA9;Q6IS14;P61572;Q5SRE5;Q9BTX1;Q14493;Q92621;Q96A72;Q9BW27;Q86V81;O14980;Q96J01;P61574;P42704;P52594;Q96QD9;P61326;Q13838;Q9NUU7;Q9H4D5;Q9HC62;Q9UBU9;Q95271;A8CG34;Q9UND3;P49790;P61575;Q96HA1;P61576;Q32P51;A6NF01;Q69383;Q7Z3B4;Q9NPA8;Q8NI27;Q9NPJ8;O15504;Q6I9Y2;P49792;Q9H1J1;P52948}

9017 Pathogen[ Q85601] interacts with 76 human partners:{Q8TEM1;Q9BZI7;Q5SRE5;O15234;Q9UIA9;Q8NFH4;Q8NFH3;Q96EE3;Q9GZV4;A8CG34;Q13769;Q12769;Q9UBU9;P57740;Q53GS7;Q8WYP5;Q9HC62;Q06787;P61326;P61573;Q8WUM0;Q8N1F7;Q9H4D5;Q9UMR2;Q9NPJ8;Q14764;Q86V81;P63241;P52594;P12270;Q9H1B4;O75694;Q09161;O15504;P38919;Q96FV9;Q9BW27;P61576;O00159;Q92621;Q13838;Q69383;P42704;Q9NUU7;P55735;P52948;A6NF01;Q96QD9;Q9UKX7;P61571;P61579;Q8NI27;Q8NFH5;P61572;O14980;P61575;P35658;Q99567;Q9NPA8;P61574;Q92945;Q9H2T7;P49792;P52298;Q9BVL2;Q96HA1;P61578;Q95271;Q9UND3;Q7Z3B4;Q6I9Y2;P49790;Q14493;Q9Y5S9;Q6IS14;Q9H1J1}

9018 Pathogen[ P14079] interacts with 72 human partners:{Q8NFH5;Q9BW27;Q96HA1;P61576;Q9H4D5;Q95271;P57740;Q8N1F7;Q6IS14;Q9NPJ8;P52298;P35658;Q9H1J1;A6NF01;A8CG34;Q9Y5S9;Q92621;Q8TEM1;P61579;Q8NI27;P42704;Q9UBU9;P52594;Q13838;Q9H1B4;Q96FV9;Q9UKX7;Q9BVL2;Q13769;O15504;P61572;Q6I9Y2;P61326;Q8WUM0;Q9HC62;P12270;Q53GS7;Q9UND3;Q8WYP5;Q9BZI7;P61573;Q99567;P61571;Q92945;Q86V81;Q8NFH3;Q96E3;P37198;P49790;P61574;P63241;Q8NFH4;Q14764;Q14493;Q14933;Q06787;Q9UIA9;P55735;Q12769;Q9H2T7;Q96QD9;P61578;P61575;Q5SRE5;Q9GZV4;O15234;O75694;Q9NPA8;Q9BTX1;Q09161;P52948;Q69383}

9019 Pathogen[ P03383] interacts with 74 human partners:{Q9BVL2;Q9H1B4;Q96EE3;O15504;Q8WUM0;Q9UBU9;O15234;Q92621;P49792;Q8NFH4;Q8NI27;P61574;Q9UIA9;Q9NPA8;P61572;A6NF01;P55735;Q9H4D5;P61571;P12270;Q13769;Q13838;A8CG34;Q9Y5S9;P52948;P57740;Q8NFH5;Q8WYP5;Q96FV9;Q06787;P61326;Q9GZV4;P61573;Q8N1F7;P38919;P61575;Q86V81;Q8TEM1;Q53GS7;P63241;Q12769;Q09161;Q99567;Q9BW27;Q92945;Q9H2T7;O149

80;Q14493;Q96QD9;Q9BTX1;Q5SRE5;P52298;P35658;Q96HA1;P61579;Q9UND3;Q9HC62;P42704;Q69383;P37198;Q9UKX7;O95271;P61576;P61578;Q7Z3B4;P52594;Q6I9Y2;P49790;Q14764;O75694;Q9NPJ8;Q8NFH3;Q9BZI7;Q9H1J1}

9020 Pathogen[ P03410] interacts with 78 human partners: {Q99567;Q13838;Q7Z3B4;P61576;Q9BW27;Q92945;P61578;P52594;P61326;O15234;A6NF01;Q9UKX7;Q8NI27;Q8NFH4;Q9Y5S9;Q5SRE5;Q14493;P52948;O15504;O00159;O75694;Q96HA1;Q69383;Q9H1J1;Q9BZI7;Q96FV9;Q96QD9;Q8N1F7;Q9H4D5;P61573;Q9UMR2;Q9NPA8;P49790;Q14764;Q9HC62;P61571;P12270;Q9NUU7;P35658;P52298;P61574;O95271;Q8NFH5;Q9UND3;P42704;Q8TEM1;Q86V81;Q9UBU9;Q96EE3;Q9H1B4;Q13769;P61572;P38919;Q9NPJ8;Q9H2T7;Q6I9Y2;Q8WUM0;P63241;A8CG34;Q09161;Q96A72;Q06787;Q9GZV4;P57740;P55735;Q12769;Q9UIA9;P61579;Q8WYP5;Q8NFH3;P61575;Q9BVL2;Q9BTX1;Q92621;O14980;P49792;Q6IS14;Q53GS7}

9021 Pathogen[ P14075] interacts with 74 human partners: {P42704;Q69383;P61575;O15234;Q09161;Q14764;Q86V81;P61576;Q13769;Q9H2T7;P61579;P61326;A8CG34;Q14493;P57740;P61572;Q8WYP5;Q92945;Q53GS7;P61573;P49792;Q8N1F7;Q9NPJ8;Q9UKX7;Q9GZV4;P63241;P35658;P12270;A6NF01;Q92621;P55735;P61574;Q8NI27;Q9BTX1;Q96QD9;Q96HA1;O14980;Q9BW27;Q6I9Y2;P61571;Q8TEM1;Q9UND3;Q9HC62;Q9NPA8;Q96EE3;P37198;Q5SRE5;Q06787;Q9UIA9;P52594;Q8NFH3;O15504;Q9Y5S9;Q99567;Q12769;Q9UBU9;Q9BVL2;P49790;Q9H1B4;Q8WUM0;O95271;P38919;Q9H4D5;Q96FV9;Q13838;O75694;Q7Z3B4;Q8NFH4;Q8NFH5;P61578;P52948;P52298;Q9BZI7;Q9H1J1}

9022 Pathogen[ P0C206] interacts with 75 human partners: {O95271;Q53GS7;P61572;Q96EE3;Q92621;Q8WYP5;Q9GZV4;Q9BZI7;P49790;Q6IS14;P52298;P61576;Q5SRE5;Q8NFH5;Q9NUU7;P61326;Q09161;Q06787;Q8NI27;Q7Z3B4;Q9HC62;Q96HA1;Q96PU8;P55735;P57740;Q13769;Q9NPJ8;Q8WUM0;P49792;Q8TEM1;Q9UKX7;Q9H4D5;Q96FV9;Q13838;Q9UBU9;O75694;O00159;P61575;P61571;Q9BTX1;O15234;Q9H1B4;A6NF01;Q9H2T7;Q99567;Q8NFH4;P61574;P63241;Q96QD9;P42704;O15504;A8CG34;Q9UIA9;Q12769;Q92945;Q9UMR2;P38919;Q9UND3;Q8NFH3;Q8N1F7;Q9NPA8;P61579;Q14493;P61578;P35658;Q6I9Y2;Q9BW27;Q69383;Q9BVL2;Q9Y5S9;Q86V81;Q14764;P12270;Q9H1J1;P61573}

9023 Pathogen[ P03363] interacts with 80 human partners: {Q06787;Q53GS7;Q7Z3B4;Q9GZV4;Q9H4D5;Q96J01;P38919;Q5SRE5;P12270;Q8NFH4;Q9UND3;Q8WYP5;Q8NFH3;O14980;Q12769;Q9H2T7;Q69383;P09651;Q9NUU7;P42704;A6NF01;Q13769;A8CG34;Q9UKX7;Q9UBU9;Q8NI27;Q32P51;P61575;Q96FV9;Q96PU8;P61326;Q96QD9;P61578;Q8WUM0;Q9BVL2;Q99567;Q92945;P61571;Q9HC62;Q86V81;Q9NPJ8;O95271;Q96HA1;P49792;P52298;Q13838;P35658;Q9NPA8;O75694;P49790;P61572;P61574;P57740;Q6I9Y2;Q9UMR2;Q9BTX1;P63241;Q96A72;Q9BZI7;P52948;P61579;O15504;P52594;Q6IS14;Q14493;P37198;Q8N1F7;Q92621;Q14764;Q8NFH5;P55735;Q9Y5S9;Q9H1B4;Q9BW27;Q9UIA9;P61573;P61576;Q09161;Q9H1J1;O15234}

9024 [Cluster 821]GO:0090083+P biological\_process [name] regulation of inclusion body assembly [def] "Any process that modulates the rate, frequency, or extent of inclusion body assembly. Inclusion body assembly is the aggregation, arrangement and bonding together of a set of components to form an inclusion body." [GOC]

9025 Pathogen[ Q2Q067] interacts with 1 human partners: {Q9Y6H5}

9026 Pathogen[ P0C214] interacts with 1 human partners: {Q9Y6H5}

9027 Pathogen[ P03346] interacts with 1 human partners: {Q9Y6H5}

9028 Pathogen[ Q85601] interacts with 1 human partners: {Q9Y6H5}

9029 Pathogen[ P14079] interacts with 2 human partners: {Q9Y6H5;Q9UL15}

9030 Pathogen[ P03383] interacts with 1 human partners: {Q9Y6H5}

9031 Pathogen[ P03410] interacts with 2 human partners: {Q9Y6H5;Q9UL15}

9032 Pathogen[ P14075] interacts with 1 human partners: {Q9Y6H5}

9033 Pathogen[ P0C206] interacts with 1 human partners: {Q9Y6H5}

9034 Pathogen[ P03363] interacts with 1 human partners: {Q9Y6H5}

9035 [Cluster 822]GO:0071333+P biological\_process [name] cellular response to glucose stimulus [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a glucose stimulus." [GOC]

9036 Pathogen[ Q2Q067] interacts with 3 human partners: {Q08209;Q96ST3;Q9UL36}

9037 Pathogen[ P0C214] interacts with 3 human partners: {Q9UL36;Q08209;Q96ST3}

9038 Pathogen[ P03346] interacts with 4 human partners: {Q06945;Q96ST3;Q9UL36;Q08209}

9039 Pathogen[ Q85601] interacts with 3 human partners: {Q08209;Q9UL36;Q96ST3}

9040 Pathogen[ P14079] interacts with 4 human partners: {Q9UL36;Q96ST3;P13498;Q08209}

9041 Pathogen[ P03383] interacts with 1 human partners: {Q96ST3}

9042 Pathogen[ P03410] interacts with 3 human partners: {Q08209;Q96ST3;Q9UL36}

9043 Pathogen[ P14075] interacts with 1 human partners: {Q96ST3}

9044 Pathogen[ P0C206] interacts with 3 human partners: {Q96ST3;Q9UL36;Q08209}

9045 Pathogen[ P03363] interacts with 2 human partners: {Q96ST3;Q9UL36}

9046 [Cluster 823]GO:0021666+P biological\_process [name] rhombomere 5 formation [def] "The process that gives rise to rhombomere 5. This process pertains to the initial formation of a structure from unspecified parts. Rhombomeres are transverse segments of the developing rhombencephalon. Rhombomeres are lineage restricted, express different genes from one another, and adopt different developmental fates. Rhombomeres are numbered in anterior to posterior order." [GO\_REF]

9047 Pathogen[ Q2Q067] interacts with 1 human partners: {P11161}

9048 Pathogen[ P0C214] interacts with 1 human partners: {P11161}

9049 Pathogen[ P03346] interacts with 1 human partners: {P11161}

9050 Pathogen[ Q85601] interacts with 1 human partners: {P11161}

9051 Pathogen[ P14079] interacts with 1 human partners: {P11161}

9052 Pathogen[ P03383] interacts with 1 human partners: {P11161}

9053 Pathogen[ P03410] interacts with 1 human partners: {P11161}

9054 Pathogen[ P14075] interacts with 1 human partners:{P11161}  
9055 Pathogen[ POC206] interacts with 1 human partners:{P11161}  
9056 Pathogen[ P03363] interacts with 1 human partners:{P11161}  
9057 [Cluster 824]GO:0010810+P biological\_process [name] regulation of cell-substrate adhesion [def] "Any process that modulates the frequency, rate or extent of cell-substrate adhesion. Cell-substrate adhesion is the attachment of a cell to the underlying substrate via adhesion molecules." [GOC  
9058 Pathogen[ Q2Q067] interacts with 1 human partners:{P54252}  
9059 Pathogen[ POC214] interacts with 1 human partners:{P54252}  
9060 Pathogen[ P03346] interacts with 1 human partners:{P54252}  
9061 Pathogen[ Q85601] interacts with 1 human partners:{P54252}  
9062 Pathogen[ P14079] interacts with 1 human partners:{P54252}  
9063 Pathogen[ P03383] interacts with 1 human partners:{P54252}  
9064 Pathogen[ P03410] interacts with 1 human partners:{P54252}  
9065 Pathogen[ P14075] interacts with 1 human partners:{P54252}  
9066 Pathogen[ POC206] interacts with 1 human partners:{P54252}  
9067 Pathogen[ P03363] interacts with 1 human partners:{P54252}  
9068 [Cluster 825]GO:0001947+P biological\_process [name] heart looping [def] "The characteristic morphogenetic movements where the primitive heart tube loops asymmetrically. This looping brings the primitive heart chambers into alignment preceding their future integration." [GOC  
9069 Pathogen[ Q2Q067] interacts with 6 human partners:{O60481;O96004;P11831;P84022;Q15468;Q9UMX1}  
9070 Pathogen[ POC214] interacts with 6 human partners:{P84022;P11831;Q15468;O96004;Q9UMX1;O60481}  
9071 Pathogen[ P03346] interacts with 10 human partners:{P52954;P11831;O96004;P84022;O60481;Q8N157;P35713;O75593;Q15468;Q9UMX1}  
9072 Pathogen[ Q85601] interacts with 5 human partners:{P11831;O60481;O96004;P84022;Q9UMX1}  
9073 Pathogen[ P14079] interacts with 10 human partners:{Q06413;O60481;Q8N157;Q9UMX1;O96004;Q8N3I7;Q8IWZ6;Q4AC94;Q15468;Q9Y366}  
9074 Pathogen[ P03383] interacts with 6 human partners:{P11831;Q15468;O96004;P84022;O60481;Q9UMX1}  
9075 Pathogen[ P03410] interacts with 11 human partners:{P84022;P11831;O96004;O60481;Q4AC94;Q15468;Q9Y366;Q8N157;Q8N3I7;Q8IWZ6;Q9UMX1}  
9076 Pathogen[ P14075] interacts with 6 human partners:{P11831;O60481;O96004;Q15468;P84022;Q9UMX1}  
9077 Pathogen[ POC206] interacts with 9 human partners:{P84022;Q15468;O60481;Q9UMX1;Q8N3I7;O96004;Q8N157;P11831;Q86YT6}  
9078 Pathogen[ P03363] interacts with 7 human partners:{Q15468;O60481;Q9UMX1;P11831;Q8N157;P84022;O96004}  
9079 [Cluster 826]GO:0030837+P biological\_process [name] negative regulation of actin filament polymerization [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of actin polymerization." [GOC  
9080 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9Y6D6;P35080;Q14678}  
9081 Pathogen[ POC214] interacts with 4 human partners:{P35080;Q14678;Q2V2M9;Q9Y6D6}  
9082 Pathogen[ P03346] interacts with 4 human partners:{Q14678;Q2V2M9;Q9Y6D6;P35080}  
9083 Pathogen[ Q85601] interacts with 4 human partners:{Q2V2M9;P35080;Q14678;Q9Y6D6}  
9084 Pathogen[ P14079] interacts with 4 human partners:{P35080;Q9Y6D6;Q2V2M9;Q14678}  
9085 Pathogen[ P03383] interacts with 3 human partners:{P35080;Q14678;Q9Y6D6}  
9086 Pathogen[ P03410] interacts with 4 human partners:{P35080;Q9Y6D6;Q2V2M9;Q14678}  
9087 Pathogen[ P14075] interacts with 3 human partners:{Q9Y6D6;P35080;Q14678}  
9088 Pathogen[ POC206] interacts with 4 human partners:{Q9Y6D6;Q2V2M9;Q14678;P35080}  
9089 Pathogen[ P03363] interacts with 4 human partners:{P35080;Q2V2M9;Q9Y6D6;Q14678}  
9090 [Cluster 827]GO:0090402+P biological\_process [name] oncogene-induced senescence [def] "A cellular senescence process associated with the dismantling of a cell as a response to oncogenic stress, such as the activation of the Ras oncogenic family." [GOC  
9091 Pathogen[ Q2Q067] interacts with 1 human partners:{P17096}  
9092 Pathogen[ POC214] interacts with 1 human partners:{P17096}  
9093 Pathogen[ P03346] interacts with 1 human partners:{P17096}  
9094 Pathogen[ Q85601] interacts with 1 human partners:{P17096}  
9095 Pathogen[ P14079] interacts with 1 human partners:{P17096}  
9096 Pathogen[ P03383] interacts with 1 human partners:{P17096}  
9097 Pathogen[ P03410] interacts with 1 human partners:{P17096}  
9098 Pathogen[ P14075] interacts with 1 human partners:{P17096}  
9099 Pathogen[ POC206] interacts with 1 human partners:{P17096}  
9100 Pathogen[ P03363] interacts with 1 human partners:{P17096}  
9101 [Cluster 828]GO:0045778+P biological\_process [name] positive regulation of ossification [def] "Any process that activates or increases the frequency, rate or extent of bone formation." [GOC  
9102 Pathogen[ Q2Q067] interacts with 2 human partners:{Q05516;Q14106}  
9103 Pathogen[ POC214] interacts with 2 human partners:{Q14106;Q05516}  
9104 Pathogen[ P03346] interacts with 3 human partners:{Q05516;Q92832;Q14106}  
9105 Pathogen[ Q85601] interacts with 2 human partners:{Q14106;Q05516}  
9106 Pathogen[ P14079] interacts with 3 human partners:{Q05516;Q14106;Q92832}

9107 Pathogen[ P03383] interacts with 2 human partners:{Q14106;Q05516}  
9108 Pathogen[ P03410] interacts with 2 human partners:{Q92832;Q14106}  
9109 Pathogen[ P14075] interacts with 2 human partners:{Q14106;Q05516}  
9110 Pathogen[ P0C206] interacts with 3 human partners:{Q05516;Q14106;Q92832}  
9111 Pathogen[ P03363] interacts with 3 human partners:{Q92832;Q14106;Q05516}  
9112 [Cluster 829]GO:0032869+P biological\_process [name] cellular response to insulin stimulus [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an insulin stimulus. Insulin is a polypeptide hormone produced by the islets of Langerhans of the pancreas in mammals, and by the homologous organs of other organisms." [GOC  
9113 Pathogen[ Q2Q067] interacts with 18 human partners:{P31749;Q9UKV0;P30279;P05062;P36956;Q8N5D0;Q9UQL6;P63146;Q92831;P09467;P09874;Q96RU7;P22415;P27986;Q9BQE4;Q9BX66;P14672;Q14693}  
9114 Pathogen[ P0C214] interacts with 17 human partners:{Q8N5D0;Q9BX66;P05062;P09467;Q9UKV0;Q96RU7;Q92831;P30279;P22415;Q9BQE4;P14672;P27986;Q9UQL6;P63146;P31749;P09874;Q14693}  
9115 Pathogen[ P03346] interacts with 17 human partners:{P30279;P36956;Q92831;P09467;Q9BX66;Q8N5D0;P31749;P63146;P09874;Q96RU7;Q9UKV0;P05062;P14672;Q9UQL6;P27986;P22415;Q14693}  
9116 Pathogen[ Q85601] interacts with 18 human partners:{Q9UKV0;P09874;P31749;P63146;Q9UQL6;Q9BX66;Q92831;P05062;P27986;P22415;P36956;P30279;Q96RU7;P09467;P14672;Q8N5D0;Q9BQE4;Q14693}  
9117 Pathogen[ P14079] interacts with 15 human partners:{P31751;Q9UQL6;P09874;P41238;Q8N5D0;Q9BQE4;Q14693;P14672;Q9UKV0;Q96RU7;P09467;Q9BX66;P36956;P63146;P22415}  
9118 Pathogen[ P03383] interacts with 15 human partners:{P27986;Q92831;Q9UQL6;P31749;P09467;P30279;Q9BQE4;P09874;Q96RU7;Q9UKV0;P63146;P14672;Q8N5D0;P22415;Q14693}  
9119 Pathogen[ P03410] interacts with 18 human partners:{Q92831;Q9UKV0;P36956;P27986;P30279;P41238;P31749;P05062;P09467;Q9BQE4;Q14693;Q9UQL6;P63146;P22415;P09874;Q8N5D0;Q96RU7;Q9BX66}  
9120 Pathogen[ P14075] interacts with 15 human partners:{Q9BQE4;Q92831;Q8N5D0;P30279;Q9UKV0;P31749;P27986;Q96RU7;Q9UQL6;P63146;P22415;P14672;P09467;P09874;Q14693}  
9121 Pathogen[ P0C206] interacts with 19 human partners:{P05062;P31749;P09874;P30279;P09467;Q9UKV0;P36956;Q92831;P27986;Q96RU7;Q9BQE4;P22415;Q9BX66;P14672;Q8N5D0;P41238;Q14693;P63146;Q9UQL6}  
9122 Pathogen[ P03363] interacts with 12 human partners:{Q9BX66;Q8N5D0;P30279;Q92831;Q9UQL6;P63146;P31749;Q9UKV0;P22415;P14672;P09874;P27986}  
9123 [Cluster 830]GO:0051593+P biological\_process [name] response to folic acid [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a folic acid stimulus." [GOC  
9124 Pathogen[ Q2Q067] interacts with 5 human partners:{Q16656;P06396;O15527;O60765;P16455}  
9125 Pathogen[ P0C214] interacts with 6 human partners:{Q16656;P06396;O60765;P16455;P35520;O15527}  
9126 Pathogen[ P03346] interacts with 4 human partners:{O60765;Q16656;P06396;O15527}  
9127 Pathogen[ Q85601] interacts with 5 human partners:{O15527;P06396;Q16656;P16455;O60765}  
9128 Pathogen[ P14079] interacts with 4 human partners:{Q16656;P16455;O15527;O60765}  
9129 Pathogen[ P03383] interacts with 4 human partners:{O60765;Q16656;O15527;P06396}  
9130 Pathogen[ P03410] interacts with 5 human partners:{P06396;O15527;P16455;Q16656;O60765}  
9131 Pathogen[ P14075] interacts with 4 human partners:{Q16656;O60765;O15527;P06396}  
9132 Pathogen[ P0C206] interacts with 5 human partners:{P06396;O15527;O60765;Q16656;P16455}  
9133 Pathogen[ P03363] interacts with 4 human partners:{O15527;O60765;P06396;Q16656}  
9134 [Cluster 831]GO:0033262+P biological\_process [name] regulation of DNA replication involved in S phase [def] "Any process that modulates the frequency, rate or extent of DNA replication that contributes to the progression through S phase of the cell cycle." [GOC  
9135 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BVW5}  
9136 Pathogen[ P0C214] interacts with 1 human partners:{Q9BVW5}  
9137 Pathogen[ P03346] interacts with 1 human partners:{Q9BVW5}  
9138 Pathogen[ Q85601] interacts with 1 human partners:{Q9BVW5}  
9139 Pathogen[ P14079] interacts with 1 human partners:{Q9BVW5}  
9140 Pathogen[ P03383] interacts with 1 human partners:{Q9BVW5}  
9141 Pathogen[ P03410] interacts with 1 human partners:{Q9BVW5}  
9142 Pathogen[ P14075] interacts with 1 human partners:{Q9BVW5}  
9143 Pathogen[ P0C206] interacts with 1 human partners:{Q9BVW5}  
9144 Pathogen[ P03363] interacts with 1 human partners:{Q9BVW5}  
9145 [Cluster 832]GO:2000795+P biological\_process [name] negative regulation of epithelial cell proliferation involved in lung morphogenesis [def] "Any process that stops,

prevents or reduces the frequency, rate or extent of epithelial cell proliferation involved in lung morphogenesis." [PMID

9146 Pathogen[ Q2Q067] interacts with 1 human partners:{000712}

9147 Pathogen[ P0C214] interacts with 1 human partners:{000712}

9148 Pathogen[ P03346] interacts with 1 human partners:{000712}

9149 Pathogen[ Q85601] interacts with 1 human partners:{000712}

9150 Pathogen[ P14079] interacts with 1 human partners:{000712}

9151 Pathogen[ P03383] interacts with 1 human partners:{000712}

9152 Pathogen[ P03410] interacts with 1 human partners:{000712}

9153 Pathogen[ P14075] interacts with 1 human partners:{000712}

9154 Pathogen[ P0C206] interacts with 1 human partners:{000712}

9155 Pathogen[ P03363] interacts with 1 human partners:{000712}

9156 [Cluster 833]GO:0045843+P biological\_process [name] negative regulation of striated muscle tissue development [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of striated muscle development." [GOC

9157 Pathogen[ Q2Q067] interacts with 3 human partners:{Q8IXJ6;Q9NQ29;O60248}

9158 Pathogen[ P0C214] interacts with 3 human partners:{Q9NQ29;Q8IXJ6;O60248}

9159 Pathogen[ P03346] interacts with 3 human partners:{O60248;Q8IXJ6;Q9NQ29}

9160 Pathogen[ Q85601] interacts with 3 human partners:{Q8IXJ6;O60248;Q9NQ29}

9161 Pathogen[ P14079] interacts with 3 human partners:{Q9NQ29;O60248;Q8IXJ6}

9162 Pathogen[ P03383] interacts with 2 human partners:{O60248;Q9NQ29}

9163 Pathogen[ P03410] interacts with 3 human partners:{Q8IXJ6;Q9NQ29;O60248}

9164 Pathogen[ P14075] interacts with 2 human partners:{O60248;Q9NQ29}

9165 Pathogen[ P0C206] interacts with 3 human partners:{O60248;Q9NQ29;Q8IXJ6}

9166 Pathogen[ P03363] interacts with 2 human partners:{O60248;Q9NQ29}

9167 [Cluster 834]GO:0030903+P biological\_process [name] notochord development [def] "The process whose specific outcome is the progression of the notochord over time, from its formation to the mature structure. The notochord is a mesoderm-derived structure located ventral of the developing nerve cord. In vertebrates, the notochord serves as a core around which other mesodermal cells form the vertebrae. In the most primitive chordates, which lack vertebrae, the notochord persists as a substitute for a vertebral column." [GOC

9168 Pathogen[ Q2Q067] interacts with 3 human partners:{P46937;Q15562;Q15468}

9169 Pathogen[ P0C214] interacts with 3 human partners:{P46937;Q15468;Q15562}

9170 Pathogen[ P03346] interacts with 5 human partners:{Q15562;P46937;Q02535;A8MTQ0;Q15468}

9171 Pathogen[ Q85601] interacts with 2 human partners:{Q15562;P46937}

9172 Pathogen[ P14079] interacts with 3 human partners:{P46937;Q15468;Q15562}

9173 Pathogen[ P03383] interacts with 3 human partners:{Q15562;Q15468;P46937}

9174 Pathogen[ P03410] interacts with 3 human partners:{Q15468;P46937;Q15562}

9175 Pathogen[ P14075] interacts with 3 human partners:{Q15562;Q15468;P46937}

9176 Pathogen[ P0C206] interacts with 3 human partners:{P46937;Q15468;Q15562}

9177 Pathogen[ P03363] interacts with 4 human partners:{Q15468;Q15562;A8MTQ0;P46937}

9178 [Cluster 835]GO:0001522+P biological\_process [name] pseudouridine synthesis [def] "The intramolecular conversion of uridine to pseudouridine within an RNA molecule. This posttranscriptional base modification occurs in tRNA, rRNA, and snRNAs." [GOC

9179 Pathogen[ Q2Q067] interacts with 6 human partners:{Q9Y606;Q9NPE3;O60832;Q9BZE2;Q96CM3;O95900}

9180 Pathogen[ P0C214] interacts with 9 human partners:{Q3MIT2;Q9NPE3;Q9UJJ7;Q9BZE2;O95900;O60832;Q9Y606;Q8IZ73;Q96CM3}

9181 Pathogen[ P03346] interacts with 8 human partners:{Q9Y606;O95900;Q9BZE2;O60832;Q8N0Z8;Q8WWH5;Q9NPE3;Q96CM3}

9182 Pathogen[ Q85601] interacts with 6 human partners:{Q9BZE2;Q9Y606;Q9UJJ7;Q9NPE3;Q96CM3;O60832}

9183 Pathogen[ P14079] interacts with 14 human partners:{Q9NPE3;Q9BZE2;Q3MIT2;Q96CM3;Q6P087;O60832;Q8IZ73;Q96PZ0;Q8N0Z8;Q9H0K6;Q9Y606;Q9UJJ7;O95900;Q8WWH5}

9184 Pathogen[ P03383] interacts with 6 human partners:{Q9NPE3;Q9BZE2;Q9Y606;O95900;Q96CM3;O60832}

9185 Pathogen[ P03410] interacts with 13 human partners:{Q8IZ73;O60832;Q9UJJ7;Q96CM3;Q8N0Z8;Q9BZE2;Q8WWH5;Q9Y606;Q9NPE3;O95900;Q6P087;Q9H0K6;Q3MIT2}

9186 Pathogen[ P14075] interacts with 9 human partners:{Q8N0Z8;Q9Y606;Q8WWH5;O95900;Q9NPE3;Q9UJJ7;Q9BZE2;O60832;Q96CM3}

9187 Pathogen[ P0C206] interacts with 11 human partners:{Q9NPE3;Q8WWH5;Q8IZ73;Q9UJJ7;Q9BZE2;Q6P087;O95900;O60832;Q9Y606;Q8N0Z8;Q96CM3}

9188 Pathogen[ P03363] interacts with 8 human partners:{O60832;Q9BZE2;Q9Y606;O95900;Q9NPE3;Q8N0Z8;Q8WWH5;Q96CM3}

9189 [Cluster 836]GO:0033327+P biological\_process [name] Leydig cell differentiation [def] "The process in which a relatively unspecialized cell acquires specialized structural and/or functional features of a Leydig cell. A Leydig cell is a testosterone-secreting cell in the interstitial area, between the seminiferous tubules, in the testis." [GOC

9190 Pathogen[ Q2Q067] interacts with 2 human partners:{P24385;Q15637}

9191 Pathogen[ P0C214] interacts with 2 human partners:{Q15637;P24385}

9192 Pathogen[ P03346] interacts with 4 human partners: {P24385;Q15637;P51843;Q9HB21}

9193 Pathogen[ Q85601] interacts with 3 human partners: {Q15637;P24385;Q9HB21}

9194 Pathogen[ P14079] interacts with 3 human partners: {Q15637;P10620;Q9HB21}

9195 Pathogen[ P03383] interacts with 2 human partners: {P24385;Q15637}

9196 Pathogen[ P03410] interacts with 3 human partners: {Q15637;Q9HB21;P24385}

9197 Pathogen[ P14075] interacts with 2 human partners: {Q15637;P24385}

9198 Pathogen[ P0C206] interacts with 3 human partners: {Q15637;Q9HB21;P24385}

9199 Pathogen[ P03363] interacts with 2 human partners: {Q15637;P24385}

9200 [Cluster 837]GO:0035455+P biological\_process [name] response to interferon-alpha  
 [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an interferon-alpha stimulus. Interferon-alpha is a type I interferon." [GOC]

9201 Pathogen[ Q2Q067] interacts with 2 human partners: {P55265;Q9Y2M5}

9202 Pathogen[ P0C214] interacts with 2 human partners: {P55265;Q9Y2M5}

9203 Pathogen[ P03346] interacts with 2 human partners: {P55265;Q9Y2M5}

9204 Pathogen[ Q85601] interacts with 2 human partners: {P55265;Q9Y2M5}

9205 Pathogen[ P14079] interacts with 3 human partners: {P13164;P55265;Q9Y2M5}

9206 Pathogen[ P03383] interacts with 2 human partners: {P55265;Q9Y2M5}

9207 Pathogen[ P03410] interacts with 2 human partners: {P55265;Q9Y2M5}

9208 Pathogen[ P14075] interacts with 2 human partners: {P55265;Q9Y2M5}

9209 Pathogen[ P0C206] interacts with 2 human partners: {P55265;Q9Y2M5}

9210 Pathogen[ P03363] interacts with 2 human partners: {Q9Y2M5;P55265}

9211 [Cluster 838]GO:0045622+P biological\_process [name] regulation of T-helper cell differentiation  
 [def] "Any process that modulates the frequency, rate or extent of T-helper cell differentiation." [GOC]

9212 Pathogen[ Q2Q067] interacts with 1 human partners: {Q15306}

9213 Pathogen[ P0C214] interacts with 1 human partners: {Q15306}

9214 Pathogen[ P03346] interacts with 1 human partners: {Q15306}

9215 Pathogen[ Q85601] interacts with 1 human partners: {Q15306}

9216 Pathogen[ P14079] interacts with 1 human partners: {Q15306}

9217 Pathogen[ P03383] interacts with 1 human partners: {Q15306}

9218 Pathogen[ P03410] interacts with 1 human partners: {Q15306}

9219 Pathogen[ P14075] interacts with 1 human partners: {Q15306}

9220 Pathogen[ P0C206] interacts with 1 human partners: {Q15306}

9221 Pathogen[ P03363] interacts with 1 human partners: {Q15306}

9222 [Cluster 839]GO:0032873+P biological\_process [name] negative regulation of stress-activated MAPK cascade  
 [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of signal transduction mediated by the stress-activated MAPK cascade." [GOC]

9223 Pathogen[ Q2Q067] interacts with 3 human partners: {P01106;Q08050;P78318}

9224 Pathogen[ P0C214] interacts with 2 human partners: {P78318;P01106}

9225 Pathogen[ P03346] interacts with 4 human partners: {Q08050;P01106;Q12778;P78318}

9226 Pathogen[ Q85601] interacts with 3 human partners: {P01106;Q08050;P78318}

9227 Pathogen[ P14079] interacts with 2 human partners: {P01106;P78318}

9228 Pathogen[ P03383] interacts with 2 human partners: {P01106;P78318}

9229 Pathogen[ P03410] interacts with 2 human partners: {P01106;P78318}

9230 Pathogen[ P14075] interacts with 3 human partners: {Q08050;P01106;P78318}

9231 Pathogen[ P0C206] interacts with 3 human partners: {P78318;Q08050;P01106}

9232 Pathogen[ P03363] interacts with 3 human partners: {P01106;Q08050;P78318}

9233 [Cluster 840]GO:0051271+P biological\_process [name] negative regulation of cellular component movement  
 [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the movement of a cellular component." [GOC]

9234 Pathogen[ Q2Q067] interacts with 2 human partners: {P23497;P46527}

9235 Pathogen[ P0C214] interacts with 2 human partners: {P46527;P23497}

9236 Pathogen[ P03346] interacts with 2 human partners: {P23497;P46527}

9237 Pathogen[ Q85601] interacts with 1 human partners: {P46527}

9238 Pathogen[ P14079] interacts with 2 human partners: {P23497;P46527}

9239 Pathogen[ P03383] interacts with 2 human partners: {P46527;P23497}

9240 Pathogen[ P03410] interacts with 1 human partners: {P46527}

9241 Pathogen[ P14075] interacts with 2 human partners: {P23497;P46527}

9242 Pathogen[ P0C206] interacts with 1 human partners: {P46527}

9243 Pathogen[ P03363] interacts with 1 human partners: {P23497}

9244 [Cluster 841]GO:0061136+P biological\_process [name] regulation of proteasomal protein catabolic process  
 [def] "Any process that modulates the rate, frequency, or extent of the chemical reactions and pathways resulting in the breakdown of a protein or peptide by hydrolysis of its peptide bonds that is mediated by the proteasome." [GOC]

9245 Pathogen[ Q2Q067] interacts with 4 human partners: {Q9Y5K5;Q8WXU2;Q9Y297;P61289}

9246 Pathogen[ P0C214] interacts with 3 human partners: {Q9Y297;Q9Y5K5;Q8WXU2}

9247 Pathogen[ P03346] interacts with 4 human partners: {Q8WXU2;P61289;Q9Y297;Q9Y5K5}

9248 Pathogen[ Q85601] interacts with 3 human partners: {P61289;Q8WXU2;Q9Y5K5}

9249 Pathogen[ P14079] interacts with 4 human partners: {O00487;P61289;Q8WXU2;Q9Y5K5}

9250 Pathogen[ P03383] interacts with 3 human partners: {Q9Y5K5;P61289;Q8WXU2}

9251 Pathogen[ P03410] interacts with 3 human partners: {Q8WXU2;Q9Y5K5;P61289}

9252 Pathogen[ P14075] interacts with 3 human partners: {P61289;Q8WXU2;Q9Y5K5}

9253 Pathogen[ P0C206] interacts with 3 human partners: {P61289;Q9Y5K5;Q8WXU2}

9254 Pathogen[ P03363] interacts with 3 human partners: {Q9Y5K5;P61289;Q8WXU2}

9255 [Cluster 842]GO:0002281+P biological\_process [name] macrophage activation involved in immune response [def] "A change in morphology and behavior of a macrophage resulting from exposure to a cytokine, chemokine, cellular ligand, or soluble factor, leading to the initiation or perpetuation of an immune response." [GOC

9256 Pathogen[ Q2Q067] interacts with 2 human partners:{Q8IUC6;Q9Y2G9}

9257 Pathogen[ P0C214] interacts with 2 human partners:{Q9Y2G9;Q8IUC6}

9258 Pathogen[ P03346] interacts with 2 human partners:{Q9Y2G9;Q8IUC6}

9259 Pathogen[ Q85601] interacts with 2 human partners:{Q8IUC6;Q9Y2G9}

9260 Pathogen[ P14079] interacts with 2 human partners:{Q8IUC6;Q9Y2G9}

9261 Pathogen[ P03383] interacts with 2 human partners:{Q8IUC6;Q9Y2G9}

9262 Pathogen[ P03410] interacts with 2 human partners:{Q9Y2G9;Q8IUC6}

9263 Pathogen[ P14075] interacts with 2 human partners:{Q9Y2G9;Q8IUC6}

9264 Pathogen[ P0C206] interacts with 2 human partners:{Q8IUC6;Q9Y2G9}

9265 Pathogen[ P03363] interacts with 1 human partners:{Q9Y2G9}

9266 [Cluster 843]GO:0085020+P biological\_process [name] protein K6-linked ubiquitination [def] "A protein ubiquitination process in which a polymer of ubiquitin, formed by linkages between lysine residues at position 6 of the ubiquitin monomers, is added to a protein. K6-linked ubiquitination is involved in DNA repair." [GOC

9267 Pathogen[ Q2Q067] interacts with 5 human partners:{Q9Y2X8;P78317;Q99728;Q9NPD8;Q9Y252}

9268 Pathogen[ P0C214] interacts with 6 human partners:{Q16763;Q99728;P78317;Q9Y2X8;Q9Y252;Q9NPD8}

9269 Pathogen[ P03346] interacts with 5 human partners:{Q99728;Q9Y2X8;Q9NPD8;P78317;Q9Y252}

9270 Pathogen[ Q85601] interacts with 6 human partners:{P78317;Q16763;Q9Y2X8;Q99728;Q9NPD8;Q9Y252}

9271 Pathogen[ P14079] interacts with 3 human partners:{Q9NPD8;Q9Y2X8;P78317}

9272 Pathogen[ P03383] interacts with 4 human partners:{Q9Y2X8;P78317;Q9Y252;Q9NPD8}

9273 Pathogen[ P03410] interacts with 3 human partners:{P78317;Q9Y2X8;Q9NPD8}

9274 Pathogen[ P14075] interacts with 4 human partners:{Q9Y252;Q9Y2X8;Q9NPD8;P78317}

9275 Pathogen[ P0C206] interacts with 6 human partners:{Q16763;Q9Y2X8;Q9NPD8;P78317;Q99728;Q9Y252}

9276 Pathogen[ P03363] interacts with 5 human partners:{Q9Y252;P78317;Q9NPD8;Q99728;Q9Y2X8}

9277 [Cluster 844]GO:0010944+P biological\_process [name] negative regulation of transcription by competitive promoter binding [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of DNA-dependent transcription using a mechanism that involves direct competition for interaction with a promoter binding site." [GOC

9278 Pathogen[ Q2Q067] interacts with 3 human partners:{O15105;P35232;Q9UI36}

9279 Pathogen[ P0C214] interacts with 4 human partners:{O15105;Q9UI36;P16220;P35232}

9280 Pathogen[ P03346] interacts with 5 human partners:{P16220;O15105;Q9C0J9;P35232;Q9UI36}

9281 Pathogen[ Q85601] interacts with 4 human partners:{P16220;Q9UI36;P35232;O15105}

9282 Pathogen[ P14079] interacts with 4 human partners:{P35232;Q9UI36;P15941;O15105}

9283 Pathogen[ P03383] interacts with 4 human partners:{P16220;O15105;P35232;Q9UI36}

9284 Pathogen[ P03410] interacts with 5 human partners:{Q9UI36;P15941;P16220;O15105;P35232}

9285 Pathogen[ P14075] interacts with 4 human partners:{P35232;O15105;Q9UI36;P16220}

9286 Pathogen[ P0C206] interacts with 5 human partners:{P16220;Q9C0J9;O15105;P35232;Q9UI36}

9287 Pathogen[ P03363] interacts with 5 human partners:{Q9C0J9;P16220;O15105;Q9UI36;P35232}

9288 [Cluster 845]GO:0051351+P biological\_process [name] positive regulation of ligase activity [def] "Any process that activates or increases the frequency, rate or extent of ligase activity, the catalysis of the ligation of two substances with concomitant breaking of a diphosphate linkage, usually in a nucleoside triphosphate." [GOC

9289 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9H9Q4;Q13426;Q9NPA3}

9290 Pathogen[ P0C214] interacts with 3 human partners:{Q9H9Q4;Q9NPA3;Q13426}

9291 Pathogen[ P03346] interacts with 3 human partners:{Q13426;Q9H9Q4;Q9NPA3}

9292 Pathogen[ Q85601] interacts with 3 human partners:{Q13426;Q9NPA3;Q9H9Q4}

9293 Pathogen[ P14079] interacts with 3 human partners:{Q9NPA3;Q9H9Q4;Q13426}

9294 Pathogen[ P03383] interacts with 3 human partners:{Q9H9Q4;Q13426;Q9NPA3}

9295 Pathogen[ P03410] interacts with 3 human partners:{Q13426;Q9NPA3;Q9H9Q4}

9296 Pathogen[ P14075] interacts with 3 human partners:{Q9H9Q4;Q9NPA3;Q13426}

9297 Pathogen[ P0C206] interacts with 3 human partners:{Q9NPA3;Q9H9Q4;Q13426}

9298 Pathogen[ P03363] interacts with 3 human partners:{Q13426;Q9H9Q4;Q9NPA3}

9299 [Cluster 846]GO:0040014+P biological\_process [name] regulation of multicellular organism growth [def] "Any process that modulates the frequency, rate or extent of growth of the body of an organism so that it reaches its usual body size." [GOC

9300 Pathogen[ Q2Q067] interacts with 4 human partners:{Q9H2K2;P40763;O15379;O75376}

9301 Pathogen[ P0C214] interacts with 4 human partners:{O75376;O15379;Q9H2K2;P40763}

9302 Pathogen[ P03346] interacts with 4 human partners:{O15379;Q9H2K2;O75376;P40763}

9303 Pathogen[ Q85601] interacts with 4 human partners:{P40763;Q9H2K2;O75376;O15379}

9304 Pathogen[ P14079] interacts with 6 human partners:{O15379;Q9C0B1;Q9H2K2;Q14353;O75376;P81277}

9305 Pathogen[ P03383] interacts with 2 human partners:{075376;015379}  
9306 Pathogen[ P03410] interacts with 7 human  
partners:{Q14353;075376;015379;Q9H2K2;P81277;Q9C0B1;P40763}  
9307 Pathogen[ P14075] interacts with 2 human partners:{075376;015379}  
9308 Pathogen[ P0C206] interacts with 4 human partners:{015379;075376;P40763;Q9H2K2}  
9309 Pathogen[ P03363] interacts with 3 human partners:{015379;075376;Q9H2K2}  
9310 [Cluster 847]GO:0042168+P biological\_process [name] heme metabolic process [def]  
"The chemical reactions and pathways involving heme, any compound of iron complexed in a  
porphyrin (tetrapyrrole) ring." [GOC  
9311 Pathogen[ Q2Q067] interacts with 1 human partners:{P06132}  
9312 Pathogen[ P0C214] interacts with 1 human partners:{P06132}  
9313 Pathogen[ P03346] interacts with 1 human partners:{P06132}  
9314 Pathogen[ Q85601] interacts with 1 human partners:{P06132}  
9315 Pathogen[ P14079] interacts with 1 human partners:{P06132}  
9316 Pathogen[ P03383] interacts with 1 human partners:{P06132}  
9317 Pathogen[ P03410] interacts with 1 human partners:{P06132}  
9318 Pathogen[ P14075] interacts with 1 human partners:{P06132}  
9319 Pathogen[ P0C206] interacts with 1 human partners:{P06132}  
9320 Pathogen[ P03363] interacts with 1 human partners:{P06132}  
9321 [Cluster 848]GO:0021869+P biological\_process [name] forebrain ventricular zone  
progenitor cell division [def] "The mitotic division of a basal progenitor giving  
rise to two neurons." [GO\_REF  
9322 Pathogen[ Q2Q067] interacts with 1 human partners:{P20265}  
9323 Pathogen[ P0C214] interacts with 1 human partners:{P20265}  
9324 Pathogen[ P03346] interacts with 2 human partners:{P20264;P20265}  
9325 Pathogen[ Q85601] interacts with 1 human partners:{P20265}  
9326 Pathogen[ P14079] interacts with 1 human partners:{P20265}  
9327 Pathogen[ P03383] interacts with 1 human partners:{P20265}  
9328 Pathogen[ P03410] interacts with 1 human partners:{P20265}  
9329 Pathogen[ P14075] interacts with 1 human partners:{P20265}  
9330 Pathogen[ P0C206] interacts with 1 human partners:{P20265}  
9331 Pathogen[ P03363] interacts with 2 human partners:{P20264;P20265}  
9332 [Cluster 849]GO:0006409+P biological\_process [name] tRNA export from nucleus [def]  
"The directed movement of tRNA from the nucleus to the cytoplasm." [GOC  
9333 Pathogen[ Q2Q067] interacts with 1 human partners:{043592}  
9334 Pathogen[ P0C214] interacts with 1 human partners:{043592}  
9335 Pathogen[ P03346] interacts with 1 human partners:{043592}  
9336 Pathogen[ Q85601] interacts with 1 human partners:{043592}  
9337 Pathogen[ P14079] interacts with 1 human partners:{043592}  
9338 Pathogen[ P03383] interacts with 1 human partners:{043592}  
9339 Pathogen[ P03410] interacts with 1 human partners:{043592}  
9340 Pathogen[ P14075] interacts with 1 human partners:{043592}  
9341 Pathogen[ P0C206] interacts with 1 human partners:{043592}  
9342 Pathogen[ P03363] interacts with 1 human partners:{043592}  
9343 [Cluster 850]GO:0008306+P biological\_process [name] associative learning [def]  
"Learning by associating a stimulus (the cause) with a particular outcome (the effect)."  
[ISBN  
9344 Pathogen[ Q2Q067] interacts with 2 human partners:{P11831;P78543}  
9345 Pathogen[ P0C214] interacts with 2 human partners:{P78543;P11831}  
9346 Pathogen[ P03346] interacts with 2 human partners:{P11831;P78543}  
9347 Pathogen[ Q85601] interacts with 2 human partners:{P11831;P78543}  
9348 Pathogen[ P14079] interacts with 1 human partners:{P78543}  
9349 Pathogen[ P03383] interacts with 2 human partners:{P11831;P78543}  
9350 Pathogen[ P03410] interacts with 3 human partners:{P11831;P78543;Q9UBY8}  
9351 Pathogen[ P14075] interacts with 2 human partners:{P11831;P78543}  
9352 Pathogen[ P0C206] interacts with 2 human partners:{P11831;P78543}  
9353 Pathogen[ P03363] interacts with 2 human partners:{P78543;P11831}  
9354 [Cluster 851]GO:0040007+P biological\_process [name] growth [def] "The increase in  
size or mass of an entire organism, a part of an organism or a cell." [GOC  
9355 Pathogen[ Q2Q067] interacts with 3 human partners:{Q15424;095067;Q9P1Q0}  
9356 Pathogen[ P0C214] interacts with 3 human partners:{095067;Q15424;Q9P1Q0}  
9357 Pathogen[ P03346] interacts with 3 human partners:{095067;Q9P1Q0;Q15424}  
9358 Pathogen[ Q85601] interacts with 3 human partners:{Q15424;Q9P1Q0;095067}  
9359 Pathogen[ P14079] interacts with 3 human partners:{Q9P1Q0;095067;Q15424}  
9360 Pathogen[ P03383] interacts with 3 human partners:{095067;Q9P1Q0;Q15424}  
9361 Pathogen[ P03410] interacts with 3 human partners:{095067;Q15424;Q9P1Q0}  
9362 Pathogen[ P14075] interacts with 3 human partners:{095067;Q15424;Q9P1Q0}  
9363 Pathogen[ P0C206] interacts with 3 human partners:{Q9P1Q0;Q15424;095067}  
9364 Pathogen[ P03363] interacts with 3 human partners:{Q9P1Q0;Q15424;095067}  
9365 [Cluster 852]GO:0001659+P biological\_process [name] temperature homeostasis [def] "A  
homeostatic process in which an organism modulates its internal body temperature." [GOC  
9366 Pathogen[ Q2Q067] interacts with 2 human partners:{P40763;060543}  
9367 Pathogen[ P0C214] interacts with 2 human partners:{060543;P40763}  
9368 Pathogen[ P03346] interacts with 3 human partners:{Q12778;P40763;060543}  
9369 Pathogen[ Q85601] interacts with 2 human partners:{P40763;060543}  
9370 Pathogen[ P14079] interacts with 2 human partners:{Q9C0B1;060543}



9371 Pathogen[ P03383] interacts with 1 human partners:{O60543}

9372 Pathogen[ P03410] interacts with 3 human partners:{O60543;Q9C0B1;P40763}

9373 Pathogen[ P14075] interacts with 1 human partners:{O60543}

9374 Pathogen[ P0C206] interacts with 2 human partners:{P40763;O60543}

9375 Pathogen[ P03363] interacts with 1 human partners:{O60543}

9376 [Cluster 853]GO:0010390+P biological\_process [name] histone monoubiquitination  
[def] "The modification of histones by addition of a single ubiquitin group." [PMID

9377 Pathogen[ Q2Q067] interacts with 10 human  
partners:{Q8WVC0;Q6PD62;Q6P1J9;Q96T88;P51965;Q5VTR2;Q8TDB6;O75150;Q8N7H5;Q9BTA9}

9378 Pathogen[ P0C214] interacts with 10 human  
partners:{P51965;Q96T88;Q6P1J9;Q8N7H5;Q8WVC0;O75150;Q9BTA9;Q5VTR2;Q8TDB6;Q6PD62}

9379 Pathogen[ P03346] interacts with 10 human  
partners:{Q6PD62;O75150;Q5VTR2;P51965;Q8WVC0;Q8TDB6;Q6P1J9;Q96T88;Q8N7H5;Q9BTA9}

9380 Pathogen[ Q85601] interacts with 10 human  
partners:{Q6PD62;Q8TDB6;Q8WVC0;Q6P1J9;Q9BTA9;P51965;Q96T88;O75150;Q5VTR2;Q8N7H5}

9381 Pathogen[ P14079] interacts with 7 human  
partners:{P51965;Q9BTA9;Q6PD62;Q5VTR2;Q8WVC0;Q6P1J9;Q8N7H5}

9382 Pathogen[ P03383] interacts with 8 human  
partners:{Q6P1J9;Q9BTA9;P51965;Q6PD62;Q8WVC0;Q5VTR2;O75150;Q8N7H5}

9383 Pathogen[ P03410] interacts with 8 human  
partners:{Q8WVC0;Q6PD62;P51965;Q5VTR2;Q8N7H5;O75150;Q6P1J9;Q9BTA9}

9384 Pathogen[ P14075] interacts with 8 human  
partners:{Q5VTR2;Q8WVC0;P51965;Q8N7H5;Q6P1J9;Q6PD62;O75150;Q9BTA9}

9385 Pathogen[ P0C206] interacts with 10 human  
partners:{Q6PD62;Q5VTR2;Q8TDB6;P51965;Q8N7H5;Q96T88;Q8WVC0;Q9BTA9;O75150;Q6P1J9}

9386 Pathogen[ P03363] interacts with 10 human  
partners:{Q8TDB6;P51965;Q8WVC0;Q5VTR2;O75150;Q6P1J9;Q96T88;Q8N7H5;Q9BTA9;Q6PD62}

9387 [Cluster 854]GO:0000184+P biological\_process [name] nuclear-transcribed mRNA  
catabolic process, nonsense-mediated decay [def] "The nonsense-mediated decay pathway  
for nuclear-transcribed mRNAs degrades mRNAs in which an amino-acid codon has changed to  
a nonsense codon\_ this prevents the translation of such mRNAs into truncated, and  
potentially harmful, proteins." [GOC

9388 Pathogen[ Q2Q067] interacts with 113 human  
partners:{Q92900;P61313;P30153;P62701;O15234;P47914;Q8IU60;P46779;Q9UPR3;Q02543;P613  
26;P26373;P62750;Q8IZD4;P63151;P62273;Q9NPI6;P15880;P40429;P46782;P35268;P22090;P467  
78;Q96C86;P38919;P62888;P32969;P62277;P62241;P62244;P05387;P62861;P42766;P67775;P053  
86;Q9BZI7;Q9UNX3;Q504Q3;P30050;Q9BRP8;P18077;P62891;Q9HAU5;P61927;P39023;P62081;P612  
47;P61254;P62249;P62280;O43310;P83731;P62263;Q86US8;P60866;P62906;Q9H0W8;Q02878;P467  
77;P62899;P08708;P08865;Q07020;P62913;P62269;P60228;Q9Y5S9;P62424;P62917;P62829;P467  
83;Q8IYD1;P62495;P36578;P62857;P62847;P49207;P62396;Q09161;Q92540;P63173;P18621;P522  
98;Q9NPI6;P39019;P61353;Q04637;P62266;P42677;Q9Y3U8;P63220;P62841;P83881;P62987;O954  
53;P50914;P46776;Q8ND04;P11940;P62854;P62753;P05388;P18124;P62851;P25398;P62910;Q929  
01;P46781;P27635;P61513;P62945;Q9H1J1;P62979}

9389 Pathogen[ P0C214] interacts with 113 human  
partners:{P62861;Q9BZI7;P84098;P61247;P60228;O15234;Q09161;Q96C86;P15880;P62081;P427  
66;P62913;P22090;Q92901;P62249;P62899;O95453;P62854;P39019;P62263;Q9BRP8;P30153;Q9NP  
I6;Q9Y5S9;P62273;P23396;Q92900;P18077;P05388;P62847;P62829;Q504Q3;P26373;P27635;Q9NP  
J4;P46778;P61513;P83881;P62701;P49207;P11940;P63220;Q92540;P08865;P32969;Q02543;P622  
66;Q9HAU5;P15170;P62277;P50914;P46779;P52298;P40429;Q86US8;P47914;P63173;P46783;P622  
80;P61326;Q9UNX3;P38919;Q9Y3U8;P30050;P62753;P62910;Q8ND04;P62891;O43310;P63151;Q9UP  
R3;P62495;P62269;P67775;P46781;Q8IYD1;Q8IU60;P61254;P62841;Q15287;P62244;P62987;Q046  
37;Q07020;P42677;P62945;P46776;P62241;P46777;P83731;P35268;P62424;P60866;P62857;P613  
13;P08708;P05387;P25398;Q9H0W8;P61927;P62750;P62979;P05386;P62851;P46782;P18124;P613  
53;P36578;P18621;P62906;Q8IZD4;Q02878;Q9H1J1}

9390 Pathogen[ P03346] interacts with 115 human  
partners:{Q9UPR3;Q9Y5S9;Q9BZI7;P05387;P46779;O15234;Q504Q3;Q09161;P63173;P62917;P622  
49;P62913;P62861;Q9NPI6;P62277;Q02878;Q86US8;Q96C86;P62280;P39023;P62987;P61927;Q9UN  
X3;P62857;P46778;P49207;P62266;P61254;P38919;P62495;P11940;P62424;P62273;P67775;P837  
31;Q8ND04;P60866;P62899;P52298;Q9NPI6;P35268;P62891;P08708;O95453;P30153;P46782;P613  
53;Q8IU60;P62854;Q9Y3U8;P47914;P08865;P60228;P61313;P25398;P61513;P05388;P62269;Q025  
43;P42766;P62081;P61247;P18621;Q8IYD1;P46781;P61326;Q9HAU5;P84098;P15880;Q92540;P509  
14;P62829;P62979;P39019;P23396;P42677;Q15287;O43310;P62750;P62701;P30050;P62910;P365  
78;P62847;P62851;Q9H0W8;P22090;Q04637;Q8IZD4;P46777;Q9BRP8;Q07020;P62263;P62841;P838  
81;P05386;Q92900;P18077;P46776;P62241;P62753;P62851;P62841;P62945;Q92901;P32969;P26373;P18124;P404  
29;P27635;P46783;P62906;P63151;P62244;P62888;Q9H1J1;P63220}

9391 Pathogen[ Q85601] interacts with 116 human  
partners:{P46783;P32969;Q9BZI7;P61513;P26373;O15234;P62857;P62244;P62913;P62854;P620  
81;Q9NPI6;P61353;P62891;P46776;P18077;P61313;P05388;P63151;P62495;Q9H0W8;Q92540;P631  
73;P23396;P62273;P46778;P62829;P30050;P62753;P27635;P61326;Q15287;Q04637;P15880;P838  
81;Q07020;P30153;P39019;Q9Y3U8;P62701;P62241;P62424;P83731;P62899;P62945;Q9BRP8;Q504  
Q3;P62263;P62861;Q02878;Q09161;P39023;P38919;P61254;Q96C86;P49207;P60228;P11940;P629  
10;P62249;P62280;P15170;Q9HAU5;P47914;P84098;P08708;O95453;P42766;P62269;Q8IZD4;Q9NP  
J4;P18621;Q8IYD1;Q8ND04;P05387;Q9UNX3;P62277;P35268;P67775;P62979;P62847;Q86US8;P426  
77;P63220;Q9UPR3;P46782;P46779;P62750;P62851;P62841;P62945;P52298;P62987;P22090;P61927;P365  
78;P05386;Q92900;O43310;P08865;P61247;P46777;P62917;Q92901;P18124;P46781;P25398;P608  
66;Q9Y5S9;Q02543;P62906;P50914;P62266;Q8IU60;P40429;P62888;Q9H1J1}



partners:{Q99966;Q9H116;P31270;Q9NSC2;Q99502;O43680;P01106;Q9NSA3;Q06710;Q15475;P40424;Q13485;Q12959;Q9UJU5}

9402 Pathogen[ Q85601] interacts with 9 human  
partners:{P01106;Q9H116;Q99966;P40424;Q99502;Q12959;Q9NSC2;Q9NSA3;Q13485}

9403 Pathogen[ P14079] interacts with 5 human  
partners:{Q99502;Q99966;P01106;Q9NSC2;Q9H116}

9404 Pathogen[ P03383] interacts with 6 human  
partners:{Q13485;P01106;P40424;Q9NSA3;Q9NSC2;Q9H116}

9405 Pathogen[ P03410] interacts with 9 human  
partners:{Q9NSA3;P01106;Q99502;Q12959;Q9H116;Q13485;Q9NSC2;P40424;Q99966}

9406 Pathogen[ P14075] interacts with 7 human  
partners:{Q9NSC2;P40424;Q9H116;P01106;Q13485;Q9NSA3;Q99502}

9407 Pathogen[ P0C206] interacts with 9 human  
partners:{Q9NSA3;Q9NSC2;P40424;Q13485;Q9H116;Q99966;Q99502;P01106;Q12959}

9408 Pathogen[ P03363] interacts with 7 human  
partners:{Q12959;P01106;Q9NSA3;Q13485;P40424;Q9H116;Q9UJU5}

9409 [Cluster 856]GO:0051897+P biological\_process [name] positive regulation of protein kinase B signaling cascade [def] "Any process that activates or increases the frequency, rate or extent of the protein kinase B signaling cascade, a series of reactions mediated by the intracellular serine/threonine kinase protein kinase B." [GOC  
9410 Pathogen[ Q2Q067] interacts with 5 human  
partners:{Q86VY4;Q86UE4;Q8WYR1;Q99687;O95429}

9411 Pathogen[ P0C214] interacts with 5 human  
partners:{Q86UE4;Q8WYR1;Q99687;O95429;Q86VY4}

9412 Pathogen[ P03346] interacts with 5 human  
partners:{Q99687;Q86UE4;Q8WYR1;Q86VY4;O95429}

9413 Pathogen[ Q85601] interacts with 5 human  
partners:{Q99687;Q86VY4;Q86UE4;Q8WYR1;O95429}

9414 Pathogen[ P14079] interacts with 6 human  
partners:{O43597;O95429;Q8WYR1;Q99687;Q86UE4;Q86VY4}

9415 Pathogen[ P03383] interacts with 5 human  
partners:{Q86VY4;Q86UE4;Q99687;Q8WYR1;O95429}

9416 Pathogen[ P03410] interacts with 6 human  
partners:{Q8WYR1;O43597;Q99687;O95429;Q86UE4;Q86VY4}

9417 Pathogen[ P14075] interacts with 5 human  
partners:{Q99687;Q8WYR1;Q86UE4;Q86VY4;O95429}

9418 Pathogen[ P0C206] interacts with 6 human  
partners:{Q86VY4;O95429;O43597;Q99687;Q86UE4;Q8WYR1}

9419 Pathogen[ P03363] interacts with 5 human  
partners:{Q8WYR1;Q86UE4;Q86VY4;Q99687;O95429}

9420 [Cluster 857]GO:0000154+P biological\_process [name] rRNA modification [def] "The covalent alteration of one or more nucleotides within an rRNA molecule to produce an rRNA molecule with a sequence that differs from that coded genetically." [GOC  
9421 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9H5Q4;Q8WVM0;Q9UNQ2}

9422 Pathogen[ P0C214] interacts with 3 human partners:{Q9UNQ2;Q8WVM0;Q9H5Q4}

9423 Pathogen[ P03346] interacts with 3 human partners:{Q9UNQ2;Q9H5Q4;Q8WVM0}

9424 Pathogen[ Q85601] interacts with 3 human partners:{Q9H5Q4;Q8WVM0;Q9UNQ2}

9425 Pathogen[ P14079] interacts with 4 human partners:{Q9UNQ2;Q96FB5;Q9H5Q4;Q8WVM0}

9426 Pathogen[ P03383] interacts with 3 human partners:{Q9UNQ2;Q9H5Q4;Q8WVM0}

9427 Pathogen[ P03410] interacts with 4 human partners:{Q9UNQ2;Q9H5Q4;Q96FB5;Q8WVM0}

9428 Pathogen[ P14075] interacts with 3 human partners:{Q9H5Q4;Q9UNQ2;Q8WVM0}

9429 Pathogen[ P0C206] interacts with 3 human partners:{Q8WVM0;Q9UNQ2;Q9H5Q4}

9430 Pathogen[ P03363] interacts with 3 human partners:{Q9UNQ2;Q8WVM0;Q9H5Q4}

9431 [Cluster 858]GO:0006953+P biological\_process [name] acute-phase response [def] "An acute inflammatory response that involves non-antibody proteins whose concentrations in the plasma increase in response to infection or injury of homeothermic animals." [ISBN  
9432 Pathogen[ Q2Q067] interacts with 6 human  
partners:{P40763;P01009;P17676;O15162;P08697;P49715}

9433 Pathogen[ P0C214] interacts with 5 human  
partners:{P08697;P01011;P17676;O15162;P40763}

9434 Pathogen[ P03346] interacts with 5 human  
partners:{P17676;P49715;P01009;P40763;O15162}

9435 Pathogen[ Q85601] interacts with 7 human  
partners:{P17676;P40763;P01011;P08697;P01009;P49715;O15162}

9436 Pathogen[ P14079] interacts with 3 human partners:{O15162;P49715;P0DJ18}

9437 Pathogen[ P03383] interacts with 4 human partners:{O15162;P08697;P01009;P17676}

9438 Pathogen[ P03410] interacts with 7 human  
partners:{P0DJ18;P17676;O15162;P08697;P01009;P40763;P01011}

9439 Pathogen[ P14075] interacts with 4 human partners:{O15162;P01009;P08697;P17676}

9440 Pathogen[ P0C206] interacts with 7 human  
partners:{P49715;P01009;P17676;P40763;O15162;P01011;P08697}

9441 Pathogen[ P03363] interacts with 1 human partners:{P17676}

9442 [Cluster 859]GO:0007099+P biological\_process [name] centriole replication [def] "The cell cycle process in which a daughter centriole is formed perpendicular to an existing centriole. An immature centriole contains a ninefold radially symmetric array of single microtubules\_ mature centrioles consist of a radial array of nine microtubule

triplets, doublets, or singlets depending upon the species and cell type." [GOC

9443 Pathogen[ Q2Q067] interacts with 7 human  
partners:{Q8N137;Q9HC77;Q66GS9;O43303;O75665;Q6UVJ0;P41208}

9444 Pathogen[ POC214] interacts with 7 human  
partners:{Q9HC77;O43303;Q66GS9;P41208;O75665;Q6UVJ0;Q8N137}

9445 Pathogen[ P03346] interacts with 8 human  
partners:{Q8N137;Q9HC77;P41208;Q66GS9;O75665;Q6UVJ0;O43303;O00444}

9446 Pathogen[ Q85601] interacts with 7 human  
partners:{Q8N137;Q6UVJ0;Q9HC77;O43303;Q66GS9;O75665;P41208}

9447 Pathogen[ P14079] interacts with 7 human  
partners:{Q6UVJ0;Q66GS9;O43303;P41208;Q8N137;O75665;Q9HC77}

9448 Pathogen[ P03383] interacts with 7 human  
partners:{Q6UVJ0;O43303;P41208;Q9HC77;Q66GS9;Q8N137;O75665}

9449 Pathogen[ P03410] interacts with 7 human  
partners:{O75665;O43303;Q66GS9;Q9HC77;Q6UVJ0;Q8N137;P41208}

9450 Pathogen[ P14075] interacts with 7 human  
partners:{O43303;Q9HC77;Q6UVJ0;Q66GS9;Q8N137;P41208;O75665}

9451 Pathogen[ POC206] interacts with 8 human  
partners:{Q8N137;Q9HC77;O00444;Q6UVJ0;Q66GS9;O75665;P41208;O43303}

9452 Pathogen[ P03363] interacts with 7 human  
partners:{Q9HC77;Q66GS9;O43303;P41208;Q6UVJ0;O75665;Q8N137}

9453 [Cluster 860]GO:0070935+P biological\_process [name] 3'-UTR-mediated mRNA  
stabilization [def] "An mRNA stabilization process in which one or more RNA-binding  
proteins associate with the 3'-untranslated region (UTR) of an mRNA." [GOC

9454 Pathogen[ Q2Q067] interacts with 2 human partners:{Q13148;P26651}

9455 Pathogen[ POC214] interacts with 2 human partners:{P26651;Q13148}

9456 Pathogen[ P03346] interacts with 2 human partners:{Q13148;P26651}

9457 Pathogen[ Q85601] interacts with 2 human partners:{Q13148;P26651}

9458 Pathogen[ P14079] interacts with 2 human partners:{Q13148;Q99836}

9459 Pathogen[ P03383] interacts with 2 human partners:{P26651;Q13148}

9460 Pathogen[ P03410] interacts with 2 human partners:{P26651;Q13148}

9461 Pathogen[ P14075] interacts with 2 human partners:{P26651;Q13148}

9462 Pathogen[ POC206] interacts with 2 human partners:{P26651;Q13148}

9463 Pathogen[ P03363] interacts with 4 human partners:{Q13151;Q13148;Q15717;P26651}

9464 [Cluster 861]GO:0006165+P biological\_process [name] nucleoside diphosphate  
phosphorylation [def] "The process of introducing a phosphate group into a nucleoside  
diphosphate to produce a nucleoside triphosphate." [GOC

9465 Pathogen[ Q2Q067] interacts with 1 human partners:{P22392}

9466 Pathogen[ POC214] interacts with 1 human partners:{P22392}

9467 Pathogen[ P03346] interacts with 1 human partners:{P22392}

9468 Pathogen[ Q85601] interacts with 1 human partners:{P22392}

9469 Pathogen[ P14079] interacts with 2 human partners:{P22392;Q86XW9}

9470 Pathogen[ P03383] interacts with 1 human partners:{P22392}

9471 Pathogen[ P03410] interacts with 1 human partners:{Q86XW9}

9472 Pathogen[ P14075] interacts with 1 human partners:{P22392}

9473 Pathogen[ POC206] interacts with 2 human partners:{P22392;Q86XW9}

9474 Pathogen[ P03363] interacts with 1 human partners:{Q86XW9}

9475 [Cluster 862]GO:0006090+P biological\_process [name] pyruvate metabolic process  
[def] "The chemical reactions and pathways involving pyruvate, 2-oxopropanoate." [GOC

9476 Pathogen[ Q2Q067] interacts with 4 human partners:{P07195;P10515;P00338;P07864}

9477 Pathogen[ POC214] interacts with 10 human  
partners:{Q8NCN5;P11177;P07864;O60825;Q9P0J1;P09622;P10515;Q9P2J9;Q16798;P07195}

9478 Pathogen[ P03346] interacts with 4 human partners:{Q8NCN5;P00338;P07195;P10515}

9479 Pathogen[ Q85601] interacts with 5 human  
partners:{O60825;P07864;P07195;P10515;P00338}

9480 Pathogen[ P14079] interacts with 5 human  
partners:{P00338;P07195;P07864;P10515;Q8NCN5}

9481 Pathogen[ P03383] interacts with 4 human partners:{P00338;P07864;P07195;P10515}

9482 Pathogen[ P03410] interacts with 5 human  
partners:{P07195;P00338;Q8NCN5;P07864;P10515}

9483 Pathogen[ P14075] interacts with 5 human  
partners:{Q8NCN5;P07195;P07864;P10515;P00338}

9484 Pathogen[ POC206] interacts with 6 human  
partners:{P07195;P07864;O60825;Q8NCN5;P00338;P10515}

9485 Pathogen[ P03363] interacts with 1 human partners:{P10515}

9486 [Cluster 863]GO:0032211+P biological\_process [name] negative regulation of telomere  
maintenance via telomerase [def] "Any process that stops, prevents, or reduces the  
frequency, rate or extent of the addition of telomeric repeats by telomerase." [GOC

9487 Pathogen[ Q2Q067] interacts with 3 human partners:{P54274;Q9BSI4;Q96AP0}

9488 Pathogen[ POC214] interacts with 2 human partners:{Q9BSI4;P54274}

9489 Pathogen[ P03346] interacts with 4 human partners:{Q9BSI4;Q96AP0;P54274;Q9NUX5}

9490 Pathogen[ Q85601] interacts with 1 human partners:{P54274}

9491 Pathogen[ P14079] interacts with 4 human partners:{P54274;Q9NUX5;Q9BSI4;Q96AP0}

9492 Pathogen[ P03383] interacts with 2 human partners:{Q9BSI4;P54274}

9493 Pathogen[ P03410] interacts with 4 human partners:{Q9NUX5;Q96AP0;P54274;Q9BSI4}

9494 Pathogen[ P14075] interacts with 3 human partners:{Q9BSI4;Q96AP0;P54274}

9495 Pathogen[ P0C206] interacts with 4 human partners:{Q96AP0;Q9BSI4;P54274;Q9NUX5}

9496 Pathogen[ P03363] interacts with 4 human partners:{Q9BSI4;Q96AP0;P54274;Q9NUX5}

9497 [Cluster 864]GO:0071896+P biological\_process [name] protein localization to adherens junction [def] "Any process in which a protein is transported to, and/or maintained at the adherens junction." [GOC

9498 Pathogen[ Q2Q067] interacts with 2 human partners:{Q14160;P15924}

9499 Pathogen[ P0C214] interacts with 2 human partners:{P15924;Q14160}

9500 Pathogen[ P03346] interacts with 3 human partners:{P15924;Q5T2T1;Q14160}

9501 Pathogen[ Q85601] interacts with 2 human partners:{P15924;Q14160}

9502 Pathogen[ P14079] interacts with 2 human partners:{P15924;Q5T2T1}

9503 Pathogen[ P03383] interacts with 2 human partners:{P15924;Q14160}

9504 Pathogen[ P03410] interacts with 3 human partners:{P15924;Q14160;Q5T2T1}

9505 Pathogen[ P14075] interacts with 2 human partners:{Q14160;P15924}

9506 Pathogen[ P0C206] interacts with 3 human partners:{Q5T2T1;Q14160;P15924}

9507 Pathogen[ P03363] interacts with 3 human partners:{Q14160;Q5T2T1;P15924}

9508 [Cluster 865]GO:0003198+P biological\_process [name] epithelial to mesenchymal transition involved in endocardial cushion formation [def] "A transition where a cardiac epithelial cell loses apical/basolateral polarity, severs intercellular adhesive junctions, degrades basement membrane components and becomes a migratory mesenchymal cell that will contribute to the formation of the endocardial cushion." [GOC

9509 Pathogen[ Q2Q067] interacts with 4 human partners:{Q9NQ87;P35548;Q06330;Q9Y5J3}

9510 Pathogen[ P0C214] interacts with 4 human partners:{Q9Y5J3;Q06330;Q9NQ87;P35548}

9511 Pathogen[ P03346] interacts with 4 human partners:{Q06330;P35548;Q9Y5J3;Q9NQ87}

9512 Pathogen[ Q85601] interacts with 4 human partners:{Q06330;P35548;Q9NQ87;Q9Y5J3}

9513 Pathogen[ P14079] interacts with 4 human partners:{Q06330;Q9Y5J3;Q9NQ87;P28360}

9514 Pathogen[ P03383] interacts with 3 human partners:{Q06330;Q9NQ87;P35548}

9515 Pathogen[ P03410] interacts with 4 human partners:{Q9Y5J3;Q06330;Q9NQ87;P35548}

9516 Pathogen[ P14075] interacts with 3 human partners:{P35548;Q9NQ87;Q06330}

9517 Pathogen[ P0C206] interacts with 4 human partners:{Q9NQ87;Q06330;Q9Y5J3;P35548}

9518 Pathogen[ P03363] interacts with 4 human partners:{Q9Y5J3;Q06330;Q9NQ87;P35548}

9519 [Cluster 866]GO:0009996+P biological\_process [name]negative regulation of cell fate specification [def] "Any process that restricts, stops or prevents a cell from adopting a specific cell fate." [GOC

9520 Pathogen[ Q2Q067] interacts with 1 human partners:{Q99684}

9521 Pathogen[ P0C214] interacts with 1 human partners:{Q99684}

9522 Pathogen[ P03346] interacts with 1 human partners:{Q99684}

9523 Pathogen[ Q85601] interacts with 1 human partners:{Q99684}

9524 Pathogen[ P14079] interacts with 1 human partners:{Q99684}

9525 Pathogen[ P03383] interacts with 1 human partners:{Q99684}

9526 Pathogen[ P03410] interacts with 1 human partners:{Q99684}

9527 Pathogen[ P14075] interacts with 1 human partners:{Q99684}

9528 Pathogen[ P0C206] interacts with 1 human partners:{Q99684}

9529 Pathogen[ P03363] interacts with 1 human partners:{Q99684}

9530 [Cluster 867]GO:0035338+P biological\_process [name] long-chain fatty-acyl-CoA biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of a long-chain fatty-acyl-CoA any derivative of coenzyme A in which the sulfhydryl group is in a thioester linkage with a long-chain fatty-acyl group. Long-chain fatty-acyl-CoAs have chain lengths ranging from C12-18." [ISBN

9531 Pathogen[ Q2Q067] interacts with 5 human partners:{Q9H5J4;Q9BW60;Q9GZR5;A1L3X0;Q9HB03}

9532 Pathogen[ P0C214] interacts with 7 human partners:{Q9NXB9;P53396;Q9GZR5;Q9HB03;Q9NYP7;A1L3X0;Q9BW60}

9533 Pathogen[ P03346] interacts with 3 human partners:{Q9BW60;Q9H5J4;Q9HB03}

9534 Pathogen[ Q85601] interacts with 5 human partners:{A1L3X0;Q9BW60;Q9H5J4;Q9HB03;Q9GZR5}

9535 Pathogen[ P14079] interacts with 5 human partners:{A1L3X0;Q9HB03;Q9GZR5;Q9BW60;Q9H5J4}

9536 Pathogen[ P03383] interacts with 5 human partners:{Q9BW60;Q9GZR5;Q9H5J4;A1L3X0;Q9HB03}

9537 Pathogen[ P03410] interacts with 5 human partners:{A1L3X0;Q9GZR5;Q9H5J4;Q9BW60;Q9HB03}

9538 Pathogen[ P14075] interacts with 5 human partners:{Q9H5J4;Q9BW60;Q9HB03;A1L3X0;Q9GZR5}

9539 Pathogen[ P0C206] interacts with 5 human partners:{Q9HB03;Q9H5J4;Q9GZR5;A1L3X0;Q9BW60}

9540 Pathogen[ P03363] interacts with 1 human partners:{Q9H5J4}

9541 [Cluster 868]GO:0014075+P biological\_process [name] response to amine stimulus [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an amine stimulus. An amine is a compound formally derived from ammonia by replacing one, two or three hydrogen atoms by hydrocarbyl groups." [CHEBI

9542 Pathogen[ Q2Q067] interacts with 1 human partners:{P06132}

9543 Pathogen[ P0C214] interacts with 1 human partners:{P06132}

9544 Pathogen[ P03346] interacts with 2 human partners:{P50135;P06132}

9545 Pathogen[ Q85601] interacts with 1 human partners:{P06132}

9546 Pathogen[ P14079] interacts with 2 human partners:{P50135;P06132}

9547 Pathogen[ P03383] interacts with 1 human partners:{P06132}

9548 Pathogen[ P03410] interacts with 2 human partners:{P06132;P50135}

9549 Pathogen[ P14075] interacts with 1 human partners:{P06132}

9550 Pathogen[ P0C206] interacts with 2 human partners:{P50135;P06132}

9551 Pathogen[ P03363] interacts with 2 human partners:{P50135;P06132}

9552 [Cluster 869]GO:0051329+P biological\_process [name] interphase of mitotic cell cycle [def] "Interphase occurring as part of the mitotic cell cycle. Canonically, interphase is the stage of the cell cycle during which the biochemical and physiologic functions of the cell are performed and replication of chromatin occurs. A mitotic cell cycle is one which canonically comprises four successive phases called G1, S, G2, and M and includes replication of the genome and the subsequent segregation of chromosomes into daughter cells." [GOC

9553 Pathogen[ Q2Q067] interacts with 2 human partners:{Q96ST3;Q96FF9}

9554 Pathogen[ P0C214] interacts with 2 human partners:{Q96FF9;Q96ST3}

9555 Pathogen[ P03346] interacts with 2 human partners:{Q96ST3;Q96FF9}

9556 Pathogen[ Q85601] interacts with 2 human partners:{Q96FF9;Q96ST3}

9557 Pathogen[ P14079] interacts with 2 human partners:{Q96ST3;Q96FF9}

9558 Pathogen[ P03383] interacts with 2 human partners:{Q96FF9;Q96ST3}

9559 Pathogen[ P03410] interacts with 2 human partners:{Q96ST3;Q96FF9}

9560 Pathogen[ P14075] interacts with 2 human partners:{Q96ST3;Q96FF9}

9561 Pathogen[ P0C206] interacts with 2 human partners:{Q96ST3;Q96FF9}

9562 Pathogen[ P03363] interacts with 2 human partners:{Q96ST3;Q96FF9}

9563 [Cluster 870]GO:0097202+P

9564 Pathogen[ Q2Q067] interacts with 1 human partners:{Q16666}

9565 Pathogen[ P0C214] interacts with 1 human partners:{Q16666}

9566 Pathogen[ P03346] interacts with 1 human partners:{Q16666}

9567 Pathogen[ Q85601] interacts with 1 human partners:{Q16666}

9568 Pathogen[ P14079] interacts with 1 human partners:{Q16666}

9569 Pathogen[ P03383] interacts with 1 human partners:{Q16666}

9570 Pathogen[ P03410] interacts with 1 human partners:{Q16666}

9571 Pathogen[ P14075] interacts with 1 human partners:{Q16666}

9572 Pathogen[ P0C206] interacts with 1 human partners:{Q16666}

9573 Pathogen[ P03363] interacts with 1 human partners:{Q16666}

9574 [Cluster 871]GO:0035065+P biological\_process [name] regulation of histone acetylation [def] "Any process that modulates the frequency, rate or extent of the addition of an acetyl group to a histone protein." [GOC

9575 Pathogen[ Q2Q067] interacts with 3 human partners:{P23769;Q9Y6B2;P49711}

9576 Pathogen[ P0C214] interacts with 3 human partners:{P23769;Q9Y6B2;P49711}

9577 Pathogen[ P03346] interacts with 3 human partners:{P23769;P49711;Q9Y6B2}

9578 Pathogen[ Q85601] interacts with 3 human partners:{P23769;P49711;Q9Y6B2}

9579 Pathogen[ P14079] interacts with 3 human partners:{Q9Y6B2;P23769;P49711}

9580 Pathogen[ P03383] interacts with 3 human partners:{P49711;P23769;Q9Y6B2}

9581 Pathogen[ P03410] interacts with 3 human partners:{Q9Y6B2;P49711;P23769}

9582 Pathogen[ P14075] interacts with 3 human partners:{P23769;Q9Y6B2;P49711}

9583 Pathogen[ P0C206] interacts with 3 human partners:{P49711;P23769;Q9Y6B2}

9584 Pathogen[ P03363] interacts with 2 human partners:{P49711;Q9Y6B2}

9585 [Cluster 872]GO:0021503+P biological\_process [name] neural fold bending [def] "The morphogenesis of the neural fold elevations that results in the movement of the tips of the elevations towards each other in order to fuse." [GO\_REF

9586 Pathogen[ Q2Q067] interacts with 1 human partners:{Q86V48}

9587 Pathogen[ P0C214] interacts with 1 human partners:{Q86V48}

9588 Pathogen[ P03346] interacts with 1 human partners:{Q86V48}

9589 Pathogen[ Q85601] interacts with 1 human partners:{Q86V48}

9590 Pathogen[ P14079] interacts with 1 human partners:{Q86V48}

9591 Pathogen[ P03383] interacts with 1 human partners:{Q86V48}

9592 Pathogen[ P03410] interacts with 1 human partners:{Q86V48}

9593 Pathogen[ P14075] interacts with 1 human partners:{Q86V48}

9594 Pathogen[ P0C206] interacts with 1 human partners:{Q86V48}

9595 Pathogen[ P03363] interacts with 1 human partners:{Q86V48}

9596 [Cluster 873]GO:0050847+P biological\_process [name] progesterone receptor signaling pathway [def] "Any series of molecular signals generated as a consequence of a progesterone binding to its receptor." [GOC

9597 Pathogen[ Q2Q067] interacts with 1 human partners:{P35232}

9598 Pathogen[ P0C214] interacts with 2 human partners:{O95071;P35232}

9599 Pathogen[ P03346] interacts with 4 human partners:{Q13886;P06401;P35232;O95071}

9600 Pathogen[ Q85601] interacts with 2 human partners:{P35232;O95071}

9601 Pathogen[ P14079] interacts with 1 human partners:{P35232}

9602 Pathogen[ P03383] interacts with 1 human partners:{P35232}

9603 Pathogen[ P03410] interacts with 1 human partners:{P35232}

9604 Pathogen[ P14075] interacts with 1 human partners:{P35232}

9605 Pathogen[ P0C206] interacts with 3 human partners:{P06401;P35232;O95071}

9606 Pathogen[ P03363] interacts with 2 human partners:{O95071;P35232}

9607 [Cluster 874]GO:0030224+P biological\_process [name] monocyte differentiation [def] "The process in which a relatively unspecialized myeloid precursor cell acquires the specialized features of a monocyte." [GOC

9608 Pathogen[ Q2Q067] interacts with 6 human

9609 partners:{Q16666;Q02447;Q13769;P13640;O00625;P35579}  
Pathogen[ P0C214] interacts with 6 human

9610 partners:{Q13769;Q16666;P13640;P05412;Q02447;O00625}  
Pathogen[ P03346] interacts with 7 human

9611 partners:{P05412;Q16666;P35579;Q13769;P13640;O00625;Q02447}  
Pathogen[ Q85601] interacts with 7 human

9612 partners:{Q16666;Q13769;P35579;P05412;Q02447;O00625;P13640}  
Pathogen[ P14079] interacts with 7 human

9613 partners:{O00625;P35579;Q02447;Q13769;P13640;P05412;Q16666}  
Pathogen[ P03383] interacts with 7 human

9614 partners:{P13640;Q13769;Q02447;O00625;Q16666;P35579;P05412}  
Pathogen[ P03410] interacts with 7 human

9615 partners:{Q16666;Q02447;P35579;P13640;O00625;Q13769;P05412}  
Pathogen[ P14075] interacts with 7 human

9616 partners:{P05412;Q13769;O00625;Q16666;P13640;P35579;Q02447}  
Pathogen[ P0C206] interacts with 7 human

9617 partners:{P13640;P05412;Q16666;O00625;Q13769;Q02447;P35579}  
Pathogen[ P03363] interacts with 7 human

9618 partners:{P35579;Q02447;P13640;Q13769;Q16666;O00625;P05412}  
[Cluster 875]GO:0051436+P biological\_process [name] negative regulation of  
ubiquitin-protein ligase activity involved in mitotic cell cycle [def] "Any process  
that stops, prevents, or reduces the frequency, rate or extent of ubiquitin ligase  
activity that contributes to the mitotic cell cycle." [GOC

9619 Pathogen[ Q2Q067] interacts with 56 human  
partners:{Q99460;O75832;P48556;P40306;P55036;O00231;O00233;Q9UJX3;Q9UJX5;P51665;P280  
72;O00762;Q13257;Q13200;P25787;Q06323;O43684;Q9NYG5;Q9H1A4;P51965;P28065;O14818;Q9UJ  
X2;Q9UM13;P60900;Q9UL46;P61289;Q12834;P51668;P28062;Q9UNM6;P25788;Q92530;P25786;Q8NH  
Z8;Q16401;O00232;Q9UM11;Q9UJX4;P28074;P25789;Q9UKT4;P0CG47;P20618;P0CG48;P28070;P280  
66;Q99436;Q9UJX6;P62987;O43242;P30260;P49721;P49720;Q13042;P62979}

9620 Pathogen[ P0C214] interacts with 58 human  
partners:{Q9UJX6;P51665;O43684;Q13257;P25789;P55036;P28062;O00762;P28065;O14818;O432  
42;Q9UJX5;P48556;P40306;Q13200;Q9UJX2;O00232;P51965;Q99460;P28066;O75832;Q9H1A4;P497  
20;P28074;P0CG48;Q9UL46;Q8NHZ8;Q12834;P25788;Q9UNM6;O00231;Q06323;P25786;P28072;P629  
87;Q99436;Q9UJX4;P0CG47;P25787;Q9UJX3;P35998;P60900;O00233;Q9UM11;P51668;P62979;P302  
60;Q92530;Q9NYG5;Q15008;Q9UM13;P28070;Q9UKT4;P20618;P49721;Q16401;P17980;Q13042}

9621 Pathogen[ P03346] interacts with 56 human  
partners:{P25787;P28070;P25789;P55036;O43684;Q99460;Q9UM11;Q9UL46;P62987;P28072;P257  
88;P28074;P49721;O14818;Q99436;P0CG48;Q16401;Q9UM13;P28062;Q9NYG5;P20618;O00232;P516  
68;Q12834;O75832;O00233;Q9UJX6;Q13042;P51965;Q9UJX5;P49720;P28065;O00762;Q9UJX2;P609  
00;P25786;O00231;Q9UKT4;Q9UJX3;Q8NHZ8;P61289;Q9H1A4;P62979;P28066;Q9UNM6;Q9UJX4;P0CG  
47;Q13200;P48556;P51665;Q06323;P30260;Q92530;O43242;P40306;Q13257}

9622 Pathogen[ Q85601] interacts with 53 human  
partners:{Q9UJX2;P28066;Q9UNM6;P60900;P55036;Q9UJX6;P25787;P61289;P25788;Q9UKT4;Q8NH  
Z8;O75832;Q9H1A4;P0CG48;P51668;Q12834;Q13257;P25789;O00233;P20618;P40306;Q13042;Q9UJ  
X5;P51965;P49720;Q9UM13;P28062;P49721;Q9NYG5;P25786;O00762;P28072;Q9UJX3;Q13200;P280  
65;P62979;Q99436;P28070;Q9UJX4;Q9UM11;Q9UL46;Q99460;O00231;P0CG47;P48556;P28074;Q925  
30;P62987;Q06323;P30260;O14818;O43684;Q16401}

9623 Pathogen[ P14079] interacts with 57 human  
partners:{P28065;Q99436;P62333;P48556;P51965;P0CG48;Q9UKT4;P40306;Q9UJX3;P55036;P280  
74;O00232;Q9H1A4;Q9UJX5;P49720;O00487;P25787;O75832;P62979;O00233;P35998;P61289;P629  
87;P51665;P20618;Q9NYG5;P51668;Q8NHZ8;P28062;P60900;Q9UM11;Q9UM13;Q13042;Q9UNM6;Q132  
57;Q99460;O14818;P49721;Q92530;Q9UJX6;P30260;Q06323;P62191;O00762;Q15008;P43686;O432  
42;P25788;O00231;P28066;Q9UL46;P0CG47;Q16401;Q9UJX4;P17980;O43684;P28072}

9624 Pathogen[ P03383] interacts with 53 human  
partners:{Q13257;Q8NHZ8;P55036;P62987;Q9NYG5;P51965;Q9UJX6;P25789;P60900;P40306;O002  
33;O00762;P49721;Q06323;Q9UKT4;Q9H1A4;P20618;Q13042;Q12834;O75832;Q9UM13;O43684;Q9UM  
11;Q9UL46;Q9UNM6;P25786;Q99460;P28072;Q13200;P28065;P28066;Q9UJX4;Q16401;P62979;O002  
31;P0CG47;Q9UJX5;P0CG48;P28074;Q92530;P49720;P61289;Q9UJX2;P28062;P30260;P48556;O148  
18;Q9UJX3;Q99436;P28070;P51668;P25787;P25788}

9625 Pathogen[ P03410] interacts with 57 human  
partners:{Q9UKT4;P28070;P55036;P0CG48;O43684;Q9H1A4;P25786;Q15008;Q16401;P60900;P359  
98;P51965;Q99460;Q9UJX4;Q9NYG5;O00233;Q9UM13;O00232;Q8NHZ8;P48556;P49721;P62979;Q994  
36;P40306;Q06323;Q13200;P25787;Q9UM11;Q13042;P28062;P51665;O14818;P51668;Q9UJX5;O002  
31;Q9UNM6;Q12834;P30260;P25789;P49720;Q9UJX3;P62987;O00762;P28072;P25788;P28066;P280  
65;O43242;Q9UJX6;P0CG47;P17980;O75832;P20618;Q9UL46;P28074;P61289;Q13257}

9626 Pathogen[ P14075] interacts with 52 human  
partners:{P55036;P25788;Q13042;P28066;Q06323;O75832;Q9UKT4;P60900;Q9UM11;O00233;Q9UL  
46;P49720;P51965;Q13257;O43684;Q13200;P48556;Q16401;P28070;Q9UJX2;P49721;O00231;Q9UJ  
X6;Q8NHZ8;Q92530;P0CG48;P62979;O00762;P28062;P28074;Q9UJX5;P28065;P25786;P629  
87;P28072;Q9UJX4;P0CG47;P25787;P20618;Q9H1A4;Q9UNM6;Q9UM13;P30260;P61289;Q9UJX3;P403  
06;P51668;Q9NYG5;Q99436;Q12834;P25789}

9627 Pathogen[ P0C206] interacts with 55 human  
partners:{P61289;Q99436;P28062;Q9UNM6;P0CG48;O75832;P40306;P28065;Q9UJX3;P55036;P257  
86;P25788;P25787;Q9UJX5;Q9UJX2;Q06323;P49720;O00232;P60900;O43242;Q13257;P30260;P257  
89;P51965;Q9UKT4;Q9H1A4;Q9NYG5;Q9UJX4;P20618;Q13200;P28070;Q99460;P62979;P28066;Q9UM  
11;O00762;O14818;Q9UJX6;P0CG47;P28072;P28074;Q92530;P49721;O43684;P62987;Q9UM13;Q9UL

46;Q13042;P51668;O00233;P48556;Q16401;Q12834;Q8NHZ8;O00231}  
9628 Pathogen[ P03363] interacts with 22 human  
partners: {Q9UJX2;Q9NYG5;Q13042;P51965;O00762;Q92530;Q8NHZ8;Q9UJX3;P61289;Q9UJX5;P302  
60;Q9UJX6;Q9UM11;Q9UJX4;O43684;Q9UKT4;Q9H1A4;P62987;Q13257;P51668;Q9UM13;Q12834}  
9629 [Cluster 876]GO:0045793+P biological\_process [name] positive regulation of cell size  
[def] "Any process that increases cell size." [GOC  
9630 Pathogen[ Q2Q067] interacts with 2 human partners: {O15350;Q8TDY2}  
9631 Pathogen[ P0C214] interacts with 2 human partners: {O15350;Q8TDY2}  
9632 Pathogen[ P03346] interacts with 2 human partners: {Q8TDY2;O15350}  
9633 Pathogen[ Q85601] interacts with 2 human partners: {Q8TDY2;O15350}  
9634 Pathogen[ P14079] interacts with 2 human partners: {Q8TDY2;O15350}  
9635 Pathogen[ P03383] interacts with 2 human partners: {Q8TDY2;O15350}  
9636 Pathogen[ P03410] interacts with 2 human partners: {Q8TDY2;O15350}  
9637 Pathogen[ P14075] interacts with 2 human partners: {Q8TDY2;O15350}  
9638 Pathogen[ P0C206] interacts with 2 human partners: {Q8TDY2;O15350}  
9639 Pathogen[ P03363] interacts with 1 human partners: {Q8TDY2}  
9640 [Cluster 877]GO:0006260+P biological\_process [name] DNA replication [def] "The  
cellular metabolic process in which a cell duplicates one or more molecules of DNA. DNA  
replication begins when specific sequences, known as origins of replication, are  
recognized and bound by initiation proteins, and ends when the original DNA molecule has  
been completely duplicated and the copies topologically separated. The unit of  
replication usually corresponds to the genome of the cell, an organelle, or a virus. The  
template for replication can either be an existing DNA molecule or RNA." [GOC  
9641 Pathogen[ Q2Q067] interacts with 97 human  
partners: {P49454;Q9Y253;Q92900;Q15054;P52948;Q9NRF9;Q9BW66;Q7Z2Z1;Q99638;Q96E14;P276  
94;Q8WYH8;Q99741;Q13829;P08729;Q13111;Q9H211;P33316;Q01105;Q8NDF8;Q9NZJ0;P11387;O007  
12;Q5TKA1;P35244;Q9UBU7;O60318;Q96S55;Q9UNA4;O14757;P49789;Q9UNL4;Q96ST3;Q9UBZ9;P490  
05;Q13415;P38935;P30304;P11388;Q09028;Q9Y248;Q13112;P12004;Q14181;P06746;Q14691;Q150  
04;P30307;Q14938;P31350;Q9UBD5;P15927;Q9BVC3;P0CW71;Q7LG56;P56282;Q8WXE1;Q9HCU8;O754  
19;A6NCL1;P20962;P39748;Q6WBX8;Q99543;O75943;P54098;Q7L590;O43913;Q14686;P04818;Q9Y5  
N6;Q13416;Q3YBR2;Q9UHN1;P25205;P35251;Q96PK6;Q9H9A7;P24941;P49321;Q9BRT9;P35232;Q9Y5  
B9;Q16576;Q04837;O75792;Q12857;O60870;Q9HAW4;Q9BTE3;Q66K89;O60671;P55209;O60921;Q76F  
K4;Q08945;P08651}  
9642 Pathogen[ P0C214] interacts with 99 human  
partners: {P08729;A6NCL1;P30307;P04818;P31350;Q96S55;Q8NDF8;Q8WXE1;P49789;P06746;O439  
13;P54098;Q13829;Q92900;Q7L590;P33316;Q13112;Q13111;Q9UBZ9;O60318;Q9UNL4;P35251;Q6WB  
X8;P49005;Q9UBU7;Q14686;P38935;Q9HAW4;Q14938;Q9HCU8;Q9Y5N6;O75792;Q01105;Q9Y248;P252  
05;Q09028;Q9BTE3;Q9BW66;O60921;Q9H9A7;Q14566;O60870;O00712;Q9UNA4;P0CW71;Q9NZJ0;Q146  
91;P15927;P24941;P49321;Q8WZ19;Q76FK4;Q16576;Q9BVC3;P35244;Q9Y5B9;P11388;Q96PK6;Q150  
04;Q9NRF9;O95251;Q9H211;P23921;Q3YBR2;O75943;P11387;O60671;Q12857;O60671;P20962;P397  
48;Q15054;Q96ST3;Q13416;Q08945;P27694;Q99543;Q5TKA1;P08651;Q8WYH8;O14757;P35232;Q7LG  
56;Q99638;P49454;Q04837;P30304;P56282;Q96E14;Q9Y253;Q66K89;Q9UBD5;Q7Z2Z1;P52948;Q997  
41;Q13415;Q14181;Q9UHN1;Q9BRT9}  
9643 Pathogen[ P03346] interacts with 111 human  
partners: {O60921;Q9NZJ0;Q96ST3;P12004;Q9Y253;P08729;P46063;Q9BRX5;P38935;Q7Z5Q5;Q7Z2  
Z1;Q9HCU8;Q5XG87;Q8WZ19;Q99543;Q9UNL4;P54098;Q8WYH8;P11388;P27694;Q12857;Q9Y5N6;Q146  
91;Q01105;Q9UNA4;Q9UBD5;P35244;Q15004;Q6WBX8;Q9BRT9;Q9UBZ9;P35250;P24941;P30304;P562  
82;O00712;O60318;P49789;O14757;Q9UBU7;Q9UHN1;P49005;Q99638;Q9NRF9;P49321;Q13829;Q66K  
89;Q08945;O75943;Q9H9A7;Q14566;P25205;O60870;Q9HAW4;P31350;Q7LG56;Q96S55;P0CW71;O952  
51;Q9Y248;Q09028;P08651;Q8WXE1;Q3YBR2;A6NCL1;Q9Y5B9;P33992;Q13111;Q13415;Q96E14;Q165  
76;P15927;Q9BW66;P35249;P0CG13;Q14181;Q8NDF8;P33991;Q5TKA1;Q13416;P35232;Q9BVC3;O606  
71;P35251;P20962;P39748;Q13112;P29558;O75419;Q92900;Q04837;P55209;P40937;Q99741;P067  
46;Q7L590;Q9H211;O43929;Q96PK6;Q9BTE3;O43913;Q14938;Q15054;P30307;P49454;P11387;Q76F  
K4;O75792;Q14686;P33316;P52948}  
9644 Pathogen[ Q85601] interacts with 102 human  
partners: {Q3YBR2;Q99543;P49454;P08729;O43913;Q96PK6;Q7L590;Q9BTE3;Q7Z2Z1;Q8WZ19;Q150  
04;Q8WXE1;P49789;P08651;O95251;P56282;Q12857;P38935;Q01105;Q13112;P35244;Q13415;Q9Y5  
N6;O60318;Q9NZJ0;Q9UNL4;O75792;P33316;Q9UBU7;Q9Y248;Q9Y5B9;Q9UBD5;Q9UGP5;P49005;P303  
04;Q9BW66;P49321;Q15054;P31350;P27694;Q9NRF9;O14757;O75943;P11387;Q14566;Q9H9A7;Q146  
86;Q9BRT9;O60870;Q9BVC3;P30307;Q5XG87;Q7LG56;P54098;P25205;P15927;Q9HAW4;Q16576;Q9UB  
Z9;Q76FK4;O60921;P52948;P35251;P11388;Q9UBT6;Q14691;Q14181;Q09028;Q8NDF8;Q9HCU8;O606  
71;Q8WYH8;Q96S55;Q5TKA1;Q13416;Q08945;Q6WBX8;P35232;P06746;P12004;Q66K89;P33992;P209  
62;Q13111;O00712;P39748;Q13829;O75419;Q92900;Q04837;P55209;Q99741;Q9H211;Q9UHN1;Q96E  
14;Q9Y253;P24941;Q9UNA4;Q99638;Q14938;A6NCL1;Q96ST3}  
9645 Pathogen[ P14079] interacts with 113 human  
partners: {O60671;Q04837;Q9Y5B9;P11388;Q01105;Q13416;Q9BRT9;Q15513;Q08945;Q7L590;Q9UN  
A4;O75419;P30307;Q14566;P20962;Q13415;A6NCL1;Q14938;Q9UGP5;Q9Y5N6;P40937;Q96ST3;Q6WB  
X8;O75792;P49005;O43913;Q14691;O95251;Q9H211;Q5XG87;Q9UNL4;Q8WXE1;Q96LW4;Q9BWE0;P087  
29;P35232;Q9HCU8;Q9UBZ9;Q13112;Q13111;Q7Z7C7;P31350;Q9BTE3;O60870;Q9H9A7;P33316;P303  
04;Q16576;Q7LG56;P0CW71;P08651;Q99741;Q99543;Q15054;Q9HAW4;P35250;Q9NRF9;O75943;P552  
09;O60318;Q9UBD5;Q9BW66;Q7Z5Q5;Q96S55;P56282;Q66K89;P35251;Q9BVC3;Q9Y248;P49642;Q9NS  
U2;Q14181;O43929;P33992;P06746;P15927;Q9Y253;P27694;Q3YBR2;Q92900;Q99638;P49454;Q9NZ  
J0;P38935;P12004;P49321;Q13829;P54098;Q15004;Q9UHN1;Q09028;P49789;P35244;Q96E14;Q5TK  
A1;Q7Z2Z1;Q12857;Q969P6;P04818;Q9UBT6;P25205;Q14686;O60921;Q96PK6;Q8WYH8;Q9BRX5;Q9UB  
U7;Q4G0Z9;P49917;P39748;P52948;P0CG13;O00712}  
9646 Pathogen[ P03383] interacts with 85 human



partners:{P30307;Q09028;Q9Y253;Q9UHN1;P08729;P49454;Q9UBD5;O14757;Q01105;O60671;P06746;Q9HCU8;Q9NZJ0;Q8WXE1;P49789;O75792;O95251;Q7L590;Q14181;P52948;P27694;Q15004;P25205;Q9BTE3;Q14686;P30304;O00712;O60318;Q8NDF8;Q9UNL4;Q5TKA1;Q08945;Q8WYH8;P11387;P49321;P49005;Q96S55;Q9Y248;P55209;P31350;Q66K89;O60921;O43913;Q6WBX8;P56282;Q9H9A7;P08651;O60870;P15927;Q96PK6;Q7Z2Z1;Q13111;Q12857;P20962;P54098;Q9Y5N6;Q9HAW4;P24941;P0CW71;P35244;Q9BRT9;Q9UBZ9;Q15054;P35232;Q96E14;Q99543;O75419;Q99638;Q13416;Q9BW66;P33316;Q96ST3;P38935;Q14691;Q3YBR2;Q13829;Q04837;Q9BVC3;Q92900;Q13112;Q9Y5B9;Q9H211;Q16576;Q99741;P35251}

9647 Pathogen[ P03410] interacts with 117 human partners:{Q9BWE0;Q08945;P49321;P35244;P25205;Q13829;Q8WYH8;O43929;P31350;Q96LW4;Q96PK6;O75943;Q14181;Q13416;Q66K89;Q92900;O95251;Q9Y5B9;Q04837;O75419;Q9UBT6;Q14686;Q14938;Q76FK4;P52948;O75792;Q9UNA4;Q12857;Q9BTE3;Q6WBX8;O60870;Q8WZ19;Q9UNL4;Q8WXE1;Q15513;Q4G0Z9;Q9HAW4;P06746;Q9H211;Q96S55;Q01105;Q15004;Q5TKA1;P39748;P56282;Q9NSU2;Q96ST3;Q9BRT9;O00712;P33992;Q16576;P49454;P33316;Q7Z5Q5;P08651;Q9UGP5;Q9UBZ9;P38935;P35251;P49789;Q09028;P0CG13;P04818;P30304;P24941;Q99638;Q9Y253;P0CW71;Q13111;Q9UBU7;Q13112;Q7Z7C7;P11387;Q3YBR2;Q9H9A7;Q15054;Q9BVC3;Q9NRF9;Q5XG87;O14757;O60671;O60921;Q7Z2Z1;Q7L590;P20962;P11388;O60318;Q9Y248;Q9BRX5;P55209;Q96E14;P49005;P27694;P15927;Q14691;P35250;P08729;Q9Y5N6;Q99543;P35232;O43913;P40937;Q14566;P23921;Q9UHN1;P12004;Q9UBD5;P54098;P30307;Q7LG56;A6NCL1;P49642;Q9HCU8;Q9BW66;Q9NZJ0;Q13415;Q99741}

9648 Pathogen[ P14075] interacts with 87 human partners:{P49321;P11387;Q96ST3;P08729;Q16576;Q96E14;P54098;Q9H211;Q92900;Q7Z2Z1;P31350;P24941;Q9UBZ9;Q8WXE1;Q14938;Q8NDF8;Q08945;Q14686;Q9Y5N6;Q9UBD5;P38935;O75419;P06746;O60671;Q99543;P49005;Q9BW66;Q13111;P15927;Q01105;Q14691;P20962;Q9Y248;Q3YBR2;P55209;Q9BTE3;P35232;Q99638;O60870;Q9BVC3;Q5TKA1;Q09028;Q12857;Q9HAW4;P35244;Q9Y253;Q96PK6;P0CW71;P25205;Q9Y5B9;P35251;Q15054;O95251;P08651;P30304;P33316;Q9BRT9;O43913;P27694;Q66K89;O60921;Q9UNL4;O75792;Q9UHN1;Q15513;P49789;O00712;Q13416;Q9HCU8;P56282;Q96S55;Q8WYH8;Q13829;Q9NZJ0;Q13112;Q14181;Q7L590;Q04837;P49454;Q9H9A7;P30307;Q6WBX8;Q15004;O14757;Q7Z7C7;P52948}

9649 Pathogen[ P0C206] interacts with 111 human partners:{Q15513;P33316;Q13112;Q9Y253;Q8WXE1;Q13829;Q5XG87;Q9BTE3;Q9UHN1;Q96ST3;P38935;O95251;Q9NRF9;Q9NSU2;P35251;P30307;Q9UBT6;Q9Y248;P08651;Q9UNA4;Q9HCU8;O75419;Q8WYH8;P25205;A6NCL1;O43913;Q7Z5Q5;Q13111;O60870;P08729;Q6WBX8;P06746;P54098;Q9UBD5;O60318;Q9Y5B9;Q7LG56;Q13416;P20962;P49454;P49005;P49321;P49642;Q5TKA1;Q99741;Q96E14;Q9BRT9;Q14938;Q9BW66;Q9UGP5;O75943;Q12857;Q99638;Q7Z7C7;P49917;Q15054;Q8WZ19;O00712;Q14181;Q9UBU7;P35232;Q14691;Q99543;P49789;O75792;Q9H211;Q96PK6;Q14686;Q76FK4;Q8NDF8;Q9Y5N6;P49916;Q96S55;O60921;Q9H9A7;Q9UBZ9;P55209;P0CW71;Q9NCL1;P04818;P30304;Q92900;Q04837;O60671;Q16576;P56282;Q13415;Q7Z2Z1;P0CG13;P27694;Q09028;P11388;P15927;P11387;P39748;P35244;Q66K89;Q3YBR2;Q9HAW4;Q15004;Q01105;P24941;Q08945;Q14566;Q9BVC3;Q9BRX5;P33992;Q9UNL4;P31350;P12004;Q7L590}

9650 Pathogen[ P03363] interacts with 98 human partners:{Q3YBR2;Q13112;Q9H9A7;Q14691;P49454;P27694;Q9HAW4;Q14938;O00712;P33316;P49321;Q92900;Q99543;Q9BTE3;P11387;Q7Z2Z1;P08651;Q09028;P25205;Q9NRF9;Q13111;Q9BRX5;Q5TKA1;Q9Y253;O60671;P29558;P35251;Q66K89;Q9BVC3;P49005;P24941;Q14181;P35244;Q14686;P15927;Q96PK6;P54098;P33992;Q9UNL4;O75792;P30304;Q9HCU8;Q16576;Q13416;Q13415;Q9Y5B9;P46063;P20962;P0CG13;Q9BW66;Q96E14;P55209;Q8NDF8;P06746;Q99741;Q96ST3;O60318;Q7Z5Q5;O60870;Q15004;Q9H211;A6NCL1;P49789;Q6WBX8;Q4G0Z9;P08729;Q96S55;P0CW71;Q99638;Q13829;Q08945;O60921;Q04837;P35232;Q15054;Q7L590;P52948;Q9UHN1;Q9UNA4;Q8WZ19;Q9Y248;Q01105;Q9UBD5;Q9UBZ9;P30307;Q9NZJ0;O75943;O95251;Q9Y5N6;Q9BRT9;Q12857;Q76FK4;Q8WYH8;P38935;O75419;Q8WXE1;O14757;O43913}

9651 [Cluster 878]GO:0000301+P biological\_process [name] retrograde transport, vesicle recycling within Golgi [def] "The retrograde movement of substances within the Golgi, mediated by COP I vesicles. Cis-Golgi vesicles are constantly moving forward through the Golgi stack by cisternal progression, eventually becoming trans-Golgi vesicles. They then selectively transport membrane and luminal proteins from the trans- to the medial-Golgi while leaving others behind in the trans-Golgi cisternae\_ similarly, they selectively move proteins from the medial- to the cis-Golgi." [ISBN

9652 Pathogen[ Q2Q067] interacts with 1 human partners:{P39880}

9653 Pathogen[ P0C214] interacts with 1 human partners:{P39880}

9654 Pathogen[ P03346] interacts with 1 human partners:{P39880}

9655 Pathogen[ Q85601] interacts with 1 human partners:{P39880}

9656 Pathogen[ P14079] interacts with 1 human partners:{P39880}

9657 Pathogen[ P03383] interacts with 1 human partners:{P39880}

9658 Pathogen[ P03410] interacts with 1 human partners:{P39880}

9659 Pathogen[ P14075] interacts with 1 human partners:{P39880}

9660 Pathogen[ P0C206] interacts with 1 human partners:{P39880}

9661 Pathogen[ P03363] interacts with 1 human partners:{P39880}

9662 [Cluster 879]GO:0001867+P biological\_process [name] complement activation, lectin pathway [def] "Any process involved in the activation of any of the steps of the lectin pathway of the complement cascade which allows for the direct killing of microbes and the regulation of other immune processes." [GOC

9663 Pathogen[ Q2Q067] interacts with 1 human partners:{P04264}

9664 Pathogen[ P0C214] interacts with 1 human partners:{P04264}

9665 Pathogen[ P03346] interacts with 1 human partners:{P04264}

9666 Pathogen[ Q85601] interacts with 1 human partners:{P04264}

9667 Pathogen[ P14079] interacts with 1 human partners:{P04264}

9668 Pathogen[ P03383] interacts with 1 human partners:{P04264}

9669 Pathogen[ P03410] interacts with 1 human partners:{P04264}  
9670 Pathogen[ P14075] interacts with 1 human partners:{P04264}  
9671 Pathogen[ P0C206] interacts with 1 human partners:{P04264}  
9672 Pathogen[ P03363] interacts with 1 human partners:{P04264}  
9673 [Cluster 880]GO:0045898+P biological\_process [name] regulation of RNA polymerase II transcriptional preinitiation complex assembly [def] "Any process that modulates the frequency, rate or extent of RNA polymerase II transcriptional preinitiation complex assembly." [GOC  
9674 Pathogen[ Q2Q067] interacts with 1 human partners:{Q6VMQ6}  
9675 Pathogen[ P0C214] interacts with 1 human partners:{Q6VMQ6}  
9676 Pathogen[ P03346] interacts with 1 human partners:{Q6VMQ6}  
9677 Pathogen[ Q85601] interacts with 1 human partners:{Q6VMQ6}  
9678 Pathogen[ P14079] interacts with 1 human partners:{Q6VMQ6}  
9679 Pathogen[ P03383] interacts with 1 human partners:{Q6VMQ6}  
9680 Pathogen[ P03410] interacts with 1 human partners:{Q6VMQ6}  
9681 Pathogen[ P14075] interacts with 1 human partners:{Q6VMQ6}  
9682 Pathogen[ P0C206] interacts with 1 human partners:{Q6VMQ6}  
9683 Pathogen[ P03363] interacts with 1 human partners:{Q6VMQ6}  
9684 [Cluster 881]GO:0006364+P biological\_process [name] rRNA processing [def] "Any process involved in the conversion of a primary ribosomal RNA (rRNA) transcript into one or more mature rRNA molecules." [GOC  
9685 Pathogen[ Q2Q067] interacts with 84 human partners:{Q9H583;O43463;Q9Y3A2;P62312;Q9NQ4;Q9Y324;P56182;Q9UQ80;P22087;Q5TAP6;Q9GZL7;Q99547;Q9H5Q4;O43159;Q14690;P46087;Q9Y2L1;Q9UJK0;Q8WVM0;Q06265;Q14684;Q9NV31;Q13868;P38919;O00566;Q13601;Q96G21;Q9Y237;A6NHQ2;Q96HR8;Q9H6R4;O00541;Q9Y3B2;Q9NPD3;Q9NE3;Q8N726;Q92979;P18077;Q9H6Y2;O75607;Q14137;Q5RKV6;Q9Y3A5;P62081;Q9BVI4;P61254;P62249;Q9H9Y2;O60832;Q14978;Q15024;P46777;P08708;P62913;Q96EU6;Q9Y4W2;Q9BVJ6;O00567;P57678;Q8N0V3;P62857;P78316;P62847;Q9NY12;Q9UI43;Q13901;Q9Y2X3;Q8TED0;P39019;Q9BRU9;P62841;Q9UNQ2;Q9Y2W2;Q969E8;O95707;P50914;Q14331;P62753;P18124;Q8IY81;Q96B26;Q76FK4;O95478;O75691}  
9686 Pathogen[ P0C214] interacts with 88 human partners:{Q9BVJ6;Q9Y2W2;P62312;O75691;Q9UJK0;P62081;Q9NV31;P62913;Q15024;Q14331;Q9H6Y2;Q9NPE3;P62249;Q95478;Q969E8;P39019;P46087;O43159;P18077;Q9Y2L1;P62847;Q9H0S4;O00541;Q96EU6;A6NHQ2;P57678;Q9Y3B2;Q9GZL7;O00567;Q9UNQ2;Q9BVI4;Q96G21;O75607;P22087;Q8N726;Q9H6Y2;Q9H6R4;Q13901;Q99547;Q9NY12;O43463;Q9UET6;P50914;Q9BRU9;O95707;Q9Y237;Q9NPD3;Q14978;Q14137;Q92979;Q9Y324;P38919;P62753;Q76FK4;Q9UI43;Q9Y4W2;Q8IV48;Q8IY81;Q13868;Q14690;P61254;Q8TED0;Q5TAP6;P62841;O60832;P46777;Q9H9Y2;Q14684;P56182;Q8WVM0;P62857;Q8N0V3;P08708;O00566;Q13601;Q9UQ80;Q06265;Q9Y3A5;P18124;Q9NQ4;Q96B26;Q9Y2X3;Q9H583;Q9NV06;Q9H5Q4;Q96HR8;Q9Y3A2}  
9687 Pathogen[ P03346] interacts with 94 human partners:{Q9BVJ6;O75691;Q9Y3A2;Q5RKV6;P62249;P62913;Q92979;Q9Y324;O00567;Q5TAP6;O00541;Q9UQ80;P62857;A6NHQ2;P56182;O43159;Q9GZL7;O95707;P61254;P38919;Q9H583;Q96G21;O60832;Q9NYH9;Q96B26;O43818;Q9Y3B2;O43463;Q9BVI4;O00566;P08708;Q15024;Q9UNQ2;Q9NV06;Q9Y2X3;Q14978;Q9Y237;Q9NX24;Q96EU6;Q9BRU9;Q8N0V3;Q9NV31;P46087;P78316;P62081;Q9Y2L1;Q9H5Q4;Q9H6Y2;Q9NQ4;P50914;Q14684;P42285;Q8IY81;P39019;Q8WVM0;O75607;Q9H0S4;Q14137;P62847;P57678;Q12788;Q99547;Q9NPE3;P22087;P46777;Q06265;Q8NI36;P62841;Q13601;Q8N726;Q9NY12;Q969E8;Q9UI43;P18077;Q9Y2W2;Q96HR8;Q14690;Q9Y5J1;O95478;Q9NQ4;Q9UJK0;Q8TED0;P62312;P62753;Q9NPD3;Q9Y4W2;P18124;Q13901;Q13868;Q9H9Y2;Q9Y3A5;Q76FK4;Q14331;Q9H6R4}  
9688 Pathogen[ Q85601] interacts with 85 human partners:{Q9NV31;Q14978;Q5RKV6;Q9BRU9;P62857;P46087;P62913;Q9UJK0;Q9NPD3;O00541;Q9Y2W2;P62081;Q9Y324;Q9H0S4;Q8N0V3;Q9UQ80;P18077;O75691;Q99547;Q96HR8;Q14331;Q92979;Q9Y4W2;Q96EU6;A6NHQ2;Q14684;Q9H9Y2;P62753;Q9BVJ6;Q13868;Q9Y3A5;Q9Y3A2;P39019;Q96G21;O43159;Q14690;Q9H6Y2;O43463;Q9Y2L1;O75607;O95707;P38919;P61254;P62249;Q8TED0;Q13901;Q8N726;Q9UI43;P08708;Q969E8;Q9NQ4;Q9Y3B2;Q76FK4;P62312;Q9UET6;Q15024;O00566;O95478;Q8IY81;Q13601;Q06265;P62847;Q9GZL7;Q9NV06;Q9NPE3;O00567;P22087;Q9H5Q4;P62841;Q8WVM0;P56182;Q9NY12;Q9H6R4;Q14137;Q9BVI4;Q9H583;Q9Y2X3;Q9Y237;Q96B26;O60832;P46777;P18124;P50914;P78316;Q9UNQ2}  
9689 Pathogen[ P14079] interacts with 86 human partners:{Q8IV48;Q92979;P57678;Q9H0S4;Q9Y3B2;Q9NV31;Q9NPE3;Q9UI43;Q9Y2X3;Q9Y2W2;O75691;Q9Y3A2;Q9Y237;Q9UNQ2;P62847;Q15024;P62753;Q9BRU9;O60832;Q13901;Q9GZL7;Q8TED0;P18077;Q9NQ4;Q13868;Q8N726;Q9NPD3;P61254;P50914;Q969E8;P62312;Q9Y3A5;Q9UJK0;Q8N0V3;A6NHQ2;Q96HR8;P62841;P18124;O95707;Q5TAP6;Q8IY81;P22087;Q9BVJ6;Q9BVI4;O00567;Q9H6R4;P39019;O00566;Q9NV06;Q9NYH9;Q9H583;P56182;Q5RKV6;Q9NY12;P08708;Q9UET6;P46087;P78316;Q9Y4W2;Q14684;Q9Y2L1;Q9Y324;O95478;Q13601;P62081;P46777;Q9H9Y2;Q96AZ6;O43159;Q14331;Q96B26;O00541;O75607;Q14137;Q96G21;Q9H5Q4;P62249;P62913;Q99547;Q9UQ80;Q06265;Q14690;Q14978;Q8WVM0;Q96EU6;P62857}  
9690 Pathogen[ P03383] interacts with 81 human partners:{Q06265;O95478;Q14978;P39019;Q13601;Q9Y2L1;Q99547;P62913;Q9Y324;Q9BVJ6;Q9H0S4;O00567;P62312;P62249;Q5TAP6;O00541;P46777;Q9H6Y2;O43463;Q8N0V3;P18124;P62753;Q9UNQ2;P38919;Q9H5Q4;O75691;Q14331;Q9NPE3;Q9UI43;Q14690;Q9H6R4;Q9Y2W2;Q14684;Q9Y3B2;Q9Y3A2;Q96G21;O43159;O95707;P18077;Q9UET6;P62081;O75607;Q9UJK0;Q9H583;Q9NV31;Q9NPD3;Q969E8;Q9BVI4;Q9NQ4;Q8IY81;P78316;Q9NY12;Q96B26;Q8WVM0;Q9Y3A5;Q96HR8;P62857;P46087;Q9BRU9;Q5RKV6;P61254;Q9UQ80;Q9GZL7;Q9Y2X3;P56182;P57678;Q96EU6;Q92979;P62841;P62847;P50914;P22087;Q14137;Q13868;O60832;Q15024;Q9Y4W2;Q13901;O00566;Q8N726;P08708}  
9691 Pathogen[ P03410] interacts with 94 human partners:{Q969E8;Q9Y2L1;P22087;Q9BVI4;P78316;Q9UJK0;P62913;Q8IV48;Q14684;Q8N726;Q9NV

- 06;P46777;P62841;Q96G21;Q9UQ80;P18124;Q06265;Q76FK4;Q5RKY6;Q14978;A6NHQ2;Q13868;P62847;Q9NYH9;O60832;P62249;P50914;Q14137;Q9H0S4;Q9GZL7;O43159;Q5TAP6;Q9Y2X3;Q9BRU9;Q92979;Q9NX24;P18077;Q9UNQ2;Q9Y2W2;Q9Y4W2;O00567;Q95707;Q96B26;O43818;Q9H9Y2;P62081;Q9H6R4;Q15024;Q96AZ6;Q9NY12;P08708;Q9H5Q4;P38919;Q9NQT4;P56182;Q99547;Q13901;P46087;Q8WVMO;Q9UI43;Q9NPE3;P57678;Q9BVJ6;O00541;Q96EU6;P62857;Q96HR8;Q8IY81;P61254;Q9Y324;Q9NP D3;Q13601;Q95478;O43463;Q9Y3A2;Q9NV31;P39019;P62312;O75691;Q9H583;Q8N0V3;Q8TED0;Q9Y3A5;Q9Y237;Q9Y5J1;Q9UET6;P62753;O00566;Q9H6Y2;Q14690;Q12788;Q14331;O75607;Q9Y3B2}
- 9692 Pathogen[ P14075] interacts with 82 human  
partners: {O00566;P62857;Q9H5Q4;Q9H583;Q14690;P62913;Q969E8;Q8N0V3;O75607;Q92979;Q9H6R4;Q9NPD3;Q9H0S4;P08708;P57678;Q9UET6;Q13901;P61254;Q9GZL7;O00541;P46777;P56182;P62249;Q13601;Q8IY81;P62081;O00567;Q9H6Y2;P18124;Q9BRU9;Q9Y2L1;P78316;Q9UI43;Q96HR8;Q13868;P62312;Q9NQT4;O75691;Q9NPE3;Q9Y2W2;P62753;Q14684;P18077;Q9NV31;Q9UNQ2;P50914;P62847;Q5RKY6;P22087;P46087;Q9UJK0;Q96B26;P62841;Q96EU6;Q9Y4W2;O60832;Q9H9Y2;Q9Y324;Q96G21;Q9UQ80;O43159;O95478;Q99547;Q9BVI4;O43463;Q14137;Q15024;Q8WVM0;Q14331;Q9BVJ6;P38919;Q9Y3A2;Q9NY12;O95707;P39019;Q06265;Q9Y2X3;Q9Y3B2;Q14978;Q8N726;Q5TAP6;Q9Y3A5}
- 9693 Pathogen[ POC206] interacts with 90 human  
partners: {Q9H0S4;Q8N0V3;Q9NPE3;A6NHQ2;Q13601;Q96G21;O43159;O95478;Q9BVI4;P18124;Q9UI43;Q9Y324;Q96EU6;Q8N726;P62081;Q14137;Q9NY12;O75607;Q14690;Q9NPD3;Q5RKY6;P50914;Q13868;Q9GZL7;Q8IY48;O43463;O00567;Q9H6Y2;Q9UET6;Q96B26;P62857;P78316;Q8WVM0;P18077;Q9NYH9;Q9H583;P62913;Q9UNQ2;Q9H6R4;Q99547;Q9Y2X3;Q92979;Q9Y5J1;Q06265;O95707;Q9NV06;Q8TE D0;P46777;Q76FK4;Q9UJK0;Q9BRU9;Q15024;Q13901;P56182;Q9Y2L1;P39019;O60832;Q96HR8;P62841;O00541;Q9Y3B2;Q9NV31;P46087;Q9Y237;O75691;Q9H5Q4;Q9Y3A5;Q969E8;P22087;Q9H9Y2;P62312;Q9UQ80;Q14331;Q9NQT4;P38919;P62753;Q9Y2W2;P08708;Q9Y3A2;Q9Y4W2;Q8IY81;Q5TAP6;P62847;P61254;O00566;Q14684;Q14978;P62249;Q9BVJ6;P57678}
- 9694 Pathogen[ P03363] interacts with 91 human  
partners: {Q96B26;O60832;P62913;Q9UNQ2;Q9NX24;Q9NQT4;Q14978;Q92979;Q5RKY6;Q9BVJ6;Q9Y2W2;Q9BRU9;P38919;Q96EU6;P46087;P62847;Q9Y2X3;P18077;Q9GZL7;Q8N0V3;P62249;Q9Y4W2;O75607;P62753;P62312;P62081;Q9Y324;Q14331;O95478;Q9H9Y2;Q15024;Q99547;P56182;Q9Y3B2;P61254;Q9NY12;Q9Y3A5;O00567;Q9NV31;Q13901;Q9UET6;P08708;Q13601;Q9UQ80;Q969E8;Q9NPD3;O75691;Q9H0S4;O43818;Q9UJK0;O95707;P57678;Q14684;Q14690;P62841;Q9Y5J1;Q8IY81;P50914;Q9NPE3;P22087;Q5TAP6;Q9Y2L1;P39019;Q14137;O00566;P46777;Q96G21;Q13868;Q9H583;Q9Y237;Q8WVMO;Q8N726;Q9NQT5;O43159;O43463;Q9H6R4;Q9Y3A2;P78316;P62857;Q9H6Y2;Q9UI43;O00541;P18124;Q9NV06;Q76FK4;Q96HR8;Q9BVI4;Q8TED0;A6NHQ2;Q9H5Q4;P42285}
- 9695 [Cluster 882]GO:0007131+P biological\_process [name] reciprocal meiotic recombination [def] "The cell cycle process in which double strand breaks are formed and repaired through a double Holliday junction intermediate. This results in the equal exchange of genetic material between non-sister chromatids in a pair of homologous chromosomes. These reciprocal recombinant products ensure the proper segregation of homologous chromosomes during meiosis I and create genetic diversity." [PMID
- 9696 Pathogen[ Q2Q067] interacts with 9 human  
partners: {P49959;Q9UHC1;Q06609;O43502;Q9BQ90;P54278;O60216;A1L190;P43351}
- 9697 Pathogen[ POC214] interacts with 12 human  
partners: {P43351;A8MQ11;Q06609;P49959;A1L190;P20585;Q9UHC1;O43502;P54278;P40692;O60216;Q9BQ90}
- 9698 Pathogen[ P03346] interacts with 13 human  
partners: {Q06609;O43502;Q9BQ90;Q9UHC1;O15315;P20585;O75771;P49959;P43351;P54278;A1L190;O60216;P54277}
- 9699 Pathogen[ Q85601] interacts with 13 human  
partners: {P43351;O43502;O15315;A8MQ11;P49959;O60216;Q9BQ90;P20585;P54278;Q9UHC1;P40692;Q06609;A1L190}
- 9700 Pathogen[ P14079] interacts with 17 human  
partners: {O43196;O15315;P20585;Q9BQ90;P40692;P54278;O60216;Q9UHC1;Q7Z7C7;A8MQ11;O95744;O43502;P54277;P52701;Q06609;A1L190;P43351}
- 9701 Pathogen[ P03383] interacts with 7 human  
partners: {P43351;Q06609;P54278;Q9UHC1;O60216;A1L190;Q9BQ90}
- 9702 Pathogen[ P03410] interacts with 18 human  
partners: {P49959;P40692;P20585;O15315;P54277;P43351;O60216;P52701;O43502;Q7Z7C7;O95744;O43196;A8MQ11;P54278;A1L190;Q9BQ90;Q9UHC1;Q06609}
- 9703 Pathogen[ P14075] interacts with 8 human  
partners: {P43351;A1L190;Q9UHC1;P54278;O60216;Q06609;Q7Z7C7;Q9BQ90}
- 9704 Pathogen[ POC206] interacts with 17 human  
partners: {O43502;O60216;P54278;P49959;A1L190;P52701;P40692;Q9UHC1;A8MQ11;P54277;P43351;Q7Z7C7;O15315;P49916;Q9BQ90;Q06609;P20585}
- 9705 Pathogen[ P03363] interacts with 12 human  
partners: {Q9UHC1;Q9BQ90;P20585;P54278;P54277;P43351;O75771;Q06609;A1L190;O60216;O43502;O15315}
- 9706 [Cluster 883]GO:0007548+P biological\_process [name] sex differentiation [def] "The establishment of the sex of an organism by physical differentiation." [GOC
- 9707 Pathogen[ Q2Q067] interacts with 11 human  
partners: {Q05066;Q5VZB9;Q96MA1;Q8IXT2;Q9Y5R5;Q96SC8;Q92674;Q92600;Q14781;Q01534;P40424}
- 9708 Pathogen[ POC214] interacts with 7 human  
partners: {P40424;Q01534;Q5VZB9;Q92674;Q14781;Q92600;Q9Y5R5}
- 9709 Pathogen[ P03346] interacts with 14 human  
partners: {Q14781;Q01534;Q05066;Q92674;Q9Y5R5;O43680;Q8IXT2;Q9Y5R6;Q96MA1;Q96SC8;P40424;Q9NQL9;Q5VZB9;Q92600}

- 9710 Pathogen[ Q85601] interacts with 10 human  
partners: {Q8IXT2;Q96MA1;Q96SC8;Q01534;Q92600;Q92674;P40424;Q5VZB9;Q9Y5R5;Q14781}
- 9711 Pathogen[ P14079] interacts with 9 human  
partners: {Q96SC8;Q92600;Q01534;Q8IXT2;Q9Y5R5;Q14781;Q5VZB9;Q96MA1;Q92674}
- 9712 Pathogen[ P03383] interacts with 6 human  
partners: {Q9Y5R5;P40424;Q92600;Q01534;Q92674;Q14781}
- 9713 Pathogen[ P03410] interacts with 9 human  
partners: {Q01534;Q92674;Q5VZB9;Q96SC8;Q96MA1;Q92600;Q14781;P40424;Q8IXT2}
- 9714 Pathogen[ P14075] interacts with 6 human  
partners: {Q14781;Q9Y5R5;P40424;Q92674;Q92600;Q01534}
- 9715 Pathogen[ P0C206] interacts with 12 human  
partners: {Q9Y5R6;Q05066;Q14781;P40424;Q96MA1;Q01534;Q92674;Q5VZB9;Q8IXT2;Q9Y5R5;Q92600;Q96SC8}
- 9716 Pathogen[ P03363] interacts with 12 human  
partners: {Q92674;Q14781;Q96SC8;Q9Y5R6;Q05066;Q96MA1;Q8IXT2;Q9Y5R5;Q92600;Q01534;P40424;Q5VZB9}
- 9717 [Cluster 884]GO:0051437+P biological\_process [name] positive regulation of ubiquitin-protein ligase activity involved in mitotic cell cycle [def] "Any process that activates, maintains or increases the rate of ubiquitin ligase activity that contributes to the mitotic cell cycle." [GOC
- 9718 Pathogen[ Q2Q067] interacts with 61 human  
partners: {Q99460;O75832;P48556;P40306;P55036;O00231;O00233;Q9UJX3;Q9UJX5;P51665;P28072;O00762;A5LHX3;Q13200;P25787;Q06323;Q9NYG5;Q9H1A4;P51965;P28065;O14818;P14635;Q9UJX2;Q9Y297;Q9UM13;Q14997;P60900;Q9UL46;P61289;Q12834;P51668;P28062;Q9UNM6;P25788;Q13616;Q92530;P25786;Q8NHZ8;Q16401;O00232;Q9UM11;Q9UJX4;P28074;P25789;Q9UKT4;P0CG47;P20618;P0CG48;P28070;P28066;Q99436;Q8TAA3;Q9UJX6;P62987;O43242;P30260;P49721;P49720;Q13042;P63208;P62979}
- 9719 Pathogen[ P0C214] interacts with 63 human  
partners: {Q9UJX6;Q14997;P51665;P25789;P55036;P28062;A5LHX3;O00762;P28065;O14818;O43242;Q9UJX5;P63208;P48556;P40306;P14635;Q13200;Q9UJX2;Q9Y297;O00232;P51965;Q99460;P28066;O75832;Q9H1A4;P49720;P28074;P0CG48;Q9UL46;Q8NHZ8;Q12834;P25788;Q9UNM6;O00231;Q06323;P25786;Q13616;P28072;Q8TAA3;P62987;Q99436;Q9UJX4;P0CG47;P25787;Q9UJX3;P35998;P60900;O00233;Q9UM11;P51668;P62979;P30260;Q92530;Q9NYG5;Q15008;Q9UM13;P28070;Q9UKT4;P20618;P49721;Q16401;P17980;Q13042}
- 9720 Pathogen[ P03346] interacts with 61 human  
partners: {P25787;P28070;P25789;P55036;Q99460;Q9UM11;Q13616;Q9UL46;P62987;P28072;P25788;P28074;P49721;O14818;Q99436;P0CG48;Q16401;A5LHX3;Q9UM13;P28062;Q9NYG5;P20618;O00232;P51668;Q12834;O75832;O00233;Q9UJX6;P14635;Q13042;P51965;Q9UJX5;P49720;P28065;O00762;Q9UJX2;P60900;P25786;O00231;Q9UKT4;Q9UJX3;Q8NHZ8;P63208;P61289;Q9H1A4;P62979;P28066;Q9UNM6;Q9UJX4;Q8TAA3;P0CG47;Q14997;Q13200;P48556;P51665;Q06323;P30260;Q9Y297;Q92530;O43242;P40306}
- 9721 Pathogen[ Q85601] interacts with 56 human  
partners: {Q9UJX2;P28066;Q9UNM6;P60900;P55036;Q9UJX6;P25787;P61289;P25788;Q9UKT4;Q8NHZ8;O75832;Q9H1A4;Q13616;P0CG48;P51668;Q12834;P25789;O00233;P20618;P63208;P40306;P14635;Q13042;Q9UJX5;P51965;P49720;Q9UM13;P28062;P49721;Q9NYG5;P25786;O00762;P28072;Q9UJX3;Q13200;P28065;P62979;Q99436;P28070;Q9UJX4;Q9UM11;Q8TAA3;Q9UL46;Q99460;O00231;P0CG47;P48556;P28074;Q92530;P62987;A5LHX3;Q06323;P30260;O14818;Q16401}
- 9722 Pathogen[ P14079] interacts with 61 human  
partners: {P28065;Q99436;P62333;P48556;P51965;P0CG48;Q9UKT4;P40306;Q9UJX3;P55036;P28074;O00232;Q9H1A4;Q9UJX5;P49720;O00487;P25787;O75832;A5LHX3;P62979;O00233;P35998;P61289;P62987;P51665;P20618;Q9NYG5;Q8TAA3;Q14997;P51668;P14635;Q8NHZ8;P28062;P60900;Q9UM11;Q9UM13;Q13042;Q9UNM6;Q99460;O14818;P49721;Q92530;Q9UJX6;P30260;Q06323;P62191;O00762;Q15008;P43686;O43242;P25788;P63208;O00231;Q13616;P28066;Q9UL46;P0CG47;Q16401;Q9UJX4;P17980;P28072}
- 9723 Pathogen[ P03383] interacts with 56 human  
partners: {Q8NHZ8;Q13616;P55036;P62987;Q9NYG5;P51965;Q9UJX6;P25789;P60900;P40306;O00233;O00762;P49721;Q06323;Q9UKT4;Q14997;Q9H1A4;P63208;P20618;Q13042;P14635;Q12834;O75832;Q9UM13;Q9UM11;Q9UL46;Q9UNM6;P25786;Q99460;P28072;Q13200;P28065;P28066;Q9UJX4;Q16401;P62979;O00231;P0CG47;Q9UJX5;P0CG48;P28074;Q92530;P49720;Q8TAA3;P61289;Q9UJX2;P28062;P30260;P48556;O14818;Q9UJX3;Q99436;P28070;P51668;P25787;P25788}
- 9724 Pathogen[ P03410] interacts with 61 human  
partners: {Q9UKT4;P28070;P55036;P0CG48;Q9H1A4;P25786;Q15008;Q16401;P60900;Q14997;P35998;P51965;Q99460;Q9UJX4;Q9NYG5;O00233;Q9UM13;O00232;Q8NHZ8;Q8TAA3;P48556;P49721;A5LHX3;P62979;Q99436;P40306;Q06323;P63208;Q13200;P25787;P14635;Q9UM11;Q13042;P28062;P51665;O14818;P51668;Q9UJX5;O00231;Q9UNM6;Q12834;P30260;P25789;P49720;Q13616;Q9UJX3;P62987;O00762;P28072;P25788;P28066;P28065;O43242;Q9UJX6;P0CG47;P17980;O75832;P20618;Q9UL46;P28074;P61289}
- 9725 Pathogen[ P14075] interacts with 55 human  
partners: {P55036;P25788;Q13042;P28066;Q06323;O75832;Q8TAA3;Q9UKT4;P60900;P14635;Q9UM11;O00233;Q9UL46;P49720;P51965;Q13200;P48556;Q16401;P28070;Q9UJX2;P49721;O00231;Q9UJX6;Q8NHZ8;Q92530;P63208;P0CG48;P62979;O00762;P28062;P28074;Q9UJX5;P28065;P25786;O14818;P62987;P28072;Q14997;Q9UJX4;P0CG47;P25787;P20618;Q9H1A4;Q9UNM6;Q13616;Q9UM13;P30260;P61289;Q9UJX3;P40306;P51668;Q9NYG5;Q99436;Q12834;P25789}
- 9726 Pathogen[ P0C206] interacts with 59 human  
partners: {P61289;Q99436;P28062;Q9UNM6;P0CG48;O75832;P40306;P28065;Q14997;Q9UJX3;P55036;P25786;P25788;P25787;Q9UJX5;Q9UJX2;Q06323;P49720;O00232;P60900;Q13616;O43242;P302

60;A5LHX3;P25789;P51965;Q9UKT4;Q9H1A4;Q9NYG5;Q9UJX4;P20618;P63208;Q13200;Q8TAA3;P28070;Q99460;P62979;P28066;Q9UM11;O00762;O14818;Q9UJX6;P0CG47;P28072;P28074;Q92530;P49721;P14635;P62987;Q9UM13;Q9UL46;Q13042;P51668;O00233;P48556;Q16401;Q12834;Q8NHZ8;O00231}

9727 Pathogen[ P03363] interacts with 22 human partners:{Q9UJX2;Q9NYG5;Q13042;P51965;O00762;Q92530;Q8NHZ8;Q9UJX3;P61289;Q9UJX5;P30260;Q9UJX6;Q9UM11;Q9UJX4;Q13616;Q9UKT4;Q9H1A4;P62987;P51668;Q9UM13;Q12834;P63208}

9728 [Cluster 885]GO:0051597+P biological\_process [name] response to methylmercury [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a methylmercury stimulus." [GOC

9729 Pathogen[ Q2Q067] interacts with 3 human partners:{P24864;P06132;P08397}

9730 Pathogen[ P0C214] interacts with 5 human partners:{P06132;P08397;P24864;P36551;P22830}

9731 Pathogen[ P03346] interacts with 2 human partners:{P24864;P06132}

9732 Pathogen[ Q85601] interacts with 3 human partners:{P06132;P08397;P24864}

9733 Pathogen[ P14079] interacts with 5 human partners:{P24864;P06132;P08397;P22830;P36551}

9734 Pathogen[ P03383] interacts with 3 human partners:{P06132;P08397;P24864}

9735 Pathogen[ P03410] interacts with 5 human partners:{P08397;P06132;P36551;P22830;P24864}

9736 Pathogen[ P14075] interacts with 3 human partners:{P06132;P08397;P24864}

9737 Pathogen[ P0C206] interacts with 5 human partners:{P36551;P22830;P08397;P24864;P06132}

9738 Pathogen[ P03363] interacts with 2 human partners:{P24864;P06132}

9739 [Cluster 886]GO:0006641+P biological\_process [name] triglyceride metabolic process [def] "The chemical reactions and pathways involving triglyceride, any triester of glycerol. The three fatty acid residues may all be the same or differ in any permutation. Triglycerides are important components of plant oils, animal fats and animal plasma lipoproteins." [ISBN

9740 Pathogen[ Q2Q067] interacts with 1 human partners:{P32189}

9741 Pathogen[ P0C214] interacts with 1 human partners:{P32189}

9742 Pathogen[ P03346] interacts with 2 human partners:{P32189;Q8TAU0}

9743 Pathogen[ Q85601] interacts with 1 human partners:{P32189}

9744 Pathogen[ P14079] interacts with 4 human partners:{Q9Y5U4;P32189;Q8TCU4;O15503}

9745 Pathogen[ P03383] interacts with 1 human partners:{P32189}

9746 Pathogen[ P03410] interacts with 5 human partners:{Q9Y5U4;Q8TCU4;P55157;P32189;O15503}

9747 Pathogen[ P14075] interacts with 1 human partners:{P32189}

9748 Pathogen[ P0C206] interacts with 3 human partners:{Q8TCU4;P32189;Q8TAU0}

9749 Pathogen[ P03363] interacts with 1 human partners:{Q8TAU0}

9750 [Cluster 887]GO:0051084+P biological\_process [name] 'de novo' posttranslational protein folding [def] "The process of assisting in the correct noncovalent folding of newly formed polypeptides or folding intermediates of polypeptides that have exited the ribosome and/or have been stabilized and transferred by other chaperone proteins. This process could involve several cycles of ATP hydrolysis." [GOC

9751 Pathogen[ Q2Q067] interacts with 9 human partners:{Q9BTW9;O75347;Q99471;P17987;Q9NQP4;P50991;Q9UHV9;P61758;P78371}

9752 Pathogen[ P0C214] interacts with 15 human partners:{P60709;Q99832;P49368;O75347;P78371;P48643;P61758;Q9BTW9;Q9UHV9;Q99471;O60925;P17987;P50991;Q9NQP4;O60613}

9753 Pathogen[ P03346] interacts with 13 human partners:{Q99471;Q9UHV9;Q9NQP4;P78371;P60709;Q99426;O75347;Q9Y371;P50991;P49368;O60925;P61758;P17987}

9754 Pathogen[ Q85601] interacts with 12 human partners:{Q9NQP4;Q99471;Q9UHV9;O60613;Q9BTW9;P61758;P17987;P60709;P50991;O75347;P78371;P48643}

9755 Pathogen[ P14079] interacts with 20 human partners:{Q9BTW9;P48643;O60925;P50991;P78371;O60613;P68363;Q9UHV9;P50990;Q9NQP4;P61758;Q9Y371;Q15814;Q9NYU2;Q99426;P17987;P60709;O75347;Q99471;P49368}

9756 Pathogen[ P03383] interacts with 8 human partners:{Q9UHV9;O60613;Q9NQP4;O75347;Q99471;P78371;O60925;P61758}

9757 Pathogen[ P03410] interacts with 22 human partners:{P17987;P49368;Q99832;O60613;P48643;Q15814;Q99471;P50990;Q9BTW9;P61758;Q9Y371;Q9BVA1;Q9NQP4;O75347;P68363;O60925;P78371;Q9UHV9;Q99426;P60709;P50991;Q9NYU2}

9758 Pathogen[ P14075] interacts with 8 human partners:{O75347;P78371;Q9UHV9;O60613;Q9NQP4;P61758;O60925;Q99471}

9759 Pathogen[ P0C206] interacts with 16 human partners:{P48643;P60709;Q9BTW9;P50991;O60613;P17987;Q99471;Q15814;Q9UHV9;Q99426;O60925;P49368;P61758;O75347;P78371;Q9NQP4}

9760 Pathogen[ P03363] interacts with 17 human partners:{O75347;P60709;Q9UHV9;P68363;Q99471;P50991;Q13748;O60925;Q99426;Q15814;Q9BTW9;P17987;P61758;P78371;Q9NQP4;P48643;P49368}

9761 [Cluster 888]GO:0016556+P biological\_process [name] mRNA modification [def] "The covalent alteration of one or more nucleotides within an mRNA molecule to produce an mRNA molecule with a sequence that differs from that coded genetically." [GOC

9762 Pathogen[ Q2Q067] interacts with 2 human partners:{P55265;Q9UBS4}  
9763 Pathogen[ POC214] interacts with 2 human partners:{P55265;Q9UBS4}  
9764 Pathogen[ P03346] interacts with 3 human partners:{P55265;Q9UBS4;Q9NQ94}  
9765 Pathogen[ Q85601] interacts with 2 human partners:{Q9UBS4;P55265}  
9766 Pathogen[ P14079] interacts with 4 human partners:{P41238;Q9UBS4;Q9NQ94;P55265}  
9767 Pathogen[ P03383] interacts with 2 human partners:{Q9UBS4;P55265}  
9768 Pathogen[ P03410] interacts with 3 human partners:{P41238;P55265;Q9UBS4}  
9769 Pathogen[ P14075] interacts with 2 human partners:{P55265;Q9UBS4}  
9770 Pathogen[ POC206] interacts with 3 human partners:{P55265;Q9UBS4;P41238}  
9771 Pathogen[ P03363] interacts with 3 human partners:{Q9UBS4;P55265;Q9NQ94}  
9772 [Cluster 889]GO:0033962+P biological\_process [name] cytoplasmic mRNA processing body assembly [def] "The aggregation, arrangement and bonding together of proteins and RNA molecules to form a cytoplasmic mRNA processing body." [GOC  
9773 Pathogen[ Q2Q067] interacts with 6 human partners:{Q14204;Q86TB9;P26196;Q9UGP4;Q8ND56;Q99700}  
9774 Pathogen[ POC214] interacts with 6 human partners:{Q9UGP4;P26196;Q8ND56;Q14204;Q99700;Q86TB9}  
9775 Pathogen[ P03346] interacts with 6 human partners:{Q8ND56;Q9UGP4;Q14204;Q99700;Q86TB9;P26196}  
9776 Pathogen[ Q85601] interacts with 6 human partners:{Q14204;Q86TB9;P26196;Q9UGP4;Q99700;Q8ND56}  
9777 Pathogen[ P14079] interacts with 6 human partners:{Q8ND56;Q99700;Q14204;Q86TB9;P26196;Q9UGP4}  
9778 Pathogen[ P03383] interacts with 5 human partners:{Q99700;P26196;Q9UGP4;Q8ND56;Q86TB9}  
9779 Pathogen[ P03410] interacts with 5 human partners:{Q99700;Q14204;Q9UGP4;Q8ND56;Q86TB9}  
9780 Pathogen[ P14075] interacts with 5 human partners:{P26196;Q9UGP4;Q86TB9;Q99700;Q8ND56}  
9781 Pathogen[ POC206] interacts with 6 human partners:{Q86TB9;Q8ND56;Q9UGP4;P26196;Q14204;Q99700}  
9782 Pathogen[ P03363] interacts with 6 human partners:{Q14204;Q9UGP4;P26196;Q8ND56;Q86TB9;Q99700}  
9783 [Cluster 890]GO:0033630+P biological\_process [name] positive regulation of cell adhesion mediated by integrin [def] "Any process that activates or increases the frequency, rate, or extent of cell adhesion mediated by integrin." [GOC  
9784 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96LB3}  
9785 Pathogen[ POC214] interacts with 1 human partners:{Q96LB3}  
9786 Pathogen[ P03346] interacts with 1 human partners:{Q96LB3}  
9787 Pathogen[ Q85601] interacts with 1 human partners:{Q96LB3}  
9788 Pathogen[ P14079] interacts with 1 human partners:{Q96LB3}  
9789 Pathogen[ P03383] interacts with 1 human partners:{Q96LB3}  
9790 Pathogen[ P03410] interacts with 1 human partners:{Q96LB3}  
9791 Pathogen[ P14075] interacts with 1 human partners:{Q96LB3}  
9792 Pathogen[ POC206] interacts with 1 human partners:{Q96LB3}  
9793 Pathogen[ P03363] interacts with 1 human partners:{Q96LB3}  
9794 [Cluster 891]GO:0007243+P biological\_process [name] intracellular protein kinase cascade [def] "A series of reactions that occur within the cell, mediated by protein kinases, which occurs as a result of a single trigger reaction or compound." [GOC  
9795 Pathogen[ Q2Q067] interacts with 7 human partners:{O15117;Q15532;O75582;O14713;Q9NP71;P26651;Q15759}  
9796 Pathogen[ POC214] interacts with 9 human partners:{O15117;Q9NP71;O75582;P26651;Q15532;Q15759;P16118;Q99704;O14713}  
9797 Pathogen[ P03346] interacts with 9 human partners:{Q15532;Q9NP71;Q9UKA4;O14713;Q99704;O75582;Q15759;O15117;P26651}  
9798 Pathogen[ Q85601] interacts with 8 human partners:{Q15532;O14713;Q9NP71;P16118;P26651;O15117;O75582;Q15759}  
9799 Pathogen[ P14079] interacts with 9 human partners:{Q9UKA4;Q15532;Q99704;O75582;O15117;Q15759;O14713;Q9NP71;O96001}  
9800 Pathogen[ P03383] interacts with 7 human partners:{O75582;O14713;Q15532;O15117;Q9NP71;Q15759;P26651}  
9801 Pathogen[ P03410] interacts with 10 human partners:{Q9UKA4;P16118;O75582;O14713;P26651;Q99704;Q9NP71;O15117;O96001;Q15532}  
9802 Pathogen[ P14075] interacts with 8 human partners:{Q15759;Q15532;O14713;O75582;P26651;O15117;Q9NP71;P16118}  
9803 Pathogen[ POC206] interacts with 10 human partners:{Q9NP71;P26651;O75582;O14713;Q15532;Q99704;P16118;O15117;Q15759;Q9UKA4}  
9804 Pathogen[ P03363] interacts with 6 human partners:{Q99704;Q15532;O14713;O15117;P26651;Q9NP71}  
9805 [Cluster 892]GO:0055085+P biological\_process [name] transmembrane transport [def] "The process in which a solute is transported from one side of a membrane to the other." [GOC  
9806 Pathogen[ Q2Q067] interacts with 36 human partners:{P02792;Q96EE3;P52948;Q12769;Q96HA1;P49790;P49792;O75694;P78406;P19367;P36543;Q99567;Q8N1F7;Q7L804;Q7Z3B4;Q8NFH4;P12270;P11166;Q9BW27;Q8TEM1;Q9BVL2;Q9UKX7;Q9NRG9;Q8NFH3;P37198;Q92621;O15504;P57740;P40855;Q8WUM0;Q9UBX3;P14672;P35658;Q8NFH5;Q5SR

E5;Q14397}  
9807 Pathogen[ POC214] interacts with 40 human  
partners:{P02794;Q16864;Q8NFH5;Q9UI12;Q8TEM1;P40855;P78406;P57740;Q99567;Q8N1F7;O75694;Q96EE3;P49792;Q9UKX7;P36543;P11166;Q7L804;Q9UBX3;P11168;P49790;P37198;Q9BW27;Q9NRG9;P35658;P19367;Q8NFH3;Q14397;O15504;P02792;P12270;Q8NFH4;Q9BVL2;Q5SRE5;P14672;Q7Z3B4;Q8WUM0;P52948;Q92621;Q12769;Q96HA1}  
9808 Pathogen[ P03346] interacts with 43 human  
partners:{Q8TEM1;P02792;P21283;Q8NFH4;Q8WUM0;P12270;Q12769;Q96EE3;Q99567;Q9UKX7;Q9UBX3;Q9Y5K8;O75694;Q9NRG9;P78406;P57740;Q9BVL2;Q8N1F7;P19367;P36543;P02794;Q93050;Q8NFH5;P37198;Q8NFH3;P35658;Q5SRE5;Q92621;Q9BW27;Q7L804;P11166;Q14397;Q9ULV0;P56589;P49790;P40855;Q16864;Q96HA1;P14672;Q7Z3B4;O15504;P49792;P52948}  
9809 Pathogen[ Q85601] interacts with 38 human  
partners:{Q8TEM1;Q5SRE5;P11168;Q8NFH4;Q8NFH3;Q7L804;Q96EE3;Q12769;Q9UBX3;P78406;P57740;Q9NRG9;Q93050;Q8WUM0;Q8N1F7;P12270;O75694;O15504;Q9BW27;P11166;Q92621;P52948;Q9UKX7;Q8NFH5;P35658;Q14397;Q99567;P02792;P49792;Q9BVL2;Q96HA1;P14672;P02794;Q7Z3B4;P49790;P40855;P19367;P36543}  
9810 Pathogen[ P14079] interacts with 47 human  
partners:{P36543;Q8NFH5;Q9Y5K8;Q7L804;Q9BW27;Q96HA1;P40855;P61421;P56589;P57740;Q8N1F7;P35658;Q96LB4;P14672;O00400;Q92621;Q8TEM1;P11166;Q96NT5;Q6ZSS7;Q9UKX7;Q9BVL2;O15504;Q8WUM0;P12270;Q99567;Q8NFH3;Q96ES6;Q8N8Y2;Q96EE3;P37198;P49790;P02794;Q8NFH4;Q93050;P78406;Q7Z3B4;Q9UI12;Q14397;O95670;Q12769;Q16864;Q5SRE5;Q9NRG9;O75694;Q15849;P52948}  
9811 Pathogen[ P03383] interacts with 37 human  
partners:{Q9BVL2;Q96EE3;O15504;Q8WUM0;P02794;Q7L804;Q92621;P49792;Q8NFH4;P12270;P19367;P52948;P78406;P57740;Q8NFH5;Q8N1F7;Q8TEM1;Q12769;P11168;Q99567;Q14397;Q9BW27;Q5SRE5;P35658;Q96HA1;Q9NRG9;P11169;P36543;P37198;Q9UKX7;P14672;Q7Z3B4;P49790;O75694;P40855;Q8NFH3;P22732}  
9812 Pathogen[ P03410] interacts with 54 human  
partners:{Q99567;Q14397;Q7Z3B4;Q9BW27;Q7L804;P22732;P02794;Q8N8Y2;Q9UKX7;P11166;Q8NFH4;P61421;Q9ULV0;O00400;Q5SRE5;P05141;P52948;O15504;P11168;O75694;Q93050;P78406;P40855;Q96HA1;Q9UBX3;Q8N1F7;Q13336;P49790;P12270;P35658;Q8NFH5;Q8TEM1;Q9UI12;Q96LB4;Q15849;Q96EE3;O95670;Q96D96;Q16864;Q6ZSS7;Q8WUM0;Q96ES6;P56589;P57740;P02792;Q12769;Q9Y5K8;Q9NRG9;Q8NFH3;Q9BVL2;O75348;P36543;Q92621;P49792}  
9813 Pathogen[ P14075] interacts with 37 human  
partners:{P11169;P40855;P78406;P57740;P49792;Q8N1F7;P19367;P22732;Q9UKX7;P35658;P12270;Q92621;Q96HA1;Q9BW27;Q7L804;Q8TEM1;P02794;Q96EE3;P37198;Q5SRE5;Q14397;Q8NFH3;O15504;Q99567;Q12769;P11168;Q9BVL2;P49790;Q8WUM0;P14672;O75694;Q9NRG9;Q7Z3B4;Q8NFH4;Q8NFH5;P52948;P36543}  
9814 Pathogen[ POC206] interacts with 42 human  
partners:{Q96EE3;Q92621;P36543;P49790;Q5SRE5;Q8NFH5;Q9NRG9;P02794;P56589;Q7Z3B4;Q96HA1;Q9UBX3;P57740;P11166;P19367;Q8WUM0;P11168;P49792;Q8TEM1;Q9UKX7;O75694;P40855;Q9UI12;P02792;Q99567;Q9Y5K8;Q16864;Q8NFH4;P14672;P78406;Q14397;Q15849;O15504;Q12769;Q7L804;Q8NFH3;Q8N1F7;P35658;Q9BW27;Q9BVL2;Q93050;P12270}  
9815 Pathogen[ P03363] interacts with 33 human  
partners:{Q7Z3B4;Q7L804;Q5SRE5;P12270;Q8NFH4;P36543;Q14397;Q8NFH3;Q12769;Q9UKX7;Q9NRG9;Q8WUM0;Q9BVL2;Q99567;Q96HA1;P49792;P35658;O75694;P49790;P40855;P57740;Q9Y5K8;P14672;P78406;P52948;O15504;P37198;Q8N1F7;Q92621;Q8NFH5;P02794;P11166;Q9BW27}  
9816 [Cluster 893]GO:0046755+P biological\_process [name] non-lytic virus budding [def] "A form of viral release in which the viral particles bud out through cellular membranes without causing cell lysis. It is also a form of viral envelopment." [ISBN  
9817 Pathogen[ Q2Q067] interacts with 1 human partners:{Q99816}  
9818 Pathogen[ POC214] interacts with 1 human partners:{Q99816}  
9819 Pathogen[ P03346] interacts with 1 human partners:{Q99816}  
9820 Pathogen[ Q85601] interacts with 1 human partners:{Q99816}  
9821 Pathogen[ P14079] interacts with 1 human partners:{Q99816}  
9822 Pathogen[ P03383] interacts with 1 human partners:{Q99816}  
9823 Pathogen[ P03410] interacts with 1 human partners:{Q99816}  
9824 Pathogen[ P14075] interacts with 1 human partners:{Q99816}  
9825 Pathogen[ POC206] interacts with 1 human partners:{Q99816}  
9826 Pathogen[ P03363] interacts with 1 human partners:{Q99816}  
9827 [Cluster 894]GO:0016311+P biological\_process [name] dephosphorylation [def] "The process of removing one or more phosphoric (ester or anhydride) residues from a molecule." [ISBN  
9828 Pathogen[ Q2Q067] interacts with 7 human  
partners:{Q9BU02;Q08209;Q9UNH5;Q9BV47;P09467;P35813;Q16829}  
9829 Pathogen[ POC214] interacts with 11 human  
partners:{Q9BU02;P35813;Q9BV47;O15194;Q8TCD5;P09467;Q08209;O95278;Q16829;Q9UNH5;Q13615}  
9830 Pathogen[ P03346] interacts with 17 human  
partners:{P43378;P35813;Q9H3S7;Q86WG5;P09467;O15194;Q9BV47;Q16667;P17706;Q96QG7;Q16829;Q9BU02;Q08209;O95278;Q9Y2R2;P24666;Q9UNH5}  
9831 Pathogen[ Q85601] interacts with 10 human  
partners:{O15194;Q9BU02;Q16829;O95278;Q9BV47;Q08209;Q9UNH5;P09467;P35813;Q96QG7}  
9832 Pathogen[ P14079] interacts with 13 human  
partners:{O15194;Q8TCD5;Q16829;P16298;Q96QG7;P35813;Q9BV47;Q9BU02;Q86WG5;Q9UNW1;P09467;Q08209;Q9UNH5}

9833 Pathogen[ P03383] interacts with 4 human partners:{Q9BU02;P09467;P35813;Q9UNH5}

9834 Pathogen[ P03410] interacts with 13 human partners:{Q96QG7;Q9BU02;P35813;Q08209;Q9UNH5;P09467;Q16829;Q8TCD5;P24666;Q9UNW1;Q9BV47;Q15194;Q86WG5}

9835 Pathogen[ P14075] interacts with 4 human partners:{P35813;Q9BU02;P09467;Q9UNH5}

9836 Pathogen[ P0C206] interacts with 15 human partners:{Q9BV47;Q13615;P09467;Q96QG7;Q9Y2R2;Q16829;P24666;Q9UNH5;Q8TCD5;O95278;Q08209;Q15194;Q9BU02;P17706;P35813}

9837 Pathogen[ P03363] interacts with 13 human partners:{P17706;Q9H3S7;Q9UNH5;Q9Y2R2;P43378;Q16667;Q16829;Q86WG5;Q12923;Q96QG7;Q9BV47;Q9BU02;P24666}

9838 [Cluster 895]GO:0010468+P biological\_process [name] regulation of gene expression [def] "Any process that modulates the frequency, rate or extent of gene expression. Gene expression is the process in which a gene's coding sequence is converted into a mature gene product or products (proteins or RNA). This includes the production of an RNA transcript as well as any processing to produce a mature RNA product or an mRNA (for protein-coding genes) and the translation of that mRNA into protein. Some protein processing events may be included when they are required to form an active form of a product from an inactive precursor form." [GOC

9839 Pathogen[ Q2Q067] interacts with 23 human partners:{Q9UM63;Q9HBE1;Q15910;P62714;P26358;Q14106;P10914;P35226;P35869;O75030;Q9UPW6;P21399;P42771;O96018;Q01860;Q9BQA5;Q04743;P11802;P10242;Q14207;Q6RFH8;P48200;Q00534}

9840 Pathogen[ P0C214] interacts with 23 human partners:{P35226;P35869;Q14207;Q9HBE1;P11802;P10914;O96018;Q15910;O75030;P48200;Q8WV60;P62714;Q00534;Q6RFH8;P26358;P42771;P10242;Q9UPW6;Q9BQA5;Q9UM63;P21399;Q14106;Q01860}

9841 Pathogen[ P03346] interacts with 32 human partners:{O75364;Q14207;Q9UPW6;P35226;Q8IYA7;Q04743;Q9BYW2;Q99767;P26358;P62714;O75030;Q9UM63;P42771;Q01860;P11802;Q6UW56;P10242;P10914;P48200;O96018;P78411;Q15910;Q9HBE1;Q92832;Q14106;Q00534;Q6RFH8;P35869;P21399;Q9H9S0;Q9GZV8;Q9BQA5}

9842 Pathogen[ Q85601] interacts with 24 human partners:{Q9UPW6;P62714;P21399;O75030;Q8WV60;P48200;P10242;Q99767;Q14106;P26358;P10914;P11802;Q9UM63;O96018;P42771;Q14207;Q9BQA5;Q15910;P35869;P35226;Q00534;Q6RFH8;Q01860;Q9HBE1}

9843 Pathogen[ P14079] interacts with 27 human partners:{Q9UPW6;P35869;Q14207;P21399;P16298;Q14106;Q9BQA5;Q8WV60;Q01860;Q6RFH8;O96018;Q92832;P48200;P26358;P04141;P13232;P35226;Q04743;Q15910;Q9GZV8;P10242;O75030;Q9UM63;Q9HBE1;Q99767;P10914;P42771}

9844 Pathogen[ P03383] interacts with 21 human partners:{O96018;P10914;Q9UPW6;Q9HBE1;Q14106;P62714;O75030;Q6RFH8;P48200;Q01860;Q00534;P11802;Q9BQA5;P42771;Q14207;P10242;Q15910;Q9UM63;P35869;P26358;P35226}

9845 Pathogen[ P03410] interacts with 28 human partners:{P62714;P42771;P04141;O96018;Q00534;Q8WV60;Q01860;Q9BQA5;P10242;O75030;Q14207;Q99767;Q9UPW6;Q92832;Q9GZV8;Q6RFH8;P26358;P21399;P11802;P10914;Q14106;Q9UM63;Q15910;P48200;P35226;Q04743;Q9HBE1;P13232}

9846 Pathogen[ P14075] interacts with 21 human partners:{P35869;Q6RFH8;Q14207;Q9UM63;O75030;O96018;P11802;Q9BQA5;Q01860;Q00534;P42771;Q15910;P10242;P26358;Q9UPW6;Q14106;P62714;P35226;P48200;P10914;Q9HBE1}

9847 Pathogen[ P0C206] interacts with 30 human partners:{P10914;Q8WV60;Q04743;P35869;O75030;Q9HBE1;Q01860;P35226;P78411;Q9UM63;P10242;Q6UW56;P26358;P42771;Q15910;Q9BQA5;P48200;Q99767;O96018;Q14106;Q6RFH8;Q9UPW6;P62714;Q9H9S0;Q92832;Q9GZV8;P11802;P21399;Q14207;Q00534}

9848 Pathogen[ P03363] interacts with 27 human partners:{P62714;Q6UW56;Q15910;P48200;P78411;Q9UM63;P35869;Q00534;Q92832;O75030;P35226;Q9BQA5;P26358;P10914;Q14106;Q6RFH8;P10242;Q8IYA7;Q14207;P11802;Q9H9S0;O96018;Q9UPW6;Q99767;Q01860;P42771;Q04743}

9849 [Cluster 896]GO:0051973+P biological\_process [name] positive regulation of telomerase activity [def] "Any process that activates or increases the frequency, rate or extent of telomerase activity, the catalysis of the reaction

9850 Pathogen[ Q2Q067] interacts with 2 human partners:{Q96AP0;Q9BUR4}

9851 Pathogen[ P0C214] interacts with 1 human partners:{Q9BUR4}

9852 Pathogen[ P03346] interacts with 3 human partners:{Q96AP0;Q9BUR4;Q9NUX5}

9853 Pathogen[ Q85601] interacts with 1 human partners:{Q9BUR4}

9854 Pathogen[ P14079] interacts with 4 human partners:{Q9NUX5;Q9BUR4;Q6UWI2;Q96AP0}

9855 Pathogen[ P03383] interacts with 1 human partners:{Q9BUR4}

9856 Pathogen[ P03410] interacts with 4 human partners:{Q9NUX5;Q96AP0;Q6UWI2;Q9BUR4}

9857 Pathogen[ P14075] interacts with 3 human partners:{Q96AP0;Q9BUR4;Q6UWI2}

9858 Pathogen[ P0C206] interacts with 4 human partners:{Q96AP0;Q9BUR4;Q9NUX5;Q6UWI2}

9859 Pathogen[ P03363] interacts with 3 human partners:{Q9BUR4;Q96AP0;Q9NUX5}

9860 [Cluster 897]GO:0046826+P biological\_process [name] negative regulation of protein export from nucleus [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the directed movement of proteins from the nucleus into the cytoplasm." [GOC

9861 Pathogen[ Q2Q067] interacts with 2 human partners:{Q99728;P10599}

9862 Pathogen[ P0C214] interacts with 3 human partners:{Q99728;P46060;P10599}



9863 Pathogen[ P03346] interacts with 4 human partners:{Q06945;Q99728;P46060;P10599}  
9864 Pathogen[ Q85601] interacts with 3 human partners:{P46060;Q99728;P10599}  
9865 Pathogen[ P14079] interacts with 2 human partners:{P46060;P10599}  
9866 Pathogen[ P03383] interacts with 1 human partners:{P10599}  
9867 Pathogen[ P03410] interacts with 2 human partners:{P10599;P46060}  
9868 Pathogen[ P14075] interacts with 1 human partners:{P10599}  
9869 Pathogen[ P0C206] interacts with 3 human partners:{P46060;Q99728;P10599}  
9870 Pathogen[ P03363] interacts with 2 human partners:{P46060;Q99728}  
9871 [Cluster 898]GO:0048295+P biological\_process [name] positive regulation of isotype switching to IgE isotypes [def] "Any process that activates or increases the frequency, rate or extent of isotype switching to IgE isotypes." [GOC  
9872 Pathogen[ Q2Q067] interacts with 1 human partners:{P42226}  
9873 Pathogen[ P0C214] interacts with 1 human partners:{P42226}  
9874 Pathogen[ P03346] interacts with 1 human partners:{P42226}  
9875 Pathogen[ Q85601] interacts with 1 human partners:{P42226}  
9876 Pathogen[ P14079] interacts with 1 human partners:{P42226}  
9877 Pathogen[ P03383] interacts with 1 human partners:{P42226}  
9878 Pathogen[ P03410] interacts with 1 human partners:{P42226}  
9879 Pathogen[ P14075] interacts with 1 human partners:{P42226}  
9880 Pathogen[ P0C206] interacts with 1 human partners:{P42226}  
9881 Pathogen[ P03363] interacts with 1 human partners:{P42226}  
9882 [Cluster 899]GO:0001556+P biological\_process [name] oocyte maturation [def] "A developmental process, independent of morphogenetic (shape) change, that is required for an oocyte to attain its fully functional state. Oocyte maturation commences after reinitiation of meiosis commonly starting with germinal vesicle breakdown, and continues up to the second meiotic arrest prior to fertilization." [GOC  
9883 Pathogen[ Q2Q067] interacts with 4 human partners:{P14635;O43524;Q9UKT4;P30305}  
9884 Pathogen[ P0C214] interacts with 3 human partners:{P14635;P30305;Q9UKT4}  
9885 Pathogen[ P03346] interacts with 5 human partners:{P30305;P14635;P51587;Q9UKT4;O43524}  
9886 Pathogen[ Q85601] interacts with 4 human partners:{Q9UKT4;P30305;P14635;P51587}  
9887 Pathogen[ P14079] interacts with 4 human partners:{Q9UKT4;P51587;P14635;P30305}  
9888 Pathogen[ P03383] interacts with 2 human partners:{Q9UKT4;P14635}  
9889 Pathogen[ P03410] interacts with 4 human partners:{Q9UKT4;P14635;P51587;P30305}  
9890 Pathogen[ P14075] interacts with 2 human partners:{Q9UKT4;P14635}  
9891 Pathogen[ P0C206] interacts with 4 human partners:{P51587;P30305;Q9UKT4;P14635}  
9892 Pathogen[ P03363] interacts with 2 human partners:{O43524;Q9UKT4}  
9893 [Cluster 900]GO:0006569+P biological\_process [name] tryptophan catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of tryptophan, the chiral amino acid 2-amino-3-(1H-indol-3-yl)propanoic acid." [ISBN  
9894 Pathogen[ Q2Q067] interacts with 2 human partners:{Q63HM1;Q16719}  
9895 Pathogen[ P0C214] interacts with 3 human partners:{Q63HM1;Q16719;Q16773}  
9896 Pathogen[ P03346] interacts with 2 human partners:{Q63HM1;Q16719}  
9897 Pathogen[ Q85601] interacts with 2 human partners:{Q16719;Q63HM1}  
9898 Pathogen[ P14079] interacts with 4 human partners:{P48775;Q63HM1;Q8TDX5;Q16719}  
9899 Pathogen[ P03383] interacts with 2 human partners:{Q63HM1;Q16719}  
9900 Pathogen[ P03410] interacts with 4 human partners:{Q16719;Q63HM1;Q8TDX5;P48775}  
9901 Pathogen[ P14075] interacts with 2 human partners:{Q16719;Q63HM1}  
9902 Pathogen[ P0C206] interacts with 2 human partners:{Q16719;Q63HM1}  
9903 Pathogen[ P03363] interacts with 1 human partners:{Q63HM1}  
9904 [Cluster 901]GO:0006879+P biological\_process [name] cellular iron ion homeostasis [def] "Any process involved in the maintenance of an internal steady state of iron ions at the level of a cell." [GOC  
9905 Pathogen[ Q2Q067] interacts with 8 human partners:{P02792;Q8IVG9;P01106;P36543;Q86VX9;P22557;P21399;P48200}  
9906 Pathogen[ P0C214] interacts with 10 human partners:{P02794;Q16864;Q9UI12;Q86VX9;P36543;P48200;P22557;P02792;P21399;P01106}  
9907 Pathogen[ P03346] interacts with 13 human partners:{P02792;P21283;Q9Y5K8;P36543;Q86VX9;Q8IVG9;P02794;Q93050;P22557;P01106;P48200;Q16864;P21399}  
9908 Pathogen[ Q85601] interacts with 8 human partners:{P01106;P21399;Q93050;P48200;Q86VX9;P02792;P02794;P36543}  
9909 Pathogen[ P14079] interacts with 18 human partners:{P36543;Q9Y5K8;P61421;Q86VX9;Q96LB4;P21399;Q8IVG9;P22557;Q96NT5;P48200;Q8N8Y2;P81172;P01106;P02794;Q93050;Q9UI12;O95670;Q16864}  
9910 Pathogen[ P03383] interacts with 6 human partners:{P02794;P01106;P48200;Q86VX9;P36543;Q8IVG9}  
9911 Pathogen[ P03410] interacts with 19 human partners:{P02794;Q8N8Y2;P01106;P61421;Q93050;Q8IVG9;P22557;P21399;Q9UI12;Q96LB4;P81172;O95670;Q16864;Q86VX9;P48200;P02792;Q9Y5K8;O75348;P36543}  
9912 Pathogen[ P14075] interacts with 6 human partners:{Q86VX9;Q8IVG9;P01106;P02794;P48200;P36543}  
9913 Pathogen[ P0C206] interacts with 13 human partners:{P36543;P02794;P48200;P22557;Q9UI12;Q86VX9;Q8IVG9;P02792;Q9Y5K8;Q16864;P01106;P21399;Q93050}  
9914 Pathogen[ P03363] interacts with 7 human

partners:{P36543;P48200;P01106;Q86VX9;Q9Y5K8;Q8IVG9;P02794}

9915 [Cluster 902]GO:0060928+P biological\_process [name] atrioventricular node cell development [def] "The process whose specific outcome is the progression of an atrioventricular (AV) node cell over time, from its formation to the mature state." [GOC

9916 Pathogen[ Q2Q067] interacts with 1 human partners:{Q92585}

9917 Pathogen[ P0C214] interacts with 1 human partners:{Q92585}

9918 Pathogen[ P03346] interacts with 1 human partners:{Q92585}

9919 Pathogen[ Q85601] interacts with 1 human partners:{Q92585}

9920 Pathogen[ P14079] interacts with 1 human partners:{Q92585}

9921 Pathogen[ P03383] interacts with 1 human partners:{Q92585}

9922 Pathogen[ P03410] interacts with 1 human partners:{Q92585}

9923 Pathogen[ P14075] interacts with 1 human partners:{Q92585}

9924 Pathogen[ P0C206] interacts with 1 human partners:{Q92585}

9925 Pathogen[ P03363] interacts with 1 human partners:{Q92585}

9926 [Cluster 903]GO:0030422+P biological\_process [name] production of siRNA involved in RNA interference [def] "Cleavage of double-stranded RNA to form small interfering RNA molecules (siRNAs) of 21-23 nucleotides, in the context of RNA interference." [GOC

9927 Pathogen[ Q2Q067] interacts with 1 human partners:{Q15633}

9928 Pathogen[ P0C214] interacts with 1 human partners:{Q15633}

9929 Pathogen[ P03346] interacts with 2 human partners:{Q15633;O75569}

9930 Pathogen[ Q85601] interacts with 1 human partners:{Q15633}

9931 Pathogen[ P14079] interacts with 1 human partners:{O75569}

9932 Pathogen[ P03383] interacts with 1 human partners:{Q15633}

9933 Pathogen[ P03410] interacts with 2 human partners:{Q15633;O75569}

9934 Pathogen[ P14075] interacts with 1 human partners:{Q15633}

9935 Pathogen[ P0C206] interacts with 1 human partners:{Q15633}

9936 Pathogen[ P03363] interacts with 2 human partners:{Q15633;O75569}

9937 [Cluster 904]GO:0006414+P biological\_process [name] translational elongation [def] "The successive addition of amino acid residues to a nascent polypeptide chain during protein biosynthesis." [GOC

9938 Pathogen[ Q2Q067] interacts with 92 human partners:{P61313;P62701;Q8NHW5;P47914;P46779;Q02543;P26373;P29692;P62750;P62273;P15880;P40429;P46782;P35268;P24534;P22090;P46778;P26641;P62888;P32969;P62277;P62241;P62244;P05387;P62861;P42766;P05386;P63241;Q9UNX3;P30050;P18077;P62891;P61927;P39023;P62081;P61247;P61254;P62249;P62280;P83731;P62263;P60866;P62906;Q02878;P46777;P62899;P08708;P08865;Q07020;P62913;P62269;Q6IS14;P62424;P62917;P57772;P62829;P46783;P36578;P62857;P62847;P49207;P23396;P63173;P18621;Q658K8;P43897;P39019;P61353;Q9GZV4;P62266;P42677;Q9Y3U8;P63220;P62841;P83881;P62987;P50914;P46776;P62854;P62753;P05388;P18124;P62851;P25398;P62910;Q92901;P68104;P46781;P27635;P61513;P62945;P62979}

9939 Pathogen[ P0C214] interacts with 93 human partners:{P62861;P84098;P61247;Q8NHW5;P15880;Q6IS14;P62081;P42766;P62913;P22090;Q92901;P62249;P62899;P62854;P39019;P62263;P57772;P62273;P23396;P18077;Q9GZV4;P05388;P62847;P62829;P26373;P27635;P46778;P61513;P29692;P83881;P62701;P49207;P63220;P26641;P08865;P32969;Q02543;P62266;P63241;P62277;P50914;P46779;P40429;P47914;P63173;P13639;P46783;P43897;P62280;Q9UNX3;Q9Y3U8;P30050;P62753;P62910;P62891;P62269;P46781;P61254;P62841;P62244;P62987;Q07020;P42677;P62945;P46776;P62241;P46777;P24534;P83731;P35268;P62424;P60866;P62857;P61313;P08708;P05387;P25398;P26640;P61927;P62750;P62979;P05386;P62851;P46782;P18124;Q05639;Q5VTE0;P61353;P36578;P18621;Q658K8;P62906;Q02878}

9940 Pathogen[ P03346] interacts with 94 human partners:{P05387;Q8NHW5;P46779;P63173;P62917;P62249;P62913;P62861;P62277;Q02878;Q9GZV4;P62280;P39023;P57772;P62987;P61927;Q9UNX3;P62857;P46778;P49207;P62266;P26641;P61254;P29692;P62424;P62273;P83731;P60866;P63241;P62899;P35268;P62891;P08708;Q6IS14;P46782;P61353;P62854;Q9Y3U8;P47914;P43897;P08865;P61313;P25398;P61513;P05388;P62269;Q02543;P42766;P62081;P61247;P18621;P46781;P84098;Q969K4;P15880;P50914;P62829;P62979;P24534;P39019;P23396;P42677;P62750;P62701;P30050;P62910;P36578;P62847;P62851;P22090;P46777;Q07020;P62263;P62841;Q658K8;P83881;P05386;P18077;P46776;P62241;P62753;P62945;Q92901;P32969;P26373;P18124;P40429;P27635;P68104;P46783;P62906;P62244;P62888;P63220}

9941 Pathogen[ Q85601] interacts with 95 human partners:{P46783;P32969;P61513;Q8NHW5;P26373;P62857;P62244;P62913;P62854;P62081;P61353;P62891;P46776;P18077;P61313;P05388;Q9GZV4;Q5VTE0;P57772;P63173;P23396;P62273;P46778;P62829;P30050;P62753;P27635;P15880;P83881;Q07020;P39019;Q658K8;P26641;Q9Y3U8;P62701;P62241;P62424;P83731;P63241;P62899;P62945;P24534;P62263;P62861;Q02878;P39023;P61254;P49207;P62910;P62249;P62280;P47914;P84098;P08708;P42766;P62269;P68104;P18621;P05387;Q9UNX3;P62277;P35268;P43897;P62979;P62847;P42677;P63220;P46782;P46779;P62750;P62851;P62841;P62987;P22090;P61927;P29692;P36578;P05386;P08865;P61247;Q05639;P46777;P62917;Q92901;P18124;P46781;P25398;P60866;Q02543;P62906;P50914;Q6IS14;P62266;P40429;P62888}

9942 Pathogen[ P14079] interacts with 96 human partners:{Q9Y3U8;P27635;P84098;P46779;P26373;P23396;P40429;P18621;Q658K8;P83881;P68104;Q9UNX3;P46781;P83731;P61513;P62847;Q6IS14;P62753;P57772;P26641;P39023;P62273;P25398;P18077;P46783;P61254;P50914;P62979;P62841;P18124;P42766;P62266;P29692;P46782;P62987;P62241;P32969;P22090;P62829;P60866;P43897;Q96RP9;P62854;Q07020;P39019;P63220;P49207;P62244;P24534;P62263;Q02543;P62424;Q92901;P62277;P62750;P62910;P63173;P46776;P08708;P36578;P62640;P13639;P62906;P47914;P62280;P62899;P63241;P61353;P62081;P62945;P46777;P42677;P30050;P15880;P62891;P62888;P08865;P61927;P62917;P46778;P62249;P05386;P35268;P62913;P05387;P61247;P62269;P62701;Q9GZV4;P61313;P62851;P49411;P05388;P62857;P628

61;Q8NHW5}  
9943 Pathogen[ P03383] interacts with 92 human partners: {P42766;P36578;P05388;P62266;Q8NHW5;P39019;P26373;P62913;P62945;P62854;P40429;P62987;P62891;P25398;Q658K8;P62280;Q07020;P62750;P05387;P62249;P62888;P57772;P62899;P61927;P24534;P46777;P46779;P49207;P83731;P62424;P18124;P46778;Q92901;P62753;Q9GZV4;P42677;P61247;P83881;P26641;P47914;P62917;P62273;Q9UNX3;P63241;P30050;P84098;P32969;P62277;P18077;P63173;P62081;P61313;P08865;P62851;P46782;P62269;P68104;P63220;Q02543;P62244;Q02878;P62910;P27635;P43897;P62857;P62906;P46783;Q9Y3U8;P60866;P61254;P62979;P62241;P46781;P39023;P62841;P22090;P62701;P62829;P29692;P62263;P62847;P35268;P05386;P50914;P62861;P18621;P46776;P15880;P23396;P61513;P08708;P61353}  
9944 Pathogen[ P03410] interacts with 98 human partners: {P62861;P05386;Q8NHW5;Q02543;P61247;P62241;P62829;P49207;P26373;P61513;P68104;P62899;P62244;P62913;Q02878;Q92901;P15880;P46777;P46776;P62841;P30050;P05388;P46781;P18124;Q96RP9;P62269;Q07020;P63220;P62910;P62847;P62906;P23396;P18621;P62266;P62249;P63173;P50914;P62280;P22090;P13639;P61313;P62979;P62701;P62750;Q969K4;P08865;Q9UNX3;P62277;P36578;P18077;P25398;P61927;P84098;P62854;P62273;P62081;P46783;Q9Y3U8;P08708;P46782;P32969;Q658K8;P46779;P27635;P57772;P62987;P24534;P62857;P26640;P63241;P62263;P62424;P62888;P61254;P46778;P62945;P05387;P42766;P26641;P39019;P47914;Q9GZV4;P40429;P39023;P29692;P62917;P62851;P83731;P35268;P61353;P62891;P62753;P49411;P43897;P83881;P60866;P42677;Q6IS14}  
9945 Pathogen[ P14075] interacts with 91 human partners: {P42766;P49207;P62857;P46781;P63220;P32969;P42677;P62913;P22090;Q02878;P62277;Q658K8;P62851;P68104;P57772;P08865;P62244;P08708;P61254;P46778;P05388;P26641;P83881;P46777;P29692;Q9GZV4;Q9Y3U8;P62249;P62081;P63241;P62750;P18621;Q02543;P18124;Q9UNX3;P25398;P63173;P30050;P62979;P43897;P83731;P84098;P61247;P62753;P46782;P62891;P62861;P18077;P46779;P62917;P39023;P50914;P62269;P62847;P62910;P62273;P40429;P23396;P62241;P15880;P62987;P62841;P36578;P62266;P61513;P61313;P27635;P62888;Q92901;P35268;P62945;P46776;P46783;P62701;P62899;P47914;P62906;P05386;P61353;P39019;P62424;P24534;P62829;P62280;Q07020;P62263;P62854;P60866;P26373;P05387;P61927}  
9946 Pathogen[ P0C206] interacts with 94 human partners: {P40429;P61313;Q8NHW5;P27635;Q9GZV4;P18124;Q6IS14;P62854;P49207;P62081;P30050;P62241;P62244;P50914;P08865;P62750;P18621;P46781;P62266;Q02543;Q658K8;Q07020;P83881;P46778;P62263;P62273;Q02878;P62280;P26641;P62857;P62851;P62910;P26640;P46782;P61247;P18077;P62913;P61927;P61353;P62888;P43897;P36578;P62861;P35268;P23396;P39023;P32969;P62701;P05386;P22090;P84098;P62945;P26373;P46777;P05388;P62979;P57772;P2899;P83731;P39019;Q92901;P05387;P46783;P42766;P60866;P62841;P63241;Q9UNX3;P61513;P24534;P62277;P46776;P62906;P63173;P62987;P62891;P62269;P29692;P62753;P46779;P63220;P15880;P25398;P08708;P47914;P68104;P62847;P61254;P42677;P62829;P62249;P62424;Q9Y3U8;P62917}  
9947 Pathogen[ P03363] interacts with 92 human partners: {P62913;P43897;P18621;P05386;Q8NHW5;Q9GZV4;P62750;P23396;P42677;P63173;P08865;P62847;P18077;P05387;P84098;P42766;P62249;P05388;P36578;P62753;P62081;P62910;P61513;P46776;P61254;P62273;P32969;Q92901;P46778;P61927;P62891;P61353;P08708;P15880;P57772;P26373;P83881;P22090;P62861;P62841;Q9UNX3;P30050;P62829;P26641;P46782;P35268;P29692;P46781;P50914;P63220;P61313;P39019;P46779;Q02543;P46777;P62987;P25398;P83731;P62851;P62280;Q9Y3U8;P62888;P63241;P62244;P62277;P62906;P62266;P62945;P49207;P62241;P62424;P60866;P61247;P24534;P62899;P62857;Q02878;Q6IS14;Q07020;P39023;P62854;P62917;P18124;P40429;P27635;P62263;P47914;P62701;Q658K8;P68104;P62269;P46783}  
9948 [Cluster 905]GO:0010631+P biological\_process [name] epithelial cell migration [def] "The orderly movement of epithelial cells from one site to another, often during the development of a multicellular organism." [GOC  
9949 Pathogen[ Q2Q067] interacts with 1 human partners: {Q8WY41}  
9950 Pathogen[ P0C214] interacts with 1 human partners: {Q8WY41}  
9951 Pathogen[ P03346] interacts with 1 human partners: {Q8WY41}  
9952 Pathogen[ Q85601] interacts with 1 human partners: {Q8WY41}  
9953 Pathogen[ P14079] interacts with 1 human partners: {Q8WY41}  
9954 Pathogen[ P03383] interacts with 1 human partners: {Q8WY41}  
9955 Pathogen[ P03410] interacts with 1 human partners: {Q8WY41}  
9956 Pathogen[ P14075] interacts with 1 human partners: {Q8WY41}  
9957 Pathogen[ P0C206] interacts with 1 human partners: {Q8WY41}  
9958 Pathogen[ P03363] interacts with 1 human partners: {Q8WY41}  
9959 [Cluster 906]GO:0030888+P biological\_process [name] regulation of B cell proliferation [def] "Any process that modulates the frequency, rate or extent of B cell proliferation." [GOC  
9960 Pathogen[ Q2Q067] interacts with 2 human partners: {P35869;Q9UKT9}  
9961 Pathogen[ P0C214] interacts with 2 human partners: {P35869;Q9UKT9}  
9962 Pathogen[ P03346] interacts with 2 human partners: {Q9UKT9;P35869}  
9963 Pathogen[ Q85601] interacts with 2 human partners: {P35869;Q9UKT9}  
9964 Pathogen[ P14079] interacts with 2 human partners: {P35869;Q9UKT9}  
9965 Pathogen[ P03383] interacts with 2 human partners: {Q9UKT9;P35869}  
9966 Pathogen[ P03410] interacts with 1 human partners: {Q9UKT9}  
9967 Pathogen[ P14075] interacts with 2 human partners: {P35869;Q9UKT9}  
9968 Pathogen[ P0C206] interacts with 2 human partners: {P35869;Q9UKT9}  
9969 Pathogen[ P03363] interacts with 2 human partners: {P35869;Q9UKT9}  
9970 [Cluster 907]GO:0060391+P biological\_process [name] positive regulation of SMAD protein import into nucleus [def] "Any process that increases the rate, frequency or extent of SMAD protein import into the nucleus, i.e. the directed movement of a SMAD

proteins from the cytoplasm into the nucleus. Pathway-restricted SMAD proteins and common-partner SMAD proteins are involved in the transforming growth factor beta receptor signaling pathways." [GOC

9971 Pathogen[ Q2Q067] interacts with 3 human partners:{Q13485;Q01860;Q93062}

9972 Pathogen[ P0C214] interacts with 3 human partners:{Q13485;Q93062;Q01860}

9973 Pathogen[ P03346] interacts with 3 human partners:{Q93062;Q01860;Q13485}

9974 Pathogen[ Q85601] interacts with 3 human partners:{Q13485;Q01860;Q93062}

9975 Pathogen[ P14079] interacts with 2 human partners:{Q93062;Q01860}

9976 Pathogen[ P03383] interacts with 3 human partners:{Q13485;Q01860;Q93062}

9977 Pathogen[ P03410] interacts with 3 human partners:{Q93062;Q01860;Q13485}

9978 Pathogen[ P14075] interacts with 3 human partners:{Q01860;Q93062;Q13485}

9979 Pathogen[ P0C206] interacts with 3 human partners:{Q01860;Q13485;Q93062}

9980 Pathogen[ P03363] interacts with 2 human partners:{Q13485;Q01860}

9981 [Cluster 908]GO:0006488+P biological\_process [name] dolichol-linked oligosaccharide biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of dolichol-linked oligosaccharide, usually by a stepwise addition of glycosyl chains to endoplasmic reticulum membrane-bound dolichol-P." [GOC

9982 Pathogen[ Q2Q067] interacts with 3 human partners:{P34949;O95394;Q16222}

9983 Pathogen[ P0C214] interacts with 5 human partners:{Q16222;P34949;O95394;O15305;Q96EK6}

9984 Pathogen[ P03346] interacts with 3 human partners:{Q16222;O95394;P34949}

9985 Pathogen[ Q85601] interacts with 4 human partners:{P34949;Q16222;Q96EK6;O95394}

9986 Pathogen[ P14079] interacts with 10 human partners:{Q16222;O15305;Q9BT22;O94777;O75352;Q9P2X0;O95394;P34949;Q96AA3;Q96EK6}

9987 Pathogen[ P03383] interacts with 2 human partners:{P34949;O95394}

9988 Pathogen[ P03410] interacts with 9 human partners:{Q16222;P34949;O94777;Q96EK6;Q9BT22;O15305;O75352;O95394;Q9P2X0}

9989 Pathogen[ P14075] interacts with 4 human partners:{O94777;P34949;O95394;Q96EK6}

9990 Pathogen[ P0C206] interacts with 5 human partners:{Q16222;O95394;O94777;P34949;Q96EK6}

9991 Pathogen[ P03363] interacts with 1 human partners:{Q16222}

9992 [Cluster 909]GO:0007599+P biological\_process [name] hemostasis [def] "The stopping of bleeding (loss of body fluid) or the arrest of the circulation to an organ or part." [ISBN

9993 Pathogen[ Q2Q067] interacts with 6 human partners:{Q9NQG7;Q01543;P01009;P20073;Q16621;P06744}

9994 Pathogen[ P0C214] interacts with 7 human partners:{Q9NQG7;Q9UK55;Q16621;P05546;Q01543;P01008;P20073}

9995 Pathogen[ P03346] interacts with 6 human partners:{Q9NQG7;Q16621;P20073;P01009;P06744;Q01543}

9996 Pathogen[ Q85601] interacts with 7 human partners:{Q9NQG7;Q16621;P06744;P01009;Q01543;P20073;P01008}

9997 Pathogen[ P14079] interacts with 7 human partners:{Q9NQG7;P06744;P08758;Q01543;Q16621;P20073;P13928}

9998 Pathogen[ P03383] interacts with 7 human partners:{Q9NQG7;P01009;P01008;P06744;Q16621;Q01543;P20073}

9999 Pathogen[ P03410] interacts with 6 human partners:{Q9NQG7;P06744;Q16621;P20073;P01009;Q01543}

10000 Pathogen[ P14075] interacts with 6 human partners:{Q9NQG7;P06744;Q01543;P01009;P20073;Q16621}

10001 Pathogen[ P0C206] interacts with 7 human partners:{Q9NQG7;P01008;P01009;P06744;Q16621;P20073;Q01543}

10002 Pathogen[ P03363] interacts with 5 human partners:{Q9NQG7;P06744;Q01543;Q16621;P20073}

10003 [Cluster 910]GO:0035924+P biological\_process [name] cellular response to vascular endothelial growth factor stimulus [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a vascular endothelial growth factor stimulus." [GOC

10004 Pathogen[ Q2Q067] interacts with 3 human partners:{P04792;P13640;P22736}

10005 Pathogen[ P0C214] interacts with 2 human partners:{P04792;P13640}

10006 Pathogen[ P03346] interacts with 3 human partners:{P13640;P22736;P04792}

10007 Pathogen[ Q85601] interacts with 3 human partners:{P22736;P04792;P13640}

10008 Pathogen[ P14079] interacts with 5 human partners:{P22736;O60895;P54826;P13640;P04792}

10009 Pathogen[ P03383] interacts with 2 human partners:{P13640;P04792}

10010 Pathogen[ P03410] interacts with 5 human partners:{O60895;P04792;P13640;P22736;P54826}

10011 Pathogen[ P14075] interacts with 3 human partners:{P04792;P13640;P54826}

10012 Pathogen[ P0C206] interacts with 4 human partners:{P13640;P04792;P22736;P54826}

10013 Pathogen[ P03363] interacts with 2 human partners:{P13640;P04792}

10014 [Cluster 911]GO:0060396+P biological\_process [name] growth hormone receptor signaling pathway [def] "The series of molecular signals generated as a consequence of growth hormone receptor binding to its physiological ligand." [GOC

10015 Pathogen[ Q2Q067] interacts with 3 human partners:{P40763;O14508;P27986}

10016 Pathogen[ P0C214] interacts with 3 human partners:{O14508;P40763;P27986}

10017 Pathogen[ P03346] interacts with 3 human partners:{O14508;P40763;P27986}

10018 Pathogen[ Q85601] interacts with 3 human partners:{P40763;O14508;P27986}  
10019 Pathogen[ P14079] interacts with 2 human partners:{O14508;P49023}  
10020 Pathogen[ P03383] interacts with 1 human partners:{P27986}  
10021 Pathogen[ P03410] interacts with 3 human partners:{P27986;O14508;P40763}  
10022 Pathogen[ P14075] interacts with 1 human partners:{P27986}  
10023 Pathogen[ P0C206] interacts with 3 human partners:{P27986;O14508;P40763}  
10024 Pathogen[ P03363] interacts with 2 human partners:{O14508;P27986}  
10025 [Cluster 912]GO:0006011+P biological\_process [name] UDP-glucose metabolic process  
[def] "The chemical reactions and pathways involving UDP-glucose,  
uridinediphosphoglucose, a substance composed of glucose in glycosidic linkage with  
uridine diphosphate." [GOC  
10026 Pathogen[ Q2Q067] interacts with 1 human partners:{Q16851}  
10027 Pathogen[ P0C214] interacts with 1 human partners:{Q16851}  
10028 Pathogen[ P03346] interacts with 1 human partners:{Q16851}  
10029 Pathogen[ Q85601] interacts with 1 human partners:{Q16851}  
10030 Pathogen[ P14079] interacts with 1 human partners:{Q16851}  
10031 Pathogen[ P03383] interacts with 1 human partners:{Q16851}  
10032 Pathogen[ P03410] interacts with 1 human partners:{Q16851}  
10033 Pathogen[ P14075] interacts with 1 human partners:{Q16851}  
10034 Pathogen[ P0C206] interacts with 1 human partners:{Q16851}  
10035 Pathogen[ P03363] interacts with 1 human partners:{Q16851}  
10036 [Cluster 913]GO:0032962+P biological\_process [name] positive regulation of inositol  
trisphosphate biosynthetic process [def] "Any process that activates or increases the  
frequency, rate or extent of the chemical reactions and pathways resulting in the  
formation of inositol trisphosphate." [GOC  
10037 Pathogen[ Q2Q067] interacts with 1 human partners:{P28069}  
10038 Pathogen[ P0C214] interacts with 1 human partners:{P28069}  
10039 Pathogen[ P03346] interacts with 1 human partners:{P28069}  
10040 Pathogen[ Q85601] interacts with 1 human partners:{P28069}  
10041 Pathogen[ P14079] interacts with 1 human partners:{P28069}  
10042 Pathogen[ P03383] interacts with 1 human partners:{P28069}  
10043 Pathogen[ P03410] interacts with 1 human partners:{P28069}  
10044 Pathogen[ P14075] interacts with 1 human partners:{P28069}  
10045 Pathogen[ P0C206] interacts with 1 human partners:{P28069}  
10046 Pathogen[ P03363] interacts with 1 human partners:{P28069}  
10047 [Cluster 914]GO:0045014+P biological\_process [name] negative regulation of  
transcription by glucose [def] "Any process involving glucose that stops, prevents or  
reduces the rate of transcription. The presence of glucose in the growth medium inhibits  
the synthesis of certain enzymes in bacteria growing on the medium. For example,  
transcription of some catabolic operons is under negative control by specific repressors  
and glucose is an anti-inducer of xylose utilization and glycerol kinase." [ISBN  
10048 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9HD42}  
10049 Pathogen[ P0C214] interacts with 1 human partners:{Q9HD42}  
10050 Pathogen[ P03346] interacts with 1 human partners:{Q9HD42}  
10051 Pathogen[ Q85601] interacts with 1 human partners:{Q9HD42}  
10052 Pathogen[ P14079] interacts with 1 human partners:{Q9HD42}  
10053 Pathogen[ P03383] interacts with 1 human partners:{Q9HD42}  
10054 Pathogen[ P03410] interacts with 1 human partners:{Q9HD42}  
10055 Pathogen[ P14075] interacts with 1 human partners:{Q9HD42}  
10056 Pathogen[ P0C206] interacts with 1 human partners:{Q9HD42}  
10057 Pathogen[ P03363] interacts with 1 human partners:{Q9HD42}  
10058 [Cluster 915]GO:0043491+P biological\_process [name] protein kinase B signaling  
cascade [def] "A series of reactions, mediated by the intracellular serine/threonine  
kinase protein kinase B, which occurs as a result of a single trigger reaction or  
compound." [GOC  
10059 Pathogen[ Q2Q067] interacts with 2 human partners:{P31749;Q5T1C6}  
10060 Pathogen[ P0C214] interacts with 2 human partners:{Q5T1C6;P31749}  
10061 Pathogen[ P03346] interacts with 1 human partners:{P31749}  
10062 Pathogen[ Q85601] interacts with 2 human partners:{P31749;Q5T1C6}  
10063 Pathogen[ P14079] interacts with 2 human partners:{P31751;Q5T1C6}  
10064 Pathogen[ P03383] interacts with 2 human partners:{P31749;Q5T1C6}  
10065 Pathogen[ P03410] interacts with 2 human partners:{P31749;Q5T1C6}  
10066 Pathogen[ P14075] interacts with 2 human partners:{Q5T1C6;P31749}  
10067 Pathogen[ P0C206] interacts with 2 human partners:{P31749;Q5T1C6}  
10068 Pathogen[ P03363] interacts with 1 human partners:{P31749}  
10069 [Cluster 916]GO:0031053+P biological\_process [name] primary miRNA processing [def]  
"Any process involved in the conversion of a primary microRNA transcript into a  
pre-microRNA molecule." [GOC  
10070 Pathogen[ Q2Q067] interacts with 5 human  
partners:{Q8WYQ5;P84022;Q15796;Q15797;Q9BXP5}  
10071 Pathogen[ P0C214] interacts with 5 human  
partners:{P84022;Q15796;Q15797;Q8WYQ5;Q9BXP5}  
10072 Pathogen[ P03346] interacts with 5 human  
partners:{Q15797;Q15796;Q9BXP5;P84022;Q8WYQ5}  
10073 Pathogen[ Q85601] interacts with 5 human  
partners:{Q15797;Q8WYQ5;Q9BXP5;P84022;Q15796}

10074 Pathogen[ P14079] interacts with 3 human partners:{Q15797;Q8WYQ5;Q9BXP5}  
10075 Pathogen[ P03383] interacts with 5 human  
partners:{Q8WYQ5;Q15797;P84022;Q15796;Q9BXP5}  
10076 Pathogen[ P03410] interacts with 5 human  
partners:{P84022;Q9BXP5;Q8WYQ5;Q15797;Q15796}  
10077 Pathogen[ P14075] interacts with 4 human partners:{Q15796;Q9BXP5;P84022;Q8WYQ5}  
10078 Pathogen[ P0C206] interacts with 5 human  
partners:{P84022;Q15796;Q9BXP5;Q15797;Q8WYQ5}  
10079 Pathogen[ P03363] interacts with 5 human  
partners:{Q9BXP5;Q15797;Q15796;P84022;Q8WYQ5}  
10080 [Cluster 917]GO:0070842+P biological\_process [name] aggresome assembly [def] "The  
aggregation, arrangement and bonding together of a set of components to form an  
aggresome\_ requires the microtubule cytoskeleton and dynein." [GOC  
10081 Pathogen[ Q2Q067] interacts with 2 human partners:{O60260;O15205}  
10082 Pathogen[ P0C214] interacts with 3 human partners:{O15205;O60260;P55072}  
10083 Pathogen[ P03346] interacts with 4 human partners:{P55072;O94972;O15205;O60260}  
10084 Pathogen[ Q85601] interacts with 2 human partners:{O15205;O60260}  
10085 Pathogen[ P14079] interacts with 2 human partners:{O60260;O15205}  
10086 Pathogen[ P03383] interacts with 2 human partners:{O60260;O15205}  
10087 Pathogen[ P03410] interacts with 2 human partners:{O15205;O60260}  
10088 Pathogen[ P14075] interacts with 2 human partners:{O60260;O15205}  
10089 Pathogen[ P0C206] interacts with 3 human partners:{O15205;O60260;P55072}  
10090 Pathogen[ P03363] interacts with 2 human partners:{O15205;O94972}  
10091 [Cluster 918]GO:0048311+P biological\_process [name] mitochondrion distribution  
[def] "Any process that establishes the spatial arrangement of mitochondria between and  
within cells." [GOC  
10092 Pathogen[ Q2Q067] interacts with 2 human partners:{Q86WG3;Q02078}  
10093 Pathogen[ P0C214] interacts with 3 human partners:{Q02078;Q9BUK6;Q86WG3}  
10094 Pathogen[ P03346] interacts with 3 human partners:{Q02078;Q9BUK6;Q86WG3}  
10095 Pathogen[ Q85601] interacts with 3 human partners:{Q02078;Q86WG3;Q9BUK6}  
10096 Pathogen[ P14079] interacts with 3 human partners:{Q02078;Q86WG3;Q9BUK6}  
10097 Pathogen[ P03383] interacts with 2 human partners:{Q86WG3;Q02078}  
10098 Pathogen[ P03410] interacts with 3 human partners:{Q86WG3;Q9BUK6;Q02078}  
10099 Pathogen[ P14075] interacts with 2 human partners:{Q86WG3;Q02078}  
10100 Pathogen[ P0C206] interacts with 3 human partners:{Q02078;Q9BUK6;Q86WG3}  
10101 Pathogen[ P03363] interacts with 2 human partners:{Q86WG3;Q02078}  
10102 [Cluster 919]GO:0048496+P biological\_process [name] maintenance of organ identity  
[def] "The process in which the identity of an organ is maintained. Identity is  
considered to be the aggregate of characteristics by which a structure is recognized."  
[GOC  
10103 Pathogen[ Q2Q067] interacts with 1 human partners:{Q15051}  
10104 Pathogen[ P0C214] interacts with 1 human partners:{Q15051}  
10105 Pathogen[ P03346] interacts with 1 human partners:{Q15051}  
10106 Pathogen[ Q85601] interacts with 1 human partners:{Q15051}  
10107 Pathogen[ P14079] interacts with 1 human partners:{Q15051}  
10108 Pathogen[ P03383] interacts with 1 human partners:{Q15051}  
10109 Pathogen[ P03410] interacts with 1 human partners:{Q15051}  
10110 Pathogen[ P14075] interacts with 1 human partners:{Q15051}  
10111 Pathogen[ P0C206] interacts with 1 human partners:{Q15051}  
10112 Pathogen[ P03363] interacts with 1 human partners:{Q15051}  
10113 [Cluster 920]GO:0090090+P biological\_process [name] negative regulation of canonical  
Wnt receptor signaling pathway [def] "Any process that decreases the rate, frequency,  
or extent of the Wnt receptor signaling pathway through beta-catenin, the series of  
molecular signals initiated by binding of a Wnt protein to a frizzled family receptor on  
the surface of the target cell, followed by propagation of the signal via beta-catenin,  
and ending with a change in transcription of target genes." [GOC  
10114 Pathogen[ Q2Q067] interacts with 19 human  
partners:{O43255;P08151;Q8N7J2;P35638;Q5JTC6;Q99471;P42568;Q9Y3M2;Q9NYF0;Q9UGP4;P566  
93;Q96MT3;Q92769;Q9GZV5;Q04725;O95996;P23508;P18146;O60716}  
10115 Pathogen[ P0C214] interacts with 18 human  
partners:{Q9UGP4;O60716;P56693;Q9GZV5;P42568;Q96MT3;Q9Y3M2;Q92769;P18146;Q04725;Q994  
71;Q8N7J2;P08151;P23508;O43255;Q9NYF0;Q5JTC6;P35638}  
10116 Pathogen[ P03346] interacts with 25 human  
partners:{Q9Y283;Q9UGP4;O60716;Q9Y3M2;P35638;P23508;Q99471;Q8N7J2;Q9GZV5;P56693;O432  
55;Q969G9;Q6P3W7;Q96MT3;Q06190;Q92769;Q04725;Q9Y2G4;O95996;Q9NYF0;P42568;Q969F2;P181  
46;Q5JTC6;P08151}  
10117 Pathogen[ Q85601] interacts with 21 human  
partners:{P18146;P08151;P42568;Q9Y3M2;P23508;Q99471;Q9Y283;Q9NYF0;Q9GZV5;Q96MT3;O607  
16;Q04725;Q92769;Q9NQC7;Q5JTC6;P56693;O95996;Q9UGP4;Q8N7J2;O43255;P35638}  
10118 Pathogen[ P14079] interacts with 20 human  
partners:{Q04725;P08151;Q9GZV5;Q8N7J2;P42568;Q92769;P23508;O95996;P35638;P56693;Q061  
90;Q9Y3M2;Q9Y283;Q99471;Q5JTC6;Q96MT3;Q9NQC7;O60716;Q9UGP4;Q9NYF0}  
10119 Pathogen[ P03383] interacts with 17 human  
partners:{O60716;Q96MT3;P35638;P18146;P42568;Q92769;Q9UGP4;Q04725;Q8N7J2;Q99471;Q5JT  
C6;Q9Y3M2;O43255;Q9NYF0;P23508;P56693;Q9GZV5}  
10120 Pathogen[ P03410] interacts with 23 human

- partners: {Q969F2;P35638;Q9Y3M2;Q9UGP4;O60716;Q9Y283;Q9BQB4;Q06190;P23508;Q9GZV5;Q9Y2G4;Q99471;Q92769;O95996;Q969G9;P56693;P42568;Q9NYF0;Q5JTC6;Q8N7J2;P18146;Q96MT3;Q04725}
- 10121 Pathogen[ P14075] interacts with 17 human  
partners: {Q9GZV5;Q96MT3;Q04725;Q9UGP4;P18146;P35638;P42568;P56693;O43255;Q8N7J2;Q92769;Q5JTC6;P23508;Q9Y3M2;O60716;Q9NYF0;Q99471}
- 10122 Pathogen[ P0C206] interacts with 25 human  
partners: {Q9NQC7;O60716;Q06190;Q92769;O43255;Q969F2;Q96MT3;Q9UGP4;Q9Y2G4;Q04725;P56693;Q99471;O95996;Q6P3W7;Q9Y283;P18146;Q9GZV5;Q8N7J2;P42568;Q9NYF0;P08151;P35638;Q969G9;Q5JTC6;P23508}
- 10123 Pathogen[ P03363] interacts with 22 human  
partners: {Q5JTC6;O95996;P18146;P08151;Q96MT3;Q06190;Q969G9;Q9Y3M2;Q9NYF0;Q99471;P23508;Q9UGP4;P56693;Q9GZV5;P35638;Q9Y283;Q04725;P42568;O43255;O60716;Q9Y2G4;Q8N7J2}
- 10124 [Cluster 921]GO:0019058+P biological\_process [name] viral infectious cycle [def] "A set of processes which all viruses follow to ensure survival\_ includes attachment and entry of the virus particle, decoding of genome information, translation of viral mRNA by host ribosomes, genome replication, and assembly and release of viral particles containing the genome." [ISBN
- 10125 Pathogen[ Q2Q067] interacts with 87 human  
partners: {Q14974;P61313;P62701;O95639;Q86U42;P47914;P46779;Q02543;P26373;P62750;P62273;P62826;P15880;P40429;P46782;P35268;P22090;P46778;P62888;P32969;P62277;P62241;P62244;P05387;P62861;P42766;P05386;Q9UNX3;P30050;P18077;P62891;P61927;P39023;P62081;P61247;O14980;P61254;P62249;P62280;P83731;P62263;P60866;P62906;Q02878;P46777;P62899;P08708;P08865;Q07020;P62913;P62269;P62424;P62917;P62829;P46783;P36578;P62857;P62847;P49207;P23396;P63173;P18621;P39019;P61353;P62266;P42677;Q9Y3U8;P63220;P62841;P83881;P62987;P50914;P46776;P62854;P62753;P05388;P52294;P18124;P62851;P25398;P62910;Q92901;P46781;P27635;P61513;P62945;P62979}
- 10126 Pathogen[ P0C214] interacts with 85 human  
partners: {P62861;P84098;P61247;P15880;P62081;P42766;P62913;P22090;Q92901;P62249;P62899;P62854;P39019;P62263;P62273;P23396;P18077;P05388;P62847;P62829;P26373;P27635;P46778;P61513;P83881;P62701;P49207;P63220;P08865;P32969;Q02543;P62266;P62277;P50914;P46779;P40429;P47914;P63173;O14980;P46783;P52294;P62280;Q9UNX3;Q9Y3U8;P30050;P62753;P62910;P62891;P62269;P46781;P61254;O95639;P62841;P62244;P62987;P62826;Q07020;P42677;P62945;P46776;P62241;P46777;P83731;P35268;P62424;P60866;P62857;Q14974;P61313;P08708;P05387;P25398;P61927;P62750;P62979;P05386;P62851;Q86U42;P46782;P18124;P61353;P36578;P18621;P62906;Q02878}
- 10127 Pathogen[ P03346] interacts with 88 human  
partners: {P05387;O95639;P46779;Q86U42;P63173;P62917;P62249;P62913;P62861;P62277;Q02878;P62280;P39023;P62987;P61927;Q9UNX3;P62857;P46778;P49207;P62266;P61254;P62424;P62273;P83731;P60866;P62899;P35268;P62826;P62891;P08708;P46782;P61353;P62854;Q9Y3U8;P47914;O14980;P08865;P61313;P25398;P61513;P05388;P62269;Q02543;P42766;P62081;P61247;P18621;P46781;P84098;P15880;P50914;P62829;P62979;P39019;P23396;P42677;P62750;P62701;P30050;P62910;P36578;P62847;P62851;P22090;P46777;Q07020;P62263;P62841;P83881;P05386;P18077;P46776;P62241;P62753;P62945;P52294;Q92901;P32969;P26373;P18124;P40429;P27635;P46783;P62906;P62244;Q14974;P62888;P63220}
- 10128 Pathogen[ Q85601] interacts with 88 human  
partners: {P46783;P32969;P61513;P26373;P62857;P62244;P62913;P62854;P62081;P61353;P62891;P46776;P18077;P61313;P05388;P63173;P23396;P62273;P46778;P62829;P30050;P62753;P27635;P62826;P15880;P83881;Q07020;P39019;Q9Y3U8;P62701;P62241;P62424;P83731;P62899;P62945;P62263;P62861;Q02878;Q14974;P39023;P61254;P49207;P62910;P62249;P62280;P47914;P84098;P08708;P42766;P62269;P18621;P05387;Q9UNX3;P62277;P35268;O14980;P62979;P62847;P42677;P63220;O95639;P46782;P46779;P62750;P62851;P62841;P62987;P22090;P61927;P36578;P05386;Q86U42;P08865;P61247;P52294;P46777;P62917;Q92901;P18124;P46781;P25398;P60866;Q02543;P62906;P50914;P62266;P40429;P62888}
- 10129 Pathogen[ P14079] interacts with 87 human  
partners: {Q9Y3U8;P27635;P84098;P46779;P26373;P23396;P40429;P18621;P83881;Q9UNX3;P46781;P83731;P61513;P62847;P62753;P39023;P62273;P25398;P52294;P18077;P46783;P61254;P50914;O95639;P62979;P62841;P18124;P42766;P62266;P61550;P46782;P62987;P62241;P32969;P22090;P62829;P60866;P62854;Q07020;P39019;P63220;P49207;P62244;P62263;Q02543;P62424;Q92901;P62277;P62750;P62910;P63173;P46776;P08708;Q14974;Q86U42;P36578;P62906;P47914;P62280;P62899;P61353;P62081;P62945;P46777;P42677;P30050;P15880;P62891;P62888;P08865;P61927;P62917;P46778;P62249;P62826;P05386;P35268;P62913;P05387;P61247;P62269;P62701;P61313;P62851;P05388;P62857;P62861}
- 10130 Pathogen[ P03383] interacts with 87 human  
partners: {P42766;P36578;P05388;P62266;P39019;P26373;P62913;P62945;P62854;P40429;P62987;P62891;P25398;P62280;Q07020;P62750;P05387;P62249;P62888;P62899;P61927;P46777;P46779;P49207;P83731;P62424;P18124;P46778;Q92901;P62753;P42677;P61247;P83881;P47914;P62917;P62273;Q9UNX3;P30050;P84098;P62826;P32969;P62277;P18077;P63173;P62081;P61313;O14980;P08865;P62851;P46782;P62269;P63220;Q02543;P62244;Q02878;P62910;P27635;Q14974;P62857;P62906;P46783;Q9Y3U8;P60866;P61254;P62979;P62241;P46781;P39023;P62841;P22090;P62701;P62829;P62263;P62847;P35268;P05386;P50914;Q86U42;P62861;P18621;P52294;P46776;P15880;P23396;P61513;P08708;P61353}
- 10131 Pathogen[ P03410] interacts with 89 human  
partners: {P62861;P05386;Q02543;P61247;P62241;P62829;P49207;P26373;P61513;O95639;P61550;Q14974;P62899;P62244;P62913;Q02878;Q92901;P15880;P46777;P46776;P62841;P52294;P30050;P05388;P46781;P18124;P62269;Q07020;P63220;P62910;P62847;P62906;P23396;P18621;P622

- 66;P62249;P63173;P50914;P62280;P22090;P61313;P62979;P62701;P62750;P08865;Q9UNX3;P62277;P36578;P18077;P25398;P61927;P84098;P62854;P62826;P62273;P62081;P46783;Q9Y3U8;P08708;P46782;P32969;P46779;P27635;P62987;P62857;P62263;P62424;P62888;P61254;P46778;P62945;P05387;P42766;P39019;P47914;Q86U42;P40429;P39023;P62917;P62851;P83731;P35268;P61353;P62891;P62753;O14980;P83881;P60866;P42677}
- 10132 Pathogen[ P14075] interacts with 87 human  
partners: {P42766;P49207;P62857;P46781;P63220;P32969;P42677;P62913;P22090;Q02878;P62277;P62851;P08865;P62244;P08708;P61254;P46778;P05388;P83881;P46777;Q9Y3U8;P62249;P62081;P62750;P18621;Q02543;P18124;Q9UNX3;P25398;O14980;P63173;P30050;P52294;P62979;P83731;P84098;P61247;P62753;P46782;P62891;P62861;P18077;P46779;P62917;P39023;P50914;P62269;P62847;P62910;P62273;P40429;P23396;P62241;P15880;P62826;P62987;P62841;P36578;P62266;P61513;P61313;P27635;P62888;Q92901;P35268;P62945;P46776;P46783;Q14974;P62701;P62899;P47914;P62906;P05386;Q86U42;P61353;P39019;P62424;P62829;P62280;Q07020;P62263;P62854;P60866;P26373;P05387;P61927}
- 10133 Pathogen[ P0C206] interacts with 87 human  
partners: {P40429;P61313;P27635;P18124;P62854;P49207;P62081;P30050;P62241;P62244;P50914;P08865;P62750;P18621;P46781;P62266;Q02543;Q14974;Q07020;P83881;P46778;P62263;P62273;Q86U42;Q02878;P62826;P62280;P62857;P62851;P62910;P46782;P61247;P18077;P62913;P61927;P61353;P62888;P36578;P62861;P35268;P23396;P39023;P32969;P62701;P05386;P22090;P84098;P62945;P26373;P46777;P05388;P62979;P62899;P83731;P39019;Q92901;P05387;P46783;P42766;P60866;P62841;Q9UNX3;Q95639;P61513;P62277;P46776;P62906;P63173;P62987;P62891;P62269;P62753;P46779;P52294;P63220;P15880;P25398;P08708;P47914;P62847;P61254;P42677;P62829;P62249;P62424;Q9Y3U8;P62917}
- 10134 Pathogen[ P03363] interacts with 86 human  
partners: {P62913;P18621;P05386;P62750;P23396;P42677;P63173;P08865;P62847;P18077;P05387;P84098;P42766;P62249;P05388;P36578;P62753;P62081;P62910;P61513;P46776;O14980;P61254;P62273;P32969;Q92901;P46778;P61927;P62891;P61353;P08708;P15880;Q86U42;P26373;P83881;P22090;P62861;P62841;Q9UNX3;P30050;P62829;P46782;P35268;P46781;P50914;P63220;P61313;P39019;P46779;Q02543;P46777;P62987;Q14974;P25398;P83731;P62851;P62280;Q9Y3U8;P62888;P62244;P62277;P62906;P62266;P62945;P49207;P62241;P62424;P60866;P61247;P62899;P62857;Q02878;Q07020;P39023;P62854;P62826;P62917;P18124;P40429;P27635;P62263;P47914;P62701;P62269;P46783;P52294}
- 10135 [Cluster 922]GO:0042176+P biological\_process [name] regulation of protein catabolic process [def] "Any process that modulates the frequency, rate or extent of the chemical reactions and pathways resulting in the breakdown of a protein by the destruction of the native, active configuration, with or without the hydrolysis of peptide bonds." [GOC]
- 10136 Pathogen[ Q2Q067] interacts with 11 human  
partners: {Q99460;Q13200;P67775;O14980;O96017;Q9UNN5;Q96PU5;P60953;O14964;O43242;Q00987}
- 10137 Pathogen[ P0C214] interacts with 12 human  
partners: {Q00987;O43242;O14964;P60953;Q13200;Q99460;O14980;O96017;Q9UNN5;P67775;P68543;Q96PU5}
- 10138 Pathogen[ P03346] interacts with 13 human  
partners: {Q96PU5;O96017;Q99460;P60953;P67775;Q00987;O00327;O14980;Q9UNN5;Q13200;O14964;O43242;P68543}
- 10139 Pathogen[ Q85601] interacts with 11 human  
partners: {O96017;O00327;Q96PU5;Q9UNN5;Q13200;O14964;O14980;P67775;Q99460;P60953;Q00987}
- 10140 Pathogen[ P14079] interacts with 5 human  
partners: {Q00987;Q9UNN5;Q99460;P68543;O43242}
- 10141 Pathogen[ P03383] interacts with 8 human  
partners: {P60953;P67775;Q9UNN5;O14980;Q99460;Q13200;O14964;O96017}
- 10142 Pathogen[ P03410] interacts with 10 human  
partners: {Q9UNN5;Q99460;P68543;Q13200;O96017;P60953;Q00987;P67775;O43242;O14980}
- 10143 Pathogen[ P14075] interacts with 7 human  
partners: {P60953;Q13200;O14980;O14964;Q9UNN5;O96017;P67775}
- 10144 Pathogen[ P0C206] interacts with 12 human  
partners: {Q9UNN5;O14964;Q96PU5;O96017;P68543;P67775;O43242;O00327;Q13200;Q99460;P60953;Q00987}
- 10145 Pathogen[ P03363] interacts with 8 human  
partners: {Q9UNN5;O14980;O96017;Q96PU5;O00327;O14964;P60953;P67775}
- 10146 [Cluster 923]GO:0009952+P biological\_process [name] anterior/posterior pattern specification [def] "The regionalization process in which specific areas of cell differentiation are determined along the anterior-posterior axis. The anterior-posterior axis is defined by a line that runs from the head or mouth of an organism to the tail or opposite end of the organism." [GOC]
- 10147 Pathogen[ Q2Q067] interacts with 39 human  
partners: {Q13562;O43365;P25490;O43364;P09067;O60481;Q13485;P35680;P31274;P31268;Q05516;P17483;P28356;P17482;P09017;O43248;P35227;P09629;P42568;Q00444;P35548;P20719;Q15699;Q00056;P31276;Q9NSA3;O75533;P14651;Q15796;P49639;P09016;P14652;Q04743;P14653;Q06587;Q12830;P40424;P31260;P78543}
- 10148 Pathogen[ P0C214] interacts with 24 human  
partners: {P40424;P32243;O43365;P35227;P49639;P31249;P78543;P42568;P17482;P14651;O43248;Q9NSA3;Q06587;P14653;Q13485;Q15796;O75533;P09629;Q15699;P35548;Q05516;Q12830;P31276;O60481}
- 10149 Pathogen[ P03346] interacts with 59 human



partners:{P31249;P47902;Q12830;P49639;P35453;P31260;P31268;P35548;P31270;Q99626;Q00056;P25490;Q15796;Q04743;P31276;P35227;P14652;P14653;P13378;Q86Z02;P17483;P31274;P20719;O43364;O43365;Q15699;Q9NSA3;P28358;O60481;P17481;Q96GD3;P28356;P09017;P09629;P46109;P35680;O75533;P31273;O14627;P09016;P09630;Q05516;P31267;P32242;P42568;P40424;Q13485;O75593;Q13562;P32243;P78543;Q06587;P09067;P17509;Q00444;O43248;P14651;P17482;Q9HBU1}

10150 Pathogen[ Q85601] interacts with 30 human partners:{P49639;P09629;O60481;P42568;P14653;O43248;P25490;O43364;Q12830;Q13562;P31260;P40424;P78543;Q15699;P35548;P35680;P32243;Q05516;P31249;P31274;P14651;O43365;P31276;Q9NSA3;Q13485;Q06587;Q00444;Q15796;P17482;P35227}

10151 Pathogen[ P14079] interacts with 24 human partners:{P78543;O43364;O60481;P35680;O75533;P46109;Q15699;Q05516;P09629;P42568;P31276;P31274;Q12830;P31249;O43365;Q00444;P32243;Q04743;P35227;P25490;P49639;P28360;P14651;Q06587}

10152 Pathogen[ P03383] interacts with 21 human partners:{P35227;Q12830;Q13485;P32243;P40424;P17482;P31276;Q06587;O43365;Q05516;P31249;Q9NSA3;P78543;P49639;P35548;P42568;Q15796;O60481;P09629;Q15699;P14651}

10153 Pathogen[ P03410] interacts with 27 human partners:{P17482;P31274;Q9NSA3;P31276;O60481;P09629;P14651;Q12830;P31249;P35227;P25490;P35548;Q13485;O75533;O43364;Q15699;P42568;P49639;P78543;P32243;P35680;Q06587;P40424;Q04743;Q15796;P46109;O43365}

10154 Pathogen[ P14075] interacts with 19 human partners:{P17482;P40424;O60481;P35548;P42568;P31249;Q15796;O43365;Q13485;P09629;Q06587;Q12830;P78543;Q9NSA3;Q15699;P31276;Q05516;P32243;P35227}

10155 Pathogen[ P0C206] interacts with 39 human partners:{O60481;Q00444;Q9NSA3;O43365;Q04743;P09067;P25490;Q05516;P49639;O75533;P14651;P31268;P17483;Q15699;Q15796;P40424;P14653;P14652;O43248;P32243;P17482;P35680;P35548;Q06587;P42568;Q13485;Q13562;O43364;P31274;P09629;P28356;P20719;P31249;P09016;Q12830;P31260;P31276;P78543;P35227}

10156 Pathogen[ P03363] interacts with 53 human partners:{Q15699;P31273;P35453;Q12830;P47902;P09067;P31274;O60481;P35227;Q99626;P31267;O43365;P14651;P28356;O75533;P20719;P25490;P17481;P78543;P46109;P35548;P32243;O43248;P49639;P17483;P17509;P31249;P14653;P13378;Q9NSA3;P28358;Q00444;P32242;P14652;P31260;Q15796;P31268;Q00056;P09016;P31276;Q13485;P17482;P40424;P42568;P09629;Q06587;O43364;P09630;P09017;Q05516;O14627;Q9HBU1;Q04743}

10157 [Cluster 924]GO:0001675+P biological\_process [name] acrosome assembly [def] "The formation of the acrosome from the spermatid Golgi." [GOC

10158 Pathogen[ Q2Q067] interacts with 2 human partners:{P62380;Q8NG31}

10159 Pathogen[ P0C214] interacts with 2 human partners:{P62380;Q8NG31}

10160 Pathogen[ P03346] interacts with 2 human partners:{P62380;Q8NG31}

10161 Pathogen[ Q85601] interacts with 2 human partners:{Q8NG31;P62380}

10162 Pathogen[ P14079] interacts with 2 human partners:{Q8NG31;P62380}

10163 Pathogen[ P03383] interacts with 1 human partners:{Q8NG31}

10164 Pathogen[ P03410] interacts with 2 human partners:{Q8NG31;P62380}

10165 Pathogen[ P14075] interacts with 1 human partners:{Q8NG31}

10166 Pathogen[ P0C206] interacts with 2 human partners:{P62380;Q8NG31}

10167 Pathogen[ P03363] interacts with 2 human partners:{P62380;Q8NG31}

10168 [Cluster 925]GO:0048850+P biological\_process [name] hypophysis morphogenesis [def] "The process in which the anatomical structures of the hypophysis are generated and organized. The pituitary gland is an endocrine gland that secretes hormones that regulate many other glands." [GOC

10169 Pathogen[ Q2Q067] interacts with 1 human partners:{O75360}

10170 Pathogen[ P0C214] interacts with 1 human partners:{O75360}

10171 Pathogen[ P03346] interacts with 1 human partners:{O75360}

10172 Pathogen[ Q85601] interacts with 1 human partners:{O75360}

10173 Pathogen[ P14079] interacts with 1 human partners:{O75360}

10174 Pathogen[ P03383] interacts with 1 human partners:{O75360}

10175 Pathogen[ P03410] interacts with 1 human partners:{O75360}

10176 Pathogen[ P14075] interacts with 1 human partners:{O75360}

10177 Pathogen[ P0C206] interacts with 1 human partners:{O75360}

10178 Pathogen[ P03363] interacts with 1 human partners:{O75360}

10179 [Cluster 926]GO:0030325+P biological\_process [name] adrenal gland development [def] "The process whose specific outcome is the progression of the adrenal gland over time, from its formation to the mature structure. This gland can either be a discrete structure located bilaterally above each kidney, or a cluster of cells in the head kidney that perform the functions of the adrenal gland. In either case, this organ consists of two cells types, aminergic chromaffin cells and steroidogenic cortical cells." [GOC

10180 Pathogen[ Q2Q067] interacts with 3 human partners:{Q14865;Q9NSC2;P40424}

10181 Pathogen[ P0C214] interacts with 4 human partners:{P40424;O95633;Q14865;Q9NSC2}

10182 Pathogen[ P03346] interacts with 6 human partners:{Q9NSC2;P51843;Q14865;P40424;Q13285;O95633}

10183 Pathogen[ Q85601] interacts with 3 human partners:{P40424;Q14865;Q9NSC2}

10184 Pathogen[ P14079] interacts with 3 human partners:{P10109;Q14865;Q9NSC2}

10185 Pathogen[ P03383] interacts with 2 human partners:{P40424;Q9NSC2}

10186 Pathogen[ P03410] interacts with 4 human partners:{P10109;Q9NSC2;Q14865;P40424}

10187 Pathogen[ P14075] interacts with 2 human partners:{Q9NSC2;P40424}  
10188 Pathogen[ P0C206] interacts with 4 human partners:{O95633;Q9NSC2;P40424;Q14865}  
10189 Pathogen[ P03363] interacts with 2 human partners:{Q14865;P40424}  
10190 [Cluster 927]GO:0003016+P biological\_process [name] respiratory system process  
[def] "A system process carried out by the organs and tissues of the respiratory system.  
The respiratory system is an organ system responsible for respiratory gaseous exchange."  
[GOC  
10191 Pathogen[ Q2Q067] interacts with 2 human partners:{P20719;Q99608}  
10192 Pathogen[ P0C214] interacts with 1 human partners:{Q99608}  
10193 Pathogen[ P03346] interacts with 2 human partners:{P20719;Q99608}  
10194 Pathogen[ Q85601] interacts with 1 human partners:{Q99608}  
10195 Pathogen[ P14079] interacts with 1 human partners:{Q99608}  
10196 Pathogen[ P03383] interacts with 1 human partners:{Q99608}  
10197 Pathogen[ P03410] interacts with 1 human partners:{Q99608}  
10198 Pathogen[ P14075] interacts with 1 human partners:{Q99608}  
10199 Pathogen[ P0C206] interacts with 2 human partners:{Q99608;P20719}  
10200 Pathogen[ P03363] interacts with 2 human partners:{P20719;Q99608}  
10201 [Cluster 928]GO:0006349+P biological\_process [name] regulation of gene expression by  
genetic imprinting [def] "Heritable alterations in the activity of a gene that depend  
on whether it passed through the paternal or the maternal germline, but that are not  
encoded by DNA itself." [GOC  
10202 Pathogen[ Q2Q067] interacts with 7 human  
partners:{Q9NVM4;Q9Y6K1;Q9UJW3;Q9UBC3;Q8NI51;O75530;P49711}  
10203 Pathogen[ P0C214] interacts with 6 human  
partners:{Q8NI51;O75530;Q9NVM4;Q9Y6K1;P49711;Q9UJW3}  
10204 Pathogen[ P03346] interacts with 8 human  
partners:{Q8NI51;Q9Y6K1;Q9NU63;O75530;Q9UBC3;Q9NVM4;P49711;Q9UJW3}  
10205 Pathogen[ Q85601] interacts with 8 human  
partners:{Q8NI51;Q9UJW3;Q9NVM4;P49711;O75530;Q9Y6K1;Q9NU63;Q9UBC3}  
10206 Pathogen[ P14079] interacts with 8 human  
partners:{Q9Y6K1;Q9NVM4;Q9NU63;Q9UBC3;O75530;Q9UJW3;P49711;Q8NI51}  
10207 Pathogen[ P03383] interacts with 5 human  
partners:{Q8NI51;P49711;Q9UJW3;Q9Y6K1;O75530}  
10208 Pathogen[ P03410] interacts with 8 human  
partners:{Q9NVM4;P49711;Q9UBC3;Q8NI51;Q9UJW3;Q9Y6K1;Q9NU63;O75530}  
10209 Pathogen[ P14075] interacts with 5 human  
partners:{Q8NI51;Q9Y6K1;Q9UJW3;P49711;O75530}  
10210 Pathogen[ P0C206] interacts with 8 human  
partners:{O75530;Q9Y6K1;Q8NI51;Q9NVM4;P49711;Q9UBC3;Q9NU63;Q9UJW3}  
10211 Pathogen[ P03363] interacts with 7 human  
partners:{Q9Y6K1;O75530;Q8NI51;P49711;Q9NVM4;Q9UJW3;Q9UBC3}  
10212 [Cluster 929]GO:0022607+P biological\_process [name] cellular component assembly  
[def] "The aggregation, arrangement and bonding together of a cellular component." [GOC  
10213 Pathogen[ Q2Q067] interacts with 1 human partners:{Q86U70}  
10214 Pathogen[ P0C214] interacts with 1 human partners:{Q86U70}  
10215 Pathogen[ P03346] interacts with 1 human partners:{Q86U70}  
10216 Pathogen[ Q85601] interacts with 1 human partners:{Q86U70}  
10217 Pathogen[ P14079] interacts with 1 human partners:{Q86U70}  
10218 Pathogen[ P03383] interacts with 1 human partners:{Q86U70}  
10219 Pathogen[ P03410] interacts with 1 human partners:{Q86U70}  
10220 Pathogen[ P14075] interacts with 1 human partners:{Q86U70}  
10221 Pathogen[ P0C206] interacts with 1 human partners:{Q86U70}  
10222 Pathogen[ P03363] interacts with 1 human partners:{Q86U70}  
10223 [Cluster 930]GO:0010991+P biological\_process [name] negative regulation of SMAD  
protein complex assembly [def] "Any process that decreases the rate, frequency, or  
extent of SMAD protein complex assembly. SMAD protein complex assembly is the  
aggregation, arrangement and bonding together of a set of components to form a protein  
complex that contains SMAD proteins." [GOC  
10224 Pathogen[ Q2Q067] interacts with 2 human partners:{O43541;P35813}  
10225 Pathogen[ P0C214] interacts with 2 human partners:{P35813;O43541}  
10226 Pathogen[ P03346] interacts with 2 human partners:{P35813;O43541}  
10227 Pathogen[ Q85601] interacts with 2 human partners:{O43541;P35813}  
10228 Pathogen[ P14079] interacts with 2 human partners:{P35813;O43541}  
10229 Pathogen[ P03383] interacts with 2 human partners:{P35813;O43541}  
10230 Pathogen[ P03410] interacts with 2 human partners:{P35813;O43541}  
10231 Pathogen[ P14075] interacts with 2 human partners:{P35813;O43541}  
10232 Pathogen[ P0C206] interacts with 2 human partners:{O43541;P35813}  
10233 Pathogen[ P03363] interacts with 1 human partners:{O43541}  
10234 [Cluster 931]GO:0001835+P biological\_process [name] blastocyst hatching [def] "The  
hatching of the cellular blastocyst from the zona pellucida." [GOC  
10235 Pathogen[ Q2Q067] interacts with 3 human partners:{Q99708;Q12824;Q9HBD4}  
10236 Pathogen[ P0C214] interacts with 3 human partners:{Q12824;Q9HBD4;Q99708}  
10237 Pathogen[ P03346] interacts with 3 human partners:{Q9HBD4;Q99708;Q12824}  
10238 Pathogen[ Q85601] interacts with 3 human partners:{Q99708;Q9HBD4;Q12824}  
10239 Pathogen[ P14079] interacts with 2 human partners:{Q99708;Q12824}  
10240 Pathogen[ P03383] interacts with 3 human partners:{Q9HBD4;Q12824;Q99708}

10241 Pathogen[ P03410] interacts with 3 human partners:{Q99708;Q12824;Q9HBD4}  
10242 Pathogen[ P14075] interacts with 3 human partners:{Q9HBD4;Q12824;Q99708}  
10243 Pathogen[ P0C206] interacts with 3 human partners:{Q99708;Q12824;Q9HBD4}  
10244 Pathogen[ P03363] interacts with 3 human partners:{Q99708;Q9HBD4;Q12824}  
10245 [Cluster 932]GO:0045765+P biological\_process [name] regulation of angiogenesis  
[def] "Any process that modulates the frequency, rate or extent of angiogenesis." [GOC  
10246 Pathogen[ Q2Q067] interacts with 6 human  
partners:{P23381;Q9BUP3;P41134;P04264;P13489;Q9GZT9}  
10247 Pathogen[ P0C214] interacts with 7 human  
partners:{P13489;P04264;P23381;P05121;Q9BUP3;P41134;Q9GZT9}  
10248 Pathogen[ P03346] interacts with 6 human  
partners:{P23381;P13489;Q9BUP3;P41134;Q9GZT9;P04264}  
10249 Pathogen[ Q85601] interacts with 7 human  
partners:{P41134;P23381;Q9GZT9;P04264;P05121;P13489;Q9BUP3}  
10250 Pathogen[ P14079] interacts with 7 human  
partners:{Q9GZT9;P23381;P13489;Q9BUP3;Q13164;P41134;P04264}  
10251 Pathogen[ P03383] interacts with 4 human partners:{P23381;P04264;P13489;Q9BUP3}  
10252 Pathogen[ P03410] interacts with 7 human  
partners:{P13489;P05121;P04264;P23381;P41134;Q9GZT9;Q9BUP3}  
10253 Pathogen[ P14075] interacts with 5 human  
partners:{Q9BUP3;Q9GZT9;P23381;P13489;P04264}  
10254 Pathogen[ P0C206] interacts with 7 human  
partners:{Q9BUP3;Q9GZT9;P13489;P04264;P41134;P05121;P23381}  
10255 Pathogen[ P03363] interacts with 5 human  
partners:{Q9BUP3;P13489;P23381;P41134;P04264}  
10256 [Cluster 933]GO:0035108+P biological\_process [name] limb morphogenesis [def] "The  
process in which the anatomical structures of a limb are generated and organized. A limb  
is an appendage of an animal used for locomotion or grasping. Examples include legs,  
arms or some types of fin." [ISBN  
10257 Pathogen[ Q2Q067] interacts with 1 human partners:{O95613}  
10258 Pathogen[ P0C214] interacts with 1 human partners:{O95613}  
10259 Pathogen[ P03346] interacts with 4 human partners:{P35453;Q03828;Q68CZ1;O95613}  
10260 Pathogen[ Q85601] interacts with 1 human partners:{O95613}  
10261 Pathogen[ P14079] interacts with 3 human partners:{Q68CZ1;P35475;O95613}  
10262 Pathogen[ P03383] interacts with 1 human partners:{O95613}  
10263 Pathogen[ P03410] interacts with 2 human partners:{Q68CZ1;O95613}  
10264 Pathogen[ P14075] interacts with 1 human partners:{O95613}  
10265 Pathogen[ P0C206] interacts with 1 human partners:{O95613}  
10266 Pathogen[ P03363] interacts with 3 human partners:{P35453;O95613;Q03828}  
10267 [Cluster 934]GO:0042797+P biological\_process [name] tRNA transcription from RNA  
polymerase III promoter [def] "The synthesis of transfer RNA (tRNA) from a DNA template  
by RNA Polymerase III (Pol III), originating at a Pol III promoter." [GOC  
10268 Pathogen[ Q2Q067] interacts with 4 human partners:{Q9Y5Q8;Q9UKN8;Q12789;Q969F1}  
10269 Pathogen[ P0C214] interacts with 4 human partners:{Q9Y5Q8;Q9UKN8;Q12789;Q969F1}  
10270 Pathogen[ P03346] interacts with 6 human  
partners:{Q9Y5Q8;Q9UKN8;Q8WUA4;Q9Y5Q9;Q969F1;Q12789}  
10271 Pathogen[ Q85601] interacts with 4 human partners:{Q9UKN8;Q9Y5Q8;Q12789;Q969F1}  
10272 Pathogen[ P14079] interacts with 6 human  
partners:{Q9UKN8;Q9Y5Q9;Q969F1;Q9Y5Q8;Q12789;Q8WUA4}  
10273 Pathogen[ P03383] interacts with 4 human partners:{Q9UKN8;Q969F1;Q9Y5Q8;Q12789}  
10274 Pathogen[ P03410] interacts with 6 human  
partners:{Q9Y5Q9;Q969F1;Q9Y5Q8;Q12789;Q8WUA4;Q9UKN8}  
10275 Pathogen[ P14075] interacts with 4 human partners:{Q969F1;Q12789;Q9Y5Q8;Q9UKN8}  
10276 Pathogen[ P0C206] interacts with 6 human  
partners:{Q969F1;Q8WUA4;Q9Y5Q9;Q9Y5Q8;Q9UKN8;Q12789}  
10277 Pathogen[ P03363] interacts with 6 human  
partners:{Q969F1;Q8WUA4;Q9Y5Q9;Q12789;Q9UKN8;Q9Y5Q8}  
10278 [Cluster 935]GO:0007095+P biological\_process [name] mitotic cell cycle G2/M  
transition DNA damage checkpoint [def] "A mitotic cell cycle checkpoint that blocks  
cell cycle progression from G2 to M phase in response to DNA damage." [GOC  
10279 Pathogen[ Q2Q067] interacts with 3 human partners:{O60934;P51959;P20248}  
10280 Pathogen[ P0C214] interacts with 2 human partners:{P20248;P51959}  
10281 Pathogen[ P03346] interacts with 5 human  
partners:{P20248;P98177;O60934;P51959;Q96M02}  
10282 Pathogen[ Q85601] interacts with 4 human partners:{Q96M02;P51959;P20248;O60934}  
10283 Pathogen[ P14079] interacts with 4 human partners:{P51959;O60934;Q96M02;P20248}  
10284 Pathogen[ P03383] interacts with 2 human partners:{P51959;P20248}  
10285 Pathogen[ P03410] interacts with 4 human partners:{Q96M02;P51959;P20248;O60934}  
10286 Pathogen[ P14075] interacts with 2 human partners:{P51959;P20248}  
10287 Pathogen[ P0C206] interacts with 4 human partners:{Q96M02;O60934;P20248;P51959}  
10288 Pathogen[ P03363] interacts with 3 human partners:{P20248;Q96M02;P51959}  
10289 [Cluster 936]GO:0050776+P biological\_process [name] regulation of immune response  
[def] "Any process that modulates the frequency, rate or extent of the immune response,  
the immunological reaction of an organism to an immunogenic stimulus." [GOC  
10290 Pathogen[ Q2Q067] interacts with 3 human partners:{P41182;Q92985;P84022}  
10291 Pathogen[ P0C214] interacts with 3 human partners:{P84022;Q92985;P41182}

10292 Pathogen[ P03346] interacts with 4 human partners:{Q9H6Q3;P84022;P41182;Q92985}  
10293 Pathogen[ Q85601] interacts with 4 human partners:{Q9H6Q3;Q92985;P84022;P41182}  
10294 Pathogen[ P14079] interacts with 7 human  
partners:{Q9BXL7;P13164;Q8IVK1;Q92985;P41182;Q9H6Q3;Q9UBK5}  
10295 Pathogen[ P03383] interacts with 2 human partners:{Q92985;P84022}  
10296 Pathogen[ P03410] interacts with 8 human  
partners:{P84022;Q9UBK5;P20963;Q9BXL7;P41182;Q8IVK1;Q92985;Q9H6Q3}  
10297 Pathogen[ P14075] interacts with 3 human partners:{Q8IVK1;Q92985;P84022}  
10298 Pathogen[ P0C206] interacts with 5 human  
partners:{P84022;Q9H6Q3;P41182;Q92985;Q8IVK1}  
10299 Pathogen[ P03363] interacts with 3 human partners:{Q92985;Q9H6Q3;P84022}  
10300 [Cluster 937]GO:0002042+P biological\_process [name] cell migration involved in  
sprouting angiogenesis [def] "The orderly movement of endothelial cells into the  
extracellular matrix in order to form new blood vessels involved in sprouting  
angiogenesis." [PMID  
10301 Pathogen[ Q2Q067] interacts with 2 human partners:{P11831;P22736}  
10302 Pathogen[ P0C214] interacts with 1 human partners:{P11831}  
10303 Pathogen[ P03346] interacts with 2 human partners:{P11831;P22736}  
10304 Pathogen[ Q85601] interacts with 2 human partners:{P11831;P22736}  
10305 Pathogen[ P14079] interacts with 1 human partners:{P22736}  
10306 Pathogen[ P03383] interacts with 1 human partners:{P11831}  
10307 Pathogen[ P03410] interacts with 2 human partners:{P11831;P22736}  
10308 Pathogen[ P14075] interacts with 1 human partners:{P11831}  
10309 Pathogen[ P0C206] interacts with 2 human partners:{P22736;P11831}  
10310 Pathogen[ P03363] interacts with 1 human partners:{P11831}  
10311 [Cluster 938]GO:0008033+P biological\_process [name] tRNA processing [def] "The  
process in which a pre-tRNA molecule is converted to a mature tRNA, ready for addition  
of an aminoacyl group." [GOC  
10312 Pathogen[ Q2Q067] interacts with 42 human  
partners:{O95363;P78346;P62312;O60294;P49591;P22087;O75818;Q8NCE0;Q99575;Q9Y606;Q9BU  
L9;Q7Z7A3;Q15046;Q9UBP6;Q9H777;Q9Y2Z2;A6NHQ2;Q7L0Y3;Q9H4B0;Q9BSV6;O75817;Q08J23;P570  
81;Q2VPK5;P78345;Q96FX7;Q969H6;Q8WW01;Q32P41;Q9BZE2;Q9UJA5;Q9BVS5;Q9BQ52;Q9H974;Q7Z6  
J9;O95707;Q9BXR0;Q9BTM9;Q9H633;O95900;Q9NUP7;O95059}  
10313 Pathogen[ P0C214] interacts with 47 human  
partners:{Q9BTM9;P62312;Q3MIT2;Q96FX7;O75818;Q9H633;Q9BUL9;O95363;Q969H6;Q7L0Y3;A6NH  
Q2;P78345;Q9H777;Q9Y2Z2;P22087;O95396;Q9BXR0;P49591;Q9BSV6;O95059;O95707;Q9H3H1;Q995  
75;O75817;Q2VPK5;Q9BZE2;Q9BQ52;Q08J23;P57081;Q8IYL2;O95900;O60294;Q9H4B0;P49588;Q9UB  
P6;Q7Z7A3;Q32P41;Q9NUP7;Q9UJA5;Q9H974;Q15046;Q9Y606;P78346;Q8WW01;Q8NCE0;Q9BVS5;Q7Z6  
J9}  
10314 Pathogen[ P03346] interacts with 44 human  
partners:{Q08J23;Q9Y606;Q96FX7;Q9BTM9;P78346;Q9H633;Q32P41;O95900;A6NHQ2;Q7Z6J9;Q8IY  
L2;Q9BZE2;Q969H6;O95707;Q9Y2Z2;Q9H4B0;Q9BUL9;O60294;O75817;Q9BVS5;Q7Z7A3;O75818;O147  
17;Q8N0Z8;Q9H777;Q9UBP6;Q99575;Q9NUP7;Q8WWH5;P78345;Q9BXR0;Q9H974;Q96GJ1;Q9UJA5;P220  
87;Q7L0Y3;Q8WW01;Q2VPK5;O95059;Q9BQ52;P62312;Q9BSV6;P57081;Q8NCE0}  
10315 Pathogen[ Q85601] interacts with 40 human  
partners:{Q9BUL9;Q32P41;Q9BQ52;Q9BXR0;P78346;Q99575;Q9BZE2;Q9BVS5;O95059;Q9Y606;A6NH  
Q2;Q9UBP6;Q969H6;Q9Y2Z2;Q9H974;Q15046;Q96FX7;Q2VPK5;Q9BSV6;Q9H777;O95707;O60294;O758  
17;O75818;Q9BTM9;Q08J23;Q8IYL2;P57081;Q7Z7A3;P62312;Q9NUP7;Q7Z6J9;O95363;P78345;Q9UJ  
A5;P22087;Q7L0Y3;Q8WW01;Q9H633;Q8NCE0}  
10316 Pathogen[ P14079] interacts with 61 human  
partners:{Q5VV42;Q7Z2T5;P78346;Q9BRP7;O60294;O75817;Q9BZE2;Q6IPR3;Q86TN4;Q3MIT2;Q9H7  
77;Q9NUP7;Q9BSV6;Q9Y2Z2;O95363;P49591;Q7Z4G4;Q8WW01;P62312;A6NHQ2;Q32P41;Q8NCE0;O957  
07;P57081;P22087;O95059;Q9NPF4;Q96P20;O75648;Q15046;Q8N0Z8;Q9BXR0;Q2VPK5;Q7Z6J9;Q995  
75;Q08J23;Q9BUL9;Q9UJA5;Q9H0K6;Q9H633;Q9BQ52;Q9NWX6;Q9Y606;Q9H4B0;O75818;Q96GJ1;Q9BV  
S5;Q96Q11;P78345;O15091;Q9H3H1;P49588;Q8IYL2;Q7Z7A3;O95900;Q96FX7;Q9H974;Q7L0Y3;Q9BT  
M9;Q96EY9;Q8WWH5}  
10317 Pathogen[ P03383] interacts with 42 human  
partners:{P78345;Q9H974;Q9H4B0;Q9H777;P62312;Q969H6;Q9H633;Q7Z7A3;Q99575;Q7Z6J9;Q8IY  
L2;Q9UBP6;Q8NCE0;O95059;Q9Y2Z2;Q9BVS5;Q7L0Y3;Q9BZE2;Q32P41;Q9BQ52;O95707;O75817;Q9BS  
V6;Q9Y606;Q9BTM9;O60294;Q15046;P57081;Q08J23;O95363;O75818;Q9BXR0;Q96FX7;Q9NUP7;Q9UJ  
A5;O95900;Q9BUL9;Q2VPK5;P22087;P49591;P78346;Q8WW01}  
10318 Pathogen[ P03410] interacts with 60 human  
partners:{Q9BRP7;Q32P41;O75648;Q96Q11;P22087;O75127;Q96EY9;Q7Z6J9;P78346;Q9H974;P783  
45;Q9Y2Z2;Q99575;Q9UBP6;P49588;Q9NPF4;A6NHQ2;Q9BQ52;Q7Z4G4;Q9H4B0;Q7Z7A3;Q9H3H1;Q9BS  
V6;Q8IYL2;P49591;Q6IPR3;Q9UJA5;O95707;Q9BUL9;Q8N0Z8;O75818;Q2VPK5;Q9H777;Q9BZE2;Q150  
46;Q96GJ1;Q8WWH5;O60294;Q9Y606;Q08J23;O15091;Q96FX7;P57081;O95900;Q9BTM9;Q86TN4;Q9H0  
K6;P62312;Q969H6;Q8NCE0;Q9BVS5;Q9H633;Q3MIT2;Q9NUP7;Q9NWX6;O75817;O95363;O95059;Q8WW  
01;Q7L0Y3}  
10319 Pathogen[ P14075] interacts with 46 human  
partners:{Q9H974;Q8N0Z8;Q9BTM9;Q9BSV6;Q7Z6J9;Q9H3H1;O75648;Q7L0Y3;Q9Y606;Q9BXR0;Q9Y2  
Z2;O95363;Q8WWH5;O60294;O95900;P62312;Q32P41;Q9H777;O75817;Q8WW01;Q8NCE0;P57081;Q2VP  
K5;Q9BQ52;Q7Z7A3;P22087;P78345;P78346;Q9UBP6;Q9BVS5;Q9BZE2;Q9NUP7;Q8IYL2;O95059;Q9H6  
33;Q96FX7;Q9UJA5;Q9H4B0;Q08J23;Q15046;Q9BUL9;O95707;O75818;P49591;Q99575;Q969H6}  
10320 Pathogen[ P0C206] interacts with 54 human  
partners:{O95363;Q9BUL9;Q08J23;A6NHQ2;Q8WWH5;Q9BSV6;Q9UBP6;Q9H4B0;Q32P41;Q96GJ1;O602  
94;O75818;Q9BRP7;O95059;Q9Y2Z2;P49591;Q969H6;O15091;Q9BZE2;Q96FX7;Q2VPK5;Q7L0Y3;Q9BV

- S5;Q9H974;O95707;P57081;Q7Z4G4;O75817;Q9NUP7;P78345;O95900;Q9H3H1;Q9Y606;Q9NPF4;Q9UJ  
A5;Q7Z6J9;Q8WW01;Q9H777;P22087;Q99575;Q9BXR0;Q96EY9;P62312;Q8NCE0;Q8N0Z8;Q8IYL2;P783  
46;Q9BQ52;Q9H633;Q6IPR3;O95396;Q7Z7A3;Q15046;Q9BTM9}
- 10321 Pathogen[ P03363] interacts with 41 human  
partners: {Q32P41;Q9BZE2;Q08J23;Q9BXR0;Q9BSV6;O95059;P62312;Q99575;O75817;Q9Y606;O758  
18;O95900;Q9BTM9;O14717;Q8IYL2;Q7Z7A3;O95707;Q9H633;Q9UBP6;Q2VPK5;Q9H974;Q96FX7;P220  
87;P57081;Q7L0Y3;Q8WW01;O95363;Q9UJA5;Q8N0Z8;P49591;O60294;Q969H6;P78345;Q9BVS5;Q8WW  
H5;Q7Z4G4;P78346;Q7Z6J9;Q8NCE0;Q9BUL9;A6NHQ2}
- 10322 [Cluster 939]GO:0042384+P biological\_process [name] cilium assembly [def] "The  
assembly of a cilium, a specialized eukaryotic organelle that consists of a filiform  
extrusion of the cell surface. Each cilium is bounded by an extrusion of the cytoplasmic  
membrane, and contains a regular longitudinal array of microtubules, anchored basally in  
a centriole." [GOC
- 10323 Pathogen[ Q2Q067] interacts with 19 human  
partners: {P48380;Q3B820;O95948;Q9UPV0;Q86YF9;D6RGH6;Q96QF0;Q9Y3M2;Q9BYV8;Q9NXB0;Q162  
54;O15078;Q9BUN5;Q96NB1;Q15051;Q95613;Q9BPU9;Q15154;A8MTZ0}
- 10324 Pathogen[ P0C214] interacts with 18 human  
partners: {O15078;D6RGH6;Q16254;Q15154;Q15051;Q9BYV8;Q9UPV0;Q9NXB0;Q9BPU9;Q9Y3M2;A8MT  
Z0;Q3B820;P48380;O95613;O95948;Q86YF9;Q96QF0;Q96NB1}
- 10325 Pathogen[ P03346] interacts with 28 human  
partners: {Q9Y3M2;Q9BPU9;Q15154;Q68CZ1;P48380;A8MTZ0;D6RGH6;Q16254;Q9UBC0;Q15051;Q9BT  
04;Q86YF9;Q8TAM2;Q9NXB0;O95948;Q15019;Q8N0X2;Q8N157;Q3B820;Q9BYV8;Q96PY6;O95613;O150  
78;Q92834;Q96NB1;Q9UPV0;Q9BUN5;Q96QF0}
- 10326 Pathogen[ Q85601] interacts with 21 human  
partners: {Q15154;Q9Y3M2;A8MTZ0;Q96PY6;O15078;D6RGH6;Q92834;Q9UPV0;Q9NXB0;O95948;Q150  
51;Q9BYV8;Q16254;Q3B820;Q9BPU9;O95613;P48380;Q9BT04;Q86YF9;Q96NB1;Q96QF0}
- 10327 Pathogen[ P14079] interacts with 41 human  
partners: {Q9PON5;Q9NPI0;D6RGH6;Q96GX1;Q16254;Q8N0X2;O95948;Q8N157;Q68CZ1;Q96Q45;Q928  
34;P48380;Q8NPF9;Q8N3I7;Q8IYY4;Q9Y4R7;Q9GZS0;A0AVF1;Q9BUN5;Q9UPM9;Q8TAM2;Q96QF0;Q4AC  
94;Q9BPU9;Q8TCU4;Q9P2L0;Q8TC44;Q9Y3M2;Q3B820;O95613;Q15051;Q86YF9;O15078;Q9P2K1;Q151  
54;A8MTZ0;Q9NXB0;Q9BYV8;Q9UPV0;Q96NB1;Q9BT04}
- 10328 Pathogen[ P03383] interacts with 19 human  
partners: {Q15051;Q96QF0;Q9BUN5;P48380;A8MTZ0;D6RGH6;Q96NB1;Q9NXB0;O15078;Q16254;Q151  
54;Q9BYV8;Q9Y3M2;Q9UPV0;Q96PY6;Q86YF9;Q3B820;O95613;Q9BT04}
- 10329 Pathogen[ P03410] interacts with 42 human  
partners: {Q3B820;Q9Y4R7;Q96NB1;Q8NPF9;Q15154;Q8N0X2;Q96RY7;Q9Y3M2;Q96Q45;Q4AC94;Q8TA  
M2;Q16254;D6RGH6;A0AVF1;Q8TCU4;O95948;Q8TCX1;Q9BYV8;A8MTZ0;Q96GX1;Q9BT04;Q86YF9;Q9NP  
I0;Q9BPU9;Q8N157;Q9PON5;P48380;O15078;Q8N3I7;Q9P2K1;Q9UPM9;Q92834;Q9BUN5;Q15051;Q96Q  
F0;Q8TC44;Q9UPV0;Q9NXB0;Q9P2L0;Q68CZ1;O95613;Q9GZS0}
- 10330 Pathogen[ P14075] interacts with 20 human  
partners: {Q9BYV8;Q15051;P48380;Q9BT04;Q9BUN5;Q9UPV0;Q9NXB0;O15078;Q16254;Q96NB1;Q9BP  
U9;Q15154;Q96QF0;Q96PY6;O95613;Q9Y3M2;A8MTZ0;D6RGH6;Q86YF9;Q3B820}
- 10331 Pathogen[ P0C206] interacts with 30 human  
partners: {Q9BPU9;Q15019;Q9UPM9;Q8TAM2;Q86YF9;Q9BT04;Q8TCU4;Q9P2K1;Q96PY6;Q9UBC0;Q9UP  
V0;D6RGH6;P48380;Q8N3I7;Q16254;Q96QF0;O95613;Q9BUN5;O15078;Q8N157;Q9BYV8;Q3B820;Q8NF  
J9;Q15154;Q9NXB0;Q96NB1;Q15051;A8MTZ0;Q92834;O95948}
- 10332 Pathogen[ P03363] interacts with 29 human  
partners: {Q9UBC0;Q15051;Q8N0X2;O95948;Q8TAM2;Q9BYV8;Q3B820;O15078;Q9GZS0;Q9P2K1;O956  
13;Q16254;Q9Y3M2;A8MTZ0;Q8N157;Q9BPU9;Q9BT04;Q96NB1;D6RGH6;Q9UPV0;Q92834;Q86YF9;P483  
80;Q8NPF9;Q9NXB0;Q15154;Q8TC44;Q9BUN5;Q96QF0}
- 10333 [Cluster 940]GO:0070830+P biological\_process [name] tight junction assembly [def]  
"The aggregation, arrangement and bonding together of a set of components to form a  
tight junction, an occluding cell-cell junction that is composed of a branching network  
of sealing strands that completely encircles the apical end of each cell in an  
epithelial sheet." [GOC
- 10334 Pathogen[ Q2Q067] interacts with 9 human  
partners: {Q9BTW9;Q8NI35;Q9NPB6;Q9BYG5;Q86UE4;P11831;Q12959;Q68DX3;Q9BYG4}
- 10335 Pathogen[ P0C214] interacts with 10 human  
partners: {Q68DX3;Q8NI35;Q9BTW9;P11831;Q86UE4;Q9NPB6;Q12959;Q9BYG5;Q9BYG4;P36404}
- 10336 Pathogen[ P03346] interacts with 14 human  
partners: {Q68DX3;Q86UE4;P11831;O43815;Q9NPB6;Q8TEW0;Q8NI35;Q8N3R9;Q9BYG5;Q5T2T1;P364  
04;Q9BYG4;Q9H8V3;Q12959}
- 10337 Pathogen[ Q85601] interacts with 10 human  
partners: {P11831;Q9BYG5;O43815;Q9BTW9;Q8NI35;Q68DX3;Q9NPB6;Q86UE4;Q12959;Q9BYG4}
- 10338 Pathogen[ P14079] interacts with 16 human  
partners: {Q9BTW9;Q68DX3;Q8N7P3;Q9BYG5;P56750;Q5T2T1;O43815;O60895;Q8TEW0;Q8NI35;Q9BY  
G4;Q96B33;Q9H8V3;Q86UE4;Q8N3R9;Q9NPB6}
- 10339 Pathogen[ P03383] interacts with 6 human  
partners: {P11831;Q86UE4;Q9BYG5;Q9NPB6;Q68DX3;Q9BYG4}
- 10340 Pathogen[ P03410] interacts with 18 human  
partners: {P11831;Q96B33;Q8N7P3;O60895;Q12959;Q8NI35;Q5T2T1;Q9BTW9;Q86UE4;Q8TEW0;O438  
15;Q9NPB6;Q9H8V3;P56750;Q68DX3;Q9BYG4;Q8N3R9;Q9BYG5}
- 10341 Pathogen[ P14075] interacts with 6 human  
partners: {Q68DX3;P11831;Q86UE4;Q9BYG4;Q9NPB6}
- 10342 Pathogen[ P0C206] interacts with 14 human  
partners: {O43815;Q9BTW9;Q9BYG5;Q8N3R9;Q8TEW0;Q5T2T1;Q8NI35;Q9NPB6;Q9H8V3;P11831;Q86U

E4;Q68DX3;Q12959;Q9BYG4}

10343 Pathogen[ P03363] interacts with 12 human partners: {Q12959;Q9NPB6;Q5T2T1;Q86UE4;Q9BYG4;P11831;O43815;Q8N3R9;Q9BTW9;Q9BYG5;Q8NI35;Q68DX3}

10344 [Cluster 941]GO:0032609+P biological\_process [name] interferon-gamma production [def] "The appearance of interferon-gamma due to biosynthesis or secretion following a cellular stimulus, resulting in an increase in its intracellular or extracellular levels. Interferon-gamma is also known as type II interferon." [GOC

10345 Pathogen[ Q2Q067] interacts with 1 human partners: {Q13761}

10346 Pathogen[ P0C214] interacts with 1 human partners: {Q13761}

10347 Pathogen[ P03346] interacts with 1 human partners: {Q13761}

10348 Pathogen[ Q85601] interacts with 1 human partners: {Q13761}

10349 Pathogen[ P14079] interacts with 1 human partners: {Q13761}

10350 Pathogen[ P03383] interacts with 1 human partners: {Q13761}

10351 Pathogen[ P03410] interacts with 1 human partners: {Q13761}

10352 Pathogen[ P14075] interacts with 1 human partners: {Q13761}

10353 Pathogen[ P0C206] interacts with 1 human partners: {Q13761}

10354 Pathogen[ P03363] interacts with 1 human partners: {Q13761}

10355 [Cluster 942]GO:0048754+P biological\_process [name] branching morphogenesis of a tube [def] "The process in which the anatomical structures of branches in a tube are generated and organized. A tube is a long hollow cylinder." [GOC

10356 Pathogen[ Q2Q067] interacts with 5 human partners: {P04198;Q9UNSL;P35680;Q9NXB0;P62136}

10357 Pathogen[ P0C214] interacts with 4 human partners: {Q9NXB0;Q9UNSL;P62136;P04198}

10358 Pathogen[ P03346] interacts with 5 human partners: {P62136;Q9UNSL;Q9NXB0;P35680;P04198}

10359 Pathogen[ Q85601] interacts with 5 human partners: {Q9NXB0;P62136;P35680;P04198;Q9UNSL}

10360 Pathogen[ P14079] interacts with 7 human partners: {O43597;P35680;P62136;P04198;P49023;Q9UNSL;Q9NXB0}

10361 Pathogen[ P03383] interacts with 4 human partners: {Q9UNSL;P62136;Q9NXB0;P04198}

10362 Pathogen[ P03410] interacts with 6 human partners: {O43597;P62136;Q9UNSL;P35680;Q9NXB0;P04198}

10363 Pathogen[ P14075] interacts with 4 human partners: {P04198;P62136;Q9NXB0;Q9UNSL}

10364 Pathogen[ P0C206] interacts with 6 human partners: {Q9UNSL;P35680;P04198;O43597;Q9NXB0;P62136}

10365 Pathogen[ P03363] interacts with 4 human partners: {P62136;P04198;Q9UNSL;Q9NXB0}

10366 [Cluster 943]GO:0010424+P biological\_process [name] DNA methylation on cytosine within a CG sequence [def] "The covalent transfer of a methyl group to C-5 or N-4 of a cytosine located within a CG sequence in a DNA molecule." [GOC

10367 Pathogen[ Q2Q067] interacts with 3 human partners: {Q9Y6K1;Q9UBC3;Q9HBD4}

10368 Pathogen[ P0C214] interacts with 2 human partners: {Q9HBD4;Q9Y6K1}

10369 Pathogen[ P03346] interacts with 3 human partners: {Q9Y6K1;Q9HBD4;Q9UBC3}

10370 Pathogen[ Q85601] interacts with 3 human partners: {Q9Y6K1;Q9HBD4;Q9UBC3}

10371 Pathogen[ P14079] interacts with 2 human partners: {Q9Y6K1;Q9UBC3}

10372 Pathogen[ P03383] interacts with 2 human partners: {Q9HBD4;Q9Y6K1}

10373 Pathogen[ P03410] interacts with 3 human partners: {Q9UBC3;Q9Y6K1;Q9HBD4}

10374 Pathogen[ P14075] interacts with 2 human partners: {Q9Y6K1;Q9HBD4}

10375 Pathogen[ P0C206] interacts with 3 human partners: {Q9Y6K1;Q9HBD4;Q9UBC3}

10376 Pathogen[ P03363] interacts with 3 human partners: {Q9Y6K1;Q9HBD4;Q9UBC3}

10377 [Cluster 944]GO:0055119+P biological\_process [name] relaxation of cardiac muscle [def] "The process in which the extent of cardiac muscle contraction is reduced." [GOC

10378 Pathogen[ Q2Q067] interacts with 1 human partners: {P41220}

10379 Pathogen[ P0C214] interacts with 1 human partners: {P41220}

10380 Pathogen[ P03346] interacts with 1 human partners: {P41220}

10381 Pathogen[ Q85601] interacts with 1 human partners: {P41220}

10382 Pathogen[ P14079] interacts with 1 human partners: {P41220}

10383 Pathogen[ P03383] interacts with 1 human partners: {P41220}

10384 Pathogen[ P03410] interacts with 1 human partners: {P41220}

10385 Pathogen[ P14075] interacts with 1 human partners: {P41220}

10386 Pathogen[ P0C206] interacts with 1 human partners: {P41220}

10387 Pathogen[ P03363] interacts with 1 human partners: {P41220}

10388 [Cluster 945]GO:0006520+P biological\_process [name] cellular amino acid metabolic process [def] "The chemical reactions and pathways involving amino acids, carboxylic acids containing one or more amino groups, as carried out by individual cells." [CHEBI

10389 Pathogen[ Q2Q067] interacts with 3 human partners: {Q9UI32;P18848;Q03393}

10390 Pathogen[ P0C214] interacts with 6 human partners: {P09417;P00480;P42898;Q9UI32;P18848;Q03393}

10391 Pathogen[ P03346] interacts with 4 human partners: {Q03393;P20132;Q9UI32;P18848}

10392 Pathogen[ Q85601] interacts with 3 human partners: {P00480;P18848;Q9UI32}

10393 Pathogen[ P14079] interacts with 7 human partners: {P20132;Q93099;Q9UI32;P00480;Q03393;Q03154;P42898}

10394 Pathogen[ P03383] interacts with 1 human partners: {P18848}

10395 Pathogen[ P03410] interacts with 8 human partners: {P18848;P20132;Q93099;P00480;O75600;P42898;Q9UI32;Q03393}

10396 Pathogen[ P14075] interacts with 1 human partners: {P18848}

10397 Pathogen[ P0C206] interacts with 5 human partners:{P20132;Q9UI32;Q03393;P18848;P00480}

10398 Pathogen[ P03363] interacts with 2 human partners:{P18848;Q9UI32}

10399 [Cluster 946]GO:0046329+P biological\_process [name] negative regulation of JNK cascade [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of signal transduction mediated by the JNK cascade." [GOC]

10400 Pathogen[ Q2Q067] interacts with 11 human partners:{Q96J02;P31749;Q15326;Q8TD23;O15379;Q9NYF0;O00255;Q9UQF2;O75376;Q13227;Q03112}

10401 Pathogen[ P0C214] interacts with 11 human partners:{Q96J02;Q8TD23;Q03112;O75376;O15379;Q13227;Q9UQF2;Q15326;Q9NYF0;O00255;P31749}

10402 Pathogen[ P03346] interacts with 11 human partners:{Q96J02;O15379;Q8TD23;Q13227;P31749;O00255;Q03112;O75376;Q9NYF0;Q15326;Q9UQF2}

10403 Pathogen[ Q85601] interacts with 11 human partners:{Q96J02;P31749;Q8TD23;Q03112;Q9NYF0;Q9UQF2;O00255;O75376;Q15326;O15379;Q13227}

10404 Pathogen[ P14079] interacts with 11 human partners:{O15379;Q8TD23;O75072;Q9UQF2;Q96BJ3;Q13227;Q96J02;O75376;O00255;Q15326;Q9NYF0}

10405 Pathogen[ P03383] interacts with 11 human partners:{O75376;P31749;Q8TD23;Q9UQF2;Q15326;Q03112;O15379;O00255;Q9NYF0;Q13227;Q96BJ3}

10406 Pathogen[ P03410] interacts with 11 human partners:{Q13227;Q03112;P31749;O75376;Q96BJ3;O15379;Q15326;Q9NYF0;Q9UQF2;Q8TD23;O00255}

10407 Pathogen[ P14075] interacts with 11 human partners:{Q8TD23;O75376;Q96BJ3;O00255;P31749;Q15326;Q13227;Q03112;O15379;Q9NYF0;Q9UQF2}

10408 Pathogen[ P0C206] interacts with 12 human partners:{P31749;O00255;Q96J02;Q9UQF2;Q15326;Q03112;O15379;Q96BJ3;Q8TD23;O75376;Q9NYF0;Q13227}

10409 Pathogen[ P03363] interacts with 9 human partners:{Q13227;Q03112;Q9UQF2;O15379;O75376;Q9NYF0;Q15326;P31749;Q8TD23}

10410 [Cluster 947]GO:0007501+P biological\_process [name] mesodermal cell fate specification [def] "The cell fate determination process in which a cell becomes capable of differentiating autonomously into a mesoderm cell in an environment that is neutral with respect to the developmental pathway\_ upon specification, the cell fate can be reversed." [GOC]

10411 Pathogen[ Q2Q067] interacts with 1 human partners:{O00167}

10412 Pathogen[ P0C214] interacts with 1 human partners:{O00167}

10413 Pathogen[ P03346] interacts with 3 human partners:{Q9NPC8;O00167;P31270}

10414 Pathogen[ Q85601] interacts with 1 human partners:{O00167}

10415 Pathogen[ P14079] interacts with 1 human partners:{O00167}

10416 Pathogen[ P03383] interacts with 1 human partners:{O00167}

10417 Pathogen[ P03410] interacts with 1 human partners:{O00167}

10418 Pathogen[ P14075] interacts with 1 human partners:{O00167}

10419 Pathogen[ P0C206] interacts with 1 human partners:{O00167}

10420 Pathogen[ P03363] interacts with 2 human partners:{O00167;Q9NPC8}

10421 [Cluster 948]GO:0003254+P biological\_process [name] regulation of membrane depolarization [def] "Any process that modulates the rate, frequency or extent of membrane depolarization. Membrane depolarization is the process in which membrane potential changes in the depolarizing direction from the resting potential, usually from negative to positive." [GOC]

10422 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13642}

10423 Pathogen[ P0C214] interacts with 1 human partners:{Q13642}

10424 Pathogen[ P03346] interacts with 1 human partners:{Q13642}

10425 Pathogen[ Q85601] interacts with 1 human partners:{Q13642}

10426 Pathogen[ P14079] interacts with 1 human partners:{Q13642}

10427 Pathogen[ P03383] interacts with 1 human partners:{Q13642}

10428 Pathogen[ P03410] interacts with 1 human partners:{Q13642}

10429 Pathogen[ P14075] interacts with 1 human partners:{Q13642}

10430 Pathogen[ P0C206] interacts with 1 human partners:{Q13642}

10431 Pathogen[ P03363] interacts with 1 human partners:{Q13642}

10432 [Cluster 949]GO:0032321+P biological\_process [name] positive regulation of Rho GTPase activity [def] "Any process that activates or increases the activity of a GTPase of the Rho family." [GOC]

10433 Pathogen[ Q2Q067] interacts with 4 human partners:{Q99569;Q9UJM3;Q13526;Q8TE85}

10434 Pathogen[ P0C214] interacts with 6 human partners:{Q13526;Q9UJM3;Q8TE85;O14613;P05412;P98171}

10435 Pathogen[ P03346] interacts with 8 human partners:{P05412;P98171;Q99569;O14613;Q13526;Q8TE85;Q9H8V3;Q9UJM3}

10436 Pathogen[ Q85601] interacts with 6 human partners:{Q99569;Q8TE85;Q13526;P05412;O14613;Q9UJM3}

10437 Pathogen[ P14079] interacts with 8 human partners:{Q99569;Q8TE85;Q13526;P05412;O14613;Q9UJM3}

10438 Pathogen[ P03383] interacts with 4 human partners: {Q9UJM3;Q8TE85;Q13526;P05412}

10439 Pathogen[ P03410] interacts with 8 human partners: {P98171;Q13526;Q8TE85;O14613;P05412;Q9H8V3;Q9UJM3;Q99569}

10440 Pathogen[ P14075] interacts with 5 human partners: {P05412;Q8TE85;Q9UJM3;Q13526;O14613}

10441 Pathogen[ P0C206] interacts with 8 human partners: {Q8TE85;Q13526;O14613;P05412;Q99569;Q9H8V3;P98171;Q9UJM3}

10442 Pathogen[ P03363] interacts with 7 human partners: {P98171;Q13526;Q99569;Q8TE85;O14613;P05412;Q9UJM3}

10443 [Cluster 950]GO:0006471+P biological\_process [name] protein ADP-ribosylation [def] "The transfer, from NAD, of ADP-ribose to protein amino acids." [RESID

10444 Pathogen[ Q2Q067] interacts with 8 human partners: {Q8IXJ6;Q9H2K2;Q9Y6E7;Q9NTG7;Q8N6T7;P09874;O95271;Q9UKK3}

10445 Pathogen[ P0C214] interacts with 8 human partners: {Q9NTG7;Q8N6T7;Q9H2K2;Q9UKK3;Q8IXJ6;O95271;Q9Y6E7;P09874}

10446 Pathogen[ P03346] interacts with 10 human partners: {Q9UKK3;Q8IXJ6;Q9Y6E7;Q9H2K2;Q8N6T7;P09874;Q9UGN5;O95271;Q9Y6F1;Q9NTG7}

10447 Pathogen[ Q85601] interacts with 10 human partners: {P09874;Q9UKK3;Q9Y6E7;Q9H2K2;Q9Y6F1;Q8IXJ6;Q8N6T7;Q9UGN5;O95271;Q9NTG7}

10448 Pathogen[ P14079] interacts with 9 human partners: {P09874;O95271;Q9UGN5;Q9H2K2;Q9UKK3;Q8N6T7;Q8IXJ6;Q9NTG7;Q9Y6F1}

10449 Pathogen[ P03383] interacts with 6 human partners: {Q8N6T7;Q9NTG7;P09874;Q9Y6E7;Q9UKK3;O95271}

10450 Pathogen[ P03410] interacts with 9 human partners: {Q8IXJ6;Q9NTG7;Q8N6T7;Q9Y6F1;Q9UGN5;O95271;P09874;Q9UKK3;Q9H2K2}

10451 Pathogen[ P14075] interacts with 6 human partners: {Q8N6T7;Q9Y6E7;Q9NTG7;O95271;P09874;Q9UKK3}

10452 Pathogen[ P0C206] interacts with 10 human partners: {O95271;P09874;Q9Y6F1;Q8N6T7;Q9UGN5;Q9UKK3;Q8IXJ6;Q9NTG7;Q9H2K2;Q9Y6E7}

10453 Pathogen[ P03363] interacts with 9 human partners: {Q9Y6E7;Q9UGN5;Q9H2K2;Q8N6T7;Q9UKK3;O95271;Q9NTG7;P09874;Q9Y6F1}

10454 [Cluster 951]GO:0043503+P biological\_process [name] skeletal muscle fiber adaptation [def] "Any process in which the skeletal muscle fibers change their phenotypic profiles in response to altered functional demands and a variety of signals. Muscle fibers are formed by the maturation of myotubes. They can be classed as slow, intermediate/fast or fast." [GOC

10455 Pathogen[ Q2Q067] interacts with 1 human partners: {P15172}

10456 Pathogen[ P0C214] interacts with 2 human partners: {P68133;P15172}

10457 Pathogen[ P03346] interacts with 1 human partners: {P15172}

10458 Pathogen[ Q85601] interacts with 2 human partners: {P68133;P15172}

10459 Pathogen[ P14079] interacts with 1 human partners: {P68133}

10460 Pathogen[ P03383] interacts with 1 human partners: {P15172}

10461 Pathogen[ P03410] interacts with 1 human partners: {P68133}

10462 Pathogen[ P14075] interacts with 1 human partners: {P15172}

10463 Pathogen[ P0C206] interacts with 2 human partners: {P68133;P15172}

10464 Pathogen[ P03363] interacts with 2 human partners: {P68133;P15172}

10465 [Cluster 952]GO:0043534+P biological\_process [name] blood vessel endothelial cell migration [def] "The orderly movement of an endothelial cell into the extracellular matrix in order to form new blood vessels during angiogenesis." [PMID

10466 Pathogen[ Q2Q067] interacts with 4 human partners: {P41134;P04792;Q6RSH7;P35579}

10467 Pathogen[ P0C214] interacts with 3 human partners: {P04792;P41134;Q6RSH7}

10468 Pathogen[ P03346] interacts with 5 human partners: {Q6RSH7;P35579;P41134;P35713;P04792}

10469 Pathogen[ Q85601] interacts with 4 human partners: {P41134;P35579;Q6RSH7;P04792}

10470 Pathogen[ P14079] interacts with 4 human partners: {P35579;Q6RSH7;P41134;P04792}

10471 Pathogen[ P03383] interacts with 3 human partners: {P04792;Q6RSH7;P35579}

10472 Pathogen[ P03410] interacts with 4 human partners: {P41134;P35579;P04792;Q6RSH7}

10473 Pathogen[ P14075] interacts with 3 human partners: {Q6RSH7;P04792;P35579}

10474 Pathogen[ P0C206] interacts with 4 human partners: {P04792;P41134;Q6RSH7;P35579}

10475 Pathogen[ P03363] interacts with 4 human partners: {P35579;Q6RSH7;P41134;P04792}

10476 [Cluster 953]GO:0060338+P biological\_process [name] regulation of type I interferon-mediated signaling pathway [def] "Any process that modulates the rate, frequency or extent of a type I interferon-mediated signaling pathway. A type I interferon-mediated signaling pathway is the series of molecular events generated as a consequence of a type I interferon binding to a cell surface receptor." [GOC

10477 Pathogen[ Q2Q067] interacts with 4 human partners: {P08238;Q16543;P52630;P42224}

10478 Pathogen[ P0C214] interacts with 4 human partners: {Q16543;P42224;P52630;O15524}

10479 Pathogen[ P03346] interacts with 5 human partners: {O15524;Q16543;P42224;P52630;P08238}

10480 Pathogen[ Q85601] interacts with 4 human partners: {Q16543;P52630;P08238;P42224}

10481 Pathogen[ P14079] interacts with 4 human partners: {P52630;P08238;P42224;Q16543}

10482 Pathogen[ P03383] interacts with 3 human partners: {Q16543;P52630;P08238}

10483 Pathogen[ P03410] interacts with 3 human partners: {Q16543;P08238;P52630}

10484 Pathogen[ P14075] interacts with 3 human partners: {P52630;Q16543;P08238}

10485 Pathogen[ P0C206] interacts with 5 human



partners:{Q16543;O15524;P08238;P42224;P52630}

10486 Pathogen[ P03363] interacts with 4 human partners:{P52630;O15524;Q16543;P08238}

10487 [Cluster 954]GO:0072156+P biological\_process [name] distal tubule morphogenesis [def] "The process in which the anatomical structures of a distal tubule are generated and organized. The distal tubule is a nephron tubule that begins at the macula densa and extends to the connecting tubule." [GOC

10488 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UH77}

10489 Pathogen[ P0C214] interacts with 1 human partners:{Q9UH77}

10490 Pathogen[ P03346] interacts with 1 human partners:{Q9UH77}

10491 Pathogen[ Q85601] interacts with 1 human partners:{Q9UH77}

10492 Pathogen[ P14079] interacts with 1 human partners:{Q9UH77}

10493 Pathogen[ P03383] interacts with 1 human partners:{Q9UH77}

10494 Pathogen[ P03410] interacts with 1 human partners:{Q9UH77}

10495 Pathogen[ P14075] interacts with 1 human partners:{Q9UH77}

10496 Pathogen[ P0C206] interacts with 1 human partners:{Q9UH77}

10497 Pathogen[ P03363] interacts with 1 human partners:{Q9UH77}

10498 [Cluster 955]GO:0071514+P biological\_process [name] genetic imprinting [def] "Any process that modulates the frequency, rate or extent of the chemical reactions and pathways involving macromolecules by a mechanism that is mediated by DNA, is mitotically or meiotically heritable, or is stably self-propagated in the cytoplasm of a resting cell, and does not entail a change in DNA sequence." [GOC

10499 Pathogen[ Q2Q067] interacts with 1 human partners:{Q99608}

10500 Pathogen[ P0C214] interacts with 1 human partners:{Q99608}

10501 Pathogen[ P03346] interacts with 1 human partners:{Q99608}

10502 Pathogen[ Q85601] interacts with 1 human partners:{Q99608}

10503 Pathogen[ P14079] interacts with 1 human partners:{Q99608}

10504 Pathogen[ P03383] interacts with 1 human partners:{Q99608}

10505 Pathogen[ P03410] interacts with 1 human partners:{Q99608}

10506 Pathogen[ P14075] interacts with 1 human partners:{Q99608}

10507 Pathogen[ P0C206] interacts with 1 human partners:{Q99608}

10508 Pathogen[ P03363] interacts with 1 human partners:{Q99608}

10509 [Cluster 956]GO:0045619+P biological\_process [name] regulation of lymphocyte differentiation [def] "Any process that modulates the frequency, rate or extent of lymphocyte differentiation." [GOC

10510 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UKT9}

10511 Pathogen[ P0C214] interacts with 1 human partners:{Q9UKT9}

10512 Pathogen[ P03346] interacts with 1 human partners:{Q9UKT9}

10513 Pathogen[ Q85601] interacts with 1 human partners:{Q9UKT9}

10514 Pathogen[ P14079] interacts with 1 human partners:{Q9UKT9}

10515 Pathogen[ P03383] interacts with 1 human partners:{Q9UKT9}

10516 Pathogen[ P03410] interacts with 1 human partners:{Q9UKT9}

10517 Pathogen[ P14075] interacts with 1 human partners:{Q9UKT9}

10518 Pathogen[ P0C206] interacts with 1 human partners:{Q9UKT9}

10519 Pathogen[ P03363] interacts with 1 human partners:{Q9UKT9}

10520 [Cluster 957]GO:0006408+P biological\_process [name] snRNA export from nucleus [def] "The directed movement of snRNA from the nucleus to the cytoplasm." [GOC

10521 Pathogen[ Q2Q067] interacts with 2 human partners:{P52298;Q9H814}

10522 Pathogen[ P0C214] interacts with 2 human partners:{Q9H814;P52298}

10523 Pathogen[ P03346] interacts with 2 human partners:{Q9H814;P52298}

10524 Pathogen[ Q85601] interacts with 2 human partners:{Q9H814;P52298}

10525 Pathogen[ P14079] interacts with 2 human partners:{P52298;Q9H814}

10526 Pathogen[ P03383] interacts with 2 human partners:{P52298;Q9H814}

10527 Pathogen[ P03410] interacts with 2 human partners:{Q9H814;P52298}

10528 Pathogen[ P14075] interacts with 2 human partners:{Q9H814;P52298}

10529 Pathogen[ P0C206] interacts with 2 human partners:{P52298;Q9H814}

10530 Pathogen[ P03363] interacts with 2 human partners:{P52298;Q9H814}

10531 [Cluster 958]GO:0051289+P biological\_process [name] protein homotetramerization [def] "The formation of a protein homotetramer, a macromolecular structure consisting of four noncovalently associated identical subunits." [GOC

10532 Pathogen[ Q2Q067] interacts with 13 human partners:{P61457;Q6UUV9;Q14749;Q9UII2;P34896;P09972;P09467;P49366;Q6UUV7;O94925;Q53ET0;P32929;Q9H0N5}

10533 Pathogen[ P0C214] interacts with 17 human partners:{Q9UI08;Q6UUV7;P61457;P34897;P32929;P49366;Q9H0N5;P09467;Q9UII2;Q53ET0;Q14749;P34896;Q6UUV9;P09972;O94925;Q9NPJ3;Q16698}

10534 Pathogen[ P03346] interacts with 14 human partners:{P09972;Q53ET0;Q9UI08;P09467;Q14749;Q9UII2;P32929;Q6UUV9;P49366;O94925;Q6UUV7;P61457;Q9H0N5;Q9NPJ3}

10535 Pathogen[ Q85601] interacts with 13 human partners:{Q9Y5T5;Q53ET0;O94925;Q9H0N5;Q6UUV9;Q9UII2;P34896;P09972;P09467;Q6UUV7;Q14749;P61457;P32929}

10536 Pathogen[ P14079] interacts with 16 human partners:{P61457;Q9UII2;P09972;Q9H773;P34897;P50552;Q9NPJ3;Q9H0N5;Q14749;O94925;P32929;Q9NWX6;P09467;P34896;P49366;Q9UI08}

10537 Pathogen[ P03383] interacts with 12 human partners:{O94925;Q6UUV9;P34896;P09467;P09972;P61457;P49366;Q9UII2;Q6UUV7;Q9H0N5;Q53E

10538 T0;Q14749}  
Pathogen[ P03410] interacts with 19 human  
partners: {Q9UUU7;Q9UI08;Q14749;Q9H773;P32929;Q9NPJ3;Q6UUUV9;P09467;O94925;Q53ET0;Q9UI  
I2;P09972;P50552;P49366;Q9H0N5;Q9NWX6;P34897;P34896;P61457}

10539 Pathogen[ P14075] interacts with 12 human  
partners: {P34896;Q53ET0;P49366;Q9UII2;Q9H0N5;Q6UUUV9;P61457;O94925;P09972;Q6UUUV7;Q147  
49;P09467}

10540 Pathogen[ P0C206] interacts with 17 human  
partners: {Q9NPJ3;Q9Y5T5;P09467;P34897;Q9UI08;P49366;Q6UUUV9;P34896;P32929;P61457;O949  
25;Q53ET0;P09972;Q14749;Q9H0N5;Q6UUUV7;Q9UII2}

10541 Pathogen[ P03363] interacts with 11 human  
partners: {Q9NPJ3;Q53ET0;Q9H0N5;O94925;P09972;P49366;P61457;Q9UI08;Q14749;Q6UUUV9;Q6UU  
V7}

10542 [Cluster 959]GO:0007498+P biological\_process [name] mesoderm development [def] "The  
process whose specific outcome is the progression of the mesoderm over time, from its  
formation to the mature structure. The mesoderm is the middle germ layer that develops  
into muscle, bone, cartilage, blood and connective tissue." [GOC

10543 Pathogen[ Q2Q067] interacts with 4 human partners: {Q13485;P67775;Q86YC2;Q9UKT9}

10544 Pathogen[ P0C214] interacts with 5 human  
partners: {Q14696;Q13485;P67775;Q86YC2;Q9UKT9}

10545 Pathogen[ P03346] interacts with 7 human  
partners: {P78415;Q9UKT9;P67775;Q9BYE0;O95863;Q86YC2;Q13485}

10546 Pathogen[ Q85601] interacts with 4 human partners: {Q86YC2;P67775;Q13485;Q9UKT9}

10547 Pathogen[ P14079] interacts with 3 human partners: {Q14696;Q86YC2;Q9UKT9}

10548 Pathogen[ P03383] interacts with 5 human  
partners: {Q13485;P67775;Q14696;Q9UKT9;Q86YC2}

10549 Pathogen[ P03410] interacts with 5 human  
partners: {Q9UKT9;Q13485;Q14696;P67775;Q86YC2}

10550 Pathogen[ P14075] interacts with 5 human  
partners: {Q86YC2;Q13485;Q14696;Q9UKT9;P67775}

10551 Pathogen[ P0C206] interacts with 7 human  
partners: {Q86YC2;P67775;Q9BYE0;Q13485;Q13422;Q9UKT9;Q14696}

10552 Pathogen[ P03363] interacts with 6 human  
partners: {P78415;Q9BYE0;Q13485;Q9UKT9;P67775;Q86YC2}

10553 [Cluster 960]GO:0070314+P biological\_process [name] G1 to G0 transition [def] "A  
cell cycle arrest process that results in arrest during G1 phase, whereupon the cell  
enters a specialized resting state known as G0 or quiescence." [GOC

10554 Pathogen[ Q2Q067] interacts with 1 human partners: {Q15910}

10555 Pathogen[ P0C214] interacts with 1 human partners: {Q15910}

10556 Pathogen[ P03346] interacts with 1 human partners: {Q15910}

10557 Pathogen[ Q85601] interacts with 1 human partners: {Q15910}

10558 Pathogen[ P14079] interacts with 1 human partners: {Q15910}

10559 Pathogen[ P03383] interacts with 1 human partners: {Q15910}

10560 Pathogen[ P03410] interacts with 1 human partners: {Q15910}

10561 Pathogen[ P14075] interacts with 1 human partners: {Q15910}

10562 Pathogen[ P0C206] interacts with 1 human partners: {Q15910}

10563 Pathogen[ P03363] interacts with 1 human partners: {Q15910}

10564 [Cluster 961]GO:0016567+P biological\_process [name] protein ubiquitination [def]  
"The process in which one or more ubiquitin groups are added to a protein." [GOC

10565 Pathogen[ Q2Q067] interacts with 164 human  
partners: {O95376;Q2YD98;Q8NH2;Q96J02;Q5TAQ9;Q8WV44;P31749;Q14258;Q93034;Q9UPN9;Q9HA  
U4;Q7Z6J0;Q5JXB2;Q13356;Q9Y5A7;Q8WW12;Q9UJX3;Q9UJX5;Q9Y4B6;Q96DX5;P62837;P53804;Q8IW  
V8;Q15386;Q13829;P19474;O60260;Q9UDY8;P49427;O00762;Q9Y2X8;O43255;Q96T88;Q9NVW2;Q9NZ  
J0;Q12933;P14373;P60604;Q86WB0;Q9UJT9;Q8TEL6;Q6ZNA4;P63279;Q6VVB1;Q16531;Q9NYG5;Q9H1  
A4;Q7Z6Z7;P51965;Q9Y3I1;Q86VP6;P35227;Q14669;P61077;Q8IXQ5;Q9UJX2;P63146;Q9Y297;Q96G  
25;Q9UK73;P78317;Q9H2C0;Q5TA31;Q86Y13;O14508;Q9UM13;P40337;Q99728;Q96DE5;Q15370;Q9Y4  
X5;Q9UBF6;Q9NPD8;O14933;Q12834;P41002;O95628;P51668;Q8TBB1;Q96EP1;Q13114;Q96PM5;Q86U  
W9;Q9NTX7;Q6RSH7;Q96PU5;Q13616;Q99618;Q8TEB1;Q969P5;O15164;P61088;Q9Y4L5;O60291;Q53G  
59;Q8NHZ8;Q13618;Q99496;Q5VTR2;Q96FA3;Q9UKT7;O76064;Q13309;Q15819;Q9UK99;Q9NWF9;Q132  
16;Q8TDB6;Q9HOC5;Q9UM11;Q9C035;Q9UJX4;O43791;Q13620;Q99619;Q13619;Q9Y2M5;Q969H0;O751  
50;Q9NR09;Q8TCJ0;Q9UNE7;Q14139;P49459;Q96PU4;Q05086;P62256;P68036;Q96SW2;Q9H3F6;Q9UJ  
X6;Q9NRD1;P61962;Q14512;Q92466;Q86Y01;Q96A44;P30260;Q86XK2;Q9HAT8;Q9UH90;Q9Y252;O004  
63;Q9UH77;Q13042;P22681;Q9NT62;Q00987;Q9UMS4;Q9BS18;Q66K89;O15205;P63208;Q06587;Q136  
17;Q9UKT5;P62877;Q8IUD6;Q7Z6E9;Q9NW38;Q9NXF7;Q13064;Q9UBS8;Q14999}

10566 Pathogen[ P0C214] interacts with 195 human  
partners: {P22681;Q05086;O14933;Q96B02;Q9UJX6;Q9UKA1;Q96J02;Q14527;Q9H832;Q13619;Q136  
17;Q8IUV8;Q9Y3I1;Q7Z6J0;Q16763;Q96PM5;P35227;Q8WW12;P19474;Q9HAU4;Q9UK99;Q99728;Q136  
20;Q8WV44;Q9BS18;O00762;P41002;Q9UH90;Q96A44;O95628;Q13829;Q00987;Q13309;P49427;Q9UJ  
P4;Q9C035;Q9UDY8;Q96FA3;Q9UJX5;Q9NXF7;P63208;Q86WB0;P61962;Q9NTX7;Q96PU4;Q5JXB2;Q8IU  
D6;P63279;Q9HAT8;P49459;Q8NH2;Q8NG27;Q13618;Q93034;Q969T4;Q15370;Q9NRD1;Q14999;Q9UJ  
X2;Q9Y297;Q8NH2H9;P62877;O00308;Q5T447;Q13064;P51965;Q96T88;Q9UKT7;P78317;Q9H0M0;Q9NW  
F9;Q9UMS4;Q5TAQ9;P61077;Q13216;Q9HCE7;Q14258;Q969P5;P62253;Q96DX5;Q15819;Q9H1A4;Q53G  
59;P61086;O95071;Q7Z6E9;Q06587;Q9Y2X8;Q9Y4B6;Q14139;Q13356;Q6P050;Q15386;O95376;Q129  
33;Q9NVW2;O43791;Q96SW2;Q9Y2M5;Q8NHZ8;Q12834;Q9NZJ0;P40337;P53804;Q9UBS8;Q8WZ19;Q996  
18;O15205;Q99619;O14508;Q13616;Q8TBB1;Q9Y252;Q969H0;Q8IXQ5;Q5TA31;Q6ZNA4;Q99496;Q9H4  
P4;Q14669;O60291;Q8TEL6;O15164;Q13114;Q9UJX4;O94952;Q9NPC3;Q86XK2;Q9H469;Q86Y13;O751

- 50;Q9NR09;Q9UJX3;Q7Z6Z7;O95155;O60260;Q9Y5A7;Q9UK73;Q712K3;P62256;Q9Y4L5;Q9H3F6;Q9UM11;Q9H2C0;P51668;P14373;O14512;O00463;Q92466;Q86Y01;Q9Y4X5;Q96G25;Q5VTR2;P30260;Q8TD B6;Q8IYW5;Q8TCJ0;O43255;Q9NT62;Q9UNE7;Q96CA5;O15524;O76064;Q9NPD8;Q9UPN9;P61081;Q9UJ T9;Q96LR5;Q9NYG5;Q16531;Q86UW9;Q66K89;Q86VP6;Q9UM13;Q9UBF6;Q9UH77;Q5XUX0;P63146;Q6VV B1;P31749;P61088;Q9NV06;Q96PU5;Q9NW38;Q8TEB1;Q8IYW7;Q96EP1;P55072;Q6RSH7;Q9UKT5;Q9UK T8;P60604;Q96DE5;Q13042;Q9H0C5}
- 10567 Pathogen[ P03346] interacts with 225 human partners: {Q9NZJ0;Q8NEA9;Q9NS91;Q9UPN9;Q96J02;O00463;Q5T6F0;O75592;Q9UKT7;Q13263;Q153 70;Q6RSH7;Q86UW9;Q9H9P5;O15524;O76064;Q9HAU4;Q53GT1;Q9P2N7;Q9H765;Q9H469;Q8WZ19;Q96P U5;P68036;Q14258;P14373;Q6PCD5;Q96NS5;O75150;Q9UM11;Q9UH77;Q13616;Q9NWF9;Q5VTR2;Q7Z6 J0;O95155;Q96A44;Q9BS18;O95376;Q9UJT9;O95714;P49427;Q99728;Q9UDY8;Q8NH2;O75159;Q8IU D6;O95628;Q14527;Q8WW12;Q9UMS4;Q8IXQ5;Q969U6;Q16531;Q13618;Q86WB0;Q58WW2;Q8WXK3;Q96P M5;Q9H4P4;O43255;Q6P050;P35227;O14682;Q9NTX7;Q9UKT8;Q9UM13;Q9C035;Q8WV22;Q9H2C0;Q9NT 62;P63279;Q9NYG5;Q9NRJ4;Q86XK2;Q13438;Q15386;P49459;Q9Y2X8;P41002;Q5TA31;O60662;Q131 14;Q9Y4B6;P55072;Q969P5;Q13829;P51668;Q66K89;Q5T447;Q96AX9;P61077;Q93034;O14508;Q009 87;P61962;Q12834;Q96FA3;Q13620;P61088;Q9UKA1;Q96G25;Q96SW2;Q9UJX6;P62877;Q96DX5;Q9NV 06;Q8TCJ0;Q14139;Q96DE5;Q8IYM9;P60604;Q9Y5A7;P31749;O94972;Q13042;P51965;Q13309;Q9UJ X5;Q7Z6E9;Q5TAQ9;P63146;Q9UKT5;Q9UNE7;O00762;Q9UJX2;Q9Y6I7;Q9NXF7;Q9HAT8;Q8N2H9;Q146 69;O15205;P62837;Q13064;Q99619;Q9NRD1;Q8IUQ4;O43791;Q9C040;Q6ZNA4;Q6Q0C0;Q9UJX3;Q8NH Z8;P63208;Q9NPD8;Q99496;Q13356;Q13216;P78317;Q2YD98;Q8IYW5;Q8TBB1;Q6VVVB1;Q9UBS8;Q9H1 A4;P40337;O60291;Q9BUZ4;Q9UH90;O60260;Q7Z6J8;Q9UJX4;O94952;Q9NPC3;Q13619;Q8IYW8;P194 74;O14933;Q14999;Q9NR09;Q86VP6;Q9ULT8;Q8TEL6;Q5H9S7;Q9P2J3;Q9UK99;Q9Y4L5;Q5JXB2;Q96P U4;P22681;Q05086;P62256;Q8TDB6;Q9H0M0;Q9H3F6;Q9Y2M5;P53804;O14512;Q9Y4X5;Q92466;Q9Y2 52;Q9NW38;Q86Y01;O95071;Q96BD6;Q9UJP4;Q9BZR9;P30260;Q96CA5;Q8NG27;Q9Y297;Q969H0;P0C2 W1;Q7Z6Z7;Q06587;Q9Y3I1;O94822;Q8TEC5;Q99618;Q9UBF6;Q8TEB1;O15164;Q5XUX0;A0AVT1;Q9UK 73;Q96T88;Q86Y13;Q9NVW2;Q96EP1;Q6IQ16;Q9H0C5;Q8WV44;O00308;Q13617;Q15819}
- 10568 Pathogen[ Q85601] interacts with 196 human partners: {Q14139;Q9UJX2;Q7Z6E9;Q9UPN9;Q96J02;P78317;Q15370;Q13064;Q9Y3I1;Q13309;P622 53;P22681;Q9HAU4;Q96DE5;P14373;Q9UJX6;Q16763;P31749;Q8TDB6;P63146;O14933;Q8WZ19;Q142 58;Q8WV44;Q969H0;P61962;Q16531;Q8IYW7;O00463;Q96A44;O95714;P49427;Q9Y2X8;Q9BS18;Q9UD Y8;Q13216;P62877;Q96SW2;P40337;Q8NHZ8;Q9UMS4;Q6PCD5;Q9H1A4;Q86WB0;Q9HAT8;Q96PM5;Q96P U4;Q99728;Q9Y4L5;Q9NZJ0;Q13616;Q6P050;Q96G25;Q96PU5;Q969T4;Q86VP6;Q9BZR9;Q14669;Q9NW F9;Q5TAQ9;Q86XK2;Q8IUD6;Q15386;O95155;Q96DX5;Q96B02;O15164;Q9NPD8;P41002;Q5TA31;Q131 14;Q9Y4B6;O43791;P51668;Q96LR5;P68036;P61077;Q9UJP4;P63279;O14508;Q12834;Q96FA3;Q9UK A1;Q13263;O60291;Q8TEB1;Q7Z6J0;Q9H2C0;Q9UKT7;Q86UW9;Q9UK73;P63208;O76064;Q8WZ19;Q130 42;Q9UJX5;Q12933;P51965;Q8IXQ5;Q9UBF6;Q9H469;Q99618;O95628;Q9UM13;Q8IYM9;Q9UJT9;Q9NY G5;P61086;O15205;Q96T88;O00762;Q9NTX7;Q9NW38;Q9UJX3;Q99496;Q13356;P49459;Q8IYW5;Q8TB B1;Q6VVVB1;Q9H0C5;Q9C035;Q9NXF7;O75150;O95376;O60260;Q9NT62;Q9UJX4;Q9P2J3;Q5VTR2;Q9UM 11;Q9Y252;P62837;Q9NPC3;Q6RSH7;Q4G163;Q6ZNA4;Q14999;Q9H832;Q9NR09;Q9UBS8;Q7Z6Z7;Q9NV 06;Q9Y2M5;Q9UK99;Q5JXB2;Q05086;Q66K89;P62256;Q9Y5A7;Q13620;Q13618;Q96EP1;O94952;Q9H3 F6;Q53G59;Q9H4P4;P19474;P53804;O14512;Q92466;Q86Y01;P61088;O95071;Q14527;O43255;Q138 29;Q9UKT8;P30260;Q6Q0C0;Q9UH77;Q00987;P60604;Q8TCJ0;Q96CA5;Q8NG27;Q9UKT5;Q9UNE7;Q8WV 22;Q13619;Q8NH2;Q06587;Q9Y4X5;Q93034;Q86Y13;Q9NVW2;Q99619;Q8TEL6;Q8IYW8;Q9NS91;Q969 P5;P35227;Q9NRD1;Q9UH90;Q13617;Q15819}
- 10569 Pathogen[ P14079] interacts with 149 human partners: {Q5TAQ9;Q5XUX0;O00463;O60260;P53804;O15164;Q9UKT5;O95628;Q9HAT8;P51965;Q5TA 31;P63279;P14373;Q9NXF7;Q8TEL6;Q9NT62;Q969H0;Q9C035;Q8IYW8;P68036;Q13309;Q5JXB2;Q158 19;Q9UBF6;Q13620;Q9UJX3;Q13618;Q9H1A4;Q9NPD8;Q9UJX5;Q16531;P60604;Q8N2H9;Q66K64;Q6ZN A4;Q8TCJ0;Q969P5;Q86XK2;Q8WXJ9;Q13216;Q7Z6J8;Q9HAU4;Q14258;P61077;Q9BUZ4;P62877;Q96F A3;Q8IYW7;Q9NR09;Q00987;Q8TBB1;Q9NYG5;P62256;Q9UK73;Q9NPC3;P40337;Q7Z6E9;Q9NV 06;Q8WW12;Q86Y01;Q99496;P51668;Q8NHZ8;Q9UMS4;Q9H2C0;Q13356;Q15345;Q9UPN9;Q9NWF9;P194 74;Q9UH90;Q9UM11;Q5H9S7;Q4G163;Q5VTR2;O15205;Q9UM13;Q13042;Q6P050;Q96DE5;Q93034;Q66K 89;P41002;P49459;Q86UW9;Q15370;Q9Y4B6;Q9Y2M5;Q9UK99;Q96DX5;Q96J02;P61962;O94952;Q9UJ X6;Q86WB0;Q14139;Q96A44;Q13617;Q9UH77;Q13064;O14508;Q12933;P35227;Q9Y2X8;O14512;P494 27;P30260;Q6RSH7;Q9UBS8;O43791;P78317;Q9UKT7;Q62837;Q9NRD1;Q9NZJ0;Q92466;O00762;Q9UJ P4;Q13829;P63208;Q9UJT9;Q13616;Q96SW2;Q86VP6;Q53G59;Q5T6F0;Q2YD98;Q8WV44;Q9Y3I1;Q9NW 38;Q9Y5A7;Q96G25;O14933;Q8TEB1;P63146;Q9UJX4;Q14999;Q9BS18;Q9H3F6;Q99619;Q8IUD6;Q136 19;Q13114;Q9BR09;Q13438;Q8NH2;Q06587;Q9H0C5}
- 10570 Pathogen[ P03383] interacts with 130 human partners: {P35227;P41002;Q8NHZ8;Q13616;P19474;Q9Y3I1;Q86UW9;Q9Y4B6;Q6P050;O14933;P538 04;Q8TBB1;Q96DE5;Q9NZJ0;Q13216;Q9NYG5;Q13356;Q14139;P51965;Q9UJX6;P40337;Q9H0C5;Q9UK 73;Q9UPN9;Q8IYW8;Q5JXB2;P49427;P31749;O43791;Q93034;Q9Y2X8;Q96SW2;Q9UBS8;Q86WB0;Q96P U4;Q06587;O00762;Q9NTX7;Q96G25;Q6ZNA4;Q86XK2;P78317;Q9H1A4;Q9H2C0;Q9NT62;P63208;Q96D X5;Q13064;Q9UKT7;Q13042;Q6RSH7;Q66K89;Q8WW12;Q13618;Q9618;Q99618;Q9NXF7;P610 88;Q12834;Q9Y5A7;Q8TEL6;Q9C035;O60260;Q9UM13;P60604;Q96A44;Q15819;Q53G59;Q5TA31;Q129 33;Q9UBF6;Q9UKT5;Q9UM11;O95376;Q9UH77;Q9BS18;Q86VP6;Q96PM5;Q8TCJ0;P62837;P61962;O432 55;Q99496;Q969H0;Q9H832;Q5VTR2;Q9Y252;Q13617;Q9UJX4;Q96FA3;P68036;Q9UJX5;P62877;Q9NR 09;Q13309;P49459;Q15370;Q9Y2M5;Q9NPD8;Q14258;P62256;P63146;Q16531;Q96EP1;O94952;Q9H3 F6;Q9NRD1;Q9UJX2;O14512;Q8NH2;Q92466;Q9NW38;Q86Y01;Q13829;P30260;O75150;Q9NWF9;O152 05;Q9UJX3;Q13114;Q2YD98;Q5XUX0;P63279;Q9UMS4;P51668;Q14999;Q99619;Q9HAT8;Q13620}
- 10571 Pathogen[ P03410] interacts with 154 human partners: {Q86UW9;Q8IYW8;Q9BS18;Q8NH2;Q4G163;Q9UH77;Q9H469;Q53G59;Q86WB0;Q8WXJ9;Q9UK T7;Q13829;Q6ZNA4;O15205;Q99496;Q9NRD1;O95628;Q96SW2;Q8TEL6;Q9UK99;Q9H1A4;Q99618;Q96G 25;Q66K89;P49427;Q9NV06;Q8TCJ0;Q8WV44;Q13620;Q9NWF9;P51965;Q96FA3;Q9BR09;Q9UJX4;Q9NY G5;Q96DX5;Q9Y3I1;Q8TBB1;Q8IXQ5;Q9UM13;Q9NPC3;Q8WZ19;Q8NHZ8;P49459;Q9UKT5;P31749;Q9Y5 A7;Q5VTR2;Q15370;Q5TA31;O60260;Q8IYW7;P68036;P61088;Q5XUX0;P35227;Q92466;Q14258;Q158

19;P41002;O14933;Q5JXB2;Q8N2H9;Q13356;Q9UBF6;Q9P2J3;Q9NR09;Q9C035;Q9UNE7;Q9H3F6;Q13618;P63208;Q86Y01;O75150;Q5H9S7;Q99619;Q8TEB1;Q9UM11;Q13042;Q8WXX3;O14508;Q13309;Q969H0;Q7Z6J0;Q86XK2;Q9UBS8;Q969P5;P62256;O00463;P78317;Q2YD98;P62877;Q9Y4X5;P63146;Q9H0C5;Q96A44;Q96DE5;Q9Y2X8;Q86VP6;Q13064;Q12933;Q9NT62;P51668;Q9HAT8;Q9UJX5;P61962;Q5T6F0;Q6P050;Q16531;Q9UK73;Q12834;Q8WW12;P30260;Q13216;Q66K64;Q6RSH7;Q969U6;Q13616;Q9UJX3;Q9NPD8;O00762;Q13619;Q9UMS4;P63279;Q7Z6J8;Q9H2C0;Q06587;Q14139;O60291;Q13617;Q9UJX4;Q90987;P60604;O14512;Q5TAQ9;O43791;Q9NW38;Q9UJT9;O94952;P53804;Q96NS5;Q9NXF7;Q9Y4B6;Q93034;Q13438;Q9UJX6;Q96EP1;Q9Y2M5;Q9UPN9;Q13114;P40337;P61077;P62837;Q9NZJ0}

10572 Pathogen[ P14075] interacts with 129 human partners: {Q5VTR2;P53804;P60604;Q9BS18;Q9UK73;Q15819;Q96PM5;Q13042;Q9H2C0;P68036;Q9NTX7;Q93034;P62837;Q13618;Q6P050;Q99619;Q13064;P49427;Q9NT62;Q9UM11;P61088;Q9UKT7;Q9Y252;P49459;Q8WW12;Q14139;Q86WB0;Q96PU4;P51965;Q53G59;Q6RSH7;Q13620;O14933;Q13216;Q7Z6J8;Q9Y2X8;P63279;Q9Y3I1;Q9UJX2;P61077;Q8TEL6;O43255;Q96A44;Q9NW38;Q9UJX6;Q9NPD8;Q8NHZ8;Q96DX5;Q9UKT5;P63208;Q96SW2;Q14999;Q95628;Q9NWF9;Q06587;P31749;Q96DE5;Q6ZNA4;O00762;Q9Y5A7;Q15370;Q9UJX5;Q12933;Q2YD98;Q9UPN9;Q8TCJ0;O75150;Q9HAT8;Q86VP6;Q96FA3;P19474;Q16531;Q13309;Q9UH77;Q9C035;Q13114;P78317;Q9UMS4;Q14258;Q8NHY2;Q99496;Q66K89;Q9UJX4;O94952;Q5H9S7;Q9NRD1;O95376;Q9NR09;Q9UBS8;Q9NXF7;Q9H0C5;Q86XK2;O43791;Q9H1A4;P62256;P63146;Q5TA31;P61962;Q9H3F6;Q99618;Q9Y2M5;P41002;O14512;Q13829;Q92466;Q13616;Q9NZJ0;Q86Y01;Q9UM13;Q96G25;Q8TBB1;P40337;P30260;Q9UJX3;P51668;Q9NYG5;O60260;Q969H0;O15205;Q13617;Q9UBF6;Q5XUX0;Q12834;P62877;P35227;Q86UW9;Q96EP1;Q8IYW8;Q9Y4B6}

10573 Pathogen[ P0C206] interacts with 216 human partners: {Q16763;Q9Y2X8;Q9UJT9;Q86Y01;Q2YD98;Q96AX9;Q9P2N7;Q9H765;Q9UMS4;Q96PU5;Q8IXQ5;Q13829;O60291;P62877;Q9NPD8;P62253;Q6PCD5;Q8TEB1;Q8N2H9;Q8WV22;Q9H4P4;P31749;Q86UW9;Q96DX5;Q8WW12;Q9UJX3;Q9UPN9;Q9Y4L5;Q7Z6J0;Q13114;O43791;Q9NVW2;O43255;Q13263;Q8IYW5;O95376;Q13309;O00308;Q9HAU4;Q9UDY8;Q6P050;Q5JXB2;P68036;O14933;Q8NG27;Q9UK73;Q86XK2;Q14258;Q96EP1;Q9UJX5;Q9UJX2;Q6ZNA4;Q969P5;O94822;Q9UJX5;Q99619;Q8IUQ4;Q05086;Q96J02;Q9HAT8;Q9UH90;Q9NWF9;Q99618;Q969H0;Q96LR5;P62837;P53804;Q9NS91;Q16531;Q9NPC3;O15164;O94952;Q8IUD6;O15524;O95155;O15205;Q13616;Q12933;P78317;Q8TCJ0;P49427;Q14669;P30260;Q5VTR2;Q13216;Q13620;O95628;Q5TA31;Q8TDB6;Q15386;Q9UBF6;Q9Y4X5;Q712K3;Q9UJX4;Q9BS18;P51965;Q14999;Q13064;Q9H1A4;Q13619;Q9BUZ4;Q9NRD1;Q9UKT7;P61088;Q13617;Q96SW2;Q9NYG5;Q9UJX4;Q8WV219;Q7Z6J8;P60604;P22681;Q9NR09;Q13618;Q9BZR9;Q6RSH7;Q8NHY2;Q9IWW7;Q9UNE7;P63208;Q14139;P49459;Q9UBS8;Q96T88;Q06587;Q9NV06;Q9P2J3;O14508;O60260;Q8TEL6;Q99728;Q8TBB1;P62256;Q15370;Q9UM11;Q15819;Q969T4;O00762;Q5TAQ9;Q9H3F6;Q9C035;Q9NRJ4;P55072;Q8IYW8;Q9BR09;P61962;O00463;Q9NZJ0;Q9H0C5;Q14527;Q9UJX6;Q13356;Q9UKT8;Q96FA3;Q8IYW9;Q5H9S7;Q9H832;Q9NXF7;Q86WB0;Q96CA5;Q5T6F0;Q96PM5;Q13438;Q96DE5;Q9Y2M5;Q9UK99;Q5XUX0;Q8WV44;P61077;Q93034;Q92466;Q7Z627;Q9NT62;Q9Y3I1;P61086;P14373;Q02987;Q9Y4B6;Q9UM13;O14512;Q7Z6E9;Q9NTX7;Q53G59;Q66K89;Q96B02;Q13042;Q9Y252;O76064;Q4G163;Q96A44;Q9H469;Q96G25;Q86VP6;Q86YT6;Q9Y5A7;Q9UKT5;O95071;P51668;Q9UH77;P41002;Q6VVB1;O75150;O95714;Q9H2C0;Q86Y13;Q12834;Q6Q0C0;Q969U6;Q99496;Q96PU4;Q8NHZ8;Q9NW38;P40337;P63146;P19474;P35227}

10574 Pathogen[ P03363] interacts with 222 human partners: {Q14139;O95376;P22681;Q9UJX2;Q9NWF9;Q9NYG5;Q96JP0;Q96A44;Q86Y01;Q9NW38;Q9Y252;Q8TDB6;O15205;Q13309;O75159;Q9H832;O94972;Q13042;Q96EP1;P51965;Q8WXX3;P60604;Q15370;Q9BZR9;Q96NS5;Q9BR09;Q86WB0;P49459;O95628;Q9H9P5;O15524;O14682;O00762;P35227;Q9HAU4;O60291;Q96DE5;P14373;P22314;Q9UJT9;Q9H765;Q86Y13;Q14933;Q7Z569;Q8WW12;P61081;Q14258;Q9P2N7;Q13356;Q16531;Q9ULT8;Q13618;O95155;Q7Z6E9;Q12933;O00463;Q2YD98;Q9H0C5;Q9NTX7;P78317;Q9NPC3;Q8NHZ8;Q9UBF6;Q8WV44;Q9UJX3;Q5VTR2;Q66K89;Q13617;Q99496;Q9UPN9;Q8IYW5;Q5TAQ9;Q8TBB1;Q6VVB1;P63146;Q9UJX5;Q9NT62;Q8N2H9;P30260;P49427;P40337;Q5JXB2;Q05086;P41002;Q9NXF7;Q9Y6I7;Q9C040;Q6P050;Q9UJX6;O75150;Q9UM11;Q6ZNA4;Q9BS18;Q7Z6J8;Q8NG27;Q9UJX4;Q96DE5;P61088;Q6RSH7;Q13619;Q9Y3I1;O94952;Q14669;Q8IXQ5;Q5T6F0;Q9Y4X5;Q13616;Q14999;P62877;Q9NR09;Q96FA3;Q96PU5;Q9Y2M5;Q8TEB1;Q9UK99;P31749;Q14527;Q9UKT5;Q6PCD5;Q9UNE7;Q86UW9;P19474;Q9UH90;Q13620;Q9UKT8;Q99619;Q9H1A4;Q96PM5;Q969H0;P62256;Q9C035;Q53G59;Q969T4;P63279;Q9UKA1;Q9H3F6;O95071;Q96SW2;Q9UBS8;Q86XK2;Q99618;Q9H4P4;Q15386;P51668;Q9UBE0;Q13829;Q8IUD6;Q9P2J3;Q969P5;Q92466;Q8NEA9;O00308;Q13438;Q9UM13;Q9NPD8;O95714;Q9UJX4;Q5TA31;Q6IQL6;Q7Z650;Q9UH77;P53804;Q13114;Q8TCJ0;Q96T88;Q96CA5;Q96DX5;Q9Y4L5;Q86VP6;Q8WV22;P61077;Q8IYW8;Q9NVW2;Q93034;O14508;P61962;Q12834;Q9NRJ4;Q8NHY2;Q06587;Q99728;Q9UMS4;O94822;Q9HAT8;Q13216;O60662;Q8TEC5;Q9Y2X8;P62837;O14512;Q53G59;Q969U6;Q9H0M0;Q9UKT7;Q9H2C0;Q8WZ19;Q9BUZ4;Q96PU4;O43255;Q5XUX0;Q9Y4B6;Q9NZJ0;Q9NS91;Q9NRD1;Q9UK73;Q96G25;Q66K64;Q58WW2;Q9NWX5;Q9NV06;P63208;Q9H469;Q7Z7E8;Q5T447;O43791;A0AVT1;Q9Y5A7;Q96AX9;P68036;Q96BD6;Q8TEL6;Q15819}

10575 [Cluster 962]GO:0006878+P biological\_process [name] cellular copper ion homeostasis [def] "Any process involved in the maintenance of an internal steady state of copper ions at the level of a cell." [GOC

10576 Pathogen[ Q2Q067] interacts with 2 human partners: {P04156;P02795}

10577 Pathogen[ P0C214] interacts with 2 human partners: {P02795;P04156}

10578 Pathogen[ P03346] interacts with 2 human partners: {P02795;P04156}

10579 Pathogen[ Q85601] interacts with 2 human partners: {P02795;P04156}

10580 Pathogen[ P14079] interacts with 6 human partners: {P02795;P04156;Q9UKY0;O75880;O00244;O43819}

10581 Pathogen[ P03383] interacts with 2 human partners: {P04156;P02795}

10582 Pathogen[ P03410] interacts with 5 human partners: {Q9UKY0;P02795;P04156;O75880;O43819}

10583 Pathogen[ P14075] interacts with 2 human partners: {P04156;P02795}

10584 Pathogen[ P0C206] interacts with 3 human partners: {P04156;Q9UKY0;P02795}

10585 Pathogen[ P03363] interacts with 2 human partners: {P02795;P04156}

10586 [Cluster 963]GO:0045445+P biological\_process [name] myoblast differentiation [def]

"The process in which a relatively unspecialized cell acquires specialized features of a myoblast. A myoblast is a mononucleate cell type that, by fusion with other myoblasts, gives rise to the myotubes that eventually develop into striated muscle fibers." [CL

10587 Pathogen[ Q2Q067] interacts with 5 human  
partners: {Q92585;Q9NR56;P06400;P15172;Q9BQA5}

10588 Pathogen[ P0C214] interacts with 5 human  
partners: {Q92585;Q9NR56;P15172;Q9BQA5;P06400}

10589 Pathogen[ P03346] interacts with 5 human  
partners: {Q92585;P06400;P15172;Q9NR56;Q9BQA5}

10590 Pathogen[ Q85601] interacts with 5 human  
partners: {Q92585;P15172;P06400;Q9NR56;Q9BQA5}

10591 Pathogen[ P14079] interacts with 3 human partners: {Q9BQA5;Q9NR56;Q92585}

10592 Pathogen[ P03383] interacts with 5 human  
partners: {Q92585;P15172;Q9NR56;P06400;Q9BQA5}

10593 Pathogen[ P03410] interacts with 4 human partners: {Q9BQA5;Q9NR56;P06400;Q92585}

10594 Pathogen[ P14075] interacts with 5 human  
partners: {Q92585;Q9BQA5;P15172;Q9NR56;P06400}

10595 Pathogen[ P0C206] interacts with 5 human  
partners: {Q9NR56;Q9BQA5;P15172;Q92585;P06400}

10596 Pathogen[ P03363] interacts with 5 human  
partners: {Q9NR56;P06400;Q9BQA5;P15172;Q92585}

10597 [Cluster 964]GO:0072659+P biological\_process [name] protein localization in plasma membrane [def] "A process in which a protein is transported to, or maintained in, a specific location in the plasma membrane." [GOC

10598 Pathogen[ Q2Q067] interacts with 3 human partners: {Q12959;Q14244;O95429}

10599 Pathogen[ P0C214] interacts with 3 human partners: {Q14244;O95429;Q12959}

10600 Pathogen[ P03346] interacts with 4 human partners: {Q96S99;Q14244;O95429;Q12959}

10601 Pathogen[ Q85601] interacts with 4 human partners: {Q96S99;Q14244;Q12959;O95429}

10602 Pathogen[ P14079] interacts with 5 human  
partners: {P31751;O95429;O60895;Q14244;Q96S99}

10603 Pathogen[ P03383] interacts with 2 human partners: {Q14244;O95429}

10604 Pathogen[ P03410] interacts with 7 human  
partners: {Q96S99;O60895;O60895;Q0JRZ9;Q12959;O95429;Q14244}

10605 Pathogen[ P14075] interacts with 2 human partners: {O95429;Q14244}

10606 Pathogen[ P0C206] interacts with 4 human partners: {Q14244;O95429;Q96S99;Q12959}

10607 Pathogen[ P03363] interacts with 3 human partners: {Q12959;Q14244;O95429}

10608 [Cluster 965]GO:0043149+P biological\_process [name] stress fiber assembly [def] "The aggregation, arrangement and bonding together of a set of components to form a stress fiber. A stress fiber is a contractile actin filament bundle that consists of short actin filaments with alternating polarity." [GOC

10609 Pathogen[ Q2Q067] interacts with 5 human  
partners: {Q13829;P11831;Q13618;Q9BX66;P61586}

10610 Pathogen[ P0C214] interacts with 6 human  
partners: {Q13829;P61586;Q9BX66;P11831;Q13618;Q8WZ19}

10611 Pathogen[ P03346] interacts with 6 human  
partners: {Q8WZ19;P11831;Q13618;Q9BX66;Q13829;P61586}

10612 Pathogen[ Q85601] interacts with 6 human  
partners: {P11831;Q8WZ19;Q9BX66;P61586;Q13618;Q13829}

10613 Pathogen[ P14079] interacts with 5 human  
partners: {P15502;Q13618;P61586;Q13829;Q9BX66}

10614 Pathogen[ P03383] interacts with 5 human  
partners: {P11831;Q13618;P61586;Q13829;P15502}

10615 Pathogen[ P03410] interacts with 7 human  
partners: {P11831;Q13829;Q8WZ19;Q13618;P15502;P61586;Q9BX66}

10616 Pathogen[ P14075] interacts with 5 human  
partners: {Q13618;P11831;P15502;P61586;Q13829}

10617 Pathogen[ P0C206] interacts with 7 human  
partners: {Q13829;P15502;P61586;Q8WZ19;Q13618;Q9BX66;P11831}

10618 Pathogen[ P03363] interacts with 5 human  
partners: {Q9BX66;Q13618;P11831;Q13829;Q8WZ19}

10619 [Cluster 966]GO:0046777+P biological\_process [name] protein autophosphorylation [def] "The phosphorylation by a protein of one or more of its own amino acid residues, or residues on an identical protein." [ISBN

10620 Pathogen[ Q2Q067] interacts with 7 human  
partners: {P05198;P31749;Q7L9L4;O96017;Q13233;O15164;P21675}

10621 Pathogen[ P0C214] interacts with 8 human  
partners: {P21675;Q7L9L4;Q13233;O96017;P05198;O15164;P46020;P31749}

10622 Pathogen[ P03346] interacts with 10 human  
partners: {Q13263;O96017;Q7L9L4;P31749;Q13233;P21675;Q6ZN04;O14965;O15164;P05198}

10623 Pathogen[ Q85601] interacts with 10 human  
partners: {P31749;O96017;O15164;Q13263;O14965;P05198;P21675;Q7L9L4;Q13233;P51955}

10624 Pathogen[ P14079] interacts with 8 human  
partners: {O15164;P05198;Q7L9L4;P51955;Q13164;O14965;P46020;P21675}

10625 Pathogen[ P03383] interacts with 8 human  
partners: {Q9NYV4;Q13233;P31749;Q7L9L4;P05198;O14965;P21675;O96017}

10626 Pathogen[ P03410] interacts with 8 human

10627 partners:{P46020;P21675;P31749;Q7L9L4;Q13233;O14965;O96017;P05198}  
Pathogen[ P14075] interacts with 8 human

10628 partners:{P21675;P05198;P31749;O96017;O14965;Q7L9L4;Q13233;Q9NYV4}  
Pathogen[ POC206] interacts with 13 human

10629 partners:{P31749;Q13263;O96017;P51955;O15164;Q13233;P46020;P05198;Q6ZN04;Q7L9L4;O14965;Q99986;P21675}  
Pathogen[ P03363] interacts with 6 human

10630 partners:{P05198;O96017;P31749;Q7L9L4;P21675;Q13233}  
[Cluster 967]GO:0018095+P biological\_process [name] protein polyglutamylation  
[def] "The addition of one or more alpha-linked glutamyl units to the gamma carboxyl group of peptidyl-glutamic acid." [RESID

10631 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BYV8}  
10632 Pathogen[ POC214] interacts with 1 human partners:{Q9BYV8}  
10633 Pathogen[ P03346] interacts with 2 human partners:{Q8N841;Q9BYV8}  
10634 Pathogen[ Q85601] interacts with 1 human partners:{Q9BYV8}  
10635 Pathogen[ P14079] interacts with 3 human partners:{O95922;Q8N841;Q9BYV8}  
10636 Pathogen[ P03383] interacts with 1 human partners:{Q9BYV8}  
10637 Pathogen[ P03410] interacts with 3 human partners:{Q9BYV8;O95922;Q8N841}  
10638 Pathogen[ P14075] interacts with 1 human partners:{Q9BYV8}  
10639 Pathogen[ POC206] interacts with 3 human partners:{O95922;Q8N841;Q9BYV8}  
10640 Pathogen[ P03363] interacts with 3 human partners:{Q9BYV8;O95922;Q8N841}

10641 [Cluster 968]GO:0051290+P biological\_process [name] protein heterotetramerization  
[def] "The formation of a protein heterotetramer, a macromolecular structure consisting of four noncovalently associated subunits, of which not all are identical." [GOC

10642 Pathogen[ Q2Q067] interacts with 2 human partners:{P31350;P09972}  
10643 Pathogen[ POC214] interacts with 3 human partners:{P31350;P23921;P09972}  
10644 Pathogen[ P03346] interacts with 2 human partners:{P09972;P31350}  
10645 Pathogen[ Q85601] interacts with 2 human partners:{P31350;P09972}  
10646 Pathogen[ P14079] interacts with 3 human partners:{Q86YH6;P09972;P31350}  
10647 Pathogen[ P03383] interacts with 2 human partners:{P09972;P31350}  
10648 Pathogen[ P03410] interacts with 4 human partners:{P31350;P09972;P23921;Q86YH6}  
10649 Pathogen[ P14075] interacts with 2 human partners:{P31350;P09972}  
10650 Pathogen[ POC206] interacts with 2 human partners:{P09972;P31350}  
10651 Pathogen[ P03363] interacts with 1 human partners:{P09972}

10652 [Cluster 969]GO:0071888+P biological\_process [name] macrophage apoptosis [def] "The process of apoptosis in a macrophage." [CL

10653 Pathogen[ Q2Q067] interacts with 1 human partners:{Q14653}  
10654 Pathogen[ POC214] interacts with 1 human partners:{Q14653}  
10655 Pathogen[ P03346] interacts with 1 human partners:{Q14653}  
10656 Pathogen[ Q85601] interacts with 1 human partners:{Q14653}  
10657 Pathogen[ P14079] interacts with 1 human partners:{Q14653}  
10658 Pathogen[ P03383] interacts with 1 human partners:{Q14653}  
10659 Pathogen[ P03410] interacts with 1 human partners:{Q14653}  
10660 Pathogen[ P14075] interacts with 1 human partners:{Q14653}  
10661 Pathogen[ POC206] interacts with 1 human partners:{Q14653}  
10662 Pathogen[ P03363] interacts with 1 human partners:{Q14653}

10663 [Cluster 970]GO:0003203+P biological\_process [name] endocardial cushion morphogenesis  
[def] "The process in which the anatomical structure of the endocardial cushion is generated and organized. The endocardial cushion is a specialized region of mesenchymal cells that will give rise to the heart septa and valves." [GOC

10664 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9NQ87;Q9Y5J3}  
10665 Pathogen[ POC214] interacts with 2 human partners:{Q9Y5J3;Q9NQ87}  
10666 Pathogen[ P03346] interacts with 2 human partners:{Q9Y5J3;Q9NQ87}  
10667 Pathogen[ Q85601] interacts with 2 human partners:{Q9NQ87;Q9Y5J3}  
10668 Pathogen[ P14079] interacts with 2 human partners:{Q9Y5J3;Q9NQ87}  
10669 Pathogen[ P03383] interacts with 1 human partners:{Q9NQ87}  
10670 Pathogen[ P03410] interacts with 2 human partners:{Q9Y5J3;Q9NQ87}  
10671 Pathogen[ P14075] interacts with 1 human partners:{Q9NQ87}  
10672 Pathogen[ POC206] interacts with 2 human partners:{Q9NQ87;Q9Y5J3}  
10673 Pathogen[ P03363] interacts with 2 human partners:{Q9Y5J3;Q9NQ87}

10674 [Cluster 971]GO:0021675+P biological\_process [name] nerve development [def] "The process whose specific outcome is the progression of a nerve over time, from its formation to the mature structure." [GO\_REF

10675 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BXM0}  
10676 Pathogen[ POC214] interacts with 1 human partners:{Q9BXM0}  
10677 Pathogen[ P03346] interacts with 2 human partners:{P50219;Q9BXM0}  
10678 Pathogen[ Q85601] interacts with 1 human partners:{Q9BXM0}  
10679 Pathogen[ P14079] interacts with 1 human partners:{Q9BXM0}  
10680 Pathogen[ P03383] interacts with 1 human partners:{Q9BXM0}  
10681 Pathogen[ P03410] interacts with 1 human partners:{Q9BXM0}  
10682 Pathogen[ P14075] interacts with 1 human partners:{Q9BXM0}  
10683 Pathogen[ POC206] interacts with 1 human partners:{Q9BXM0}  
10684 Pathogen[ P03363] interacts with 2 human partners:{Q9BXM0;P50219}

10685 [Cluster 972]GO:0043010+P biological\_process [name] camera-type eye development  
[def] "The process whose specific outcome is the progression of the camera-type eye over time, from its formation to the mature structure. The camera-type eye is an organ of

sight that receives light through an aperture and focuses it through a lens, projecting it on a photoreceptor field." [GOC

10686 Pathogen[ Q2Q067] interacts with 14 human partners: {Q13562;Q15293;P13349;P05813;Q9ULV5;P02511;P55347;P12755;Q13233;O75030;P07315;P58304;Q7Z6M4;P02489}

10687 Pathogen[ P0C214] interacts with 12 human partners: {P07315;P55347;P02489;P02511;P13349;P05813;O75030;Q7Z6M4;Q13233;P12755;Q9ULV5;Q15293}

10688 Pathogen[ P03346] interacts with 20 human partners: {Q9HD90;P02489;P13349;Q68CZ1;P58304;O75030;P02511;Q13233;Q7Z6M4;P07315;P55347;P05813;Q9P2D1;Q15293;Q9ULV5;Q13562;Q13394;O95343;Q9UIW0;Q9Y586}

10689 Pathogen[ Q85601] interacts with 15 human partners: {P02489;P07315;Q7Z6M4;Q9ULV5;Q15293;Q9P2D1;P13349;O75030;P12755;Q13562;P02511;P58304;P55347;Q13233;P05813}

10690 Pathogen[ P14079] interacts with 21 human partners: {Q15293;P05813;P12755;P13349;P55347;P02511;Q9Y586;Q68CZ1;P58304;Q13394;P02489;I3L1E1;P53673;Q9P2D1;P54826;Q15042;Q7Z6M4;P07315;O75030;Q9ULV5;P43320}

10691 Pathogen[ P03383] interacts with 8 human partners: {Q13233;P02511;O75030;P55347;Q9ULV5;Q7Z6M4;P05813;P07315}

10692 Pathogen[ P03410] interacts with 20 human partners: {P43320;Q13394;Q15293;P07315;P12755;O75030;Q9Y586;Q13233;I3L1E1;P02489;Q9P2D1;P02511;P13349;P05813;P54826;P55347;Q9ULV5;Q68CZ1;Q15042;Q7Z6M4}

10693 Pathogen[ P14075] interacts with 10 human partners: {P53673;O75030;P05813;P55347;Q9ULV5;P02511;Q13233;P07315;P54826;Q7Z6M4}

10694 Pathogen[ P0C206] interacts with 20 human partners: {Q7Z6M4;O75030;I3L1E1;Q9P2D1;Q13394;P53673;Q9Y586;Q13233;P07315;P12755;P05813;Q9ULV5;P13349;Q15293;Q13562;P02511;P54826;P02489;P58304;P55347}

10695 Pathogen[ P03363] interacts with 12 human partners: {Q9UIW0;P58304;P55347;P13349;Q15293;O75030;Q9ULV5;P07315;P02489;O95343;Q13233;P05813}

10696 [Cluster 973]GO:0000085+P biological\_process [name] G2 phase of mitotic cell cycle [def] "G2 phase occurring as part of the mitotic cell cycle. G2 phase is the interval between the completion of DNA synthesis and the beginning of DNA segregation (mitosis in a mitotic cell cycle). A mitotic cell cycle is one which canonically comprises four successive phases called G1, S, G2, and M and includes replication of the genome and the subsequent segregation of chromosomes into daughter cells." [GOC

10697 Pathogen[ Q2Q067] interacts with 7 human partners: {P49454;Q01094;Q9NYZ3;O00716;Q99543;P52292;P24941}

10698 Pathogen[ P0C214] interacts with 7 human partners: {O00716;Q01094;P24941;Q9NYZ3;P52292;Q99543;P49454}

10699 Pathogen[ P03346] interacts with 8 human partners: {Q99543;P24941;O00409;Q01094;Q9NYZ3;P52292;O00716;P49454}

10700 Pathogen[ Q85601] interacts with 7 human partners: {Q99543;P49454;Q9NYZ3;P52292;P24941;O00716;Q01094}

10701 Pathogen[ P14079] interacts with 6 human partners: {Q9NYZ3;Q99543;O00716;P49454;Q01094;P52292}

10702 Pathogen[ P03383] interacts with 7 human partners: {P49454;O00716;Q01094;P52292;P24941;Q9NYZ3;Q99543}

10703 Pathogen[ P03410] interacts with 7 human partners: {Q9NYZ3;P49454;O00716;P24941;Q01094;Q99543;P52292}

10704 Pathogen[ P14075] interacts with 7 human partners: {P52292;P24941;Q99543;O00716;Q01094;Q9NYZ3;P49454}

10705 Pathogen[ P0C206] interacts with 7 human partners: {P49454;O00716;Q99543;Q01094;Q9NYZ3;P24941;P52292}

10706 Pathogen[ P03363] interacts with 8 human partners: {P49454;Q99543;P24941;O00409;Q01094;Q9NYZ3;O00716;P52292}

10707 [Cluster 974]GO:1900246+P

10708 Pathogen[ Q2Q067] interacts with 1 human partners: {Q7Z2W4}

10709 Pathogen[ P0C214] interacts with 1 human partners: {Q7Z2W4}

10710 Pathogen[ P03346] interacts with 1 human partners: {Q7Z2W4}

10711 Pathogen[ Q85601] interacts with 1 human partners: {Q7Z2W4}

10712 Pathogen[ P14079] interacts with 2 human partners: {Q7Z2W4;Q96C10}

10713 Pathogen[ P03383] interacts with 1 human partners: {Q7Z2W4}

10714 Pathogen[ P03410] interacts with 2 human partners: {Q7Z2W4;Q96C10}

10715 Pathogen[ P14075] interacts with 1 human partners: {Q7Z2W4}

10716 Pathogen[ P0C206] interacts with 2 human partners: {Q96C10;Q7Z2W4}

10717 Pathogen[ P03363] interacts with 2 human partners: {Q8IY21;Q7Z2W4}

10718 [Cluster 975]GO:0042993+P biological\_process [name] positive regulation of transcription factor import into nucleus [def] "Any process that activates or increases the frequency, rate or extent of the movement of a transcription factor from the cytoplasm to the nucleus." [GOC

10719 Pathogen[ Q2Q067] interacts with 2 human partners: {Q9NPF5;P84022}

10720 Pathogen[ P0C214] interacts with 3 human partners: {P84022;Q86WV6;Q9NPF5}

10721 Pathogen[ P03346] interacts with 2 human partners: {P84022;Q9NPF5}

10722 Pathogen[ Q85601] interacts with 3 human partners: {Q86WV6;P84022;Q9NPF5}

10723 Pathogen[ P14079] interacts with 3 human partners: {Q7Z434;Q9NPF5;Q86WV6}

10724 Pathogen[ P03383] interacts with 2 human partners:{P84022;Q9NPF5}  
10725 Pathogen[ P03410] interacts with 4 human partners:{P84022;Q9NPF5;Q7Z434;Q86WV6}  
10726 Pathogen[ P14075] interacts with 2 human partners:{Q9NPF5;P84022}  
10727 Pathogen[ P0C206] interacts with 3 human partners:{P84022;Q9NPF5;Q86WV6}  
10728 Pathogen[ P03363] interacts with 2 human partners:{Q9NPF5;P84022}  
10729 [Cluster 976]GO:0009409+P biological\_process [name] response to cold [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a cold stimulus, a temperature stimulus below the optimal temperature for that organism." [GOC  
10730 Pathogen[ Q2Q067] interacts with 4 human partners:{P01100;P10827;Q14790;P16989}  
10731 Pathogen[ P0C214] interacts with 4 human partners:{P16989;P01100;Q14011;Q14790}  
10732 Pathogen[ P03346] interacts with 5 human partners:{P10827;Q14011;P16989;Q14790;P01100}  
10733 Pathogen[ Q85601] interacts with 4 human partners:{Q14790;P01100;P10827;P16989}  
10734 Pathogen[ P14079] interacts with 8 human partners:{P20396;P00403;P10827;Q14790;P16989;Q14011;P01100;Q8WXI4}  
10735 Pathogen[ P03383] interacts with 2 human partners:{P16989;P01100}  
10736 Pathogen[ P03410] interacts with 6 human partners:{P16989;P01100;Q8WXI4;Q14011;P00403;P20396}  
10737 Pathogen[ P14075] interacts with 2 human partners:{P16989;P01100}  
10738 Pathogen[ P0C206] interacts with 7 human partners:{Q8WXI4;Q14011;P16989;P01100;Q14790;P20396;P10827}  
10739 Pathogen[ P03363] interacts with 3 human partners:{Q14011;P16989;P01100}  
10740 [Cluster 977]GO:0060340+P biological\_process [name] positive regulation of type I interferon-mediated signaling pathway [def] "Any process that increases the rate, frequency or extent of a type I interferon-mediated signaling pathway. A type I interferon-mediated signaling pathway is the series of molecular events generated as a consequence of a type I interferon binding to a cell surface receptor." [GOC  
10741 Pathogen[ Q2Q067] interacts with 2 human partners:{Q13158;Q86WI3}  
10742 Pathogen[ P0C214] interacts with 2 human partners:{Q13158;Q86WI3}  
10743 Pathogen[ P03346] interacts with 2 human partners:{Q13158;Q86WI3}  
10744 Pathogen[ Q85601] interacts with 2 human partners:{Q13158;Q86WI3}  
10745 Pathogen[ P14079] interacts with 3 human partners:{Q7Z434;Q13158;Q86WI3}  
10746 Pathogen[ P03383] interacts with 2 human partners:{Q13158;Q86WI3}  
10747 Pathogen[ P03410] interacts with 3 human partners:{Q7Z434;Q13158;Q86WI3}  
10748 Pathogen[ P14075] interacts with 2 human partners:{Q86WI3;Q13158}  
10749 Pathogen[ P0C206] interacts with 2 human partners:{Q86WI3;Q13158}  
10750 Pathogen[ P03363] interacts with 2 human partners:{Q13158;Q86WI3}  
10751 [Cluster 978]GO:0045595+P biological\_process [name] regulation of cell differentiation [def] "Any process that modulates the frequency, rate or extent of cell differentiation, the process in which relatively unspecialized cells acquire specialized structural and functional features." [GOC  
10752 Pathogen[ Q2Q067] interacts with 5 human partners:{P30153;Q9UL49;P67775;P20265;Q13490}  
10753 Pathogen[ P0C214] interacts with 4 human partners:{Q13490;P30153;P20265;P67775}  
10754 Pathogen[ P03346] interacts with 10 human partners:{A6NJT0;P67775;O43316;P20265;P30153;Q9UL49;O95096;Q92481;Q13490;Q9H9S0}  
10755 Pathogen[ Q85601] interacts with 5 human partners:{O43316;Q13490;P30153;P67775;P20265}  
10756 Pathogen[ P14079] interacts with 4 human partners:{P20265;Q9UL49;P30153;Q13490}  
10757 Pathogen[ P03383] interacts with 5 human partners:{Q9UL49;Q13490;P30153;P67775;P20265}  
10758 Pathogen[ P03410] interacts with 5 human partners:{Q9UL49;Q13490;P30153;P20265;P67775}  
10759 Pathogen[ P14075] interacts with 5 human partners:{P20265;Q13490;Q9UL49;P67775;P30153}  
10760 Pathogen[ P0C206] interacts with 7 human partners:{P30153;Q9UL49;P67775;P20265;Q9H9S0;O43316;Q13490}  
10761 Pathogen[ P03363] interacts with 8 human partners:{Q13490;O43316;A6NJT0;P20265;P30153;Q9H9S0;P67775;Q9UL49}  
10762 [Cluster 979]GO:0043616+P biological\_process [name] keratinocyte proliferation [def] "The multiplication or reproduction of keratinocytes, resulting in the expansion of a cell population. Keratinocytes are epidermal cells which synthesize keratin and undergo a characteristic change as they move upward from the basal layers of the epidermis to the cornified (horny) layer of the skin." [CL  
10763 Pathogen[ Q2Q067] interacts with 2 human partners:{P35908;O14896}  
10764 Pathogen[ P0C214] interacts with 2 human partners:{P35908;O14896}  
10765 Pathogen[ P03346] interacts with 2 human partners:{P35908;O14896}  
10766 Pathogen[ Q85601] interacts with 2 human partners:{O14896;P35908}  
10767 Pathogen[ P14079] interacts with 2 human partners:{P35908;O14896}  
10768 Pathogen[ P03383] interacts with 2 human partners:{O14896;P35908}  
10769 Pathogen[ P03410] interacts with 2 human partners:{O14896;P35908}  
10770 Pathogen[ P14075] interacts with 2 human partners:{P35908;O14896}  
10771 Pathogen[ P0C206] interacts with 2 human partners:{O14896;P35908}  
10772 Pathogen[ P03363] interacts with 3 human partners:{O14896;P19883;P35908}  
10773 [Cluster 980]GO:0043547+P biological\_process [name] positive regulation of GTPase



activity [def] "Any process that activates or increases the activity of a GTPase." [GOC]

10774 Pathogen[ Q2Q067] interacts with 8 human partners:{Q9BTW9;P41220;Q12982;Q9Y2B5;Q5TB30;Q8N336;P43487;Q15276}

10775 Pathogen[ P0C214] interacts with 12 human partners:{Q9Y2B5;P41220;Q5TB30;P43487;Q9BTW9;P31150;P46060;P52565;Q8N336;Q12982;Q6GYQ0;P98171}

10776 Pathogen[ P03346] interacts with 13 human partners:{P98171;P43487;Q8N336;Q96FS4;Q5TB30;P52565;P46060;P31150;Q6GYQ0;P41220;Q12982;Q15276;Q9Y2B5}

10777 Pathogen[ Q85601] interacts with 12 human partners:{P31150;P46060;P41220;P43487;Q12982;Q9BTW9;Q5TB30;Q9NP61;P52565;Q8N6H7;Q9Y2B5;Q8N6T3}

10778 Pathogen[ P14079] interacts with 13 human partners:{P52565;Q9BTW9;Q12982;P31150;P98171;Q8N336;Q15276;P46060;P41220;Q9H5N1;Q9Y2B5;Q5TB30;Q15042}

10779 Pathogen[ P03383] interacts with 4 human partners:{P41220;Q9Y2B5;P43487;Q15276}

10780 Pathogen[ P03410] interacts with 15 human partners:{Q5TB30;P98171;P41220;Q9Y2B5;Q8N336;Q9BTW9;Q9NP61;P43487;Q12982;Q9H5N1;P31150;P52565;Q15042;P46060;Q15276}

10781 Pathogen[ P14075] interacts with 5 human partners:{P43487;Q8N336;P41220;Q9Y2B5;Q15276}

10782 Pathogen[ P0C206] interacts with 16 human partners:{Q12982;Q8N6T3;Q9BTW9;P52565;Q9Y2B5;Q9NP61;P46060;P43487;P31150;P98171;Q9H5N1;Q8N336;Q5TB30;P41220;Q8N6H7;Q15276}

10783 Pathogen[ P03363] interacts with 15 human partners:{Q9Y2B5;P46060;P52565;P31150;P98171;Q8N336;P43487;Q9BTW9;P41220;Q5TB30;Q96NW4;Q7Z5H3;Q12982;Q96FS4;Q15276}

10784 [Cluster 981]GO:0034341+P biological\_process [name] response to interferon-gamma [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an interferon-gamma stimulus. Interferon-gamma is also known as type II interferon." [GOC]

10785 Pathogen[ Q2Q067] interacts with 9 human partners:{Q9Y5A7;P30793;Q99966;Q13137;Q16719;P23497;Q96EY1;O15205;P33076}

10786 Pathogen[ P0C214] interacts with 9 human partners:{P33076;Q99966;Q13137;P30793;O15205;P23497;Q9Y5A7;Q96EY1;Q16719}

10787 Pathogen[ P03346] interacts with 8 human partners:{Q99966;P33076;Q13137;Q9Y5A7;O15205;Q16719;P23497;Q96EY1}

10788 Pathogen[ Q85601] interacts with 8 human partners:{P33076;Q16719;Q99966;P30793;Q13137;O15205;Q9Y5A7;Q96EY1}

10789 Pathogen[ P14079] interacts with 10 human partners:{P13164;P33076;Q99966;P30793;P23497;Q16719;O15205;Q13137;Q9Y5A7;Q96EY1}

10790 Pathogen[ P03383] interacts with 7 human partners:{P33076;Q16719;Q13137;Q9Y5A7;P23497;O15205;Q96EY1}

10791 Pathogen[ P03410] interacts with 8 human partners:{Q13137;O15205;Q16719;Q9Y5A7;P30793;P33076;Q96EY1;Q99966}

10792 Pathogen[ P14075] interacts with 8 human partners:{Q16719;P23497;P33076;Q13137;Q9Y5A7;P30793;O15205;Q96EY1}

10793 Pathogen[ P0C206] interacts with 8 human partners:{Q13137;O15205;P30793;P33076;Q16719;Q99966;Q96EY1;Q9Y5A7}

10794 Pathogen[ P03363] interacts with 6 human partners:{O15205;P23497;P33076;Q96EY1;Q13137;Q9Y5A7}

10795 [Cluster 982]GO:0031623+P biological\_process [name] receptor internalization [def] "A receptor-mediated endocytosis process that results in the movement of receptors from the plasma membrane to the inside of the cell. The process begins when cell surface receptors are monoubiquitinated following ligand-induced activation. Receptors are subsequently taken up into endocytic vesicles from where they are either targeted to the lysosome or vacuole for degradation or recycled back to the plasma membrane." [GOC]

10796 Pathogen[ Q2Q067] interacts with 2 human partners:{Q00610;P50570}

10797 Pathogen[ P0C214] interacts with 2 human partners:{P62993;P50570}

10798 Pathogen[ P03346] interacts with 4 human partners:{P50570;P62993;Q13492;Q00610}

10799 Pathogen[ Q85601] interacts with 3 human partners:{Q00610;P62993;P50570}

10800 Pathogen[ P14079] interacts with 5 human partners:{Q13492;Q00610;O60895;P50570;P62993}

10801 Pathogen[ P03383] interacts with 1 human partners:{Q00610}

10802 Pathogen[ P03410] interacts with 6 human partners:{Q00610;O60896;O60895;P50570;Q13492;P62993}

10803 Pathogen[ P14075] interacts with 1 human partners:{Q00610}

10804 Pathogen[ P0C206] interacts with 3 human partners:{Q00610;P62993;P50570}

10805 Pathogen[ P03363] interacts with 2 human partners:{P50570;Q00610}

10806 [Cluster 983]GO:0019730+P biological\_process [name] antimicrobial humoral response [def] "An immune response against microbes mediated through a body fluid. Examples of this process are seen in the antimicrobial humoral response of *Drosophila melanogaster* and *Mus musculus*." [GOC]

10807 Pathogen[ Q2Q067] interacts with 1 human partners:{P20749}

10808 Pathogen[ P0C214] interacts with 1 human partners:{P20749}

10809 Pathogen[ P03346] interacts with 1 human partners:{P20749}

10810 Pathogen[ Q85601] interacts with 1 human partners:{P20749}

10811 Pathogen[ P14079] interacts with 1 human partners:{P20749}

10812 Pathogen[ P03383] interacts with 1 human partners:{P20749}

10813 Pathogen[ P03410] interacts with 1 human partners:{P20749}

10814 Pathogen[ P14075] interacts with 1 human partners:{P20749}

10815 Pathogen[ P0C206] interacts with 1 human partners:{P20749}

10816 Pathogen[ P03363] interacts with 1 human partners:{P20749}

10817 [Cluster 984]GO:0050663+P biological\_process [name] cytokine secretion [def] "The regulated release of cytokines from a cell or group of cells. Cytokines are any of a group of proteins that function to control the survival, growth and differentiation of tissues and cells, and which have autocrine and paracrine activity." [GOC

10818 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13094}

10819 Pathogen[ P0C214] interacts with 1 human partners:{Q13094}

10820 Pathogen[ P03346] interacts with 1 human partners:{Q13094}

10821 Pathogen[ Q85601] interacts with 1 human partners:{Q13094}

10822 Pathogen[ P14079] interacts with 1 human partners:{Q13094}

10823 Pathogen[ P03383] interacts with 1 human partners:{Q13094}

10824 Pathogen[ P03410] interacts with 1 human partners:{Q13094}

10825 Pathogen[ P14075] interacts with 1 human partners:{Q13094}

10826 Pathogen[ P0C206] interacts with 1 human partners:{Q13094}

10827 Pathogen[ P03363] interacts with 1 human partners:{Q13094}

10828 [Cluster 985]GO:0002455+P biological\_process [name] humoral immune response mediated by circulating immunoglobulin [def] "An immune response dependent upon secreted immunoglobulin. An example of this process is found in *Mus musculus*." [GO\_REF

10829 Pathogen[ Q2Q067] interacts with 2 human partners:{P20749;Q9UQ84}

10830 Pathogen[ P0C214] interacts with 2 human partners:{P20749;Q9UQ84}

10831 Pathogen[ P03346] interacts with 2 human partners:{P20749;Q9UQ84}

10832 Pathogen[ Q85601] interacts with 2 human partners:{Q9UQ84;P20749}

10833 Pathogen[ P14079] interacts with 2 human partners:{P20749;Q9UQ84}

10834 Pathogen[ P03383] interacts with 1 human partners:{P20749}

10835 Pathogen[ P03410] interacts with 2 human partners:{P20749;Q9UQ84}

10836 Pathogen[ P14075] interacts with 1 human partners:{P20749}

10837 Pathogen[ P0C206] interacts with 2 human partners:{Q9UQ84;P20749}

10838 Pathogen[ P03363] interacts with 1 human partners:{P20749}

10839 [Cluster 986]GO:0045657+P biological\_process [name] positive regulation of monocyte differentiation [def] "Any process that activates or increases the frequency, rate or extent of monocyte differentiation." [GOC

10840 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9NSA3;Q9UKV3}

10841 Pathogen[ P0C214] interacts with 3 human partners:{Q9NSA3;P05412;Q9UKV3}

10842 Pathogen[ P03346] interacts with 3 human partners:{P05412;Q9UKV3;Q9NSA3}

10843 Pathogen[ Q85601] interacts with 3 human partners:{Q9UKV3;P05412;Q9NSA3}

10844 Pathogen[ P14079] interacts with 3 human partners:{Q9H295;Q9UKV3;P05412}

10845 Pathogen[ P03383] interacts with 3 human partners:{Q9NSA3;Q9UKV3;P05412}

10846 Pathogen[ P03410] interacts with 3 human partners:{Q9NSA3;Q9UKV3;P05412}

10847 Pathogen[ P14075] interacts with 3 human partners:{P05412;Q9UKV3;Q9NSA3}

10848 Pathogen[ P0C206] interacts with 3 human partners:{Q9NSA3;P05412;Q9UKV3}

10849 Pathogen[ P03363] interacts with 3 human partners:{Q9UKV3;Q9NSA3;P05412}

10850 [Cluster 987]GO:0034393+P biological\_process [name] positive regulation of smooth muscle cell apoptosis [def] "Any process that activates or increases the frequency, rate, or extent of smooth muscle cell apoptosis." [GOC

10851 Pathogen[ Q2Q067] interacts with 2 human partners:{Q96IL0;P42771}

10852 Pathogen[ P0C214] interacts with 2 human partners:{Q96IL0;P42771}

10853 Pathogen[ P03346] interacts with 2 human partners:{Q96IL0;P42771}

10854 Pathogen[ Q85601] interacts with 2 human partners:{Q96IL0;P42771}

10855 Pathogen[ P14079] interacts with 3 human partners:{Q96IL0;P29459;P42771}

10856 Pathogen[ P03383] interacts with 1 human partners:{P42771}

10857 Pathogen[ P03410] interacts with 3 human partners:{P42771;Q96IL0;P29459}

10858 Pathogen[ P14075] interacts with 1 human partners:{P42771}

10859 Pathogen[ P0C206] interacts with 2 human partners:{P42771;Q96IL0}

10860 Pathogen[ P03363] interacts with 1 human partners:{P42771}

10861 [Cluster 988]GO:0030500+P biological\_process [name] regulation of bone mineralization [def] "Any process that modulates the frequency, rate or extent of bone mineralization." [GOC

10862 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NUQ3}

10863 Pathogen[ P0C214] interacts with 1 human partners:{Q9NUQ3}

10864 Pathogen[ P03346] interacts with 3 human partners:{Q96BA8;Q9NUQ3;Q14596}

10865 Pathogen[ Q85601] interacts with 2 human partners:{Q14596;Q9NUQ3}

10866 Pathogen[ P14079] interacts with 2 human partners:{Q14596;Q9NUQ3}

10867 Pathogen[ P03383] interacts with 1 human partners:{Q9NUQ3}

10868 Pathogen[ P03410] interacts with 2 human partners:{Q14596;Q9NUQ3}

10869 Pathogen[ P14075] interacts with 1 human partners:{Q9NUQ3}

10870 Pathogen[ P0C206] interacts with 2 human partners:{Q9NUQ3;Q14596}

10871 Pathogen[ P03363] interacts with 1 human partners:{Q9NUQ3}

10872 [Cluster 989]GO:0030538+P biological\_process [name] embryonic genitalia morphogenesis

[def] "The process, occurring in the embryo, by which the anatomical structures of the genitalia are generated and organized." [GOC

10873 Pathogen[ Q2Q067] interacts with 1 human partners:{P36402}

10874 Pathogen[ P0C214] interacts with 1 human partners:{P36402}

10875 Pathogen[ P03346] interacts with 1 human partners:{P36402}

10876 Pathogen[ Q85601] interacts with 1 human partners:{P36402}

10877 Pathogen[ P14079] interacts with 1 human partners:{P36402}

10878 Pathogen[ P03383] interacts with 1 human partners:{P36402}

10879 Pathogen[ P03410] interacts with 1 human partners:{P36402}

10880 Pathogen[ P14075] interacts with 1 human partners:{P36402}

10881 Pathogen[ P0C206] interacts with 1 human partners:{P36402}

10882 Pathogen[ P03363] interacts with 1 human partners:{P36402}

10883 [Cluster 990]GO:0051798+P biological\_process [name] positive regulation of hair follicle development [def] "Any process that activates or increases the frequency, rate or extent of hair follicle development." [GOC

10884 Pathogen[ Q2Q067] interacts with 2 human partners:{Q04695;Q15628}

10885 Pathogen[ P0C214] interacts with 2 human partners:{Q15628;Q04695}

10886 Pathogen[ P03346] interacts with 2 human partners:{Q04695;Q15628}

10887 Pathogen[ Q85601] interacts with 2 human partners:{Q04695;Q15628}

10888 Pathogen[ P14079] interacts with 2 human partners:{Q04695;Q15628}

10889 Pathogen[ P03383] interacts with 2 human partners:{Q04695;Q15628}

10890 Pathogen[ P03410] interacts with 2 human partners:{Q15628;Q04695}

10891 Pathogen[ P14075] interacts with 2 human partners:{Q04695;Q15628}

10892 Pathogen[ P0C206] interacts with 2 human partners:{Q15628;Q04695}

10893 Pathogen[ P03363] interacts with 3 human partners:{P19883;Q15628;Q04695}

10894 [Cluster 991]GO:0046602+P biological\_process [name] regulation of mitotic centrosome separation [def] "Any process that modulates the frequency, rate or extent of the separation of duplicated centrosome components at the beginning of mitosis." [GOC

10895 Pathogen[ Q2Q067] interacts with 1 human partners:{O14757}

10896 Pathogen[ P0C214] interacts with 1 human partners:{O14757}

10897 Pathogen[ P03346] interacts with 1 human partners:{O14757}

10898 Pathogen[ Q85601] interacts with 2 human partners:{O14757;P51955}

10899 Pathogen[ P14079] interacts with 1 human partners:{P51955}

10900 Pathogen[ P03383] interacts with 1 human partners:{O14757}

10901 Pathogen[ P03410] interacts with 1 human partners:{O14757}

10902 Pathogen[ P14075] interacts with 1 human partners:{O14757}

10903 Pathogen[ P0C206] interacts with 1 human partners:{P51955}

10904 Pathogen[ P03363] interacts with 1 human partners:{O14757}

10905 [Cluster 992]GO:0048808+P biological\_process [name] male genitalia morphogenesis [def] "The process in which the anatomical structures of male genitalia are generated and organized." [GOC

10906 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BX26}

10907 Pathogen[ P0C214] interacts with 1 human partners:{Q9BX26}

10908 Pathogen[ P03346] interacts with 1 human partners:{Q9BX26}

10909 Pathogen[ Q85601] interacts with 1 human partners:{Q9BX26}

10910 Pathogen[ P14079] interacts with 1 human partners:{Q9BX26}

10911 Pathogen[ P03383] interacts with 1 human partners:{Q9BX26}

10912 Pathogen[ P03410] interacts with 1 human partners:{Q9BX26}

10913 Pathogen[ P14075] interacts with 1 human partners:{Q9BX26}

10914 Pathogen[ P0C206] interacts with 1 human partners:{Q9BX26}

10915 Pathogen[ P03363] interacts with 1 human partners:{Q9BX26}

10916 [Cluster 993]GO:0016572+P biological\_process [name] histone phosphorylation [def] "The modification of histones by addition of phosphate groups." [GOC

10917 Pathogen[ Q2Q067] interacts with 3 human partners:{P14635;O75582;P24941}

10918 Pathogen[ P0C214] interacts with 3 human partners:{P14635;P24941;O75582}

10919 Pathogen[ P03346] interacts with 3 human partners:{P24941;P14635;O75582}

10920 Pathogen[ Q85601] interacts with 3 human partners:{P14635;O75582;P24941}

10921 Pathogen[ P14079] interacts with 2 human partners:{O75582;P14635}

10922 Pathogen[ P03383] interacts with 3 human partners:{O75582;P14635;P24941}

10923 Pathogen[ P03410] interacts with 3 human partners:{O75582;P14635;P24941}

10924 Pathogen[ P14075] interacts with 3 human partners:{P24941;P14635;O75582}

10925 Pathogen[ P0C206] interacts with 4 human partners:{O75582;P14635;P24941;Q9UIG0}

10926 Pathogen[ P03363] interacts with 1 human partners:{P24941}

10927 [Cluster 994]GO:0006935+P biological\_process [name] chemotaxis [def] "The directed movement of a motile cell or organism, or the directed growth of a cell guided by a specific chemical concentration gradient. Movement may be towards a higher concentration (positive chemotaxis) or towards a lower concentration (negative chemotaxis)." [ISBN

10928 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9BW27;Q12904;P15407}

10929 Pathogen[ P0C214] interacts with 4 human partners:{Q12904;P15407;Q9BW27;P05546}

10930 Pathogen[ P03346] interacts with 3 human partners:{Q9BW27;Q12904;P15407}

10931 Pathogen[ Q85601] interacts with 2 human partners:{P15407;Q9BW27}

10932 Pathogen[ P14079] interacts with 7 human partners:{Q9BW27;Q96DZ9;P60022;O15263;Q8TAZ6;P15407;Q12904}

10933 Pathogen[ P03383] interacts with 3 human partners:{Q12904;Q9BW27;P15407}

10934 Pathogen[ P03410] interacts with 11 human partners:{Q9BW27;O14960;Q96DZ9;Q8TAZ6;Q9HBL7;P60022;P33241;Q12904;P15407;Q9NRJ3;O152

63}

10935 Pathogen[ P14075] interacts with 3 human partners:{Q9BW27;Q12904;P15407}

10936 Pathogen[ P0C206] interacts with 4 human partners:{P15407;Q9BW27;Q12904;Q8TAZ6}

10937 Pathogen[ P03363] interacts with 2 human partners:{P15407;Q9BW27}

10938 [Cluster 995]GO:0010875+P biological\_process [name] positive regulation of cholesterol efflux [def] "Any process that increases the frequency, rate or extent of cholesterol efflux. Cholesterol efflux is the directed movement of cholesterol, cholest-5-en-3-beta-ol, out of a cell or organelle." [GOC

10939 Pathogen[ Q2Q067] interacts with 2 human partners:{P55055;P25963}

10940 Pathogen[ P0C214] interacts with 1 human partners:{P25963}

10941 Pathogen[ P03346] interacts with 2 human partners:{P25963;P55055}

10942 Pathogen[ Q85601] interacts with 2 human partners:{P55055;P25963}

10943 Pathogen[ P14079] interacts with 1 human partners:{P55055}

10944 Pathogen[ P03383] interacts with 1 human partners:{P25963}

10945 Pathogen[ P03410] interacts with 1 human partners:{P25963}

10946 Pathogen[ P14075] interacts with 1 human partners:{P25963}

10947 Pathogen[ P0C206] interacts with 2 human partners:{P25963;P55055}

10948 Pathogen[ P03363] interacts with 1 human partners:{P25963}

10949 [Cluster 996]GO:0000087+P biological\_process [name] M phase of mitotic cell cycle [def] "M phase occurring as part of the mitotic cell cycle. M phase is the part of the cell cycle during which nuclear division takes place. A mitotic cell cycle is one which canonically comprises four successive phases called G1, S, G2, and M and includes replication of the genome and the subsequent segregation of chromosomes into daughter cells." [GOC

10950 Pathogen[ Q2Q067] interacts with 74 human partners:{P49454;Q96EE3;Q96H22;P52948;Q71F23;Q14008;Q12769;Q9Y266;Q15398;Q99547;P49792;Q13352;Q7Z460;P55735;Q6IPU0;Q6P1K2;Q9HBM1;Q8WYP5;Q9H3R5;Q5FBB7;P49450;Q13257;Q8N2Z9;Q03188;Q9NXR1;Q53HL2;Q43684;Q8NBT2;Q9P258;Q8NFH4;P30304;Q9NQS7;Q43264;Q14980;P30307;Q92674;Q9BW27;Q96BT3;Q9BZD4;Q9NSP4;Q12834;P36873;P50748;Q96Q89;Q99550;Q9H410;Q8NFH3;Q02241;Q60216;Q00139;Q75122;Q8NG31;Q9Y6D9;Q9UKT4;P57740;Q96BD8;Q9H900;Q96IY1;Q8WUM0;Q14683;Q8WVM7;P30305;Q9BU64;P42677;Q95229;Q14777;Q562F6;Q9BPU9;Q8N3U4;Q15691;Q9H081;Q8WVK7;Q15392;Q96EA4}

10951 Pathogen[ P0C214] interacts with 76 human partners:{Q9H081;Q43684;P55735;Q13257;P30307;Q96BT3;Q14008;Q53HL2;Q43264;Q02241;Q96EA4;P57740;Q8WYP5;P50748;Q95229;Q96EE3;P49792;Q6IPU0;Q8NBT2;Q00139;Q15691;Q99547;Q6P1K2;P46060;Q562F6;Q9Y266;P49450;Q8N2Z9;Q03188;Q75122;Q92674;Q96Q89;Q14980;Q9BW27;Q96BD8;Q9HBM1;Q9BPU9;Q9P258;Q15398;Q12834;Q13352;Q9BQQ3;Q99550;Q8NFH3;P30305;Q9H410;Q15392;Q9H3R5;P42677;Q14683;Q8N3U4;Q8WVM7;Q8NG31;Q7Z460;P36873;Q9H900;Q5FBB7;Q9NQS7;Q9NSP4;Q71F23;Q8NFH4;Q8N0S6;Q9NXR1;Q96IY1;P49454;P30304;Q60216;Q9BZD4;Q8WUM0;Q9UKT4;Q9Y6D9;P52948;Q9BU64;Q12769;Q8WVK7;Q14777}

10952 Pathogen[ P03346] interacts with 80 human partners:{Q9Y6D9;Q8N2Z9;P55735;Q5FBB7;Q8NFH4;Q8WUM0;Q95229;Q7L2Z9;Q12769;Q15392;Q43684;Q96EE3;Q8N3U4;Q9BS16;Q9BPU9;Q92674;Q00139;P57740;Q15691;Q8WYP5;P30304;Q43264;Q9NXR1;Q53HL2;Q96IY1;Q9P258;Q8NFH3;Q12834;P30305;Q9Y266;Q14777;Q9BW27;Q14980;Q96EA4;Q15398;P46060;Q14683;P36873;Q14008;Q9NQS7;Q96Q89;Q9UKT4;Q562F6;Q9H081;Q8NBT2;Q9HBM1;Q9H410;P30622;Q75122;Q9BU64;Q9BQQ3;Q02241;Q8WVM7;Q03188;P42677;P50748;P49450;Q99550;Q99547;Q7Z460;Q6IPU0;Q8NG31;Q8N0S6;Q9H3R5;Q9NSP4;Q96H22;Q6P1K2;Q60216;Q96BD8;Q9BZD4;Q96BT3;Q71F23;Q13352;Q8WVK7;Q13257;P30307;P49454;Q9H900;P49792;P52948}

10953 Pathogen[ Q85601] interacts with 75 human partners:{Q8NBT2;P49454;Q95229;Q02241;Q8NFH4;Q8NFH3;Q03188;Q9H900;Q15398;Q14008;P46060;Q96EE3;Q9BQQ3;Q99547;Q9NQS7;Q12769;Q9H081;Q9P258;Q96BT3;Q9UKT4;P57740;Q8WYP5;P30622;Q8WUM0;Q71F23;Q43264;Q53HL2;Q8NG31;Q15392;P30304;Q9H3R5;Q96EA4;Q60216;Q8WVM7;Q12834;Q13257;Q92674;Q75122;P30305;Q9Y266;Q96Q89;Q9BW27;Q13352;P30307;Q562F6;Q9BU64;Q14683;Q9BZD4;P36873;Q15691;Q96BD8;Q9Y6D9;P55735;P52948;P49450;Q99550;Q8N2Z9;Q9H410;Q14980;Q8N3U4;P42677;P50748;Q8WVK7;Q96IY1;Q9BPU9;Q7Z460;P49792;Q9NXR1;Q6P1K2;Q9GZM8;Q14777;Q43684;Q00139;Q9HBM1;Q5FBB7}

10954 Pathogen[ P14079] interacts with 78 human partners:{Q15691;Q96IY1;Q03188;Q9BW27;P30307;Q9UKT4;Q7Z460;Q96BT3;Q9HBM1;Q8N0S6;P36873;P57740;Q95229;Q8NBT2;Q02241;Q9BZD4;Q15392;Q60216;Q9Y266;P46060;Q8NG31;Q6IPU0;Q9H900;P30304;Q5FBB7;Q9H410;Q8N3U4;Q9NSP4;Q99661;Q71F23;Q8WUM0;Q8WYP5;Q96Q89;Q00139;Q8N2Z9;Q13257;Q96EA4;Q562F6;Q8WVK7;P49450;Q96H22;Q8NFH3;Q96EE3;Q9BPU9;Q9P258;Q43264;Q9BQQ3;Q9H3R5;Q9GZM8;Q53HL2;P42677;Q8NFH4;Q9NQS7;Q92674;P55735;Q9UQE7;P49454;P30305;Q9BU64;Q9NXR1;P50748;Q12769;Q95235;Q99547;Q96BD8;Q75122;Q14683;Q13352;Q7L2Z9;Q14777;Q43684;Q99550;P30622;Q6P1K2;P52948;Q9H081;Q14008;Q15398}

10955 Pathogen[ P03383] interacts with 64 human partners:{Q14683;Q96EE3;Q13257;P30307;Q8WUM0;Q9NQS7;Q03188;P49454;Q99547;P49792;Q8N2Z9;Q8NFH4;Q7Z460;Q6IPU0;Q96BD8;Q02241;Q8NBT2;Q8N3U4;Q14008;Q9H900;Q15691;P55735;Q43264;Q5FBB7;P52948;Q9P258;P57740;Q8WYP5;P30304;P42677;Q9UKT4;Q96H22;Q13352;Q96EA4;Q60216;Q96BT3;Q12769;P36873;Q71F23;Q12834;Q53HL2;Q95229;Q96H22;Q9BU64;Q14980;Q43684;Q9BZD4;Q8WVK7;Q96Q89;Q562F6;Q9HBM1;Q9Y266;Q9H410;Q9H081;Q96IY1;Q8NG31;Q6P1K2;Q14777;Q92674;Q9H3R5;Q8NFH3;Q9Y6D9;P50748;Q8WVM7}

10956 Pathogen[ P03410] interacts with 80 human partners:{Q03188;Q9UKT4;Q7Z460;Q15392;Q9BW27;Q96Q89;Q9NSP4;Q9H3R5;Q8N0S6;Q43684;Q96H22;P30622;Q9BQQ3;Q00139;Q9NXR1;Q15398;Q9H410;Q8NG31;Q9GZM8;Q53HL2;Q8NFH4;Q6IPU0;Q9UQE7;Q96BT3;P52948;Q14008;P50748;Q562F6;Q92674;Q60216;Q43264;P49454;Q96EA4;Q96IY1;Q15691;Q9BPU9;P30304;Q6P1K2;Q99550;Q71F23;Q14683;Q9BZD4;Q8WVK7;P36873;Q9HBM1;Q96EE3;Q8N3

U4;Q12834;Q8NBT2;Q99547;P49450;Q5FBB7;Q8WUM0;Q8WVM7;Q9H900;Q9Y266;Q95229;Q9H081;Q96B  
D8;P57740;P55735;P30305;Q12769;Q9P258;Q8WYP5;O75122;Q8NFB3;P30307;Q13352;P46060;Q7L2  
Z9;O14980;O14777;P49792;Q02241;Q9BU64;Q8N2Z9;Q13257;Q9NQS7;P42677}

10957 Pathogen[ P14075] interacts with 66 human  
partners: {Q6IPU0;P42677;Q9Y266;Q14683;Q9Y6D9;Q02241;Q9H081;Q562F6;Q9UKT4;Q9NQS7;Q8WV  
M7;Q92674;Q8WVK7;P57740;Q8WYP5;Q7Z460;P49792;Q96IY1;Q13257;Q96H22;O43684;Q96BD8;O147  
77;P55735;P30305;Q95229;Q8N2Z9;Q9H3R5;O14980;Q9BW27;Q9BU64;Q96EA4;O00139;Q9P258;Q156  
91;Q96EE3;Q96BT3;Q9BPU9;Q5FBB7;P30304;Q9H410;Q8NFB3;Q9H900;Q53HL2;Q99547;P50748;Q127  
69;Q9HBM1;Q6P1K2;Q13352;Q14008;Q8WUM0;O43264;Q03188;Q8NG31;P49454;Q96Q89;P30307;Q71F  
23;Q8NFB4;O60216;Q8NBT2;Q9BZD4;Q12834;P52948;Q8N3U4}

10958 Pathogen[ P0C206] interacts with 79 human  
partners: {Q9BPU9;Q96EE3;Q9HBM1;O60216;Q8WYP5;Q6IPU0;Q9NSP4;Q14008;Q96Q89;Q9H900;P303  
07;Q9Y6D9;Q7L2Z9;Q15691;Q9H081;O14777;Q8N0S6;Q9BZD4;P55735;Q99550;Q9H410;P30305;P577  
40;P49454;P30622;Q13257;Q9BU64;Q02241;Q9GZM8;O75122;Q92674;Q8WUM0;Q9UKT4;Q99547;P460  
60;Q6P1K2;P49792;Q8NBT2;Q96BD8;Q9H3R5;Q9UQE7;P49450;Q14683;Q96IY1;Q96BT3;Q13352;Q5FB  
B7;Q53HL2;O15392;O00139;Q9P258;Q96H22;Q8NFB4;P30304;Q562F6;Q8N3U4;Q9NXR1;Q96EA4;Q8N2  
Z9;Q12769;O43684;Q9BQQ3;Q7Z460;Q9NQS7;Q8NFB3;P36873;P50748;Q15398;Q71F23;O43264;Q8WV  
M7;Q8NG31;Q9Y266;Q12834;Q8WVK7;Q9BW27;Q03188;P42677;O95229}

10959 Pathogen[ P03363] interacts with 69 human  
partners: {Q96EA4;Q9BZD4;P46060;P49454;Q96IY1;Q6P1K2;P42677;Q9Y6D9;Q9H081;P36873;Q926  
74;Q8NFB4;Q95229;Q96BD8;Q8WYP5;Q8NFB3;Q9Y266;Q99547;O14980;Q12769;Q15691;O43264;Q995  
50;Q8NBT2;Q15398;Q02241;Q8N2Z9;Q9P258;Q53HL2;Q8WVK7;Q9H410;P50748;Q5FBB7;Q9H900;P303  
04;Q8WUM0;P30622;O43684;P49450;Q9NQS7;Q9BPU9;Q9NSP4;Q8WVM7;Q9HBM1;Q7Z460;Q9UKT4;P497  
92;Q03188;Q8NG31;Q13257;Q71F23;P57740;Q96BT3;Q9H3R5;P52948;Q8N3U4;O14777;Q96Q89;Q128  
34;Q14008;Q562F6;Q9NXR1;O00139;P30307;Q13352;P55735;Q14683;Q9BW27;O60216}

10960 [Cluster 997]GO:0031056+P biological\_process [name] regulation of histone  
modification [def] "Any process that modulates the frequency, rate or extent of the  
covalent alteration of a histone." [GOC

10961 Pathogen[ Q2Q067] interacts with 2 human partners: {P63146;P50750}

10962 Pathogen[ P0C214] interacts with 2 human partners: {P50750;P63146}

10963 Pathogen[ P03346] interacts with 2 human partners: {P63146;P50750}

10964 Pathogen[ Q85601] interacts with 2 human partners: {P63146;P50750}

10965 Pathogen[ P14079] interacts with 2 human partners: {P63146;P50750}

10966 Pathogen[ P03383] interacts with 2 human partners: {P50750;P63146}

10967 Pathogen[ P03410] interacts with 2 human partners: {P50750;P63146}

10968 Pathogen[ P14075] interacts with 2 human partners: {P50750;P63146}

10969 Pathogen[ P0C206] interacts with 2 human partners: {P50750;P63146}

10970 Pathogen[ P03363] interacts with 2 human partners: {P63146;P50750}

10971 [Cluster 998]GO:0007492+P biological\_process [name] endoderm development [def] "The  
process whose specific outcome is the progression of the endoderm over time, from its  
formation to the mature structure. The endoderm is the innermost germ layer that  
develops into the gastrointestinal tract, the lungs and associated tissues." [GOC

10972 Pathogen[ Q2Q067] interacts with 7 human  
partners: {Q13485;P35680;O43248;P84022;Q15796;P55771;Q12830}

10973 Pathogen[ P0C214] interacts with 7 human  
partners: {P32243;P84022;O43248;Q13485;Q15796;Q12830;P55771}

10974 Pathogen[ P03346] interacts with 10 human  
partners: {Q12830;Q9H2W2;Q15796;Q9UBC0;P84022;P35680;Q13485;P32243;O43248;P55771}

10975 Pathogen[ Q85601] interacts with 8 human  
partners: {O43248;Q12830;P55771;P35680;P32243;P84022;Q13485;Q15796}

10976 Pathogen[ P14079] interacts with 4 human partners: {P35680;P55771;Q12830;P32243}

10977 Pathogen[ P03383] interacts with 6 human  
partners: {Q12830;Q13485;P32243;P55771;P84022;Q15796}

10978 Pathogen[ P03410] interacts with 7 human  
partners: {P84022;Q12830;Q13485;P55771;P32243;P35680;Q15796}

10979 Pathogen[ P14075] interacts with 6 human  
partners: {Q15796;Q13485;Q12830;P55771;P84022;P32243}

10980 Pathogen[ P0C206] interacts with 9 human  
partners: {P84022;Q9UBC0;P55771;Q15796;O43248;P32243;P35680;Q13485;Q12830}

10981 Pathogen[ P03363] interacts with 9 human  
partners: {Q9UBC0;Q12830;P55771;Q9H2W2;P32243;O43248;Q15796;P84022;Q13485}

10982 [Cluster 999]GO:0022010+P biological\_process [name] central nervous system  
myelination [def] "The process in which neuronal axons and dendrites become coated with  
a segmented lipid-rich sheath (myelin) to enable faster and more energetically efficient  
conduction of electrical impulses. The sheath is formed by the cell membranes of  
oligodendrocytes in the central nervous system. Adjacent myelin segments are separated  
by a non-myelinated stretch of axon called a node of Ranvier." [GO\_REF

10983 Pathogen[ Q2Q067] interacts with 1 human partners: {P47928}

10984 Pathogen[ P0C214] interacts with 1 human partners: {P47928}

10985 Pathogen[ P03346] interacts with 2 human partners: {P45381;P47928}

10986 Pathogen[ Q85601] interacts with 1 human partners: {P47928}

10987 Pathogen[ P14079] interacts with 3 human partners: {P45381;P47928;Q9Y2G1}

10988 Pathogen[ P03383] interacts with 1 human partners: {P47928}

10989 Pathogen[ P03410] interacts with 3 human partners: {P45381;Q9Y2G1;P47928}

10990 Pathogen[ P14075] interacts with 1 human partners: {P47928}

10991 Pathogen[ P0C206] interacts with 2 human partners: {P45381;P47928}

10992 Pathogen[ P03363] interacts with 2 human partners:{P47928;Q9C056}  
10993 [Cluster 1000]GO:0007264+P biological\_process [name] small GTPase mediated signal  
transduction [def] "Any series of molecular signals in which a small monomeric GTPase  
relays one or more of the signals." [GOC  
10994 Pathogen[ Q2Q067] interacts with 9 human  
partners:{P62826;O43255;Q53G26;P27348;P31946;P60953;P63000;P61586;Q96EY1}  
10995 Pathogen[ P0C214] interacts with 13 human  
partners:{P63000;P27348;P31150;P61586;P60953;P52565;Q53G26;P62826;P31946;O43255;P981  
71;Q96EY1;P36404}  
10996 Pathogen[ P03346] interacts with 21 human  
partners:{P98171;O43255;P27348;Q12802;P60953;P52565;P62826;P20340;P31150;P36404;Q53G  
26;O00522;Q3YEC7;Q969Q5;Q5VV41;P36405;P31946;Q9H8V3;P63000;Q96EY1;P61586}  
10997 Pathogen[ Q85601] interacts with 12 human  
partners:{P31946;P36405;P31150;Q53G26;P62826;P63000;P52565;P27348;P61586;P60953;O432  
55;Q96EY1}  
10998 Pathogen[ P14079] interacts with 16 human  
partners:{P52565;P31150;P47224;P98171;Q59EK9;P10911;Q12802;P36405;P31946;P27348;P615  
86;Q9H8V3;P62826;Q96EY1;O00522;Q5VV41}  
10999 Pathogen[ P03383] interacts with 9 human  
partners:{P31946;P60953;P63000;P62826;P61586;O43255;Q96EY1;Q53G26;P27348}  
11000 Pathogen[ P03410] interacts with 17 human  
partners:{Q53G26;P63000;Q59EK9;P98171;P27348;P36405;P62826;P61586;Q5VV41;P47224;O005  
22;P60953;Q9H8V3;P31150;P52565;Q96EY1;P31946}  
11001 Pathogen[ P14075] interacts with 9 human  
partners:{P60953;Q53G26;O43255;P62826;P61586;P27348;P63000;P31946;Q96EY1}  
11002 Pathogen[ P0C206] interacts with 17 human  
partners:{O43255;P52565;Q53G26;P62826;P27348;P47224;P61586;P31946;P63000;Q9H8V3;P609  
53;P31150;P98171;P36405;Q59EK9;Q96EY1;O00522}  
11003 Pathogen[ P03363] interacts with 17 human  
partners:{P27348;P52565;Q5VV41;P31150;Q969Q5;P31946;P98171;P63000;Q53G26;P10911;O005  
22;Q7Z5H3;O43255;Q96EY1;P62826;P60953;Q3YEC7}  
11004 [Cluster 1001]GO:0010212+P biological\_process [name] response to ionizing radiation  
[def] "Any process that results in a change in state or activity of a cell or an  
organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as  
a result of a ionizing radiation stimulus. Ionizing radiation is radiation with  
sufficient energy to remove electrons from atoms and may arise from spontaneous decay of  
unstable isotopes, resulting in alpha and beta particles and gamma rays. Ionizing  
radiation also includes X-rays." [PMID  
11005 Pathogen[ Q2Q067] interacts with 22 human  
partners:{Q96SD1;Q99502;Q6ZW49;Q7Z2Z1;Q13625;Q9NWV8;Q96AH0;Q92547;Q9BQ15;Q9H9Q4;Q9UB  
C3;Q99504;Q13426;Q9NRY2;Q6UWZ7;P12956;Q68E01;O76064;P02533;Q6PJJG6;Q9NXR7;Q96RL1}  
11006 Pathogen[ P0C214] interacts with 24 human  
partners:{Q9H9Q4;P02533;Q6PJJG6;Q13625;Q96SD1;Q9NWV8;Q96AH0;Q68E01;Q6ZW49;Q92698;Q134  
26;Q6UWZ7;Q99504;Q96RL1;Q8WTP8;Q9NXR7;Q92547;Q8IYW5;O76064;Q7Z2Z1;P12956;Q9NRY2;Q9BQ  
15;Q99502}  
11007 Pathogen[ P03346] interacts with 27 human  
partners:{O76064;P12956;Q6PJJG6;Q7Z2Z1;Q96SD1;Q6PCD5;Q13426;Q96AH0;Q96RL1;Q9UBC3;Q995  
02;Q92698;Q68E01;Q9NXR7;P02533;Q9BQ15;Q13625;Q8IYW5;Q9NWV8;Q92547;Q9H9Q4;Q96PY6;Q9NR  
Y2;Q99504;Q6UWZ7;Q6ZW49;Q96M02}  
11008 Pathogen[ Q85601] interacts with 27 human  
partners:{Q96M02;Q6PJJG6;P02533;Q7Z2Z1;Q96RL1;Q96AH0;Q92547;Q96PY6;Q68E01;Q13426;Q6PC  
D5;Q99504;Q9BQ15;Q92698;Q9NRY2;O76064;Q96SD1;Q99502;Q6UWZ7;Q9NWV8;Q13625;Q8IYW5;Q6ZW  
49;Q9NXR7;Q9H9Q4;P12956;Q9UBC3}  
11009 Pathogen[ P14079] interacts with 27 human  
partners:{Q9BQ15;Q99502;Q9H9Q4;Q6UWZ7;Q92698;Q13625;Q96AH0;P02533;Q6PJJG6;Q96M02;P129  
56;Q9NXR7;Q9UBC3;P48681;Q9NWV8;Q6ZW49;Q68E01;Q96RL1;Q92547;Q96SD1;Q99504;Q9NRY2;Q7Z2  
Z1;Q13426;Q8WZA0;P49917;Q8WTP8}  
11010 Pathogen[ P03383] interacts with 19 human  
partners:{Q99504;Q6PJJG6;P02533;Q68E01;Q96RL1;Q9H9Q4;Q6ZW49;Q13625;Q7Z2Z1;Q13426;Q9NR  
Y2;Q9NWV8;Q96PY6;Q9BQ15;Q92547;Q96AH0;Q9NXR7;Q6UWZ7;P12956}  
11011 Pathogen[ P03410] interacts with 25 human  
partners:{Q96RL1;Q96M02;Q8WTP8;P02533;Q9NXR7;Q9BQ15;Q92698;Q9NWV8;Q99502;Q8WZA0;Q6PJ  
G6;Q96SD1;P12956;Q96AH0;Q6UWZ7;Q99504;Q7Z2Z1;Q13426;Q92547;Q9UBC3;Q13625;Q68E01;Q6ZW  
49;Q9NRY2;Q9H9Q4}  
11012 Pathogen[ P14075] interacts with 20 human  
partners:{Q99504;P12956;Q7Z2Z1;Q68E01;Q9NWV8;Q6ZW49;Q9BQ15;Q9NXR7;Q6PJJG6;Q6UWZ7;Q9H9  
Q4;Q96AH0;Q13625;Q13426;Q96PY6;Q99502;Q92547;Q96RL1;P02533;Q9NRY2}  
11013 Pathogen[ P0C206] interacts with 28 human  
partners:{Q96M02;Q6PCD5;Q68E01;Q99504;Q9BQ15;Q8IYW5;Q6ZW49;Q13625;Q96PY6;Q96SD1;Q9NR  
Y2;Q6PJJG6;P49917;Q9H9Q4;Q13426;Q9NWV8;Q99502;Q7Z2Z1;Q6UWZ7;Q9UBC3;Q96RL1;Q92547;O760  
64;P12956;P02533;Q92698;Q96AH0;Q9NXR7}  
11014 Pathogen[ P03363] interacts with 23 human  
partners:{Q92547;P12956;P02533;Q7Z2Z1;Q96RL1;Q6UWZ7;Q96AH0;Q13625;Q96M02;Q8IYW5;Q134  
26;Q9BQ15;Q9NWV8;Q6PCD5;Q99504;Q9H9Q4;Q9NXR7;Q6PJJG6;Q6ZW49;Q68E01;Q9UBC3;Q9NRY2;Q926  
98}  
11015 [Cluster 1002]GO:0007020+P biological\_process [name] microtubule nucleation [def]

"The 'de novo' formation of a microtubule, in which tubulin heterodimers form metastable oligomeric aggregates, some of which go on to support formation of a complete microtubule. Microtubule nucleation usually occurs from a specific site within a cell."  
[ISBN

- 11016 Pathogen[ Q2Q067] interacts with 12 human  
partners:{Q96RT8;Q7Z460;Q9HC77;Q9NXR1;Q9P270;Q96S59;Q96RT7;Q9BSJ2;O75122;Q6QNY1;Q9UGJ1;Q96CW5}
- 11017 Pathogen[ POC214] interacts with 12 human  
partners:{Q9BSJ2;Q9HC77;Q96CW5;Q96RT7;Q9UGJ1;O75122;Q96S59;Q96RT8;Q7Z460;Q6QNY1;Q9NXR1;Q9P270}
- 11018 Pathogen[ P03346] interacts with 12 human  
partners:{Q96RT8;Q9HC77;Q9NXR1;Q96CW5;Q96S59;Q6QNY1;Q9UGJ1;O75122;Q9BSJ2;Q7Z460;Q96RT7;Q9P270}
- 11019 Pathogen[ Q85601] interacts with 12 human  
partners:{Q96RT8;Q9HC77;Q96CW5;O75122;Q9BSJ2;Q96S59;Q9UGJ1;Q7Z460;Q9NXR1;Q9P270;Q6QNY1;Q96RT7}
- 11020 Pathogen[ P14079] interacts with 12 human  
partners:{Q7Z460;Q9UGJ1;Q96RT8;Q96RT7;Q9BSJ2;Q9P270;Q9NXR1;Q96S59;O75122;Q6QNY1;Q9HC77;Q96CW5}
- 11021 Pathogen[ P03383] interacts with 7 human  
partners:{Q7Z460;Q9BSJ2;Q96CW5;Q9HC77;Q96S59;Q9P270;Q6QNY1}
- 11022 Pathogen[ P03410] interacts with 12 human  
partners:{Q7Z460;Q6QNY1;Q9NXR1;Q9HC77;Q96S59;Q9BSJ2;Q96RT8;Q96CW5;Q9P270;Q96RT7;O75122;Q9UGJ1}
- 11023 Pathogen[ P14075] interacts with 7 human  
partners:{Q7Z460;Q9HC77;Q96S59;Q6QNY1;Q9P270;Q9BSJ2;Q96CW5}
- 11024 Pathogen[ POC206] interacts with 11 human  
partners:{Q9HC77;Q96RT7;Q96CW5;Q6QNY1;Q9UGJ1;O75122;Q9NXR1;Q9P270;Q96S59;Q7Z460;Q9BSJ2}
- 11025 Pathogen[ P03363] interacts with 11 human  
partners:{Q9HC77;Q96RT8;Q7Z460;Q6QNY1;Q9P270;Q96RT7;Q9UGJ1;Q96S59;Q9NXR1;Q9BSJ2;Q96CW5}
- 11026 [Cluster 1003]GO:0031065+P biological\_process [name] positive regulation of histone deacetylation [def] "Any process that activates or increases the frequency, rate or extent of the removal of acetyl groups from histones." [GOC
- 11027 Pathogen[ Q2Q067] interacts with 5 human  
partners:{P36956;Q13363;Q8WYK2;O75376;Q14693}
- 11028 Pathogen[ POC214] interacts with 3 human partners:{Q13363;O75376;Q14693}
- 11029 Pathogen[ P03346] interacts with 5 human  
partners:{P36956;O75376;Q13363;Q8WYK2;Q14693}
- 11030 Pathogen[ Q85601] interacts with 5 human  
partners:{Q13363;P36956;O75376;Q8WYK2;Q14693}
- 11031 Pathogen[ P14079] interacts with 4 human partners:{Q8WYK2;Q14693;O75376;P36956}
- 11032 Pathogen[ P03383] interacts with 3 human partners:{O75376;Q13363;Q14693}
- 11033 Pathogen[ P03410] interacts with 4 human partners:{P36956;Q8WYK2;O75376;Q14693}
- 11034 Pathogen[ P14075] interacts with 3 human partners:{O75376;Q13363;Q14693}
- 11035 Pathogen[ POC206] interacts with 5 human  
partners:{Q8WYK2;P36956;O75376;Q13363;Q14693}
- 11036 Pathogen[ P03363] interacts with 3 human partners:{O75376;Q8WYK2;Q13363}
- 11037 [Cluster 1004]GO:0006672+P biological\_process [name] ceramide metabolic process [def] "The chemical reactions and pathways involving ceramides, any N-acylated sphingoid." [ISBN
- 11038 Pathogen[ Q2Q067] interacts with 3 human partners:{P30153;Q92636;P67775}
- 11039 Pathogen[ POC214] interacts with 3 human partners:{P30153;P67775;Q92636}
- 11040 Pathogen[ P03346] interacts with 3 human partners:{P67775;P30153;Q92636}
- 11041 Pathogen[ Q85601] interacts with 3 human partners:{Q92636;P30153;P67775}
- 11042 Pathogen[ P14079] interacts with 4 human partners:{Q92636;Q13510;P30153;Q8N138}
- 11043 Pathogen[ P03383] interacts with 2 human partners:{P30153;P67775}
- 11044 Pathogen[ P03410] interacts with 6 human  
partners:{Q8N138;Q13510;Q92636;P30153;Q9UBY8;P67775}
- 11045 Pathogen[ P14075] interacts with 3 human partners:{Q13510;P67775;P30153}
- 11046 Pathogen[ POC206] interacts with 3 human partners:{P30153;P67775;Q92636}
- 11047 Pathogen[ P03363] interacts with 3 human partners:{Q92636;P30153;P67775}
- 11048 [Cluster 1005]GO:0035050+P biological\_process [name] embryonic heart tube development [def] "The process whose specific outcome is the progression of the embryonic heart tube over time, from its formation to the mature structure. The heart tube forms as the heart rudiment from the heart field." [GOC
- 11049 Pathogen[ Q2Q067] interacts with 1 human partners:{O96004}
- 11050 Pathogen[ POC214] interacts with 1 human partners:{O96004}
- 11051 Pathogen[ P03346] interacts with 3 human partners:{Q9HBG6;O96004;P35713}
- 11052 Pathogen[ Q85601] interacts with 1 human partners:{O96004}
- 11053 Pathogen[ P14079] interacts with 1 human partners:{O96004}
- 11054 Pathogen[ P03383] interacts with 1 human partners:{O96004}
- 11055 Pathogen[ P03410] interacts with 2 human partners:{O96004;Q9HBG6}
- 11056 Pathogen[ P14075] interacts with 1 human partners:{O96004}
- 11057 Pathogen[ POC206] interacts with 1 human partners:{O96004}

11058 Pathogen[ P03363] interacts with 2 human partners:{Q9HBG6;O96004}  
11059 [Cluster 1006]GO:0042992+P biological\_process [name] negative regulation of transcription factor import into nucleus [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the movement of a transcription factor from the cytoplasm to the nucleus." [GOC  
11060 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UMX1}  
11061 Pathogen[ P0C214] interacts with 1 human partners:{Q9UMX1}  
11062 Pathogen[ P03346] interacts with 1 human partners:{Q9UMX1}  
11063 Pathogen[ Q85601] interacts with 1 human partners:{Q9UMX1}  
11064 Pathogen[ P14079] interacts with 1 human partners:{Q9UMX1}  
11065 Pathogen[ P03383] interacts with 1 human partners:{Q9UMX1}  
11066 Pathogen[ P03410] interacts with 1 human partners:{Q9UMX1}  
11067 Pathogen[ P14075] interacts with 1 human partners:{Q9UMX1}  
11068 Pathogen[ P0C206] interacts with 1 human partners:{Q9UMX1}  
11069 Pathogen[ P03363] interacts with 1 human partners:{Q9UMX1}  
11070 [Cluster 1007]GO:0035024+P biological\_process [name] negative regulation of Rho protein signal transduction [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of Rho protein signal transduction." [GOC  
11071 Pathogen[ Q2Q067] interacts with 5 human partners:{Q8N9R8;Q14678;Q13829;P41182;Q13618}  
11072 Pathogen[ P0C214] interacts with 6 human partners:{Q13829;Q14678;Q13618;Q8N9R8;Q8WZ19;P41182}  
11073 Pathogen[ P03346] interacts with 6 human partners:{Q8WZ19;Q14678;Q13618;Q13829;P41182;Q8N9R8}  
11074 Pathogen[ Q85601] interacts with 6 human partners:{Q8WZ19;Q8N9R8;Q14678;Q13618;P41182;Q13829}  
11075 Pathogen[ P14079] interacts with 5 human partners:{Q13618;P41182;Q8N9R8;Q13829;Q14678}  
11076 Pathogen[ P03383] interacts with 4 human partners:{Q14678;Q13618;Q13829;Q8N9R8}  
11077 Pathogen[ P03410] interacts with 6 human partners:{Q13829;Q8WZ19;Q13618;Q8N9R8;P41182;Q14678}  
11078 Pathogen[ P14075] interacts with 4 human partners:{Q13618;Q8N9R8;Q14678;Q13829}  
11079 Pathogen[ P0C206] interacts with 6 human partners:{Q13829;P41182;Q14678;Q8WZ19;Q13618;Q8N9R8}  
11080 Pathogen[ P03363] interacts with 5 human partners:{Q13618;Q13829;Q8N9R8;Q8WZ19;Q14678}  
11081 [Cluster 1008]GO:0022616+P biological\_process [name] DNA strand elongation [def] "The DNA metabolic process in which a DNA strand is synthesized by adding nucleotides to the 3' end of an existing DNA stand." [GOC  
11082 Pathogen[ Q2Q067] interacts with 1 human partners:{O14746}  
11083 Pathogen[ P0C214] interacts with 1 human partners:{O14746}  
11084 Pathogen[ P03346] interacts with 1 human partners:{O14746}  
11085 Pathogen[ Q85601] interacts with 1 human partners:{O14746}  
11086 Pathogen[ P14079] interacts with 1 human partners:{O14746}  
11087 Pathogen[ P03383] interacts with 1 human partners:{O14746}  
11088 Pathogen[ P03410] interacts with 1 human partners:{O14746}  
11089 Pathogen[ P14075] interacts with 1 human partners:{O14746}  
11090 Pathogen[ P0C206] interacts with 1 human partners:{O14746}  
11091 Pathogen[ P03363] interacts with 1 human partners:{O14746}  
11092 [Cluster 1009]GO:0051036+P biological\_process [name] regulation of endosome size [def] "Any process that modulates the volume of an endosome, a membrane-bounded organelle that carries materials newly ingested by endocytosis." [GOC  
11093 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9Y3E7}  
11094 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y3E7}  
11095 Pathogen[ P03346] interacts with 1 human partners:{Q9Y3E7}  
11096 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y3E7}  
11097 Pathogen[ P14079] interacts with 1 human partners:{Q9Y3E7}  
11098 Pathogen[ P03383] interacts with 1 human partners:{Q9Y3E7}  
11099 Pathogen[ P03410] interacts with 1 human partners:{Q9Y3E7}  
11100 Pathogen[ P14075] interacts with 1 human partners:{Q9Y3E7}  
11101 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y3E7}  
11102 Pathogen[ P03363] interacts with 1 human partners:{Q9Y3E7}  
11103 [Cluster 1010]GO:0072593+P biological\_process [name] reactive oxygen species metabolic process [def] "The chemical reactions and pathways involving a reactive oxygen species, any molecules or ions formed by the incomplete one-electron reduction of oxygen. They contribute to the microbicidal activity of phagocytes, regulation of signal transduction and gene expression, and the oxidative damage to biopolymers." [CHEBI  
11104 Pathogen[ Q2Q067] interacts with 6 human partners:{O75489;Q13794;Q9UII2;Q9P0J0;Q12983;Q9UI32}  
11105 Pathogen[ P0C214] interacts with 8 human partners:{P28331;Q9UI32;Q13794;Q9UII2;Q9P0J0;Q12983;O75489;P18054}  
11106 Pathogen[ P03346] interacts with 8 human partners:{O75489;P18054;Q12983;Q9UI32;Q9UII2;Q5TCZ1;Q9P0J0;Q13794}  
11107 Pathogen[ Q85601] interacts with 5 human partners:{Q9P0J0;Q9UII2;Q12983;Q9UI32;Q13794}  
11108 Pathogen[ P14079] interacts with 9 human



11109 partners:{043181;Q9UII2;Q9NX09;Q13794;Q9P0J0;Q12983;Q9UI32;075489;Q5TCZ1}  
Pathogen[ P03383] interacts with 5 human

11110 partners:{075489;Q12983;Q9UII2;Q13794;Q9P0J0}  
Pathogen[ P03410] interacts with 9 human

11111 partners:{Q12983;Q13794;Q9UII2;075489;043181;Q9UI32;Q5TCZ1;Q9P0J0;Q9NX09}  
Pathogen[ P14075] interacts with 5 human

11112 partners:{Q12983;Q9UII2;Q13794;075489;Q9P0J0}  
Pathogen[ P0C206] interacts with 7 human

11113 partners:{Q5TCZ1;Q12983;Q9P0J0;Q9UI32;075489;Q9UII2;Q13794}  
Pathogen[ P03363] interacts with 4 human partners:{Q13794;Q5TCZ1;Q9P0J0;Q9UI32}

11114 [Cluster 1011]GO:0006897+P biological\_process [name] endocytosis [def] "A vesicle-mediated transport process in which cells take up external materials or membrane constituents by the invagination of a small region of the plasma membrane to form a new membrane-bounded vesicle." [GOC

11115 Pathogen[ Q2Q067] interacts with 20 human  
partners:{094973;Q10567;P56377;043747;095782;Q96B97;000291;060784;Q8WXE9;Q96PC3;P61966;Q14677;P50570;Q99962;P63000;P09496;Q9P0V3;Q96ED9;Q13367;Q15276}

11116 Pathogen[ P0C214] interacts with 25 human  
partners:{P63000;Q9UII2;Q9P0V3;Q96ED9;Q9UM54;Q13367;Q9Y6Q2;Q9Y6I3;Q99962;Q10567;Q8IV I9;P56377;Q96PC3;060784;Q9BQI5;043747;094973;Q8WXE9;P61966;P09496;P50570;095782;000291;Q96B97;Q14677}

11117 Pathogen[ P03346] interacts with 36 human  
partners:{Q13596;P61966;095405;Q96B97;P50570;Q92622;Q9UKS6;Q8IVI9;043747;P56377;Q99962;Q96T51;095782;000291;P09496;060784;Q10567;Q9Y6Q2;Q8WXE9;060493;Q9P0V3;P42566;Q96PC3;Q13492;Q9UJ41;Q96ED9;Q13367;095219;060749;Q9Y6I3;Q9BQI5;094973;Q14677;P63000;075146;Q15276}

11118 Pathogen[ Q85601] interacts with 26 human  
partners:{Q13367;Q13596;P09496;P56377;Q99962;Q96T51;P63000;Q8WXE9;043747;Q9UJ41;Q10567;Q14677;Q9Y6Q2;P50570;Q8IVI9;Q96B97;094973;Q96PC3;Q9Y6I3;000291;Q9P0V3;Q9UM54;P61966;Q96ED9;060784;095782}

11119 Pathogen[ P14079] interacts with 42 human  
partners:{Q13492;P61966;000291;075146;Q6UX01;Q9Y6I3;060493;Q9UKS6;Q96ED9;Q14677;Q10567;Q15276;P42566;P56377;095405;Q96B97;Q9UJ41;Q9UM54;060784;Q9P0V3;Q9H5N1;P50570;Q8IV I9;095782;Q96T51;Q8NC96;Q15075;Q9BQI5;Q9NVZ3;060749;Q13596;094973;Q9NQ60;Q13367;Q8WX E9;043747;Q9UII2;Q96PC3;Q92622;P09496;Q99962;Q9Y6Q2}

11120 Pathogen[ P03383] interacts with 15 human  
partners:{P56377;Q8WXE9;Q10567;P63000;000291;043747;Q9BQI5;095782;Q96ED9;060784;Q13367;Q14677;Q9P0V3;094973;Q15276}

11121 Pathogen[ P03410] interacts with 44 human  
partners:{Q8NC96;P09496;000203;095782;Q96PC3;095405;Q9UJ41;Q9NQ60;P63000;Q13596;Q9Y6 I3;Q9NVZ3;Q0JRZ9;043747;060749;Q9P0V3;Q10567;Q8IVI9;P50570;000291;075146;Q8WXE9;Q9UM Z2;095219;Q9UM54;Q13492;Q14677;Q9UKS6;Q96ED9;Q9UII2;060784;Q9BQI5;Q96T51;Q96B97;Q99962;Q9H5N1;Q13367;P61966;P42566;094973;P56377;Q9Y6Q2;060493;Q15276}

11122 Pathogen[ P14075] interacts with 16 human  
partners:{Q9BQI5;Q9P0V3;P09496;094973;000291;Q8WXE9;095782;Q14677;043747;P63000;P56377;Q10567;Q13367;060784;Q96ED9;Q15276}

11123 Pathogen[ P0C206] interacts with 37 human  
partners:{Q9UM54;094973;000291;060784;Q9Y6Q2;Q8NC96;043747;Q10567;Q96B97;P61966;Q8WX E9;Q96T51;060493;Q99962;Q13596;P09496;Q96ED9;Q92622;060749;P63000;Q9UII2;095405;Q9Y6 I3;Q9BQI5;095782;Q14677;Q9UJ41;Q9H5N1;P42566;Q9P0V3;Q96PC3;Q8IVI9;Q13367;P50570;Q15276;Q9UKS6;P56377}

11124 Pathogen[ P03363] interacts with 30 human  
partners:{P36575;Q99962;Q96ED9;Q8IVI9;Q8WXE9;Q13367;Q9P0V3;043747;095219;Q96B97;060784;P50570;Q96RUC;P63000;060493;Q96T51;094973;060749;Q9UJ41;095405;Q92622;Q14677;095782;Q9UKS6;Q13596;075146;Q9BQI5;000291;Q15276;Q10567}

11125 [Cluster 1012]GO:0071228+P biological\_process [name] cellular response to tumor cell [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a stimulus from a tumor cell." [GOC

11126 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9H3M7}

11127 Pathogen[ P0C214] interacts with 1 human partners:{Q9H3M7}

11128 Pathogen[ P03346] interacts with 1 human partners:{Q9H3M7}

11129 Pathogen[ Q85601] interacts with 1 human partners:{Q9H3M7}

11130 Pathogen[ P14079] interacts with 1 human partners:{Q9H3M7}

11131 Pathogen[ P03383] interacts with 1 human partners:{Q9H3M7}

11132 Pathogen[ P03410] interacts with 1 human partners:{Q9H3M7}

11133 Pathogen[ P14075] interacts with 1 human partners:{Q9H3M7}

11134 Pathogen[ P0C206] interacts with 1 human partners:{Q9H3M7}

11135 Pathogen[ P03363] interacts with 1 human partners:{Q9H3M7}

11136 [Cluster 1013]GO:0033209+P biological\_process [name] tumor necrosis factor-mediated signaling pathway [def] "A series of molecular signals generated as a consequence of a tumor necrosis factor binding to a cell surface receptor." [GOC

11137 Pathogen[ Q2Q067] interacts with 9 human  
partners:{Q9BRA2;Q86VX2;Q12933;Q8WXC3;014862;Q13114;Q15628;P05783;P42224}

11138 Pathogen[ P0C214] interacts with 9 human  
partners:{P05783;Q15628;Q9BRA2;P42224;Q12933;Q8WXC3;Q13114;014862;Q86VX2}

11139 Pathogen[ P03346] interacts with 9 human partners: {P05783;Q9BRA2;Q9H305;Q86VX2;Q13114;Q8WXC3;P42224;Q15628;O14862}

11140 Pathogen[ Q85601] interacts with 9 human partners: {Q9BRA2;Q13114;P05783;Q12933;Q8WXC3;O14862;P42224;Q15628;Q86VX2}

11141 Pathogen[ P14079] interacts with 10 human partners: {Q8WXC3;Q9H305;Q86VX2;P05783;O14862;P42224;Q12933;Q9BRA2;Q15628;Q13114}

11142 Pathogen[ P03383] interacts with 8 human partners: {O14862;Q9BRA2;P05783;Q12933;Q8WXC3;Q15628;Q86VX2;Q13114}

11143 Pathogen[ P03410] interacts with 9 human partners: {Q9H305;O14862;Q9BRA2;Q86VX2;Q15628;Q12933;Q8WXC3;P05783;Q13114}

11144 Pathogen[ P14075] interacts with 8 human partners: {P05783;Q9BRA2;Q12933;O14862;Q8WXC3;Q13114;Q86VX2;Q15628}

11145 Pathogen[ P0C206] interacts with 10 human partners: {Q9H305;Q13114;O14862;Q12933;Q86VX2;P05783;Q15628;Q9BRA2;P42224;Q8WXC3}

11146 Pathogen[ P03363] interacts with 9 human partners: {P05783;Q86VX2;Q12933;Q9H305;Q8WXC3;Q9BRA2;O14862;Q15628;Q13114}

11147 [Cluster 1014]GO:0010587+P biological\_process [name] miRNA catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of miRNA, microRNA, a class of single-stranded RNA molecules of about 21-23 nucleotides in length, which regulates gene expression." [PMID]

11148 Pathogen[ Q2Q067] interacts with 3 human partners: {Q5TAX3;Q9H9Z2;Q6ZN17}

11149 Pathogen[ P0C214] interacts with 3 human partners: {Q6ZN17;Q9H9Z2;Q5TAX3}

11150 Pathogen[ P03346] interacts with 3 human partners: {Q5TAX3;Q9H9Z2;Q6ZN17}

11151 Pathogen[ Q85601] interacts with 3 human partners: {Q6ZN17;Q5TAX3;Q9H9Z2}

11152 Pathogen[ P14079] interacts with 3 human partners: {Q9H9Z2;Q5TAX3;Q6ZN17}

11153 Pathogen[ P03383] interacts with 3 human partners: {Q9H9Z2;Q6ZN17;Q5TAX3}

11154 Pathogen[ P03410] interacts with 3 human partners: {Q5TAX3;Q9H9Z2;Q6ZN17}

11155 Pathogen[ P14075] interacts with 3 human partners: {Q9H9Z2;Q5TAX3;Q6ZN17}

11156 Pathogen[ P0C206] interacts with 3 human partners: {Q6ZN17;Q9H9Z2;Q5TAX3}

11157 Pathogen[ P03363] interacts with 3 human partners: {Q6ZN17;Q9H9Z2;Q5TAX3}

11158 [Cluster 1015]GO:0009304+P biological\_process [name] tRNA transcription [def] "The synthesis of transfer RNA (tRNA) from a DNA template." [GOC]

11159 Pathogen[ Q2Q067] interacts with 2 human partners: {Q92994;Q12789}

11160 Pathogen[ P0C214] interacts with 2 human partners: {Q12789;Q92994}

11161 Pathogen[ P03346] interacts with 2 human partners: {Q92994;Q12789}

11162 Pathogen[ Q85601] interacts with 2 human partners: {Q92994;Q12789}

11163 Pathogen[ P14079] interacts with 2 human partners: {Q92994;Q12789}

11164 Pathogen[ P03383] interacts with 2 human partners: {Q92994;Q12789}

11165 Pathogen[ P03410] interacts with 2 human partners: {Q92994;Q12789}

11166 Pathogen[ P14075] interacts with 2 human partners: {Q12789;Q92994}

11167 Pathogen[ P0C206] interacts with 2 human partners: {Q92994;Q12789}

11168 Pathogen[ P03363] interacts with 1 human partners: {Q12789}

11169 [Cluster 1016]GO:0051775+P biological\_process [name] response to redox state [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a stimulus indicating redox state. Redox state refers to the balance of oxidized versus reduced forms of electron donors and acceptors in an organelle, cell or organ\_ plastoquinone, glutathione (GSH/GSSG), and nicotinamide nucleotides (NAD+/NADH and NADP+/NADPH) are among the most important." [GOC]

11170 Pathogen[ Q2Q067] interacts with 3 human partners: {Q8IXJ6;Q9UBF6;Q9BQE4}

11171 Pathogen[ P0C214] interacts with 3 human partners: {Q8IXJ6;Q9BQE4;Q9UBF6}

11172 Pathogen[ P03346] interacts with 3 human partners: {Q9NS18;Q8IXJ6;Q9UBF6}

11173 Pathogen[ Q85601] interacts with 3 human partners: {Q8IXJ6;Q9UBF6;Q9BQE4}

11174 Pathogen[ P14079] interacts with 3 human partners: {Q9BQE4;Q9UBF6;Q8IXJ6}

11175 Pathogen[ P03383] interacts with 2 human partners: {Q9BQE4;Q9UBF6}

11176 Pathogen[ P03410] interacts with 3 human partners: {Q8IXJ6;Q9BQE4;Q9UBF6}

11177 Pathogen[ P14075] interacts with 2 human partners: {Q9BQE4;Q9UBF6}

11178 Pathogen[ P0C206] interacts with 4 human partners: {Q9NS18;Q9UBF6;Q9BQE4;Q8IXJ6}

11179 Pathogen[ P03363] interacts with 1 human partners: {Q9UBF6}

11180 [Cluster 1017]GO:2000279+P biological\_process [name] negative regulation of DNA biosynthetic process [def] "Any process that stops, prevents or reduces the frequency, rate or extent of DNA biosynthetic process." [GOC]

11181 Pathogen[ Q2Q067] interacts with 2 human partners: {Q9UI56;Q15327}

11182 Pathogen[ P0C214] interacts with 2 human partners: {Q15327;Q9UI56}

11183 Pathogen[ P03346] interacts with 2 human partners: {Q15327;Q9UI56}

11184 Pathogen[ Q85601] interacts with 1 human partners: {Q15327}

11185 Pathogen[ P14079] interacts with 2 human partners: {Q9UI56;Q15327}

11186 Pathogen[ P03383] interacts with 2 human partners: {Q9UI56;Q15327}

11187 Pathogen[ P03410] interacts with 2 human partners: {Q9UI56;Q15327}

11188 Pathogen[ P14075] interacts with 2 human partners: {Q15327;Q9UI56}

11189 Pathogen[ P0C206] interacts with 2 human partners: {Q15327;Q9UI56}

11190 Pathogen[ P03363] interacts with 2 human partners: {Q15327;Q9UI56}

11191 [Cluster 1018]GO:0000730+P biological\_process [name] DNA recombinase assembly [def] "The aggregation, arrangement and bonding together of strand exchange proteins (recombinases) into higher order oligomers on single-stranded DNA." [PMID]

11192 Pathogen[ Q2Q067] interacts with 5 human

11193 partners:{P27694;P35244;Q06609;P15927;P43351}  
Pathogen[ P0C214] interacts with 5 human

11194 partners:{P43351;Q06609;P15927;P35244;P27694}  
Pathogen[ P03346] interacts with 5 human

11195 partners:{Q06609;P27694;P35244;P15927;P43351}  
Pathogen[ Q85601] interacts with 5 human

11196 partners:{P43351;P35244;P27694;P15927;Q06609}  
Pathogen[ P14079] interacts with 5 human

11197 partners:{P15927;P27694;P35244;Q06609;P43351}  
Pathogen[ P03383] interacts with 5 human

11198 partners:{P43351;Q06609;P27694;P15927;P35244}  
Pathogen[ P03410] interacts with 5 human

11199 partners:{P35244;P43351;P27694;P15927;Q06609}  
Pathogen[ P14075] interacts with 5 human

11200 partners:{P43351;P15927;P35244;P27694;Q06609}  
Pathogen[ P0C206] interacts with 5 human

11201 partners:{P43351;Q06609;P27694;P15927;P35244}  
Pathogen[ P03363] interacts with 5 human

11202 partners:{P27694;P35244;P15927;P43351;Q06609}  
[Cluster 1019]GO:0043966+P biological\_process [name] histone H3 acetylation [def]  
"The modification of histone H3 by the addition of an acetyl group." [GOC

11203 Pathogen[ Q2Q067] interacts with 27 human  
partners:{Q9NRF9;Q16594;Q8WYH8;Q6IE81;O75478;O75486;Q9UNL4;Q9H0E3;Q12962;O75529;Q9H8E8;Q92831;Q15306;Q9ULM3;O75528;Q01658;Q96ES7;Q92830;Q16514;Q9Y6J9;O94864;Q9NS73;O43318;Q9HBD4;P15923;Q96BN2;P17947}

11204 Pathogen[ P0C214] interacts with 28 human  
partners:{O75486;O75528;Q9Y6J9;O75478;Q9HBD4;P17947;Q9UNL4;Q12962;Q96BN2;O94864;O43318;Q16594;P15923;Q9NS73;Q9NRF9;Q16514;O95251;O75529;Q6IE81;Q92831;Q01658;Q92830;Q8WYH8;Q96ES7;Q9ULM3;Q9H8E8;Q9H0E3;Q15306}

11205 Pathogen[ P03346] interacts with 33 human  
partners:{Q9Y6J9;Q96ES7;Q9HBD4;Q8WYB5;Q9UNL4;Q8WYH8;O75486;P15923;Q9ULM3;Q9H8E8;Q15306;Q9H0E3;Q92831;Q9NR33;Q9NRF9;Q92830;Q96BN2;Q92794;O94864;O75478;O75528;O75529;O95251;P151587;Q9NS73;O95361;Q16514;Q12962;Q6IE81;P17947;Q01658;O43318;Q16594}

11206 Pathogen[ Q85601] interacts with 29 human  
partners:{O94864;O75528;O95251;Q9H0E3;Q9UNL4;Q96ES7;Q15306;Q92831;Q16594;Q9Y6J9;Q9NRF9;Q9NS73;Q92830;O75529;Q9H8E8;Q9ULM3;Q16514;Q01658;P15923;Q6IE81;Q9HBD4;Q8WYH8;P17947;Q96BN2;Q12962;O75486;O43318;O75478;P151587}

11207 Pathogen[ P14079] interacts with 27 human  
partners:{Q9H0E3;Q9Y6J9;O75528;Q16594;Q92830;Q9H8E8;O95251;Q9UNL4;O75529;P151587;O94864;P15923;Q15306;Q9ULM3;Q96BN2;Q6IE81;Q9NRF9;Q12962;Q96ES7;O75478;O95361;Q16514;O75486;Q01658;Q9NR33;Q8WYH8;Q9NS73}

11208 Pathogen[ P03383] interacts with 27 human  
partners:{Q9Y6J9;Q92831;Q9HBD4;Q9ULM3;Q96ES7;O75528;O75478;O75486;O95251;O94864;Q9NS73;P15923;Q9UNL4;Q8WYH8;Q96BN2;Q15306;O43318;O75529;Q16594;Q9H8E8;Q92830;Q16514;Q12962;Q6IE81;Q01658;P17947;Q9H0E3}

11209 Pathogen[ P03410] interacts with 30 human  
partners:{Q92830;Q92831;Q8WYH8;O95251;P17947;Q12962;Q9NS73;O75528;Q9UNL4;Q9ULM3;Q96ES7;P15923;Q15306;O75486;Q9H0E3;O43318;Q96BN2;Q16514;P151587;Q01658;O94864;Q9NRF9;Q9Y6J9;Q16594;Q9NR33;Q9H8E8;O75478;O75529;Q9HBD4;Q6IE81}

11210 Pathogen[ P14075] interacts with 27 human  
partners:{Q9Y6J9;Q12962;Q9HBD4;Q92831;Q01658;Q96BN2;P15923;Q16594;Q9H0E3;O94864;Q6IE81;O75478;O75528;Q9H8E8;Q9ULM3;O43318;Q15306;P17947;Q16514;O95251;Q9UNL4;O75486;O75529;Q8WYH8;Q96ES7;Q92830;Q9NS73}

11211 Pathogen[ P0C206] interacts with 30 human  
partners:{O75486;O75528;Q92830;Q16514;O95251;Q9NRF9;Q9ULM3;O94864;Q9NR33;Q8WYH8;P151587;O43318;Q15306;Q9Y6J9;O75529;Q92831;Q9H0E3;Q01658;P15923;O95361;P17947;Q96ES7;O75478;Q6IE81;Q9HBD4;Q96BN2;Q12962;Q9NS73;Q9UNL4;Q16594}

11212 Pathogen[ P03363] interacts with 29 human  
partners:{Q6IE81;Q9H8E8;Q92831;Q9NRF9;P17947;Q16514;O94864;O43318;Q15306;Q9UNL4;Q12962;P15923;O75529;Q96BN2;Q92830;Q9HBD4;O75486;Q9H0E3;Q9NR33;O75478;Q96ES7;Q9ULM3;Q01658;Q9NS73;O95251;Q8WYH8;Q9Y6J9;O75528;Q16594}

11213 [Cluster 1020]GO:0006917+P biological\_process [name] induction of apoptosis [def] "A process that directly activates any of the steps required for cell death by apoptosis." [GOC

11214 Pathogen[ Q2Q067] interacts with 81 human  
partners:{Q9UM63;P30153;Q13118;Q9Y3A2;P0C1Z6;P42773;Q93009;Q9NR28;Q96KQ4;Q7Z6J0;Q9BUP3;O00291;Q9UHR5;Q9UMX3;P21980;P14921;O75940;Q96QA5;P30793;Q9BXH1;O00273;P54274;O75489;Q00994;O60238;Q13625;P55345;O95999;Q9UER7;O60356;P67775;P17676;Q9NYF8;Q13794;P63241;Q9NZC7;Q8N726;O15304;Q96AQ7;O43524;Q9UHI6;Q9UK73;P61247;Q96CJ1;O75618;Q92782;Q14653;P84022;P55212;Q69YI7;P10914;Q9Y6K9;Q13114;P42575;P78560;O00198;Q7Z465;Q16890;Q9PJ0;Q92785;P23396;Q8WV24;Q12983;Q13761;Q9C000;Q15628;P42771;Q8N8D1;Q9UHD4;O14737;Q96RE7;Q96IZ0;P46527;P42224;P22736;Q9UPG8;Q9Y2A4;P17947;Q8N9B5;O76075;Q96A56}

11215 Pathogen[ P0C214] interacts with 85 human  
partners:{O00198;P61247;Q96CJ1;Q13761;Q7Z6J0;O14681;Q9Y6K9;Q9Y2A4;P14921;Q15628;P30153;Q96IZ0;Q92934;Q13625;P23396;P55212;Q7Z465;O75618;Q00994;P31483;P84022;P17947;P46527;P42224;P10914;Q9UPG8;Q8N726;P55345;P63241;Q16890;P17676;Q9NZC7;Q13794;P0C1Z6;Q9BX

- H1;O00273;P30793;Q9BUP3;Q9UHR5;Q8N8D1;Q9UER7;Q9UHD4;Q9P0J0;O95999;Q96QA5;Q9UMX3;O60356;P42574;P67775;P42771;Q9UHI6;Q69YI7;Q93009;Q96KQ4;O75940;Q14653;Q12983;P42773;Q9H4P4;Q8N9B5;Q13114;O75489;O60238;P21980;P78560;Q9UK73;Q96A56;Q8WV24;Q9UM63;P55210;Q9NR28;Q96AQ7;Q96RE7;Q92782;O15304;Q92785;O76075;O00291;P42575;P54274;Q9NYF8;Q9C000;Q96N9;O14737;Q9Y3A2}
- 11216 Pathogen[ P03346] interacts with 95 human partners: {P21980;Q9Y6K9;Q96CJ1;Q9Y3A2;O60443;Q93009;P58012;Q8WV24;Q8N9B5;P17676;O14737;O75489;Q7Z6J0;Q9H305;Q9UHR5;Q96KQ4;Q9BUP3;Q7Z465;Q9NR28;O60238;P54274;P42575;O15304;Q96A56;Q9H4P4;Q12981;O75940;P42574;P67775;Q96RE7;Q00994;Q96AQ7;P63241;Q9UM63;P42771;P55212;Q13114;O00291;Q12983;P0C1Z6;O95999;P30153;P78560;Q16890;P14921;P84022;Q96IZ0;P22736;P10914;P31483;Q9UPQ4;Q13118;Q9N9C7;O75569;Q13761;Q9UHI6;P55345;O75618;Q9UER7;Q96QA5;P61247;O00198;Q13625;P42224;Q14653;P42773;Q15628;P23396;Q9BWF2;O76075;Q96S99;Q92832;Q69YI7;P17947;Q99593;Q9HA38;O60356;P55210;Q9UPG8;Q9UMX3;Q9P0J0;Q9Y2A4;Q8N726;Q9NYF8;P46527;O43524;Q9BXH1;Q8N8D1;Q9UHD4;Q92785;Q9UK73;Q13794;O00273;Q92782;Q9C000}
- 11217 Pathogen[ Q85601] interacts with 86 human partners: {Q16890;Q96IZ0;Q9N9C7;Q96CJ1;Q9UPG8;P17676;Q9P0J0;Q96S99;Q9BXH1;Q8WV24;Q93009;P14921;Q7Z465;P23396;O15304;Q9UER7;Q9Y3A2;Q12981;P30153;Q9NR28;Q8N8D1;Q9UMX3;O76075;Q96AQ7;O75940;P63241;Q9UHD4;Q13114;Q92782;O00198;P30793;P0C1Z6;P10914;Q96KQ4;Q7Z6J0;Q14653;Q9Y6K9;Q92785;Q9UK73;Q8N726;Q9UM63;Q9Y2A4;Q9N9C7;P42575;Q9UPQ4;P21980;Q9UHI6;O75618;P22736;Q9HA38;O00273;Q13625;P42771;P42224;Q13118;Q96A56;P42773;P67775;Q15628;P84022;Q9BWF2;Q12983;Q96RE7;P17947;O60356;O00291;Q00994;P55212;O95999;Q9H4P4;P19447;O60238;P61247;O14737;Q8N9B5;Q9BUP3;Q9UHR5;P78560;Q9NYF8;P54274;Q13794;P55210;P46527;P55345;Q13761;Q69YI7}
- 11218 Pathogen[ P14079] interacts with 94 human partners: {Q96A56;P54274;Q16890;O75618;O76075;P23396;O00291;Q8WV24;Q14653;Q9Y3A2;Q13118;O95999;Q8N8D1;O15304;Q96CJ1;Q8N9B5;Q92782;Q9NP84;Q13323;Q9BWF2;Q9C000;P21980;Q9BXK5;Q00994;Q8N726;P22736;Q9H305;Q92785;O75569;Q96S99;Q13625;Q9UHI6;P30793;Q7Z465;Q9BXH1;P55212;Q9BUP3;Q9NYF8;Q9UK73;O75940;P55345;Q9UPG8;Q9Y287;Q8N114;Q9N9C7;Q9UER7;Q96AQ7;O14737;Q92934;P55210;Q96QA5;Q9Y6K9;Q92832;Q12981;P0C1Z6;Q9NR28;Q96IZ0;Q9UHR5;Q13794;Q9P0J0;Q12983;Q9UMX3;Q9HA38;Q96RE7;P42224;P63241;Q9Y2A4;O75489;O00198;P46527;Q13761;O60356;Q6UX65;P42773;P30153;Q69YI7;P42575;Q96KQ4;Q96FX8;Q9UM63;O60238;P61247;Q9Y239;O60443;Q9N9C7;Q15628;O14681;Q9UHD4;P19447;P31483;P10914;Q13114;O00273;P42771}
- 11219 Pathogen[ P03383] interacts with 68 human partners: {Q13761;P10914;O14737;Q14653;Q96A56;P55212;Q9Y6K9;P14921;Q9UK73;Q96CJ1;Q9UHR5;O15304;Q7Z465;O75618;Q96KQ4;O75489;Q96AQ7;Q9UHI6;Q9UMX3;Q96IZ0;P61247;P30153;P67775;Q92782;P63241;Q9UHD4;Q13625;Q12983;Q9Y3A2;P78560;O00291;P84022;O60238;Q00994;O00273;P46527;P17676;Q9NYF8;Q9UER7;P0C1Z6;Q96RE7;O95999;P42771;Q15628;Q9BUP3;Q8N9B5;O00198;Q9UM63;P21980;Q92785;O14681;Q13794;Q9BXH1;Q9P0J0;Q9Y2A4;Q8N8D1;Q8WV24;Q9NR28;Q16890;Q13114;P23396;P17947;Q96QA5;P54274;O75940;Q8N726;O60356;Q69YI7}
- 11220 Pathogen[ P03410] interacts with 99 human partners: {P84022;Q9H305;P42771;P61247;P46527;O14681;Q9Y239;Q12983;Q96S99;P78560;P17676;Q8N726;P17947;Q9NR28;Q9BXH1;P54274;Q9UHD4;O00198;P42575;Q96AQ7;Q69YI7;O76075;Q9N9C7;Q9UPG8;Q14653;Q9UPQ4;Q7Z465;O00273;Q8N114;P23396;Q92934;Q92785;Q9Y287;Q9C000;Q13794;O00291;Q96KQ4;P30793;P0C1Z6;Q92832;O75569;Q9BWF2;Q00994;Q15628;Q8WV24;Q9UER7;O95999;Q92782;Q96FX8;Q7Z6J0;Q9UMX3;Q6UX65;P19447;P10914;O60356;P22736;Q96IZ0;Q9BUP3;O75489;P31483;Q9UM63;O60443;Q13118;Q96CJ1;Q9UK73;P30153;Q9HA38;Q13761;Q8N9B5;Q96A56;P63241;Q16890;Q96QA5;P21980;Q96RE7;Q9NYF8;Q9Y3A2;Q9P0J0;Q9Y6K9;Q9NP84;O75618;Q12981;O75940;P67775;Q13625;P55212;Q9UHI6;P42773;Q8N8D1;Q9Y2A4;O60238;O14737;Q13114;Q13323;P55345;P14921;P55210;Q9UHR5;O15304}
- 11221 Pathogen[ P14075] interacts with 71 human partners: {P78560;Q9UK73;Q9BUP3;Q12983;Q9UHD4;Q96FX8;O00273;O14681;Q96KQ4;Q9UM63;Q9UMX3;Q92782;Q7Z465;Q9Y2A4;Q9UHR5;P55212;P0C1Z6;Q00994;P42771;Q96QA5;P63241;O15304;Q9NYF8;Q96IZ0;Q8WV24;P46527;Q92785;Q96AQ7;O75940;O00291;Q9NR28;P54274;Q9UHI6;O75618;Q8N8D1;Q14653;Q96RE7;P61247;Q16890;Q9BXH1;O60238;Q96CJ1;P23396;P17947;Q13114;O14737;O60356;P14921;O95999;Q13794;Q13625;Q15628;P67775;P30153;Q69YI7;Q9Y6K9;P84022;P21980;Q9UER7;P17676;P30793;O75489;Q9Y287;P10914;Q9Y3A2;Q8N9B5;Q9P0J0;Q96A56;Q8N726;O00198;Q13761}
- 11222 Pathogen[ P0C206] interacts with 99 human partners: {Q9N9C7;Q9C000;P84022;P10914;P31483;Q9H4P4;Q9H305;Q9BUP3;Q96IZ0;Q9Y6K9;P14921;O00291;Q7Z6J0;Q13114;Q8N726;Q9NR28;Q9Y287;P30153;O14737;Q9UK73;Q96FX8;Q13625;P78560;Q9UHR5;O76075;Q9UMX3;O95999;P21980;O75940;Q9UM63;P55212;Q16890;Q9UER7;O75618;P42771;Q93009;Q9BXH1;P67775;Q96KQ4;P22736;P30793;Q96A56;Q00994;Q8N9B5;P61247;P19447;Q92934;O60356;Q92782;Q92785;P54274;P42773;O60238;Q9UPQ4;O14681;Q12983;P0C1Z6;O60443;Q9NYF8;P23396;P17676;Q96CJ1;Q8N8D1;O00198;P46527;P17947;Q96AQ7;Q15628;Q96S99;Q9HA38;P42574;Q7Z465;Q9P0J0;Q12981;P63241;Q9UHD4;O75489;Q9N9C7;Q9UPG8;P42575;Q9BWF2;Q9BXK5;Q9UHI6;Q92832;Q96QA5;P55345;Q13118;P42224;P55210;O15304;Q96RE7;Q9Y3A2;O00273;Q13761;Q9Y2A4;Q69YI7;Q13794;Q8WV24;Q14653}
- 11223 Pathogen[ P03363] interacts with 76 human partners: {O75940;Q14653;Q96RE7;O00273;P23396;Q9BUP3;Q9BWF2;Q96AQ7;O60443;O60356;P17676;Q9C000;Q9UHI6;Q96IZ0;Q69YI7;O75618;Q13794;Q8WV24;P17947;O15304;Q13625;Q8N8D1;Q9Y6K9;P14921;Q9UER7;Q9Y2A4;Q9UM63;Q96KQ4;O00198;O43524;Q9H305;P55212;Q92832;Q96A56;Q96QA5;Q9UPG8;Q9NR28;Q9P0J0;P54274;Q9UHR5;O76075;P0C1Z6;P84022;Q92782;Q7Z465;P10914;Q9NYF8;Q00994;P78560;Q9H4P4;Q15628;P63241;Q8N726;Q16890;Q7Z6J0;Q13114;O14737;Q96CJ1;P61247;P55210;Q9Y3A2;P42773;P31483;Q9BXH1;Q13761;P30153;Q9UK73;O60238;P67775;Q9UMX3;Q8N9B5;P42771;O00291;O75569;Q13118;Q92785}

11224 [Cluster 1021]GO:0002268+P biological\_process [name] follicular dendritic cell differentiation [def] "The process in which a relatively unspecialized precursor cell acquires the specialized features of a follicular dendritic cell." [GOC

11225 Pathogen[ Q2Q067] interacts with 2 human partners:{P20749;Q00653}

11226 Pathogen[ P0C214] interacts with 2 human partners:{Q00653;P20749}

11227 Pathogen[ P03346] interacts with 2 human partners:{P20749;Q00653}

11228 Pathogen[ Q85601] interacts with 2 human partners:{Q00653;P20749}

11229 Pathogen[ P14079] interacts with 1 human partners:{P20749}

11230 Pathogen[ P03383] interacts with 2 human partners:{Q00653;P20749}

11231 Pathogen[ P03410] interacts with 2 human partners:{P20749;Q00653}

11232 Pathogen[ P14075] interacts with 2 human partners:{Q00653;P20749}

11233 Pathogen[ P0C206] interacts with 2 human partners:{P20749;Q00653}

11234 Pathogen[ P03363] interacts with 2 human partners:{P20749;Q00653}

11235 [Cluster 1022]GO:2000632+P biological\_process [name] negative regulation of pre-miRNA processing [def] "Any process that stops, prevents or reduces the frequency, rate or extent of pre-microRNA processing." [GOC

11236 Pathogen[ Q2Q067] interacts with 1 human partners:{Q7Z5W3}

11237 Pathogen[ P0C214] interacts with 1 human partners:{Q7Z5W3}

11238 Pathogen[ P03346] interacts with 1 human partners:{Q7Z5W3}

11239 Pathogen[ Q85601] interacts with 1 human partners:{Q7Z5W3}

11240 Pathogen[ P14079] interacts with 1 human partners:{Q7Z5W3}

11241 Pathogen[ P03383] interacts with 1 human partners:{Q7Z5W3}

11242 Pathogen[ P03410] interacts with 1 human partners:{Q7Z5W3}

11243 Pathogen[ P14075] interacts with 1 human partners:{Q7Z5W3}

11244 Pathogen[ P0C206] interacts with 1 human partners:{Q7Z5W3}

11245 Pathogen[ P03363] interacts with 1 human partners:{Q7Z5W3}

11246 [Cluster 1023]GO:0007409+P biological\_process [name] axonogenesis [def] "Generation of a long process of a neuron, that carries efferent (outgoing) action potentials from the cell body towards target cells." [GOC

11247 Pathogen[ Q2Q067] interacts with 4 human partners:{O00213;Q12837;Q9BYG5;Q99608}

11248 Pathogen[ P0C214] interacts with 9 human partners:{O00213;P60709;A0MZ66;Q99608;P35580;Q12837;Q9BYG5;P16220;P63261}

11249 Pathogen[ P03346] interacts with 15 human partners:{O00213;O15522;P16220;Q12837;P60709;P06703;Q8TEW0;Q9BYG5;O75840;P11137;Q13492;Q99608;P56178;Q9Y6R0;Q9UIW0}

11250 Pathogen[ Q85601] interacts with 8 human partners:{O00213;Q9BYG5;Q99608;P60709;P63261;P16220;P35580;Q12837}

11251 Pathogen[ P14079] interacts with 12 human partners:{Q13492;P63261;Q9BYG5;A0MZ66;O00213;Q12837;Q99608;Q8TEW0;P60709;P11137;P06703;P10636}

11252 Pathogen[ P03383] interacts with 6 human partners:{O00213;P16220;Q99608;Q9BYG5;Q12837;P35580}

11253 Pathogen[ P03410] interacts with 15 human partners:{P11137;Q99608;O00213;A0MZ66;P06703;Q13492;P16220;P10636;P35580;Q9BZR6;Q8TEW0;P63261;Q12837;P60709;Q9BYG5}

11254 Pathogen[ P14075] interacts with 5 human partners:{O00213;Q99608;Q12837;Q9BYG5;P16220}

11255 Pathogen[ P0C206] interacts with 13 human partners:{P60709;P16220;Q9BYG5;P10636;Q12837;O00213;Q8TEW0;P11137;P63261;Q99608;A0MZ66;P06703;P35580}

11256 Pathogen[ P03363] interacts with 11 human partners:{Q9UIW0;P11137;P60709;O00213;P16220;Q99608;Q9BYG5;P63261;Q9Y6R0;O15522;Q12837}

11257 [Cluster 1024]GO:0006767+P biological\_process [name] water-soluble vitamin metabolic process [def] "The chemical reactions and pathways involving any of a diverse group of vitamins that are soluble in water." [GOC

11258 Pathogen[ Q2Q067] interacts with 9 human partners:{Q9BU02;Q6XQN6;Q9HAB8;Q9NRN7;Q9HAN9;P11166;P34896;O96007;Q9Y697}

11259 Pathogen[ P0C214] interacts with 23 human partners:{Q96T66;Q9BU02;Q05932;Q9HAN9;Q8TE04;Q9HAB8;O96033;P42898;Q6XQN6;O95396;Q13057;P11166;P00374;Q9Y697;P34896;Q9BZQ4;O96007;Q9BZ23;Q15274;Q9NRN7;Q8NFF5;P43490;P11586}

11260 Pathogen[ P03346] interacts with 8 human partners:{Q9NRN7;Q9Y697;Q9HAN9;Q6XQN6;P11166;O96007;Q9BU02;Q9HAB8}

11261 Pathogen[ Q85601] interacts with 8 human partners:{Q9NRN7;Q9BU02;Q9Y697;Q9HAN9;Q6XQN6;P11166;P34896;O96007}

11262 Pathogen[ P14079] interacts with 25 human partners:{P00374;Q8TE04;O95544;Q8NFF5;P43490;P11166;Q96NT5;O96007;O96033;Q9BZ23;Q9BZQ4;Q6XQN6;Q13057;Q9Y697;Q9NRN7;Q9BU02;Q9HAN9;Q6IA69;Q96CD2;Q15274;Q05932;Q9NVS9;Q9HAB8;P34896;P42898}

11263 Pathogen[ P03383] interacts with 9 human partners:{Q9BU02;P34896;Q9NRN7;Q9Y697;Q9HAN9;O96007;Q9BZ23;P11169;Q9HAB8}

11264 Pathogen[ P03410] interacts with 23 human partners:{Q15274;Q9BU02;Q8NFF5;Q8TE04;P11166;Q13057;P00374;Q9Y697;Q6XQN6;P43490;O96007;Q96CD2;P42898;Q9NRN7;Q9BZ23;Q9HAN9;Q9NVS9;O96033;Q9HAB8;Q05932;Q6IA69;Q9BZQ4;P34896}

11265 Pathogen[ P14075] interacts with 13 human partners: {P11169;Q9HAB8;P34896;Q13057;Q9NVS9;Q8TE04;O96007;Q9BZ23;Q9HAN9;Q6XQN6;Q9BU02;Q9NRN7;Q9Y697}

11266 Pathogen[ POC206] interacts with 17 human partners: {Q6XQN6;Q8TE04;Q13057;Q9Y697;O96007;P43490;Q9BZ23;P11166;Q9HAB8;P34896;Q9BZ04;Q9HAN9;Q15274;Q9BU02;O95396;Q9NRN7;Q05932}

11267 Pathogen[ P03363] interacts with 7 human partners: {Q6XQN6;Q9HAN9;O96007;Q9Y697;Q9NRN7;Q9BU02;P11166}

11268 [Cluster 1025]GO:0010957+P biological\_process [name] negative regulation of vitamin D biosynthetic process [def] "Any process that decreases the rate, frequency or extent of a vitamin D biosynthetic process. Vitamin D biosynthesis is the chemical reactions and pathways resulting in the formation of vitamin D, any of a group of related, fat-soluble compounds that are derived from delta-5,7 steroids and play a central role in calcium metabolism. Specific forms of vitamin D include calciferol (ergocalciferol\_ vitamin D2) and cholecalciferol (calciol\_ vitamin D3)." [GOC

11269 Pathogen[ Q2Q067] interacts with 2 human partners: {Q99684;P19838}

11270 Pathogen[ POC214] interacts with 2 human partners: {P19838;Q99684}

11271 Pathogen[ P03346] interacts with 3 human partners: {O95863;Q99684;P19838}

11272 Pathogen[ Q85601] interacts with 2 human partners: {Q99684;P19838}

11273 Pathogen[ P14079] interacts with 1 human partners: {Q99684}

11274 Pathogen[ P03383] interacts with 2 human partners: {Q99684;P19838}

11275 Pathogen[ P03410] interacts with 2 human partners: {P19838;Q99684}

11276 Pathogen[ P14075] interacts with 2 human partners: {Q99684;P19838}

11277 Pathogen[ POC206] interacts with 2 human partners: {P19838;Q99684}

11278 Pathogen[ P03363] interacts with 2 human partners: {Q99684;P19838}

11279 [Cluster 1026]GO:0042060+P biological\_process [name] wound healing [def] "The series of events that restore integrity to a damaged tissue, following an injury." [GOC

11280 Pathogen[ Q2Q067] interacts with 14 human partners: {Q9UKI9;Q14160;Q8IVN3;P41970;Q9NVK5;P15924;P35548;P49356;Q9UBC9;P84022;P06396;Q13233;Q8TE85;Q15797}

11281 Pathogen[ POC214] interacts with 16 human partners: {P41970;P15924;P84022;Q9UKI9;P06396;P05121;Q8TE85;Q13233;P49356;Q14160;Q9NVK5;P05120;Q8IVN3;Q15797;Q9UBC9;P35548}

11282 Pathogen[ P03346] interacts with 17 human partners: {P15924;Q99612;P35548;Q15797;Q9UKI9;Q9NVK5;Q8TE85;Q9UBC9;Q8IVN3;P84022;P49356;Q01954;Q13233;Q5JRA6;P41970;Q14160;P06396}

11283 Pathogen[ Q85601] interacts with 18 human partners: {Q8TE85;P06396;Q15797;P41970;Q01954;P15924;Q8IVN3;Q9NVK5;P35548;Q14160;Q9UKI9;Q99612;P49356;P05121;P84022;P05120;Q13233;Q9UBC9}

11284 Pathogen[ P14079] interacts with 12 human partners: {Q8TE85;P15924;Q15797;Q99612;Q8IVN3;Q5JRA6;P49356;Q9NVK5;Q9UBC9;Q9UKI9;Q99439;P41970}

11285 Pathogen[ P03383] interacts with 12 human partners: {P15924;Q9UKI9;Q14160;Q13233;Q15797;Q8TE85;Q8IVN3;Q9UBC9;P84022;P35548;P41970;P06396}

11286 Pathogen[ P03410] interacts with 17 human partners: {P84022;P05121;P15924;Q9UBC9;P49356;P06396;Q9NVK5;Q13233;Q14160;P35548;Q8TE85;Q99439;Q8IVN3;Q15797;Q9UKI9;P41970;Q5JRA6}

11287 Pathogen[ P14075] interacts with 11 human partners: {Q9UBC9;Q14160;Q8TE85;P35548;P06396;Q9UKI9;P41970;Q8IVN3;P84022;Q13233;P15924}

11288 Pathogen[ POC206] interacts with 18 human partners: {Q8TE85;P84022;P06396;Q9UBC9;Q5JRA6;P41970;Q13233;Q9NVK5;Q8IVN3;Q99612;Q14160;P35548;Q9UKI9;P15924;Q15797;P05121;P49356;Q01954}

11289 Pathogen[ P03363] interacts with 15 human partners: {Q14160;Q9UBC9;Q9UKI9;Q9NVK5;Q99612;P35548;Q15797;P15924;P06396;Q8TE85;P84022;Q01954;P41970;Q8IVN3;Q13233}

11290 [Cluster 1027]GO:0009301+P biological\_process [name] snRNA transcription [def] "The synthesis of small nuclear RNA (snRNA) from a DNA template." [GOC

11291 Pathogen[ Q2Q067] interacts with 4 human partners: {Q13487;Q5SXM2;Q8IXW5;Q92966}

11292 Pathogen[ POC214] interacts with 4 human partners: {Q8IXW5;Q5SXM2;Q92966;Q13487}

11293 Pathogen[ P03346] interacts with 4 human partners: {Q13487;Q8IXW5;Q5SXM2;Q92966}

11294 Pathogen[ Q85601] interacts with 4 human partners: {Q13487;Q5SXM2;Q8IXW5;Q92966}

11295 Pathogen[ P14079] interacts with 4 human partners: {Q5SXM2;Q92966;Q13487;Q8IXW5}

11296 Pathogen[ P03383] interacts with 4 human partners: {Q13487;Q92966;Q8IXW5;Q5SXM2}

11297 Pathogen[ P03410] interacts with 4 human partners: {Q92966;Q13487;Q8IXW5;Q5SXM2}

11298 Pathogen[ P14075] interacts with 4 human partners: {Q8IXW5;Q92966;Q5SXM2;Q13487}

11299 Pathogen[ POC206] interacts with 4 human partners: {Q8IXW5;Q13487;Q5SXM2;Q92966}

11300 Pathogen[ P03363] interacts with 4 human partners: {Q13487;Q8IXW5;Q92966;Q5SXM2}

11301 [Cluster 1028]GO:0045217+P biological\_process [name] cell-cell junction maintenance [def] "The maintenance of junctions between cells." [GOC

11302 Pathogen[ Q2Q067] interacts with 1 human partners: {Q9NPB6}

11303 Pathogen[ POC214] interacts with 1 human partners: {Q9NPB6}

11304 Pathogen[ P03346] interacts with 1 human partners: {Q9NPB6}

11305 Pathogen[ Q85601] interacts with 1 human partners: {Q9NPB6}

11306 Pathogen[ P14079] interacts with 1 human partners: {Q9NPB6}

11307 Pathogen[ P03383] interacts with 1 human partners:{Q9NPB6}  
11308 Pathogen[ P03410] interacts with 1 human partners:{Q9NPB6}  
11309 Pathogen[ P14075] interacts with 1 human partners:{Q9NPB6}  
11310 Pathogen[ P0C206] interacts with 1 human partners:{Q9NPB6}  
11311 Pathogen[ P03363] interacts with 1 human partners:{Q9NPB6}  
11312 [Cluster 1029]GO:0030219+P biological\_process [name] megakaryocyte differentiation [def] "The process in which a myeloid precursor cell acquires specialized features of a megakaryocyte." [GOC  
11313 Pathogen[ Q2Q067] interacts with 5 human partners:{P15976;Q02447;P08047;Q8IX07;P42772}  
11314 Pathogen[ P0C214] interacts with 4 human partners:{Q8IX07;Q02447;P08047;P42772}  
11315 Pathogen[ P03346] interacts with 6 human partners:{P42772;P08047;P17542;P15976;Q8IX07;Q02447}  
11316 Pathogen[ Q85601] interacts with 5 human partners:{P15976;P42772;P08047;Q8IX07;Q02447}  
11317 Pathogen[ P14079] interacts with 4 human partners:{P20809;Q02447;P15976;Q8IX07}  
11318 Pathogen[ P03383] interacts with 3 human partners:{P08047;P42772;Q02447}  
11319 Pathogen[ P03410] interacts with 6 human partners:{P42772;Q02447;P20809;Q8IX07;P08047;P15976}  
11320 Pathogen[ P14075] interacts with 4 human partners:{Q02447;P20809;P42772;P08047}  
11321 Pathogen[ P0C206] interacts with 6 human partners:{P42772;P15976;P08047;Q02447;P20809;Q8IX07}  
11322 Pathogen[ P03363] interacts with 3 human partners:{Q02447;P42772;P08047}  
11323 [Cluster 1030]GO:0071276+P biological\_process [name] cellular response to cadmium ion [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a cadmium (Cd) ion stimulus." [GOC  
11324 Pathogen[ Q2Q067] interacts with 8 human partners:{P13640;P04732;P04733;P06396;O15527;P80294;P04731;P80297}  
11325 Pathogen[ P0C214] interacts with 8 human partners:{P06396;P13640;P80297;P04732;P04733;P80294;P04731;O15527}  
11326 Pathogen[ P03346] interacts with 8 human partners:{P04732;P80294;P04733;P13640;P80297;P04731;P06396;O15527}  
11327 Pathogen[ Q85601] interacts with 8 human partners:{O15527;P80294;P06396;P04732;P80297;P04733;P04731;P13640}  
11328 Pathogen[ P14079] interacts with 7 human partners:{P80297;P80294;O15527;P13640;P04731;P04732;P04733}  
11329 Pathogen[ P03383] interacts with 8 human partners:{P04733;P80294;P13640;O15527;P80297;P04732;P04731;P06396}  
11330 Pathogen[ P03410] interacts with 8 human partners:{P80297;P04733;P06396;P13640;P04731;O15527;P80294;P04732}  
11331 Pathogen[ P14075] interacts with 8 human partners:{P04733;P80297;O15527;P13640;P06396;P80294;P04731;P04732}  
11332 Pathogen[ P0C206] interacts with 8 human partners:{P13640;P06396;O15527;P04732;P04733;P80294;P04731;P80297}  
11333 Pathogen[ P03363] interacts with 8 human partners:{P80294;P80297;O15527;P13640;P04732;P06396;P04731;P04733}  
11334 [Cluster 1031]GO:0043968+P biological\_process [name] histone H2A acetylation [def] "The modification of histone H2A by the addition of an acetyl group." [GOC  
11335 Pathogen[ Q2Q067] interacts with 9 human partners:{Q9Y4A5;Q9NXR8;Q9NPF5;O96019;Q9HAF1;Q9UBU8;O95619;Q9H2F5;Q9H0E9}  
11336 Pathogen[ P0C214] interacts with 8 human partners:{Q9H2F5;O95619;Q9HAF1;Q9UBU8;Q9Y4A5;Q9H0E9;O96019;Q9NPF5}  
11337 Pathogen[ P03346] interacts with 9 human partners:{Q9H0E9;O96019;Q9Y4A5;Q9UBU8;Q9H2F5;O95619;Q9HAF1;Q9NXR8;Q9NPF5}  
11338 Pathogen[ Q85601] interacts with 9 human partners:{O95619;Q9H2F5;Q9HAF1;Q9Y4A5;Q9H0E9;Q9UBU8;O96019;Q9NXR8;Q9NPF5}  
11339 Pathogen[ P14079] interacts with 7 human partners:{Q9Y4A5;Q9UBU8;Q9HAF1;Q9H0E9;Q9NPF5;Q9H2F5;O95619}  
11340 Pathogen[ P03383] interacts with 8 human partners:{O96019;Q9Y4A5;Q9H2F5;Q9UBU8;Q9H0E9;Q9NPF5;Q9HAF1;O95619}  
11341 Pathogen[ P03410] interacts with 8 human partners:{O95619;O96019;Q9NPF5;Q9UBU8;Q9H2F5;Q9Y4A5;Q9NXR8;Q9H0E9}  
11342 Pathogen[ P14075] interacts with 7 human partners:{Q9H2F5;Q9UBU8;O95619;Q9Y4A5;Q9NPF5;O96019;Q9HAF1}  
11343 Pathogen[ P0C206] interacts with 9 human partners:{Q9H2F5;Q9NPF5;Q9UBU8;Q9NXR8;O96019;Q9Y4A5;O95619;Q9HAF1;Q9H0E9}  
11344 Pathogen[ P03363] interacts with 8 human partners:{Q9NPF5;O95619;Q9H2F5;Q9HAF1;Q9UBU8;O96019;Q9Y4A5;Q9H0E9}  
11345 [Cluster 1032]GO:0006000+P biological\_process [name] fructose metabolic process [def] "The chemical reactions and pathways involving fructose, the ketohehexose arabino-2-hexulose. Fructose exists in a open chain form or as a ring compound. D-fructose is the sweetest of the sugars and is found free in a large number of fruits and honey." [ISBN  
11346 Pathogen[ Q2Q067] interacts with 3 human partners:{P05062;P09972;P09467}  
11347 Pathogen[ P0C214] interacts with 6 human

11348 Pathogen[ P03346] interacts with 3 human partners:{P09972;P09467;P05062}  
11349 Pathogen[ Q85601] interacts with 6 human partners:{O60825;O00757;P05062;P16118;P09972;P09467}  
11350 Pathogen[ P14079] interacts with 2 human partners:{P09972;P09467}  
11351 Pathogen[ P03383] interacts with 2 human partners:{P09467;P09972}  
11352 Pathogen[ P03410] interacts with 5 human partners:{P16118;P05062;P09467;O00757;P09972}  
11353 Pathogen[ P14075] interacts with 3 human partners:{P16118;P09972;P09467}  
11354 Pathogen[ P0C206] interacts with 6 human partners:{P05062;P09467;O00757;O60825;P09972;P16118}  
11355 Pathogen[ P03363] interacts with 1 human partners:{P09972}  
11356 [Cluster 1033]GO:0006622+P biological\_process [name] protein targeting to lysosome [def] "The process of directing proteins towards the lysosome using signals contained within the protein." [GOC  
11357 Pathogen[ Q2Q067] interacts with 2 human partners:{Q8IWIJ2;Q9Y2T2}  
11358 Pathogen[ P0C214] interacts with 2 human partners:{Q8IWIJ2;Q9Y2T2}  
11359 Pathogen[ P03346] interacts with 3 human partners:{Q7Z3T8;Q8IWIJ2;Q9Y2T2}  
11360 Pathogen[ Q85601] interacts with 2 human partners:{Q8IWIJ2;Q9Y2T2}  
11361 Pathogen[ P14079] interacts with 3 human partners:{Q9Y2T2;Q8IWIJ2;Q7Z3T8}  
11362 Pathogen[ P03383] interacts with 2 human partners:{Q8IWIJ2;Q9Y2T2}  
11363 Pathogen[ P03410] interacts with 4 human partners:{O00203;Q9Y2T2;Q8IWIJ2;Q7Z3T8}  
11364 Pathogen[ P14075] interacts with 2 human partners:{Q9Y2T2;Q8IWIJ2}  
11365 Pathogen[ P0C206] interacts with 3 human partners:{Q9Y2T2;Q7Z3T8;Q8IWIJ2}  
11366 Pathogen[ P03363] interacts with 2 human partners:{Q9Y2T2;Q8IWIJ2}  
11367 [Cluster 1034]GO:0006541+P biological\_process [name] glutamine metabolic process [def] "The chemical reactions and pathways involving glutamine, 2-amino-4-carbamoylbutanoic acid." [GOC  
11368 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9UI32;O94925}  
11369 Pathogen[ P0C214] interacts with 4 human partners:{Q9UI32;Q9NRF8;O94925;P17812}  
11370 Pathogen[ P03346] interacts with 2 human partners:{Q9UI32;O94925}  
11371 Pathogen[ Q85601] interacts with 2 human partners:{O94925;Q9UI32}  
11372 Pathogen[ P14079] interacts with 6 human partners:{P17812;Q9NRF8;O94925;Q9UI32;P49915;O15067}  
11373 Pathogen[ P03383] interacts with 1 human partners:{O94925}  
11374 Pathogen[ P03410] interacts with 6 human partners:{P49915;Q9NRF8;P17812;O94925;O15067;Q9UI32}  
11375 Pathogen[ P14075] interacts with 1 human partners:{O94925}  
11376 Pathogen[ P0C206] interacts with 2 human partners:{Q9UI32;O94925}  
11377 Pathogen[ P03363] interacts with 2 human partners:{O94925;Q9UI32}  
11378 [Cluster 1035]GO:0042345+P biological\_process [name] regulation of NF-kappaB import into nucleus [def] "Any process that modulates the frequency, rate or extent of the transfer of NF-kappaB, a transcription factor for eukaryotic RNA polymerase II promoters, from the cytoplasm into the nucleus, across the nuclear membrane." [GOC  
11379 Pathogen[ Q2Q067] interacts with 3 human partners:{P20749;Q06830;P25963}  
11380 Pathogen[ P0C214] interacts with 3 human partners:{Q06830;P20749;P25963}  
11381 Pathogen[ P03346] interacts with 3 human partners:{P25963;P20749;Q06830}  
11382 Pathogen[ Q85601] interacts with 3 human partners:{Q06830;P20749;P25963}  
11383 Pathogen[ P14079] interacts with 1 human partners:{P20749}  
11384 Pathogen[ P03383] interacts with 2 human partners:{P20749;P25963}  
11385 Pathogen[ P03410] interacts with 3 human partners:{P20749;P25963;Q06830}  
11386 Pathogen[ P14075] interacts with 2 human partners:{P25963;P20749}  
11387 Pathogen[ P0C206] interacts with 3 human partners:{P25963;P20749;Q06830}  
11388 Pathogen[ P03363] interacts with 2 human partners:{P25963;P20749}  
11389 [Cluster 1036]GO:0047497+P biological\_process [name] mitochondrion transport along microtubule [def] "The directed movement of a mitochondrion along a microtubule, mediated by motor proteins." [GOC  
11390 Pathogen[ Q2Q067] interacts with 3 human partners:{P42704;Q9UBK9;Q66K74}  
11391 Pathogen[ P0C214] interacts with 3 human partners:{P42704;Q9UBK9;Q66K74}  
11392 Pathogen[ P03346] interacts with 3 human partners:{Q66K74;P42704;Q9UBK9}  
11393 Pathogen[ Q85601] interacts with 3 human partners:{Q66K74;P42704;Q9UBK9}  
11394 Pathogen[ P14079] interacts with 4 human partners:{Q66K74;P42704;Q9UBK9;P10636}  
11395 Pathogen[ P03383] interacts with 2 human partners:{P42704;Q9UBK9}  
11396 Pathogen[ P03410] interacts with 5 human partners:{Q9UBK9;O60333;P42704;Q66K74;P10636}  
11397 Pathogen[ P14075] interacts with 2 human partners:{P42704;Q9UBK9}  
11398 Pathogen[ P0C206] interacts with 4 human partners:{P10636;Q66K74;P42704;Q9UBK9}  
11399 Pathogen[ P03363] interacts with 4 human partners:{Q66K74;P42704;Q9UBK9;O60333}  
11400 [Cluster 1037]GO:0006608+P biological\_process [name] snRNP protein import into nucleus [def] "The directed movement of a small nuclear ribonucleoprotein from the cytoplasm into the nucleus, across the nuclear membrane." [GOC  
11401 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9Y2X3}  
11402 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y2X3}  
11403 Pathogen[ P03346] interacts with 1 human partners:{Q9Y2X3}  
11404 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y2X3}  
11405 Pathogen[ P14079] interacts with 1 human partners:{Q9Y2X3}



11406 Pathogen[ P03383] interacts with 1 human partners:{Q9Y2X3}  
11407 Pathogen[ P03410] interacts with 1 human partners:{Q9Y2X3}  
11408 Pathogen[ P14075] interacts with 1 human partners:{Q9Y2X3}  
11409 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y2X3}  
11410 Pathogen[ P03363] interacts with 1 human partners:{Q9Y2X3}  
11411 [Cluster 1038]GO:0090179+P biological\_process [name] planar cell polarity pathway involved in neural tube closure [def] "The series of molecular signals initiated by binding of a Wnt protein to a receptor on the surface of the target cell where activated receptors signal via downstream effectors that modulates the establishment of planar polarity contributing to neural tube closure." [GOC  
11412 Pathogen[ Q2Q067] interacts with 2 human partners:{O14641;Q8TE85}  
11413 Pathogen[ P0C214] interacts with 2 human partners:{Q8TE85;O14641}  
11414 Pathogen[ P03346] interacts with 2 human partners:{Q8TE85;O14641}  
11415 Pathogen[ Q85601] interacts with 2 human partners:{Q8TE85;O14641}  
11416 Pathogen[ P14079] interacts with 2 human partners:{O14641;Q8TE85}  
11417 Pathogen[ P03383] interacts with 2 human partners:{Q8TE85;O14641}  
11418 Pathogen[ P03410] interacts with 2 human partners:{Q8TE85;O14641}  
11419 Pathogen[ P14075] interacts with 2 human partners:{Q8TE85;O14641}  
11420 Pathogen[ P0C206] interacts with 1 human partners:{Q8TE85}  
11421 Pathogen[ P03363] interacts with 2 human partners:{Q8TE85;O14641}  
11422 [Cluster 1039]GO:0060236+P biological\_process [name] regulation of mitotic spindle organization [def] "Any process that modulates the rate, frequency or extent of the assembly, arrangement of constituent parts, or disassembly of the microtubule spindle during a mitotic cell cycle." [GOC  
11423 Pathogen[ Q2Q067] interacts with 3 human partners:{Q6PGQ7;Q6PGN9;Q9ULW0}  
11424 Pathogen[ P0C214] interacts with 3 human partners:{Q6PGN9;Q9ULW0;Q6PGQ7}  
11425 Pathogen[ P03346] interacts with 3 human partners:{Q9ULW0;Q6PGN9;Q6PGQ7}  
11426 Pathogen[ Q85601] interacts with 3 human partners:{Q6PGN9;Q9ULW0;Q6PGQ7}  
11427 Pathogen[ P14079] interacts with 3 human partners:{Q6PGQ7;Q9ULW0;Q6PGN9}  
11428 Pathogen[ P03383] interacts with 3 human partners:{Q6PGN9;Q6PGQ7;Q9ULW0}  
11429 Pathogen[ P03410] interacts with 3 human partners:{Q6PGQ7;Q9ULW0;Q6PGN9}  
11430 Pathogen[ P14075] interacts with 3 human partners:{Q9ULW0;Q6PGN9;Q6PGQ7}  
11431 Pathogen[ P0C206] interacts with 3 human partners:{Q9ULW0;Q6PGQ7;Q6PGN9}  
11432 Pathogen[ P03363] interacts with 3 human partners:{Q9ULW0;Q6PGQ7;Q6PGN9}  
11433 [Cluster 1040]GO:0031937+P biological\_process [name] positive regulation of chromatin silencing [def] "Any process that activates or increases the frequency, rate or extent of chromatin silencing." [GOC  
11434 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8N108}  
11435 Pathogen[ P0C214] interacts with 1 human partners:{Q8N108}  
11436 Pathogen[ P03346] interacts with 1 human partners:{Q8N108}  
11437 Pathogen[ Q85601] interacts with 1 human partners:{Q8N108}  
11438 Pathogen[ P14079] interacts with 1 human partners:{Q8N108}  
11439 Pathogen[ P03383] interacts with 1 human partners:{Q8N108}  
11440 Pathogen[ P03410] interacts with 1 human partners:{Q8N108}  
11441 Pathogen[ P14075] interacts with 1 human partners:{Q8N108}  
11442 Pathogen[ P0C206] interacts with 1 human partners:{Q8N108}  
11443 Pathogen[ P03363] interacts with 1 human partners:{Q8N108}  
11444 [Cluster 1041]GO:0043085+P biological\_process [name] positive regulation of catalytic activity [def] "Any process that activates or increases the activity of an enzyme." [GOC  
11445 Pathogen[ Q2Q067] interacts with 8 human partners:{O15519;Q16082;Q9UBU7;Q9UKN8;Q9UJW3;P31946;P35251;Q8IY92}  
11446 Pathogen[ P0C214] interacts with 8 human partners:{Q16082;Q9UKN8;P35251;Q9UBU7;O15519;Q8IY92;P31946;Q9UJW3}  
11447 Pathogen[ P03346] interacts with 11 human partners:{Q16082;P59103;Q9UBU7;O15519;Q86SE8;Q9UKN8;O75569;P31946;P35251;Q8IY92;Q9UJW3}  
11448 Pathogen[ Q85601] interacts with 9 human partners:{P31946;Q9UJW3;Q86SE8;Q9UBU7;Q9UKN8;Q8IY92;P35251;Q16082;O15519}  
11449 Pathogen[ P14079] interacts with 16 human partners:{Q16873;Q8IZ21;O15519;P20292;Q9UKN8;P59103;Q92542;Q9NZ42;O75569;Q9UJW3;P31946;P35251;Q16082;Q8WW43;Q9UBU7;Q8IY92}  
11450 Pathogen[ P03383] interacts with 6 human partners:{Q9UKN8;P31946;Q9UJW3;Q8IY92;Q16082;P35251}  
11451 Pathogen[ P03410] interacts with 17 human partners:{Q86SE8;Q8IZ21;O15519;O75569;Q9NZ42;P35251;Q8IY92;Q16873;Q16082;Q9UBU7;Q8WW43;Q92542;Q9UJW3;P20292;Q9UKN8;P59103;P31946}  
11452 Pathogen[ P14075] interacts with 7 human partners:{Q9UJW3;Q16082;P35251;Q9UKN8;P31946;P59103;Q8IY92}  
11453 Pathogen[ P0C206] interacts with 13 human partners:{P35251;Q9NZ42;Q92542;O15519;P31946;Q16082;Q9UBU7;Q9UKN8;Q86SE8;P20292;P59103;Q8IY92;Q9UJW3}  
11454 Pathogen[ P03363] interacts with 10 human partners:{Q16082;O15519;P31946;P35251;Q8IY92;Q9UBE0;Q9UJW3;Q86SE8;Q9UKN8;O75569}  
11455 [Cluster 1042]GO:0042552+P biological\_process [name] myelination [def] "The process in which myelin sheaths are formed and maintained around neurons. Oligodendrocytes in

the brain and spinal cord and Schwann cells in the peripheral nervous system wrap axons with compact layers of their plasma membrane. Adjacent myelin segments are separated by a non-myelinated stretch of axon called a node of Ranvier." [GOC

11456 Pathogen[ Q2Q067] interacts with 8 human  
partners: {Q03052;P49770;Q9UI10;P11161;Q15742;Q13506;Q13144;P17028}

11457 Pathogen[ P0C214] interacts with 8 human  
partners: {Q03052;Q15742;Q9UI10;P49770;Q13506;Q13144;P17028;P11161}

11458 Pathogen[ P03346] interacts with 11 human  
partners: {Q96PU8;Q03052;Q86WG5;Q15742;Q13506;P49770;P17028;Q13516;P11161;Q13144;Q9UI10}

11459 Pathogen[ Q85601] interacts with 8 human  
partners: {P17028;Q03052;Q13506;Q15742;Q13144;P49770;P11161;Q9UI10}

11460 Pathogen[ P14079] interacts with 10 human  
partners: {Q13506;Q86VE9;Q9UI10;Q15742;Q13144;P02686;P11161;Q86WG5;Q03052;P17028}

11461 Pathogen[ P03383] interacts with 7 human  
partners: {Q9UI10;Q15742;Q13506;Q13144;P49770;P11161;P17028}

11462 Pathogen[ P03410] interacts with 11 human  
partners: {Q86VE9;P02686;Q03052;P49770;P17028;Q15742;P11161;Q9UI10;Q13506;Q86WG5;Q13144}

11463 Pathogen[ P14075] interacts with 7 human  
partners: {Q13506;P11161;Q9UI10;P49770;P17028;Q15742;Q13144}

11464 Pathogen[ P0C206] interacts with 9 human  
partners: {P11161;Q96PU8;Q13144;Q15742;P49770;Q9UI10;Q03052;P17028;Q13506}

11465 Pathogen[ P03363] interacts with 11 human  
partners: {Q13516;Q9UI10;P17028;Q96PU8;Q13506;Q86WG5;Q15742;P49770;Q13144;Q03052;P11161}

11466 [Cluster 1043]GO:0006433+P biological\_process [name] prolyl-tRNA aminoacylation [def] "The process of coupling proline to prolyl-tRNA, catalyzed by prolyl-tRNA synthetase. In tRNA aminoacylation, the amino acid is first activated by linkage to AMP and then transferred to either the 2'- or the 3'-hydroxyl group of the 3'-adenosine residue of the tRNA." [GOC

11467 Pathogen[ Q2Q067] interacts with 1 human partners: {P07814}

11468 Pathogen[ P0C214] interacts with 2 human partners: {Q7L3T8;P07814}

11469 Pathogen[ P03346] interacts with 1 human partners: {P07814}

11470 Pathogen[ Q85601] interacts with 1 human partners: {P07814}

11471 Pathogen[ P14079] interacts with 2 human partners: {Q7L3T8;P07814}

11472 Pathogen[ P03383] interacts with 2 human partners: {P07814;Q7L3T8}

11473 Pathogen[ P03410] interacts with 2 human partners: {Q7L3T8;P07814}

11474 Pathogen[ P14075] interacts with 2 human partners: {Q7L3T8;P07814}

11475 Pathogen[ P0C206] interacts with 2 human partners: {P07814;Q7L3T8}

11476 Pathogen[ P03363] interacts with 2 human partners: {Q7L3T8;P07814}

11477 [Cluster 1044]GO:0051014+P biological\_process [name] actin filament severing [def] "The process in which an actin filament is broken down into smaller filaments." [GOC

11478 Pathogen[ Q2Q067] interacts with 1 human partners: {P06396}

11479 Pathogen[ P0C214] interacts with 1 human partners: {P06396}

11480 Pathogen[ P03346] interacts with 1 human partners: {P06396}

11481 Pathogen[ Q85601] interacts with 1 human partners: {P06396}

11482 Pathogen[ P14079] interacts with 2 human partners: {P09327;Q9Y6U3}

11483 Pathogen[ P03383] interacts with 1 human partners: {P06396}

11484 Pathogen[ P03410] interacts with 2 human partners: {P06396;Q9Y6U3}

11485 Pathogen[ P14075] interacts with 1 human partners: {P06396}

11486 Pathogen[ P0C206] interacts with 1 human partners: {P06396}

11487 Pathogen[ P03363] interacts with 1 human partners: {P06396}

11488 [Cluster 1045]GO:0060216+P biological\_process [name] definitive hemopoiesis [def] "A second wave of blood cell production that, in vertebrates, generates long-term hemopoietic stem cells that continuously provide erythroid, myeloid and lymphoid lineages throughout adulthood." [GOC

11489 Pathogen[ Q2Q067] interacts with 9 human  
partners: {O00470;Q01196;P12980;P17483;Q02447;P08047;P23769;Q13951;P14651}

11490 Pathogen[ P0C214] interacts with 7 human  
partners: {O00470;P23769;P14651;Q02447;P08047;P12980;Q13951}

11491 Pathogen[ P03346] interacts with 11 human  
partners: {P23769;Q86Z02;P17483;P08047;P12980;P17542;Q13951;O00470;Q01196;Q02447;P14651}

11492 Pathogen[ Q85601] interacts with 7 human  
partners: {P12980;Q13951;P23769;P08047;O00470;Q02447;P14651}

11493 Pathogen[ P14079] interacts with 6 human  
partners: {Q02447;P12980;O00470;Q13951;P23769;P14651}

11494 Pathogen[ P03383] interacts with 7 human  
partners: {O00470;P08047;P23769;P12980;Q02447;Q13951;P14651}

11495 Pathogen[ P03410] interacts with 7 human  
partners: {O00470;Q02447;P14651;P12980;Q13951;P23769;P08047}

11496 Pathogen[ P14075] interacts with 6 human  
partners: {Q13951;O00470;P23769;Q02447;P12980;P08047}

11497 Pathogen[ P0C206] interacts with 8 human  
partners: {O00470;Q13951;P14651;P12980;P17483;P08047;Q02447;P23769}

11498 Pathogen[ P03363] interacts with 7 human partners:{Q02447;P14651;P17483;Q13951;O00470;P12980;P08047}

11499 [Cluster 1046]GO:0019478+P biological\_process [name] D-amino acid catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of D-amino acids, the D-enantiomers of amino acids." [GOC

11500 Pathogen[ Q2Q067] interacts with 2 human partners:{Q8TEA8;Q96FN9}

11501 Pathogen[ P0C214] interacts with 2 human partners:{Q8TEA8;Q96FN9}

11502 Pathogen[ P03346] interacts with 2 human partners:{Q8TEA8;Q96FN9}

11503 Pathogen[ Q85601] interacts with 2 human partners:{Q8TEA8;Q96FN9}

11504 Pathogen[ P14079] interacts with 2 human partners:{Q8TEA8;Q96FN9}

11505 Pathogen[ P03383] interacts with 2 human partners:{Q96FN9;Q8TEA8}

11506 Pathogen[ P03410] interacts with 2 human partners:{Q8TEA8;Q96FN9}

11507 Pathogen[ P14075] interacts with 2 human partners:{Q96FN9;Q8TEA8}

11508 Pathogen[ P0C206] interacts with 2 human partners:{Q96FN9;Q8TEA8}

11509 Pathogen[ P03363] interacts with 2 human partners:{Q8TEA8;Q96FN9}

11510 [Cluster 1047]GO:0010826+P biological\_process [name] negative regulation of centrosome duplication [def] "Any process that decreases the frequency, rate or extent of centrosome duplication. Centrosome duplication is the replication of a centrosome, a structure comprised of a pair of centrioles and peri-centriolar material from which a microtubule spindle apparatus is organized." [GOC

11511 Pathogen[ Q2Q067] interacts with 2 human partners:{P06748;P41002}

11512 Pathogen[ P0C214] interacts with 2 human partners:{P41002;P06748}

11513 Pathogen[ P03346] interacts with 2 human partners:{P06748;P41002}

11514 Pathogen[ Q85601] interacts with 2 human partners:{P41002;P06748}

11515 Pathogen[ P14079] interacts with 2 human partners:{P41002;P06748}

11516 Pathogen[ P03383] interacts with 2 human partners:{P41002;P06748}

11517 Pathogen[ P03410] interacts with 2 human partners:{P06748;P41002}

11518 Pathogen[ P14075] interacts with 2 human partners:{P06748;P41002}

11519 Pathogen[ P0C206] interacts with 2 human partners:{P06748;P41002}

11520 Pathogen[ P03363] interacts with 2 human partners:{P06748;P41002}

11521 [Cluster 1048]GO:0046677+P biological\_process [name] response to antibiotic [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an antibiotic stimulus. An antibiotic is a chemical substance produced by a microorganism which has the capacity to inhibit the growth of or to kill other microorganisms." [GOC

11522 Pathogen[ Q2Q067] interacts with 10 human partners:{P10746;P14921;P41134;Q14790;Q8N5P1;P62714;Q96IZ7;P12757;Q00987;P33076}

11523 Pathogen[ P0C214] interacts with 9 human partners:{P12757;P14921;Q00987;P33076;Q96IZ7;P62714;P10746;P41134;Q14790}

11524 Pathogen[ P03346] interacts with 10 human partners:{P12757;P10746;P33076;P62714;Q00987;P14921;P41134;Q8N5P1;Q14790;Q96IZ7}

11525 Pathogen[ Q85601] interacts with 10 human partners:{P33076;P41134;P62714;P14921;P10746;Q14790;P12757;Q8N5P1;Q96IZ7;Q00987}

11526 Pathogen[ P14079] interacts with 10 human partners:{P33076;P10746;Q14249;Q00987;Q14790;P61158;Q96IZ7;Q8N5P1;P41134;P12757}

11527 Pathogen[ P03383] interacts with 5 human partners:{P33076;Q96IZ7;P14921;P62714;P12757}

11528 Pathogen[ P03410] interacts with 10 human partners:{P62714;P41134;Q96IZ7;P10746;Q8N5P1;P12757;Q00987;P33076;Q14249;P14921}

11529 Pathogen[ P14075] interacts with 5 human partners:{Q96IZ7;P33076;P12757;P14921;P62714}

11530 Pathogen[ P0C206] interacts with 11 human partners:{P10746;P14921;P33076;P41134;P12757;Q8N5P1;Q14790;P62714;Q96IZ7;Q00987;Q14249}

11531 Pathogen[ P03363] interacts with 7 human partners:{Q96IZ7;P62714;P12757;P14921;Q8N5P1;P41134;P33076}

11532 [Cluster 1049]GO:0008633+P biological\_process [name] activation of pro-apoptotic gene products [def] "The conversion of proteins that induce or sustain apoptosis to an active form." [GOC

11533 Pathogen[ Q2Q067] interacts with 14 human partners:{P31749;P55957;P30419;Q9BXH1;Q12933;P63167;Q13158;Q13794;Q14790;P84022;Q96LC9;P31946;Q15628;Q96FJ2}

11534 Pathogen[ P0C214] interacts with 16 human partners:{Q15628;Q92934;Q96LC9;Q13158;P84022;P55957;Q13794;Q9BXH1;Q12933;Q96FJ2;P30419;P48454;P31946;P31749;P63167;Q14790}

11535 Pathogen[ P03346] interacts with 14 human partners:{Q96FJ2;Q96LC9;Q13158;P55957;P84022;P10144;P31749;Q15628;P31946;Q14790;P48454;P63167;Q9BXH1;Q13794}

11536 Pathogen[ Q85601] interacts with 15 human partners:{P10144;Q96LC9;P31946;Q9BXH1;P31749;Q13158;Q14790;Q12933;P55957;Q15628;P84022;P30419;P48454;P63167;Q13794}

11537 Pathogen[ P14079] interacts with 17 human partners:{P48454;Q96FJ2;Q9BXH1;P45983;Q14790;Q92934;P31946;P30419;Q13794;Q12933;Q96LC9;Q13158;P63167;Q15628;P10144;P55957;P40305}

11538 Pathogen[ P03383] interacts with 12 human

11539 partners:{Q96LC9;P31946;Q96FJ2;P31749;P55957;Q13158;P84022;Q12933;Q15628;Q13794;Q9BXH1;P63167}  
Pathogen[ P03410] interacts with 17 human  
partners:{P84022;P10144;Q9BXH1;Q96LC9;P31749;Q92934;P30419;P63167;Q13794;P55957;Q13158;Q15628;P63098;P48454;Q12933;P40305;P31946}

11540 Pathogen[ P14075] interacts with 13 human  
partners:{P55957;Q96LC9;P31749;Q96FJ2;Q12933;Q9BXH1;Q13158;Q13794;Q15628;P31946;P40305;P84022;P63167}

11541 Pathogen[ P0C206] interacts with 17 human  
partners:{P84022;P10144;P40305;P31749;P30419;P63167;Q13158;Q9BXH1;Q12933;Q96LC9;P31946;Q92934;Q14790;Q15628;P48454;P55957;Q13794}

11542 Pathogen[ P03363] interacts with 13 human  
partners:{P55957;P63167;Q96LC9;Q13794;Q12933;P31946;Q13158;P10144;P31749;P84022;Q15628;Q9BXH1;Q96FJ2}

11543 [Cluster 1050]GO:0015671+P biological\_process [name] oxygen transport [def] "The directed movement of oxygen (O2) into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore." [GOC

11544 Pathogen[ Q2Q067] interacts with 3 human partners:{P01106;P68871;P69905}

11545 Pathogen[ P0C214] interacts with 8 human  
partners:{P02042;P69905;Q9NPG2;P68871;P69892;P02100;P69891;P01106}

11546 Pathogen[ P03346] interacts with 5 human  
partners:{P02100;Q9NPG2;P69905;P01106;P68871}

11547 Pathogen[ Q85601] interacts with 8 human  
partners:{P01106;P69905;P02042;P02100;P69892;P68871;Q9NPG2;P69891}

11548 Pathogen[ P14079] interacts with 13 human  
partners:{Q8WWM9;P02042;Q9NPG2;P69891;P02100;P09105;P69905;P02008;P68871;P01106;Q6B0K9;P02144;P69892}

11549 Pathogen[ P03383] interacts with 3 human partners:{P01106;P69905;P68871}

11550 Pathogen[ P03410] interacts with 13 human  
partners:{Q6B0K9;P02008;P02144;P02100;P01106;P09105;Q8WWM9;P68871;P02042;Q9NPG2;P69892;P69905;P69891}

11551 Pathogen[ P14075] interacts with 3 human partners:{P68871;P01106;P69905}

11552 Pathogen[ P0C206] interacts with 12 human  
partners:{P68871;Q6B0K9;P02100;P69892;P02008;P69891;Q9NPG2;P69905;P09105;P01106;P02042;Q8WWM9}

11553 Pathogen[ P03363] interacts with 3 human partners:{P69905;P68871;P01106}

11554 [Cluster 1051]GO:0006537+P biological\_process [name] glutamate biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of glutamate, the anion of 2-aminopentanedioic acid." [GOC

11555 Pathogen[ Q2Q067] interacts with 1 human partners:{094925}

11556 Pathogen[ P0C214] interacts with 1 human partners:{094925}

11557 Pathogen[ P03346] interacts with 1 human partners:{094925}

11558 Pathogen[ Q85601] interacts with 1 human partners:{094925}

11559 Pathogen[ P14079] interacts with 1 human partners:{094925}

11560 Pathogen[ P03383] interacts with 1 human partners:{094925}

11561 Pathogen[ P03410] interacts with 1 human partners:{094925}

11562 Pathogen[ P14075] interacts with 1 human partners:{094925}

11563 Pathogen[ P0C206] interacts with 1 human partners:{094925}

11564 Pathogen[ P03363] interacts with 1 human partners:{094925}

11565 [Cluster 1052]GO:0032868+P biological\_process [name] response to insulin stimulus [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an insulin stimulus. Insulin is a polypeptide hormone produced by the islets of Langerhans of the pancreas in mammals, and by the homologous organs of other organisms." [GOC

11566 Pathogen[ Q2Q067] interacts with 8 human  
partners:{Q04206;P05413;Q99966;P11161;P61244;P27986;Q16836;P18146}

11567 Pathogen[ P0C214] interacts with 13 human  
partners:{P61244;P00480;P35558;Q04206;Q16613;P40939;P05413;Q99966;P14618;P18146;P11161;P16118;P27986}

11568 Pathogen[ P03346] interacts with 9 human  
partners:{Q99966;P05413;Q16836;Q13322;Q04206;P61244;P11161;P18146;P27986}

11569 Pathogen[ Q85601] interacts with 12 human  
partners:{P18146;P05413;P00480;Q99966;Q16613;P16118;P27986;P14618;Q04206;P61244;Q16836;P11161}

11570 Pathogen[ P14079] interacts with 10 human  
partners:{P31751;Q9Y5U4;Q99966;P05413;Q16613;P11161;P00480;P81277;P61244;Q16836}

11571 Pathogen[ P03383] interacts with 7 human  
partners:{P27986;Q16836;Q16613;P18146;P11161;Q04206;P61244}

11572 Pathogen[ P03410] interacts with 13 human  
partners:{Q04206;P27986;P05413;P16118;Q9Y5U4;P61244;P00480;Q16613;Q16836;P81277;P18146;P11161;Q99966}

11573 Pathogen[ P14075] interacts with 8 human  
partners:{Q04206;P61244;P11161;P18146;Q16613;P16118;Q16836;P27986}

11574 Pathogen[ P0C206] interacts with 12 human  
partners:{P11161;Q16836;P27986;P18146;P05413;Q04206;P61244;Q99966;P16118;Q16613;P004

- 80;P14618}
- 11575 Pathogen[ P03363] interacts with 7 human  
partners: {Q16836;Q04206;P18146;P61244;P05413;P27986;P11161}
- 11576 [Cluster 1053]GO:0010976+P biological\_process [name] positive regulation of neuron projection development [def] "Any process that increases the rate, frequency or extent of neuron projection development. Neuron projection development is the process whose specific outcome is the progression of a neuron projection over time, from its formation to the mature structure. A neuron projection is any process extending from a neural cell, such as axons or dendrites (collectively called neurites)." [GOC
- 11577 Pathogen[ Q2Q067] interacts with 6 human  
partners: {Q9H2P0;O43439;Q15173;Q92562;Q15819;Q99689}
- 11578 Pathogen[ P0C214] interacts with 8 human  
partners: {Q92562;O43439;Q15819;Q15173;Q99689;P07093;P18846;Q9H2P0}
- 11579 Pathogen[ P03346] interacts with 11 human  
partners: {Q9H2P0;Q99689;Q92562;Q9H165;Q93045;Q496M5;O43439;P54257;Q15173;P18846;Q15819}
- 11580 Pathogen[ Q85601] interacts with 10 human  
partners: {Q15173;P18846;Q92562;O43439;Q9H2P0;Q9BVA0;Q99689;Q496M5;P07093;Q15819}
- 11581 Pathogen[ P14079] interacts with 10 human  
partners: {Q92562;P54257;Q15173;O43439;Q15819;Q9H2P0;Q93045;Q99689;O75366;Q9BVA0}
- 11582 Pathogen[ P03383] interacts with 5 human  
partners: {Q15173;Q99689;P18846;Q15819;O43439}
- 11583 Pathogen[ P03410] interacts with 9 human  
partners: {Q92562;O43439;Q15173;Q15819;P18846;P54257;Q93045;Q9BVA0;Q99689}
- 11584 Pathogen[ P14075] interacts with 5 human  
partners: {Q15819;Q15173;O43439;P18846;Q99689}
- 11585 Pathogen[ P0C206] interacts with 11 human  
partners: {Q496M5;Q9BVA0;Q92562;Q15173;P18846;Q99689;Q93045;Q15819;Q9H165;Q9H2P0;O43439}
- 11586 Pathogen[ P03363] interacts with 8 human  
partners: {Q9H2P0;O43439;Q93045;P18846;Q15173;P54257;Q99689;Q15819}
- 11587 [Cluster 1054]GO:0007067+P biological\_process [name] mitosis [def] "A cell cycle process comprising the steps by which the nucleus of a eukaryotic cell divides\_ the process involves condensation of chromosomal DNA into a highly compacted form. Canonically, mitosis produces two daughter nuclei whose chromosome complement is identical to that of the mother cell." [GOC
- 11588 Pathogen[ Q2Q067] interacts with 187 human  
partners: {P49454;Q12798;Q9Y6X3;Q96EE3;O60232;P83876;Q8IXJ6;Q9BTV5;Q9NYP9;P18754;Q14008;O75909;Q7Z4H7;Q9Y266;Q96NB3;P63172;Q16589;Q9NQW6;Q8IY18;Q6PJP8;Q14980;Q7Z5K2;Q9UJX3;Q9UJX5;Q13352;Q6PGQ7;Q7Z460;Q9UNSL1;O14974;Q95997;Q86XL3;P53675;P62826;Q99741;Q96R06;Q99708;O00762;Q8N0Z3;O94927;Q6P1K2;Q9HBM1;O75935;Q5EE01;P54274;Q8NDF8;A8MVW5;P42695;Q8NHV4;Q14511;Q5FBB7;O95347;Q13257;Q86WB0;Q8N2Z9;A8MT69;Q9UJT9;Q9UPV0;Q03188;Q9NVX0;Q66LE6;Q9NXR1;Q9C099;Q53HL2;O43684;Q8NBT2;Q9H981;P63279;Q9P258;Q9NYG5;Q8NHF4;P30304;Q9H1A4;A6NKF1;P14635;Q99871;Q86XI2;Q9NQS7;Q14203;O43823;Q9UJX2;Q9Y448;O43264;Q15003;Q29RF7;Q7Z7K6;P30307;Q9UM13;O43768;Q96BT3;Q08J23;Q96BT3;Q13561;Q6PGN9;Q9BZD4;Q96DE5;O43482;O96017;P51959;Q14978;Q00610;O76095;Q86T82;Q12834;P41002;P69208;Q15021;P50748;Q96EP1;P0CW71;O95067;Q9BT25;Q96Q89;Q9H6D7;Q99618;Q96MT8;Q9NTI5;P78396;P56211;Q9H410;Q5TB80;Q8NHF3;P53041;Q8NHZ8;Q9ULW0;P20248;Q02241;O60216;O75665;O00139;Q9H4H8;Q53EZ4;O75122;O76064;Q8IX90;Q8NG31;Q9UM11;Q9UJX4;Q93008;Q9UPY8;Q9Y6D9;Q9BVW5;Q9UKT4;Q86U86;Q96BD8;Q9UI95;Q9H900;O95271;P41208;Q96IY1;Q9NR09;Q96IK1;O95619;Q93008;O14974;Q8IZT6;Q9ULG1;Q14980;Q9BXS6;Q69YH5;Q96MF7;Q14683;Q8WVM7;Q49MG5;P30305;P24941;Q9UJX6;O95229;O14777;Q9NVX0;P60006;Q9BPX3;Q96CS2;Q8N3U4;P51808;Q13042;Q15691;Q9H081;Q8WVK7;Q8TAP9;Q9Y2Z0;Q9BS18;Q9BTE3;Q66K89;Q96FF9;O15392;Q96EA4;Q68CZ6;Q6P0N0;Q9BRK4}
- 11589 Pathogen[ P0C214] interacts with 183 human  
partners: {Q9UJX6;O43768;Q9H081;Q9BPX3;Q8IY18;O43684;O94927;P20248;Q8TAP9;Q13257;Q86XI2;O75935;P30307;Q6P0N0;Q29RF7;Q96BT3;Q14008;Q9BS18;O00762;O75909;Q53HL2;O43264;Q8NDF8;P41002;Q02241;Q15003;Q9BRK4;Q14203;Q7Z4H7;P51959;Q9UJP4;Q96EA4;Q96R06;Q9BXS6;Q5EE01;Q9C099;P50748;A8MVW5;Q9UJX5;Q8NHV4;P42695;Q99708;Q9BVW5;Q86WB0;O95229;Q66LE6;Q96E3;P63279;Q96MT8;O60232;Q9ULG1;P14635;Q8NBT2;P69208;P51808;O00139;Q9NVM9;Q15691;Q9UJX2;Q6P1K2;Q9Y266;Q69YH5;Q9UI95;Q96FF9;O95347;O95619;Q93008;O14974;Q96CS2;Q9BTE3;Q14980;Q9UPV0;Q8N2Z9;Q6PGN9;Q6PJP8;Q03188;O75122;O43482;P53675;Q96Q89;Q12798;P56211;P21127;Q9H1A4;Q96017;Q14978;Q96BD8;Q9HBM1;Q9Y2Z0;Q9P258;P78396;Q9NYP9;Q08J23;Q9BT25;Q96MF7;Q8NHZ8;Q86XL3;Q12834;P0CW71;Q9ULW0;Q13352;P83876;Q53EZ4;O95067;Q9UNSL1;O43823;P24941;Q99618;Q8NHF3;P30305;Q7Z7K6;P53041;Q86YI8;Q99871;Q14511;P41208;Q96NB3;P62826;Q9H410;O75665;O15392;Q9H6D7;Q9UPY8;Q7Z5K2;Q8IX90;Q14683;Q8WVM7;Q8NG31;Q9UJX4;P63172;Q86U86;Q7Z460;Q9H900;A6NKF1;Q5FBB7;Q8IXJ6;Q9BTV5;P60006;Q9Y6X3;Q9NQS7;Q9NR09;Q9UJX3;Q68CZ6;Q8N0Z3;Q8IYB7;O95997;Q8NHF4;Q9UM11;Q9NQR1;Q9NXR1;O95271;Q96IY1;P49454;Q9NVX0;P18754;Q9NTI5;Q8IZT6;Q9Y448;O76064;P30304;Q13561;Q5TB80;Q9UJT9;Q9NYG5;O60216;Q6PGQ7;Q66K89;Q9UM13;Q9BZD4;Q9UKT4;Q9Y6D9;Q15021;Q49MG5;P54274;Q96EP1;Q99741;Q9H981;Q8WVK7;Q96DE5;Q13042;O14777;Q16589}
- 11590 Pathogen[ P03346] interacts with 205 human  
partners: {Q08J23;Q9NVM9;Q66LE6;Q9Y6D9;Q8N2Z9;Q9BT25;Q5FBB7;Q9BXS6;Q9H6D7;Q16589;P78396;Q8NHF4;Q9NRZ9;O76064;O95229;Q9Y2Z0;Q9P2F7;Q96MF7;Q5XG87;Q9NQW6;O96017;P60006;Q14511;O15392;O43684;Q9UM11;Q96EE3;Q8N3U4;Q96NF9;Q7Z5K2;Q29RF7;Q99871;Q7Z4H7;P83876;Q9BS18;Q93008;Q9UJT9;Q9NQR1;P21127;A8MT69;O75935;Q96R06;O00139;P51808;Q69YH5;Q15691;Q5EE01;P54274;A8MVW5;Q99708;Q9ULG1;Q8NHV4;P24941;P30304;Q86WB0;Q9UNSL1;O95347;O43264;Q9NV

- R1;Q53HL2;O60232;Q9UM13;Q8IXJ6;Q9NX01;P69208;P18754;P63279;O43482;Q96IY1;Q9NYG5;Q86U86;Q6P0N0;Q9P258;Q96IK1;Q14203;Q9Y5K6;Q86XI2;Q8NHF3;P41002;O95067;Q9UI95;P56211;Q86T82;Q66K89;O95997;Q8N0Z3;P62826;Q12834;P30305;Q8IYB7;Q14980;O43768;Q9BRK4;Q9UJX6;Q15555;Q5TB80;Q9Y266;P41208;O14777;Q9NVX0;Q96DE5;Q14978;O75665;Q9ULW0;Q496M5;Q96EA4;A6NKF1;Q9BPX3;P14635;Q13042;Q15021;Q9UJX5;P0CW71;Q14683;Q15019;O00762;Q14008;Q9UJX2;Q8TD19;Q68CZ6;P20248;Q9BTV5;Q53EZ4;Q9NQS7;Q9NTI5;Q96Q89;Q9H981;P53675;Q9Y6X3;Q9UKT4;Q6PGN9;Q7Z7K6;P53041;Q9H081;Q8NBT2;Q9HBM1;P63172;Q9UJX3;Q8NHZ8;Q9H4H8;Q9H410;P42695;P30622;O75122;Q9H1A4;Q02241;Q9C099;Q8TAP9;Q8WVM7;Q8NDF8;Q03188;O75909;Q8IX90;O95619;Q9UJX4;P50748;Q96PY6;Q96NB3;Q96CS2;O95271;Q9NR09;Q12798;Q9Y448;Q6PJP8;Q9P2J3;Q86YI8;Q8IZT6;Q7Z460;P51959;O15182;Q8NG31;O94927;O49MG5;Q86XL3;O76095;Q9UPY8;Q9UJP4;Q8IY18;Q9NYP9;Q15003;O14974;Q99741;Q9BVW5;Q6P1K2;Q60216;Q96BD8;Q6PGQ7;O43823;O14965;Q9BZD4;Q99618;Q00610;Q96BT3;Q9BTE3;Q13352;Q9H0E7;Q8WVK7;Q13257;P30307;P49454;Q96EP1;Q9H900;Q9UPV0;Q96MT8;Q13561}
- 11591 Pathogen[ Q85601] interacts with 203 human partners: {Q53EZ4;Q9UJX2;Q9NVM9;Q8NBT2;O95619;P49454;Q14978;Q6PGN9;Q9Y5T5;P53675;O95229;Q96DE5;Q9UJX6;Q00610;Q9BTE3;Q7Z7K6;Q9H0E7;Q02241;Q8NHF4;Q9NQW6;O96017;Q8NHF3;Q03188;P51808;Q9H900;O95347;Q14008;O75909;Q96EE3;Q9Y2Z0;Q9Y5K6;Q9H6D7;Q9BT25;O15182;Q99871;Q9NQS7;Q8IY18;Q9UI95;Q9NQR1;Q9H081;Q96PY6;Q12798;Q9P258;Q96IK1;Q96BT3;Q9BS18;O75935;Q7Z4H7;Q9UKT4;Q5EE01;Q9NVX0;Q8NHZ8;A8MVW5;Q99708;Q8NHV4;P60006;P30622;Q49MG5;Q9H1A4;P62826;Q86WB0;Q16589;O43264;P42695;Q53HL2;Q9BXS6;O60232;Q9C099;Q8NG31;O15392;P30304;Q14203;Q66LE6;Q96EA4;Q9ULW0;P51959;P41002;O60216;Q8WVM7;Q8IZT6;P63172;P56211;Q9NTI5;A6NKF1;Q29RF7;Q93008;Q96R06;Q9UJP4;P63279;Q12834;Q8IYB7;Q13257;Q8TAP9;Q7Z5K2;O75122;P30305;O14965;Q9Y266;Q9UPV0;Q9BPX3;Q86XL3;Q96Q89;Q13352;Q15555;Q9H981;P30307;O75665;Q5XG87;O43768;O76064;Q9Y448;P14635;Q8IXJ6;Q13042;Q9UJX5;Q9NYP9;Q14683;Q6PGQ7;Q08J23;Q9BZD4;Q99618;Q9UM13;Q9BRK4;Q15691;Q96MT8;Q96BD8;Q9Y6D9;Q9UJT9;A8MT69;Q9NYG5;P20248;Q5TB80;P78396;P53041;O00762;Q9BVA0;Q86YI8;Q8N2Z9;Q9UJX3;Q9ULG1;Q9H4H8;O94927;Q9H410;Q8NDF8;Q8IX90;Q8N3U4;Q86T82;Q14980;Q9UJX4;Q9P2J3;Q9UM11;P50748;Q8WVK7;O76095;Q96IY1;P83876;Q96CS2;Q9BTV5;P18754;Q9NR09;Q9NX01;O14974;Q6PJP8;P21127;Q7Z460;O43823;Q66K89;Q86U86;Q86XI2;Q8N0Z3;O95067;Q96EP1;Q96NB3;Q496M5;Q9NXR1;O95271;Q9UPY8;Q99741;Q14511;Q6P0N0;Q15003;Q96FF9;P69208;O43482;Q6P1K2;P24941;Q9Y6X3;O14777;O43684;O00139;Q9HBM1;Q15021;Q68CZ6;Q69YH5;Q5FBB7;P51955;O95997;P54274;Q9BVW5;Q96MF7;Q13561;P41208;Q9UNS1}
- 11592 Pathogen[ P14079] interacts with 189 human partners: {Q15691;Q14980;Q6P0N0;P51959;P54274;Q9NQW6;Q96IY1;Q03188;Q6PGQ7;Q9UPY8;Q9ULG1;Q5EE01;Q96KR4;Q9BTV5;P63279;Q00610;P63172;O43482;Q96MF7;P30307;P53041;Q9UKT4;O43768;Q7Z460;P51808;Q8IX90;Q96BT3;Q9HBM1;Q9H4H8;Q96R06;P78396;O95271;O95229;Q8NBT2;Q9UJX3;O76095;Q99871;Q96FF9;O43823;Q69YH5;Q9H1A4;Q02241;Q9UJX5;O14974;Q9NVX0;Q96NB3;Q9BZD4;Q5XG87;Q86U86;O15392;P83876;O60216;P69208;Q9Y266;O95067;Q9NVM9;Q8NG31;A8MVW5;Q9ULW0;Q9H900;Q86XL3;Q15003;Q9BTE3;Q9Y448;P56211;P30304;P60006;Q9BXS6;Q5FBB7;Q9H410;Q99618;P9CWR71;Q8N0Z3;Q9NTI5;Q9NYG5;Q96IK1;Q99741;Q8N3U4;Q9H981;Q8IYB7;Q9661;P14635;Q8NHZ8;P51955;Q8NHV4;O95347;Q9UM11;Q96Q89;Q99708;Q9UM13;Q12798;Q13042;O00139;Q15555;Q96DE5;Q66K89;P41002;Q8N2Z9;Q13257;Q96EA4;Q9NQR1;Q8WVK7;Q66LE6;Q9H6D7;Q8NHF3;Q96EE3;O75909;Q08J23;A6NKF1;Q9P258;Q13561;O43264;Q9NX01;Q49MG5;A8MT69;Q9NYP9;P21127;Q8N0Z3;Q9C099;Q86YI8;O95997;Q9UJX6;Q86WB0;Q6PGN9;Q8IXJ6;Q5TB80;Q53HL2;Q86Y91;Q8TAP9;P41208;Q9Y5K6;P20248;Q9NQS7;Q9BPX3;Q86XI2;Q8IY18;Q9Y6X3;Q9UQE7;Q7Z4H7;P49454;P53675;Q16589;Q9BT25;O00762;O15182;P30305;Q9UJP4;Q68CZ6;O75665;P62826;Q9UJT9;Q6PJP8;Q29RF7;Q9NXR1;P50748;Q15021;O95619;Q7Z5K2;Q96BD8;Q9BVA0;O75122;Q14683;O14965;Q9UNS1;Q9BRK4;Q13352;O75935;Q9Y2Z0;P42695;O60232;Q9UJX4;P18754;O14777;Q9BS18;Q14203;Q8IZT6;O43684;Q53EZ4;O94927;Q7Z7K6;P30622;Q6P1K2;Q14978;Q9UPV0;Q9H081;Q14008;Q9BVW5;Q96CS2}
- 11593 Pathogen[ P03383] interacts with 168 human partners: {Q14683;Q9BRK4;Q86U86;Q9UNS1;Q96EE3;Q13257;P41002;P30307;Q8NHZ8;Q9NQS7;Q03188;Q14978;P49454;Q8N0Z3;Q8N2Z9;Q8NHF4;Q7Z460;Q9BVW5;Q86XI2;Q96BD8;Q00610;Q96DE5;Q02241;Q8NBT2;Q8N3U4;Q14008;P51808;Q9H900;Q15691;P83876;Q9NYG5;Q9UJX6;Q8TD19;Q9NVX0;Q9H981;O43264;Q5FBB7;Q9UI95;Q9P258;Q9BXS6;P63172;Q14203;Q7Z4H7;Q5EE01;A8MVW5;P41208;Q8NHV4;Q9BTE3;P30304;Q9NYP9;Q9NVM9;Q86WB0;O00762;Q6PJP8;O95347;Q12798;Q8NDF8;O60232;Q9Y6X3;Q9UKT4;P69208;Q9H1A4;P53675;Q7Z7K6;Q13352;Q96EA4;O60216;Q96MF7;Q13042;P14635;Q96MT8;Q66K89;Q96BT3;P78396;Q96R06;P21127;A6NKF1;P62826;Q99618;Q12834;Q6PGN9;Q99871;Q15003;Q5TB80;Q96CS2;P60006;Q53HL2;O94927;O95229;Q9UM13;O43768;P51959;O43684;P24941;P18754;P0CW71;Q6PGQ7;Q14511;Q9BZD4;Q9UM11;Q08J23;O75909;Q68CZ6;Q9BS18;O95067;Q8WVK7;Q96Q89;A8MT69;Q9BT25;P53041;O75935;Q86YI8;Q9HBM1;Q9H4H8;Q9Y266;Q9H410;Q29RF7;O14965;Q9H081;Q8IX90;Q96FF9;Q96IY1;Q14980;Q99708;Q9UJX4;Q9UPV0;Q8NG31;Q96PY6;Q96NB3;Q6P1K2;Q9UJX5;Q9NR09;O95997;Q9Y448;Q9H6D7;Q9ULW0;Q13561;Q9C099;O14777;Q6P0N0;Q96EP1;Q49MG5;Q9UJX2;P56211;O76095;O95619;O95271;Q9NTI5;Q9UJX3;O75665;Q9NQR1;Q53EZ4;Q9UPY8;P63279;Q69YH5;P20248;O43482;Q9BPX3;Q15021;P54274;Q8NHF3;Q99741;Q7Z5K2;Q8TAP9;O96017;Q9Y6D9;P50748;Q8WVM7}
- 11594 Pathogen[ P03410] interacts with 194 human partners: {Q03188;Q00610;Q9UKT4;Q9BS18;Q9Y6G9;P83876;Q8IX90;O75665;Q7Z460;Q86Y91;O15392;Q29RF7;Q8IXJ6;O95619;Q9H981;Q96Q89;Q16589;Q86WB0;Q9UI95;P51808;Q99708;Q9NX01;O43684;P30622;Q9H6D7;Q13561;Q9H1A4;Q96NB3;O00139;Q9Y2Z0;Q99618;Q9NXR1;Q66K89;Q9H410;Q8NG31;Q53HL2;Q86U86;Q8NHF4;P54274;Q9UQE7;Q96BT3;Q9NVM9;Q7Z5K2;Q9UJX4;Q9NYG5;Q14008;Q9BVW5;Q9UM13;Q9BTE3;Q14978;P42695;O15182;Q9ULG1;P63172;P50748;Q9NYP9;Q8NHZ8;O95067;Q15003;Q12798;Q96R06;O95997;Q9BXS6;Q9NQW6;Q8TAP9;Q6P0N0;O60216;Q68CZ6;Q96CS2;P41002;Q5EE01;Q9BTV5;O43264;Q96MF7;Q8IZT6;Q7Z7K6;P49454;Q9Y5K6;O95347;P78396;O14965;Q96EA4;Q9P2J3;Q9NR09;Q8NHV4;Q8N0Z3;Q96IY1;Q96KR4;Q9Y448;Q14980;P14635;Q15555;Q9UM11;Q14511;Q15691;Q13042;P62826;P51959;Q6PJP8;P30304;P24941;Q9NQR1;P0CW71;O95271;O43482;Q6P1K2;Q9NVX0;Q9NTI5;O75909;Q14683;O60232;Q96DE5;Q9BZD4;O14974;Q8WVK7;Q69YH5;Q9BVA1;O96017;Q9HB

- M1;Q5XG87;A8MVW5;P53041;Q6PGQ7;Q96EE3;Q9UJX5;O75935;Q9UPY8;Q8N3U4;Q53EZ4;Q8IYB7;O94927;P20248;O43768;Q12834;Q8NBT2;Q5FBB7;Q08J23;Q9UJX3;Q9ULW0;P69208;Q9UNS1;O00762;Q5TB80;Q8IY18;P63279;A8MT69;Q9UPV0;Q8WVM7;Q9H900;Q9Y266;O95229;Q9H081;Q9UJP4;Q96FF9;O76095;Q9C099;P60006;Q66LE6;P18754;Q6PGN9;A6NKF1;Q99871;Q96BD8;P30305;P53675;Q9UJT9;Q9BPX3;Q86XI2;Q9H4H8;O43823;Q9P258;P41208;P56211;O75122;Q8NFH3;Q9BT25;P30307;Q86XL3;Q9UJX6;Q96EP1;Q49MG5;Q7Z4H7;Q13352;Q9BVA0;O14777;Q14203;Q02241;Q15021;Q8N2Z9;Q13257;Q9NQ S7;Q96IK1;Q99741;Q86YI8}
- 11595 Pathogen[ P14075] interacts with 172 human  
partners: {Q96MT8;A8MT69;Q99871;Q14511;Q9BS18;P60006;Q9Y266;Q13042;O95067;P24941;Q14683;Q9Y6D9;Q02241;Q9H081;Q8NDF8;Q7Z4H7;Q49MG5;O76095;Q9UKT4;Q9NQS7;Q9Y6X3;Q8WVM7;P51959;P14635;Q9UM11;Q96R06;P51808;Q8WVK7;Q5EE01;P53675;Q86XI2;A8MVW5;Q8NHV4;Q7Z460;Q13561;Q86WB0;Q96IY1;Q13257;Q68CZ6;O95619;Q9BXS6;O60232;Q9NQR1;O95997;O43684;Q12798;Q96BD8;Q9UI95;P63279;P63172;O14777;Q9UJX2;Q9BT25;Q96FF9;O95229;O95347;Q9BVW5;Q69YH5;P78396;Q9UJX6;Q8N2Z9;Q8NHZ8;Q9BTE3;Q9UPV0;P69208;Q9ULW0;P54274;Q9UPY8;Q96DE5;O00762;Q96EA4;O00139;O43768;Q9P258;O75935;Q9UJX5;O96017;Q86U86;P0CW71;Q7Z5K2;O14965;Q15691;Q9NY P9;Q5TB80;Q96EE3;Q9C099;P20248;P62826;Q96BT3;Q96CS2;P53041;P21127;Q86YI8;Q5FBB7;Q9H4 H8;P30304;Q9H410;P41208;Q8IX90;Q66K89;Q7Z7K6;A6NKF1;Q8NFH3;Q9UJX4;Q9H900;Q53EZ4;Q9BR K4;Q53HL2;Q29RF7;Q6PGN9;Q9NVX0;Q9UNS1;P50748;P18754;Q9NR09;Q96PY6;Q99741;O94927;P838 76;Q9H981;O75665;Q9HBM1;Q9H1A4;P56211;Q6P1K2;Q14203;Q15003;Q13352;Q14008;Q99618;P410 02;Q96MF7;Q08J23;O43264;Q8TAP9;O95271;O43823;Q9UM13;Q14980;Q9UQ88;O75909;Q03188;Q8NG 31;Q9UJX3;O43482;Q9NVM9;Q9NTI5;Q9NYG5;P49454;Q6P0N0;Q6PJP8;Q99708;Q96IK1;Q9BPX3;Q9H6 D7;Q96Q89;P30307;Q8NFH4;Q9Y448;O60216;Q6PGQ7;Q8NBT2;Q9BZD4;Q12834;Q14978;Q00610;Q150 21;Q96NB3;Q8N0Z3;Q96EP1;Q8N3U4;Q8TD19}
- 11596 Pathogen[ P0C206] interacts with 214 human  
partners: {O95271;Q9UNS1;Q96EE3;Q9HBM1;Q9UJT9;O15182;Q9P2N7;O60216;Q9BPX3;Q08J23;Q5XG 87;Q9Y2Z0;Q9BTE3;P83876;P53675;P69208;Q496M5;Q9BVA0;Q9C099;Q14008;Q96Q89;Q9UJX3;Q9H9 00;Q96KR4;Q99708;Q15019;P30307;Q9H981;O96017;Q9Y5T5;Q9Y6D9;Q93008;Q9ULW0;P18754;P519 55;Q86XL3;Q96EP1;Q9UJX5;Q9NQW6;P56211;Q9UJX2;Q9BTV5;Q6PJP8;Q66LE6;Q15691;O95997;Q9H0 81;O14777;Q7Z5K2;P42695;Q9Y448;Q99618;Q9BT25;Q29RF7;P53041;Q6PGQ7;Q9NYP9;Q15021;Q96P Y6;Q00610;Q9BZD4;P20248;Q9UPV0;Q8IZT6;Q9H410;P30305;P62826;Q6PGN9;P49454;Q16589;Q8TD 19;P30622;Q86U86;Q99741;Q13257;Q9HOE7;Q02241;Q9Y6X3;Q8IX90;Q9NVX0;Q9UJF9;Q9UJP4;Q9BS 18;O14974;Q15003;P30291;O75122;Q86Y91;Q9UKT4;Q5EE01;P54274;Q6P1K2;Q9H1A4;Q8NBT2;A8MV W5;Q96BD8;A6NKF1;Q96NB3;Q9NYG5;Q9UJX4;Q86XI2;Q9UPY8;Q9UQE7;Q9NR09;O95347;Q9BVW5;O956 19;Q9ULG1;P51959;P51808;Q14683;Q96IY1;Q9P2J3;Q9NQR1;Q9Y6G9;Q7Z7K6;Q96BT3;Q8NDF8;O437 68;Q96CS2;Q13352;Q7Z4H7;Q5FBB7;Q9UM11;Q86T82;O94927;Q53HL2;O00762;O43482;Q96MF7;Q49M G5;Q8NHV4;O15392;Q6P0N0;O00139;Q9NTI5;P0CW71;Q8IXJ6;Q9NX01;Q9P258;O75665;Q9UJX6;Q135 61;O75909;Q8NFH4;P30304;Q86YI8;O43823;Q9Y5K6;Q69YH5;P78396;Q9H6D7;Q99871;P41208;Q8N3 U4;Q9NRZ9;Q86WB0;Q8N0Z3;O95067;Q9NXR1;Q96EA4;P21127;Q96DE5;Q8TAP9;Q8N2Z9;Q16181;Q155 55;Q12798;P14635;P60006;Q9BXS6;O43684;O14965;Q14980;Q9UM13;Q96MT8;Q7Z460;Q9NVM9;Q9NQ S7;Q14203;O75935;Q66K89;Q8NFH3;P63172;Q13042;Q8IYB7;O76064;Q8IY18;P50748;Q9BPX3;Q9BW 19;O43264;P24941;Q68CZ6;Q8WVM7;Q9NTJ3;Q8NG31;Q9Y266;P41002;Q5TB80;O60232;Q14511;Q128 34;Q8WVK7;Q9UI95;Q99640;Q8NHZ8;A8MT69;Q03188;Q99986;O76095;Q14978;Q9H4H8;O95229}
- 11597 Pathogen[ P03363] interacts with 190 human  
partners: {Q9UJX2;Q9NYG5;Q96EA4;Q14978;O95619;A6NKF1;Q69YH5;Q9BZD4;Q96IK1;Q13042;P494 54;Q96EP1;Q6P0N0;Q96IY1;Q6P1K2;Q9NYP9;Q7Z7K6;P69208;Q16589;Q9Y6D9;Q08J23;Q86WB0;Q9H0 81;Q9H981;Q9ULG1;Q8NFH4;O00762;Q15021;P21127;O95229;Q96DE5;Q9BRK4;Q96MT8;Q96BD8;Q9BT E3;Q9UJT9;Q8NHV4;Q9NQW6;O60232;P20248;Q13561;O95347;Q8NFH3;Q9P2N7;Q86XI2;Q14980;Q9Y2 66;Q15691;Q9NX01;O75909;Q9ULW0;O43264;Q8NBT2;Q9HC35;P53041;Q8NHZ8;Q9H6D7;Q02241;Q8N2 Z9;Q9P258;Q9UJX3;Q9BT25;Q66K89;Q9H4H8;Q9C099;Q53HL2;Q00610;Q8WVK7;Q9BXS6;Q9H410;P249 41;P50748;Q9UJX5;Q6PGQ7;P41208;Q49MG5;Q14807;Q8IX90;P41002;Q9UJX6;Q5FBB7;Q66LE6;Q9UM 11;Q9BS18;Q9UJX4;O96017;Q9H900;P30304;Q5EE01;Q6PGN9;A8MVW5;Q99708;P30622;Q9UPY8;Q96R 06;Q53EZ4;P60006;Q68CZ6;O43684;O95067;Q12798;O94927;Q9NR09;P63172;Q8IYB7;Q14511;P542 74;Q9BVW5;Q9NQS7;Q8NDF8;Q99741;Q9NVX0;Q86T82;P78396;Q8WVM7;Q9UNS1;O75935;Q9HBM1;Q7Z4 60;Q9UKT4;O43768;O95271;Q9BPX3;Q9H1A4;Q9UI95;Q86U86;Q03188;Q8NG31;Q9Y2Z0;Q13257;Q8N0 Z3;P63279;Q96CS2;Q99871;P83876;Q6PJP8;P51808;Q29RF7;Q99618;O76095;P0CW71;O14974;Q9UP V0;Q9P2J3;P42695;Q96BT3;Q9UM13;O15182;P51959;Q9UJP4;Q9NVM9;P56211;Q9NTI5;Q8N3U4;O147 77;Q9NQR1;Q96Q89;O95997;Q12834;Q14008;Q9Y448;O43482;Q96FF9;Q9Y6X3;Q9NXR1;O00139;P187 54;P30307;Q7Z5K2;P62826;Q8IY18;Q13352;Q7Z4H7;P53675;Q5TB80;Q96NB3;Q96MF7;Q93008;Q86X L3;Q8IZT6;Q14683;Q14203;Q9Y5K6;Q9BTV5;Q15003;A8MT69;Q15555;Q8TAP9;O60216;O75665}
- 11598 [Cluster 1055]GO:0006096+P biological\_process [name] glycolysis [def] "The chemical reactions and pathways resulting in the breakdown of a monosaccharide (generally glucose) into pyruvate, with the concomitant production of a small amount of ATP. Glycolysis begins with phosphorylation of a monosaccharide (generally glucose) on the sixth carbon by a hexokinase, and ends with the production of pyruvate. Pyruvate may be converted to ethanol, lactate, or other small molecules, or fed into the TCA cycle."  
[GOC]
- 11599 Pathogen[ Q2Q067] interacts with 20 human  
partners: {Q9ULD0;P07195;Q8N0Y7;P13929;P10515;P19367;A6NNW6;P05062;P60174;P09972;P186 69;P04406;P15259;Q9BYZ2;P07738;P06744;O14556;P00338;P06733;P07864}
- 11600 Pathogen[ P0C214] interacts with 24 human  
partners: {P11177;P07864;P15259;Q6ZMR3;O14556;P05062;O60825;P13929;A6NNW6;P14618;P091 04;P19367;Q9ULD0;P06733;P09972;Q8N0Y7;P16118;P60174;P07738;Q9BYZ2;P10515;P04406;P005 58;P07195}
- 11601 Pathogen[ P03346] interacts with 19 human  
partners: {P09972;P04406;A6NNW6;P13929;P07738;P19367;Q9ULD0;P60174;P06733;P18669;O145 56;Q8N0Y7;P00338;P07195;P15259;P06744;P05062;P10515;Q9BYZ2}

11602 Pathogen[ Q85601] interacts with 23 human partners: {P60174;Q6ZMR3;P18669;O60825;P06733;P06744;P05062;P16118;P15259;P07864;O14556;P14618;P13929;P09972;Q9BYZ2;P07195;P04406;Q8N0Y7;P07738;P10515;Q9ULD0;P00338;P19367}

11603 Pathogen[ P14079] interacts with 17 human partners: {P15259;P00338;P09972;A6NNW6;P06744;P06733;P07738;P07195;Q6ZMR3;P07864;P13929;P10515;P18669;Q9BYZ2;Q8N0Y7;Q9ULD0;P04406}

11604 Pathogen[ P03383] interacts with 18 human partners: {A6NNW6;P19367;P00338;Q9BYZ2;P07864;P18669;P09972;Q9ULD0;P07738;P06744;O14556;P07195;Q6ZMR3;P04406;Q8N0Y7;P10515;P06733;P15259}

11605 Pathogen[ P03410] interacts with 20 human partners: {Q9BYZ2;O14556;P06744;Q9ULD0;P16118;P06733;Q6ZMR3;P05062;P07195;P09972;P07738;P00338;Q8N0Y7;P15259;P04406;P18669;P13929;P07864;A6NNW6;P10515}

11606 Pathogen[ P14075] interacts with 18 human partners: {P06733;P06744;P18669;P19367;P07195;P16118;P04406;A6NNW6;P07864;P10515;Q9ULD0;P00338;P09972;P15259;Q9BYZ2;P07738;O14556;Q8N0Y7}

11607 Pathogen[ P0C206] interacts with 24 human partners: {P06733;P07195;P05062;Q6ZMR3;P07864;P60174;Q9ULD0;A6NNW6;P19367;P06744;O14556;P04406;Q8N0Y7;O60825;P09972;P16118;Q9BYZ2;P07738;P00338;P10515;P13929;P18669;P14618;P15259}

11608 Pathogen[ P03363] interacts with 12 human partners: {P06744;P18669;P06733;Q9ULD0;P09972;Q9BYZ2;A6NNW6;Q8N0Y7;P04406;P10515;O14556;P15259}

11609 [Cluster 1056]GO:0000415+P biological\_process [name] negative regulation of histone H3-K36 methylation [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the covalent addition of a methyl group to the lysine at position 36 of histone H3." [GOC

11610 Pathogen[ Q2Q067] interacts with 1 human partners: {Q6W2J9}

11611 Pathogen[ P0C214] interacts with 1 human partners: {Q6W2J9}

11612 Pathogen[ P03346] interacts with 1 human partners: {Q6W2J9}

11613 Pathogen[ Q85601] interacts with 1 human partners: {Q6W2J9}

11614 Pathogen[ P14079] interacts with 1 human partners: {Q6W2J9}

11615 Pathogen[ P03383] interacts with 1 human partners: {Q6W2J9}

11616 Pathogen[ P03410] interacts with 1 human partners: {Q6W2J9}

11617 Pathogen[ P14075] interacts with 1 human partners: {Q6W2J9}

11618 Pathogen[ P0C206] interacts with 1 human partners: {Q6W2J9}

11619 Pathogen[ P03363] interacts with 1 human partners: {Q6W2J9}

11620 [Cluster 1057]GO:0051591+P biological\_process [name] response to cAMP [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a cAMP (cyclic AMP, adenosine 3',5'-cyclophosphate) stimulus." [GOC

11621 Pathogen[ Q2Q067] interacts with 12 human partners: {P01100;P22392;Q04206;P30279;P05062;P36956;P21953;Q99966;P27986;P15407;P42224;Q86X55}

11622 Pathogen[ P0C214] interacts with 16 human partners: {P15407;P12694;P01100;P17275;Q04206;Q16613;P42224;P05062;Q99966;P21953;P05412;P30279;P16118;Q86X55;P22392;P27986}

11623 Pathogen[ P03346] interacts with 14 human partners: {P05412;Q99966;P30279;P36956;P17275;Q04206;O43316;P42224;P22392;P15407;Q86X55;P05062;P01100;P27986}

11624 Pathogen[ Q85601] interacts with 17 human partners: {O43316;Q86X55;Q99966;P15407;Q16613;P21953;P05062;P16118;P27986;P01100;P36956;Q04206;P30279;P05412;P42224;P22392;P17275}

11625 Pathogen[ P14079] interacts with 13 human partners: {O43181;P21953;Q99966;Q16613;P22392;P17275;P11686;P42224;P15407;Q16878;P05412;P36956;P01100}

11626 Pathogen[ P03383] interacts with 10 human partners: {P27986;Q86X55;P22392;Q16613;P30279;P15407;P01100;Q04206;P17275;P05412}

11627 Pathogen[ P03410] interacts with 17 human partners: {Q04206;P36956;P27986;P30279;P16118;P12694;Q86X55;P21953;P05062;P01100;P11686;P17275;Q16613;P05412;O43181;P15407;Q99966}

11628 Pathogen[ P14075] interacts with 11 human partners: {Q04206;P05412;P17275;P30279;Q16613;P16118;Q86X55;P27986;P01100;P15407;P22392}

11629 Pathogen[ P0C206] interacts with 17 human partners: {P05062;P15407;P17275;P22392;P30279;Q86X55;P05412;P21953;P36956;P27986;P01100;Q04206;Q99966;P16118;Q16613;P42224;O43316}

11630 Pathogen[ P03363] interacts with 9 human partners: {Q04206;P30279;O43316;P17275;P15407;P05412;P27986;Q86X55;P01100}

11631 [Cluster 1058]GO:0045722+P biological\_process [name] positive regulation of gluconeogenesis [def] "Any process that activates or increases the frequency, rate or extent of gluconeogenesis." [GOC

11632 Pathogen[ Q2Q067] interacts with 1 human partners: {P56211}

11633 Pathogen[ P0C214] interacts with 1 human partners: {P56211}

11634 Pathogen[ P03346] interacts with 2 human partners: {P56211;Q12778}

11635 Pathogen[ Q85601] interacts with 1 human partners: {P56211}



11636 Pathogen[ P14079] interacts with 1 human partners:{P56211}

11637 Pathogen[ P03383] interacts with 1 human partners:{P56211}

11638 Pathogen[ P03410] interacts with 1 human partners:{P56211}

11639 Pathogen[ P14075] interacts with 1 human partners:{P56211}

11640 Pathogen[ P0C206] interacts with 1 human partners:{P56211}

11641 Pathogen[ P03363] interacts with 1 human partners:{P56211}

11642 [Cluster 1059]GO:0051491+P biological\_process [name] positive regulation of filopodium assembly [def] "Any process that activates or increases the frequency, rate or extent of the assembly of a filopodium, a thin, stiff protrusion extended by the leading edge of a motile cell such as a crawling fibroblast or amoeba, or an axonal growth cone." [GOC

11643 Pathogen[ Q2Q067] interacts with 2 human partners:{O00401;P11831}

11644 Pathogen[ P0C214] interacts with 3 human partners:{P11831;Q9BRT3;O00401}

11645 Pathogen[ P03346] interacts with 3 human partners:{P11831;Q9BRT3;O00401}

11646 Pathogen[ Q85601] interacts with 2 human partners:{O00401;P11831}

11647 Pathogen[ P14079] interacts with 4 human partners:{O75781;Q9BRT3;P61158;O00401}

11648 Pathogen[ P03383] interacts with 2 human partners:{P11831;O00401}

11649 Pathogen[ P03410] interacts with 4 human partners:{Q9BRT3;P11831;O75781;O00401}

11650 Pathogen[ P14075] interacts with 2 human partners:{P11831;O00401}

11651 Pathogen[ P0C206] interacts with 3 human partners:{O00401;P11831;Q9BRT3}

11652 Pathogen[ P03363] interacts with 2 human partners:{P11831;O00401}

11653 [Cluster 1060]GO:0048096+P biological\_process [name] chromatin-mediated maintenance of transcription [def] "Maintenance of transcription by remodelling of chromatin into an 'open configuration'. Once established, this regulation is mitotically stable and is maintained over many cell divisions. It is also heritable." [GOC

11654 Pathogen[ Q2Q067] interacts with 4 human partners:{O14757;Q96GM5;Q8NFD5}

11655 Pathogen[ P0C214] interacts with 4 human partners:{O14497;O14757;Q8NFD5;Q96GM5}

11656 Pathogen[ P03346] interacts with 4 human partners:{Q96GM5;Q8NFD5;O14757;O14497}

11657 Pathogen[ Q85601] interacts with 4 human partners:{O14497;O14757;Q96GM5;Q8NFD5}

11658 Pathogen[ P14079] interacts with 3 human partners:{O14497;Q96GM5;Q8NFD5}

11659 Pathogen[ P03383] interacts with 4 human partners:{O14757;O14497;Q96GM5;Q8NFD5}

11660 Pathogen[ P03410] interacts with 4 human partners:{Q96GM5;O14497;Q8NFD5;O14757}

11661 Pathogen[ P14075] interacts with 4 human partners:{Q96GM5;O14497;Q8NFD5;O14757}

11662 Pathogen[ P0C206] interacts with 4 human partners:{O14497;Q96GM5;Q8NFD5;Q9UIG0}

11663 Pathogen[ P03363] interacts with 4 human partners:{O14497;Q8NFD5;Q96GM5;O14757}

11664 [Cluster 1061]GO:0045605+P biological\_process [name] negative regulation of epidermal cell differentiation [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of epidermal cell differentiation." [GOC

11665 Pathogen[ Q2Q067] interacts with 1 human partners:{Q15910}

11666 Pathogen[ P0C214] interacts with 1 human partners:{Q15910}

11667 Pathogen[ P03346] interacts with 1 human partners:{Q15910}

11668 Pathogen[ Q85601] interacts with 1 human partners:{Q15910}

11669 Pathogen[ P14079] interacts with 1 human partners:{Q15910}

11670 Pathogen[ P03383] interacts with 1 human partners:{Q15910}

11671 Pathogen[ P03410] interacts with 1 human partners:{Q15910}

11672 Pathogen[ P14075] interacts with 1 human partners:{Q15910}

11673 Pathogen[ P0C206] interacts with 1 human partners:{Q15910}

11674 Pathogen[ P03363] interacts with 1 human partners:{Q15910}

11675 [Cluster 1062]GO:0006426+P biological\_process [name] glycyl-tRNA aminoacylation [def] "The process of coupling glycine to glycyl-tRNA, catalyzed by glycyl-tRNA synthetase. In tRNA aminoacylation, the amino acid is first activated by linkage to AMP and then transferred to either the 2'- or the 3'-hydroxyl group of the 3'-adenosine residue of the tRNA." [GOC

11676 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9UHN1;P41250}

11677 Pathogen[ P0C214] interacts with 2 human partners:{P41250;Q9UHN1}

11678 Pathogen[ P03346] interacts with 2 human partners:{Q9UHN1;P41250}

11679 Pathogen[ Q85601] interacts with 2 human partners:{P41250;Q9UHN1}

11680 Pathogen[ P14079] interacts with 2 human partners:{P41250;Q9UHN1}

11681 Pathogen[ P03383] interacts with 2 human partners:{Q9UHN1;P41250}

11682 Pathogen[ P03410] interacts with 2 human partners:{P41250;Q9UHN1}

11683 Pathogen[ P14075] interacts with 2 human partners:{P41250;Q9UHN1}

11684 Pathogen[ P0C206] interacts with 2 human partners:{Q9UHN1;P41250}

11685 Pathogen[ P03363] interacts with 2 human partners:{P41250;Q9UHN1}

11686 [Cluster 1063]GO:0046785+P biological\_process [name] microtubule polymerization [def] "The addition of tubulin heterodimers to one or both ends of a microtubule." [GOC

11687 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9HC77;O94811;Q9UKT4}

11688 Pathogen[ P0C214] interacts with 3 human partners:{O94811;Q9HC77;Q9UKT4}

11689 Pathogen[ P03346] interacts with 3 human partners:{Q9HC77;Q9UKT4;O94811}

11690 Pathogen[ Q85601] interacts with 3 human partners:{Q9UKT4;Q9HC77;O94811}

11691 Pathogen[ P14079] interacts with 3 human partners:{Q9UKT4;O94811;Q9HC77}

11692 Pathogen[ P03383] interacts with 3 human partners:{O94811;Q9HC77;Q9UKT4}

11693 Pathogen[ P03410] interacts with 3 human partners:{Q9UKT4;Q9HC77;O94811}

11694 Pathogen[ P14075] interacts with 3 human partners:{O94811;Q9UKT4;Q9HC77}

11695 Pathogen[ P0C206] interacts with 3 human partners:{Q9HC77;O94811;Q9UKT4}

11696 Pathogen[ P03363] interacts with 3 human partners:{Q9HC77;O94811;Q9UKT4}

11697 [Cluster 1064]GO:0060487+P biological\_process [name] lung epithelial cell

differentiation [def] "The process in which a relatively unspecialized cell acquires specialized features of an epithelial cell that contributes to the epithelium of the lung." [GOC

11698 Pathogen[ Q2Q067] interacts with 4 human partners: {Q99502;Q14980;P81274;Q9H4B6}

11699 Pathogen[ P0C214] interacts with 4 human partners: {P81274;Q14980;Q9H4B6;Q99502}

11700 Pathogen[ P03346] interacts with 4 human partners: {Q99502;Q14980;P81274;Q9H4B6}

11701 Pathogen[ Q85601] interacts with 4 human partners: {P81274;Q99502;Q14980;Q9H4B6}

11702 Pathogen[ P14079] interacts with 4 human partners: {Q14980;Q99502;Q9H4B6;P81274}

11703 Pathogen[ P03383] interacts with 3 human partners: {P81274;Q14980;Q9H4B6}

11704 Pathogen[ P03410] interacts with 4 human partners: {Q99502;Q14980;P81274;Q9H4B6}

11705 Pathogen[ P14075] interacts with 4 human partners: {P81274;Q9H4B6;Q99502;Q14980}

11706 Pathogen[ P0C206] interacts with 4 human partners: {P81274;Q9H4B6;Q99502;Q14980}

11707 Pathogen[ P03363] interacts with 3 human partners: {Q14980;P81274;Q9H4B6}

11708 [Cluster 1065]GO:0040009+P biological\_process [name] regulation of growth rate  
[def] "Any process that modulates the rate of growth of all or part of an organism." [GOC

11709 Pathogen[ Q2Q067] interacts with 2 human partners: {P09874;Q7Z465}

11710 Pathogen[ P0C214] interacts with 2 human partners: {Q7Z465;P09874}

11711 Pathogen[ P03346] interacts with 2 human partners: {Q7Z465;P09874}

11712 Pathogen[ Q85601] interacts with 2 human partners: {P09874;Q7Z465}

11713 Pathogen[ P14079] interacts with 2 human partners: {P09874;Q7Z465}

11714 Pathogen[ P03383] interacts with 2 human partners: {Q7Z465;P09874}

11715 Pathogen[ P03410] interacts with 2 human partners: {Q7Z465;P09874}

11716 Pathogen[ P14075] interacts with 2 human partners: {Q7Z465;P09874}

11717 Pathogen[ P0C206] interacts with 2 human partners: {P09874;Q7Z465}

11718 Pathogen[ P03363] interacts with 2 human partners: {Q7Z465;P09874}

11719 [Cluster 1066]GO:0045624+P biological\_process [name] positive regulation of T-helper cell differentiation  
[def] "Any process that activates or increases the frequency, rate or extent of T-helper cell differentiation." [GOC

11720 Pathogen[ Q2Q067] interacts with 1 human partners: {P10242}

11721 Pathogen[ P0C214] interacts with 1 human partners: {P10242}

11722 Pathogen[ P03346] interacts with 1 human partners: {P10242}

11723 Pathogen[ Q85601] interacts with 1 human partners: {P10242}

11724 Pathogen[ P14079] interacts with 1 human partners: {P10242}

11725 Pathogen[ P03383] interacts with 1 human partners: {P10242}

11726 Pathogen[ P03410] interacts with 1 human partners: {P10242}

11727 Pathogen[ P14075] interacts with 1 human partners: {P10242}

11728 Pathogen[ P0C206] interacts with 1 human partners: {P10242}

11729 Pathogen[ P03363] interacts with 1 human partners: {P10242}

11730 [Cluster 1067]GO:0035520+P biological\_process [name] monoubiquitinated protein deubiquitination  
[def] "The removal of the ubiquitin group from a monoubiquitinated protein." [GOC

11731 Pathogen[ Q2Q067] interacts with 1 human partners: {P54252}

11732 Pathogen[ P0C214] interacts with 1 human partners: {P54252}

11733 Pathogen[ P03346] interacts with 2 human partners: {O94782;P54252}

11734 Pathogen[ Q85601] interacts with 1 human partners: {P54252}

11735 Pathogen[ P14079] interacts with 1 human partners: {P54252}

11736 Pathogen[ P03383] interacts with 1 human partners: {P54252}

11737 Pathogen[ P03410] interacts with 1 human partners: {P54252}

11738 Pathogen[ P14075] interacts with 1 human partners: {P54252}

11739 Pathogen[ P0C206] interacts with 1 human partners: {P54252}

11740 Pathogen[ P03363] interacts with 1 human partners: {P54252}

11741 [Cluster 1068]GO:0032273+P biological\_process [name] positive regulation of protein polymerization  
[def] "Any process that activates or increases the frequency, rate or extent of the process of creating protein polymers." [GOC

11742 Pathogen[ Q2Q067] interacts with 1 human partners: {O94811}

11743 Pathogen[ P0C214] interacts with 1 human partners: {O94811}

11744 Pathogen[ P03346] interacts with 1 human partners: {O94811}

11745 Pathogen[ Q85601] interacts with 1 human partners: {O94811}

11746 Pathogen[ P14079] interacts with 1 human partners: {O94811}

11747 Pathogen[ P03383] interacts with 1 human partners: {O94811}

11748 Pathogen[ P03410] interacts with 1 human partners: {O94811}

11749 Pathogen[ P14075] interacts with 1 human partners: {O94811}

11750 Pathogen[ P0C206] interacts with 1 human partners: {O94811}

11751 Pathogen[ P03363] interacts with 1 human partners: {O94811}

11752 [Cluster 1069]GO:0043367+P biological\_process [name] CD4-positive, alpha-beta T cell differentiation  
[def] "The process in which a relatively unspecialized T cell acquires specialized features of a mature CD4-positive, alpha-beta T cell." [CL

11753 Pathogen[ Q2Q067] interacts with 1 human partners: {Q01826}

11754 Pathogen[ P0C214] interacts with 2 human partners: {Q8WXG1;Q01826}

11755 Pathogen[ P03346] interacts with 3 human partners: {P15863;Q8TAU0;Q01826}

11756 Pathogen[ Q85601] interacts with 1 human partners: {Q01826}

11757 Pathogen[ P14079] interacts with 2 human partners: {Q01826;Q8WXG1}

11758 Pathogen[ P03383] interacts with 1 human partners: {Q01826}

11759 Pathogen[ P03410] interacts with 2 human partners: {Q8WXG1;Q01826}

11760 Pathogen[ P14075] interacts with 1 human partners: {Q01826}

11761 Pathogen[ P0C206] interacts with 3 human partners:{Q01826;Q8TAU0;Q8WXG1}  
11762 Pathogen[ P03363] interacts with 2 human partners:{Q01826;Q8TAU0}  
11763 [Cluster 1070]GO:0009649+P biological\_process [name] entrainment of circadian clock  
[def] "The synchronization of a circadian rhythm to environmental time cues such as  
light." [GOC  
11764 Pathogen[ Q2Q067] interacts with 2 human partners:{Q8WYA1;O14503}  
11765 Pathogen[ P0C214] interacts with 3 human partners:{O60346;O14503;Q8WYA1}  
11766 Pathogen[ P03346] interacts with 6 human  
partners:{O60346;O15534;O14503;Q8WYA1;O15516;Q8N100}  
11767 Pathogen[ Q85601] interacts with 5 human  
partners:{O60346;O15534;O15516;Q8WYA1;O14503}  
11768 Pathogen[ P14079] interacts with 4 human partners:{O60346;O14503;Q8WYA1;O15534}  
11769 Pathogen[ P03383] interacts with 1 human partners:{O14503}  
11770 Pathogen[ P03410] interacts with 3 human partners:{O15534;O60346;Q8WYA1}  
11771 Pathogen[ P14075] interacts with 1 human partners:{O14503}  
11772 Pathogen[ P0C206] interacts with 4 human partners:{O15534;O15516;Q8WYA1;O60346}  
11773 Pathogen[ P03363] interacts with 3 human partners:{Q8WYA1;O15534;O14503}  
11774 [Cluster 1071]GO:0033153+P biological\_process [name] T cell receptor V(D)J  
recombination [def] "The process in which T cell receptor V, D, and J, or V and J gene  
segments, depending on the specific locus, are recombined within a single locus  
utilizing the conserved heptamer and nonamer recombination signal sequences (RSS)." [GOC  
11775 Pathogen[ Q2Q067] interacts with 1 human partners:{P36402}  
11776 Pathogen[ P0C214] interacts with 1 human partners:{P36402}  
11777 Pathogen[ P03346] interacts with 1 human partners:{P36402}  
11778 Pathogen[ Q85601] interacts with 1 human partners:{P36402}  
11779 Pathogen[ P14079] interacts with 2 human partners:{P36402;P49917}  
11780 Pathogen[ P03383] interacts with 1 human partners:{P36402}  
11781 Pathogen[ P03410] interacts with 1 human partners:{P36402}  
11782 Pathogen[ P14075] interacts with 1 human partners:{P36402}  
11783 Pathogen[ P0C206] interacts with 2 human partners:{P49917;P36402}  
11784 Pathogen[ P03363] interacts with 1 human partners:{P36402}  
11785 [Cluster 1072]GO:0043065+P biological\_process [name] positive regulation of apoptotic  
process [def] "Any process that activates or increases the frequency, rate or extent of  
cell death by apoptotic process." [GOC  
11786 Pathogen[ Q2Q067] interacts with 63 human  
partners:{Q13562;O00213;Q9NR28;P55957;Q9Y5V3;Q99638;Q9NXR8;Q14160;Q9UMX3;P09913;P411  
82;Q01664;O00273;Q05516;O60238;Q6PI26;Q9UNL4;O60356;O15350;P41218;Q14934;Q13158;Q8WY  
N3;Q9NYF8;Q13794;Q9NXC7;P11388;Q9UHI6;P35548;P20719;O43236;Q99728;Q9UNN5;P55212;O002  
55;Q13127;P29474;Q13233;P42575;Q15327;O00198;Q969S3;P50570;Q15257;Q12983;O95238;Q157  
14;Q9H4B6;P27986;Q9BZF9;Q96IZ0;P15407;P27469;Q9H3M7;O43324;Q96A26;P62753;Q8WYA6;Q96E  
Y1;O15205;Q8N163;Q8N9B5;Q8N2W9}  
11787 Pathogen[ P0C214] interacts with 67 human  
partners:{O00198;P27469;P29474;Q8N163;O00213;Q969S3;Q15327;Q9NPP4;Q9Y5V3;Q99728;O952  
38;P09913;Q96IZ0;Q92934;P15407;Q8WYN3;P55212;Q9H3M7;Q13158;O15350;Q8N2W9;Q13015;Q6PI  
26;P55957;P41218;Q9UNL4;Q15257;Q8IWE4;Q9NXC7;Q13794;O00273;Q13233;Q9H4B6;Q9UNN5;P627  
53;Q9UMX3;O60356;Q15714;P10809;Q9UHI6;P41182;P11388;O15205;O43324;Q13127;Q14934;Q141  
60;Q12983;P05412;Q8N9B5;P10909;O60238;Q9BZF9;Q8WYA6;P50570;Q99638;Q9NR28;O43236;Q016  
64;P27986;P35548;Q96EY1;Q05516;P42575;O00255;Q9NYF8;P18054}  
11788 Pathogen[ P03346] interacts with 80 human  
partners:{P31271;Q06945;Q969S3;P05412;O00213;P50570;Q15788;Q8N163;P58012;Q8N9B5;P294  
74;O14901;Q9UNL4;P35548;Q02535;P11388;Q13158;Q9NR28;Q9BYM8;Q99728;P27469;O60238;P425  
75;Q8WYN3;P55957;Q6PI26;Q15257;Q96A26;Q15327;P18054;O95238;Q99638;O15350;P55212;Q129  
83;Q8IWE4;P20719;P41218;P52756;Q14934;Q96IZ0;O43236;Q9NPP4;Q8WYA6;Q9UNN5;O00255;Q9UP  
Q4;Q9NXC7;Q9C0C7;O43324;Q9UHI6;O15205;O00198;Q8IUQ4;Q13233;Q13015;Q9Y5V3;Q8N2W9;P154  
07;P41182;Q05516;O60356;Q9BZF9;Q9H4B6;P09913;Q14160;Q9UMX3;Q9H8V3;Q9NYF8;Q13562;Q9H3  
M7;P62753;Q01664;Q96EY1;Q9NXR8;Q15714;P27986;Q13794;O00273;Q13127}  
11789 Pathogen[ Q85601] interacts with 66 human  
partners:{Q96IZ0;Q9NXC7;O00213;O43324;P09913;Q13127;Q13158;Q9BZF9;P15407;P62753;Q6PI  
26;Q99728;Q9UNL4;Q8WYA6;Q9NR28;Q9UMX3;Q8N2W9;P27469;Q15714;O00198;P27986;Q13562;Q149  
34;Q8WYN3;Q969S3;Q9UNN5;P42575;Q9UPQ4;Q9Y5V3;Q9UHI6;P41218;P50570;P55957;P35548;O002  
73;O15205;P05412;P11388;Q15327;Q14160;O00255;Q13015;P29474;Q05516;P31271;Q12983;Q8N1  
63;O60356;O15350;Q13233;Q8IWE4;P55212;P41182;Q9NXR8;Q15257;O60238;Q8N9B5;Q9H3M7;Q016  
64;Q96EY1;Q9H4B6;Q99638;Q9NYF8;Q13794;O43236;O95238}  
11790 Pathogen[ P14079] interacts with 73 human  
partners:{P04083;Q8N2W9;P11388;P41218;P27469;Q8N163;Q15714;Q8N9B5;P62753;Q9UNL4;Q055  
16;O00213;P10909;Q9UHI6;P31271;Q14249;O15350;P55212;P09913;P50570;Q9NYF8;P08758;Q9Y5  
V3;P41182;Q9UNN5;Q9Y6U3;Q9NXC7;O95238;Q92934;Q14934;O15205;Q9H4B6;Q9BYM8;Q9NR28;Q96I  
Z0;Q15788;Q9H8V3;Q01664;Q13794;P46695;Q12983;Q9UMX3;Q96A26;Q15327;Q13158;Q9BZF9;P154  
07;Q6PI26;O00198;Q99638;Q9H3M7;Q6UWH6;O60356;P42575;Q8WYN3;P05412;Q13127;Q13015;P527  
56;O60238;P28360;O14901;Q8WYA6;O00255;Q969S3;P17405;Q96EY1;O43324;O43236;P55957;O002  
73;Q9NPP4;Q8IWE4}  
11791 Pathogen[ P03383] interacts with 57 human  
partners:{P27986;O00213;P29474;P55212;P27469;Q14160;Q13233;Q8N163;Q15257;O43236;Q9BZ  
F9;P55957;P62753;Q6PI26;Q15714;Q9UHI6;Q9UMX3;Q96IZ0;Q96A26;Q9UNL4;Q8WYN3;Q05516;Q8N2  
W9;O43324;Q13158;Q12983;Q8IWE4;Q01664;P41218;P09913;Q14934;O60238;O00273;P35548;Q9UN  
N5;Q13015;Q9Y5V3;Q9NYF8;P15407;O15350;O00255;Q15327;Q99638;O95238;Q9H3M7;Q8N9B5;O001

- 11792 98;Q13794;O15205;Q9NR28;Q8WYA6;Q96EY1;Q9H4B6;Q13127;Q969S3;O60356;P05412}  
Pathogen[ P03410] interacts with 73 human  
partners: {O14901;Q15714;P27986;O15205;Q9UNN5;O95238;Q12983;Q8IWE4;Q13015;Q9NR28;P41218;O00198;P42575;Q6PI26;Q9NZC7;Q15257;Q969S3;Q9UPQ4;Q9UNL4;O00273;Q9H3M7;O00213;Q92934;Q8N2W9;P50570;Q9NPP4;Q13794;Q9Y6U3;Q13233;Q14160;Q15327;P55957;Q13158;Q8WYA6;Q13127;P35548;P29474;O43236;Q8WYN3;Q8N163;P27469;Q99638;Q9UMX3;Q9NXR8;Q96A26;O60356;Q96IZ0;Q6UWH6;O43324;P41182;P05412;P11388;P09913;Q9Y5V3;Q9BZF9;Q8N9B5;Q01664;O15350;P46695;Q9NYF8;Q9H4B6;P15407;Q9H8V3;O00255;P55212;Q9UHI6;Q14934;Q96EY1;O60238;P62753;P17405;Q14249;P10909}
- 11793 Pathogen[ P14075] interacts with 55 human  
partners: {P29474;Q15257;O00213;Q969S3;Q12983;P55957;O00273;P09913;P05412;Q96A26;Q9UMX3;Q14160;O43236;P55212;P41218;Q6PI26;P35548;Q15327;Q15714;Q13015;Q8N2W9;Q9NYF8;Q96IZ0;Q8N163;Q99638;O00255;Q9NR28;Q9UHI6;Q9H4B6;Q9UNN5;Q01664;P62753;O15350;O60238;Q14934;Q13158;P27986;Q9H3M7;O60356;Q13794;Q9UNL4;Q8WYA6;Q13127;Q05516;Q9BZF9;P27469;P15407;O43324;Q13233;Q9Y5V3;O15205;Q8WYN3;Q8N9B5;Q96EY1;O00198}
- 11794 Pathogen[ P0C206] interacts with 77 human  
partners: {Q9UNN5;O43324;Q9C0C7;Q96IZ0;Q13127;Q9NR28;P15407;P41182;Q05516;Q15327;Q9UMX3;O00255;P05412;Q8IUQ4;Q8N2W9;Q9Y5V3;P55212;Q8IWE4;O15205;Q13158;Q96A26;P41218;O95238;Q9NXR8;P27986;Q13233;Q8N9B5;O43236;Q8WYA6;Q92934;Q99638;O60356;O00213;O60238;Q9UPQ4;Q12983;Q969S3;Q9NYF8;Q6PI26;Q13015;Q14160;P35548;P09913;Q9H4B6;O00198;Q99728;P10909;Q9H8V3;Q14934;Q13562;P29474;Q01664;Q9H3M7;Q9NZC7;P31271;O15350;O14901;P27469;P42575;P11388;Q9UHI6;P62753;P20719;Q9BZF9;Q9BYM8;Q96EY1;Q15788;Q14249;Q8N163;O00273;Q15714;Q15257;Q8WYN3;P50570;P55957;Q9UNL4;Q13794}
- 11795 Pathogen[ P03363] interacts with 60 human  
partners: {Q9UNN5;O14901;O15205;P29474;P55957;O00273;O60356;Q9UHI6;Q96IZ0;P62753;O00213;P41218;Q13794;P09913;P20719;P31271;Q14160;P50570;Q9H3M7;Q8WYA6;Q13015;P35548;Q13158;Q15327;O00198;Q9UNL4;Q13127;Q9BZF9;P55212;Q9C0C7;Q8WYN3;Q6PI26;O95238;Q9NR28;Q8N163;Q9NYF8;P15407;Q99638;Q9H4B6;P27469;Q9Y5V3;Q15257;Q15714;P05412;Q14934;Q99728;Q9NP4;Q96EY1;Q8N2W9;Q05516;O60238;P27986;Q969S3;O43324;Q9UMX3;Q8N9B5;Q13233;Q01664;O43236;P52756}
- 11796 [Cluster 1073]GO:0060762+P biological\_process [name] regulation of branching involved in mammary gland duct morphogenesis [def] "Any process that modulates the rate, frequency, or extent of branching involved in mammary gland duct morphogenesis." [GOC
- 11797 Pathogen[ Q2Q067] interacts with 3 human partners: {P41161;P43268;Q99623}
- 11798 Pathogen[ P0C214] interacts with 3 human partners: {Q99623;P43268;P41161}
- 11799 Pathogen[ P03346] interacts with 3 human partners: {P41161;Q99623;P43268}
- 11800 Pathogen[ Q85601] interacts with 3 human partners: {Q99623;P41161;P43268}
- 11801 Pathogen[ P14079] interacts with 2 human partners: {Q99623;P41161}
- 11802 Pathogen[ P03383] interacts with 3 human partners: {P41161;P43268;Q99623}
- 11803 Pathogen[ P03410] interacts with 3 human partners: {P41161;Q99623;P43268}
- 11804 Pathogen[ P14075] interacts with 2 human partners: {P43268;Q99623}
- 11805 Pathogen[ P0C206] interacts with 3 human partners: {Q99623;P43268;P41161}
- 11806 Pathogen[ P03363] interacts with 3 human partners: {Q99623;P43268;P41161}
- 11807 [Cluster 1074]GO:0006810+P biological\_process [name] transport [def] "The directed movement of substances (such as macromolecules, small molecules, ions) into, out of or within a cell, or between cells, or within a multicellular organism by means of some agent such as a transporter or pore." [GOC
- 11808 Pathogen[ Q2Q067] interacts with 333 human  
partners: {Q92783;Q7Z3C6;Q14974;Q8TCS8;Q9UI26;Q4G0F5;Q96EE3;Q8IUD2;O15027;O75351;Q9H2G9;Q96FV9;O60684;Q94973;O15234;P31749;P52948;Q7LBR1;Q12769;O00186;Q9Y6D6;Q9Y6Q5;O00410;Q99747;Q10567;Q96HA1;O15126;P56377;Q92681;Q63HQ0;Q96QU8;O60664;O43747;P63172;Q9Y4P1;P49790;O95782;O60296;Q9H444;Q2VPB7;Q9NVU7;Q92572;P61326;O60784;P49792;P61579;Q14579;Q7Z6B0;Q9NPJ8;Q8TF09;P55735;Q9H2T7;O75694;Q9H1B4;P62826;Q99816;Q9BSW2;Q9NUL3;Q9H1H9;Q9P299;Q14204;O75865;Q6PD74;Q96B49;Q8WV92;Q9UJY4;Q9BRG1;A8CG34;P36543;Q9UJY5;Q8WY5;O94829;Q9UP83;P38919;P63167;O43752;Q9UBU9;O14662;Q53FT3;Q8IUR0;O43617;P83436;P61573;Q96EY5;P61970;Q99567;Q8N1F7;Q9C0E2;Q8N1B4;Q86SZ2;Q69383;Q13432;Q9UBQ0;Q7L804;Q92945;P48444;P52594;Q9Y3R5;Q7Z3B4;P42704;O14910;O00189;Q7Z614;Q13838;Q96P70;Q6I9Y2;Q8NFH4;Q9BZI7;Q96N16;Q13769;P63241;Q96KP1;Q92973;P12270;P05413;Q9H267;P63010;Q96PC3;P54105;Q9NP97;Q9Y5L0;Q8N612;P11166;Q15629;O15069;Q96QF0;O75886;Q9UND3;O75381;Q14203;Q96CW1;P61923;O43745;P60520;O95721;O95159;Q8N0Z2;O43264;O75396;O15127;Q8WUM4;Q96L92;O14980;Q13428;O60645;Q15388;P53677;Q5HYI7;Q05084;O15131;O00471;Q9UBF2;Q9BYV8;Q9BW27;O43768;O14787;Q9H9C1;Q86V81;P61576;Q53GS7;Q8TEM1;Q9H8T0;Q96BW9;Q8TEX9;Q14746;P61572;Q92624;P84022;P61571;P61966;P68871;Q9UL33;A9QM74;Q06787;Q5VIR6;Q15437;P55060;A5D8V6;O60220;P53992;Q9Y5J6;O95486;Q9BVL2;Q96D46;Q96RL7;O75843;Q9HD42;Q96JB2;O94855;P0DI81;Q02410;P0DI82;Q9UQN3;O15078;Q9UQX7;Q9HD47;Q6IS14;Q9UN37;Q9Y5S9;Q8IWI2;Q96H20;Q9Y2T2;Q9H0R1;Q8TD16;Q9H7P6;Q9NZZ3;Q9Y4E1;Q53G59;Q8NFH3;O00505;Q9BXS5;Q9UIA9;Q99996;P61574;Q96JE7;Q9UQ41;Q13618;Q86VQ0;P69905;Q9NRA8;Q9HAV4;Q7L5D6;P37198;A6NF01;Q86WG3;Q8NI27;Q8TAC9;Q92621;P54920;P62072;Q9Y3E7;O75436;Q96QK1;Q14764;O43299;O15397;Q9P1Q0;Q13228;Q9H9H4;O95373;Q96CF2;Q09161;Q9Y5J7;P53618;Q9H009;Q9H0U6;O00629;O15504;O43615;Q6NUQ1;P57740;Q9HC62;P11441;O95271;Q9H4D5;Q6ULP2;P52292;O15155;P52298;A6NIH7;Q9NP79;Q9H6Z4;Q8IUR6;O60763;Q9UQK6;O00161;Q15833;O14925;O75382;O75154;Q9P0U1;Q13409;P61575;O95487;O43633;O14964;Q9NUS5;Q5T2W1;O75558;Q8WUM0;O96018;P35606;Q96FJ2;Q8WTW3;Q9GZV4;Q96NA2;Q9NP48;O43592;Q9UQK3;P49321;Q8WUX9;O60518;Q9UBX3;Q9Y678;Q9BX66;Q15121;Q99689;Q676U5;Q9P4T5;Q86VS8;Q9Y296;P14672;Q9P2W9;Q9BXF6;P51808;Q13765;Q86VN1;Q9NT62;Q9658;Q96ED9;P61578;Q96QD9;P49754;Q8NFH5;P52294;Q15436;Q9H9E3;O75674;Q96GV9;Q8NEZ2;Q9Y3A3;Q9NZ52;Q9H814;Q8IYI6;O14576;Q13367;Q5SRE5;Q15276;Q96CW6;Q9NUP9;O95149;P24539;Q9H1J1}

- 11809 Pathogen[ P0C214] interacts with 356 human partners: {P60520;Q96BW9;Q9BZI7;O94829;Q96CWL;Q8TEX9;O43768;Q15833;Q9UI26;Q6NUQ1;O15078;Q9Y5L0;P61923;Q96FV9;Q8IWI2;P55735;O75865;O15234;A9QM74;O14910;Q14746;Q16864;P49754;Q09161;Q6IS14;Q06787;Q9UIA9;Q8NOZ2;O14787;Q9P299;Q8WUX9;Q8NFH5;Q96CF2;Q8N2H4;P55060;Q96P70;Q99747;Q15388;Q92624;Q13505;O75351;P53992;O43264;P02042;Q9H9E3;Q9UI12;Q9H0U6;P59780;Q9UJY5;Q99698;O00159;P46379;Q96ED9;Q86V81;Q9UPT5;Q14203;Q9Y5S9;P61571;Q13769;Q9GZV4;Q9Y4E1;Q8TEML;Q9H814;Q96QK1;Q8TAC9;Q9UM54;O14579;Q9NP79;Q14764;Q9H444;O60220;Q8TF09;Q9Y2T2;Q96GV9;Q96D46;P57740;O00189;Q13367;Q9HD42;Q9Y4P1;Q99567;P61572;P53618;Q8WYP5;O60684;P35606;Q9UND3;P84022;O00186;P48444;Q9BYV8;P61573;Q9BX66;Q8N1F7;Q9NUS5;O75694;P42704;Q96NA2;Q641Q2;P83436;P69905;Q96EE3;Q15121;O14964;Q676U5;Q14204;Q9HA V4;Q9NPJ8;O43745;O95721;P49792;O75381;O75886;Q96018;P54920;Q13618;O15127;Q9UKX7;P36543;Q9Y296;O60296;O43617;P61575;P05413;P51808;Q9UQN3;Q7Z614;Q9UK41;O95149;Q9H0R1;Q8N612;Q2VPB7;P63241;Q15436;P36542;O15131;Q8IUR0;O75843;A8CG34;Q9H089;P62072;P11166;Q7L804;Q96QU8;Q13428;Q5T2W1;Q9UBX3;Q53FT3;P23786;Q9BY43;O43299;Q9H7P6;P63010;P52298;Q10567;Q9NPG2;Q7LBR1;P11168;O14925;Q92681;Q86VS8;Q92572;Q9H1B4;P49790;Q96EY5;O43681;A6NF01;O14980;P37198;P68871;Q9BW27;P52294;Q9UBF2;P69892;O95487;Q53G59;P49257;Q9H8T0;Q9UJY4;O15126;Q53GS7;P61326;Q9BRG1;P53677;P38919;Q9UKK6;P61576;Q96L92;P56377;Q15437;O43615;P24539;P61574;Q9NUL3;P35658;O43592;Q9Y5J9;Q8TCS8;Q9H2G9;Q9NPA8;P02100;P49321;Q99689;Q9BQQ3;Q13765;Q96PC3;Q9NVU7;P0DI81;Q8NFH3;Q9NZ52;Q9Y5J6;P61579;P11441;Q7Z6B0;Q96RL7;Q8NI27;P61578;Q8TD16;Q8NEZ2;Q9BXF6;O43752;Q8N1B4;O60763;O00505;Q7L5D6;Q9Y3E7;Q9HD26;Q60784;P62826;Q8IUR6;Q99816;O43747;Q9HD42;Q99766;Q69383;O75436;Q5VIR6;Q94973;Q9NNUU7;Q9P1Q0;Q96G01;Q9Y6Q5;P63172;Q9H009;Q9UBQ0;Q15629;O14576;O15504;Q02410;Q3ZCQ8;Q9Y5J7;Q9NZZ3;Q9UKK3;Q96FJ2;Q9BSW2;Q9UP83;O75396;Q6ULP2;Q9Y6D6;Q5SNT6;Q9UMR2;Q92973;Q9NP97;A6NIH7;O60664;Q9HC62;Q6PD74;P61966;Q8N4Q1;P52292;P12270;O15069;Q96B49;Q96H20;Q14974;O95782;A5D8V6;Q5T215;Q05084;O60645;Q9P0U1;P52594;Q92945;Q9H2T7;Q9UN37;Q9Y3A3;O7558;Q9H9C1;Q86WG3;Q99996;Q96QD9;Q8NFH4;Q9BVL2;Q13409;Q92783;Q9H4D5;Q13228;O43633;O75674;Q9H9H4;P69891;Q5HYI7;Q9Y3R5;O95271;Q63HQ0;Q96JE7;Q8IUD2;P53680;Q9Y678;P61970;Q5SRE5;Q9NT62;P14672;Q96JB2;Q13838;O95373;Q9C0E2;Q9UL33;Q8IYI6;Q96QF0;Q9H6Z4;Q7Z3B4;Q9BXS5;O00161;O15155;O15027;O60518;Q8WUM0;O95486;Q86VN1;P52948;Q92621;P31749;O15397;Q4G0F5;P0DI82;Q9UBU9;Q12769;Q86SZ2;O00629;O75154;Q13432;Q8WTW3;Q7Z3C6;Q9P2W9;Q6I9Y2;P55072;P63167;O00471;Q96CW6;O94855;Q9NRA8;Q9H1J1;Q96N16;Q8WUM4;Q96HA1}
- 11810 Pathogen[ P03346] interacts with 445 human partners: {O95166;Q8TEML;Q92681;Q13596;Q8TEX9;Q8IYI6;Q96G01;O75382;Q15833;Q9Y5S9;Q9UI26;P54105;Q96FV9;P21283;O14925;Q9BZI7;O60664;Q4G0F5;P61966;P55735;O15234;Q5VIR6;Q96FJ2;Q86XT2;Q9H1M0;Q96P70;O43752;Q8NOZ2;Q96QK1;Q14746;Q8NFH4;Q99698;Q8WUM0;Q86VQ0;O00629;O95159;Q9UI161;O15397;Q9H115;Q7Z3C6;Q5JWR5;Q9UPT5;Q9HAV4;Q06787;Q9P2W9;O15027;P12270;Q9H2G9;O14576;P61579;Q9Y4P1;Q9Y5R8;P29373;Q13228;Q5T2W1;Q96PU8;Q9Y6B7;O95149;Q9NS69;Q9UP83;O00471;Q12769;Q96A65;Q8N4Q1;Q9H2T7;Q86VS8;P09651;Q96EE3;Q99567;Q96N16;Q96JB2;Q15036;P05413;Q9GZV4;Q14764;P63010;O14787;A5D8V6;Q2VPB7;Q9P253;P07148;Q9UKX7;Q8N612;O43747;Q9Y3D7;Q9UBX3;Q9Y5K8;O75694;Q9HD42;Q92572;P60520;Q96MW5;P60520;Q96U06;P53680;Q9C0E2;P49754;Q9UMR2;Q96GV9;Q92543;P51808;P57740;P02100;P61578;Q99689;P49257;P56377;Q8WYP5;Q96QU8;O43615;Q15629;Q9P0U1;Q9H814;Q9BVL2;Q9Y6D5;O75865;Q969X5;P59780;Q13618;Q8WTW3;O75886;P61573;Q8IUD2;Q8NEZ2;Q9BXS5;Q9UKK3;Q8N1F7;Q96T51;Q9H0R1;O00410;Q86S22;Q96NA2;Q9Y5H7;Q53GS7;P36543;Q9Y678;P38919;Q12981;O43264;O95782;P23786;Q99816;P53618;Q9UMY4;Q9H1H9;Q86VN1;Q13190;Q86VN1;Q8IUR6;Q9NPG2;Q60296;Q99767;Q93050;O75396;O00505;Q7Z614;Q8NFH5;Q9UK41;Q14204;Q7L5D6;Q9P299;Q9UBQ0;Q9H173;Q14203;O14579;P69905;Q92945;Q9BX66;O00189;Q05084;Q13769;P63241;P37198;P55060;Q8NFH3;P35658;P52298;P55072;P49321;Q9UID3;Q9HD47;O60784;Q01469;Q9H1B4;Q53HI1;A8K0Z3;P61571;Q02410;Q96H20;Q9UIA9;O00186;P62826;Q96FZ7;Q8TF09;Q9BT04;O94855;Q7Z6B0;Q6IS14;O43768;O75381;P61572;P48553;Q5SRE5;Q13432;Q9BTX1;O15069;O60518;Q96CF2;Q9NZZ3;O00299;Q9NRS6;O43592;Q92621;Q96A72;Q9Y2V7;Q9Y3R5;Q9BXW6;Q9Y6D6;Q10567;Q6NUQ1;Q9BW27;O00161;Q8NAA4;Q9BUN8;Q9Y5J6;P84022;Q14847;Q86V81;O75843;O14980;P48444;P20340;Q92973;Q9H8T0;Q15436;Q9Y3E7;Q7L804;Q9H9E3;O60493;Q7Z3U7;Q9UL33;Q9UPM8;Q8TAC9;Q96J01;Q9NUP9;Q5T215;P24539;Q96L92;P31749;Q9UNH7;Q15437;O43633;Q9Y3A3;Q9HD26;Q9Y296;Q9Y587;Q96JE7;O95373;Q9H444;Q6PD74;Q8N2H4;P11441;Q9Y2L5;P61574;P42704;O15131;O60220;Q8TCS8;Q96CWL;Q6ZP65;O95721;P46379;Q86AX1;P52594;Q9UBF2;Q8WV92;Q9H9H4;P42566;Q96PC3;Q96RL7;Q9NVU7;P0DI81;Q9UJY4;Q8N1B4;Q9Y5X2;P51161;P54920;A9QM74;Q15121;Q8IZS6;Q96QD9;Q8TD16;Q96B49;Q9NUS5;P61923;O96018;P61326;Q9BRG1;Q13838;P11166;Q13428;P62072;P63172;O15126;O95833;O60763;Q8IUR0;P30622;Q9UQN3;O95486;Q9HAP6;Q9BQQ3;Q9BYV8;O75436;P83436;Q08AE8;P68871;Q9NUU7;Q9P1Q0;Q969Q5;P0DI82;Q9ULV0;Q9UJ41;Q5JRA6;Q9Y4E1;Q9H4D5;Q9H009;P36405;Q96ED9;Q9HCU5;Q9HC62;Q99996;Q13409;Q9BY43;Q969F2;Q92783;Q9UBU9;Q13367;O95271;O95219;Q9NP79;A8CG34;P52292;Q6ULP2;Q9H9C1;Q15388;Q9UND3;O75351;P50542;Q9HA38;A6NIH7;P49790;O60684;P61575;Q9Y5L0;Q9BXF6;O14964;Q9BSW2;P63167;Q5HYI7;Q16864;Q86YS3;O95487;Q9H6Z4;Q96KG9;O14617;O60749;Q7Z392;Q7LBR1;Q9NRA8;O15078;Q9H8V3;P61970;Q96HA1;Q9UKK6;Q9UJY5;O43299;P61576;O75154;Q13283;Q15035;O43933;Q96BW9;P49755;O75558;O75674;Q9Y6Q5;O94829;Q676U5;Q63HQ0;P35606;Q9ULU8;P14672;Q9Y2J0;Q6FIF0;O94973;Q32P51;Q96EY5;A6NF01;O15155;Q13765;Q69383;Q92624;Q7Z3B4;Q9NPA8;Q9NZ52;Q8NI27;O14662;Q8WUM4;Q9H7P6;Q9H267;Q9NP97;P52294;Q96D46;O60645;P53992;O14910;Q96K P1;Q15363;Q86WG3;Q9NPJ8;Q9BVK6;Q9UJC3;P53677;Q99747;O43745;O15504;Q8IWI2;Q9UN37;Q53FT3;Q6I9Y2;O43617;Q86Y82;Q8WUX9;Q15276;Q9Y2T2;Q96CW6;O15127;P49792;Q96QF0;Q14974;Q9H1J1;P52948;Q8WU76}
- 11811 Pathogen[ Q85601] interacts with 385 human partners: {Q8TEML;Q13367;Q13596;Q8IYI6;Q96QK1;Q9UI26;O14925;Q9BZI7;Q99816;O60664;Q63HQ0;O00186;Q8IWI2;Q5SRE5;P54920;P69905;O15234;O15126;Q13409;Q14746;O00629;Q53FT3;O75843;P11168;Q9UPT5;Q9HAV4;Q9UIA9;Q9NP79;O15027;P48444;Q9NP97;Q19Y2T2;P31749;P24539;Q9NNUU9;Q9UQN3;O75154;Q5T2W1;Q8NFH4;O95149;Q15388;O14910;Q8NFH3;Q6NUQ1;P51808;P36405;O00471;Q96A65;Q8N2H4;Q9H7P6;Q86VS8;Q8IUR6;Q7L804;Q9UJY4;Q96EE3;Q9BQQ3;Q96H20;O75396;Q9HD

47;P05413;Q9GZV4;Q9UL33;Q96CW1;Q15629;Q15833;O14579;O95487;Q9P253;A8CG34;Q96P70;Q13769;Q12769;Q8TAC9;O95166;Q9UBU9;O60763;P51161;Q96JE7;Q9UBX3;Q9H0U6;Q8WV92;Q9BXS6;Q86Y53;Q15036;Q9UP83;P62072;Q9BXS5;P02042;P57740;Q53GS7;Q9Y4P1;Q9NUS5;Q9BRG1;P56377;Q9Y5J9;Q9Y5J6;Q8WYP5;Q9HC62;Q9P299;O15155;Q06787;Q93050;P30622;P61326;P62826;O60220;P61573;Q9UKK3;Q8WUM0;Q8N1F7;Q96T51;Q9Y5J7;Q9H4D5;P46379;Q12981;Q9UMR2;O43264;Q14204;Q15121;Q9H9H4;Q86VN1;Q96JB2;O43747;Q9NPJ8;P61923;Q96L7;P83436;Q9H1H9;Q9UPM8;O43299;Q8IZS6;Q9Y296;Q9NP61;P61970;O15078;Q99767;Q14764;O43633;Q7Z614;Q86V81;Q7L5D6;Q5VIR6;Q14203;P49754;Q6ZP65;Q7LBR1;P63241;P52594;Q9UJ41;P12270;Q10567;Q9H6Z4;P63172;Q9P2W9;Q4G0F5;P49321;O75886;Q9UJY5;Q15436;Q96BW9;Q8N612;Q9H1B4;O75694;Q9H089;Q9C0E2;O43617;O43745;P02100;Q96FZ7;Q9H9C1;Q8WTW3;Q09161;O15504;Q14974;Q8WUX9;Q9H267;O94829;Q7Z3C6;O43752;P38919;Q86CF2;Q96L92;Q96FV9;Q8N6H7;O60518;Q43681;O60296;Q5T215;O15131;Q9BW27;Q92624;P69892;P61576;Q9H814;O00159;O75351;Q9H8T0;Q9UK41;Q9H9E3;O43768;Q92681;Q9UKK6;Q96D46;P11166;Q9BY43;Q92621;Q13428;Q9BXF6;O95373;Q15437;P55060;Q92973;Q9Y3A3;Q9UBF2;Q9HD26;Q13838;P49257;Q96QU8;Q9H444;Q69383;Q8N6T3;Q9Y678;Q9Y2L5;O15069;Q15035;Q8TEX9;Q8TCS8;Q96G01;Q13765;P0DI81;P42704;Q8N1B4;Q9NUU7;P55735;Q13228;A9QM74;Q676U5;Q9HA38;P52948;P54105;O14576;A6NF01;Q86VQ0;Q96QD9;Q8TD16;Q9UKX7;Q9BYV8;O95159;Q3ZCQ8;P61571;P61579;O96018;Q8NI27;P53680;Q92783;Q9NZZ3;Q8NFH5;Q99689;P61572;O14787;O14964;O43615;O75558;O14980;O95486;P61575;O94973;Q96PC3;Q7Z6B0;O75382;O75436;P35658;P68871;Q9NUL3;Q9P1Q0;P0DI82;Q2VPB7;P84022;Q9NPG2;P53618;Q9NT62;P60520;Q9H2G9;Q9Y6B7;Q9H009;Q99766;Q86WG3;Q99996;P53677;O43933;Q99567;P52292;Q6ULP2;Q9UBQ0;O15127;Q9NPA8;A6NIH7;P61574;Q8WUM4;Q9Y6D6;Q13432;O15397;P69891;Q02410;Q9NRA8;Q5HYI7;Q96KG9;P63010;Q92945;Q9H2T7;P49792;Q13505;P52298;Q9Y3R5;Q92572;O75865;Q9UM54;P61966;Q13618;P59780;Q9BVL2;Q96HA1;Q53G59;P11441;P61578;Q96NA2;Q9Y6Q5;Q8N0Z2;O95271;Q9BT04;O00505;O94855;O75381;P35606;Q8NEZ2;Q9NZ52;P14672;O60684;Q96KP1;Q8IUD2;Q6PD74;Q96EY5;Q9Y5L0;O43592;Q96ED9;Q9UND3;Q7Z3B4;Q9UNH7;Q9UN37;Q9GZM8;O14662;Q9Y3E7;Q8TF09;Q9HD42;P52294;O00161;Q6I9Y2;P49790;Q9UID3;P63167;O60645;P53992;Q05084;Q9BSW2;Q96N16;Q9H0R1;O60784;O95721;O00189;Q96GV9;Q86SZ2;Q99698;O00410;Q99747;Q9Y5S9;Q6IS14;Q9NVU7;Q96CW6;O75674;Q96QF0;O95782;P36543;Q9H1J1;A5D8V6;Q8IUR0}

11812

Pathogen[ P14079] interacts with 530 human

partners: {P31751;P36543;Q13228;Q15629;Q8NFH5;Q9BXW6;Q96QK1;Q9H9H4;Q6NUQ1;O95373;P0CG08;O75886;Q8TF09;Q9Y296;Q96CW1;O95070;O95159;Q8WMM9;Q3ZCQ8;O14810;P36542;O43615;Q96G79;O15069;Q9Y5K8;O95166;Q7L804;Q9BW27;Q8N4H5;P02042;Q6ZVE7;Q14746;Q96NA2;Q53S99;Q96HA1;Q86VN1;Q9UNH7;Q9UL33;Q5HYI7;Q969M3;P49257;Q9NPG2;P61923;O15027;P61970;P69891;Q86SZ2;Q96CF2;Q9Y6Q5;Q96EY5;Q15036;P61966;Q9Y4E1;Q6ULP2;Q05084;P56134;Q6ZVM7;Q9BXS5;P60468;Q9Y3D7;O14828;Q86WG3;P63172;O43745;Q99996;Q9NT62;Q9UJY4;Q9UJC3;Q92681;Q96H20;P83436;Q9UID3;Q1HG44;O43768;P47224;P51808;Q13765;P02100;A6NIH7;P25705;P61421;Q9H009;Q9UKF7;Q96P70;Q9NVU7;O95487;Q8NBQ7;Q6NVV3;P61576;Q16517;Q8WWL2;Q9H0U6;Q1HG43;O60664;P62072;Q9H4D5;Q9BRL7;Q0D2K0;O95271;Q86VI4;Q9H9C1;Q13505;Q96RQ1;Q96FJ2;Q8TAG9;Q9NWF4;Q2VPB7;Q86VS8;Q9UJY5;P05408;P57740;O60493;Q8N1F7;Q7L5D6;Q6IS14;Q9NPJ8;Q86XT2;P52298;P35658;Q9H1K0;P35606;Q9BY43;Q63HQ0;Q9P0U1;P27352;Q96ED9;Q9UPM8;Q8WVT3;Q13618;Q9H1J1;Q9H0Y0;Q02410;P14672;A6NF01;O00400;O00471;Q9BVK6;Q10567;A8CG34;Q9Y5S9;O43592;Q9Y6D5;Q9NP79;Q9ULU8;Q9BSW2;Q14204;Q96BW9;Q15276;Q9H7P6;P42566;P56377;Q92621;O75865;P52294;P09105;O60518;Q9Y2T2;Q9Y678;Q6VEQ5;Q92783;P56385;Q9Y6B7;Q96B49;Q8TEM1;P61579;Q7LBR1;Q8NE01;Q9H8T0;Q13428;Q86TL0;Q5VTU8;O60684;Q8WV83;Q8NI27;P59780;O94855;O00189;Q9P1Q0;P42704;Q8H7I9;Q9UBU9;P52594;Q9HD42;Q13838;Q75674;O60645;Q92624;Q8NE86;Q8N9S9;O60895;Q99442;Q96D46;Q86YS3;A1A5B4;Q9NRS6;P53992;P69905;Q9Y5J7;Q9UJ41;Q14847;Q99747;Q9H1B4;Q9UM54;O60784;Q8IUD2;Q96L92;Q9UPT5;Q7Z3C6;Q9H3E2;O15155;O75352;P11166;P05413;Q5T1Q4;Q4G0F5;Q96NT5;Q9UKK3;O14925;Q0VD83;P02008;Q9NS69;Q9NQ90;O95149;Q96JE7;Q9Y4P1;Q96N16;Q8IUR0;Q9H5N1;Q9H269;P33947;Q7Z4Y8;Q92572;Q9NS52;Q96KP1;Q96FV9;Q9BVV7;Q9NP97;O00461;Q9UKX7;Q15363;Q15388;O75843;Q9BUM8;O75558;Q15012;O75396;Q9BVL2;O75431;Q9Y2V7;Q7Z7G8;Q13769;P24390;Q9H2G9;O15504;O00186;Q9HD26;Q9NUP9;P68871;O95721;Q6PUV4;Q08AE8;Q5JWR5;Q96CW6;Q15833;P36405;Q9Y3A3;P61572;Q6I9Y2;P50542;P61326;Q8N609;Q96RL7;Q8WUM0;Q9HC62;P60520;O95782;Q99689;Q5T215;P12270;Q53GS7;P03928;Q9UND3;Q8WTW3;Q53FT3;Q86UW1;Q9Y5X2;Q9BXF6;Q96T51;O94829;Q6N075;Q8NC96;Q8TAC9;Q8WYP5;O43681;Q9BZI7;Q9NQA3;Q969E2;O00410;Q969X5;O96018;O43633;Q9UN42;Q15121;P49755;Q9P299;Q8WUM4;Q9Y6X1;P61573;Q641Q2;Q9NUL3;Q9Y6D6;Q7Z392;Q9BYT9;Q9HAB3;Q9UI26;Q99567;P61571;Q9NVZ3;Q92945;Q8WUX9;Q5JRA6;Q14974;P55060;Q92973;Q96QF0;Q86V81;Q9UBF2;Q96AX1;Q12981;Q9UP83;Q8N8Q9;Q9H1H9;Q9NZ43;P05814;Q9UKK6;A5D8V6;Q8NFH3;O60749;Q96ES6;Q8N8Y2;Q9P253;Q96EE3;Q7Z412;Q6PD74;Q9H8V3;Q9HA6;Q8NEZ2;P37198;Q5VIR6;O14653;Q9Y5U8;Q13409;Q53HI1;P51811;O43264;Q8IWI2;Q9NV70;P60059;P63010;Q99766;Q15035;O15397;P49790;P53677;Q9BQQ3;Q9HA38;P61574;A9QM74;Q6ZP65;O14662;Q9H115;Q13596;O00505;Q9H6Z4;B7ZAQ6;Q8N4Q1;O94973;Q5T2W1;Q8WVH0;Q9GZM8;Q8N1B4;Q8N2H4;Q96G01;P48444;O75964;Q9UN37;Q8TEX9;Q7Z614;O60831;Q96FZ7;P63241;Q99595;Q8N0Z2;Q8N612;O60296;Q9Y5R8;Q96MW5;Q6B0K9;Q96A65;Q8IYI6;Q13367;Q13432;Q8NFH4;Q8WV19;Q93050;Q14764;Q9H0R1;A8K0Z3;O43299;O43747;O60220;P63167;Q9UBQ0;Q7Z3B4;O43752;O95563;O15078;Q06787;O14579;Q9Y3E7;Q9UI12;O14787;Q9UIA9;P55735;Q96BY9;P56381;Q8WV92;Q7Z7G2;Q92543;Q9H9E3;O75154;Q9Y3E0;O95670;O75381;Q676U5;P49321;Q9HAV4;Q96AA3;Q5SRD1;Q9UMY4;O75351;P0DI82;P49754;P48553;Q96JB2;Q9NUS5;O14617;Q9NZZ3;P62826;P0DI81;O75436;P02144;O14576;Q01469;Q8IZS6;O95486;Q53G59;Q9H444;Q9BRG1;O00244;Q9Y3R5;Q12769;O95235;Q96PC3;Q99698;Q9Y2D4;Q7RTP0;Q16864;Q9H2T7;Q96QD9;Q99816;Q9BX66;Q9UM29;P24539;P54105;Q86VQ0;Q8IY50;Q9Y5L0;P69892;P61578;O43617;Q9Y5J9;Q9NUN5;P61575;Q9NRA8;Q5SRE5;Q9GZV4;Q9NQ40;O15234;O75694;O00629;P53680;P52292;O75382;Q8TD16;Q9BYV8;Q9Y5L4;P54920;Q9NPA8;O15131;Q9C0E2;Q14203;Q8TCS8;Q9BTX1;Q15849;Q09161;P11441;Q99767;Q9Y587;Q9H6F2;O60763;Q5SNT6;Q9H267;Q9H089;Q9UQN3;Q8IUR6;P30622;P52948;Q9NZD2;Q7Z6B0;Q69383;Q96KG9;Q9Y2L5;Q96GV9;Q9BT04;O43731;Q9H814;Q9HD47}

11813

Pathogen[ P03383] interacts with 306 human

partners: {Q96BW9;Q9BVL2;Q92681;Q9H1B4;O96018;Q96EE3;O15504;Q13228;Q96CW1;Q8WUM0;Q9UI

26;Q9UJY4;Q7L5D6;Q9HD47;Q7L804;Q9UBU9;Q8IWIJ2;O15234;Q9Y5J7;P56377;O15126;Q92621;Q14746;P49792;Q8NFH4;Q8NI27;P61574;Q7Z3C6;Q9UIA9;Q9H9E3;O15397;O14579;Q92572;Q8IUR6;Q9NPA8;P51808;Q7Z6B0;Q9UP83;P61572;A6NF01;P55735;Q96QF0;O94829;P53618;Q9H4D5;P54105;Q8WUX9;P62072;P83436;Q9Y678;Q96RL7;Q8N1B4;P54920;Q96H20;O95487;O43264;P61571;P12270;Q96FJ2;Q5T2W1;Q13769;Q9UL33;Q13838;Q9HD26;A8CG34;Q86G33;Q9Y5S9;Q8TAC9;P52948;Q9H7P6;P31749;P63172;Q14203;Q9Y3E7;Q9BUN8;P57740;Q9Y4P1;Q99689;Q10567;Q8NFH5;Q96P70;O14925;Q8WY P5;Q9NZZ3;O43615;Q96FV9;Q06787;O00186;Q9H9C1;P69905;P61326;Q9GZV4;P75886;P61573;Q8N1F7;Q96JB2;Q9H2G9;P68871;P38919;Q8NEZ2;Q15121;Q99816;O95486;Q8IYI6;Q8TCS8;Q9Y296;Q9Y6D6;Q9NT62;O00505;P49321;P61575;Q7Z614;Q86V81;Q8TEM1;O60220;Q9Y4E1;Q9NUS5;P49754;Q53GS7;P63241;O00189;Q96KP1;Q13432;P53677;Q15436;Q13618;Q96D46;Q12769;Q8N2H4;Q8N612;A9QM74;Q96B49;Q9H1H9;P62826;P11168;Q8WTW3;Q99161;Q6PD74;Q99567;Q96L92;O15069;Q05084;Q8IUR0;O60296;Q13428;Q15629;Q9Y3R5;Q9BW27;P55060;P84022;P52292;Q99747;O75558;Q96N16;Q9H8T0;Q92945;Q9UK41;Q7LBR1;Q86VQ0;Q9H2T7;O75843;O43633;Q9Y5J6;Q9Y2T2;Q92973;P63010;Q9BSW2;O43768;Q53G59;O14980;O43747;Q15437;Q9HAV4;O94855;O00471;O15078;Q9UJY5;Q15388;Q9BXF6;O43617;Q9H444;O75865;Q9NP97;P0DI82;Q96QD9;Q5HYI7;O75381;Q9H9H4;Q13765;O95149;P0DI81;O43745;Q676U5;O95782;Q9BYV8;Q9BTX1;Q86VS8;Q9C0E2;Q9UBF2;Q9BRG1;Q8N0Z2;O14787;Q14974;Q96ED9;O43299;Q9HD42;Q9P0U1;O15027;O60784;Q5SRE5;O15131;Q92783;P52298;O75436;P35658;Q9P1Q0;Q9UKK3;O15127;Q9H009;Q96HA1;P61579;Q96QK1;Q9H6Z4;Q96JE7;Q13367;Q53FT3;Q6ULP2;Q9UND3;Q9HC62;P53992;Q96QU8;P11169;A6NIH7;P42704;O60645;Q8WUM4;O43752;O60518;Q9NRA8;Q02410;Q99996;O95373;Q69383;Q8TF09;Q6NUQ1;O60831;P61970;O43592;P36543;P37198;Q9UKX7;P11441;O00161;Q9BXS5;O95271;Q8IUD2;Q9UBQ0;Q92624;Q9NUL3;Q9UPT5;P14672;P61576;Q9Y3A3;O60664;O94973;P63167;Q9Y5L0;O00629;Q9Y5J9;O14964;Q63HQ0;P61578;Q7Z3B4;Q9BT04;Q86V N1;Q9UN37;P24539;P52294;P52594;Q6I9Y2;P49790;Q14764;Q96EY5;O75694;O75154;O14910;Q9NP J8;Q96GV9;Q9UQN3;Q86SZ2;Q96NA2;Q8NFH3;O00410;Q2VPB7;Q15276;Q5VIR6;Q9UKK6;Q9H814;Q9NV U7;Q96CW6;Q9H0U6;P22732;Q9NZ52;Q9BZI7;Q9H1J1;Q13505}

11814

Pathogen[ P03410] interacts with 566 human

partners: {P84022;Q8N4H5;Q99567;Q6PD74;Q9Y6G9;Q9H0Y0;Q13838;Q8NC96;Q9NQ90;Q5SNT6;P0DI82;Q9Y6Q5;Q5SRD1;Q14204;P49321;Q9UPM8;Q7Z3B4;P61576;O95563;O00203;Q9BW27;Q6B0K9;Q96018;Q7L804;Q9Y5L4;Q8IZS6;O95782;Q92945;Q0D2K0;Q96PC3;Q86SZ2;Q53G59;O75154;Q96CW1;Q86VQ0;Q96RL7;P61578;Q969F2;O14910;Q9H267;Q9H2G9;P22732;Q6N075;Q15121;Q9UJC3;P51808;P51161;O75865;Q9NAA4;Q6ZVM7;Q9H1M0;P02008;P52594;O14828;Q14974;Q8TCS8;P61326;P62072;A9QM74;P02144;Q15833;Q96B49;O15234;O43633;O00505;A6NF01;Q7Z614;Q9NZ43;P47710;Q9Y2L5;Q9UP T5;Q13409;P30622;Q99766;P02100;Q9BXS5;Q96L92;Q13190;Q99442;Q8N8Y2;Q9UJ41;Q9BQQ3;Q15388;P53680;Q9NP97;Q7L5D6;Q9BRV3;Q96JB2;Q8TAC9;Q9H7P6;Q9UP83;Q9H115;Q86XT2;Q9UKX7;O60896;P60468;P49257;Q5T2W1;Q9Y2J0;Q9H9H4;P36542;P60059;Q8TF09;Q13596;P11166;Q99996;O60895;Q1HG43;O94855;Q9Y4P1;Q9GZM8;Q9NZ52;Q969X5;Q9NVZ3;P25705;Q8NI27;Q9NP79;Q7Z392;Q9NUS5;P52294;Q13445;P54105;Q8NFH4;B7ZAQ6;Q86UW1;O75351;P05413;P53992;Q9Y2V7;Q9H1H9;Q08A E8;Q16517;Q9P299;O75674;P55060;O75382;O43747;Q9Y5J7;Q9H3E2;O75843;P61421;Q9ULV0;P48553;O60749;Q13505;O15069;O00400;Q9Y5S9;Q96QU8;P60520;Q5SRE5;P05141;O14810;Q9UL33;P48444;Q96P70;P52948;O15504;Q8N1B4;Q10567;P11168;Q969E2;P35606;Q7Z6B0;Q9NRA8;Q5T215;P36405;Q9HAB3;Q86WG3;Q92572;P63172;O00159;P33947;P59646;O60645;Q9P2W9;Q9H8T0;Q9HD47;O75694;O14662;Q93050;Q96CW6;Q92783;Q9BY43;P31749;P09105;Q99767;O14579;Q96QK1;O43299;P63167;Q9NS69;P56385;Q9NUP9;P02766;Q53FT3;Q1HG44;Q96N16;Q86VS8;O75381;Q86VN1;Q9NQ40;P55157;Q9P253;Q86VI4;Q8WVH0;O60664;Q96HA1;Q9Y3E0;Q9UMY4;Q6NUQ1;Q8N2H4;Q69383;Q8TD16;Q9UK F7;P23786;Q9TEH3;Q9UBX3;Q9Y5R8;Q9BYV8;O00461;Q50084;O14617;Q9H1J1;Q96B99;Q9UJY5;Q9Y587;Q9Y6B7;Q8N609;Q02410;Q9BZI7;Q9H009;Q96FV9;Q8WU76;Q9UMZ2;Q96QD9;O43264;Q8N1F7;A6NI H7;O95249;Q9HAP6;O95219;A5D8V6;Q9UBQ0;Q9UNH7;Q9HD26;O14925;Q9H4D5;Q99595;Q8WWM9;O95166;P56381;Q13336;Q53HI1;Q99816;Q9UM54;Q96MW5;Q86YS3;Q92624;Q8NE86;P61573;Q86TL0;Q9UM R2;Q9BT04;Q9NPA8;Q9Y3E7;P0DI81;Q13618;Q15436;Q8WUX9;Q9BVK6;O14576;Q9H6F2;Q8NEZ2;O60763;Q9Y5L0;P49790;Q9Y6X1;Q9H814;Q14764;Q9UQN3;Q7Z7G2;Q9IUD2;Q9NUN5;Q9HC62;P68871;P61571;O75396;Q96BY9;P12270;Q96KG9;Q969M3;Q15437;Q5VTU8;Q9NUU7;P62826;O00629;Q8TAG9;O60684;Q3ZCQ8;Q8IUR0;P0CG08;Q9BUN8;Q96RQ1;P35658;P52298;P61574;Q96ED9;Q8IY50;O15155;Q92973;Q9HD42;O14787;Q9Y2T2;Q9NP61;Q9UN37;O95271;Q96A65;Q9Y678;Q8NFH5;O94829;Q641Q2;Q9UN D3;Q9Y3A3;Q15629;O43615;O95486;P42704;Q8TEM1;O15127;Q5HYI7;Q15049;Q14847;P03928;Q8WV92;Q15363;Q9BXP6;P05408;Q9UI12;Q15036;O15078;Q9Y3D7;Q96LB4;Q96G01;P24539;Q676U5;Q9H444;Q86V81;Q9NWF4;O60784;Q9UN42;Q15849;Q9NZZ3;Q9Y6D6;Q9Y4E1;Q9H089;Q9H1K0;Q8N9S9;Q9UL U8;Q9NVU7;P53618;Q9UBU9;Q9NT62;O75436;P61923;Q9Y6D5;Q96EE3;Q9H173;Q96JE7;Q9BRG1;Q9NZ D2;P47224;Q8WTW3;Q8N612;Q9H1B4;Q9BYT9;Q9NRS6;Q13769;O95670;P61572;P38919;P49754;Q6VE Q5;Q96F77;Q6PUV4;Q9H0R1;O60296;Q8IUR6;Q9Y5U8;O75964;Q8WWL2;P53677;P02042;O43768;Q9NU L3;O75558;Q96T51;Q9HCU5;P24390;Q9Y5J6;P11169;Q9P1Q0;P63010;Q9NPJ8;Q9H2T7;Q4G0F5;Q96QF0;Q96D46;Q9Y5J9;P50542;Q14746;Q6NVV3;Q9HA38;Q6I9Y2;Q96KP1;Q9NPG2;Q96D96;Q16864;Q8WUM0;Q99698;Q96ES6;Q63HQ0;Q7Z7G8;Q6ULP2;Q13428;P11441;Q9Y296;O43752;Q0VD83;P63241;Q8N8Q9;O95159;A8CG34;Q96GV9;Q9P0U1;Q9UKK3;O15027;Q587I9;O60220;Q9Y2D4;Q96G79;Q9H9C1;Q99161;O14653;Q9NV70;Q8N0Z2;Q96A72;O75352;Q7RTP0;Q6ZP65;Q01469;Q13228;Q96EY5;Q06787;Q15035;O00410;P59780;Q9UI26;P83436;O43745;Q9H8V3;Q5VIR6;O43731;Q9GZV4;Q2VPB7;Q8IUR9;Q6ZVE7;P57740;P55735;Q9H5N1;O00186;P69892;Q12981;O95721;Q13367;Q96NA2;O60831;Q13765;O43617;Q12769;Q7Z3C6;P52292;Q13432;P69905;Q9HAV4;Q96H20;Q8IXU6;O43592;P51811;Q9Y5K8;P61966;Q7Z3 U7;Q9UIA9;O15126;Q96CF2;P61579;Q8WV19;O95562;P27352;Q8WUM4;Q9H6Z4;Q9H269;O15131;Q8WY P5;O43681;Q8NFH3;P42566;O00471;O00161;P61575;Q9BVL2;Q92681;Q7LBR1;A1A5B4;Q5JWR5;Q8WY T3;Q9NQA3;O94973;Q9H9E3;P56377;Q8N4Q1;P18859;O15397;Q9UID3;O75348;Q9UKK6;Q15012;Q99747;Q92543;Q9BTX1;Q9BX66;P36543;Q8IWIJ2;O60518;Q92621;Q9C0E2;Q8IYI6;Q5JRA6;O43237;O75886;Q9UJY4;O60493;P56134;O95070;Q9BXW6;A8K0Z3;O14980;O95373;Q14203;O95487;P05814;P49792;Q15276;Q7Z4Y8;Q9Y5X2;Q9H0U6;Q9UBF2;O95149;Q96AX1;P69891;O75431;Q9BRL7;P61970;P54920;Q99689;Q6IS14;Q53GS7}

11815

Pathogen[ P14075] interacts with 316 human

partners: {P11169;P49321;Q9H6Z4;P42704;Q69383;Q9UI26;Q96RL7;Q9P0U1;P68871;P52292;O436



17;O15131;O14925;P61575;O15234;Q13505;Q9C0E2;P54105;Q9UJY4;Q02410;Q14746;Q9NP97;Q86W  
G3;Q9H2G9;Q9BYV8;Q09161;Q96JB2;Q96EY5;Q9H814;Q53FT3;Q14764;Q9Y5J9;Q96JE7;Q92681;Q96B  
49;Q96D46;Q9BSW2;Q9H1H9;O60645;O15069;O96018;Q8N1B4;Q9NUL3;O94973;P62072;Q8N2H4;Q9H9  
E3;Q96CW1;O75558;O75886;Q86V81;O00186;Q96P70;Q13618;P61576;Q13769;Q96BW9;P61970;Q8N6  
12;Q9H2T7;O14787;O43752;Q9NT62;O15127;P61579;P61326;Q7LBR1;Q9H444;A8CG34;Q96GV9;Q96N  
16;P51808;P57740;Q96KP1;Q8WUX9;Q8WUM4;Q15388;P61572;Q9Y2T2;Q8WYP5;Q9UBF2;Q6NUQ1;Q929  
45;Q53GS7;Q96SZ2;Q92973;P61573;P49792;Q92783;Q9Y4P1;Q8N1F7;Q9NP79;Q99747;Q53G59;Q9NZ  
52;Q9UBQ0;O00629;Q9NPJ8;P54920;Q86VN1;Q676U5;Q9BT04;Q96NA2;Q86VQ0;P22732;Q9UKX7;Q9HD  
26;O60296;Q9GZV4;Q8TF09;O15397;Q7Z614;Q8IUD2;O95159;Q9UK41;O15027;Q9H9C1;Q86VI4;Q156  
29;P63241;O15126;P35658;Q9Y6D6;P12270;Q9HAV4;P63172;A6NF01;P53992;Q9NVU7;Q92621;Q8NE  
Z2;Q8N0Z2;P55735;O00471;Q96H20;P61574;Q7Z392;Q5HYI7;O75381;Q9Y3E7;Q92624;Q8NI27;O004  
61;Q9H9H4;O43592;Q9BTX1;O00505;Q96QD9;Q96HA1;O60831;O14980;Q9BW27;Q75865;O00189;P522  
94;P31749;O95487;Q6I9Y2;Q99996;Q9H8T0;O15078;O14964;Q9UP83;P49754;Q96FJ2;O43768;Q154  
37;Q7Z6B0;O14910;O95373;Q7L804;P61571;O60518;P11441;Q8TEM1;P53618;Q9UQN3;Q9UND3;Q9HC  
62;Q13765;Q8IUR0;Q63HQ0;P0DI81;O95782;Q9NPA8;Q9BUN8;Q96EE3;Q8IWI2;P37198;O60220;O437  
45;O00410;Q5SRE5;P62826;Q9NZZ3;Q06787;O43747;Q9UIA9;Q1HG44;Q9HD47;Q15436;Q9Y3A3;Q925  
72;Q99766;O95149;Q9Y3R5;P24539;Q13228;Q5VIR6;Q5T2W1;O94829;P52594;O75436;O00161;Q9P1  
Q0;Q8NFH3;P63010;Q9H009;Q8TCS8;Q96QU8;Q05084;Q9Y678;Q9H0U6;Q9BXF6;A9QM74;O15504;Q9H7  
P6;Q13428;Q96QF0;Q9Y5S9;Q6ULP2;O75843;Q8TAC9;Q9HD42;A6NIH7;Q9BRG1;Q7L5D6;Q99567;P563  
77;Q9Y5L0;Q9Y5J7;Q12769;Q2VPB7;P11168;Q8IYI6;Q86VS8;P56385;O94855;Q9BXS5;O75154;Q9NR  
A8;Q9UBU9;Q14974;Q14203;P84022;Q9BVL2;Q53HI1;P49790;Q99816;Q9UL33;Q9H1B4;Q8WUM0;O432  
64;Q15121;O95271;P38919;Q9H4D5;Q96FV9;Q13838;Q9Y296;P14672;Q13432;O75694;Q641Q2;O954  
86;Q8IUR6;Q7Z3B4;Q9Y5J6;Q8NFH4;Q9UKK6;Q10567;P63167;P83436;P55060;Q9NS69;Q9Y4E1;Q8NF  
H5;Q9NUS5;Q9UJY5;Q13367;Q7Z3C6;O43615;P0DI82;O60664;O60784;P61578;Q96ED9;Q8WTW3;Q6PD  
74;Q9UN37;P52948;Q96L92;Q15276;P52298;O43299;Q96CW6;Q9UKK3;Q9UPT5;Q99689;Q96QK1;Q9BZ  
I7;P36543;O14579;Q9H1J1;P69905;Q9Y5U8}

11816

Pathogen[ P0C206] interacts with 480 human

partners: {O95271;Q53GS7;Q7Z3C6;P61572;Q96EE3;O14964;Q9BRG1;O14662;O60645;P84022;P536  
80;P63010;Q9Y3A3;Q92621;Q9BVK6;Q4G0F5;P68871;Q96L92;Q9NUP9;O14579;Q8WYP5;Q63HQ0;O151  
31;O43933;O15127;Q9Y5L4;P0DI82;Q9Y5L0;Q9Y678;Q8IUR6;Q15437;Q6B0K9;Q8WUX9;Q9Y6B7;Q9UN  
37;Q8H7I9;Q9U5M4;Q9Y5J6;Q9GZV4;Q8N9S9;Q9BZI7;P83436;O94973;P36543;Q9NEZ2;P49790;O148  
28;Q6IS14;O95149;P52298;Q9Y296;Q9NQ90;P61576;Q9H444;P31749;Q8N6T3;Q7LBR1;O75865;Q9H0  
U6;Q5SRE5;Q9NP97;O14576;O75396;Q8NFH5;Q13432;Q9Y2V7;Q9NUU7;P61326;Q9Y6Q5;Q99766;Q8TC  
S8;Q92572;O43592;O60784;Q969F2;Q641Q2;Q9UKK6;Q9Y3E7;P02100;Q9UNH7;Q9Y5U8;P69892;Q8NC  
96;Q09161;P53618;Q9P299;O43747;Q9BXF6;Q9H9E3;O60518;Q06787;O94855;Q92681;Q8NI27;Q105  
67;O14653;P54920;Q6NUQ1;Q9NVU7;P51161;Q96B49;O60664;Q9NRS6;O95721;Q9Y4P1;O75154;P541  
05;O75381;Q9BT04;Q9Y6D6;A9QM74;Q15121;O75382;Q7Z3B4;Q9Y2J0;Q13228;O43681;Q2VPB7;O437  
52;Q9H0R1;O00629;O60684;P02008;Q9Y2L5;Q9H8T0;P49754;P63167;P36542;Q9H1K0;Q8NE86;P619  
66;Q14974;Q9HC62;Q96HA1;Q9UQN3;Q96PU8;O95070;Q96QV0;O00505;Q96T51;O60220;Q96KP1;Q86V  
Q0;Q86VN1;O60493;Q96P70;P49755;Q5JRA6;P48553;Q99698;Q9UJY4;Q8TF09;O15397;Q96JB2;O608  
31;Q8IUD2;P55735;Q9Y5J9;O94829;Q6ZP65;Q9Y2T2;Q15035;Q14746;Q9UBX3;P29373;Q13596;P628  
26;Q99816;Q5HYI7;P57740;Q96GV9;P11441;P49321;O75558;Q99996;Q9Y3R5;Q92783;Q9Y4E1;Q9H1  
H9;Q969E2;P30622;P47224;P11166;Q1HG44;P50542;Q96KG9;O43237;Q96A65;Q92973;Q15036;O004  
10;Q9GZM8;Q96N16;Q13409;Q8N4Q1;Q9HAV4;O43299;Q9Y5J7;P23786;Q5T2W1;Q5SRD1;Q86VS8;Q9NP  
61;Q9UK41;Q9P1Q0;Q9Y587;Q92624;Q96ED9;Q9H9H4;P69891;Q13769;P05413;Q9NPJ8;O00161;Q96D  
46;Q99689;P59780;Q8N2H4;P53677;Q9NPG2;Q9NZD2;Q8WUM0;Q9UBQ0;P69905;O14787;O43615;P111  
68;Q9H7P6;Q3ZCQ8;Q96QF0;Q99767;P49792;O60749;Q8TEM1;Q9H814;Q1HG43;Q6VEQ5;Q9UKX7;Q9HD  
47;Q9H089;Q14204;Q9UPM8;Q13428;Q9H4D5;Q96FV9;Q9UP83;Q9ULU8;A5D8V6;Q7Z7G2;Q6ULP2;Q9BX  
S5;O15155;O96018;Q13618;Q9Y3D7;O95486;Q9UKK3;Q969M3;Q8WTW3;Q5VIR6;Q13838;Q9NS69;Q96H  
20;Q6ZVE7;Q9N252;Q9UBU9;Q53HI1;Q9Y6D5;Q95373;P51808;Q9UPT5;P35606;Q9NEZ2;Q86S22;Q756  
94;O00159;Q7Z7G8;P61575;P33947;Q9UJY5;Q96JE7;Q86XT2;O00461;P61571;Q9UI12;P24390;P091  
05;P49257;Q8TEX9;O95487;O60763;Q96CW1;Q9BTX1;Q9Y6G9;O60296;O15078;Q9BUN8;Q8IZS6;Q9P0  
U1;Q6PUV4;O43633;O43768;Q8WU76;Q96AX1;P48444;O15234;Q6PD74;O14925;Q9H1B4;Q9NUL3;Q9BY  
V8;P24539;A6NF01;O15069;Q9HA38;Q13505;Q9H8V3;Q5SNT3;Q15388;O14910;Q7Z392;P60520;Q9H2  
T7;P55072;Q8IUR0;Q7Z614;O43617;Q8N612;Q96CF2;Q7L5D6;O95782;Q9H6Z4;Q9UJ41;Q99567;Q9H5  
N1;Q9Y5K8;P55060;O43731;Q16864;P36405;Q9H2G9;Q8NFH4;Q99747;A6NIH7;Q8IYI6;Q8WUM4;Q9BX  
66;P62072;P0CG08;Q12981;Q9BY43;Q9H009;P61574;P42566;Q9UID3;P63241;Q5T215;Q676U5;Q96Q  
D9;Q9UBF2;O75436;Q86TL0;Q969X5;Q9BXW6;P14672;P56381;Q8WWL2;Q15629;O14617;Q9P253;P427  
04;O75843;Q9HD42;Q15849;Q96NA2;Q96RQ1;Q9UN42;Q9UL33;O15504;Q9NP79;A8CG34;Q96QK1;Q9UI  
A9;Q9NZZ3;Q9C0E2;Q12769;Q92945;Q9UJ3;Q7L804;Q9UMR2;P53992;Q96FZ7;Q15363;Q9NT62;Q9NV  
70;P38919;Q9Y5R8;O75886;Q9UND3;Q9BQQ3;Q8N1B4;O75351;Q7Z6B0;Q8TAC9;Q14203;Q53G59;Q014  
69;Q8NFH3;P02042;P52294;Q8N6H7;P63172;Q86WG3;O15126;Q8WV92;Q96PC3;Q9BSW2;O15027;Q86Y  
S3;Q15833;P46379;O95159;Q8N1F7;Q9NPA8;P61579;Q8N0Z2;O75674;O43264;O00189;Q8TD16;Q137  
65;O43745;Q9H9C1;Q8N4H5;Q53FT3;P61970;Q9HD26;P56385;P52292;P61578;P35658;Q95166;Q9H2  
67;O00471;Q8IWI2;Q13367;Q9P2W9;Q6I9Y2;Q05084;Q8WMM9;Q08AE8;Q96RL7;Q15276;Q8TAC9;Q9BW  
27;Q69383;Q96EY5;Q5JWR5;Q9BVL2;Q96CW6;P56377;Q93050;Q9Y5S9;Q86V81;Q9UI26;Q14764;P0DI  
81;O00186;P61923;P12270;Q9NRA8;Q9NUS5;B7ZAQ6;Q96G01;Q96BW9;Q9BRL7;Q9H1J1;Q02410;P615  
73;Q15436}

11817

Pathogen[ P03363] interacts with 366 human

partners: {O60763;Q53FT3;Q96D46;P49754;P46379;Q08AE8;Q86VS8;O14787;Q9UID3;Q06787;Q53G  
S7;Q7Z3B4;Q92973;Q9GZV4;P69905;Q9H4D5;Q96J01;Q9Y2T2;O43933;Q9UNH7;O60664;P38919;P631  
67;Q7L804;P11441;O60645;O60684;Q96ED9;Q5SRE5;Q9NRA8;Q86VQ0;P12270;Q9BYV8;Q9BX66;Q9H9  
F1;Q13367;Q8NFH4;Q13428;Q9UND3;P49321;Q9UP83;Q92543;P36543;P68871;O43747;Q9HAV4;Q9BZ  
F3;Q9UJY4;P61970;Q99996;P48444;O75886;Q63HQ0;P0DI81;Q96L92;O15078;Q96L92;Q8N1B4;Q96905;Q9Y3  
R5;Q13228;A9QM74;Q8WYP5;Q9H444;O95219;Q8IYI6;Q92783;Q8NFH3;Q9NVU7;O14980;O00471;Q127  
69;O00410;Q13283;Q96QK1;Q96A65;Q9Y678;P53677;O14910;Q9H2T7;Q69383;Q13618;O00505;O607



84;Q15388;P09651;O14925;Q9NZ52;Q9NUU7;Q14847;O43264;Q9NUL3;Q01469;O75436;P42704;Q6NU  
Q1;A6NF01;Q96P70;Q9UL33;Q13769;Q14204;P54920;Q9H9E3;Q15121;O75558;Q15436;Q9NUS5;Q9Y2  
L5;A8CG34;P83436;Q8WU76;Q9NZZ3;Q9UKX7;O15069;Q9Y6B7;O14579;Q9C0E2;Q3ZCQ8;Q13765;O954  
86;Q9UBU9;P51161;Q9NT62;P53618;P60520;Q8NI27;Q32P51;P61575;Q96H20;Q96FV9;Q9UMY4;Q9BX  
S5;O00629;O60493;Q9HD47;Q96T51;Q9P299;Q9H0U6;O94973;Q96PU8;P61923;Q9P1Q0;P61326;Q8N0  
Z2;P0DI82;Q8NAA4;O60296;Q6ZP65;O60749;Q9UJ41;P54105;Q96QD9;Q14746;O75351;Q8IZS6;Q9P2  
W9;Q96BW9;Q92572;P61578;Q9Y4E1;O43615;Q8WUM0;Q9BVL2;Q96QU8;Q99567;P30622;P29373;Q9JW  
R5;Q9UN37;Q8TF09;Q6ULP2;Q5VWJ9;Q8WUM4;Q9H0R1;Q86WG3;Q86VN1;P63172;Q92945;Q99698;Q9BX  
W6;P61571;Q9BRG1;O95721;Q9H267;Q15035;P31749;Q9UKK3;Q13432;Q96KP1;Q9HC62;Q7Z3C6;Q024  
10;Q9BSW2;Q9Y5J7;Q9P0U1;Q9UK41;O75381;Q8TEX9;P02766;Q86V81;Q96KG9;P05413;P63010;O756  
74;Q9Y3E7;Q9NPF8;P84022;Q05084;Q7LBR1;O43768;Q95271;Q96HA1;P49792;P52298;Q138  
38;P35658;Q9BT04;Q53G59;Q9NPA8;Q14974;Q8WTW3;Q9H8T0;O75694;Q9UKK6;P49790;O00189;Q9Y5  
L0;Q13409;P61572;O14964;O00186;Q96EY5;P51808;O75154;Q7Z614;P61574;O75382;P57740;Q9BX  
F6;Q9UBQ0;Q619Y2;Q5VIR6;Q6FIF0;Q9UMR2;O95782;Q9BTX1;Q9H2G9;O94829;A6NIH7;Q9Y5K8;Q8WV  
92;Q92681;Q8IWI2;P63241;Q5HYI7;O15126;P35606;Q96RL7;Q8NEZ2;Q96GV9;O15131;O14662;Q2VP  
B7;Q9H6Z4;P14672;Q96A72;Q96NA2;Q8IUR6;Q9UBF2;Q9BZI7;Q8N612;Q6PD74;P53992;O75843;Q9UK  
F7;Q9UI26;O95487;Q99816;O95373;P52948;Q13596;Q9Y296;P61579;O15127;O43745;Q9Y4P1;O436  
17;Q9UQN3;Q9Y3A3;O15504;Q9H7P6;Q9H1H9;P52594;Q6IS14;O00161;P55060;Q9NP97;Q9H009;Q7Z6  
B0;Q9NP79;Q9NS69;Q9Y6D6;Q9NUP9;P37198;P48553;Q676U5;P62826;Q9H9H4;O43592;P52292;Q8N1  
F7;Q9UJY5;O43752;Q96N16;O43237;Q92621;Q8TD16;Q14764;Q8NFH5;O60518;Q5T2W1;O96018;Q8WW  
L2;Q8IUD2;Q7L5D6;Q95166;Q96FJ2;Q95149;P55735;Q14203;Q99767;Q99747;Q9HD26;O95833;P111  
66;Q9Y5S9;Q9H814;O94855;Q8WUX9;Q15276;O14576;Q10567;Q9H1B4;Q9BW27;Q9UIA9;P61573;Q96C  
W6;P61576;Q9HD42;O15397;Q9UPT5;Q96QF0;Q96CW1;Q09161;Q15833;O43299;Q99689;Q9H1J1;P522  
94;O15234;Q9UPM8;Q96CF2;Q4G0F5;A5D8V6;Q9UJC3;Q96JB2}

11818 [Cluster 1075]GO:0035136+P biological\_process [name] forelimb morphogenesis [def]  
"The process in which the anatomical structures of the forelimb are generated and  
organized." [GOC

11819 Pathogen[ Q2Q067] interacts with 3 human partners:{Q05516;P28356;Q9NSC2}  
11820 Pathogen[ P0C214] interacts with 2 human partners:{Q9NSC2;Q05516}  
11821 Pathogen[ P03346] interacts with 7 human  
partners:{Q9BXA9;Q9NSC2;P28358;P28356;Q05516;Q92481;Q99593}  
11822 Pathogen[ Q85601] interacts with 2 human partners:{Q05516;Q9NSC2}  
11823 Pathogen[ P14079] interacts with 2 human partners:{Q05516;Q9NSC2}  
11824 Pathogen[ P03383] interacts with 2 human partners:{Q05516;Q9NSC2}  
11825 Pathogen[ P03410] interacts with 1 human partners:{Q9NSC2}  
11826 Pathogen[ P14075] interacts with 2 human partners:{Q9NSC2;Q05516}  
11827 Pathogen[ P0C206] interacts with 3 human partners:{Q9NSC2;Q05516;P28356}  
11828 Pathogen[ P03363] interacts with 3 human partners:{P28356;P28358;Q05516}  
11829 [Cluster 1076]GO:0048608+P biological\_process [name] reproductive structure  
development [def] "The reproductive developmental process whose specific outcome is the  
progression of structures that will be used in the process of creating new individuals  
from one or more parents, from their formation to the mature structures." [GOC

11830 Pathogen[ Q2Q067] interacts with 3 human partners:{Q12959;P35869;P20823}  
11831 Pathogen[ P0C214] interacts with 2 human partners:{P35869;Q12959}  
11832 Pathogen[ P03346] interacts with 4 human partners:{P20823;O43680;P35869;Q12959}  
11833 Pathogen[ Q85601] interacts with 3 human partners:{Q12959;P35869;P20823}  
11834 Pathogen[ P14079] interacts with 1 human partners:{P35869}  
11835 Pathogen[ P03383] interacts with 1 human partners:{P35869}  
11836 Pathogen[ P03410] interacts with 1 human partners:{Q12959}  
11837 Pathogen[ P14075] interacts with 1 human partners:{P35869}  
11838 Pathogen[ P0C206] interacts with 3 human partners:{P35869;P20823;Q12959}  
11839 Pathogen[ P03363] interacts with 2 human partners:{Q12959;P35869}  
11840 [Cluster 1077]GO:0090231+P biological\_process [name] regulation of spindle checkpoint  
[def] "Any process that modulates the rate, frequency, or extent of the spindle  
checkpoint, a cell cycle checkpoint that delays the metaphase/anaphase transition until  
the spindle is correctly assembled and oriented, and chromosomes are attached to the  
spindle." [GOC

11841 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96SN8}  
11842 Pathogen[ P0C214] interacts with 1 human partners:{Q96SN8}  
11843 Pathogen[ P03346] interacts with 2 human partners:{Q96SN8;Q9H0E7}  
11844 Pathogen[ Q85601] interacts with 2 human partners:{Q9H0E7;Q96SN8}  
11845 Pathogen[ P14079] interacts with 1 human partners:{Q96SN8}  
11846 Pathogen[ P03383] interacts with 1 human partners:{Q96SN8}  
11847 Pathogen[ P03410] interacts with 1 human partners:{Q96SN8}  
11848 Pathogen[ P14075] interacts with 1 human partners:{Q96SN8}  
11849 Pathogen[ P0C206] interacts with 2 human partners:{Q96SN8;Q9H0E7}  
11850 Pathogen[ P03363] interacts with 1 human partners:{Q96SN8}  
11851 [Cluster 1078]GO:0045415+P biological\_process [name] negative regulation of  
interleukin-8 biosynthetic process [def] "Any process that stops, prevents, or reduces  
the frequency, rate or extent of the chemical reactions and pathways resulting in the  
formation of interleukin-8." [GOC

11852 Pathogen[ Q2Q067] interacts with 1 human partners:{P20749}  
11853 Pathogen[ P0C214] interacts with 1 human partners:{P20749}  
11854 Pathogen[ P03346] interacts with 1 human partners:{P20749}  
11855 Pathogen[ Q85601] interacts with 1 human partners:{P20749}  
11856 Pathogen[ P14079] interacts with 1 human partners:{P20749}

11857 Pathogen[ P03383] interacts with 1 human partners:{P20749}  
11858 Pathogen[ P03410] interacts with 1 human partners:{P20749}  
11859 Pathogen[ P14075] interacts with 1 human partners:{P20749}  
11860 Pathogen[ P0C206] interacts with 1 human partners:{P20749}  
11861 Pathogen[ P03363] interacts with 1 human partners:{P20749}  
11862 [Cluster 1079]GO:0042711+P biological\_process [name] maternal behavior [def]  
"Female behaviors associated with the care and rearing of offspring." [GOC  
11863 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9UBB5;O60535}  
11864 Pathogen[ P0C214] interacts with 3 human partners:{O60535;Q8IXF0;Q9UBB5}  
11865 Pathogen[ P03346] interacts with 3 human partners:{Q8IXF0;O60535;Q9UBB5}  
11866 Pathogen[ Q85601] interacts with 3 human partners:{Q8IXF0;O60535;Q9UBB5}  
11867 Pathogen[ P14079] interacts with 2 human partners:{Q9UBB5;Q8IXF0}  
11868 Pathogen[ P03383] interacts with 2 human partners:{Q9UBB5;O60535}  
11869 Pathogen[ P03410] interacts with 3 human partners:{Q8IXF0;O60535;Q9UBB5}  
11870 Pathogen[ P14075] interacts with 2 human partners:{Q9UBB5;O60535}  
11871 Pathogen[ P0C206] interacts with 3 human partners:{Q9UBB5;O60535;Q8IXF0}  
11872 Pathogen[ P03363] interacts with 3 human partners:{O60535;Q8IXF0;Q9UBB5}  
11873 [Cluster 1080]GO:0051781+P biological\_process [name] positive regulation of cell  
division [def] "Any process that activates or increases the frequency, rate or extent  
of cell division." [GOC  
11874 Pathogen[ Q2Q067] interacts with 4 human partners:{Q6ZN28;P67809;Q1MSJ5;O00255}  
11875 Pathogen[ P0C214] interacts with 4 human partners:{Q1MSJ5;P67809;Q6ZN28;O00255}  
11876 Pathogen[ P03346] interacts with 5 human  
partners:{P17542;P67809;O00255;Q1MSJ5;Q6ZN28}  
11877 Pathogen[ Q85601] interacts with 4 human partners:{Q1MSJ5;O00255;P67809;Q6ZN28}  
11878 Pathogen[ P14079] interacts with 5 human  
partners:{P67809;Q1MSJ5;Q9NS71;Q6ZN28;O00255}  
11879 Pathogen[ P03383] interacts with 4 human partners:{Q1MSJ5;Q6ZN28;O00255;P67809}  
11880 Pathogen[ P03410] interacts with 5 human  
partners:{Q9NS71;P67809;Q1MSJ5;Q6ZN28;O00255}  
11881 Pathogen[ P14075] interacts with 5 human  
partners:{O00255;P67809;Q6ZN28;Q9NS71;Q1MSJ5}  
11882 Pathogen[ P0C206] interacts with 4 human partners:{P67809;O00255;Q6ZN28;Q1MSJ5}  
11883 Pathogen[ P03363] interacts with 3 human partners:{Q1MSJ5;Q6ZN28;P67809}  
11884 [Cluster 1081]GO:0032689+P biological\_process [name] negative regulation of  
interferon-gamma production [def] "Any process that stops, prevents, or reduces the  
frequency, rate, or extent of interferon-gamma production. Interferon-gamma is also  
known as type II interferon." [GOC  
11885 Pathogen[ Q2Q067] interacts with 1 human partners:{P04156}  
11886 Pathogen[ P0C214] interacts with 1 human partners:{P04156}  
11887 Pathogen[ P03346] interacts with 1 human partners:{P04156}  
11888 Pathogen[ Q85601] interacts with 1 human partners:{P04156}  
11889 Pathogen[ P14079] interacts with 2 human partners:{P04156;O95760}  
11890 Pathogen[ P03383] interacts with 1 human partners:{P04156}  
11891 Pathogen[ P03410] interacts with 2 human partners:{O95760;P04156}  
11892 Pathogen[ P14075] interacts with 1 human partners:{P04156}  
11893 Pathogen[ P0C206] interacts with 1 human partners:{P04156}  
11894 Pathogen[ P03363] interacts with 1 human partners:{P04156}  
11895 [Cluster 1082]GO:0046209+P biological\_process [name] nitric oxide metabolic process  
[def] "The chemical reactions and pathways involving nitric oxide, nitrogen monoxide  
(NO), a colorless gas only slightly soluble in water." [GOC  
11896 Pathogen[ Q2Q067] interacts with 8 human  
partners:{P31749;P30793;P07900;O00401;P29474;Q03393;P30047;Q9Y314}  
11897 Pathogen[ P0C214] interacts with 11 human  
partners:{P29474;O75608;P35270;P00374;Q03393;P30793;Q8IVI9;O00401;P30047;P31749;Q9Y3  
14}  
11898 Pathogen[ P03346] interacts with 9 human  
partners:{O75608;P07900;P29474;Q8IVI9;Q03393;P30047;P31749;O00401;Q9Y314}  
11899 Pathogen[ Q85601] interacts with 8 human  
partners:{O00401;P31749;P30793;P30047;Q8IVI9;P07900;P29474;Q9Y314}  
11900 Pathogen[ P14079] interacts with 9 human  
partners:{P00374;Q9Y314;O75608;P30793;Q8IVI9;P07900;Q03393;P30047;O00401}  
11901 Pathogen[ P03383] interacts with 6 human  
partners:{P29474;P31749;P07900;O00401;P30047;Q9Y314}  
11902 Pathogen[ P03410] interacts with 11 human  
partners:{P30047;P00374;Q8IVI9;O00401;P31749;P07900;P30793;P29474;O75608;Q9Y314;Q033  
93}  
11903 Pathogen[ P14075] interacts with 7 human  
partners:{P29474;P07900;P31749;O00401;P30047;P30793;Q9Y314}  
11904 Pathogen[ P0C206] interacts with 10 human  
partners:{P31749;O75608;P30793;P30047;P07900;O00401;P29474;Q03393;Q8IVI9;Q9Y314}  
11905 Pathogen[ P03363] interacts with 7 human  
partners:{P29474;P07900;Q8IVI9;P31749;O00401;P30047;Q9Y314}  
11906 [Cluster 1083]GO:0000096+P biological\_process [name] sulfur amino acid metabolic  
process [def] "The chemical reactions and pathways involving amino acids containing  
sulfur, comprising cysteine, homocysteine, methionine and selenocysteine." [GOC

11907 Pathogen[ Q2Q067] interacts with 7 human  
partners:{Q96GX9;Q9BV57;Q9BV20;Q9Y697;Q9UBX3;P32929;O95571}

11908 Pathogen[ P0C214] interacts with 13 human  
partners:{Q9BV57;Q96GX9;P32929;O95571;Q9UBX3;Q9Y697;Q9UHY7;Q13126;P23526;P35520;Q16762;Q9BV20;Q9NZL9}

11909 Pathogen[ P03346] interacts with 10 human  
partners:{P23526;Q9BV20;Q9UBX3;Q9NZL9;Q9BV57;Q9Y697;P32929;Q9UHY7;Q96GX9;O95571}

11910 Pathogen[ Q85601] interacts with 9 human  
partners:{Q9UBX3;Q9Y697;Q96GX9;Q9BV57;Q9UHY7;P23526;Q9BV20;O95571;P32929}

11911 Pathogen[ P14079] interacts with 11 human  
partners:{Q96KP4;Q9BV20;Q9NZL9;O95571;Q96GX9;Q9Y697;P32929;Q16762;Q16878;P23526;Q9BV57}

11912 Pathogen[ P03383] interacts with 5 human  
partners:{Q9Y697;Q9BV57;Q96GX9;Q9BV20;O95571}

11913 Pathogen[ P03410] interacts with 10 human  
partners:{P32929;Q9Y697;Q9UBX3;Q9BV20;O95571;Q16762;Q96GX9;P23526;Q9BV57;Q9NZL9}

11914 Pathogen[ P14075] interacts with 5 human  
partners:{Q96GX9;Q9BV57;Q9BV20;O95571;Q9Y697}

11915 Pathogen[ P0C206] interacts with 11 human  
partners:{Q9NZL9;Q9BV20;Q9Y697;Q9UBX3;Q9UHY7;P32929;P23526;Q9BV57;Q96GX9;Q16762;O95571}

11916 Pathogen[ P03363] interacts with 5 human  
partners:{Q9Y697;O95571;Q9BV57;Q9BV20;Q96GX9}

11917 [Cluster 1084]GO:0006297+P biological\_process [name] nucleotide-excision repair, DNA gap filling [def] "Repair of the gap in the DNA helix by DNA polymerase and DNA ligase after the portion of the strand containing the lesion has been removed by pyrimidine-dimer repair enzymes." [ISBN

11918 Pathogen[ Q2Q067] interacts with 10 human  
partners:{Q15054;P27694;P35244;P49005;P12004;P06746;P15927;P56282;Q9HCU8;P35251}

11919 Pathogen[ P0C214] interacts with 9 human  
partners:{P06746;P35251;P49005;Q9HCU8;P15927;P35244;Q15054;P27694;P56282}

11920 Pathogen[ P03346] interacts with 13 human  
partners:{P12004;Q9HCU8;P27694;P35244;P35250;P56282;P49005;P15927;P35249;P35251;P40937;P06746;Q15054}

11921 Pathogen[ Q85601] interacts with 11 human  
partners:{P56282;P35244;P49005;Q15054;P27694;P15927;P35251;Q9UBT6;Q9HCU8;P06746;P12004}

11922 Pathogen[ P14079] interacts with 15 human  
partners:{Q5QGS0;P40937;P49005;Q9HCU8;Q15054;P35250;P56282;P35251;P06746;P15927;P27694;P12004;P35244;Q9UBT6;P49917}

11923 Pathogen[ P03383] interacts with 9 human  
partners:{P06746;Q9HCU8;P27694;P49005;P56282;P15927;P35244;Q15054;P35251}

11924 Pathogen[ P03410] interacts with 14 human  
partners:{Q5QGS0;P35244;Q9UBT6;P06746;P56282;P35251;Q15054;P49005;P27694;P15927;P35250;P40937;P12004;Q9HCU8}

11925 Pathogen[ P14075] interacts with 9 human  
partners:{P06746;P49005;P15927;P35244;P35251;Q15054;P27694;Q9HCU8;P56282}

11926 Pathogen[ P0C206] interacts with 12 human  
partners:{P35251;Q9UBT6;Q9HCU8;P06746;P49005;P49917;Q15054;P56282;P27694;P15927;P35244;P12004}

11927 Pathogen[ P03363] interacts with 8 human  
partners:{P27694;P35251;P49005;P35244;P15927;Q9HCU8;P06746;Q15054}

11928 [Cluster 1085]GO:0036016+P biological\_process [name] cellular response to interleukin-3 [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an interleukin-3 stimulus." [GOC

11929 Pathogen[ Q2Q067] interacts with 1 human partners:{P02795}

11930 Pathogen[ P0C214] interacts with 1 human partners:{P02795}

11931 Pathogen[ P03346] interacts with 1 human partners:{P02795}

11932 Pathogen[ Q85601] interacts with 1 human partners:{P02795}

11933 Pathogen[ P14079] interacts with 1 human partners:{P02795}

11934 Pathogen[ P03383] interacts with 1 human partners:{P02795}

11935 Pathogen[ P03410] interacts with 1 human partners:{P02795}

11936 Pathogen[ P14075] interacts with 1 human partners:{P02795}

11937 Pathogen[ P0C206] interacts with 1 human partners:{P02795}

11938 Pathogen[ P03363] interacts with 1 human partners:{P02795}

11939 [Cluster 1086]GO:0048557+P biological\_process [name] embryonic digestive tract morphogenesis [def] "The process in which the anatomical structures of the digestive tract are generated and organized during embryonic development. The digestive tract is the anatomical structure through which food passes and is processed." [GOC

11940 Pathogen[ Q2Q067] interacts with 2 human partners:{P36402;P35680}

11941 Pathogen[ P0C214] interacts with 1 human partners:{P36402}

11942 Pathogen[ P03346] interacts with 4 human partners:{P36402;Q14774;O43680;P35680}

11943 Pathogen[ Q85601] interacts with 2 human partners:{P35680;P36402}

11944 Pathogen[ P14079] interacts with 2 human partners:{P35680;P36402}

11945 Pathogen[ P03383] interacts with 1 human partners:{P36402}

11946 Pathogen[ P03410] interacts with 2 human partners:{P36402;P35680}  
11947 Pathogen[ P14075] interacts with 1 human partners:{P36402}  
11948 Pathogen[ P0C206] interacts with 2 human partners:{P35680;P36402}  
11949 Pathogen[ P03363] interacts with 1 human partners:{P36402}  
11950 [Cluster 1087]GO:0010719+P biological\_process [name] negative regulation of epithelial to mesenchymal transition [def] "Any process that decreases the rate, frequency, or extent of epithelial to mesenchymal transition. Epithelial to mesenchymal transition where an epithelial cell loses apical/basolateral polarity, severs intercellular adhesive junctions, degrades basement membrane components and becomes a migratory mesenchymal cell." [GOC  
11951 Pathogen[ Q2Q067] interacts with 2 human partners:{P67775;O15105}  
11952 Pathogen[ P0C214] interacts with 2 human partners:{O15105;P67775}  
11953 Pathogen[ P03346] interacts with 3 human partners:{P67775;O15105;Q99593}  
11954 Pathogen[ Q85601] interacts with 2 human partners:{P67775;O15105}  
11955 Pathogen[ P14079] interacts with 1 human partners:{O15105}  
11956 Pathogen[ P03383] interacts with 2 human partners:{P67775;O15105}  
11957 Pathogen[ P03410] interacts with 2 human partners:{O15105;P67775}  
11958 Pathogen[ P14075] interacts with 2 human partners:{O15105;P67775}  
11959 Pathogen[ P0C206] interacts with 2 human partners:{P67775;O15105}  
11960 Pathogen[ P03363] interacts with 2 human partners:{O15105;P67775}  
11961 [Cluster 1088]GO:0070265+P biological\_process [name] necrotic cell death [def] "A cell death process that is morphologically characterized by a gain in cell volume (oncosis), swelling of organelles, plasma membrane rupture and subsequent loss of intracellular contents." [PMID  
11962 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13158}  
11963 Pathogen[ P0C214] interacts with 1 human partners:{Q13158}  
11964 Pathogen[ P03346] interacts with 1 human partners:{Q13158}  
11965 Pathogen[ Q85601] interacts with 1 human partners:{Q13158}  
11966 Pathogen[ P14079] interacts with 2 human partners:{O60502;Q13158}  
11967 Pathogen[ P03383] interacts with 1 human partners:{Q13158}  
11968 Pathogen[ P03410] interacts with 2 human partners:{O60502;Q13158}  
11969 Pathogen[ P14075] interacts with 1 human partners:{Q13158}  
11970 Pathogen[ P0C206] interacts with 1 human partners:{Q13158}  
11971 Pathogen[ P03363] interacts with 1 human partners:{Q13158}  
11972 [Cluster 1089]GO:2000110+P biological\_process [name] negative regulation of macrophage apoptosis [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of macrophage apoptosis." [GOC  
11973 Pathogen[ Q2Q067] interacts with 1 human partners:{Q92985}  
11974 Pathogen[ P0C214] interacts with 1 human partners:{Q92985}  
11975 Pathogen[ P03346] interacts with 1 human partners:{Q92985}  
11976 Pathogen[ Q85601] interacts with 1 human partners:{Q92985}  
11977 Pathogen[ P14079] interacts with 1 human partners:{Q92985}  
11978 Pathogen[ P03383] interacts with 1 human partners:{Q92985}  
11979 Pathogen[ P03410] interacts with 1 human partners:{Q92985}  
11980 Pathogen[ P14075] interacts with 1 human partners:{Q92985}  
11981 Pathogen[ P0C206] interacts with 1 human partners:{Q92985}  
11982 Pathogen[ P03363] interacts with 1 human partners:{Q92985}  
11983 [Cluster 1090]GO:0002062+P biological\_process [name] chondrocyte differentiation [def] "The process in which a chondroblast acquires specialized structural and/or functional features of a chondrocyte. A chondrocyte is a polymorphic cell that forms cartilage." [GOC  
11984 Pathogen[ Q2Q067] interacts with 2 human partners:{O00712;Q14814}  
11985 Pathogen[ P0C214] interacts with 2 human partners:{Q14814;O00712}  
11986 Pathogen[ P03346] interacts with 4 human partners:{Q9NPC8;Q14814;Q70SY1;O00712}  
11987 Pathogen[ Q85601] interacts with 2 human partners:{Q14814;O00712}  
11988 Pathogen[ P14079] interacts with 3 human partners:{Q06413;Q14814;O00712}  
11989 Pathogen[ P03383] interacts with 2 human partners:{O00712;Q14814}  
11990 Pathogen[ P03410] interacts with 3 human partners:{Q14814;O00712;Q9NRR1}  
11991 Pathogen[ P14075] interacts with 2 human partners:{O00712;Q14814}  
11992 Pathogen[ P0C206] interacts with 2 human partners:{O00712;Q14814}  
11993 Pathogen[ P03363] interacts with 3 human partners:{O00712;Q14814;Q9NPC8}  
11994 [Cluster 1091]GO:0070534+P biological\_process [name] protein K63-linked ubiquitination [def] "A protein ubiquitination process in which a polymer of ubiquitin, formed by linkages between lysine residues at position 63 of the ubiquitin monomers, is added to a protein. K63-linked ubiquitination does not target the substrate protein for degradation, but is involved in several pathways, notably as a signal to promote error-free DNA postreplication repair." [GOC  
11995 Pathogen[ Q2Q067] interacts with 13 human partners:{O95376;Q96J02;O60260;Q9Y2X8;Q12933;Q8N726;P63146;P78317;Q9NPD8;P61088;O76064;Q9UNE7;Q13404}  
11996 Pathogen[ P0C214] interacts with 19 human partners:{Q96J02;Q16763;Q13404;Q969T4;Q8N726;O00308;P78317;P62253;Q9Y2X8;O95376;Q12933;O60260;Q8IYW5;Q9UNE7;O76064;Q9NPD8;Q96LR5;P63146;P61088}  
11997 Pathogen[ P03346] interacts with 14 human partners:{Q96J02;O76064;O95376;Q9Y2X8;Q13404;P61088;P63146;Q9UNE7;Q9NPD8;P78317;Q8IYW5;O60260;Q8N726;O00308}

11998 Pathogen[ Q85601] interacts with 18 human  
partners: {Q96J02;P78317;P62253;Q16763;P63146;Q9Y2X8;Q969T4;Q9NPD8;Q96LR5;Q13404;O76064;Q8N726;Q12933;Q8IYW5;O95376;O60260;P61088;Q9UNE7}

11999 Pathogen[ P14079] interacts with 9 human  
partners: {O60260;Q13404;Q9NPD8;Q8N726;Q96J02;Q12933;Q9Y2X8;P78317;P63146}

12000 Pathogen[ P03383] interacts with 10 human  
partners: {Q9Y2X8;P78317;P61088;O60260;Q12933;Q13404;O95376;Q9NPD8;P63146;Q8N726}

12001 Pathogen[ P03410] interacts with 10 human  
partners: {Q8N726;O60260;P61088;Q9UNE7;P78317;P63146;Q9Y2X8;Q12933;Q9NPD8;Q13404}

12002 Pathogen[ P14075] interacts with 10 human  
partners: {P61088;Q9Y2X8;Q9NPD8;Q12933;P78317;O95376;Q13404;P63146;O60260;Q8N726}

12003 Pathogen[ P0C206] interacts with 19 human  
partners: {Q16763;Q9Y2X8;Q9NPD8;P62253;Q8N726;Q8IYW5;O95376;O00308;Q96J02;Q96LR5;Q12933;P78317;P61088;Q9UNE7;O60260;Q969T4;Q13404;O76064;P63146}

12004 Pathogen[ P03363] interacts with 13 human  
partners: {O95376;Q12933;P78317;Q8IYW5;P63146;P61088;Q9UNE7;Q969T4;O00308;Q8N726;Q9NPD8;Q13404;Q9Y2X8}

12005 [Cluster 1092]GO:0035563+P biological\_process [name] positive regulation of chromatin binding [def] "Any process that increases the frequency, rate or extent of chromatin binding. Chromatin binding is the selective interaction with chromatin, the network of fibers of DNA, protein, and sometimes RNA, that make up the chromosomes of the eukaryotic nucleus during interphase." [GOC

12006 Pathogen[ Q2Q067] interacts with 1 human partners: {Q71SY5}

12007 Pathogen[ P0C214] interacts with 1 human partners: {Q71SY5}

12008 Pathogen[ P03346] interacts with 1 human partners: {Q71SY5}

12009 Pathogen[ Q85601] interacts with 1 human partners: {Q71SY5}

12010 Pathogen[ P14079] interacts with 1 human partners: {Q71SY5}

12011 Pathogen[ P03383] interacts with 1 human partners: {Q71SY5}

12012 Pathogen[ P03410] interacts with 1 human partners: {Q71SY5}

12013 Pathogen[ P14075] interacts with 1 human partners: {Q71SY5}

12014 Pathogen[ P0C206] interacts with 1 human partners: {Q71SY5}

12015 Pathogen[ P03363] interacts with 1 human partners: {Q71SY5}

12016 [Cluster 1093]GO:0046886+P biological\_process [name] positive regulation of hormone biosynthetic process [def] "Any process that activates or increases the frequency, rate or extent of the chemical reactions and pathways resulting in the formation of hormones." [GOC

12017 Pathogen[ Q2Q067] interacts with 1 human partners: {P27540}

12018 Pathogen[ P0C214] interacts with 1 human partners: {P27540}

12019 Pathogen[ P03346] interacts with 1 human partners: {P27540}

12020 Pathogen[ Q85601] interacts with 1 human partners: {P27540}

12021 Pathogen[ P14079] interacts with 1 human partners: {P27540}

12022 Pathogen[ P03383] interacts with 1 human partners: {P27540}

12023 Pathogen[ P03410] interacts with 1 human partners: {P27540}

12024 Pathogen[ P14075] interacts with 1 human partners: {P27540}

12025 Pathogen[ P0C206] interacts with 1 human partners: {P27540}

12026 Pathogen[ P03363] interacts with 1 human partners: {P27540}

12027 [Cluster 1094]GO:0001843+P biological\_process [name] neural tube closure [def] "The last step in the formation of the neural tube, where the paired neural folds are brought together and fuse at the dorsal midline." [GOC

12028 Pathogen[ Q2Q067] interacts with 14 human  
partners: {P07737;Q14160;Q15562;O60315;O95999;Q15699;Q96MT3;P12755;O14641;Q15468;Q92830;Q15583;Q9NSC2;Q9UMX1}

12029 Pathogen[ P0C214] interacts with 13 human  
partners: {Q96MT3;O14641;O95999;Q15468;Q9NSC2;P12755;Q14160;Q92830;O14727;Q15562;O60315;Q15699;Q9UMX1}

12030 Pathogen[ P03346] interacts with 21 human  
partners: {Q15562;O60315;Q9UJQ4;Q15583;Q9NSC2;Q9HGB6;Q9BYW2;Q9BT04;O95999;Q96MT3;Q15699;Q92830;O14641;P61968;Q9ULT8;P07737;Q14160;O75398;Q15468;Q9UMX1;O14727}

12031 Pathogen[ Q85601] interacts with 16 human  
partners: {P61968;O75398;O60315;Q15583;P12755;P07737;Q96MT3;Q92830;O14641;Q15699;Q15562;Q14160;Q9NSC2;O95999;Q9BT04;Q9UMX1}

12032 Pathogen[ P14079] interacts with 17 human  
partners: {P12755;Q8IZ21;O95999;Q92830;O14641;Q15583;Q15699;Q9UMX1;P07737;O60315;P50552;Q15468;Q9UJQ4;Q15562;Q96MT3;Q9NSC2;Q9BT04}

12033 Pathogen[ P03383] interacts with 12 human  
partners: {Q15562;Q14160;Q96MT3;Q15468;P07737;O14641;Q92830;Q9NSC2;O95999;Q15699;Q9BT04;Q9UMX1}

12034 Pathogen[ P03410] interacts with 18 human  
partners: {Q92830;P12755;Q8IZ21;Q15468;Q14160;Q15583;Q9BT04;P50552;O95999;Q15699;Q9HGB6;Q9NSC2;Q96MT3;Q9UJQ4;Q15562;P07737;Q9UMX1;O14641}

12035 Pathogen[ P14075] interacts with 12 human  
partners: {Q9NSC2;Q96MT3;Q14160;Q15562;Q9BT04;P07737;O14641;O95999;Q15468;Q15699;Q92830;Q9UMX1}

12036 Pathogen[ P0C206] interacts with 17 human  
partners: {Q15468;Q92830;Q9UJQ4;Q96MT3;Q9UMX1;Q9NSC2;Q9BT04;O95999;Q15699;P12755;Q14160;Q15562;O60315;O75398;P61968;P07737;Q15583}

12037 Pathogen[ P03363] interacts with 16 human partners: {Q15699;Q9UJQ4;Q15468;O60315;Q9UMX1;Q15562;Q96MT3;Q9ULT8;Q14160;Q92830;Q9HBG6;Q9BT04;Q15583;O75398;O14641;P07737}

12038 [Cluster 1095]GO:0035105+P biological\_process [name] sterol regulatory element binding protein import into nucleus [def] "The transfer of a sterol regulatory element binding protein (SREBP) into the nucleus, across the nuclear membrane, in response to altered levels of one or more lipids. SREBPs are transcription factors that bind sterol regulatory elements (SREs), DNA motifs found in the promoters of target genes." [GOC

12039 Pathogen[ Q2Q067] interacts with 1 human partners: {P02545}

12040 Pathogen[ P0C214] interacts with 1 human partners: {P02545}

12041 Pathogen[ P03346] interacts with 1 human partners: {P02545}

12042 Pathogen[ Q85601] interacts with 1 human partners: {P02545}

12043 Pathogen[ P14079] interacts with 1 human partners: {P02545}

12044 Pathogen[ P03383] interacts with 1 human partners: {P02545}

12045 Pathogen[ P03410] interacts with 1 human partners: {P02545}

12046 Pathogen[ P14075] interacts with 1 human partners: {P02545}

12047 Pathogen[ P0C206] interacts with 1 human partners: {P02545}

12048 Pathogen[ P03363] interacts with 1 human partners: {P02545}

12049 [Cluster 1096]GO:0035872+P biological\_process [name] nucleotide-binding domain, leucine rich repeat containing receptor signaling pathway [def] "A series of molecular signals generated as a consequence of a nucleotide-binding domain, leucine rich repeat containing receptor (NLR) binding to one of its physiological ligands. NLRs are cytoplasmic receptors defined by their tripartite domain architecture that contains

12050 Pathogen[ Q2Q067] interacts with 21 human partners: {Q96J02;Q9NYJ8;P08238;Q14790;Q8N5C8;O14862;Q9Y6K9;P61088;P10599;P0CG47;O14920;Q9C000;P0CG48;O43318;P62987;Q13404;Q9H3M7;O15111;Q9Y2Z0;Q15750;P62979}

12051 Pathogen[ P0C214] interacts with 21 human partners: {Q96J02;O15111;Q9NPP4;Q9Y6K9;Q9H3M7;Q13404;O43318;Q8N5C8;Q9Y2Z0;P0CG48;P62987;Q15750;P0CG47;P10599;O14862;P62979;O14920;Q9NYJ8;P61088;Q14790;Q9C000}

12052 Pathogen[ P03346] interacts with 22 human partners: {Q9Y6K9;Q96J02;O15111;Q9Y2Z0;P62987;P0CG48;Q13404;Q8N5C8;P61088;Q9NPP4;Q9NYJ8;Q15750;P62979;Q14790;P0CG47;P10599;O14920;O43318;O14862;P08238;Q9H3M7;Q9C000}

12053 Pathogen[ Q85601] interacts with 21 human partners: {Q96J02;Q15750;Q9NYJ8;Q9Y2Z0;O15111;Q14790;P0CG48;Q13404;Q8N5C8;P10599;Q9Y6K9;Q9NQC7;O14920;P08238;O14862;P62979;P0CG47;P62987;O43318;P61088;Q9H3M7}

12054 Pathogen[ P14079] interacts with 22 human partners: {Q8N5C8;P0CG48;O43187;O15553;P52564;Q13404;Q9C000;Q15750;P62979;P62987;Q14790;Q9Y6K9;P08238;Q96J02;O14862;P10599;Q9H3M7;P0CG47;Q9Y2Z0;Q9Y2Z0;Q9NQC7;Q9NPP4}

12055 Pathogen[ P03383] interacts with 17 human partners: {O14862;Q9Y6K9;P62987;O14920;O15111;P10599;O43318;Q8N5C8;P61088;Q13404;P62979;P0CG47;Q9H3M7;P0CG48;Q9NYJ8;P08238;Q15750}

12056 Pathogen[ P03410] interacts with 22 human partners: {P10599;P0CG48;O14920;Q9Y2Z0;Q9Y2Z0;P08238;O15111;Q15750;O14862;O43187;Q9H3M7;Q9NPP4;Q9C000;P61088;P62979;O43318;Q9NYJ8;Q8N5C8;P62987;Q13404;Q9Y6K9;P0CG47}

12057 Pathogen[ P14075] interacts with 17 human partners: {O15111;Q15750;P61088;P08238;Q8N5C8;O14920;P0CG48;P62979;O14862;O43318;P62987;Q9H3M7;P0CG47;Q13404;Q9Y6K9;P10599;Q9NYJ8}

12058 Pathogen[ P0C206] interacts with 22 human partners: {Q9NQC7;Q9C000;P0CG48;Q9Y2Z0;O14920;Q9Y6K9;O14862;Q8N5C8;Q96J02;O43318;P61088;P08238;O15111;P62979;Q14790;Q9NYJ8;P0CG47;Q9H3M7;Q15750;P62987;Q13404;P10599}

12059 Pathogen[ P03363] interacts with 16 human partners: {O14920;Q9C000;O15111;Q9NYJ8;Q9H3M7;Q9Y6K9;O43318;Q15750;P61088;P62987;Q9Y2Z0;O14862;Q13404;Q9NPP4;Q8N5C8;P08238}

12060 [Cluster 1097]GO:0006749+P biological\_process [name] glutathione metabolic process [def] "The chemical reactions and pathways involving glutathione, the tripeptide glutamylcysteinylglycine, which acts as a coenzyme for some enzymes and as an antioxidant in the protection of sulfhydryl groups in enzymes and other proteins\_ it has a specific role in the reduction of hydrogen peroxide (H2O2) and oxidized ascorbate, and it participates in the gamma-glutamyl cycle." [CHEBI

12061 Pathogen[ Q2Q067] interacts with 3 human partners: {Q16775;P32929;O43708}

12062 Pathogen[ P0C214] interacts with 5 human partners: {O75874;P11413;Q16775;P32929;O43708}

12063 Pathogen[ P03346] interacts with 4 human partners: {Q9NS18;P32929;O43708;Q16775}

12064 Pathogen[ Q85601] interacts with 3 human partners: {O43708;Q16775;P32929}

12065 Pathogen[ P14079] interacts with 9 human partners: {Q4G0N0;Q9BX51;B5MD39;O43708;Q14390;Q04760;P32929;P10620;Q16775}

12066 Pathogen[ P03383] interacts with 1 human partners: {Q16775}

12067 Pathogen[ P03410] interacts with 6 human partners: {Q4G0N0;B5MD39;P32929;O43708;Q16775;Q04760}

12068 Pathogen[ P14075] interacts with 1 human partners: {Q16775}

12069 Pathogen[ P0C206] interacts with 5 human partners: {Q9NS18;Q04760;Q16775;O43708;P32929}

12070 Pathogen[ P03363] interacts with 1 human partners: {O43708}

12071 [Cluster 1098]GO:0006270+P biological\_process [name] DNA-dependent DNA replication initiation [def] "The process in which DNA replication is started\_ this involves the separation of a stretch of the DNA double helix, the recruitment of DNA polymerases and

- the initiation of polymerase action." [ISBN
- 12072 Pathogen[ Q2Q067] interacts with 12 human  
partners: {P49427;Q13415;Q13156;Q00577;Q14181;P56282;P24864;O75419;O96020;O43913;Q13416;P25205}
- 12073 Pathogen[ P0C214] interacts with 13 human  
partners: {Q13156;O43913;P49427;P25205;Q14566;Q00577;O75419;P24864;Q13416;P56282;O96020;Q13415;Q14181}
- 12074 Pathogen[ P03346] interacts with 16 human  
partners: {P49427;Q00577;O96020;Q13156;P56282;P24864;Q14566;P25205;P33992;Q13415;Q14181;P33991;Q13416;O75419;O43929;O43913}
- 12075 Pathogen[ Q85601] interacts with 14 human  
partners: {O43913;P56282;P49427;Q13415;Q14566;O96020;Q00577;P25205;Q14181;Q13416;Q13156;P33992;O75419;P24864}
- 12076 Pathogen[ P14079] interacts with 16 human  
partners: {Q13416;O75419;Q14566;Q13415;P24864;O43913;Q13156;P56282;P49642;Q14181;O43929;Q00577;P33992;P49427;O96020;P25205}
- 12077 Pathogen[ P03383] interacts with 11 human  
partners: {Q14181;P49427;P25205;O43913;P56282;O96020;O75419;Q13416;Q00577;Q13156;P24864}
- 12078 Pathogen[ P03410] interacts with 16 human  
partners: {P25205;O43929;Q14181;Q13416;P49427;O75419;O96020;P56282;Q00577;P33992;Q13156;O43913;Q14566;P24864;P49642;Q13415}
- 12079 Pathogen[ P14075] interacts with 11 human  
partners: {P49427;O75419;O96020;Q13156;P25205;O43913;Q00577;Q13416;P56282;Q14181;P24864}
- 12080 Pathogen[ P0C206] interacts with 15 human  
partners: {O75419;Q13156;P25205;O43913;Q13416;P49642;O96020;P49427;Q14181;P56282;Q13415;P24864;Q14566;P33992;Q00577}
- 12081 Pathogen[ P03363] interacts with 12 human  
partners: {P24864;P25205;Q14181;P49427;P33992;Q13416;O96020;Q13415;Q13156;Q00577;O75419;O43913}
- 12082 [Cluster 1099]GO:0030216+P biological\_process [name] keratinocyte differentiation [def] "The process in which a relatively unspecialized cell acquires specialized features of a keratinocyte." [GOC
- 12083 Pathogen[ Q2Q067] interacts with 17 human  
partners: {Q9UKI9;P35321;Q03052;P46937;Q99816;P23490;O14896;P15924;P22528;Q9UBC9;P22531;P13645;Q9H4B6;Q9HBD4;P07476;Q9H3M7;O60716}
- 12084 Pathogen[ P0C214] interacts with 18 human  
partners: {Q03052;P35321;O60716;P07476;P22735;Q9H3M7;P15924;Q9HBD4;P46937;Q9UKI9;P23490;Q9H4B6;P22531;O14896;P42574;Q99816;Q9UBC9;P13645}
- 12085 Pathogen[ P03346] interacts with 25 human  
partners: {P15924;P46937;P35321;Q9HBD4;P35325;Q03052;O60716;O95171;P35326;Q9UKI9;P07476;Q99816;Q9BYE4;P42574;Q9UBC9;Q96RM1;P22531;P13645;P23490;P22532;O14896;P22528;Q9H4B6;P22735;Q9H3M7}
- 12086 Pathogen[ Q85601] interacts with 16 human  
partners: {Q99816;O14896;P35321;Q03052;P15924;O60716;P22531;P13645;Q9UKI9;Q9HBD4;P46937;P23490;O95171;Q9UBC9;Q9H3M7;Q9H4B6}
- 12087 Pathogen[ P14079] interacts with 26 human  
partners: {P04083;P22528;P22531;P35326;P22735;O14896;P07476;P15924;Q9BYE4;P46937;Q96RM1;P13645;P20930;P35321;Q9H4B6;P35325;P23490;O95171;Q92817;Q9UBC9;P22532;Q9UKI9;Q9H3M7;Q03052;Q99816;O60716}
- 12088 Pathogen[ P03383] interacts with 20 human  
partners: {P23490;P15924;O60716;Q9BYE4;P35321;Q9HBD4;Q9UKI9;Q99816;P13645;Q9UBC9;Q96RM1;O14896;P22531;P07476;P22532;P22528;Q9H3M7;P46937;Q9H4B6;P35325}
- 12089 Pathogen[ P03410] interacts with 27 human  
partners: {P13645;P23490;P15924;P22531;Q9UBC9;O14896;P35325;P22528;Q9BYE4;O60716;P35321;Q9H3M7;Q03052;O95171;P20930;Q99816;P46937;Q96RM1;Q9UKI9;P22532;P35326;Q9H4B6;Q9HBD4;Q92817;Q15517;P07476;P22735}
- 12090 Pathogen[ P14075] interacts with 20 human  
partners: {P35321;P22532;Q9UBC9;Q9HBD4;P35325;P23490;P13645;Q9H4B6;Q96RM1;P22531;Q9H3M7;O14896;P22528;Q9BYE4;P46937;Q9UKI9;Q99816;P07476;O60716;P15924}
- 12091 Pathogen[ P0C206] interacts with 25 human  
partners: {P46937;O60716;Q9BYE4;Q9UBC9;P35325;P22531;P13645;Q96RM1;Q99816;P35326;P23490;P35321;Q9H4B6;Q9UKI9;Q03052;P42574;O14896;P15924;P22532;Q9H3M7;Q9HBD4;P22735;P07476;O95171;P22528}
- 12092 Pathogen[ P03363] interacts with 24 human  
partners: {P22531;P13645;P22532;O14896;P35321;Q9BYE4;P23490;Q9UBC9;Q9UKI9;Q9H3M7;P35326;P15924;Q96RM1;P46937;P35325;Q9HBD4;P22528;O95171;P07476;Q9H4B6;Q99816;O60716;Q92817;Q03052}
- 12093 [Cluster 1100]GO:0043280+P biological\_process [name] positive regulation of cysteine-type endopeptidase activity involved in apoptotic process [def] "Any process that activates or increases the activity of a cysteine-type endopeptidase involved in the apoptotic process." [GOC
- 12094 Pathogen[ Q2Q067] interacts with 9 human  
partners: {P01106;Q13794;Q96IL0;O00255;Q13127;Q9Y2G2;Q9BZF9;P49593;Q9BT81}
- 12095 Pathogen[ P0C214] interacts with 11 human

partners:{Q92934;Q96IL0;Q9BT81;Q13794;Q9Y2G2;Q13127;P49593;Q9BZF9;P01106;O00255;P18054}  
 12096 Pathogen[ P03346] interacts with 12 human  
 partners:{P58012;Q9NX02;Q96IL0;P18054;P49593;P01106;O00255;Q9BZF9;Q9Y2G2;Q9BT81;Q13794;Q13127}  
 12097 Pathogen[ Q85601] interacts with 9 human  
 partners:{P01106;Q13127;P49593;Q9BZF9;Q9Y2G2;O00255;Q96IL0;Q9BT81;Q13794}  
 12098 Pathogen[ P14079] interacts with 10 human  
 partners:{P49593;Q9BT81;Q96IL0;Q92934;Q13794;P01106;Q9Y2G2;Q9BZF9;Q13127;O00255}  
 12099 Pathogen[ P03383] interacts with 6 human  
 partners:{P01106;Q9BZF9;O00255;Q9Y2G2;Q13794;Q13127}  
 12100 Pathogen[ P03410] interacts with 10 human  
 partners:{Q9Y2G2;P01106;Q96IL0;Q92934;Q13794;Q13127;Q9BZF9;P49593;Q9BT81;O00255}  
 12101 Pathogen[ P14075] interacts with 6 human  
 partners:{P01106;O00255;Q13794;Q13127;Q9BZF9;Q9Y2G2}  
 12102 Pathogen[ P0C206] interacts with 10 human  
 partners:{Q9Y2G2;Q13127;O00255;Q9BT81;Q92934;P49593;P01106;Q9BZF9;Q96IL0;Q13794}  
 12103 Pathogen[ P03363] interacts with 7 human  
 partners:{Q13794;Q9NX02;P01106;Q13127;Q9BZF9;Q9Y2G2;Q9BT81}  
 12104 [Cluster 1101]GO:0030198+P biological\_process [name] extracellular matrix organization  
 [def] "A process that is carried out at the cellular level which results in the assembly, arrangement of constituent parts, or disassembly of an extracellular matrix."  
 [GOC  
 12105 Pathogen[ Q2Q067] interacts with 9 human  
 partners:{O00213;P13349;P20749;P14136;P78545;Q6RSH7;Q00653;Q9HBD4;P23284}  
 12106 Pathogen[ P0C214] interacts with 10 human  
 partners:{O00213;Q00653;P36952;P13349;Q9HBD4;P14136;P23284;P20749;P78545;Q6RSH7}  
 12107 Pathogen[ P03346] interacts with 9 human  
 partners:{O00213;Q6RSH7;Q9HBD4;P13349;P14136;P20749;P78545;Q00653;P23284}  
 12108 Pathogen[ Q85601] interacts with 10 human  
 partners:{O00213;P36952;P13349;P78545;P14136;P23284;Q9HBD4;Q6RSH7;Q00653;P20749}  
 12109 Pathogen[ P14079] interacts with 11 human  
 partners:{P15502;P13349;Q8IVL6;O00213;Q96JX3;P14136;Q13316;P20749;Q6RSH7;P78545;P23284}  
 12110 Pathogen[ P03383] interacts with 10 human  
 partners:{O00213;Q9HBD4;Q00653;P36952;P20749;P14136;Q6RSH7;P23284;P78545;P15502}  
 12111 Pathogen[ P03410] interacts with 13 human  
 partners:{P20749;P78545;O00213;P15502;Q96JX3;P36952;P13349;Q6RSH7;P23284;P14136;Q00653;Q9HBD4;Q13316}  
 12112 Pathogen[ P14075] interacts with 9 human  
 partners:{O00213;Q9HBD4;P23284;P78545;Q6RSH7;P14136;P15502;Q00653;P20749}  
 12113 Pathogen[ P0C206] interacts with 12 human  
 partners:{P15502;Q13316;P36952;O00213;Q6RSH7;P14136;P13349;P23284;P78545;P20749;Q00653;Q9HBD4}  
 12114 Pathogen[ P03363] interacts with 10 human  
 partners:{P23284;O00213;P36952;P13349;P20749;Q6RSH7;Q00653;P78545;Q9HBD4;P14136}  
 12115 [Cluster 1102]GO:0045651+P biological\_process [name] positive regulation of macrophage differentiation  
 [def] "Any process that activates or increases the frequency, rate or extent of macrophage differentiation." [GOC  
 12116 Pathogen[ Q2Q067] interacts with 2 human partners:{P06400;Q14790}  
 12117 Pathogen[ P0C214] interacts with 2 human partners:{P06400;Q14790}  
 12118 Pathogen[ P03346] interacts with 2 human partners:{P06400;Q14790}  
 12119 Pathogen[ Q85601] interacts with 2 human partners:{P06400;Q14790}  
 12120 Pathogen[ P14079] interacts with 1 human partners:{Q14790}  
 12121 Pathogen[ P03383] interacts with 1 human partners:{P06400}  
 12122 Pathogen[ P03410] interacts with 1 human partners:{P06400}  
 12123 Pathogen[ P14075] interacts with 1 human partners:{P06400}  
 12124 Pathogen[ P0C206] interacts with 2 human partners:{Q14790;P06400}  
 12125 Pathogen[ P03363] interacts with 1 human partners:{P06400}  
 12126 [Cluster 1103]GO:1900102+P  
 12127 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8IUR6}  
 12128 Pathogen[ P0C214] interacts with 1 human partners:{Q8IUR6}  
 12129 Pathogen[ P03346] interacts with 1 human partners:{Q8IUR6}  
 12130 Pathogen[ Q85601] interacts with 1 human partners:{Q8IUR6}  
 12131 Pathogen[ P14079] interacts with 1 human partners:{Q8IUR6}  
 12132 Pathogen[ P03383] interacts with 1 human partners:{Q8IUR6}  
 12133 Pathogen[ P03410] interacts with 1 human partners:{Q8IUR6}  
 12134 Pathogen[ P14075] interacts with 1 human partners:{Q8IUR6}  
 12135 Pathogen[ P0C206] interacts with 1 human partners:{Q8IUR6}  
 12136 Pathogen[ P03363] interacts with 1 human partners:{Q8IUR6}  
 12137 [Cluster 1104]GO:0006513+P biological\_process [name] protein monoubiquitination  
 [def] "Addition of a single ubiquitin group to a protein." [GOC  
 12138 Pathogen[ Q2Q067] interacts with 16 human  
 partners:{Q9NS56;Q99816;P19474;O60260;Q9NZJ0;Q7Z6Z7;P61077;P63146;Q9UKC9;Q9NPD8;Q13616;O60291;Q53G59;Q13618;P62877;Q9NW38}  
 12139 Pathogen[ P0C214] interacts with 18 human



12140 Pathogen[ P03346] interacts with 15 human partners: {Q96B02;P19474;Q9NS56;Q13618;P62877;P61077;Q53G59;Q9NZJ0;Q9UKC9;Q13616;Q99816;O60291;Q7Z6Z7;O60260;Q712K3;Q9NPD8;P63146;Q9NW38}

12141 Pathogen[ Q85601] interacts with 17 human partners: {Q99816;Q9NS56;P63146;P62877;Q9NZJ0;Q13616;Q96B02;Q9NPD8;P61077;Q9UKC9;O60291;Q9NW38;O60260;Q7Z6Z7;Q13618;Q53G59;P19474}

12142 Pathogen[ P14079] interacts with 14 human partners: {O60260;Q13618;Q9NPD8;Q9UKC9;P61077;P62877;P19474;Q9NS56;Q9NZJ0;Q13616;Q53G59;Q99816;Q9NW38;P63146}

12143 Pathogen[ P03383] interacts with 13 human partners: {Q13616;P19474;Q9NZJ0;Q99816;Q13618;P61077;O60260;Q53G59;Q9UKC9;P62877;Q9NPD8;P63146;Q9NW38}

12144 Pathogen[ P03410] interacts with 13 human partners: {Q53G59;O60260;Q99816;Q13618;Q9UKC9;P62877;P63146;Q13616;Q9NPD8;O60291;Q9NW38;P61077;Q9NZJ0}

12145 Pathogen[ P14075] interacts with 13 human partners: {Q13618;Q53G59;P61077;Q9NW38;Q9NPD8;P19474;Q9UKC9;P63146;Q99816;Q13616;Q9NZJ0;O60260;P62877}

12146 Pathogen[ P0C206] interacts with 18 human partners: {Q9UKC9;Q9NS56;O60291;P62877;Q9NPD8;Q99816;Q13616;Q712K3;Q13618;O60260;Q9NZJ0;P61077;Q7Z6Z7;Q53G59;Q96B02;Q9NW38;P63146;P19474}

12147 Pathogen[ P03363] interacts with 14 human partners: {Q9NW38;O60291;Q13618;P63146;Q7Z6Z7;Q13616;P62877;P19474;Q53G59;Q9NPD8;Q99816;P61077;Q9UKC9;Q9NZJ0}

12148 [Cluster 1105]GO:0031670+P biological\_process [name] cellular response to nutrient [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a nutrient stimulus." [GOC

12149 Pathogen[ Q2Q067] interacts with 3 human partners: {P24864;Q9UKN5;P42772}

12150 Pathogen[ P0C214] interacts with 3 human partners: {Q9UKN5;P24864;P42772}

12151 Pathogen[ P03346] interacts with 3 human partners: {P42772;P24864;Q9UKN5}

12152 Pathogen[ Q85601] interacts with 3 human partners: {Q9UKN5;P42772;P24864}

12153 Pathogen[ P14079] interacts with 2 human partners: {P24864;Q9UKN5}

12154 Pathogen[ P03383] interacts with 3 human partners: {P42772;Q9UKN5;P24864}

12155 Pathogen[ P03410] interacts with 3 human partners: {P42772;Q9UKN5;P24864}

12156 Pathogen[ P14075] interacts with 3 human partners: {Q9UKN5;P42772;P24864}

12157 Pathogen[ P0C206] interacts with 3 human partners: {P42772;Q9UKN5;P24864}

12158 Pathogen[ P03363] interacts with 3 human partners: {P24864;Q9UKN5;P42772}

12159 [Cluster 1106]GO:0050714+P biological\_process [name] positive regulation of protein secretion [def] "Any process that activates or increases the frequency, rate or extent of the controlled release of a protein from a cell or group of cells." [GOC

12160 Pathogen[ Q2Q067] interacts with 2 human partners: {O00213;Q15327}

12161 Pathogen[ P0C214] interacts with 2 human partners: {O00213;Q15327}

12162 Pathogen[ P03346] interacts with 2 human partners: {O00213;Q15327}

12163 Pathogen[ Q85601] interacts with 2 human partners: {O00213;Q15327}

12164 Pathogen[ P14079] interacts with 3 human partners: {Q8NEV8;O00213;Q15327}

12165 Pathogen[ P03383] interacts with 2 human partners: {O00213;Q15327}

12166 Pathogen[ P03410] interacts with 3 human partners: {O00213;Q15327;Q8NEV8}

12167 Pathogen[ P14075] interacts with 2 human partners: {O00213;Q15327}

12168 Pathogen[ P0C206] interacts with 2 human partners: {Q15327;O00213}

12169 Pathogen[ P03363] interacts with 2 human partners: {O00213;Q15327}

12170 [Cluster 1107]GO:0090234+P biological\_process [name] regulation of kinetochore assembly [def] "Any process that modulates the rate, frequency, or extent of kinetochore assembly, the aggregation, arrangement and bonding together of a set of components to form the kinetochore, a multisubunit complex that is located at the centromeric region of DNA and provides an attachment point for the spindle microtubules." [GOC

12171 Pathogen[ Q2Q067] interacts with 2 human partners: {Q9GZR1;P78317}

12172 Pathogen[ P0C214] interacts with 2 human partners: {P78317;Q9GZR1}

12173 Pathogen[ P03346] interacts with 2 human partners: {Q9GZR1;P78317}

12174 Pathogen[ Q85601] interacts with 2 human partners: {P78317;Q9GZR1}

12175 Pathogen[ P14079] interacts with 2 human partners: {P78317;Q9GZR1}

12176 Pathogen[ P03383] interacts with 2 human partners: {P78317;Q9GZR1}

12177 Pathogen[ P03410] interacts with 2 human partners: {Q9GZR1;P78317}

12178 Pathogen[ P14075] interacts with 2 human partners: {P78317;Q9GZR1}

12179 Pathogen[ P0C206] interacts with 2 human partners: {P78317;Q9GZR1}

12180 Pathogen[ P03363] interacts with 2 human partners: {P78317;Q9GZR1}

12181 [Cluster 1108]GO:0006312+P biological\_process [name] mitotic recombination [def] "The exchange, reciprocal or nonreciprocal, of genetic material between one DNA molecule and a homologous region of DNA that occurs during mitotic cell cycles." [GOC

12182 Pathogen[ Q2Q067] interacts with 3 human partners: {Q06609;P11388;P43351}

12183 Pathogen[ P0C214] interacts with 3 human partners: {P43351;Q06609;P11388}

12184 Pathogen[ P03346] interacts with 4 human partners: {Q06609;P11388;P07992;P43351}

12185 Pathogen[ Q85601] interacts with 3 human partners: {P43351;P11388;Q06609}

12186 Pathogen[ P14079] interacts with 4 human partners:{P11388;Q06609;P07992;P43351}  
12187 Pathogen[ P03383] interacts with 2 human partners:{P43351;Q06609}  
12188 Pathogen[ P03410] interacts with 4 human partners:{P07992;P43351;P11388;Q06609}  
12189 Pathogen[ P14075] interacts with 2 human partners:{P43351;Q06609}  
12190 Pathogen[ P0C206] interacts with 4 human partners:{P07992;P43351;Q06609;P11388}  
12191 Pathogen[ P03363] interacts with 2 human partners:{P43351;Q06609}  
12192 [Cluster 1109]GO:0031100+P biological\_process [name] organ regeneration [def] "The regrowth of a lost or destroyed organ." [GOC  
12193 Pathogen[ Q2Q067] interacts with 14 human partners:{P24385;Q16656;Q9HAU5;P09972;P24864;P38936;Q15466;P04818;P16989;P46013;P08397;P60842;P49715;Q14693}  
12194 Pathogen[ P0C214] interacts with 18 human partners:{P04818;P16989;P60842;Q16656;P40261;P24385;Q9HAU5;P38936;P08397;P14618;P09972;P24864;P46013;P16118;Q15524;P31939;Q15466;Q14693}  
12195 Pathogen[ P03346] interacts with 14 human partners:{P09972;Q15524;P24385;Q16656;Q15466;P24864;P16989;P60842;P49715;Q9HAU5;P46013;P38936;P40261;Q14693}  
12196 Pathogen[ Q85601] interacts with 15 human partners:{P24385;Q15466;Q16656;P16118;Q9HAU5;P14618;P09972;P60842;P49715;P08397;P46013;P38936;P16989;Q14693;P24864}  
12197 Pathogen[ P14079] interacts with 14 human partners:{P60842;Q14693;P24864;P31939;Q16656;P09972;P16989;P49715;P38936;P08397;Q9HAU5;Q15466;P04818;P46013}  
12198 Pathogen[ P03383] interacts with 10 human partners:{P16989;Q16656;P46013;P09972;P24385;Q9HAU5;Q15466;P08397;P24864;Q14693}  
12199 Pathogen[ P03410] interacts with 15 human partners:{P08397;P16989;P16118;P46013;Q9HAU5;Q14693;P24385;P09972;P38936;P04818;Q15466;P31939;P60842;Q16656;P24864}  
12200 Pathogen[ P14075] interacts with 11 human partners:{P16989;Q16656;P08397;P16118;Q9HAU5;P09972;Q15466;P24385;P46013;Q14693;P24864}  
12201 Pathogen[ P0C206] interacts with 18 human partners:{Q15466;P46013;P49715;Q15524;P31939;Q16656;P16989;P38936;P04818;Q9HAU5;P09972;P16118;P08397;P60842;Q14693;P24864;P14618;P24385}  
12202 Pathogen[ P03363] interacts with 10 human partners:{Q15466;P24864;Q15524;P09972;Q9HAU5;Q16656;P24385;P60842;P16989;P46013}  
12203 [Cluster 1110]GO:0043268+P biological\_process [name] positive regulation of potassium ion transport [def] "Any process that activates or increases the frequency, rate or extent of the directed movement of potassium ions (K+) into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore." [GOC  
12204 Pathogen[ Q2Q067] interacts with 2 human partners:{Q12959;Q13642}  
12205 Pathogen[ P0C214] interacts with 2 human partners:{Q13642;Q12959}  
12206 Pathogen[ P03346] interacts with 2 human partners:{Q13642;Q12959}  
12207 Pathogen[ Q85601] interacts with 2 human partners:{Q13642;Q12959}  
12208 Pathogen[ P14079] interacts with 1 human partners:{Q13642}  
12209 Pathogen[ P03383] interacts with 1 human partners:{Q13642}  
12210 Pathogen[ P03410] interacts with 3 human partners:{Q12959;Q13642;P33176}  
12211 Pathogen[ P14075] interacts with 1 human partners:{Q13642}  
12212 Pathogen[ P0C206] interacts with 2 human partners:{Q13642;Q12959}  
12213 Pathogen[ P03363] interacts with 3 human partners:{Q12959;P33176;Q13642}  
12214 [Cluster 1111]GO:0042472+P biological\_process [name] inner ear morphogenesis [def] "The process in which the anatomical structures of the inner ear are generated and organized. The inner ear is the structure in vertebrates that contains the organs of balance and hearing. It consists of soft hollow sensory structures (the membranous labyrinth) containing fluid (endolymph) surrounded by fluid (perilymph) and encased in a bony cavity (the bony labyrinth). It consists of two chambers, the sacculus and utriculus, from which arise the cochlea and semicircular canals respectively." [GOC  
12215 Pathogen[ Q2Q067] interacts with 8 human partners:{Q9Y5Q3;Q99502;Q99684;P23769;Q9Y6N9;P49639;Q495M9;P54821}  
12216 Pathogen[ P0C214] interacts with 9 human partners:{P32243;P49639;Q9UM54;Q495M9;P23769;Q9Y6N9;Q9Y5Q3;Q99684;Q99502}  
12217 Pathogen[ P03346] interacts with 21 human partners:{Q9Y6N9;P54821;P49639;Q99811;Q9UIU6;P23769;Q92858;P52951;Q92886;Q9Y5Q3;Q99502;A2RU54;Q06710;Q99684;Q15475;P32242;P56178;Q9P2D1;P32243;Q495M9;Q15319}  
12218 Pathogen[ Q85601] interacts with 10 human partners:{P49639;Q9P2D1;P23769;Q9Y5Q3;Q99502;Q9Y6N9;P32243;Q99684;Q9UM54;Q495M9}  
12219 Pathogen[ P14079] interacts with 14 human partners:{A7XYQ1;Q9Y5U4;Q9Y5Q3;Q99502;Q43597;Q99684;Q9UM54;Q9P2D1;P32243;Q9Y6N9;Q495M9;P49639;P23769;Q15503}  
12220 Pathogen[ P03383] interacts with 5 human partners:{P32243;Q9Y5Q3;P23769;P49639;Q99684}  
12221 Pathogen[ P03410] interacts with 15 human partners:{Q43597;Q99502;Q495M9;Q9Y5U4;Q99684;Q8NEW7;A7XYQ1;Q9Y5Q3;Q9UM54;Q9P2D1;Q9Y6N9;P49639;P32243;P23769;Q15503}  
12222 Pathogen[ P14075] interacts with 5 human partners:{P23769;Q99684;Q9Y5Q3;Q99502;P32243}

12223 Pathogen[ P0C206] interacts with 13 human partners:{Q9UM54;Q9Y5Q3;Q9Y6N9;P54821;P49639;Q9P2D1;P32243;Q495M9;O43597;Q99684;P23769;Q99502;A7XYQ1}

12224 Pathogen[ P03363] interacts with 14 human partners:{Q92886;P56179;Q9Y6N9;Q99684;P32243;P49639;P32242;P54821;Q495M9;P52951;A2RU54;Q99811;Q9Y5Q3;Q15319}

12225 [Cluster 1112]GO:0019915+P biological\_process [name] lipid storage [def] "The accumulation and maintenance in cells or tissues of lipids, compounds soluble in organic solvents but insoluble or sparingly soluble in aqueous solvents. Lipid reserves can be accumulated during early developmental stages for mobilization and utilization at later stages of development." [GOC]

12226 Pathogen[ Q2Q067] interacts with 2 human partners:{O60543;P48552}

12227 Pathogen[ P0C214] interacts with 2 human partners:{P48552;O60543}

12228 Pathogen[ P03346] interacts with 2 human partners:{P48552;O60543}

12229 Pathogen[ Q85601] interacts with 2 human partners:{O60543;P48552}

12230 Pathogen[ P14079] interacts with 3 human partners:{P48552;O60543;Q99541}

12231 Pathogen[ P03383] interacts with 2 human partners:{O60543;P48552}

12232 Pathogen[ P03410] interacts with 2 human partners:{O60543;P48552}

12233 Pathogen[ P14075] interacts with 2 human partners:{O60543;P48552}

12234 Pathogen[ P0C206] interacts with 2 human partners:{O60543;P48552}

12235 Pathogen[ P03363] interacts with 2 human partners:{O60543;P48552}

12236 [Cluster 1113]GO:0010821+P biological\_process [name] regulation of mitochondrion organization [def] "Any process that modulates the frequency, rate or extent of a process involved in the formation, arrangement of constituent parts, or disassembly of a mitochondrion." [GOC]

12237 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9GZY8;Q9H4A6}

12238 Pathogen[ P0C214] interacts with 2 human partners:{Q9H4A6;Q9GZY8}

12239 Pathogen[ P03346] interacts with 2 human partners:{Q9H4A6;Q9GZY8}

12240 Pathogen[ Q85601] interacts with 2 human partners:{Q9H4A6;Q9GZY8}

12241 Pathogen[ P14079] interacts with 2 human partners:{Q9GZY8;Q9H4A6}

12242 Pathogen[ P03383] interacts with 2 human partners:{Q9H4A6;Q9GZY8}

12243 Pathogen[ P03410] interacts with 2 human partners:{Q9GZY8;Q9H4A6}

12244 Pathogen[ P14075] interacts with 2 human partners:{Q9GZY8;Q9H4A6}

12245 Pathogen[ P0C206] interacts with 2 human partners:{Q9H4A6;Q9GZY8}

12246 Pathogen[ P03363] interacts with 2 human partners:{Q9H4A6;Q9GZY8}

12247 [Cluster 1114]GO:0036302+P

12248 Pathogen[ Q2Q067] interacts with 1 human partners:{Q06330}

12249 Pathogen[ P0C214] interacts with 1 human partners:{Q06330}

12250 Pathogen[ P03346] interacts with 1 human partners:{Q06330}

12251 Pathogen[ Q85601] interacts with 1 human partners:{Q06330}

12252 Pathogen[ P14079] interacts with 1 human partners:{Q06330}

12253 Pathogen[ P03383] interacts with 1 human partners:{Q06330}

12254 Pathogen[ P03410] interacts with 1 human partners:{Q06330}

12255 Pathogen[ P14075] interacts with 1 human partners:{Q06330}

12256 Pathogen[ P0C206] interacts with 1 human partners:{Q06330}

12257 Pathogen[ P03363] interacts with 1 human partners:{Q06330}

12258 [Cluster 1115]GO:0051154+P biological\_process [name] negative regulation of striated muscle cell differentiation [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of striated muscle cell differentiation." [CL]

12259 Pathogen[ Q2Q067] interacts with 2 human partners:{Q15910;P67809}

12260 Pathogen[ P0C214] interacts with 2 human partners:{P67809;Q15910}

12261 Pathogen[ P03346] interacts with 2 human partners:{P67809;Q15910}

12262 Pathogen[ Q85601] interacts with 2 human partners:{P67809;Q15910}

12263 Pathogen[ P14079] interacts with 3 human partners:{P67809;Q15910;P28360}

12264 Pathogen[ P03383] interacts with 2 human partners:{Q15910;P67809}

12265 Pathogen[ P03410] interacts with 2 human partners:{P67809;Q15910}

12266 Pathogen[ P14075] interacts with 2 human partners:{Q15910;P67809}

12267 Pathogen[ P0C206] interacts with 2 human partners:{P67809;Q15910}

12268 Pathogen[ P03363] interacts with 2 human partners:{Q15910;P67809}

12269 [Cluster 1116]GO:0043403+P biological\_process [name] skeletal muscle tissue regeneration [def] "The regrowth of skeletal muscle tissue to repair injured or damaged muscle fibers in the postnatal stage." [GOC]

12270 Pathogen[ Q2Q067] interacts with 3 human partners:{P13929;O60248;P23409}

12271 Pathogen[ P0C214] interacts with 3 human partners:{P13929;P14618;O60248}

12272 Pathogen[ P03346] interacts with 5 human partners:{O60248;P13929;P23409;P23759;P58546}

12273 Pathogen[ Q85601] interacts with 4 human partners:{P23409;P14618;P13929;O60248}

12274 Pathogen[ P14079] interacts with 3 human partners:{P23409;O60248;P13929}

12275 Pathogen[ P03383] interacts with 1 human partners:{O60248}

12276 Pathogen[ P03410] interacts with 3 human partners:{P23409;P13929;O60248}

12277 Pathogen[ P14075] interacts with 1 human partners:{O60248}

12278 Pathogen[ P0C206] interacts with 4 human partners:{P23409;O60248;P13929;P14618}

12279 Pathogen[ P03363] interacts with 3 human partners:{P23759;P23409;O60248}

12280 [Cluster 1117]GO:0002318+P biological\_process [name] myeloid progenitor cell differentiation [def] "The process in which a precursor cell type acquires the specialized features of a myeloid progenitor cell. Myeloid progenitor cells include

progenitor cells for any of the myeloid lineages." [GOC

12281 Pathogen[ Q2Q067] interacts with 2 human partners:{Q01196;P58340}

12282 Pathogen[ P0C214] interacts with 1 human partners:{P58340}

12283 Pathogen[ P03346] interacts with 2 human partners:{P58340;Q01196}

12284 Pathogen[ Q85601] interacts with 1 human partners:{P58340}

12285 Pathogen[ P14079] interacts with 1 human partners:{P58340}

12286 Pathogen[ P03383] interacts with 1 human partners:{P58340}

12287 Pathogen[ P03410] interacts with 1 human partners:{P58340}

12288 Pathogen[ P14075] interacts with 1 human partners:{P58340}

12289 Pathogen[ P0C206] interacts with 1 human partners:{P58340}

12290 Pathogen[ P03363] interacts with 1 human partners:{P58340}

12291 [Cluster 1118]GO:0051918+P biological\_process [name] negative regulation of fibrinolysis [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of fibrinolysis, an ongoing process that solubilizes fibrin, resulting in the removal of small blood clots." [GOC

12292 Pathogen[ Q2Q067] interacts with 2 human partners:{P08697;P22415}

12293 Pathogen[ P0C214] interacts with 3 human partners:{P08697;P05121;P22415}

12294 Pathogen[ P03346] interacts with 1 human partners:{P22415}

12295 Pathogen[ Q85601] interacts with 3 human partners:{P08697;P22415;P05121}

12296 Pathogen[ P14079] interacts with 1 human partners:{P22415}

12297 Pathogen[ P03383] interacts with 2 human partners:{P08697;P22415}

12298 Pathogen[ P03410] interacts with 3 human partners:{P05121;P08697;P22415}

12299 Pathogen[ P14075] interacts with 2 human partners:{P08697;P22415}

12300 Pathogen[ P0C206] interacts with 3 human partners:{P22415;P05121;P08697}

12301 Pathogen[ P03363] interacts with 1 human partners:{P22415}

12302 [Cluster 1119]GO:0070837+P biological\_process [name] dehydroascorbic acid transport [def] "The directed movement of dehydroascorbate into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore. Dehydroascorbate, 5-(1,2-dihydroxyethyl)furan-2,3,4(5H)-trione, is an oxidized form of vitamin C." [GOC

12303 Pathogen[ Q2Q067] interacts with 1 human partners:{P11166}

12304 Pathogen[ P0C214] interacts with 2 human partners:{P11166;P11168}

12305 Pathogen[ P03346] interacts with 1 human partners:{P11166}

12306 Pathogen[ Q85601] interacts with 2 human partners:{P11168;P11166}

12307 Pathogen[ P14079] interacts with 1 human partners:{P11166}

12308 Pathogen[ P03383] interacts with 1 human partners:{P11168}

12309 Pathogen[ P03410] interacts with 2 human partners:{P11166;P11168}

12310 Pathogen[ P14075] interacts with 1 human partners:{P11168}

12311 Pathogen[ P0C206] interacts with 2 human partners:{P11166;P11168}

12312 Pathogen[ P03363] interacts with 1 human partners:{P11166}

12313 [Cluster 1120]GO:0021629+P biological\_process [name] olfactory nerve structural organization [def] "The process that contributes to the act of creating the structural organization of the oculomotor nerve. This process pertains to the physical shaping of a rudimentary structure. The olfactory nerve is a collection of sensory nerve rootlets that extend down from the olfactory bulb to the olfactory mucosa of the upper parts of the nasal cavity. This nerve conducts odor information to the brainstem." [GO\_REF

12314 Pathogen[ Q2Q067] interacts with 1 human partners:{P11532}

12315 Pathogen[ P0C214] interacts with 1 human partners:{P11532}

12316 Pathogen[ P03346] interacts with 1 human partners:{P11532}

12317 Pathogen[ Q85601] interacts with 1 human partners:{P11532}

12318 Pathogen[ P14079] interacts with 1 human partners:{P11532}

12319 Pathogen[ P03383] interacts with 1 human partners:{P11532}

12320 Pathogen[ P03410] interacts with 1 human partners:{P11532}

12321 Pathogen[ P14075] interacts with 1 human partners:{P11532}

12322 Pathogen[ P0C206] interacts with 1 human partners:{P11532}

12323 Pathogen[ P03363] interacts with 1 human partners:{P11532}

12324 [Cluster 1121]GO:0031953+P biological\_process [name] negative regulation of protein autophosphorylation [def] "Any process that stops, prevents or decreases the rate of the phosphorylation by a protein of one or more of its own residues." [GOC

12325 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UJM3}

12326 Pathogen[ P0C214] interacts with 2 human partners:{Q9UJM3;P05412}

12327 Pathogen[ P03346] interacts with 2 human partners:{P05412;Q9UJM3}

12328 Pathogen[ Q85601] interacts with 2 human partners:{P05412;Q9UJM3}

12329 Pathogen[ P14079] interacts with 2 human partners:{Q9UJM3;P05412}

12330 Pathogen[ P03383] interacts with 2 human partners:{Q9UJM3;P05412}

12331 Pathogen[ P03410] interacts with 2 human partners:{P05412;Q9UJM3}

12332 Pathogen[ P14075] interacts with 2 human partners:{P05412;Q9UJM3}

12333 Pathogen[ P0C206] interacts with 2 human partners:{P05412;Q9UJM3}

12334 Pathogen[ P03363] interacts with 2 human partners:{P05412;Q9UJM3}

12335 [Cluster 1122]GO:0008631+P biological\_process [name] induction of apoptosis by oxidative stress [def] "The activation, by oxidative stress, of any of the steps required for cell death by apoptosis." [GOC

12336 Pathogen[ Q2Q067] interacts with 4 human partners:{Q9NR28;Q9UBF6;Q969S3;Q9BZF9}

12337 Pathogen[ P0C214] interacts with 5 human partners:{Q969S3;P42574;Q9BZF9;Q9NR28;Q9UBF6}

12338 Pathogen[ P03346] interacts with 5 human

partners:{Q969S3;Q9NR28;P42574;Q9BZF9;Q9UBF6}

12339 Pathogen[ Q85601] interacts with 4 human partners:{Q9BZF9;Q9NR28;Q969S3;Q9UBF6}

12340 Pathogen[ P14079] interacts with 4 human partners:{Q9UBF6;Q9NR28;Q9BZF9;Q969S3}

12341 Pathogen[ P03383] interacts with 4 human partners:{Q9BZF9;Q9UBF6;Q9NR28;Q969S3}

12342 Pathogen[ P03410] interacts with 4 human partners:{Q9NR28;Q969S3;Q9UBF6;Q9BZF9}

12343 Pathogen[ P14075] interacts with 4 human partners:{Q969S3;Q9NR28;Q9BZF9;Q9UBF6}

12344 Pathogen[ P0C206] interacts with 5 human partners:{Q9NR28;Q9UBF6;Q969S3;P42574;Q9BZF9}

12345 Pathogen[ P03363] interacts with 4 human partners:{Q9UBF6;Q9BZF9;Q9NR28;Q969S3}

12346 [Cluster 1123]GO:0032735+P biological\_process [name] positive regulation of interleukin-12 production [def] "Any process that activates or increases the frequency, rate, or extent of interleukin-12 production." [GOC

12347 Pathogen[ Q2Q067] interacts with 1 human partners:{Q02556}

12348 Pathogen[ P0C214] interacts with 2 human partners:{Q02556;P10809}

12349 Pathogen[ P03346] interacts with 1 human partners:{Q02556}

12350 Pathogen[ Q85601] interacts with 1 human partners:{Q02556}

12351 Pathogen[ P14079] interacts with 1 human partners:{Q02556}

12352 Pathogen[ P03383] interacts with 1 human partners:{Q02556}

12353 Pathogen[ P03410] interacts with 1 human partners:{Q02556}

12354 Pathogen[ P14075] interacts with 1 human partners:{Q02556}

12355 Pathogen[ P0C206] interacts with 1 human partners:{Q02556}

12356 Pathogen[ P03363] interacts with 1 human partners:{Q02556}

12357 [Cluster 1124]GO:0051208+P biological\_process [name] sequestering of calcium ion [def] "The process of binding or confining calcium ions such that they are separated from other components of a biological system." [GOC

12358 Pathogen[ Q2Q067] interacts with 2 human partners:{P27797;P14625}

12359 Pathogen[ P0C214] interacts with 2 human partners:{P14625;P27797}

12360 Pathogen[ P03346] interacts with 2 human partners:{P14625;P27797}

12361 Pathogen[ Q85601] interacts with 2 human partners:{P27797;P14625}

12362 Pathogen[ P14079] interacts with 1 human partners:{P14625}

12363 Pathogen[ P03383] interacts with 2 human partners:{P14625;P27797}

12364 Pathogen[ P03410] interacts with 2 human partners:{P14625;P27797}

12365 Pathogen[ P14075] interacts with 2 human partners:{P27797;P14625}

12366 Pathogen[ P0C206] interacts with 2 human partners:{P27797;P14625}

12367 Pathogen[ P03363] interacts with 1 human partners:{P27797}

12368 [Cluster 1125]GO:0042306+P biological\_process [name] regulation of protein import into nucleus [def] "Any process that modulates the frequency, rate or extent of movement of proteins from the cytoplasm to the nucleus." [GOC

12369 Pathogen[ Q2Q067] interacts with 1 human partners:{Q14978}

12370 Pathogen[ P0C214] interacts with 1 human partners:{Q14978}

12371 Pathogen[ P03346] interacts with 1 human partners:{Q14978}

12372 Pathogen[ Q85601] interacts with 1 human partners:{Q14978}

12373 Pathogen[ P14079] interacts with 1 human partners:{Q14978}

12374 Pathogen[ P03383] interacts with 1 human partners:{Q14978}

12375 Pathogen[ P03410] interacts with 1 human partners:{Q14978}

12376 Pathogen[ P14075] interacts with 1 human partners:{Q14978}

12377 Pathogen[ P0C206] interacts with 1 human partners:{Q14978}

12378 Pathogen[ P03363] interacts with 1 human partners:{Q14978}

12379 [Cluster 1126]GO:0006207+P biological\_process [name] 'de novo' pyrimidine base biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of pyrimidine bases, 1,3-diazine, organic nitrogenous bases, beginning with the synthesis of a pyrimidine ring from simpler precursors." [GOC

12380 Pathogen[ Q2Q067] interacts with 1 human partners:{P11172}

12381 Pathogen[ P0C214] interacts with 1 human partners:{P11172}

12382 Pathogen[ P03346] interacts with 1 human partners:{P11172}

12383 Pathogen[ Q85601] interacts with 1 human partners:{P11172}

12384 Pathogen[ P14079] interacts with 1 human partners:{P11172}

12385 Pathogen[ P03383] interacts with 1 human partners:{P11172}

12386 Pathogen[ P03410] interacts with 1 human partners:{P11172}

12387 Pathogen[ P14075] interacts with 1 human partners:{P11172}

12388 Pathogen[ P0C206] interacts with 1 human partners:{P11172}

12389 Pathogen[ P03363] interacts with 1 human partners:{P11172}

12390 [Cluster 1127]GO:0035048+P biological\_process [name] splicing factor protein import into nucleus [def] "The directed movement of a pre-mRNA splicing factor from the cytoplasm into the nucleus, across the nuclear membrane." [GOC

12391 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9Y5L0}

12392 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y5L0}

12393 Pathogen[ P03346] interacts with 1 human partners:{Q9Y5L0}

12394 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y5L0}

12395 Pathogen[ P14079] interacts with 1 human partners:{Q9Y5L0}

12396 Pathogen[ P03383] interacts with 1 human partners:{Q9Y5L0}

12397 Pathogen[ P03410] interacts with 1 human partners:{Q9Y5L0}

12398 Pathogen[ P14075] interacts with 1 human partners:{Q9Y5L0}

12399 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y5L0}

12400 Pathogen[ P03363] interacts with 1 human partners:{Q9Y5L0}

12401 [Cluster 1128]GO:0071549+P biological\_process [name] cellular response to

dexamethasone stimulus [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a dexamethasone stimulus." [GOC

12402 Pathogen[ Q2Q067] interacts with 2 human partners:{Q01664;P08397}

12403 Pathogen[ P0C214] interacts with 3 human partners:{P08397;P22830;Q01664}

12404 Pathogen[ P03346] interacts with 2 human partners:{P55211;Q01664}

12405 Pathogen[ Q85601] interacts with 2 human partners:{P08397;Q01664}

12406 Pathogen[ P14079] interacts with 3 human partners:{P08397;Q01664;P22830}

12407 Pathogen[ P03383] interacts with 2 human partners:{Q01664;P08397}

12408 Pathogen[ P03410] interacts with 3 human partners:{P08397;P22830;Q01664}

12409 Pathogen[ P14075] interacts with 2 human partners:{P08397;Q01664}

12410 Pathogen[ P0C206] interacts with 3 human partners:{P22830;Q01664;P08397}

12411 Pathogen[ P03363] interacts with 1 human partners:{Q01664}

12412 [Cluster 1129]GO:0031119+P biological\_process [name] tRNA pseudouridine synthesis [def] "The intramolecular conversion of uridine to pseudouridine in a tRNA molecule." [GOC

12413 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9Y606;Q9BZE2}

12414 Pathogen[ P0C214] interacts with 2 human partners:{Q9BZE2;Q9Y606}

12415 Pathogen[ P03346] interacts with 2 human partners:{Q9Y606;Q9BZE2}

12416 Pathogen[ Q85601] interacts with 2 human partners:{Q9BZE2;Q9Y606}

12417 Pathogen[ P14079] interacts with 2 human partners:{Q9BZE2;Q9Y606}

12418 Pathogen[ P03383] interacts with 2 human partners:{Q9BZE2;Q9Y606}

12419 Pathogen[ P03410] interacts with 2 human partners:{Q9BZE2;Q9Y606}

12420 Pathogen[ P14075] interacts with 2 human partners:{Q9Y606;Q9BZE2}

12421 Pathogen[ P0C206] interacts with 2 human partners:{Q9BZE2;Q9Y606}

12422 Pathogen[ P03363] interacts with 2 human partners:{Q9BZE2;Q9Y606}

12423 [Cluster 1130]GO:0043388+P biological\_process [name] positive regulation of DNA binding [def] "Any process that increases the frequency, rate or extent of DNA binding. DNA binding is any process in which a gene product interacts selectively with DNA (deoxyribonucleic acid)." [GOC

12424 Pathogen[ Q2Q067] interacts with 7 human partners:{Q15306;P12755;P10599;O60885;O60869;Q9HBD4;P53567}

12425 Pathogen[ P0C214] interacts with 7 human partners:{P53567;Q9HBD4;P12755;O60885;P10599;O60869;Q15306}

12426 Pathogen[ P03346] interacts with 6 human partners:{Q9HBD4;Q15306;O60885;P10599;P53567;O60869}

12427 Pathogen[ Q85601] interacts with 7 human partners:{P53567;Q15306;P12755;P10599;Q9HBD4;O60885;O60869}

12428 Pathogen[ P14079] interacts with 6 human partners:{P12755;P53567;O60869;Q15306;P10599;O60885}

12429 Pathogen[ P03383] interacts with 6 human partners:{Q9HBD4;P10599;Q15306;O60885;P53567;O60869}

12430 Pathogen[ P03410] interacts with 7 human partners:{P10599;O60885;P12755;P53567;Q15306;O60869;Q9HBD4}

12431 Pathogen[ P14075] interacts with 6 human partners:{Q9HBD4;P53567;Q15306;O60885;O60869;P10599}

12432 Pathogen[ P0C206] interacts with 7 human partners:{P53567;Q15306;P12755;O60885;O60869;Q9HBD4;P10599}

12433 Pathogen[ P03363] interacts with 5 human partners:{P53567;Q15306;O60885;Q9HBD4;O60869}

12434 [Cluster 1131]GO:0051256+P biological\_process [name] spindle midzone assembly involved in mitosis [def] "The formation of the spindle midzone, the area in the center of the spindle where the spindle microtubules from opposite poles overlap, as a part of the process of mitosis." [GOC

12435 Pathogen[ Q2Q067] interacts with 1 human partners:{Q02241}

12436 Pathogen[ P0C214] interacts with 1 human partners:{Q02241}

12437 Pathogen[ P03346] interacts with 1 human partners:{Q02241}

12438 Pathogen[ Q85601] interacts with 1 human partners:{Q02241}

12439 Pathogen[ P14079] interacts with 1 human partners:{Q02241}

12440 Pathogen[ P03383] interacts with 1 human partners:{Q02241}

12441 Pathogen[ P03410] interacts with 1 human partners:{Q02241}

12442 Pathogen[ P14075] interacts with 1 human partners:{Q02241}

12443 Pathogen[ P0C206] interacts with 1 human partners:{Q02241}

12444 Pathogen[ P03363] interacts with 1 human partners:{Q02241}

12445 [Cluster 1132]GO:0045899+P biological\_process [name] positive regulation of RNA polymerase II transcriptional preinitiation complex assembly [def] "Any process that activates or increases the frequency, rate or extent of RNA polymerase II transcriptional preinitiation complex assembly." [GOC

12446 Pathogen[ Q2Q067] interacts with 2 human partners:{Q86VP6;P35869}

12447 Pathogen[ P0C214] interacts with 2 human partners:{P35869;Q86VP6}

12448 Pathogen[ P03346] interacts with 2 human partners:{Q86VP6;P35869}

12449 Pathogen[ Q85601] interacts with 2 human partners:{Q86VP6;P35869}

12450 Pathogen[ P14079] interacts with 2 human partners:{P35869;Q86VP6}

12451 Pathogen[ P03383] interacts with 2 human partners:{Q86VP6;P35869}

12452 Pathogen[ P03410] interacts with 1 human partners:{Q86VP6}

12453 Pathogen[ P14075] interacts with 2 human partners:{P35869;Q86VP6}

12454 Pathogen[ P0C206] interacts with 2 human partners:{P35869;Q86VP6}  
12455 Pathogen[ P03363] interacts with 2 human partners:{P35869;Q86VP6}  
12456 [Cluster 1133]GO:0006729+P biological\_process [name] tetrahydrobiopterin biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of tetrahydrobiopterin, the reduced form of biopterin (2-amino-4-hydroxy-6-(1,2-dihydroxypropyl)-pteridine). It functions as a hydroxylation coenzyme, e.g. in the conversion of phenylalanine to tyrosine." [CHEBI  
12457 Pathogen[ Q2Q067] interacts with 4 human partners:{P30793;P61457;Q03393;Q9H0N5}  
12458 Pathogen[ P0C214] interacts with 6 human partners:{P09417;P61457;P35270;Q9H0N5;Q03393;P30793}  
12459 Pathogen[ P03346] interacts with 3 human partners:{Q03393;P61457;Q9H0N5}  
12460 Pathogen[ Q85601] interacts with 3 human partners:{Q9H0N5;P30793;P61457}  
12461 Pathogen[ P14079] interacts with 4 human partners:{P61457;P30793;Q9H0N5;Q03393}  
12462 Pathogen[ P03383] interacts with 2 human partners:{P61457;Q9H0N5}  
12463 Pathogen[ P03410] interacts with 4 human partners:{P30793;Q9H0N5;Q03393;P61457}  
12464 Pathogen[ P14075] interacts with 3 human partners:{Q9H0N5;P61457;P30793}  
12465 Pathogen[ P0C206] interacts with 4 human partners:{P30793;P61457;Q03393;Q9H0N5}  
12466 Pathogen[ P03363] interacts with 2 human partners:{Q9H0N5;P61457}  
12467 [Cluster 1134]GO:0048015+P biological\_process [name] phosphatidylinositol-mediated signaling [def] "A series of molecular signals in which a cell uses a phosphatidylinositol-mediated signaling to convert a signal into a response. Phosphatidylinositols include phosphatidylinositol (PtdIns) and its phosphorylated derivatives." [GOC  
12468 Pathogen[ Q2Q067] interacts with 24 human partners:{P31749;Q96R06;O00762;Q5T1C6;Q96B36;P11388;P12004;O43524;Q9BPZ7;Q9BVC4;P06396;P39748;Q96RU7;P04818;P33552;P27986;O95229;O14777;P46527;Q6R327;P61586;O15111;Q00987;P22736}  
12469 Pathogen[ P0C214] interacts with 26 human partners:{Q9BPZ7;O60346;O15111;Q9BVC4;P04818;O00762;Q92934;Q00987;Q96R06;P62166;P61586;P46527;O95229;P06396;Q6R327;Q96B36;Q9UQC2;P11388;Q96RU7;P39748;Q5T1C6;P16220;P33552;P27986;P31749;O14777}  
12470 Pathogen[ P03346] interacts with 31 human partners:{P12004;O60346;O15111;O95229;P16220;P11388;Q9BVC4;Q96R06;Q9BPZ7;Q9UQC2;Q00987;O14777;Q96B36;P22736;P31749;O00762;P33552;Q12778;P98177;P35249;P62166;Q96RU7;P55211;P06396;P39748;Q6R327;P46527;O43524;O14965;P27986;P61586}  
12471 Pathogen[ Q85601] interacts with 26 human partners:{O60346;O95229;P31749;P06396;Q9UQC2;O15111;Q9BPZ7;Q96B36;Q96R06;P27986;Q9BVC4;O14965;P16220;P33552;P22736;P11388;O00762;P61586;Q96RU7;P12004;P39748;Q00987;P62166;Q5T1C6;O14777;P46527}  
12472 Pathogen[ P14079] interacts with 24 human partners:{Q6R327;P11388;Q96R06;O95229;P22736;O60346;Q9BVC4;Q00987;P33552;Q92934;Q5T1C6;P62166;P61586;Q96RU7;P46527;Q96B36;P12004;O00762;Q9BPZ7;O14965;Q9UQC2;P04818;O14777;P39748}  
12473 Pathogen[ P03383] interacts with 17 human partners:{P27986;P16220;P31749;Q9BPZ7;O15111;O00762;Q96B36;Q96R06;P33552;O95229;P61586;P46527;O14965;Q96RU7;O14777;Q5T1C6;P06396}  
12474 Pathogen[ P03410] interacts with 29 human partners:{Q9UQC2;P46527;P27986;O15111;P06396;Q9BPZ7;P31749;Q92934;P39748;Q9BVC4;Q96R06;O14965;Q96B36;P33552;Q5T1C6;P61586;P04818;P22736;P16220;Q6R327;P11388;Q96RU7;O60346;O00762;O95229;Q00987;P62166;P12004;O14777}  
12475 Pathogen[ P14075] interacts with 18 human partners:{O15111;Q96R06;Q5T1C6;O14777;O95229;P46527;Q9BPZ7;Q96B36;P31749;O00762;O14965;Q6R327;P27986;P06396;P61586;Q96RU7;P16220;P33552}  
12476 Pathogen[ P0C206] interacts with 28 human partners:{P06396;P31749;P16220;P62166;Q96B36;O14777;P22736;P27986;Q96RU7;P61586;Q92934;Q6R327;O15111;Q5T1C6;P46527;Q9BPZ7;O00762;P04818;P33552;O60346;P11388;Q00987;O14965;P39748;Q9UQC2;Q9BVC4;O95229;P12004}  
12477 Pathogen[ P03363] interacts with 15 human partners:{Q9BVC4;Q96B36;O00762;O95229;P33552;O15111;P16220;P06396;O43524;Q96R06;P31749;O14777;P27986;Q6R327;Q9UQC2}  
12478 [Cluster 1135]GO:0070145+P biological\_process [name] mitochondrial asparaginyl-tRNA aminoacylation [def] "The process of coupling asparagine to asparaginyl-tRNA in a mitochondrion, catalyzed by asparaginyl-tRNA synthetase. In tRNA aminoacylation, the amino acid is first activated by linkage to AMP and then transferred to either the 2'- or the 3'-hydroxyl group of the 3'-adenosine residue of the tRNA." [GOC  
12479 Pathogen[ Q2Q067] interacts with 1 human partners:{Q6PI48}  
12480 Pathogen[ P0C214] interacts with 1 human partners:{Q6PI48}  
12481 Pathogen[ P03346] interacts with 1 human partners:{Q6PI48}  
12482 Pathogen[ Q85601] interacts with 1 human partners:{Q6PI48}  
12483 Pathogen[ P14079] interacts with 1 human partners:{Q6PI48}  
12484 Pathogen[ P03383] interacts with 1 human partners:{Q6PI48}  
12485 Pathogen[ P03410] interacts with 1 human partners:{Q6PI48}  
12486 Pathogen[ P14075] interacts with 1 human partners:{Q6PI48}  
12487 Pathogen[ P0C206] interacts with 1 human partners:{Q6PI48}  
12488 Pathogen[ P03363] interacts with 1 human partners:{Q6PI48}  
12489 [Cluster 1136]GO:0001934+P biological\_process [name] positive regulation of protein

phosphorylation [def] "Any process that activates or increases the frequency, rate or extent of addition of phosphate groups to amino acids within a protein." [GOC

12490 Pathogen[ Q2Q067] interacts with 14 human  
partners:{P30281;P31749;P24385;Q9BZQ8;P30279;Q8TDY2;Q9H8T0;O14641;Q13526;Q9HC62;P60953;P27986;Q9HAT8;P02489}

12491 Pathogen[ P0C214] interacts with 14 human  
partners:{P02489;Q13526;P60953;Q9HAT8;Q8TDY2;P24385;Q9H8T0;Q9BZQ8;O14641;P30281;P30279;Q9HC62;P27986;P31749}

12492 Pathogen[ P03346] interacts with 14 human  
partners:{P30281;P24385;P30279;P02489;Q8TDY2;P60953;Q13526;Q9H8T0;O14641;P31749;Q9BZQ8;Q9HAT8;Q9HC62;P27986}

12493 Pathogen[ Q85601] interacts with 14 human  
partners:{P30281;P02489;P31749;P24385;Q9HC62;Q9HAT8;Q8TDY2;Q9BZQ8;P27986;Q9H8T0;O14641;Q13526;P30279;P60953}

12494 Pathogen[ P14079] interacts with 12 human  
partners:{P31751;Q9HAT8;Q8TDY2;O14641;P24588;O43432;Q9H8T0;P02489;Q7Z434;Q9HC62;Q13526;Q9BZQ8}

12495 Pathogen[ P03383] interacts with 13 human  
partners:{P27986;P31749;P60953;P24385;Q8TDY2;P30279;Q9BZQ8;Q9H8T0;O14641;Q9HC62;P30281;Q13526;Q9HAT8}

12496 Pathogen[ P03410] interacts with 17 human  
partners:{P27986;P30279;Q13526;Q8TDY2;Q9H8T0;P31749;O43432;Q7Z434;P24385;Q9HC62;P02489;Q9HAT8;P30281;P60953;Q9BZQ8;P24588;O14641}

12497 Pathogen[ P14075] interacts with 13 human  
partners:{P60953;P30281;P30279;Q8TDY2;P31749;Q9H8T0;O14641;Q9BZQ8;Q13526;Q9HC62;Q9HAT8;P27986;P24385}

12498 Pathogen[ P0C206] interacts with 13 human  
partners:{Q9BZQ8;P31749;Q13526;P30279;Q9H8T0;Q9HC62;Q9HAT8;P27986;Q8TDY2;P60953;P02489;P24385;P30281}

12499 Pathogen[ P03363] interacts with 14 human  
partners:{Q9BZQ8;P30279;Q13526;P31749;Q9HC62;Q8TDY2;Q9H8T0;P24385;P02489;Q9HAT8;P30281;O14641;P60953;P27986}

12500 [Cluster 1137]GO:0060548+P biological\_process [name] negative regulation of cell death [def] "Any process that decreases the rate or frequency of cell death. Cell death is the specific activation or halting of processes within a cell so that its vital functions markedly cease, rather than simply deteriorating gradually over time, which culminates in cell death." [GOC

12501 Pathogen[ Q2Q067] interacts with 9 human  
partners:{Q8WW38;Q13485;Q99497;Q15562;O60260;Q9Y6J0;Q9HB71;Q6IQ32;P16455}

12502 Pathogen[ P0C214] interacts with 9 human  
partners:{Q6IQ32;Q99497;Q13485;Q8WW38;P16455;O60260;Q15562;Q9HB71;Q9Y6J0}

12503 Pathogen[ P03346] interacts with 10 human  
partners:{Q06945;Q15562;Q8WW38;Q6ZPB5;Q9HB71;Q9Y6J0;Q6IQ32;Q99497;O60260;Q13485}

12504 Pathogen[ Q85601] interacts with 9 human  
partners:{Q99497;Q8WW38;P16455;Q9Y6J0;Q6IQ32;Q15562;O60260;Q13485;Q9HB71}

12505 Pathogen[ P14079] interacts with 9 human  
partners:{O60260;Q6ZPB5;Q99497;P16455;Q9HB71;Q15562;Q6IQ32;Q8WW38;Q9Y6J0}

12506 Pathogen[ P03383] interacts with 7 human  
partners:{Q13485;Q15562;Q8WW38;Q6IQ32;Q6ZPB5;Q9HB71;O60260}

12507 Pathogen[ P03410] interacts with 10 human  
partners:{Q9Y6J0;Q9HB71;Q99497;O60260;Q8WW38;Q6IQ32;P16455;Q13485;Q6ZPB5;Q15562}

12508 Pathogen[ P14075] interacts with 7 human  
partners:{Q15562;Q8WW38;Q13485;Q6IQ32;Q6ZPB5;O60260;Q9HB71}

12509 Pathogen[ P0C206] interacts with 10 human  
partners:{Q9HB71;Q8WW38;Q99497;Q9Y6J0;Q6IQ32;O60260;Q15562;Q13485;Q6ZPB5;P16455}

12510 Pathogen[ P03363] interacts with 7 human  
partners:{Q9Y6J0;Q9HB71;Q15562;Q6ZPB5;Q13485;Q6IQ32;Q8WW38}

12511 [Cluster 1138]GO:0000089+P biological\_process [name] mitotic metaphase [def] "Metaphase occurring as part of mitosis. Metaphase is the part of nuclear division in which, canonically, chromosomes become aligned on the equatorial plate of the cell. Mitosis is the cell cycle process in which, canonically, the nucleus of a eukaryotic cell divides to produce two daughter nuclei whose chromosome complement is identical to that of the mother cell." [ISBN

12512 Pathogen[ Q2Q067] interacts with 4 human partners:{Q53HL2;O00541;Q9Y6D9;Q9UKT4}

12513 Pathogen[ P0C214] interacts with 4 human partners:{Q53HL2;O00541;Q9UKT4;Q9Y6D9}

12514 Pathogen[ P03346] interacts with 4 human partners:{Q9Y6D9;O00541;Q53HL2;Q9UKT4}

12515 Pathogen[ Q85601] interacts with 4 human partners:{O00541;Q9UKT4;Q53HL2;Q9Y6D9}

12516 Pathogen[ P14079] interacts with 3 human partners:{Q9UKT4;Q53HL2;O00541}

12517 Pathogen[ P03383] interacts with 4 human partners:{O00541;Q9UKT4;Q53HL2;Q9Y6D9}

12518 Pathogen[ P03410] interacts with 3 human partners:{Q9UKT4;Q53HL2;O00541}

12519 Pathogen[ P14075] interacts with 4 human partners:{Q9Y6D9;Q9UKT4;O00541;Q53HL2}

12520 Pathogen[ P0C206] interacts with 4 human partners:{Q9Y6D9;Q9UKT4;Q53HL2;O00541}

12521 Pathogen[ P03363] interacts with 4 human partners:{Q9Y6D9;Q53HL2;Q9UKT4;O00541}

12522 [Cluster 1139]GO:0017126+P biological\_process [name] nucleogenesis [def] "A cellular process that results in the biosynthesis of constituent macromolecules, assembly, and arrangement of constituent parts of a nucleolus, a small, dense body one



or more of which are present in the nucleus of eukaryotic cells." [GOC

12523 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9H9Y6}

12524 Pathogen[ P0C214] interacts with 1 human partners:{Q9H9Y6}

12525 Pathogen[ P03346] interacts with 1 human partners:{Q9H9Y6}

12526 Pathogen[ Q85601] interacts with 1 human partners:{Q9H9Y6}

12527 Pathogen[ P14079] interacts with 1 human partners:{Q9H9Y6}

12528 Pathogen[ P03383] interacts with 1 human partners:{Q9H9Y6}

12529 Pathogen[ P03410] interacts with 1 human partners:{Q9H9Y6}

12530 Pathogen[ P14075] interacts with 1 human partners:{Q9H9Y6}

12531 Pathogen[ P0C206] interacts with 1 human partners:{Q9H9Y6}

12532 Pathogen[ P03363] interacts with 1 human partners:{Q9H9Y6}

12533 [Cluster 1140]GO:0048871+P biological\_process [name] multicellular organismal homeostasis [def] "Any process involved in the maintenance of an internal steady state at the level of the multicellular organism." [GOC

12534 Pathogen[ Q2Q067] interacts with 2 human partners:{Q8WUF5;Q99608}

12535 Pathogen[ P0C214] interacts with 2 human partners:{Q8WUF5;Q99608}

12536 Pathogen[ P03346] interacts with 2 human partners:{Q8WUF5;Q99608}

12537 Pathogen[ Q85601] interacts with 2 human partners:{Q99608;Q8WUF5}

12538 Pathogen[ P14079] interacts with 2 human partners:{Q8WUF5;Q99608}

12539 Pathogen[ P03383] interacts with 2 human partners:{Q99608;Q8WUF5}

12540 Pathogen[ P03410] interacts with 2 human partners:{Q99608;Q8WUF5}

12541 Pathogen[ P14075] interacts with 2 human partners:{Q99608;Q8WUF5}

12542 Pathogen[ P0C206] interacts with 2 human partners:{Q8WUF5;Q99608}

12543 Pathogen[ P03363] interacts with 2 human partners:{Q8WUF5;Q99608}

12544 [Cluster 1141]GO:0070286+P biological\_process [name] axonemal dynein complex assembly [def] "The aggregation, arrangement and bonding together of a set of components to form an axonemal dynein complex, a dynein complex found in eukaryotic cilia and flagella, in which the motor domain heads interact with adjacent microtubules to generate a sliding force which is converted to a bending motion." [GOC

12545 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NVR5}

12546 Pathogen[ P0C214] interacts with 1 human partners:{Q9NVR5}

12547 Pathogen[ P03346] interacts with 2 human partners:{Q9NVR5;Q8N9W5}

12548 Pathogen[ Q85601] interacts with 1 human partners:{Q9NVR5}

12549 Pathogen[ P14079] interacts with 4 human partners:{Q9NVR5;Q8N9W5;Q8IW40;Q9UFE4}

12550 Pathogen[ P03383] interacts with 1 human partners:{Q9NVR5}

12551 Pathogen[ P03410] interacts with 4 human partners:{Q9UFE4;Q8N9W5;Q9NVR5;Q8IW40}

12552 Pathogen[ P14075] interacts with 2 human partners:{Q9NVR5;Q8N9W5}

12553 Pathogen[ P0C206] interacts with 4 human partners:{Q9NVR5;Q9UFE4;Q8N9W5;Q8IW40}

12554 Pathogen[ P03363] interacts with 3 human partners:{Q9NVR5;Q8IW40;Q8N9W5}

12555 [Cluster 1142]GO:0017148+P biological\_process [name] negative regulation of translation [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the chemical reactions and pathways resulting in the formation of proteins by the translation of mRNA." [GOC

12556 Pathogen[ Q2Q067] interacts with 11 human partners:{O00425;C9JE40;Q9Y6M1;P38919;Q13541;P27797;Q9Y2T7;Q9P0J0;O60516;Q8WY41;Q13542}

12557 Pathogen[ P0C214] interacts with 16 human partners:{P51114;C9JE40;P31483;O00425;Q9UPU9;O60516;Q9NZI8;Q13542;Q9Y2T7;Q9P0J0;P38919;Q8WY41;P27797;Q9Y6M1;Q14011;Q13541}

12558 Pathogen[ P03346] interacts with 16 human partners:{Q13542;Q14011;Q9Y6M1;O00425;Q13541;Q9NZI8;P38919;Q9BWF3;P31483;Q8WY41;P27797;Q9Y2T7;P51114;Q9P0J0;O60516;C9JE40}

12559 Pathogen[ Q85601] interacts with 13 human partners:{Q9Y2T7;Q9P0J0;C9JE40;P27797;O60516;Q13541;P38919;Q9Y6M1;O00425;Q8WY41;Q9UPU9;P51114;Q13542}

12560 Pathogen[ P14079] interacts with 13 human partners:{Q8WY41;C9JE40;Q9UPU9;Q14444;Q13541;Q9Y2T7;Q9Y6M1;Q9P0J0;Q13542;Q14011;O60516;O00425;P31483}

12561 Pathogen[ P03383] interacts with 10 human partners:{P38919;Q9Y2T7;Q13542;Q13541;Q8WY41;C9JE40;O00425;Q9P0J0;O60516;P27797}

12562 Pathogen[ P03410] interacts with 15 human partners:{Q13541;Q9UPU9;P31483;Q13542;Q14011;P38919;P51114;O00425;Q9P0J0;O60516;Q9Y2T7;Q8WY41;C9JE40;Q9Y6M1;P27797}

12563 Pathogen[ P14075] interacts with 10 human partners:{Q13542;O60516;Q9Y2T7;P27797;Q8WY41;O00425;P38919;Q9P0J0;Q13541;C9JE40}

12564 Pathogen[ P0C206] interacts with 15 human partners:{Q13541;P31483;P27797;C9JE40;Q14011;Q8WY41;P51114;Q13542;Q9UPU9;Q9P0J0;P38919;Q9Y6M1;Q9Y2T7;O60516;O00425}

12565 Pathogen[ P03363] interacts with 17 human partners:{P38919;O00425;Q9Y6M1;Q8WY41;Q9BWF3;C9JE40;Q9UPU9;Q9NZI8;Q9P0J0;P27797;Q14011;P51114;P31483;Q13541;Q9Y2T7;O60516;Q13542}

12566 [Cluster 1143]GO:0031102+P biological\_process [name] neuron projection regeneration [def] "The regrowth of neuronal processes such as axons or dendrites in response to their loss or damage." [GOC

12567 Pathogen[ Q2Q067] interacts with 1 human partners:{P14136}

12568 Pathogen[ P0C214] interacts with 1 human partners:{P14136}

12569 Pathogen[ P03346] interacts with 1 human partners:{P14136}  
12570 Pathogen[ Q85601] interacts with 1 human partners:{P14136}  
12571 Pathogen[ P14079] interacts with 1 human partners:{P14136}  
12572 Pathogen[ P03383] interacts with 1 human partners:{P14136}  
12573 Pathogen[ P03410] interacts with 1 human partners:{P14136}  
12574 Pathogen[ P14075] interacts with 1 human partners:{P14136}  
12575 Pathogen[ P0C206] interacts with 1 human partners:{P14136}  
12576 Pathogen[ P03363] interacts with 1 human partners:{P14136}  
12577 [Cluster 1144]GO:0032880+P biological\_process [name] regulation of protein localization [def] "Any process that modulates the frequency, rate or extent of any process in which a protein is transported to, or maintained in, a specific location." [GOC  
12578 Pathogen[ Q2Q067] interacts with 6 human partners:{P31749;Q6PGQ7;P63165;O76021;Q86WG3;Q969H0}  
12579 Pathogen[ P0C214] interacts with 8 human partners:{O76021;Q9BXT5;P52565;P63165;Q969H0;Q86WG3;Q6PGQ7;P31749}  
12580 Pathogen[ P03346] interacts with 13 human partners:{O76021;O75592;Q9BXT5;P52565;Q8N960;P31749;Q15019;P63165;Q13492;Q9ULV0;Q969H0;Q6PGQ7;Q86WG3}  
12581 Pathogen[ Q85601] interacts with 8 human partners:{Q9BXT5;P31749;Q969H0;P52565;Q6PGQ7;Q86WG3;P63165;O76021}  
12582 Pathogen[ P14079] interacts with 12 human partners:{Q13492;P52565;Q6PGQ7;Q9BXT5;Q86WG3;O95876;Q969H0;Q16517;P63165;Q8N960;P45983;O76021}  
12583 Pathogen[ P03383] interacts with 6 human partners:{Q86WG3;P31749;Q6PGQ7;P63165;Q969H0;O76021}  
12584 Pathogen[ P03410] interacts with 13 human partners:{Q8N960;P63165;Q16517;Q9ULV0;Q86WG3;P31749;Q13492;Q969H0;Q9BXT5;O95876;Q6PGQ7;O76021;P52565}  
12585 Pathogen[ P14075] interacts with 7 human partners:{P63165;O76021;Q86WG3;P31749;Q9BXT5;Q969H0;Q6PGQ7}  
12586 Pathogen[ P0C206] interacts with 11 human partners:{P31749;Q15019;P52565;Q6PGQ7;Q969H0;Q9BXT5;O76021;P63165;Q86WG3;O95876;Q8N960}  
12587 Pathogen[ P03363] interacts with 9 human partners:{P52565;Q6PGQ7;O76021;P63165;Q86WG3;P31749;Q969H0;Q9BXT5;Q8N960}  
12588 [Cluster 1145]GO:0042246+P biological\_process [name] tissue regeneration [def] "The regrowth of lost or destroyed tissues." [GOC  
12589 Pathogen[ Q2Q067] interacts with 4 human partners:{Q8IVN3;P14635;P06396;Q16352}  
12590 Pathogen[ P0C214] interacts with 7 human partners:{P50440;Q9UK55;Q16352;P14635;P06396;P05121;Q8IVN3}  
12591 Pathogen[ P03346] interacts with 4 human partners:{Q16352;Q8IVN3;P14635;P06396}  
12592 Pathogen[ Q85601] interacts with 6 human partners:{P06396;Q8IVN3;P14635;P05121;Q16352;P17677}  
12593 Pathogen[ P14079] interacts with 6 human partners:{P17677;P48230;P14635;Q8IVN3;Q92982;P50440}  
12594 Pathogen[ P03383] interacts with 4 human partners:{Q16352;P14635;Q8IVN3;P06396}  
12595 Pathogen[ P03410] interacts with 9 human partners:{P05121;P06396;Q16352;P14635;Q8IVN3;Q9NZG7;P48230;P17677;P50440}  
12596 Pathogen[ P14075] interacts with 5 human partners:{Q16352;P14635;P06396;Q8IVN3;P50440}  
12597 Pathogen[ P0C206] interacts with 7 human partners:{P06396;P17677;Q8IVN3;P50440;P05121;P14635;Q16352}  
12598 Pathogen[ P03363] interacts with 3 human partners:{Q16352;P06396;Q8IVN3}  
12599 [Cluster 1146]GO:0007468+P biological\_process [name] regulation of rhodopsin gene expression [def] "Any process that modulates the frequency, rate or extent of rhodopsin gene expression. This includes transcriptional, translational, or posttranslational regulation." [GOC  
12600 Pathogen[ Q2Q067] interacts with 1 human partners:{P54845}  
12601 Pathogen[ P0C214] interacts with 1 human partners:{P54845}  
12602 Pathogen[ P03346] interacts with 1 human partners:{P54845}  
12603 Pathogen[ Q85601] interacts with 1 human partners:{P54845}  
12604 Pathogen[ P14079] interacts with 1 human partners:{P54845}  
12605 Pathogen[ P03383] interacts with 1 human partners:{P54845}  
12606 Pathogen[ P03410] interacts with 1 human partners:{P54845}  
12607 Pathogen[ P14075] interacts with 1 human partners:{P54845}  
12608 Pathogen[ P0C206] interacts with 1 human partners:{P54845}  
12609 Pathogen[ P03363] interacts with 1 human partners:{P54845}  
12610 [Cluster 1147]GO:0032066+P biological\_process [name] nucleolus to nucleoplasm transport [def] "The directed movement of substances from the nucleolus to the nucleoplasm." [GOC  
12611 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9Y3T9;Q3YBR2}  
12612 Pathogen[ P0C214] interacts with 2 human partners:{Q9Y3T9;Q3YBR2}  
12613 Pathogen[ P03346] interacts with 2 human partners:{Q3YBR2;Q9Y3T9}  
12614 Pathogen[ Q85601] interacts with 2 human partners:{Q3YBR2;Q9Y3T9}  
12615 Pathogen[ P14079] interacts with 2 human partners:{Q9Y3T9;Q3YBR2}

12616 Pathogen[ P03383] interacts with 2 human partners:{Q9Y3T9;Q3YBR2}  
12617 Pathogen[ P03410] interacts with 2 human partners:{Q9Y3T9;Q3YBR2}  
12618 Pathogen[ P14075] interacts with 2 human partners:{Q3YBR2;Q9Y3T9}  
12619 Pathogen[ P0C206] interacts with 2 human partners:{Q3YBR2;Q9Y3T9}  
12620 Pathogen[ P03363] interacts with 2 human partners:{Q3YBR2;Q9Y3T9}  
12621 [Cluster 1148]GO:0070171+P biological\_process [name] negative regulation of tooth mineralization [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of tooth mineralization, the deposition of calcium salts in tooth structures." [GOC  
12622 Pathogen[ Q2Q067] interacts with 1 human partners:{Q6W2J9}  
12623 Pathogen[ P0C214] interacts with 1 human partners:{Q6W2J9}  
12624 Pathogen[ P03346] interacts with 1 human partners:{Q6W2J9}  
12625 Pathogen[ Q85601] interacts with 1 human partners:{Q6W2J9}  
12626 Pathogen[ P14079] interacts with 1 human partners:{Q6W2J9}  
12627 Pathogen[ P03383] interacts with 1 human partners:{Q6W2J9}  
12628 Pathogen[ P03410] interacts with 1 human partners:{Q6W2J9}  
12629 Pathogen[ P14075] interacts with 1 human partners:{Q6W2J9}  
12630 Pathogen[ P0C206] interacts with 1 human partners:{Q6W2J9}  
12631 Pathogen[ P03363] interacts with 1 human partners:{Q6W2J9}  
12632 [Cluster 1149]GO:0007253+P biological\_process [name] cytoplasmic sequestering of NF-kappaB [def] "The selective interaction of the transcription factor NF-kappaB with specific molecules in the cytoplasm, thereby inhibiting its translocation into the nucleus." [GOC  
12633 Pathogen[ Q2Q067] interacts with 4 human partners:{075832;Q15653;Q9UNN5;P25963}  
12634 Pathogen[ P0C214] interacts with 4 human partners:{Q15653;075832;Q9UNN5;P25963}  
12635 Pathogen[ P03346] interacts with 4 human partners:{P25963;Q15653;075832;Q9UNN5}  
12636 Pathogen[ Q85601] interacts with 4 human partners:{075832;Q15653;Q9UNN5;P25963}  
12637 Pathogen[ P14079] interacts with 3 human partners:{075832;Q9UNN5;Q15653}  
12638 Pathogen[ P03383] interacts with 4 human partners:{Q15653;075832;Q9UNN5;P25963}  
12639 Pathogen[ P03410] interacts with 4 human partners:{Q9UNN5;Q15653;P25963;075832}  
12640 Pathogen[ P14075] interacts with 4 human partners:{075832;Q15653;P25963;Q9UNN5}  
12641 Pathogen[ P0C206] interacts with 4 human partners:{Q9UNN5;075832;P25963;Q15653}  
12642 Pathogen[ P03363] interacts with 3 human partners:{Q9UNN5;P25963;Q15653}  
12643 [Cluster 1150]GO:0022409+P biological\_process [name] positive regulation of cell-cell adhesion [def] "Any process that activates or increases the rate or extent of cell adhesion to another cell." [GOC  
12644 Pathogen[ Q2Q067] interacts with 1 human partners:{015105}  
12645 Pathogen[ P0C214] interacts with 2 human partners:{095633;015105}  
12646 Pathogen[ P03346] interacts with 2 human partners:{015105;095633}  
12647 Pathogen[ Q85601] interacts with 1 human partners:{015105}  
12648 Pathogen[ P14079] interacts with 2 human partners:{Q08722;015105}  
12649 Pathogen[ P03383] interacts with 1 human partners:{015105}  
12650 Pathogen[ P03410] interacts with 2 human partners:{Q08722;015105}  
12651 Pathogen[ P14075] interacts with 1 human partners:{015105}  
12652 Pathogen[ P0C206] interacts with 2 human partners:{095633;015105}  
12653 Pathogen[ P03363] interacts with 1 human partners:{015105}  
12654 [Cluster 1151]GO:0071902+P biological\_process [name] positive regulation of protein serine/threonine kinase activity [def] "Any process that increases the rate, frequency, or extent of protein serine/threonine kinase activity." [GOC  
12655 Pathogen[ Q2Q067] interacts with 1 human partners:{P67775}  
12656 Pathogen[ P0C214] interacts with 1 human partners:{P67775}  
12657 Pathogen[ P03346] interacts with 1 human partners:{P67775}  
12658 Pathogen[ Q85601] interacts with 1 human partners:{P67775}  
12659 Pathogen[ P14079] interacts with 2 human partners:{043597;Q15078}  
12660 Pathogen[ P03383] interacts with 1 human partners:{P67775}  
12661 Pathogen[ P03410] interacts with 2 human partners:{043597;P67775}  
12662 Pathogen[ P14075] interacts with 1 human partners:{P67775}  
12663 Pathogen[ P0C206] interacts with 2 human partners:{P67775;043597}  
12664 Pathogen[ P03363] interacts with 1 human partners:{P67775}  
12665 [Cluster 1152]GO:0032025+P biological\_process [name] response to cobalt ion [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a cobalt ion stimulus." [GOC  
12666 Pathogen[ Q2Q067] interacts with 2 human partners:{Q14790;P08397}  
12667 Pathogen[ P0C214] interacts with 3 human partners:{P08397;P18846;Q14790}  
12668 Pathogen[ P03346] interacts with 2 human partners:{Q14790;P18846}  
12669 Pathogen[ Q85601] interacts with 3 human partners:{Q14790;P18846;P08397}  
12670 Pathogen[ P14079] interacts with 2 human partners:{Q14790;P08397}  
12671 Pathogen[ P03383] interacts with 2 human partners:{P18846;P08397}  
12672 Pathogen[ P03410] interacts with 2 human partners:{P08397;P18846}  
12673 Pathogen[ P14075] interacts with 2 human partners:{P08397;P18846}  
12674 Pathogen[ P0C206] interacts with 3 human partners:{P18846;Q14790;P08397}  
12675 Pathogen[ P03363] interacts with 1 human partners:{P18846}  
12676 [Cluster 1153]GO:0060135+P biological\_process [name] maternal process involved in female pregnancy [def] "A reproductive process occurring in the mother that allows an embryo or fetus to develop within it." [GOC

12677 Pathogen[ Q2Q067] interacts with 2 human partners:{000255;P49459}  
12678 Pathogen[ POC214] interacts with 3 human partners:{P49459;P35520;O00255}  
12679 Pathogen[ P03346] interacts with 2 human partners:{P49459;O00255}  
12680 Pathogen[ Q85601] interacts with 2 human partners:{000255;P49459}  
12681 Pathogen[ P14079] interacts with 3 human partners:{P24588;P49459;O00255}  
12682 Pathogen[ P03383] interacts with 2 human partners:{000255;P49459}  
12683 Pathogen[ P03410] interacts with 3 human partners:{P49459;O00255;P24588}  
12684 Pathogen[ P14075] interacts with 2 human partners:{P49459;O00255}  
12685 Pathogen[ POC206] interacts with 2 human partners:{000255;P49459}  
12686 Pathogen[ P03363] interacts with 1 human partners:{P49459}  
12687 [Cluster 1154]GO:0030239+P biological\_process [name] myofibril assembly [def] "Formation of myofibrils, the repeating units of striated muscle." [GOC  
12688 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NP98}  
12689 Pathogen[ POC214] interacts with 3 human partners:{Q9NP98;P35580;P13533}  
12690 Pathogen[ P03346] interacts with 2 human partners:{P28289;Q9NP98}  
12691 Pathogen[ Q85601] interacts with 3 human partners:{P13533;P35580;Q9NP98}  
12692 Pathogen[ P14079] interacts with 3 human partners:{Q9NP98;P28289;Q9BR09}  
12693 Pathogen[ P03383] interacts with 2 human partners:{P35580;Q9NP98}  
12694 Pathogen[ P03410] interacts with 5 human partners:{Q9NP98;Q9BR09;P28289;P35580;P13533}  
12695 Pathogen[ P14075] interacts with 1 human partners:{Q9NP98}  
12696 Pathogen[ POC206] interacts with 4 human partners:{P13533;Q9NP98;Q9BR09;P35580}  
12697 Pathogen[ P03363] interacts with 3 human partners:{Q9BR09;Q9NP98;P28289}  
12698 [Cluster 1155]GO:0048468+P biological\_process [name] cell development [def] "The process whose specific outcome is the progression of the cell over time, from its formation to the mature structure. Cell development does not include the steps involved in committing a cell to a specific fate." [GOC  
12699 Pathogen[ Q2Q067] interacts with 6 human partners:{Q9ULV5;P15976;O14896;O75444;Q14865;P15923}  
12700 Pathogen[ POC214] interacts with 5 human partners:{O75444;Q14865;P15923;O14896;Q9ULV5}  
12701 Pathogen[ P03346] interacts with 10 human partners:{P07992;P15923;O75444;P15976;O95096;O14896;P78411;Q14865;P50542;Q9ULV5}  
12702 Pathogen[ Q85601] interacts with 6 human partners:{O14896;P15976;Q9ULV5;O75444;Q14865;P15923}  
12703 Pathogen[ P14079] interacts with 8 human partners:{O14896;Q14865;P15976;P15923;P50542;O75444;Q9ULV5;P07992}  
12704 Pathogen[ P03383] interacts with 4 human partners:{P15923;O14896;Q9ULV5;O75444}  
12705 Pathogen[ P03410] interacts with 8 human partners:{O14896;P07992;O75444;P15923;P50542;Q9ULV5;Q14865;P15976}  
12706 Pathogen[ P14075] interacts with 4 human partners:{O75444;P15923;Q9ULV5;O14896}  
12707 Pathogen[ POC206] interacts with 9 human partners:{O75444;P78411;P15976;P50542;P07992;Q9ULV5;P15923;O14896;Q14865}  
12708 Pathogen[ P03363] interacts with 6 human partners:{Q14865;O14896;P78411;P15923;O75444;Q9ULV5}  
12709 [Cluster 1156]GO:0045927+P biological\_process [name] positive regulation of growth [def] "Any process that activates or increases the rate or extent of growth, the increase in size or mass of all or part of an organism." [GOC  
12710 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9NZI6;P49593}  
12711 Pathogen[ POC214] interacts with 2 human partners:{Q9NZI6;P49593}  
12712 Pathogen[ P03346] interacts with 2 human partners:{Q9NZI6;P49593}  
12713 Pathogen[ Q85601] interacts with 2 human partners:{P49593;Q9NZI6}  
12714 Pathogen[ P14079] interacts with 2 human partners:{P49593;Q9NZI6}  
12715 Pathogen[ P03383] interacts with 1 human partners:{Q9NZI6}  
12716 Pathogen[ P03410] interacts with 2 human partners:{P49593;Q9NZI6}  
12717 Pathogen[ P14075] interacts with 1 human partners:{Q9NZI6}  
12718 Pathogen[ POC206] interacts with 2 human partners:{P49593;Q9NZI6}  
12719 Pathogen[ P03363] interacts with 1 human partners:{Q9NZI6}  
12720 [Cluster 1157]GO:0046676+P biological\_process [name] negative regulation of insulin secretion [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the regulated release of insulin." [GOC  
12721 Pathogen[ Q2Q067] interacts with 6 human partners:{O00233;Q08209;Q9Y6E7;P36956;Q13127;Q16836}  
12722 Pathogen[ POC214] interacts with 4 human partners:{Q08209;Q13127;O00233;Q9Y6E7}  
12723 Pathogen[ P03346] interacts with 6 human partners:{P36956;Q16836;Q9Y6E7;O00233;Q08209;Q13127}  
12724 Pathogen[ Q85601] interacts with 6 human partners:{Q13127;Q9Y6E7;Q08209;O00233;P36956;Q16836}  
12725 Pathogen[ P14079] interacts with 5 human partners:{O00233;Q13127;P36956;Q08209;Q16836}  
12726 Pathogen[ P03383] interacts with 4 human partners:{O00233;Q16836;Q9Y6E7;Q13127}  
12727 Pathogen[ P03410] interacts with 5 human partners:{P36956;Q08209;O00233;Q13127;Q16836}  
12728 Pathogen[ P14075] interacts with 4 human partners:{O00233;Q9Y6E7;Q16836;Q13127}  
12729 Pathogen[ POC206] interacts with 6 human partners:{Q13127;Q16836;P36956;Q08209;O00233;Q9Y6E7}

12730 Pathogen[ P03363] interacts with 3 human partners:{Q9Y6E7;Q16836;Q13127}

12731 [Cluster 1158]GO:0032981+P biological\_process [name] mitochondrial respiratory chain complex I assembly [def] "The aggregation, arrangement and bonding together of a set of components to form mitochondrial respiratory chain complex I." [GOC

12732 Pathogen[ Q2Q067] interacts with 7 human partners:{Q43920;Q9P032;Q330K2;Q9BU61;O75251;Q7L592;O95831}

12733 Pathogen[ P0C214] interacts with 6 human partners:{Q9BU61;O43920;Q7L592;O75251;Q9P032;Q330K2}

12734 Pathogen[ P03346] interacts with 7 human partners:{Q9BU61;Q9P032;O43920;Q7L592;O95831;O75251;Q330K2}

12735 Pathogen[ Q85601] interacts with 5 human partners:{O95831;Q330K2;O43920;Q9BU61;Q9P032}

12736 Pathogen[ P14079] interacts with 9 human partners:{O43181;Q7L592;Q330K2;Q15070;O95831;O75251;Q9P032;O43920;Q9BU61}

12737 Pathogen[ P03383] interacts with 7 human partners:{Q330K2;O75251;Q9BU61;Q7L592;O43920;O95831;Q9P032}

12738 Pathogen[ P03410] interacts with 10 human partners:{Q7L592;O75251;O43920;Q9BU61;O95831;Q330K2;O43181;Q15070;Q9P032;Q16635}

12739 Pathogen[ P14075] interacts with 8 human partners:{Q7L592;Q15070;O43920;Q9BU61;O95831;Q330K2;O75251;Q9P032}

12740 Pathogen[ P0C206] interacts with 8 human partners:{Q9P032;O75251;O43920;Q9BU61;Q330K2;Q15070;O95831;Q7L592}

12741 Pathogen[ P03363] interacts with 5 human partners:{Q330K2;Q7L592;Q9P032;Q9BU61;O95831}

12742 [Cluster 1159]GO:0001818+P biological\_process [name] negative regulation of cytokine production [def] "Any process that stops, prevents, or reduces the rate of production of a cytokine." [GOC

12743 Pathogen[ Q2Q067] interacts with 3 human partners:{O75582;Q9UN36;P19838}

12744 Pathogen[ P0C214] interacts with 3 human partners:{P19838;O75582;Q9UN36}

12745 Pathogen[ P03346] interacts with 3 human partners:{O75582;P19838;Q9UN36}

12746 Pathogen[ Q85601] interacts with 3 human partners:{Q9UN36;O75582;P19838}

12747 Pathogen[ P14079] interacts with 2 human partners:{O75582;Q9UN36}

12748 Pathogen[ P03383] interacts with 3 human partners:{O75582;Q9UN36;P19838}

12749 Pathogen[ P03410] interacts with 3 human partners:{P19838;O75582;Q9UN36}

12750 Pathogen[ P14075] interacts with 3 human partners:{O75582;Q9UN36;P19838}

12751 Pathogen[ P0C206] interacts with 3 human partners:{O75582;P19838;Q9UN36}

12752 Pathogen[ P03363] interacts with 2 human partners:{Q9UN36;P19838}

12753 [Cluster 1160]GO:0006884+P biological\_process [name] cell volume homeostasis [def] "Any process involved in maintaining the steady state of a cell's volume. The cell's volume refers to the three-dimensional space occupied by a cell." [GOC

12754 Pathogen[ Q2Q067] interacts with 2 human partners:{P54105;Q16254}

12755 Pathogen[ P0C214] interacts with 1 human partners:{Q16254}

12756 Pathogen[ P03346] interacts with 2 human partners:{P54105;Q16254}

12757 Pathogen[ Q85601] interacts with 2 human partners:{P54105;Q16254}

12758 Pathogen[ P14079] interacts with 3 human partners:{Q16254;P35611;P54105}

12759 Pathogen[ P03383] interacts with 2 human partners:{P54105;Q16254}

12760 Pathogen[ P03410] interacts with 3 human partners:{P54105;Q16254;P35611}

12761 Pathogen[ P14075] interacts with 2 human partners:{P54105;Q16254}

12762 Pathogen[ P0C206] interacts with 2 human partners:{P54105;Q16254}

12763 Pathogen[ P03363] interacts with 2 human partners:{Q16254;P54105}

12764 [Cluster 1161]GO:0001502+P biological\_process [name] cartilage condensation [def] "The condensation of mesenchymal cells that have been committed to differentiate into chondrocytes." [ISBN

12765 Pathogen[ Q2Q067] interacts with 5 human partners:{P10827;P04198;P13349;Q15699;Q9UMQ3}

12766 Pathogen[ P0C214] interacts with 4 human partners:{P13349;Q9UMQ3;Q15699;P04198}

12767 Pathogen[ P03346] interacts with 6 human partners:{P10827;P13349;A6NJTO;Q15699;P04198;Q9UMQ3}

12768 Pathogen[ Q85601] interacts with 5 human partners:{P13349;Q9UMQ3;Q15699;P10827;P04198}

12769 Pathogen[ P14079] interacts with 5 human partners:{P13349;Q15699;P10827;P04198;Q9UMQ3}

12770 Pathogen[ P03383] interacts with 3 human partners:{Q9UMQ3;P04198;Q15699}

12771 Pathogen[ P03410] interacts with 4 human partners:{Q9UMQ3;Q15699;P13349;P04198}

12772 Pathogen[ P14075] interacts with 3 human partners:{P04198;Q9UMQ3;Q15699}

12773 Pathogen[ P0C206] interacts with 5 human partners:{Q9UMQ3;Q15699;P13349;P04198;P10827}

12774 Pathogen[ P03363] interacts with 5 human partners:{Q15699;P04198;P13349;A6NJTO;Q9UMQ3}

12775 [Cluster 1162]GO:0046386+P biological\_process [name] deoxyribose phosphate catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of deoxyribose phosphate, the phosphorylated sugar 2-deoxy-erythro-pentose." [ISBN

12776 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96G03}

12777 Pathogen[ P0C214] interacts with 2 human partners:{Q9Y315;Q96G03}

12778 Pathogen[ P03346] interacts with 1 human partners:{Q96G03}

12779 Pathogen[ Q85601] interacts with 1 human partners:{Q96G03}

12780 Pathogen[ P14079] interacts with 2 human partners:{Q9Y315;Q96G03}  
12781 Pathogen[ P03383] interacts with 1 human partners:{Q96G03}  
12782 Pathogen[ P03410] interacts with 2 human partners:{Q9Y315;Q96G03}  
12783 Pathogen[ P14075] interacts with 2 human partners:{Q96G03;Q9Y315}  
12784 Pathogen[ P0C206] interacts with 2 human partners:{Q96G03;Q9Y315}  
12785 Pathogen[ P03363] interacts with 2 human partners:{Q9Y315;Q96G03}  
12786 [Cluster 1163]GO:000278+P biological\_process [name] mitotic cell cycle [def]  
"Progression through the phases of the mitotic cell cycle, the most common eukaryotic cell cycle, which canonically comprises four successive phases called G1, S, G2, and M and includes replication of the genome and the subsequent segregation of chromosomes into daughter cells. In some variant cell cycles nuclear replication or nuclear division may not be followed by cell division, or G1 and G2 phases may be absent." [GOC  
12787 Pathogen[ Q2Q067] interacts with 248 human partners:{P49454;P30153;Q15054;Q96EE3;Q99460;O75832;P48556;Q96H22;P52948;Q71F23;P40306;Q14008;P42773;Q12769;P55036;P24385;Q9Y266;Q96RT8;Q9P209;Q14980;P06400;O00231;O00233;Q9UJX3;Q9UJX5;P27694;P49792;Q01094;O95684;Q08999;Q13352;P62258;Q7Z460;P51665;P55735;O95997;Q6IPU0;Q99741;Q96GY3;P28072;P61024;O43805;Q14204;O00762;Q6P1K2;Q9HBM1;Q9H211;O75935;Q7Z7A1;Q5EE01;Q8WYP5;P61981;Q9H3R5;Q8NHV4;Q13547;P63167;A5LHX3;Q5TKA1;Q5FB7;P35244;P49450;Q13257;Q86XR8;Q8N2Z9;Q9UBU7;P07900;Q9NQX1;Q9HC77;Q9UPV0;Q03188;Q9NVX0;Q9NXR1;Q6MZF7;Q13200;A8K8P3;P25787;Q53HL2;Q06323;Q96SN8;O43684;Q8NBT2;P49005;Q13415;Q9P258;Q9NYG5;Q8NFH4;Q13156;P30304;Q9H1A4;P51965;Q5BJF6;Q5JTW2;P11388;P28065;Q09028;O14818;P14635;Q9Y248;Q8TEP8;Q9NQS7;Q14203;Q9UJX2;P12004;Q14181;Q9Y297;Q14691;O43264;Q9Y5P8;O14980;P30307;Q14186;Q92674;Q9UM13;Q14997;Q9BYV8;Q9BW27;Q96BT3;Q8NHQ1;P51948;Q13561;P31350;Q66GS9;P60900;Q9UL46;Q9BZD4;P61289;O43303;Q9UBD5;Q96RT7;Q9NSP4;P15927;O00716;Q12834;P36873;P51668;P50748;P28062;Q96EP1;O75496;P56282;P24864;O95067;Q9BSJ2;Q9UNM6;P25788;Q9HCU8;O75419;Q13616;Q96MT8;Q16254;Q92530;O15078;P50613;Q15329;P25786;P78396;Q9H410;Q8NFH3;Q99996;Q8NHZ8;P38936;P20248;Q02241;O60216;P39748;O75665;O96020;Q16401;O00139;Q99496;O94986;O75122;O00232;Q13309;P28749;Q8NG31;Q9UM11;Q7L590;P23258;Q9UJX4;O43913;P28074;P25789;Q9Y6D9;Q9UKT4;P0CG47;P57740;Q96BD8;P04818;Q9H900;Q9Y5N6;Q13416;P10244;P41208;Q96IY1;Q14209;P20618;P42771;Q86SQ7;P0CG48;P25205;P35251;Q86YI8;Q13409;P28070;Q8WUM0;P28066;Q9UGJ1;O95613;Q14683;Q8WVM7;P30305;Q99436;P24941;Q8TAA3;Q9BU64;Q9BRT9;P42677;Q9UJX6;O95229;P62987;O43242;Q14188;O14777;Q562F6;P30260;P49721;Q9BPU9;P11802;P46527;P49720;Q8N3U4;Q13042;Q15691;Q9H081;Q8WVK7;Q15154;O15392;P63208;Q96EA4;P42772;Q52LA3;Q9BV73;P51946;Q96CW5;Q00534;Q8TAP6;P62979}  
12788 Pathogen[ P0C214] interacts with 250 human partners:{Q9UJX6;Q14997;Q9H081;O15078;P51665;O43684;P55735;P20248;P51946;Q13257;O75935;Q16254;P25789;O43805;P55036;P30307;Q9BSJ2;Q15154;P04818;Q96BT3;Q13156;P31350;P28062;Q14008;O94986;A5LHX3;Q13547;O00762;Q53HL2;O43264;P28065;O95684;Q08999;P30153;Q02241;O43913;Q14203;Q9P209;Q8NHQ1;Q7L590;P50613;Q13309;O14818;Q96EA4;O75496;Q96SN8;P57740;Q5EE01;P11802;A8K8P3;O43242;Q8WYP5;P50748;Q9UJX5;Q8NHV4;P61024;Q7Z7A1;P63208;Q9BYV8;P46527;O95229;P23258;Q9HC77;Q5JTW2;Q96EE3;P48556;Q96MT8;Q14204;P49792;P40306;Q6IPU0;P35251;P14635;O00716;Q8NBT2;P24385;O00139;P49005;Q96CW5;Q9UBU7;Q15691;Q13200;Q9UJX2;Q9Y297;Q6P1K2;P46060;Q562F6;Q9Y266;Q9HCU8;P38936;O00232;Q9Y5N6;P51965;Q9Y248;Q96RT7;Q9UGJ1;P25205;Q09028;P10244;P49450;Q14980;Q8TEP8;Q9UPV0;Q8N2Z9;Q03188;O43303;Q99460;P28066;Q01094;O75832;P00374;O75122;Q14566;Q92674;Q00534;Q14186;O14980;Q9H1A4;Q9BW27;P51948;Q96BD8;Q66GS9;P49720;P28074;Q9HBM1;Q9BPU9;P0CG48;Q9UL46;Q9P258;Q86XR8;P78396;Q6MZF7;Q8NHZ8;Q12834;Q13352;Q14691;Q15329;O95067;P15927;P25788;P24941;Q9BQQ3;Q9UNM6;Q8NFH3;O00231;P42771;P35244;Q06323;P11388;P30305;P25786;Q8TAP6;Q96RT8;Q9H211;Q13616;Q86YI8;P28072;P41208;Q8TAA3;Q99496;P62987;Q9H410;P42773;O75665;O15392;Q9H3R5;P42677;P28749;Q14683;O75419;Q8N3U4;Q99436;Q8WVM7;Q8NG31;P24864;Q9UJX4;Q9NQX1;Q7Z460;Q9BV73;P39748;P61981;P0CG47;P25787;P36873;Q9H900;Q5FBB7;Q15054;Q13416;Q9NQS7;Q9UJX3;Q5BJF6;Q9NSP4;Q86SQ7;O95997;P27694;Q71F23;Q52LA3;Q5TKA1;P35998;P60900;Q9Y5P8;O95613;Q9996;Q8NFH4;O00233;Q9UM11;Q13409;P51668;Q8N0S6;Q9NXR1;Q96IY1;P62979;P30260;P49454;Q9NVX0;P30304;P56282;Q13561;Q92530;Q9NYG5;O15008;Q14209;O60216;Q9UBD5;Q9UM13;Q9BZD4;Q8WUM0;Q14188;P28070;P06400;Q9UKT4;Q9Y6D9;P52948;P42772;Q9BU64;Q12769;P49721;Q96EP1;Q99741;Q16401;Q8WVK7;O96020;P63167;P17980;Q13415;Q14181;Q13042;O14777;Q9BRT9}  
12789 Pathogen[ P03346] interacts with 263 human partners:{P10244;Q9Y6D9;P25787;Q8N2Z9;P12004;Q96GY3;P55735;Q7Z7A1;Q5FBB7;P28070;P78396;Q8NFH4;Q8WUM0;Q9NQX1;P25789;P55036;O95229;P55273;P24385;Q7L2Z9;Q9HCU8;P07900;Q86XR8;Q12769;Q5JTW2;O15392;O43684;O95684;Q08999;Q99460;Q9UM11;Q96EE3;Q8N3U4;Q13616;Q9BS16;Q9UL46;P23258;Q96RT8;P11388;Q15329;Q9BPU9;P62987;P27694;P28072;Q92674;P06400;P25788;Q9Y5N6;Q14691;P28074;Q14188;P49721;Q15154;O75935;O00139;P57740;Q15691;O96020;Q5EE01;Q9UBD5;P35244;O14818;Q8WYP5;Q9BRT9;P35250;P62258;Q8NHV4;Q99436;P24941;P30304;Q13156;P42772;Q6MZF7;P56282;P0CG48;Q16401;A5LHX3;Q9HC77;O43264;Q9UBU7;Q9NXR1;P24864;Q53HL2;Q9P209;Q9UM13;P28062;Q14209;Q96IY1;Q9NYG5;P49005;Q9P258;Q14204;Q14203;Q16254;Q96CW5;P61024;P20618;Q8NFH3;P42771;O95067;O00232;Q01094;P51668;O95997;O43805;Q12834;P30305;Q14980;Q8TEP8;P11802;P30153;Q9Y5P8;O75832;O00233;Q9UJX6;Q14566;P25205;Q9Y266;P41208;Q14186;O14777;Q9BW27;O14980;Q9NVX0;P31350;Q66GS9;O75665;Q96EA4;P14635;Q86SQ7;Q13042;O94986;Q13309;P46060;Q9UJX5;Q96SN8;P49720;P28065;Q14683;Q9Y248;P36873;Q13547;Q09028;O00762;Q14008;Q9UJX2;P51946;P60900;Q9UGJ1;P20248;P33992;Q9NQS7;P25786;Q8TAP6;O00231;Q13415;Q9UKT4;Q562F6;P15927;Q9H081;Q8NBT2;Q9HBM1;Q9UJX3;Q5BJF6;P35249;Q8NHZ8;P63208;Q99496;P61289;Q9H410;Q14181;P42773;P30622;O75122;Q9H1A4;Q9BU64;P62979;P28066;Q9UNM6;P61981;Q9BQQ3;Q02241;Q9BYV8;Q8WVM7;P33991;Q03188;P28749;Q9UJX4;P42677;Q9Y216;P50748;Q8TAA3;P49450;P0CG47;Q99996;Q13409;Q8NHQ1;Q13416;Q14997;Q13200;P48556;P63167;Q86YI8;O00534;P35251;Q9BSJ2;Q7Z460;Q6IPU0;P51665;P38936;O95613;Q8NG31;O15078;Q96RT7;P39748;Q8N0S6;Q06323;P30260;O75419;P46527;Q9H3R5;Q9Y297;A8K8P3;P40937;Q997

- 41;Q7L590;Q92530;Q9H211;Q9NSP4;Q96H22;O43929;Q6P1K2;O60216;Q96BD8;P51948;O14965;Q9BZD4;O43242;O00716;Q96BT3;Q52LA3;O43913;Q71F23;Q13352;P40306;Q15054;Q8WVK7;Q13257;P30307;P49454;O43303;Q96EP1;O75496;Q9H900;P49792;Q9UPV0;Q96MT8;Q13561;O00444;P52948;Q9BV73}
- 12790 Pathogen[ Q85601] interacts with 249 human partners: {Q9UJX2;Q8NHQ1;Q8NBT2;P51946;P28066;P61163;Q9UNM6;P60900;P61981;P49454;O75496;Q52LA3;O43913;Q13409;Q13309;P55036;O95229;Q7L590;Q9UJX6;P55273;P24385;Q02241;Q8NFH4;O94986;Q8NFH3;Q15154;Q03188;Q9H900;O95684;Q08999;Q14008;P25787;P46060;Q96EE3;Q9BQQ3;Q9NQS7;Q96RT8;P61289;Q15329;Q12769;P56282;Q9H081;P06400;P25788;Q9P258;Q96SN8;Q96BT3;O75935;Q9UKT4;P57740;Q5EE01;P35244;Q9NVX0;Q8NHZ8;Q8WYP5;O75832;Q8NHV4;P30622;P42772;Q13415;Q9H1A4;Q9Y5N6;Q8WUM0;Q71F23;Q9HC77;Q13616;O43264;Q14204;Q14188;Q53HL2;Q9P209;P30153;Q8NG31;Q9UBU7;O15078;Q9Y248;Q9UBD5;O15392;P0CG48;P49005;P30304;Q5BJF6;Q9Y2I6;Q9H3R5;Q14203;Q96CW5;P51948;P61024;Q96EA4;O60216;Q8WVM7;O43303;Q15054;P51668;P31350;P27694;Q12834;Q5JTW2;Q8TEP8;P11802;Q13257;P23258;Q92674;P25789;O00233;O75122;Q14566;O96020;P30305;O14965;Q9BRT9;Q9Y266;Q9UPV0;Q14186;Q86XR8;P20618;Q9BSJ2;Q9BW27;Q13352;Q9NXX1;Q66GS9;P30307;Q86SQ7;O75665;P63208;P25205;P40306;Q562F6;Q9UGJ1;P14635;P15927;Q13042;Q9UJX5;Q9BV73;P51965;Q9BU64;P62258;P49720;Q14683;Q9BZD4;P36873;Q9UM13;P28062;Q15691;P49721;Q96MT8;Q96BD8;Q9Y6D9;Q9NYG5;P55735;P52948;P20248;P35251;P25786;Q9BYV8;P11388;Q7Z7A1;P49450;Q14691;P78396;P10244;P42771;O00762;Q86YI8;P28072;Q16254;Q8N2Z9;Q9UJX3;Q13200;Q14209;P50613;Q99496;P28065;P07900;Q9H410;Q14181;P42773;Q09028;O14980;P62979;Q99436;P28070;P28749;Q9HCU8;Q8N3U4;Q14980;Q9UJX4;P42677;Q9UM11;P50748;Q8TAP6;Q8TAA3;Q9UL46;Q8WVK7;Q99460;Q96IY1;O00231;P0CG47;Q99996;Q9BPU9;Q5TKA1;Q13416;Q13156;P48556;Q7Z460;P12004;Q13547;P28074;P49792;Q92530;P38936;P62987;P33992;O95613;Q00534;O95067;Q96EP1;A5LHX3;P39748;Q9NXR1;Q06323;P30260;O75419;A8K8P3;Q99741;Q9H211;O14818;Q6P1K2;Q9GZM8;P24941;O14777;O00716;O43684;P63167;O00139;Q9HBM1;Q16401;Q01094;Q5FB7;P51955;O43805;O95997;Q6MZP7;Q9Y5P8;Q96RT7;P46527;Q13561;P24864;P41208}
- 12791 Pathogen[ P14079] interacts with 258 human partners: {Q15691;Q14980;P28065;Q99436;P00374;Q9NXX1;P11388;Q96IY1;Q03188;P62333;Q9BW27;Q13416;Q9BRT9;P48556;P51965;Q7L590;Q5EE01;P0CG48;O75419;P30307;Q14566;Q99996;Q9UKT4;Q8TEP8;P28749;Q7Z460;Q96BT3;Q14186;P51946;Q13415;Q9HBM1;O95684;Q9P209;Q13309;Q8N0S6;P78396;Q9Y5N6;P24864;P10244;P36873;Q52LA3;P57740;P40306;P40937;P40306;Q16254;O95229;Q8NBT2;Q9UJX3;P55036;O94986;P28074;O00232;Q9H1A4;Q9UGJ1;Q02241;Q9UJX5;P49005;Q9NVX0;Q14204;Q15329;Q5JTW2;O43913;Q14691;Q9BZD4;Q9H211;Q66GS9;O15392;P49720;O00487;P25787;O60216;Q14209;O75832;Q9Y266;P46060;O95067;Q9BV73;Q9HCU8;Q8NG31;A5LHX3;Q6IPU0;P62979;Q9H900;A8K8P3;O00233;Q8TAP6;P31350;P35998;Q13156;P61289;P30304;P62987;Q5FB7;Q9H410;P55273;P51665;P20618;Q9NYG5;Q8TAA3;Q99741;Q8N3U4;P50613;Q9NSP4;Q15054;P61981;Q99661;Q5BJF6;P35250;Q71F23;Q8WUM0;Q6MZP7;Q14997;Q99496;P51668;P14635;Q8NHZ8;P51955;Q8NHV4;P28062;P60900;Q8WYP5;Q9UBD5;O00716;Q9UM11;P38936;Q9UM13;Q96RT8;Q13042;O00139;Q9UNM6;P56282;Q8N2Z9;Q13257;Q96EA4;P35251;Q562F6;Q8WVK7;P49450;P23258;Q99460;Q96H22;Q96RT7;Q8NFH3;P07900;Q96EE3;O14818;Q9BPU9;Q9P258;Q9Y248;Q13409;Q13561;P49721;Q8TCU4;O43264;Q92530;Q9BQQ3;P49642;Q9BSJ2;P62258;O43303;Q86YI8;Q14181;O43929;Q9H3R5;P61163;Q9GZM8;O95997;Q9UJX6;P33992;Q53HL2;Q86Y91;Q86SQ7;P41208;P42677;P20248;Q8NFH4;Q9NQS7;P15927;P30260;Q06323;O95613;P27694;P63167;P62191;O15078;Q92674;P46527;P55735;Q9UQE7;P49454;P12004;O00762;P30305;Q8NHQ1;Q9BU64;Q15008;P42773;O75665;P30153;P43686;O43242;P25788;Q15154;P63208;O00231;Q13616;P28066;Q9Y5P8;Q86XR8;Q9UL46;Q9NXR1;P50748;Q96020;Q12769;O95235;Q09028;Q9Y2I6;P35244;Q96BD8;O75122;Q14683;P0CG47;O14965;Q5TKA1;Q96GY3;Q01094;Q13352;O75935;Q7L2Z9;Q9HC77;P04818;Q14188;Q96SN8;P25205;Q16401;Q9UJX4;Q9BYV8;P17980;O75496;O14777;Q14203;O43684;P28072;Q9UBU7;O43805;Q7Z7A1;P30622;P39748;Q6P1K2;Q96CW5;P52948;Q9UPV0;Q08999;Q9H081;P42771;Q14008;P61024;P51948}
- 12792 Pathogen[ P03383] interacts with 220 human partners: {Q7Z7A1;Q14683;Q96EE3;Q13257;Q15329;P10244;P30307;Q8WUM0;Q8NHZ8;Q9NQS7;Q09028;Q13616;Q03188;P49454;Q86XR8;Q9UBD5;P49792;Q8N2Z9;Q8NFH4;Q7Z460;P55036;P61024;Q6IPU0;Q9BSJ2;O00716;Q14209;Q96BD8;Q9HCU8;Q02241;Q8NBT2;Q8N3U4;O94986;P62987;Q14008;Q9H900;Q15691;P51948;Q9NYG5;P55735;O95684;O08999;P51965;Q9UJX6;P25789;P60900;Q01094;Q9NVX0;O43264;Q5FB7;Q7L590;Q96GY3;Q14181;P52948;P27694;Q9P258;Q14203;Q96SN8;P40306;P57740;Q5EE01;O00233;Q96CW5;O43303;P25205;Q8WYP5;P41208;Q8NHV4;P30304;Q9BV73;Q6MZP7;P42677;Q9HC77;O00762;P49721;Q06323;Q5TKA1;P24385;Q9UKT4;P30153;Q96H22;Q14997;Q9H1A4;P63208;P49005;P07900;Q13352;Q00534;Q96EA4;P20618;O60216;Q13042;Q9Y248;Q9NXX1;P14635;Q96MT8;P11802;P06400;P31350;Q96BT3;P78396;Q12769;P36873;A8K8P3;O43913;Q8TEP8;Q71F23;Q12834;Q9Y5P8;P56282;O75832;Q14186;Q53HL2;P15927;O95229;Q9BW27;Q9BU64;Q66GS9;Q86SQ7;P50613;P42772;Q9UM13;Q9Y5N6;P51946;P46527;O14980;O43684;O15078;P24941;Q9BZD4;Q9UM11;Q16254;Q9UL46;Q9UNM6;Q15154;O95067;P35244;Q8WVK7;P25786;Q99460;Q9BRT9;Q9BYV8;O96020;Q52LA3;Q562F6;O75935;Q86YI8;P28072;Q9HBM1;Q13200;Q15054;Q5BJF6;Q9Y266;Q99496;P28065;Q9H410;P42771;P28066;Q13547;O14965;Q9H081;P28749;Q96IY1;Q14980;O75419;Q9UJX4;Q14188;Q9UPV0;Q16401;Q8TAP6;P62979;Q8NG31;O00231;P61981;P0CG47;Q9P209;Q13416;Q6P1K2;Q9UJX5;Q13309;O95997;Q99996;P0CG48;Q14691;P28074;Q92530;P49720;Q8TAA3;O95613;Q13561;P61289;O14777;Q13156;Q96EP1;Q9UJX2;P28062;P24864;P30260;Q92674;P48556;Q9H3R5;P63167;O14818;Q9UJX3;O75665;P62258;Q99436;Q9H211;P20248;P28070;Q8NFH3;Q8NHQ1;P51668;O75496;Q99741;P25787;Q9Y6D9;P35251;P25788;P50748;Q8WVM7}
- 12793 Pathogen[ P03410] interacts with 264 human partners: {Q03188;Q9UKT4;O95684;P62258;O75665;Q7Z460;Q86Y91;Q14204;O15392;P42771;P28070;Q9BW27;P46527;P35244;P25205;P55036;O43929;P31350;P0CG48;Q52LA3;Q9NSP4;Q9H3R5;Q8N0S6;Q99496;O43684;Q96H22;Q15329;Q13409;P30622;Q8TEP8;Q9BQQ3;Q13561;Q9H1A4;Q9Y2I6;O00139;O43303;Q14181;Q00534;P25786;Q13416;Q66GS9;P42772;Q9NXR1;Q15008;Q9HC77;Q9H410;Q16401;Q99996;Q8NG31;Q9GZM8;Q15154;Q53HL2;Q8NFH4;Q6IPU0;P60900;O75419;O96020;Q14997;Q9UJX6;Q7Z7A1;Q96BT3;P35998;P51965;Q99460;P00374;Q9UJX4;Q9NYG5;P52948;O00233;Q14008;Q96S

N8;P51946;Q16254;Q9UM13;O00232;P55273;P50748;Q8NHZ8;O95067;Q8TAA3;Q8TCU4;P48556;Q562  
F6;P63167;Q9P209;P49721;Q92674;P07900;Q08999;Q9H211;Q5TKA1;P39748;P06400;P56282;O959  
97;A5LHX3;P62979;Q9BYV8;Q14188;Q9BRT9;O60216;P50613;P61163;Q99436;Q5EE01;P33992;O432  
64;P49454;P78396;Q14965;Q96EA4;P40306;P61981;O43805;Q06323;Q8NHV4;O00716;P24385;Q96I  
Y1;P63208;P35251;Q13200;O94986;P10244;P25787;Q14980;Q09028;Q8TAP6;P14635;Q9UM11;P389  
36;Q15691;Q13042;Q96GY3;Q13309;Q9BPU9;P04818;P30304;P24941;P11802;Q6P1K2;Q9NVX0;Q9UB  
U7;P28062;Q71F23;P51665;Q14683;Q13156;O15078;Q14186;Q9BZD4;Q8WVK7;Q15054;O14818;P368  
73;Q9HBM1;Q86SQ7;Q96EE3;P51668;Q9UJX5;Q5BJF6;O75935;Q8N3U4;Q9BSJ2;Q7L590;P20248;O002  
31;Q9UNM6;Q12834;Q8NBT2;P30260;P11388;P51948;P49450;P28749;P25789;Q5FBB7;P49720;Q136  
16;P30153;Q9UJX3;Q9Y248;Q96RT8;P23258;P62987;Q13547;O00762;O75496;Q8WUM0;Q01094;P610  
24;Q9UPV0;Q8WVM7;Q6MZP7;P49005;P27694;Q9H900;Q9Y266;P28072;O95229;Q9H081;P15927;Q146  
91;P35250;Q96CW5;Q96BD8;Q14209;Q9Y5N6;P57740;P55735;P30305;P25788;Q96RT7;Q12769;O956  
13;O43913;P40937;Q14566;Q9P258;P41208;Q9NQX1;P28066;P24864;P12004;Q8WYP5;O75122;Q8NF  
H3;Q9UBD5;P42773;Q9BV73;P28065;O43242;P30307;Q9UJX6;Q96EP1;P0CG47;Q9UGJ1;Q13352;Q5JT  
W2;P46060;A8K8P3;P17980;Q7L2Z9;O75832;O14980;P20618;P49642;Q9HCU8;Q9Y5P8;O14777;Q142  
03;P49792;Q9UL46;Q02241;Q9BU64;P28074;Q8N2Z9;P61289;Q13257;Q9NQS7;Q13415;P42677;Q997  
41;Q86YI8}

12794 Pathogen[ P14075] interacts with 221 human

partners: {Q96MT8;Q9Y5P8;Q6IPU0;O43303;Q9BYV8;P55036;P25788;P42677;Q9Y266;Q9H211;Q130  
42;P31350;P28066;O95067;P24941;Q14683;O95684;Q08999;Q9Y6D9;Q02241;P11802;Q06323;O758  
32;Q9H081;P61024;Q562F6;Q8TAA3;Q9UKT4;P60900;Q9NQS7;Q8WVM7;P14635;Q9UM11;O00233;Q926  
74;Q9UL46;Q8WVK7;P57740;Q9Y5N6;Q5EE01;P49720;Q8WYP5;Q86SQ7;P50613;Q8NHV4;Q7Z460;Q52L  
A3;Q9UBD5;Q13561;O75419;P49792;P51965;A8K8P3;Q96IY1;Q13257;Q00534;Q9HC77;P42771;P102  
44;O95997;Q96H22;O43684;Q96SN8;P49005;Q13200;P48556;O00716;Q16401;Q8NHQ1;P15927;Q96B  
D8;O96020;P28070;Q14691;Q14209;O14777;P61981;Q13547;Q9UJX2;P49721;P55735;P36873;O952  
29;Q8TEP8;Q9Y248;O00231;P46527;P78396;Q9UJX6;Q8N2Z9;Q8NHZ8;Q92530;Q9UPV0;P63208;Q5TK  
A1;P07900;Q9H3R5;Q13156;Q14186;Q09028;O14980;Q9BW27;P35244;P0CG48;Q66GS9;P62979;Q999  
96;O00762;O15078;Q9BU64;Q96EA4;O00139;Q5BJF6;Q9NQX1;P28062;Q9P258;P28074;O75935;Q9UJ  
X5;Q86XR8;Q16254;P25205;P28065;O14965;Q6MZP7;Q15691;Q9BV73;Q96EE3;P20248;P35251;P257  
86;Q8TAP6;O14818;Q15054;Q96BT3;P62987;Q13309;Q9BPU9;Q86YI8;P28072;Q5FBB7;Q01094;Q994  
96;P30304;P06400;Q9BRT9;Q9H410;O94986;O43913;P41208;P27694;P30153;P15946;Q14997;Q151  
54;P28749;Q8NFH3;Q9UJX4;Q9H900;Q53HL2;P0CG47;P42772;Q9NVX0;P25787;Q13416;P50748;Q127  
69;Q99741;O75665;Q9HBM1;P20618;Q9HCU8;Q9H1A4;Q6P1K2;P24385;Q15329;O95613;Q9P209;Q142  
03;P56282;Q13352;Q14008;Q8WUM0;Q9UNM6;O43264;Q13616;O75496;Q9UM13;Q14181;Q14980;Q031  
88;P30260;P1289;Q8NG31;Q7L590;Q9UJX3;P40306;Q14188;P51668;Q9NYG5;P49454;Q9BSJ2;Q994  
36;P30307;Q7Z7A1;Q71F23;Q8NFH4;O60216;P63167;Q8NBT2;Q9BZD4;Q12834;Q96CW5;Q96GY3;Q96E  
P1;P52948;P51948;P62258;Q8N3U4;P25789;P24864}

12795 Pathogen[ P0C206] interacts with 263 human

partners: {Q9BPU9;P61289;Q5JTW2;Q96EE3;Q9HBM1;Q9NQX1;Q99436;P28062;O60216;Q9UNM6;Q86X  
R8;Q14188;P0CG48;Q8WYP5;Q15329;O94986;O75832;Q6IPU0;P61024;Q9NSP4;Q96SN8;P40306;O754  
96;P28065;Q9HC77;Q14997;Q86SQ7;Q14008;Q9UJX3;Q9H900;P35251;Q5BJF6;O95684;P55036;P303  
07;Q13309;P25786;P30153;Q9Y6D9;P25788;Q9Y248;Q96RT7;Q9HCU8;Q7L2Z9;O75419;Q13156;P519  
55;P25205;Q96EP1;P25787;Q9UJX5;O43913;Q8TCU4;Q9UJX2;Q96CW5;Q06323;P63167;Q15691;O959  
97;Q9H081;P49720;O14777;Q8N0S6;O00444;O00232;Q9BZD4;P20248;P60900;Q9UBD5;P42771;P557  
35;A8K8P3;Q9UPV0;Q13547;Q14186;Q13416;Q9H410;P42772;P30305;P57740;P49454;P49005;Q999  
96;Q13616;O00716;P49642;P30622;Q5TKA1;O43242;Q99741;Q13257;O96020;Q9BU64;P30260;Q022  
41;Q9GZM8;Q9BRT9;Q13409;Q16254;A5LHX3;P28749;Q9UGJ1;Q8TEP8;Q9NVX0;P61163;Q08999;P257  
89;P30291;P51965;O75122;Q86Y91;Q92674;Q8WUM0;Q8TAP6;Q9UKT4;Q5EE01;P42773;P46060;Q6P1  
K2;Q9H1A4;P49792;Q8NBT2;Q14209;Q96BD8;Q52LA3;Q9H3R5;Q14204;Q15054;Q9NYG5;P10244;Q9UJ  
X4;Q9UQE7;P06613;P49450;O95613;P62258;P20618;Q14188;P63208;Q9UBU7;Q13200;Q8TAA3;P280  
70;P07900;Q14691;Q14683;Q96IY1;Q99460;Q9H211;Q01094;Q96BT3;Q6MZP7;P61981;O15078;P629  
79;Q9Y5N6;Q66GS9;P55273;P46527;Q13352;Q5FBB7;P28066;Q9BYV8;P38936;Q9UM11;Q53HL2;O007  
62;Q9BV73;Q8NHV4;O14818;O15392;P23258;O00139;P04818;Q9P258;O75665;Q9UJX6;P0CG47;Q96H  
22;Q13561;Q8NFH4;P28072;P30304;Q86YI8;Q562F6;Q7Z7A1;P78396;P41208;P56282;Q13415;Q8N3  
U4;P28074;P27694;O95067;Q9NXR1;Q96EA4;Q90928;P11388;Q92530;P15927;Q8N2Z9;Q9P209;P497  
21;Q12769;P14635;O43684;P62987;O14965;Q9BQQ3;Q14980;P39748;O43805;P35244;Q9UM13;Q96M  
T8;Q7Z460;Q9NQS7;Q14203;O75935;Q9UL46;Q15154;Q8NFH3;P36873;Q13042;Q8NHQ1;P50748;Q71F  
23;O43264;P24864;Q9Y5P8;P24941;Q9BSJ2;P51668;Q14566;Q8WVM7;Q8NG31;Q9Y266;O00233;P118  
02;P48556;Q16401;Q12834;Q8WVK7;Q99496;Q99640;Q9BW27;Q8NHZ8;P33992;Q03188;Q96GY3;O002  
31;P51946;P42677;P31350;P51948;Q9Y2I6;P24385;O95229;Q00534;P12004;P06400;O43303;Q7L5  
90}

12796 Pathogen[ P03363] interacts with 195 human

partners: {Q5BJF6;Q9NQX1;Q9UJX2;Q9NYG5;Q96EA4;Q9Y5P8;Q9Y2I6;Q14691;Q9BZD4;Q13309;P460  
60;P62258;Q13042;P49454;Q96EP1;Q96IY1;P51965;Q6P1K2;P42677;P27694;Q7Z7A1;A8K8P3;P079  
00;Q9Y6D9;P63167;Q9HC77;Q9H081;Q9BYV8;P36873;Q52LA3;P24864;Q92674;Q8NFH4;O00762;O952  
29;Q99996;Q96MT8;Q96BD8;O15078;Q92530;Q8NHV4;O43805;Q09028;Q8WYP5;Q66GS9;P20248;Q96G  
Y3;Q13561;P25205;Q8NFH3;O43303;Q14980;Q9Y266;O14980;Q5TKA1;Q12769;Q6MZP7;Q15691;O956  
84;P51946;O43264;Q8NHQ1;Q8NBT2;O95613;O94986;Q14204;Q16254;P35251;Q8NHZ8;Q02241;Q8N2  
Z9;Q9P258;Q9UJX3;Q99496;Q53HL2;Q8WVK7;P61289;Q8TAP6;P49005;Q9H410;P24941;P50748;Q141  
81;P35244;Q9UJX5;P41208;Q9P209;P15927;P30260;P06400;P28749;Q9UJX6;Q5FBB7;Q9UM11;Q8TE  
P8;P33992;Q9UJX4;Q9H900;P30304;Q00534;Q5EE01;Q5JTW2;P61163;Q8WUM0;P30622;Q9HCU8;Q134  
16;Q13616;O43684;O95067;O96020;P42772;Q13415;Q13156;P49450;Q08999;Q01094;Q9NQS7;Q997  
41;P61024;Q96RT8;Q9NVX0;Q9BPU9;P78396;Q9NSP4;Q9H211;Q8WVM7;O75935;Q9HBM1;Q7Z460;Q9UK  
T4;P10244;Q9H1A4;P49792;Q03188;Q8NG31;P62987;Q13257;Q14209;Q13547;Q71F23;Q13409;Q9UP  
V0;P57740;P51668;P24385;O75496;Q96BT3;Q9UM13;Q96RT7;Q14186;P61981;Q14188;Q9UGJ1;Q9H3  
R5;Q15054;Q7L590;P52948;Q8N3U4;O14777;Q86XR8;O95997;Q12834;Q14008;P42773;P11802;Q562



F6;O00716;Q9NXR1;Q9Y248;P23258;O00139;Q9UBD5;P30153;P30307;Q86SQ7;Q13352;Q9Y5N6;Q9BR  
T9;Q15154;P63208;Q15329;P55735;Q14683;Q14203;Q9BSJ2;P42771;Q9BV73;Q9BW27;O75419;O602  
16;O75665;Q96CW5;Q96SN8;O43913}

12797 [Cluster 1164]GO:0006452+P biological\_process [name] translational frameshifting  
[def] "A mechanism whereby different proteins may result from a single mRNA molecule,  
due to a change in the parsing of three nucleotides per codon relative to an initiating  
AUG codon." [GOC

12798 Pathogen[ Q2Q067] interacts with 3 human partners:{P63241;Q6IS14;Q9GZV4}  
12799 Pathogen[ P0C214] interacts with 3 human partners:{Q6IS14;Q9GZV4;P63241}  
12800 Pathogen[ P03346] interacts with 3 human partners:{Q9GZV4;P63241;Q6IS14}  
12801 Pathogen[ Q85601] interacts with 3 human partners:{Q9GZV4;P63241;Q6IS14}  
12802 Pathogen[ P14079] interacts with 3 human partners:{Q6IS14;P63241;Q9GZV4}  
12803 Pathogen[ P03383] interacts with 2 human partners:{Q9GZV4;P63241}  
12804 Pathogen[ P03410] interacts with 3 human partners:{P63241;Q9GZV4;Q6IS14}  
12805 Pathogen[ P14075] interacts with 2 human partners:{Q9GZV4;P63241}  
12806 Pathogen[ P0C206] interacts with 3 human partners:{Q9GZV4;Q6IS14;P63241}  
12807 Pathogen[ P03363] interacts with 3 human partners:{Q9GZV4;P63241;Q6IS14}

12808 [Cluster 1165]GO:0071233+P biological\_process [name] cellular response to leucine  
[def] "Any process that results in a change in state or activity of a cell (in terms of  
movement, secretion, enzyme production, gene expression, etc.) as a result of a leucine  
stimulus." [GOC

12809 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8IYW8}  
12810 Pathogen[ P0C214] interacts with 2 human partners:{Q8IYW8;Q8IYW7}  
12811 Pathogen[ P03346] interacts with 1 human partners:{Q8IYW8}  
12812 Pathogen[ Q85601] interacts with 2 human partners:{Q8IYW7;Q8IYW8}  
12813 Pathogen[ P14079] interacts with 2 human partners:{Q8IYW8;Q8IYW7}  
12814 Pathogen[ P03383] interacts with 1 human partners:{Q8IYW8}  
12815 Pathogen[ P03410] interacts with 2 human partners:{Q8IYW8;Q8IYW7}  
12816 Pathogen[ P14075] interacts with 1 human partners:{Q8IYW8}  
12817 Pathogen[ P0C206] interacts with 2 human partners:{Q8IYW7;Q8IYW8}  
12818 Pathogen[ P03363] interacts with 1 human partners:{Q8IYW8}

12819 [Cluster 1166]GO:0030516+P biological\_process [name] regulation of axon extension  
[def] "Any process that modulates the rate, direction or extent of axon extension." [GOC

12820 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NY43}  
12821 Pathogen[ P0C214] interacts with 1 human partners:{Q9NY43}  
12822 Pathogen[ P03346] interacts with 1 human partners:{Q9NY43}  
12823 Pathogen[ Q85601] interacts with 1 human partners:{Q9NY43}  
12824 Pathogen[ P14079] interacts with 1 human partners:{Q9NY43}  
12825 Pathogen[ P03383] interacts with 1 human partners:{Q9NY43}  
12826 Pathogen[ P03410] interacts with 1 human partners:{Q9NY43}  
12827 Pathogen[ P14075] interacts with 1 human partners:{Q9NY43}  
12828 Pathogen[ P0C206] interacts with 1 human partners:{Q9NY43}  
12829 Pathogen[ P03363] interacts with 1 human partners:{Q9NY43}

12830 [Cluster 1167]GO:0008645+P biological\_process [name] hexose transport [def] "The  
directed movement of hexose into, out of or within a cell, or between cells, by means of  
some agent such as a transporter or pore. Hexoses are any aldoses with a chain of six  
carbon atoms in the molecule." [GOC

12831 Pathogen[ Q2Q067] interacts with 31 human  
partners:{Q96EE3;P52948;Q12769;Q96HA1;P49790;P49792;O75694;P78406;P19367;Q99567;Q8N1  
F7;Q7Z3B4;Q8NFH4;P12270;P11166;Q9BW27;Q8TEM1;Q9BVL2;Q9UKX7;Q9NRG9;Q8NFH3;P37198;Q926  
21;O15504;P57740;Q8WUM0;P14672;P35658;Q8NFH5;Q5SRE5;Q14397}

12832 Pathogen[ P0C214] interacts with 32 human  
partners:{Q8NFH5;Q8TEM1;P78406;P57740;Q99567;Q8N1F7;O75694;Q96EE3;P49792;Q9UKX7;P111  
66;P11168;P49790;P37198;Q9BW27;Q9NRG9;P35658;P19367;Q8NFH3;Q14397;O15504;P12270;Q8NF  
H4;Q9BVL2;Q5SRE5;P14672;Q7Z3B4;Q8WUM0;P52948;Q92621;Q12769;Q96HA1}

12833 Pathogen[ P03346] interacts with 31 human  
partners:{Q8TEM1;Q8NFH4;Q8WUM0;P12270;Q12769;Q96EE3;Q99567;Q9UKX7;O75694;Q9NRG9;P784  
06;P57740;Q9BVL2;Q8N1F7;P19367;Q8NFH5;P37198;Q8NFH3;P35658;Q5SRE5;Q92621;Q9BW27;P111  
66;Q14397;P49790;Q96HA1;P14672;Q7Z3B4;O15504;P49792;P52948}

12834 Pathogen[ Q85601] interacts with 31 human  
partners:{Q8TEM1;Q5SRE5;P11168;Q8NFH4;Q8NFH3;Q96EE3;Q12769;P78406;P57740;Q9NRG9;Q8WU  
M0;Q8N1F7;P12270;O75694;O15504;Q9BW27;P11166;Q92621;P52948;Q9UKX7;Q8NFH5;P35658;Q143  
97;Q99567;P49792;Q9BVL2;Q96HA1;P14672;Q7Z3B4;P49790;P19367}

12835 Pathogen[ P14079] interacts with 29 human  
partners:{Q8NFH5;Q9BW27;Q96HA1;P57740;Q8N1F7;P35658;P14672;Q92621;Q8TEM1;P11166;Q9UK  
X7;Q9BVL2;O15504;Q8WUM0;P12270;Q99567;Q8NFH3;Q96EE3;P37198;P49790;Q8NFH4;P78406;Q7Z3  
B4;Q14397;Q12769;Q5SRE5;Q9NRG9;O75694;P52948}

12836 Pathogen[ P03383] interacts with 33 human  
partners:{Q9BVL2;Q96EE3;O15504;Q8WUM0;Q92621;P49792;Q8NFH4;P12270;P19367;P52948;P784  
06;P57740;Q8NFH5;Q8N1F7;Q8TEM1;Q12769;P11168;Q99567;Q14397;Q9BW27;Q5SRE5;P35658;Q96H  
A1;Q9NRG9;P11169;P37198;Q9UKX7;P14672;Q7Z3B4;P49790;O75694;Q8NFH3;P22732}

12837 Pathogen[ P03410] interacts with 30 human  
partners:{Q99567;Q14397;Q7Z3B4;Q9BW27;P22732;Q9UKX7;P11166;Q8NFH4;Q5SRE5;P52948;O155  
04;P11168;O75694;P78406;Q96HA1;Q8N1F7;P49790;P12270;P35658;Q8NFH5;Q8TEM1;Q96EE3;Q8WU  
M0;P57740;Q12769;Q9NRG9;Q8NFH3;Q9BVL2;Q92621;P49792}

12838 Pathogen[ P14075] interacts with 33 human

12839 partners: {P11169;P78406;P57740;P49792;Q8N1F7;P19367;P22732;Q9UKX7;P35658;P12270;Q92621;Q96HA1;Q9BW27;Q8TEM1;Q96EE3;P37198;Q5SRE5;Q14397;Q8NFH3;O15504;Q99567;Q12769;P11168;Q9BVL2;P49790;Q8WUM0;P14672;O75694;Q9NRG9;Q7Z3B4;Q8NFH4;Q8NFH5;P52948}  
Pathogen[ POC206] interacts with 30 human  
partners: {Q96EE3;Q92621;P49790;Q5SRE5;Q8NFH5;Q9NRG9;Q7Z3B4;Q96HA1;P57740;P11166;P19367;Q8WUM0;P11168;P49792;Q8TEM1;Q9UKX7;O75694;Q99567;Q8NFH4;P14672;P78406;Q14397;O15504;Q12769;Q8NFH3;Q8N1F7;P35658;Q9BW27;Q9BVL2;P12270}

12840 Pathogen[ P03363] interacts with 28 human  
partners: {Q7Z3B4;Q5SRE5;P12270;Q8NFH4;Q14397;Q8NFH3;Q12769;Q9UKX7;Q9NRG9;Q8WUM0;Q9BVL2;Q99567;Q96HA1;P49792;P35658;O75694;P49790;P57740;P14672;P78406;P52948;O15504;P37198;Q8N1F7;Q92621;Q8NFH5;P11166;Q9BW27}

12841 [Cluster 1168]GO:0048709+P biological\_process [name] oligodendrocyte differentiation [def] "The process in which a relatively unspecialized cell acquires the specialized features of an oligodendrocyte. An oligodendrocyte is a type of glial cell involved in myelinating the axons of neurons in the central nervous system." [GOC]

12842 Pathogen[ Q2Q067] interacts with 5 human  
partners: {P42773;Q9UMX3;P35712;P56693;P35711}

12843 Pathogen[ POC214] interacts with 5 human  
partners: {P35711;P56693;Q9UMX3;P42773;P35712}

12844 Pathogen[ P03346] interacts with 8 human  
partners: {Q96A65;P56693;P78426;P42773;Q13516;P35712;Q9UMX3;P35711}

12845 Pathogen[ Q85601] interacts with 6 human  
partners: {Q96A65;P35712;Q9UMX3;P35711;P42773;P56693}

12846 Pathogen[ P14079] interacts with 7 human  
partners: {P35711;P35712;Q9UMX3;P56693;Q96A65;P42773;Q9Y2G1}

12847 Pathogen[ P03383] interacts with 4 human partners: {P35712;Q9UMX3;P35711;P56693}

12848 Pathogen[ P03410] interacts with 6 human  
partners: {P35712;Q9Y2G1;Q9UMX3;Q96A65;P56693;P42773}

12849 Pathogen[ P14075] interacts with 4 human partners: {Q9UMX3;P56693;P35711;P35712}

12850 Pathogen[ POC206] interacts with 6 human  
partners: {Q9UMX3;P56693;Q96A65;P42773;P35711;P35712}

12851 Pathogen[ P03363] interacts with 8 human  
partners: {P35711;Q13516;Q96A65;P56693;P35712;Q9C056;P42773;Q9UMX3}

12852 [Cluster 1169]GO:0016557+P biological\_process [name] peroxisome membrane biogenesis [def] "The process in which a peroxisome membrane is synthesized, aggregates, and bonds together." [GOC]

12853 Pathogen[ Q2Q067] interacts with 1 human partners: {P40855}

12854 Pathogen[ POC214] interacts with 1 human partners: {P40855}

12855 Pathogen[ P03346] interacts with 2 human partners: {P56589;P40855}

12856 Pathogen[ Q85601] interacts with 1 human partners: {P40855}

12857 Pathogen[ P14079] interacts with 4 human partners: {Q9Y5Y5;O75192;P40855;P56589}

12858 Pathogen[ P03383] interacts with 1 human partners: {P40855}

12859 Pathogen[ P03410] interacts with 4 human partners: {O75192;Q9Y5Y5;P40855;P56589}

12860 Pathogen[ P14075] interacts with 2 human partners: {P40855;O75192}

12861 Pathogen[ POC206] interacts with 3 human partners: {O75192;P56589;P40855}

12862 Pathogen[ P03363] interacts with 1 human partners: {P40855}

12863 [Cluster 1170]GO:0001516+P biological\_process [name] prostaglandin biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of prostaglandins, any of a group of biologically active metabolites which contain a cyclopentane ring." [GOC]

12864 Pathogen[ Q2Q067] interacts with 1 human partners: {Q15185}

12865 Pathogen[ POC214] interacts with 2 human partners: {Q8TBF2;Q15185}

12866 Pathogen[ P03346] interacts with 1 human partners: {Q15185}

12867 Pathogen[ Q85601] interacts with 1 human partners: {Q15185}

12868 Pathogen[ P14079] interacts with 2 human partners: {Q15185;Q8TBF2}

12869 Pathogen[ P03383] interacts with 1 human partners: {Q15185}

12870 Pathogen[ P03410] interacts with 2 human partners: {Q15185;Q8TBF2}

12871 Pathogen[ P14075] interacts with 1 human partners: {Q15185}

12872 Pathogen[ POC206] interacts with 2 human partners: {Q15185;Q8TBF2}

12873 Pathogen[ P03363] interacts with 1 human partners: {Q15185}

12874 [Cluster 1171]GO:0070848+P biological\_process [name] response to growth factor stimulus [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a growth factor stimulus." [GOC]

12875 Pathogen[ Q2Q067] interacts with 3 human partners: {P01106;P12757;P27986}

12876 Pathogen[ POC214] interacts with 3 human partners: {P12757;P27986;P01106}

12877 Pathogen[ P03346] interacts with 3 human partners: {P12757;P01106;P27986}

12878 Pathogen[ Q85601] interacts with 3 human partners: {P01106;P12757;P27986}

12879 Pathogen[ P14079] interacts with 3 human partners: {P11686;P01106;P12757}

12880 Pathogen[ P03383] interacts with 3 human partners: {P27986;P01106;P12757}

12881 Pathogen[ P03410] interacts with 4 human partners: {P27986;P01106;P11686;P12757}

12882 Pathogen[ P14075] interacts with 3 human partners: {P01106;P12757;P27986}

12883 Pathogen[ POC206] interacts with 3 human partners: {P27986;P12757;P01106}

12884 Pathogen[ P03363] interacts with 3 human partners: {P12757;P01106;P27986}

12885 [Cluster 1172]GO:0000492+P biological\_process [name] box C/D snoRNP assembly [def] "The aggregation, arrangement and bonding together of proteins and a box C/D snoRNA to

form a box C/D small nucleolar ribonucleoprotein (snoRNP) complex." [GOC

12886 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9NWK9;Q9UHK0}

12887 Pathogen[ POC214] interacts with 3 human partners:{Q9NWK9;Q9UHK0;Q9NWS0}

12888 Pathogen[ P03346] interacts with 2 human partners:{Q9NWK9;Q9UHK0}

12889 Pathogen[ Q85601] interacts with 2 human partners:{Q9NWK9;Q9UHK0}

12890 Pathogen[ P14079] interacts with 3 human partners:{Q9UHK0;Q9NWS0;Q9NWK9}

12891 Pathogen[ P03383] interacts with 2 human partners:{Q9NWK9;Q9UHK0}

12892 Pathogen[ P03410] interacts with 3 human partners:{Q9UHK0;Q9NWS0;Q9NWK9}

12893 Pathogen[ P14075] interacts with 2 human partners:{Q9UHK0;Q9NWK9}

12894 Pathogen[ POC206] interacts with 3 human partners:{Q9NWK9;Q9UHK0;Q9NWS0}

12895 Pathogen[ P03363] interacts with 2 human partners:{Q9UHK0;Q9NWK9}

12896 [Cluster 1173]GO:0045429+P biological\_process [name] positive regulation of nitric oxide biosynthetic process [def] "Any process that activates or increases the frequency, rate or extent of the chemical reactions and pathways resulting in the formation of nitric oxide." [GOC

12897 Pathogen[ Q2Q067] interacts with 6 human partners:{P31749;Q8IUC6;P08238;P07900;P68871;O95865}

12898 Pathogen[ POC214] interacts with 4 human partners:{Q8IUC6;P68871;O95865;P31749}

12899 Pathogen[ P03346] interacts with 6 human partners:{P07900;P31749;O95865;P68871;Q8IUC6;P08238}

12900 Pathogen[ Q85601] interacts with 6 human partners:{P31749;Q8IUC6;P08238;P07900;P68871;O95865}

12901 Pathogen[ P14079] interacts with 6 human partners:{P31751;Q8IUC6;P68871;P08238;P07900;O95865}

12902 Pathogen[ P03383] interacts with 6 human partners:{O95865;Q8IUC6;P31749;P68871;P07900;P08238}

12903 Pathogen[ P03410] interacts with 6 human partners:{P08238;O95865;P31749;P07900;P68871;Q8IUC6}

12904 Pathogen[ P14075] interacts with 6 human partners:{P68871;P08238;P07900;P31749;O95865;Q8IUC6}

12905 Pathogen[ POC206] interacts with 6 human partners:{P68871;P31749;O95865;P08238;P07900;Q8IUC6}

12906 Pathogen[ P03363] interacts with 5 human partners:{P07900;P68871;P31749;O95865;P08238}

12907 [Cluster 1174]GO:0019725+P biological\_process [name] cellular homeostasis [def] "Any process involved in the maintenance of an internal steady state at the level of the cell." [GOC

12908 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8WXF8}

12909 Pathogen[ POC214] interacts with 1 human partners:{Q8WXF8}

12910 Pathogen[ P03346] interacts with 2 human partners:{Q8WXF8;Q07820}

12911 Pathogen[ Q85601] interacts with 1 human partners:{Q8WXF8}

12912 Pathogen[ P14079] interacts with 1 human partners:{Q8WXF8}

12913 Pathogen[ P03383] interacts with 1 human partners:{Q8WXF8}

12914 Pathogen[ P03410] interacts with 1 human partners:{Q8WXF8}

12915 Pathogen[ P14075] interacts with 1 human partners:{Q8WXF8}

12916 Pathogen[ POC206] interacts with 1 human partners:{Q8WXF8}

12917 Pathogen[ P03363] interacts with 2 human partners:{Q07820;Q8WXF8}

12918 [Cluster 1175]GO:0048599+P biological\_process [name] oocyte development [def] "The process whose specific outcome is the progression of an oocyte over time, from initial commitment of the cell to its specific fate, to the fully functional differentiated cell." [GOC

12919 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9Y2T7}

12920 Pathogen[ POC214] interacts with 1 human partners:{Q9Y2T7}

12921 Pathogen[ P03346] interacts with 2 human partners:{Q6QHK4;Q9Y2T7}

12922 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y2T7}

12923 Pathogen[ P14079] interacts with 2 human partners:{Q7Z7C7;Q9Y2T7}

12924 Pathogen[ P03383] interacts with 1 human partners:{Q9Y2T7}

12925 Pathogen[ P03410] interacts with 2 human partners:{Q7Z7C7;Q9Y2T7}

12926 Pathogen[ P14075] interacts with 2 human partners:{Q9Y2T7;Q7Z7C7}

12927 Pathogen[ POC206] interacts with 2 human partners:{Q7Z7C7;Q9Y2T7}

12928 Pathogen[ P03363] interacts with 2 human partners:{Q9Y2T7;Q6QHK4}

12929 [Cluster 1176]GO:0042130+P biological\_process [name] negative regulation of T cell proliferation [def] "Any process that stops, prevents or reduces the rate or extent of T cell proliferation." [GOC

12930 Pathogen[ Q2Q067] interacts with 4 human partners:{Q92990;Q12959;Q96FA3;Q96IZ0}

12931 Pathogen[ POC214] interacts with 3 human partners:{Q96IZ0;Q96FA3;Q12959}

12932 Pathogen[ P03346] interacts with 4 human partners:{Q92990;Q96FA3;Q96IZ0;Q12959}

12933 Pathogen[ Q85601] interacts with 3 human partners:{Q96IZ0;Q96FA3;Q12959}

12934 Pathogen[ P14079] interacts with 3 human partners:{Q96FA3;Q92990;Q96IZ0}

12935 Pathogen[ P03383] interacts with 3 human partners:{Q96IZ0;Q96FA3;Q92990}

12936 Pathogen[ P03410] interacts with 4 human partners:{Q96FA3;Q12959;Q92990;Q96IZ0}

12937 Pathogen[ P14075] interacts with 3 human partners:{Q92990;Q96IZ0;Q96FA3}

12938 Pathogen[ POC206] interacts with 4 human partners:{Q96IZ0;Q92990;Q96FA3;Q12959}

12939 Pathogen[ P03363] interacts with 4 human partners:{Q12959;Q96IZ0;Q92990;Q96FA3}

12940 [Cluster 1177]GO:0007144+P biological\_process [name] female meiosis I [def] "The cell cycle process in which the first meiotic division occurs in the female germline." [GOC

12941 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9UHC1;P30305}  
12942 Pathogen[ P0C214] interacts with 2 human partners:{Q9UHC1;P30305}  
12943 Pathogen[ P03346] interacts with 2 human partners:{P30305;Q9UHC1}  
12944 Pathogen[ Q85601] interacts with 2 human partners:{P30305;Q9UHC1}  
12945 Pathogen[ P14079] interacts with 2 human partners:{Q9UHC1;P30305}  
12946 Pathogen[ P03383] interacts with 1 human partners:{Q9UHC1}  
12947 Pathogen[ P03410] interacts with 2 human partners:{P30305;Q9UHC1}  
12948 Pathogen[ P14075] interacts with 1 human partners:{Q9UHC1}  
12949 Pathogen[ P0C206] interacts with 2 human partners:{Q9UHC1;P30305}  
12950 Pathogen[ P03363] interacts with 1 human partners:{Q9UHC1}  
12951 [Cluster 1178]GO:0048490+P biological\_process [name] anterograde synaptic vesicle transport [def] "The directed movement of substances in synaptic membrane-bounded vesicles within the neuron, along the cytoskeleton, away from the neuronal cell body." [GOC  
12952 Pathogen[ Q2Q067] interacts with 12 human partners:{Q9UL45;Q92572;O95295;Q9NUP1;Q6QNY0;Q96EV8;Q8TDH9;P53677;Q9Y2T2;Q6QNY1;P78537;Q13367}  
12953 Pathogen[ P0C214] interacts with 13 human partners:{P59780;O95295;Q9Y2T2;Q13367;P78537;Q8TDH9;Q6QNY0;Q92572;P53677;Q9UL45;Q96EV8;Q9NUP1;Q6QNY1}  
12954 Pathogen[ P03346] interacts with 14 human partners:{O95295;Q92572;P59780;Q6QNY0;P78537;Q96EV8;Q6QNY1;Q9UL45;Q13367;O14617;Q8TDH9;Q9NUP1;P53677;Q9Y2T2}  
12955 Pathogen[ Q85601] interacts with 12 human partners:{Q13367;Q6QNY0;Q9Y2T2;Q9NUP1;O95295;P78537;Q96EV8;P53677;Q92572;P59780;Q6QNY1;Q8TDH9}  
12956 Pathogen[ P14079] interacts with 14 human partners:{Q6QNY0;Q9Y2T2;P59780;Q92572;Q9UL45;Q8TDH9;P53677;O95295;Q13367;Q96EV8;Q9NUP1;O14617;Q6QNY1;P78537}  
12957 Pathogen[ P03383] interacts with 11 human partners:{Q6QNY0;Q92572;O95295;Q8TDH9;P78537;Q9NUP1;P53677;Q96EV8;Q9Y2T2;Q13367;Q6QNY1}  
12958 Pathogen[ P03410] interacts with 15 human partners:{Q9NUP1;O00203;P78537;Q6QNY1;Q6QNY0;Q92572;O14617;Q9UL45;O95295;Q9Y2T2;P53677;P59780;Q13367;Q8TDH9;Q96EV8}  
12959 Pathogen[ P14075] interacts with 10 human partners:{P78537;O95295;Q9Y2T2;Q6QNY1;Q6QNY0;Q9NUP1;Q92572;Q8TDH9;Q96EV8;Q13367}  
12960 Pathogen[ P0C206] interacts with 14 human partners:{P78537;Q9UL45;Q92572;Q6QNY1;Q9Y2T2;Q8TDH9;P59780;P53677;Q96EV8;O95295;O14617;Q9NUP1;Q6QNY0;Q13367}  
12961 Pathogen[ P03363] interacts with 10 human partners:{Q9Y2T2;Q13367;P53677;P78537;Q92572;Q6QNY1;O95295;Q8TDH9;Q6QNY0;Q9NUP1}  
12962 [Cluster 1179]GO:0042391+P biological\_process [name] regulation of membrane potential [def] "Any process that modulates the establishment or extent of a membrane potential, the electric potential existing across any membrane arising from charges in the membrane itself and from the charges present in the media on either side of the membrane." [GOC  
12963 Pathogen[ Q2Q067] interacts with 3 human partners:{Q12959;Q96PU5;Q9HD47}  
12964 Pathogen[ P0C214] interacts with 5 human partners:{O00308;Q12959;P09622;Q9HD47;Q96PU5}  
12965 Pathogen[ P03346] interacts with 4 human partners:{Q96PU5;Q9HD47;O00308;Q12959}  
12966 Pathogen[ Q85601] interacts with 3 human partners:{Q9HD47;Q96PU5;Q12959}  
12967 Pathogen[ P14079] interacts with 2 human partners:{Q702N8;Q9HD47}  
12968 Pathogen[ P03383] interacts with 1 human partners:{Q9HD47}  
12969 Pathogen[ P03410] interacts with 4 human partners:{Q702N8;Q12959;Q9HD47;P33176}  
12970 Pathogen[ P14075] interacts with 1 human partners:{Q9HD47}  
12971 Pathogen[ P0C206] interacts with 4 human partners:{Q96PU5;O00308;Q9HD47;Q12959}  
12972 Pathogen[ P03363] interacts with 5 human partners:{Q12959;P33176;Q9HD47;Q96PU5;O00308}  
12973 [Cluster 1180]GO:0090266+P biological\_process [name] regulation of mitotic cell cycle spindle assembly checkpoint [def] "Any process that modulates the rate, frequency, or extent of the mitotic cell cycle spindle assembly checkpoint, a cell cycle checkpoint that delays the metaphase/anaphase transition of a mitotic nuclear division until the spindle is correctly assembled and chromosomes are attached to the spindle." [GOC  
12974 Pathogen[ Q2Q067] interacts with 1 human partners:{P60006}  
12975 Pathogen[ P0C214] interacts with 1 human partners:{P60006}  
12976 Pathogen[ P03346] interacts with 2 human partners:{P60006;Q9H0E7}  
12977 Pathogen[ Q85601] interacts with 2 human partners:{Q9H0E7;P60006}  
12978 Pathogen[ P14079] interacts with 1 human partners:{P60006}  
12979 Pathogen[ P03383] interacts with 1 human partners:{P60006}  
12980 Pathogen[ P03410] interacts with 1 human partners:{P60006}  
12981 Pathogen[ P14075] interacts with 1 human partners:{P60006}  
12982 Pathogen[ P0C206] interacts with 2 human partners:{Q9H0E7;P60006}  
12983 Pathogen[ P03363] interacts with 1 human partners:{P60006}  
12984 [Cluster 1181]GO:0048812+P biological\_process [name] neuron projection morphogenesis [def] "The process in which the anatomical structures of a neuron projection are generated and organized. A neuron projection is any process extending from a neural

cell, such as axons or dendrites." [GOC  
12985 Pathogen[ Q2Q067] interacts with 7 human  
partners:{P63172;Q96EV8;P11532;Q9P242;Q99700;Q66K74;Q6ZVC0}  
12986 Pathogen[ POC214] interacts with 9 human  
partners:{A0MZ66;Q9P242;Q99700;P11532;Q96EV8;Q6ZVC0;P10909;P63172;Q66K74}  
12987 Pathogen[ P03346] interacts with 6 human  
partners:{P50219;Q66K74;Q99700;Q96EV8;P63172;P11532}  
12988 Pathogen[ Q85601] interacts with 7 human  
partners:{Q66K74;P11532;Q9P242;P63172;Q96EV8;Q6ZVC0;Q99700}  
12989 Pathogen[ P14079] interacts with 9 human  
partners:{P63172;P11532;Q99700;Q66K74;A0MZ66;P10909;Q9P242;Q96EV8;Q6ZVC0}  
12990 Pathogen[ P03383] interacts with 6 human  
partners:{P63172;Q99700;Q96EV8;P11532;Q6ZVC0;Q9P242}  
12991 Pathogen[ P03410] interacts with 9 human  
partners:{Q99700;Q6ZVC0;P11532;P63172;A0MZ66;Q66K74;Q9P242;Q96EV8;P10909}  
12992 Pathogen[ P14075] interacts with 6 human  
partners:{P11532;Q6ZVC0;Q9P242;P63172;Q96EV8;Q99700}  
12993 Pathogen[ POC206] interacts with 10 human  
partners:{Q66K74;P30291;Q99700;Q96EV8;P10909;A0MZ66;Q9P242;P11532;P63172;Q6ZVC0}  
12994 Pathogen[ P03363] interacts with 5 human  
partners:{Q66K74;P63172;P11532;Q99700;P50219}  
12995 [Cluster 1182]GO:0006778+P biological\_process [name] porphyrin-containing compound  
metabolic process [def] "The chemical reactions and pathways involving any member of a  
large group of derivatives or analogs of porphyrin. Porphyrins consists of a ring of  
four pyrrole nuclei linked each to the next at their alpha positions through a methine  
group." [GOC  
12996 Pathogen[ Q2Q067] interacts with 5 human  
partners:{P10746;P22557;P13196;P06132;P08397}  
12997 Pathogen[ POC214] interacts with 8 human  
partners:{P06132;P22557;P13196;P10746;P08397;P30043;P36551;P22830}  
12998 Pathogen[ P03346] interacts with 4 human partners:{P10746;P22557;P13196;P06132}  
12999 Pathogen[ Q85601] interacts with 4 human partners:{P10746;P13196;P06132;P08397}  
13000 Pathogen[ P14079] interacts with 7 human  
partners:{P13196;P22557;P10746;P06132;P08397;P22830;P36551}  
13001 Pathogen[ P03383] interacts with 2 human partners:{P06132;P08397}  
13002 Pathogen[ P03410] interacts with 7 human  
partners:{P08397;P06132;P36551;P10746;P22557;P22830;P13196}  
13003 Pathogen[ P14075] interacts with 2 human partners:{P06132;P08397}  
13004 Pathogen[ POC206] interacts with 7 human  
partners:{P10746;P36551;P22557;P22830;P13196;P08397;P06132}  
13005 Pathogen[ P03363] interacts with 2 human partners:{P06132;P13196}  
13006 [Cluster 1183]GO:0006422+P biological\_process [name] aspartyl-tRNA aminoacylation  
[def] "The process of coupling aspartate to aspartyl-tRNA, catalyzed by aspartyl-tRNA  
synthetase. In tRNA aminoacylation, the amino acid is first activated by linkage to AMP  
and then transferred to either the 2'- or the 3'-hydroxyl group of the 3'-adenosine  
residue of the tRNA." [GOC  
13007 Pathogen[ Q2Q067] interacts with 1 human partners:{P14868}  
13008 Pathogen[ POC214] interacts with 1 human partners:{P14868}  
13009 Pathogen[ P03346] interacts with 1 human partners:{P14868}  
13010 Pathogen[ Q85601] interacts with 1 human partners:{P14868}  
13011 Pathogen[ P14079] interacts with 1 human partners:{P14868}  
13012 Pathogen[ P03383] interacts with 1 human partners:{P14868}  
13013 Pathogen[ P03410] interacts with 1 human partners:{P14868}  
13014 Pathogen[ P14075] interacts with 1 human partners:{P14868}  
13015 Pathogen[ POC206] interacts with 1 human partners:{P14868}  
13016 Pathogen[ P03363] interacts with 1 human partners:{P14868}  
13017 [Cluster 1184]GO:0034770+P biological\_process [name] histone H4-K20 methylation  
[def] "The modification of histone H4 by addition of one or more methyl groups to lysine  
at position 20 of the histone." [GOC  
13018 Pathogen[ Q2Q067] interacts with 2 human partners:{Q86Y97;Q9UIF9}  
13019 Pathogen[ POC214] interacts with 2 human partners:{Q9UIF9;Q86Y97}  
13020 Pathogen[ P03346] interacts with 2 human partners:{Q86Y97;Q9UIF9}  
13021 Pathogen[ Q85601] interacts with 2 human partners:{Q9UIF9;Q86Y97}  
13022 Pathogen[ P14079] interacts with 2 human partners:{Q9UIF9;Q86Y97}  
13023 Pathogen[ P03383] interacts with 2 human partners:{Q86Y97;Q9UIF9}  
13024 Pathogen[ P03410] interacts with 2 human partners:{Q86Y97;Q9UIF9}  
13025 Pathogen[ P14075] interacts with 2 human partners:{Q9UIF9;Q86Y97}  
13026 Pathogen[ POC206] interacts with 2 human partners:{Q86Y97;Q9UIF9}  
13027 Pathogen[ P03363] interacts with 2 human partners:{Q9UIF9;Q86Y97}  
13028 [Cluster 1185]GO:0030185+P biological\_process [name] nitric oxide transport [def]  
"The directed movement of nitric oxide, nitrogen monoxide, into, out of or within a  
cell, or between cells, by means of some agent such as a transporter or pore." [GOC  
13029 Pathogen[ Q2Q067] interacts with 1 human partners:{P68871}  
13030 Pathogen[ POC214] interacts with 1 human partners:{P68871}  
13031 Pathogen[ P03346] interacts with 1 human partners:{P68871}  
13032 Pathogen[ Q85601] interacts with 1 human partners:{P68871}

13033 Pathogen[ P14079] interacts with 1 human partners:{P68871}  
13034 Pathogen[ P03383] interacts with 1 human partners:{P68871}  
13035 Pathogen[ P03410] interacts with 1 human partners:{P68871}  
13036 Pathogen[ P14075] interacts with 1 human partners:{P68871}  
13037 Pathogen[ P0C206] interacts with 1 human partners:{P68871}  
13038 Pathogen[ P03363] interacts with 1 human partners:{P68871}  
13039 [Cluster 1186]GO:0010452+P biological\_process [name] histone H3-K36 methylation  
[def] "The modification of histone H3 by addition of a methyl group to lysine at  
position 36 of the histone." [GOC  
13040 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9NRG4;Q86TU7}  
13041 Pathogen[ P0C214] interacts with 2 human partners:{Q86TU7;Q9NRG4}  
13042 Pathogen[ P03346] interacts with 3 human partners:{Q9BYW2;Q9NRG4;Q86TU7}  
13043 Pathogen[ Q85601] interacts with 2 human partners:{Q86TU7;Q9NRG4}  
13044 Pathogen[ P14079] interacts with 2 human partners:{Q9NRG4;Q86TU7}  
13045 Pathogen[ P03383] interacts with 2 human partners:{Q9NRG4;Q86TU7}  
13046 Pathogen[ P03410] interacts with 2 human partners:{Q86TU7;Q9NRG4}  
13047 Pathogen[ P14075] interacts with 2 human partners:{Q86TU7;Q9NRG4}  
13048 Pathogen[ P0C206] interacts with 2 human partners:{Q9NRG4;Q86TU7}  
13049 Pathogen[ P03363] interacts with 1 human partners:{Q9NRG4}  
13050 [Cluster 1187]GO:2000824+P biological\_process [name] negative regulation of androgen  
receptor activity [def] "Any process that stops, prevents or reduces the frequency,  
rate or extent of androgen receptor activity." [GOC  
13051 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NQ87}  
13052 Pathogen[ P0C214] interacts with 1 human partners:{Q9NQ87}  
13053 Pathogen[ P03346] interacts with 2 human partners:{Q9NQ87;O75593}  
13054 Pathogen[ Q85601] interacts with 1 human partners:{Q9NQ87}  
13055 Pathogen[ P14079] interacts with 1 human partners:{Q9NQ87}  
13056 Pathogen[ P03383] interacts with 1 human partners:{Q9NQ87}  
13057 Pathogen[ P03410] interacts with 1 human partners:{Q9NQ87}  
13058 Pathogen[ P14075] interacts with 1 human partners:{Q9NQ87}  
13059 Pathogen[ P0C206] interacts with 1 human partners:{Q9NQ87}  
13060 Pathogen[ P03363] interacts with 1 human partners:{Q9NQ87}  
13061 [Cluster 1188]GO:0075732+P  
13062 Pathogen[ Q2Q067] interacts with 2 human partners:{P49790;O00505}  
13063 Pathogen[ P0C214] interacts with 2 human partners:{P49790;O00505}  
13064 Pathogen[ P03346] interacts with 2 human partners:{O00505;P49790}  
13065 Pathogen[ Q85601] interacts with 2 human partners:{O00505;P49790}  
13066 Pathogen[ P14079] interacts with 2 human partners:{P49790;O00505}  
13067 Pathogen[ P03383] interacts with 2 human partners:{O00505;P49790}  
13068 Pathogen[ P03410] interacts with 2 human partners:{O00505;P49790}  
13069 Pathogen[ P14075] interacts with 2 human partners:{O00505;P49790}  
13070 Pathogen[ P0C206] interacts with 2 human partners:{P49790;O00505}  
13071 Pathogen[ P03363] interacts with 2 human partners:{O00505;P49790}  
13072 [Cluster 1189]GO:0034501+P biological\_process [name] protein localization to  
kinetochore [def] "Any process in which a protein is transported to, or maintained at,  
the kinetochore." [GOC  
13073 Pathogen[ Q2Q067] interacts with 4 human partners:{O43264;Q96JM3;Q8NG31;Q96EA4}  
13074 Pathogen[ P0C214] interacts with 4 human partners:{O43264;Q96EA4;Q8NG31;Q96JM3}  
13075 Pathogen[ P03346] interacts with 4 human partners:{O43264;Q96EA4;Q96JM3;Q8NG31}  
13076 Pathogen[ Q85601] interacts with 4 human partners:{Q96JM3;O43264;Q8NG31;Q96EA4}  
13077 Pathogen[ P14079] interacts with 4 human partners:{Q8NG31;Q96EA4;Q96JM3;O43264}  
13078 Pathogen[ P03383] interacts with 3 human partners:{O43264;Q96EA4;Q8NG31}  
13079 Pathogen[ P03410] interacts with 4 human partners:{Q96JM3;Q8NG31;O43264;Q96EA4}  
13080 Pathogen[ P14075] interacts with 3 human partners:{Q96EA4;O43264;Q8NG31}  
13081 Pathogen[ P0C206] interacts with 4 human partners:{Q96JM3;Q96EA4;O43264;Q8NG31}  
13082 Pathogen[ P03363] interacts with 4 human partners:{Q96EA4;O43264;Q96JM3;Q8NG31}  
13083 [Cluster 1190]GO:0060326+P biological\_process [name] cell chemotaxis [def] "The  
directed movement of a motile cell guided by a specific chemical concentration gradient.  
Movement may be towards a higher concentration (positive chemotaxis) or towards a lower  
concentration (negative chemotaxis)." [GOC  
13084 Pathogen[ Q2Q067] interacts with 4 human partners:{P56945;P17482;Q8N1I0;Q96JJ3}  
13085 Pathogen[ P0C214] interacts with 4 human partners:{P56945;P17482;Q8N1I0;Q96JJ3}  
13086 Pathogen[ P03346] interacts with 5 human  
partners:{Q96JJ3;P56945;Q5VV41;Q8N1I0;P17482}  
13087 Pathogen[ Q85601] interacts with 4 human partners:{Q96JJ3;P56945;Q8N1I0;P17482}  
13088 Pathogen[ P14079] interacts with 3 human partners:{Q96JJ3;Q8N1I0;Q5VV41}  
13089 Pathogen[ P03383] interacts with 2 human partners:{P56945;P17482}  
13090 Pathogen[ P03410] interacts with 5 human  
partners:{P17482;Q5VV41;P56945;Q8N1I0;Q96JJ3}  
13091 Pathogen[ P14075] interacts with 2 human partners:{P17482;P56945}  
13092 Pathogen[ P0C206] interacts with 4 human partners:{P17482;Q96JJ3;Q8N1I0;P56945}  
13093 Pathogen[ P03363] interacts with 5 human  
partners:{Q5VV41;Q8N1I0;P56945;P17482;Q96JJ3}  
13094 [Cluster 1191]GO:0019054+P biological\_process [name] modulation by virus of host  
cellular process [def] "The process in which a virus effects a change in the cellular  
pathways and activities of its host organism." [GOC

13095 Pathogen[ Q2Q067] interacts with 2 human partners:{095639;Q86U42}  
13096 Pathogen[ P0C214] interacts with 2 human partners:{095639;Q86U42}  
13097 Pathogen[ P03346] interacts with 2 human partners:{095639;Q86U42}  
13098 Pathogen[ Q85601] interacts with 2 human partners:{095639;Q86U42}  
13099 Pathogen[ P14079] interacts with 2 human partners:{095639;Q86U42}  
13100 Pathogen[ P03383] interacts with 1 human partners:{Q86U42}  
13101 Pathogen[ P03410] interacts with 2 human partners:{095639;Q86U42}  
13102 Pathogen[ P14075] interacts with 1 human partners:{Q86U42}  
13103 Pathogen[ P0C206] interacts with 2 human partners:{Q86U42;095639}  
13104 Pathogen[ P03363] interacts with 1 human partners:{Q86U42}  
13105 [Cluster 1192]GO:0006417+P biological\_process [name] regulation of translation  
[def] "Any process that modulates the frequency, rate or extent of the chemical  
reactions and pathways resulting in the formation of proteins by the translation of  
mRNA." [GOC  
13106 Pathogen[ Q2Q067] interacts with 53 human  
partners:{P05198;O00425;O15234;P31749;A9UHW6;Q9UQ80;Q9BSH4;Q9BY44;P61326;P41220;Q9BZ  
Q8;Q9HCK5;Q9H074;P82979;P08729;O75807;Q9Y6M1;O43639;P38919;Q15633;Q9BRP8;Q13541;O435  
24;Q9BY77;Q9UI10;O43310;P62263;Q14232;Q8ND56;P78344;Q9H9G7;O43918;Q9Y5S9;Q9BRS8;O605  
16;Q9UKV8;P16333;Q8WY41;Q13144;Q09161;P21399;Q9BPZ3;O60573;Q8TB72;P52298;Q99700;Q9UL  
18;Q04637;P06730;Q13542;P46781;P48200;Q07352}  
13107 Pathogen[ P0C214] interacts with 63 human  
partners:{Q9BY77;Q8TB72;P82979;P08729;O15234;P41220;Q09161;Q8ND56;Q9UI10;P62263;Q9BR  
P8;Q9BY44;Q9Y5S9;O75807;Q8N5X7;A6NMX2;O00425;Q9UPU9;P78344;O60516;Q14232;P48200;Q5SW  
A1;Q9NZI8;Q8NEJ9;Q13542;O43639;Q9BPZ3;Q99700;Q9UPQ9;Q07352;Q15633;P52298;P61326;Q9BR  
S8;Q9BZQ8;P38919;Q9H074;Q9BX40;Q13144;A9UHW6;O43310;Q14671;Q9H9G7;Q8NDV7;P46781;Q9UK  
V8;O43918;P16333;Q04637;Q8WY41;P05198;Q9Y6M1;Q9HCK5;Q9HJC0;Q9UQ80;P21399;P06730;Q9BS  
H4;Q9UL18;P31749;Q13541;O60573}  
13108 Pathogen[ P03346] interacts with 66 human  
partners:{Q9Y5S9;P08729;O15234;Q8ND56;Q13542;Q09161;P06730;Q9BPZ3;Q96PU8;Q14671;O439  
18;O43639;Q9UQ80;Q9Y6M1;O00425;Q9BX40;Q13541;Q9H9G7;Q9UL18;Q8N5X7;Q15633;Q9NZI8;P783  
44;P38919;O60573;P82979;Q96J94;Q5SWA1;P52298;Q8TB72;P16333;Q9HCK5;Q99700;Q14232;Q8NE  
J9;A9UHW6;P31749;Q9H074;Q9BZQ8;Q9BY77;P48200;P46781;P61326;Q9UKV8;Q07352;Q8WY41;Q96K  
C8;Q9BY44;O43310;Q04637;Q92616;A6NMX2;Q9BRP8;P41220;P62263;Q9UPQ9;P21399;Q13144;O435  
24;Q9BRS8;Q9BSH4;O75807;O60516;P58546;Q9UI10;P05198}  
13109 Pathogen[ Q85601] interacts with 58 human  
partners:{P08729;O15234;Q9BSH4;P31749;Q9UQ80;Q9HCK5;P21399;P06730;P41220;P16333;Q073  
52;Q9UL18;Q8N5X7;P61326;P48200;Q04637;Q9BY44;Q5SWA1;Q9BRS8;O60516;Q13144;O43639;Q9BR  
P8;P62263;Q13541;Q09161;Q9BZQ8;P82979;P38919;Q9BY77;Q9Y6M1;Q9H9G7;Q8TB72;O60573;Q9BP  
Z3;O00425;P78344;Q9BX40;Q9UKV8;Q9H074;Q15633;Q8WY41;P05198;A9UHW6;P52298;Q9UPQ9;O758  
07;O43310;Q9UPU9;Q14671;Q14232;Q99700;O43918;Q9UI10;P46781;Q9Y5S9;Q13542;Q8ND56}  
13110 Pathogen[ P14079] interacts with 63 human  
partners:{P31751;A6NMX2;Q9UKV8;A9UHW6;Q8WY41;Q9UL18;Q9H9G7;Q5SWA1;P06730;Q9UI10;Q8ND  
56;Q9BY44;Q99700;P46781;P82979;P52298;P21399;Q9HCK5;Q9Y5S9;O43432;Q9UPU9;O75807;P051  
98;P08729;Q9BSH4;Q9H074;P41220;Q9BY77;Q8TB72;Q13144;Q13541;P78344;O60573;P61326;P622  
63;Q9HJC0;Q9BPZ3;Q9BRP8;P16333;Q9BRS8;P16333;Q9BRS8;Q92616;P48200;Q9P2X3;O43310;Q9Y6M1;Q135  
42;O43918;O43639;Q9BX40;O60516;O00425;Q14232;Q8NEJ9;Q14671;Q9UQ80;Q9BZQ8;O15234;Q073  
52;Q09161;Q04637;Q9UPQ9;Q8NDV7}  
13111 Pathogen[ P03383] interacts with 52 human  
partners:{P08729;O15234;Q9BX40;Q9BSH4;Q9UL18;Q9UPQ9;P41220;Q9Y5S9;P31749;A9UHW6;Q997  
00;Q9UI10;P61326;P48200;P38919;Q8TB72;Q9HCK5;Q5SWA1;Q07352;O60573;Q9BRS8;Q9BY44;Q135  
42;Q09161;Q9BZQ8;Q13144;P06730;Q13541;P05198;Q8ND56;P82979;P78344;Q9BY77;Q9UKV8;Q9H0  
74;O43918;Q8WY41;P52298;Q04637;Q9UQ80;P46781;Q14232;O43310;O75807;O00425;P62263;P163  
33;O60516;Q9BPZ3;Q9H9G7;Q9BRP8;Q15633}  
13112 Pathogen[ P03410] interacts with 66 human  
partners:{Q99700;Q9UPQ9;P61326;O15234;Q9UKV8;Q15633;Q9BPZ3;P41220;Q9UL18;P06730;Q9UQ  
80;P46781;Q9Y5S9;O43639;Q9HJC0;Q8NDV7;O43918;P31749;Q14232;P16333;P82979;Q8NEJ9;O434  
32;Q9H9G7;Q13541;Q9H074;Q96EY7;A9UHW6;P21399;P52298;Q9UPU9;O43310;Q9P2X3;Q5SWA1;Q9HC  
K5;Q13542;O75807;P38919;Q92616;O60573;Q8ND56;Q9BY44;O00425;Q9BY77;Q8N5X7;P62263;Q091  
61;P48200;Q9BZQ8;P08729;Q04637;O60516;Q14671;Q8WY41;A6NMX2;Q9BSH4;Q8TB72;Q9BRS8;Q073  
52;P78344;Q9UI10;Q9BX40;Q9Y6M1;Q13144;Q9BRP8;P05198}  
13113 Pathogen[ P14075] interacts with 54 human  
partners:{P82979;P08729;O15234;Q8TB72;P46781;Q8NEJ9;Q09161;Q13542;Q9HCK5;O60516;Q9BR  
P8;P61326;Q9H9G7;Q9BX40;O43918;P78344;P41220;Q5SWA1;Q9H074;Q9P2X3;P06730;Q9UI10;A9UH  
W6;P05198;P16333;P31749;O60573;Q14232;Q9BSH4;Q9BZQ8;Q9UPQ9;Q04637;O75807;Q9BRS8;Q9UK  
V8;Q07352;Q15633;Q8WY41;Q9UQ80;O43310;Q9Y5S9;Q9UL18;Q99700;P48200;Q13144;O00425;P389  
19;Q9BPZ3;Q9BY44;Q13541;P62263;Q8ND56;Q9BY77;P52298}  
13114 Pathogen[ P0C206] interacts with 63 human  
partners:{A9UHW6;Q9BZQ8;Q13541;Q9H074;Q9HCK5;P52298;P31749;P61326;Q8ND56;Q9BX40;Q091  
61;O75807;P46781;Q14232;Q9BY77;Q96PU8;Q9BRS8;P08729;P62263;Q9UPQ9;Q9UKV8;Q8TB72;Q8ND  
V7;Q8WY41;P06730;P48200;Q13144;Q92616;Q8NEJ9;O43918;P05198;Q8N5X7;Q13542;Q99700;Q9UP  
U9;Q9BPZ3;Q9UI10;A6NMX2;O15234;Q5SWA1;Q15633;P16333;Q9H9G7;P78344;Q9BY44;O60573;Q046  
37;Q07352;Q9UQ80;P38919;Q9BSH4;P41220;O43310;Q9P2X3;Q9Y6M1;O43639;O60516;P21399;Q9Y5  
S9;Q14671;Q9UL18;Q9BRP8;O00425}  
13115 Pathogen[ P03363] interacts with 66 human  
partners:{Q8TB72;P38919;Q9BY44;O43310;Q7Z3Z4;Q9BZQ8;Q9BSH4;A9UHW6;Q9UI10;Q9H9G7;O004  
25;Q9HCK5;P48200;Q9UKV8;Q9Y6M1;O43639;Q8WY41;Q15633;Q9UQ80;Q8NDV7;Q9BRP8;Q96PU8;P613

- 26;P05198;Q9BX40;Q8N9W6;O43524;Q92904;Q07352;Q8N5X7;Q9BY77;Q9BPZ3;Q9UPU9;Q9NZI8;P31749;P16333;P46781;A6NMX2;P52298;O75807;P08729;P41220;P82979;Q9BRS8;Q9UPQ9;Q9UL18;Q8ND56;Q92616;Q14671;Q96J94;O60573;Q13144;O43918;Q99700;Q13541;P78344;Q8NEJ9;P06730;P62263;Q9Y5S9;Q9H074;O60516;Q13542;Q09161;Q04637;O15234}
- 13116 [Cluster 1193]GO:0051297+P biological\_process [name] centrosome organization [def] "A process that is carried out at the cellular level which results in the assembly, arrangement of constituent parts, or disassembly of a centrosome, a structure comprised of a pair of centrioles and peri-centriolar material from which a microtubule spindle apparatus is organized." [GOC
- 13117 Pathogen[ Q2Q067] interacts with 17 human partners:{Q14008;Q7Z4H7;O14974;O94927;A8MVW5;Q9NVX0;Q96SN8;Q99871;Q15004;Q9UBK9;Q9BT25;Q9H6D7;Q12873;Q5TZA2;Q96CS2;Q15154;Q68CZ6}
- 13118 Pathogen[ P0C214] interacts with 18 human partners:{O94927;Q15154;Q14008;Q7Z4H7;Q12873;Q96SN8;A8MVW5;O14974;Q96CS2;Q9BT25;Q15004;Q99871;Q9H6D7;Q68CZ6;Q9UBK9;Q9NVX0;Q5TZA2;P36404}
- 13119 Pathogen[ P03346] interacts with 19 human partners:{Q9BT25;Q9H6D7;Q99871;Q7Z4H7;Q15154;Q15004;A8MVW5;Q9NVX0;Q96SN8;Q14008;Q68CZ6;P36404;Q96CS2;Q5TZA2;Q12873;O94927;O14974;Q9UBK9;Q76N32}
- 13120 Pathogen[ Q85601] interacts with 18 human partners:{Q15154;Q15004;Q14008;Q9H6D7;Q9BT25;Q99871;Q96SN8;Q7Z4H7;Q9NVX0;A8MVW5;Q76N32;Q12873;O94927;Q96CS2;Q5TZA2;O14974;Q9UBK9;Q68CZ6}
- 13121 Pathogen[ P14079] interacts with 18 human partners:{Q5TZA2;Q99871;O14974;Q9NVX0;A8MVW5;Q76N32;Q12873;Q9UBK9;Q9H6D7;Q7Z4H7;Q9BT25;Q68CZ6;Q15154;Q15004;Q96SN8;O94927;Q14008;Q96CS2}
- 13122 Pathogen[ P03383] interacts with 16 human partners:{Q14008;Q9NVX0;Q96SN8;Q7Z4H7;Q15004;A8MVW5;Q99871;Q5TZA2;Q12873;Q96CS2;O94927;Q68CZ6;Q15154;Q9BT25;Q9H6D7;Q9UBK9}
- 13123 Pathogen[ P03410] interacts with 18 human partners:{Q12873;Q9H6D7;Q15154;Q14008;Q96SN8;Q15004;Q9UBK9;Q68CZ6;Q96CS2;Q5TZA2;Q9NVX0;O14974;A8MVW5;O94927;Q99871;Q76N32;Q9BT25;Q7Z4H7}
- 13124 Pathogen[ P14075] interacts with 16 human partners:{Q99871;Q7Z4H7;A8MVW5;Q68CZ6;Q96SN8;Q5TZA2;Q9BT25;Q9UBK9;Q96CS2;Q15154;Q9NVX0;O94927;Q14008;Q12873;Q9H6D7;Q15004}
- 13125 Pathogen[ P0C206] interacts with 18 human partners:{Q96SN8;Q14008;Q5TZA2;Q9BT25;Q9NVX0;O14974;A8MVW5;Q96CS2;Q7Z4H7;O94927;Q76N32;Q9H6D7;Q99871;Q9UBK9;Q15154;Q15004;Q68CZ6;Q12873}
- 13126 Pathogen[ P03363] interacts with 18 human partners:{Q76N32;Q9H6D7;Q9BT25;Q9UBK9;Q5TZA2;A8MVW5;Q68CZ6;O94927;Q9NVX0;Q15004;Q96CS2;Q99871;O14974;Q12873;Q14008;Q7Z4H7;Q15154;Q96SN8}
- 13127 [Cluster 1194]GO:0016561+P biological\_process [name] protein import into peroxisome matrix, translocation [def] "The process in which proteins are moved across the peroxisomal membrane into the matrix. It is likely that the peroxisome targeting sequence receptor remains associated with cargo proteins during translocation." [PMID
- 13128 Pathogen[ Q2Q067] interacts with 1 human partners:{075381}
- 13129 Pathogen[ P0C214] interacts with 1 human partners:{075381}
- 13130 Pathogen[ P03346] interacts with 2 human partners:{075381;P50542}
- 13131 Pathogen[ Q85601] interacts with 1 human partners:{075381}
- 13132 Pathogen[ P14079] interacts with 2 human partners:{P50542;075381}
- 13133 Pathogen[ P03383] interacts with 1 human partners:{075381}
- 13134 Pathogen[ P03410] interacts with 2 human partners:{075381;P50542}
- 13135 Pathogen[ P14075] interacts with 1 human partners:{075381}
- 13136 Pathogen[ P0C206] interacts with 2 human partners:{075381;P50542}
- 13137 Pathogen[ P03363] interacts with 1 human partners:{075381}
- 13138 [Cluster 1195]GO:0006397+P biological\_process [name] mRNA processing [def] "Any process involved in the conversion of a primary mRNA transcript into one or more mature mRNA(s) prior to translation into polypeptide." [GOC
- 13139 Pathogen[ Q2Q067] interacts with 194 human partners:{Q9UNP9;O43290;Q13573;Q8TCS8;P83369;P33240;O75525;P83876;O95639;Q96FV9;Q6UN15;Q86U42;O15234;P07910;P62312;Q9Y333;Q8WUQ7;Q8N2M8;Q9NR56;P55769;Q9Y3F4;P55265;Q9H2H8;O95391;Q9H7N4;Q96LI5;P52272;P61326;O75494;Q8NCE0;P14866;Q15459;Q13148;A6NK39;O75940;Q9BWG6;Q12872;O43447;Q14690;P67809;Q01130;P62318;Q92797;Q15233;Q8WWY3;Q9UHX1;Q5VTL8;Q8N684;O43390;Q13435;Q96DI7;Q15696;O43172;Q9UK45;Q8WTR7;P38919;O60506;Q9H6T0;O00148;Q9H307;Q92945;Q9Y534;Q8NAV1;Q13838;Q9ULR0;Q07955;Q9BWJ5;Q6I9Y2;Q9UDW3;Q13769;Q8NDT2;Q16629;O75400;O94906;O43148;P31943;P49756;Q10570;Q12996;Q9BV90;P62314;P08621;P11142;P61978;Q16630;Q12972;P38159;Q9UHI6;Q9BSV6;P62304;P84103;Q8N1G2;Q8IYB3;Q05048;O94913;Q14498;Q86V81;Q8IWZ8;Q07666;Q96DF8;P51816;Q96IZ7;Q05519;P26368;O43251;Q6P2Q9;Q6NZY4;Q9UBB9;Q8WDX5;P08579;P52597;P23246;P14678;Q9Y5S9;Q9GZX7;Q01081;O75533;Q8TEQ6;O15116;Q9P2I0;P57678;Q13243;P09661;O95232;Q8WVV9;O95218;O43809;Q86X95;O95777;Q15029;Q92499;Q8NI27;Q5BKZ1;P09012;Q09161;Q9P013;O43791;Q8WW01;Q9HCG8;Q9UQ35;Q7RTV0;Q9UNY4;O75934;Q99590;P52298;Q15427;Q9BQ65;P62316;O43395;Q9UKF6;Q14493;Q9NY27;Q9NWZ8;Q6IEG0;Q15007;Q96MU7;O60508;Q9H0G5;P62306;Q9H840;Q9Y2W2;Q7Z6J9;Q15637;Q02040;P22626;Q69YN4;O60870;Q9BTL3;Q9NVV4;Q8WVK2;P18583;Q16637;P11940;Q14331;Q9NP77;P62308;Q9UMS4;O14893;Q99459;Q12874;Q8WYA6;Q00839;A7MD48;Q9HCS7;Q9Y4Z0;O60936;O43660;Q8N163;P62310;Q969L4;Q15428;A8MSY0;Q9Y4Y9;P51003}
- 13140 Pathogen[ P0C214] interacts with 202 human partners:{Q5BKZ1;Q12996;Q6NZY4;Q8N163;Q16637;Q9Y2W2;Q96FV9;P62312;Q15007;O15234;O151



16;P26368;Q9H6T0;P62316;Q9HCS7;Q9ULR0;P83369;Q09161;Q9BQ65;Q13573;Q14331;O43172;O94913;A6NK39;O75934;O00148;P38159;Q9UKF6;Q6IEG0;P84103;Q86V81;Q5VTL8;Q9UDW3;Q9Y5Z9;P51003;Q13769;O60508;P26599;Q9NR56;Q9HOS4;P14678;Q9NY27;Q15029;P62306;Q969L4;Q9P2N5;P55265;Q69YN4;P57678;Q15233;Q15637;Q92797;P67809;Q05048;Q6P2Q9;P23246;Q9BJW5;Q8IWZ8;Q15428;Q9H307;O43395;P11940;Q10570;Q8WXD5;A8MSY0;Q8WV60;P62308;Q9Y4Z0;Q9UK45;O43148;P08579;Q8NAV1;O43390;O95232;Q8N684;Q16630;O94906;Q9Y4Y9;Q9UMS4;Q96IZ7;Q07955;Q9Y534;Q9BWG6;Q9BSV6;Q9H2H8;O75525;Q9Y333;P52298;P52272;Q9Y3C6;Q8WVK2;P62314;P07910;Q14493;Q8IYB3;O60870;O43809;Q9UHX1;P18583;Q15696;P08621;P62310;Q07666;P55769;Q99459;P61326;Q8TEQ6;P38919;Q9UNY4;O43791;Q96DF8;Q13243;Q15427;P83876;Q9P2I0;Q99590;P52597;Q8TCS8;Q12872;Q05519;Q7RTV0;Q15459;Q9UHI6;Q9H0G5;P51816;P62318;Q8NI27;Q01081;O75533;Q96DI7;Q14690;P33240;Q9Y3F4;O75940;Q96BP3;Q12874;Q95777;O75494;O95639;Q9H840;Q15287;P31943;Q92499;P62304;Q96I25;P09012;Q8WTR7;O43447;Q9P013;O60506;Q9BTL3;Q9HCG8;O14893;A6NG73;Q9GZX7;P09661;Q9UQ35;O43290;Q8N1G2;Q12972;Q8WYA6;O95218;Q8NDT2;Q13435;Q00839;Q9BV90;Q96MU7;Q92945;Q13148;P22626;O43251;Q96LI5;O95391;Q02040;Q9UNP9;Q86U42;Q9NVV4;Q9NWZ8;Q13838;Q9H7N4;Q14498;Q8WW01;Q86X95;Q8WV9;Q9NP77;O43660;O75400;Q9UBB9;P49756;Q16629;Q8NCE0;Q8N2M8;P14866;Q5VZF2;Q60936;Q6UN15;Q7Z6J9;Q6I9Y2;Q01130;Q8WWY3;P11142;Q9NS39}

13141 Pathogen[ P03346] interacts with 238 human partners: {Q9Y5S9;Q96FV9;Q15427;P51991;O95639;Q12874;Q86U42;O15234;Q96MU7;P61978;Q9ULR0;Q96DF8;O43172;Q09161;O43290;Q9H2H8;Q08170;Q9BV90;Q8N163;Q8IYB3;Q96PU8;P09651;O43447;Q99633;Q9Y3C6;Q7RTV0;P55265;P14866;Q9BTL3;P62304;P83876;Q9UKF6;O95777;Q96I25;Q9P2N5;Q13148;Q9Y3F4;Q9Y4Y9;P08579;O75400;Q9NS39;Q9UDW3;Q9UK45;Q15007;Q7Z6J9;Q8WVV9;Q15637;Q9NY27;Q9UMS4;P0DJJ3;Q14498;O60506;P23246;Q9H307;Q8WXD5;P38919;P07910;Q96BP3;Q8N684;P11142;A8MSY0;O75940;P18583;A8MWD9;P08621;Q9NX01;P11940;Q13242;Q6UN15;Q8WTR7;P31943;Q00839;Q13247;P26599;Q9Y534;Q92945;Q13769;P52298;O43390;A6NK39;Q9HCS7;Q16629;P22626;O94906;Q9BUQ8;Q9Y333;Q07955;Q9BWG6;A7MD48;Q69YN4;Q9P013;Q05048;Q8IX01;Q16637;P52756;Q9BWG6;Q9BQ65;Q8WVK2;Q92879;Q9H0G5;O60870;Q14493;Q96A72;Q07666;P62318;Q15287;Q92499;O43148;Q86V81;O95232;O60508;A6NDE4;Q8NDT2;Q8WYA6;P51003;Q96J01;Q5VTL8;O75934;O43660;O75643;P67809;P83369;Q9Y3F4;Q9Y4Z0;Q9HCG8;Q86UA1;Q13435;Q8TCS8;Q9NWZ8;P62306;Q9UHI6;Q6NZY4;P49756;Q9NVV4;O94913;Q5VZF2;P26368;P55769;Q01081;O75533;Q8TEQ6;Q8N1G2;O43791;P61326;Q13838;Q9H6T0;P31942;Q9UNY4;O43251;O15116;Q15459;Q9UDW3;Q9BWJ5;Q99590;O75554;Q9UNP9;P42285;Q99459;Q8WWY3;O43809;Q6P2Q9;Q96DI7;Q14562;P09012;P84103;Q9UQ35;Q92797;O95926;Q8IWZ8;P62314;Q15233;P52272;Q15287;O60936;Q05519;Q01130;P14678;Q9H0S4;O95218;Q9BZJ0;P57678;Q9P2I0;Q8NAV1;O14893;Q02040;Q9C0J8;Q13573;Q8WW01;Q9H7N4;Q13243;O00148;O75525;Q96IZ7;P38159;Q86X95;Q969L4;Q9NP77;Q15029;P62316;Q9UHX1;Q8N2M8;Q15696;Q9Y2W2;Q32P51;Q14690;Q8WUQ7;P52597;Q9NQ94;O75494;Q8NI27;Q12972;P62308;P62312;Q10570;Q166LI5;Q12996;Q9BSV6;P51816;P22995;P62310;Q9UK45;Q15393;Q9NR56;P09661;Q9BRX9;P33240;A6NG73;Q16630;Q8NCE0;Q6I9Y2;Q9H840;Q15428;Q6IEG0;Q9NUK0;Q6NWX9;Q5BKZ1;Q12872;Q9NWB1;Q14331;O43395}

13142 Pathogen[ Q85601] interacts with 179 human partners: {Q9Y534;Q15637;O15234;P49756;Q96MU7;P61978;Q9ULR0;Q9HCS7;O43148;Q8N1G2;Q9H2H8;Q9Y2W2;A6NK39;Q9H0S4;O43390;Q8IYB3;Q07666;Q96BP3;Q7RTV0;Q13243;Q05048;P62304;Q13769;Q01130;Q9H307;O60506;Q14331;Q9P2N5;Q13148;O95391;O15116;Q8N684;O75400;Q13573;Q15459;Q15007;Q8WV60;Q9NY27;Q9UMS4;P61326;P22626;Q9UHX1;Q15287;O00148;O60936;Q9GZX7;Q8WYA6;Q5VTL8;O94913;P08621;Q969L4;Q9P013;Q9NR56;Q86V81;Q14690;O75494;O75940;Q92499;Q16629;O75934;O43791;Q9UK45;P62316;O94906;Q9Y55;P55769;Q9BSV6;Q9UBB9;Q09161;Q96DI7;P38919;P14678;Q96FV9;Q9H0G5;O60870;P11940;Q96LI5;P62310;Q13435;P62314;Q8NDT2;P62306;O95232;O60508;Q8TEQ6;Q9Y4Z0;Q13838;P62318;Q12972;Q8TCS8;Q15029;Q9NWZ8;Q8NAV1;P52597;P11142;Q9UHI6;Q6NZY4;Q9Y3C6;Q10570;P62312;Q9P2I0;Q99459;Q01081;Q9UQ35;Q05519;Q9Y3F4;P67809;A8MSY0;Q8NI27;P83369;Q9H7N4;Q9UDW3;Q99590;O43395;O43290;Q8WWY3;P55265;Q12872;Q7Z6J9;P84103;Q92797;Q15233;O95777;Q9BTL3;P14866;Q6P2Q9;O95639;Q96IZ7;P83876;O95218;O43447;Q8N163;Q00839;P18583;Q9NX01;Q6UN15;Q92945;O14893;O43660;P62308;P52298;P38159;Q15696;P23246;P26368;Q9NVV4;Q8WW01;Q9Y333;Q9HCG8;O75525;P51003;Q5BKZ1;Q86U42;Q16637;Q8N2M8;P31943;O43172;Q8WTR7;Q14498;Q9UKF6;Q6I9Y2;Q9UNY4;Q14493;P09661;P33240;A6NG73;Q86X95;Q96DF8;Q12874;O43809;Q9Y5S9;Q8NCE0;Q5VZF2;Q9BWJ5;Q8WXD5;Q9H840;Q6IEG0;Q9Y4Y9}

13143 Pathogen[ P14079] interacts with 205 human partners: {Q15637;O43809;Q96MU7;Q99459;Q9Y333;Q8N9Q2;O43447;Q14004;Q15007;P57678;Q96I25;Q8WVV9;Q15287;Q9H0S4;Q8WTR7;P11142;P41238;O75934;Q8TEQ6;O75400;O94906;Q9Y2W2;O60508;Q8N163;Q5VZF2;Q99633;Q13148;O14893;Q9UKF6;P67809;O75533;Q9UK45;Q10570;Q9UNY4;P52298;Q96DF8;Q12874;A8MSY0;Q13243;Q8N1G2;Q9Y5S9;Q6NZY4;P33240;Q9BSV6;Q96LI5;Q9P013;P26368;P83876;Q8NI27;Q6IEG0;P14866;P23246;P07910;Q13838;Q13573;Q9H840;Q8WW01;Q9BWG6;Q9NY27;O94913;O15116;Q9NS39;O95639;Q9Y3F4;P62312;Q15029;Q9BQ65;Q6P2Q9;Q8NCE0;Q9UHI6;Q9NR56;O60870;P62314;Q14498;Q9HCS7;Q15427;Q9UHX1;Q05048;Q9NQ94;Q9H307;Q00839;O43290;Q8WY3;Q96FV9;P83369;Q15459;Q92797;P62306;P14678;Q13769;Q8IYB3;Q9ULR0;Q9NWZ8;O43148;Q16629;Q5BKZ1;Q9GZX7;P26599;Q8WV60;O75940;Q9BWJ5;Q9Y534;Q6I9Y2;P61326;Q16637;O95926;P49756;Q9UMS4;Q9H7N4;Q9H6T0;A7MD48;Q02040;P55265;P11940;Q9Y4Z0;Q07666;Q05519;Q7RTV0;P08621;Q9H2H8;Q92945;Q8N684;Q9UQ35;O75525;Q7Z6J9;Q86V81;Q86U42;Q96IZ7;Q9NVV4;O00148;Q16630;P62308;O60506;Q15696;Q9UBB9;P09012;Q9BTL3;O60936;P62304;Q15428;Q9NX01;P62316;P62310;Q07955;Q9NP77;Q9H0G5;Q969L4;Q8WUQ7;Q12972;Q8WVK2;Q8NAV1;P61978;P31943;Q9NUK0;Q01081;Q14493;Q9HCG8;O95777;Q14331;O43791;Q92499;O95232;P55769;A6NG73;P52597;O43390;Q8N2M8;Q12872;Q9P2N5;Q9NWB1;P51816;P51003;Q12996;P09661;A6NK39;Q8WW27;O43172;P52756;O75494;Q15233;Q9UDW3;Q69YN4;P62318;Q8WYA6;Q9Y4Y9;Q6UN15;P18583;Q86X95;O43395;O95218;O15234;Q96BP3;Q8WXD5;Q8NDT2;Q8TCS8;O95391;Q09161;P22626;Q5VTL8;P84103;Q8IWZ8;Q9UK59;Q14690;P38159;Q9P2I0}

13144 Pathogen[ P03383] interacts with 180 human partners: {Q13573;Q9NYV4;A6NG73;Q9NVV4;Q8N2M8;Q12872;Q07955;O15234;P09661;Q15287;Q8NI27;Q05048;O75494;A6NK39;P51003;O43148;Q969L4;Q9H0S4;O43390;P83876;Q02040;Q9H840;Q154



A6;Q9H307;Q9BRX9;Q16630;Q15427;P62304;Q01130;Q6P2Q9;P49756;P11940;Q86U42;Q9NR56;Q8WWY3;Q14893;Q8NI27;Q9BWF3;Q32P51;Q96FV9;Q6UN15;Q92620;Q9H0S4;O94913;O43447;Q9UNY4;Q96P U8;Q9P2N5;Q92797;P61326;A6NK39;Q8IWX8;P62306;O15116;Q05519;P52272;P83369;Q15029;Q152 87;P57678;Q5BKZ1;Q9BTL3;Q8N684;O75400;Q9Y3B4;Q14690;Q9BWJ5;Q9Y333;Q14562;P62316;Q132 42;Q96JN7;O95218;Q8WUQ7;Q8IYB3;Q9UDW3;O43809;P38159;P18583;P26368;Q9H7N4;Q92945;Q128 74;Q9UPN6;P31943;O43172;Q9ULR0;P51003;O00148;Q15637;Q96LT9;O60870;Q13243;Q8WXD5;Q86V 81;P07910;Q9NWB1;Q8NAV1;Q8N2M8;Q8N163;O75934;Q8WW01;P31942;Q92499;O43290;Q13573;P522 98;Q13838;O43148;Q9UHX1;Q02040;P08621;P55265;Q9H840;Q96LI5;P22626;Q9BQ65;P83876;P265 99;O60936;Q6I9Y2;Q9NY27;P62310;Q9UKM9;O95319;Q07955;O43660;Q5VTL8;P51816;O60506;Q96E 39;Q01081;Q5VZF2;Q96A72;Q9UK45;P61978;O94906;Q9HCG8;Q969L4;Q13247;Q15428;P55769;Q5SZ Q8;Q8WVK2;A6NDE4;Q8TEQ6;Q00839;P62308;Q9P013;Q16637;Q8WTR7;Q9UKF6;Q9Y534;P84103;Q9UM S4;Q14498;A7MD48;Q99633;Q7Z6J9;O43390;Q8N6W0;P62995;Q14493;P14678;Q16560;P09661;Q995 90;Q99459;P33240;Q9UQ35;O75525;Q9H6T0;Q15696;Q15007;A6NG73;Q9Y5S9;Q8NCE0;Q8WVV9;Q129 96;Q9H2H8;Q9BWG6;O43251;Q9UNP9;P11442;O43791;Q9BZJ0;O75494;Q6IEG0;Q9NQ94;P67809;Q9NU K0;Q96DI7;Q69YN4;Q9NP77;O60508;Q09161;P42285;O15234;Q8NDT2;P52756}

13149 [Cluster 1196]GO:0048708+P biological\_process [name] astrocyte differentiation [def] "The process in which a relatively unspecialized cell acquires the specialized features of an astrocyte. An astrocyte is the most abundant type of glial cell. Astrocytes provide support for neurons and regulate the environment in which they function." [GOC]

13150 Pathogen[ Q2Q067] interacts with 3 human partners:{P40763;Q13144;P08397}

13151 Pathogen[ P0C214] interacts with 3 human partners:{P08397;Q13144;P40763}

13152 Pathogen[ P03346] interacts with 3 human partners:{O95096;Q13144;P40763}

13153 Pathogen[ Q85601] interacts with 3 human partners:{P40763;Q13144;P08397}

13154 Pathogen[ P14079] interacts with 2 human partners:{Q13144;P08397}

13155 Pathogen[ P03383] interacts with 2 human partners:{Q13144;P08397}

13156 Pathogen[ P03410] interacts with 3 human partners:{P08397;P40763;Q13144}

13157 Pathogen[ P14075] interacts with 2 human partners:{P08397;Q13144}

13158 Pathogen[ P0C206] interacts with 3 human partners:{Q13144;P40763;P08397}

13159 Pathogen[ P03363] interacts with 1 human partners:{Q13144}

13160 [Cluster 1197]GO:0006228+P biological\_process [name] UTP biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of UTP, uridine (5'-)triphosphate." [ISBN]

13161 Pathogen[ Q2Q067] interacts with 1 human partners:{P22392}

13162 Pathogen[ P0C214] interacts with 1 human partners:{P22392}

13163 Pathogen[ P03346] interacts with 1 human partners:{P22392}

13164 Pathogen[ Q85601] interacts with 1 human partners:{P22392}

13165 Pathogen[ P14079] interacts with 2 human partners:{P22392;Q86XW9}

13166 Pathogen[ P03383] interacts with 1 human partners:{P22392}

13167 Pathogen[ P03410] interacts with 1 human partners:{Q86XW9}

13168 Pathogen[ P14075] interacts with 1 human partners:{P22392}

13169 Pathogen[ P0C206] interacts with 2 human partners:{P22392;Q86XW9}

13170 Pathogen[ P03363] interacts with 1 human partners:{Q86XW9}

13171 [Cluster 1198]GO:0007281+P biological\_process [name] germ cell development [def] "The process whose specific outcome is the progression of an immature germ cell over time, from its formation to the mature structure (gamete). A germ cell is any reproductive cell in a multicellular organism." [GOC]

13172 Pathogen[ Q2Q067] interacts with 5 human partners:{P31749;Q86YF9;Q00597;Q9H9Z2;Q99717}

13173 Pathogen[ P0C214] interacts with 5 human partners:{Q00597;Q9H9Z2;Q99717;Q86YF9;P31749}

13174 Pathogen[ P03346] interacts with 11 human partners:{Q8NHU6;P07992;Q99717;O75626;Q86YF9;Q92879;P31749;Q00597;Q9H9Z2;O75398;Q9GZ V8}

13175 Pathogen[ Q85601] interacts with 7 human partners:{P31749;O75398;Q00597;Q99717;O75626;Q9H9Z2;Q86YF9}

13176 Pathogen[ P14079] interacts with 8 human partners:{O75626;Q8NHU6;Q00597;Q9H9Z2;Q86YF9;Q9GZV8;Q9Y236;P07992}

13177 Pathogen[ P03383] interacts with 5 human partners:{Q9H9Z2;P31749;Q99717;Q00597;Q86YF9}

13178 Pathogen[ P03410] interacts with 9 human partners:{P07992;Q8NHU6;Q99717;P31749;Q9GZV8;Q86YF9;Q00597;Q9H9Z2;O75626}

13179 Pathogen[ P14075] interacts with 5 human partners:{Q9H9Z2;Q99717;P31749;Q00597;Q86YF9}

13180 Pathogen[ P0C206] interacts with 9 human partners:{P31749;Q86YF9;Q99717;O75626;P07992;Q9H9Z2;Q00597;O75398;Q9GZV8}

13181 Pathogen[ P03363] interacts with 10 human partners:{Q8NHU6;Q00597;Q92879;Q92904;P31749;Q9H9Z2;O75398;Q86YF9;O75626;Q99717}

13182 [Cluster 1199]GO:0043105+P biological\_process [name] negative regulation of GTP cyclohydrolase I activity [def] "Any process that stops or reduces the activity of the enzyme GTP cyclohydrolase I." [GOC]

13183 Pathogen[ Q2Q067] interacts with 1 human partners:{P30047}

13184 Pathogen[ P0C214] interacts with 1 human partners:{P30047}

13185 Pathogen[ P03346] interacts with 1 human partners:{P30047}

13186 Pathogen[ Q85601] interacts with 1 human partners:{P30047}

13187 Pathogen[ P14079] interacts with 1 human partners:{P30047}

13188 Pathogen[ P03383] interacts with 1 human partners:{P30047}  
13189 Pathogen[ P03410] interacts with 1 human partners:{P30047}  
13190 Pathogen[ P14075] interacts with 1 human partners:{P30047}  
13191 Pathogen[ P0C206] interacts with 1 human partners:{P30047}  
13192 Pathogen[ P03363] interacts with 1 human partners:{P30047}  
13193 [Cluster 1200]GO:0048870+P biological\_process [name] cell motility [def] "Any process involved in the controlled self-propelled movement of a cell that results in translocation of the cell from one place to another." [GOC  
13194 Pathogen[ Q2Q067] interacts with 4 human partners:{P14921;P12755;Q8WUW1;P63000}  
13195 Pathogen[ P0C214] interacts with 5 human partners:{P63000;P14921;Q16658;P12755;Q8WUW1}  
13196 Pathogen[ P03346] interacts with 4 human partners:{Q8WUW1;P14921;Q16658;P63000}  
13197 Pathogen[ Q85601] interacts with 4 human partners:{P14921;P63000;Q8WUW1;P12755}  
13198 Pathogen[ P14079] interacts with 3 human partners:{P12755;Q16658;Q8WUW1}  
13199 Pathogen[ P03383] interacts with 2 human partners:{P14921;P63000}  
13200 Pathogen[ P03410] interacts with 5 human partners:{Q16658;P12755;P63000;Q8WUW1;P14921}  
13201 Pathogen[ P14075] interacts with 2 human partners:{P14921;P63000}  
13202 Pathogen[ P0C206] interacts with 5 human partners:{P14921;P12755;Q8WUW1;P63000;Q16658}  
13203 Pathogen[ P03363] interacts with 4 human partners:{P14921;P63000;Q8WUW1;Q16658}  
13204 [Cluster 1201]GO:0030382+P biological\_process [name] sperm mitochondrion organization [def] "A process that is carried out at the cellular level which results in the assembly, arrangement of constituent parts, or disassembly of sperm mitochondria\_ the process in which they take on their characteristic morphology\_ they are flattened, elongated, and arranged circumferentially into a tight helical coil around the tail-dense fibers of the mature sperm." [GOC  
13205 Pathogen[ Q2Q067] interacts with 1 human partners:{043236}  
13206 Pathogen[ P0C214] interacts with 1 human partners:{043236}  
13207 Pathogen[ P03346] interacts with 1 human partners:{043236}  
13208 Pathogen[ Q85601] interacts with 1 human partners:{043236}  
13209 Pathogen[ P14079] interacts with 1 human partners:{043236}  
13210 Pathogen[ P03383] interacts with 1 human partners:{043236}  
13211 Pathogen[ P03410] interacts with 1 human partners:{043236}  
13212 Pathogen[ P14075] interacts with 1 human partners:{043236}  
13213 Pathogen[ P0C206] interacts with 1 human partners:{043236}  
13214 Pathogen[ P03363] interacts with 1 human partners:{043236}  
13215 [Cluster 1202]GO:0030521+P biological\_process [name] androgen receptor signaling pathway [def] "Any series of molecular signals generated as a consequence of an androgen binding to its receptor." [GOC  
13216 Pathogen[ Q2Q067] interacts with 28 human partners:{Q96HR3;O75925;P06400;Q9NPJ6;P62826;Q15596;Q13772;Q93074;Q14192;Q9UER7;O75448;O60244;O75928;P48552;P78317;O14497;Q9UHV7;P24864;P50613;Q9NVC6;Q92993;Q15466;Q9Y2X0;Q05086;Q9Y2W1;P31689;P61586;Q9UBS8}  
13217 Pathogen[ P0C214] interacts with 27 human partners:{Q05086;Q92993;Q13772;O75925;O14497;P48552;P50613;Q9Y2X0;Q93074;P61586;Q96HR3;Q9NVC6;O60244;P78317;Q9UER7;Q9UBS8;Q14192;Q9UHV7;P62826;O75448;P24864;Q15596;Q9Y2W1;Q9NPJ6;P06400;Q15466;O75928}  
13218 Pathogen[ P03346] interacts with 28 human partners:{Q15788;Q9NPJ6;P06400;Q15466;Q96HR3;Q93074;P24864;O60244;P62826;O75448;O75925;Q15596;Q14192;O14497;Q9UER7;P31689;P78317;Q9UBS8;Q9NVC6;P48552;Q05086;Q92993;Q9Y2X0;Q9Y2W1;O75928;Q13772;Q9UHV7;P61586}  
13219 Pathogen[ Q85601] interacts with 28 human partners:{P78317;Q9Y2X0;O75928;P31689;Q15466;P06400;Q9UHV7;P62826;Q9UER7;O14497;O75448;Q15596;Q14192;Q13772;P61586;P50613;Q9UBS8;Q05086;P48552;Q92993;Q9Y2W1;O60244;Q96HR3;O75925;Q93074;Q9NPJ6;Q9NVC6;P24864}  
13220 Pathogen[ P14079] interacts with 29 human partners:{P48552;Q13772;O60244;Q9Y2X0;Q15596;O75928;Q14192;P24864;Q96HR3;Q9NVC6;O14497;O75448;P50613;Q9UER7;Q9UHV7;P61586;O43294;Q15788;Q9NPJ6;O75925;Q9UBS8;P31689;P78317;Q93074;Q969W9;P62826;Q15466;Q9Y2W1;Q92993}  
13221 Pathogen[ P03383] interacts with 27 human partners:{O75925;O14497;Q15596;O60244;Q9UBS8;P78317;Q92993;Q9NPJ6;P31689;Q93074;P06400;Q96HR3;P62826;O75448;P50613;P61586;Q14192;Q15466;Q9UER7;Q13772;P48552;Q9UHV7;Q9NVC6;P24864;Q9Y2W1;Q9Y2X0;O75928}  
13222 Pathogen[ P03410] interacts with 29 human partners:{Q9Y2W1;O75925;Q969W9;Q13772;O14497;Q9NVC6;Q9NPJ6;O75928;O43294;P06400;P50613;Q9UER7;P62826;P61586;Q9UBS8;P78317;Q15466;Q96HR3;Q15596;O60244;Q9UHV7;P31689;Q9Y2X0;Q93074;P48552;Q92993;P24864;O75448;Q14192}  
13223 Pathogen[ P14075] interacts with 27 human partners:{P31689;Q9NPJ6;Q96HR3;P50613;O75925;O75448;Q92993;O14497;Q93074;Q9UHV7;O60244;O75928;P62826;P78317;P61586;P06400;Q9NVC6;Q13772;Q9UBS8;P48552;Q15466;Q9UER7;Q9Y2W1;Q14192;Q9Y2X0;Q15596;P24864}  
13224 Pathogen[ P0C206] interacts with 29 human partners:{Q15466;Q96HR3;O75925;Q05086;Q9UER7;P62826;Q92993;Q9UHV7;P78317;P61586;O14497;P50613;Q9UBS8;Q9NPJ6;Q9Y2W1;O43294;O60244;Q15596;Q9NVC6;Q13772;Q14192;O75448;Q9Y2X0;P48552;P24864;Q15788;Q93074;P31689;P06400}

13225 Pathogen[ P03363] interacts with 22 human partners: {Q15466;P24864;Q96HR3;O14497;P78317;Q9UER7;Q15596;P06400;Q05086;P48552;Q9NV C6;Q9UHV7;O75925;Q93074;Q9UBS8;O75448;Q9NPJ6;O60244;P62826;Q92993;O75928;Q14192}

13226 [Cluster 1203]GO:0043525+P biological\_process [name] positive regulation of neuron apoptosis [def] "Any process that activates or increases the frequency, rate or extent of cell death of neurons by apoptosis." [GOC

13227 Pathogen[ Q2Q067] interacts with 8 human partners: {Q9BXH1;Q99933;Q13794;P55212;P15559;P42575;O00198;P18848}

13228 Pathogen[ POC214] interacts with 12 human partners: {O00198;P55212;Q13794;Q9BXH1;P18848;Q99933;P42574;P05412;P55210;P61081;P155 59;P42575}

13229 Pathogen[ P03346] interacts with 13 human partners: {P05412;P42575;P42574;P15559;P55212;P18848;O00198;Q92481;P55211;P55210;Q9BX H1;Q99933;Q13794}

13230 Pathogen[ Q85601] interacts with 9 human partners: {Q9BXH1;P18848;O00198;Q99933;P42575;P05412;P55212;Q13794;P55210}

13231 Pathogen[ P14079] interacts with 10 human partners: {P15559;Q9BXH1;P55212;Q15078;P55210;Q99933;Q13794;O00198;P42575;P05412}

13232 Pathogen[ P03383] interacts with 7 human partners: {P55212;Q99933;O00198;Q13794;P18848;Q9BXH1;P05412}

13233 Pathogen[ P03410] interacts with 10 human partners: {P15559;Q99933;Q9BXH1;O00198;P18848;P42575;Q13794;P05412;P55212;P55210}

13234 Pathogen[ P14075] interacts with 8 human partners: {Q99933;P05412;P55212;P15559;Q9BXH1;P18848;Q13794;O00198}

13235 Pathogen[ POC206] interacts with 11 human partners: {Q99933;P15559;P05412;P55212;Q9BXH1;O00198;P42574;P42575;P55210;P18848;Q137 94}

13236 Pathogen[ P03363] interacts with 9 human partners: {P18848;P61081;Q13794;O00198;P55212;P05412;P55210;Q9BXH1;Q99933}

13237 [Cluster 1204]GO:0001709+P biological\_process [name] cell fate determination [def] "A process involved in cell fate commitment. Once determination has taken place, a cell becomes committed to differentiate down a particular pathway regardless of its environment." [ISBN

13238 Pathogen[ Q2Q067] interacts with 3 human partners: {O43364;P23769;Q9NY43}

13239 Pathogen[ POC214] interacts with 2 human partners: {P23769;Q9NY43}

13240 Pathogen[ P03346] interacts with 4 human partners: {P23769;O43364;Q07820;Q9NY43}

13241 Pathogen[ Q85601] interacts with 3 human partners: {P23769;O43364;Q9NY43}

13242 Pathogen[ P14079] interacts with 3 human partners: {O43364;Q9NY43;P23769}

13243 Pathogen[ P03383] interacts with 2 human partners: {P23769;Q9NY43}

13244 Pathogen[ P03410] interacts with 3 human partners: {O43364;P23769;Q9NY43}

13245 Pathogen[ P14075] interacts with 2 human partners: {P23769;Q9NY43}

13246 Pathogen[ POC206] interacts with 3 human partners: {Q9NY43;P23769;O43364}

13247 Pathogen[ P03363] interacts with 3 human partners: {Q07820;O43364;Q9NY43}

13248 [Cluster 1205]GO:0032204+P biological\_process [name] regulation of telomere maintenance [def] "Any process that modulates the frequency, rate or extent of a process that affects and monitors the activity of telomeric proteins and the length of telomeric DNA." [GOC

13249 Pathogen[ Q2Q067] interacts with 1 human partners: {P01106}

13250 Pathogen[ POC214] interacts with 1 human partners: {P01106}

13251 Pathogen[ P03346] interacts with 1 human partners: {P01106}

13252 Pathogen[ Q85601] interacts with 1 human partners: {P01106}

13253 Pathogen[ P14079] interacts with 1 human partners: {P01106}

13254 Pathogen[ P03383] interacts with 1 human partners: {P01106}

13255 Pathogen[ P03410] interacts with 1 human partners: {P01106}

13256 Pathogen[ P14075] interacts with 1 human partners: {P01106}

13257 Pathogen[ POC206] interacts with 1 human partners: {P01106}

13258 Pathogen[ P03363] interacts with 1 human partners: {P01106}

13259 [Cluster 1206]GO:0006979+P biological\_process [name] response to oxidative stress [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of oxidative stress, a state often resulting from exposure to high levels of reactive oxygen species, e.g. superoxide anions, hydrogen peroxide (H2O2), and hydroxyl radicals." [GOC

13260 Pathogen[ Q2Q067] interacts with 21 human partners: {P04156;Q6XQN6;Q99497;P36639;P62324;Q06830;P04264;P15559;Q7LG56;O75306;O155 27;Q03468;O75475;Q13216;P19838;P20823;P28074;Q14872;Q99814;Q9H3M7;P23025}

13261 Pathogen[ POC214] interacts with 30 human partners: {P50440;O75306;Q8N573;O75874;P04264;Q14872;P56556;P19838;Q9H3M7;P23025;Q6XQ N6;Q99497;Q5SWA1;Q99807;Q06830;Q13216;Q9UJ68;Q16881;P28074;P36639;P62324;O75475;P041 56;P10909;Q99814;Q9UI09;O15527;Q7LG56;P15559;Q03468}

13262 Pathogen[ P03346] interacts with 25 human partners: {Q8N573;P28074;P07992;Q14872;O75475;P36639;Q5SWA1;P20823;P15559;O00151;Q6XQ N6;Q7LG56;Q03468;Q99814;Q13216;Q99497;Q06830;P04156;P23025;P19838;O75306;P62324;P042 64;O15527;Q9H3M7}

13263 Pathogen[ Q85601] interacts with 24 human partners: {Q99497;O15527;P23025;O75306;Q13216;Q14872;P62324;P36639;O00151;Q5SWA1;Q998

14;Q96FI4;Q6XQN6;Q03468;Q7LG56;P04264;Q06830;P04156;P28074;O75475;P19447;P19838;P20823;Q9H3M7}

13264 Pathogen[ P14079] interacts with 37 human partners: {Q8WWM9;Q8N573;Q99807;P56556;Q99814;Q5SWA1;P62324;P04156;P28074;O75475;O75306;P00395;Q99497;P10909;Q13216;O00151;O15527;P15559;P23025;Q7LG56;P36639;Q6XQN6;Q9Y6D0;Q9UI09;Q96FI4;Q14872;P03897;Q9H3M7;Q03468;P04264;O00244;P50440;Q9UJ68;P07992;P19447;Q6AZY7;Q14201}

13265 Pathogen[ P03383] interacts with 15 human partners: {Q13216;P62324;P04156;P36639;O15527;Q5SWA1;O75306;Q14872;Q03468;P23025;O75306;P04264;Q9H3M7;P28074;P19838}

13266 Pathogen[ P03410] interacts with 38 human partners: {P15559;O95168;P23025;P19838;Q96FI4;P56556;Q99497;P36639;P07992;Q99814;P04264;Q9UI09;Q9H3M7;Q03468;Q6XQN6;Q8WWM9;Q9UJ68;O15527;P62324;Q14872;P19447;Q5SWA1;P04156;Q13216;P03897;Q14201;Q9Y6D0;O75306;O75475;Q99807;O00151;P50440;Q6AZY7;Q8N573;Q7LG56;Q06830;P28074;P10909}

13267 Pathogen[ P14075] interacts with 19 human partners: {P23025;P62324;O75475;P36639;O15527;P04156;Q5SWA1;Q13216;P15559;O75306;Q03468;P28074;P04264;Q9Y6D0;Q9H3M7;P19838;Q6XQN6;P50440;Q14872}

13268 Pathogen[ P0C206] interacts with 35 human partners: {P62324;P36639;P04156;Q6XQN6;O15527;O75306;P04264;P15559;Q03468;Q7LG56;Q9UI09;Q99497;Q13216;P07992;O75475;P19447;P19838;P50440;Q9UJ68;Q99807;O00151;P20823;P10909;Q5SWA1;Q96FI4;Q14872;Q9H3M7;Q9Y6D0;P28074;Q8N573;Q99814;Q06830;P23025;P56556;Q8WWM9}

13269 Pathogen[ P03363] interacts with 17 human partners: {Q6XQN6;O15527;Q96FI4;Q9H3M7;P23025;O75475;P04156;Q14201;Q14872;Q13480;P62324;P19838;Q99814;Q03468;Q13216;P04264;P36639}

13270 [Cluster 1207]GO:0050860+P biological\_process [name] negative regulation of T cell receptor signaling pathway [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of signaling pathways initiated by the cross-linking of an antigen receptor on a T cell." [GOC]

13271 Pathogen[ Q2Q067] interacts with 4 human partners: {P04156;P57075;Q96IZ0;P32519}

13272 Pathogen[ P0C214] interacts with 4 human partners: {Q96IZ0;P32519;P57075;P04156}

13273 Pathogen[ P03346] interacts with 6 human partners: {Q9NRX4;P57075;Q96IZ0;P32519;P04156;Q9Y2R2}

13274 Pathogen[ Q85601] interacts with 4 human partners: {Q96IZ0;P32519;P57075;P04156}

13275 Pathogen[ P14079] interacts with 5 human partners: {Q9NRX4;P04156;P57075;P32519;Q96IZ0}

13276 Pathogen[ P03383] interacts with 3 human partners: {P04156;Q96IZ0;P32519}

13277 Pathogen[ P03410] interacts with 5 human partners: {P57075;P32519;Q9NRX4;Q96IZ0;P04156}

13278 Pathogen[ P14075] interacts with 3 human partners: {P04156;Q96IZ0;P32519}

13279 Pathogen[ P0C206] interacts with 6 human partners: {Q96IZ0;P04156;Q9NRX4;Q9Y2R2;P32519;P57075}

13280 Pathogen[ P03363] interacts with 5 human partners: {Q9Y2R2;Q96IZ0;P04156;P32519;P57075}

13281 [Cluster 1208]GO:0060766+P biological\_process [name] negative regulation of androgen receptor signaling pathway [def] "Any process that decreases the rate, frequency, or extent of the androgen receptor signaling pathway." [GOC]

13282 Pathogen[ Q2Q067] interacts with 5 human partners: {Q9NQ87;Q13547;O75928;P51532;P35232}

13283 Pathogen[ P0C214] interacts with 5 human partners: {Q13547;P35232;Q9NQ87;P51532;O75928}

13284 Pathogen[ P03346] interacts with 7 human partners: {P51532;O43680;Q13547;Q9NQ87;P35232;O75593;O75928}

13285 Pathogen[ Q85601] interacts with 5 human partners: {O75928;P51532;Q9NQ87;P35232;Q13547}

13286 Pathogen[ P14079] interacts with 4 human partners: {O75928;P51532;P35232;Q9NQ87}

13287 Pathogen[ P03383] interacts with 5 human partners: {Q9NQ87;P35232;Q13547;P51532;O75928}

13288 Pathogen[ P03410] interacts with 5 human partners: {Q9NQ87;O75928;P51532;Q13547;P35232}

13289 Pathogen[ P14075] interacts with 5 human partners: {P51532;Q9NQ87;Q13547;P35232;O75928}

13290 Pathogen[ P0C206] interacts with 4 human partners: {Q9NQ87;P51532;Q13547;P35232}

13291 Pathogen[ P03363] interacts with 5 human partners: {Q9NQ87;P51532;Q13547;P35232;O75928}

13292 [Cluster 1209]GO:0010922+P biological\_process [name] positive regulation of phosphatase activity [def] "Any process that increases the rate or frequency of phosphatase activity. Phosphatases catalyze the hydrolysis of phosphoric monoesters, releasing inorganic phosphate." [GOC]

13293 Pathogen[ Q2Q067] interacts with 1 human partners: {O43745}

13294 Pathogen[ P0C214] interacts with 1 human partners: {O43745}

13295 Pathogen[ P03346] interacts with 1 human partners: {O43745}

13296 Pathogen[ Q85601] interacts with 1 human partners: {O43745}

13297 Pathogen[ P14079] interacts with 1 human partners: {O43745}

13298 Pathogen[ P03383] interacts with 1 human partners: {O43745}

13299 Pathogen[ P03410] interacts with 1 human partners:{043745}

13300 Pathogen[ P14075] interacts with 1 human partners:{043745}

13301 Pathogen[ P0C206] interacts with 1 human partners:{043745}

13302 Pathogen[ P03363] interacts with 1 human partners:{043745}

13303 [Cluster 1210]GO:0045892+P biological\_process [name] negative regulation of transcription, DNA-dependent [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of cellular DNA-dependent transcription." [GOC

13304 Pathogen[ Q2Q067] interacts with 280 human partners:{P49454;Q9H4I2;Q9BYE7;Q13573;Q9NZI7;Q6VMQ6;Q8IXJ6;Q03989;Q9Y6X8;Q13185;Q9UPN9;P56524;P10827;Q9HAU4;Q9Y5V3;Q6NUN9;Q13033;Q9UQ80;Q9BRU2;Q9HBE1;Q63HK5;Q9Y3Q8;P06400;Q0D2K3;P29374;Q9NPF5;Q01094;Q9UKV0;Q9LW38;Q9NPI1;Q02447;Q2M1K9;Q04727;Q96T58;Q86YP4;P63210;P67809;Q13485;Q6IV72;Q9UNS1;Q9UI56;P13056;P31268;Q9UHF7;Q99816;Q9UBB5;Q15596;P48380;P35712;P41182;Q9Y2X9;Q86VX2;P10828;Q01664;P18847;P51531;P41970;Q8WXF8;Q9BW11;Q9NQ87;Q15697;Q9NZL3;Q96004;Q43439;Q01105;P37275;Q05516;Q32MZ4;P20749;Q9NVW2;Q00257;Q04206;Q13547;Q9UIS9;P55345;Q99684;Q9UDV7;Q96AQ6;Q94776;Q15379;P41134;Q14192;Q9NQX1;Q9UER7;Q9UNL4;Q9Y2G9;Q6S9J6;Q96ST3;P35638;Q9NPI1;Q02447;Q2M1K9;Q04727;Q96T58;Q86YP4;P63279;Q75362;Q9ULJ3;Q8TBE0;P17676;Q53H80;Q96MH2;Q9NYF8;P11473;Q99471;Q96RJ6;Q75182;Q8NDT2;Q8N5F7;Q95416;Q9H7S9;Q6NT76;Q00577;Q96BF6;Q9UJW3;P78545;P63165;Q9NS37;Q9BQ0;Q15723;Q9UBC3;Q08050;P11142;Q75381;Q9UKL0;Q95521;Q5TB30;P27797;Q9UQL6;Q8N5P1;Q9Y3M2;Q99549;Q43593;Q9Y297;Q99966;Q96SR6;P54253;Q94992;P35548;Q5VWM6;Q6W2J9;Q75582;Q9UGP4;Q96S8;P26358;Q75618;Q96MT3;Q07666;Q9UKY1;Q96T37;Q96SZ4;Q969G3;P10914;Q9ULM3;P16383;Q92769;Q9H091;Q00255;Q15105;Q43251;Q06330;Q75496;P14859;Q8IZ40;Q13127;Q9HCU9;Q9HD42;Q9H116;Q53EL6;Q96E29;Q12906;Q719H9;P51532;Q15742;Q5VWM5;P86452;Q8WVJ9;Q15164;Q13506;Q75530;Q9Y6B2;Q96QR8;Q14865;Q92993;Q5SWL7;Q8WUI4;Q9P0J0;Q4VCO5;P55055;P12956;Q15796;Q9BT49;Q75164;Q04725;Q9H6W3;Q96T23;Q13363;Q86X95;Q9H7L9;Q8NPF8;Q9NYW8;P19838;Q96RU7;P78395;P20823;P61201;Q9Y2P7;Q75346;Q14529;Q9Y543;Q8IXH7;Q96QT6;Q9BZK7;Q15545;Q9UID6;P27348;P31946;Q13901;P42771;P17096;Q04724;Q99623;P80723;Q9Y5J3;Q9HCK8;P47928;Q9NP71;Q8N693;Q8TAQ2;Q96RE7;Q86U70;Q14582;Q5TGS1;Q9NSC2;Q9GZX5;Q9H2F5;Q96MN9;Q9BQA5;P13010;P35232;P49593;Q8N6I1;P45973;P55771;Q16576;Q8IY57;P23497;P46527;P10242;Q8NB12;Q14978;Q60810;P06733;P15834;Q60809;Q75376;Q9Y468;P49711;Q8N5A5;P83916;Q00987;Q14602;Q14781;Q9UQR1;P49571;P49918;Q15392;Q06587;Q96RL1;P23409;Q9BT81;Q9P1T7;P17014;P49715;Q03112;P17947;P17028;Q8WX92;P15822;Q8N2W9;P33076}

13305 Pathogen[ P0C214] interacts with 279 human partners:{P41970;Q9Y3Q8;Q9UGP4;Q92993;Q15742;Q9BW11;Q03989;Q8WX92;Q9NS37;Q14529;Q9UID6;Q96T58;Q15697;Q04727;Q9HAU4;Q8WXF8;Q9Y5V3;Q13573;Q9BRU2;Q9BT49;Q5TYX0;Q13363;Q9Y2G9;Q9UHF7;Q13547;Q14865;Q5SWL7;Q6VMQ6;P19838;Q8N5A5;Q969S8;P13010;P54253;Q96QR8;Q5TB30;P27348;Q00987;Q8N693;P33076;Q75618;Q9HBE1;A6NGN4;Q8N2W9;Q03112;P83916;Q75530;Q75496;Q8N5F7;Q9HD42;Q75362;Q9BQ0;Q9Y5J3;P35711;P67809;Q13033;P61201;Q8NPF8;Q96QT6;Q12906;P17096;P17947;P46527;P56524;Q6W2J9;Q99623;Q6NT76;Q96SR6;Q53EL6;Q96MN9;Q04206;Q9UNL4;Q2M1K9;Q63HK5;Q53H80;P63279;P37275;P10914;Q16666;Q75381;Q06330;Q15910;Q32MZ4;P78395;Q60813;Q75164;P55345;Q04724;Q9H091;Q13901;Q9Y297;Q9Y468;Q15545;Q00308;Q9BT81;Q96SZ4;Q6IV72;Q8TBE0;Q8TAQ2;Q9H2F5;Q8N6I1;Q96MT3;Q9GZX5;Q60810;Q9H4I2;P17676;Q01105;Q9H0M0;P86452;Q5VWM6;Q5VTA0;Q96BF6;Q9NZI7;Q14503;P13056;Q9UIS9;Q99966;Q01094;Q9ULJ3;Q13506;Q15834;Q969G3;Q43439;P47928;P41134;Q95416;Q96MH2;Q9UER7;Q94776;Q07666;P63165;Q06587;Q00577;P17014;Q9P0J0;Q9Y3M2;Q99549;P49918;Q86U70;Q9Y543;Q96RJ6;Q9UKL0;P26358;Q9Y6B2;Q9NVW2;Q8IZ40;Q86YP4;Q13485;Q9H6W3;P18847;Q9NYW8;Q9BYE7;Q92769;Q15105;Q9UH92;P20749;Q9HAZ2;P17028;P16383;Q9UKV0;Q9HCU9;Q8WW38;Q00257;Q9UNS1;Q96E29;Q9HCK8;Q13185;Q16576;Q15226;Q75376;Q15796;P42771;Q9NSC2;Q14192;Q43593;P41182;Q9Y6X8;Q9NP71;Q15379;P06733;Q96RL1;Q9P1T7;Q13127;Q75346;Q96AQ6;Q9Y2X9;Q75582;P10242;P23497;Q94992;Q99816;Q15392;Q05412;Q8WVJ9;P49711;Q14781;Q04781;Q96RU7;Q719H9;Q15164;Q9NPI1;Q96T23;Q9NQX1;P27797;Q96JB3;Q04725;Q9UDV7;Q99471;Q9BZK7;Q8IXJ6;Q96ST3;P45973;P49593;Q14978;Q0D2K3;Q9UI56;Q8IXH7;P80723;Q96004;Q14602;Q8NDT2;P48380;P78545;Q99684;Q6NUN9;Q86VX2;Q9BQA5;Q9UQR1;Q9UBB5;P10828;Q15596;Q8WUI4;Q43251;P35232;Q9NQ87;Q5VWM5;Q5SWL8;P31946;Q95521;P51531;Q5VXH4;Q8NB12;P49454;Q9UQR1;Q96RE7;Q9NZL3;Q9NQ87;Q01664;Q9UPN9;P15822;P14859;Q86X95;Q5VWM1;Q9Y2P7;Q5TGS1;P35712;Q9ULM3;Q9UQL6;P06400;Q4VCO5;P35548;Q96T37;Q05516;P12956;Q00255;P35638;Q9H7S9;Q9NPF5;P51532;Q9NYF8;Q6S9J6;Q96LA8;Q8IY57;Q15723;Q75182;Q9UJW3;Q9H7L9;P11142;Q9H116;P55771}

13306 Pathogen[ P03346] interacts with 327 human partners:{Q15723;Q06330;P85037;Q6S9J6;Q14781;Q969S8;Q9BZE0;Q96ST3;Q9UPN9;Q03989;P05412;Q9Y467;Q9UHF7;Q13263;Q96QR8;Q16666;Q9NQX1;P10827;P11473;Q86U70;P31268;P45973;Q9HAU4;P86452;P12956;Q99966;Q9UGP4;Q9BRU2;P18847;Q15834;Q9H091;P29374;P58012;Q8IXH7;Q8WYB5;Q9H116;Q15392;Q9UQR1;Q75362;Q9UKL0;Q9BQ0;Q9Y2P7;P17676;Q14901;Q9UNL4;Q4VCO5;Q5VWM5;Q9Y3M2;P35638;P35548;Q02535;Q8WW38;Q75530;Q86VX2;Q9UQ80;Q15379;Q9NQ87;Q99471;Q8NFW5;P06400;Q9HD42;P51532;Q00577;Q96SZ4;Q8WXF8;Q9Y3Q8;Q96AQ6;Q01105;Q15911;Q2M1K9;Q32MZ4;Q8N693;P80723;Q14978;P14859;Q9NSC2;P48380;P20264;Q15796;Q9BW11;P56524;P13010;Q9UNL4;Q96QT6;Q9NPI1;P23409;Q8N5A5;P27348;Q04206;Q8IZ40;P33076;Q53H80;Q99816;Q12906;Q94776;Q9ULJ3;P13056;Q9NQ69;P11142;Q8IXJ6;Q9ULM3;Q63HK5;Q5TB30;Q08050;Q9UDV7;Q9BYE7;Q96RL1;Q9UBC3;Q9P2Y4;P63279;Q00257;Q9NP08;P26358;P20823;Q96RE7;P49918;Q15105;Q9UBX0;P17014;Q43316;P42771;Q8N5F7;P49593;Q00409;Q96RJ6;Q60810;Q01094;Q01094;P17096;Q9Y5J3;Q75182;Q9NYW8;Q60809;Q00987;Q15534;Q14503;P06733;Q96MT3;Q75381;Q43593;Q96004;P51843;Q96MN9;Q9NP71;Q07666;Q9BT49;Q14582;Q92794;Q15742;Q9HCS4;P10242;Q9UIS9;Q5VTA0;Q8NDT2;P51397;Q13033;P67809;Q15596;Q9UNH7;Q00255;P78395;Q95863;P10914;Q6VMQ6;Q96GD3;P41134;Q9H4I2;Q86YP4;Q9684;Q92769;Q9Y2G9;Q14192;Q04725;Q75164;Q9HCU9;Q13547;Q03112;Q96E29;Q04724;Q9HCK8;P48059;Q13506;P63165;Q7Z4V0;Q8WVJ9;P55345;P49711;Q75618;Q9Y6X8;P84550;Q9H7S9;Q8NB12;Q75346;Q9UER7;P37275;Q8N6I1;Q9NQ87;Q9H2F5;Q96BF6;Q43439;Q12778;Q96T23;Q16576;Q8WUI4;Q75582;Q8NPF8;Q43251;P16383;Q5TGS1;Q75376;Q9Y5V3;Q9Y468;Q8N2W9;Q14190;Q148

65;P35713;Q15910;Q96T58;O75469;Q9HBE1;P27797;P41182;Q8N5P1;Q96RU7;P17028;Q8WX92;Q05516;P20749;Q92481;P61201;Q969G3;P31946;P35712;Q9UKV0;Q9H7Z6;Q9BZK7;Q99623;Q04727;P41970;P10828;Q9UGL1;P17947;Q9Y543;Q99549;Q13363;P83916;Q9GZX5;Q9Y6B2;A9YTQ3;O94992;Q9H7L9;Q9UI56;P35232;Q96MH2;O15226;P19838;P23497;Q13485;Q0D2K3;Q8TBE0;P56545;Q9UKY1;P54253;Q9H0M0;Q9Y2X9;Q9P1T7;Q92993;Q9UH92;Q13573;Q9UID6;Q15697;P51531;Q9P0J0;Q6NUN9;Q9Y458;Q86X95;P78545;Q9NZL3;Q9H6W3;Q15545;Q8IY57;Q5SWL8;O95521;Q9HAZ2;Q6IV72;Q6VWM1;Q6NT76;Q9NYF8;P46527;Q14602;P35711;Q5VVM6;Q9Y297;Q9TAQ2;Q9NS37;Q95343;P15822;Q06587;Q02447;Q9UBB5;Q01664;Q96SR6;Q13185;Q9UQL6;O15164;Q96T37;Q53EL6;O95416;O14529;P55055;Q6W2J9;Q9BT81;Q96LA8;Q9NZI7;Q13901;Q9NVW2;P49454;O75496;Q13127;Q96JB3;P47928;Q9UJW3;Q5SWL7;O00308;Q9BQA5;Q9NPF5;P55771}

13307 Pathogen[ Q85601] interacts with 292 human

partners: {Q9UQR1;Q969S8;Q99816;Q9UPN9;O75182;Q96MH2;Q03989;P49454;O75496;Q9UHF7;Q9UKV0;Q96QR8;Q9H2F5;P17676;Q16666;P11473;Q96SZ4;P83916;Q9P0J0;O14529;P33076;Q9HAU4;Q9BT49;P31946;Q96JB3;Q9ULJ3;Q13127;O43316;Q9BRU2;P17096;Q96SR6;P41134;Q15834;Q96RL1;Q07666;P17028;O15534;Q9UQ80;Q9BQG0;O94776;Q04724;P86452;Q9UQL6;Q8NB12;Q8TBE0;Q9Y3M2;Q86U70;Q8WW38;Q9UJW3;Q5VTA0;Q9NQR1;Q99471;P06400;Q06330;Q96QT6;Q96BF6;Q9H7S9;P49593;Q96T23;Q8N5F7;Q9Y3Q8;Q01105;O60813;Q13573;Q9H116;Q2M1K9;Q99966;P15822;Q13506;O14978;Q03112;P14859;Q9Y468;P61201;P41970;P78545;O60810;Q9Y2X9;Q6NUN9;Q9UER7;Q15545;Q8N5A5;Q15723;Q9H7Z6;Q9UNL4;O14503;P35712;P06733;Q5TB30;P10242;O15392;P27797;P16383;O15226;Q13363;P26358;Q5SWL7;Q99549;P17014;Q8N2W9;O15164;O43439;Q15742;Q6NT76;Q15596;O96004;P80723;Q9NP71;P55055;P49711;Q9UID6;P63279;Q9NYW8;Q8WX92;P10914;Q99623;Q9H6W3;Q9UH92;Q96MT3;P55771;Q5VXH4;P51531;Q8N6I1;Q13263;Q53H80;Q9GZX5;Q9H4I2;P23409;Q9Y6B2;Q04725;Q8NFJ8;Q00577;Q9NQX1;P51532;Q9UIS9;Q9UBX0;Q8NDT2;Q969G3;Q13901;Q96MN9;Q14582;Q8IXJ6;P18847;Q12906;Q5TGS1;Q9UDV7;Q86YP4;O95416;P35711;Q92769;Q04206;P45973;Q16576;Q9UJW3;Q9HCU9;Q9NZL3;Q9Y5V3;Q04727;P27348;Q6SJ96;Q96E29;Q14192;P11142;O75618;Q9Y6X8;P35548;O75346;O75530;Q8WJF8;P05412;Q9Y543;Q9NQ87;Q9BYE7;Q00255;P67809;P42771;Q75376;Q13185;O75582;Q14865;A9YTQ3;Q53EL6;Q13033;Q32MZ4;P10827;Q96T58;Q8N693;Q02447;O94992;Q99684;P48059;Q96RU7;Q8N5P1;Q0D2K3;Q05516;Q9BQA5;Q9NPI1;Q9HCK8;P49715;Q9UGP4;P63165;P49918;P37275;Q96RJ6;Q8IXH7;Q9BZK7;P56524;O15379;Q96RE7;P17947;Q15910;Q08050;O75164;P35232;O15105;Q96T37;Q9BW11;Q13547;Q9UKY1;O75362;Q5TYX0;P54253;Q86VX2;P13056;Q9NSC2;Q92993;P10828;P41182;Q9P1T7;Q8IZ40;Q9NS37;Q15697;Q8WUI4;Q9Y2P7;P48380;Q9HCS4;P45393;Q6VMQ6;Q5VVM5;O00257;Q8IY57;Q5SWL8;O75381;Q6IV72;Q5VWM1;Q63HK5;Q00987;Q9H7L9;Q14602;Q5VVM6;P19838;P20823;Q8TAQ2;Q9UKL0;Q13485;Q9UNH7;P78395;Q06587;Q9H091;Q9UBB5;Q9HD42;Q01664;Q96AQ6;P20749;Q9BT81;A6NGN4;Q9Y2G9;Q01094;Q9NZI7;Q86X95;Q9NYF8;Q9NVW2;Q9Y5J3;Q96LA8;Q8WVJ9;Q15796;P13010;P12956;Q719H9;P47928;Q9UBC3;P46527;Q5VT98;Q6W2J9;P55345;Q9HBE1;P35638;Q9NPF5;Q9HAZ2;Q14781;Q96ST3;Q9UN51}

13308 Pathogen[ P14079] interacts with 293 human

partners: {Q9UQL6;Q9UQR1;O15379;Q8N2W9;Q9BW11;Q04725;P35711;Q99623;Q9NQX1;Q9NPI1;Q01105;P13056;O15164;Q9HAZ2;O75346;Q9UNH7;P16383;P33076;Q96RJ6;Q96T23;O75618;Q13506;Q53H80;P55055;O95416;P11142;P63279;Q9BZK7;Q96T37;Q9UIS9;O60811;Q8N693;Q15596;P49593;Q9BT81;P14859;P61201;Q96LA8;A3QZ6;P23409;Q14192;Q5VXH5;Q8IXH7;Q15911;Q96QR8;O75362;Q15723;P67809;Q4VC05;O43439;P11473;P13010;Q96ST3;O75582;P10828;Q6NUN9;Q13033;Q9UBB5;Q99549;Q9UI56;Q9P2Y4;Q9Y468;Q969S8;P55771;Q8WUI4;Q13901;Q86U70;Q8N5A5;Q12906;Q96SR6;P17096;P48380;P51532;Q5SWL7;Q9UNL4;Q9GZX5;Q15742;Q14865;Q99684;O15392;P35712;Q9UID6;Q8WVJ9;Q99966;P51531;Q9UKV0;Q05516;Q96004;Q9HD42;Q13573;Q02447;Q15232;Q5VVM3;Q32MZ4;Q5VT98;Q8TAQ2;Q86YP4;Q9Y2P7;P49918;Q9Y3Q8;Q96E29;P63165;Q96SZ4;Q9BQA5;Q9NS37;Q9HAU4;P54253;Q9UJW3;P06733;Q9NYW8;P10827;A6NGN4;Q03989;P23497;Q16576;Q719H9;Q96MN9;Q00987;Q9NYF8;Q15078;Q9UKY1;Q5TYX0;Q6WJ29;P45973;Q6NT76;Q06330;Q9H6W3;Q86VX2;Q9NZI7;Q9NZL3;P12956;P55345;Q96QT6;Q9Y5V3;P41182;Q5VVM6;A6NMV5;Q13185;Q6VMQ6;Q9UBC3;O00257;Q14781;O75530;Q9UPN9;Q9UJW3;Q9UER7;Q95521;Q9NPF5;Q92769;Q8IY57;P29374;Q5VVM5;O95522;P31946;Q5VTA0;P49715;Q07666;O60809;O75469;Q2M1K9;Q9BQG0;Q9BYE7;Q9NQR1;Q8NB12;Q9Y5J3;Q96BF6;Q15697;P27348;O14978;Q5VVM4;Q9Y2X9;Q5TGS1;A9YTQ3;P26358;Q96AQ6;Q01664;Q9HCK8;Q9P0J0;P15822;Q15834;Q5TB30;O94992;Q9UKL0;Q9H091;Q96RL1;Q8IU54;P35638;Q9H2F5;Q9UDV7;Q6SJJ9;Q9UH92;Q00577;Q96RE7;Q9HCU9;Q96RU7;Q8IXJ6;Q8WX92;Q5SWL8;Q8N5P1;Q0D2K3;O60813;Q04724;Q9Y3M2;P20749;O75182;Q14602;O75376;O14529;Q63HK5;P17014;P46527;Q9P1T7;Q8WJF8;P78545;P41134;P78395;P49454;P51397;O75381;Q9NS86;O15226;Q15910;Q9NQ87;P80723;Q9H7S9;A6NMC2;Q99471;O14503;Q5VXH4;Q9BT49;P05412;P83916;Q9Y6B2;Q8IZ40;P10242;P56524;Q9H7L9;Q13127;Q99816;Q9H4I2;P28360;O15105;Q5VVM1;P48059;O14901;Q9Y6X8;Q9UQ80;Q14582;Q96MH2;O94726;Q9UN51;Q01094;Q86X95;Q96MT3;P86452;O00255;Q8N6I1;Q9BRU2;Q9NP71;O60810;O43593;Q9BZEO;Q9HBE1;Q8NDT2;Q9UHF7;P41970;P49711;O75496;Q8WJF8;Q04727;Q8WW38;P47928;P37275;Q9UGP4;Q9Y2G9;Q9NSC2;Q6IV72;P10914;Q9ULJ3;O15534;Q92993;Q16666;Q9H116;Q96T58;Q53EL6;Q5TYW8;Q8TBE0;Q15545;P42771;P17028;Q06587;Q8N5F7}

13309 Pathogen[ P03383] interacts with 245 human

partners: {Q9UQR1;Q96MH2;Q9UN51;Q13573;Q06330;Q15723;Q9BQG0;O75182;Q719H9;P49454;P10914;Q9NYW8;Q32MZ4;Q53EL6;Q9UH92;Q5TYX0;Q0D2K3;O75582;P35712;Q01105;Q13485;Q96SZ4;P33076;O60809;P13010;Q9UJW3;P17096;Q9BRU2;Q9Y2P7;Q9H4I2;Q9HBE1;Q8N6I1;O94776;P49711;Q15596;Q01094;P55771;O75376;Q8WVJ9;Q9UQL6;Q4VC05;Q96RL1;P31946;Q8WW38;Q86YP4;Q86U70;Q04727;Q6NT76;Q9UJW3;Q9UPN9;O75362;P14859;Q8N5F7;Q96AQ6;O75618;Q9H7L9;P18847;P20749;O00257;P61201;P48380;P37275;Q9Y3Q8;Q96MT3;Q9NQ87;O60810;Q9H2F5;Q06587;Q15742;Q6VMQ6;P35638;Q99816;Q9UNL4;O14503;Q96QT6;Q9BYE7;Q92993;Q05516;Q9GZX5;Q8N693;Q96T23;Q8N2W9;Q04724;Q9H6W3;Q9NQX1;P06400;Q9UBB5;Q9NP71;Q01664;O75164;P17014;P83916;Q5SWL7;Q9HAZ2;Q6W2J9;Q53H80;Q13506;O96004;P11473;O15105;Q99549;Q03112;O14978;Q8IXH7;Q13185;P86452;P45973;Q9UID6;Q969G3;Q9Y6B2;P35548;Q96MN9;Q02447;Q14192;P46527;Q9NPF5;Q9BQA5;Q92769;Q9UGP4;P17676;Q04725;Q9HCU9;P78395;Q9Y5V3;Q9NYF8;Q6SJJ9;Q6IY96;Q9NSC2;O75381;P63165;Q9ULJ3;Q6IV72;Q8N5A5;Q99471;P35711;Q15697;Q9Y6X8;Q8IZ40;P51531;P15822;O15379;Q9UER7;Q9Y3M2;O00255;P11142;O60813;Q16666;Q07666;Q96RE7;Q9H7S9;Q8TAQ2;P35232;Q9HD42;Q5VXH4;O949



92;P42771;Q96T58;Q99684;Q13547;Q9UI56;Q12906;Q96RU7;Q9UKL0;P54253;P10242;P23497;Q9H16;Q9HCK8;Q8WXF8;Q9UQ80;Q9UKV0;Q9NZI7;P49918;Q15796;Q9BZK7;P56524;P41970;Q00577;Q15910;Q04206;P78545;Q6NUN9;Q8IY57;Q5VWM6;P51532;Q96SR6;Q14602;P80723;Q9NPI1;Q8NDT2;Q96ST3;Q9Y2G9;Q8TBE0;P51397;Q86VX2;Q5TGS1;Q9Y2X9;Q9P1T7;Q13033;P10828;P16383;Q9NS37;P47928;Q2M1K9;Q8WUI4;Q86X95;Q9NZL3;Q5VWM5;Q9P0J0;Q15545;P06733;P19838;Q96QR8;P17028;P67809;P13056;Q9UHF7;Q43439;Q15834;Q9H091;Q9NQR1;Q75346;Q9BT49;P26358;P17947;P63279;Q95521;Q96LA8;Q15226;Q13363;Q16576;Q13901;Q99623;Q969S8;Q8WX92;Q9UIS9;Q9Y468;Q75496;P12956;Q13127;Q75530;P27797;Q14781;P05412;P27348}

13310

Pathogen[ P03410] interacts with 291 human

partners: {Q96RL1;Q9Y2P7;Q96AQ6;P20749;Q9Y5J3;Q9UKV0;Q9UHF7;Q96QT6;Q04206;Q96JB3;Q14901;Q15392;Q9NS86;P35712;Q5TB30;Q8IXJ6;P42771;Q9UI56;Q96BF6;P23409;Q9H6W3;Q43439;Q9NS37;Q8WXF8;P19838;P46527;Q9NYW8;Q03112;P29374;Q9NZL3;Q16666;Q9UDV7;P35638;Q96LA8;Q15697;Q96T23;Q4VC05;Q5VWM4;Q5SWL7;Q6W2J9;Q5VXH5;P37275;Q8WVJ9;Q9HAZ2;Q06896;P15822;Q5SWL8;Q9Y2G9;Q96004;P17676;Q96SZ4;Q9H4I2;P18847;Q02447;P63165;P17947;Q06330;Q99549;A6NGN4;Q5TYW8;Q60811;A9YTQ3;Q9BQA5;Q9BYE7;Q03989;Q9NQ87;Q9UQ80;Q5VWM1;Q9Y3M2;Q8N6I1;Q9UGP4;P10242;Q9NPF5;P14859;Q75582;P27348;P78545;Q9UNL4;P06733;Q9Y543;Q75182;Q9ULJ3;Q60813;Q04724;Q9UBB5;Q96T37;Q9BRU2;P11142;Q2M1K9;P41134;P17096;Q9Y3Q8;Q8N2W9;P45973;Q9Y468;Q86YP4;Q01105;P10828;Q9BT49;Q32MZ4;Q75381;P06400;Q60809;Q9H116;Q9ULM3;Q75376;Q99684;A3QJZ6;Q5VWM6;Q86VX2;Q96ST3;Q95521;Q96T58;Q8WW38;Q0D2K3;Q00577;Q15226;Q07666;Q6IV72;Q96SR6;Q6VMQ6;Q8WUI4;Q16576;P49454;Q9UQR1;P11473;Q9UQL6;Q9H2F5;Q9BW11;Q9UNH7;Q96MN9;P26358;P67809;Q99816;Q13127;Q9Y2X9;P12956;Q5VWM5;Q99471;P35548;Q969S8;Q719H9;Q60810;Q6NUN9;Q8IXH7;Q8IY57;Q8WX92;Q969G3;Q99623;Q9P1T7;Q9UER7;P51397;Q92769;Q9Y6B2;Q8N5A5;Q5TGS1;P17028;Q6SJ96;P78395;Q9NQR1;Q9HD42;Q75362;Q15379;P56524;P17014;Q5VT98;Q13033;Q86U70;Q9NP71;Q14602;Q15534;P47928;P48380;Q13485;P10914;Q04727;Q9H7L9;Q8NDT2;Q8TBE0;Q9HCK8;Q53EL6;Q8N5P1;Q15834;P86452;Q9Y6X8;Q5VXH4;Q8NPF8;Q53H80;Q6GZX5;P55771;Q13185;Q15910;P41182;P51532;Q9BQG0;Q75346;P48059;P05412;Q86X95;P49711;Q15105;Q9UBC3;Q15596;P61201;Q96RU7;P51531;Q13901;Q15742;Q9Y5V3;Q9UIS9;Q9UNSL;Q94776;Q9HCS4;Q13547;Q01664;Q75496;A6NMC2;Q01094;Q8NB12;Q8TAQ2;P13010;Q14978;P63279;P49593;Q95522;P83916;P41970;P80723;Q9BZK7;Q9H091;Q06587;Q8IZ40;Q96RE7;Q9NYF8;Q9H7S9;Q00987;Q9UJW3;P49918;Q63HK5;Q8N693;Q9UH92;Q00257;Q9P0J0;Q9UKL0;Q75618;Q9NZI7;Q14781;P54253;Q14582;Q96QR8;Q9NSC2;P35232;Q9UID6;A6NMV5;Q75164;Q96E29;Q96MT3;Q9BT81;Q14865;Q5VTA0;Q95416;P16383;Q00255;Q15796;Q9NQX1;Q92993;Q15723;Q9UKY1;Q94992;P33076;Q12906;Q5TYX0;Q14192;Q5VWM3;Q15545;Q9NPI1;Q9UPN9;Q43593;P31946;Q9HBE1;Q13506;Q13573;Q96MH2;P55345;Q75530;Q96RJ6;Q04725;P13056;Q99966;P27797;Q14529}

13311

Pathogen[ P14075] interacts with 245 human

partners: {Q04727;Q5VWM1;Q9NZL3;Q14781;P06733;Q96AQ6;Q5SWL7;Q96ST3;Q9NSC2;Q16576;P63165;Q96QR8;P54253;Q14602;Q96MT3;Q86U70;Q86X95;P23497;Q9H2F5;P12956;P11142;Q9BRU2;Q04206;Q9H4I2;Q13573;Q5TGS1;Q969S8;Q96QT6;Q9UQR1;Q9NPI1;P05412;Q04725;Q9BQA5;Q60809;Q8IY57;P14859;P10828;Q13506;P78545;P78395;Q15697;P51532;Q07666;Q96SZ4;Q8N5F7;Q0D2K3;Q75582;P80723;Q9H6H2;Q9H116;Q13901;Q75362;Q6NUN9;Q9UKL0;Q96T58;P18847;Q9Y468;P61201;Q9UGP4;P48380;P35548;Q5VXH4;P17096;P56524;Q60813;Q08050;Q9UJW3;Q9NYW8;Q9P1T7;Q95521;P42771;P33076;Q9UH92;Q53H80;Q15226;Q94776;Q9NQR1;P35638;Q719H9;P15822;P47928;Q15910;Q12906;Q9H091;P45973;Q9UKV0;Q8WW38;Q9BT49;Q8N2W9;Q9UBB5;Q9NZI7;P63279;P10242;Q16666;Q15796;Q01105;Q9NQ87;Q9NYF8;Q9ULJ3;Q9BYE7;Q75182;Q13547;P26358;Q6SJ96;P13056;Q8WVJ9;Q92993;Q14583;Q75376;P46527;Q9HAZ2;Q75381;Q8N5A5;P35711;Q00257;Q6S004;Q6MNN9;Q13485;P35232;Q94992;Q00255;Q9NP71;Q9NPF5;Q06587;Q9BQG0;Q75618;P51397;Q9NQX1;P49918;Q01664;Q96LA8;Q96RE7;Q9Y6B2;Q6W2J9;Q99684;Q8N693;Q92769;Q99623;Q15834;P35712;Q9HCU9;Q13185;P86452;P55771;Q6VMQ6;Q96E29;Q9UIS9;Q9HCK8;Q9UPN9;Q9UHF7;Q8N6I1;Q9ULM3;P27797;Q15723;P51531;P11473;Q5VWM5;Q9Y6X8;Q9H6W3;Q6IV72;Q5TYX0;Q8WXF8;P17947;Q8TBE0;Q8TAQ2;P67809;Q15545;Q86VX2;Q53EL6;Q99549;Q01094;Q14978;Q15105;P06400;P83916;Q03112;P27348;P17028;Q15742;Q06330;Q9Y2G9;Q9UQ80;Q96RU7;Q15379;Q8NDT2;Q9UNL4;Q02447;Q9Y2X9;P49711;Q9BZK7;Q96T23;Q00577;Q9UNSL;P16383;Q13127;Q9HD42;Q32MZ4;Q9Y2P7;Q43439;Q05516;Q4VC05;P19838;Q9UQL6;Q04724;Q9Y3Q8;Q60810;P31946;Q5VWM6;Q13363;P13010;P41970;Q9UER7;Q99816;Q9Y3M2;Q9H7S9;P17676;P37275;Q8WUI4;Q8IXH7;Q2M1K9;Q75496;P10914;Q5VTA0;Q9Y5V3;P49454;Q9GZX5;Q13033;Q96RL1;Q9P0J0;Q99471;Q9NS37;Q6MT76;Q14192;Q9UI56;Q8IZ40;Q9H7L9;Q75346;Q75164;Q15596;P20749;Q86YP4;Q75530;Q8WX92;Q9HBE1}

13312

Pathogen[ P0C206] interacts with 310 human

partners: {Q9UID6;Q9UNSL;P06733;Q6NUN9;Q9Y468;Q15723;Q9HCU9;Q9NQX1;Q9Y2X9;P67809;Q9NQ87;P10914;Q92769;Q9BZE0;Q75530;Q8IXH7;P16383;Q9HCK8;Q96T37;P13010;P45973;A3QJZ6;Q96ST3;Q15545;Q9H2F5;Q6IV72;Q6VMQ6;P27797;Q9NPF5;Q06330;Q9NP71;Q75496;Q18847;Q9HAZ2;Q13127;Q9UPN9;Q15911;P51532;Q9NPI1;Q9ULM3;Q9NVW2;Q13263;Q5TGS1;Q8N6I1;Q9H4I2;Q9UNH7;Q00308;Q9UBB5;Q9HAU4;Q96MT3;Q9UDV7;Q5VXH4;Q9HBE1;Q9BRU2;P78395;Q9BT49;Q6W2J9;Q9UGP4;Q9NSC2;Q75381;Q75582;Q15697;P51531;Q9H091;P41182;Q05516;Q14529;Q9UKL0;Q75496;P29374;Q96QR8;Q00255;Q99623;Q14602;P05412;Q15534;Q9UKV0;Q8WW38;Q8N2W9;Q9Y5V3;Q96MH2;Q8NPF8;Q96LA8;P10242;Q0D2K3;P23409;Q16666;P26358;Q04727;P55055;Q9UER7;Q5VWM5;Q75618;Q96T23;P61201;P42771;Q9ULJ3;Q13547;P13056;P49715;Q94776;P31268;Q9HCS4;Q15164;Q99816;P41970;Q60813;Q9NQX0;Q5VWM3;Q04725;Q9Y3Q8;Q92993;P27348;P49454;P48380;Q86YP4;P55771;Q07666;Q86VX2;Q15910;A6NGN4;Q9NZI7;Q5TYX0;Q99471;Q15796;Q8TAQ2;Q4VC05;Q9BQA5;P33076;Q15226;Q8WVJ9;Q9Y6X8;Q14781;Q9P2Y4;Q96E29;Q96RU7;Q9NZL3;Q96004;P31946;Q9BT81;Q75346;Q63HK5;Q5TYW8;P49593;Q15742;P41134;Q9H7S9;Q03989;Q9NJB3;A6NMV5;Q32MZ4;Q8IZ40;Q15105;Q9BYE7;P19838;Q9NYF8;Q86X95;P10828;P35711;Q03112;Q5VTA0;P83916;Q9BQG0;Q9UIS9;Q5SWL7;Q9Y543;Q13573;P17676;P51397;Q5VT98;Q94992;Q9UI56;P35232;Q15379;P80723;Q9Y5J3;Q96MN9;Q8WXF8;Q9UHF7;Q8N5P1;P48059;Q8WUI4;P49711;P35548;Q04206;Q06587;P86452;Q9NQR1;Q96AQ6;Q9H6W3;Q01094;Q9UQR1;Q20823;Q95416;Q9NS37;Q02447;Q15834;Q8N693;P46527;P78545;P17947;Q13901;P17028;Q9BZK7;Q75376;Q9GZX5;Q53EL6;Q15392;Q13485;Q8IXJ6;Q8TBE0;Q9H116;Q2M1K9;Q8N5A5;Q9P0J0;Q96T58;Q9H7L9;Q04724;Q99684;P17096;Q9Y6B2;Q9Y2P7;Q08050;Q13422;Q01664;Q999

66;Q5TB30;O95521;P20749;P18847;Q6S9J96;Q719H9;Q8IY57;Q9BW11;O75362;Q5VVM1;Q15596;P37275;Q8WX92;O60810;Q16576;O60809;P35712;Q13185;O75164;Q5VVM6;O14901;Q8NB12;Q9Y2G9;Q969G3;Q86U70;Q9HD42;Q14192;Q96BF6;Q9UQ80;Q9NYW8;Q9UBC3;Q96QT6;Q96RL1;P84550;P63165;P55345;Q14865;P56524;Q13033;O43439;O00257;A9YTQ3;Q00987;Q13363;Q9NS86;Q96SZ4;P15822;P47928;Q969S8;Q9UBX0;Q99549;O43593;Q5SWL8;Q53H80;P12956;P17014;Q6NT76;Q01105;Q96SR6;P11142;Q8N5A5;Q96RE7;Q12906;P11473;Q9P1T7;Q96RJ6;O14978;O43316;P35638;O75182;Q9UJW3;Q9UNL4;P10827;Q9H7Z6;P14859;Q9UKY1;Q13506;P54253;Q8NDT2;P06400;Q00577;Q9UQL6;P49918}

13313 Pathogen[ P03363] interacts with 285 human partners: {Q719H9;Q86X95;Q9NQX1;Q9NPF5;Q5TGS1;Q15911;P49918;Q86VX2;Q86U70;P12956;Q96QT6;Q6S9J96;Q99684;Q32MZ4;O14901;Q15834;Q8NFW5;Q03989;Q96RE7;P49454;Q6VMQ6;Q99592;P10828;Q07666;P27348;Q9UHF7;P29374;O60809;Q99623;Q96T58;Q9UNH7;P35711;Q96RJ6;Q9UH92;P55771;Q9H091;Q9Y5J3;O14978;Q14865;Q9NZL3;O14529;Q04206;P17676;Q9HCU9;P83916;Q9Y468;Q9HAU4;Q14582;Q14781;Q86YP4;Q4VC05;Q9H7S9;P86452;O94992;Q9BRU2;Q8WX92;Q96SR6;P61201;Q02447;Q9ULJ3;O75618;Q96MT3;Q96LA8;P13010;Q96RL1;Q03112;Q9NS37;Q9H7L9;P18847;P45973;O75346;P37275;Q06330;Q8TAQ2;Q9NQ87;P17947;O15379;Q9H2F5;P51532;Q0D2K3;P06733;Q9BQGO;Q969S8;Q9BZK7;O43439;Q9Y6X8;P31946;O75376;Q15910;Q15545;P56545;Q9UDV7;Q13033;Q53EL6;O43316;Q13901;Q96QR8;Q9Y3M2;Q9UQL6;O75164;Q9UER7;P35548;Q9UPN9;Q9Y467;O75530;Q6NUN9;P78395;O15105;Q6NT76;Q04724;Q15596;Q8N693;Q9HCS4;P17028;Q9Y2X9;Q99471;P23497;P06400;Q13185;Q9UQ80;Q96E29;Q96BF6;Q04727;O00409;Q8IXH7;P49711;Q9UNL4;Q13127;Q8IY57;P11473;Q16666;Q9Y3Q8;O60813;Q6IV72;Q9UGP4;Q2MIK9;Q96T23;P20749;Q9Y2G9;Q9P1T7;P15822;O43593;Q99549;Q14602;Q08050;O15226;Q9HCK8;Q16576;P20264;P14859;P63165;Q12906;Q8N5P1;Q8N5F7;P78545;Q13506;Q9P0J0;P17096;Q8NB12;Q5SWL7;Q01094;Q9UKV0;P27797;Q9NP08;Q969G3;Q96ST3;Q96AQ6;Q8N5A5;Q9NP11;O75381;Q9BW11;P41134;Q9BQA5;Q9UNS1;Q8IZ40;Q15796;Q15723;P31268;Q9NZI7;Q9UKY1;P47928;O96004;P26358;P35638;Q15742;P10914;Q13573;P54253;Q9NYF8;Q5VVM6;P63279;A9YTQ3;Q13547;Q96T37;P19838;Q96SZ4;Q15697;Q9UI56;P33076;P35712;O75496;O00308;P10242;Q8WUI4;Q5TB30;P17014;Q04725;O75362;Q13485;P23409;Q5VXH4;Q63HK5;Q9Y5V3;Q9UQ71;P84550;O60810;P35232;P05412;Q96MN9;Q9BT49;Q9H116;P80723;Q99816;Q9UJW3;Q9UKL0;Q9NQ1;Q8NFJ8;Q9NVW2;Q9Y6B2;Q9Y543;Q9NP71;O95343;P41970;Q13363;Q8WW38;Q06587;O95416;P16383;Q9H0M0;Q6W2J9;Q9UML3;P48380;O95521;Q01105;P51531;Q00577;Q8N2W9;Q8N6I1;Q9UBC3;Q53H80;Q9BT81;Q9NYW8;Q9UID6;Q96MH2;Q05516;O15534;Q8WXF8;Q9GZX5;O00257;Q9H4I2;Q8TBE0;P13056;Q5VVM5;Q01664;Q8WVJ9;O75182;Q9BYE7;Q5TYX0;Q9BZE0;Q92993;Q9P2Y4;P42771;O43251;O14503;P11142;Q9HD42;P67809;O94776;Q9UBB5;Q9UIS9;Q9HAZ2;Q9UBX0;Q14192;Q8NDT2;Q9Y2P7}

13314 [Cluster 1211]GO:2001076+P biological\_process [name] positive regulation of metanephric ureteric bud development [def] "Any process that activates or increases the frequency, rate or extent of metanephric ureteric bud development." [GOC

13315 Pathogen[ Q2Q067] interacts with 1 human partners: {P80723}

13316 Pathogen[ P0C214] interacts with 1 human partners: {P80723}

13317 Pathogen[ P03346] interacts with 1 human partners: {P80723}

13318 Pathogen[ Q85601] interacts with 1 human partners: {P80723}

13319 Pathogen[ P14079] interacts with 1 human partners: {P80723}

13320 Pathogen[ P03383] interacts with 1 human partners: {P80723}

13321 Pathogen[ P03410] interacts with 1 human partners: {P80723}

13322 Pathogen[ P14075] interacts with 1 human partners: {P80723}

13323 Pathogen[ P0C206] interacts with 1 human partners: {P80723}

13324 Pathogen[ P03363] interacts with 1 human partners: {P80723}

13325 [Cluster 1212]GO:0007184+P biological\_process [name] SMAD protein import into nucleus [def] "The directed movement of a SMAD proteins from the cytoplasm into the nucleus. Pathway-restricted SMAD proteins and common-partner SMAD proteins are involved in the transforming growth factor beta receptor signaling pathways." [GOC

13326 Pathogen[ Q2Q067] interacts with 2 human partners: {Q01082;P50616}

13327 Pathogen[ P0C214] interacts with 3 human partners: {Q01082;P50616;P05412}

13328 Pathogen[ P03346] interacts with 4 human partners: {P05412;O95405;Q01082;P50616}

13329 Pathogen[ Q85601] interacts with 3 human partners: {Q01082;P05412;P50616}

13330 Pathogen[ P14079] interacts with 4 human partners: {Q01082;O95405;P05412;P50616}

13331 Pathogen[ P03383] interacts with 2 human partners: {P50616;P05412}

13332 Pathogen[ P03410] interacts with 4 human partners: {O95405;P05412;Q01082;P50616}

13333 Pathogen[ P14075] interacts with 2 human partners: {P05412;P50616}

13334 Pathogen[ P0C206] interacts with 4 human partners: {Q01082;P05412;P50616;O95405}

13335 Pathogen[ P03363] interacts with 4 human partners: {Q01082;P50616;O95405;P05412}

13336 [Cluster 1213]GO:0045190+P biological\_process [name] isotype switching [def] "The switching of activated B cells from IgM biosynthesis to biosynthesis of other isotypes of immunoglobulin, accomplished through a recombination process involving an intrachromosomal deletion involving switch regions that reside 5' of each constant region gene segment in the immunoglobulin heavy chain locus." [ISBN

13337 Pathogen[ Q2Q067] interacts with 6 human partners: {Q5RKV6;O60934;Q9UQ84;Q13426;Q9GZX7;O76064}

13338 Pathogen[ P0C214] interacts with 7 human partners: {Q5RKV6;Q13426;Q9GZX7;Q9UQ84;P40692;Q8IYW5;O76064}

13339 Pathogen[ P03346] interacts with 8 human partners: {Q5RKV6;O76064;P07992;Q13426;Q9NQ5;Q8IYW5;O60934;Q9UQ84}

13340 Pathogen[ Q85601] interacts with 8 human partners: {Q5RKV6;Q9UQ84;Q13426;Q9GZX7;O76064;Q8IYW5;P40692;O60934}

13341 Pathogen[ P14079] interacts with 9 human partners: {P40692;O60934;Q9GZX7;Q5RKV6;P52701;Q13426;Q9UQ84;P07992;P49917}

13342 Pathogen[ P03383] interacts with 2 human partners: {Q13426;Q5RKV6}

13343 Pathogen[ P03410] interacts with 8 human

13344 partners:{P40692;P07992;Q5RKV6;P52701;Q9GZX7;Q13426;Q9UQ84;O60934}  
Pathogen[ P14075] interacts with 2 human partners:{Q5RKV6;Q13426}

13345 Pathogen[ POC206] interacts with 11 human  
partners:{Q9UQ84;Q8IYW5;Q5RKV6;P52701;O60934;P40692;P07992;P49917;Q9GZX7;Q13426;O76064}

13346 Pathogen[ P03363] interacts with 4 human partners:{Q5RKV6;Q8IYW5;Q13426;Q9NQT5}

13347 [Cluster 1214]GO:0043568+P biological\_process [name] positive regulation of insulin-like growth factor receptor signaling pathway [def] "Any process that increases the frequency, rate or extent of insulin-like growth factor receptor signaling." [GOC  
13348 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8WWQ0}  
13349 Pathogen[ POC214] interacts with 1 human partners:{Q8WWQ0}  
13350 Pathogen[ P03346] interacts with 1 human partners:{Q8WWQ0}  
13351 Pathogen[ Q85601] interacts with 1 human partners:{Q8WWQ0}  
13352 Pathogen[ P14079] interacts with 1 human partners:{Q8WWQ0}  
13353 Pathogen[ P03383] interacts with 1 human partners:{Q8WWQ0}  
13354 Pathogen[ P03410] interacts with 1 human partners:{Q8WWQ0}  
13355 Pathogen[ P14075] interacts with 1 human partners:{Q8WWQ0}  
13356 Pathogen[ POC206] interacts with 1 human partners:{Q8WWQ0}  
13357 Pathogen[ P03363] interacts with 1 human partners:{Q8WWQ0}

13358 [Cluster 1215]GO:0045597+P biological\_process [name] positive regulation of cell differentiation [def] "Any process that activates or increases the frequency, rate or extent of cell differentiation." [GOC  
13359 Pathogen[ Q2Q067] interacts with 11 human  
partners:{Q13562;Q12837;Q9ULV5;Q9Y4Z2;P11831;P40337;O00255;P24864;P08697;O15198;Q15797}

13360 Pathogen[ POC214] interacts with 11 human  
partners:{O15198;P08697;P17275;P11831;Q12837;P40337;Q9ULV5;P24864;P10909;Q15797;O00255}

13361 Pathogen[ P03346] interacts with 15 human  
partners:{Q9Y4Z2;Q9HD90;P11831;Q15797;Q99626;Q12837;P17275;P24864;O43316;O15198;O95096;O00255;P40337;Q9ULV5;Q13562}

13362 Pathogen[ Q85601] interacts with 13 human  
partners:{O15198;P11831;O43316;Q9Y4Z2;Q9ULV5;Q15797;P40337;P08697;Q13562;O00255;P17275;Q12837;P24864}

13363 Pathogen[ P14079] interacts with 9 human  
partners:{P24864;O15198;P10909;Q15797;Q12837;P40337;P17275;Q9ULV5;O00255}

13364 Pathogen[ P03383] interacts with 10 human  
partners:{O15198;P11831;P40337;P08697;Q15797;Q9ULV5;Q12837;O00255;P24864;P17275}

13365 Pathogen[ P03410] interacts with 11 human  
partners:{P11831;O15198;P08697;P17275;Q15797;Q9ULV5;Q12837;O00255;P24864;P40337;P10909}

13366 Pathogen[ P14075] interacts with 9 human  
partners:{P11831;P17275;Q12837;O00255;Q9ULV5;O15198;P08697;P40337;P24864}

13367 Pathogen[ POC206] interacts with 14 human  
partners:{P17275;Q9Y4Z2;O00255;Q12837;Q9ULV5;P10909;Q13562;P11831;Q15797;O15198;P24864;O43316;P40337;P08697}

13368 Pathogen[ P03363] interacts with 11 human  
partners:{Q9Y4Z2;P24864;Q99626;O43316;Q15797;P40337;P17275;P11831;Q9ULV5;Q12837;O15198}

13369 [Cluster 1216]GO:0032508+P biological\_process [name] DNA duplex unwinding [def] "The process in which interchain hydrogen bonds between two strands of DNA are broken or 'melted', generating a region of unpaired single strands." [GOC  
13370 Pathogen[ Q2Q067] interacts with 8 human  
partners:{P49959;P38935;O60934;Q8N3C0;P46100;Q92499;Q9ULG1;Q9HCK8}

13371 Pathogen[ POC214] interacts with 8 human  
partners:{P49959;Q9ULG1;P38935;Q8N3C0;Q14566;P46100;Q9HCK8;Q92499}

13372 Pathogen[ P03346] interacts with 13 human  
partners:{P46063;P38935;P46100;Q9ULG1;Q8N3C0;Q7Z333;Q14566;Q92499;Q9HCK8;Q9NUX5;P49959;P33991;O60934}

13373 Pathogen[ Q85601] interacts with 9 human  
partners:{P38935;P49959;Q92499;Q14566;Q9ULG1;Q9HCK8;P46100;Q8N3C0;O60934}

13374 Pathogen[ P14079] interacts with 9 human  
partners:{Q9ULG1;Q14566;Q9NUX5;O60934;P46100;Q9HCK8;Q92499;Q96FC9;P38935}

13375 Pathogen[ P03383] interacts with 4 human partners:{P46100;Q9HCK8;P38935;Q92499}

13376 Pathogen[ P03410] interacts with 11 human  
partners:{P49959;Q9NUX5;Q8N3C0;Q9ULG1;P38935;Q92499;Q9HCK8;P46100;Q96FC9;Q14566;O60934}

13377 Pathogen[ P14075] interacts with 4 human partners:{P38935;Q92499;P46100;Q9HCK8}

13378 Pathogen[ POC206] interacts with 12 human  
partners:{Q9HCK8;P38935;P49959;O60934;P46100;O94762;Q7Z333;Q9ULG1;Q9NUX5;Q92499;Q14566;Q8N3C0}

13379 Pathogen[ P03363] interacts with 10 human  
partners:{O94762;Q7Z333;Q9ULG1;P46100;Q9HCK8;P46063;Q92499;Q9NUX5;P38935;Q8N3C0}

13380 [Cluster 1217]GO:0032878+P biological\_process [name] regulation of establishment or maintenance of cell polarity [def] "Any process that modulates the frequency, rate or

extent of the specification, formation or maintenance of anisotropic intracellular organization or cell growth patterns." [GOC

13381 Pathogen[ Q2Q067] interacts with 1 human partners:{Q6P1M3}

13382 Pathogen[ P0C214] interacts with 1 human partners:{Q6P1M3}

13383 Pathogen[ P03346] interacts with 1 human partners:{Q6P1M3}

13384 Pathogen[ Q85601] interacts with 1 human partners:{Q6P1M3}

13385 Pathogen[ P14079] interacts with 1 human partners:{Q6P1M3}

13386 Pathogen[ P03383] interacts with 1 human partners:{Q6P1M3}

13387 Pathogen[ P03410] interacts with 1 human partners:{Q6P1M3}

13388 Pathogen[ P14075] interacts with 1 human partners:{Q6P1M3}

13389 Pathogen[ P0C206] interacts with 1 human partners:{Q6P1M3}

13390 Pathogen[ P03363] interacts with 1 human partners:{Q6P1M3}

13391 [Cluster 1218]GO:0001702+P biological\_process [name] gastrulation with mouth forming second [def] "A gastrulation process in which the initial invagination becomes the anus and the mouth forms second." [GOC

13392 Pathogen[ Q2Q067] interacts with 5 human partners:{Q13485;Q9NYF0;Q99496;Q86U70;Q13105}

13393 Pathogen[ P0C214] interacts with 5 human partners:{Q86U70;Q13485;Q99496;Q9NYF0;Q13105}

13394 Pathogen[ P03346] interacts with 5 human partners:{Q86U70;Q13105;Q99496;Q9NYF0;Q13485}

13395 Pathogen[ Q85601] interacts with 5 human partners:{Q86U70;Q9NYF0;Q99496;Q13485;Q13105}

13396 Pathogen[ P14079] interacts with 5 human partners:{Q86U70;Q13105;Q99496;Q8WU20;Q9NYF0}

13397 Pathogen[ P03383] interacts with 5 human partners:{Q13485;Q86U70;Q13105;Q99496;Q9NYF0}

13398 Pathogen[ P03410] interacts with 6 human partners:{Q99496;Q86U70;Q13485;Q9NYF0;Q8WU20;Q13105}

13399 Pathogen[ P14075] interacts with 5 human partners:{Q86U70;Q13105;Q13485;Q99496;Q9NYF0}

13400 Pathogen[ P0C206] interacts with 6 human partners:{Q8WU20;Q13485;Q9NYF0;Q86U70;Q13105;Q99496}

13401 Pathogen[ P03363] interacts with 5 human partners:{Q86U70;Q13105;Q9NYF0;Q99496;Q13485}

13402 [Cluster 1219]GO:0061314+P biological\_process [name] Notch signaling involved in heart development [def] "The series of molecular signals initiated by binding of an extracellular ligand to a Notch receptor on the surface of the target cell and contributing to the progression of the heart over time." [GOC

13403 Pathogen[ Q2Q067] interacts with 2 human partners:{Q06330;Q9Y5J3}

13404 Pathogen[ P0C214] interacts with 2 human partners:{Q9Y5J3;Q06330}

13405 Pathogen[ P03346] interacts with 3 human partners:{Q06330;Q9Y5J3;Q95863}

13406 Pathogen[ Q85601] interacts with 2 human partners:{Q06330;Q9Y5J3}

13407 Pathogen[ P14079] interacts with 2 human partners:{Q06330;Q9Y5J3}

13408 Pathogen[ P03383] interacts with 1 human partners:{Q06330}

13409 Pathogen[ P03410] interacts with 2 human partners:{Q9Y5J3;Q06330}

13410 Pathogen[ P14075] interacts with 1 human partners:{Q06330}

13411 Pathogen[ P0C206] interacts with 2 human partners:{Q06330;Q9Y5J3}

13412 Pathogen[ P03363] interacts with 2 human partners:{Q9Y5J3;Q06330}

13413 [Cluster 1220]GO:0009058+P biological\_process [name] biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of substances\_ typically the energy-requiring part of metabolism in which simpler substances are transformed into more complex ones." [GOC

13414 Pathogen[ Q2Q067] interacts with 6 human partners:{Q9HAN9;Q330K2;Q96DP5;P22557;P13196;Q9NR50}

13415 Pathogen[ P0C214] interacts with 11 human partners:{Q96T66;Q05932;Q9HAN9;Q96DP5;P22557;P13196;Q13057;Q9NR50;Q9BZQ4;Q330K2;Q16773}

13416 Pathogen[ P03346] interacts with 6 human partners:{P22557;P13196;Q9HAN9;Q96DP5;Q330K2;Q9NR50}

13417 Pathogen[ Q85601] interacts with 4 human partners:{Q330K2;Q9NR50;P13196;Q9HAN9}

13418 Pathogen[ P14079] interacts with 11 human partners:{P42357;P13196;Q330K2;P22557;Q9NR50;Q9BZQ4;Q13057;Q9HAN9;P30039;Q05932;Q96DP5}

13419 Pathogen[ P03383] interacts with 4 human partners:{Q330K2;Q9NR50;Q9HAN9;Q96DP5}

13420 Pathogen[ P03410] interacts with 11 human partners:{P30039;Q96DP5;Q9NR50;Q13057;P22557;Q75600;Q9HAN9;Q330K2;Q05932;Q9BZQ4;P13196}

13421 Pathogen[ P14075] interacts with 5 human partners:{Q13057;Q330K2;Q9NR50;Q9HAN9;Q96DP5}

13422 Pathogen[ P0C206] interacts with 10 human partners:{Q330K2;Q13057;Q9NR50;P22557;P30039;Q9BZQ4;Q9HAN9;P13196;Q96DP5;Q05932}

13423 Pathogen[ P03363] interacts with 4 human partners:{Q330K2;Q9HAN9;Q9NR50;P13196}

13424 [Cluster 1221]GO:0010614+P biological\_process [name] negative regulation of cardiac muscle hypertrophy [def] "Any process that decreases the rate, frequency or extent of the enlargement or overgrowth of all or part of the heart due to an increase in size

(not length) of individual cardiac muscle fibers, without cell division." [GOC

13425 Pathogen[ Q2Q067] interacts with 1 human partners:{P41220}

13426 Pathogen[ POC214] interacts with 1 human partners:{P41220}

13427 Pathogen[ P03346] interacts with 2 human partners:{O76003;P41220}

13428 Pathogen[ Q85601] interacts with 2 human partners:{P41220;O76003}

13429 Pathogen[ P14079] interacts with 2 human partners:{P41220;O76003}

13430 Pathogen[ P03383] interacts with 1 human partners:{P41220}

13431 Pathogen[ P03410] interacts with 2 human partners:{O76003;P41220}

13432 Pathogen[ P14075] interacts with 1 human partners:{P41220}

13433 Pathogen[ POC206] interacts with 2 human partners:{O76003;P41220}

13434 Pathogen[ P03363] interacts with 2 human partners:{O76003;P41220}

13435 [Cluster 1222]GO:0001889+P biological\_process [name] liver development [def] "The process whose specific outcome is the progression of the liver over time, from its formation to the mature structure. The liver is an exocrine gland which secretes bile and functions in metabolism of protein and carbohydrate and fat, synthesizes substances involved in the clotting of the blood, synthesizes vitamin A, detoxifies poisonous substances, stores glycogen, and breaks down worn-out erythrocytes." [GOC

13436 Pathogen[ Q2Q067] interacts with 21 human partners:{P24385;O75151;P35680;Q01196;Q04206;P30279;P05062;O95948;Q8TDY2;Q02447;P08047;Q08050;Q9HAU5;P84022;P24864;Q14865;P20823;Q9HBD4;P06132;P53567;P49715}

13437 Pathogen[ POC214] interacts with 22 human partners:{P06132;P53567;P09417;P00480;Q14865;Q9HBD4;P84022;Q04206;Q8TDY2;P24385;O75151;Q9HAU5;Q8WV60;P05062;P14618;P05412;Q02447;P24864;P30279;Q96EK6;O95948;P08047}

13438 Pathogen[ P03346] interacts with 27 human partners:{P05412;Q9HBD4;P24385;P30279;O15522;Q14774;Q68CZ1;Q04206;P24864;Q8TDY2;Q08050;P20823;O75151;P49715;Q9UBC0;Q13351;P08047;P84022;O95948;P35680;Q9HAU5;P06132;Q14865;Q01196;P05062;P53567;Q02447}

13439 Pathogen[ Q85601] interacts with 25 human partners:{P24385;O75151;P00480;P53567;Q8WV60;Q8TDY2;P05062;P08047;Q9HAU5;P14618;O95948;Q04206;P30279;P35680;P05412;P06132;Q14865;Q02447;Q96EK6;Q9HBD4;P84022;P49715;Q08050;P20823;P24864}

13440 Pathogen[ P14079] interacts with 17 human partners:{O75151;P53567;P24864;Q8TDY2;P35680;O95948;Q68CZ1;Q14865;Q02447;Q8WV60;P06132;P49715;Q13351;Q9HAU5;P00480;Q96EK6;P05412}

13441 Pathogen[ P03383] interacts with 14 human partners:{Q9HBD4;P08047;P24385;Q8TDY2;O75151;P30279;P84022;P06132;Q9HAU5;Q02447;Q04206;P53567;P24864;P05412}

13442 Pathogen[ P03410] interacts with 22 human partners:{P84022;Q04206;P30279;Q02447;Q8WV60;P53567;Q8TDY2;Q96EK6;O95948;Q9HAU5;P06132;P05062;O75151;P00480;P24385;P05412;P35680;P08047;Q68CZ1;Q14865;Q9HBD4;P24864}

13443 Pathogen[ P14075] interacts with 16 human partners:{Q04206;P06132;Q9HBD4;P05412;P53567;P30279;Q08050;Q8TDY2;Q9HAU5;Q02447;P24385;P84022;Q96EK6;O75151;P24864;P08047}

13444 Pathogen[ POC206] interacts with 26 human partners:{P84022;P53567;P05062;Q8WV60;P30279;P05412;Q9UBC0;P49715;O75151;P08047;P35680;Q04206;P20823;Q02447;Q8TDY2;Q96EK6;Q9HAU5;Q08050;Q9HBD4;Q14865;P24864;P06132;P00480;P14618;P24385;O95948}

13445 Pathogen[ P03363] interacts with 18 human partners:{Q9UBC0;O95948;Q14865;Q04206;P24864;P53567;Q02447;P30279;P06132;Q08050;Q9HBD4;Q9HAU5;P84022;Q8TDY2;P24385;P05412;P08047;O15522}

13446 [Cluster 1223]GO:0046902+P biological\_process [name] regulation of mitochondrial membrane permeability [def] "Any process that modulates the frequency, rate or extent of the passage or uptake of molecules by the mitochondrial membrane." [GOC

13447 Pathogen[ Q2Q067] interacts with 3 human partners:{P55957;Q13794;Q12983}

13448 Pathogen[ POC214] interacts with 5 human partners:{Q92934;P30405;P55957;Q13794;Q12983}

13449 Pathogen[ P03346] interacts with 3 human partners:{P55957;Q12983;Q13794}

13450 Pathogen[ Q85601] interacts with 4 human partners:{P30405;P55957;Q12983;Q13794}

13451 Pathogen[ P14079] interacts with 4 human partners:{Q92934;Q13794;Q12983;P55957}

13452 Pathogen[ P03383] interacts with 3 human partners:{P55957;Q12983;Q13794}

13453 Pathogen[ P03410] interacts with 5 human partners:{Q12983;Q92934;Q13794;P55957;P30405}

13454 Pathogen[ P14075] interacts with 3 human partners:{Q12983;P55957;Q13794}

13455 Pathogen[ POC206] interacts with 5 human partners:{Q92934;Q12983;P30405;P55957;Q13794}

13456 Pathogen[ P03363] interacts with 2 human partners:{P55957;Q13794}

13457 [Cluster 1224]GO:0034101+P biological\_process [name] erythrocyte homeostasis [def] "Any process of regulating the production and elimination of erythrocytes within an organism." [GOC

13458 Pathogen[ Q2Q067] interacts with 4 human partners:{Q06830;P08708;P62847;P48200}

13459 Pathogen[ POC214] interacts with 4 human partners:{P62847;P48200;Q06830;P08708}

13460 Pathogen[ P03346] interacts with 6 human partners:{Q9Y5W3;P08708;P48200;Q06830;P62847;P17509}

13461 Pathogen[ Q85601] interacts with 4 human partners:{P48200;P08708;P62847;Q06830}

13462 Pathogen[ P14079] interacts with 4 human partners:{P62847;P08708;P48200;Q9Y5W3}

13463 Pathogen[ P03383] interacts with 3 human partners:{P48200;P62847;P08708}

13464 Pathogen[ P03410] interacts with 4 human partners:{P62847;P08708;P48200;Q06830}  
13465 Pathogen[ P14075] interacts with 3 human partners:{P08708;P62847;P48200}  
13466 Pathogen[ P0C206] interacts with 4 human partners:{P48200;Q06830;P08708;P62847}  
13467 Pathogen[ P03363] interacts with 4 human partners:{P62847;P48200;P08708;P17509}  
13468 [Cluster 1225]GO:0006359+P biological\_process [name] regulation of transcription from RNA polymerase III promoter [def] "Any process that modulates the frequency, rate or extent of transcription from an RNA polymerase III promoter." [GOC  
13469 Pathogen[ Q2Q067] interacts with 5 human partners:{Q9BUI4;P52747;Q14585;O15318;Q9H1D9}  
13470 Pathogen[ P0C214] interacts with 6 human partners:{Q9BUI4;Q9H1D9;O15318;P52747;P36508;Q14585}  
13471 Pathogen[ P03346] interacts with 6 human partners:{P36508;P52747;O15318;Q9H1D9;Q14585;Q9BUI4}  
13472 Pathogen[ Q85601] interacts with 6 human partners:{Q9H1D9;Q9BUI4;P36508;Q14585;P52747;O15318}  
13473 Pathogen[ P14079] interacts with 6 human partners:{Q14585;P52747;Q9BUI4;P36508;O15318;Q9H1D9}  
13474 Pathogen[ P03383] interacts with 4 human partners:{Q9H1D9;P52747;O15318;Q14585}  
13475 Pathogen[ P03410] interacts with 6 human partners:{P36508;O15318;Q14585;Q9H1D9;Q9BUI4;P52747}  
13476 Pathogen[ P14075] interacts with 4 human partners:{P52747;Q14585;Q9H1D9;O15318}  
13477 Pathogen[ P0C206] interacts with 6 human partners:{Q9BUI4;O15318;P36508;P52747;Q14585;Q9H1D9}  
13478 Pathogen[ P03363] interacts with 5 human partners:{Q9H1D9;P36508;O15318;Q14585;P52747}  
13479 [Cluster 1226]GO:0051683+P biological\_process [name] establishment of Golgi localization [def] "The directed movement of the Golgi to a specific location." [GOC  
13480 Pathogen[ Q2Q067] interacts with 2 human partners:{P60953;Q9Y678}  
13481 Pathogen[ P0C214] interacts with 2 human partners:{P60953;Q9Y678}  
13482 Pathogen[ P03346] interacts with 2 human partners:{Q9Y678;P60953}  
13483 Pathogen[ Q85601] interacts with 2 human partners:{Q9Y678;P60953}  
13484 Pathogen[ P14079] interacts with 1 human partners:{Q9Y678}  
13485 Pathogen[ P03383] interacts with 2 human partners:{Q9Y678;P60953}  
13486 Pathogen[ P03410] interacts with 2 human partners:{Q9Y678;P60953}  
13487 Pathogen[ P14075] interacts with 2 human partners:{P60953;Q9Y678}  
13488 Pathogen[ P0C206] interacts with 2 human partners:{Q9Y678;P60953}  
13489 Pathogen[ P03363] interacts with 2 human partners:{Q9Y678;P60953}  
13490 [Cluster 1227]GO:0031103+P biological\_process [name] axon regeneration [def] "The regrowth of axons following their loss or damage." [GOC  
13491 Pathogen[ Q2Q067] interacts with 1 human partners:{Q16612}  
13492 Pathogen[ P0C214] interacts with 2 human partners:{P05412;Q16612}  
13493 Pathogen[ P03346] interacts with 2 human partners:{P05412;Q16612}  
13494 Pathogen[ Q85601] interacts with 2 human partners:{Q16612;P05412}  
13495 Pathogen[ P14079] interacts with 2 human partners:{P05412;Q16612}  
13496 Pathogen[ P03383] interacts with 2 human partners:{Q16612;P05412}  
13497 Pathogen[ P03410] interacts with 2 human partners:{Q16612;P05412}  
13498 Pathogen[ P14075] interacts with 1 human partners:{P05412}  
13499 Pathogen[ P0C206] interacts with 2 human partners:{P05412;Q16612}  
13500 Pathogen[ P03363] interacts with 2 human partners:{P05412;Q16612}  
13501 [Cluster 1228]GO:0003215+P biological\_process [name] cardiac right ventricle morphogenesis [def] "The process in which the right cardiac ventricle is generated and organized." [GOC  
13502 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8WUF5}  
13503 Pathogen[ P0C214] interacts with 1 human partners:{Q8WUF5}  
13504 Pathogen[ P03346] interacts with 3 human partners:{Q06945;Q8WUF5;O75593}  
13505 Pathogen[ Q85601] interacts with 1 human partners:{Q8WUF5}  
13506 Pathogen[ P14079] interacts with 1 human partners:{Q8WUF5}  
13507 Pathogen[ P03383] interacts with 1 human partners:{Q8WUF5}  
13508 Pathogen[ P03410] interacts with 1 human partners:{Q8WUF5}  
13509 Pathogen[ P14075] interacts with 1 human partners:{Q8WUF5}  
13510 Pathogen[ P0C206] interacts with 1 human partners:{Q8WUF5}  
13511 Pathogen[ P03363] interacts with 1 human partners:{Q8WUF5}  
13512 [Cluster 1229]GO:2001145+P biological\_process [name] negative regulation of phosphatidylinositol-3,4,5-trisphosphate 5-phosphatase activity [def] "Any process that stops, prevents or reduces the frequency, rate or extent of phosphatidylinositol-3,4,5-trisphosphate 5-phosphatase activity." [GOC  
13513 Pathogen[ Q2Q067] interacts with 1 human partners:{O95429}  
13514 Pathogen[ P0C214] interacts with 1 human partners:{O95429}  
13515 Pathogen[ P03346] interacts with 1 human partners:{O95429}  
13516 Pathogen[ Q85601] interacts with 1 human partners:{O95429}  
13517 Pathogen[ P14079] interacts with 1 human partners:{O95429}  
13518 Pathogen[ P03383] interacts with 1 human partners:{O95429}  
13519 Pathogen[ P03410] interacts with 1 human partners:{O95429}  
13520 Pathogen[ P14075] interacts with 1 human partners:{O95429}  
13521 Pathogen[ P0C206] interacts with 1 human partners:{O95429}  
13522 Pathogen[ P03363] interacts with 1 human partners:{O95429}

13523 [Cluster 1230]GO:0070213+P biological\_process [name] protein auto-ADP-ribosylation [def] "The ADP-ribosylation by a protein of one or more of its own amino acid residues, or residues on an identical protein." [GOC

13524 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9H2K2;O95271}

13525 Pathogen[ P0C214] interacts with 2 human partners:{Q9H2K2;O95271}

13526 Pathogen[ P03346] interacts with 2 human partners:{Q9H2K2;O95271}

13527 Pathogen[ Q85601] interacts with 2 human partners:{Q9H2K2;O95271}

13528 Pathogen[ P14079] interacts with 2 human partners:{O95271;Q9H2K2}

13529 Pathogen[ P03383] interacts with 1 human partners:{O95271}

13530 Pathogen[ P03410] interacts with 2 human partners:{O95271;Q9H2K2}

13531 Pathogen[ P14075] interacts with 1 human partners:{O95271}

13532 Pathogen[ P0C206] interacts with 2 human partners:{O95271;Q9H2K2}

13533 Pathogen[ P03363] interacts with 2 human partners:{Q9H2K2;O95271}

13534 [Cluster 1231]GO:0010043+P biological\_process [name] response to zinc ion [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a zinc ion stimulus." [GOC

13535 Pathogen[ Q2Q067] interacts with 3 human partners:{P05062;P02533;P08397}

13536 Pathogen[ P0C214] interacts with 5 human partners:{P00480;P02533;Q16613;P05062;P08397}

13537 Pathogen[ P03346] interacts with 2 human partners:{P02533;P05062}

13538 Pathogen[ Q85601] interacts with 5 human partners:{P02533;P00480;Q16613;P05062;P08397}

13539 Pathogen[ P14079] interacts with 5 human partners:{P41238;P02533;Q16613;P08397;P00480}

13540 Pathogen[ P03383] interacts with 3 human partners:{P02533;Q16613;P08397}

13541 Pathogen[ P03410] interacts with 7 human partners:{P02533;P08397;P41238;P05062;P00480;Q16613;Q96D96}

13542 Pathogen[ P14075] interacts with 3 human partners:{Q16613;P08397;P02533}

13543 Pathogen[ P0C206] interacts with 6 human partners:{P05062;P41238;P08397;Q16613;P02533;P00480}

13544 Pathogen[ P03363] interacts with 1 human partners:{P02533}

13545 [Cluster 1232]GO:0060744+P biological\_process [name] mammary gland branching involved in thelarche [def] "The process in which the branching structure of the mammary gland duct is generated and organized during the period of sexual maturity in mammals. The mammary gland is a large compound sebaceous gland that in female mammals is modified to secrete milk." [GOC

13546 Pathogen[ Q2Q067] interacts with 1 human partners:{Q99623}

13547 Pathogen[ P0C214] interacts with 1 human partners:{Q99623}

13548 Pathogen[ P03346] interacts with 1 human partners:{Q99623}

13549 Pathogen[ Q85601] interacts with 1 human partners:{Q99623}

13550 Pathogen[ P14079] interacts with 1 human partners:{Q99623}

13551 Pathogen[ P03383] interacts with 1 human partners:{Q99623}

13552 Pathogen[ P03410] interacts with 1 human partners:{Q99623}

13553 Pathogen[ P14075] interacts with 1 human partners:{Q99623}

13554 Pathogen[ P0C206] interacts with 1 human partners:{Q99623}

13555 Pathogen[ P03363] interacts with 1 human partners:{Q99623}

13556 [Cluster 1233]GO:0000723+P biological\_process [name] telomere maintenance [def] "Any process that contributes to the maintenance of proper telomeric length and structure by affecting and monitoring the activity of telomeric proteins and the length of telomeric DNA. These processes includes those that shorten and lengthen the telomeric DNA sequences." [GOC

13557 Pathogen[ Q2Q067] interacts with 30 human partners:{Q15054;Q96SD1;Q92889;P27694;Q9NYB0;Q15554;P54274;Q9BSI4;P35244;Q9H668;P49005;P12004;Q14181;O60934;Q86US8;O60832;P15927;P56282;Q96AP0;P09874;Q9HCU8;O14746;Q15185;P12956;P39748;Q2NKJ3;Q9H816;P35251;P13010;Q9UKT5}

13558 Pathogen[ P0C214] interacts with 27 human partners:{O14746;Q9H816;Q92889;P13010;Q9BSI4;Q15554;Q96SD1;P35251;P49005;Q9HCU8;Q86US8;P15927;P35244;O60832;Q9NYB0;P39748;Q15054;Q9H668;P27694;Q15185;P56282;P12956;P54274;P09874;Q14181;Q9UKT5;Q2NKJ3}

13559 Pathogen[ P03346] interacts with 35 human partners:{Q9BSI4;Q96AP0;P12004;P12956;Q9HCU8;Q96SD1;Q86US8;Q15554;P27694;P54274;P35244;P35250;P56282;Q15185;P13010;O60832;P49005;Q9UKT5;Q9H668;O14746;Q9NUX5;Q9NYB0;Q16695;P15927;P35249;Q14181;P09874;O60934;Q92889;P35251;P39748;Q9H816;P40937;Q15054;Q2NKJ3}

13560 Pathogen[ Q85601] interacts with 28 human partners:{P09874;Q15554;P56282;P35244;Q2NKJ3;P49005;Q15054;P27694;Q92889;P15927;Q96SD1;Q9H668;P35251;Q14181;Q15185;Q9HCU8;Q86US8;O14746;P12004;Q9NYB0;P39748;Q9H816;Q9UKT5;O60832;P54274;P13010;P12956;O60934}

13561 Pathogen[ P14079] interacts with 34 human partners:{Q9H668;P54274;Q9UKT5;O14746;P09874;Q9NUX5;P40937;P13010;Q9BSI4;O60832;P49005;Q86US8;Q9HCU8;O60934;Q15054;P12956;P35250;P56282;P35251;Q9NYB0;Q15185;Q92889;P49642;Q14181;Q15554;P15927;Q96SD1;P27694;P12004;P35244;Q2NKJ3;Q9H816;Q96AP0;P39748}

13562 Pathogen[ P03383] interacts with 23 human partners:{P13010;Q9HCU8;Q9NYB0;Q15554;Q14181;P27694;P49005;P56282;Q9H816;P15927;Q86US8;Q9UKT5;P09874;Q9BSI4;O14746;P35244;Q15185;Q15054;Q2NKJ3;O60832;P54274;P12956;P352

51}  
13563 Pathogen[ P03410] interacts with 34 human  
partners:{P35244;Q9NUX5;Q9H816;Q14181;Q15554;Q96AP0;O14746;P54274;Q9UKT5;Q9H668;O608  
32;Q92889;P39748;Q9BSI4;P56282;Q96SD1;P12956;P35251;Q15185;Q15054;P09874;Q86US8;P130  
10;P49005;P27694;P15927;P35250;Q2NKJ3;Q9NYB0;P40937;P12004;O60934;P49642;Q9HCU8}  
13564 Pathogen[ P14075] interacts with 25 human  
partners:{P12956;O14746;Q15554;Q9BSI4;Q2NKJ3;P49005;P15927;Q96AP0;Q15185;Q9UKT5;P352  
44;P54274;Q86US8;Q9H816;P35251;Q15054;O60832;P27694;Q9HCU8;P13010;P56282;Q14181;P098  
74;Q9NYB0;Q9H668}  
13565 Pathogen[ P0C206] interacts with 32 human  
partners:{Q2NKJ3;P13010;Q96AP0;P35251;P09874;Q9HCU8;Q15554;O60934;Q15185;Q96SD1;Q9BS  
I4;Q9H668;Q9H816;P49005;P49642;P54274;Q86US8;Q15054;Q14181;Q92889;O60832;Q9NYB0;P562  
82;P27694;Q9NUX5;P15927;P39748;P35244;P12956;Q9UKT5;O14746;P12004}  
13566 Pathogen[ P03363] interacts with 27 human  
partners:{O60832;Q9H816;P12956;P27694;Q15554;P13010;Q86US8;Q9NYB0;Q92889;P35251;P490  
05;O14746;Q14181;P35244;Q9BSI4;Q16695;P15927;Q96AP0;Q9HCU8;P54274;Q9UKT5;Q9H668;Q9NU  
X5;Q15185;Q2NKJ3;Q15054;P09874}  
13567 [Cluster 1234]GO:0032212+P biological\_process [name] positive regulation of telomere  
maintenance via telomerase [def] "Any process that activates or increases the  
frequency, rate or extent of the addition of telomeric repeats by telomerase." [GOC  
13568 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9H2K2;O95271}  
13569 Pathogen[ P0C214] interacts with 2 human partners:{Q9H2K2;O95271}  
13570 Pathogen[ P03346] interacts with 3 human partners:{Q9H2K2;Q9NUX5;O95271}  
13571 Pathogen[ Q85601] interacts with 2 human partners:{Q9H2K2;O95271}  
13572 Pathogen[ P14079] interacts with 3 human partners:{Q9NUX5;O95271;Q9H2K2}  
13573 Pathogen[ P03383] interacts with 1 human partners:{O95271}  
13574 Pathogen[ P03410] interacts with 3 human partners:{Q9NUX5;O95271;Q9H2K2}  
13575 Pathogen[ P14075] interacts with 1 human partners:{O95271}  
13576 Pathogen[ P0C206] interacts with 3 human partners:{O95271;Q9NUX5;Q9H2K2}  
13577 Pathogen[ P03363] interacts with 3 human partners:{Q9H2K2;O95271;Q9NUX5}  
13578 [Cluster 1235]GO:0051384+P biological\_process [name] response to glucocorticoid  
stimulus [def] "Any process that results in a change in state or activity of a cell  
or an organism (in terms of movement, secretion, enzyme production, gene expression,  
etc.) as a result of a glucocorticoid stimulus. Glucocorticoids are hormonal C21  
corticosteroids synthesized from cholesterol with the ability to bind with the cortisol  
receptor and trigger similar effects. Glucocorticoids act primarily on carbohydrate and  
protein metabolism, and have anti-inflammatory effects." [GOC  
13579 Pathogen[ Q2Q067] interacts with 9 human  
partners:{P24385;P05062;P35573;P21953;P38936;P04818;Q8N8D1;P27986;P49715}  
13580 Pathogen[ P0C214] interacts with 12 human  
partners:{P04818;P12694;P24385;P05121;P35573;P38936;P05062;Q8N8D1;P21953;Q16822;P161  
18;P27986}  
13581 Pathogen[ P03346] interacts with 8 human  
partners:{P50135;P24385;P35573;P49715;P05062;P38936;Q8N8D1;P27986}  
13582 Pathogen[ Q85601] interacts with 10 human  
partners:{P24385;Q8N8D1;P21953;P05062;P16118;P27986;P35573;P05121;P49715;P38936}  
13583 Pathogen[ P14079] interacts with 10 human  
partners:{P04083;P21953;Q8N8D1;P50135;P49715;P38936;P11686;P35573;Q16878;P04818}  
13584 Pathogen[ P03383] interacts with 5 human  
partners:{P27986;P24385;P35573;Q16822;Q8N8D1}  
13585 Pathogen[ P03410] interacts with 14 human  
partners:{Q16822;P27986;P05121;P16118;P12694;P35573;P21953;P05062;P24385;P38936;P116  
86;P04818;P50135;Q8N8D1}  
13586 Pathogen[ P14075] interacts with 6 human  
partners:{Q16822;P16118;Q8N8D1;P27986;P35573;P24385}  
13587 Pathogen[ P0C206] interacts with 13 human  
partners:{P05062;Q16822;P21953;P49715;P27986;Q8N8D1;P38936;P04818;P16118;P05121;P501  
35;P24385;P35573}  
13588 Pathogen[ P03363] interacts with 5 human  
partners:{P50135;Q8N8D1;P24385;P35573;P27986}  
13589 [Cluster 1236]GO:0060039+P biological\_process [name] pericardium development [def]  
"The process whose specific outcome is the progression of the pericardium over time,  
from its formation to the mature structure. The pericardium is a double-walled sac that  
contains the heart and the roots of the aorta, vena cava and the pulmonary artery." [GOC  
13590 Pathogen[ Q2Q067] interacts with 3 human partners:{P84022;Q15796;Q03112}  
13591 Pathogen[ P0C214] interacts with 3 human partners:{Q03112;P84022;Q15796}  
13592 Pathogen[ P03346] interacts with 6 human  
partners:{Q68CZ1;Q15796;Q9BYW2;P84022;Q03112;Q99593}  
13593 Pathogen[ Q85601] interacts with 3 human partners:{Q03112;P84022;Q15796}  
13594 Pathogen[ P14079] interacts with 1 human partners:{Q68CZ1}  
13595 Pathogen[ P03383] interacts with 3 human partners:{Q03112;P84022;Q15796}  
13596 Pathogen[ P03410] interacts with 4 human partners:{P84022;Q03112;Q68CZ1;Q15796}  
13597 Pathogen[ P14075] interacts with 3 human partners:{Q15796;Q03112;P84022}  
13598 Pathogen[ P0C206] interacts with 3 human partners:{P84022;Q15796;Q03112}  
13599 Pathogen[ P03363] interacts with 3 human partners:{Q03112;Q15796;P84022}  
13600 [Cluster 1237]GO:0046632+P biological\_process [name] alpha-beta T cell differentiation



[def] "The process in which a precursor cell type acquires the specialized features of an alpha-beta T cell. An alpha-beta T cell is a T cell that expresses an alpha-beta T cell receptor complex." [CL

13601 Pathogen[ Q2Q067] interacts with 2 human partners:{P36402;P35268}

13602 Pathogen[ P0C214] interacts with 2 human partners:{P36402;P35268}

13603 Pathogen[ P03346] interacts with 2 human partners:{P36402;P35268}

13604 Pathogen[ Q85601] interacts with 2 human partners:{P36402;P35268}

13605 Pathogen[ P14079] interacts with 3 human partners:{P04083;P36402;P35268}

13606 Pathogen[ P03383] interacts with 2 human partners:{P36402;P35268}

13607 Pathogen[ P03410] interacts with 2 human partners:{P36402;P35268}

13608 Pathogen[ P14075] interacts with 2 human partners:{P36402;P35268}

13609 Pathogen[ P0C206] interacts with 2 human partners:{P35268;P36402}

13610 Pathogen[ P03363] interacts with 2 human partners:{P36402;P35268}

13611 [Cluster 1238]GO:0006184+P biological\_process [name] GTP catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of GTP, guanosine triphosphate." [ISBN

13612 Pathogen[ Q2Q067] interacts with 17 human partners:{Q9BZE4;Q9BVP2;O60841;Q9NVN8;P62826;P30793;O43236;P57772;Q8IYD1;P50570;P62879;Q15029;P23258;P60953;P63000;P61586;P68104}

13613 Pathogen[ P0C214] interacts with 24 human partners:{P63000;O60841;P57772;Q15029;P61586;P23258;P60953;P15170;Q9H089;P41091;P30793;P13639;A4D1E9;Q8IYD1;P62879;P62826;Q9NVN8;P50570;Q9BZE4;O43236;Q05639;Q5VTE0;Q9BV P2;P36404}

13614 Pathogen[ P03346] interacts with 21 human partners:{P50570;P41091;Q9BZE4;P23258;P57772;O60841;P60953;P62826;P62879;P20340;O432 36;P36404;Q8IYD1;P36405;Q9UHD8;Q15029;Q9NVN8;P63000;P68104;Q9BVP2;P61586}

13615 Pathogen[ Q85601] interacts with 23 human partners:{P62879;P36405;P41091;Q9BZE4;Q5VTE0;P57772;P62826;P63000;Q9H089;P30793;P232 58;P15170;Q15029;P68104;P50570;Q8IYD1;P61586;P60953;A4D1E9;Q9NVN8;Q05639;Q9BVP2;O432 36}

13616 Pathogen[ P14079] interacts with 29 human partners:{Q9BVP2;Q9H4K7;P68104;P41091;P57772;A4D1E9;P68363;P46199;Q15029;P30793;O001 78;P50570;Q8IYD1;Q9BZE4;Q96RP9;P36405;Q15814;Q8NC60;Q14692;P23258;P61586;P13639;Q969 S9;Q8N442;O60841;P62826;P49411;O43236;Q9H089}

13617 Pathogen[ P03383] interacts with 15 human partners:{P62879;Q9NVN8;Q15029;P57772;O43236;P60953;P63000;Q9BZE4;O60841;P62826;P615 86;P68104;Q8IYD1;Q9BVP2;A4D1E9}

13618 Pathogen[ P03410] interacts with 36 human partners:{Q9H4K7;Q9NVN8;P68104;Q15029;O60841;P63000;Q14692;Q96RP9;P46199;P36405;Q969 S9;P50570;Q15814;P30793;P13639;Q8NC60;Q8N442;O43236;P62826;P15170;P61586;Q9H089;Q9BV A1;Q9UHD8;Q8IYD1;P57772;P60953;Q9BVP2;A4D1E9;P23258;P68363;P41091;O00178;P62879;Q9BZ E4;P49411}

13619 Pathogen[ P14075] interacts with 16 human partners:{P60953;O60841;P68104;P57772;O43236;P62879;A4D1E9;Q9NVN8;Q15029;P62826;Q8IY D1;P61586;P63000;Q9BZE4;P30793;Q9BVP2}

13620 Pathogen[ P0C206] interacts with 23 human partners:{P41091;Q9NVN8;P62879;Q9BVP2;Q14692;Q8IYD1;P62826;P30793;O43236;Q15814;P615 86;Q9H089;O60841;P63000;P57772;P60953;P23258;Q9BZE4;P36405;A4D1E9;P68104;P50570;Q150 29}

13621 Pathogen[ P03363] interacts with 21 human partners:{P62879;Q9NVN8;O60841;Q8IYD1;P50570;P68363;Q9BZE4;P63000;P41091;P57772;Q150 29;Q13748;Q15814;Q9UHD8;Q9BVP2;P23258;Q99719;P62826;P60953;O43236;P68104}

13622 [Cluster 1239]GO:0007625+P biological\_process [name] grooming behavior [def] "The specific actions or reactions of an organism relating to grooming, cleaning and brushing to remove dirt and parasites." [GOC

13623 Pathogen[ Q2Q067] interacts with 1 human partners:{P07741}

13624 Pathogen[ P0C214] interacts with 1 human partners:{P07741}

13625 Pathogen[ P03346] interacts with 2 human partners:{P17481;P07741}

13626 Pathogen[ Q85601] interacts with 1 human partners:{P07741}

13627 Pathogen[ P14079] interacts with 1 human partners:{P07741}

13628 Pathogen[ P03383] interacts with 1 human partners:{P07741}

13629 Pathogen[ P03410] interacts with 1 human partners:{P07741}

13630 Pathogen[ P14075] interacts with 1 human partners:{P07741}

13631 Pathogen[ P0C206] interacts with 1 human partners:{P07741}

13632 Pathogen[ P03363] interacts with 2 human partners:{P17481;P07741}

13633 [Cluster 1240]GO:0016578+P biological\_process [name] histone deubiquitination [def] "The modification of histones by removal of ubiquitin groups." [GOC

13634 Pathogen[ Q2Q067] interacts with 7 human partners:{Q9Y4A5;O75486;Q14CW9;Q12962;O15265;Q92830;Q9NPA8}

13635 Pathogen[ P0C214] interacts with 7 human partners:{O75486;Q14CW9;Q12962;Q9NPA8;Q9Y4A5;Q92830;O15265}

13636 Pathogen[ P03346] interacts with 7 human partners:{O15265;O75486;Q92830;Q9Y4A5;Q12962;Q14CW9;Q9NPA8}

13637 Pathogen[ Q85601] interacts with 8 human partners:{Q9Y5T5;O15265;Q14CW9;Q9Y4A5;Q92830;Q9NPA8;Q12962;O75486}

13638 Pathogen[ P14079] interacts with 7 human

13639 partners: {Q9Y4A5;Q92830;Q14CW9;Q12962;O15265;O75486;Q9NPA8}  
Pathogen[ P03383] interacts with 7 human

13640 partners: {Q9NPA8;O75486;Q9Y4A5;Q14CW9;O15265;Q92830;Q12962}  
Pathogen[ P03410] interacts with 7 human

13641 partners: {Q92830;Q12962;Q14CW9;O75486;Q9NPA8;Q9Y4A5;O15265}  
Pathogen[ P14075] interacts with 7 human

13642 partners: {Q12962;O15265;Q9Y4A5;Q14CW9;Q9NPA8;O75486;Q92830}  
Pathogen[ P0C206] interacts with 8 human

13643 partners: {O75486;Q92830;Q9Y5T5;O15265;Q9Y4A5;Q14CW9;Q12962;Q9NPA8}  
Pathogen[ P03363] interacts with 7 human

13644 partners: {Q12962;Q92830;O15265;Q9NPA8;Q14CW9;Q9Y4A5;O75486}  
[Cluster 1241]GO:0030036+P biological\_process [name] actin cytoskeleton organization  
[def] "A process that is carried out at the cellular level which results in the  
assembly, arrangement of constituent parts, or disassembly of cytoskeletal structures  
comprising actin filaments and their associated proteins." [GOC

13645 Pathogen[ Q2Q067] interacts with 25 human  
partners: {O15511;O75161;P54252;Q9Y613;P07737;P35080;P63313;O43516;P41182;O14604;P631  
67;O00401;P11831;P60673;P23528;P0CG35;P62328;P11171;P0CG34;Q9BR76;Q9NVD7;Q8WUW1;P609  
53;P61586;Q92556}

13646 Pathogen[ P0C214] interacts with 28 human  
partners: {P35080;O75161;P63313;P61586;P11831;P60953;Q9Y613;P0CG35;O43516;P0CG34;P355  
80;O14613;O14604;Q16658;Q92556;P41182;Q8WUW1;Q2V2M9;P60673;O60925;O00401;Q9NVD7;P111  
71;P54252;P62328;Q9BR76;P63167;O15511}

13647 Pathogen[ P03346] interacts with 37 human  
partners: {Q5JU85;Q96AC1;P02549;Q9NSV4;O15511;O43516;Q9Y613;P11831;P0CG34;Q27J81;P609  
53;Q9BR76;O14613;Q2V2M9;Q8WUW1;O75161;P11171;Q7Z3U7;P60673;P35080;Q6DN90;O14604;P411  
82;Q9NVD7;Q9UPP2;P63313;P62328;O60925;Q16658;P63167;P0CG35;P07737;P23528;O00401;Q925  
56;P54252;P61586}

13648 Pathogen[ Q85601] interacts with 27 human  
partners: {O00401;O75161;O15511;P11831;Q9NVD7;Q2V2M9;Q9Y613;P35080;P11171;P0CG34;Q8WU  
W1;Q9BR76;P54252;P07737;O43516;O14613;P60673;P61586;P60953;P62328;P35580;P0CG35;P235  
28;P41182;P63167;O14604;P63313}

13649 Pathogen[ P14079] interacts with 45 human  
partners: {O43516;O75161;Q9UPP2;O60925;O14613;Q8IZ21;P0CG34;Q01518;P11171;A4UGR9;Q166  
58;Q9NR12;P47756;O14604;Q92556;P54252;P07737;P35080;P60673;P50552;Q9Y613;P35611;O155  
11;P41182;P23528;O60610;Q702N8;P62328;Q96KX2;Q96AC1;P61586;Q9BR76;P0CG35;Q8N5W9;P631  
67;Q8WUW1;Q2V2M9;Q6DN90;P02549;Q9NVD7;P63313;O15259;Q8NHR9;Q27J81;O00401}

13650 Pathogen[ P03383] interacts with 20 human  
partners: {P11831;P35080;O15511;P60953;P62328;P63313;P07737;O43516;O00401;Q9Y613;P542  
52;P61586;P0CG35;P35580;O60925;O75161;P23528;P63167;O14604;P0CG34}

13651 Pathogen[ P03410] interacts with 46 human  
partners: {O15511;Q8NHR9;Q96KX2;P11831;Q27J81;Q16658;P62328;P35080;P47756;O60610;Q8IZ  
21;Q702N8;O15259;O43516;P0CG35;P0CG34;O00401;O75161;P63167;P54252;P02549;Q8WUW1;P111  
71;P60673;Q92556;P50552;P61586;O14613;O14604;Q8N5W9;Q9UPP2;Q9Y613;Q9BR76;P41182;Q2V2  
M9;P60953;P35580;A4UGR9;O60925;Q9NVD7;Q01518;P23528;Q7Z3U7;P63313;P07737;P35611}

13652 Pathogen[ P14075] interacts with 22 human  
partners: {P60953;P0CG34;Q8N5W9;P11831;P62328;Q9Y613;P63313;O15511;P54252;P07737;P235  
28;O43516;O00401;O14604;O75161;O14613;P0CG35;P61586;O60925;P35080;P63167;P11171}

13653 Pathogen[ P0C206] interacts with 34 human  
partners: {O14604;O15511;P0CG35;P0CG34;Q92556;P60673;P47756;O43516;Q9BR76;O75161;Q9NV  
D7;P41182;P62328;Q2V2M9;P63167;O14613;Q27J81;P54252;P61586;Q8WUW1;O60925;Q16658;P350  
80;O00401;P60953;P11831;Q9Y613;Q9UPP2;P63313;Q8N5W9;P07737;P35580;P23528;P11171}

13654 Pathogen[ P03363] interacts with 37 human  
partners: {O75161;P63167;P02549;P35080;P0CG35;P60673;Q9BR76;P62328;Q9UPP2;P63313;Q8NH  
R9;Q9NSV4;P54252;Q9Y613;P11831;O60925;P11171;O14613;Q92556;Q2V2M9;P0CG34;Q8WUW1;P235  
28;Q5JU85;O00401;O43516;Q6DN90;Q27J81;O15259;Q96AC1;Q9NVD7;O14604;Q9NR12;Q16658;P609  
53;P07737;O15511}

13655 [Cluster 1242]GO:0045598+P biological\_process [name] regulation of fat cell  
differentiation [def] "Any process that modulates the frequency, rate or extent of  
adipocyte differentiation." [GOC

13656 Pathogen[ Q2Q067] interacts with 2 human partners: {Q7Z7C8;Q14693}

13657 Pathogen[ P0C214] interacts with 2 human partners: {Q7Z7C8;Q14693}

13658 Pathogen[ P03346] interacts with 2 human partners: {Q7Z7C8;Q14693}

13659 Pathogen[ Q85601] interacts with 2 human partners: {Q7Z7C8;Q14693}

13660 Pathogen[ P14079] interacts with 2 human partners: {Q14693;Q8TCU4}

13661 Pathogen[ P03383] interacts with 1 human partners: {Q14693}

13662 Pathogen[ P03410] interacts with 2 human partners: {Q8TCU4;Q14693}

13663 Pathogen[ P14075] interacts with 2 human partners: {Q7Z7C8;Q14693}

13664 Pathogen[ P0C206] interacts with 3 human partners: {Q8TCU4;Q7Z7C8;Q14693}

13665 Pathogen[ P03363] interacts with 1 human partners: {Q7Z7C8}

13666 [Cluster 1243]GO:0043248+P biological\_process [name] proteasome assembly [def] "The  
aggregation, arrangement and bonding together of a mature, active proteasome complex."  
[GOC

13667 Pathogen[ Q2Q067] interacts with 5 human  
partners: {O00231;Q9Y244;Q969U7;O95456;Q16186}

13668 Pathogen[ P0C214] interacts with 5 human

13669 partners:{Q95456;Q16186;Q9Y244;O00231;Q969U7}  
Pathogen[ P03346] interacts with 5 human

13670 partners:{Q95456;Q969U7;O00231;Q9Y244;Q16186}  
Pathogen[ Q85601] interacts with 5 human

13671 partners:{Q9Y244;Q969U7;Q95456;O00231;Q16186}  
Pathogen[ P14079] interacts with 5 human

13672 partners:{Q16186;Q9Y244;Q969U7;Q95456;O00231}  
Pathogen[ P03383] interacts with 5 human

13673 partners:{Q9Y244;O00231;Q95456;Q969U7;Q16186}  
Pathogen[ P03410] interacts with 5 human

13674 partners:{Q95456;Q969U7;Q9Y244;O00231;Q16186}  
Pathogen[ P14075] interacts with 5 human

13675 partners:{Q16186;Q969U7;Q9Y244;O00231;Q95456}  
Pathogen[ P0C206] interacts with 5 human

13676 partners:{Q969U7;Q16186;Q95456;Q9Y244;O00231}  
Pathogen[ P03363] interacts with 4 human partners:{Q16186;Q969U7;Q95456;Q9Y244}

13677 [Cluster 1244]GO:0007339+P biological\_process [name] binding of sperm to zona pellucida [def] "The process in which the sperm binds to the zona pellucida glycoprotein layer of the egg. The process begins with the attachment of the sperm plasma membrane to the zona pellucida and includes attachment of the acrosome inner membrane to the zona pellucida after the acrosomal reaction takes place." [GOC

13678 Pathogen[ Q2Q067] interacts with 2 human partners:{P49901;Q14157}

13679 Pathogen[ P0C214] interacts with 2 human partners:{P49901;Q14157}

13680 Pathogen[ P03346] interacts with 2 human partners:{Q14157;P49901}

13681 Pathogen[ Q85601] interacts with 1 human partners:{Q14157}

13682 Pathogen[ P14079] interacts with 2 human partners:{Q14157;P49901}

13683 Pathogen[ P03383] interacts with 2 human partners:{P49901;Q14157}

13684 Pathogen[ P03410] interacts with 2 human partners:{Q14157;P49901}

13685 Pathogen[ P14075] interacts with 2 human partners:{Q14157;P49901}

13686 Pathogen[ P0C206] interacts with 2 human partners:{P49901;Q14157}

13687 Pathogen[ P03363] interacts with 2 human partners:{Q14157;P49901}

13688 [Cluster 1245]GO:0000718+P biological\_process [name] nucleotide-excision repair, DNA damage removal [def] "The removal of the oligonucleotide that contains the DNA damage. The oligonucleotide is formed by dual incisions that flank the site of DNA damage." [GOC

13689 Pathogen[ Q2Q067] interacts with 17 human  
partners:{Q92889;P27694;Q13889;P35244;P32780;Q92759;P54727;Q16531;P51948;P15927;P50613;Q01831;Q92466;Q13888;P28715;P51946;P23025}

13690 Pathogen[ P0C214] interacts with 16 human  
partners:{P51946;Q92889;P50613;P23025;P28715;P51948;P15927;P35244;P54727;P32780;Q01831;Q13888;P27694;Q92466;Q16531;Q92759}

13691 Pathogen[ P03346] interacts with 17 human  
partners:{P28715;P27694;P07992;P35244;Q16531;Q13888;Q13889;Q01831;P51946;P15927;P54727;Q92759;Q92889;P23025;Q92466;P51948;P32780}

13692 Pathogen[ Q85601] interacts with 17 human  
partners:{P51946;P23025;Q01831;Q16531;Q13888;P35244;P51948;P27694;Q92889;P28715;P54727;P15927;Q92759;P32780;P50613;Q92466;P19447}

13693 Pathogen[ P14079] interacts with 19 human  
partners:{P28715;P51946;Q16531;Q13889;P23025;P50613;Q13888;Q92759;Q92889;P32780;P15927;P27694;Q92466;Q01831;P35244;P54727;P07992;P19447;P51948}

13694 Pathogen[ P03383] interacts with 14 human  
partners:{P51948;Q13888;P27694;Q01831;P15927;P50613;P51946;P23025;P35244;P54727;Q92759;Q16531;Q92466;P32780}

13695 Pathogen[ P03410] interacts with 19 human  
partners:{P23025;P35244;Q13889;P07992;P51946;Q92889;P28715;Q92466;P50613;Q01831;P19447;Q16531;P51948;Q13888;P27694;P15927;P32780;Q92759;P54727}

13696 Pathogen[ P14075] interacts with 15 human  
partners:{Q92759;P23025;Q01831;P50613;P15927;P35244;Q13889;P54727;Q16531;P27694;P51946;P32780;Q92466;P51948;Q13888}

13697 Pathogen[ P0C206] interacts with 19 human  
partners:{P28715;Q16531;P07992;P19447;Q13888;P50613;Q92889;Q01831;Q92759;P54727;P32780;Q13889;P27694;P15927;Q92466;P35244;P23025;P51946;P51948}

13698 Pathogen[ P03363] interacts with 13 human  
partners:{P27694;P54727;Q01831;Q13888;P32780;Q16531;Q92759;P51946;Q92889;P23025;P35244;P15927;Q92466}

13699 [Cluster 1246]GO:0045165+P biological\_process [name] cell fate commitment [def] "The commitment of cells to specific cell fates and their capacity to differentiate into particular kinds of cells. Positional information is established through protein signals that emanate from a localized source within a cell (the initial one-cell zygote) or within a developmental field." [ISBN

13700 Pathogen[ Q2Q067] interacts with 14 human  
partners:{Q13562;O60806;O43364;Q99502;P35712;Q99684;O95948;O75030;Q15796;O15370;P31314;Q9NY43;P58304;P35711}

13701 Pathogen[ P0C214] interacts with 13 human  
partners:{P32243;P31314;P35711;O75030;P42574;Q15796;O60806;Q99684;O95948;O15370;P35712;Q9NY43;Q99502}

13702 Pathogen[ P03346] interacts with 23 human

partners: {Q7RTS3;O15370;Q9HD90;Q15796;O60806;Q92886;P42574;P58304;O75626;Q99502;O75030;Q9UBC0;O43364;P17542;O95948;Q99684;P35712;P31314;Q13562;P35711;P32243;Q9NY43;Q9H2A3}

13703 Pathogen[ Q85601] interacts with 17 human partners: {O75030;O43364;P35712;O60806;Q13562;O15370;O95948;P35711;Q99502;P58304;P32243;Q99684;P31314;O75626;P17677;Q9NY43;Q15796}

13704 Pathogen[ P14079] interacts with 16 human partners: {P35711;P17677;O43364;Q99502;O15370;O75626;O43597;O95948;Q99684;P35712;P58304;Q9NY43;P54826;O43294;P32243;O75030}

13705 Pathogen[ P03383] interacts with 9 human partners: {P35712;P32243;O75030;P35711;O15370;Q99684;P31314;Q15796;Q9NY43}

13706 Pathogen[ P03410] interacts with 17 human partners: {P35712;O43597;O60806;Q99502;O75030;O43294;O95948;P31314;Q99684;O43364;P54826;P32243;P17677;O75626;O15370;Q9NY43;Q15796}

13707 Pathogen[ P14075] interacts with 11 human partners: {O75030;Q15796;P35711;Q9NY43;Q99684;P35712;O15370;P31314;Q99502;P32243;P54826}

13708 Pathogen[ P0C206] interacts with 23 human partners: {P31314;P17677;Q9NY43;O75030;Q9UBC0;O75626;Q15796;P35711;P32243;O43294;P42574;O43597;Q99684;O15370;Q13562;Q99502;P35712;O43364;P54826;O60806;P58304;Q9H2A3;O95948}

13709 Pathogen[ P03363] interacts with 18 human partners: {Q92886;O15370;Q9UBC0;Q99684;O95948;P35711;Q7RTS3;P58304;P32243;O75030;Q15796;P31314;P35712;O60806;O43364;Q9NY43;O75626;Q9H2A3}

13710 [Cluster 1247]GO:0060363+P biological\_process [name] cranial suture morphogenesis [def] "The process in which any suture between cranial bones is generated and organized." [GOC]

13711 Pathogen[ Q2Q067] interacts with 1 human partners: {P35548}

13712 Pathogen[ P0C214] interacts with 1 human partners: {P35548}

13713 Pathogen[ P03346] interacts with 1 human partners: {P35548}

13714 Pathogen[ Q85601] interacts with 1 human partners: {P35548}

13715 Pathogen[ P14079] interacts with 2 human partners: {Q9Y5U4;O15503}

13716 Pathogen[ P03383] interacts with 1 human partners: {P35548}

13717 Pathogen[ P03410] interacts with 3 human partners: {Q9Y5U4;P35548;O15503}

13718 Pathogen[ P14075] interacts with 1 human partners: {P35548}

13719 Pathogen[ P0C206] interacts with 1 human partners: {P35548}

13720 Pathogen[ P03363] interacts with 1 human partners: {P35548}

13721 [Cluster 1248]GO:0010832+P biological\_process [name] negative regulation of myotube differentiation [def] "Any process that decreases the frequency, rate or extent of myotube differentiation. Myotube differentiation is the process in which a relatively unspecialized cell acquires specialized features of a myotube cell. Myotubes are multinucleated cells that are formed when proliferating myoblasts exit the cell cycle, differentiate and fuse." [GOC]

13722 Pathogen[ Q2Q067] interacts with 4 human partners: {P56524;Q13547;O15379;Q9UQL6}

13723 Pathogen[ P0C214] interacts with 4 human partners: {Q13547;P56524;O15379;Q9UQL6}

13724 Pathogen[ P03346] interacts with 5 human partners: {O15379;P56524;Q9C0J9;Q13547;Q9UQL6}

13725 Pathogen[ Q85601] interacts with 4 human partners: {Q9UQL6;P56524;O15379;Q13547}

13726 Pathogen[ P14079] interacts with 3 human partners: {Q9UQL6;O15379;P56524}

13727 Pathogen[ P03383] interacts with 4 human partners: {Q9UQL6;O15379;Q13547;P56524}

13728 Pathogen[ P03410] interacts with 4 human partners: {Q9UQL6;O15379;P56524;Q13547}

13729 Pathogen[ P14075] interacts with 4 human partners: {P56524;Q13547;O15379;Q9UQL6}

13730 Pathogen[ P0C206] interacts with 5 human partners: {Q9C0J9;Q13547;O15379;P56524;Q9UQL6}

13731 Pathogen[ P03363] interacts with 4 human partners: {O15379;Q9C0J9;Q9UQL6;Q13547}

13732 [Cluster 1249]GO:0006355+P biological\_process [name] regulation of transcription, DNA-dependent [def] "Any process that modulates the frequency, rate or extent of cellular DNA-dependent transcription." [GOC]

13733 Pathogen[ Q2Q067] interacts with 1658 human partners: {E7ETH6;Q13562;Q0D2J5;Q12901;P05204;O60806;Q9HC78;Q09FC8;Q96EI5;Q9H4I2;Q01844;Q9NZ81;Q9UNP9;Q9UM63;Q96SQ5;Q9BUE0;Q9Y473;Q9BYE7;Q14526;Q9Y5K5;P30153;Q8WV37;Q9UNN4;Q8N859;O43365;P52742;Q15573;Q9BRH9;Q9UKI9;Q8NG57;Q96N77;Q9NWB6;C9JN71;Q14151;Q12905;O43463;Q9UPP1;Q7RTT3;Q9NZI7;Q8IUD2;Q8WZ33;P27540;P17544;O75525;Q13118;P25490;Q33E94;Q6VMQ6;Q8NCF5;Q92750;P01100;Q03989;P22392;Q9UK13;P35789;Q6V9R5;Q8NA42;O00213;Q9HB65;Q9Y6X8;Q92585;Q92988;Q8N187;Q96FV9;O43167;Q2M218;Q04864;P81877;Q9UHL9;Q9UJN7;P0C1Z6;Q16236;Q03923;Q9Y4A5;Q9UEG4;P62633;P54252;Q9BUG6;Q96S65;A6NDX5;O43364;Q8NEM1;Q71F23;O15525;Q13185;Q9UC06;Q14258;Q99583;Q2KHR2;Q6Z28;O75155;Q8IZL2;P98182;Q8IX15;Q12837;Q9H7X3;O14744;Q9UPN9;Q9Y5Q3;Q03052;O75461;P56524;Q9UK11;Q9BY41;P17029;Q12796;P52738;Q10587;A8MTY0;Q9HAW0;O75909;Q9Y3C7;A0AVK6;Q8N228;Q9UMS5;Q96D98;Q9H7R0;Q96PE6;Q8IZD2;A6NFQ7;Q99502;Q9H3H9;Q8IZ26;Q7Z353;P60002;Q9HBZ2;Q9BRR0;Q6ZW49;Q5VUG0;P10827;Q8WVY6;A6NJL1;P04198;P15884;P20226;Q9NVM4;Q04726;Q96HR3;O43361;P10243;Q9Y462;Q99417;Q9Y5V3;P09067;Q96NI8;Q9GZW5;Q92681;Q16594;Q9UGU0;O75925;Q92922;Q6NUN9;Q8N9R8;P39687;Q9UJL9;Q9UQ80;O60304;Q9BRU2;P23511;P24278;Q8NEP9;Q9H063;Q8WVCO;Q05066;Q8NEF9;Q6ZQV5;Q9HBE1;Q06416;Q8TAD8;Q9NXR8;Q13487;Q63HK5;P0CJ88;Q99081;Q8N0Y2;Q9Y2D1;Q92664;Q5VTD9;Q15928;Q96K75;Q9Y3Q8;Q9UHB7;Q12888;Q9H175;Q6XD76;O00291;O00470;Q9UBX2;Q9UHR5;Q13887;O00267;Q96RK1;P06400;Q8TA94;Q6ZN32;Q9H9T3;Q9NPJ6;O75534;O75494;Q8WYA1;Q0D2K3;Q96I24;P293

74;Q9NPF5;Q86YE8;P51825;Q08AN1;Q9C005;Q01094;P58317;Q8IYF1;Q9UKV0;Q14678;Q8WW38;Q089  
99;Q6ZMY9;P40763;Q9H5Q4;Q8WYH8;P78424;Q8N8Z8;P14921;Q5VZB9;Q6ZS27;Q9NYB0;A6NP11;Q9UL  
59;Q96LA8;O15226;Q8N4W9;Q13889;Q13352;P01106;Q9H2P0;Q13148;P10073;Q52LR7;O14503;Q9HA  
Z2;P36402;O43159;Q7Z589;Q12872;Q16666;P46937;Q15910;Q9NR55;Q16533;O75151;Q9Y3T9;O604  
81;Q6IE81;Q7KZF4;P67809;O95402;Q6PD62;Q13485;A6NGD5;Q5SXM1;Q01543;Q6IV72;A8MVS1;Q9UN  
S1;Q9HAJ7;P10589;Q8N2I2;Q6ECI4;Q9UC07;P35680;Q14549;Q9P0U4;Q9H9D4;Q12986;Q9NR48;P312  
74;O95997;P13056;Q9C0F0;P131268;Q6ZT77;Q8IUE1;Q1UHF7;O43189;P62508;Q6P1J9;Q9ULD5;P515  
08;Q9UBB5;Q0PNE2;Q14590;A5YKK6;Q15596;P48380;Q8WVM0;O14813;Q9NTW7;Q16656;Q9Y2Y9;Q96N  
G8;P35712;Q6ZNO6;Q15233;P41182;Q9Y2X9;P54259;Q9H5H4;P10828;Q96AE4;Q15562;Q9GZS3;Q460  
N3;O96019;Q9HC52;Q01664;P55197;Q8NBB4;O00570;Q8N3X6;P82979;Q96H40;P49910;Q8N5U6;Q153  
26;Q9NZV7;Q96IS3;Q86UQ8;P18847;Q9UHX1;P0CJ78;P51531;Q8N9N5;Q32MQ0;P49716;P41970;Q9HA  
F1;Q6P2D0;Q9HCL3;Q6U7Q0;Q13111;Q8WXF8;A6NIX2;Q8TD23;Q9BW11;Q9NQ87;Q5PSV4;P13349;Q96S  
K3;P61457;Q96IT1;Q147U1;Q15697;Q96LW1;Q9NZL3;Q6VUC0;O96004;Q92985;Q6P1K2;Q15059;Q9UL  
49;Q7Z6R9;Q8HWS3;Q7L2R6;O00167;Q8N1B3;P08151;Q9BZE3;Q9C086;P49750;Q01196;Q00613;O434  
39;Q99676;O75478;Q9BRG1;Q86UU0;Q96T88;Q13772;Q96SL8;P37275;Q8IYW8;Q14140;O75081;Q5SX  
M2;Q05516;Q32MZ4;P20749;Q8NF64;Q05481;Q02930;Q9HD15;Q9NVW2;Q8NCK3;Q460N5;Q8NDW4;O002  
57;O60543;O75820;Q9NZI6;P49116;Q7Z7J5;P10074;Q9HCD5;O60315;Q04206;Q99551;Q8WYP5;Q9P0  
L1;Q9H944;P12980;Q14119;P50548;Q9H4Z2;Q92870;Q6P9A1;Q96MA1;Q16633;Q9ULV5;Q8IXT2;Q96P  
Q6;Q86SE9;Q8N782;Q96NL3;Q8WTR7;Q6P1N0;Q13547;A8MV65;Q9NP66;Q05195;Q8TAW3;Q96AV8;Q9BT  
T4;Q9BXX3;P63167;P51815;P14373;Q5VWX1;Q14103;Q9UIS9;O00712;Q9NZI5;Q99990;Q93074;Q8TF  
20;Q01201;Q6UUV9;Q9HB58;Q6ZR52;Q15528;Q99684;P25271;Q9UDV7;Q14814;P39880;P18850;Q8TF  
68;Q3KQV3;P50549;P32780;Q99594;O94983;Q8WUH2;Q8IUE0;Q9P255;A6H8Y1;Q8NC26;P17483;P143  
16;O43296;Q6R2W3;Q76L83;O94776;Q9H4T2;O15379;O75486;O15266;P36956;P18615;A6NFD8;O959  
48;O14709;C9JBD0;P41161;Q08ER8;P0C7M4;Q9BQ87;Q14192;Q5T5D7;Q9BWW4;Q9NQX1;Q7Z5D8;Q9Y5  
R5;Q92800;Q6NZI2;Q96EZ8;Q15633;Q6ZMW2;O95503;Q4LE39;Q9UER7;Q16520;P15976;O95931;Q9BW  
X5;Q9H307;Q5T3J3;O75586;Q8N196;Q9Y2G9;Q96JC9;Q9H0E3;Q2M3W8;Q15542;O14686;O15535;Q6MZ  
P7;Q6S9J6;Q7RTT5;Q03933;P28356;Q92754;Q9HC44;Q96ST3;O14628;Q8TBC5;Q96RK0;Q8N8G2;O153  
50;Q6ZSS3;Q92759;Q6ZRS2;P35638;Q8TDY2;O75448;Q92945;Q9UFW8;Q9NPI1;P54198;Q6ISB3;Q024  
47;Q99909;Q9NSD4;Q16534;Q2M1K9;Q04727;Q96T58;Q8WY36;Q8N1L9;O60244;Q5HYR2;Q86YP4;Q96S  
C8;P52657;O14896;Q8IX12;Q9Y534;P41218;O00401;P67775;Q8WUF5;P17030;P51610;Q14934;Q9H9  
81;Q9BWP2;P17031;Q7Z340;P42704;Q8UE3;Q53TQ3;P09086;O75362;Q16670;Q8N95;Q9Y5A6;Q9Y3  
Y2;Q8TF47;O75971;O75175;P17036;O94993;Q9ULJ3;O14776;Q8TBE0;D6RGH6;P17040;Q15560;P176  
76;Q2QGD7;P17482;Q9P086;P17010;O95625;P11308;Q53H80;P17038;Q8N5Y2;Q7L1Q6;Q9Y4Z2;Q9UK  
12;Q96MH2;Q8WYN3;P38935;Q8NDY6;E9PGG2;Q9NYF8;P08047;Q8TC21;P11473;Q7RTU5;Q00978;Q994  
71;Q9UHX3;Q96C28;O75928;Q7RTT6;Q96RJ6;O75182;Q8NDT2;Q13342;Q9ULJ6;Q15022;O43829;P164  
15;Q9BSM1;Q8NCH5;Q5VVH5;Q86Y25;Q01892;P0CG00;Q8N5F7;Q96JS3;Q8N3S3;P09017;Q8N184;Q96N  
J6;P22670;O60563;Q8WUB8;O95416;Q13129;Q9H7S9;Q8N726;P11831;P20265;Q7Z3V5;P15172;P0C7  
T5;Q3SXZ3;Q86VP6;O43248;Q6NT76;Q14CW9;P28702;Q9UFB7;Q6IQ21;Q00577;P48552;Q13398;Q53G  
I3;Q8IU81;Q96PT3;Q96MR9;P48378;Q15561;Q8NBZ0;Q14134;Q96BV0;O75446;P35227;A8MT65;A6NK  
53;Q12962;Q86TJ2;P28069;Q9BUY5;Q9028;O60663;Q9UKW6;Q15424;P78545;B2RXXF5;Q9BF19;Q7KZ  
85;Q8N3J9;Q9Y2P0;P09629;P63165;Q9NS37;Q9BQG0;Q9Y2H8;Q9UQR0;Q96AQ7;P52743;Q96GN5;Q499  
Z4;P54845;Q8IXH6;P42568;Q15937;Q9Y4A8;Q9BXG8;Q9ULK4;Q00444;P27695;Q15723;Q15744;Q9GZ  
R2;Q8N7G0;Q8IX03;Q08050;Q68EA5;P11142;O15405;P61978;Q9Y5B6;O95163;P62324;Q9UKL0;O607  
11;Q14765;Q96IF1;P29084;Q13112;Q68DY1;Q5TB30;Q8IXW5;Q7RTV3;Q12972;P27797;Q9UQL6;Q8N5  
P1;Q8TAK5;Q00059;O43524;P53999;Q96G23;Q99549;Q9HCG1;O43593;Q96G25;Q9ULW3;Q6P280;Q9NR  
G4;Q5PRF9;Q99966;O95159;Q8TAU3;Q9UQB3;Q92994;Q8N5J4;Q9UL58;Q13469;Q8N0Z2;Q5U623;P527  
47;Q9UHV2;P78412;Q96SR6;P0C860;P55347;A6NLW8;Q5THR3;P78317;P11532;Q14929;Q99504;Q5T6  
19;Q96CJ1;P23769;P54253;Q14593;Q15929;O94992;P35548;P55199;Q4G112;Q9UIV1;Q8TB69;Q997  
43;P20719;Q5T6S3;Q15072;Q15935;P15036;Q96C00;Q9BYK8;Q8IVP9;Q6W2J9;P51826;Q14186;Q63H  
K3;Q96608;P40426;Q59GR2;Q15699;Q9U1L5;Q12800;A8MZ59;Q15532;O60828;Q8NE65;O75524;A8MU  
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Pathogen[ P0C214] interacts with 1671 human

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Pathogen[ P03346] interacts with 2127 human

partners: {Q86UQ0;E7ETH6;Q96T92;Q15723;A6NK53;Q6R2W3;Q92681;Q12888;P31271;Q06330;Q990  
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Pathogen[Q85601] interacts with 1809 human partners: {Q5T230;Q9UQR1;Q9HCZ1;Q8N8C0;Q9Y534;Q03701;Q6R2W3;Q96RK1;Q9ULM2;Q9HCG1;P542  
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Pathogen[ P14079] interacts with 1773 human partners: {Q969J2;O14776;Q9UQL6;Q96JN0;Q15637;Q15916;Q9NZ81;Q96SC8;Q3T8J9;Q9BWM5;P98168;O60225;P07199;Q8IYX0;Q8NHY6;Q9NV72;Q92664;Q14585;Q6AW86;P48552;P15622;P52738;Q96EK7;Q96C00;Q7Z5D8;Q5SXM2;Q13952;O60284;Q9UJN7;Q9UQR1;O15379;Q0D2J5;Q96CS4;Q9UPW6;Q9UK12;Q9H204;Q9NSD4;Q15560;Q8WUH1;Q96A56;O95159;Q9Y5B9;Q8N2W9;Q32MQ0;Q8N9N2;Q9HBT8;P52741;Q9HAK2;Q5THR3;Q9BW11;Q12986;Q8IZC7;Q04725;P35711;Q99623;Q9NQX1;Q3SY52;E9PGG2;Q13772;P51504;Q9HOE3;O00422;Q8N9Z0;O60244;Q8N895;Q99459;P41218;Q9NPI1;O95402;P17098;Q15014;Q8IX12;P08151;P15036;Q5JVS0;Q8N7U7;P13056;O15164;Q9Y2X0;O43513;Q8WYK2;P0CJ89;O75123;Q9HAZ2;O14867;P0CJ88;O75467;Q68DY9;P55199;O95628;P0C7M4;P10243;Q9H7R0;Q9UKV8;Q99743;Q06730;Q53GI3;O75346;P60002;Q86VN1;P16383;P62508;Q8WZ33;P33076;Q9HBT7;Q4G112;P09874;Q96JB3;Q8N1B3;P78543;Q9Y4A5;Q5MCW4;Q96RJ6;A8MTY0;P52742;Q96T23;Q8TD23;Q8IXH6;P5HYK9;Q6XYB7;O75618;Q96IR2;Q08945;Q13506;Q005BQ5;Q96RS0;O75151;Q8WTR7;Q53H80;Q9UL36;P55055;A6NEJ1;Q8N8L2;P0CG31;O60925;Q5T1R4;O00291;O95416;Q92994;P11142;Q86WP2;A8K8V0;Q10587;Q9HAJ7;Q9Y5Q3;O60381;Q9BYK8;Q9UDV6;Q9NWB6;Q8WXB4;Q15561;Q9Y2Y4;Q9BZK7;Q71F56;Q155

13737

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13738

Pathogen[ P03383] interacts with 1333 human

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13739

Pathogen[ P03410] interacts with 1780 human

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Pathogen[ P14075] interacts with 1290 human partners: {Q04727;Q9H307;Q16633;Q9NQ33;P28069;P42704;Q8N196;Q96EB1;Q3L8U1;Q5VWX1;Q0D2J5;Q00059;Q9NZL3;Q9C0F3;P52630;Q5VTR2;Q86UU0;Q14781;Q494X3;Q9BY41;Q9UN30;Q6P4R8;P17480;P17029;P49336;P06733;P05204;Q68DY1;Q9NTW7;Q15059;P82979;Q5H9L2;Q8NI51;Q9Y6J9;Q96ST3;Q9NSC2;O00213;Q16576;Q92585;Q15572;A8MV65;P43355;O14646;Q9UHL9;P35869;Q3T8J9;O60663;Q8TAQ5;P63165;P51815;Q96S65;Q9GZV5;P51825;Q96QR8;Q15929;Q99607;Q8IXW5;Q6V9R5;Q3KNV8;Q7RTT5;P54253;Q9H5Q4;Q12962;Q02577;Q8TAD8;Q86U70;Q6RFH8;Q8WXF1;Q9Y5B6;P11532;P13984;Q99608;Q85X95;Q9Y5A6;Q969J2;Q9H175;Q8TSE9;Q9NPJ6;Q8N9N5;A8MTY0;Q99504;Q96GP5;Q6ZN32;Q00613;Q9GZU2;Q92681;P23246;Q92759;Q9HAP2;Q8N187;Q9H2F5;Q99990;P12956;Q14207;P50548;P11142;Q02878;Q16533;Q9BRU2;B4DXR9;P24863;Q8N141;Q13105;P55198;Q04206;Q63ZY3;P21675;Q6ZN08;P17482;Q86YD1;Q9H4I2;Q9NWB6;Q969R5;Q9Y5R5;Q15528;O15265;Q9UM63;Q7Z591;P51523;P78337;Q9H1I8;Q5TGS1;Q9HBD4;P40424;Q14526;Q969S8;P16989;P52737;P0C7X2;Q99687;O75030;Q9UBW72;Q9HAJ7;O60248;Q9UBU8;Q92966;P25440;Q96QT6;Q9UQR1;Q8NEM1;Q89999;Q99574;Q9NX70;Q8N371;P52657;Q8IXJ9;Q96JS3;Q52LR7;P68036;Q8NC26;Q13495;Q9NPI1;P05412;Q16385;Q15542;Q8N488;Q04725;P18615;Q96NJ6;P42226;Q95503;Q5BKZ1;P40425;Q12800;Q14938;P11474;Q9Y2D1;Q2M3W8;P68104;Q01543;Q9UQR0;Q9UM07;Q15759;Q9BQA5;Q14103;Q6ZN01;Q9ULM6;Q15928;P62324;O75475;Q9NYV6;Q4LE39;Q16656;Q8IY57;Q9C0F0;Q14593;P14859;O60828;P22670;Q92831;P0CI00;A6NHJ4;P11831;O60481;P52747;Q9BWW4;Q15906;Q8N1L9;Q9NPF4;P10828;Q9BXJ9;Q13506;Q8N42;P78545;Q14588;P78395;Q92782;Q8N9R8;Q86XF7;Q15697;Q8NB50;P17861;Q15014;O60765;Q8NB4;Q08945;Q15562;Q6ZNG1;Q9Y224;O00470;P27695;Q9Y2A4;Q8N140;P51532;Q6U7Q0;P28347;Q9Y3Y2;Q15532;Q9UMS5;P53567;Q9GZW5;Q12901;Q9YU94;Q8TD23;Q9UHR5;Q07666;Q96HR3;Q76L83;P252Y8;P0CB33;P52736;Q96MR9;O43541;P07199;Q15937;Q96SZ4;Q9UKN5;Q8N1B3;Q9C086;Q8N5F7;Q14686;Q0D2K3;O75582;Q9UHX1;Q01201;Q01658;O75444;Q96MH2;Q9H7R5;Q53T94;Q9H116;P17275;Q9Y4A8;Q00403;Q6ZYL4;Q7L2R6;P82094;A6NDZ8;Q13901;Q9UHJ3;P57086;Q8TE85;Q71F56;O75362;O75446;Q06546;P0C1Z6;Q6NUN9;O60563;Q9Y252;O14776;P43268;Q9P2R6;Q8WYP5;P29083;O75971;P23769;Q9NRL2;P61244;Q9UKL0;Q9NSI6;Q9UID6;P50613;Q9Y2G7;P59923;Q96T58;P41218;P19419;Q5H9F3;P41212;Q12905;Q14241;Q92600;Q6P9A1;P18847;Q8WVC0;Q01860;Q9UHP1;Q6ZW49;Q86TU7;P28698;Q9Y468;Q8N782;Q9H7R0;P38935;Q96SL8;Q9UGP4;Q14839;Q9UBD0;Q03933;Q9HC44;P48380;Q92945;P51610;P62633;Q33E94;O15527;Q9HBT7;Q15652;O15015;P35548;Q96C28;P11161;Q12837;Q15561;Q6ZQV5;P15172;Q96ND8;Q6P1X5;P17096;P56524;Q9UK11;O43918;P17036;O00422;Q01844;O14709;Q08050;Q15714;Q9H9Z2;O43186;Q5PSV4;P18146;Q9NYW8;P19484;Q9HCE1;Q9NQG5;Q96EZ8;P0C7T5;Q15047;Q16384;Q9P1T7;O60675;Q95625;Q99576;P29084;O95619;Q96R0;Q16520;Q95931;Q6ECI4;Q6IA86;Q86VE0;Q9Y2N7;P42771;Q7LBC6;P20265;P33076;Q6RSH7;Q9UH92;Q53H80;Q92922;O15226;Q86VN1;Q8NDN9;Q3MIS6;Q7KZ85;Q92870;Q9Y603;P49750;Q9P086;O94776;O75925;Q9HAH1;P10244;Q9NQR1;Q9Y2V2;P17019;Q96RK1;P35638;Q719H9;Q8TDY2;P50750;P15822;Q95218;O60583;P42568;Q92994;P31249;Q9UNP9;A8MT65;Q6ISB3;Q95997;Q9Y250;Q02080;Q9ULX9;Q93062;Q15910;Q96IT1;Q53ET0;P78347;Q92988;O43167;Q7Z7C8;Q12906;Q92800;Q99543;P39687;O75175;Q5SXM2;Q15544;Q9H091;Q8WUF5;Q8IUD2;O95159;Q9HAW0;Q02040;Q9UFW8;Q8TAF7;Q99717;O75448;O00167;Q9Y4A5;Q9UKV0;O00716;P56693;Q9H9C1;O75494;Q7RTU5;Q00978;Q8WW38;Q8IX12;P20226;Q9BT49;P15336;P04198;Q13111;Q9UHV2;Q8N2W9;Q9UL58;Q9UBB5;Q5VVH5;Q8WWY6;Q92754;Q9NZI7;Q9UI95;Q15560;Q9NZN8;Q9BRR0;P10242;Q16666;O94983;Q15796;Q96BN2;Q08AN1;Q96N95;Q9NWA0;Q9NQ87;P0CH99;Q8NHY6;Q03936;Q13148;P15923;Q6ZMV8;P15408;Q13398;Q53GI3;Q86W11;Q8N7Q3;Q9H2G4;Q9NYF8;Q14585;Q7Z3K6;Q12872;Q86YW9;Q14209;Q13952;Q9ULJ3;Q9BYE7;O43365;O75182;Q13547;Q99856;Q00570;Q05195;Q16594;P54198;O94763;P26358;Q6S9J96;Q9BQI9;Q8IYN2;Q8N0Z2;Q96IZ0;P13056;P01106;Q92750;P39880;Q8WVJ9;Q92993;Q96H20;A6H8Y1;Q8NFZ5;P53805;Q9Y618;O14497;O75290;Q5VWG9;Q5081;O95402;Q07687;O14503;Q9Y2Q1;P17040;P54252;P31269;O75376;Q92748;Q01826;Q4G112;Q92785;Q16670;Q96AQ7;Q8WV37;Q8TEE9;P17040;P27540;Q5VUG0;P55347;O75586;Q9H0E3;Q7RTV3;Q8N5A5;Q9UQB3;Q99459;C9JBD0;Q9BTT4;Q02556;Q9NUQ3;Q03468;Q9ULD5;P35711;P41162;O00257;O96004;Q96NI8;Q13568;P17098;Q96MN9;O00291;Q13485;P35232;Q94992;A8MUZ8;O00255;Q8N7H5;P09629;Q93074;O94864;Q6P1J9;Q8WTR7;Q9NPF1;Q92499;P24278;Q14186;Q6NZI2;Q86XN6;Q09028;Q10586;Q9NPF5;P15036;Q5TEC3;Q9H204;Q8IYI8;Q15853;Q8N5U6;Q9AQ70;P49116;Q12857;O95628;Q9UKL3;O96019;P46100;Q9HCL3;Q92541;Q8NBZ0;Q6IE81;Q04726;O14770;Q8IWS0;Q06587;Q5VIY5;Q9H5I1;O75478;Q96JC9;Q8N7U7;Q9BQG0;Q9NY43;Q5VUA4;Q92539;Q9ULV5;P28324;Q12986;Q8N108;Q9Y692;O00401;Q8N344;Q92670;Q9H5J8;Q15326;O75618;Q14CW9;Q8TA94;Q9Y3C7;Q9NQX1;Q9NZV7;P32519;Q4LE28;O14948;Q8NEF9;Q14653;A6NGD5;Q9UPW6;Q06455;Q96D98;Q15370;Q8NCF5;Q06547;Q01664;Q13490;O95983;Q53TQ3;O14744;P54845;Q9UHB7;Q9HAF1;P23193;Q58F21;Q96JM7;Q05481;Q96LA8;Q96RE7;Q9UHV7;Q9UNY5;O75528;Q12830;P52746;Q8N4W9;Q9P0L1;Q99909;Q9BUY5;Q8N228;Q9Y6B2;Q5HYR2;P50221;Q32M78;Q13469;O96017;Q96N22;Q15650;Q96PK6;Q9Y2T7;Q6W2

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13741

Pathogen[ P0C206] interacts with 1939 human  
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Pathogen[ P03363] interacts with 1915 human partners: {A2RRD8;Q719H9;Q8IZX4;Q86TJ5;Q49AA0;Q86X95;Q6IE81;Q92886;Q16236;Q9NQX1;Q16587;P22681;Q9NPF5;P56179;Q5TGS1;Q15654;Q7RTS1;Q96S94;Q13112;Q5JUW0;Q86VE0;O15370;Q86XU0;Q8TAK6;Q15911;Q9Y5A6;Q9H160;Q9P0L1;Q14653;Q8NB42;Q86U70;A8MQ14;Q9UNN4;Q53QV2;Q9NR55;Q5VTD9;O75123;Q15699;P51858;Q9C0F3;P52630;O95619;P12956;Q9UBC0;Q8NHY6;Q5T0B9;Q96QT6;P13682;Q6S7J96;O75820;Q3KNS6;Q8TEE9;Q9UFW8;O15266;Q99684;Q96RS0;Q06547;P31273;O43812;Q03923;Q2M2Q4;Q15233;Q8IUM7;Q15528;Q6P9A3;Q9UKD1;Q8NCK3;Q06455;Q13490;Q6ZMY9;P17535;P35789;O14901;O75373;Q9Y252;Q5SVQ8;Q6PN17;P98168;Q9GZN2;Q9H8N7;P18848;Q9UIW0;Q8N8G2;Q9ULW3;O14744;O94915;Q15834;P08048;O75461;Q8IXJ9;Q96JC9;Q13105;A6NKF2;P35453;Q96JM7;O75081;Q8NFW5;Q8N9N2;P0C7T5;P17027;P49716;P0CH99;Q3L8U1;Q5VUA4;Q9NSD4;Q03989;Q8N9F8;Q96RE7;Q86V71;Q6IQ21;Q9BXP5;Q16649;Q6VMQ6;Q14765;Q12830;Q8N5U6;Q8N5Y2;Q99592;Q8N1G0;P10828;Q9H963;Q9UJQ4;Q99909;Q969J2;Q9Y4Z2;Q9Y5B6;Q8N988;Q07666;Q8N9HF7;P29374;Q6P1K2;Q8N2I2;Q9UHL9;Q96LW1;P28698;Q53ET0;Q8IZC7;O60543;Q92985;Q8NE65;Q96AQ7;Q96N22;Q9NQZ8;O95948;Q6DD87;Q9GZS3;Q9NWH9;Q59GR2;P19622;P23246;Q99623;P29083;P29084;Q8TAQ5;Q96T

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- 13743 [Cluster 1250]GO:0070424+P biological\_process [name] regulation of nucleotide-binding oligomerization domain containing signaling pathway [def] "Any process that modulates the frequency, rate, or extent of a nucleotide-binding oligomerization domain containing (NOD) pathway." [GOC
- 13744 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13490}



13745 Pathogen[ P0C214] interacts with 2 human partners: {Q13490;P98170}  
13746 Pathogen[ P03346] interacts with 3 human partners: {Q13489;P98170;Q13490}  
13747 Pathogen[ Q85601] interacts with 2 human partners: {Q13490;P98170}  
13748 Pathogen[ P14079] interacts with 1 human partners: {Q13490}  
13749 Pathogen[ P03383] interacts with 1 human partners: {Q13490}  
13750 Pathogen[ P03410] interacts with 1 human partners: {Q13490}  
13751 Pathogen[ P14075] interacts with 1 human partners: {Q13490}  
13752 Pathogen[ P0C206] interacts with 3 human partners: {P98170;Q13489;Q13490}  
13753 Pathogen[ P03363] interacts with 3 human partners: {Q13490;Q13489;P98170}  
13754 [Cluster 1251]GO:0046415+P biological\_process [name] urate metabolic process [def]  
"The chemical reactions and pathways involving urate, the anion of uric acid,  
2,6,8-trioxypurine, the end product of purine metabolism in certain mammals and the main  
excretory product in uricotelic animals." [ISBN  
13755 Pathogen[ Q2Q067] interacts with 1 human partners: {Q14397}  
13756 Pathogen[ P0C214] interacts with 2 human partners: {Q14397;Q5VZK9}  
13757 Pathogen[ P03346] interacts with 2 human partners: {Q14397;Q5VZK9}  
13758 Pathogen[ Q85601] interacts with 2 human partners: {Q5VZK9;Q14397}  
13759 Pathogen[ P14079] interacts with 1 human partners: {Q14397}  
13760 Pathogen[ P03383] interacts with 1 human partners: {Q14397}  
13761 Pathogen[ P03410] interacts with 2 human partners: {Q14397;Q5VZK9}  
13762 Pathogen[ P14075] interacts with 1 human partners: {Q14397}  
13763 Pathogen[ P0C206] interacts with 2 human partners: {Q5VZK9;Q14397}  
13764 Pathogen[ P03363] interacts with 2 human partners: {Q14397;Q5VZK9}  
13765 [Cluster 1252]GO:0034138+P biological\_process [name] toll-like receptor 3 signaling  
pathway [def] "Any series of molecular signals generated as a consequence of binding to  
toll-like receptor 3." [GOC  
13766 Pathogen[ Q2Q067] interacts with 29 human  
partners: {P01100;Q8IUC6;Q92985;Q15653;Q04206;Q9NYJ8;Q8N5C8;O75582;Q14653;Q9Y6K9;Q131  
14;P19419;P19838;P15336;Q8N5C8;P25963;P0CG47;O14920;P45984;Q00653;P0CG48;O43318;P629  
87;O15111;Q15759;Q16829;Q02078;Q15750;P62979}  
13767 Pathogen[ P0C214] interacts with 33 human  
partners: {Q00653;O15111;Q9Y6K9;P19838;P15336;Q8IUC6;Q14164;P01100;P19419;Q04206;Q156  
53;O43318;Q02078;Q8N5C8;Q92985;P0CG48;P25963;Q16829;Q14653;O75582;P62987;Q15750;P054  
12;Q8N5C8;Q13114;Q15759;P0CG47;P45984;P16220;P62979;O14920;Q9NYJ8;P18846}  
13768 Pathogen[ P03346] interacts with 34 human  
partners: {Q9Y6K9;P05412;P45984;Q02078;O15111;P16220;P15336;P62987;P25963;Q8N5C8;Q156  
53;P19419;P0CG48;Q04206;Q13114;Q8N5C8;Q9NYJ8;O75582;Q15750;Q14653;Q16829;P62979;Q8IU  
C6;Q15759;P0CG47;P45985;P19838;O14920;O43318;Q92985;P01100;Q14164;P18846;Q00653}  
13769 Pathogen[ Q85601] interacts with 33 human  
partners: {Q02078;Q15750;Q9NYJ8;Q8IUC6;O15111;P19419;Q16829;P18846;P0CG48;Q15653;Q131  
14;Q8N5C8;P01100;Q14653;Q14164;Q9Y6K9;Q8N5C8;P16220;O14920;Q04206;P05412;Q92985;O755  
82;P62979;Q15759;P0CG47;P45984;P62987;Q00653;P15336;O43318;P19838;P25963}  
13770 Pathogen[ P14079] interacts with 33 human  
partners: {Q8N5C8;Q02078;P0CG48;Q06413;O43187;P53779;Q14653;P52564;O75582;Q16829;Q8IU  
C6;Q92985;Q14164;Q15750;P62979;P62987;P45984;P45983;Q16644;Q8N5C8;Q15759;Q9Y6K9;P459  
85;P15336;Q9Y6Y9;Q13164;P05412;P0CG47;Q9Y239;P01100;P19419;Q13114;Q15653}  
13771 Pathogen[ P03383] interacts with 31 human  
partners: {O75582;Q14653;P16220;Q9Y6K9;P62987;Q8IUC6;Q00653;O14920;O15111;P19419;P188  
46;Q15653;O43318;Q8N5C8;Q92985;Q15759;P25963;P01100;P62979;P0CG47;Q04206;P45984;P0CG  
48;P15336;Q9NYJ8;P19838;Q13114;Q8N5C8;Q02078;Q15750;P05412}  
13772 Pathogen[ P03410] interacts with 36 human  
partners: {Q04206;P19838;P0CG48;O14920;Q9Y239;Q8N5C8;P19419;O15111;Q15750;O75582;Q146  
53;O43187;Q15653;P62979;P01100;P18846;O43318;Q16829;P45985;Q9NYJ8;Q8N5C8;P16220;P054  
12;Q9Y6Y9;P45984;P62987;P53779;Q02078;Q8IUC6;Q00653;Q9Y6K9;P25963;Q92985;P15336;P0CG  
47;Q13114}  
13773 Pathogen[ P14075] interacts with 31 human  
partners: {O15111;Q04206;Q15750;P05412;Q15759;O75582;P19419;P15336;Q15653;P25963;Q8NF  
Z5;Q8N5C8;O14920;P0CG48;P62979;Q14653;O43318;P62987;Q13114;Q02078;Q8IUC6;P01100;P0CG  
47;P19838;Q00653;P16220;Q9Y6K9;Q92985;P18846;P45984;Q9NYJ8}  
13774 Pathogen[ P0C206] interacts with 34 human  
partners: {P0CG48;O14920;Q9Y6K9;Q13114;Q02078;P16220;Q8N5C8;O75582;P45984;P05412;P259  
63;P19419;Q8N5C8;O43318;P15336;Q15653;P18846;Q16829;P19838;Q14164;Q92985;P01100;Q042  
06;O15111;P62979;Q9NYJ8;P45985;P0CG47;Q8IUC6;Q00653;Q15750;P62987;Q15759;Q14653}  
13775 Pathogen[ P03363] interacts with 25 human  
partners: {Q14653;Q92985;O14920;Q04206;P25963;O15111;Q9NYJ8;P16220;Q9Y6K9;P19419;O433  
18;Q15750;P15336;Q15653;Q16829;Q00653;P18846;P62987;P19838;Q13114;P05412;Q8N5C8;Q8N5  
C8;P01100;Q02078}  
13776 [Cluster 1253]GO:0045040+P biological\_process [name] protein import into mitochondrial  
outer membrane [def] "The process comprising the insertion of proteins from outside the  
organelle into the mitochondrial outer membrane, mediated by large outer membrane  
translocase complexes." [GOC  
13777 Pathogen[ Q2Q067] interacts with 1 human partners: {P07900}  
13778 Pathogen[ P0C214] interacts with 2 human partners: {P34932;Q9Y512}  
13779 Pathogen[ P03346] interacts with 4 human partners: {P07900;Q9NS69;Q9Y512;P34932}  
13780 Pathogen[ Q85601] interacts with 3 human partners: {Q9Y512;P07900;P34932}  
13781 Pathogen[ P14079] interacts with 3 human partners: {Q9NS69;P07900;Q9Y512}



13782 Pathogen[ P03383] interacts with 1 human partners:{P07900}  
13783 Pathogen[ P03410] interacts with 3 human partners:{Q9Y512;Q9NS69;P07900}  
13784 Pathogen[ P14075] interacts with 3 human partners:{P07900;Q9Y512;Q9NS69}  
13785 Pathogen[ P0C206] interacts with 4 human partners:{P34932;Q9Y512;Q9NS69;P07900}  
13786 Pathogen[ P03363] interacts with 4 human partners:{P07900;P34932;Q9Y512;Q9NS69}  
13787 [Cluster 1254]GO:0035359+P biological\_process [name] negative regulation of peroxisome proliferator activated receptor signaling pathway [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the peroxisome proliferator activated receptor signaling pathway." [GOC  
13788 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8IXJ9}  
13789 Pathogen[ P0C214] interacts with 1 human partners:{Q8IXJ9}  
13790 Pathogen[ P03346] interacts with 1 human partners:{Q8IXJ9}  
13791 Pathogen[ Q85601] interacts with 1 human partners:{Q8IXJ9}  
13792 Pathogen[ P14079] interacts with 1 human partners:{Q8IXJ9}  
13793 Pathogen[ P03383] interacts with 1 human partners:{Q8IXJ9}  
13794 Pathogen[ P03410] interacts with 1 human partners:{Q8IXJ9}  
13795 Pathogen[ P14075] interacts with 1 human partners:{Q8IXJ9}  
13796 Pathogen[ P0C206] interacts with 1 human partners:{Q8IXJ9}  
13797 Pathogen[ P03363] interacts with 1 human partners:{Q8IXJ9}  
13798 [Cluster 1255]GO:0016540+P biological\_process [name] protein autoprocessing [def] "Processing which a protein carries out itself. This involves actions such as the autolytic removal of residues to generate the mature form of the protein." [GOC  
13799 Pathogen[ Q2Q067] interacts with 1 human partners:{P09874}  
13800 Pathogen[ P0C214] interacts with 1 human partners:{P09874}  
13801 Pathogen[ P03346] interacts with 1 human partners:{P09874}  
13802 Pathogen[ Q85601] interacts with 1 human partners:{P09874}  
13803 Pathogen[ P14079] interacts with 1 human partners:{P09874}  
13804 Pathogen[ P03383] interacts with 1 human partners:{P09874}  
13805 Pathogen[ P03410] interacts with 1 human partners:{P09874}  
13806 Pathogen[ P14075] interacts with 1 human partners:{P09874}  
13807 Pathogen[ P0C206] interacts with 1 human partners:{P09874}  
13808 Pathogen[ P03363] interacts with 1 human partners:{P09874}  
13809 [Cluster 1256]GO:0048541+P biological\_process [name] Peyer's patch development [def] "The process whose specific outcome is the progression of Peyer's patches over time, from their formation to the mature structure. Peyer's patches are typically found as nodules associated with gut epithelium with distinct internal structures including B- and T-zones for the activation of lymphocytes." [GOC  
13810 Pathogen[ Q2Q067] interacts with 1 human partners:{P15923}  
13811 Pathogen[ P0C214] interacts with 1 human partners:{P15923}  
13812 Pathogen[ P03346] interacts with 2 human partners:{P15923;Q8TAU0}  
13813 Pathogen[ Q85601] interacts with 1 human partners:{P15923}  
13814 Pathogen[ P14079] interacts with 1 human partners:{P15923}  
13815 Pathogen[ P03383] interacts with 1 human partners:{P15923}  
13816 Pathogen[ P03410] interacts with 1 human partners:{P15923}  
13817 Pathogen[ P14075] interacts with 1 human partners:{P15923}  
13818 Pathogen[ P0C206] interacts with 3 human partners:{P15923;Q13422;Q8TAU0}  
13819 Pathogen[ P03363] interacts with 2 human partners:{P15923;Q8TAU0}  
13820 [Cluster 1257]GO:0006928+P biological\_process [name] cellular component movement [def] "The directed, self-propelled movement of a cellular component without the involvement of an external agent such as a transporter or a pore." [GOC  
13821 Pathogen[ Q2Q067] interacts with 13 human partners:{O15511;P40763;Q8IZP0;O00401;P04792;Q92558;P23528;P10599;P63000;P35579;P08670;Q92556;O75969}  
13822 Pathogen[ P0C214] interacts with 19 human partners:{P60709;P63000;Q8IZP0;O14645;P36952;P04792;P52565;O75830;O75969;Q92556;P08670;Q92558;P10599;O15144;P40763;O00401;P63261;P18054;O15511}  
13823 Pathogen[ P03346] interacts with 23 human partners:{O15511;O15144;O75969;P35579;Q8IZP0;P60709;P18054;P52565;Q9NRF2;P26038;Q9Y664;Q92558;O15145;P08670;P10599;O14645;P23528;O00401;P40763;Q92556;P63000;Q9P2A4;P04792}  
13824 Pathogen[ Q85601] interacts with 18 human partners:{O00401;O15511;Q92558;P08670;O75969;P35579;P36952;P40763;P63000;P52565;P60709;P10599;P63261;P04792;O14645;P23528;Q8IZP0;O15144}  
13825 Pathogen[ P14079] interacts with 28 human partners:{P04083;P52565;P35579;P63261;Q9Y664;Q5JQC9;O75781;Q92558;Q9NP84;P47756;Q92556;P26038;Q8IZP0;O15145;O15511;P23528;P61158;Q9P2A4;P60709;O14645;Q05682;P10599;P08670;P49023;P04792;O75969;O15144;O00401}  
13826 Pathogen[ P03383] interacts with 11 human partners:{P08670;O15511;P36952;P63000;P04792;P10599;Q92558;O00401;P35579;P23528;O75969}  
13827 Pathogen[ P03410] interacts with 29 human partners:{O15511;O75781;P10599;P47756;P63000;Q05682;Q92558;Q5JQC9;O15145;O00401;O75969;P35579;P04792;Q9P2A4;P33241;Q92556;P26038;P36952;Q8IZP0;P08670;P63261;O15144;P23528;Q9NP84;Q9Y664;O14645;P52565;P40763;P60709}  
13828 Pathogen[ P14075] interacts with 10 human partners:{P04792;O15511;P23528;O75969;O00401;P35579;P08670;P63000;Q92558;P10599}

13829 Pathogen[ P0C206] interacts with 22 human partners: {O14645;O15511;P60709;Q92556;P47756;Q5JQC9;P52565;P04792;O15145;P36952;P63000;Q8IZP0;P63261;O75969;Q92558;P35579;O00401;P40763;O15144;P08670;P10599;P23528}

13830 Pathogen[ P03363] interacts with 21 human partners: {Q8IZP0;P52565;P60709;P35579;Q92558;P63000;P36952;O15144;O14645;P08670;Q92556;O15143;P23528;O75969;O00401;P63261;Q9Y664;P04792;O15145;O15511;Q9P2A4}

13831 [Cluster 1258]GO:0060020+P biological\_process [name] Bergmann glial cell differentiation [def] "The process in which neuroepithelial cells of the neural tube give rise to Brgmann glial cells, specialized bipotential progenitors cells of the cerebellum. Differentiation includes the processes involved in commitment of a cell to a specific fate." [GOC

13832 Pathogen[ Q2Q067] interacts with 2 human partners: {P14136;P08670}

13833 Pathogen[ P0C214] interacts with 2 human partners: {P14136;P08670}

13834 Pathogen[ P03346] interacts with 2 human partners: {P14136;P08670}

13835 Pathogen[ Q85601] interacts with 2 human partners: {P08670;P14136}

13836 Pathogen[ P14079] interacts with 2 human partners: {P14136;P08670}

13837 Pathogen[ P03383] interacts with 2 human partners: {P08670;P14136}

13838 Pathogen[ P03410] interacts with 2 human partners: {P08670;P14136}

13839 Pathogen[ P14075] interacts with 2 human partners: {P14136;P08670}

13840 Pathogen[ P0C206] interacts with 2 human partners: {P14136;P08670}

13841 Pathogen[ P03363] interacts with 2 human partners: {P08670;P14136}

13842 [Cluster 1259]GO:0043687+P biological\_process [name] post-translational protein modification [def] "The process of covalently altering one or more amino acids in a protein after the protein has been completely translated and released from the ribosome." [GOC

13843 Pathogen[ Q2Q067] interacts with 16 human partners: {P55735;P34949;P63241;O95394;P27797;Q9BU89;Q16222;P53992;O95486;O94855;P49366;O95487;Q9GZV4;Q15436;Q14442;Q9H1Y0}

13844 Pathogen[ P0C214] interacts with 19 human partners: {P55735;Q9BU89;P53992;Q9GZV4;Q16222;P63241;Q15436;P49366;O95487;P49257;Q8NB77;Q9H1Y0;P27797;P34949;O95394;O15305;Q96EK6;O95486;O94855}

13845 Pathogen[ P03346] interacts with 18 human partners: {P55735;Q9GZV4;P49257;Q16222;P63241;O94855;Q15436;P49366;O95486;P27797;Q9HC U5;O95394;P34949;Q9BU89;Q9H1Y0;O95487;Q14442;P53992}

13846 Pathogen[ Q85601] interacts with 16 human partners: {P34949;Q9GZV4;O95487;P27797;P63241;Q15436;Q16222;P49257;Q9H1Y0;P55735;Q96E K6;O95486;O95394;O94855;Q9BU89;P53992}

13847 Pathogen[ P14079] interacts with 43 human partners: {Q5SRI9;O43292;P49257;Q8N307;Q16222;Q14442;O15305;O95487;Q96S52;P39656;P57054;O94855;Q9BT22;Q9BRB3;P53992;P04844;Q9Y2B2;O94777;Q969N2;Q9H1Y0;Q9NYU1;Q9P2X0;O95394;Q9BU89;Q9NYU2;P34949;Q8NBJ7;Q8NBK3;P61803;Q9H490;P63241;Q8TAX7;P55735;P15941;Q96A A3;Q96EK6;O95486;Q8TBF5;Q9GZV4;Q5SSG8;Q9UBM8;P46977;P49366}

13848 Pathogen[ P03383] interacts with 14 human partners: {P34949;P55735;O95487;Q9GZV4;O95486;P63241;Q9H1Y0;Q15436;P49366;O94855;O95394;P53992;Q9BU89;P27797}

13849 Pathogen[ P03410] interacts with 40 human partners: {Q9BU89;Q9H1Y0;Q8NBJ7;Q5SSG8;P49257;O94855;P53992;P15941;Q9Y2B2;Q16222;Q8N307;P34949;O94777;Q96EK6;Q8TAX7;Q14442;Q96S52;Q5SRI9;Q15436;Q96DR8;Q9NYU1;P49366;O95486;Q9BRB3;Q9BT22;P04844;Q9HCU5;O15305;Q969N2;P63241;Q9GZV4;P55735;P39656;Q9H490;O95394;P61803;Q9P2X0;O95487;Q9NYU2;P27797}

13850 Pathogen[ P14075] interacts with 19 human partners: {O94777;Q5SRI9;Q14442;Q9H1Y0;P34949;Q9GZV4;P63241;P53992;P55735;P49366;Q9BU89;Q8TAX7;O95487;P27797;Q15436;O95394;O94855;Q96EK6;O95486}

13851 Pathogen[ P0C206] interacts with 24 human partners: {Q8NBJ7;Q5SRI9;Q9GZV4;P27797;Q16222;O94855;P39656;O95394;Q14442;P55735;O94777;P34949;P49366;O95486;Q9H1Y0;P49257;O95487;Q9Y2B2;Q96EK6;P63241;P53992;Q9BU89;Q8TAX7;Q15436}

13852 Pathogen[ P03363] interacts with 12 human partners: {Q9GZV4;Q16222;Q15436;P49366;O95486;P27797;P63241;P53992;O95487;P55735;O94855;Q9H1Y0}

13853 [Cluster 1260]GO:0008589+P biological\_process [name] regulation of smoothened signaling pathway [def] "Any process that modulates the frequency, rate or extent of smoothened signaling." [GOC

13854 Pathogen[ Q2Q067] interacts with 2 human partners: {P08151;Q92793}

13855 Pathogen[ P0C214] interacts with 3 human partners: {P32243;Q92793;P08151}

13856 Pathogen[ P03346] interacts with 5 human partners: {Q68CZ1;Q9BT04;Q92793;P32243;P08151}

13857 Pathogen[ Q85601] interacts with 4 human partners: {P08151;P32243;Q92793;Q9BT04}

13858 Pathogen[ P14079] interacts with 7 human partners: {P08151;Q92793;Q68CZ1;P54826;Q4AC94;P32243;Q9BT04}

13859 Pathogen[ P03383] interacts with 3 human partners: {P32243;Q9BT04;Q92793}

13860 Pathogen[ P03410] interacts with 6 human partners: {Q4AC94;Q9BT04;Q92793;P54826;P32243;Q68CZ1}

13861 Pathogen[ P14075] interacts with 4 human partners: {Q9BT04;Q92793;P32243;P54826}

13862 Pathogen[ P0C206] interacts with 5 human partners: {Q9BT04;Q92793;P32243;P08151;P54826}

13863 Pathogen[ P03363] interacts with 4 human partners:{P08151;P32243;Q9BT04;Q92793}  
13864 [Cluster 1261]GO:0016446+P biological\_process [name] somatic hypermutation of immunoglobulin genes [def] "Mutations occurring somatically that result in amino acid changes in the rearranged V regions of immunoglobulins." [GOC  
13865 Pathogen[ Q2Q067] interacts with 4 human partners:{P54278;Q9UQ84;Q9NP87;P13051}  
13866 Pathogen[ P0C214] interacts with 6 human partners:{A8MQ11;Q9UQ84;P54278;Q9NP87;P40692;P13051}  
13867 Pathogen[ P03346] interacts with 4 human partners:{P13051;Q9UQ84;P54278;Q9NP87}  
13868 Pathogen[ Q85601] interacts with 7 human partners:{Q9UQ84;P13051;A8MQ11;Q9UGP5;P54278;Q9NP87;P40692}  
13869 Pathogen[ P14079] interacts with 9 human partners:{Q9UGP5;P40692;P54278;A8MQ11;O95744;Q9NP87;P52701;Q9UQ84;P13051}  
13870 Pathogen[ P03383] interacts with 2 human partners:{P54278;P13051}  
13871 Pathogen[ P03410] interacts with 9 human partners:{P40692;Q9UGP5;P52701;O95744;A8MQ11;P54278;P13051;Q9NP87;Q9UQ84}  
13872 Pathogen[ P14075] interacts with 2 human partners:{P13051;P54278}  
13873 Pathogen[ P0C206] interacts with 8 human partners:{P54278;Q9UQ84;P52701;P40692;A8MQ11;Q9UGP5;Q9NP87;P13051}  
13874 Pathogen[ P03363] interacts with 3 human partners:{P13051;P54278;Q9NP87}  
13875 [Cluster 1262]GO:0031325+P biological\_process [name] positive regulation of cellular metabolic process [def] "Any process that activates or increases the frequency, rate or extent of the chemical reactions and pathways by which individual cells transform chemical substances." [GOC  
13876 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NP71}  
13877 Pathogen[ P0C214] interacts with 3 human partners:{P53396;Q9UH92;Q9NP71}  
13878 Pathogen[ P03346] interacts with 2 human partners:{Q9NP71;Q9UH92}  
13879 Pathogen[ Q85601] interacts with 2 human partners:{Q9NP71;Q9UH92}  
13880 Pathogen[ P14079] interacts with 2 human partners:{Q9UH92;Q9NP71}  
13881 Pathogen[ P03383] interacts with 2 human partners:{Q9UH92;Q9NP71}  
13882 Pathogen[ P03410] interacts with 2 human partners:{Q9NP71;Q9UH92}  
13883 Pathogen[ P14075] interacts with 2 human partners:{Q9UH92;Q9NP71}  
13884 Pathogen[ P0C206] interacts with 2 human partners:{Q9NP71;Q9UH92}  
13885 Pathogen[ P03363] interacts with 2 human partners:{Q9UH92;Q9NP71}  
13886 [Cluster 1263]GO:0031111+P biological\_process [name] negative regulation of microtubule polymerization or depolymerization [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of microtubule polymerization or depolymerization." [GOC  
13887 Pathogen[ Q2Q067] interacts with 1 human partners:{Q7Z460}  
13888 Pathogen[ P0C214] interacts with 1 human partners:{Q7Z460}  
13889 Pathogen[ P03346] interacts with 1 human partners:{Q7Z460}  
13890 Pathogen[ Q85601] interacts with 1 human partners:{Q7Z460}  
13891 Pathogen[ P14079] interacts with 1 human partners:{Q7Z460}  
13892 Pathogen[ P03383] interacts with 1 human partners:{Q7Z460}  
13893 Pathogen[ P03410] interacts with 1 human partners:{Q7Z460}  
13894 Pathogen[ P14075] interacts with 1 human partners:{Q7Z460}  
13895 Pathogen[ P0C206] interacts with 1 human partners:{Q7Z460}  
13896 Pathogen[ P03363] interacts with 1 human partners:{Q7Z460}  
13897 [Cluster 1264]GO:0045006+P biological\_process [name] DNA deamination [def] "The removal of an amino group from a nucleotide base in DNA. An example is the deamination of cytosine to produce uracil." [GOC  
13898 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9NQT4;Q9NPD3;Q5RKV6}  
13899 Pathogen[ P0C214] interacts with 3 human partners:{Q5RKV6;Q9NPD3;Q9NQT4}  
13900 Pathogen[ P03346] interacts with 4 human partners:{Q5RKV6;Q9NQT5;Q9NQT4;Q9NPD3}  
13901 Pathogen[ Q85601] interacts with 3 human partners:{Q5RKV6;Q9NPD3;Q9NQT4}  
13902 Pathogen[ P14079] interacts with 3 human partners:{Q9NQT4;Q9NPD3;Q5RKV6}  
13903 Pathogen[ P03383] interacts with 3 human partners:{Q9NPD3;Q9NQT4;Q5RKV6}  
13904 Pathogen[ P03410] interacts with 3 human partners:{Q5RKV6;Q9NQT4;Q9NPD3}  
13905 Pathogen[ P14075] interacts with 3 human partners:{Q9NPD3;Q9NQT4;Q5RKV6}  
13906 Pathogen[ P0C206] interacts with 3 human partners:{Q9NPD3;Q5RKV6;Q9NQT4}  
13907 Pathogen[ P03363] interacts with 4 human partners:{Q9NQT4;Q5RKV6;Q9NPD3;Q9NQT5}  
13908 [Cluster 1265]GO:0009954+P biological\_process [name] proximal/distal pattern formation [def] "The regionalization process in which specific areas of cell differentiation are determined along a proximal/distal axis. The proximal/distal axis is defined by a line that runs from main body (proximal end) of an organism outward (distal end)." [GOC  
13909 Pathogen[ Q2Q067] interacts with 7 human partners:{P08151;P28356;O43248;Q07687;P40425;P40424;P31260}  
13910 Pathogen[ P0C214] interacts with 5 human partners:{P40424;O43248;Q07687;P40425;P08151}  
13911 Pathogen[ P03346] interacts with 10 human partners:{P31260;Q05925;P31270;P56177;P28358;P40425;P28356;P40424;O43248;P08151}  
13912 Pathogen[ Q85601] interacts with 6 human partners:{P08151;O43248;P31260;P40424;P40425;Q07687}  
13913 Pathogen[ P14079] interacts with 2 human partners:{P08151;Q07687}  
13914 Pathogen[ P03383] interacts with 3 human partners:{Q07687;P40424;P40425}  
13915 Pathogen[ P03410] interacts with 2 human partners:{Q07687;P40424}  
13916 Pathogen[ P14075] interacts with 3 human partners:{P40424;P40425;Q07687}

13917 Pathogen[ P0C206] interacts with 8 human partners:{Q07687;P40425;P40424;O43248;P28356;P08151;P31260;P56177}

13918 Pathogen[ P03363] interacts with 10 human partners:{P56177;P08151;P28356;O43248;P40425;P28358;P31260;Q05925;P40424;Q07687}

13919 [Cluster 1266]GO:0031848+P biological\_process [name] protection from non-homologous end joining at telomere [def] "A process that prevents non-homologous end joining at telomere, thereby ensuring that telomeres do not fuse." [GOC

13920 Pathogen[ Q2Q067] interacts with 4 human partners:{Q9NYB0;Q15554;Q96AP0;Q9H816}

13921 Pathogen[ P0C214] interacts with 3 human partners:{Q9H816;Q15554;Q9NYB0}

13922 Pathogen[ P03346] interacts with 4 human partners:{Q96AP0;Q15554;Q9NYB0;Q9H816}

13923 Pathogen[ Q85601] interacts with 3 human partners:{Q15554;Q9NYB0;Q9H816}

13924 Pathogen[ P14079] interacts with 4 human partners:{Q9NYB0;Q15554;Q9H816;Q96AP0}

13925 Pathogen[ P03383] interacts with 3 human partners:{Q9NYB0;Q15554;Q9H816}

13926 Pathogen[ P03410] interacts with 4 human partners:{Q9H816;Q15554;Q96AP0;Q9NYB0}

13927 Pathogen[ P14075] interacts with 4 human partners:{Q15554;Q96AP0;Q9H816;Q9NYB0}

13928 Pathogen[ P0C206] interacts with 4 human partners:{Q96AP0;Q15554;Q9H816;Q9NYB0}

13929 Pathogen[ P03363] interacts with 4 human partners:{Q9H816;Q15554;Q9NYB0;Q96AP0}

13930 [Cluster 1267]GO:0021510+P biological\_process [name] spinal cord development [def] "The process whose specific outcome is the progression of the spinal cord over time, from its formation to the mature structure. The spinal cord primarily conducts sensory and motor nerve impulses between the brain and the peripheral nervous tissues." [GO\_REF

13931 Pathogen[ Q2Q067] interacts with 2 human partners:{O15370;O95817}

13932 Pathogen[ P0C214] interacts with 2 human partners:{O95817;O15370}

13933 Pathogen[ P03346] interacts with 3 human partners:{Q06945;O15370;O95817}

13934 Pathogen[ Q85601] interacts with 2 human partners:{O15370;O95817}

13935 Pathogen[ P14079] interacts with 3 human partners:{O15370;O95817;P24588}

13936 Pathogen[ P03383] interacts with 1 human partners:{O15370}

13937 Pathogen[ P03410] interacts with 3 human partners:{O95817;O15370;P24588}

13938 Pathogen[ P14075] interacts with 1 human partners:{O15370}

13939 Pathogen[ P0C206] interacts with 2 human partners:{O15370;O95817}

13940 Pathogen[ P03363] interacts with 2 human partners:{O15370;O95817}

13941 [Cluster 1268]GO:0032515+P biological\_process [name] negative regulation of phosphoprotein phosphatase activity [def] "Any process that stops or reduces the activity of a phosphoprotein phosphatase." [GOC

13942 Pathogen[ Q2Q067] interacts with 2 human partners:{Q6NUP7;Q15257}

13943 Pathogen[ P0C214] interacts with 2 human partners:{Q15257;Q6NUP7}

13944 Pathogen[ P03346] interacts with 2 human partners:{Q15257;Q6NUP7}

13945 Pathogen[ Q85601] interacts with 2 human partners:{Q6NUP7;Q15257}

13946 Pathogen[ P14079] interacts with 1 human partners:{Q6NUP7}

13947 Pathogen[ P03383] interacts with 2 human partners:{Q6NUP7;Q15257}

13948 Pathogen[ P03410] interacts with 2 human partners:{Q15257;Q6NUP7}

13949 Pathogen[ P14075] interacts with 2 human partners:{Q15257;Q6NUP7}

13950 Pathogen[ P0C206] interacts with 2 human partners:{Q6NUP7;Q15257}

13951 Pathogen[ P03363] interacts with 2 human partners:{Q15257;Q6NUP7}

13952 [Cluster 1269]GO:000447+P biological\_process [name] endonucleolytic cleavage in ITS1 to separate SSU-rRNA from 5.8S rRNA and LSU-rRNA from tricistronic rRNA transcript (SSU-rRNA, 5.8S rRNA, LSU-rRNA) [def] "Endonucleolytic cleavage between the SSU-rRNA and the 5.8S rRNA of an rRNA molecule originally produced as a tricistronic rRNA transcript that contained the Small SubUnit (SSU) rRNA, the 5.8S rRNA, and the Large SubUnit (LSU) rRNA, in that order, from 5' to 3' along the primary transcript." [GOC

13953 Pathogen[ Q2Q067] interacts with 4 human partners:{P08865;P78316;P63220;O75691}

13954 Pathogen[ P0C214] interacts with 4 human partners:{O75691;P63220;P08865;P78316}

13955 Pathogen[ P03346] interacts with 4 human partners:{O75691;P08865;P78316;P63220}

13956 Pathogen[ Q85601] interacts with 4 human partners:{O75691;P63220;P08865;P78316}

13957 Pathogen[ P14079] interacts with 4 human partners:{O75691;P63220;P78316;P08865}

13958 Pathogen[ P03383] interacts with 4 human partners:{O75691;P08865;P78316;P63220}

13959 Pathogen[ P03410] interacts with 4 human partners:{P78316;P63220;P08865;O75691}

13960 Pathogen[ P14075] interacts with 4 human partners:{P63220;P08865;P78316;O75691}

13961 Pathogen[ P0C206] interacts with 4 human partners:{P08865;P78316;O75691;P63220}

13962 Pathogen[ P03363] interacts with 4 human partners:{P08865;O75691;P63220;P78316}

13963 [Cluster 1270]GO:0009792+P biological\_process [name] embryo development ending in birth or egg hatching [def] "The process whose specific outcome is the progression of an embryo over time, from zygote formation until the end of the embryonic life stage. The end of the embryonic life stage is organism-specific and may be somewhat arbitrary\_ for mammals it is usually considered to be birth, for insects the hatching of the first instar larva from the eggshell." [GOC

13964 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13625}

13965 Pathogen[ P0C214] interacts with 1 human partners:{Q13625}

13966 Pathogen[ P03346] interacts with 2 human partners:{P49640;Q13625}

13967 Pathogen[ Q85601] interacts with 1 human partners:{Q13625}

13968 Pathogen[ P14079] interacts with 1 human partners:{Q13625}

13969 Pathogen[ P03383] interacts with 1 human partners:{Q13625}

13970 Pathogen[ P03410] interacts with 1 human partners:{Q13625}

13971 Pathogen[ P14075] interacts with 1 human partners:{Q13625}

13972 Pathogen[ P0C206] interacts with 2 human partners:{Q13625;P49640}

13973 Pathogen[ P03363] interacts with 2 human partners:{Q13625;P49640}

13974 [Cluster 1271]GO:0043046+P biological\_process [name] DNA methylation involved in gamete generation [def] "The covalent transfer of a methyl group to C-5 of cytosine that contributes to the establishment of DNA methylation patterns in the gamete." [GOC

13975 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9NVM4;Q9Y6K1;Q8NI51}

13976 Pathogen[ P0C214] interacts with 3 human partners:{Q8NI51;Q9NVM4;Q9Y6K1}

13977 Pathogen[ P03346] interacts with 4 human partners:{Q8NI51;Q9Y6K1;Q9NVM4;Q9NRD5}

13978 Pathogen[ Q85601] interacts with 3 human partners:{Q8NI51;Q9NVM4;Q9Y6K1}

13979 Pathogen[ P14079] interacts with 4 human partners:{Q9Y6K1;Q9NVM4;Q96JY0;Q8NI51}

13980 Pathogen[ P03383] interacts with 2 human partners:{Q8NI51;Q9Y6K1}

13981 Pathogen[ P03410] interacts with 4 human partners:{Q9NVM4;Q9NRD5;Q8NI51;Q9Y6K1}

13982 Pathogen[ P14075] interacts with 2 human partners:{Q8NI51;Q9Y6K1}

13983 Pathogen[ P0C206] interacts with 4 human partners:{Q9Y6K1;Q8NI51;Q9NVM4;Q9NRD5}

13984 Pathogen[ P03363] interacts with 5 human partners:{Q7Z3Z4;Q9Y6K1;Q8NI51;Q9NVM4;Q96JY0}

13985 [Cluster 1272]GO:0060285+P biological\_process [name] ciliary cell motility [def] "Cell motility due to the motion of one or more cilia." [GOC

13986 Pathogen[ Q2Q067] interacts with 2 human partners:{P48380;Q9NVR5}

13987 Pathogen[ P0C214] interacts with 2 human partners:{Q9NVR5;P48380}

13988 Pathogen[ P03346] interacts with 2 human partners:{Q9NVR5;P48380}

13989 Pathogen[ Q85601] interacts with 2 human partners:{Q9NVR5;P48380}

13990 Pathogen[ P14079] interacts with 3 human partners:{Q9NVR5;P48380;Q9UFE4}

13991 Pathogen[ P03383] interacts with 2 human partners:{P48380;Q9NVR5}

13992 Pathogen[ P03410] interacts with 3 human partners:{Q9UFE4;Q9NVR5;P48380}

13993 Pathogen[ P14075] interacts with 2 human partners:{P48380;Q9NVR5}

13994 Pathogen[ P0C206] interacts with 3 human partners:{P48380;Q9NVR5;Q9UFE4}

13995 Pathogen[ P03363] interacts with 2 human partners:{Q9NVR5;P48380}

13996 [Cluster 1273]GO:0032496+P biological\_process [name] response to lipopolysaccharide [def] "Any process that results in a change in state or activity of an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a lipopolysaccharide stimulus\_lipopolysaccharide is a major component of the cell wall of gram-negative bacteria." [GOC

13997 Pathogen[ Q2Q067] interacts with 17 human partners:{P01100;Q8IUC6;Q16656;P30793;Q00613;Q04206;P17676;Q53H80;Q14790;A6NDB9;Q99966;Q14653;P29474;Q96FA3;P25963;P15923;P42224}

13998 Pathogen[ P0C214] interacts with 18 human partners:{P29474;Q00613;Q8IUC6;Q16656;P01100;Q96FA3;Q04206;Q53H80;P42224;P17676;Q99966;P30793;P15923;P25963;Q14653;P05412;O15524;Q14790}

13999 Pathogen[ P03346] interacts with 18 human partners:{P05412;O15524;Q99966;P17676;P29474;Q16656;Q00613;P25963;P15923;Q04206;Q53H80;Q96FA3;A6NDB9;P42224;Q14653;Q8IUC6;Q14790;P01100}

14000 Pathogen[ Q85601] interacts with 17 human partners:{P17676;Q8IUC6;Q16656;Q14790;Q99966;Q00613;Q96FA3;P30793;P01100;Q53H80;Q14653;Q04206;P05412;P42224;P15923;P29474;P25963}

14001 Pathogen[ P14079] interacts with 22 human partners:{Q53H80;Q16873;Q14653;Q8IUC6;Q16656;Q99966;P15923;P30793;Q96FA3;A6NDB9;Q00613;Q14790;Q16644;P11686;A6NK06;P10620;P42224;P29459;Q9Y6Y9;P05412;P01100;Q99836}

14002 Pathogen[ P03383] interacts with 14 human partners:{Q14653;P29474;A6NDB9;Q8IUC6;Q16656;P15923;Q53H80;P17676;Q00613;P25963;P01100;Q96FA3;Q04206;P05412}

14003 Pathogen[ P03410] interacts with 21 human partners:{Q00613;Q04206;P17676;Q96FA3;Q14653;P30793;P15923;P01100;P29474;P11686;Q16873;Q53H80;P05412;A6NK06;Q9Y6Y9;Q8IUC6;Q16656;P25963;A6NDB9;P29459;Q99966}

14004 Pathogen[ P14075] interacts with 15 human partners:{P29474;Q00613;Q04206;P05412;Q16656;Q53H80;P15923;P25963;Q14653;Q96FA3;Q8IUC6;P01100;A6NDB9;P17676;P30793}

14005 Pathogen[ P0C206] interacts with 20 human partners:{A6NDB9;Q00613;P05412;P25963;O15524;P30793;A6NK06;Q16656;P17676;P01100;Q04206;P15923;Q14790;Q8IUC6;P29474;Q99966;Q96FA3;P42224;Q53H80;Q14653}

14006 Pathogen[ P03363] interacts with 15 human partners:{Q14653;P29474;Q13151;Q04206;P17676;O15524;P25963;P15923;Q96FA3;Q16656;P05412;Q00613;Q53H80;A6NDB9;P01100}

14007 [Cluster 1274]GO:0042262+P biological\_process [name] DNA protection [def] "Any process in which DNA is protected from damage by, for example, oxidative stress." [GOC

14008 Pathogen[ Q2Q067] interacts with 1 human partners:{P36639}

14009 Pathogen[ P0C214] interacts with 1 human partners:{P36639}

14010 Pathogen[ P03346] interacts with 2 human partners:{Q9NS18;P36639}

14011 Pathogen[ Q85601] interacts with 1 human partners:{P36639}

14012 Pathogen[ P14079] interacts with 1 human partners:{P36639}

14013 Pathogen[ P03383] interacts with 1 human partners:{P36639}

14014 Pathogen[ P03410] interacts with 1 human partners:{P36639}

14015 Pathogen[ P14075] interacts with 1 human partners:{P36639}

14016 Pathogen[ P0C206] interacts with 2 human partners:{Q9NS18;P36639}

14017 Pathogen[ P03363] interacts with 1 human partners:{P36639}

14018 [Cluster 1275]GO:0033365+P biological\_process [name] protein localization to organelle [def] "A process in which a protein is transported to, or maintained in, a location within an organelle." [GOC

14019 Pathogen[ Q2Q067] interacts with 4 human partners:{P83436;O00541;Q96QF0;Q96JB2}  
14020 Pathogen[ POC214] interacts with 5 human partners:{O00541;P83436;Q96G01;Q96JB2;Q96QF0}  
14021 Pathogen[ P03346] interacts with 7 human partners:{Q96G01;Q96JB2;O00541;Q8N157;P83436;O14617;Q96QF0}  
14022 Pathogen[ Q85601] interacts with 5 human partners:{O00541;Q96JB2;P83436;Q96G01;Q96QF0}  
14023 Pathogen[ P14079] interacts with 7 human partners:{P83436;Q8N157;Q96QF0;Q96G01;O00541;Q96JB2;O14617}  
14024 Pathogen[ P03383] interacts with 4 human partners:{Q96QF0;P83436;O00541;Q96JB2}  
14025 Pathogen[ P03410] interacts with 7 human partners:{Q96JB2;O14617;Q8N157;Q96G01;Q96QF0;O00541;P83436}  
14026 Pathogen[ P14075] interacts with 4 human partners:{Q96JB2;O00541;Q96QF0;P83436}  
14027 Pathogen[ POC206] interacts with 8 human partners:{P83436;Q96JB2;P50461;Q96QF0;Q8N157;O00541;O14617;Q96G01}  
14028 Pathogen[ P03363] interacts with 5 human partners:{P83436;Q8N157;O00541;Q96QF0;Q96JB2}  
14029 [Cluster 1276]GO:0048520+P biological\_process [name] positive regulation of behavior [def] "Any process that activates or increases the frequency, rate or extent of behavior, the specific actions or reactions of an organism in response to external or internal stimuli." [GOC  
14030 Pathogen[ Q2Q067] interacts with 1 human partners:{P49116}  
14031 Pathogen[ POC214] interacts with 1 human partners:{P49116}  
14032 Pathogen[ P03346] interacts with 1 human partners:{P49116}  
14033 Pathogen[ Q85601] interacts with 1 human partners:{P49116}  
14034 Pathogen[ P14079] interacts with 1 human partners:{P49116}  
14035 Pathogen[ P03383] interacts with 1 human partners:{P49116}  
14036 Pathogen[ P03410] interacts with 1 human partners:{P49116}  
14037 Pathogen[ P14075] interacts with 1 human partners:{P49116}  
14038 Pathogen[ POC206] interacts with 1 human partners:{P49116}  
14039 Pathogen[ P03363] interacts with 1 human partners:{P49116}  
14040 [Cluster 1277]GO:0042953+P biological\_process [name] lipoprotein transport [def] "The directed movement of any conjugated, water-soluble protein in which the nonprotein group consists of a lipid or lipids, into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore." [GOC  
14041 Pathogen[ Q2Q067] interacts with 2 human partners:{Q13432;A6NIH7}  
14042 Pathogen[ POC214] interacts with 2 human partners:{A6NIH7;Q13432}  
14043 Pathogen[ P03346] interacts with 2 human partners:{Q13432;A6NIH7}  
14044 Pathogen[ Q85601] interacts with 2 human partners:{A6NIH7;Q13432}  
14045 Pathogen[ P14079] interacts with 3 human partners:{P41238;A6NIH7;Q13432}  
14046 Pathogen[ P03383] interacts with 2 human partners:{Q13432;A6NIH7}  
14047 Pathogen[ P03410] interacts with 4 human partners:{P41238;P55157;A6NIH7;Q13432}  
14048 Pathogen[ P14075] interacts with 2 human partners:{A6NIH7;Q13432}  
14049 Pathogen[ POC206] interacts with 3 human partners:{Q13432;A6NIH7;P41238}  
14050 Pathogen[ P03363] interacts with 2 human partners:{Q13432;A6NIH7}  
14051 [Cluster 1278]GO:0000236+P biological\_process [name] mitotic prometaphase [def] "A cell cycle process comprising the steps by which a cell progresses through prometaphase, the stage following prophase in mitosis (in higher eukaryotes) during which the nuclear envelope is disrupted and breaks into membrane vesicles, and the spindle microtubules enter the nuclear region. Kinetochores mature on each centromere and attach to some of the spindle microtubules. Kinetochore microtubules begin the process of aligning chromosomes in one plane halfway between the poles." [GOC  
14052 Pathogen[ Q2Q067] interacts with 67 human partners:{P49454;Q96EE3;Q96H22;P52948;Q71F23;Q14008;Q12769;Q9Y266;P49792;Q13352;Q7Z460;P55735;Q61PU0;Q6P1K2;Q9HBM1;Q8WYP5;A8MVW5;Q9H3R5;Q5FBB7;P49450;Q13257;Q8N2Z9;Q03188;Q9NXR1;Q53HL2;O43684;Q8NBT2;Q9P258;Q8NFH4;P14635;Q9NQS7;O43264;O14980;Q92674;Q9BW27;Q96BT3;Q9BZD4;Q9NSP4;Q12834;P36873;P50748;Q9H410;Q8NFH3;O60216;O00139;O75122;Q8NG31;Q9Y6D9;P57740;Q96BD8;Q9H900;Q96IY1;Q8WUM0;Q14683;Q8WVM7;Q9BU64;P42677;O95229;O14777;Q562F6;Q9BPU9;Q8N3U4;Q15691;Q9H081;Q8WVK7;O15392;Q96EA4}  
14053 Pathogen[ POC214] interacts with 68 human partners:{Q9H081;O43684;P55735;Q13257;Q96BT3;Q14008;Q53HL2;O43264;Q96EA4;P57740;Q8WYP5;P50748;A8MVW5;O95229;Q96EE3;P49792;Q61PU0;P14635;Q8NBT2;O00139;Q15691;Q6P1K2;P46060;Q562F6;Q9Y266;P49450;Q8N2Z9;Q03188;O75122;Q92674;O14980;Q9BW27;Q96BD8;Q9HBM1;Q9BP09;Q9P258;Q12834;Q13352;Q8NFH3;Q9H410;O15392;Q9H3R5;P42677;Q14683;Q8N3U4;Q8WVM7;Q8NG31;Q7Z460;P36873;Q9H900;Q5FBB7;Q9NQS7;Q9NSP4;Q71F23;Q8NFH4;Q8N0S6;Q9NXR1;Q96IY1;P49454;O60216;Q9BZD4;Q8WUM0;Q9Y6D9;P52948;Q9BU64;Q12769;Q8WVK7;O14777}  
14054 Pathogen[ P03346] interacts with 72 human partners:{Q9Y6D9;Q8N2Z9;P55735;Q5FBB7;Q8NFH4;Q8WUM0;O95229;Q7L2Z9;Q12769;O15392;O43684;Q96EE3;Q8N3U4;Q9BPU9;Q92674;O00139;P57740;Q15691;Q8WYP5;A8MVW5;O43264;Q9NXR1;Q53HL2;Q96IY1;Q9P258;Q8NFH3;Q12834;Q9Y266;O14777;Q9BW27;O14980;Q96EA4;P14635;P46060;Q14683;P36873;Q14008;Q9NQS7;Q562F6;Q9H081;Q8NBT2;Q9HBM1;Q9H410;P30622;O75122;Q9BU64;Q8WVM7;Q03188;P42677;P50748;P49450;Q7Z460;Q61PU0;Q8NG31;Q8N0S6;Q9H3R5;Q9NSP4;Q96H22;Q6P1K2;O60216;Q96BD8;Q9BZD4;Q96BT3;Q71F23;Q13352;Q8WVK7;Q13257;P49454;Q9H900;P49792;P52948}  
14055 Pathogen[ Q85601] interacts with 67 human partners:{Q8NBT2;P49454;O95229;Q8NFH4;Q8NFH3;Q03188;Q9H900;Q14008;P46060;Q96EE3;Q9NQ

- S7;Q12769;Q9H081;Q9P258;Q96BT3;P57740;Q8WYP5;A8MVW5;P30622;Q8WUM0;Q71F23;O43264;Q53HL2;Q8NG31;O15392;Q9H3R5;Q96EA4;O60216;Q8WVM7;Q12834;Q13257;Q92674;O75122;Q9Y266;Q9BW27;Q13352;Q562F6;P14635;Q9BU64;Q14683;Q9BZD4;P36873;Q15691;Q96BD8;Q9Y6D9;P55735;P52948;P49450;Q8N2Z9;Q9H410;O14980;Q8N3U4;P42677;P50748;Q8WVK7;Q96IY1;Q9BPU9;Q7Z460;P49792;Q9NXR1;Q6P1K2;Q9GZM8;O14777;O43684;O00139;Q9HBM1;Q5FBB7}
- 14056 Pathogen[ P14079] interacts with 69 human  
partners: {Q15691;Q96IY1;Q03188;Q9BW27;Q7Z460;Q96BT3;Q9HBM1;Q8N0S6;P36873;P57740;O95229;Q8NBT2;Q9BZD4;O15392;O60216;Q9Y266;P46060;Q8NG31;A8MVW5;Q6IPU0;Q9H900;Q5FBB7;Q9H410;Q8N3U4;Q9NSP4;Q99661;Q71F23;Q8WUM0;P14635;Q8WYP5;O00139;Q8N2Z9;Q13257;Q96EA4;Q562F6;Q8WVK7;P49450;Q96H22;Q8NFH3;Q96EE3;Q9BPU9;Q9P258;O43264;Q9H3R5;Q9GZM8;Q53HL2;P42677;Q8NFH4;Q9NQS7;Q92674;P55735;Q9UQE7;P49454;Q9BU64;Q9NXR1;P50748;Q12769;Q96BD8;O75122;Q14683;Q13352;Q7L2Z9;O14777;O43684;P30622;Q6P1K2;P52948;Q9H081;Q14008}
- 14057 Pathogen[ P03383] interacts with 60 human  
partners: {Q14683;Q96EE3;Q13257;Q8WUM0;Q9NQS7;Q03188;P49454;P49792;Q8N2Z9;Q8NFH4;Q7Z460;Q6IPU0;Q96BD8;Q8NBT2;Q8N3U4;Q14008;Q9H900;Q15691;P55735;O43264;Q5FBB7;P52948;Q9P258;P57740;Q8WYP5;A8MVW5;P42677;Q96H22;Q13352;Q96EA4;O60216;P14635;Q96BT3;Q12769;P36873;Q71F23;Q12834;Q53HL2;O95229;Q9BW27;Q9BU64;O14980;O43684;Q9BZD4;Q8WVK7;Q562F6;Q9HBM1;Q9Y266;Q9H410;Q9H081;Q96IY1;Q8NG31;Q6P1K2;O14777;Q92674;Q9H3R5;Q8NFH3;Q9Y6D9;P50748;Q8WVM7}
- 14058 Pathogen[ P03410] interacts with 72 human  
partners: {Q03188;Q7Z460;O15392;Q9BW27;Q9NSP4;Q9H3R5;Q8N0S6;O43684;Q96H22;P30622;O00139;Q9NXR1;Q9H410;Q8NG31;Q9GZM8;Q53HL2;Q8NFH4;Q6IPU0;Q9UQE7;Q96BT3;P52948;Q14008;P50748;Q562F6;Q92674;O60216;O43264;P49454;Q96EA4;Q96IY1;P14635;Q15691;Q9BPU9;Q6P1K2;Q71F23;Q14683;Q9BZD4;Q8WVK7;P36873;Q9HBM1;A8MVW5;Q96EE3;Q8N3U4;Q12834;Q8NBT2;P49450;Q5FBP7;Q8WUM0;Q8WVM7;Q9H900;Q9Y266;O95229;Q9H081;Q96BD8;P57740;P55735;Q12769;Q9P258;Q8WYP5;O75122;Q8NFH3;Q13352;P46060;Q7L2Z9;O14980;O14777;P49792;Q9BU64;Q8N2Z9;Q13257;Q9NQ S7;P42677}
- 14059 Pathogen[ P14075] interacts with 62 human  
partners: {Q6IPU0;P42677;Q9Y266;Q14683;Q9Y6D9;Q9H081;Q562F6;Q9NQS7;Q8WVM7;P14635;Q92674;Q8WVK7;P57740;Q8WYP5;A8MVW5;Q7Z460;P49792;Q96IY1;Q13257;Q96H22;O43684;Q96BD8;O14777;P55735;P36873;O95229;Q8N2Z9;Q9H3R5;O14980;Q9BW27;Q9BU64;Q96EA4;O00139;Q9P258;Q15691;Q96EE3;Q96BT3;Q9BPU9;Q5FBB7;Q9H410;Q8NFH3;Q9H900;Q53HL2;P50748;Q12769;Q9HBM1;Q6P1K2;Q13352;Q14008;Q8WUM0;O43264;Q03188;Q8NG31;P49454;Q71F23;Q8NFH4;O60216;Q8NBT2;Q9BZD4;Q12834;P52948;Q8N3U4}
- 14060 Pathogen[ P0C206] interacts with 71 human  
partners: {Q9BPU9;Q96EE3;Q9HBM1;O60216;Q8WYP5;Q6IPU0;Q9NSP4;Q14008;Q9H900;Q9Y6D9;Q7L2Z9;Q15691;Q9H081;O14777;Q8N0S6;Q9BZD4;P55735;Q9H410;P57740;P49454;P30622;Q13257;Q9BU64;Q9GZM8;O75122;Q92674;Q8WUM0;P46060;Q6P1K2;P49792;Q8NBT2;A8MVW5;Q96BD8;Q9H3R5;Q9UQE7;P49450;Q14683;Q96IY1;Q96BT3;Q13352;Q5FBB7;Q53HL2;O15392;O00139;Q9P258;Q96H22;Q8NFH4;Q562F6;Q8N3U4;Q9NXR1;Q96EA4;Q8N2Z9;Q12769;P14635;O43684;Q7Z460;Q9NQS7;Q8NFH3;P36873;P50748;Q71F23;O43264;Q8WVM7;Q8NG31;Q9Y266;Q12834;Q8WVK7;Q9BW27;Q03188;P42677;O95229}
- 14061 Pathogen[ P03363] interacts with 62 human  
partners: {Q96EA4;Q9BZD4;P46060;P49454;Q96IY1;Q6P1K2;P42677;Q9Y6D9;Q9H081;P36873;Q92674;Q8NFH4;O95229;Q96BD8;Q8WYP5;Q8NFH3;Q9Y266;O14980;Q12769;Q15691;O43264;Q8NBT2;Q8N2Z9;Q9P258;Q53HL2;Q8WVK7;Q9H410;P50748;Q5FBB7;Q9H900;Q8WUM0;A8MVW5;P30622;O43684;P49450;Q9NQS7;Q9BPU9;Q9NSP4;Q8WVM7;Q9HBM1;Q7Z460;P49792;Q03188;Q8NG31;Q13257;Q71F23;P57740;Q96BT3;Q9H3R5;P52948;Q8N3U4;O14777;Q12834;Q14008;Q562F6;Q9NXR1;O00139;Q13352;P55735;Q14683;Q9BW27;O60216}
- 14062 [Cluster 1279]GO:0048589+P biological\_process [name] developmental growth [def] "The increase in size or mass of an entire organism, a part of an organism or a cell, where the increase in size or mass has the specific outcome of the progression of the organism over time from one condition to another." [GOC
- 14063 Pathogen[ Q2Q067] interacts with 7 human  
partners: {Q13485;P11831;P56693;P84022;Q15796;P04818;Q8IZT6}
- 14064 Pathogen[ P0C214] interacts with 7 human  
partners: {P04818;P56693;P84022;P11831;Q13485;Q15796;Q8IZT6}
- 14065 Pathogen[ P03346] interacts with 8 human  
partners: {P11831;P31270;Q8NFW5;Q15796;P56693;P84022;Q8IZT6;Q13485}
- 14066 Pathogen[ Q85601] interacts with 6 human  
partners: {P11831;Q8IZT6;P56693;P84022;Q13485;Q15796}
- 14067 Pathogen[ P14079] interacts with 6 human  
partners: {P01215;P54826;Q8TCU4;P56693;P04818;Q8IZT6}
- 14068 Pathogen[ P03383] interacts with 6 human  
partners: {P11831;Q13485;P84022;Q15796;P01215;P56693}
- 14069 Pathogen[ P03410] interacts with 10 human  
partners: {P84022;P11831;Q8TCU4;P01215;Q8IZT6;P04818;Q13485;P56693;P54826;Q15796}
- 14070 Pathogen[ P14075] interacts with 7 human  
partners: {P11831;P56693;Q15796;Q13485;P84022;P01215;P54826}
- 14071 Pathogen[ P0C206] interacts with 10 human  
partners: {P84022;Q8TCU4;Q8IZT6;P56693;Q15796;P01215;Q13485;P04818;P11831;P54826}
- 14072 Pathogen[ P03363] interacts with 7 human  
partners: {Q8NFW5;P11831;P56693;Q15796;P84022;Q13485;Q8IZT6}
- 14073 [Cluster 1280]GO:0009605+P biological\_process [name] response to external stimulus [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as

a result of an external stimulus." [GOC

14074 Pathogen[ Q2Q067] interacts with 2 human partners:{075582;Q03112}

14075 Pathogen[ P0C214] interacts with 2 human partners:{Q03112;075582}

14076 Pathogen[ P03346] interacts with 2 human partners:{Q03112;075582}

14077 Pathogen[ Q85601] interacts with 2 human partners:{Q03112;075582}

14078 Pathogen[ P14079] interacts with 1 human partners:{075582}

14079 Pathogen[ P03383] interacts with 2 human partners:{075582;Q03112}

14080 Pathogen[ P03410] interacts with 2 human partners:{Q03112;075582}

14081 Pathogen[ P14075] interacts with 2 human partners:{075582;Q03112}

14082 Pathogen[ P0C206] interacts with 2 human partners:{075582;Q03112}

14083 Pathogen[ P03363] interacts with 1 human partners:{Q03112}

14084 [Cluster 1281]GO:0031023+P biological\_process [name] microtubule organizing center organization [def] "A process that is carried out at the cellular level which results in the assembly, arrangement of constituent parts, or disassembly of a microtubule organizing center, a structure from which microtubules grow." [GOC

14085 Pathogen[ Q2Q067] interacts with 4 human partners:{Q7Z460;Q9NXR1;Q8IWJ2;075122}

14086 Pathogen[ P0C214] interacts with 4 human partners:{Q8IWJ2;075122;Q7Z460;Q9NXR1}

14087 Pathogen[ P03346] interacts with 4 human partners:{Q9NXR1;075122;Q7Z460;Q8IWJ2}

14088 Pathogen[ Q85601] interacts with 4 human partners:{Q8IWJ2;075122;Q7Z460;Q9NXR1}

14089 Pathogen[ P14079] interacts with 4 human partners:{Q7Z460;Q8IWJ2;Q9NXR1;075122}

14090 Pathogen[ P03383] interacts with 2 human partners:{Q8IWJ2;Q7Z460}

14091 Pathogen[ P03410] interacts with 4 human partners:{Q7Z460;Q9NXR1;075122;Q8IWJ2}

14092 Pathogen[ P14075] interacts with 2 human partners:{Q7Z460;Q8IWJ2}

14093 Pathogen[ P0C206] interacts with 4 human partners:{075122;Q9NXR1;Q7Z460;Q8IWJ2}

14094 Pathogen[ P03363] interacts with 3 human partners:{Q7Z460;Q8IWJ2;Q9NXR1}

14095 [Cluster 1282]GO:0045596+P biological\_process [name] negative regulation of cell differentiation [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of cell differentiation." [GOC

14096 Pathogen[ Q2Q067] interacts with 11 human partners:{P41182;Q15022;O95521;Q5VWM6;Q5VWM5;Q5SWL7;P78395;P12757;O60810;O60809;Q00534}

14097 Pathogen[ P0C214] interacts with 17 human partners:{Q15022;Q5TYX0;P12757;Q5SWL7;A6NGN4;P78395;O60813;O60810;Q5VWM6;Q5VTA0;Q00534;P41182;Q5VWM5;Q5SWL8;O95521;Q5VXH4;Q5VWM1}

14098 Pathogen[ P03346] interacts with 17 human partners:{Q9NPC8;P12757;Q5VWM5;Q9BPY8;O60810;O60809;P51843;Q5VTA0;P78395;Q15022;P41182;Q00534;Q5SWL8;O95521;Q5VWM1;Q5VWM6;Q5SWL7}

14099 Pathogen[ Q85601] interacts with 17 human partners:{Q5VTA0;O60813;O60810;P12757;Q5SWL7;Q5VXH4;Q15022;Q5TYX0;Q00534;P41182;Q5VWM5;Q5SWL8;Q5VWM1;Q5VWM6;P78395;A6NGN4;Q5VT98}

14100 Pathogen[ P14079] interacts with 27 human partners:{O60811;A3QJZ6;Q5VXH5;Q5SWL7;Q5VWM3;Q5VT98;A6NGN4;Q5TYX0;P41182;Q5VWM6;A6NMV5;O95521;Q5VWM5;O95522;Q5VTA0;O60809;Q5VWM4;Q5SWL8;O60813;P78395;P12757;A6NMC2;Q5VXH4;Q5VWM1;O60810;Q15022;Q5TYW8}

14101 Pathogen[ P03383] interacts with 13 human partners:{Q5TYX0;O60809;O60810;Q00534;Q15022;Q5SWL7;P78395;O60813;Q5VXH4;Q5VWM6;P12757;Q5VWM5;O95521}

14102 Pathogen[ P03410] interacts with 28 human partners:{Q5VWM4;Q5SWL7;Q5VXH5;Q5SWL8;Q00534;A6NGN4;Q5TYW8;O60811;Q5VWM1;O60813;O60809;A3QJZ6;Q5VWM6;O95521;Q5VWM5;O60810;P78395;Q5VT98;P12757;Q5VXH4;P41182;A6NMC2;O95522;A6NMV5;Q5VTA0;Q5TYX0;Q5VWM3;Q15022}

14103 Pathogen[ P14075] interacts with 15 human partners:{Q5VWM1;Q5SWL7;O60809;P78395;Q5VXH4;O60813;Q00534;O95521;P12757;Q5VWM5;Q5TYX0;Q15022;O60810;Q5VWM6;Q5VTA0}

14104 Pathogen[ P0C206] interacts with 23 human partners:{A3QJZ6;Q5VXH4;P78395;P41182;Q5VWM5;O60813;Q5VWM3;A6NGN4;Q5TYX0;Q5TYW8;A6NMV5;Q5VTA0;Q5SWL7;P12757;Q5VT98;Q15022;O95521;Q5VWM1;O60810;O60809;Q5VWM6;Q5SWL8;Q00534}

14105 Pathogen[ P03363] interacts with 16 human partners:{O60809;Q15022;P12757;P78395;P19883;O60813;Q00534;Q9BPY8;Q5SWL7;Q5VWM6;Q5VXH4;O60810;O95521;Q5VWM5;Q9NPC8;Q5TYX0}

14106 [Cluster 1283]GO:0034162+P biological\_process [name] toll-like receptor 9 signaling pathway [def] "Any series of molecular signals generated as a consequence of binding to toll-like receptor 9." [GOC

14107 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8NFX5}

14108 Pathogen[ P0C214] interacts with 1 human partners:{Q8NFX5}

14109 Pathogen[ P03346] interacts with 1 human partners:{Q8NFX5}

14110 Pathogen[ Q85601] interacts with 1 human partners:{Q8NFX5}

14111 Pathogen[ P14079] interacts with 1 human partners:{Q8NFX5}

14112 Pathogen[ P03383] interacts with 1 human partners:{Q8NFX5}

14113 Pathogen[ P03410] interacts with 1 human partners:{Q8NFX5}

14114 Pathogen[ P14075] interacts with 1 human partners:{Q8NFX5}

14115 Pathogen[ P0C206] interacts with 1 human partners:{Q8NFX5}

14116 Pathogen[ P03363] interacts with 1 human partners:{Q8NFX5}

14117 [Cluster 1284]GO:0007129+P biological\_process [name] synapsis [def] "The cell cycle process in which the side by side pairing and physical juxtaposition of homologous



chromosomes is created at the metaphase plate." [GOC

14118 Pathogen[ Q2Q067] interacts with 2 human partners:{P49959;Q9BXW9}

14119 Pathogen[ POC214] interacts with 3 human partners:{P49959;Q9BXT5;Q9BXW9}

14120 Pathogen[ P03346] interacts with 3 human partners:{Q9BXT5;P49959;Q9BXW9}

14121 Pathogen[ Q85601] interacts with 3 human partners:{Q9BXT5;Q9BXW9;P49959}

14122 Pathogen[ P14079] interacts with 4 human partners:{Q9BXT5;Q9BXW9;Q7Z7C7;Q96JY0}

14123 Pathogen[ P03383] interacts with 1 human partners:{Q9BXW9}

14124 Pathogen[ P03410] interacts with 4 human partners:{P49959;Q9BXW9;Q9BXT5;Q7Z7C7}

14125 Pathogen[ P14075] interacts with 3 human partners:{Q9BXT5;Q9BXW9;Q7Z7C7}

14126 Pathogen[ POC206] interacts with 4 human partners:{P49959;Q9BXT5;Q7Z7C7;Q9BXW9}

14127 Pathogen[ P03363] interacts with 3 human partners:{Q9BXW9;Q96JY0;Q9BXT5}

14128 [Cluster 1285]GO:0000578+P biological\_process [name] embryonic axis specification  
[def] "The establishment, maintenance and elaboration of a pattern along a line or a point in an embryo." [GOC

14129 Pathogen[ Q2Q067] interacts with 2 human partners:{Q99966;Q15468}

14130 Pathogen[ POC214] interacts with 2 human partners:{Q99966;Q15468}

14131 Pathogen[ P03346] interacts with 2 human partners:{Q99966;Q15468}

14132 Pathogen[ Q85601] interacts with 1 human partners:{Q99966}

14133 Pathogen[ P14079] interacts with 2 human partners:{Q99966;Q15468}

14134 Pathogen[ P03383] interacts with 1 human partners:{Q15468}

14135 Pathogen[ P03410] interacts with 2 human partners:{Q15468;Q99966}

14136 Pathogen[ P14075] interacts with 1 human partners:{Q15468}

14137 Pathogen[ POC206] interacts with 2 human partners:{Q15468;Q99966}

14138 Pathogen[ P03363] interacts with 1 human partners:{Q15468}

14139 [Cluster 1286]GO:0016052+P biological\_process [name] carbohydrate catabolic process  
[def] "The chemical reactions and pathways resulting in the breakdown of carbohydrates, any of a group of organic compounds based of the general formula C<sub>x</sub>(H<sub>2</sub>O)<sub>y</sub>." [ISBN

14140 Pathogen[ Q2Q067] interacts with 2 human partners:{Q96G03;Q6PCE3}

14141 Pathogen[ POC214] interacts with 2 human partners:{Q6PCE3;Q96G03}

14142 Pathogen[ P03346] interacts with 2 human partners:{Q6PCE3;Q96G03}

14143 Pathogen[ Q85601] interacts with 2 human partners:{Q6PCE3;Q96G03}

14144 Pathogen[ P14079] interacts with 3 human partners:{Q6PCE3;P17050;Q96G03}

14145 Pathogen[ P03383] interacts with 2 human partners:{Q96G03;Q6PCE3}

14146 Pathogen[ P03410] interacts with 2 human partners:{Q6PCE3;Q96G03}

14147 Pathogen[ P14075] interacts with 2 human partners:{Q96G03;Q6PCE3}

14148 Pathogen[ POC206] interacts with 2 human partners:{Q96G03;Q6PCE3}

14149 Pathogen[ P03363] interacts with 2 human partners:{Q6PCE3;Q96G03}

14150 [Cluster 1287]GO:0045786+P biological\_process [name] negative regulation of cell cycle  
[def] "Any process that stops, prevents or reduces the rate or extent of progression through the cell cycle." [GOC

14151 Pathogen[ Q2Q067] interacts with 21 human partners:{Q9H0C8;Q96KQ4;P06400;P14921;Q7Z6K1;Q13625;Q13547;O15379;O60356;Q92769;O00255;O75496;P49848;Q53EL6;Q9UKN5;Q13761;P42771;Q13105;Q9H2G4;O60477;Q00534}

14152 Pathogen[ POC214] interacts with 22 human partners:{Q9UKN5;Q13761;Q13547;P14921;Q13625;O75496;Q53EL6;O60477;Q00534;Q92769;P49848;O60356;P42574;P42771;Q96KQ4;O15379;Q9H2G4;Q9H0C8;Q7Z6K1;Q13105;P06400;O00255}

14153 Pathogen[ P03346] interacts with 23 human partners:{Q9H0C8;O15379;Q96KQ4;P06400;Q96FS4;Q9H2G4;Q7Z6K1;P42574;P42771;P14921;O00255;O60477;Q92769;P49848;Q13547;Q13761;Q13625;Q13105;O60356;Q00534;Q9UKN5;Q53EL6;O75496}

14154 Pathogen[ Q85601] interacts with 20 human partners:{O75496;P14921;Q9H0C8;P06400;Q9UKN5;Q96KQ4;Q92769;P49848;O00255;Q13625;P42771;Q53EL6;O15379;Q7Z6K1;O60356;Q13547;Q9H2G4;Q00534;Q13105;Q13761}

14155 Pathogen[ P14079] interacts with 17 human partners:{O15379;Q7Z6K1;Q13105;Q13625;O60477;Q92769;Q9H2G4;P49848;Q9H0C8;Q13761;O60356;Q9UKN5;Q96KQ4;O00255;O75496;Q53EL6;P42771}

14156 Pathogen[ P03383] interacts with 21 human partners:{Q13761;Q53EL6;Q7Z6K1;Q9H0C8;P14921;Q96KQ4;Q00534;Q13625;P06400;Q13105;Q92769;P49848;Q9UKN5;O15379;O00255;P42771;Q13547;Q9H2G4;O60477;O75496;O60356}

14157 Pathogen[ P03410] interacts with 21 human partners:{P42771;Q00534;P06400;Q96KQ4;Q9H0C8;Q92769;Q9UKN5;P49848;O15379;O60356;Q53EL6;Q13761;Q13547;O75496;Q13105;Q7Z6K1;O60477;Q13625;O00255;Q9H2G4;P14921}

14158 Pathogen[ P14075] interacts with 21 human partners:{Q13105;Q96KQ4;Q9UKN5;Q00534;P42771;Q9H2G4;Q13547;Q9H0C8;O00255;Q7Z6K1;Q92769;P49848;Q53EL6;O60356;P14921;P06400;Q13625;O60477;O15379;O75496;Q13761}

14159 Pathogen[ POC206] interacts with 22 human partners:{Q92769;O75496;P49848;P14921;Q13625;O60477;O00255;P42771;Q13547;Q96KQ4;O60356;Q9UKN5;O15379;P42574;Q53EL6;Q9H2G4;Q7Z6K1;Q13105;Q13761;Q00534;P06400;Q9H0C8}

14160 Pathogen[ P03363] interacts with 20 human partners:{Q13105;O60356;P49848;Q9UKN5;O15379;Q13625;Q7Z6K1;Q53EL6;P14921;Q96KQ4;P06400;Q00534;Q9H2G4;Q9H0C8;O60477;Q13547;O75496;Q13761;P42771;Q96FS4}

14161 [Cluster 1288]GO:2000798+P biological\_process [name] negative regulation of amniotic stem cell differentiation [def] "Any process that stops, prevents or reduces the frequency, rate or extent of amniotic stem cell differentiation." [GOC

14162 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13127}

14163 Pathogen[ POC214] interacts with 1 human partners:{Q13127}

14164 Pathogen[ P03346] interacts with 1 human partners:{Q13127}  
14165 Pathogen[ Q85601] interacts with 1 human partners:{Q13127}  
14166 Pathogen[ P14079] interacts with 1 human partners:{Q13127}  
14167 Pathogen[ P03383] interacts with 1 human partners:{Q13127}  
14168 Pathogen[ P03410] interacts with 1 human partners:{Q13127}  
14169 Pathogen[ P14075] interacts with 1 human partners:{Q13127}  
14170 Pathogen[ P0C206] interacts with 1 human partners:{Q13127}  
14171 Pathogen[ P03363] interacts with 1 human partners:{Q13127}  
14172 [Cluster 1289]GO:0046788+P biological\_process [name] egress of virus within host cell [def] "The process of moving the (often) incomplete virion to the cell surface in order to be released from the cell. Egress can involve travel through the endoplasmic reticulum or cytoplasm and will often include final maturation stages of the virion, but it occurs entirely within the cell." [GOC  
14173 Pathogen[ Q2Q067] interacts with 9 human partners:{Q99816;A5D8V6;Q9UK41;Q9H9H4;P0CG47;P0CG48;P62987;Q8NEZ2;P62979}  
14174 Pathogen[ P0C214] interacts with 10 human partners:{Q9UK41;O60551;P0CG48;Q8NEZ2;P62987;Q99816;P0CG47;A5D8V6;Q9H9H4;P62979}  
14175 Pathogen[ P03346] interacts with 10 human partners:{Q86XT2;A5D8V6;P62987;P0CG48;Q8NEZ2;Q99816;Q9UK41;Q9H9H4;P62979;P0CG47}  
14176 Pathogen[ Q85601] interacts with 10 human partners:{Q99816;Q9H9H4;P0CG48;O60551;Q9UK41;P62979;P0CG47;P62987;Q8NEZ2;A5D8V6}  
14177 Pathogen[ P14079] interacts with 10 human partners:{Q9H9H4;P0CG48;Q86XT2;P62979;P62987;A5D8V6;O60551;Q8NEZ2;Q99816;P0CG47}  
14178 Pathogen[ P03383] interacts with 8 human partners:{P62987;Q8NEZ2;Q99816;Q9UK41;Q9H9H4;P62979;P0CG47;P0CG48}  
14179 Pathogen[ P03410] interacts with 10 human partners:{P0CG48;Q86XT2;Q9H9H4;O60551;P62979;A5D8V6;Q99816;Q8NEZ2;P62987;P0CG47}  
14180 Pathogen[ P14075] interacts with 8 human partners:{Q9UK41;Q8NEZ2;Q9H9H4;P0CG48;P62979;P62987;P0CG47;Q99816}  
14181 Pathogen[ P0C206] interacts with 11 human partners:{P0CG48;Q8NEZ2;Q99816;Q9UK41;Q9H9H4;A5D8V6;Q86XT2;P62979;P0CG47;O60551;P62987}  
14182 Pathogen[ P03363] interacts with 6 human partners:{Q9UK41;P62987;Q8NEZ2;Q99816;Q9H9H4;A5D8V6}  
14183 [Cluster 1290]GO:0006168+P biological\_process [name] adenine salvage [def] "Any process that generates adenine, 6-aminopurine, from derivatives of it without de novo synthesis." [GOC  
14184 Pathogen[ Q2Q067] interacts with 1 human partners:{P07741}  
14185 Pathogen[ P0C214] interacts with 1 human partners:{P07741}  
14186 Pathogen[ P03346] interacts with 1 human partners:{P07741}  
14187 Pathogen[ Q85601] interacts with 1 human partners:{P07741}  
14188 Pathogen[ P14079] interacts with 1 human partners:{P07741}  
14189 Pathogen[ P03383] interacts with 1 human partners:{P07741}  
14190 Pathogen[ P03410] interacts with 1 human partners:{P07741}  
14191 Pathogen[ P14075] interacts with 1 human partners:{P07741}  
14192 Pathogen[ P0C206] interacts with 1 human partners:{P07741}  
14193 Pathogen[ P03363] interacts with 1 human partners:{P07741}  
14194 [Cluster 1291]GO:0090084+P biological\_process [name] negative regulation of inclusion body assembly [def] "Any process that decreases the rate, frequency, or extent of inclusion body assembly. Inclusion body assembly is the aggregation, arrangement and bonding together of a set of components to form an inclusion body." [GOC  
14195 Pathogen[ Q2Q067] interacts with 2 human partners:{P08107;Q9NZJ4}  
14196 Pathogen[ P0C214] interacts with 2 human partners:{Q9NZJ4;P08107}  
14197 Pathogen[ P03346] interacts with 3 human partners:{P08107;P25686;Q9NZJ4}  
14198 Pathogen[ Q85601] interacts with 2 human partners:{P08107;Q9NZJ4}  
14199 Pathogen[ P14079] interacts with 2 human partners:{Q9NZJ4;P08107}  
14200 Pathogen[ P03383] interacts with 1 human partners:{P08107}  
14201 Pathogen[ P03410] interacts with 3 human partners:{P25686;Q9NZJ4;P08107}  
14202 Pathogen[ P14075] interacts with 1 human partners:{P08107}  
14203 Pathogen[ P0C206] interacts with 2 human partners:{Q9NZJ4;P08107}  
14204 Pathogen[ P03363] interacts with 2 human partners:{Q9NZJ4;P08107}  
14205 [Cluster 1292]GO:0045116+P biological\_process [name] protein neddylation [def] "Covalent attachment of the ubiquitin-like protein NEDD8 (RUB1) to another protein." [PMID  
14206 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9UBF6;P62877}  
14207 Pathogen[ P0C214] interacts with 4 human partners:{P62877;Q969M7;P61081;Q9UBF6}  
14208 Pathogen[ P03346] interacts with 2 human partners:{P62877;Q9UBF6}  
14209 Pathogen[ Q85601] interacts with 3 human partners:{P62877;Q9UBF6;Q969M7}  
14210 Pathogen[ P14079] interacts with 3 human partners:{Q9UBF6;P62877;Q969M7}  
14211 Pathogen[ P03383] interacts with 2 human partners:{Q9UBF6;P62877}  
14212 Pathogen[ P03410] interacts with 3 human partners:{Q9UBF6;P62877;Q969M7}  
14213 Pathogen[ P14075] interacts with 2 human partners:{Q9UBF6;P62877}  
14214 Pathogen[ P0C206] interacts with 3 human partners:{P62877;Q969M7;Q9UBF6}  
14215 Pathogen[ P03363] interacts with 4 human partners:{P61081;Q9UBF6;P62877;Q969M7}  
14216 [Cluster 1293]GO:0046134+P biological\_process [name] pyrimidine nucleoside biosynthetic process [def] "The chemical reactions and pathways resulting in the

formation of one of a family of organic molecules consisting of a pyrimidine base covalently bonded to a sugar ribose (a ribonucleoside) or deoxyribose (a deoxyribonucleoside)." [GOC

14217 Pathogen[ Q2Q067] interacts with 3 human partners:{P33316;P04818;P11172}

14218 Pathogen[ P0C214] interacts with 3 human partners:{P04818;P33316;P11172}

14219 Pathogen[ P03346] interacts with 2 human partners:{P11172;P33316}

14220 Pathogen[ Q85601] interacts with 2 human partners:{P11172;P33316}

14221 Pathogen[ P14079] interacts with 3 human partners:{P11172;P33316;P04818}

14222 Pathogen[ P03383] interacts with 2 human partners:{P33316;P11172}

14223 Pathogen[ P03410] interacts with 3 human partners:{P11172;P33316;P04818}

14224 Pathogen[ P14075] interacts with 2 human partners:{P11172;P33316}

14225 Pathogen[ P0C206] interacts with 3 human partners:{P33316;P11172;P04818}

14226 Pathogen[ P03363] interacts with 2 human partners:{P33316;P11172}

14227 [Cluster 1294]GO:0030194+P biological\_process [name] positive regulation of blood coagulation [def] "Any process that activates or increases the frequency, rate or extent of blood coagulation." [GOC

14228 Pathogen[ Q2Q067] interacts with 1 human partners:{Q16236}

14229 Pathogen[ P0C214] interacts with 2 human partners:{P05121;Q16236}

14230 Pathogen[ P03346] interacts with 1 human partners:{Q16236}

14231 Pathogen[ Q85601] interacts with 2 human partners:{Q16236;P05121}

14232 Pathogen[ P14079] interacts with 1 human partners:{Q16236}

14233 Pathogen[ P03383] interacts with 1 human partners:{Q16236}

14234 Pathogen[ P03410] interacts with 2 human partners:{P05121;Q16236}

14235 Pathogen[ P14075] interacts with 1 human partners:{Q16236}

14236 Pathogen[ P0C206] interacts with 2 human partners:{P05121;Q16236}

14237 Pathogen[ P03363] interacts with 1 human partners:{Q16236}

14238 [Cluster 1295]GO:0043589+P biological\_process [name] skin morphogenesis [def] "The process in which the anatomical structures of the skin are generated and organized. The skin is the external membranous integument of an animal. In vertebrates the skin generally consists of two layers, an outer nonsensitive and nonvascular epidermis (cuticle or skarfskin) composed of cells which are constantly growing and multiplying in the deeper, and being thrown off in the superficial layers, as well as an inner, sensitive and vascular dermis (cutis, corium or true skin) composed mostly of connective tissue." [GOC

14239 Pathogen[ Q2Q067] interacts with 2 human partners:{P11831;Q9UJM3}

14240 Pathogen[ P0C214] interacts with 2 human partners:{P11831;Q9UJM3}

14241 Pathogen[ P03346] interacts with 2 human partners:{P11831;Q9UJM3}

14242 Pathogen[ Q85601] interacts with 2 human partners:{P11831;Q9UJM3}

14243 Pathogen[ P14079] interacts with 1 human partners:{Q9UJM3}

14244 Pathogen[ P03383] interacts with 2 human partners:{P11831;Q9UJM3}

14245 Pathogen[ P03410] interacts with 3 human partners:{P11831;Q15517;Q9UJM3}

14246 Pathogen[ P14075] interacts with 2 human partners:{P11831;Q9UJM3}

14247 Pathogen[ P0C206] interacts with 2 human partners:{P11831;Q9UJM3}

14248 Pathogen[ P03363] interacts with 2 human partners:{P11831;Q9UJM3}

14249 [Cluster 1296]GO:0032402+P biological\_process [name] melanosome transport [def] "The directed movement of melanosomes into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore." [GOC

14250 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9UL45;Q6QNY0;Q8TDH9}

14251 Pathogen[ P0C214] interacts with 3 human partners:{Q8TDH9;Q6QNY0;Q9UL45}

14252 Pathogen[ P03346] interacts with 3 human partners:{Q6QNY0;Q9UL45;Q8TDH9}

14253 Pathogen[ Q85601] interacts with 2 human partners:{Q6QNY0;Q8TDH9}

14254 Pathogen[ P14079] interacts with 5 human partners:{Q6QNY0;Q8N3I7;Q8IWZ6;Q9UL45;Q8TDH9}

14255 Pathogen[ P03383] interacts with 2 human partners:{Q6QNY0;Q8TDH9}

14256 Pathogen[ P03410] interacts with 5 human partners:{Q6QNY0;Q9UL45;Q8N3I7;Q8IWZ6;Q8TDH9}

14257 Pathogen[ P14075] interacts with 2 human partners:{Q6QNY0;Q8TDH9}

14258 Pathogen[ P0C206] interacts with 4 human partners:{Q9UL45;Q8TDH9;Q8N3I7;Q6QNY0}

14259 Pathogen[ P03363] interacts with 2 human partners:{Q8TDH9;Q6QNY0}

14260 [Cluster 1297]GO:0043923+P biological\_process [name] positive regulation by host of viral transcription [def] "Any process is which a host organism activates or increases the frequency, rate or extent of viral transcription, the synthesis of either RNA on a template of DNA or DNA on a template of RNA." [GOC

14261 Pathogen[ Q2Q067] interacts with 6 human partners:{Q01664;P08047;Q15544;P51532;Q9UID6;Q12824}

14262 Pathogen[ P0C214] interacts with 7 human partners:{Q9UID6;Q12824;Q15544;P05412;Q01664;P08047;P51532}

14263 Pathogen[ P03346] interacts with 7 human partners:{P05412;P51532;Q12824;P08047;Q9UID6;Q01664;Q15544}

14264 Pathogen[ Q85601] interacts with 7 human partners:{Q9UID6;P08047;P51532;P05412;Q12824;Q01664;Q15544}

14265 Pathogen[ P14079] interacts with 5 human partners:{P51532;Q9UID6;Q01664;Q12824;P05412}

14266 Pathogen[ P03383] interacts with 7 human partners:{P08047;Q15544;Q12824;Q01664;Q9UID6;P51532;P05412}

14267 Pathogen[ P03410] interacts with 7 human

14268 partners:{P51532;P05412;Q15544;Q01664;P08047;Q9UID6;Q12824}  
Pathogen[ P14075] interacts with 7 human

14269 partners:{P05412;P51532;Q9UID6;Q15544;Q01664;Q12824;P08047}  
Pathogen[ POC206] interacts with 7 human

14270 partners:{Q9UID6;P51532;Q15544;P05412;Q12824;P08047;Q01664}  
Pathogen[ P03363] interacts with 7 human

14271 partners:{P51532;Q15544;P05412;P08047;Q9UID6;Q01664;Q12824}  
[Cluster 1298]GO:0048840+P biological\_process [name] otolith development [def] "The process whose specific outcome is the progression of the otolith over time, from its formation to the mature structure." [GOC

14272 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9H1Y0}  
14273 Pathogen[ POC214] interacts with 1 human partners:{Q9H1Y0}  
14274 Pathogen[ P03346] interacts with 1 human partners:{Q9H1Y0}  
14275 Pathogen[ Q85601] interacts with 1 human partners:{Q9H1Y0}  
14276 Pathogen[ P14079] interacts with 1 human partners:{Q9H1Y0}  
14277 Pathogen[ P03383] interacts with 1 human partners:{Q9H1Y0}  
14278 Pathogen[ P03410] interacts with 1 human partners:{Q9H1Y0}  
14279 Pathogen[ P14075] interacts with 1 human partners:{Q9H1Y0}  
14280 Pathogen[ POC206] interacts with 1 human partners:{Q9H1Y0}  
14281 Pathogen[ P03363] interacts with 1 human partners:{Q9H1Y0}

14282 [Cluster 1299]GO:0043254+P biological\_process [name] regulation of protein complex assembly [def] "Any process that modulates the frequency, rate or extent of protein complex assembly." [GOC

14283 Pathogen[ Q2Q067] interacts with 2 human partners:{P51610;Q8NCD3}  
14284 Pathogen[ POC214] interacts with 2 human partners:{P51610;Q8NCD3}  
14285 Pathogen[ P03346] interacts with 2 human partners:{P51610;Q8NCD3}  
14286 Pathogen[ Q85601] interacts with 2 human partners:{P51610;Q8NCD3}  
14287 Pathogen[ P14079] interacts with 2 human partners:{P51610;Q8NCD3}  
14288 Pathogen[ P03383] interacts with 2 human partners:{P51610;Q8NCD3}  
14289 Pathogen[ P03410] interacts with 2 human partners:{P51610;Q8NCD3}  
14290 Pathogen[ P14075] interacts with 2 human partners:{P51610;Q8NCD3}  
14291 Pathogen[ POC206] interacts with 2 human partners:{Q8NCD3;P51610}  
14292 Pathogen[ P03363] interacts with 2 human partners:{Q8NCD3;P51610}

14293 [Cluster 1300]GO:0003181+P biological\_process [name] atrioventricular valve morphogenesis [def] "The process in which the structure of the atrioventricular valve is generated and organized." [GOC

14294 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9NQ87;Q8IX07}  
14295 Pathogen[ POC214] interacts with 2 human partners:{Q8IX07;Q9NQ87}  
14296 Pathogen[ P03346] interacts with 3 human partners:{Q9NQ87;Q8IX07;Q99593}  
14297 Pathogen[ Q85601] interacts with 2 human partners:{Q9NQ87;Q8IX07}  
14298 Pathogen[ P14079] interacts with 2 human partners:{Q8IX07;Q9NQ87}  
14299 Pathogen[ P03383] interacts with 1 human partners:{Q9NQ87}  
14300 Pathogen[ P03410] interacts with 2 human partners:{Q9NQ87;Q8IX07}  
14301 Pathogen[ P14075] interacts with 1 human partners:{Q9NQ87}  
14302 Pathogen[ POC206] interacts with 2 human partners:{Q9NQ87;Q8IX07}  
14303 Pathogen[ P03363] interacts with 1 human partners:{Q9NQ87}

14304 [Cluster 1301]GO:0070389+P biological\_process [name] chaperone cofactor-dependent protein refolding [def] "The process of assisting in the restoration of the biological activity of an unfolded or misfolded protein, which is dependent on additional protein cofactors. This process occurs over one or several cycles of nucleotide hydrolysis-dependent binding and release." [GOC

14305 Pathogen[ Q2Q067] interacts with 5 human  
partners:{P50502;Q99933;Q99615;Q15185;P25685}

14306 Pathogen[ POC214] interacts with 5 human  
partners:{Q99615;Q99933;Q15185;P50502;P25685}

14307 Pathogen[ P03346] interacts with 5 human  
partners:{Q99615;P25685;P50502;Q15185;Q99933}

14308 Pathogen[ Q85601] interacts with 5 human  
partners:{P25685;Q99933;Q99615;Q15185;P50502}

14309 Pathogen[ P14079] interacts with 5 human  
partners:{P25685;Q99933;Q15185;Q99615;P50502}

14310 Pathogen[ P03383] interacts with 4 human partners:{P50502;Q99615;Q15185;Q99933}  
14311 Pathogen[ P03410] interacts with 5 human  
partners:{Q99933;P50502;P25685;Q99615;Q15185}

14312 Pathogen[ P14075] interacts with 4 human partners:{Q99933;Q99615;Q15185;P50502}  
14313 Pathogen[ POC206] interacts with 5 human  
partners:{Q99933;Q99615;Q15185;P50502;P25685}

14314 Pathogen[ P03363] interacts with 5 human  
partners:{Q99615;P50502;Q15185;P25685;Q99933}

14315 [Cluster 1302]GO:0048008+P biological\_process [name] platelet-derived growth factor receptor signaling pathway [def] "The series of molecular signals generated as a consequence of a platelet-derived growth factor receptor binding to one of its physiological ligands." [GOC

14316 Pathogen[ Q2Q067] interacts with 5 human  
partners:{Q96S65;O14786;P56945;Q14865;Q9H3M7}

14317 Pathogen[ POC214] interacts with 5 human

14318 partners:{Q96S65;O14786;Q14865;P56945;Q9H3M7}  
Pathogen[ P03346] interacts with 6 human

14319 partners:{Q96S65;P56945;Q14865;Q9HB21;Q9H3M7;O14786}  
Pathogen[ Q85601] interacts with 6 human

14320 partners:{Q96S65;O14786;P56945;Q9HB21;Q14865;Q9H3M7}  
Pathogen[ P14079] interacts with 4 human partners:{Q14865;Q96S65;Q9HB21;Q9H3M7}

14321 Pathogen[ P03383] interacts with 3 human partners:{P56945;Q96S65;Q9H3M7}

14322 Pathogen[ P03410] interacts with 6 human  
partners:{O14786;Q9H3M7;Q9HB21;Q96S65;P56945;Q14865}

14323 Pathogen[ P14075] interacts with 3 human partners:{Q96S65;Q9H3M7;P56945}

14324 Pathogen[ P0C206] interacts with 6 human  
partners:{Q96S65;O14786;Q9HB21;Q9H3M7;P56945;Q14865}

14325 Pathogen[ P03363] interacts with 6 human  
partners:{Q96S65;Q14865;O14786;Q9H3M7;Q13480;P56945}

14326 [Cluster 1303]GO:0045792+P biological\_process [name] negative regulation of cell size  
[def] "Any process that reduces cell size." [GOC  
14327 Pathogen[ Q2Q067] interacts with 2 human partners:{P31749;Q96B36}  
14328 Pathogen[ P0C214] interacts with 2 human partners:{Q96B36;P31749}  
14329 Pathogen[ P03346] interacts with 3 human partners:{Q96B36;P31749;Q8TB45}  
14330 Pathogen[ Q85601] interacts with 2 human partners:{P31749;Q96B36}  
14331 Pathogen[ P14079] interacts with 2 human partners:{Q8TB45;Q96B36}  
14332 Pathogen[ P03383] interacts with 2 human partners:{P31749;Q96B36}  
14333 Pathogen[ P03410] interacts with 3 human partners:{P31749;Q96B36;Q8TB45}  
14334 Pathogen[ P14075] interacts with 2 human partners:{Q96B36;P31749}  
14335 Pathogen[ P0C206] interacts with 2 human partners:{P31749;Q96B36}  
14336 Pathogen[ P03363] interacts with 3 human partners:{Q96B36;Q8TB45;P31749}

14337 [Cluster 1304]GO:0000077+P biological\_process [name] DNA damage checkpoint [def] "A  
cell cycle checkpoint that regulates progression through the cell cycle in response to  
DNA damage. A DNA damage checkpoint may blocks cell cycle progression (in G1, G2 or  
metaphase) or slow the rate at which S phase proceeds." [GOC  
14338 Pathogen[ Q2Q067] interacts with 19 human  
partners:{Q9NVH2;O75663;Q99638;Q01094;O14757;Q13156;Q9BSD3;O60934;O96017;Q8WXE1;Q96M  
T8;Q6WBX8;O75943;Q9BVW5;Q9BQA5;Q9NRD1;Q9HAW4;O60671;O60921}

14339 Pathogen[ P0C214] interacts with 18 human  
partners:{Q9NVH2;O75663;Q13156;Q8WXE1;Q9BVW5;Q96MT8;Q6WBX8;Q9NRD1;Q9HAW4;O60921;Q010  
94;O96017;O75943;Q9BSD3;O60671;Q9BQA5;O14757;Q99638}

14340 Pathogen[ P03346] interacts with 21 human  
partners:{O60921;O96017;Q9BSD3;Q6WBX8;Q13156;O14757;Q99638;O00409;Q01094;O75943;Q9NV  
H2;Q9HAW4;O75663;Q8WXE1;Q9NRD1;O60934;O60671;O15516;Q9BVW5;Q96MT8;Q9BQA5}

14341 Pathogen[ Q85601] interacts with 18 human  
partners:{O96017;Q8WXE1;O15516;O14757;O75943;Q9HAW4;Q96MT8;O60921;O75663;Q9BQA5;O606  
71;Q13156;Q6WBX8;Q99638;Q01094;Q9BVW5;O60934;Q9NRD1}

14342 Pathogen[ P14079] interacts with 16 human  
partners:{O60671;O75663;Q6WBX8;Q8WXE1;Q9NVH2;O60934;Q9BSD3;Q9BQA5;Q13156;Q9HAW4;O759  
43;Q99638;Q9NRD1;Q01094;O60921;Q9BVW5}

14343 Pathogen[ P03383] interacts with 17 human  
partners:{O14757;O60671;Q9BVW5;Q8WXE1;Q01094;Q96MT8;O75663;O60921;Q6WBX8;Q9HAW4;Q9BQ  
A5;Q99638;Q9BSD3;Q13156;Q9NRD1;Q9NVH2;O96017}

14344 Pathogen[ P03410] interacts with 18 human  
partners:{O75663;Q9NRD1;O75943;Q9BSD3;Q9BQA5;Q9BVW5;Q6WBX8;Q8WXE1;Q9HAW4;Q99638;Q131  
56;O96017;O14757;O60671;O60921;Q9NVH2;Q01094;O60934}

14345 Pathogen[ P14075] interacts with 17 human  
partners:{Q96MT8;Q8WXE1;Q9BQA5;O60671;Q9BVW5;Q99638;Q13156;Q9HAW4;O96017;Q9NVH2;O756  
63;Q01094;O60921;Q9NRD1;Q9BSD3;Q6WBX8;O14757}

14346 Pathogen[ P0C206] interacts with 20 human  
partners:{Q8WXE1;O96017;Q13156;O60934;Q6WBX8;Q9NVH2;Q9BQA5;O75943;Q99638;Q9NRD1;O756  
63;O15516;Q9BVW5;Q01094;O60921;O60671;Q96MT8;Q9HAW4;Q9BX63;Q9BSD3}

14347 Pathogen[ P03363] interacts with 20 human  
partners:{Q9BSD3;Q9BX63;Q9HAW4;Q96MT8;O60671;O00409;O96017;O75663;Q13156;Q9BVW5;Q010  
94;Q9BQA5;Q6WBX8;Q9NVH2;Q99638;O60921;O75943;Q9NRD1;Q8WXE1;O14757}

14348 [Cluster 1305]GO:0034508+P biological\_process [name] centromere complex assembly  
[def] "The aggregation, arrangement and bonding together of proteins and centromeric DNA  
molecules to form a centromeric protein-DNA complex. Includes the formation of the  
chromatin structures which form a platform for the kinetochore, and assembly of the  
kinetochore onto this specialized chromatin. In fission yeast and higher eukaryotes this  
process also includes the formation of heterochromatin at the outer repeat (pericentric)  
regions of the centromere." [GOC  
14349 Pathogen[ Q2Q067] interacts with 1 human partners:{Q7Z7K6}  
14350 Pathogen[ P0C214] interacts with 1 human partners:{Q7Z7K6}  
14351 Pathogen[ P03346] interacts with 1 human partners:{Q7Z7K6}  
14352 Pathogen[ Q85601] interacts with 1 human partners:{Q7Z7K6}  
14353 Pathogen[ P14079] interacts with 1 human partners:{Q7Z7K6}  
14354 Pathogen[ P03383] interacts with 1 human partners:{Q7Z7K6}  
14355 Pathogen[ P03410] interacts with 1 human partners:{Q7Z7K6}  
14356 Pathogen[ P14075] interacts with 1 human partners:{Q7Z7K6}  
14357 Pathogen[ P0C206] interacts with 1 human partners:{Q7Z7K6}

14358 Pathogen[ P03363] interacts with 1 human partners:{Q7Z7K6}

14359 [Cluster 1306]GO:0015669+P biological\_process [name] gas transport [def] "The directed movement of substances that are gaseous in normal living conditions into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore." [GOC

14360 Pathogen[ Q2Q067] interacts with 1 human partners:{P39019}

14361 Pathogen[ P0C214] interacts with 1 human partners:{P39019}

14362 Pathogen[ P03346] interacts with 1 human partners:{P39019}

14363 Pathogen[ Q85601] interacts with 1 human partners:{P39019}

14364 Pathogen[ P14079] interacts with 1 human partners:{P39019}

14365 Pathogen[ P03383] interacts with 1 human partners:{P39019}

14366 Pathogen[ P03410] interacts with 1 human partners:{P39019}

14367 Pathogen[ P14075] interacts with 1 human partners:{P39019}

14368 Pathogen[ P0C206] interacts with 1 human partners:{P39019}

14369 Pathogen[ P03363] interacts with 1 human partners:{P39019}

14370 [Cluster 1307]GO:000296+P biological\_process [name] spermine transport [def] "The directed movement of spermine, N,N-bis(3-aminopropyl)-1,4-diaminobutane, a polyamine formed by the transfer of a propylamine group from decarboxylated S-adenosylmethionine to spermidine, into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore." [GOC

14371 Pathogen[ Q2Q067] interacts with 1 human partners:{Q15545}

14372 Pathogen[ P0C214] interacts with 1 human partners:{Q15545}

14373 Pathogen[ P03346] interacts with 1 human partners:{Q15545}

14374 Pathogen[ Q85601] interacts with 1 human partners:{Q15545}

14375 Pathogen[ P14079] interacts with 1 human partners:{Q15545}

14376 Pathogen[ P03383] interacts with 1 human partners:{Q15545}

14377 Pathogen[ P03410] interacts with 1 human partners:{Q15545}

14378 Pathogen[ P14075] interacts with 1 human partners:{Q15545}

14379 Pathogen[ P0C206] interacts with 1 human partners:{Q15545}

14380 Pathogen[ P03363] interacts with 1 human partners:{Q15545}

14381 [Cluster 1308]GO:0010890+P biological\_process [name]positive regulation of sequestering of triglyceride [def] "Any process that increases the rate, frequency or extent of sequestering of triglyceride. Triglyceride sequestration is the process of binding or confining any triester of glycerol such that it is separated from other components of a biological system." [GOC

14382 Pathogen[ Q2Q067] interacts with 1 human partners:{O60543}

14383 Pathogen[ P0C214] interacts with 1 human partners:{O60543}

14384 Pathogen[ P03346] interacts with 1 human partners:{O60543}

14385 Pathogen[ Q85601] interacts with 1 human partners:{O60543}

14386 Pathogen[ P14079] interacts with 3 human partners:{Q8N6M3;O60543;A5D6W6}

14387 Pathogen[ P03383] interacts with 1 human partners:{O60543}

14388 Pathogen[ P03410] interacts with 3 human partners:{A5D6W6;Q8N6M3;O60543}

14389 Pathogen[ P14075] interacts with 2 human partners:{O60543;Q8N6M3}

14390 Pathogen[ P0C206] interacts with 3 human partners:{A5D6W6;Q8N6M3;O60543}

14391 Pathogen[ P03363] interacts with 1 human partners:{O60543}

14392 [Cluster 1309]GO:0051402+P biological\_process [name] neuron apoptosis [def] "The process of apoptosis in neurons, the basic cellular unit of nervous tissue. Each neuron consists of a body, an axon, and dendrites. Their purpose is to receive, conduct, and transmit impulses in the nervous system." [MeSH

14393 Pathogen[ Q2Q067] interacts with 9 human partners:{P55957;P06400;P54259;P04406;P61244;Q12983;Q9C000;O95831;Q96A26}

14394 Pathogen[ P0C214] interacts with 9 human partners:{P61244;P55957;P42574;Q12983;O14727;P04406;P06400;P54259;Q9C000}

14395 Pathogen[ P03346] interacts with 14 human partners:{P04406;P06400;P55957;Q96A26;P42574;Q12983;Q6ZPB5;Q8IUQ4;O95831;P61244;O14727;P54259;Q9C000;Q15319}

14396 Pathogen[ Q85601] interacts with 7 human partners:{P54259;O95831;P06400;P55957;P61244;Q12983;P04406}

14397 Pathogen[ P14079] interacts with 11 human partners:{Q6ZPB5;Q9C000;Q969N2;O95831;Q12983;Q96A26;P54259;P61244;P49917;P55957;P04406}

14398 Pathogen[ P03383] interacts with 9 human partners:{P55957;O95831;Q96A26;Q12983;P06400;Q6ZPB5;P04406;P61244;P54259}

14399 Pathogen[ P03410] interacts with 11 human partners:{Q12983;Q9C000;P06400;P61244;P55957;Q96A26;O95831;P04406;Q6ZPB5;Q969N2;P54259}

14400 Pathogen[ P14075] interacts with 9 human partners:{Q12983;P55957;Q96A26;P61244;P04406;O95831;P06400;Q6ZPB5;P54259}

14401 Pathogen[ P0C206] interacts with 13 human partners:{Q9C000;Q8IUQ4;Q96A26;P54259;Q12983;P49917;O95831;P04406;P42574;P61244;Q6ZPB5;P55957;P06400}

14402 Pathogen[ P03363] interacts with 9 human partners:{P55957;Q9C000;P54259;P06400;P61244;P04406;Q6ZPB5;O95831;Q15319}

14403 [Cluster 1310]GO:0042723+P biological\_process [name] thiamine-containing compound metabolic process [def] "The chemical reactions and pathways involving thiamine (vitamin B1), and compounds derived from it." [CHEBI

14404 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BU02}

14405 Pathogen[ POC214] interacts with 1 human partners:{Q9BU02}

14406 Pathogen[ P03346] interacts with 1 human partners:{Q9BU02}

14407 Pathogen[ Q85601] interacts with 1 human partners:{Q9BU02}

14408 Pathogen[ P14079] interacts with 1 human partners:{Q9BU02}

14409 Pathogen[ P03383] interacts with 1 human partners:{Q9BU02}

14410 Pathogen[ P03410] interacts with 1 human partners:{Q9BU02}

14411 Pathogen[ P14075] interacts with 1 human partners:{Q9BU02}

14412 Pathogen[ POC206] interacts with 1 human partners:{Q9BU02}

14413 Pathogen[ P03363] interacts with 1 human partners:{Q9BU02}

14414 [Cluster 1311]GO:0043392+P biological\_process [name] negative regulation of DNA binding [def] "Any process that stops or reduces the frequency, rate or extent of DNA binding. DNA binding is any process in which a gene product interacts selectively with DNA (deoxyribonucleic acid)." [GOC

14415 Pathogen[ Q2Q067] interacts with 13 human partners:{Q16666;Q01664;O00712;P41134;P63165;Q99750;Q9NSA3;Q8WVJ9;Q96T23;P25963;O95271;Q5JVS0;P23497}

14416 Pathogen[ POC214] interacts with 14 human partners:{Q5JVS0;Q16666;Q99750;Q9NSA3;O00712;P41134;P63165;P25963;P23497;P05412;Q8WVJ9;Q96T23;O95271;Q01664}

14417 Pathogen[ P03346] interacts with 15 human partners:{P05412;Q16666;P25963;O00712;Q96JM2;Q9NSA3;P41134;P63165;Q8WVJ9;Q99750;Q96T23;Q5JVS0;O95271;P23497;Q01664}

14418 Pathogen[ Q85601] interacts with 15 human partners:{Q16666;P41134;Q5JVS0;Q96JM2;Q96T23;Q99750;P05412;P63165;O00712;O95271;Q9NSA3;Q01664;P51955;Q8WVJ9;P25963}

14419 Pathogen[ P14079] interacts with 15 human partners:{Q5JVS0;Q96T23;O95271;Q8WVJ9;P63165;Q96JM2;P23497;P51955;Q01664;P41134;P05412;P28360;Q16666;Q99750;O00712}

14420 Pathogen[ P03383] interacts with 13 human partners:{Q5JVS0;Q8WVJ9;O00712;Q96T23;Q01664;Q9NSA3;P63165;Q16666;P25963;P23497;Q99750;O95271;P05412}

14421 Pathogen[ P03410] interacts with 14 human partners:{Q16666;Q96T23;Q8WVJ9;Q9NSA3;P63165;Q96JM2;P41134;O00712;O95271;Q5JVS0;P05412;Q01664;P25963;Q99750}

14422 Pathogen[ P14075] interacts with 13 human partners:{P63165;P23497;P05412;Q16666;P25963;Q8WVJ9;Q01664;Q9NSA3;Q5JVS0;Q99750;Q96T23;O00712;O95271}

14423 Pathogen[ POC206] interacts with 15 human partners:{O95271;Q9NSA3;P51955;P05412;P25963;Q16666;Q96T23;Q8WVJ9;P41134;O00712;Q5JVS0;Q01664;P63165;Q99750;Q96JM2}

14424 Pathogen[ P03363] interacts with 15 human partners:{O00712;P25963;Q99750;P23497;Q16666;Q96T23;Q96JM2;Q9NSA3;P63165;Q5JVS0;P41134;O95271;P05412;Q01664;Q8WVJ9}

14425 [Cluster 1312]GO:0060164+P biological\_process [name] regulation of timing of neuron differentiation [def] "The process controlling the activation and/or rate at which a relatively unspecialized cell acquires features of a neuron." [GOC

14426 Pathogen[ Q2Q067] interacts with 2 human partners:{Q5TGS1;P35711}

14427 Pathogen[ POC214] interacts with 2 human partners:{P35711;Q5TGS1}

14428 Pathogen[ P03346] interacts with 2 human partners:{Q5TGS1;P35711}

14429 Pathogen[ Q85601] interacts with 2 human partners:{Q5TGS1;P35711}

14430 Pathogen[ P14079] interacts with 2 human partners:{P35711;Q5TGS1}

14431 Pathogen[ P03383] interacts with 2 human partners:{P35711;Q5TGS1}

14432 Pathogen[ P03410] interacts with 1 human partners:{Q5TGS1}

14433 Pathogen[ P14075] interacts with 2 human partners:{Q5TGS1;P35711}

14434 Pathogen[ POC206] interacts with 2 human partners:{Q5TGS1;P35711}

14435 Pathogen[ P03363] interacts with 2 human partners:{Q5TGS1;P35711}

14436 [Cluster 1313]GO:0045132+P biological\_process [name] meiotic chromosome segregation [def] "The process in which genetic material, in the form of chromosomes, is organized into specific structures and then physically separated and apportioned to two or more sets during M phase of the meiotic cell cycle." [GOC

14437 Pathogen[ Q2Q067] interacts with 1 human partners:{Q5FBB7}

14438 Pathogen[ POC214] interacts with 2 human partners:{Q5FBB7;P40692}

14439 Pathogen[ P03346] interacts with 1 human partners:{Q5FBB7}

14440 Pathogen[ Q85601] interacts with 2 human partners:{P40692;Q5FBB7}

14441 Pathogen[ P14079] interacts with 2 human partners:{P40692;Q5FBB7}

14442 Pathogen[ P03383] interacts with 1 human partners:{Q5FBB7}

14443 Pathogen[ P03410] interacts with 2 human partners:{P40692;Q5FBB7}

14444 Pathogen[ P14075] interacts with 1 human partners:{Q5FBB7}

14445 Pathogen[ POC206] interacts with 2 human partners:{P40692;Q5FBB7}

14446 Pathogen[ P03363] interacts with 1 human partners:{Q5FBB7}

14447 [Cluster 1314]GO:0021979+P biological\_process [name] hypothalamus cell differentiation [def] "The differentiation of cells that will contribute to the structure and function of the hypothalamus." [GO\_REF

14448 Pathogen[ Q2Q067] interacts with 2 human partners:{P20265;O75360}

14449 Pathogen[ POC214] interacts with 2 human partners:{P20265;O75360}

14450 Pathogen[ P03346] interacts with 3 human partners:{P20265;Q5XKR4;O75360}  
14451 Pathogen[ Q85601] interacts with 2 human partners:{O75360;P20265}  
14452 Pathogen[ P14079] interacts with 2 human partners:{P20265;O75360}  
14453 Pathogen[ P03383] interacts with 2 human partners:{O75360;P20265}  
14454 Pathogen[ P03410] interacts with 2 human partners:{O75360;P20265}  
14455 Pathogen[ P14075] interacts with 2 human partners:{P20265;O75360}  
14456 Pathogen[ P0C206] interacts with 2 human partners:{O75360;P20265}  
14457 Pathogen[ P03363] interacts with 3 human partners:{O75360;P20265;Q5XKR4}  
14458 [Cluster 1315]GO:0010744+P biological\_process [name] positive regulation of macrophage derived foam cell differentiation [def] "Any process that increases the rate, frequency or extent of macrophage derived foam cell differentiation. Macrophage derived foam cell differentiation is the process in which a macrophage acquires the specialized features of a foam cell. A foam cell is a type of cell containing lipids in small vacuoles and typically seen in atherosclerotic lesions, as well as other conditions." [GOC  
14459 Pathogen[ Q2Q067] interacts with 2 human partners:{P19838;P45984}  
14460 Pathogen[ P0C214] interacts with 2 human partners:{P19838;P45984}  
14461 Pathogen[ P03346] interacts with 2 human partners:{P45984;P19838}  
14462 Pathogen[ Q85601] interacts with 2 human partners:{P45984;P19838}  
14463 Pathogen[ P14079] interacts with 2 human partners:{P45984;P04141}  
14464 Pathogen[ P03383] interacts with 2 human partners:{P45984;P19838}  
14465 Pathogen[ P03410] interacts with 3 human partners:{P04141;P19838;P45984}  
14466 Pathogen[ P14075] interacts with 2 human partners:{P19838;P45984}  
14467 Pathogen[ P0C206] interacts with 2 human partners:{P45984;P19838}  
14468 Pathogen[ P03363] interacts with 1 human partners:{P19838}  
14469 [Cluster 1316]GO:0051571+P biological\_process [name] positive regulation of histone H3-K4 methylation [def] "Any process that activates or increases the frequency, rate or extent of the covalent addition of a methyl group to the lysine at position 4 of histone H3." [GOC  
14470 Pathogen[ Q2Q067] interacts with 7 human partners:{Q6ZW49;Q6PD62;Q9GZS3;Q9UBC3;P26358;Q92541;P10242}  
14471 Pathogen[ P0C214] interacts with 6 human partners:{Q92541;Q6ZW49;P26358;P10242;Q6PD62;Q9GZS3}  
14472 Pathogen[ P03346] interacts with 7 human partners:{Q6PD62;Q9UBC3;P26358;P10242;Q92541;Q9GZS3;Q6ZW49}  
14473 Pathogen[ Q85601] interacts with 7 human partners:{Q6PD62;P10242;P26358;Q9GZS3;Q92541;Q6ZW49;Q9UBC3}  
14474 Pathogen[ P14079] interacts with 7 human partners:{Q92541;Q9GZS3;Q6PD62;Q9UBC3;Q6ZW49;P26358;P10242}  
14475 Pathogen[ P03383] interacts with 6 human partners:{Q6PD62;Q6ZW49;P10242;Q92541;Q9GZS3;P26358}  
14476 Pathogen[ P03410] interacts with 7 human partners:{Q6PD62;P10242;Q92541;Q9GZS3;P26358;Q9UBC3;Q6ZW49}  
14477 Pathogen[ P14075] interacts with 6 human partners:{Q6ZW49;P10242;P26358;Q92541;Q6PD62;Q9GZS3}  
14478 Pathogen[ P0C206] interacts with 7 human partners:{Q6PD62;Q6ZW49;P10242;P26358;Q92541;Q9GZS3;Q9UBC3}  
14479 Pathogen[ P03363] interacts with 7 human partners:{Q9GZS3;P26358;P10242;Q92541;Q6ZW49;Q9UBC3;Q6PD62}  
14480 [Cluster 1317]GO:0036265+P  
14481 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9UBP6;O43148;P57081}  
14482 Pathogen[ P0C214] interacts with 3 human partners:{O43148;P57081;Q9UBP6}  
14483 Pathogen[ P03346] interacts with 3 human partners:{O43148;Q9UBP6;P57081}  
14484 Pathogen[ Q85601] interacts with 3 human partners:{O43148;Q9UBP6;P57081}  
14485 Pathogen[ P14079] interacts with 2 human partners:{P57081;O43148}  
14486 Pathogen[ P03383] interacts with 3 human partners:{O43148;Q9UBP6;P57081}  
14487 Pathogen[ P03410] interacts with 3 human partners:{Q9UBP6;P57081;O43148}  
14488 Pathogen[ P14075] interacts with 3 human partners:{P57081;Q9UBP6;O43148}  
14489 Pathogen[ P0C206] interacts with 3 human partners:{Q9UBP6;P57081;O43148}  
14490 Pathogen[ P03363] interacts with 3 human partners:{Q9UBP6;P57081;O43148}  
14491 [Cluster 1318]GO:0032024+P biological\_process [name] positive regulation of insulin secretion [def] "Any process that activates or increases the frequency, rate or extent of the regulated release of insulin." [GOC  
14492 Pathogen[ Q2Q067] interacts with 3 human partners:{O00233;Q8NFW9;Q15466}  
14493 Pathogen[ P0C214] interacts with 5 human partners:{Q8NFW9;Q92934;O60825;O00233;Q15466}  
14494 Pathogen[ P03346] interacts with 5 human partners:{Q06945;Q15466;P78426;O00233;Q8NFW9}  
14495 Pathogen[ Q85601] interacts with 4 human partners:{Q8NFW9;Q15466;O60825;O00233}  
14496 Pathogen[ P14079] interacts with 8 human partners:{Q16517;P20396;O00233;Q8NFW9;Q92934;Q9Y6X1;O60502;Q15466}  
14497 Pathogen[ P03383] interacts with 2 human partners:{O00233;Q15466}  
14498 Pathogen[ P03410] interacts with 8 human partners:{Q16517;O60502;O00233;Q92934;Q8NFW9;Q9Y6X1;Q15466;P20396}  
14499 Pathogen[ P14075] interacts with 2 human partners:{O00233;Q15466}  
14500 Pathogen[ P0C206] interacts with 6 human



partners:{Q15466;Q8NFW9;Q92934;O60825;P20396;O00233}

14501 Pathogen[ P03363] interacts with 2 human partners:{Q15466;Q8NFW9}

14502 [Cluster 1319]GO:0007567+P biological\_process [name] parturition [def] "The reproductive process in which the parent is separated from its offspring either by giving birth to live young or by laying eggs." [ISBN

14503 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9ULX9}

14504 Pathogen[ P0C214] interacts with 1 human partners:{Q9ULX9}

14505 Pathogen[ P03346] interacts with 1 human partners:{Q9ULX9}

14506 Pathogen[ Q85601] interacts with 1 human partners:{Q9ULX9}

14507 Pathogen[ P14079] interacts with 1 human partners:{Q9ULX9}

14508 Pathogen[ P03383] interacts with 1 human partners:{Q9ULX9}

14509 Pathogen[ P03410] interacts with 1 human partners:{Q9ULX9}

14510 Pathogen[ P14075] interacts with 1 human partners:{Q9ULX9}

14511 Pathogen[ P0C206] interacts with 1 human partners:{Q9ULX9}

14512 Pathogen[ P03363] interacts with 1 human partners:{Q9ULX9}

14513 [Cluster 1320]GO:0001570+P biological\_process [name] vasculogenesis [def] "The differentiation of endothelial cells from progenitor cells during blood vessel development, and the de novo formation of blood vessels and tubes." [PMID

14514 Pathogen[ Q2Q067] interacts with 13 human partners:{Q6ZW49;Q8WW38;P46937;Q15562;Q92990;Q08050;Q99966;Q9BSQ5;Q8WUI4;Q9Y5J3;Q9HBD4;Q07352;Q14999}

14515 Pathogen[ P0C214] interacts with 14 human partners:{Q9UGM6;Q9BSQ5;P17275;Q9HBD4;Q9Y5J3;P46937;Q14999;Q6ZW49;Q07352;Q99966;Q8WW38;P19429;Q8WUI4;Q15562}

14516 Pathogen[ P03346] interacts with 18 human partners:{P31271;Q15562;P46937;Q9HBD4;Q99966;Q96PU8;Q8WW38;Q92990;P17275;Q9BYW2;Q08050;Q9Y5J3;Q8WUI4;Q07352;P35713;Q14999;Q6ZW49;Q9BSQ5}

14517 Pathogen[ Q85601] interacts with 14 human partners:{Q8WW38;Q99966;Q07352;Q15562;Q6ZW49;Q9HBD4;P31271;Q14999;P46937;Q08050;Q8WUI4;Q9BSQ5;P17275;Q9Y5J3}

14518 Pathogen[ P14079] interacts with 16 human partners:{P19429;Q8WUI4;Q99966;O60895;P46937;P31271;Q92990;Q9BSQ5;Q9Y5J3;P17275;Q6ZW49;Q9UGM6;Q15562;Q14999;Q8WW38;Q07352}

14519 Pathogen[ P03383] interacts with 11 human partners:{Q9HBD4;Q15562;Q8WW38;Q07352;Q6ZW49;Q92990;Q8WUI4;P17275;P46937;Q14999;Q9BSQ5}

14520 Pathogen[ P03410] interacts with 15 human partners:{Q9Y5J3;O60895;P19429;Q8WW38;Q8WUI4;P17275;Q92990;P46937;Q9UGM6;Q9HBD4;Q15562;Q6ZW49;Q07352;Q9BSQ5;Q99966}

14521 Pathogen[ P14075] interacts with 12 human partners:{Q92990;Q9HBD4;Q15562;P17275;Q6ZW49;Q08050;Q8WW38;Q14999;Q07352;Q9BSQ5;P46937;Q8WUI4}

14522 Pathogen[ P0C206] interacts with 18 human partners:{P46937;P17275;Q6ZW49;Q8WW38;Q9BSQ5;P19429;Q96PU8;Q9UGM6;Q14999;Q92990;Q9Y5J3;Q8WUI4;Q15562;Q08050;Q99966;P31271;Q9HBD4;Q07352}

14523 Pathogen[ P03363] interacts with 17 human partners:{Q9Y5J3;Q15562;Q92990;P31271;Q9BSQ5;Q8N302;P17275;Q96PU8;Q07352;Q08050;P46937;Q14999;Q9HBD4;Q8WUI4;Q8WW38;Q6ZW49;P19429}

14524 [Cluster 1321]GO:0002218+P biological\_process [name] activation of innate immune response [def] "Any process that initiates an innate immune response. Innate immune responses are defense responses mediated by germline encoded components that directly recognize components of potential pathogens. Examples of this process include activation of the hypersensitive response of Arabidopsis thaliana and activation of any NOD or TLR signaling pathway in vertebrate species." [GO\_REF

14525 Pathogen[ Q2Q067] interacts with 2 human partners:{Q16666;O14862}

14526 Pathogen[ P0C214] interacts with 4 human partners:{Q9NPP4;Q16666;Q86WV6;O14862}

14527 Pathogen[ P03346] interacts with 3 human partners:{Q16666;Q9NPP4;O14862}

14528 Pathogen[ Q85601] interacts with 3 human partners:{Q86WV6;Q16666;O14862}

14529 Pathogen[ P14079] interacts with 5 human partners:{Q7Z434;Q86WV6;O14862;Q16666;Q9NPP4}

14530 Pathogen[ P03383] interacts with 2 human partners:{O14862;Q16666}

14531 Pathogen[ P03410] interacts with 5 human partners:{Q16666;O14862;Q9NPP4;Q7Z434;Q86WV6}

14532 Pathogen[ P14075] interacts with 2 human partners:{Q16666;O14862}

14533 Pathogen[ P0C206] interacts with 3 human partners:{O14862;Q16666;Q86WV6}

14534 Pathogen[ P03363] interacts with 3 human partners:{Q16666;O14862;Q9NPP4}

14535 [Cluster 1322]GO:0060485+P biological\_process [name] mesenchyme development [def] "The process whose specific outcome is the progression of a mesenchymal tissue over time, from its formation to the mature structure. A mesenchymal tissue is made up of loosely packed stellate cells." [GOC

14536 Pathogen[ Q2Q067] interacts with 1 human partners:{O96004}

14537 Pathogen[ P0C214] interacts with 1 human partners:{O96004}

14538 Pathogen[ P03346] interacts with 1 human partners:{O96004}

14539 Pathogen[ Q85601] interacts with 1 human partners:{O96004}

14540 Pathogen[ P14079] interacts with 1 human partners:{O96004}

14541 Pathogen[ P03383] interacts with 1 human partners:{O96004}

14542 Pathogen[ P03410] interacts with 1 human partners:{096004}

14543 Pathogen[ P14075] interacts with 1 human partners:{096004}

14544 Pathogen[ P0C206] interacts with 1 human partners:{096004}

14545 Pathogen[ P03363] interacts with 1 human partners:{096004}

14546 [Cluster 1323]GO:0051291+P biological\_process [name] protein heterooligomerization [def] "The process of creating protein oligomers, compounds composed of a small number, usually between three and ten, of component monomers that are not all identical. Oligomers may be formed by the polymerization of a number of monomers or the depolymerization of a large protein polymer." [GOC

14547 Pathogen[ Q2Q067] interacts with 11 human partners:{P30793;P61457;O75448;Q14790;Q86UL8;O43593;P68871;Q9NVD7;P69905;P30047;Q9H0N5}

14548 Pathogen[ P0C214] interacts with 12 human partners:{Q9Y376;P62993;P61457;P69905;Q9H0N5;P30793;P68871;O43593;O75448;Q9NVD7;P30047;Q14790}

14549 Pathogen[ P03346] interacts with 13 human partners:{P62993;P69905;Q9Y376;P30047;O43593;O75448;Q86UL8;Q9NVD7;P68871;Q14790;Q9UHD8;P61457;Q9H0N5}

14550 Pathogen[ Q85601] interacts with 13 human partners:{P69905;Q9NVD7;P62993;Q9H0N5;Q14790;Q86UL8;Q9Y376;O75448;P30793;P30047;P68871;O43593;P61457}

14551 Pathogen[ P14079] interacts with 15 human partners:{P61457;P69905;P07919;P30793;O75448;Q9H0N5;P68871;Q14790;Q9Y478;Q86UL8;P62993;Q9NVD7;Q9Y376;O43593;P30047}

14552 Pathogen[ P03383] interacts with 6 human partners:{P69905;P68871;P61457;O75448;Q9H0N5;P30047}

14553 Pathogen[ P03410] interacts with 14 human partners:{P30047;P07919;P30793;P68871;Q9Y376;Q9UHD8;Q9NVD7;Q9H0N5;Q86UL8;P69905;P62993;O75448;O43593;P61457}

14554 Pathogen[ P14075] interacts with 7 human partners:{P68871;O75448;Q9H0N5;P30047;P61457;P30793;P69905}

14555 Pathogen[ P0C206] interacts with 14 human partners:{P68871;Q9NVD7;Q9Y376;P30793;P62993;P30047;P69905;Q14790;P61457;O75448;Q16181;Q9H0N5;Q86UL8;O43593}

14556 Pathogen[ P03363] interacts with 12 human partners:{P69905;P68871;Q9H0N5;Q9NVA2;O43593;P61457;Q9UHD8;Q9Y376;O75448;Q86UL8;P30047;Q9NVD7}

14557 [Cluster 1324]GO:0045110+P biological\_process [name] intermediate filament bundle assembly [def] "The formation of the bundles of intermediate filaments, known as tonofilaments. Intermediate filament-associated proteins (IFAPs) cross-link intermediate filaments with one another, forming a bundle or a network, and with other cell structures, including the plasma membrane. The organization of intermediate filaments and their supportive function in various cells types depends in large part on their linkage to other cell structures via IFAPs." [ISBN

14558 Pathogen[ Q2Q067] interacts with 3 human partners:{P12036;P02533;P07197}

14559 Pathogen[ P0C214] interacts with 3 human partners:{P02533;P12036;P07197}

14560 Pathogen[ P03346] interacts with 4 human partners:{Q13835;P07197;P12036;P02533}

14561 Pathogen[ Q85601] interacts with 3 human partners:{P02533;P12036;P07197}

14562 Pathogen[ P14079] interacts with 4 human partners:{Q13835;P12036;P02533;P07197}

14563 Pathogen[ P03383] interacts with 3 human partners:{P02533;P12036;P07197}

14564 Pathogen[ P03410] interacts with 4 human partners:{P02533;P12036;Q13835;P07197}

14565 Pathogen[ P14075] interacts with 3 human partners:{P12036;P07197;P02533}

14566 Pathogen[ P0C206] interacts with 4 human partners:{P12036;Q13835;P02533;P07197}

14567 Pathogen[ P03363] interacts with 4 human partners:{P02533;Q13835;P07197;P12036}

14568 [Cluster 1325]GO:0016577+P biological\_process [name] histone demethylation [def] "The modification of histones by removal of methyl groups." [GOC

14569 Pathogen[ Q2Q067] interacts with 2 human partners:{Q8NHM5;O75164}

14570 Pathogen[ P0C214] interacts with 2 human partners:{O75164;Q8NHM5}

14571 Pathogen[ P03346] interacts with 2 human partners:{O75164;Q8NHM5}

14572 Pathogen[ Q85601] interacts with 2 human partners:{Q8NHM5;O75164}

14573 Pathogen[ P14079] interacts with 1 human partners:{Q8NHM5}

14574 Pathogen[ P03383] interacts with 1 human partners:{O75164}

14575 Pathogen[ P03410] interacts with 1 human partners:{O75164}

14576 Pathogen[ P14075] interacts with 1 human partners:{O75164}

14577 Pathogen[ P0C206] interacts with 2 human partners:{Q8NHM5;O75164}

14578 Pathogen[ P03363] interacts with 1 human partners:{O75164}

14579 [Cluster 1326]GO:0032481+P biological\_process [name] positive regulation of type I interferon production [def] "Any process that activates or increases the frequency, rate, or extent of type I interferon production. Type I interferons include the interferon-alpha, beta, delta, epsilon, zeta, kappa, tau, and omega gene families." [GOC

14580 Pathogen[ Q2Q067] interacts with 13 human partners:{Q8IUC6;Q15653;Q04206;Q9H171;Q7Z2W4;Q14653;P10914;Q9Y6K9;P19838;P25963;O14920;Q00653;O15111}

14581 Pathogen[ P0C214] interacts with 13 human partners:{Q00653;O15111;Q9Y6K9;P19838;Q8IUC6;Q9H171;Q04206;P10914;Q15653;Q7Z2W4;P25963}

63;Q14653;O14920}  
14582 Pathogen[ P03346] interacts with 13 human  
partners:{Q9Y6K9;O15111;P25963;Q9H171;Q15653;Q04206;P10914;Q14653;Q8IUC6;P19838;O14920;Q00653;Q7Z2W4}  
14583 Pathogen[ Q85601] interacts with 13 human  
partners:{Q8IUC6;O15111;Q7Z2W4;Q15653;P10914;Q14653;Q9Y6K9;Q9H171;O14920;Q04206;Q00653;P19838;P25963}  
14584 Pathogen[ P14079] interacts with 8 human  
partners:{Q14653;Q7Z2W4;Q8IUC6;Q9H171;Q9Y6K9;Q96C10;P10914;Q15653}  
14585 Pathogen[ P03383] interacts with 13 human  
partners:{P10914;Q14653;Q9Y6K9;Q8IUC6;Q00653;O14920;O15111;Q15653;Q9H171;P25963;Q04206;P19838;Q7Z2W4}  
14586 Pathogen[ P03410] interacts with 14 human  
partners:{Q04206;P19838;O14920;O15111;Q14653;Q15653;Q9H171;Q7Z2W4;P10914;Q96C10;Q8IUC6;Q00653;Q9Y6K9;P25963}  
14587 Pathogen[ P14075] interacts with 13 human  
partners:{O15111;Q04206;Q15653;P25963;O14920;Q14653;Q7Z2W4;Q8IUC6;P19838;Q00653;Q9Y6K9;P10914;Q9H171}  
14588 Pathogen[ P0C206] interacts with 14 human  
partners:{P10914;O14920;Q9Y6K9;P25963;Q15653;P19838;Q9H171;Q04206;O15111;Q8IUC6;Q00653;Q96C10;Q7Z2W4;Q14653}  
14589 Pathogen[ P03363] interacts with 12 human  
partners:{Q14653;O14920;Q04206;P25963;O15111;Q7Z2W4;Q9Y6K9;Q15653;Q00653;P10914;P19838;Q9H171}  
14590 [Cluster 1327]GO:0001756+P biological\_process [name] somitogenesis [def] "The formation of mesodermal clusters that are arranged segmentally along the anterior posterior axis of an embryo." [ISBN  
14591 Pathogen[ Q2Q067] interacts with 9 human  
partners:{P13349;O60315;Q8IZP0;Q86YC2;P84022;Q92830;Q5TAB7;Q0VG99;P23409}  
14592 Pathogen[ P0C214] interacts with 7 human  
partners:{Q8IZP0;P13349;P84022;Q5TAB7;Q86YC2;Q92830;O60315}  
14593 Pathogen[ P03346] interacts with 11 human  
partners:{P15863;Q0VG99;P13349;Q8IZP0;O60315;P23409;Q92830;P84022;A6NI15;Q86YC2;Q5TAB7}  
14594 Pathogen[ Q85601] interacts with 9 human  
partners:{Q0VG99;P13349;O60315;P23409;Q92830;Q86YC2;P84022;Q5TAB7;Q8IZP0}  
14595 Pathogen[ P14079] interacts with 9 human  
partners:{P13349;P23409;Q92830;Q8IZP0;Q86YC2;O60315;Q9H488;Q5TAB7;O15273}  
14596 Pathogen[ P03383] interacts with 4 human partners:{Q5TAB7;P84022;Q92830;Q86YC2}  
14597 Pathogen[ P03410] interacts with 9 human  
partners:{P84022;Q92830;P23409;Q5TAB7;O15273;P13349;Q8IZP0;Q9H488;Q86YC2}  
14598 Pathogen[ P14075] interacts with 4 human partners:{Q86YC2;Q5TAB7;P84022;Q92830}  
14599 Pathogen[ P0C206] interacts with 10 human  
partners:{P84022;Q92830;Q86YC2;P23409;Q8IZP0;P13349;Q5TAB7;O60315;Q86YT6;Q0VG99}  
14600 Pathogen[ P03363] interacts with 9 human  
partners:{Q8IZP0;O60315;Q0VG99;P13349;Q92830;P84022;Q5TAB7;P23409;Q86YC2}  
14601 [Cluster 1328]GO:0051322+P biological\_process [name] anaphase [def] "A cell cycle process comprising the steps by which a cell progresses through anaphase, the third stage of chromosome segregation in the cell cycle. Canonically, sister chromatids (or homologous chromosomes) separate and migrate towards the poles of the spindle." [GOC  
14602 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13618}  
14603 Pathogen[ P0C214] interacts with 2 human partners:{Q9UJP4;Q13618}  
14604 Pathogen[ P03346] interacts with 3 human partners:{Q13618;Q9UJP4;Q9H0E7}  
14605 Pathogen[ Q85601] interacts with 3 human partners:{Q9H0E7;Q9UJP4;Q13618}  
14606 Pathogen[ P14079] interacts with 2 human partners:{Q13618;Q9UJP4}  
14607 Pathogen[ P03383] interacts with 1 human partners:{Q13618}  
14608 Pathogen[ P03410] interacts with 2 human partners:{Q13618;Q9UJP4}  
14609 Pathogen[ P14075] interacts with 1 human partners:{Q13618}  
14610 Pathogen[ P0C206] interacts with 3 human partners:{Q9H0E7;Q9UJP4;Q13618}  
14611 Pathogen[ P03363] interacts with 2 human partners:{Q13618;Q9UJP4}  
14612 [Cluster 1329]GO:0051988+P biological\_process [name] regulation of attachment of spindle microtubules to kinetochore [def] "Any process that modulates the frequency, rate or extent of the attachment of spindle microtubules to the kinetochore." [GOC  
14613 Pathogen[ Q2Q067] interacts with 3 human partners:{Q96R06;Q9Y448;P60953}  
14614 Pathogen[ P0C214] interacts with 3 human partners:{Q96R06;P60953;Q9Y448}  
14615 Pathogen[ P03346] interacts with 4 human partners:{Q96R06;P60953;Q9Y448;Q9H8V3}  
14616 Pathogen[ Q85601] interacts with 4 human partners:{Q96R06;Q9Y448;P60953;P51955}  
14617 Pathogen[ P14079] interacts with 4 human partners:{Q96R06;Q9Y448;P51955;Q9H8V3}  
14618 Pathogen[ P03383] interacts with 3 human partners:{P60953;Q96R06;Q9Y448}  
14619 Pathogen[ P03410] interacts with 4 human partners:{Q96R06;Q9Y448;P60953;Q9H8V3}  
14620 Pathogen[ P14075] interacts with 3 human partners:{P60953;Q96R06;Q9Y448}  
14621 Pathogen[ P0C206] interacts with 4 human partners:{P51955;Q9Y448;Q9H8V3;P60953}  
14622 Pathogen[ P03363] interacts with 3 human partners:{Q96R06;Q9Y448;P60953}  
14623 [Cluster 1330]GO:0097039+P biological\_process [name] protein linear polyubiquitination [def] "A protein ubiquitination process in which a linear polymer of ubiquitin, formed by the amino-terminal methionine (M1) of one ubiquitin molecule and by the

carboxy-terminal glycine (G76) of the next, is added to a protein." [GOC

14624 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9H0F6}

14625 Pathogen[ P0C214] interacts with 1 human partners:{Q9H0F6}

14626 Pathogen[ P03346] interacts with 3 human partners:{Q9BYM8;Q9H0F6;Q96EP0}

14627 Pathogen[ Q85601] interacts with 1 human partners:{Q9H0F6}

14628 Pathogen[ P14079] interacts with 3 human partners:{Q96EP0;Q9BYM8;Q9H0F6}

14629 Pathogen[ P03383] interacts with 1 human partners:{Q9H0F6}

14630 Pathogen[ P03410] interacts with 1 human partners:{Q9H0F6}

14631 Pathogen[ P14075] interacts with 1 human partners:{Q9H0F6}

14632 Pathogen[ P0C206] interacts with 3 human partners:{Q96EP0;Q9H0F6;Q9BYM8}

14633 Pathogen[ P03363] interacts with 2 human partners:{Q96EP0;Q9H0F6}

14634 [Cluster 1331]GO:0050942+P biological\_process [name] positive regulation of pigment cell differentiation [def] "Any process that activates or increases the frequency, rate or extent of pigment cell differentiation." [GOC

14635 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9UL45;Q8TDH9}

14636 Pathogen[ P0C214] interacts with 2 human partners:{Q8TDH9;Q9UL45}

14637 Pathogen[ P03346] interacts with 2 human partners:{Q9UL45;Q8TDH9}

14638 Pathogen[ Q85601] interacts with 1 human partners:{Q8TDH9}

14639 Pathogen[ P14079] interacts with 2 human partners:{Q9UL45;Q8TDH9}

14640 Pathogen[ P03383] interacts with 1 human partners:{Q8TDH9}

14641 Pathogen[ P03410] interacts with 2 human partners:{Q9UL45;Q8TDH9}

14642 Pathogen[ P14075] interacts with 1 human partners:{Q8TDH9}

14643 Pathogen[ P0C206] interacts with 2 human partners:{Q9UL45;Q8TDH9}

14644 Pathogen[ P03363] interacts with 1 human partners:{Q8TDH9}

14645 [Cluster 1332]GO:0006525+P biological\_process [name] arginine metabolic process [def] "The chemical reactions and pathways involving arginine, 2-amino-5-(carbamimidamido)pentanoic acid." [CHEBI

14646 Pathogen[ Q2Q067] interacts with 1 human partners:{O95865}

14647 Pathogen[ P0C214] interacts with 1 human partners:{O95865}

14648 Pathogen[ P03346] interacts with 1 human partners:{O95865}

14649 Pathogen[ Q85601] interacts with 1 human partners:{O95865}

14650 Pathogen[ P14079] interacts with 1 human partners:{O95865}

14651 Pathogen[ P03383] interacts with 1 human partners:{O95865}

14652 Pathogen[ P03410] interacts with 1 human partners:{O95865}

14653 Pathogen[ P14075] interacts with 1 human partners:{O95865}

14654 Pathogen[ P0C206] interacts with 1 human partners:{O95865}

14655 Pathogen[ P03363] interacts with 1 human partners:{O95865}

14656 [Cluster 1333]GO:0043984+P biological\_process [name] histone H4-K16 acetylation [def] "The modification of histone H4 by the addition of an acetyl group to a lysine residue at position 16 of the histone." [GOC

14657 Pathogen[ Q2Q067] interacts with 8 human partners:{Q6IE81;Q9HAF1;Q96EZ8;Q9UNL4;P51610;Q8N5Y2;Q7Z3B3;Q68DK7}

14658 Pathogen[ P0C214] interacts with 7 human partners:{P51610;Q9UNL4;Q9HAF1;O95251;Q6IE81;Q96EZ8;Q68DK7}

14659 Pathogen[ P03346] interacts with 10 human partners:{Q9UNL4;Q96EZ8;P51610;Q7Z3B3;Q8N5Y2;O95251;Q68DK7;Q6IE81;Q9H7Z6;Q9HAF1}

14660 Pathogen[ Q85601] interacts with 9 human partners:{Q8N5Y2;O95251;Q9HAF1;Q9H7Z6;Q9UNL4;P51610;Q68DK7;Q6IE81;Q96EZ8}

14661 Pathogen[ P14079] interacts with 12 human partners:{Q68DK7;O95251;Q9UNL4;Q9HAF1;Q6IE81;P51610;Q8N5Y2;Q7Z3B3;Q9HCI7;Q9P2N6;Q96EZ8;Q9H9L4}

14662 Pathogen[ P03383] interacts with 7 human partners:{O95251;Q9UNL4;P51610;Q68DK7;Q9HAF1;Q6IE81;Q96EZ8}

14663 Pathogen[ P03410] interacts with 11 human partners:{Q9P2N6;P51610;O95251;Q9UNL4;Q9HCI7;Q9H9L4;Q96EZ8;Q8N5Y2;Q7Z3B3;Q6IE81;Q68DK7}

14664 Pathogen[ P14075] interacts with 8 human partners:{P51610;Q7Z3B3;Q96EZ8;Q6IE81;Q9HAF1;O95251;Q9UNL4;Q68DK7}

14665 Pathogen[ P0C206] interacts with 13 human partners:{O95251;Q68DK7;Q9H9L4;Q96EZ8;P51610;Q9HCI7;Q9HAF1;Q6IE81;Q9P2N6;Q7Z3B3;Q8N5Y2;Q9UNL4;Q9H7Z6}

14666 Pathogen[ P03363] interacts with 9 human partners:{Q6IE81;Q68DK7;Q8N5Y2;Q9HAF1;Q9UNL4;Q7Z3B3;Q96EZ8;O95251;P51610}

14667 [Cluster 1334]GO:0035914+P biological\_process [name] skeletal muscle cell differentiation [def] "The process in which a relatively unspecialized cell acquires specialized features of a skeletal muscle cell, a somatic cell located in skeletal muscle." [CL

14668 Pathogen[ Q2Q067] interacts with 5 human partners:{P50402;O00512;Q86UU0;O60356;P15172}

14669 Pathogen[ P0C214] interacts with 5 human partners:{P15172;P50402;O60356;Q86UU0;O00512}

14670 Pathogen[ P03346] interacts with 5 human partners:{P15172;O00512;P50402;O60356;Q86UU0}

14671 Pathogen[ Q85601] interacts with 5 human partners:{P15172;Q86UU0;O00512;P50402;O60356}

14672 Pathogen[ P14079] interacts with 5 human

14673 partners:{O00512;Q8NC56;Q86UU0;O60356;P50402}  
Pathogen[ P03383] interacts with 5 human

14674 partners:{P15172;Q86UU0;O00512;P50402;O60356}  
Pathogen[ P03410] interacts with 5 human

14675 partners:{O00512;O60356;P50402;Q8NC56;Q86UU0}  
Pathogen[ P14075] interacts with 5 human

14676 partners:{Q86UU0;O00512;P15172;P50402;O60356}  
Pathogen[ P0C206] interacts with 6 human

14677 partners:{P50402;O00512;Q86UU0;Q8NC56;O60356;P15172}  
Pathogen[ P03363] interacts with 5 human

14678 partners:{O60356;O00512;Q86UU0;P50402;P15172}  
[Cluster 1335]GO:0006369+P biological\_process [name] termination of RNA polymerase II transcription [def] "The process in which the synthesis of an RNA molecule by RNA polymerase II using a DNA template is completed." [GOC

14679 Pathogen[ Q2Q067] interacts with 38 human  
partners:{P83369;P33240;Q86U42;P61326;Q01130;P62318;Q8N684;Q8WTR7;Q07955;Q9BZI7;Q16629;Q10570;Q12996;P62304;P84103;Q8IYB3;Q05048;O94913;Q86V81;P56270;Q05519;P26368;P14678;Q9Y5S9;Q01081;Q9P2I0;Q13243;O43809;Q09161;Q9UNY4;P52298;Q9UKF6;Q14493;O60508;P62306;P62308;Q969L4;P51003}

14680 Pathogen[ P0C214] interacts with 39 human  
partners:{Q12996;Q9BZI7;P26368;P83369;Q09161;P56270;O94913;Q9UKF6;P84103;Q86V81;Q9Y5S9;P51003;O60508;P14678;P62306;Q969L4;Q05048;Q10570;P62308;Q8N684;Q07955;P52298;Q14493;Q8IYB3;O43809;P61326;Q9UNY4;Q13243;Q9P2I0;Q05519;P62318;Q01081;P33240;Q15287;P62304;Q8WTR7;Q86U42;Q16629;Q01130}

14681 Pathogen[ P03346] interacts with 42 human  
partners:{Q9Y5S9;Q9BZI7;Q86U42;Q09161;Q08170;Q8IYB3;P56270;P62304;Q9UKF6;Q8N684;Q13242;Q8WTR7;Q13247;P52298;Q16629;Q07955;Q05048;Q14493;P62318;Q86V81;O60508;P51003;P83369;P62306;O94913;P26368;Q01081;P61326;Q9UNY4;O43809;P84103;Q15287;Q05519;Q01130;P14678;Q9P2I0;Q13243;Q969L4;P62308;Q10570;Q12996;P33240}

14682 Pathogen[ Q85601] interacts with 38 human  
partners:{Q9BZI7;Q8IYB3;P56270;Q13243;Q05048;P62304;Q01130;Q8N684;P61326;Q15287;O94913;Q969L4;Q86V81;Q16629;Q07955;Q09161;P14678;P62306;O60508;P62318;Q10570;Q9P2I0;Q01081;Q05519;P83369;P84103;P62308;P52298;P26368;P51003;Q86U42;Q8WTR7;Q9UKF6;Q9UNY4;Q14493;P33240;O43809;Q9Y5S9}

14683 Pathogen[ P14079] interacts with 38 human  
partners:{O43809;Q15287;Q8WTR7;O60508;Q9UKF6;Q10570;Q9UNY4;P52298;Q13243;Q9Y5S9;P33240;P26368;O94913;Q05048;P83369;P62306;P14678;Q8IYB3;Q16629;P61326;Q9BZI7;Q05519;Q8N684;Q86V81;Q86U42;P62308;P56270;P62304;Q07955;Q969L4;Q01081;Q14493;P51003;Q12996;P62318;Q09161;P84103;Q9P2I0}

14684 Pathogen[ P03383] interacts with 37 human  
partners:{Q07955;Q15287;Q05048;P51003;Q969L4;P56270;P62318;Q9Y5S9;Q10570;P62304;P61326;P26368;Q13243;Q86V81;Q9UKF6;Q09161;Q16629;Q8N684;O94913;Q8IYB3;P33240;P84103;Q01130;Q14493;P14678;Q01081;O43809;P52298;Q05519;Q8WTR7;Q9P2I0;P62308;P83369;Q86U42;Q9UNY4;P62306;Q9BZI7}

14685 Pathogen[ P03410] interacts with 39 human  
partners:{Q01081;Q9UNY4;P26368;Q10570;P61326;P62304;O60508;Q12996;Q8WTR7;Q05048;Q16629;P62306;Q15287;Q9Y5S9;Q14493;P62308;P14678;Q9BZI7;P51003;O43809;Q05519;O94913;Q07955;P52298;Q9P2I0;P83369;P33240;Q86V81;Q8IYB3;Q01130;Q969L4;Q9UKF6;P56270;Q8N684;Q09161;P84103;Q86U42;Q13243;P62318}

14686 Pathogen[ P14075] interacts with 37 human  
partners:{P51003;P62304;Q05519;Q09161;O43809;Q9P2I0;Q86V81;Q13243;Q9UNY4;P61326;Q14493;Q01130;P62306;P62308;Q8WTR7;P62318;P83369;P33240;Q05048;Q15287;P26368;Q01081;Q8IYB3;P14678;Q9Y5S9;P56270;P84103;Q8N684;Q9UKF6;Q86U42;Q16629;Q10570;Q969L4;O94913;Q07955;P52298;Q9BZI7}

14687 Pathogen[ P0C206] interacts with 39 human  
partners:{Q15287;P33240;Q9UKF6;P14678;O60508;Q9BZI7;Q07955;P26368;P52298;P61326;Q01081;Q09161;Q9UNY4;O94913;P62304;Q05519;Q8IYB3;Q8WTR7;Q8N684;Q13243;Q16629;Q86U42;P51003;O43809;Q9P2I0;P83369;Q05048;P62318;Q12996;P62306;P84103;P62308;Q01130;Q14493;Q9Y5S9;Q86V81;Q969L4;Q10570;P56270}

14688 Pathogen[ P03363] interacts with 43 human  
partners:{Q9P2I0;Q10570;Q08170;Q05048;Q16629;P62318;P62304;Q01130;Q86U42;Q92620;O94913;Q9UNY4;P61326;P62306;Q05519;P83369;Q15287;Q8N684;Q13242;Q8IYB3;O43809;P26368;P51003;Q13243;Q86V81;P52298;P56270;Q07955;Q01081;Q9BZI7;Q969L4;Q13247;P62308;Q8WTR7;Q9UKF6;P84103;Q14493;P14678;P33240;Q9Y5S9;Q12996;O60508;Q09161}

14689 [Cluster 1336]GO:0032864+P biological\_process [name] activation of Cdc42 GTPase activity [def] "Any process that initiates the activity of the inactive GTPase Cdc42 through the replacement of GDP by GTP." [GOC

14690 Pathogen[ Q2Q067] interacts with 1 human partners:{O14907}

14691 Pathogen[ P0C214] interacts with 1 human partners:{O14907}

14692 Pathogen[ P03346] interacts with 2 human partners:{O14907;Q5VV41}

14693 Pathogen[ Q85601] interacts with 2 human partners:{O14907;Q9GZM8}

14694 Pathogen[ P14079] interacts with 3 human partners:{O14907;Q9GZM8;Q5VV41}

14695 Pathogen[ P03383] interacts with 1 human partners:{O14907}

14696 Pathogen[ P03410] interacts with 3 human partners:{Q9GZM8;Q5VV41;O14907}

14697 Pathogen[ P14075] interacts with 1 human partners:{O14907}

14698 Pathogen[ P0C206] interacts with 2 human partners:{Q9GZM8;O14907}

14699 Pathogen[ P03363] interacts with 2 human partners:{O14907;Q5VV41}  
14700 [Cluster 1337]GO:0072321+P biological\_process [name] chaperone-mediated protein transport [def] "The directed movement of proteins into, out of or within a cell, or between cells, mediated by chaperone molecules that bind to the transported proteins." [GOC  
14701 Pathogen[ Q2Q067] interacts with 4 human partners:{O60220;P62072;Q9Y5J7;P40855}  
14702 Pathogen[ P0C214] interacts with 5 human partners:{P40855;O60220;P62072;Q9Y5J9;Q9Y5J7}  
14703 Pathogen[ P03346] interacts with 4 human partners:{Q9Y5J7;O60220;P62072;P40855}  
14704 Pathogen[ Q85601] interacts with 5 human partners:{P62072;Q9Y5J9;O60220;Q9Y5J7;P40855}  
14705 Pathogen[ P14079] interacts with 6 human partners:{P40855;P62072;Q9Y5J7;O60220;Q9Y5J9;Q9Y5L4}  
14706 Pathogen[ P03383] interacts with 5 human partners:{Q9Y5J7;P62072;O60220;Q9Y5J9;P40855}  
14707 Pathogen[ P03410] interacts with 6 human partners:{Q9Y5L4;P62072;Q9Y5J7;P40855;Q9Y5J9;O60220}  
14708 Pathogen[ P14075] interacts with 5 human partners:{Q9Y5J9;P62072;P40855;O60220;Q9Y5J7}  
14709 Pathogen[ P0C206] interacts with 6 human partners:{Q9Y5L4;O60220;Q9Y5J9;Q9Y5J7;P40855;P62072}  
14710 Pathogen[ P03363] interacts with 2 human partners:{Q9Y5J7;P40855}  
14711 [Cluster 1338]GO:0035083+P biological\_process [name] cilium axoneme assembly [def] "The assembly of a the bundle of microtubules and associated proteins that forms the core of cilia in eukaryotic cells and is responsible for their movements." [GOC  
14712 Pathogen[ Q2Q067] interacts with 2 human partners:{Q5TD94;O75665}  
14713 Pathogen[ P0C214] interacts with 2 human partners:{O75665;Q5TD94}  
14714 Pathogen[ P03346] interacts with 2 human partners:{Q5TD94;O75665}  
14715 Pathogen[ Q85601] interacts with 2 human partners:{Q5TD94;O75665}  
14716 Pathogen[ P14079] interacts with 4 human partners:{Q9H1X1;O95922;Q5TD94;O75665}  
14717 Pathogen[ P03383] interacts with 2 human partners:{Q5TD94;O75665}  
14718 Pathogen[ P03410] interacts with 4 human partners:{O75665;Q5TD94;Q9H1X1;O95922}  
14719 Pathogen[ P14075] interacts with 2 human partners:{Q5TD94;O75665}  
14720 Pathogen[ P0C206] interacts with 4 human partners:{Q5TD94;O95922;Q9H1X1;O75665}  
14721 Pathogen[ P03363] interacts with 4 human partners:{Q9H1X1;O95922;Q5TD94;O75665}  
14722 [Cluster 1339]GO:0001824+P biological\_process [name] blastocyst development [def] "The process whose specific outcome is the progression of the blastocyst over time, from its formation to the mature structure. The mammalian blastocyst is a hollow ball of cells containing two cell types, the inner cell mass and the trophectoderm." [GOC  
14723 Pathogen[ Q2Q067] interacts with 10 human partners:{O96004;P78545;Q8N5J4;O00321;Q13503;P20823;Q12824;Q01860;P49321;Q9HCS7}  
14724 Pathogen[ P0C214] interacts with 10 human partners:{Q9HCS7;Q12824;O00321;Q8N5J4;P49321;O96004;P78545;Q13503;Q01860;P17980}  
14725 Pathogen[ P03346] interacts with 11 human partners:{Q99626;O00321;Q12824;Q8N5J4;P20823;Q9HCS7;P49321;Q01860;O96004;P78545;Q13503}  
14726 Pathogen[ Q85601] interacts with 10 human partners:{Q9HCS7;P78545;O96004;P49321;Q13503;Q8N5J4;P20823;Q12824;Q01860;O00321}  
14727 Pathogen[ P14079] interacts with 13 human partners:{O00321;O96004;Q9HCS7;Q8N5J4;Q01860;Q86X24;P61803;Q13503;P78545;P49321;Q12824;P43686;P17980}  
14728 Pathogen[ P03383] interacts with 9 human partners:{Q12824;Q9HCS7;Q01860;P49321;O00321;O96004;Q8N5J4;P78545;Q13503}  
14729 Pathogen[ P03410] interacts with 11 human partners:{P49321;Q8N5J4;O96004;Q01860;Q13503;P78545;O00321;Q9HCS7;Q12824;P61803;P17980}  
14730 Pathogen[ P14075] interacts with 9 human partners:{P49321;Q8N5J4;P78545;Q01860;O96004;Q12824;Q9HCS7;Q13503;O00321}  
14731 Pathogen[ P0C206] interacts with 10 human partners:{Q01860;Q12824;P49321;O00321;O96004;P20823;P78545;Q8N5J4;Q13503;Q9HCS7}  
14732 Pathogen[ P03363] interacts with 10 human partners:{Q13503;P49321;Q99626;Q9HCS7;O00321;P78545;Q8N5J4;O96004;Q01860;Q12824}  
14733 [Cluster 1340]GO:0007221+P biological\_process [name] positive regulation of transcription of Notch receptor target [def] "The activation of transcription of specific genes as a result of Notch signaling, mediated by the Notch intracellular domain." [PMID  
14734 Pathogen[ Q2Q067] interacts with 2 human partners:{Q96T37;Q06330}  
14735 Pathogen[ P0C214] interacts with 2 human partners:{Q06330;Q96T37}  
14736 Pathogen[ P03346] interacts with 2 human partners:{Q06330;Q96T37}  
14737 Pathogen[ Q85601] interacts with 2 human partners:{Q06330;Q96T37}  
14738 Pathogen[ P14079] interacts with 2 human partners:{Q96T37;Q06330}  
14739 Pathogen[ P03383] interacts with 1 human partners:{Q06330}  
14740 Pathogen[ P03410] interacts with 2 human partners:{Q06330;Q96T37}  
14741 Pathogen[ P14075] interacts with 1 human partners:{Q06330}  
14742 Pathogen[ P0C206] interacts with 2 human partners:{Q96T37;Q06330}  
14743 Pathogen[ P03363] interacts with 2 human partners:{Q06330;Q96T37}

14744 [Cluster 1341]GO:0042551+P biological\_process [name] neuron maturation [def] "A developmental process, independent of morphogenetic (shape) change, that is required for a neuron to attain its fully functional state." [GOC  
14745 Pathogen[ Q2Q067] interacts with 2 human partners:{P06400;P49918}  
14746 Pathogen[ P0C214] interacts with 2 human partners:{P49918;P06400}  
14747 Pathogen[ P03346] interacts with 5 human  
partners:{Q9NZR4;P06400;P49918;P78411;Q99581}  
14748 Pathogen[ Q85601] interacts with 2 human partners:{P06400;P49918}  
14749 Pathogen[ P14079] interacts with 3 human partners:{Q99581;P49918;O75503}  
14750 Pathogen[ P03383] interacts with 2 human partners:{P06400;P49918}  
14751 Pathogen[ P03410] interacts with 3 human partners:{P06400;O75503;P49918}  
14752 Pathogen[ P14075] interacts with 2 human partners:{P49918;P06400}  
14753 Pathogen[ P0C206] interacts with 4 human partners:{P78411;Q99581;P06400;P49918}  
14754 Pathogen[ P03363] interacts with 5 human  
partners:{P49918;Q9NZR4;P78411;P06400;Q99581}  
14755 [Cluster 1342]GO:0006968+P biological\_process [name] cellular defense response [def] "A defense response that is mediated by cells." [GOC  
14756 Pathogen[ Q2Q067] interacts with 8 human  
partners:{Q04206;Q14119;O95999;P41218;Q14457;Q9UEU5;P15407;Q9UQR1}  
14757 Pathogen[ P0C214] interacts with 7 human  
partners:{Q14457;P15407;Q14119;P41218;Q04206;O95999;Q9UQR1}  
14758 Pathogen[ P03346] interacts with 8 human  
partners:{Q9UQR1;Q04206;Q14457;Q9UEU5;O95999;P41218;Q14119;P15407}  
14759 Pathogen[ Q85601] interacts with 7 human  
partners:{Q9UQR1;Q14457;P15407;Q04206;P41218;O95999;Q14119}  
14760 Pathogen[ P14079] interacts with 11 human  
partners:{Q9UQR1;P41218;O95999;Q13065;P15407;Q9Y6Y9;Q14457;Q6PIZ9;Q9UEU5;O75459;Q141  
19}  
14761 Pathogen[ P03383] interacts with 7 human  
partners:{Q9UQR1;Q14457;Q9UEU5;P41218;P15407;O95999;Q04206}  
14762 Pathogen[ P03410] interacts with 13 human  
partners:{Q04206;Q6PIZ9;P41218;Q9UEU5;Q14457;P33241;Q13065;Q9UQR1;O95999;Q14119;Q9Y6  
Y9;P15407;O75459}  
14763 Pathogen[ P14075] interacts with 7 human  
partners:{Q14457;Q04206;Q9UQR1;Q9UEU5;P41218;O95999;P15407}  
14764 Pathogen[ P0C206] interacts with 9 human  
partners:{Q9UEU5;P15407;O95999;Q14457;P41218;O75459;Q04206;Q9UQR1;Q14119}  
14765 Pathogen[ P03363] interacts with 7 human  
partners:{Q04206;Q14457;P41218;Q9UEU5;Q14119;P15407;Q9UQR1}  
14766 [Cluster 1343]GO:0043278+P biological\_process [name] response to morphine [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a morphine stimulus. Morphine is an opioid alkaloid, isolated from opium, with a complex ring structure." [CHEBI  
14767 Pathogen[ Q2Q067] interacts with 4 human partners:{P63151;Q04206;P53041;Q15121}  
14768 Pathogen[ P0C214] interacts with 4 human partners:{Q04206;Q15121;P63151;P53041}  
14769 Pathogen[ P03346] interacts with 4 human partners:{Q04206;Q15121;P53041;P63151}  
14770 Pathogen[ Q85601] interacts with 4 human partners:{P63151;Q15121;Q04206;P53041}  
14771 Pathogen[ P14079] interacts with 4 human partners:{P53041;Q9UHF0;P63151;Q15121}  
14772 Pathogen[ P03383] interacts with 3 human partners:{Q15121;P53041;Q04206}  
14773 Pathogen[ P03410] interacts with 5 human  
partners:{Q04206;Q15121;P63151;Q9UHF0;P53041}  
14774 Pathogen[ P14075] interacts with 3 human partners:{Q04206;P53041;Q15121}  
14775 Pathogen[ P0C206] interacts with 4 human partners:{Q15121;P53041;P63151;Q04206}  
14776 Pathogen[ P03363] interacts with 4 human partners:{Q04206;P53041;Q15121;P63151}  
14777 [Cluster 1344]GO:0033197+P biological\_process [name] response to vitamin E [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a vitamin E stimulus." [GOC  
14778 Pathogen[ Q2Q067] interacts with 2 human partners:{P24385;P24864}  
14779 Pathogen[ P0C214] interacts with 2 human partners:{P24385;P24864}  
14780 Pathogen[ P03346] interacts with 2 human partners:{P24385;P24864}  
14781 Pathogen[ Q85601] interacts with 2 human partners:{P24385;P24864}  
14782 Pathogen[ P14079] interacts with 1 human partners:{P24864}  
14783 Pathogen[ P03383] interacts with 2 human partners:{P24385;P24864}  
14784 Pathogen[ P03410] interacts with 2 human partners:{P24385;P24864}  
14785 Pathogen[ P14075] interacts with 2 human partners:{P24385;P24864}  
14786 Pathogen[ P0C206] interacts with 2 human partners:{P24864;P24385}  
14787 Pathogen[ P03363] interacts with 2 human partners:{P24864;P24385}  
14788 [Cluster 1345]GO:0007626+P biological\_process [name] locomotory behavior [def] "The specific movement from place to place of an organism in response to external or internal stimuli. Locomotion of a whole organism in a manner dependent upon some combination of that organism's internal state and external conditions." [GOC  
14789 Pathogen[ Q2Q067] interacts with 3 human partners:{Q92562;Q96RL7;Q3C1V8}  
14790 Pathogen[ P0C214] interacts with 6 human  
partners:{P05937;Q9UM54;Q92562;Q8IXF0;Q96RL7;Q3C1V8}

14791 Pathogen[ P03346] interacts with 11 human partners: {Q3C1V8;O75364;O43815;Q99767;Q92562;P05937;P17542;Q8IXF0;Q96RL7;Q9P2D1;P51513}

14792 Pathogen[ Q85601] interacts with 8 human partners: {Q9P2D1;O43815;Q96RL7;Q99767;Q92562;Q8IXF0;Q3C1V8;Q9UM54}

14793 Pathogen[ P14079] interacts with 10 human partners: {A7XYQ1;P05937;Q92562;O43815;Q8IXF0;Q9UM54;Q9P2D1;Q3C1V8;Q96RL7;Q99767}

14794 Pathogen[ P03383] interacts with 2 human partners: {Q96RL7;Q3C1V8}

14795 Pathogen[ P03410] interacts with 10 human partners: {Q92562;Q96RL7;Q8IXF0;Q3C1V8;Q99767;A7XYQ1;Q9UM54;Q9P2D1;P05937;O43815}

14796 Pathogen[ P14075] interacts with 2 human partners: {Q96RL7;Q3C1V8}

14797 Pathogen[ P0C206] interacts with 9 human partners: {Q9UM54;Q92562;O43815;Q9P2D1;Q99767;Q3C1V8;A7XYQ1;Q96RL7;Q8IXF0}

14798 Pathogen[ P03363] interacts with 7 human partners: {Q3C1V8;O43815;Q8IXF0;Q96RL7;P51513;Q99767;P05937}

14799 [Cluster 1346]GO:0043620+P biological\_process [name] regulation of DNA-dependent transcription in response to stress [def] "Modulation of the frequency, rate or extent of transcription from a DNA template as a result of a stimulus indicating the organism is under stress. The stress is usually, but not necessarily, exogenous (e.g. temperature, humidity, ionizing radiation)." [GOC

14800 Pathogen[ Q2Q067] interacts with 2 human partners: {P35638;Q9NYF8}

14801 Pathogen[ P0C214] interacts with 2 human partners: {P35638;Q9NYF8}

14802 Pathogen[ P03346] interacts with 2 human partners: {P35638;Q9NYF8}

14803 Pathogen[ Q85601] interacts with 2 human partners: {Q9NYF8;P35638}

14804 Pathogen[ P14079] interacts with 2 human partners: {Q9NYF8;P35638}

14805 Pathogen[ P03383] interacts with 2 human partners: {P35638;Q9NYF8}

14806 Pathogen[ P03410] interacts with 2 human partners: {P35638;Q9NYF8}

14807 Pathogen[ P14075] interacts with 2 human partners: {P35638;Q9NYF8}

14808 Pathogen[ P0C206] interacts with 2 human partners: {Q9NYF8;P35638}

14809 Pathogen[ P03363] interacts with 2 human partners: {P35638;Q9NYF8}

14810 [Cluster 1347]GO:0006405+P biological\_process [name] RNA export from nucleus [def] "The directed movement of RNA from the nucleus to the cytoplasm." [GOC

14811 Pathogen[ Q2Q067] interacts with 3 human partners: {P62826;Q9UBU9;Q9UUK6}

14812 Pathogen[ P0C214] interacts with 3 human partners: {Q9UUK6;P62826;Q9UBU9}

14813 Pathogen[ P03346] interacts with 4 human partners: {P09651;P62826;Q9UBU9;Q9UUK6}

14814 Pathogen[ Q85601] interacts with 3 human partners: {Q9UBU9;P62826;Q9UUK6}

14815 Pathogen[ P14079] interacts with 3 human partners: {Q9UBU9;Q9UUK6;P62826}

14816 Pathogen[ P03383] interacts with 3 human partners: {Q9UBU9;P62826;Q9UUK6}

14817 Pathogen[ P03410] interacts with 3 human partners: {P62826;Q9UBU9;Q9UUK6}

14818 Pathogen[ P14075] interacts with 3 human partners: {P62826;Q9UBU9;Q9UUK6}

14819 Pathogen[ P0C206] interacts with 3 human partners: {Q9UUK6;P62826;Q9UBU9}

14820 Pathogen[ P03363] interacts with 4 human partners: {P09651;Q9UBU9;Q9UUK6;P62826}

14821 [Cluster 1348]GO:0007062+P biological\_process [name] sister chromatid cohesion [def] "The cell cycle process in which the sister chromatids of a replicated chromosome are joined along the entire length of the chromosome." [GOC

14822 Pathogen[ Q2Q067] interacts with 7 human partners: {P49959;O95347;O43502;Q969H0;Q14683;Q8N3U4;Q9BTE3}

14823 Pathogen[ P0C214] interacts with 7 human partners: {P49959;O95347;Q9BTE3;O43502;Q969H0;Q14683;Q8N3U4}

14824 Pathogen[ P03346] interacts with 8 human partners: {Q5XG87;Q8N3U4;O43502;O95347;Q14683;P49959;Q969H0;Q9BTE3}

14825 Pathogen[ Q85601] interacts with 8 human partners: {O43502;Q9BTE3;O95347;Q969H0;P49959;Q5XG87;Q14683;Q8N3U4}

14826 Pathogen[ P14079] interacts with 9 human partners: {Q969H0;Q5XG87;Q9BTE3;Q8N3U4;O95347;O43502;Q96FC9;Q9UQE7;Q14683}

14827 Pathogen[ P03383] interacts with 5 human partners: {Q14683;Q8N3U4;Q9BTE3;O95347;Q969H0}

14828 Pathogen[ P03410] interacts with 10 human partners: {P49959;Q9UQE7;Q9BTE3;O95347;O43502;Q969H0;Q14683;Q5XG87;Q8N3U4;Q96FC9}

14829 Pathogen[ P14075] interacts with 5 human partners: {Q14683;O95347;Q9BTE3;Q969H0;Q8N3U4}

14830 Pathogen[ P0C206] interacts with 10 human partners: {O43502;Q5XG87;Q9BTE3;P49959;Q969H0;Q9UQE7;O95347;Q14683;Q8N3U4;Q9NTJ3}

14831 Pathogen[ P03363] interacts with 6 human partners: {Q9BTE3;O95347;Q969H0;Q8N3U4;Q14683;O43502}

14832 [Cluster 1349]GO:0019827+P biological\_process [name] stem cell maintenance [def] "The process in which an organism retains a population of stem cells, preventing the commitment of all stem cell progeny to a differentiated cell fate." [GOC

14833 Pathogen[ Q2Q067] interacts with 13 human partners: {Q8WVC0;Q6PD62;Q6P1J9;Q5UIP0;Q7Z7J5;Q92754;Q8N5F7;Q5TAX3;P56279;Q92541;Q9H9Z2;Q8N7H5;Q9HBD4}

14834 Pathogen[ P0C214] interacts with 14 human partners: {Q5UIP0;Q8N5F7;Q9HBD4;Q9NW07;Q92541;Q7Z7J5;Q92754;Q6P1J9;Q8N7H5;Q9H9Z2;Q8WVC0;Q6PD62;P56279;Q5TAX3}

14835 Pathogen[ P03346] interacts with 15 human partners: {Q6PD62;P56279;Q9HBD4;Q9NW07;Q7Z7J5;Q8N5F7;Q92754;Q5TAX3;Q8WVC0;Q92541;Q5UI



14836 Pathogen[ Q85601] interacts with 14 human  
partners: {Q6PD62;Q8WVC0;Q92754;Q6P1J9;P56279;Q8N5F7;Q9NW07;Q92541;Q5TAX3;Q5UIP0;Q9HBD4;Q7Z7J5;Q9H9Z2;Q8N7H5}

14837 Pathogen[ P14079] interacts with 15 human  
partners: {Q92541;Q9H9Z2;Q6PD62;Q95718;Q5TAX3;Q8WVC0;Q7Z7J5;Q92754;P56279;Q6P1J9;Q5UIP0;Q8N7H5;Q9NW07;P13693;Q8N5F7}

14838 Pathogen[ P03383] interacts with 13 human  
partners: {Q7Z7J5;Q6P1J9;Q9HBD4;Q9H9Z2;Q5UIP0;Q6PD62;Q8N5F7;Q5TAX3;Q8WVC0;Q92754;Q92541;P56279;Q8N7H5}

14839 Pathogen[ P03410] interacts with 14 human  
partners: {P56279;Q8WVC0;Q6PD62;Q5TAX3;Q92541;Q8N7H5;Q7Z7J5;P13693;Q6P1J9;Q9NW07;Q9H9Z2;Q5UIP0;Q9HBD4;Q92754}

14840 Pathogen[ P14075] interacts with 13 human  
partners: {Q9HBD4;Q8N5F7;Q8WVC0;Q9H9Z2;Q5TAX3;Q92754;P56279;Q8N7H5;Q6P1J9;Q92541;Q6PD62;Q7Z7J5;Q5UIP0}

14841 Pathogen[ P0C206] interacts with 15 human  
partners: {Q6PD62;Q7Z7J5;Q5UIP0;Q9NW07;Q92541;Q92754;Q9H9Z2;Q95718;Q8N7H5;Q8WVC0;Q5TAX3;Q8N5F7;Q9HBD4;P56279;Q6P1J9}

14842 Pathogen[ P03363] interacts with 14 human  
partners: {Q8WVC0;P56279;Q9NW07;Q6P1J9;Q8N5F7;Q9HBD4;Q5UIP0;Q9H9Z2;Q5TAX3;Q92541;Q7Z7J5;Q8N7H5;Q6PD62;Q92754}

14843 [Cluster 1350]GO:0000083+P biological\_process [name] regulation of transcription involved in G1/S phase of mitotic cell cycle [def] "Any process that regulates transcription such that the target genes are transcribed as part of the G1/S phase of the mitotic cell cycle." [GOC

14844 Pathogen[ Q2Q067] interacts with 17 human  
partners: {O75461;P06400;Q99741;Q9H211;Q99684;Q13415;P12004;O14867;P31350;P24864;O75419;Q16254;P78396;Q9UKT4;P04818;Q9BQA5;Q14207}

14845 Pathogen[ P0C214] interacts with 17 human  
partners: {Q16254;P04818;Q14207;P31350;O75461;P00374;O14867;P78396;Q9H211;O75419;P24864;Q99684;Q9BQA5;P06400;Q9UKT4;Q99741;Q13415}

14846 Pathogen[ P03346] interacts with 16 human  
partners: {P12004;P78396;Q14207;P06400;P24864;Q16254;O14867;P31350;Q99684;Q13415;Q9UKT4;O75461;O75419;Q99741;Q9H211;Q9BQA5}

14847 Pathogen[ Q85601] interacts with 16 human  
partners: {P06400;Q9UKT4;Q13415;P31350;O75461;P78396;Q16254;O14867;Q99684;Q14207;Q9BQA5;P12004;O75419;Q99741;Q9H211;P24864}

14848 Pathogen[ P14079] interacts with 17 human  
partners: {P00374;O14867;O75419;Q9UKT4;Q13415;P78396;P24864;Q16254;Q14207;Q9H211;Q99684;P31350;Q9BQA5;O75461;Q99741;P12004;P04818}

14849 Pathogen[ P03383] interacts with 13 human  
partners: {O75461;Q9UKT4;P06400;P31350;P78396;Q9BQA5;Q16254;Q99684;Q14207;O75419;P24864;Q9H211;Q99741}

14850 Pathogen[ P03410] interacts with 18 human  
partners: {Q9UKT4;O75461;P31350;O75419;Q9BQA5;P00374;Q14207;Q16254;Q9H211;P06400;Q99684;P78396;P04818;O14867;P24864;P12004;Q13415;Q99741}

14851 Pathogen[ P14075] interacts with 13 human  
partners: {Q9H211;Q14207;P31350;Q9BQA5;Q9UKT4;O75419;P78396;Q16254;Q99684;P06400;Q99741;O75461;P24864}

14852 Pathogen[ P0C206] interacts with 17 human  
partners: {O14867;O75419;Q99741;Q9BQA5;Q16254;Q9UKT4;Q9H211;P04818;Q99684;P78396;Q13415;O75461;P24864;Q14207;P31350;P12004;P06400}

14853 Pathogen[ P03363] interacts with 14 human  
partners: {Q99684;O75461;P24864;Q16254;O14867;P06400;Q13415;Q99741;P78396;Q9H211;Q9BQA5;Q9UKT4;Q14207;O75419}

14854 [Cluster 1351]GO:0043401+P biological\_process [name] steroid hormone mediated signaling pathway [def] "A series of molecular signals mediated by a steroid hormone binding to a receptor." [PMID

14855 Pathogen[ Q2Q067] interacts with 13 human  
partners: {P10827;P10589;P13056;P62508;P10828;P49116;P11473;P28702;P55055;Q15466;P08235;P11474;P22736}

14856 Pathogen[ P0C214] interacts with 6 human  
partners: {P11474;P13056;P49116;P10828;P62508;Q15466}

14857 Pathogen[ P03346] interacts with 22 human  
partners: {P10827;P11473;P06401;P08235;P48443;P49116;Q15466;P13056;P10588;P51843;P28702;P22736;Q95718;O75469;P62508;P10828;P11474;O00482;P35398;Q13285;P55055;P10589}

14858 Pathogen[ Q85601] interacts with 14 human  
partners: {P11473;Q15466;P28702;P55055;P22736;P08235;P11474;P10827;O00482;P62508;P49116;P13056;P10828;P10589}

14859 Pathogen[ P14079] interacts with 19 human  
partners: {P13056;P62508;P55055;P35398;P11473;P10828;P08235;P11474;P22736;P48443;P10827;Q95718;O00482;O75469;P28702;P10588;P10589;P49116;Q15466}

14860 Pathogen[ P03383] interacts with 8 human  
partners: {P49116;P11473;P11474;Q15466;P28702;P10828;P62508;P13056}

14861 Pathogen[ P03410] interacts with 11 human

partners:{P10828;P62508;P11473;P22736;P28702;Q15466;P11474;P49116;P10589;P08235;P13056}

14862 Pathogen[ P14075] interacts with 8 human

partners:{P11474;P10828;P13056;P49116;P11473;P28702;Q15466;P62508}

14863 Pathogen[ P0C206] interacts with 20 human

partners:{P10588;Q15466;P35398;P06401;O75469;P55055;P13056;P49116;P22736;O00482;P10589;O95718;P10828;P62508;P28702;P11474;P11473;P08235;P10827;P48443}

14864 Pathogen[ P03363] interacts with 13 human

partners:{P10828;Q15466;P49116;P62508;P11474;P10588;P11473;P28702;P08235;P35398;P10589;P13056;O00482}

14865 [Cluster 1352]GO:0030334+P biological\_process [name] regulation of cell migration [def] "Any process that modulates the frequency, rate or extent of cell migration." [GOC

14866 Pathogen[ Q2Q067] interacts with 8 human

partners:{P02545;P31749;Q9BYG5;Q96IF1;P62328;Q13233;P63000;P61586}

14867 Pathogen[ P0C214] interacts with 8 human

partners:{P63000;P61586;Q13233;P07093;Q9BYG5;P02545;P31749;P62328}

14868 Pathogen[ P03346] interacts with 12 human

partners:{Q96IF1;P02545;P31749;Q9BYG5;Q5JSH3;Q9NVR7;Q13233;P62328;Q9C0H9;P63000;Q9P2A4;P61586}

14869 Pathogen[ Q85601] interacts with 10 human

partners:{P02545;P31749;Q5JSH3;Q9BYG5;P63000;P61586;Q96IF1;P62328;Q13233;P07093}

14870 Pathogen[ P14079] interacts with 10 human

partners:{P31751;Q9BYG5;Q9NVR7;Q9C0H9;Q96IF1;Q5JSH3;P62328;Q9P2A4;P61586;P02545}

14871 Pathogen[ P03383] interacts with 8 human

partners:{P02545;Q13233;P31749;P62328;P63000;P61586;Q9BYG5;Q9C0H9}

14872 Pathogen[ P03410] interacts with 12 human

partners:{Q5JSH3;P62328;P63000;P31749;Q9P2A4;Q13233;Q96IF1;Q9NVR7;P61586;P02545;Q9C0H9;Q9BYG5}

14873 Pathogen[ P14075] interacts with 8 human

partners:{P62328;P31749;P02545;P61586;P63000;Q9BYG5;Q9C0H9;Q13233}

14874 Pathogen[ P0C206] interacts with 11 human

partners:{P31749;Q96IF1;P62328;Q9BYG5;Q9NVR7;Q13233;P61586;P63000;Q9C0H9;P02545;Q5JSH3}

14875 Pathogen[ P03363] interacts with 11 human

partners:{P02545;P62328;P63000;Q96IF1;Q13480;P31749;Q9NVR7;Q9BYG5;Q13233;Q9P2A4;Q9C0H9}

14876 [Cluster 1353]GO:0010469+P biological\_process [name] regulation of receptor activity [def] "Any process that modulates the frequency, rate or extent of receptor activity. Receptor activity is when a molecule combines with an extracellular or intracellular messenger to initiate a change in cell activity." [GOC

14877 Pathogen[ Q2Q067] interacts with 3 human partners:{P67775;P63279;Q15173}

14878 Pathogen[ P0C214] interacts with 4 human partners:{P63279;P05121;Q15173;P67775}

14879 Pathogen[ P03346] interacts with 3 human partners:{P63279;P67775;Q15173}

14880 Pathogen[ Q85601] interacts with 4 human partners:{Q15173;P63279;P05121;P67775}

14881 Pathogen[ P14079] interacts with 2 human partners:{P63279;Q15173}

14882 Pathogen[ P03383] interacts with 3 human partners:{Q15173;P67775;P63279}

14883 Pathogen[ P03410] interacts with 4 human partners:{P05121;Q15173;P63279;P67775}

14884 Pathogen[ P14075] interacts with 3 human partners:{P63279;Q15173;P67775}

14885 Pathogen[ P0C206] interacts with 3 human partners:{Q15173;P67775;P05121}

14886 Pathogen[ P03363] interacts with 3 human partners:{Q15173;P63279;P67775}

14887 [Cluster 1354]GO:0006461+P biological\_process [name] protein complex assembly [def] "The aggregation, arrangement and bonding together of a set of components to form a protein complex." [GOC

14888 Pathogen[ Q2Q067] interacts with 52 human

partners:{P30153;Q9Y3C7;Q99747;Q9BYG5;O43447;O43516;P30793;Q01664;Q13111;Q5TC12;Q13077;Q12933;Q9BWW4;O60356;O00401;O14910;Q92558;Q00597;P14635;O75381;O95163;O60711;Q13112;O43264;P78352;P51948;Q15370;Q96S59;P50748;O75496;Q9BSJ2;Q02410;P07814;Q8TEQ6;O00505;Q15599;O75030;P61244;Q9Y697;P42768;P40121;P17096;Q92793;Q9UGJ1;Q92845;Q9Y375;P30047;Q00987;Q9UQR1;O15360;P14868;Q8NFBH8}

14889 Pathogen[ P0C214] interacts with 54 human

partners:{P55822;Q9BWW4;O14910;P32243;Q00597;P61244;Q9BSJ2;Q99747;O43264;P30153;Q00987;Q13112;P40121;P07814;O75496;Q15599;Q13111;P50748;Q92793;Q9Y375;P17096;O75381;P14635;Q15370;O75030;P14868;Q9UGJ1;P78352;Q9Y3C7;O43516;P30793;P51948;Q9Y697;Q8TEQ6;Q96S59;Q12933;O60356;O60711;O15360;Q5TC12;O00505;Q92845;Q92558;O43447;Q9BYG5;Q02410;O00401;Q8NFBH8;P30047;P42768;Q9UQR1;Q9BYG3;Q01664;O95163}

14890 Pathogen[ P03346] interacts with 60 human

partners:{Q13077;Q15370;Q9UQR1;O43447;Q8NFBH8;O43516;P42768;P78352;P07814;O15360;Q9BW T7;O43264;O95163;Q9NZW5;O00505;Q9Y697;Q9Y5K6;O75030;P17096;Q02410;Q00987;Q8TEW0;P30047;P30153;Q5TC12;Q9BWW4;Q15599;Q9Y3C7;Q96S59;P14635;P55822;Q9BYG5;P40121;Q92558;Q9UGJ1;Q13111;Q8TEQ6;Q9Y375;P14868;Q9BYG3;Q13492;P61244;P50748;O15151;Q00597;O60356;Q9BSJ2;Q92845;Q92793;Q13112;O00401;P32243;O60711;Q01664;P51948;Q15393;O14910;Q99747;O75496}

14891 Pathogen[ Q85601] interacts with 56 human

partners:{Q9UQR1;O00401;O75496;Q15370;P17096;P14868;O14910;Q92558;Q9Y5K6;O15151;Q9BYG5;Q13112;P07814;O75030;Q9Y697;O43264;P30153;Q9Y3C7;P51948;Q00597;P30793;P30047;Q5TC12;O43516;Q9BSJ2;O60711;Q9Y375;Q8TEQ6;Q96S59;Q9UGJ1;P14635;Q12933;P40121;P42768;Q8NF

- 14892 H8;Q9BWW4;P55822;P78352;P32243;O15360;P61244;P50748;O43447;Q92845;Q13077;O60356;Q02410;Q13111;Q92793;O00505;O75381;O95163;Q00987;Q01664;Q15599;Q99747}  
Pathogen[ P14079] interacts with 64 human partners: {O43292;Q9UQR1;Q13492;O43516;O43447;P09327;Q8TEQ6;Q9Y375;Q9BYG5;Q92558;Q92793;Q02410;Q9UGJ1;P17096;Q00597;Q9Y3C7;O95163;Q15070;P14868;Q13112;Q13111;Q99747;Q5TC12;O60711;P30793;Q13077;P40121;P55822;Q00987;Q8TEW0;P14635;Q9BWW4;Q8NMFH8;Q15599;Q9Y697;Q15370;Q01664;O43264;Q9BSJ2;O00505;P32243;Q9Y5K6;Q12933;Q9BYG3;O75381;Q16625;O60356;P30153;Q92845;P50748;Q96S59;O75030;O15151;Q9UPY6;P61244;O15273;Q9NZW5;O15360;O75496;P07814;P30047;P42768;O00401;P51948}
- 14893 Pathogen[ P03383] interacts with 47 human partners: {Q9UQR1;Q5TC12;Q8NMFH8;Q9BSJ2;O95163;P17096;P14868;P32243;P51948;O43264;Q9BWW4;O75030;P30153;O00505;P14635;Q92558;Q9Y697;Q01664;O43447;O43516;O00401;Q99747;Q13111;Q9Y3C7;Q8TEQ6;Q96S59;Q12933;Q9BYG5;O60711;O75381;P42768;P07814;Q9Y375;Q00597;O15360;Q15370;Q02410;Q92845;P61244;P30047;P78352;Q13112;O14910;Q92793;O75496;P50748;O60356}
- 14894 Pathogen[ P03410] interacts with 66 human partners: {O60711;P30047;Q5TC12;O14910;Q9UPY6;O00505;P55822;O15151;Q9BWW4;Q13077;Q96S59;O43516;Q15393;Q8NMFH8;O75030;Q8TEQ6;Q92558;Q9NZW5;Q92845;O00401;P50748;P17096;P42768;Q15370;O75381;Q9Y697;P14868;P30793;Q9Y3C7;Q02410;P61244;O15273;O43264;Q9Y5K6;Q9UQR1;Q15599;Q13492;Q92793;P14635;Q00597;O95163;Q9BYG3;Q13111;Q13112;O60356;Q12933;Q9Y375;Q9BSJ2;O15360;Q16625;P51948;P32243;P30153;Q01664;O75496;Q8TEW0;P07814;Q00987;Q15070;Q9BWT7;P78352;P40121;O43447;Q99747;Q9UGJ1;Q9BYG5}
- 14895 Pathogen[ P14075] interacts with 50 human partners: {Q8TEQ6;Q02410;Q9Y375;O15360;O75030;Q9UQR1;Q9BWW4;Q92845;P14635;P61244;P42768;P17096;Q99747;Q15070;Q13111;O75381;O00505;O43516;P55822;O00401;Q9Y3C7;Q96S59;Q15370;Q01664;Q12933;O14910;P30047;P14868;O60356;Q5TC12;P30153;Q95163;O43447;Q92793;P50748;P78352;O60711;Q9BYG5;Q92558;P30793;O43264;O75496;Q00597;Q13112;Q9BSJ2;P32243;Q8NMFH8;P07814;P51948;Q9Y697}
- 14896 Pathogen[ P0C206] interacts with 60 human partners: {Q13112;P07814;P78352;O15360;Q13077;Q9BYG3;O75496;Q92845;P30153;O43516;P40121;O75030;O75381;Q13111;Q8TEQ6;Q9Y697;O00505;Q9BYG5;Q9Y3C7;Q12933;P30793;Q9UGJ1;Q92793;O95163;P30047;O60356;Q8NMFH8;Q8TEW0;Q15599;O15151;Q15070;P32243;Q9BWW4;Q9UQR1;Q9BWT7;Q92558;Q15370;O00401;Q9Y375;O14910;P61244;O43447;P17096;Q99747;Q01664;Q9Y5K6;Q00597;P14635;Q96S59;Q00987;P42768;O60711;Q5TC12;P50748;O43264;Q9BSJ2;P14868;P55822;P51948;Q02410}
- 14897 Pathogen[ P03363] interacts with 56 human partners: {Q13112;Q92845;Q15370;O15360;O60356;Q00597;Q9UPY6;Q9Y375;P14868;Q15393;Q13111;Q9NZW5;O14910;O00505;P78352;Q12933;O43264;P42768;O15151;P50748;P32243;Q92558;Q9Y697;Q8NMFH8;O43447;P61244;O75030;Q13077;P17096;Q9BWT7;Q02410;O75381;O95163;Q5TC12;Q9BYG5;Q92793;Q9BYG3;O75496;Q9UQR1;O00401;O15599;Q9UGJ1;O43516;Q8TEQ6;Q9BWW4;P30047;Q96S59;P07814;P30153;P40121;Q9Y5K6;Q01664;Q99747;Q9BSJ2;O60711;Q9Y3C7}
- 14898 [Cluster 1355]GO:0032008+P biological\_process [name] positive regulation of TOR signaling cascade [def] "Any process that activates or increases the frequency, rate or extent of signaling via the TOR signaling pathway." [GOC
- 14899 Pathogen[ Q2Q067] interacts with 4 human partners: {Q9BVC4;Q9H4A6;O43504;Q6R327}
- 14900 Pathogen[ P0C214] interacts with 4 human partners: {Q9BVC4;Q9H4A6;Q6R327;O43504}
- 14901 Pathogen[ P03346] interacts with 4 human partners: {Q9BVC4;Q9H4A6;O43504;Q6R327}
- 14902 Pathogen[ Q85601] interacts with 2 human partners: {Q9BVC4;Q9H4A6}
- 14903 Pathogen[ P14079] interacts with 8 human partners: {Q6R327;Q9Y2Q5;Q9UHA4;Q9BVC4;Q0VGL1;Q6IAA8;O43504;Q9H4A6}
- 14904 Pathogen[ P03383] interacts with 2 human partners: {Q9H4A6;O43504}
- 14905 Pathogen[ P03410] interacts with 8 human partners: {Q9Y2Q5;O43504;Q9BVC4;Q9H4A6;Q9UHA4;Q6R327;Q6IAA8;Q0VGL1}
- 14906 Pathogen[ P14075] interacts with 3 human partners: {Q6R327;O43504;Q9H4A6}
- 14907 Pathogen[ P0C206] interacts with 5 human partners: {Q9H4A6;Q9UHA4;O43504;Q6R327;Q9BVC4}
- 14908 Pathogen[ P03363] interacts with 4 human partners: {Q9BVC4;Q9H4A6;O43504;Q6R327}
- 14909 [Cluster 1356]GO:0007269+P biological\_process [name] neurotransmitter secretion [def] "The regulated release of neurotransmitter into the synaptic cleft. A neurotransmitter is any of a group of substances that are released on excitation from the axon terminal of a presynaptic neuron of the central or peripheral nervous system and travel across the synaptic cleft to either excite or inhibit the target cell. Among the many substances that have the properties of a neurotransmitter are acetylcholine, noradrenaline, adrenaline, dopamine, glycine, gamma-aminobutyrate, glutamic acid, substance P, enkephalins, endorphins and serotonin." [CHEBI
- 14910 Pathogen[ Q2Q067] interacts with 8 human partners: {O75145;O95295;O14910;P63010;P11142;Q9UI32;O94925;Q9NUP9}
- 14911 Pathogen[ P0C214] interacts with 7 human partners: {O14910;O95295;Q9UI32;P63010;O75145;O94925;P11142}
- 14912 Pathogen[ P03346] interacts with 9 human partners: {P63010;O95295;P11142;Q9UI32;Q9NUP9;Q9HAP6;O94925;O75145;O14910}
- 14913 Pathogen[ Q85601] interacts with 8 human partners: {O75145;O94925;Q9NUP9;O14910;O95295;P11142;P63010;Q9UI32}
- 14914 Pathogen[ P14079] interacts with 9 human partners: {O14810;P11142;Q9NUP9;O94925;O75145;Q9HAP6;P63010;Q9UI32;O95295}
- 14915 Pathogen[ P03383] interacts with 6 human

14916 partners:{O94925;O95295;P63010;P11142;O75145;O14910}  
Pathogen[ P03410] interacts with 10 human

14917 partners:{O14910;O14810;P11142;Q9NUP9;O94925;Q9HAP6;O95295;O75145;P63010;Q9UI32}  
Pathogen[ P14075] interacts with 6 human

14918 partners:{P11142;O95295;O14910;O75145;P63010;O94925}  
Pathogen[ P0C206] interacts with 8 human

14919 partners:{P63010;Q9NUP9;O75145;O14910;O95295;Q9UI32;O94925;P11142}  
Pathogen[ P03363] interacts with 8 human

14920 partners:{O14910;O94925;O75145;P63010;O95295;Q9UI32;Q9NUP9;P11142}  
[Cluster 1357]GO:0051168+P biological\_process [name] nuclear export [def] "The directed movement of substances out of the nucleus." [GOC

14921 Pathogen[ Q2Q067] interacts with 4 human partners:{O60524;Q9UDY8;Q96K30;P54253}  
14922 Pathogen[ P0C214] interacts with 5 human  
partners:{P54253;Q9UDY8;O60524;Q9H089;Q96K30}

14923 Pathogen[ P03346] interacts with 5 human  
partners:{P09651;Q9UDY8;Q96K30;P54253;O60524}

14924 Pathogen[ Q85601] interacts with 5 human  
partners:{Q9UDY8;Q9H089;P54253;O60524;Q96K30}

14925 Pathogen[ P14079] interacts with 4 human partners:{Q96K30;O60524;P54253;Q9H089}  
14926 Pathogen[ P03383] interacts with 3 human partners:{Q96K30;P54253;O60524}  
14927 Pathogen[ P03410] interacts with 4 human partners:{Q96K30;O60524;Q9H089;P54253}  
14928 Pathogen[ P14075] interacts with 3 human partners:{P54253;Q96K30;O60524}  
14929 Pathogen[ P0C206] interacts with 5 human  
partners:{Q9UDY8;Q96K30;O60524;Q9H089;P54253}

14930 Pathogen[ P03363] interacts with 4 human partners:{P09651;Q96K30;P54253;O60524}

14931 [Cluster 1358]GO:0045603+P biological\_process [name] positive regulation of endothelial cell differentiation [def] "Any process that activates or increases the frequency, rate or extent of endothelial cell differentiation." [GOC

14932 Pathogen[ Q2Q067] interacts with 2 human partners:{P62324;O00321}  
14933 Pathogen[ P0C214] interacts with 3 human partners:{O00321;P62324;P18054}  
14934 Pathogen[ P03346] interacts with 3 human partners:{P18054;O00321;P62324}  
14935 Pathogen[ Q85601] interacts with 2 human partners:{P62324;O00321}  
14936 Pathogen[ P14079] interacts with 2 human partners:{P62324;O00321}  
14937 Pathogen[ P03383] interacts with 2 human partners:{P62324;O00321}  
14938 Pathogen[ P03410] interacts with 2 human partners:{O00321;P62324}  
14939 Pathogen[ P14075] interacts with 2 human partners:{P62324;O00321}  
14940 Pathogen[ P0C206] interacts with 2 human partners:{P62324;O00321}  
14941 Pathogen[ P03363] interacts with 2 human partners:{O00321;P62324}

14942 [Cluster 1359]GO:0042791+P biological\_process [name] 5S class rRNA transcription from RNA polymerase III type 1 promoter [def] "The synthesis of 5S ribosomal RNA (rRNA), or an equivalent rRNA, from a DNA template by RNA polymerase III (Pol III), originating at a type 1 RNA polymerase III promoter." [GOC

14943 Pathogen[ Q2Q067] interacts with 4 human partners:{Q9Y5Q8;Q9UKN8;Q12789;Q969F1}  
14944 Pathogen[ P0C214] interacts with 4 human partners:{Q9Y5Q8;Q9UKN8;Q12789;Q969F1}  
14945 Pathogen[ P03346] interacts with 6 human  
partners:{Q9Y5Q8;Q9UKN8;Q8WUA4;Q9Y5Q9;Q969F1;Q12789}

14946 Pathogen[ Q85601] interacts with 4 human partners:{Q9UKN8;Q9Y5Q8;Q12789;Q969F1}  
14947 Pathogen[ P14079] interacts with 6 human  
partners:{Q9UKN8;Q9Y5Q9;Q969F1;Q9Y5Q8;Q12789;Q8WUA4}

14948 Pathogen[ P03383] interacts with 4 human partners:{Q9UKN8;Q969F1;Q9Y5Q8;Q12789}  
14949 Pathogen[ P03410] interacts with 6 human  
partners:{Q9Y5Q9;Q969F1;Q9Y5Q8;Q12789;Q8WUA4;Q9UKN8}

14950 Pathogen[ P14075] interacts with 4 human partners:{Q969F1;Q12789;Q9Y5Q8;Q9UKN8}  
14951 Pathogen[ P0C206] interacts with 6 human  
partners:{Q969F1;Q8WUA4;Q9Y5Q9;Q9Y5Q8;Q9UKN8;Q12789}

14952 Pathogen[ P03363] interacts with 6 human  
partners:{Q969F1;Q8WUA4;Q9Y5Q9;Q12789;Q9UKN8;Q9Y5Q8}

14953 [Cluster 1360]GO:0008652+P biological\_process [name] cellular amino acid biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of amino acids, organic acids containing one or more amino substituents." [ISBN

14954 Pathogen[ Q2Q067] interacts with 6 human  
partners:{Q96GX9;Q9BV57;Q9BV20;Q9UI32;O94925;P32929}

14955 Pathogen[ P0C214] interacts with 16 human  
partners:{Q9Y617;P00480;Q9BV57;Q96GX9;Q9UI32;P32929;O15382;Q9UHY7;P54687;O94925;P04424;P35520;Q8N159;P11586;Q9BV20;Q16773}

14956 Pathogen[ P03346] interacts with 8 human  
partners:{Q9UBK8;Q9BV20;Q9BV57;Q9UI32;P32929;Q9UHY7;O94925;Q96GX9}

14957 Pathogen[ Q85601] interacts with 9 human  
partners:{O94925;P00480;Q96GX9;Q9BV57;Q9UHY7;Q9BV20;Q9UI32;O15382;P32929}

14958 Pathogen[ P14079] interacts with 11 human  
partners:{Q8N159;Q9Y617;Q9BV20;O94925;Q96GX9;P32929;Q9UI32;P00480;P04424;O15382;Q9BV57}

14959 Pathogen[ P03383] interacts with 5 human  
partners:{O94925;Q9BV57;Q96GX9;Q8N159;Q9BV20}

14960 Pathogen[ P03410] interacts with 11 human  
partners:{Q8N159;P32929;P04424;Q9Y617;O94925;Q9BV20;P00480;O15382;Q96GX9;Q9UI32;Q9BV

57}

14961 Pathogen[ P14075] interacts with 5 human  
partners: {Q96GX9;Q9BV57;Q9BV20;Q8N159;O94925}

14962 Pathogen[ POC206] interacts with 10 human  
partners: {Q9BV20;O15382;Q8N159;Q9UHY7;P32929;Q9BV57;Q9UI32;Q96GX9;O94925;P00480}

14963 Pathogen[ P03363] interacts with 5 human  
partners: {O94925;Q9BV57;Q9UI32;Q9BV20;Q96GX9}

14964 [Cluster 1361]GO:0030049+P biological\_process [name] muscle filament sliding [def] "The sliding of actin thin filaments and myosin thick filaments past each other in muscle contraction. This involves a process of interaction of myosin located on a thick filament with actin located on a thin filament. During this process ATP is split and forces are generated." [GOC

14965 Pathogen[ Q2Q067] interacts with 7 human  
partners: {Q9UKX2;P60660;P11532;P48788;P12883;P08670;P17661}

14966 Pathogen[ POC214] interacts with 14 human  
partners: {P48788;P68133;Q9UKX2;P11055;P14649;P60660;P11532;P13535;P08670;P19429;P12883;P13533;Q9Y623;P17661}

14967 Pathogen[ P03346] interacts with 10 human  
partners: {P60660;P28289;P14649;P17661;P63316;P08670;Q9UKX2;P11532;P10916;P48788}

14968 Pathogen[ Q85601] interacts with 13 human  
partners: {P68133;P17661;P13533;P08670;P14649;P11532;Q9UKX2;P48788;P11055;P12883;P13535;P60660;Q9Y623}

14969 Pathogen[ P14079] interacts with 17 human  
partners: {P13805;P19429;P11532;P07951;P10916;P19237;Q9UKX2;P14649;P68032;P28289;P60660;P48788;P12883;P08670;P17661;O15273;P68133}

14970 Pathogen[ P03383] interacts with 6 human  
partners: {P08670;P17661;Q9UKX2;P11532;P48788;P12883}

14971 Pathogen[ P03410] interacts with 18 human  
partners: {Q9UKX2;P10916;P17661;P19429;P11532;P28289;O15273;P07951;P12883;P68133;P48788;P08670;P14649;P63316;P13533;P13805;P60660;P13535}

14972 Pathogen[ P14075] interacts with 5 human  
partners: {P11532;Q9UKX2;P17661;P08670;P48788}

14973 Pathogen[ POC206] interacts with 14 human  
partners: {P17661;P13533;Q9Y623;P19429;P60660;P11055;P14649;P68133;P12883;Q9UKX2;P08670;P11532;P48788;P13535}

14974 Pathogen[ P03363] interacts with 11 human  
partners: {P14649;Q9UKX2;P68133;P48788;P11532;P08670;P17661;P28289;P60660;P19429;P10916}

14975 [Cluster 1362]GO:0008283+P biological\_process [name] cell proliferation [def] "The multiplication or reproduction of cells, resulting in the expansion of a cell population." [GOC

14976 Pathogen[ Q2Q067] interacts with 113 human  
partners: {P49454;Q13118;Q9H2G9;P31749;Q93034;O14744;Q9BVP2;A0AVK6;O75474;Q9Y266;Q15398;Q9UQ80;Q5VTD9;Q9GZL7;Q14160;Q9UMX3;P49959;Q01094;P40763;P62750;Q9Y3E1;Q16666;P46937;Q13485;P08779;P61024;Q15326;Q96T88;P37275;O75081;Q9HD15;O75896;Q9UKY7;Q05195;P14373;P17483;P14316;P56945;Q9UJT9;Q9UNH5;P40222;O95359;O00541;P11308;Q8NEU8;P30304;Q9UKW6;Q14765;Q06830;Q12972;Q14137;P12004;Q99966;Q9Y3A5;P30307;P20073;Q14186;P51948;Q13561;Q07666;O60934;O60832;P12755;Q9UKZ1;P56277;Q8N3C0;P55060;Q15468;P50750;O43598;Q13616;Q96Q83;P50613;A6NCL1;Q15742;Q92830;Q9NTI5;Q9BRX2;P10599;Q9ULW0;O75312;Q9H4A6;Q13309;Q15819;P61201;P33552;Q9UKN5;O75410;Q8N9Z9;Q9UI43;P46013;P47974;P47928;Q96PU4;Q5T2W1;Q92793;P68036;P13010;P49321;P42677;Q9UKG1;Q16576;P30260;Q9BZG8;Q13042;Q15691;Q66K89;Q01534;Q6RFH8;Q9UI36;Q9NYV6;Q9BXP5;Q9Y242}

14977 Pathogen[ POC214] interacts with 117 human  
partners: {Q9UKW6;Q9Y3E1;Q15742;Q9UKN5;A6NCL1;Q05195;P11308;P30307;A0AVK6;Q9H4A6;O75896;P55060;P23919;P49959;P56945;P13010;Q92934;P50750;Q9HD15;P50613;Q13309;Q14765;O00541;Q9BRX2;Q92793;P61024;Q9GZL7;P46937;P61201;Q96PU4;P37275;Q16666;Q93034;Q15691;Q9UKG1;Q9Y266;Q96T88;P55789;Q5VTD9;P08779;Q01534;Q06830;O95359;Q5T2W1;Q8N3C0;P50747;O75312;Q99966;Q01094;Q15819;P35580;Q14186;P21127;Q16881;P47928;P51948;Q07666;O95071;P56277;Q6RFH8;Q14137;Q15398;Q13485;Q8NEU8;Q16658;Q9Y242;Q9ULW0;Q15468;Q9UMX3;Q9H2G9;P49321;Q9UI43;Q16576;O43598;Q9NYV6;Q9UNH5;Q13616;P12755;Q14160;Q9UI36;Q8N9Z9;P54687;O60832;O75410;P42677;O75474;Q92830;P10599;Q9UKZ1;Q9UKY7;P46013;P40763;Q12972;Q9BZG8;Q9UQ80;P14373;P62750;P30260;P49454;Q9Y3A5;Q15326;P40222;Q96Q83;P20073;Q9NTI5;P30304;P33552;Q13561;Q9UJT9;Q66K89;P14316;O75081;P31749;Q9BXP5;P47974;Q9BVP2;Q13042}

14978 Pathogen[ P03346] interacts with 135 human  
partners: {Q9NPC8;P12004;P15863;P46937;Q01534;Q16666;Q9H2G9;Q99966;Q5T2W1;Q9UKY7;P68036;P14373;P08779;Q13616;O43598;P20073;O00541;Q9UJT9;Q9UQ80;P21127;Q9UKZ1;O75312;O75410;P07992;Q15691;Q9H4A6;P14316;Q9HD15;Q96FS4;Q9GZL7;P30304;O95359;O75474;O14744;P13010;Q9NQ69;P52951;O60832;P61024;P55060;P17483;P49321;Q01094;Q66K89;O75896;Q93034;P78426;Q8N3C0;Q9BXP5;Q15555;Q9Y266;Q14186;Q07666;Q92830;Q15742;P11308;Q9ULW0;Q9C0J9;Q8N960;P56945;Q15398;Q8NEU8;P31749;Q8N9Z9;Q13042;Q13309;Q13118;P51587;Q9Y242;P42566;O60447;P47974;Q9NZC4;P50750;P33552;A6NCL1;Q9NTI5;P37275;Q16576;Q12929;P49959;Q05195;Q5VTD9;Q96Q83;Q9Y3E1;O60934;Q06830;Q9BNF2;P61201;P42677;P62750;O15151;Q15326;Q9NYV6;Q9UKG1;P51858;Q14137;P10599;Q16658;P56178;Q13485;Q96PU4;P46013;Q14160;Q9UMX3;Q9BZG8;Q6RFH8;Q92793;Q9UKW6;Q9Y6Q3;Q14765;O95071;Q9UI36;Q9H9S0;P30260;P40222;Q9UI43;A0AVK6;P40763;Q15468;Q9BRX2;Q9UKN5;Q12972;P51948;P56277;O75081;Q96T88;Q9UNH5;P30307;P49454;Q9BVP2;Q9Y3A5;P47928;Q13561;Q15819}

- 14979 Pathogen[ Q85601] interacts with 119 human  
partners: {P49454;O43598;Q16666;Q13309;P14373;P31749;O00541;P14316;Q5T2W1;Q14765;Q07666;P08779;Q15398;Q9UQ80;P50750;O15151;Q9UKZ1;O75312;Q8NEU8;Q99966;Q9UKN5;P40763;Q05195;P61201;Q01534;Q9Y242;Q96PU4;Q9Y3A5;Q13616;Q9Y3E1;P47974;P49959;P30304;Q9UMX3;P51948;P61024;Q9ULW0;Q15742;P49321;O14744;Q9NTI5;P68036;O75474;P12755;P56277;Q9UNH5;Q9Y266;Q10599;Q14186;Q92830;Q15555;P30307;Q9Y6Q3;P61201;Q01534;Q8NEU8;P40222;Q14186;Q13118;P68036;O95359;Q13309;A6NCL1;Q92830;O75312;Q9Y6A5;O75896;P47974;Q16658;P13010;Q15819;O60832;Q92793;Q9BWF2;Q9UKZ1;Q9GZL7;P42566;Q15742;O43598;P51587;Q99966;Q9Y266;P56278;Q9ULW0;Q9Y3A5;P46937;O60934;Q14765;P30304;Q16576;P11308;Q8N960;Q9NTI5;Q15078;P33552;Q9H2G9;Q9Y3E1;P50613;Q9NZC4;O14744;Q99661;P23919;O15172;Q5VTD9;Q6RFH8;Q9NX09;P56277;Q92934;P62750;Q07666;Q13042;Q15555;Q93034;Q66K89;P55060;Q9HD15;Q15468;P55789;Q13561;Q9UMX3;Q9UI36;P21127;Q5T2W1;Q12972;Q9BZG8;Q5W0Q7;O75081;Q05195;P42677;Q96AZ6;P30260;P20073;Q9UKY7;P10599;O75410;O00541;P49454;Q14137;P12004;P49321;Q8N9Z9;Q9UJT9;Q9UKN5;A0AVK6;Q13616;Q9BXP5;O75474;Q9UQ80;Q96Q83;O15151;Q9H4A6;Q01094;P14316;Q9UKW6;Q15326;P47928;P07992;P37275;Q9UNH5;P49917;Q16666;P50750;P46013;Q15398;O15503;P61024;P51948}
- 14980 Pathogen[ P14079] interacts with 129 human  
partners: {Q15691;Q9BQ08;Q12929;Q9BRX2;P15502;Q13442;P12755;P14373;Q9UKG1;Q9BVP2;Q9NYV6;P08779;Q9UI43;P30307;Q9Y6Q3;P61201;Q01534;Q8NEU8;P40222;Q14186;Q13118;P68036;O95359;Q13309;A6NCL1;Q92830;O75312;Q9Y6A5;O75896;P47974;Q16658;P13010;Q15819;O60832;Q92793;Q9BWF2;Q9UKZ1;Q9GZL7;P42566;Q15742;O43598;P51587;Q99966;Q9Y266;P56278;Q9ULW0;Q9Y3A5;P46937;O60934;Q14765;P30304;Q16576;P11308;Q8N960;Q9NTI5;Q15078;P33552;Q9H2G9;Q9Y3E1;P50613;Q9NZC4;O14744;Q99661;P23919;O15172;Q5VTD9;Q6RFH8;Q9NX09;P56277;Q92934;P62750;Q07666;Q13042;Q15555;Q93034;Q66K89;P55060;Q9HD15;Q15468;P55789;Q13561;Q9UMX3;Q9UI36;P21127;Q5T2W1;Q12972;Q9BZG8;Q5W0Q7;O75081;Q05195;P42677;Q96AZ6;P30260;P20073;Q9UKY7;P10599;O75410;O00541;P49454;Q14137;P12004;P49321;Q8N9Z9;Q9UJT9;Q9UKN5;A0AVK6;Q13616;Q9BXP5;O75474;Q9UQ80;Q96Q83;O15151;Q9H4A6;Q01094;P14316;Q9UKW6;Q15326;P47928;P07992;P37275;Q9UNH5;P49917;Q16666;P50750;P46013;Q15398;O15503;P61024;P51948}
- 14981 Pathogen[ P03383] interacts with 94 human  
partners: {P30307;Q13616;P49454;P56945;P14316;P61024;Q13485;Q9NYV6;P13010;Q14160;Q15691;P56277;P51948;O75896;P62750;Q01094;Q5T2W1;O00541;Q9UKW6;P31749;Q93034;O75410;Q8NEU8;P46013;Q12972;P30304;P61201;O75474;Q9UMX3;P42677;P37275;Q96PU4;Q6RFH8;Q15742;Q15468;Q9H2G9;O43598;Q9BRX2;P10599;Q9UI43;P49321;Q13042;O14744;Q66K89;P21127;P33552;P08779;Q15326;Q14186;P55060;O75081;P11308;Q9HD15;P50613;Q15819;Q05195;Q92830;Q9UNH5;P50750;Q9UKN5;P40222;Q16666;Q07666;Q9UKY7;Q9Y266;Q9Y3A5;Q9H4A6;P35580;Q9UQ80;P68036;Q13309;Q9GZL7;Q9UKZ1;Q9BXP5;Q01534;Q9ULW0;Q96Q83;Q13561;P47928;Q9NTI5;Q9UI36;P30260;Q8N9Z9;Q14137;P20073;P46937;Q9BVP2;O60832;O75312;A0AVK6;P15502;Q16576;Q92793;Q9BZG8}
- 14982 Pathogen[ P03410] interacts with 132 human  
partners: {Q92830;P49321;Q9UI36;P49959;Q8N960;Q9H2G9;P10599;Q16666;O95359;O15172;Q16658;Q8N3C0;P37275;Q13561;O15151;Q5T2W1;P12755;Q15398;Q66K89;P07992;Q9BXP5;P55060;Q9Y6Q3;P46013;Q9UQ80;O75474;Q15468;Q01534;Q14765;P31749;Q92934;O60832;Q9Y6A5;Q96Q83;Q14137;Q9UNH5;P68036;Q9GZL7;Q14160;Q9H4A6;P50613;P56278;Q15819;Q9UKW6;Q07666;P23919;P62750;Q16576;Q9BWF2;P49454;P08779;Q6RFH8;P50750;Q9NYV6;Q92793;P33552;P15502;Q15555;Q15691;Q13042;Q8N9Z9;Q13309;Q9UKN5;P30304;Q9UKZ1;Q9BXP5;P51587;Q9BZG8;Q9BRX2;Q9UI36;P47928;Q13485;Q14186;O60447;P47974;P46937;Q13118;O75410;Q9UKY7;P30260;P61201;P51948;Q9Y3E1;Q15742;P35580;Q9BVP2;Q13616;P20073;Q9UI43;Q9ULW0;O75081;P56945;Q01094;Q9BZG8;O00541;P13010;P61024;Q12972;Q8NEU8;Q9Y266;P56277;O14744;P14316;P40222;Q9HD15;Q9UJT9;P11308;P55789;Q5VTD9;O15503;Q9Y3A5;P12004;P40763;Q9NX09;P42566;Q93034;O75896;P30307;Q12929;Q9UKG1;O75312;Q06830;Q13442;O60934;O43598;A6NCL1;A0AVK6;Q05195;Q9BQ08;P42677;Q99966}
- 14983 Pathogen[ P14075] interacts with 95 human  
partners: {P49321;Q16576;Q15819;Q9H2G9;Q6RFH8;P42677;Q9Y266;Q13042;P68036;Q93034;Q9UMX3;P61024;Q9NYV6;Q14160;O75410;Q9UKZ1;Q96Q83;P40222;Q07666;O43598;Q9UKN5;P50613;Q9GZL7;Q9BRX2;P61201;Q13561;O00541;Q96PU4;Q13442;O75312;P50750;P47928;Q9BZG8;Q8NEU8;P62750;Q16666;P20073;Q05195;Q9UI43;O75081;Q13485;Q14186;Q9ULW0;P31749;Q15326;O14744;P08779;Q15691;O75474;P11308;Q13309;P21127;Q01534;Q01094;P15502;P30304;P55789;O60832;P14316;Q15742;Q5T2W1;Q9UQ80;O75896;Q66K89;Q9UKY7;Q92793;Q9UKW6;Q9UI36;Q14137;Q15468;P46937;Q9BXP5;P56277;P13010;Q12972;P37275;Q13616;P30260;Q9NTI5;P49454;Q92830;Q9UNH5;P46013;Q9H4A6;P30307;Q8N9Z9;P55060;A0AVK6;Q9HD15;P33552;P56945;Q9BVP2;P51948;P10599;Q9Y3A5}
- 14984 Pathogen[ P0C206] interacts with 136 human  
partners: {O43598;P46937;Q9UJT9;Q9Y3E1;Q15468;Q9UKG1;Q96Q83;Q05195;O95359;P13010;O15172;Q9H4A6;Q92830;P08779;P61024;Q9UI43;P55789;P31749;P49959;Q9Y6Q3;P56278;Q9Y242;P50750;P30307;O75474;Q13309;Q14137;Q9BVP2;Q8NEU8;P68036;Q9ULW0;P15502;O14744;P51587;A6NCL1;P62750;Q9GZL7;O60934;Q15691;Q9UMX3;O75081;P46013;Q9C0J9;P56277;Q16666;P61201;Q14186;P17483;P49454;P49321;O75896;Q07666;Q13616;Q9HD15;Q15326;P30260;Q5T2W1;P11308;P07992;P12755;Q92793;Q01534;Q92934;Q15742;O75410;O60447;O15151;P49917;Q9UNH5;P50613;Q16658;Q9UKN5;Q8N9Z9;Q9Y6A5;Q6RFH8;Q14160;Q96T88;Q01094;A0AVK6;P40222;Q15819;Q9BZG8;O60832;P40763;Q13485;Q9UKZ1;Q9NTI5;Q9BXP5;O00541;Q13561;P55060;Q9H2G9;P33552;P30304;P42566;Q99966;Q9UKW6;Q9Y3A5;P37275;Q16576;Q5VTD9;Q9BWF2;P56945;Q9H9S0;P21127;Q14765;Q15555;Q9UQ80;Q93034;Q12972;Q9NZC4;P14373;P10599;Q13118;Q66K89;Q06830;Q13042;P47928;Q15398;P35580;Q9UI36;P20073;Q9NYV6;O95071;O75312;Q9BRX2;Q9Y266;P14316;Q8N960;P47974;Q9UKY7;Q96PU4;Q8N3C0;P42677;P51948;P12004}
- 14985 Pathogen[ P03363] interacts with 118 human  
partners: {O60832;O75410;Q5VTD9;P51858;O14744;Q9Y3E1;Q8N9Z9;P08779;Q13309;O75081;Q13042;Q9BXP5;P49454;Q14765;P62750;Q07666;P42677;Q9BWF2;Q9GZL7;Q9UNH5;O75474;Q15468;Q12972;P49321;P21127;P14373;Q9UJT9;P33552;Q9UKN5;P61201;P13010;Q9UKW6;Q13561;Q9HD15;P37275;Q9Y266;Q15691;Q14160;Q9ULW0;O60447;Q15398;Q9Y3A5;Q9C0J9;Q66K89;O15151;Q9UKZ1;O75312;Q9H4A6;P30260;P17483;Q9UQ80;P40222;P20073;Q16666;P30304;Q8NEU8;Q15326;Q96Q83;P46937;Q16576;Q9UI36;Q13616;P11308;Q9NZC4;Q9NYV6;Q13480;P31749;Q92830;P14316;Q01094;P610

24;Q9Y6Q3;A0AVK6;A6NCL1;P47928;Q12929;Q15742;Q14137;O95071;Q6RFH8;Q92793;Q9H2G9;Q01534;P56945;Q13485;Q05195;P52951;P50750;Q14186;Q96T88;Q9BVP2;Q9NTI5;Q9BRX2;O95359;P47974;Q9UKY7;Q93034;Q9BZG8;P46013;P55060;Q96PU4;P30307;Q9UI43;Q9H9S0;Q16658;O00541;Q5T2W1;O43598;Q9UMX3;Q9NPC8;Q9UKG1;Q96FS4;Q15555;Q8N3C0;P68036;Q13118;Q8N960;Q15819}

14986 [Cluster 1363]GO:0051658+P biological\_process [name] maintenance of nucleus location [def] "Any process in which the nucleus is maintained in a specific location within a cell and prevented from moving elsewhere." [GOC

14987 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9ULV3}

14988 Pathogen[ P0C214] interacts with 1 human partners:{Q9ULV3}

14989 Pathogen[ P03346] interacts with 1 human partners:{Q9ULV3}

14990 Pathogen[ Q85601] interacts with 1 human partners:{Q9ULV3}

14991 Pathogen[ P14079] interacts with 1 human partners:{Q9ULV3}

14992 Pathogen[ P03383] interacts with 1 human partners:{Q9ULV3}

14993 Pathogen[ P03410] interacts with 1 human partners:{Q9ULV3}

14994 Pathogen[ P14075] interacts with 1 human partners:{Q9ULV3}

14995 Pathogen[ P0C206] interacts with 1 human partners:{Q9ULV3}

14996 Pathogen[ P03363] interacts with 1 human partners:{Q9ULV3}

14997 [Cluster 1364]GO:2001238+P biological\_process [name] positive regulation of extrinsic apoptotic signaling pathway [def] "Any process that activates or increases the frequency, rate or extent of extrinsic apoptotic signaling pathway." [GOC

14998 Pathogen[ Q2Q067] interacts with 4 human partners:{P55957;Q8WXF8;Q12933;Q13158}

14999 Pathogen[ P0C214] interacts with 4 human partners:{Q8WXF8;Q13158;P55957;Q12933}

15000 Pathogen[ P03346] interacts with 3 human partners:{Q13158;Q8WXF8;P55957}

15001 Pathogen[ Q85601] interacts with 5 human partners:{Q13158;Q12933;Q9NQC7;P55957;Q8WXF8}

15002 Pathogen[ P14079] interacts with 6 human partners:{Q9NP84;Q12933;Q13158;Q8WXF8;Q9NQC7;P55957}

15003 Pathogen[ P03383] interacts with 4 human partners:{P55957;Q13158;Q12933;Q8WXF8}

15004 Pathogen[ P03410] interacts with 5 human partners:{Q8WXF8;P55957;Q13158;Q12933;Q9NP84}

15005 Pathogen[ P14075] interacts with 4 human partners:{P55957;Q12933;Q13158;Q8WXF8}

15006 Pathogen[ P0C206] interacts with 5 human partners:{Q9NQC7;Q13158;Q12933;Q8WXF8;P55957}

15007 Pathogen[ P03363] interacts with 4 human partners:{P55957;Q12933;Q13158;Q8WXF8}

15008 [Cluster 1365]GO:0048873+P biological\_process [name] homeostasis of number of cells within a tissue [def] "Any biological process involved in the maintenance of the steady-state number of cells within a population of cells in a tissue." [GOC

15009 Pathogen[ Q2Q067] interacts with 4 human partners:{P27694;P07954;P23769;Q9P1Q0}

15010 Pathogen[ P0C214] interacts with 6 human partners:{P07954;P23769;Q9BXT5;Q9P1Q0;Q6Y7W6;P27694}

15011 Pathogen[ P03346] interacts with 7 human partners:{O75995;Q9BXT5;P27694;P23769;Q9P1Q0;P07954;Q9GZV8}

15012 Pathogen[ Q85601] interacts with 6 human partners:{Q9BXT5;P23769;Q6Y7W6;P27694;P07954;Q9P1Q0}

15013 Pathogen[ P14079] interacts with 9 human partners:{P07954;Q9BXT5;Q6Y7W6;Q9P1Q0;P35611;P13232;P27694;Q9GZV8;P23769}

15014 Pathogen[ P03383] interacts with 3 human partners:{P27694;P23769;Q9P1Q0}

15015 Pathogen[ P03410] interacts with 9 human partners:{Q9GZV8;P07954;Q9BXT5;Q9P1Q0;P23769;Q6Y7W6;P27694;P35611;P13232}

15016 Pathogen[ P14075] interacts with 4 human partners:{P23769;Q9BXT5;P27694;Q9P1Q0}

15017 Pathogen[ P0C206] interacts with 7 human partners:{Q9BXT5;Q9P1Q0;Q6Y7W6;P23769;P27694;Q9GZV8;P07954}

15018 Pathogen[ P03363] interacts with 3 human partners:{P27694;Q9P1Q0;Q9BXT5}

15019 [Cluster 1366]GO:0032312+P biological\_process [name] regulation of ARF GTPase activity [def] "Any process that modulates the activity of the GTPase ARF." [GOC

15020 Pathogen[ Q2Q067] interacts with 1 human partners:{P52594}

15021 Pathogen[ P0C214] interacts with 1 human partners:{P52594}

15022 Pathogen[ P03346] interacts with 1 human partners:{P52594}

15023 Pathogen[ Q85601] interacts with 4 human partners:{Q9NP61;P52594;Q8N6H7;Q8N6T3}

15024 Pathogen[ P14079] interacts with 1 human partners:{P52594}

15025 Pathogen[ P03383] interacts with 1 human partners:{P52594}

15026 Pathogen[ P03410] interacts with 2 human partners:{P52594;Q9NP61}

15027 Pathogen[ P14075] interacts with 1 human partners:{P52594}

15028 Pathogen[ P0C206] interacts with 4 human partners:{O95081;Q8N6T3;Q9NP61;Q8N6H7}

15029 Pathogen[ P03363] interacts with 1 human partners:{P52594}

15030 [Cluster 1367]GO:000060+P biological\_process [name] protein import into nucleus, translocation [def] "A protein transport process that contributes to protein import into the nucleus, and that results in the vectorial transfer of a cargo-carrier protein complex through the nuclear pore complex from the cytoplasmic side to the nucleoplasmic side of the nuclear envelope." [GOC

15031 Pathogen[ Q2Q067] interacts with 10 human partners:{Q14974;P31749;P41182;P20749;Q86XR8;Q92973;Q14181;Q8N0Z2;P25963;Q14397}

15032 Pathogen[ P0C214] interacts with 10 human partners:{Q8N0Z2;Q86XR8;P20749;P25963;P41182;Q14397;Q92973;Q14974;P31749;Q14181}

15033 Pathogen[ P03346] interacts with 11 human partners:{Q8N0Z2;Q86XR8;P25963;O00327;Q92973;P31749;Q14181;P41182;Q14397;P20749;Q149

74}  
15034 Pathogen[ Q85601] interacts with 11 human  
partners:{P31749;O00327;Q14974;Q86XR8;Q92973;Q14181;Q14397;P41182;Q8N0Z2;P20749;P25963}

15035 Pathogen[ P14079] interacts with 9 human  
partners:{P60468;P41182;Q14974;Q92973;Q14181;Q8N0Z2;P20749;Q14397;Q86XR8}

15036 Pathogen[ P03383] interacts with 9 human  
partners:{Q86XR8;Q14181;P31749;P20749;Q14397;Q92973;P25963;Q8N0Z2;Q14974}

15037 Pathogen[ P03410] interacts with 10 human  
partners:{Q14397;P20749;Q14974;P60468;Q14181;P31749;Q92973;P41182;Q8N0Z2;P25963}

15038 Pathogen[ P14075] interacts with 9 human  
partners:{Q92973;P25963;Q8N0Z2;P31749;Q86XR8;Q14397;Q14974;Q14181;P20749}

15039 Pathogen[ P0C206] interacts with 11 human  
partners:{Q86XR8;P31749;P41182;Q14974;P25963;Q92973;O00327;Q14181;P20749;Q14397;Q8N0Z2}

15040 Pathogen[ P03363] interacts with 10 human  
partners:{Q92973;Q14397;P25963;Q14181;Q8N0Z2;P20749;P31749;O00327;Q14974;Q86XR8}

15041 [Cluster 1368]GO:0002448+P biological\_process [name] mast cell mediated immunity  
[def] "Any process involved in the carrying out of an immune response by a mast cell."  
[GO\_REF

15042 Pathogen[ Q2Q067] interacts with 1 human partners:{P50453}

15043 Pathogen[ P0C214] interacts with 1 human partners:{P50453}

15044 Pathogen[ P03346] interacts with 1 human partners:{P50453}

15045 Pathogen[ Q85601] interacts with 1 human partners:{P50453}

15046 Pathogen[ P14079] interacts with 1 human partners:{P50453}

15047 Pathogen[ P03383] interacts with 1 human partners:{P50453}

15048 Pathogen[ P03410] interacts with 1 human partners:{P50453}

15049 Pathogen[ P14075] interacts with 1 human partners:{P50453}

15050 Pathogen[ P0C206] interacts with 1 human partners:{P50453}

15051 Pathogen[ P03363] interacts with 1 human partners:{P50453}

15052 [Cluster 1369]GO:0007005+P biological\_process [name]mitochondrion organization  
[def] "A process that is carried out at the cellular level which results in the assembly, arrangement of constituent parts, or disassembly of a mitochondrion\_ includes mitochondrial morphogenesis and distribution, and replication of the mitochondrial genome as well as synthesis of new mitochondrial components." [GOC

15053 Pathogen[ Q2Q067] interacts with 11 human  
partners:{Q16656;Q99497;Q9H0F6;P29474;Q53G26;Q6P444;P02489;O15287;Q99814;Q96EY1;P49715}

15054 Pathogen[ P0C214] interacts with 12 human  
partners:{P29474;O15287;P02489;Q16656;Q9H0F6;Q99497;Q8WV60;Q9BUK6;Q53G26;Q6P444;Q99814;Q96EY1}

15055 Pathogen[ P03346] interacts with 15 human  
partners:{Q6P444;P29474;Q16656;P02489;Q9BUK6;P17152;Q96C03;Q9H0F6;P49715;O15287;Q99814;Q53G26;Q99497;P50542;Q96EY1}

15056 Pathogen[ Q85601] interacts with 12 human  
partners:{Q99497;P02489;Q16656;Q53G26;Q8WV60;Q99814;Q9H0F6;P29474;P49715;Q9BUK6;O15287;Q96EY1}

15057 Pathogen[ P14079] interacts with 16 human  
partners:{P17152;Q99814;Q12887;Q6P444;Q16656;Q9BUK6;Q99497;Q9UPW5;P02489;Q8WV60;P50542;P49715;Q9H0F6;Q96C03;Q96EY1;Q15390}

15058 Pathogen[ P03383] interacts with 9 human  
partners:{P29474;Q9H0F6;Q16656;O15287;P17152;Q96C03;Q96EY1;Q53G26;Q6P444}

15059 Pathogen[ P03410] interacts with 18 human  
partners:{Q99497;Q53G26;Q9UPW5;Q15390;Q99814;Q8WV60;Q6P444;Q9BUK6;P29474;P02489;O15287;P50542;Q16656;P17152;Q96C03;Q12887;Q96EY1;Q9H0F6}

15060 Pathogen[ P14075] interacts with 10 human  
partners:{P29474;Q16656;Q96C03;Q6P444;Q53G26;Q15390;P17152;O15287;Q9H0F6;Q96EY1}

15061 Pathogen[ P0C206] interacts with 18 human  
partners:{Q8WV60;Q53G26;Q9BUK6;P49715;Q99497;Q6P444;P50542;Q16656;O15287;P17152;P29474;Q9H0F6;Q99814;Q9UPW5;Q15390;P02489;Q96EY1;Q96C03}

15062 Pathogen[ P03363] interacts with 9 human  
partners:{P29474;O15287;Q53G26;Q96C03;Q16656;Q99814;Q9H0F6;P02489;Q96EY1}

15063 [Cluster 1370]GO:0051496+P biological\_process [name] positive regulation of stress fiber assembly [def] "Any process that activates or increases the frequency, rate or extent of the assembly of a stress fiber, a bundle of microfilaments and other proteins found in fibroblasts." [GOC

15064 Pathogen[ Q2Q067] interacts with 10 human  
partners:{Q9H4X1;Q9Y613;P07737;Q8WY54;P84022;P08697;O60504;P49593;P61586;O95429}

15065 Pathogen[ P0C214] interacts with 9 human  
partners:{P08697;Q9H4X1;P61586;P84022;Q9Y613;O95429;Q8WY54;P49593;O60504}

15066 Pathogen[ P03346] interacts with 9 human  
partners:{Q9H4X1;Q8WY54;Q9Y613;P49593;P84022;O60504;P07737;O95429;P61586}

15067 Pathogen[ Q85601] interacts with 10 human  
partners:{Q9H4X1;Q9Y613;P49593;P08697;P07737;P61586;P84022;Q8WY54;O60504;O95429}

15068 Pathogen[ P14079] interacts with 7 human  
partners:{P49593;O95429;P07737;O60504;Q9Y613;Q8WY54;P61586}



15069 Pathogen[ P03383] interacts with 9 human partners:{Q9H4X1;P08697;P07737;Q9Y613;P84022;P61586;Q8WY54;O60504;O95429}

15070 Pathogen[ P03410] interacts with 10 human partners:{P84022;Q9H4X1;Q8WY54;P61586;P08697;O95429;Q9Y613;O60504;P49593;P07737}

15071 Pathogen[ P14075] interacts with 9 human partners:{Q9H4X1;Q9Y613;P07737;P08697;P61586;Q8WY54;O60504;P84022;O95429}

15072 Pathogen[ P0C206] interacts with 10 human partners:{P84022;Q9H4X1;O60504;Q8WY54;P61586;P49593;O95429;Q9Y613;P07737;P08697}

15073 Pathogen[ P03363] interacts with 6 human partners:{Q9H4X1;Q9Y613;P84022;O95429;P07737;Q8WY54}

15074 [Cluster 1371]GO:0010975+P biological\_process [name] regulation of neuron projection development [def] "Any process that modulates the rate, frequency or extent of neuron projection development. Neuron projection development is the process whose specific outcome is the progression of a neuron projection over time, from its formation to the mature structure. A neuron projection is any process extending from a neural cell, such as axons or dendrites (collectively called neurites)." [GOC

15075 Pathogen[ Q2Q067] interacts with 2 human partners:{P31749;Q9NRI5}

15076 Pathogen[ P0C214] interacts with 3 human partners:{Q9NRI5;P62166;P31749}

15077 Pathogen[ P03346] interacts with 3 human partners:{Q9NRI5;P31749;P62166}

15078 Pathogen[ Q85601] interacts with 4 human partners:{P31749;Q9NRI5;P62166;Q9GZM8}

15079 Pathogen[ P14079] interacts with 3 human partners:{Q9NRI5;P62166;Q9GZM8}

15080 Pathogen[ P03383] interacts with 2 human partners:{Q9NRI5;P31749}

15081 Pathogen[ P03410] interacts with 4 human partners:{Q9GZM8;P31749;Q9NRI5;P62166}

15082 Pathogen[ P14075] interacts with 2 human partners:{Q9NRI5;P31749}

15083 Pathogen[ P0C206] interacts with 4 human partners:{P31749;P62166;Q9GZM8;Q9NRI5}

15084 Pathogen[ P03363] interacts with 2 human partners:{P31749;Q9NRI5}

15085 [Cluster 1372]GO:0090103+P biological\_process [name] cochlea morphogenesis [def] "The process in which the cochlea is generated and organized." [GOC

15086 Pathogen[ Q2Q067] interacts with 5 human partners:{Q99502;O14641;P49639;Q8TE85;P63000}

15087 Pathogen[ P0C214] interacts with 5 human partners:{P63000;P49639;Q8TE85;O14641;Q99502}

15088 Pathogen[ P03346] interacts with 7 human partners:{P49639;Q99502;Q8TE85;O14641;Q15475;P49335;P63000}

15089 Pathogen[ Q85601] interacts with 5 human partners:{Q8TE85;P49639;P63000;O14641;Q99502}

15090 Pathogen[ P14079] interacts with 4 human partners:{Q99502;O14641;Q8TE85;P49639}

15091 Pathogen[ P03383] interacts with 4 human partners:{P63000;Q8TE85;P49639;O14641}

15092 Pathogen[ P03410] interacts with 5 human partners:{P63000;Q99502;Q8TE85;P49639;O14641}

15093 Pathogen[ P14075] interacts with 4 human partners:{Q8TE85;O14641;P63000;Q99502}

15094 Pathogen[ P0C206] interacts with 4 human partners:{Q8TE85;P49639;P63000;Q99502}

15095 Pathogen[ P03363] interacts with 5 human partners:{P49639;P63000;Q8TE85;P49335;O14641}

15096 [Cluster 1373]GO:0006400+P biological\_process [name] tRNA modification [def] "The covalent alteration of one or more nucleotides within a tRNA molecule to produce a tRNA molecule with a sequence that differs from that coded genetically." [GOC

15097 Pathogen[ Q2Q067] interacts with 4 human partners:{Q9UBP6;P57081;Q9H974;Q9BXR0}

15098 Pathogen[ P0C214] interacts with 5 human partners:{Q9BXR0;P57081;P49588;Q9UBP6;Q9H974}

15099 Pathogen[ P03346] interacts with 4 human partners:{Q9UBP6;Q9BXR0;Q9H974;P57081}

15100 Pathogen[ Q85601] interacts with 4 human partners:{Q9BXR0;Q9UBP6;Q9H974;P57081}

15101 Pathogen[ P14079] interacts with 6 human partners:{P57081;Q9BXR0;Q9NWX6;Q96SZ6;P49588;Q9H974}

15102 Pathogen[ P03383] interacts with 4 human partners:{Q9H974;Q9UBP6;P57081;Q9BXR0}

15103 Pathogen[ P03410] interacts with 5 human partners:{Q9H974;Q9UBP6;P49588;P57081;Q9NWX6}

15104 Pathogen[ P14075] interacts with 4 human partners:{Q9H974;Q9BXR0;P57081;Q9UBP6}

15105 Pathogen[ P0C206] interacts with 4 human partners:{Q9UBP6;Q9H974;P57081;Q9BXR0}

15106 Pathogen[ P03363] interacts with 5 human partners:{Q9BXR0;Q9UBP6;Q9H974;P57081;P05455}

15107 [Cluster 1374]GO:0048488+P biological\_process [name] synaptic vesicle endocytosis [def] "An endocytosis process that results in the invagination of the axonal plasma membrane to create a membrane-bounded vesicle. This process takes up excess membrane that would otherwise accumulate at the presynaptic terminal due to fusion of vesicle membranes during neurotransmitter release. The vesicles created may subsequently be used for neurotransmitter storage and release." [GOC

15108 Pathogen[ Q2Q067] interacts with 3 human partners:{Q14160;P63010;Q99962}

15109 Pathogen[ P0C214] interacts with 3 human partners:{Q99962;P63010;Q14160}

15110 Pathogen[ P03346] interacts with 3 human partners:{P63010;Q99962;Q14160}

15111 Pathogen[ Q85601] interacts with 3 human partners:{Q99962;Q14160;P63010}

15112 Pathogen[ P14079] interacts with 2 human partners:{P63010;Q99962}

15113 Pathogen[ P03383] interacts with 2 human partners:{Q14160;P63010}

15114 Pathogen[ P03410] interacts with 3 human partners:{Q14160;P63010;Q99962}

15115 Pathogen[ P14075] interacts with 2 human partners:{Q14160;P63010}

15116 Pathogen[ P0C206] interacts with 3 human partners:{P63010;Q99962;Q14160}

15117 Pathogen[ P03363] interacts with 3 human partners:{Q99962;Q14160;P63010}

15118 [Cluster 1375]GO:0042110+P biological\_process [name] T cell activation [def] "The change in morphology and behavior of a mature or immature T cell resulting from exposure to a mitogen, cytokine, chemokine, cellular ligand, or an antigen for which it is specific." [GOC

15119 Pathogen[ Q2Q067] interacts with 9 human partners:{Q08209;Q96JZ2;O43639;Q12959;Q15306;P84022;P16333;P42768;Q01826}

15120 Pathogen[ POC214] interacts with 10 human partners:{P84022;O43639;Q96JZ2;Q08209;P10809;Q12959;P16333;Q01826;P42768;Q15306}

15121 Pathogen[ P03346] interacts with 10 human partners:{O43639;Q9H6Q3;P42768;Q15306;P16333;P84022;Q96JZ2;Q08209;Q01826;Q12959}

15122 Pathogen[ Q85601] interacts with 10 human partners:{P16333;Q15306;O43639;Q08209;Q9H6Q3;P42768;Q01826;P84022;Q96JZ2;Q12959}

15123 Pathogen[ P14079] interacts with 11 human partners:{P39656;P16298;Q01826;Q15306;P16333;Q96JZ2;Q9H6Q3;O43639;O43561;Q08209;P42768}

15124 Pathogen[ P03383] interacts with 5 human partners:{Q01826;Q15306;P84022;P42768;P16333}

15125 Pathogen[ P03410] interacts with 12 human partners:{P84022;Q08209;Q12959;O43639;O43561;P42768;P16333;Q15306;Q01826;Q96JZ2;P39656;Q9H6Q3}

15126 Pathogen[ P14075] interacts with 5 human partners:{P42768;Q01826;P16333;Q15306;P84022}

15127 Pathogen[ POC206] interacts with 11 human partners:{P84022;Q9H6Q3;P39656;Q15306;Q96JZ2;P16333;Q01826;Q08209;P42768;O43639;Q12959}

15128 Pathogen[ P03363] interacts with 9 human partners:{Q12959;Q96JZ2;Q01826;Q9H6Q3;P42768;Q15306;O43639;P16333;P84022}

15129 [Cluster 1376]GO:0060330+P biological\_process [name] regulation of response to interferon-gamma [def] "Any process that modulates the rate, frequency or extent of a response to interferon-gamma. Response to interferon gamma is a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an interferon-gamma stimulus." [GOC

15130 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8IXQ6}

15131 Pathogen[ POC214] interacts with 1 human partners:{Q8IXQ6}

15132 Pathogen[ P03346] interacts with 1 human partners:{Q8IXQ6}

15133 Pathogen[ Q85601] interacts with 1 human partners:{Q8IXQ6}

15134 Pathogen[ P14079] interacts with 1 human partners:{Q8IXQ6}

15135 Pathogen[ P03383] interacts with 1 human partners:{Q8IXQ6}

15136 Pathogen[ P03410] interacts with 1 human partners:{Q8IXQ6}

15137 Pathogen[ P14075] interacts with 1 human partners:{Q8IXQ6}

15138 Pathogen[ POC206] interacts with 1 human partners:{Q8IXQ6}

15139 Pathogen[ P03363] interacts with 1 human partners:{Q8IXQ6}

15140 [Cluster 1377]GO:0090136+P biological\_process [name] epithelial cell-cell adhesion [def] "The attachment of an epithelial cell to another epithelial cell via adhesion molecules." [GOC

15141 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9P1Y5;P11831;P60953}

15142 Pathogen[ POC214] interacts with 3 human partners:{Q9P1Y5;P11831;P60953}

15143 Pathogen[ P03346] interacts with 4 human partners:{P11831;P60953;Q9P1Y5;Q6IQ23}

15144 Pathogen[ Q85601] interacts with 4 human partners:{P11831;Q9P1Y5;Q6IQ23;P60953}

15145 Pathogen[ P14079] interacts with 2 human partners:{Q6IQ23;Q9P1Y5}

15146 Pathogen[ P03383] interacts with 3 human partners:{P11831;P60953;Q9P1Y5}

15147 Pathogen[ P03410] interacts with 4 human partners:{P11831;Q9P1Y5;P60953;Q6IQ23}

15148 Pathogen[ P14075] interacts with 3 human partners:{P60953;P11831;Q9P1Y5}

15149 Pathogen[ POC206] interacts with 4 human partners:{Q9P1Y5;P60953;P11831;Q6IQ23}

15150 Pathogen[ P03363] interacts with 4 human partners:{P11831;Q9P1Y5;P60953;Q6IQ23}

15151 [Cluster 1378]GO:0072661+P biological\_process [name] protein targeting to plasma membrane [def] "The process of directing proteins towards the plasma membrane\_ usually uses signals contained within the protein." [GOC

15152 Pathogen[ Q2Q067] interacts with 3 human partners:{Q01082;Q6VY07;Q86VP3}

15153 Pathogen[ POC214] interacts with 4 human partners:{P16157;Q86VP3;Q01082;Q6VY07}

15154 Pathogen[ P03346] interacts with 6 human partners:{P16157;Q01082;Q969F2;Q6VY07;Q86VP3;Q15363}

15155 Pathogen[ Q85601] interacts with 4 human partners:{P16157;Q01082;Q6VY07;Q86VP3}

15156 Pathogen[ P14079] interacts with 6 human partners:{Q6VY07;Q01082;O75781;P16157;Q15363;Q86VP3}

15157 Pathogen[ P03383] interacts with 2 human partners:{Q6VY07;Q86VP3}

15158 Pathogen[ P03410] interacts with 7 human partners:{O75781;Q969F2;Q86VP3;P16157;Q15363;Q01082;Q6VY07}

15159 Pathogen[ P14075] interacts with 2 human partners:{Q86VP3;Q6VY07}

15160 Pathogen[ POC206] interacts with 6 human partners:{Q01082;Q969F2;P16157;Q6VY07;Q86VP3;Q15363}

15161 Pathogen[ P03363] interacts with 3 human partners:{P16157;Q01082;Q6VY07}

15162 [Cluster 1379]GO:0030910+P biological\_process [name] olfactory placode formation [def] "The formation of a thickening of the neural ectoderm in the head region of the vertebrate embryo which develops into the olfactory region of the nasal cavity." [GOC

15163 Pathogen[ Q2Q067] interacts with 1 human partners:{P14859}  
15164 Pathogen[ P0C214] interacts with 1 human partners:{P14859}  
15165 Pathogen[ P03346] interacts with 1 human partners:{P14859}  
15166 Pathogen[ Q85601] interacts with 1 human partners:{P14859}  
15167 Pathogen[ P14079] interacts with 1 human partners:{P14859}  
15168 Pathogen[ P03383] interacts with 1 human partners:{P14859}  
15169 Pathogen[ P03410] interacts with 1 human partners:{P14859}  
15170 Pathogen[ P14075] interacts with 1 human partners:{P14859}  
15171 Pathogen[ P0C206] interacts with 1 human partners:{P14859}  
15172 Pathogen[ P03363] interacts with 1 human partners:{P14859}  
15173 [Cluster 1380]GO:0031133+P biological\_process [name] regulation of axon diameter  
[def] "Any process that modulates the rate, direction or extent of axon growth such that  
the correct diameter is attained and maintained." [GOC  
15174 Pathogen[ Q2Q067] interacts with 1 human partners:{P07197}  
15175 Pathogen[ P0C214] interacts with 1 human partners:{P07197}  
15176 Pathogen[ P03346] interacts with 1 human partners:{P07197}  
15177 Pathogen[ Q85601] interacts with 1 human partners:{P07197}  
15178 Pathogen[ P14079] interacts with 1 human partners:{P07197}  
15179 Pathogen[ P03383] interacts with 1 human partners:{P07197}  
15180 Pathogen[ P03410] interacts with 1 human partners:{P07197}  
15181 Pathogen[ P14075] interacts with 1 human partners:{P07197}  
15182 Pathogen[ P0C206] interacts with 1 human partners:{P07197}  
15183 Pathogen[ P03363] interacts with 1 human partners:{P07197}  
15184 [Cluster 1381]GO:0021987+P biological\_process [name] cerebral cortex development  
[def] "The progression of the cerebral cortex over time from its initial formation until  
its mature state. The cerebral cortex is the outer layered region of the telencephalon."  
[GO\_REF  
15185 Pathogen[ Q2Q067] interacts with 7 human  
partners:{P62258;A6NKD9;Q9NXR1;Q92754;O95359;O75410;Q04743}  
15186 Pathogen[ P0C214] interacts with 5 human  
partners:{O95359;Q92754;O75410;A6NKD9;Q9NXR1}  
15187 Pathogen[ P03346] interacts with 11 human  
partners:{A6NKD9;O43379;O75410;P62258;O95359;Q04743;Q92858;Q9NXR1;Q04741;Q92754;Q8N9  
60}  
15188 Pathogen[ Q85601] interacts with 7 human  
partners:{Q92754;P62258;A6NKD9;O43379;Q9NXR1;O75410;O95359}  
15189 Pathogen[ P14079] interacts with 10 human  
partners:{O95359;Q9Y6A5;A6NKD9;O43379;Q8N960;Q92754;P62258;Q04743;O75410;Q9NXR1}  
15190 Pathogen[ P03383] interacts with 4 human partners:{A6NKD9;O75410;Q92754;P62258}  
15191 Pathogen[ P03410] interacts with 10 human  
partners:{P62258;Q8N960;O95359;A6NKD9;Q9NXR1;Q9Y6A5;O43379;O75410;Q04743;Q92754}  
15192 Pathogen[ P14075] interacts with 4 human partners:{O75410;Q92754;A6NKD9;P62258}  
15193 Pathogen[ P0C206] interacts with 10 human  
partners:{A6NKD9;O95359;Q04743;Q92754;O75410;O43379;P62258;Q9Y6A5;Q9NXR1;Q8N960}  
15194 Pathogen[ P03363] interacts with 10 human  
partners:{O75410;P62258;A6NKD9;O43379;Q04741;O95359;Q9NXR1;Q04743;Q92754;Q8N960}  
15195 [Cluster 1382]GO:0045494+P biological\_process [name] photoreceptor cell maintenance  
[def] "Any process preventing the degeneration of the photoreceptor, a specialized cell  
type that is sensitive to light." [CL  
15196 Pathogen[ Q2Q067] interacts with 4 human partners:{Q9Y6N9;Q03468;Q15051;Q495M9}  
15197 Pathogen[ P0C214] interacts with 4 human partners:{Q15051;Q495M9;Q9Y6N9;Q03468}  
15198 Pathogen[ P03346] interacts with 5 human  
partners:{Q9Y6N9;Q15051;Q03468;Q8IWN7;Q495M9}  
15199 Pathogen[ Q85601] interacts with 4 human partners:{Q03468;Q9Y6N9;Q15051;Q495M9}  
15200 Pathogen[ P14079] interacts with 7 human  
partners:{Q8N960;Q8IWN7;P56715;Q9Y6N9;Q15051;Q495M9;Q03468}  
15201 Pathogen[ P03383] interacts with 2 human partners:{Q15051;Q03468}  
15202 Pathogen[ P03410] interacts with 8 human  
partners:{Q8N960;Q495M9;Q03468;Q9Y6N9;Q15051;Q9UBY8;Q8IWN7;P56715}  
15203 Pathogen[ P14075] interacts with 2 human partners:{Q15051;Q03468}  
15204 Pathogen[ P0C206] interacts with 7 human  
partners:{P56715;Q9Y6N9;Q03468;Q8IWN7;Q495M9;Q8N960;Q15051}  
15205 Pathogen[ P03363] interacts with 7 human  
partners:{Q9Y6N9;Q15051;P56715;Q495M9;Q03468;Q8IWN7;Q8N960}  
15206 [Cluster 1383]GO:0045063+P biological\_process [name] T-helper 1 cell differentiation  
[def] "The process in which a relatively unspecialized T cell acquires the specialized  
features of a T-helper 1 (Th1) cell. A Th1 cell is a CD4-positive, alpha-beta T cell  
that has the phenotype T-bet-positive and produces interferon-gamma." [CL  
15207 Pathogen[ Q2Q067] interacts with 1 human partners:{Q01201}  
15208 Pathogen[ P0C214] interacts with 1 human partners:{Q01201}  
15209 Pathogen[ P03346] interacts with 1 human partners:{Q01201}  
15210 Pathogen[ Q85601] interacts with 1 human partners:{Q01201}  
15211 Pathogen[ P14079] interacts with 1 human partners:{Q01201}  
15212 Pathogen[ P03383] interacts with 1 human partners:{Q01201}  
15213 Pathogen[ P03410] interacts with 1 human partners:{Q01201}  
15214 Pathogen[ P14075] interacts with 1 human partners:{Q01201}

15215 Pathogen[ P0C206] interacts with 1 human partners:{Q01201}

15216 Pathogen[ P03363] interacts with 1 human partners:{Q01201}

15217 [Cluster 1384]GO:0046080+P biological\_process [name] dUTP metabolic process [def] "The chemical reactions and pathways involving dUTP, deoxyuridine (5'-)triphosphate." [GOC]

15218 Pathogen[ Q2Q067] interacts with 1 human partners:{P33316}

15219 Pathogen[ P0C214] interacts with 1 human partners:{P33316}

15220 Pathogen[ P03346] interacts with 1 human partners:{P33316}

15221 Pathogen[ Q85601] interacts with 1 human partners:{P33316}

15222 Pathogen[ P14079] interacts with 1 human partners:{P33316}

15223 Pathogen[ P03383] interacts with 1 human partners:{P33316}

15224 Pathogen[ P03410] interacts with 1 human partners:{P33316}

15225 Pathogen[ P14075] interacts with 1 human partners:{P33316}

15226 Pathogen[ P0C206] interacts with 1 human partners:{P33316}

15227 Pathogen[ P03363] interacts with 1 human partners:{P33316}

15228 [Cluster 1385]GO:0000462+P biological\_process [name] maturation of SSU-rRNA from tricistronic rRNA transcript (SSU-rRNA, 5.8S rRNA, LSU-rRNA) [def] "Any process involved in the maturation of a precursor Small SubUnit (SSU) ribosomal RNA (rRNA) molecule into a mature SSU-rRNA molecule from the pre-rRNA molecule originally produced as a tricistronic rRNA transcript that contains the Small Subunit (SSU) rRNA, 5.8S rRNA, and the Large Subunit (LSU) in that order from 5' to 3' along the primary transcript." [GOC]

15229 Pathogen[ Q2Q067] interacts with 3 human partners:{P62241;P78316;P62847}

15230 Pathogen[ P0C214] interacts with 3 human partners:{P62847;P78316;P62241}

15231 Pathogen[ P03346] interacts with 3 human partners:{P78316;P62847;P62241}

15232 Pathogen[ Q85601] interacts with 3 human partners:{P62241;P62847;P78316}

15233 Pathogen[ P14079] interacts with 3 human partners:{P62847;P62241;P78316}

15234 Pathogen[ P03383] interacts with 3 human partners:{P78316;P62241;P62847}

15235 Pathogen[ P03410] interacts with 3 human partners:{P62241;P78316;P62847}

15236 Pathogen[ P14075] interacts with 3 human partners:{P78316;P62847;P62241}

15237 Pathogen[ P0C206] interacts with 3 human partners:{P62241;P78316;P62847}

15238 Pathogen[ P03363] interacts with 3 human partners:{P62847;P62241;P78316}

15239 [Cluster 1386]GO:0010837+P biological\_process [name] regulation of keratinocyte proliferation [def] "Any process that modulates the rate, frequency or extent of keratinocyte proliferation. Keratinocyte proliferation is the multiplication or reproduction of keratinocytes, resulting in the expansion of a cell population." [GOC]

15240 Pathogen[ Q2Q067] interacts with 1 human partners:{P46937}

15241 Pathogen[ P0C214] interacts with 1 human partners:{P46937}

15242 Pathogen[ P03346] interacts with 1 human partners:{P46937}

15243 Pathogen[ Q85601] interacts with 1 human partners:{P46937}

15244 Pathogen[ P14079] interacts with 1 human partners:{P46937}

15245 Pathogen[ P03383] interacts with 1 human partners:{P46937}

15246 Pathogen[ P03410] interacts with 1 human partners:{P46937}

15247 Pathogen[ P14075] interacts with 1 human partners:{P46937}

15248 Pathogen[ P0C206] interacts with 1 human partners:{P46937}

15249 Pathogen[ P03363] interacts with 1 human partners:{P46937}

15250 [Cluster 1387]GO:0021794+P biological\_process [name] thalamus development [def] "The process in which the thalamus changes over time, from its initial formation to its mature state." [GO\_REF]

15251 Pathogen[ Q2Q067] interacts with 1 human partners:{075376}

15252 Pathogen[ P0C214] interacts with 1 human partners:{075376}

15253 Pathogen[ P03346] interacts with 2 human partners:{Q16559;075376}

15254 Pathogen[ Q85601] interacts with 1 human partners:{075376}

15255 Pathogen[ P14079] interacts with 2 human partners:{014949;075376}

15256 Pathogen[ P03383] interacts with 1 human partners:{075376}

15257 Pathogen[ P03410] interacts with 3 human partners:{075376;014949;Q16559}

15258 Pathogen[ P14075] interacts with 1 human partners:{075376}

15259 Pathogen[ P0C206] interacts with 1 human partners:{075376}

15260 Pathogen[ P03363] interacts with 1 human partners:{075376}

15261 [Cluster 1388]GO:0006144+P biological\_process [name] purine base metabolic process [def] "The chemical reactions and pathways involving purine bases, one of the two classes of nitrogen-containing ring compounds found in DNA and RNA, which include adenine and guanine." [GOC]

15262 Pathogen[ Q2Q067] interacts with 1 human partners:{P07741}

15263 Pathogen[ P0C214] interacts with 7 human partners:{Q96P26;P49902;P07741;Q8TCD5;Q9Y2T3;P31939;P30566}

15264 Pathogen[ P03346] interacts with 1 human partners:{P07741}

15265 Pathogen[ Q85601] interacts with 1 human partners:{P07741}

15266 Pathogen[ P14079] interacts with 10 human partners:{P22234;Q96P26;Q8TCD5;P31939;Q9Y2T3;P49902;P49915;Q9BXI3;O15067;P07741}

15267 Pathogen[ P03383] interacts with 1 human partners:{P07741}

15268 Pathogen[ P03410] interacts with 11 human partners:{Q96P26;P49915;P07741;P22234;Q9Y2T3;Q9BXI3;P30566;O15067;P31939;Q8TCD5;P49902}

15269 Pathogen[ P14075] interacts with 2 human partners:{P49902;P07741}

15270 Pathogen[ P0C206] interacts with 4 human partners:{P49902;P31939;Q8TCD5;P07741}

15271 Pathogen[ P03363] interacts with 1 human partners:{P07741}

15272 [Cluster 1389]GO:0006301+P biological\_process [name] postreplication repair [def] "The conversion of DNA-damage induced single-stranded gaps into large molecular weight DNA after replication. Includes pathways that remove replication-blocking lesions in conjunction with DNA replication." [GOC

15273 Pathogen[ Q2Q067] interacts with 4 human partners:{Q9Y253;P63146;P61088;P49459}

15274 Pathogen[ P0C214] interacts with 4 human partners:{P49459;Q9Y253;P63146;P61088}

15275 Pathogen[ P03346] interacts with 5 human partners:{Q9Y253;P49459;P61088;P63146;Q9C0J8}

15276 Pathogen[ Q85601] interacts with 4 human partners:{P63146;P49459;P61088;Q9Y253}

15277 Pathogen[ P14079] interacts with 3 human partners:{P49459;Q9Y253;P63146}

15278 Pathogen[ P03383] interacts with 4 human partners:{Q9Y253;P61088;P49459;P63146}

15279 Pathogen[ P03410] interacts with 4 human partners:{P49459;P61088;Q9Y253;P63146}

15280 Pathogen[ P14075] interacts with 4 human partners:{P61088;P49459;Q9Y253;P63146}

15281 Pathogen[ P0C206] interacts with 4 human partners:{Q9Y253;P61088;P49459;P63146}

15282 Pathogen[ P03363] interacts with 4 human partners:{P49459;Q9Y253;P63146;P61088}

15283 [Cluster 1390]GO:0031401+P biological\_process [name] positive regulation of protein modification process [def] "Any process that activates or increases the frequency, rate or extent of the covalent alteration of one or more amino acid residues within a protein." [GOC

15284 Pathogen[ Q2Q067] interacts with 1 human partners:{O60356}

15285 Pathogen[ P0C214] interacts with 1 human partners:{O60356}

15286 Pathogen[ P03346] interacts with 1 human partners:{O60356}

15287 Pathogen[ Q85601] interacts with 1 human partners:{O60356}

15288 Pathogen[ P14079] interacts with 2 human partners:{Q9H0Y0;O60356}

15289 Pathogen[ P03383] interacts with 1 human partners:{O60356}

15290 Pathogen[ P03410] interacts with 2 human partners:{Q9H0Y0;O60356}

15291 Pathogen[ P14075] interacts with 1 human partners:{O60356}

15292 Pathogen[ P0C206] interacts with 1 human partners:{O60356}

15293 Pathogen[ P03363] interacts with 1 human partners:{O60356}

15294 [Cluster 1391]GO:0043148+P biological\_process [name] mitotic spindle stabilization [def] "The cell cycle process in which spindle integrity is maintained during M phase of mitosis." [GOC

15295 Pathogen[ Q2Q067] interacts with 2 human partners:{P14635;Q9Y3A5}

15296 Pathogen[ P0C214] interacts with 2 human partners:{P14635;Q9Y3A5}

15297 Pathogen[ P03346] interacts with 2 human partners:{P14635;Q9Y3A5}

15298 Pathogen[ Q85601] interacts with 2 human partners:{Q9Y3A5;P14635}

15299 Pathogen[ P14079] interacts with 2 human partners:{Q9Y3A5;P14635}

15300 Pathogen[ P03383] interacts with 2 human partners:{P14635;Q9Y3A5}

15301 Pathogen[ P03410] interacts with 2 human partners:{P14635;Q9Y3A5}

15302 Pathogen[ P14075] interacts with 2 human partners:{P14635;Q9Y3A5}

15303 Pathogen[ P0C206] interacts with 2 human partners:{Q9Y3A5;P14635}

15304 Pathogen[ P03363] interacts with 1 human partners:{Q9Y3A5}

15305 [Cluster 1392]GO:0048565+P biological\_process [name] digestive tract development [def] "The process whose specific outcome is the progression of the digestive tract over time, from its formation to the mature structure. The digestive tract is the anatomical structure through which food passes and is processed." [GOC

15306 Pathogen[ Q2Q067] interacts with 2 human partners:{P06400;P14635}

15307 Pathogen[ P0C214] interacts with 2 human partners:{P14635;P06400}

15308 Pathogen[ P03346] interacts with 5 human partners:{Q9H2W2;P06400;Q95096;P14635;Q8TAU0}

15309 Pathogen[ Q85601] interacts with 2 human partners:{P06400;P14635}

15310 Pathogen[ P14079] interacts with 1 human partners:{P14635}

15311 Pathogen[ P03383] interacts with 2 human partners:{P14635;P06400}

15312 Pathogen[ P03410] interacts with 2 human partners:{P06400;P14635}

15313 Pathogen[ P14075] interacts with 2 human partners:{P14635;P06400}

15314 Pathogen[ P0C206] interacts with 3 human partners:{P14635;Q8TAU0;P06400}

15315 Pathogen[ P03363] interacts with 3 human partners:{Q9H2W2;P06400;Q8TAU0}

15316 [Cluster 1393]GO:0051012+P biological\_process [name] microtubule sliding [def] "The movement of one microtubule along another microtubule." [PMID

15317 Pathogen[ Q2Q067] interacts with 1 human partners:{P27816}

15318 Pathogen[ P0C214] interacts with 1 human partners:{P27816}

15319 Pathogen[ P03346] interacts with 1 human partners:{P27816}

15320 Pathogen[ Q85601] interacts with 1 human partners:{P27816}

15321 Pathogen[ P14079] interacts with 1 human partners:{P27816}

15322 Pathogen[ P03383] interacts with 1 human partners:{P27816}

15323 Pathogen[ P03410] interacts with 1 human partners:{P27816}

15324 Pathogen[ P14075] interacts with 1 human partners:{P27816}

15325 Pathogen[ P0C206] interacts with 1 human partners:{P27816}

15326 Pathogen[ P03363] interacts with 1 human partners:{P27816}

15327 [Cluster 1394]GO:0009755+P biological\_process [name] hormone-mediated signaling pathway [def] "A series of molecular signals mediated by the detection of a hormone." [GOC

15328 Pathogen[ Q2Q067] interacts with 2 human partners:{P10827;P37198}

15329 Pathogen[ P0C214] interacts with 1 human partners:{P37198}

15330 Pathogen[ P03346] interacts with 2 human partners:{P10827;P37198}

15331 Pathogen[ Q85601] interacts with 1 human partners:{P10827}

15332 Pathogen[ P14079] interacts with 3 human partners:{P20396;P10827;P37198}

15333 Pathogen[ P03383] interacts with 1 human partners:{P37198}

15334 Pathogen[ P03410] interacts with 1 human partners:{P20396}

15335 Pathogen[ P14075] interacts with 1 human partners:{P37198}

15336 Pathogen[ P0C206] interacts with 2 human partners:{P20396;P10827}

15337 Pathogen[ P03363] interacts with 1 human partners:{P37198}

15338 [Cluster 1395]GO:0010038+P biological\_process [name] response to metal ion [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a metal ion stimulus." [GOC

15339 Pathogen[ Q2Q067] interacts with 7 human partners:{P55212;Q96PU5;Q14872;P80297;Q92597;O60888;P08397}

15340 Pathogen[ P0C214] interacts with 8 human partners:{Q14872;P55212;O60888;P80297;P08397;Q92597;P22830;Q96PU5}

15341 Pathogen[ P03346] interacts with 6 human partners:{Q96PU5;O60888;Q14872;P55212;P80297;Q92597}

15342 Pathogen[ Q85601] interacts with 8 human partners:{O60888;Q14872;Q96PU5;P80297;Q9Y4I5;P08397;Q92597;P55212}

15343 Pathogen[ P14079] interacts with 8 human partners:{P80297;Q92597;Q9Y4I5;P55212;P08397;O60888;P22830;Q14872}

15344 Pathogen[ P03383] interacts with 6 human partners:{P55212;P80297;Q92597;Q14872;P08397;O60888}

15345 Pathogen[ P03410] interacts with 8 human partners:{P08397;P80297;Q9Y4I5;Q14872;P22830;Q92597;P55212;O60888}

15346 Pathogen[ P14075] interacts with 6 human partners:{O60888;P80297;P55212;P08397;Q92597;Q14872}

15347 Pathogen[ P0C206] interacts with 9 human partners:{Q92597;Q96PU5;Q9Y4I5;P55212;O60888;P22830;Q14872;P08397;P80297}

15348 Pathogen[ P03363] interacts with 6 human partners:{P80297;O60888;Q92597;P55212;Q14872;Q96PU5}

15349 [Cluster 1396]GO:0007565+P biological\_process [name] female pregnancy [def] "The set of physiological processes that allow an embryo or foetus to develop within the body of a female animal. It covers the time from fertilization of a female ovum by a male spermatozoon until birth." [ISBN

15350 Pathogen[ Q2Q067] interacts with 7 human partners:{P01100;P14921;Q9NZI6;Q99594;P10914;Q13895;P15407}

15351 Pathogen[ P0C214] interacts with 9 human partners:{P14921;P15407;P01100;P17275;P10914;Q9Y6I3;Q99594;Q9NZI6;Q13895}

15352 Pathogen[ P03346] interacts with 9 human partners:{Q13895;Q99594;P17275;Q9NZI6;P14921;P10914;P15407;Q9Y6I3;P01100}

15353 Pathogen[ Q85601] interacts with 9 human partners:{P14921;P15407;P10914;P01100;Q99594;Q9NZI6;Q9Y6I3;Q13895;P17275}

15354 Pathogen[ P14079] interacts with 10 human partners:{Q9UHF0;Q9Y6I3;P01225;Q99594;Q9NZI6;P17275;P15407;Q13895;P01100;P10914}

15355 Pathogen[ P03383] interacts with 8 human partners:{P10914;P14921;Q13895;P15407;Q9NZI6;P01100;Q99594;P17275}

15356 Pathogen[ P03410] interacts with 10 human partners:{Q99594;Q9Y6I3;Q13895;P01100;P17275;Q9UHF0;P10914;Q9NZI6;P15407;P14921}

15357 Pathogen[ P14075] interacts with 8 human partners:{P17275;Q99594;P14921;Q9NZI6;P01100;P15407;P10914;Q13895}

15358 Pathogen[ P0C206] interacts with 9 human partners:{P10914;P14921;P15407;P17275;Q13895;P01100;Q9Y6I3;Q9NZI6;Q99594}

15359 Pathogen[ P03363] interacts with 8 human partners:{P14921;P17275;Q13895;Q9NZI6;P10914;P15407;Q99594;P01100}

15360 [Cluster 1397]GO:0006306+P biological\_process [name] DNA methylation [def] "The covalent transfer of a methyl group to either N-6 of adenine or C-5 or N-4 of cytosine." [GOC

15361 Pathogen[ Q2Q067] interacts with 13 human partners:{Q6VMQ6;P01100;Q8IZD2;Q9NPF5;Q9Y6K1;Q86YP4;Q9UJW3;Q9UBC3;P26358;P46100;Q9UIF9;P16455;P49711}

15362 Pathogen[ P0C214] interacts with 12 human partners:{Q6VMQ6;P01100;Q9Y6K1;Q9UIF9;P46100;P26358;Q86YP4;P16455;P49711;Q9NPF5;Q8IZD2;Q9UJW3}

15363 Pathogen[ P03346] interacts with 14 human partners:{Q9NRZ9;Q9Y6K1;P46100;Q9UBC3;P26358;Q6VMQ6;Q86YP4;P49711;Q9UIF9;O14717;P01100;Q8IZD2;Q9UJW3;Q9NPF5}

15364 Pathogen[ Q85601] interacts with 13 human partners:{Q9UIF9;Q9UJW3;P16455;P26358;P49711;P01100;Q86YP4;Q9Y6K1;Q6VMQ6;Q8IZD2;P46100;Q9UBC3;Q9NPF5}

15365 Pathogen[ P14079] interacts with 13 human partners:{Q9Y6K1;P16455;Q86YP4;P46100;Q6VMQ6;Q9UBC3;Q9UJW3;Q9NPF5;Q9UIF9;P26358;Q9Y5R4;P01100;P49711}

15366 Pathogen[ P03383] interacts with 10 human partners:{P49711;Q86YP4;Q9UJW3;Q6VMQ6;P46100;Q9Y6K1;Q9NPF5;Q9UIF9;P01100;P26358}

15367 Pathogen[ P03410] interacts with 13 human

15368 partners:{Q9NPF5;Q86YP4;P01100;Q6VMQ6;P26358;P16455;P46100;P49711;Q9UBC3;Q9UIF9;Q9UJW3;Q9Y6K1;Q9Y5R4} Pathogen[ P14075] interacts with 10 human

15369 partners:{Q9Y6K1;Q9UJW3;P26358;Q9NPF5;P46100;Q6VMQ6;Q9UIF9;P01100;P49711;Q86YP4} Pathogen[ P0C206] interacts with 14 human

15370 partners:{Q6VMQ6;Q9Y6K1;Q9NPF5;P46100;P26358;Q86YP4;P49711;P01100;Q9UIF9;Q9NRZ9;Q9UBC3;P16455;Q9UJW3;Q8IZD2} Pathogen[ P03363] interacts with 13 human

15371 partners:{Q9NPF5;Q6VMQ6;Q86YP4;Q9Y5R4;Q9Y6K1;Q14717;P49711;P46100;Q9UIF9;P26358;Q9UJW3;Q9UBC3;P01100} [Cluster 1398]GO:0070141+P biological\_process [name] response to UV-A [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a UV-A radiation stimulus. UV-A radiation (UV-A light) spans the wavelengths 400 to 500 nm." [GOC

15372 Pathogen[ Q2Q067] interacts with 3 human partners:{P31749;P24385;P02489}

15373 Pathogen[ P0C214] interacts with 3 human partners:{P02489;P24385;P31749}

15374 Pathogen[ P03346] interacts with 3 human partners:{P24385;P02489;P31749}

15375 Pathogen[ Q85601] interacts with 3 human partners:{P02489;P31749;P24385}

15376 Pathogen[ P14079] interacts with 1 human partners:{P02489}

15377 Pathogen[ P03383] interacts with 2 human partners:{P31749;P24385}

15378 Pathogen[ P03410] interacts with 3 human partners:{P31749;P24385;P02489}

15379 Pathogen[ P14075] interacts with 2 human partners:{P31749;P24385}

15380 Pathogen[ P0C206] interacts with 3 human partners:{P31749;P02489;P24385}

15381 Pathogen[ P03363] interacts with 3 human partners:{P31749;P24385;P02489}

15382 [Cluster 1399]GO:0010923+P biological\_process [name] negative regulation of phosphatase activity [def] "Any process that decreases the rate or frequency of phosphatase activity. Phosphatases catalyze the hydrolysis of phosphoric monoesters, releasing inorganic phosphate." [GOC

15383 Pathogen[ Q2Q067] interacts with 18 human partners:{Q9H175;Q9UJT2;Q14684;Q9NPG3;O95400;Q5T8A7;Q9P1Y5;O00566;Q9HCH5;A8K8P3;Q8WYN3;Q9H788;Q8TEP8;P55199;Q92796;Q8NG31;O94763;Q7Z699}

15384 Pathogen[ P0C214] interacts with 20 human partners:{Q9H788;Q9H175;Q7Z699;Q8WYN3;O95400;Q92796;Q9P1Y5;A8K8P3;Q9HCH5;Q8TEP8;Q9UJT2;P55199;Q5T8A7;Q8NG31;Q96LQ0;Q14684;O00566;O94763;Q9BYG3;Q9NPG3}

15385 Pathogen[ P03346] interacts with 26 human partners:{Q9NPG3;O95400;Q9H788;O94763;Q8WYN3;Q9HCH5;Q9P1Y5;O00566;Q8TEP8;Q92796;Q9H175;Q9UJT2;Q9NW75;Q9H4Z3;Q14684;Q9BYG3;P55199;Q15700;Q86WC6;Q5T8A7;Q8NG31;Q7Z699;A8K8P3;Q14C87;Q8TEC5;Q9HBF4}

15386 Pathogen[ Q85601] interacts with 19 human partners:{Q9NPG3;Q14684;Q9HBF4;Q9P1Y5;Q9HCH5;Q8NG31;Q8TEP8;Q8WYN3;Q9H175;Q9H788;O00566;Q92796;Q5T8A7;P55199;O95400;O94763;Q7Z699;A8K8P3;Q9UJT2}

15387 Pathogen[ P14079] interacts with 29 human partners:{Q14C87;P55199;Q8TEP8;Q15700;Q6GV28;Q9HCH5;Q5T8A7;Q8NG31;A8K8P3;Q9H175;Q8TAP8;O94763;O95400;Q7Z699;O00566;Q9NPG3;Q6ZMY3;Q86WC6;Q14684;Q9H4Z3;Q6PJW8;Q9BYG3;Q9P1Y5;Q92796;Q8WYN3;Q9HBF4;Q9UJT2;Q9H788;Q96LQ0}

15388 Pathogen[ P03383] interacts with 18 human partners:{P55199;O95400;Q9HCH5;Q8WYN3;Q9H175;Q14684;A8K8P3;Q8TEP8;Q14C87;O94763;Q9P1Y5;Q9UJT2;Q9H788;Q9NPG3;Q5T8A7;Q8NG31;Q92796;O00566}

15389 Pathogen[ P03410] interacts with 29 human partners:{Q9UJT2;Q9HCH5;O94763;Q14C87;Q8TEP8;Q14684;Q7Z699;Q96LQ0;Q8NG31;Q9P1Y5;Q9H175;Q9NPG3;Q86WC6;Q15700;P55199;Q8WYN3;Q5T8A7;Q9BYG3;Q92796;Q6PJW8;Q8TAP8;Q9H788;Q9H4Z3;O95400;Q6GV28;Q9HBF4;Q6ZMY3;A8K8P3;O00566}

15390 Pathogen[ P14075] interacts with 20 human partners:{O00566;Q9H788;Q9H175;Q5T8A7;Q14C87;A8K8P3;Q9HCH5;O95400;O94763;Q8TEP8;Q14684;Q96LQ0;Q92796;P55199;Q8NG31;Q8TAP8;Q8WYN3;Q9P1Y5;Q9UJT2;Q9NPG3}

15391 Pathogen[ P0C206] interacts with 29 human partners:{Q6ZMY3;Q9BYG3;Q15700;Q86WC6;A8K8P3;Q9P1Y5;Q8TEP8;Q9UJT2;Q9NPG3;Q6PJW8;Q9H788;O95400;Q5T8A7;Q96LQ0;Q9H175;Q9H4Z3;P55199;Q92796;Q8TAP8;Q9HCH5;Q8NG31;Q14C87;Q9HBF4;Q7Z699;Q8WYN3;Q99640;O94763;O00566;Q14684}

15392 Pathogen[ P03363] interacts with 25 human partners:{Q5T8P6;A8K8P3;Q9H175;O95400;P55199;Q9NPG3;Q14C87;Q15700;Q9NW75;Q86WC6;Q8TEP8;Q14684;Q8WYN3;Q7Z699;Q9P1Y5;O94763;Q9H788;O00566;Q8NG31;Q9BYG3;Q5T8A7;Q8TEC5;Q9HCH5;Q92796;Q9UJT2}

15393 [Cluster 1400]GO:000018+P biological\_process [name] regulation of DNA recombination [def] "Any process that modulates the frequency, rate or extent of DNA recombination, a DNA metabolic process in which a new genotype is formed by reassortment of genes resulting in gene combinations different from those that were present in the parents." [GOC

15394 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9H4L7;P52292;P52294}

15395 Pathogen[ P0C214] interacts with 3 human partners:{Q9H4L7;P52294;P52292}

15396 Pathogen[ P03346] interacts with 3 human partners:{P52292;P52294;Q9H4L7}

15397 Pathogen[ Q85601] interacts with 3 human partners:{Q9H4L7;P52292;P52294}

15398 Pathogen[ P14079] interacts with 3 human partners:{Q9H4L7;P52294;P52292}

15399 Pathogen[ P03383] interacts with 2 human partners:{P52292;P52294}

15400 Pathogen[ P03410] interacts with 3 human partners:{Q9H4L7;P52294;P52292}

15401 Pathogen[ P14075] interacts with 2 human partners:{P52292;P52294}  
15402 Pathogen[ POC206] interacts with 3 human partners:{Q9H4L7;P52294;P52292}  
15403 Pathogen[ P03363] interacts with 3 human partners:{Q9H4L7;P52292;P52294}  
15404 [Cluster 1401]GO:0060564+P biological\_process [name] negative regulation of mitotic anaphase-promoting complex activity [def] "Any process that decreases the rate frequency or extent of anaphase-promoting complex activity regulating the mitotic cell cycle." [GOC  
15405 Pathogen[ Q2Q067] interacts with 2 human partners:{Q13257;Q9UI95}  
15406 Pathogen[ POC214] interacts with 2 human partners:{Q13257;Q9UI95}  
15407 Pathogen[ P03346] interacts with 3 human partners:{Q9UI95;Q9H0E7;Q13257}  
15408 Pathogen[ Q85601] interacts with 3 human partners:{Q9H0E7;Q9UI95;Q13257}  
15409 Pathogen[ P14079] interacts with 1 human partners:{Q13257}  
15410 Pathogen[ P03383] interacts with 2 human partners:{Q13257;Q9UI95}  
15411 Pathogen[ P03410] interacts with 2 human partners:{Q9UI95;Q13257}  
15412 Pathogen[ P14075] interacts with 2 human partners:{Q13257;Q9UI95}  
15413 Pathogen[ POC206] interacts with 3 human partners:{Q13257;Q9H0E7;Q9UI95}  
15414 Pathogen[ P03363] interacts with 2 human partners:{Q9UI95;Q13257}  
15415 [Cluster 1402]GO:0043537+P biological\_process [name] negative regulation of blood vessel endothelial cell migration [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the migration of the endothelial cells of blood vessels." [GOC  
15416 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9H4X1;P67870}  
15417 Pathogen[ POC214] interacts with 2 human partners:{Q9H4X1;P67870}  
15418 Pathogen[ P03346] interacts with 2 human partners:{Q9H4X1;P67870}  
15419 Pathogen[ Q85601] interacts with 2 human partners:{Q9H4X1;P67870}  
15420 Pathogen[ P14079] interacts with 1 human partners:{P67870}  
15421 Pathogen[ P03383] interacts with 2 human partners:{Q9H4X1;P67870}  
15422 Pathogen[ P03410] interacts with 2 human partners:{Q9H4X1;P67870}  
15423 Pathogen[ P14075] interacts with 2 human partners:{Q9H4X1;P67870}  
15424 Pathogen[ POC206] interacts with 2 human partners:{Q9H4X1;P67870}  
15425 Pathogen[ P03363] interacts with 2 human partners:{Q9H4X1;P67870}  
15426 [Cluster 1403]GO:0001541+P biological\_process [name] ovarian follicle development [def] "The process whose specific outcome is the progression of the ovarian follicle over time, from its formation to the mature structure." [GOC  
15427 Pathogen[ Q2Q067] interacts with 8 human partners:{P49770;P30279;Q9UI10;O00268;P35869;Q13144;Q05086;O15287}  
15428 Pathogen[ POC214] interacts with 8 human partners:{Q05086;O00268;O15287;Q9UI10;P35869;P49770;Q13144;P30279}  
15429 Pathogen[ P03346] interacts with 11 human partners:{P30279;P58012;O60393;O00268;O15287;Q5JUK2;P49770;Q05086;P35869;Q13144;Q9UI10}  
15430 Pathogen[ Q85601] interacts with 8 human partners:{O00268;Q13144;P49770;P30279;O15287;P35869;Q05086;Q9UI10}  
15431 Pathogen[ P14079] interacts with 6 human partners:{P35869;Q9UI10;P01225;Q7Z7C7;Q13144;O00268}  
15432 Pathogen[ P03383] interacts with 7 human partners:{Q9UI10;P30279;Q13144;O15287;O00268;P49770;P35869}  
15433 Pathogen[ P03410] interacts with 7 human partners:{P30279;O00268;P49770;O15287;Q7Z7C7;Q9UI10;Q13144}  
15434 Pathogen[ P14075] interacts with 8 human partners:{P35869;P30279;Q9UI10;P49770;O15287;O00268;Q13144;Q7Z7C7}  
15435 Pathogen[ POC206] interacts with 10 human partners:{O60393;P35869;P30279;Q05086;O00268;Q13144;Q7Z7C7;P49770;O15287;Q9UI10}  
15436 Pathogen[ P03363] interacts with 10 human partners:{O15287;Q5JUK2;P30279;Q9UI10;O00268;Q05086;P35869;P49770;O60393;Q13144}  
15437 [Cluster 1404]GO:0031016+P biological\_process [name] pancreas development [def] "The process whose specific outcome is the progression of the pancreas over time, from its formation to the mature structure. The pancreas is an endoderm derived structure that produces precursors of digestive enzymes and blood glucose regulating enzymes." [GOC  
15438 Pathogen[ Q2Q067] interacts with 3 human partners:{O95948;Q15796;O14770}  
15439 Pathogen[ POC214] interacts with 3 human partners:{Q15796;O14770;O95948}  
15440 Pathogen[ P03346] interacts with 9 human partners:{P50219;Q9Y283;Q7RTS3;Q15796;Q9UBC0;P78426;O95948;P78367;O14770}  
15441 Pathogen[ Q85601] interacts with 4 human partners:{Q9Y283;O95948;O14770;Q15796}  
15442 Pathogen[ P14079] interacts with 3 human partners:{O95948;O14770;Q9Y283}  
15443 Pathogen[ P03383] interacts with 2 human partners:{O14770;Q15796}  
15444 Pathogen[ P03410] interacts with 4 human partners:{O95948;Q9Y283;Q15796;O14770}  
15445 Pathogen[ P14075] interacts with 2 human partners:{Q15796;O14770}  
15446 Pathogen[ POC206] interacts with 5 human partners:{Q9UBC0;O14770;Q15796;Q9Y283;O95948}  
15447 Pathogen[ P03363] interacts with 7 human partners:{Q9UBC0;O95948;Q7RTS3;Q15796;Q9Y283;P78367;P50219}  
15448 [Cluster 1405]GO:0090305+P biological\_process [name] nucleic acid phosphodiester bond hydrolysis [def] "The nucleic acid metabolic process in which the phosphodiester bonds between nucleotides are cleaved by hydrolysis." [GOC  
15449 Pathogen[ Q2Q067] interacts with 44 human



- partners: {Q8TCS8; Q96SD1; Q15631; Q5D1E8; Q99638; Q96LI5; Q8IZH2; Q8NCE0; P49959; Q7KZF4; Q9Y2L1; Q9NRR4; O60930; O95551; Q504Q3; P27695; Q9GZR2; Q12972; Q9BSV6; A4GXA9; P52758; Q86US8; Q9NUW8; P54278; Q9UQ84; Q8TF46; Q9BRX2; P39748; Q92499; Q9H816; Q9H9L3; Q9H9J2; Q96NY9; Q96MB7; Q9BQ65; Q96AY2; Q9BQ52; Q93075; O95453; O75792; A2A288; Q8IYD8; O60671; Q9ULM6}
- 15450 Pathogen[ P0C214] interacts with 52 human  
partners: {O95551; Q8N1G1; P27695; Q9H9J2; Q9BQ65; O95453; P49959; Q9H816; Q9Y2L1; Q504Q3; Q96SD1; Q9BRX2; Q96NY9; Q7KZF4; O75792; Q8TF46; Q9BSV6; Q8IZH2; Q96MB7; Q9ULM6; A2A288; Q86US8; Q96AY2; Q9BQ52; Q6P1N9; Q8TCS8; Q9H9L3; O60930; Q9NRR4; Q8IV48; A4GXA9; Q17R31; Q8WTP8; Q93075; O60671; Q92499; Q15631; Q9C0D7; Q9GZR2; P39748; Q9UQ84; Q12972; Q8IYB7; Q9NUW8; P52758; P54278; Q96LI5; Q99638; Q5D1E8; Q8IYD8; Q8NCE0; Q9Y3B8}
- 15451 Pathogen[ P03346] interacts with 50 human  
partners: {Q504Q3; Q9ULM6; A2A288; O95551; Q96SD1; Q9GZR2; Q8IX06; Q86US8; Q9H9L3; P52758; O60930; Q9NUW8; Q96AY2; Q99638; Q8IYB7; Q8IZH2; Q96NY9; O95453; Q9BQ65; Q92499; Q15631; Q7KZF4; Q8TCS8; Q9Y2L1; Q5D1E8; Q17R31; P49959; Q9UQ84; P54278; Q9NRR4; Q8IYD8; O60671; P24855; P27695; Q13283; P39748; Q9H816; Q9BRX2; Q9UBZ4; Q9BQ52; Q93075; Q12972; Q96LI5; Q9BSV6; A4GXA9; Q8TF46; Q96MB7; Q8NCE0; Q9H9J2; O75792}
- 15452 Pathogen[ Q85601] interacts with 47 human  
partners: {Q9UBZ4; Q9BQ52; Q8IYD8; Q9UQ84; P52758; Q17R31; A4GXA9; Q9NRR4; Q96AY2; O75792; P49959; Q92499; Q7KZF4; Q9BSV6; Q504Q3; Q9Y2L1; Q8IYB7; Q8IZH2; Q96NY9; Q96LI5; A2A288; Q96MB7; Q96SD1; O95453; Q12972; Q8TCS8; Q9ULM6; Q9NUW8; Q9GZR2; Q9H9L3; Q86US8; Q9C0D7; O60671; P54278; O60930; P39748; Q9H9J2; Q9H816; Q9BRX2; Q93075; P27695; Q8TF46; Q99638; O95551; Q15631; Q5D1E8; Q8NCE0}
- 15453 Pathogen[ P14079] interacts with 62 human  
partners: {O60671; Q6P1N9; P52758; Q8IV48; Q9BRX2; Q9Y3B8; Q5D1E8; Q96NY9; Q8IYD8; Q9UBZ4; O75792; Q9BSV6; Q96LI5; P54278; P49184; O94919; Q86US8; Q9GZR2; Q9BQ65; Q8TF46; Q8NCE0; O00115; O95453; Q96AY2; Q9BQ50; A4GXA9; Q96MB7; Q8N1G1; Q15631; Q8IYB7; Q8IZH2; Q9H9L3; Q8N8Q3; Q9H9L3; Q9NRR4; P24855; P27695; Q9BQ52; Q9Y2L1; Q93075; O95551; Q9NSU2; Q12972; Q9H9J2; Q8WZ79; Q96SD1; Q5HYM0; Q92499; Q99638; Q7KZF4; Q9ULM6; A2A288; O60930; Q504Q3; Q17R31; Q9H816; Q9UQ84; Q8TCS8; P39748; Q9C0D7; Q8WTP8}
- 15454 Pathogen[ P03383] interacts with 35 human  
partners: {Q9NRR4; Q9Y2L1; O60671; P54278; Q93075; O75792; Q96MB7; A4GXA9; Q9BQ65; Q12972; Q5D1E8; Q8NCE0; Q8TCS8; Q9BRX2; Q15631; A2A288; Q9BQ52; P52758; Q9BSV6; Q9H816; Q86US8; Q7KZF4; Q96AY2; Q9H9L3; Q9ULM6; Q99638; Q9NUW8; Q9H9J2; O60930; P27695; O95551; Q92499; O95453; Q96LI5; Q96NY9}
- 15455 Pathogen[ P03410] interacts with 64 human  
partners: {Q96LI5; P49959; Q9Y2L1; Q17R31; Q8WTP8; Q9GZR2; Q9Y3B8; Q8TCS8; P49184; Q96AY2; Q9H816; Q8IV48; Q96MB7; Q8IYD8; Q9BQ50; A4GXA9; Q9C0D7; Q9ULM6; Q6P1N9; O75792; Q8TF46; Q8NHP7; Q9BQ52; Q5HYM0; A2A288; Q93075; P39748; Q9NSU2; Q96SD1; Q9BSV6; Q9H9J2; Q9NRR4; O60930; Q9H9L3; Q8IYH2; Q9UBZ4; O95551; O95453; Q99638; Q92499; Q9BRX2; Q5D1E8; Q2TB18; Q96NY9; Q8IX06; Q9NUW8; Q8N1G1; O60671; Q8IYB7; Q86US8; P63135; P27695; Q12972; Q15631; Q7KZF4; O00115; P52758; P54278; Q9UQ84; Q9BQ65; Q8NCE0; Q504Q3; P24855; Q9H9L3}
- 15456 Pathogen[ P14075] interacts with 35 human  
partners: {O95453; Q9BSV6; Q9ULM6; P27695; Q9BRX2; O60930; O60671; Q93075; Q9H9J2; Q96LI5; Q9Y2L1; Q99638; Q92499; Q96MB7; Q15631; Q86US8; Q8NCE0; Q9BQ65; Q9BQ52; Q96NY9; Q9H816; Q9NRR4; Q5D1E8; Q9H9L3; O75792; Q8TCS8; Q96AY2; P54278; Q7KZF4; P52758; Q12972; Q9NUW8; A4GXA9; A2A288; O95551}
- 15457 Pathogen[ P0C206] interacts with 57 human  
partners: {P27695; P54278; Q504Q3; Q96AY2; Q17RS7; Q9H9L3; O95453; P49959; Q9BSV6; Q9UQ84; Q9NSU2; Q8IZH2; Q8TCS8; Q17R31; Q8IV48; Q9BQ65; Q96LI5; Q9C0D7; Q8IYD8; Q9H9L3; A2A288; Q9NUW8; Q7KZF4; Q15631; Q96SD1; Q9UBZ4; Q96MB7; Q9H816; P24855; Q8N1G1; A4GXA9; Q99638; O60930; Q96NY9; Q93075; Q86US8; Q9Y3B8; O75792; Q5D1E8; O95551; Q6P1N9; Q9NRR4; Q9Y2L1; Q5HYM0; O60671; Q9H9J2; Q12972; Q8NCE0; P39748; Q9GZR2; Q8IYB7; P52758; Q92499; Q9BQ52; Q9ULM6; Q8TF46; Q9BRX2}
- 15458 Pathogen[ P03363] interacts with 44 human  
partners: {Q504Q3; Q9H816; Q9BQ50; P52758; O95453; Q12972; Q9BSV6; A2A288; Q93075; Q86US8; Q13283; Q9GZR2; O60671; Q15631; Q9H9J2; Q96MB7; Q7KZF4; O75792; Q9ULM6; Q8IYB7; P54278; Q8N1G1; P07998; Q8IYD8; Q9H9L3; Q9NUW8; Q9Y2L1; Q92499; Q96AY2; Q9NRR4; Q96LI5; Q9BQ65; Q8IX06; Q99638; O95551; Q9BRX2; Q5D1E8; O60930; P24855; A4GXA9; Q96NY9; Q8TF46; Q8NCE0; Q8IZH2}
- 15459 [Cluster 1406]GO:0043039+P biological\_process [name] tRNA aminoacylation [def] "The chemical reactions and pathways by which the various amino acids become bonded to their corresponding tRNAs. The most common route for synthesis of aminoacyl tRNA is by the formation of an ester bond between the 3'-hydroxyl group of the most 3' adenosine of the tRNA, usually catalyzed by the cognate aminoacyl-tRNA ligase. A given aminoacyl-tRNA ligase aminoacylates all species of an isoaccepting group of tRNA molecules." [GOC
- 15460 Pathogen[ Q2Q067] interacts with 5 human  
partners: {O95363; Q9Y285; P07814; Q6PI48; Q9BW92}
- 15461 Pathogen[ P0C214] interacts with 13 human  
partners: {O95363; P07814; Q9Y285; Q5JTP6; Q9BTE6; Q5JPH6; P26639; A2RTX5; P49588; P47897; Q9BW92; Q6PI48; Q9Y2Z4}
- 15462 Pathogen[ P03346] interacts with 3 human partners: {P07814; Q9Y285; Q6PI48}
- 15463 Pathogen[ Q85601] interacts with 8 human  
partners: {P26639; P07814; Q9BW92; Q9Y285; A2RTX5; O95363; P47897; Q6PI48}
- 15464 Pathogen[ P14079] interacts with 12 human  
partners: {Q9Y285; P26639; Q9BTE6; Q9BW92; P47897; O95363; A2RTX5; Q5JPH6; Q9Y2Z4; P49588; Q6PI48; P07814}
- 15465 Pathogen[ P03383] interacts with 9 human  
partners: {Q9Y285; Q5JPH6; Q9BTE6; A2RTX5; Q9Y2Z4; O95363; P07814; Q6PI48; Q9BW92}

15466 Pathogen[ P03410] interacts with 12 human partners: {Q9Y285;Q9BTE6;Q9BW92;P49588;P47897;P26639;Q5JPH6;Q9Y2Z4;P07814;A2RTX5;O9563;Q6PI48}

15467 Pathogen[ P14075] interacts with 10 human partners: {Q9Y2Z4;O95363;Q9Y285;Q9BTE6;A2RTX5;Q9BW92;P26639;Q6PI48;Q5JPH6;P07814}

15468 Pathogen[ P0C206] interacts with 11 human partners: {O95363;P07814;Q9Y2Z4;Q6PI48;A2RTX5;Q5JPH6;Q9Y285;Q9BTE6;Q9BW92;P26639;P47897}

15469 Pathogen[ P03363] interacts with 10 human partners: {Q9Y2Z4;A2RTX5;P47897;Q5JPH6;Q9BTE6;Q6PI48;O95363;Q9BW92;Q9Y285;P07814}

15470 [Cluster 1407]GO:0051438+P biological\_process [name] regulation of ubiquitin-protein ligase activity [def] "Any process that modulates the frequency, rate or extent of ubiquitin ligase activity, the catalysis of the reaction

15471 Pathogen[ Q2Q067] interacts with 1 human partners: {Q9UK73}

15472 Pathogen[ P0C214] interacts with 1 human partners: {Q9UK73}

15473 Pathogen[ P03346] interacts with 1 human partners: {Q9UK73}

15474 Pathogen[ Q85601] interacts with 1 human partners: {Q9UK73}

15475 Pathogen[ P14079] interacts with 1 human partners: {Q9UK73}

15476 Pathogen[ P03383] interacts with 1 human partners: {Q9UK73}

15477 Pathogen[ P03410] interacts with 1 human partners: {Q9UK73}

15478 Pathogen[ P14075] interacts with 1 human partners: {Q9UK73}

15479 Pathogen[ P0C206] interacts with 1 human partners: {Q9UK73}

15480 Pathogen[ P03363] interacts with 1 human partners: {Q9UK73}

15481 [Cluster 1408]GO:0030282+P biological\_process [name] bone mineralization [def] "The deposition of calcium phosphate in bone tissue." [GOC

15482 Pathogen[ Q2Q067] interacts with 2 human partners: {Q13118;Q9Y3A5}

15483 Pathogen[ P0C214] interacts with 3 human partners: {Q9NUA8;Q9H469;Q9Y3A5}

15484 Pathogen[ P03346] interacts with 4 human partners: {Q9H469;Q9NUA8;Q13118;Q9Y3A5}

15485 Pathogen[ Q85601] interacts with 4 human partners: {Q9NUA8;Q9Y3A5;Q9H469;Q13118}

15486 Pathogen[ P14079] interacts with 4 human partners: {Q13118;Q9NUA8;Q9Y3A5;Q9UNW1}

15487 Pathogen[ P03383] interacts with 1 human partners: {Q9Y3A5}

15488 Pathogen[ P03410] interacts with 6 human partners: {Q9H469;Q13118;Q9UNW1;Q9NRM1;Q9Y3A5;Q9NUA8}

15489 Pathogen[ P14075] interacts with 1 human partners: {Q9Y3A5}

15490 Pathogen[ P0C206] interacts with 4 human partners: {Q9NUA8;Q9Y3A5;Q13118;Q9H469}

15491 Pathogen[ P03363] interacts with 4 human partners: {Q9NUA8;Q9Y3A5;Q9H469;Q13118}

15492 [Cluster 1409]GO:0006926+P biological\_process [name] virus-infected cell apoptosis [def] "The process of apoptosis in cells infected with a virus." [GOC

15493 Pathogen[ Q2Q067] interacts with 1 human partners: {Q13794}

15494 Pathogen[ P0C214] interacts with 1 human partners: {Q13794}

15495 Pathogen[ P03346] interacts with 1 human partners: {Q13794}

15496 Pathogen[ Q85601] interacts with 1 human partners: {Q13794}

15497 Pathogen[ P14079] interacts with 1 human partners: {Q13794}

15498 Pathogen[ P03383] interacts with 1 human partners: {Q13794}

15499 Pathogen[ P03410] interacts with 1 human partners: {Q13794}

15500 Pathogen[ P14075] interacts with 1 human partners: {Q13794}

15501 Pathogen[ P0C206] interacts with 1 human partners: {Q13794}

15502 Pathogen[ P03363] interacts with 1 human partners: {Q13794}

15503 [Cluster 1410]GO:0006479+P biological\_process [name] protein methylation [def] "The addition of a methyl group to a protein amino acid. A methyl group is derived from methane by the removal of a hydrogen atom." [GOC

15504 Pathogen[ Q2Q067] interacts with 13 human partners: {O14744;Q9NVM4;Q96LA8;Q9Y5N5;P55345;P22061;Q9NR22;Q99873;P62324;P62495;Q9H5I1;Q86X55;P78543}

15505 Pathogen[ P0C214] interacts with 14 human partners: {Q9H5I1;P78543;Q9NVM4;Q99873;P55345;P15170;P22061;P62495;Q9Y5N5;P62324;Q8IXQ9;Q86X55;Q9NR22;Q96LA8}

15506 Pathogen[ P03346] interacts with 14 human partners: {P22061;Q99873;Q8IXQ9;Q9Y5N5;O14744;P62495;P55345;Q9NR22;Q9NVM4;Q86X55;P62324;Q9H5I1;P78543;Q96LA8}

15507 Pathogen[ Q85601] interacts with 15 human partners: {Q9H5I1;Q9NR22;Q86X55;P62495;Q9NVM4;P62324;Q9Y5N5;O14744;P15170;Q99873;P78543;P22061;Q8IXQ9;Q96LA8;P55345}

15508 Pathogen[ P14079] interacts with 14 human partners: {P78543;Q9NR22;P62324;Q96LA8;Q9Y5N5;Q99873;Q9NVM4;P62495;O60678;Q9H5I1;P55345;O14744;Q8IXQ9;Q9Y5R4}

15509 Pathogen[ P03383] interacts with 12 human partners: {P62324;Q86X55;O14744;P78543;Q99873;Q9NR22;P62495;Q9Y5N5;P22061;Q8IXQ9;Q9H5I1;Q96LA8}

15510 Pathogen[ P03410] interacts with 17 human partners: {Q96LA8;Q9NVM4;Q86X55;Q9NR22;Q8IXQ9;P15170;P62495;P62324;Q9H5I1;P78543;O14744;Q9Y5N5;P22061;O95568;Q9Y5R4;Q99873;P55345}

15511 Pathogen[ P14075] interacts with 12 human partners: {P62495;P62324;Q9NR22;Q9H5I1;Q8IXQ9;O14744;Q96LA8;Q99873;P78543;Q9Y5N5;Q86X55;P22061}

15512 Pathogen[ P0C206] interacts with 15 human

partners:{P62324;P22061;Q99873;O14744;Q86X55;Q96LA8;P62495;Q9NVM4;Q9H5I1;Q9Y5N5;Q9NR22;O60678;P55345;Q8IXQ9;P78543}

15513 Pathogen[ P03363] interacts with 15 human partners:{O14744;Q9H5I1;Q96LA8;O95568;Q9Y5R4;P78543;Q8IXQ9;P62495;Q9NVM4;Q9NR22;P62324;Q9Y5N5;Q6P2P2;Q86X55;Q99873}

15514 [Cluster 1411]GO:0048678+P biological\_process [name] response to axon injury [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an axon injury stimulus." [GOC

15515 Pathogen[ Q2Q067] interacts with 1 human partners:{P61244}

15516 Pathogen[ P0C214] interacts with 1 human partners:{P61244}

15517 Pathogen[ P03346] interacts with 1 human partners:{P61244}

15518 Pathogen[ Q85601] interacts with 1 human partners:{P61244}

15519 Pathogen[ P14079] interacts with 2 human partners:{Q16873;P61244}

15520 Pathogen[ P03383] interacts with 1 human partners:{P61244}

15521 Pathogen[ P03410] interacts with 2 human partners:{P61244;Q16873}

15522 Pathogen[ P14075] interacts with 1 human partners:{P61244}

15523 Pathogen[ P0C206] interacts with 1 human partners:{P61244}

15524 Pathogen[ P03363] interacts with 1 human partners:{P61244}

15525 [Cluster 1412]GO:0008050+P biological\_process [name] female courtship behavior [def] "The actions or reactions of a female, for the purpose of attracting a sexual partner." [GOC

15526 Pathogen[ Q2Q067] interacts with 2 human partners:{P10827;P10828}

15527 Pathogen[ P0C214] interacts with 1 human partners:{P10828}

15528 Pathogen[ P03346] interacts with 2 human partners:{P10827;P10828}

15529 Pathogen[ Q85601] interacts with 2 human partners:{P10827;P10828}

15530 Pathogen[ P14079] interacts with 2 human partners:{P10828;P10827}

15531 Pathogen[ P03383] interacts with 1 human partners:{P10828}

15532 Pathogen[ P03410] interacts with 1 human partners:{P10828}

15533 Pathogen[ P14075] interacts with 1 human partners:{P10828}

15534 Pathogen[ P0C206] interacts with 2 human partners:{P10828;P10827}

15535 Pathogen[ P03363] interacts with 1 human partners:{P10828}

15536 [Cluster 1413]GO:0060070+P biological\_process [name] canonical Wnt receptor signaling pathway [def] "The series of molecular signals initiated by binding of a Wnt protein to a frizzled family receptor on the surface of the target cell, followed by propagation of the signal via beta-catenin, and ending with a change in transcription of target genes. In this pathway, the activated receptor signals via downstream effectors that result in the inhibition of beta-catenin phosphorylation, thereby preventing degradation of beta-catenin. Stabilized beta-catenin can then accumulate and travel to the nucleus to trigger changes in transcription of target genes." [GOC

15537 Pathogen[ Q2Q067] interacts with 14 human partners:{P24385;O00512;P01106;P36402;Q86UU0;P17482;P63146;O14641;O60907;Q9NRI5;O75360;Q9BZK7;P60953;Q9HCK8}

15538 Pathogen[ P0C214] interacts with 15 human partners:{Q9NRI5;O60907;P60953;P17482;P24385;O14641;Q9HCK8;Q86UU0;O75360;O00512;P36402;Q9BZK7;P13533;P01106;P63146}

15539 Pathogen[ P03346] interacts with 16 human partners:{Q06945;Q9NRI5;P24385;O60907;P36402;P60953;P01106;Q9HCS4;O14641;P63146;O00512;Q9HCK8;Q9BZK7;O75360;Q86UU0;P17482}

15540 Pathogen[ Q85601] interacts with 16 human partners:{P01106;O75360;P24385;P63146;P13533;O60907;Q86UU0;O14641;O00512;P36402;Q9HCK8;Q9BZK7;P60953;Q9NRI5;Q9HCS4;P17482}

15541 Pathogen[ P14079] interacts with 11 human partners:{Q9BZK7;O14641;O60907;Q9NRI5;P36402;O00512;O75360;Q9HCK8;Q86UU0;P01106;P63146}

15542 Pathogen[ P03383] interacts with 14 human partners:{P01106;Q9NRI5;O60907;O75360;P17482;P60953;P24385;Q86UU0;O14641;O00512;P36402;Q9HCK8;Q9BZK7;P63146}

15543 Pathogen[ P03410] interacts with 16 human partners:{O00512;P17482;P01106;P36402;P24385;P63146;Q9HCK8;P60953;Q9NRI5;Q9HCS4;Q9BZK7;P13533;O75360;O60907;Q86UU0;O14641}

15544 Pathogen[ P14075] interacts with 14 human partners:{P60953;Q86UU0;P17482;O00512;P01106;Q9NRI5;O14641;Q9HCK8;O60907;O75360;P36402;Q9BZK7;P24385;P63146}

15545 Pathogen[ P0C206] interacts with 15 human partners:{Q9HCK8;O00512;Q86UU0;P13533;O60907;Q9HCS4;O75360;P17482;Q9NRI5;Q9BZK7;P60953;P01106;P36402;P63146;P24385}

15546 Pathogen[ P03363] interacts with 15 human partners:{O75360;P36402;Q9BZK7;O60907;P63146;Q9HCS4;P01106;Q9HCK8;O00512;Q86UU0;P24385;P17482;Q9NRI5;O14641;P60953}

15547 [Cluster 1414]GO:0042752+P biological\_process [name] regulation of circadian rhythm [def] "Any process that modulates the frequency, rate or extent of a circadian rhythm. A circadian rhythm is a biological process in an organism that recurs with a regularity of approximately 24 hours." [GOC

15548 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9UKT7;Q03060;Q16526}

15549 Pathogen[ P0C214] interacts with 5 human

15550 partners:{Q9UKT7;Q49AN0;Q03060;Q16526;P16220}  
Pathogen[ P03346] interacts with 5 human

15551 partners:{Q9UKT7;P16220;Q49AN0;Q16526;Q03060}  
Pathogen[ Q85601] interacts with 5 human

15552 partners:{Q49AN0;Q9UKT7;P16220;Q16526;Q03060}  
Pathogen[ P14079] interacts with 4 human partners:{Q16526;Q49AN0;Q03060;Q9UKT7}

15553 Pathogen[ P03383] interacts with 4 human partners:{P16220;Q9UKT7;Q03060;Q16526}

15554 Pathogen[ P03410] interacts with 5 human  
partners:{Q9UKT7;Q03060;Q16526;P16220;Q49AN0}

15555 Pathogen[ P14075] interacts with 4 human partners:{Q9UKT7;Q16526;Q03060;P16220}

15556 Pathogen[ P0C206] interacts with 5 human  
partners:{Q03060;P16220;Q9UKT7;Q16526;Q49AN0}

15557 Pathogen[ P03363] interacts with 5 human  
partners:{P16220;Q49AN0;Q16526;Q9UKT7;Q03060}

15558 [Cluster 1415]GO:0000413+P biological\_process [name] protein peptidyl-prolyl  
isomerization [def] "The modification of a protein by cis-trans isomerization of a  
proline residue." [GOC

15559 Pathogen[ Q2Q067] interacts with 12 human  
partners:{Q9UNP9;Q13356;Q9H2H8;P49792;Q13427;O43447;Q9Y237;Q15257;Q13526;Q08752;P232  
84;P62937}

15560 Pathogen[ P0C214] interacts with 21 human  
partners:{Q9Y536;Q6UX04;A2BFH1;Q13526;P30405;Q13427;P49792;P23284;Q15257;P30414;Q9H2  
H8;Q9Y237;P45877;Q9Y3C6;F5H284;Q13356;Q96BP3;O43447;Q08752;Q8IXY8;Q9UNP9}

15561 Pathogen[ P03346] interacts with 17 human  
partners:{Q9H2H8;O43447;Q9Y3C6;Q6UX04;P62937;Q15257;Q96BP3;Q13526;Q13427;Q9Y237;Q087  
52;Q9UNP9;Q13356;Q9Y536;A2BFH1;P49792;P23284}

15562 Pathogen[ Q85601] interacts with 21 human  
partners:{F5H284;P30405;Q6UX04;A2BFH1;Q9H2H8;Q96BP3;Q13427;Q08752;Q13526;P23284;Q9Y3  
C6;Q13356;P30414;O43447;P49792;Q8IXY8;Q15257;Q9Y536;P62937;Q9Y237;P45877}

15563 Pathogen[ P14079] interacts with 16 human  
partners:{O43447;Q8IXY8;Q08752;Q9Y237;P62937;Q13427;F5H284;Q13356;P45877;Q9H2H8;A2BF  
H1;P23284;Q6UX04;Q13526;Q9Y536;Q96BP3}

15564 Pathogen[ P03383] interacts with 12 human  
partners:{P49792;Q13356;Q9UNP9;Q15257;Q96BP3;Q9H2H8;P62937;Q08752;O43447;Q13427;P232  
84;Q13526}

15565 Pathogen[ P03410] interacts with 22 human  
partners:{Q08752;Q13526;Q9Y536;Q96BP3;Q15257;Q13356;Q9H2H8;P62937;P45877;Q6UX04;Q9Y3  
C6;P23284;Q9UNP9;F5H284;Q8IXY8;P30414;Q13427;Q9Y237;O43447;P30405;A2BFH1;P49792}

15566 Pathogen[ P14075] interacts with 10 human  
partners:{Q15257;Q08752;P23284;P49792;Q9UNP9;Q13526;O43447;P62937;Q13427;Q9H2H8}

15567 Pathogen[ P0C206] interacts with 21 human  
partners:{Q9Y536;Q9UNP9;Q13526;Q08752;Q96BP3;A2BFH1;F5H284;P49792;Q9Y3C6;Q13427;P232  
84;Q13356;O43447;Q9Y237;P45877;Q9H2H8;P30405;P62937;Q15257;Q8IXY8;Q6UX04}

15568 Pathogen[ P03363] interacts with 17 human  
partners:{P23284;Q13427;P62937;A2BFH1;Q6UX04;Q13356;Q96BP3;Q9Y3C6;Q08752;Q13526;O434  
47;P49792;Q9Y237;Q15257;Q9Y536;Q9H2H8;Q9UNP9}

15569 [Cluster 1416]GO:0021696+P biological\_process [name] cerebellar cortex morphogenesis  
[def] "The process in which the anatomical structure of the cranial nerves are generated  
and organized. The cerebellar cortex is a thin mantle of gray matter that covers the  
surface of each cerebral hemisphere. It has a characteristic morphology with  
convolutions (gyri) and crevices (sulci) that have specific functions. Six layers of  
nerve cells and the nerve pathways that connect them comprise the cerebellar cortex.  
Together, these regions are responsible for the processes of conscious thought,  
perception, emotion and memory as well as advanced motor function." [GO\_REF

15570 Pathogen[ Q2Q067] interacts with 3 human partners:{Q33E94;P08151;Q95613}

15571 Pathogen[ P0C214] interacts with 3 human partners:{P08151;Q95613;Q33E94}

15572 Pathogen[ P03346] interacts with 3 human partners:{Q33E94;Q95613;P08151}

15573 Pathogen[ Q85601] interacts with 3 human partners:{P08151;Q33E94;Q95613}

15574 Pathogen[ P14079] interacts with 2 human partners:{P08151;Q95613}

15575 Pathogen[ P03383] interacts with 2 human partners:{Q33E94;Q95613}

15576 Pathogen[ P03410] interacts with 2 human partners:{Q95613;Q33E94}

15577 Pathogen[ P14075] interacts with 2 human partners:{Q33E94;Q95613}

15578 Pathogen[ P0C206] interacts with 3 human partners:{Q95613;Q33E94;P08151}

15579 Pathogen[ P03363] interacts with 3 human partners:{P08151;Q95613;Q33E94}

15580 [Cluster 1417]GO:0044030+P biological\_process [name] regulation of DNA methylation  
[def] "Any process that modulates the frequency, rate or extent of the covalent transfer  
of a methyl group to either N-6 of adenine or C-5 or N-4 of cytosine." [GOC

15581 Pathogen[ Q2Q067] interacts with 1 human partners:{Q99549}

15582 Pathogen[ P0C214] interacts with 1 human partners:{Q99549}

15583 Pathogen[ P03346] interacts with 1 human partners:{Q99549}

15584 Pathogen[ Q85601] interacts with 1 human partners:{Q99549}

15585 Pathogen[ P14079] interacts with 1 human partners:{Q99549}

15586 Pathogen[ P03383] interacts with 1 human partners:{Q99549}

15587 Pathogen[ P03410] interacts with 1 human partners:{Q99549}

15588 Pathogen[ P14075] interacts with 1 human partners:{Q99549}

15589 Pathogen[ P0C206] interacts with 1 human partners:{Q99549}

15590 Pathogen[ P03363] interacts with 1 human partners:{Q99549}  
15591 [Cluster 1418]GO:0050999+P biological\_process [name] regulation of nitric-oxide synthase activity [def] "Any process that modulates the activity of the enzyme nitric-oxide synthase." [GOC  
15592 Pathogen[ Q2Q067] interacts with 8 human partners:{P31749;P30793;P07900;O00401;P29474;Q03393;P30047;Q9Y314}  
15593 Pathogen[ P0C214] interacts with 11 human partners:{P29474;O75608;P35270;P00374;Q03393;P30793;Q8IVI9;O00401;P30047;P31749;Q9Y314}  
15594 Pathogen[ P03346] interacts with 10 human partners:{O75608;P07900;P29474;Q8IVI9;Q03393;P30047;P31749;O75052;O00401;Q9Y314}  
15595 Pathogen[ Q85601] interacts with 8 human partners:{O00401;P31749;P30793;P30047;Q8IVI9;P07900;P29474;Q9Y314}  
15596 Pathogen[ P14079] interacts with 9 human partners:{P00374;Q9Y314;O75608;P30793;Q8IVI9;P07900;Q03393;P30047;O00401}  
15597 Pathogen[ P03383] interacts with 6 human partners:{P29474;P31749;P07900;O00401;P30047;Q9Y314}  
15598 Pathogen[ P03410] interacts with 12 human partners:{P30047;P00374;Q8IVI9;O00401;P31749;P07900;P30793;P29474;O75608;O75052;Q9Y314;Q03393}  
15599 Pathogen[ P14075] interacts with 7 human partners:{P29474;P07900;P31749;O00401;P30047;P30793;Q9Y314}  
15600 Pathogen[ P0C206] interacts with 10 human partners:{P31749;O75608;P30793;P30047;P07900;O00401;P29474;Q03393;Q8IVI9;Q9Y314}  
15601 Pathogen[ P03363] interacts with 7 human partners:{P29474;P07900;Q8IVI9;P31749;O00401;P30047;Q9Y314}  
15602 [Cluster 1419]GO:0015986+P biological\_process [name] ATP synthesis coupled proton transport [def] "The transport of protons across a membrane to generate an electrochemical gradient (proton-motive force) that powers ATP synthesis." [ISBN  
15603 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9Y2B5;P24539}  
15604 Pathogen[ P0C214] interacts with 3 human partners:{Q9Y2B5;P36542;P24539}  
15605 Pathogen[ P03346] interacts with 2 human partners:{P24539;Q9Y2B5}  
15606 Pathogen[ Q85601] interacts with 2 human partners:{P24539;Q9Y2B5}  
15607 Pathogen[ P14079] interacts with 10 human partners:{P36542;P25705;P56385;Q5VTU8;Q7Z4Y8;P03928;Q9Y2B5;O75964;P56381;P24539}  
15608 Pathogen[ P03383] interacts with 2 human partners:{Q9Y2B5;P24539}  
15609 Pathogen[ P03410] interacts with 11 human partners:{P36542;P25705;Q9Y2B5;P56385;P56381;Q5VTU8;P03928;P24539;O75964;P18859;Q7Z4Y8}  
15610 Pathogen[ P14075] interacts with 3 human partners:{P24539;P56385;Q9Y2B5}  
15611 Pathogen[ P0C206] interacts with 5 human partners:{P36542;Q9Y2B5;P24539;P56381;P56385}  
15612 Pathogen[ P03363] interacts with 1 human partners:{Q9Y2B5}  
15613 [Cluster 1420]GO:2000346+P biological\_process [name] negative regulation of hepatocyte proliferation [def] "Any process that stops, prevents or reduces the frequency, rate or extent of hepatocyte proliferation." [GOC  
15614 Pathogen[ Q2Q067] interacts with 1 human partners:{Q969H0}  
15615 Pathogen[ P0C214] interacts with 1 human partners:{Q969H0}  
15616 Pathogen[ P03346] interacts with 1 human partners:{Q969H0}  
15617 Pathogen[ Q85601] interacts with 1 human partners:{Q969H0}  
15618 Pathogen[ P14079] interacts with 1 human partners:{Q969H0}  
15619 Pathogen[ P03383] interacts with 1 human partners:{Q969H0}  
15620 Pathogen[ P03410] interacts with 1 human partners:{Q969H0}  
15621 Pathogen[ P14075] interacts with 1 human partners:{Q969H0}  
15622 Pathogen[ P0C206] interacts with 1 human partners:{Q969H0}  
15623 Pathogen[ P03363] interacts with 1 human partners:{Q969H0}  
15624 [Cluster 1421]GO:0061084+P biological\_process [name] negative regulation of protein refolding [def] "Any process that decreases the rate, frequency, or extent of protein refolding. Protein refolding is the process carried out by a cell that restores the biological activity of an unfolded or misfolded protein, using helper proteins such as chaperones." [GOC  
15625 Pathogen[ Q2Q067] interacts with 1 human partners:{P50502}  
15626 Pathogen[ P0C214] interacts with 1 human partners:{P50502}  
15627 Pathogen[ P03346] interacts with 1 human partners:{P50502}  
15628 Pathogen[ Q85601] interacts with 1 human partners:{P50502}  
15629 Pathogen[ P14079] interacts with 2 human partners:{Q9UL15;P50502}  
15630 Pathogen[ P03383] interacts with 1 human partners:{P50502}  
15631 Pathogen[ P03410] interacts with 2 human partners:{P50502;Q9UL15}  
15632 Pathogen[ P14075] interacts with 1 human partners:{P50502}  
15633 Pathogen[ P0C206] interacts with 1 human partners:{P50502}  
15634 Pathogen[ P03363] interacts with 1 human partners:{P50502}  
15635 [Cluster 1422]GO:0051574+P biological\_process [name] positive regulation of histone H3-K9 methylation [def] "Any process that activates or increases the frequency, rate or extent of the covalent addition of a methyl group to the lysine at position 9 of histone H3." [GOC  
15636 Pathogen[ Q2Q067] interacts with 2 human partners:{Q5VTD9;P10242}

15637 Pathogen[ P0C214] interacts with 2 human partners:{Q5VTD9;P10242}  
15638 Pathogen[ P03346] interacts with 2 human partners:{P10242;Q5VTD9}  
15639 Pathogen[ Q85601] interacts with 2 human partners:{P10242;Q5VTD9}  
15640 Pathogen[ P14079] interacts with 2 human partners:{Q5VTD9;P10242}  
15641 Pathogen[ P03383] interacts with 1 human partners:{P10242}  
15642 Pathogen[ P03410] interacts with 2 human partners:{P10242;Q5VTD9}  
15643 Pathogen[ P14075] interacts with 1 human partners:{P10242}  
15644 Pathogen[ P0C206] interacts with 2 human partners:{P10242;Q5VTD9}  
15645 Pathogen[ P03363] interacts with 2 human partners:{Q5VTD9;P10242}  
15646 [Cluster 1423]GO:0090104+P biological\_process [name] pancreatic E cell differentiation  
[def] "The process in which relatively unspecialized cells acquire specialized  
structural and functional features of a pancreatic E cell. A pancreatic E cell is a cell  
in the pancreas that secretes ghrelin." [GOC  
15647 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8HWS3}  
15648 Pathogen[ P0C214] interacts with 1 human partners:{Q8HWS3}  
15649 Pathogen[ P03346] interacts with 1 human partners:{Q8HWS3}  
15650 Pathogen[ Q85601] interacts with 1 human partners:{Q8HWS3}  
15651 Pathogen[ P14079] interacts with 1 human partners:{Q8HWS3}  
15652 Pathogen[ P03383] interacts with 1 human partners:{Q8HWS3}  
15653 Pathogen[ P03410] interacts with 1 human partners:{Q8HWS3}  
15654 Pathogen[ P14075] interacts with 1 human partners:{Q8HWS3}  
15655 Pathogen[ P0C206] interacts with 1 human partners:{Q8HWS3}  
15656 Pathogen[ P03363] interacts with 1 human partners:{Q8HWS3}  
15657 [Cluster 1424]GO:0055086+P biological\_process [name] nucleobase-containing small  
molecule metabolic process [def] "The cellular chemical reactions and pathways  
involving a nucleobase-containing small molecule  
15658 Pathogen[ Q2Q067] interacts with 9 human  
partners:{P22392;P35754;P07741;P33316;P31350;Q7LG56;P10599;P04818;P11172}  
15659 Pathogen[ P0C214] interacts with 23 human  
partners:{Q96P26;P35754;O95045;P04818;P31350;P23919;P49902;P07741;P33316;P11172;Q8TC  
D5;Q16881;Q16831;Q9NRF8;P23921;P10599;P22392;P17812;Q7LG56;Q9Y2T3;P31939;P30566;Q9H0  
P0}  
15660 Pathogen[ P03346] interacts with 8 human  
partners:{P31350;Q7LG56;P22392;P35754;P10599;P11172;P07741;P33316}  
15661 Pathogen[ Q85601] interacts with 10 human  
partners:{P11172;P33316;P31350;P10599;Q7LG56;O95045;P22392;P07741;P35754;Q9H0P0}  
15662 Pathogen[ P14079] interacts with 24 human  
partners:{Q9H0P0;P22234;Q96P26;Q8TCD5;P17812;P31939;Q16831;P11172;P31350;Q9Y2T3;P333  
16;Q7LG56;Q9NRF8;P23919;P35754;P22392;O95045;P49902;P49915;Q9BXI3;P10599;O15067;P048  
18;P07741}  
15663 Pathogen[ P03383] interacts with 6 human  
partners:{P22392;P10599;P31350;P07741;P33316;P11172}  
15664 Pathogen[ P03410] interacts with 25 human  
partners:{O95045;Q96P26;P10599;P31350;P35754;P49915;P07741;Q9NRF8;P17812;Q16831;P111  
72;P23919;P22234;Q9Y2T3;P33316;Q9BXI3;P04818;P30566;O15067;P31939;Q8TCD5;Q9H0P0;P239  
21;Q7LG56;P49902}  
15665 Pathogen[ P14075] interacts with 8 human  
partners:{P31350;P49902;P11172;O95045;P33316;P07741;P22392;P10599}  
15666 Pathogen[ P0C206] interacts with 15 human  
partners:{P33316;Q16831;P22392;Q7LG56;P35754;P49902;P31939;O95045;P11172;Q8TCD5;Q9H0  
P0;P04818;P07741;P10599;P31350}  
15667 Pathogen[ P03363] interacts with 4 human partners:{P33316;P07741;P11172;P35754}  
15668 [Cluster 1425]GO:0031665+P biological\_process [name] negative regulation of  
lipopolysaccharide-mediated signaling pathway [def] "Any process that stops, prevents,  
or reduces the frequency, rate or extent of signaling in response to detection of  
lipopolysaccharide." [GOC  
15669 Pathogen[ Q2Q067] interacts with 2 human partners:{Q8WUQ7;Q9UBC1}  
15670 Pathogen[ P0C214] interacts with 1 human partners:{Q9UBC1}  
15671 Pathogen[ P03346] interacts with 3 human partners:{O75626;Q9UBC1;Q8WUQ7}  
15672 Pathogen[ Q85601] interacts with 2 human partners:{O75626;Q9UBC1}  
15673 Pathogen[ P14079] interacts with 3 human partners:{O75626;Q9UBC1;Q8WUQ7}  
15674 Pathogen[ P03383] interacts with 2 human partners:{Q9UBC1;Q8WUQ7}  
15675 Pathogen[ P03410] interacts with 3 human partners:{Q8WUQ7;Q9UBC1;O75626}  
15676 Pathogen[ P14075] interacts with 2 human partners:{Q9UBC1;Q8WUQ7}  
15677 Pathogen[ P0C206] interacts with 3 human partners:{Q9UBC1;O75626;Q8WUQ7}  
15678 Pathogen[ P03363] interacts with 3 human partners:{Q8WUQ7;O75626;Q9UBC1}  
15679 [Cluster 1426]GO:0048706+P biological\_process [name] embryonic skeletal system  
development [def] "The process, occurring during the embryonic phase, whose specific  
outcome is the progression of the skeleton over time, from its formation to the mature  
structure." [GOC  
15680 Pathogen[ Q2Q067] interacts with 13 human  
partners:{O43365;P09067;P31274;P28356;Q02447;P17482;P08047;P35227;Q00444;P20719;P352  
26;Q07687;P40424}  
15681 Pathogen[ P0C214] interacts with 8 human  
partners:{P40424;P35226;O43365;P35227;P17482;Q07687;Q02447;P08047}  
15682 Pathogen[ P03346] interacts with 20 human

15683 partners: {P35226;P35227;P56177;P23759;P31274;P20719;P08047;O43365;P28356;P78367;P09630;P31267;Q9GZZ0;P40424;O75398;Q02447;P09067;P17509;Q00444;P17482}  
Pathogen[ Q85601] interacts with 11 human  
partners: {O75398;P08047;P40424;Q02447;P31274;P35226;O43365;Q00444;Q07687;P17482;P35227}

15684 Pathogen[ P14079] interacts with 9 human  
partners: {Q02447;P54826;P31274;O43365;Q00444;P35226;Q07687;P35227;Q5T5P2}

15685 Pathogen[ P03383] interacts with 8 human  
partners: {P35227;P08047;Q07687;P40424;P17482;O43365;Q02447;P35226}

15686 Pathogen[ P03410] interacts with 11 human  
partners: {P17482;P31274;Q02447;P35227;Q07687;P54826;P08047;P35226;P40424;O43365;Q5T5P2}

15687 Pathogen[ P14075] interacts with 9 human  
partners: {P17482;P40424;O43365;Q07687;Q02447;P35226;P54826;P35227;P08047}

15688 Pathogen[ P0C206] interacts with 17 human  
partners: {Q07687;Q00444;O43365;P09067;P35226;P40424;P08047;P17482;Q02447;Q5T5P2;P31274;O75398;P28356;P20719;P54826;P56177;P35227}

15689 Pathogen[ P03363] interacts with 22 human  
partners: {Q5T5P2;P09067;P31274;P35227;P56177;P31267;O43365;Q02447;P28356;P20719;P17509;Q00444;Q9GZZ0;P35226;P23759;P17482;P78367;O75398;P40424;P08047;P09630;Q07687}

15690 [Cluster 1427]GO:0007155+P biological\_process [name] cell adhesion [def] "The attachment of a cell, either to another cell or to an underlying substrate such as the extracellular matrix, via cell adhesion molecules." [GOC

15691 Pathogen[ Q2Q067] interacts with 31 human  
partners: {P22392;O14786;Q86WQ0;Q13352;Q92797;Q12815;Q14511;P56945;Q9H307;Q9NY61;Q9Y2D8;Q99569;O60711;Q96IF1;Q9UQB3;Q96F07;Q15654;Q12904;P08865;Q02410;Q9NVD7;O60504;Q13895;Q93052;P63000;P35579;Q99689;Q12816;P61586;Q14129;O60716}

15692 Pathogen[ P0C214] interacts with 29 human  
partners: {P63000;O14786;Q12904;Q12815;P56945;O60716;Q9Y2D8;Q92797;P61586;Q96F07;Q9H307;Q12816;P08865;Q14129;Q9NY61;Q9UQB3;Q15124;Q13352;Q99689;Q15654;O60711;Q14511;Q13895;Q02410;O60504;Q9NVD7;P22392;Q7L5Y9;Q86WQ0}

15693 Pathogen[ P03346] interacts with 43 human  
partners: {Q96AC1;Q99828;Q13895;Q14511;Q96RT1;Q99569;O60716;Q13449;Q96F07;P35579;Q12815;Q9Y2D8;Q99689;Q9H307;O75970;Q13835;Q96IF1;Q14129;Q86WQ0;Q15942;O00192;P55196;Q02410;Q12816;Q9UQB3;Q12904;P08865;P56945;Q9Y4G6;Q9UI47;Q9NY61;P22392;Q9NVD7;Q92797;A6NDV4;O60504;Q93052;Q15654;O60711;P63000;O14786;Q13352;P61586}

15694 Pathogen[ Q85601] interacts with 34 human  
partners: {Q99569;Q9NVD7;Q96RT1;Q96F07;Q9NY61;Q9H307;P35579;Q15654;Q7L5Y9;Q93052;P63000;Q12815;O14786;Q9UQB3;O60716;Q86WQ0;O60711;Q13352;P56945;Q15124;Q9Y2D8;Q15942;Q12816;P22392;Q99689;P61586;Q92797;Q96IF1;Q02410;O60504;Q13895;Q14129;Q14511;P08865}

15695 Pathogen[ P14079] interacts with 50 human  
partners: {P35579;Q14242;Q96KR4;Q12815;Q9P266;A6NDV4;Q14210;Q9NY61;Q9NP84;Q08722;Q9UI47;Q93052;Q02410;Q86WQ0;Q13835;Q9UQB3;Q12816;O60504;Q7L5Y9;Q15124;Q14129;Q99828;O60711;Q9Y4G6;Q9H307;Q92797;Q96RT1;Q96GC9;Q99689;P22392;Q9UEE9;Q96IF1;Q99569;Q96AC1;P61586;Q43294;Q92982;Q96F07;Q9UKB5;P08865;P49023;Q13895;Q12904;Q9Y2D8;Q96FX8;Q9NVD7;Q13352;O60716;O75970;Q15942}

15696 Pathogen[ P03383] interacts with 26 human  
partners: {O60716;Q9NY61;P56945;Q12904;Q14129;Q12815;Q99689;P22392;Q92797;P63000;Q13352;Q15654;Q13895;Q9UQB3;Q86WQ0;P61586;Q12816;P08865;Q96F07;Q14511;O60711;Q9H307;O60504;Q02410;P35579;Q9Y2D8}

15697 Pathogen[ P03410] interacts with 52 human  
partners: {O60711;O14786;Q14129;Q96RT1;Q96GC9;P63000;Q14242;Q12815;Q14210;O60716;Q9NY61;O43294;P35579;Q15124;Q86WQ0;Q9UEE9;A6NDV4;Q13835;Q13895;Q02410;Q12904;Q15654;P08865;Q96IF1;O75970;Q93052;Q99828;Q96KR4;Q14511;Q96FX8;Q92797;P61586;Q15942;Q08722;Q9NZ67;Q9P266;Q9Y4G6;O60504;P56945;Q9UI47;Q9UQB3;Q9NVD7;Q12816;Q96F07;Q9NP84;Q13449;Q7L5Y9;Q15517;Q13352;Q9H307;Q99569;Q99689}

15698 Pathogen[ P14075] interacts with 30 human  
partners: {Q9H307;Q92797;Q96F07;Q14511;Q9P266;Q14129;Q02410;Q96FX8;P08865;Q12815;Q12816;Q9NY61;Q9Y2D8;Q7L5Y9;Q9UQB3;Q12904;P35579;P61586;Q15654;P63000;Q9UEE9;O60711;O60504;Q13352;O60716;Q86WQ0;P22392;P56945;Q99689;Q13895}

15699 Pathogen[ P0C206] interacts with 45 human  
partners: {O60716;Q96RT1;Q99828;Q96F07;O60504;Q12815;Q96KR4;P22392;Q96FX8;Q9NVD7;Q96IF1;P08865;Q9UEE9;Q9P266;Q9H307;Q15654;Q13895;Q9UI47;Q9Y2D8;Q15124;O14786;A6NDV4;P61586;Q99689;Q92797;Q7L5Y9;P63000;Q13835;P55196;Q99569;Q15942;Q12816;Q13352;P35579;O43294;Q86WQ0;Q14129;P56945;O60711;Q9NY61;Q9UQB3;Q93052;Q14511;Q12904;Q02410}

15700 Pathogen[ P03363] interacts with 37 human  
partners: {Q15654;Q96RT1;P08865;Q13835;Q9UI47;P35579;O14786;Q86WQ0;Q9H307;Q9Y2D8;Q96F07;Q8N302;Q99828;Q99569;O75970;P63000;Q93052;Q9Y4G6;Q92797;Q96IF1;Q13895;Q9NY61;Q14511;Q02410;Q14129;P56945;Q96AC1;Q9NVD7;O00192;Q9UQB3;Q13352;O60716;Q15942;O60711;Q12815;Q99689;Q12816}

15701 [Cluster 1428]GO:0050796+P biological\_process [name] regulation of insulin secretion [def] "Any process that modulates the frequency, rate or extent of the regulated release of insulin." [GOC

15702 Pathogen[ Q2Q067] interacts with 7 human  
partners: {Q13562;P48380;Q8HWS3;P36956;P29966;P11166;P20823}

15703 Pathogen[ P0C214] interacts with 5 human

15704 partners:{P29966;P11166;P11168;P48380;Q8HWS3}  
Pathogen[ P03346] interacts with 8 human

15705 partners:{P36956;P48380;P20823;Q8HWS3;P11166;P29966;Q92481;Q13562}  
Pathogen[ Q85601] interacts with 8 human

15706 partners:{P11168;Q13562;P11166;P36956;P29966;P48380;P20823;Q8HWS3}  
Pathogen[ P14079] interacts with 7 human

15707 partners:{P24588;P16298;P48380;P11166;Q8HWS3;P29966;P36956}  
Pathogen[ P03383] interacts with 4 human partners:{Q8HWS3;P48380;P11168;P29966}

15708 partners:{P36956;P11166;P05141;P11168;P48380;P29966;P24588;Q8HWS3}  
Pathogen[ P03410] interacts with 8 human

15709 partners:{P48380;P29966;P11168;Q8HWS3}  
Pathogen[ P14075] interacts with 4 human partners:{P48380;P29966;P11168;Q8HWS3}

15710 partners:{Q8HWS3;P36956;P48380;P11166;P11168;P20823;Q13562;P29966}  
Pathogen[ P0C206] interacts with 8 human

15711 Pathogen[ P03363] interacts with 4 human partners:{P29966;P48380;Q8HWS3;P11166}

15712 [Cluster 1429]GO:0009435+P biological\_process [name] NAD biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of nicotinamide adenine dinucleotide, a coenzyme present in most living cells and derived from the B vitamin nicotinic acid\_biosynthesis may be of either the oxidized form, NAD, or the reduced form, NADH." [GOC  
15713 Pathogen[ Q2Q067] interacts with 3 human partners:{Q6XQN6;Q9HAN9;Q16719}

15714 Pathogen[ P0C214] interacts with 7 human  
partners:{Q96T66;Q9HAN9;Q6XQN6;Q9BZQ4;Q15274;P43490;Q16719}

15715 Pathogen[ P03346] interacts with 3 human partners:{Q9HAN9;Q6XQN6;Q16719}

15716 Pathogen[ Q85601] interacts with 3 human partners:{Q16719;Q9HAN9;Q6XQN6}

15717 Pathogen[ P14079] interacts with 7 human  
partners:{P43490;Q16719;Q9BZQ4;Q6XQN6;Q9HAN9;Q6IA69;Q15274}

15718 Pathogen[ P03383] interacts with 2 human partners:{Q16719;Q9HAN9}

15719 Pathogen[ P03410] interacts with 7 human  
partners:{Q15274;Q16719;Q6XQN6;P43490;Q9HAN9;Q6IA69;Q9BZQ4}

15720 Pathogen[ P14075] interacts with 3 human partners:{Q16719;Q9HAN9;Q6XQN6}

15721 Pathogen[ P0C206] interacts with 6 human  
partners:{Q6XQN6;P43490;Q16719;Q9BZQ4;Q9HAN9;Q15274}

15722 Pathogen[ P03363] interacts with 2 human partners:{Q6XQN6;Q9HAN9}

15723 [Cluster 1430]GO:2000791+P biological\_process [name] negative regulation of mesenchymal cell proliferation involved in lung development [def] "Any process that stops, prevents or reduces the frequency, rate or extent of mesenchymal cell proliferation involved in lung development." [PMID  
15724 Pathogen[ Q2Q067] interacts with 1 human partners:{000712}

15725 Pathogen[ P0C214] interacts with 1 human partners:{000712}

15726 Pathogen[ P03346] interacts with 1 human partners:{000712}

15727 Pathogen[ Q85601] interacts with 1 human partners:{000712}

15728 Pathogen[ P14079] interacts with 1 human partners:{000712}

15729 Pathogen[ P03383] interacts with 1 human partners:{000712}

15730 Pathogen[ P03410] interacts with 1 human partners:{000712}

15731 Pathogen[ P14075] interacts with 1 human partners:{000712}

15732 Pathogen[ P0C206] interacts with 1 human partners:{000712}

15733 Pathogen[ P03363] interacts with 1 human partners:{000712}

15734 [Cluster 1431]GO:0090073+P biological\_process [name] positive regulation of protein homodimerization activity [def] "Any process that increases the frequency, rate or extent of protein homodimerization, interacting selectively with an identical protein to form a homodimer." [GOC  
15735 Pathogen[ Q2Q067] interacts with 2 human partners:{Q12933;Q96SW2}

15736 Pathogen[ P0C214] interacts with 2 human partners:{Q12933;Q96SW2}

15737 Pathogen[ P03346] interacts with 2 human partners:{Q96SW2;Q9BUZ4}

15738 Pathogen[ Q85601] interacts with 2 human partners:{Q96SW2;Q12933}

15739 Pathogen[ P14079] interacts with 4 human partners:{Q06413;Q9BUZ4;Q12933;Q96SW2}

15740 Pathogen[ P03383] interacts with 2 human partners:{Q96SW2;Q12933}

15741 Pathogen[ P03410] interacts with 2 human partners:{Q96SW2;Q12933}

15742 Pathogen[ P14075] interacts with 2 human partners:{Q96SW2;Q12933}

15743 Pathogen[ P0C206] interacts with 3 human partners:{Q12933;Q9BUZ4;Q96SW2}

15744 Pathogen[ P03363] interacts with 3 human partners:{Q12933;Q96SW2;Q9BUZ4}

15745 [Cluster 1432]GO:0010033+P biological\_process [name] response to organic substance [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an organic substance stimulus." [GOC  
15746 Pathogen[ Q2Q067] interacts with 14 human  
partners:{P30153;P24385;P07737;O00267;P40763;P18887;Q04206;P67775;P27797;P55212;P08697;P25815;P38936;P78543}

15747 Pathogen[ P0C214] interacts with 17 human  
partners:{P50440;P08697;P30153;P78543;O00267;P55212;Q04206;P24385;P38936;P14618;P18887;P67775;P25815;P05412;P27797;P40763;P16220}

15748 Pathogen[ P03346] interacts with 17 human  
partners:{P05412;P24385;P16220;P25815;Q9NS18;Q04206;P67775;P55212;P30153;P51843;O00267;P27797;P18887;P07737;P38936;P40763;P78543}

15749 Pathogen[ Q85601] interacts with 17 human  
partners:{P24385;P18887;P40763;P30153;P27797;P08697;P07737;P14618;P78543;P16220;Q042



15750 Pathogen[ P14079] interacts with 13 human partners: {P78543;P07737;P55212;P25815;P08758;P38936;P18887;P11686;Q13510;P30153;P05412;P50440;O00267}

15751 Pathogen[ P03383] interacts with 14 human partners: {P25815;P55212;P16220;P08697;P24385;P30153;P67775;P07737;O00267;P78543;Q04206;P18887;P27797;P05412}

15752 Pathogen[ P03410] interacts with 19 human partners: {Q04206;P18887;O00267;P25815;P24385;Q13510;P38936;P11686;P08697;P16220;P05412;P78543;P30153;P67775;P55212;P50440;P40763;P07737;P27797}

15753 Pathogen[ P14075] interacts with 16 human partners: {Q04206;P05412;P55212;Q13510;P07737;P78543;P27797;P08697;P67775;P30153;P16220;P24385;P25815;O00267;P50440;P18887}

15754 Pathogen[ P0C206] interacts with 19 human partners: {P27797;Q9NS18;P16220;P30153;P05412;P55212;P67775;P25815;P50440;Q04206;P38936;O00267;P40763;P07737;P18887;P14618;P08697;P78543;P24385}

15755 Pathogen[ P03363] interacts with 13 human partners: {P18887;Q04206;P16220;P78543;O00267;P25815;P55212;P27797;P24385;P05412;P30153;P67775;P07737}

15756 [Cluster 1433]GO:0009267+P biological\_process [name] cellular response to starvation [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of deprivation of nourishment." [GOC

15757 Pathogen[ Q2Q067] interacts with 4 human partners: {P36956;P15172;P61244;Q8NEZ5}

15758 Pathogen[ P0C214] interacts with 3 human partners: {P61244;P15172;Q8NDV7}

15759 Pathogen[ P03346] interacts with 5 human partners: {P36956;Q8NEZ5;P15172;Q12778;P61244}

15760 Pathogen[ Q85601] interacts with 4 human partners: {P15172;P36956;P61244;Q8NEZ5}

15761 Pathogen[ P14079] interacts with 4 human partners: {Q8NEZ5;P36956;P61244;Q8NDV7}

15762 Pathogen[ P03383] interacts with 3 human partners: {P15172;Q8NEZ5;P61244}

15763 Pathogen[ P03410] interacts with 4 human partners: {P36956;Q8NDV7;P61244;Q8NEZ5}

15764 Pathogen[ P14075] interacts with 3 human partners: {P61244;P15172;Q8NEZ5}

15765 Pathogen[ P0C206] interacts with 5 human partners: {P36956;Q8NDV7;P61244;P15172;Q8NEZ5}

15766 Pathogen[ P03363] interacts with 4 human partners: {Q8NEZ5;Q8NDV7;P61244;P15172}

15767 [Cluster 1434]GO:0043517+P biological\_process [name] positive regulation of DNA damage response, signal transduction by p53 class mediator [def] "Any process that activates, maintains or increases the rate of the cascade of processes induced by the cell cycle regulator phosphoprotein p53, or an equivalent protein, in response to the detection of DNA damage." [GOC

15768 Pathogen[ Q2Q067] interacts with 6 human partners: {Q14526;Q13794;Q8N726;Q15327;O43324;Q7Z699}

15769 Pathogen[ P0C214] interacts with 6 human partners: {Q14526;Q15327;Q7Z699;Q8N726;Q13794;O43324}

15770 Pathogen[ P03346] interacts with 6 human partners: {Q15327;Q14526;O43324;Q7Z699;Q8N726;Q13794}

15771 Pathogen[ Q85601] interacts with 6 human partners: {O43324;Q14526;Q8N726;Q15327;Q7Z699;Q13794}

15772 Pathogen[ P14079] interacts with 6 human partners: {Q8N726;Q7Z699;Q13794;Q15327;P28360;O43324}

15773 Pathogen[ P03383] interacts with 5 human partners: {Q14526;O43324;Q15327;Q13794;Q8N726}

15774 Pathogen[ P03410] interacts with 6 human partners: {Q14526;Q7Z699;Q8N726;Q13794;Q15327;O43324}

15775 Pathogen[ P14075] interacts with 5 human partners: {Q14526;Q15327;Q13794;O43324;Q8N726}

15776 Pathogen[ P0C206] interacts with 6 human partners: {O43324;Q8N726;Q15327;Q14526;Q7Z699;Q13794}

15777 Pathogen[ P03363] interacts with 6 human partners: {Q14526;Q13794;Q15327;Q7Z699;Q8N726;O43324}

15778 [Cluster 1435]GO:0019363+P biological\_process [name] pyridine nucleotide biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of a pyridine nucleotide, a nucleotide characterized by a pyridine derivative as a nitrogen base." [GOC

15779 Pathogen[ Q2Q067] interacts with 3 human partners: {Q6XQN6;Q9HAN9;Q16719}

15780 Pathogen[ P0C214] interacts with 7 human partners: {Q96T66;Q9HAN9;Q6XQN6;Q9BZQ4;Q15274;P43490;Q16719}

15781 Pathogen[ P03346] interacts with 3 human partners: {Q9HAN9;Q6XQN6;Q16719}

15782 Pathogen[ Q85601] interacts with 3 human partners: {Q16719;Q9HAN9;Q6XQN6}

15783 Pathogen[ P14079] interacts with 6 human partners: {P43490;Q16719;Q9BZQ4;Q6XQN6;Q9HAN9;Q15274}

15784 Pathogen[ P03383] interacts with 2 human partners: {Q16719;Q9HAN9}

15785 Pathogen[ P03410] interacts with 6 human partners: {Q15274;Q16719;Q6XQN6;P43490;Q9HAN9;Q9BZQ4}

15786 Pathogen[ P14075] interacts with 3 human partners: {Q16719;Q9HAN9;Q6XQN6}

15787 Pathogen[ P0C206] interacts with 6 human

partners:{Q6XQN6;P43490;Q16719;Q9BZQ4;Q9HAN9;Q15274}

15788 Pathogen[ P03363] interacts with 2 human partners:{Q6XQN6;Q9HAN9}

15789 [Cluster 1436]GO:0035414+P biological\_process [name] negative regulation of catenin import into nucleus [def] "Any process that decreases the rate, frequency or extent of the directed movement of a catenin protein from the cytoplasm into the nucleus." [GOC

15790 Pathogen[ Q2Q067] interacts with 3 human partners:{P50402;Q9GZV5;O95996}

15791 Pathogen[ P0C214] interacts with 2 human partners:{Q9GZV5;P50402}

15792 Pathogen[ P03346] interacts with 3 human partners:{Q9GZV5;O95996;P50402}

15793 Pathogen[ Q85601] interacts with 3 human partners:{Q9GZV5;P50402;O95996}

15794 Pathogen[ P14079] interacts with 4 human partners:{Q9GZV5;Q96B18;O95996;P50402}

15795 Pathogen[ P03383] interacts with 2 human partners:{P50402;Q9GZV5}

15796 Pathogen[ P03410] interacts with 4 human partners:{Q96B18;Q9GZV5;O95996;P50402}

15797 Pathogen[ P14075] interacts with 2 human partners:{Q9GZV5;P50402}

15798 Pathogen[ P0C206] interacts with 4 human partners:{P50402;O95996;Q96B18;Q9GZV5}

15799 Pathogen[ P03363] interacts with 3 human partners:{O95996;Q9GZV5;P50402}

15800 [Cluster 1437]GO:0071257+P biological\_process [name] cellular response to electrical stimulus [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an electrical stimulus." [GOC

15801 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13127}

15802 Pathogen[ P0C214] interacts with 2 human partners:{Q9UM54;Q13127}

15803 Pathogen[ P03346] interacts with 1 human partners:{Q13127}

15804 Pathogen[ Q85601] interacts with 2 human partners:{Q13127;Q9UM54}

15805 Pathogen[ P14079] interacts with 3 human partners:{O75781;Q9UM54;Q13127}

15806 Pathogen[ P03383] interacts with 1 human partners:{Q13127}

15807 Pathogen[ P03410] interacts with 3 human partners:{O75781;Q9UM54;Q13127}

15808 Pathogen[ P14075] interacts with 1 human partners:{Q13127}

15809 Pathogen[ P0C206] interacts with 2 human partners:{Q9UM54;Q13127}

15810 Pathogen[ P03363] interacts with 1 human partners:{Q13127}

15811 [Cluster 1438]GO:0010907+P biological\_process [name] positive regulation of glucose metabolic process [def] "Any process that increases the rate, frequency or extent of glucose metabolism. Glucose metabolic processes are the chemical reactions and pathways involving glucose, the aldohexose gluco-hexose." [GOC

15812 Pathogen[ Q2Q067] interacts with 2 human partners:{P31749;Q13794}

15813 Pathogen[ P0C214] interacts with 2 human partners:{Q13794;P31749}

15814 Pathogen[ P03346] interacts with 2 human partners:{P31749;Q13794}

15815 Pathogen[ Q85601] interacts with 2 human partners:{P31749;Q13794}

15816 Pathogen[ P14079] interacts with 2 human partners:{P31751;Q13794}

15817 Pathogen[ P03383] interacts with 2 human partners:{P31749;Q13794}

15818 Pathogen[ P03410] interacts with 2 human partners:{P31749;Q13794}

15819 Pathogen[ P14075] interacts with 2 human partners:{P31749;Q13794}

15820 Pathogen[ P0C206] interacts with 2 human partners:{P31749;Q13794}

15821 Pathogen[ P03363] interacts with 2 human partners:{Q13794;P31749}

15822 [Cluster 1439]GO:0001955+P biological\_process [name] blood vessel maturation [def] "A developmental process, independent of morphogenetic (shape) change, that is required for a blood vessel to attain its fully functional state." [GOC

15823 Pathogen[ Q2Q067] interacts with 1 human partners:{P12980}

15824 Pathogen[ P0C214] interacts with 1 human partners:{P12980}

15825 Pathogen[ P03346] interacts with 1 human partners:{P12980}

15826 Pathogen[ Q85601] interacts with 1 human partners:{P12980}

15827 Pathogen[ P14079] interacts with 1 human partners:{P12980}

15828 Pathogen[ P03383] interacts with 1 human partners:{P12980}

15829 Pathogen[ P03410] interacts with 1 human partners:{P12980}

15830 Pathogen[ P14075] interacts with 1 human partners:{P12980}

15831 Pathogen[ P0C206] interacts with 1 human partners:{P12980}

15832 Pathogen[ P03363] interacts with 1 human partners:{P12980}

15833 [Cluster 1440]GO:0048536+P biological\_process [name] spleen development [def] "The process whose specific outcome is the progression of the spleen over time, from its formation to the mature structure. The spleen is a large vascular lymphatic organ composed of white and red pulp, involved both in hemopoietic and immune system functions." [GOC

15834 Pathogen[ Q2Q067] interacts with 6 human partners:{P20749;P17483;Q96T37;P31314;Q00653;P40424}

15835 Pathogen[ P0C214] interacts with 6 human partners:{P40424;Q00653;P31314;Q5JVF3;P20749;Q96T37}

15836 Pathogen[ P03346] interacts with 12 human partners:{P17483;Q9UBC0;P16452;O43680;P78367;P20749;P40424;P31314;Q8TAU0;Q96T37;Q00653;Q9HBU1}

15837 Pathogen[ Q85601] interacts with 5 human partners:{P40424;Q96T37;P31314;Q00653;P20749}

15838 Pathogen[ P14079] interacts with 4 human partners:{P16452;Q96T37;Q5JVF3;P20749}

15839 Pathogen[ P03383] interacts with 4 human partners:{Q00653;P40424;P20749;P31314}

15840 Pathogen[ P03410] interacts with 7 human partners:{P20749;Q96T37;P16452;P31314;Q5JVF3;Q00653;P40424}

15841 Pathogen[ P14075] interacts with 4 human partners:{P40424;P31314;Q00653;P20749}

15842 Pathogen[ P0C206] interacts with 10 human

- 15843 partners:{Q96T37;P31314;Q9UBC0;P17483;Q5JVF3;P40424;P16452;P20749;Q00653;Q8TAU0}  
Pathogen[ P03363] interacts with 11 human  
partners:{Q9UBC0;P17483;P20749;Q00653;P31314;Q96T37;P78367;P40424;P16452;Q8TAU0;Q9HB  
U1}
- 15844 [Cluster 1441]GO:0000075+P biological\_process [name] cell cycle checkpoint [def] "A  
cell cycle regulatory process that controls cell cycle progression by monitoring the  
timing and integrity of specific cell cycle events. A cell cycle checkpoint encompasses  
detection of an event or biological quality, signal transduction, and effector processes  
that delay or stop cell cycle progression in response to a defect." [GOC
- 15845 Pathogen[ Q2Q067] interacts with 101 human  
partners:{Q8NHY2;Q99460;O75832;P48556;P40306;P55036;Q99638;Q16589;P06400;O00231;O002  
33;Q9UJX3;Q9UJX5;P27694;P49959;P51665;Q99741;P28072;Q99708;O00762;A5LHX3;P35244;Q132  
57;Q9UBU7;O14757;Q13200;P25787;Q06323;O43684;Q13415;Q16531;Q9NYG5;P30304;Q9H1A4;P519  
65;P28065;O14818;P14635;Q9UJX2;P30307;Q9UM13;Q14997;P60900;Q9UL46;P61289;O96017;Q9UB  
D5;P15927;Q12834;P51668;P28062;O95067;Q9UNM6;Q8WXE1;P25788;O75419;Q92530;P25786;Q8NH  
Z8;P38936;O96020;Q16401;Q6WBX8;O00232;O75943;Q7L590;Q9H816;Q9UJX4;O43913;P28074;P257  
89;Q9Y6D9;P0CG47;Q9Y5N6;Q13416;P20618;P42771;P0CG48;P25205;P28070;Q01831;P28066;Q146  
83;Q99436;P24941;Q8TAA3;Q9UJX6;P62987;O43242;P30260;P49721;P46527;P49720;O15287;Q130  
42;Q9HAW4;Q00987;O60671;Q9BTA9;O60921;P62979}
- 15846 Pathogen[ P0C214] interacts with 104 human  
partners:{Q9UJX6;Q14997;P51665;O43684;O15287;Q13257;P25789;P55036;P30307;P28062;A5LH  
X3;P49959;O00762;Q9H816;P28065;Q8WXE1;O43913;Q7L590;Q00987;O14818;O43242;Q9UJX5;Q997  
08;P46527;P48556;Q8NHY2;P40306;P14635;Q6WBX8;Q9UBU7;Q13200;Q9UJX2;Q9HAW4;P38936;O002  
32;Q9Y5N6;P51965;P25205;O60921;Q99460;P28066;O75832;Q14566;Q9H1A4;O96017;P49720;P280  
74;P0CG48;Q9UL46;Q8NHZ8;Q12834;O95067;P15927;P25788;P24941;Q9UNM6;O00231;P42771;P352  
44;Q06323;P25786;P28072;O75943;Q8TAA3;P62987;O60671;Q14683;O75419;Q99436;Q9UJX4;Q018  
31;P0CG47;P25787;Q13416;Q9UJX3;P27694;Q9BTA9;P35998;P60900;O00233;P51668;O14757;Q996  
38;P62979;P30260;P30304;Q92530;Q9NYG5;Q16531;Q15008;Q9UBD5;Q9UM13;P28070;P06400;Q9Y6  
D9;P20618;P49721;Q99741;Q16401;O96020;P17980;Q13415;Q13042;Q16589}
- 15847 Pathogen[ P03346] interacts with 108 human  
partners:{O60921;Q9Y6D9;P25787;P28070;Q16589;P25789;P55036;O96017;O43684;Q99460;Q9UL  
46;P62987;P27694;P28072;P06400;P25788;Q9Y5N6;P28074;P49721;Q8NHY2;O96020;Q9UBD5;P352  
44;O14818;Q6WBX8;Q99708;P35250;Q99436;P24941;P30304;Q16531;P0CG48;Q16401;A5LHX3;O147  
57;Q9UBU7;Q9UM13;P28062;Q9NYG5;Q99638;P20618;P42771;O95067;O00232;P51668;Q00987;Q128  
34;O75943;P25789;O00233;Q9UJX6;Q14566;P25205;Q9HAW4;P14635;O15287;Q13042;P51965;Q9UJ  
X5;Q01831;P49720;P28065;Q14683;O00762;Q9UJX2;Q8WXE1;P60900;P33992;P25786;O00231;Q134  
15;P15927;Q9UJX3;P35249;Q8NHZ8;P61289;P49959;Q9H1A4;P62979;P28066;Q9UNM6;P33991;Q9UJ  
X4;Q8TAA3;P0CG47;Q13416;Q14997;Q13200;P48556;O60671;P51665;P38936;Q06323;P30260;O754  
19;Q9H816;P46527;P40937;Q99741;Q7L590;Q92530;O43929;O43242;O43913;P40306;Q13257;P303  
07;Q9BTA9}
- 15848 Pathogen[ Q85601] interacts with 100 human  
partners:{Q9UJX2;P28066;Q9UNM6;P60900;O43913;P55036;Q7L590;Q9UJX6;Q01831;O96017;P257  
87;Q8WXE1;P61289;Q16531;P06400;P25788;P35244;Q8NHZ8;Q99708;O75832;Q13415;Q9H1A4;Q9Y5  
N6;Q16589;Q9BTA9;Q9UBU7;Q9UBD5;P49959;P0CG48;P30304;P51668;P27694;Q12834;Q13257;O147  
57;O75943;P25789;O00233;Q14566;O96020;P20618;P30307;P25205;P40306;P14635;P15927;Q9HA  
W4;Q13042;Q9UJX5;P51965;P49720;Q14683;Q9UM13;P28062;P49721;Q9Y6D9;Q9NYG5;O60921;P257  
86;P42771;O00762;P28072;Q9UJX3;Q13200;P28065;P62979;Q99436;P28070;Q9UJX4;Q8TAA3;Q9UL  
46;Q99460;O00231;O60671;P0CG47;Q13416;O15287;Q6WBX8;P48556;P28074;Q92530;P38936;P629  
87;P33992;O95067;A5LHX3;P19447;Q06323;P30260;O75419;Q9H816;Q00987;Q99741;O14818;Q8NH  
Y2;P24941;O43684;Q99638;Q16401;P46527}
- 15849 Pathogen[ P14079] interacts with 101 human  
partners:{O60671;P28065;Q99436;P62333;Q13416;P48556;P51965;Q7L590;P0CG48;O75419;P303  
07;Q14566;Q13415;Q9Y5N6;P40937;P40306;Q9UJX3;P55036;P28074;Q6WBX8;O00232;Q9BTA9;Q9H1  
A4;Q9UJX6;Q16531;O43913;Q8WXE1;P49720;O00487;P25787;O75832;O95067;A5LHX3;P62979;O002  
33;P35998;P61289;P30304;P51665;P20618;Q00987;Q9NYG5;Q8TAA3;Q99741;Q9HAW4;P352  
50;Q14997;P51668;P14635;Q8NHZ8;O75943;P28062;P60900;Q9UBD5;Q99708;P38936;Q9UM13;Q130  
42;Q9UNM6;Q13257;Q99460;O14818;P49721;Q92530;O43929;Q9UJX6;P33992;P15927;P30260;Q063  
23;P27694;P62191;Q99638;P46527;Q16589;O00762;Q15008;P43686;Q01831;O43242;P25788;O002  
31;P28066;Q9UL46;O96020;P35244;Q14683;P0CG47;Q9H816;P25205;Q16401;Q9UJX4;O60921;P179  
80;O43684;P28072;P19447;Q9UBU7;P42771;Q8NHY2}
- 15850 Pathogen[ P03383] interacts with 90 human  
partners:{Q14683;Q13257;P30307;Q8NHZ8;Q9UBD5;O14757;O60671;P55036;P62987;Q9NYG5;Q9BT  
A9;P51965;Q9UJX6;P25789;Q8WXE1;P60900;Q7L590;P27694;P40306;O00233;P25205;P30304;O007  
62;P49721;Q06323;Q14997;Q9H1A4;P20618;Q13042;Q01831;P14635;P06400;O60921;O43913;Q6WB  
X8;Q12834;O75832;Q9H816;P15927;Q9UM13;Q9Y5N6;P46527;Q9HAW4;O15287;Q43684;P24941;Q9UL  
46;Q9UNM6;O95067;P35244;P25786;Q99460;O96020;P28072;Q13200;P28065;P42771;P28066;Q997  
08;O75419;Q99638;Q9UJX4;Q16401;P62979;O00231;P0CG47;Q13416;Q9UJX5;P0CG48;P28074;Q925  
30;P49720;Q16531;Q8TAA3;P61289;Q9UJX2;Q8NHY2;P28062;P30260;P48556;O14818;Q9UJX3;Q994  
36;P28070;P51668;Q99741;P25787;O96017;Q9Y6D9;P25788}
- 15851 Pathogen[ P03410] interacts with 107 human  
partners:{Q8NHY2;P42771;P28070;P49959;P46527;Q16589;P35244;P25205;P55036;O43929;P0CG  
48;Q99708;O43684;Q9H816;O75943;Q9H1A4;P25786;Q13416;Q15008;Q16401;P60900;O75419;O960  
20;Q14997;P35998;P51965;Q99460;Q9UJX4;Q9NYG5;O00233;Q9UM13;Q6WBX8;Q8WXE1;O00232;Q8NH  
Z8;O95067;Q8TAA3;Q9HAW4;P48556;P49721;P06400;A5LHX3;P62979;Q99436;Q01831;P33992;P403  
06;Q06323;Q13200;P25787;P14635;P38936;Q13042;O15287;P30304;P24941;Q99638;Q9UBU7;P280  
62;P51665;P19447;Q14683;O14818;O96017;O14757;O60671;P51668;Q9UJX5;O60921;Q16531;Q7L5

90;O00231;Q9UNM6;Q12834;P30260;P25789;P49720;Q9UJX3;Q9BTA9;P62987;O00762;P27694;P28072;Q00987;P15927;P35250;Q9Y5N6;P25788;O43913;P40937;Q14566;P28066;Q9UBD5;P28065;O43242;P30307;Q9UJX6;P0CG47;P17980;O75832;P20618;Q9UL46;P28074;P61289;Q13257;Q13415;Q99741}

15852 Pathogen[ P14075] interacts with 89 human partners: {P55036;P25788;Q13042;P28066;O95067;P24941;Q14683;Q9Y6D9;Q8WXE1;Q06323;O75832;Q8TAA3;P60900;P14635;O00233;Q01831;Q9UL46;Q9Y5N6;P49720;Q9UBD5;O75419;P51965;Q13257;P42771;O60671;O43684;Q13200;P48556;Q16401;P15927;O96020;P28070;Q9UJX2;P49721;O00231;P46527;Q9UJX6;Q8NHZ8;Q92530;Q99638;Q9HAW4;P35244;P0CG48;P62979;O00762;P28062;P28074;Q9UJX5;O96017;P25205;P28065;Q9BTA9;Q9H816;P25786;Q16531;O14818;P62987;P28072;Q8NHY2;P30304;P06400;O15287;O43913;P27694;Q14997;O60921;Q9UJX4;P0CG47;P25787;Q13416;Q99741;P20618;Q9H1A4;Q9UNM6;Q9UM13;P30260;P61289;Q7L590;Q9UJX3;P40306;P51668;Q9NYG5;Q99708;Q99436;P30307;Q6WBX8;O14757;Q12834;P25789}

15853 Pathogen[ P0C206] interacts with 103 human partners: {P61289;Q8WXE1;Q99436;P28062;Q9UNM6;P0CG48;O75832;P40306;P49959;P28065;Q14997;Q9UJX3;P55036;Q99708;P30307;O96017;P25786;Q9Y6D9;P25788;O75419;P25205;P25787;Q9UJX5;O43913;Q9UJX2;Q06323;P49720;O00232;Q6WBX8;P60900;Q9UBD5;P42771;Q16531;Q13416;Q9H816;Q16589;O43242;Q99741;Q13257;O96020;P30260;A5LHX3;O75943;P19447;Q99638;P25789;P30291;P51965;Q9H1A4;Q9NYG5;Q9UJX4;O15287;Q8NHY2;P20618;Q9UBU7;Q13200;Q8TAA3;P28070;Q14683;Q99460;Q01831;P62979;Q9Y5N6;P46527;P28066;P38936;O60921;O00762;O14818;Q9BTA9;Q9UJX6;P0CG47;P28072;P30304;O60671;Q13415;P28074;P27694;P28074;Q92530;P15927;P49721;P14635;O43684;P62987;Q00987;P35244;Q9UM13;Q9UL46;Q13042;Q9HAW4;P24941;P51668;Q14566;O00233;P48556;Q16401;Q12834;Q8NHZ8;P33992;O00231;P06400;Q7L590}

15854 Pathogen[ P03363] interacts with 59 human partners: {Q9UJX2;Q9H816;Q9NYG5;Q13042;P51965;O15287;P27694;Q9HAW4;Q16589;Q9Y6D9;O00762;Q92530;Q01831;P25205;Q16531;O60671;Q8NHZ8;Q9UJX3;P61289;P24941;P35244;Q9UJX5;P15927;P30260;P06400;Q9UJX6;P33992;Q9UJX4;O96017;P30304;Q99708;Q13416;O43684;O95067;O96020;Q13415;Q99741;Q9H1A4;P62987;Q13257;Q6WBX8;P51668;Q99638;Q9UM13;O60921;Q7L590;Q12834;Q8NHY2;Q9UBD5;P30307;O75943;Q9Y5N6;Q9BTA9;Q14683;P42771;O75419;Q8WXE1;O14757;O43913}

15855 [Cluster 1442]GO:0032816+P biological\_process [name]positive regulation of natural killer cell activation [def] "Any process that activates or increases the frequency, rate or extent of natural killer cell activation." [GOC

15856 Pathogen[ Q2Q067] interacts with 2 human partners: {Q9UL45;Q6QNY0}

15857 Pathogen[ P0C214] interacts with 3 human partners: {Q99698;Q6QNY0;Q9UL45}

15858 Pathogen[ P03346] interacts with 3 human partners: {Q99698;Q6QNY0;Q9UL45}

15859 Pathogen[ Q85601] interacts with 2 human partners: {Q6QNY0;Q99698}

15860 Pathogen[ P14079] interacts with 5 human partners: {Q6QNY0;Q92902;Q9UL45;P29459;Q99698}

15861 Pathogen[ P03383] interacts with 1 human partners: {Q6QNY0}

15862 Pathogen[ P03410] interacts with 5 human partners: {Q92902;Q6QNY0;Q9UL45;Q99698;P29459}

15863 Pathogen[ P14075] interacts with 1 human partners: {Q6QNY0}

15864 Pathogen[ P0C206] interacts with 3 human partners: {Q9UL45;Q99698;Q6QNY0}

15865 Pathogen[ P03363] interacts with 3 human partners: {Q92902;Q99698;Q6QNY0}

15866 [Cluster 1443]GO:0051383+P biological\_process [name]kinetochore organization [def] "A process that is carried out at the cellular level which results in the assembly, arrangement of constituent parts, or disassembly of the kinetochore, a multisubunit complex that is located at the centromeric region of DNA and provides an attachment point for the spindle microtubules." [GOC

15867 Pathogen[ Q2Q067] interacts with 1 human partners: {Q9H3R5}

15868 Pathogen[ P0C214] interacts with 1 human partners: {Q9H3R5}

15869 Pathogen[ P03346] interacts with 1 human partners: {Q9H3R5}

15870 Pathogen[ Q85601] interacts with 1 human partners: {Q9H3R5}

15871 Pathogen[ P14079] interacts with 1 human partners: {Q9H3R5}

15872 Pathogen[ P03383] interacts with 1 human partners: {Q9H3R5}

15873 Pathogen[ P03410] interacts with 1 human partners: {Q9H3R5}

15874 Pathogen[ P14075] interacts with 1 human partners: {Q9H3R5}

15875 Pathogen[ P0C206] interacts with 1 human partners: {Q9H3R5}

15876 Pathogen[ P03363] interacts with 1 human partners: {Q9H3R5}

15877 [Cluster 1444]GO:0042994+P biological\_process [name]cytoplasmic sequestering of transcription factor [def] "The selective interaction of a transcription factor with specific molecules in the cytoplasm, thereby inhibiting its translocation into the nucleus." [GOC

15878 Pathogen[ Q2Q067] interacts with 7 human partners: {P10827;Q99750;Q96HA7;Q14145;Q9UBC1;P25963;Q9UMX1}

15879 Pathogen[ P0C214] interacts with 6 human partners: {Q14145;Q99750;P25963;Q96HA7;Q9UMX1;Q9UBC1}

15880 Pathogen[ P03346] interacts with 9 human partners: {P10827;Q96HA7;P25963;O00221;Q99750;Q9UBC1;P50539;Q14145;Q9UMX1}

15881 Pathogen[ Q85601] interacts with 8 human partners: {Q96HA7;P50539;Q14145;Q99750;P10827;Q9UMX1;Q9UBC1;P25963}

15882 Pathogen[ P14079] interacts with 9 human partners: {Q9Y6A5;Q9UMX1;Q9UBC1;P10827;Q96HA7;Q14145;O00221;P50539;Q99750}

15883 Pathogen[ P03383] interacts with 6 human partners: {Q9UBC1;P25963;Q14145;Q99750;Q96HA7;Q9UMX1}

15884 Pathogen[ P03410] interacts with 9 human partners:{Q9Y6A5;Q9UBC1;P50539;P25963;Q14145;Q9UMX1;Q96HA7;Q99750;O00221}

15885 Pathogen[ P14075] interacts with 6 human partners:{P25963;Q96HA7;Q9UBC1;Q99750;Q9UMX1;Q14145}

15886 Pathogen[ P0C206] interacts with 10 human partners:{Q96HA7;O00221;Q9UBC1;Q9UMX1;P25963;Q14145;Q9Y6A5;P50539;Q99750;P10827}

15887 Pathogen[ P03363] interacts with 8 human partners:{Q14145;O00221;Q9UMX1;P50539;P25963;Q99750;Q96HA7;Q9UBC1}

15888 [Cluster 1445]GO:0042325+P biological\_process [name] regulation of phosphorylation [def] "Any process that modulates the frequency, rate or extent of addition of phosphate groups into a molecule." [GOC

15889 Pathogen[ Q2Q067] interacts with 5 human partners:{Q8IXJ6;Q99728;Q96C90;P25063;O75943}

15890 Pathogen[ P0C214] interacts with 5 human partners:{Q99728;Q96C90;P25063;O75943;Q8IXJ6}

15891 Pathogen[ P03346] interacts with 7 human partners:{Q99728;Q8IXJ6;Q9NXH3;Q96C90;O75943;Q96A00;P25063}

15892 Pathogen[ Q85601] interacts with 4 human partners:{Q99728;O75943;Q8IXJ6;Q96C90}

15893 Pathogen[ P14079] interacts with 7 human partners:{Q9NXH3;O75943;Q96A00;P25063;Q8IXJ6;Q8TAE6;Q96C90}

15894 Pathogen[ P03383] interacts with 2 human partners:{Q96C90;P25063}

15895 Pathogen[ P03410] interacts with 7 human partners:{Q8IXJ6;O75943;Q9NXH3;Q96A00;Q8TAE6;P25063;Q96C90}

15896 Pathogen[ P14075] interacts with 5 human partners:{Q96C90;Q96A00;Q8TAE6;Q9NXH3;P25063}

15897 Pathogen[ P0C206] interacts with 8 human partners:{Q9NXH3;Q96C90;Q8TAE6;O75943;P25063;Q99728;Q8IXJ6;Q96A00}

15898 Pathogen[ P03363] interacts with 5 human partners:{Q9NXH3;Q96C90;Q99728;Q96A00;O75943}

15899 [Cluster 1446]GO:0010466+P biological\_process [name] negative regulation of peptidase activity [def] "Any process that stops or reduces the rate of peptidase activity, the hydrolysis of peptide bonds within proteins." [GOC

15900 Pathogen[ Q2Q067] interacts with 9 human partners:{P01009;P08697;P50453;Q9NR09;P48595;P20810;P50452;O15392;P35237}

15901 Pathogen[ P0C214] interacts with 29 human partners:{P08697;P35237;Q9UK55;P01011;P29622;P48594;Q86WD7;P05121;P29508;P20810;O75830;P98170;O75635;A8MV23;P05546;P07093;P01008;P30740;Q96P63;P50453;O15392;P05120;Q99574;Q9NR09;Q9UIV8;Q96P15;P50452;Q96CA5;P48595}

15902 Pathogen[ P03346] interacts with 15 human partners:{P50452;O15392;P35237;P98170;O75635;P04080;P50453;Q96P63;Q9NR09;P01009;Q9H12;Q96P15;Q96CA5;P20810;P48595}

15903 Pathogen[ Q85601] interacts with 20 human partners:{P50452;Q96P15;P01011;P98170;O15392;P35237;P08697;P01009;P05121;P50453;P05120;P01008;Q9NR09;P48595;P30740;O75635;P07093;Q96CA5;P29508;Q96P63}

15904 Pathogen[ P14079] interacts with 9 human partners:{P35237;P50452;P04080;O15392;P20810;Q9NR09;P03973;P50453;P48595}

15905 Pathogen[ P03383] interacts with 12 human partners:{P08697;P30740;P01009;P01008;P48595;P20810;P50453;Q96P63;P35237;Q9NR09;P50452;O75635}

15906 Pathogen[ P03410] interacts with 18 human partners:{O15392;P05121;Q8IUB3;Q9H1F0;Q96P63;P50452;Q9NR09;Q96P15;P08697;P50453;P01009;P20810;Q99935;P35237;O75635;P30740;P48595;P01011}

15907 Pathogen[ P14075] interacts with 8 human partners:{P20810;P01009;P48595;P08697;P50452;P50453;Q9NR09;P35237}

15908 Pathogen[ P0C206] interacts with 18 human partners:{P50452;P01008;P98170;P35237;P01009;P50453;Q9NR09;Q96P15;O75635;P20810;O15392;P05121;Q96CA5;P48595;Q96P63;P01011;P30740;P08697}

15909 Pathogen[ P03363] interacts with 12 human partners:{P20810;P35237;P50452;P50453;Q96P63;Q9H112;Q9NR09;O75635;P98170;Q96P15;Q96CA5;P48595}

15910 [Cluster 1447]GO:0033152+P biological\_process [name] immunoglobulin V(D)J recombination [def] "The process in which immunoglobulin gene segments are recombined within a single locus utilizing the conserved heptamer and nonamer recombination signal sequences (RSS). For immunoglobulin heavy chains V, D, and J gene segments are joined, and for immunoglobulin light chains V and J gene segments are joined." [GOC

15911 Pathogen[ Q2Q067] interacts with 2 human partners:{Q13426;P15923}

15912 Pathogen[ P0C214] interacts with 2 human partners:{Q13426;P15923}

15913 Pathogen[ P03346] interacts with 2 human partners:{Q13426;P15923}

15914 Pathogen[ Q85601] interacts with 2 human partners:{Q13426;P15923}

15915 Pathogen[ P14079] interacts with 3 human partners:{P15923;Q13426;P49917}

15916 Pathogen[ P03383] interacts with 2 human partners:{P15923;Q13426}

15917 Pathogen[ P03410] interacts with 2 human partners:{P15923;Q13426}

15918 Pathogen[ P14075] interacts with 2 human partners:{P15923;Q13426}

15919 Pathogen[ P0C206] interacts with 3 human partners:{P49917;Q13426;P15923}

15920 Pathogen[ P03363] interacts with 2 human partners:{P15923;Q13426}

15921 [Cluster 1448]GO:0048484+P biological\_process [name] enteric nervous system

development [def] "The process whose specific outcome is the progression of the enteric nervous system over time, from its formation to the mature structure. The enteric nervous system is composed of two ganglionated neural plexuses in the gut wall which form one of the three major divisions of the autonomic nervous system. The enteric nervous system innervates the gastrointestinal tract, the pancreas, and the gall bladder. It contains sensory neurons, interneurons, and motor neurons. Thus the circuitry can autonomously sense the tension and the chemical environment in the gut and regulate blood vessel tone, motility, secretions, and fluid transport. The system is itself governed by the central nervous system and receives both parasympathetic and sympathetic innervation." [FMA]

15922 Pathogen[ Q2Q067] interacts with 1 human partners:{P56693}

15923 Pathogen[ P0C214] interacts with 1 human partners:{P56693}

15924 Pathogen[ P03346] interacts with 4 human partners:{Q14774;P56693;O43763;Q9UJU5}

15925 Pathogen[ Q85601] interacts with 1 human partners:{P56693}

15926 Pathogen[ P14079] interacts with 2 human partners:{Q8IZ21;P56693}

15927 Pathogen[ P03383] interacts with 1 human partners:{P56693}

15928 Pathogen[ P03410] interacts with 2 human partners:{Q8IZ21;P56693}

15929 Pathogen[ P14075] interacts with 1 human partners:{P56693}

15930 Pathogen[ P0C206] interacts with 2 human partners:{P56693;O43763}

15931 Pathogen[ P03363] interacts with 3 human partners:{O43763;P56693;Q9UJU5}

15932 [Cluster 1449]GO:0097101+P biological\_process [name] blood vessel endothelial cell fate specification [def] "The process involved in the specification of identity of a blood vessel endothelial cell. Once specification has taken place, a cell will be committed to differentiate down a specific pathway if left in its normal environment. A blood vessel endothelial cell is an endothelial cell of the vascular tree, which includes blood vessels and lymphatic vessels." [CL]

15933 Pathogen[ Q2Q067] interacts with 1 human partners:{Q06330}

15934 Pathogen[ P0C214] interacts with 1 human partners:{Q06330}

15935 Pathogen[ P03346] interacts with 1 human partners:{Q06330}

15936 Pathogen[ Q85601] interacts with 1 human partners:{Q06330}

15937 Pathogen[ P14079] interacts with 1 human partners:{Q06330}

15938 Pathogen[ P03383] interacts with 1 human partners:{Q06330}

15939 Pathogen[ P03410] interacts with 1 human partners:{Q06330}

15940 Pathogen[ P14075] interacts with 1 human partners:{Q06330}

15941 Pathogen[ P0C206] interacts with 1 human partners:{Q06330}

15942 Pathogen[ P03363] interacts with 1 human partners:{Q06330}

15943 [Cluster 1450]GO:0046670+P biological\_process [name] positive regulation of retinal cell programmed cell death [def] "Any process that activates or increases the frequency, rate or extent of programmed cell death that occurs in the retina." [GOC]

15944 Pathogen[ Q2Q067] interacts with 1 human partners:{P55212}

15945 Pathogen[ P0C214] interacts with 1 human partners:{P55212}

15946 Pathogen[ P03346] interacts with 1 human partners:{P55212}

15947 Pathogen[ Q85601] interacts with 1 human partners:{P55212}

15948 Pathogen[ P14079] interacts with 1 human partners:{P55212}

15949 Pathogen[ P03383] interacts with 1 human partners:{P55212}

15950 Pathogen[ P03410] interacts with 1 human partners:{P55212}

15951 Pathogen[ P14075] interacts with 1 human partners:{P55212}

15952 Pathogen[ P0C206] interacts with 1 human partners:{P55212}

15953 Pathogen[ P03363] interacts with 1 human partners:{P55212}

15954 [Cluster 1451]GO:0016571+P biological\_process [name] histone methylation [def] "The modification of histones by addition of methyl groups." [GOC]

15955 Pathogen[ Q2Q067] interacts with 14 human partners:{Q9NVM4;Q96LA8;Q15910;P55345;Q15022;Q9NR22;Q99873;O00255;Q86Y97;Q8NI51;O75530;Q01826;Q8TEK3;Q86X55}

15956 Pathogen[ P0C214] interacts with 14 human partners:{Q8NI51;Q15022;O75530;Q9NVM4;Q99873;Q15910;P55345;Q86Y97;Q01826;Q86X55;O00255;Q9NR22;Q96LA8;Q8TEK3}

15957 Pathogen[ P03346] interacts with 14 human partners:{Q8NI51;Q99873;Q86Y97;O75530;Q8TEK3;O00255;Q15022;P55345;Q9NR22;Q9NVM4;Q15910;Q86X55;Q01826;Q96LA8}

15958 Pathogen[ Q85601] interacts with 14 human partners:{Q8NI51;Q9NR22;Q86X55;Q9NVM4;Q15022;Q99873;O75530;O00255;Q01826;Q8TEK3;Q86Y97;Q15910;Q96LA8;P55345}

15959 Pathogen[ P14079] interacts with 13 human partners:{Q9NR22;Q96LA8;Q99873;Q9NVM4;Q01826;P55345;O75530;Q8TEK3;Q15910;O00255;Q86Y97;Q15022;Q8NI51}

15960 Pathogen[ P03383] interacts with 12 human partners:{Q8NI51;Q86X55;Q01826;Q86Y97;Q15022;Q99873;Q9NR22;O00255;Q15910;Q8TEK3;Q96LA8;O75530}

15961 Pathogen[ P03410] interacts with 14 human partners:{Q96LA8;Q86Y97;Q8TEK3;Q9NVM4;Q86X55;Q9NR22;Q01826;Q15910;Q8NI51;O00255;Q15022;Q99873;P55345;O75530}

15962 Pathogen[ P14075] interacts with 12 human partners:{Q8NI51;Q9NR22;Q15910;Q01826;O00255;Q96LA8;Q99873;Q86X55;Q8TEK3;Q86Y97;Q15022;O75530}

15963 Pathogen[ P0C206] interacts with 14 human

partners:{075530;Q99873;Q86X55;O00255;Q96LA8;Q8NI51;Q15910;Q86Y97;Q9NVM4;Q9NR22;Q15022;Q8TEK3;Q01826;P55345}

15964 Pathogen[ P03363] interacts with 12 human  
partners:{Q15022;Q96LA8;Q01826;Q15910;Q8TEK3;075530;Q8NI51;Q9NVM4;Q9NR22;Q86Y97;Q86X55;Q99873}

15965 [Cluster 1452]GO:0071456+P biological\_process [name] cellular response to hypoxia [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a stimulus indicating lowered oxygen tension. Hypoxia, defined as a decline in O2 levels below normoxic levels of 20.8 - 20.95%, results in metabolic adaptation at both the cellular and organismal level." [GOC

15966 Pathogen[ Q2Q067] interacts with 30 human  
partners:{P27540;P02545;Q9H4X1;Q01094;P62837;Q9BXH1;Q13794;P61077;P14635;P40337;Q15370;P51668;Q9Y2N7;Q9NWT6;Q15369;Q96KS0;Q9H6Z9;P0CG47;Q12983;P0CG48;Q9GZT9;Q92793;P62987;Q92597;Q99814;Q00987;Q96A26;Q13617;P62877;P62979}

15967 Pathogen[ P0C214] interacts with 30 human  
partners:{Q13617;Q9H4X1;Q92934;Q00987;Q92793;Q96KS0;P14635;Q15370;P62877;P61077;Q13794;Q9BXH1;Q01094;Q9Y2N7;Q92597;Q9H6Z9;Q8TDB4;P0CG48;Q15369;P40337;Q9GZT9;P62987;Q12983;P0CG47;Q99814;P27540;P02545;P51668;P62979;Q9NWT6}

15968 Pathogen[ P03346] interacts with 33 human  
partners:{Q15370;Q9H4X1;P07148;P62987;P0CG48;Q96A26;P27540;Q12983;Q01094;P51668;P02545;P61077;Q8TDB4;Q00987;P62877;Q92597;P14635;Q9Y2N7;Q9GZT9;P62837;Q99814;P62979;P40337;O15151;Q15369;P0CG47;Q96KS0;Q9NWT6;Q92793;Q9BXH1;Q9H6Z9;Q13794;Q13617}

15969 Pathogen[ Q85601] interacts with 31 human  
partners:{Q15370;Q9H4X1;Q9H6Z9;P02545;Q9BXH1;Q9Y2N7;O15151;P62877;P40337;Q8TDB4;Q9NWT6;Q99814;P27540;P0CG48;P51668;P61077;Q9GZT9;P14635;Q96KS0;Q15369;P62979;P62837;P0CG47;Q12983;Q92597;P62987;Q92793;Q00987;Q01094;Q13794;Q13617}

15970 Pathogen[ P14079] interacts with 32 human  
partners:{Q9GZT9;Q99814;P0CG48;Q9Y2N7;Q92793;P62979;Q92597;P61077;P62877;Q9BXH1;P62987;Q00987;P40337;P51668;P14635;Q92934;Q9NWT6;P27540;Q9H6Z9;Q15370;Q13794;Q12983;Q96A26;Q8TDB4;Q13617;P62837;P02545;P0CG47;O15151;Q01094;Q96KS0}

15971 Pathogen[ P03383] interacts with 28 human  
partners:{P02545;Q9H4X1;Q15369;Q9NWT6;P27540;P62987;P40337;Q01094;Q8TDB4;Q96A26;Q92597;Q96KS0;P14635;Q12983;P61077;Q9Y2N7;Q9H6Z9;P62837;Q13617;P62979;P0CG47;P62877;Q15370;P0CG48;Q13794;Q9BXH1;Q92793;P51668}

15972 Pathogen[ P03410] interacts with 33 human  
partners:{Q9H4X1;P0CG48;Q12983;Q9NWT6;O15151;Q96KS0;Q9H6Z9;Q99814;Q9BXH1;Q9Y2N7;Q92934;Q15370;Q13794;P62979;Q9GZT9;P27540;Q92793;Q15369;P14635;Q96A26;P02545;P62877;P51668;P62987;Q01094;Q92597;Q13617;Q00987;Q8TDB4;P0CG47;P40337;P61077;P62837}

15973 Pathogen[ P14075] interacts with 29 human  
partners:{Q9H4X1;Q12983;Q96KS0;Q9GZT9;Q96A26;P62837;P14635;Q9Y2N7;P61077;P27540;P02545;P0CG48;P62979;Q15370;Q9BXH1;P62987;Q9NWT6;Q01094;Q13794;Q8TDB4;P0CG47;Q92793;Q92597;P40337;P51668;Q13617;Q15369;P62877;Q9H6Z9}

15974 Pathogen[ P0C206] interacts with 33 human  
partners:{Q92597;P0CG48;P62877;Q9H4X1;Q9Y2N7;Q96KS0;Q9GZT9;P62837;Q9BXH1;Q96A26;Q92793;Q92934;Q12983;O15151;Q13617;Q9NWT6;Q01094;P62979;Q15370;P0CG47;P02545;Q9H6Z9;P27540;P61077;P14635;Q99814;P62987;Q00987;Q15369;P51668;P40337;Q13794;Q8TDB4}

15975 Pathogen[ P03363] interacts with 21 human  
partners:{Q15370;Q9H4X1;P27540;P02545;Q13794;Q9H6Z9;Q92597;Q13617;O15151;Q15369;P40337;P62877;Q01094;Q9Y2N7;P62987;Q99814;Q92793;P51668;P61077;P62837;Q9BXH1}

15976 [Cluster 1453]GO:000098+P biological\_process [name] sulfur amino acid catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of amino acids containing sulfur, comprising cysteine, methionine and selenocysteine." [GOC

15977 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9UBX3;P32929;O95571}

15978 Pathogen[ P0C214] interacts with 4 human partners:{P32929;O95571;Q9UBX3;Q16762}

15979 Pathogen[ P03346] interacts with 3 human partners:{Q9UBX3;P32929;O95571}

15980 Pathogen[ Q85601] interacts with 3 human partners:{Q9UBX3;O95571;P32929}

15981 Pathogen[ P14079] interacts with 4 human partners:{O95571;P32929;Q16762;Q16878}

15982 Pathogen[ P03383] interacts with 1 human partners:{O95571}

15983 Pathogen[ P03410] interacts with 4 human partners:{P32929;Q9UBX3;O95571;Q16762}

15984 Pathogen[ P14075] interacts with 1 human partners:{O95571}

15985 Pathogen[ P0C206] interacts with 4 human partners:{Q9UBX3;P32929;Q16762;O95571}

15986 Pathogen[ P03363] interacts with 1 human partners:{O95571}

15987 [Cluster 1454]GO:0031076+P biological\_process [name] embryonic camera-type eye development [def] "The process occurring during the embryonic phase whose specific outcome is the progression of the eye over time, from its formation to the mature structure." [GOC

15988 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8WUF5}

15989 Pathogen[ P0C214] interacts with 1 human partners:{Q8WUF5}

15990 Pathogen[ P03346] interacts with 1 human partners:{Q8WUF5}

15991 Pathogen[ Q85601] interacts with 1 human partners:{Q8WUF5}

15992 Pathogen[ P14079] interacts with 2 human partners:{Q8WUF5;P48681}

15993 Pathogen[ P03383] interacts with 1 human partners:{Q8WUF5}

15994 Pathogen[ P03410] interacts with 1 human partners:{Q8WUF5}

15995 Pathogen[ P14075] interacts with 1 human partners:{Q8WUF5}

15996 Pathogen[ P0C206] interacts with 1 human partners:{Q8WUF5}

15997 Pathogen[ P03363] interacts with 1 human partners:{Q8WUF5}

15998 [Cluster 1455]GO:0007288+P biological\_process [name] sperm axoneme assembly [def] "The assembly and organization of the sperm flagellar axoneme, the bundle of microtubules and associated proteins that forms the core of the eukaryotic sperm flagellum, and is responsible for movement." [GOC

15999 Pathogen[ Q2Q067] interacts with 1 human partners:{P63146}

16000 Pathogen[ P0C214] interacts with 1 human partners:{P63146}

16001 Pathogen[ P03346] interacts with 1 human partners:{P63146}

16002 Pathogen[ Q85601] interacts with 1 human partners:{P63146}

16003 Pathogen[ P14079] interacts with 1 human partners:{P63146}

16004 Pathogen[ P03383] interacts with 1 human partners:{P63146}

16005 Pathogen[ P03410] interacts with 1 human partners:{P63146}

16006 Pathogen[ P14075] interacts with 1 human partners:{P63146}

16007 Pathogen[ P0C206] interacts with 1 human partners:{P63146}

16008 Pathogen[ P03363] interacts with 1 human partners:{P63146}

16009 [Cluster 1456]GO:0008542+P biological\_process [name] visual learning [def] "Any process in an organism in which a change in behavior of an individual occurs in response to repeated exposure to a visual cue." [GOC

16010 Pathogen[ Q2Q067] interacts with 1 human partners:{000213}

16011 Pathogen[ P0C214] interacts with 1 human partners:{000213}

16012 Pathogen[ P03346] interacts with 1 human partners:{000213}

16013 Pathogen[ Q85601] interacts with 1 human partners:{000213}

16014 Pathogen[ P14079] interacts with 1 human partners:{000213}

16015 Pathogen[ P03383] interacts with 1 human partners:{000213}

16016 Pathogen[ P03410] interacts with 1 human partners:{000213}

16017 Pathogen[ P14075] interacts with 1 human partners:{000213}

16018 Pathogen[ P0C206] interacts with 1 human partners:{000213}

16019 Pathogen[ P03363] interacts with 1 human partners:{000213}

16020 [Cluster 1457]GO:0001763+P biological\_process [name] morphogenesis of a branching structure [def] "The process in which the anatomical structures of branches are generated and organized. A branch is a division or offshoot from a main stem. Examples in animals would include blood vessels, nerves, lymphatics and other endothelial or epithelial tubes." [ISBN

16021 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UQB3}

16022 Pathogen[ P0C214] interacts with 1 human partners:{Q9UQB3}

16023 Pathogen[ P03346] interacts with 3 human partners:{Q9BYW2;Q9UQB3;O43680}

16024 Pathogen[ Q85601] interacts with 1 human partners:{Q9UQB3}

16025 Pathogen[ P14079] interacts with 1 human partners:{Q9UQB3}

16026 Pathogen[ P03383] interacts with 1 human partners:{Q9UQB3}

16027 Pathogen[ P03410] interacts with 1 human partners:{Q9UQB3}

16028 Pathogen[ P14075] interacts with 1 human partners:{Q9UQB3}

16029 Pathogen[ P0C206] interacts with 1 human partners:{Q9UQB3}

16030 Pathogen[ P03363] interacts with 1 human partners:{Q9UQB3}

16031 [Cluster 1458]GO:0030838+P biological\_process [name] positive regulation of actin filament polymerization [def] "Any process that activates or increases the frequency, rate or extent of actin polymerization." [GOC

16032 Pathogen[ Q2Q067] interacts with 9 human partners:{P35080;O43639;Q12959;Q9BVC4;Q13233;P16333;P63000;Q6R327;O95429}

16033 Pathogen[ P0C214] interacts with 12 human partners:{P35080;P63000;Q9BVC4;P62993;O43639;Q13233;Q6R327;O14613;O95429;Q12959;P16333;O15144}

16034 Pathogen[ P03346] interacts with 12 human partners:{O43639;O15144;Q9BVC4;P62993;O14613;P16333;P35080;Q13233;O95429;Q6R327;P63000;Q12959}

16035 Pathogen[ Q85601] interacts with 11 human partners:{P62993;P16333;P35080;P63000;O43639;Q9BVC4;O14613;Q12959;Q13233;O95429;O15144}

16036 Pathogen[ P14079] interacts with 11 human partners:{Q6R327;O14613;O95429;P35080;Q9BVC4;Q6NZY7;P61158;P16333;P62993;O43639;O15144}

16037 Pathogen[ P03383] interacts with 5 human partners:{P35080;Q13233;P63000;P16333;O95429}

16038 Pathogen[ P03410] interacts with 13 human partners:{P35080;P63000;Q12959;O43639;P16333;Q9BVC4;Q13233;Q6NZY7;O95429;O14613;Q6R327;O15144;P62993}

16039 Pathogen[ P14075] interacts with 7 human partners:{P16333;Q6R327;O14613;P63000;P35080;Q13233;O95429}

16040 Pathogen[ P0C206] interacts with 12 human partners:{O14613;Q13233;P62993;Q6R327;P63000;P35080;O95429;O15144;P16333;O43639;Q12959;Q9BVC4}

16041 Pathogen[ P03363] interacts with 11 human partners:{Q12959;Q9BVC4;P35080;O43639;P63000;O15144;P16333;O14613;O95429;Q13233;Q6R327}

16042 [Cluster 1459]GO:0001547+P biological\_process [name] antral ovarian follicle growth [def] "Increase in size of antral follicles due to cell proliferation and/or growth of the antral cavity." [http



16043 Pathogen[ Q2Q067] interacts with 2 human partners:{O43524;P24864}  
16044 Pathogen[ P0C214] interacts with 1 human partners:{P24864}  
16045 Pathogen[ P03346] interacts with 2 human partners:{P24864;O43524}  
16046 Pathogen[ Q85601] interacts with 1 human partners:{P24864}  
16047 Pathogen[ P14079] interacts with 1 human partners:{P24864}  
16048 Pathogen[ P03383] interacts with 1 human partners:{P24864}  
16049 Pathogen[ P03410] interacts with 1 human partners:{P24864}  
16050 Pathogen[ P14075] interacts with 1 human partners:{P24864}  
16051 Pathogen[ P0C206] interacts with 1 human partners:{P24864}  
16052 Pathogen[ P03363] interacts with 2 human partners:{P24864;O43524}  
16053 [Cluster 1460]GO:0035265+P biological\_process [name] organ growth [def] "The increase in size or mass of an organ. Organs are commonly observed as visibly distinct structures, but may also exist as loosely associated clusters of cells that function together as to perform a specific function." [GOC  
16054 Pathogen[ Q2Q067] interacts with 1 human partners:{Q15796}  
16055 Pathogen[ P0C214] interacts with 2 human partners:{Q15796;Q9NPC3}  
16056 Pathogen[ P03346] interacts with 2 human partners:{Q15796;Q9NPC3}  
16057 Pathogen[ Q85601] interacts with 2 human partners:{Q9NPC3;Q15796}  
16058 Pathogen[ P14079] interacts with 1 human partners:{Q9NPC3}  
16059 Pathogen[ P03383] interacts with 1 human partners:{Q15796}  
16060 Pathogen[ P03410] interacts with 2 human partners:{Q9NPC3;Q15796}  
16061 Pathogen[ P14075] interacts with 1 human partners:{Q15796}  
16062 Pathogen[ P0C206] interacts with 2 human partners:{Q9NPC3;Q15796}  
16063 Pathogen[ P03363] interacts with 2 human partners:{Q9NPC3;Q15796}  
16064 [Cluster 1461]GO:0031576+P biological\_process [name] G2/M transition checkpoint [def] "A cell cycle checkpoint that blocks entry into M phase." [GOC  
16065 Pathogen[ Q2Q067] interacts with 5 human partners:{Q7Z2Z1;Q96AH0;Q9BQ15;O60934;Q68E01}  
16066 Pathogen[ P0C214] interacts with 4 human partners:{Q96AH0;Q68E01;Q7Z2Z1;Q9BQ15}  
16067 Pathogen[ P03346] interacts with 5 human partners:{Q7Z2Z1;Q96AH0;Q68E01;Q9BQ15;O60934}  
16068 Pathogen[ Q85601] interacts with 5 human partners:{Q7Z2Z1;Q96AH0;Q68E01;Q9BQ15;O60934}  
16069 Pathogen[ P14079] interacts with 5 human partners:{Q9BQ15;O60934;Q96AH0;Q68E01;Q7Z2Z1}  
16070 Pathogen[ P03383] interacts with 4 human partners:{Q68E01;Q7Z2Z1;Q9BQ15;Q96AH0}  
16071 Pathogen[ P03410] interacts with 5 human partners:{Q9BQ15;Q96AH0;Q7Z2Z1;Q68E01;O60934}  
16072 Pathogen[ P14075] interacts with 4 human partners:{Q7Z2Z1;Q68E01;Q9BQ15;Q96AH0}  
16073 Pathogen[ P0C206] interacts with 5 human partners:{Q68E01;Q9BQ15;O60934;Q7Z2Z1;Q96AH0}  
16074 Pathogen[ P03363] interacts with 4 human partners:{Q7Z2Z1;Q96AH0;Q9BQ15;Q68E01}  
16075 [Cluster 1462]GO:0045577+P biological\_process [name] regulation of B cell differentiation [def] "Any process that modulates the frequency, rate or extent of B cell differentiation." [GOC  
16076 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UKT9}  
16077 Pathogen[ P0C214] interacts with 1 human partners:{Q9UKT9}  
16078 Pathogen[ P03346] interacts with 1 human partners:{Q9UKT9}  
16079 Pathogen[ Q85601] interacts with 1 human partners:{Q9UKT9}  
16080 Pathogen[ P14079] interacts with 2 human partners:{Q9BXL7;Q9UKT9}  
16081 Pathogen[ P03383] interacts with 1 human partners:{Q9UKT9}  
16082 Pathogen[ P03410] interacts with 2 human partners:{Q9UKT9;Q9BXL7}  
16083 Pathogen[ P14075] interacts with 1 human partners:{Q9UKT9}  
16084 Pathogen[ P0C206] interacts with 1 human partners:{Q9UKT9}  
16085 Pathogen[ P03363] interacts with 1 human partners:{Q9UKT9}  
16086 [Cluster 1463]GO:0023019+P biological\_process [name] signal transduction involved in regulation of gene expression [def] "Any process that modulates the frequency, rate or extent of gene expression as a consequence of a process in which a signal is released and/or conveyed from one location to another." [GOC  
16087 Pathogen[ Q2Q067] interacts with 3 human partners:{Q13562;P35548;Q0VG99}  
16088 Pathogen[ P0C214] interacts with 1 human partners:{P35548}  
16089 Pathogen[ P03346] interacts with 4 human partners:{P35548;Q0VG99;Q13562;P56915}  
16090 Pathogen[ Q85601] interacts with 3 human partners:{Q0VG99;Q13562;P35548}  
16091 Pathogen[ P14079] interacts with 1 human partners:{P28360}  
16092 Pathogen[ P03383] interacts with 1 human partners:{P35548}  
16093 Pathogen[ P03410] interacts with 1 human partners:{P35548}  
16094 Pathogen[ P14075] interacts with 1 human partners:{P35548}  
16095 Pathogen[ P0C206] interacts with 3 human partners:{P35548;Q13562;Q0VG99}  
16096 Pathogen[ P03363] interacts with 3 human partners:{Q0VG99;P35548;P56915}  
16097 [Cluster 1464]GO:0051310+P biological\_process [name] metaphase plate congression [def] "The alignment of chromosomes at the metaphase plate, a plane halfway between the poles of the spindle." [GOC  
16098 Pathogen[ Q2Q067] interacts with 2 human partners:{P49454;Q8N0Z3}  
16099 Pathogen[ P0C214] interacts with 2 human partners:{Q8N0Z3;P49454}  
16100 Pathogen[ P03346] interacts with 2 human partners:{Q8N0Z3;P49454}  
16101 Pathogen[ Q85601] interacts with 2 human partners:{P49454;Q8N0Z3}

16102 Pathogen[ P14079] interacts with 2 human partners:{Q8N0Z3;P49454}  
16103 Pathogen[ P03383] interacts with 2 human partners:{P49454;Q8N0Z3}  
16104 Pathogen[ P03410] interacts with 2 human partners:{P49454;Q8N0Z3}  
16105 Pathogen[ P14075] interacts with 2 human partners:{P49454;Q8N0Z3}  
16106 Pathogen[ P0C206] interacts with 2 human partners:{P49454;Q8N0Z3}  
16107 Pathogen[ P03363] interacts with 2 human partners:{P49454;Q8N0Z3}  
16108 [Cluster 1465]GO:0006596+P biological\_process [name] polyamine biosynthetic process  
[def] "The chemical reactions and pathways resulting in the formation of polyamines, any  
organic compound containing two or more amino groups." [ISBN  
16109 Pathogen[ Q2Q067] interacts with 1 human partners:{P21673}  
16110 Pathogen[ P0C214] interacts with 3 human partners:{P54368;Q9NWM0;P21673}  
16111 Pathogen[ P03346] interacts with 1 human partners:{P21673}  
16112 Pathogen[ Q85601] interacts with 1 human partners:{P21673}  
16113 Pathogen[ P14079] interacts with 3 human partners:{P17707;P54368;P21673}  
16114 Pathogen[ P03383] interacts with 1 human partners:{P21673}  
16115 Pathogen[ P03410] interacts with 3 human partners:{P21673;P54368;P17707}  
16116 Pathogen[ P14075] interacts with 1 human partners:{P21673}  
16117 Pathogen[ P0C206] interacts with 2 human partners:{P21673;P54368}  
16118 Pathogen[ P03363] interacts with 1 human partners:{P21673}  
16119 [Cluster 1466]GO:0008637+P biological\_process [name] apoptotic mitochondrial changes  
[def] "The morphological and physiological alterations undergone by mitochondria during  
apoptosis." [GOC  
16120 Pathogen[ Q2Q067] interacts with 7 human  
partners:{P51398;P31749;P55957;P09913;Q8N726;P84022;Q13233}  
16121 Pathogen[ P0C214] interacts with 8 human  
partners:{P09913;P30405;P84022;P55957;Q8N726;Q13233;P51398;P31749}  
16122 Pathogen[ P03346] interacts with 7 human  
partners:{P55957;P51398;P84022;P31749;Q13233;P09913;Q8N726}  
16123 Pathogen[ Q85601] interacts with 8 human  
partners:{P30405;P09913;P31749;P51398;Q8N726;P55957;P84022;Q13233}  
16124 Pathogen[ P14079] interacts with 4 human partners:{Q8N726;P09913;P51398;P55957}  
16125 Pathogen[ P03383] interacts with 7 human  
partners:{P51398;Q13233;P31749;P55957;P09913;P84022;Q8N726}  
16126 Pathogen[ P03410] interacts with 8 human  
partners:{P84022;Q8N726;P31749;Q13233;P55957;P09913;P30405;P51398}  
16127 Pathogen[ P14075] interacts with 7 human  
partners:{P55957;P09913;P51398;P31749;P84022;Q13233;Q8N726}  
16128 Pathogen[ P0C206] interacts with 8 human  
partners:{P84022;P31749;Q8N726;Q13233;P51398;P09913;P30405;P55957}  
16129 Pathogen[ P03363] interacts with 7 human  
partners:{P55957;P09913;P31749;P84022;Q8N726;P51398;Q13233}  
16130 [Cluster 1467]GO:0032774+P biological\_process [name] RNA biosynthetic process [def]  
"The chemical reactions and pathways resulting in the formation of RNA, ribonucleic  
acid, one of the two main type of nucleic acid, consisting of a long, unbranched  
macromolecule formed from ribonucleotides joined in 3',5'-phosphodiester linkage.  
Includes polymerization of ribonucleotide monomers." [GOC  
16131 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BWH6}  
16132 Pathogen[ P0C214] interacts with 1 human partners:{Q9BWH6}  
16133 Pathogen[ P03346] interacts with 2 human partners:{P0CAP2;Q9BWH6}  
16134 Pathogen[ Q85601] interacts with 1 human partners:{Q9BWH6}  
16135 Pathogen[ P14079] interacts with 2 human partners:{Q9BWH6;P0CAP2}  
16136 Pathogen[ P03383] interacts with 2 human partners:{P0CAP2;Q9BWH6}  
16137 Pathogen[ P03410] interacts with 2 human partners:{Q9BWH6;P0CAP2}  
16138 Pathogen[ P14075] interacts with 2 human partners:{Q9BWH6;P0CAP2}  
16139 Pathogen[ P0C206] interacts with 2 human partners:{Q9BWH6;P0CAP2}  
16140 Pathogen[ P03363] interacts with 2 human partners:{Q9BWH6;P0CAP2}  
16141 [Cluster 1468]GO:0032495+P biological\_process [name] response to muramyl dipeptide  
[def] "Any process that results in a change in state or activity of an organism (in  
terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a  
muramyl dipeptide stimulus. Muramyl dipeptide is derived from peptidoglycan." [GOC  
16142 Pathogen[ Q2Q067] interacts with 3 human partners:{Q04206;P25963;Q9C000}  
16143 Pathogen[ P0C214] interacts with 3 human partners:{Q04206;P25963;Q9C000}  
16144 Pathogen[ P03346] interacts with 3 human partners:{P25963;Q04206;Q9C000}  
16145 Pathogen[ Q85601] interacts with 2 human partners:{Q04206;P25963}  
16146 Pathogen[ P14079] interacts with 1 human partners:{Q9C000}  
16147 Pathogen[ P03383] interacts with 2 human partners:{P25963;Q04206}  
16148 Pathogen[ P03410] interacts with 3 human partners:{Q04206;Q9C000;P25963}  
16149 Pathogen[ P14075] interacts with 2 human partners:{Q04206;P25963}  
16150 Pathogen[ P0C206] interacts with 3 human partners:{Q9C000;P25963;Q04206}  
16151 Pathogen[ P03363] interacts with 3 human partners:{Q04206;Q9C000;P25963}  
16152 [Cluster 1469]GO:0001880+P biological\_process [name] Mullerian duct regression  
[def] "The process in which the Mullerian ducts, primordia of the oviducts, uterus and  
upper vagina, undergo regression in male embryos." [GOC  
16153 Pathogen[ Q2Q067] interacts with 2 human partners:{O15198;Q99717}  
16154 Pathogen[ P0C214] interacts with 2 human partners:{O15198;Q99717}  
16155 Pathogen[ P03346] interacts with 2 human partners:{Q99717;O15198}

16156 Pathogen[ Q85601] interacts with 2 human partners:{O15198;Q99717}  
16157 Pathogen[ P14079] interacts with 1 human partners:{O15198}  
16158 Pathogen[ P03383] interacts with 2 human partners:{O15198;Q99717}  
16159 Pathogen[ P03410] interacts with 2 human partners:{Q99717;O15198}  
16160 Pathogen[ P14075] interacts with 2 human partners:{Q99717;O15198}  
16161 Pathogen[ P0C206] interacts with 2 human partners:{Q99717;O15198}  
16162 Pathogen[ P03363] interacts with 2 human partners:{Q99717;O15198}  
16163 [Cluster 1470]GO:0035666+P biological\_process [name] TRIF-dependent toll-like receptor signaling pathway [def] "Any series of molecular signals generated as a consequence of binding to a toll-like receptor where the TRIF adaptor mediates transduction of the signal. Toll-like receptors directly bind pattern motifs from a variety of microbial sources to initiate innate immune response." [GOC  
16164 Pathogen[ Q2Q067] interacts with 28 human partners:{P01100;Q8IUC6;Q92985;Q15653;Q04206;Q9NYJ8;Q8N5C8;O75582;Q14653;Q9Y6K9;Q13114;P19419;P19838;P15336;P25963;P0CG47;O14920;P45984;Q00653;P0CG48;O43318;P62987;O15111;Q15759;Q16829;Q02078;Q15750;P62979}  
16165 Pathogen[ P0C214] interacts with 32 human partners:{Q00653;O15111;Q9Y6K9;P19838;P15336;Q8IUC6;Q14164;P01100;P19419;Q04206;Q15653;O43318;Q02078;Q8N5C8;Q92985;P0CG48;P25963;Q16829;Q14653;O75582;P62987;Q15750;P05412;Q13114;Q15759;P0CG47;P45984;P16220;P62979;O14920;Q9NYJ8;P18846}  
16166 Pathogen[ P03346] interacts with 33 human partners:{Q9Y6K9;P05412;P45984;Q02078;O15111;P16220;P15336;P62987;P25963;Q15653;P19419;P0CG48;Q04206;Q13114;Q8N5C8;Q9NYJ8;O75582;Q15750;Q14653;Q16829;P62979;Q8IUC6;Q15759;P0CG47;P45985;P19838;O14920;O43318;Q92985;P01100;Q14164;P18846;Q00653}  
16167 Pathogen[ Q85601] interacts with 32 human partners:{Q02078;Q15750;Q9NYJ8;Q8IUC6;O15111;P19419;Q16829;P18846;P0CG48;Q15653;Q13114;Q8N5C8;P01100;Q14653;Q14164;Q9Y6K9;P16220;O14920;Q04206;P05412;Q92985;O75582;P62979;Q15759;P0CG47;P45984;P62987;Q00653;P15336;O43318;P19838;P25963}  
16168 Pathogen[ P14079] interacts with 32 human partners:{Q8N5C8;Q02078;P0CG48;Q06413;O43187;P53779;Q14653;P52564;O75582;Q16829;Q8IUC6;Q92985;Q14164;Q15750;P62979;P62987;P45984;P45983;Q16644;Q15759;Q9Y6K9;P45985;P15336;Q9Y6Y9;Q13164;P05412;P0CG47;Q9Y239;P01100;P19419;Q13114;Q15653}  
16169 Pathogen[ P03383] interacts with 30 human partners:{O75582;Q14653;P16220;Q9Y6K9;P62987;Q8IUC6;Q00653;O14920;O15111;P19419;P18846;Q15653;O43318;Q8N5C8;Q92985;Q15759;P25963;P01100;P62979;P0CG47;Q04206;P45984;P0CG48;P15336;Q9NYJ8;P19838;Q13114;Q02078;Q15750;P05412}  
16170 Pathogen[ P03410] interacts with 35 human partners:{Q04206;P19838;P0CG48;O14920;Q9Y239;P19419;O15111;Q15750;O75582;Q14653;O43187;Q15653;P62979;P01100;P18846;O43318;Q16829;P45985;Q9NYJ8;Q8N5C8;P16220;P05412;Q9Y6Y9;P45984;P62987;P53779;Q02078;Q8IUC6;Q00653;Q9Y6K9;P25963;Q92985;P15336;P0CG47;Q13114}  
16171 Pathogen[ P14075] interacts with 30 human partners:{O15111;Q04206;Q15750;P05412;Q15759;O75582;P19419;P15336;Q15653;P25963;Q8N5C8;O14920;P0CG48;P62979;Q14653;O43318;P62987;Q13114;Q02078;Q8IUC6;P01100;P0CG47;P19838;Q00653;P16220;Q9Y6K9;Q92985;P18846;P45984;Q9NYJ8}  
16172 Pathogen[ P0C206] interacts with 33 human partners:{P0CG48;O14920;Q9Y6K9;Q13114;Q02078;P16220;Q8N5C8;O75582;P45984;P05412;P25963;P19419;O43318;P15336;Q15653;P18846;Q16829;P19838;Q14164;Q92985;P01100;Q04206;O15111;P62979;Q9NYJ8;P45985;P0CG47;Q8IUC6;Q00653;Q15750;P62987;Q15759;Q14653}  
16173 Pathogen[ P03363] interacts with 24 human partners:{Q14653;Q92985;O14920;Q04206;P25963;O15111;Q9NYJ8;P16220;Q9Y6K9;P19419;O43318;Q15750;P15336;Q15653;Q16829;Q00653;P18846;P62987;P19838;Q13114;P05412;Q8N5C8;P01100;Q02078}  
16174 [Cluster 1471]GO:0008625+P biological\_process [name] induction of apoptosis via death domain receptors [def] "Any process that directly activates any of the steps required for cell death by apoptosis as a result of a death receptor binding to one of its physiological ligands." [GOC  
16175 Pathogen[ Q2Q067] interacts with 9 human partners:{Q9NR28;P55957;Q8WXF8;Q00994;Q9UER7;Q13158;O75618;P78560;Q9UKL3}  
16176 Pathogen[ P0C214] interacts with 10 human partners:{Q8WXF8;O75618;Q13158;Q00994;P55957;Q9UKL3;Q9UER7;P42574;P78560;Q9NR28}  
16177 Pathogen[ P03346] interacts with 10 human partners:{Q13158;Q9NR28;Q8WXF8;P55957;P42574;Q00994;P78560;Q9UKL3;O75618;Q9UER7}  
16178 Pathogen[ Q85601] interacts with 9 human partners:{Q9UKL3;Q13158;Q9UER7;Q9NR28;O75618;P55957;Q8WXF8;Q00994;P78560}  
16179 Pathogen[ P14079] interacts with 8 human partners:{O75618;Q00994;Q9UKL3;Q9UER7;Q9NR28;Q13158;Q8WXF8;P55957}  
16180 Pathogen[ P03383] interacts with 9 human partners:{Q9UKL3;O75618;P55957;Q13158;P78560;Q00994;Q9UER7;Q8WXF8;Q9NR28}  
16181 Pathogen[ P03410] interacts with 9 human partners:{Q8WXF8;P78560;Q9NR28;P55957;Q13158;Q00994;Q9UER7;Q9UKL3;O75618}  
16182 Pathogen[ P14075] interacts with 9 human partners:{P78560;P55957;Q00994;Q9NR28;Q9UKL3;O75618;Q13158;Q8WXF8;Q9UER7}  
16183 Pathogen[ P0C206] interacts with 10 human partners:{Q9NR28;Q9UKL3;P78560;Q9UER7;O75618;Q13158;Q00994;Q8WXF8;P42574;P55957}  
16184 Pathogen[ P03363] interacts with 9 human

16185 partners:{P55957;O75618;Q9UER7;Q13158;Q9NR28;Q9UKL3;Q00994;P78560;Q8WXF8}  
[Cluster 1472]GO:0042326+P biological\_process [name] negative regulation of phosphorylation [def] "Any process that stops, prevents or decreases the rate of addition of phosphate groups to a molecule." [GOC

16186 Pathogen[ Q2Q067] interacts with 10 human  
partners: {P42773;Q86XL3;P63167;O15265;P38936;P42771;Q9H875;P46527;P49918;P42772}

16187 Pathogen[ P0C214] interacts with 10 human  
partners: {Q9H875;P46527;P38936;P49918;Q86XL3;P42771;P42773;O15265;P42772;P63167}

16188 Pathogen[ P03346] interacts with 13 human  
partners: {O15265;P55273;Q13489;Q13322;P42772;P49918;P42771;Q9H875;P42773;P63167;P38936;Q86XL3;P46527}

16189 Pathogen[ Q85601] interacts with 11 human  
partners: {P55273;O15265;P42772;Q86XL3;Q9H875;P42771;P42773;P49918;P38936;P63167;P46527}

16190 Pathogen[ P14079] interacts with 10 human  
partners: {Q86XL3;P49918;P55273;P38936;Q9H875;P63167;O15265;P46527;P42773;P42771}

16191 Pathogen[ P03383] interacts with 7 human  
partners: {P42772;O15265;P46527;P42771;P49918;P63167;Q9H875}

16192 Pathogen[ P03410] interacts with 11 human  
partners: {Q9H875;P42771;P46527;P42772;P55273;P63167;P38936;O15265;P49918;P42773;Q86XL3}

16193 Pathogen[ P14075] interacts with 7 human  
partners: {O15265;P42771;P46527;P49918;P42772;P63167;Q9H875}

16194 Pathogen[ P0C206] interacts with 12 human  
partners: {Q86XL3;P63167;O15265;P42771;P42772;P42773;P55273;P46527;P38936;Q13489;Q9H875;P49918}

16195 Pathogen[ P03363] interacts with 9 human  
partners: {P49918;Q9H875;P63167;P42772;Q13489;O15265;P42773;Q86XL3;P42771}

16196 [Cluster 1473]GO:0090086+P biological\_process [name] negative regulation of protein deubiquitination [def] "Any process that decreases the frequency, rate or extent of protein deubiquitination. Protein deubiquitination is the removal of one or more ubiquitin groups from a protein." [GOC

16197 Pathogen[ Q2Q067] interacts with 1 human partners: {P19474}

16198 Pathogen[ P0C214] interacts with 1 human partners: {P19474}

16199 Pathogen[ P03346] interacts with 2 human partners: {P25686;P19474}

16200 Pathogen[ Q85601] interacts with 1 human partners: {P19474}

16201 Pathogen[ P14079] interacts with 1 human partners: {P19474}

16202 Pathogen[ P03383] interacts with 1 human partners: {P19474}

16203 Pathogen[ P03410] interacts with 1 human partners: {P25686}

16204 Pathogen[ P14075] interacts with 1 human partners: {P19474}

16205 Pathogen[ P0C206] interacts with 1 human partners: {P19474}

16206 Pathogen[ P03363] interacts with 1 human partners: {P19474}

16207 [Cluster 1474]GO:0018105+P biological\_process [name] peptidyl-serine phosphorylation [def] "The phosphorylation of peptidyl-serine to form peptidyl-O-phospho-L-serine." [RESID

16208 Pathogen[ Q2Q067] interacts with 5 human  
partners: {P31749;Q13233;O95271;P21675;Q9HAW4}

16209 Pathogen[ P0C214] interacts with 5 human  
partners: {P21675;Q9HAW4;Q13233;O95271;P31749}

16210 Pathogen[ P03346] interacts with 6 human  
partners: {Q14149;Q9HAW4;P31749;Q13233;P21675;O95271}

16211 Pathogen[ Q85601] interacts with 6 human  
partners: {P31749;Q14149;Q9HAW4;P21675;Q13233;O95271}

16212 Pathogen[ P14079] interacts with 9 human  
partners: {O95271;Q15078;Q14149;P45983;Q9HAW4;Q16644;Q5H9T9;Q13164;P21675}

16213 Pathogen[ P03383] interacts with 5 human  
partners: {Q13233;P31749;Q9HAW4;P21675;O95271}

16214 Pathogen[ P03410] interacts with 7 human  
partners: {P21675;Q14149;P31749;Q9HAW4;Q13233;O95271;Q5H9T9}

16215 Pathogen[ P14075] interacts with 5 human  
partners: {P21675;Q9HAW4;P31749;O95271;Q13233}

16216 Pathogen[ P0C206] interacts with 7 human  
partners: {O95271;P31749;Q13233;Q5H9T9;Q14149;Q9HAW4;P21675}

16217 Pathogen[ P03363] interacts with 5 human  
partners: {Q9HAW4;P31749;O95271;P21675;Q13233}

16218 [Cluster 1475]GO:2000811+P biological\_process [name] negative regulation of anoikis [def] "Any process that stops, prevents or reduces the frequency, rate or extent of anoikis." [GOC

16219 Pathogen[ Q2Q067] interacts with 2 human partners: {Q9Y3E5;Q04724}

16220 Pathogen[ P0C214] interacts with 2 human partners: {Q04724;Q9Y3E5}

16221 Pathogen[ P03346] interacts with 3 human partners: {Q9Y3E5;Q04724;Q07820}

16222 Pathogen[ Q85601] interacts with 2 human partners: {Q04724;Q9Y3E5}

16223 Pathogen[ P14079] interacts with 2 human partners: {Q9Y3E5;Q04724}

16224 Pathogen[ P03383] interacts with 2 human partners: {Q04724;Q9Y3E5}

16225 Pathogen[ P03410] interacts with 2 human partners: {Q04724;Q9Y3E5}

16226 Pathogen[ P14075] interacts with 2 human partners: {Q9Y3E5;Q04724}

16227 Pathogen[ P0C206] interacts with 2 human partners:{Q04724;Q9Y3E5}  
16228 Pathogen[ P03363] interacts with 3 human partners:{Q04724;Q07820;Q9Y3E5}  
16229 [Cluster 1476]GO:0019985+P biological\_process [name] translesion synthesis [def] "The replication of damaged DNA by synthesis across a lesion in the template strand\_ a specialized DNA polymerase or replication complex inserts a defined nucleotide across from the lesion which allows DNA synthesis to continue beyond the lesion. This process can be mutagenic depending on the damaged nucleotide and the inserted nucleotide." [GOC  
16230 Pathogen[ Q2Q067] interacts with 5 human partners:{Q9NZJ0;P12004;Q15004;Q9H040;Q6NZ36}  
16231 Pathogen[ P0C214] interacts with 4 human partners:{Q9H040;Q6NZ36;Q9NZJ0;Q15004}  
16232 Pathogen[ P03346] interacts with 5 human partners:{Q9NZJ0;P12004;Q15004;Q6NZ36;Q9H040}  
16233 Pathogen[ Q85601] interacts with 5 human partners:{Q15004;Q9H040;Q6NZ36;Q9NZJ0;P12004}  
16234 Pathogen[ P14079] interacts with 6 human partners:{Q5QGS0;Q9H040;Q6NZ36;Q9NZJ0;P12004;Q15004}  
16235 Pathogen[ P03383] interacts with 3 human partners:{Q9NZJ0;Q15004;Q9H040}  
16236 Pathogen[ P03410] interacts with 6 human partners:{Q5QGS0;Q9H040;Q15004;Q6NZ36;P12004;Q9NZJ0}  
16237 Pathogen[ P14075] interacts with 3 human partners:{Q9H040;Q9NZJ0;Q15004}  
16238 Pathogen[ P0C206] interacts with 5 human partners:{Q6NZ36;Q9NZJ0;Q9H040;Q15004;P12004}  
16239 Pathogen[ P03363] interacts with 4 human partners:{Q6NZ36;Q15004;Q9H040;Q9NZJ0}  
16240 [Cluster 1477]GO:2000016+P biological\_process [name] negative regulation of determination of dorsal identity [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of determination of dorsal identity." [GOC  
16241 Pathogen[ Q2Q067] interacts with 1 human partners:{P35638}  
16242 Pathogen[ P0C214] interacts with 1 human partners:{P35638}  
16243 Pathogen[ P03346] interacts with 1 human partners:{P35638}  
16244 Pathogen[ Q85601] interacts with 1 human partners:{P35638}  
16245 Pathogen[ P14079] interacts with 1 human partners:{P35638}  
16246 Pathogen[ P03383] interacts with 1 human partners:{P35638}  
16247 Pathogen[ P03410] interacts with 1 human partners:{P35638}  
16248 Pathogen[ P14075] interacts with 1 human partners:{P35638}  
16249 Pathogen[ P0C206] interacts with 1 human partners:{P35638}  
16250 Pathogen[ P03363] interacts with 1 human partners:{P35638}  
16251 [Cluster 1478]GO:0031532+P biological\_process [name] actin cytoskeleton reorganization [def] "A process that is carried out at the cellular level which results in dynamic structural changes to the arrangement of constituent parts of cytoskeletal structures comprising actin filaments and their associated proteins." [GOC  
16252 Pathogen[ Q2Q067] interacts with 4 human partners:{Q96EV8;P35579;Q6R327;Q14693}  
16253 Pathogen[ P0C214] interacts with 3 human partners:{Q6R327;Q96EV8;Q14693}  
16254 Pathogen[ P03346] interacts with 6 human partners:{P35579;Q96EV8;Q12929;Q6R327;Q9NP85;Q14693}  
16255 Pathogen[ Q85601] interacts with 3 human partners:{P35579;Q96EV8;Q14693}  
16256 Pathogen[ P14079] interacts with 6 human partners:{Q6R327;Q12929;P35579;Q14693;Q9NP85;Q96EV8}  
16257 Pathogen[ P03383] interacts with 3 human partners:{Q96EV8;P35579;Q14693}  
16258 Pathogen[ P03410] interacts with 6 human partners:{P35579;Q9NP85;Q14693;Q6R327;Q96EV8;Q12929}  
16259 Pathogen[ P14075] interacts with 4 human partners:{Q6R327;P35579;Q96EV8;Q14693}  
16260 Pathogen[ P0C206] interacts with 5 human partners:{Q6R327;Q96EV8;P35579;Q14693;Q9NP85}  
16261 Pathogen[ P03363] interacts with 3 human partners:{P35579;Q12929;Q6R327}  
16262 [Cluster 1479]GO:0045333+P biological\_process [name] cellular respiration [def] "The enzymatic release of energy from organic compounds (especially carbohydrates and fats) which either requires oxygen (aerobic respiration) or does not (anaerobic respiration)." [ISBN  
16263 Pathogen[ Q2Q067] interacts with 3 human partners:{Q14934;P99999;Q12968}  
16264 Pathogen[ P0C214] interacts with 5 human partners:{Q969Z0;P28331;Q12968;P99999;Q14934}  
16265 Pathogen[ P03346] interacts with 3 human partners:{Q14934;P99999;Q12968}  
16266 Pathogen[ Q85601] interacts with 4 human partners:{P99999;Q969Z0;Q14934;Q12968}  
16267 Pathogen[ P14079] interacts with 11 human partners:{O43181;Q9NYY8;Q12887;Q12968;Q53R41;Q7L8L6;Q14CZ7;Q14934;Q969Z0;Q96KJ9;P99999}  
16268 Pathogen[ P03383] interacts with 4 human partners:{Q969Z0;Q14934;Q12968;P99999}  
16269 Pathogen[ P03410] interacts with 11 human partners:{Q96KJ9;Q7L8L6;Q53R41;Q9NYY8;Q12968;P99999;O43181;Q14CZ7;Q12887;Q969Z0;Q14934}  
16270 Pathogen[ P14075] interacts with 4 human partners:{Q969Z0;P99999;Q14934;Q12968}  
16271 Pathogen[ P0C206] interacts with 6 human partners:{P99999;Q12968;Q969Z0;Q14934;Q9NYY8;Q7L8L6}  
16272 Pathogen[ P03363] interacts with 3 human partners:{P99999;Q12968;Q14934}  
16273 [Cluster 1480]GO:0045732+P biological\_process [name] positive regulation of protein catabolic process [def] "Any process that activates or increases the frequency, rate

or extent of the chemical reactions and pathways resulting in the breakdown of a protein by the destruction of the native, active configuration, with or without the hydrolysis of peptide bonds." [GOC

16274 Pathogen[ Q2Q067] interacts with 10 human  
partners: {Q96J02;Q9Y4P1;Q96DX5;Q9NYF0;Q99728;Q96KS0;Q9UM11;Q13620;Q8IUR6;P46527}

16275 Pathogen[ P0C214] interacts with 11 human  
partners: {Q96J02;Q99728;Q13620;Q9Y4P1;Q96KS0;P46527;Q96DX5;Q8IUR6;Q9UM11;Q9NYF0;P55072}

16276 Pathogen[ P03346] interacts with 14 human  
partners: {Q13596;Q96J02;Q9Y4P1;Q9UM11;Q99728;Q8IUR6;Q969G9;P55072;Q13620;Q96DX5;Q06190;Q9NYF0;Q96KS0;P46527}

16277 Pathogen[ Q85601] interacts with 11 human  
partners: {Q13596;Q96J02;Q8IUR6;Q9Y4P1;Q9NYF0;Q99728;Q96DX5;Q96KS0;Q9UM11;Q13620;P46527}

16278 Pathogen[ P14079] interacts with 12 human  
partners: {Q13620;Q9Y4P1;Q9UM11;P46695;Q96DX5;Q96J02;Q13596;Q06190;P46527;Q96KS0;Q8IUR6;Q9NYF0}

16279 Pathogen[ P03383] interacts with 8 human  
partners: {Q8IUR6;Q9Y4P1;Q96DX5;Q96KS0;P46527;Q9UM11;Q9NYF0;Q13620}

16280 Pathogen[ P03410] interacts with 12 human  
partners: {P46527;Q13596;Q96KS0;Q9Y4P1;Q13620;Q96DX5;Q06190;Q9UM11;Q969G9;Q9NYF0;Q8IUR6;P46695}

16281 Pathogen[ P14075] interacts with 8 human  
partners: {Q96KS0;Q9UM11;Q9Y4P1;Q13620;P46527;Q96DX5;Q9NYF0;Q8IUR6}

16282 Pathogen[ P0C206] interacts with 14 human  
partners: {Q06190;Q8IUR6;Q96DX5;Q96KS0;Q9Y4P1;Q96J02;Q13596;Q13620;Q99728;P46527;Q9UM11;P55072;Q9NYF0;Q969G9}

16283 Pathogen[ P03363] interacts with 10 human  
partners: {Q06190;Q969G9;Q9NYF0;Q9UM11;Q13620;Q8IUR6;Q96DX5;Q13596;Q9Y4P1;Q99728}

16284 [Cluster 1481]GO:0036261+P

16285 Pathogen[ Q2Q067] interacts with 1 human partners: {Q96RS0}

16286 Pathogen[ P0C214] interacts with 1 human partners: {Q96RS0}

16287 Pathogen[ P03346] interacts with 1 human partners: {Q96RS0}

16288 Pathogen[ Q85601] interacts with 1 human partners: {Q96RS0}

16289 Pathogen[ P14079] interacts with 1 human partners: {Q96RS0}

16290 Pathogen[ P03383] interacts with 1 human partners: {Q96RS0}

16291 Pathogen[ P03410] interacts with 1 human partners: {Q96RS0}

16292 Pathogen[ P14075] interacts with 1 human partners: {Q96RS0}

16293 Pathogen[ P0C206] interacts with 1 human partners: {Q96RS0}

16294 Pathogen[ P03363] interacts with 1 human partners: {Q96RS0}

16295 [Cluster 1482]GO:0006183+P biological\_process [name] GTP biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of GTP, guanosine triphosphate." [ISBN

16296 Pathogen[ Q2Q067] interacts with 1 human partners: {P22392}

16297 Pathogen[ P0C214] interacts with 1 human partners: {P22392}

16298 Pathogen[ P03346] interacts with 1 human partners: {P22392}

16299 Pathogen[ Q85601] interacts with 1 human partners: {P22392}

16300 Pathogen[ P14079] interacts with 2 human partners: {P22392;Q86XW9}

16301 Pathogen[ P03383] interacts with 1 human partners: {P22392}

16302 Pathogen[ P03410] interacts with 1 human partners: {Q86XW9}

16303 Pathogen[ P14075] interacts with 1 human partners: {P22392}

16304 Pathogen[ P0C206] interacts with 2 human partners: {P22392;Q86XW9}

16305 Pathogen[ P03363] interacts with 1 human partners: {Q86XW9}

16306 [Cluster 1483]GO:0051716+P biological\_process [name] cellular response to stimulus [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a stimulus. The process begins with detection of the stimulus by a cell and ends with a change in state or activity of the cell." [GOC

16307 Pathogen[ Q2Q067] interacts with 5 human  
partners: {P49770;Q9UI10;Q14232;Q9NR50;Q13144}

16308 Pathogen[ P0C214] interacts with 5 human  
partners: {Q9UI10;P49770;Q14232;Q9NR50;Q13144}

16309 Pathogen[ P03346] interacts with 5 human  
partners: {Q14232;P49770;Q13144;Q9NR50;Q9UI10}

16310 Pathogen[ Q85601] interacts with 5 human  
partners: {Q9NR50;Q13144;P49770;Q14232;Q9UI10}

16311 Pathogen[ P14079] interacts with 4 human partners: {Q9UI10;Q13144;Q9NR50;Q14232}

16312 Pathogen[ P03383] interacts with 5 human  
partners: {Q9UI10;Q13144;Q9NR50;P49770;Q14232}

16313 Pathogen[ P03410] interacts with 5 human  
partners: {Q9NR50;Q14232;P49770;Q9UI10;Q13144}

16314 Pathogen[ P14075] interacts with 5 human  
partners: {Q9UI10;Q14232;P49770;Q9NR50;Q13144}

16315 Pathogen[ P0C206] interacts with 5 human  
partners: {Q14232;Q9NR50;Q13144;P49770;Q9UI10}

16316 Pathogen[ P03363] interacts with 4 human partners: {Q9UI10;Q9NR50;P49770;Q13144}

16317 [Cluster 1484]GO:0050885+P biological\_process [name] neuromuscular process controlling balance [def] "Any process that an organism uses to control its balance, the orientation of the organism (or the head of the organism) in relation to the source of gravity. In humans and animals, balance is perceived through visual cues, the labyrinth system of the inner ears and information from skin pressure receptors and muscle and joint receptors." [GOC

16318 Pathogen[ Q2Q067] interacts with 4 human partners:{Q12837;P78352;Q9Y6N9;O60934}

16319 Pathogen[ POC214] interacts with 6 human partners:{Q9Y6N9;P78352;P35580;Q12837;P49588;Q6Y7W6}

16320 Pathogen[ P03346] interacts with 5 human partners:{Q9Y6N9;P78352;Q12837;O60934;Q15319}

16321 Pathogen[ Q85601] interacts with 6 human partners:{Q6Y7W6;Q9Y6N9;P78352;P35580;Q12837;O60934}

16322 Pathogen[ P14079] interacts with 6 human partners:{O14773;Q6Y7W6;O60934;Q12837;Q9Y6N9;P49588}

16323 Pathogen[ P03383] interacts with 3 human partners:{Q12837;P35580;P78352}

16324 Pathogen[ P03410] interacts with 8 human partners:{P49588;Q9Y6N9;P35580;Q6Y7W6;Q9UBY8;Q12837;P78352;O60934}

16325 Pathogen[ P14075] interacts with 2 human partners:{Q12837;P78352}

16326 Pathogen[ POC206] interacts with 6 human partners:{P78352;Q9Y6N9;O60934;Q6Y7W6;Q12837;P35580}

16327 Pathogen[ P03363] interacts with 5 human partners:{Q9Y6N9;P78352;Q9C056;Q12837;Q15319}

16328 [Cluster 1485]GO:0007127+P biological\_process [name] meiosis I [def] "A cell cycle process comprising the steps by which a cell progresses through the first phase of meiosis, in which cells divide and homologous chromosomes are paired and segregated from each other, producing two daughter cells." [GOC

16329 Pathogen[ Q2Q067] interacts with 3 human partners:{Q14674;Q9UNM6;P33552}

16330 Pathogen[ POC214] interacts with 3 human partners:{Q9UNM6;P33552;Q14674}

16331 Pathogen[ P03346] interacts with 3 human partners:{P33552;Q9UNM6;Q14674}

16332 Pathogen[ Q85601] interacts with 3 human partners:{Q9UNM6;Q14674;P33552}

16333 Pathogen[ P14079] interacts with 3 human partners:{Q14674;P33552;Q9UNM6}

16334 Pathogen[ P03383] interacts with 3 human partners:{P33552;Q14674;Q9UNM6}

16335 Pathogen[ P03410] interacts with 3 human partners:{Q14674;P33552;Q9UNM6}

16336 Pathogen[ P14075] interacts with 3 human partners:{Q14674;Q9UNM6;P33552}

16337 Pathogen[ POC206] interacts with 3 human partners:{Q9UNM6;P33552;Q14674}

16338 Pathogen[ P03363] interacts with 2 human partners:{P33552;Q14674}

16339 [Cluster 1486]GO:0044257+P biological\_process [name] cellular protein catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of a protein by individual cells." [GOC

16340 Pathogen[ Q2Q067] interacts with 4 human partners:{O43255;Q9UBF1;O96017;P43356}

16341 Pathogen[ POC214] interacts with 5 human partners:{O96017;Q9UBF1;P43356;O95155;O43255}

16342 Pathogen[ P03346] interacts with 5 human partners:{O96017;O95155;Q9UBF1;O43255;P43356}

16343 Pathogen[ Q85601] interacts with 5 human partners:{O96017;O95155;Q9UBF1;P43356;O43255}

16344 Pathogen[ P14079] interacts with 2 human partners:{P43356;Q9UBF1}

16345 Pathogen[ P03383] interacts with 4 human partners:{O43255;Q9UBF1;P43356;O96017}

16346 Pathogen[ P03410] interacts with 4 human partners:{Q9UBF1;O96017;Q9UBY8;P43356}

16347 Pathogen[ P14075] interacts with 4 human partners:{Q9UBF1;O43255;O96017;P43356}

16348 Pathogen[ POC206] interacts with 5 human partners:{O43255;P43356;O96017;O95155;Q9UBF1}

16349 Pathogen[ P03363] interacts with 5 human partners:{O95155;Q9UBF1;O96017;O43255;P43356}

16350 [Cluster 1487]GO:0033132+P biological\_process [name] negative regulation of glucokinase activity [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of glucokinase activity, the catalysis of the transfer of a phosphate group, usually from ATP, to a glucose molecule." [GOC

16351 Pathogen[ Q2Q067] interacts with 1 human partners:{Q14397}

16352 Pathogen[ POC214] interacts with 1 human partners:{Q14397}

16353 Pathogen[ P03346] interacts with 1 human partners:{Q14397}

16354 Pathogen[ Q85601] interacts with 1 human partners:{Q14397}

16355 Pathogen[ P14079] interacts with 1 human partners:{Q14397}

16356 Pathogen[ P03383] interacts with 1 human partners:{Q14397}

16357 Pathogen[ P03410] interacts with 1 human partners:{Q14397}

16358 Pathogen[ P14075] interacts with 1 human partners:{Q14397}

16359 Pathogen[ POC206] interacts with 1 human partners:{Q14397}

16360 Pathogen[ P03363] interacts with 1 human partners:{Q14397}

16361 [Cluster 1488]GO:0002230+P biological\_process [name] positive regulation of defense response to virus by host [def] "Any host process that results in the promotion of antiviral immune response mechanisms, thereby limiting viral replication." [GOC

16362 Pathogen[ Q2Q067] interacts with 2 human partners:{O14862;Q9HC16}

16363 Pathogen[ POC214] interacts with 3 human partners:{Q9HC16;Q86WV6;O14862}

16364 Pathogen[ P03346] interacts with 1 human partners:{O14862}

16365 Pathogen[ Q85601] interacts with 3 human partners:{Q86WV6;Q9HC16;O14862}

16366 Pathogen[ P14079] interacts with 4 human partners:{Q9HC16;Q7Z434;Q86WV6;O14862}  
16367 Pathogen[ P03383] interacts with 1 human partners:{O14862}  
16368 Pathogen[ P03410] interacts with 4 human partners:{O14862;Q7Z434;Q9HC16;Q86WV6}  
16369 Pathogen[ P14075] interacts with 1 human partners:{O14862}  
16370 Pathogen[ P0C206] interacts with 3 human partners:{O14862;Q86WV6;Q9HC16}  
16371 Pathogen[ P03363] interacts with 1 human partners:{O14862}  
16372 [Cluster 1489]GO:0008054+P biological\_process [name] cyclin catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of cyclins, proteins whose levels in a cell varies markedly during the cell cycle, and which play key roles in regulating cell cycle phase transitions." [GOC  
16373 Pathogen[ Q2Q067] interacts with 3 human partners:{O00762;Q13618;Q9UJX6}  
16374 Pathogen[ P0C214] interacts with 4 human partners:{Q9UJX6;O00762;Q13618;Q5XUX0}  
16375 Pathogen[ P03346] interacts with 4 human partners:{Q13618;Q9UJX6;O00762;Q5XUX0}  
16376 Pathogen[ Q85601] interacts with 3 human partners:{Q9UJX6;O00762;Q13618}  
16377 Pathogen[ P14079] interacts with 4 human partners:{Q5XUX0;Q13618;Q9UJX6;O00762}  
16378 Pathogen[ P03383] interacts with 4 human partners:{Q9UJX6;O00762;Q13618;Q5XUX0}  
16379 Pathogen[ P03410] interacts with 4 human partners:{Q5XUX0;Q13618;O00762;Q9UJX6}  
16380 Pathogen[ P14075] interacts with 4 human partners:{Q13618;Q9UJX6;O00762;Q5XUX0}  
16381 Pathogen[ P0C206] interacts with 4 human partners:{Q13618;O00762;Q9UJX6;Q5XUX0}  
16382 Pathogen[ P03363] interacts with 4 human partners:{O00762;Q13618;Q9UJX6;Q5XUX0}  
16383 [Cluster 1490]GO:0021571+P biological\_process [name] rhombomere 5 development [def] "The process whose specific outcome is the progression of rhombomere 5 over time, from its formation to the mature structure. Rhombomeres are transverse segments of the developing rhombencephalon. Rhombomeres are lineage restricted, express different genes from one another, and adopt different developmental fates. Rhombomeres are numbered in anterior to posterior order." [GO\_REF  
16384 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9Y5Q3;P49639;P14653}  
16385 Pathogen[ P0C214] interacts with 3 human partners:{P49639;Q9Y5Q3;P14653}  
16386 Pathogen[ P03346] interacts with 3 human partners:{P49639;Q9Y5Q3;P14653}  
16387 Pathogen[ Q85601] interacts with 3 human partners:{P49639;P14653;Q9Y5Q3}  
16388 Pathogen[ P14079] interacts with 2 human partners:{Q9Y5Q3;P49639}  
16389 Pathogen[ P03383] interacts with 2 human partners:{Q9Y5Q3;P49639}  
16390 Pathogen[ P03410] interacts with 2 human partners:{Q9Y5Q3;P49639}  
16391 Pathogen[ P14075] interacts with 1 human partners:{Q9Y5Q3}  
16392 Pathogen[ P0C206] interacts with 3 human partners:{Q9Y5Q3;P49639;P14653}  
16393 Pathogen[ P03363] interacts with 3 human partners:{P49639;P14653;Q9Y5Q3}  
16394 [Cluster 1491]GO:0030851+P biological\_process [name] granulocyte differentiation [def] "The process in which a myeloid precursor cell acquires the specialized features of a granulocyte. Granulocytes are a class of leukocytes characterized by the presence of granules in their cytoplasm. These cells are active in allergic immune reactions such as arthritic inflammation and rashes. This class includes basophils, eosinophils and neutrophils." [GOC  
16395 Pathogen[ Q2Q067] interacts with 5 human partners:{O75081;Q02447;Q8N5F7;Q8IX07;P17947}  
16396 Pathogen[ P0C214] interacts with 5 human partners:{Q8N5F7;P17947;Q8IX07;Q02447;O75081}  
16397 Pathogen[ P03346] interacts with 5 human partners:{Q8N5F7;Q8IX07;P17947;Q02447;O75081}  
16398 Pathogen[ Q85601] interacts with 5 human partners:{Q8N5F7;Q8IX07;Q02447;P17947;O75081}  
16399 Pathogen[ P14079] interacts with 4 human partners:{Q02447;Q8IX07;O75081;Q8N5F7}  
16400 Pathogen[ P03383] interacts with 4 human partners:{Q8N5F7;O75081;Q02447;P17947}  
16401 Pathogen[ P03410] interacts with 4 human partners:{Q02447;P17947;Q8IX07;O75081}  
16402 Pathogen[ P14075] interacts with 4 human partners:{Q8N5F7;O75081;P17947;Q02447}  
16403 Pathogen[ P0C206] interacts with 5 human partners:{O75081;Q02447;P17947;Q8N5F7;Q8IX07}  
16404 Pathogen[ P03363] interacts with 4 human partners:{O75081;Q02447;P17947;Q8N5F7}  
16405 [Cluster 1492]GO:0045650+P biological\_process [name] negative regulation of macrophage differentiation [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of macrophage differentiation." [GOC  
16406 Pathogen[ Q2Q067] interacts with 2 human partners:{Q13769;P23769}  
16407 Pathogen[ P0C214] interacts with 2 human partners:{Q13769;P23769}  
16408 Pathogen[ P03346] interacts with 2 human partners:{P23769;Q13769}  
16409 Pathogen[ Q85601] interacts with 2 human partners:{Q13769;P23769}  
16410 Pathogen[ P14079] interacts with 2 human partners:{Q13769;P23769}  
16411 Pathogen[ P03383] interacts with 2 human partners:{Q13769;P23769}  
16412 Pathogen[ P03410] interacts with 2 human partners:{Q13769;P23769}  
16413 Pathogen[ P14075] interacts with 2 human partners:{Q13769;P23769}  
16414 Pathogen[ P0C206] interacts with 2 human partners:{Q13769;P23769}  
16415 Pathogen[ P03363] interacts with 1 human partners:{Q13769}  
16416 [Cluster 1493]GO:0018026+P biological\_process [name] peptidyl-lysine monomethylation [def] "The methylation of peptidyl-lysine to form peptidyl-N6-methyl-L-lysine." [RESID  
16417 Pathogen[ Q2Q067] interacts with 4 human partners:{Q8TBK2;Q9NRG4;Q86TU7;Q8WTS6}  
16418 Pathogen[ P0C214] interacts with 5 human partners:{Q86TU7;Q8WTS6;Q9NQR1;Q9NRG4;Q8TBK2}  
16419 Pathogen[ P03346] interacts with 5 human



16420 partners:{Q9NQR1;Q8TBK2;Q9NRG4;Q8WTS6;Q86TU7}  
Pathogen[ Q85601] interacts with 5 human

16421 partners:{Q8TBK2;Q9NQR1;Q86TU7;Q8WTS6;Q9NRG4}  
Pathogen[ P14079] interacts with 5 human

16422 partners:{Q9NRG4;Q86TU7;Q9NQR1;Q8TBK2;Q8WTS6}  
Pathogen[ P03383] interacts with 5 human

16423 partners:{Q9NRG4;Q86TU7;Q8WTS6;Q8TBK2;Q9NQR1}  
Pathogen[ P03410] interacts with 5 human

16424 partners:{Q8WTS6;Q8TBK2;Q9NQR1;Q86TU7;Q9NRG4}  
Pathogen[ P14075] interacts with 5 human

16425 partners:{Q86TU7;Q9NQR1;Q8TBK2;Q9NRG4;Q8WTS6}  
Pathogen[ P0C206] interacts with 5 human

16426 partners:{Q9NRG4;Q86TU7;Q9NQR1;Q8WTS6;Q8TBK2}  
Pathogen[ P03363] interacts with 4 human

16427 [Cluster 1494]GO:0000002+P biological\_process [name] mitochondrial genome maintenance  
[def] "The maintenance of the structure and integrity of the mitochondrial genome\_ includes replication and segregation of the mitochondrial chromosome." [GOC

16428 Pathogen[ Q2Q067] interacts with 1 human partners:{Q02078}

16429 Pathogen[ P0C214] interacts with 1 human partners:{Q02078}

16430 Pathogen[ P03346] interacts with 1 human partners:{Q02078}

16431 Pathogen[ Q85601] interacts with 1 human partners:{Q02078}

16432 Pathogen[ P14079] interacts with 1 human partners:{Q02078}

16433 Pathogen[ P03383] interacts with 1 human partners:{Q02078}

16434 Pathogen[ P03410] interacts with 1 human partners:{Q02078}

16435 Pathogen[ P14075] interacts with 1 human partners:{Q02078}

16436 Pathogen[ P0C206] interacts with 1 human partners:{Q02078}

16437 Pathogen[ P03363] interacts with 1 human partners:{Q02078}

16438 [Cluster 1495]GO:0034587+P biological\_process [name] piRNA metabolic process [def]  
"The chemical reactions and pathways involving piRNAs, Piwi-associated RNAs, a class of 24- to 30-nucleotide RNA derived from repeat or complex DNA sequence elements and processed by a Dicer-independent mechanism." [GOC

16439 Pathogen[ Q2Q067] interacts with 1 human partners:{Q5T8I9}

16440 Pathogen[ P0C214] interacts with 1 human partners:{Q5T8I9}

16441 Pathogen[ P03346] interacts with 2 human partners:{Q5T8I9;Q96J94}

16442 Pathogen[ Q85601] interacts with 1 human partners:{Q5T8I9}

16443 Pathogen[ P14079] interacts with 1 human partners:{Q96JY0}

16444 Pathogen[ P03383] interacts with 1 human partners:{Q5T8I9}

16445 Pathogen[ P03410] interacts with 1 human partners:{Q5T8I9}

16446 Pathogen[ P14075] interacts with 1 human partners:{Q5T8I9}

16447 Pathogen[ P0C206] interacts with 1 human partners:{Q5T8I9}

16448 Pathogen[ P03363] interacts with 4 human partners:{Q7Z3Z4;Q5T8I9;Q96JY0;Q96J94}

16449 [Cluster 1496]GO:0032781+P biological\_process [name] positive regulation of ATPase activity [def] "Any process that activates or increases the rate of ATP hydrolysis by an ATPase." [GOC

16450 Pathogen[ Q2Q067] interacts with 4 human partners:{O95433;P05062;P60520;O75190}

16451 Pathogen[ P0C214] interacts with 4 human partners:{P60520;O75190;P05062;O95433}

16452 Pathogen[ P03346] interacts with 5 human  
partners:{O75190;P60520;O95433;Q96KC8;P05062}

16453 Pathogen[ Q85601] interacts with 4 human partners:{O75190;O95433;P05062;P60520}

16454 Pathogen[ P14079] interacts with 5 human  
partners:{O95433;O75190;P60520;Q15493;Q719I0}

16455 Pathogen[ P03383] interacts with 2 human partners:{O95433;O75190}

16456 Pathogen[ P03410] interacts with 6 human  
partners:{Q719I0;P60520;P05062;O75190;O95433;Q15493}

16457 Pathogen[ P14075] interacts with 2 human partners:{O95433;O75190}

16458 Pathogen[ P0C206] interacts with 5 human  
partners:{P05062;Q15493;P60520;Q719I0;O75190}

16459 Pathogen[ P03363] interacts with 3 human partners:{O75190;P60520;O95433}

16460 [Cluster 1497]GO:0060004+P biological\_process [name] reflex [def] "An automatic response to a stimulus beginning with a nerve impulse from a receptor and ending with the action of an effector such as a gland or a muscle. Signaling never reaches a level of consciousness." [GOC

16461 Pathogen[ Q2Q067] interacts with 1 human partners:{Q01826}

16462 Pathogen[ P0C214] interacts with 1 human partners:{Q01826}

16463 Pathogen[ P03346] interacts with 1 human partners:{Q01826}

16464 Pathogen[ Q85601] interacts with 1 human partners:{Q01826}

16465 Pathogen[ P14079] interacts with 1 human partners:{Q01826}

16466 Pathogen[ P03383] interacts with 1 human partners:{Q01826}

16467 Pathogen[ P03410] interacts with 1 human partners:{Q01826}

16468 Pathogen[ P14075] interacts with 1 human partners:{Q01826}

16469 Pathogen[ P0C206] interacts with 1 human partners:{Q01826}

16470 Pathogen[ P03363] interacts with 1 human partners:{Q01826}

16471 [Cluster 1498]GO:0043982+P biological\_process [name] histone H4-K8 acetylation  
[def] "The modification of histone H4 by the addition of an acetyl group to a lysine residue at position 8 of the histone." [GOC

16472 Pathogen[ Q2Q067] interacts with 6 human

16473 partners:{Q6IE81;Q9HAF1;Q96EZ8;Q9UNL4;P51610;Q7Z3B3}  
Pathogen[ POC214] interacts with 6 human

16474 partners:{P51610;Q9UNL4;Q9HAF1;O95251;Q6IE81;Q96EZ8}  
Pathogen[ P03346] interacts with 8 human

16475 partners:{Q9UNL4;Q96EZ8;P51610;Q7Z3B3;O95251;Q6IE81;Q9H7Z6;Q9HAF1}  
Pathogen[ Q85601] interacts with 7 human

16476 partners:{O95251;Q9HAF1;Q9H7Z6;Q9UNL4;P51610;Q6IE81;Q96EZ8}  
Pathogen[ P14079] interacts with 9 human

16477 partners:{O95251;Q9UNL4;Q9HAF1;Q6IE81;P51610;Q7Z3B3;Q9P2N6;Q96EZ8;Q9H9L4}  
Pathogen[ P03383] interacts with 6 human

16478 partners:{O95251;Q9UNL4;P51610;Q9HAF1;Q6IE81;Q96EZ8}  
Pathogen[ P03410] interacts with 8 human

16479 partners:{Q9P2N6;P51610;O95251;Q9UNL4;Q9H9L4;Q96EZ8;Q7Z3B3;Q6IE81}  
Pathogen[ P14075] interacts with 7 human

16480 partners:{P51610;Q7Z3B3;Q96EZ8;Q6IE81;Q9HAF1;O95251;Q9UNL4}  
Pathogen[ POC206] interacts with 10 human

16481 partners:{O95251;Q9H9L4;Q96EZ8;P51610;Q9HAF1;Q6IE81;Q9P2N6;Q7Z3B3;Q9UNL4;Q9H7Z6}  
Pathogen[ P03363] interacts with 7 human

16482 partners:{Q6IE81;Q9HAF1;Q9UNL4;Q7Z3B3;Q96EZ8;O95251;P51610}  
[Cluster 1499]GO:0000466+P biological\_process [name] maturation of 5.8S rRNA from tricistronic rRNA transcript (SSU-rRNA, 5.8S rRNA, LSU-rRNA) [def] "Any process involved in the maturation of an rRNA molecule originally produced as part of a tricistronic rRNA transcript that contained the Small SubUnit (SSU) rRNA, the 5.8S rRNA, and the Large SubUnit (LSU) rRNA, in that order, from 5' to 3' along the primary transcript." [GOC

16483 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9GZL7;O00541}  
16484 Pathogen[ POC214] interacts with 2 human partners:{O00541;Q9GZL7}  
16485 Pathogen[ P03346] interacts with 2 human partners:{O00541;Q9GZL7}  
16486 Pathogen[ Q85601] interacts with 2 human partners:{O00541;Q9GZL7}  
16487 Pathogen[ P14079] interacts with 2 human partners:{Q9GZL7;O00541}  
16488 Pathogen[ P03383] interacts with 2 human partners:{O00541;Q9GZL7}  
16489 Pathogen[ P03410] interacts with 2 human partners:{Q9GZL7;O00541}  
16490 Pathogen[ P14075] interacts with 2 human partners:{Q9GZL7;O00541}  
16491 Pathogen[ POC206] interacts with 2 human partners:{Q9GZL7;O00541}  
16492 Pathogen[ P03363] interacts with 2 human partners:{Q9GZL7;O00541}

16493 [Cluster 1500]GO:0051894+P biological\_process [name] positive regulation of focal adhesion assembly [def] "Any process that activates or increases the frequency, rate or extent of focal adhesion assembly, the establishment and maturation of focal adhesions." [GOC

16494 Pathogen[ Q2Q067] interacts with 2 human partners:{P84022;P49593}  
16495 Pathogen[ POC214] interacts with 2 human partners:{P84022;P49593}  
16496 Pathogen[ P03346] interacts with 2 human partners:{P49593;P84022}  
16497 Pathogen[ Q85601] interacts with 2 human partners:{P49593;P84022}  
16498 Pathogen[ P14079] interacts with 1 human partners:{P49593}  
16499 Pathogen[ P03383] interacts with 1 human partners:{P84022}  
16500 Pathogen[ P03410] interacts with 2 human partners:{P84022;P49593}  
16501 Pathogen[ P14075] interacts with 1 human partners:{P84022}  
16502 Pathogen[ POC206] interacts with 2 human partners:{P84022;P49593}  
16503 Pathogen[ P03363] interacts with 1 human partners:{P84022}

16504 [Cluster 1501]GO:0070869+P biological\_process [name] heterochromatin assembly involved in chromatin silencing [def] "Any process that results in the assembly of chromatin into heterochromatin and contributes to chromatin silencing." [GOC

16505 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UIF9}  
16506 Pathogen[ POC214] interacts with 1 human partners:{Q9UIF9}  
16507 Pathogen[ P03346] interacts with 1 human partners:{Q9UIF9}  
16508 Pathogen[ Q85601] interacts with 1 human partners:{Q9UIF9}  
16509 Pathogen[ P14079] interacts with 1 human partners:{Q9UIF9}  
16510 Pathogen[ P03383] interacts with 1 human partners:{Q9UIF9}  
16511 Pathogen[ P03410] interacts with 1 human partners:{Q9UIF9}  
16512 Pathogen[ P14075] interacts with 1 human partners:{Q9UIF9}  
16513 Pathogen[ POC206] interacts with 1 human partners:{Q9UIF9}  
16514 Pathogen[ P03363] interacts with 1 human partners:{Q9UIF9}

16515 [Cluster 1502]GO:0007411+P biological\_process [name] axon guidance [def] "The chemotaxis process that directs the migration of an axon growth cone to a specific target site in response to a combination of attractive and repulsive cues." [ISBN

16516 Pathogen[ Q2Q067] interacts with 44 human  
partners:{P04156;Q01082;O00213;O94973;Q12837;O14786;O95782;Q7Z460;O14639;Q9UI56;P60660;O43255;O43639;P08238;P50549;P07900;Q6H8Q1;O00401;P63010;P23528;P31948;Q96CW1;Q12959;P78352;O75582;P67870;Q00610;Q96S59;Q92796;P25063;Q9UHY8;P16333;O75122;Q99962;P31946;Q13761;P60953;Q6ZVN8;P63000;P35579;Q99689;P09496;P61586;Q14194}

16517 Pathogen[ POC214] interacts with 52 human  
partners:{Q96CW1;Q9UI08;O00213;Q13761;P60709;P32243;P63000;O14786;P16157;P62993;Q92796;P61586;P60660;O14639;P60953;A0MZ66;Q14194;P31948;Q99962;O43639;Q01082;P78352;P63010;Q9UHY8;O75122;P35580;Q12837;O14531;Q96S59;Q99689;P25063;Q12959;O75582;P16333;O94973;Q6ZVN8;P04156;Q7Z460;Q7Z406;Q9UI56;O00401;P09496;O95782;Q6H8Q1;P50549;P67870;P16220;P31946;P53680;P63261;O43255;P35749}

- 16518 Pathogen[ P03346] interacts with 64 human partners: {O00213;P02549;Q6ZVN8;P60660;P07900;P16220;O14639;P63010;O43639;P11277;P35579;P78352;P53680;P50549;Q12837;Q99689;Q99962;P60709;Q92858;O43255;O95782;P52951;P31948;P60953;P62993;Q96QS3;Q9UI08;Q6H8Q1;P09496;P16157;Q92796;Q13813;Q16650;P16333;Q01082;Q9UHY8;Q96S59;O14531;Q96CW1;Q13761;O75840;Q8IUQ4;O75582;O94929;O75122;P31946;P04156;Q9UI56;P56178;P25063;Q7Z460;P67870;P23528;Q14194;O00401;O94973;P32243;P08238;P63000;Q00610;O14786;P61586;Q12959;Q9H2A3}
- 16519 Pathogen[ Q85601] interacts with 52 human partners: {O00401;O14639;O00213;Q9UHY8;P31946;P16157;Q00610;P62993;P09496;Q14194;Q96CW1;P35579;P50549;P16333;Q99962;P63000;P31948;Q01082;O43639;Q6H8Q1;O14786;P60709;O75122;Q96S59;Q7Z406;P63261;P16220;P08238;P35749;P78352;P53680;O75582;Q92796;Q99689;P61586;P07900;P32243;O94973;Q12959;P60953;P04156;Q7Z460;P35580;P63010;P67870;P23528;P17677;O43255;P60660;Q12837;O95782;Q13761}
- 16520 Pathogen[ P14079] interacts with 57 human partners: {Q96CW1;Q9UHY8;P35579;P31948;P63261;P17677;Q00610;Q01518;Q7Z460;Q6ZVN8;Q01082;O75582;P04156;Q9UI56;O14639;A0MZ66;P40123;O94929;O00213;P16157;Q12837;P50552;Q15078;P54826;O95782;Q99689;P23528;P31946;P08238;P16333;P50549;P25063;P60660;P61586;P07900;P60709;Q14194;P63010;P11277;Q6H8Q1;O94973;P32243;P62993;O43639;P67870;Q13761;Q92796;Q96S59;Q13813;O75122;P02549;P53680;Q96B86;P09496;Q99962;O00401;Q9UI08}
- 16521 Pathogen[ P03383] interacts with 37 human partners: {Q13761;Q96CW1;O00213;Q7Z460;Q75582;P50549;Q00610;P16220;P32243;O14639;P04156;P31946;P31948;Q99689;P60953;P25063;P63000;P07900;O00401;Q6ZVN8;Q96S59;P61586;P63010;Q12837;O95782;O43255;P35580;Q9UI56;P67870;Q9UHY8;P35579;Q92796;P23528;P16333;O94973;P08238;P78352}
- 16522 Pathogen[ P03410] interacts with 64 human partners: {Q00610;O14786;P09496;Q7Z460;Q9UI56;O95782;Q96CW1;Q9UI08;P53680;Q96B86;P63000;P08238;Q96S59;P16157;Q12959;O43639;O75582;Q6H8Q1;O00401;O14639;P35579;O00213;O94929;P07900;P16333;P02549;A0MZ66;P50549;P40123;O14531;P50552;Q6ZVN8;P61586;P25063;Q92796;P04156;P16220;P31948;P54826;P63010;P60953;P35580;P32243;Q13761;P17677;Q99962;P63261;Q01082;Q14194;Q01518;P23528;Q12837;P67870;Q9UHY8;P60660;P78352;Q13813;P62993;O75122;O94973;P11277;P60709;P31946;Q99689}
- 16523 Pathogen[ P14075] interacts with 38 human partners: {P60953;O00213;P09496;O94973;Q96CW1;O75582;Q7Z460;Q12837;P04156;P08238;O43255;P23528;P16333;P07900;O00401;Q6ZVN8;Q96S59;P67870;O95782;P35579;Q92796;O14639;P61586;P50549;P63000;P63010;Q9UHY8;P78352;P16220;P31946;P31948;P32243;P54826;Q9UI56;Q00610;P25063;Q13761;Q99689}
- 16524 Pathogen[ P0C206] interacts with 63 human partners: {P53680;P63010;Q01082;P60709;P78352;O94973;P17677;O43255;P04156;P16220;O75582;Q8IUQ4;P60660;Q00610;Q9UHY8;O14531;Q99962;Q9UI08;P62993;P09496;O14786;O94929;P61586;P31946;Q99689;O75122;Q12837;O00213;P16157;P25063;P08238;P63000;P50549;P32243;Q9UI56;P07900;P63261;Q96CW1;Q6ZVN8;P67870;P35749;P35579;O00401;A0MZ66;P60953;O95782;P16333;Q14194;P11277;O14639;Q96B86;Q92796;Q96S59;Q7Z460;P54826;P31948;P35580;P23528;O43639;Q12959;Q13761;Q6H8Q1;Q9H2A3}
- 16525 Pathogen[ P03363] interacts with 53 human partners: {Q12959;Q99962;P11277;P07900;Q2VIQ3;P02549;P60709;P16157;Q14194;P35579;O14786;O00213;Q01082;P78352;P31946;P16220;Q00610;P04156;P32243;O43639;P63000;O94973;Q9UHY8;Q9UI08;P16333;Q6H8Q1;P63010;Q7Z460;P31948;Q6ZVN8;P23528;P50549;Q9UI56;O95782;O14531;P52951;O00401;P63261;P60660;Q96QS3;P67870;Q96S59;Q92796;Q13761;O43255;Q13813;Q12837;P60953;P08238;O14639;Q96CW1;Q99689;Q9H2A3}
- 16526 [Cluster 1503]GO:0072001+P biological\_process [name] renal system development [def] "The process whose specific outcome is the progression of the renal system over time, from its formation to the mature structure. The renal system maintains fluid balance and contributes to electrolyte balance, acid/base balance, and disposal of nitrogenous waste products. In humans, the renal system comprises a pair of kidneys, a pair of ureters, urinary bladder, urethra, sphincter muscle and associated blood vessels." [GOC
- 16527 Pathogen[ Q2Q067] interacts with 2 human partners: {Q04743;Q03112}
- 16528 Pathogen[ P0C214] interacts with 1 human partners: {Q03112}
- 16529 Pathogen[ P03346] interacts with 3 human partners: {Q04743;Q03112;Q15475}
- 16530 Pathogen[ Q85601] interacts with 1 human partners: {Q03112}
- 16531 Pathogen[ P14079] interacts with 1 human partners: {Q04743}
- 16532 Pathogen[ P03383] interacts with 1 human partners: {Q03112}
- 16533 Pathogen[ P03410] interacts with 2 human partners: {Q03112;Q04743}
- 16534 Pathogen[ P14075] interacts with 1 human partners: {Q03112}
- 16535 Pathogen[ P0C206] interacts with 2 human partners: {Q04743;Q03112}
- 16536 Pathogen[ P03363] interacts with 2 human partners: {Q03112;Q04743}
- 16537 [Cluster 1504]GO:0045471+P biological\_process [name] response to ethanol [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an ethanol stimulus." [GOC
- 16538 Pathogen[ Q2Q067] interacts with 14 human partners: {P24385;P40763;P30279;Q14790;P06746;P06396;P24864;P29474;Q6RSH7;O15527;P27986;P16455;P06132;P14672}
- 16539 Pathogen[ P0C214] interacts with 16 human partners: {P06132;P29474;P06746;P06396;P24385;Q9Y3R4;P16455;P24864;P30279;P40763;O15527;P22830;P14672;P27986;Q6RSH7;Q14790}
- 16540 Pathogen[ P03346] interacts with 13 human

16541 partners: {Q6RSH7;P24385;P30279;P29474;P24864;P06132;Q14790;P06396;O15527;P14672;P40763;P06746;P27986}  
Pathogen[ Q85601] interacts with 14 human  
partners: {O15527;P24385;P06396;P16455;Q14790;P40763;P27986;P30279;P06132;P29474;Q6RSH7;P06746;P14672;P24864}

16542 Pathogen[ P14079] interacts with 14 human  
partners: {P41238;P24864;P20396;P14672;P16455;O15527;P68032;P06132;Q14790;P22830;Q9Y3R4;P06746;Q6RSH7;Q16878}

16543 Pathogen[ P03383] interacts with 11 human  
partners: {P27986;P06746;P29474;O15527;P24385;Q6RSH7;P30279;P06132;P24864;P14672;P06396}

16544 Pathogen[ P03410] interacts with 17 human  
partners: {P27986;P30279;P06396;P41238;P06746;P06132;P24385;P29474;O15527;P22830;P16455;Q6RSH7;Q9Y3R4;P24864;P40763;Q9BRK5;P20396}

16545 Pathogen[ P14075] interacts with 11 human  
partners: {P29474;P06132;P30279;O15527;P06746;Q6RSH7;P27986;P06396;P24385;P14672;P24864}

16546 Pathogen[ P0C206] interacts with 18 human  
partners: {P06396;O15527;P30279;P06746;P27986;Q9Y3R4;Q6RSH7;Q14790;P22830;P40763;P29474;P14672;P41238;P20396;P24864;P16455;P06132;P24385}

16547 Pathogen[ P03363] interacts with 11 human  
partners: {P29474;O15527;P24864;P30279;P06132;P06396;Q6RSH7;P06746;P24385;P14672;P27986}

16548 [Cluster 1505]GO:0035562+P biological\_process [name] negative regulation of chromatin binding [def] "Any process that stops or reduces the frequency, rate or extent of chromatin binding. Chromatin binding is the selective interaction with chromatin, the network of fibers of DNA, protein, and sometimes RNA, that make up the chromosomes of the eukaryotic nucleus during interphase." [GOC  
16549 Pathogen[ Q2Q067] interacts with 2 human partners: {Q7Z5K2;Q13569}  
16550 Pathogen[ P0C214] interacts with 2 human partners: {Q7Z5K2;Q13569}  
16551 Pathogen[ P03346] interacts with 2 human partners: {Q7Z5K2;Q13569}  
16552 Pathogen[ Q85601] interacts with 2 human partners: {Q7Z5K2;Q13569}  
16553 Pathogen[ P14079] interacts with 2 human partners: {Q13569;Q7Z5K2}  
16554 Pathogen[ P03383] interacts with 2 human partners: {Q13569;Q7Z5K2}  
16555 Pathogen[ P03410] interacts with 2 human partners: {Q7Z5K2;Q13569}  
16556 Pathogen[ P14075] interacts with 2 human partners: {Q7Z5K2;Q13569}  
16557 Pathogen[ P0C206] interacts with 2 human partners: {Q7Z5K2;Q13569}  
16558 Pathogen[ P03363] interacts with 2 human partners: {Q13569;Q7Z5K2}

16559 [Cluster 1506]GO:0090150+P biological\_process [name] establishment of protein localization in membrane [def] "The directed movement of a protein to a specific location in a membrane." [GOC  
16560 Pathogen[ Q2Q067] interacts with 1 human partners: {P55957}  
16561 Pathogen[ P0C214] interacts with 1 human partners: {P55957}  
16562 Pathogen[ P03346] interacts with 1 human partners: {P55957}  
16563 Pathogen[ Q85601] interacts with 1 human partners: {P55957}  
16564 Pathogen[ P14079] interacts with 1 human partners: {P55957}  
16565 Pathogen[ P03383] interacts with 1 human partners: {P55957}  
16566 Pathogen[ P03410] interacts with 1 human partners: {P55957}  
16567 Pathogen[ P14075] interacts with 1 human partners: {P55957}  
16568 Pathogen[ P0C206] interacts with 1 human partners: {P55957}  
16569 Pathogen[ P03363] interacts with 1 human partners: {P55957}

16570 [Cluster 1507]GO:0031575+P biological\_process [name] mitotic cell cycle G1/S transition checkpoint [def] "A cell cycle checkpoint that blocks entry into S phase of the mitotic cell cycle." [GOC  
16571 Pathogen[ Q2Q067] interacts with 5 human  
partners: {P06400;Q12959;O60934;P42772;O60921}  
16572 Pathogen[ P0C214] interacts with 4 human partners: {O60921;Q12959;P06400;P42772}  
16573 Pathogen[ P03346] interacts with 5 human  
partners: {O60921;P06400;P42772;O60934;Q12959}  
16574 Pathogen[ Q85601] interacts with 5 human  
partners: {P06400;P42772;O60921;Q12959;O60934}  
16575 Pathogen[ P14079] interacts with 2 human partners: {O60934;O60921}  
16576 Pathogen[ P03383] interacts with 3 human partners: {P06400;O60921;P42772}  
16577 Pathogen[ P03410] interacts with 5 human  
partners: {P42772;Q12959;P06400;O60921;O60934}  
16578 Pathogen[ P14075] interacts with 3 human partners: {P06400;O60921;P42772}  
16579 Pathogen[ P0C206] interacts with 5 human  
partners: {O60934;P42772;O60921;Q12959;P06400}

16580 Pathogen[ P03363] interacts with 4 human partners: {Q12959;P06400;P42772;O60921}

16581 [Cluster 1508]GO:0032968+P biological\_process [name] positive regulation of transcription elongation from RNA polymerase II promoter [def] "Any process that activates or increases the frequency, rate or extent of transcription elongation, the extension of an RNA molecule after transcription initiation and promoter clearance by the addition of ribonucleotides, catalyzed by RNA polymerase II." [GOC  
16582 Pathogen[ Q2Q067] interacts with 9 human  
partners: {Q8WVC0;O00267;Q6PD62;Q6P1J9;Q9GZS3;Q92541;Q56P03;O60885;Q8N7H5}

16583 Pathogen[ P0C214] interacts with 9 human partners:{Q00267;Q92541;Q6P1J9;Q8N7H5;Q56P03;Q8WVC0;O60885;Q6PD62;Q9GZS3}

16584 Pathogen[ P03346] interacts with 9 human partners:{Q6PD62;Q56P03;Q8WVC0;Q92541;O00267;Q9GZS3;O60885;Q6P1J9;Q8N7H5}

16585 Pathogen[ Q85601] interacts with 9 human partners:{Q6PD62;Q56P03;Q8WVC0;Q6P1J9;Q9GZS3;Q92541;O00267;O60885;Q8N7H5}

16586 Pathogen[ P14079] interacts with 9 human partners:{Q56P03;Q92541;Q9GZS3;Q6PD62;Q8WVC0;O60885;Q6P1J9;O00267;Q8N7H5}

16587 Pathogen[ P03383] interacts with 9 human partners:{Q6P1J9;Q56P03;Q6PD62;O00267;Q8WVC0;O60885;Q92541;Q9GZS3;Q8N7H5}

16588 Pathogen[ P03410] interacts with 9 human partners:{Q8WVC0;O60885;Q6PD62;O00267;Q92541;Q9GZS3;Q8N7H5;Q6P1J9;Q56P03}

16589 Pathogen[ P14075] interacts with 9 human partners:{Q56P03;Q8WVC0;Q8N7H5;Q6P1J9;Q92541;Q6PD62;Q9GZS3;O60885;O00267}

16590 Pathogen[ P0C206] interacts with 9 human partners:{Q6PD62;Q56P03;Q92541;Q8N7H5;Q9GZS3;O60885;Q8WVC0;O00267;Q6P1J9}

16591 Pathogen[ P03363] interacts with 9 human partners:{Q9GZS3;Q8WVC0;Q56P03;O00267;O60885;Q6P1J9;Q92541;Q8N7H5;Q6PD62}

16592 [Cluster 1509]GO:0048714+P biological\_process [name] positive regulation of oligodendrocyte differentiation [def] "Any process that activates or increases the frequency, rate or extent of oligodendrocyte differentiation." [GOC

16593 Pathogen[ Q2Q067] interacts with 3 human partners:{O15350;Q92769;Q96MN9}

16594 Pathogen[ P0C214] interacts with 3 human partners:{O15350;Q96MN9;Q92769}

16595 Pathogen[ P03346] interacts with 6 human partners:{O15350;P45381;Q96MN9;Q95096;Q92769;Q13516}

16596 Pathogen[ Q85601] interacts with 3 human partners:{Q96MN9;Q92769;O15350}

16597 Pathogen[ P14079] interacts with 4 human partners:{O15350;Q96MN9;Q92769;P45381}

16598 Pathogen[ P03383] interacts with 3 human partners:{Q96MN9;Q92769;O15350}

16599 Pathogen[ P03410] interacts with 4 human partners:{P45381;Q96MN9;Q92769;O15350}

16600 Pathogen[ P14075] interacts with 3 human partners:{Q96MN9;O15350;Q92769}

16601 Pathogen[ P0C206] interacts with 4 human partners:{Q92769;Q96MN9;P45381;O15350}

16602 Pathogen[ P03363] interacts with 2 human partners:{Q13516;Q96MN9}

16603 [Cluster 1510]GO:0097178+P biological\_process [name] ruffle assembly [def] "The aggregation, arrangement and bonding together of a set of components to form a ruffle, a projection at the leading edge of a crawling cell\_ the protrusions are supported by a microfilament meshwork. The formation of ruffles (also called membrane ruffling) is thought to be controlled by a group of enzymes known as Rho GTPases, specifically RhoA, Rac1 and cdc42." [GOC

16604 Pathogen[ Q2Q067] interacts with 2 human partners:{P63000;O95429}

16605 Pathogen[ P0C214] interacts with 2 human partners:{P63000;O95429}

16606 Pathogen[ P03346] interacts with 2 human partners:{O95429;P63000}

16607 Pathogen[ Q85601] interacts with 2 human partners:{P63000;O95429}

16608 Pathogen[ P14079] interacts with 1 human partners:{O95429}

16609 Pathogen[ P03383] interacts with 2 human partners:{P63000;O95429}

16610 Pathogen[ P03410] interacts with 2 human partners:{P63000;O95429}

16611 Pathogen[ P14075] interacts with 2 human partners:{P63000;O95429}

16612 Pathogen[ P0C206] interacts with 2 human partners:{P63000;O95429}

16613 Pathogen[ P03363] interacts with 2 human partners:{P63000;O95429}

16614 [Cluster 1511]GO:0031536+P biological\_process [name] positive regulation of exit from mitosis [def] "Any process that activates or increases the rate of progression from anaphase/telophase (high mitotic CDK activity) to G1 (low mitotic CDK activity)." [GOC

16615 Pathogen[ Q2Q067] interacts with 2 human partners:{O00762;O15392}

16616 Pathogen[ P0C214] interacts with 2 human partners:{O00762;O15392}

16617 Pathogen[ P03346] interacts with 3 human partners:{O15392;Q92886;O00762}

16618 Pathogen[ Q85601] interacts with 2 human partners:{O15392;O00762}

16619 Pathogen[ P14079] interacts with 2 human partners:{O15392;O00762}

16620 Pathogen[ P03383] interacts with 1 human partners:{O00762}

16621 Pathogen[ P03410] interacts with 2 human partners:{O15392;O00762}

16622 Pathogen[ P14075] interacts with 1 human partners:{O00762}

16623 Pathogen[ P0C206] interacts with 2 human partners:{O00762;O15392}

16624 Pathogen[ P03363] interacts with 2 human partners:{Q92886;O00762}

16625 [Cluster 1512]GO:0007158+P biological\_process [name] neuron cell-cell adhesion [def] "The attachment of a neuron to another cell via adhesion molecules." [GOC

16626 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UQB3}

16627 Pathogen[ P0C214] interacts with 1 human partners:{Q9UQB3}

16628 Pathogen[ P03346] interacts with 1 human partners:{Q9UQB3}

16629 Pathogen[ Q85601] interacts with 1 human partners:{Q9UQB3}

16630 Pathogen[ P14079] interacts with 2 human partners:{Q9UQB3;Q15078}

16631 Pathogen[ P03383] interacts with 1 human partners:{Q9UQB3}

16632 Pathogen[ P03410] interacts with 2 human partners:{Q9NZG7;Q9UQB3}

16633 Pathogen[ P14075] interacts with 1 human partners:{Q9UQB3}

16634 Pathogen[ P0C206] interacts with 1 human partners:{Q9UQB3}

16635 Pathogen[ P03363] interacts with 1 human partners:{Q9UQB3}

16636 [Cluster 1513]GO:0046907+P biological\_process [name] intracellular transport [def] "The directed movement of substances within a cell." [GOC

16637 Pathogen[ Q2Q067] interacts with 6 human

16638 partners:{P49792;Q92624;Q9UKX7;Q9H6Z4;P43487;O75901}  
Pathogen[ P0C214] interacts with 6 human

16639 partners:{Q92624;P43487;P49792;Q9UKX7;O75901;Q9H6Z4}  
Pathogen[ P03346] interacts with 8 human

16640 partners:{O75901;Q9UKX7;P43487;Q99666;O14715;Q9H6Z4;Q92624;P49792}  
Pathogen[ Q85601] interacts with 6 human

16641 partners:{P43487;Q9H6Z4;Q92624;Q9UKX7;O75901;P49792}  
Pathogen[ P14079] interacts with 6 human

16642 partners:{O14715;Q92624;Q9UKX7;Q9H6Z4;Q9NZJ9;O75901}  
Pathogen[ P03383] interacts with 6 human

16643 partners:{P49792;O75901;P43487;Q9H6Z4;Q9UKX7;Q92624}  
Pathogen[ P03410] interacts with 9 human

16644 partners:{Q9UKX7;Q99666;Q9NZJ9;Q92624;O14715;P43487;O75901;Q9H6Z4;P49792}  
Pathogen[ P14075] interacts with 6 human

16645 partners:{Q9H6Z4;P43487;P49792;Q9UKX7;O75901;Q92624}  
Pathogen[ P0C206] interacts with 7 human

16646 partners:{Q92624;P49792;Q9UKX7;P43487;Q9H6Z4;O75901;O14715}  
Pathogen[ P03363] interacts with 7 human

16647 partners:{Q9UKX7;O75901;P43487;P49792;Q92624;Q9H6Z4;Q99666}  
[Cluster 1514]GO:0035088+P biological\_process [name] establishment or maintenance of apical/basal cell polarity [def] "Any cellular process that results in the specification, formation or maintenance polarization of a cell's architecture along its apical/basal axis so that the apical and basal regions of the cell have different membrane, extracellular matrix and sub-membrane cellular components." [GOC

16648 Pathogen[ Q2Q067] interacts with 3 human partners:{Q99502;A6NGQ2;P60953}  
16649 Pathogen[ P0C214] interacts with 2 human partners:{P60953;Q99502}  
16650 Pathogen[ P03346] interacts with 3 human partners:{P60953;Q99502;A6NGQ2}  
16651 Pathogen[ Q85601] interacts with 2 human partners:{Q99502;P60953}  
16652 Pathogen[ P14079] interacts with 2 human partners:{Q99502;A6NGQ2}  
16653 Pathogen[ P03383] interacts with 2 human partners:{P60953;A6NGQ2}  
16654 Pathogen[ P03410] interacts with 3 human partners:{A6NGQ2;Q99502;P60953}  
16655 Pathogen[ P14075] interacts with 3 human partners:{P60953;A6NGQ2;Q99502}  
16656 Pathogen[ P0C206] interacts with 3 human partners:{A6NGQ2;P60953;Q99502}  
16657 Pathogen[ P03363] interacts with 2 human partners:{A6NGQ2;P60953}

16658 [Cluster 1515]GO:0072383+P biological\_process [name] plus-end-directed vesicle transport along microtubule [def] "The directed movement of a vesicle towards the plus end of a microtubule, mediated by motor proteins. This process begins with the attachment of a vesicle to a microtubule, and ends when the vesicle reaches its final destination." [GOC

16659 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9H1H9;Q92845}  
16660 Pathogen[ P0C214] interacts with 1 human partners:{Q92845}  
16661 Pathogen[ P03346] interacts with 2 human partners:{Q9H1H9;Q92845}  
16662 Pathogen[ Q85601] interacts with 2 human partners:{Q9H1H9;Q92845}  
16663 Pathogen[ P14079] interacts with 3 human partners:{O15066;Q9H1H9;Q92845}  
16664 Pathogen[ P03383] interacts with 2 human partners:{Q9H1H9;Q92845}  
16665 Pathogen[ P03410] interacts with 2 human partners:{Q9H1H9;Q92845}  
16666 Pathogen[ P14075] interacts with 2 human partners:{Q9H1H9;Q92845}  
16667 Pathogen[ P0C206] interacts with 2 human partners:{Q92845;Q9H1H9}  
16668 Pathogen[ P03363] interacts with 3 human partners:{Q92845;O15066;Q9H1H9}

16669 [Cluster 1516]GO:0010564+P biological\_process [name] regulation of cell cycle process [def] "Any process that modulates a cellular process that is involved in the progression of biochemical and morphological phases and events that occur in a cell during successive cell replication or nuclear replication events." [GOC

16670 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9NQG5;Q9NUQ3;Q66K89}  
16671 Pathogen[ P0C214] interacts with 3 human partners:{Q9NUQ3;Q9NQG5;Q66K89}  
16672 Pathogen[ P03346] interacts with 3 human partners:{Q9NQG5;Q66K89;Q9NUQ3}  
16673 Pathogen[ Q85601] interacts with 3 human partners:{Q9NQG5;Q66K89;Q9NUQ3}  
16674 Pathogen[ P14079] interacts with 3 human partners:{Q9NUQ3;Q66K89;Q9NQG5}  
16675 Pathogen[ P03383] interacts with 3 human partners:{Q9NUQ3;Q66K89;Q9NQG5}  
16676 Pathogen[ P03410] interacts with 3 human partners:{Q9NQG5;Q66K89;Q9NUQ3}  
16677 Pathogen[ P14075] interacts with 3 human partners:{Q9NQG5;Q9NUQ3;Q66K89}  
16678 Pathogen[ P0C206] interacts with 3 human partners:{Q9NUQ3;Q9NQG5;Q66K89}  
16679 Pathogen[ P03363] interacts with 3 human partners:{Q66K89;Q9NQG5;Q9NUQ3}

16680 [Cluster 1517]GO:0044324+P biological\_process [name] regulation of transcription involved in anterior/posterior axis specification [def] "Any process that modulates the frequency, rate or extent of transcription that contributes to the specification of the anterior/posterior axis." [GOC

16681 Pathogen[ Q2Q067] interacts with 1 human partners:{P35638}  
16682 Pathogen[ P0C214] interacts with 1 human partners:{P35638}  
16683 Pathogen[ P03346] interacts with 1 human partners:{P35638}  
16684 Pathogen[ Q85601] interacts with 1 human partners:{P35638}  
16685 Pathogen[ P14079] interacts with 1 human partners:{P35638}  
16686 Pathogen[ P03383] interacts with 1 human partners:{P35638}  
16687 Pathogen[ P03410] interacts with 1 human partners:{P35638}  
16688 Pathogen[ P14075] interacts with 1 human partners:{P35638}  
16689 Pathogen[ P0C206] interacts with 1 human partners:{P35638}

16690 Pathogen[ P03363] interacts with 1 human partners:{P35638}

16691 [Cluster 1518]GO:0001678+P biological\_process [name] cellular glucose homeostasis  
[def] "A cellular homeostatic process involved in the maintenance of an internal steady state of glucose within a cell or between a cell and its external environment." [GOC

16692 Pathogen[ Q2Q067] interacts with 1 human partners:{Q14397}

16693 Pathogen[ P0C214] interacts with 1 human partners:{Q14397}

16694 Pathogen[ P03346] interacts with 2 human partners:{Q12778;Q14397}

16695 Pathogen[ Q85601] interacts with 1 human partners:{Q14397}

16696 Pathogen[ P14079] interacts with 1 human partners:{Q14397}

16697 Pathogen[ P03383] interacts with 1 human partners:{Q14397}

16698 Pathogen[ P03410] interacts with 1 human partners:{Q14397}

16699 Pathogen[ P14075] interacts with 1 human partners:{Q14397}

16700 Pathogen[ P0C206] interacts with 1 human partners:{Q14397}

16701 Pathogen[ P03363] interacts with 1 human partners:{Q14397}

16702 [Cluster 1519]GO:0043549+P biological\_process [name] regulation of kinase activity  
[def] "Any process that modulates the frequency, rate or extent of kinase activity, the catalysis of the transfer of a phosphate group, usually from ATP, to a substrate molecule." [GOC

16703 Pathogen[ Q2Q067] interacts with 1 human partners:{Q86WI3}

16704 Pathogen[ P0C214] interacts with 1 human partners:{Q86WI3}

16705 Pathogen[ P03346] interacts with 1 human partners:{Q86WI3}

16706 Pathogen[ Q85601] interacts with 1 human partners:{Q86WI3}

16707 Pathogen[ P14079] interacts with 1 human partners:{Q86WI3}

16708 Pathogen[ P03383] interacts with 1 human partners:{Q86WI3}

16709 Pathogen[ P03410] interacts with 1 human partners:{Q86WI3}

16710 Pathogen[ P14075] interacts with 1 human partners:{Q86WI3}

16711 Pathogen[ P0C206] interacts with 1 human partners:{Q86WI3}

16712 Pathogen[ P03363] interacts with 1 human partners:{Q86WI3}

16713 [Cluster 1520]GO:0045454+P biological\_process [name] cell redox homeostasis [def]  
"Any process that maintains the redox environment of a cell or compartment within a cell." [GOC

16714 Pathogen[ Q2Q067] interacts with 10 human  
partners:{P35754;P35638;P27695;O14530;P10599;Q96KS0;Q9NNW7;O95831;Q9BQE4;Q9H299}

16715 Pathogen[ P0C214] interacts with 15 human  
partners:{P35754;P27695;Q96KS0;Q9NNW7;O14530;Q9H299;Q16881;P59797;Q9BRT3;P09622;P10599;Q9BQE4;P35638;P13667;Q96NN9}

16716 Pathogen[ P03346] interacts with 16 human  
partners:{P35638;Q9NS18;O43396;P13667;O14530;Q9BRT3;P63302;Q9H299;O76003;O00522;O95831;Q96KS0;P35754;P10599;P27695;Q9NNW7}

16717 Pathogen[ Q85601] interacts with 11 human  
partners:{O14530;O95831;P10599;O76003;Q96KS0;P35754;P59797;Q9H299;P27695;Q9BQE4;P35638}

16718 Pathogen[ P14079] interacts with 17 human  
partners:{Q9BQE4;Q9H299;O95831;P35754;Q9NNW7;P63302;Q86XW9;Q8IZQ5;O14530;Q9BRT3;P59797;P27695;P35638;O76003;P10599;Q96KS0;O00522}

16719 Pathogen[ P03383] interacts with 8 human  
partners:{O95831;P35638;P10599;Q96KS0;O14530;Q9BQE4;P27695;P59797}

16720 Pathogen[ P03410] interacts with 18 human  
partners:{Q9BRT3;P63302;P10599;P35638;P59797;P35754;O76003;Q96KS0;P13667;O14530;Q9BQE4;Q9H299;O95831;O00522;P27695;Q8IZQ5;Q86XW9;Q9NNW7}

16721 Pathogen[ P14075] interacts with 9 human  
partners:{Q9BQE4;O14530;Q96KS0;P27695;P35638;P63302;P59797;O95831;P10599}

16722 Pathogen[ P0C206] interacts with 18 human  
partners:{P27695;Q9H299;Q9NS18;O14530;Q96KS0;P35754;Q9NNW7;Q86XW9;Q9BQE4;O95831;O76003;P63302;P59797;P10599;P13667;P35638;Q9BRT3;O00522}

16723 Pathogen[ P03363] interacts with 12 human  
partners:{Q9H299;P59797;Q9NNW7;O76003;P35754;O00522;P35638;Q86XW9;O43396;O14530;P63302;O95831}

16724 [Cluster 1521]GO:0009968+P biological\_process [name] negative regulation of signal  
transduction [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of signal transduction." [GOC

16725 Pathogen[ Q2Q067] interacts with 5 human  
partners:{Q8N9R8;P41220;O14508;O14512;Q6MZT1}

16726 Pathogen[ P0C214] interacts with 7 human  
partners:{P41220;Q8N9R8;Q6MZT1;O14508;Q96D03;O14512;O15524}

16727 Pathogen[ P03346] interacts with 9 human  
partners:{Q9NWT1;O15524;Q96D03;O75159;Q6MZT1;O14508;P41220;O14512;Q8N9R8}

16728 Pathogen[ Q85601] interacts with 6 human  
partners:{Q8N9R8;P41220;Q96D03;O14508;Q6MZT1;O14512}

16729 Pathogen[ P14079] interacts with 7 human  
partners:{Q96D03;P41220;Q9NX09;Q6MZT1;O14508;O14512;Q8N9R8}

16730 Pathogen[ P03383] interacts with 4 human partners:{P41220;Q6MZT1;O14512;Q8N9R8}

16731 Pathogen[ P03410] interacts with 7 human  
partners:{Q6MZT1;P41220;Q96D03;O14508;Q8N9R8;O14512;Q9NX09}

16732 Pathogen[ P14075] interacts with 4 human partners:{Q8N9R8;P41220;Q6MZT1;O14512}

16733 Pathogen[ P0C206] interacts with 7 human

16734 partners:{Q6MZT1;Q96D03;O15524;O14508;Q8N9R8;P41220;O14512}  
Pathogen[ P03363] interacts with 9 human  
partners:{O75159;O15524;Q7Z569;Q96D03;P41220;Q8N9R8;O14508;O14512;Q6MZT1}

16735 [Cluster 1522]GO:0048477+P biological\_process [name] oogenesis [def] "The complete process of formation and maturation of an ovum or female gamete from a primordial female germ cell. Examples of this process are found in *Mus musculus* and *Drosophila melanogaster*." [GOC  
16736 Pathogen[ Q2Q067] interacts with 3 human partners:{O14686;Q9Y2T7;Q8IZT6}  
16737 Pathogen[ P0C214] interacts with 3 human partners:{Q9Y2T7;P40692;Q8IZT6}  
16738 Pathogen[ P03346] interacts with 7 human  
partners:{Q6QHK4;O60393;P07992;Q5JUK2;O14686;Q9Y2T7;Q8IZT6}  
16739 Pathogen[ Q85601] interacts with 4 human partners:{Q9Y2T7;O14686;Q8IZT6;P40692}  
16740 Pathogen[ P14079] interacts with 5 human  
partners:{P40692;Q9Y2T7;Q86X24;Q8IZT6;P07992}  
16741 Pathogen[ P03383] interacts with 1 human partners:{Q9Y2T7}  
16742 Pathogen[ P03410] interacts with 4 human partners:{P40692;P07992;Q8IZT6;Q9Y2T7}  
16743 Pathogen[ P14075] interacts with 1 human partners:{Q9Y2T7}  
16744 Pathogen[ P0C206] interacts with 6 human  
partners:{O60393;P40692;Q8IZT6;O14686;P07992;Q9Y2T7}  
16745 Pathogen[ P03363] interacts with 6 human  
partners:{Q5JUK2;O60393;Q9Y2T7;Q8IZT6;O14686;Q6QHK4}

16746 [Cluster 1523]GO:0090303+P biological\_process [name] positive regulation of wound healing [def] "Any process that increases the rate, frequency, or extent of the series of events that restore integrity to a damaged tissue, following an injury." [GOC  
16747 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9Y6D6;Q14678}  
16748 Pathogen[ P0C214] interacts with 2 human partners:{Q14678;Q9Y6D6}  
16749 Pathogen[ P03346] interacts with 2 human partners:{Q14678;Q9Y6D6}  
16750 Pathogen[ Q85601] interacts with 2 human partners:{Q14678;Q9Y6D6}  
16751 Pathogen[ P14079] interacts with 2 human partners:{Q9Y6D6;Q14678}  
16752 Pathogen[ P03383] interacts with 2 human partners:{Q14678;Q9Y6D6}  
16753 Pathogen[ P03410] interacts with 2 human partners:{Q9Y6D6;Q14678}  
16754 Pathogen[ P14075] interacts with 2 human partners:{Q9Y6D6;Q14678}  
16755 Pathogen[ P0C206] interacts with 2 human partners:{Q9Y6D6;Q14678}  
16756 Pathogen[ P03363] interacts with 2 human partners:{Q9Y6D6;Q14678}

16757 [Cluster 1524]GO:0045931+P biological\_process [name] positive regulation of mitotic cell cycle [def] "Any process that activates or increases the rate or extent of progression through the mitotic cell cycle." [GOC  
16758 Pathogen[ Q2Q067] interacts with 7 human  
partners:{P54274;P14635;Q13541;P30305;P06730;Q00987;O15392}  
16759 Pathogen[ P0C214] interacts with 7 human  
partners:{Q00987;P14635;P30305;O15392;P06730;P54274;Q13541}  
16760 Pathogen[ P03346] interacts with 10 human  
partners:{P06730;O15392;Q13541;P54274;Q00987;P30305;P17542;P14635;P51587;O75604}  
16761 Pathogen[ Q85601] interacts with 8 human  
partners:{P06730;O15392;Q13541;P30305;P14635;Q00987;P51587;P54274}  
16762 Pathogen[ P14079] interacts with 8 human  
partners:{P54274;P06730;O15392;P51587;Q13541;Q00987;P14635;P30305}  
16763 Pathogen[ P03383] interacts with 4 human partners:{P14635;P06730;Q13541;P54274}  
16764 Pathogen[ P03410] interacts with 8 human  
partners:{O15392;P54274;P06730;Q13541;P14635;P51587;Q00987;P30305}  
16765 Pathogen[ P14075] interacts with 4 human partners:{P14635;P06730;P54274;Q13541}  
16766 Pathogen[ P0C206] interacts with 9 human  
partners:{Q13541;P51587;O75604;P30305;P06730;P54274;O15392;P14635;Q00987}  
16767 Pathogen[ P03363] interacts with 4 human partners:{O75604;P54274;Q13541;P06730}

16768 [Cluster 1525]GO:0043393+P biological\_process [name] regulation of protein binding [def] "Any process that modulates the frequency, rate or extent of protein binding." [GOC  
16769 Pathogen[ Q2Q067] interacts with 6 human  
partners:{P56524;Q9NVM4;Q9NR22;Q9UQL6;Q9H0C5;Q6STE5}  
16770 Pathogen[ P0C214] interacts with 6 human  
partners:{Q9NVM4;P56524;Q6STE5;Q9UQL6;Q9NR22;Q9H0C5}  
16771 Pathogen[ P03346] interacts with 6 human  
partners:{P56524;Q6STE5;Q9NR22;Q9NVM4;Q9UQL6;Q9H0C5}  
16772 Pathogen[ Q85601] interacts with 6 human  
partners:{Q9NR22;Q9UQL6;Q6STE5;Q9NVM4;Q9H0C5;P56524}  
16773 Pathogen[ P14079] interacts with 6 human  
partners:{Q9UQL6;Q9NR22;Q6STE5;Q9NVM4;P56524;Q9H0C5}  
16774 Pathogen[ P03383] interacts with 5 human  
partners:{Q9UQL6;Q9H0C5;Q6STE5;Q9NR22;P56524}  
16775 Pathogen[ P03410] interacts with 6 human  
partners:{Q9NVM4;Q9NR22;Q9UQL6;P56524;Q9H0C5;Q6STE5}  
16776 Pathogen[ P14075] interacts with 5 human  
partners:{Q9NR22;P56524;Q9H0C5;Q9UQL6;Q6STE5}  
16777 Pathogen[ P0C206] interacts with 6 human  
partners:{Q6STE5;Q9NVM4;Q9NR22;Q9H0C5;P56524;Q9UQL6}  
16778 Pathogen[ P03363] interacts with 5 human



partners:{Q6STE5;Q9H0C5;Q9UQL6;Q9NVM4;Q9NR22}

16779 [Cluster 1526]GO:0051443+P biological\_process [name] positive regulation of ubiquitin-protein ligase activity [def] "Any process that activates, maintains or increases the rate of ubiquitin ligase activity, the catalysis of the reaction

16780 Pathogen[ Q2Q067] interacts with 7 human partners:{Q9NS56;Q9UBF1;P61088;P35226;Q96RU7;Q13526;P43356}

16781 Pathogen[ P0C214] interacts with 7 human partners:{P35226;Q9NS56;Q13526;Q9UBF1;P43356;Q96RU7;P61088}

16782 Pathogen[ P03346] interacts with 7 human partners:{P35226;Q9UBF1;Q13526;P61088;Q9NS56;P43356;Q96RU7}

16783 Pathogen[ Q85601] interacts with 7 human partners:{Q9NS56;Q13526;Q9UBF1;Q96RU7;P35226;P43356;P61088}

16784 Pathogen[ P14079] interacts with 6 human partners:{P43356;Q9UBF1;Q9NS56;Q96RU7;P35226;Q13526}

16785 Pathogen[ P03383] interacts with 6 human partners:{P61088;Q9UBF1;Q96RU7;P43356;Q13526;P35226}

16786 Pathogen[ P03410] interacts with 6 human partners:{Q13526;Q9UBF1;P61088;Q96RU7;P35226;P43356}

16787 Pathogen[ P14075] interacts with 6 human partners:{Q9UBF1;P61088;Q13526;P43356;Q96RU7;P35226}

16788 Pathogen[ P0C206] interacts with 7 human partners:{Q9NS56;Q13526;P43356;P35226;Q96RU7;P61088;Q9UBF1}

16789 Pathogen[ P03363] interacts with 5 human partners:{Q9UBF1;Q13526;P61088;P35226;P43356}

16790 [Cluster 1527]GO:0032287+P biological\_process [name] peripheral nervous system myelin maintenance [def] "The process in which the structure and material content of mature peripheral nervous system myelin is kept in a functional state." [GOC

16791 Pathogen[ Q2Q067] interacts with 2 human partners:{P31749;Q92597}

16792 Pathogen[ P0C214] interacts with 2 human partners:{Q92597;P31749}

16793 Pathogen[ P03346] interacts with 3 human partners:{Q8N3R9;Q92597;P31749}

16794 Pathogen[ Q85601] interacts with 2 human partners:{P31749;Q92597}

16795 Pathogen[ P14079] interacts with 3 human partners:{P31751;Q92597;Q8N3R9}

16796 Pathogen[ P03383] interacts with 2 human partners:{P31749;Q92597}

16797 Pathogen[ P03410] interacts with 3 human partners:{P31749;Q92597;Q8N3R9}

16798 Pathogen[ P14075] interacts with 2 human partners:{P31749;Q92597}

16799 Pathogen[ P0C206] interacts with 3 human partners:{Q92597;P31749;Q8N3R9}

16800 Pathogen[ P03363] interacts with 3 human partners:{Q92597;P31749;Q8N3R9}

16801 [Cluster 1528]GO:0043111+P biological\_process [name] replication fork arrest [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of DNA replication by impeding the progress of the DNA replication fork." [GOC

16802 Pathogen[ Q2Q067] interacts with 1 human partners:{P50750}

16803 Pathogen[ P0C214] interacts with 1 human partners:{P50750}

16804 Pathogen[ P03346] interacts with 1 human partners:{P50750}

16805 Pathogen[ Q85601] interacts with 1 human partners:{P50750}

16806 Pathogen[ P14079] interacts with 1 human partners:{P50750}

16807 Pathogen[ P03383] interacts with 1 human partners:{P50750}

16808 Pathogen[ P03410] interacts with 1 human partners:{P50750}

16809 Pathogen[ P14075] interacts with 1 human partners:{P50750}

16810 Pathogen[ P0C206] interacts with 1 human partners:{P50750}

16811 Pathogen[ P03363] interacts with 1 human partners:{P50750}

16812 [Cluster 1529]GO:0006937+P biological\_process [name] regulation of muscle contraction [def] "Any process that modulates the frequency, rate or extent of muscle contraction." [GOC

16813 Pathogen[ Q2Q067] interacts with 1 human partners:{P08133}

16814 Pathogen[ P0C214] interacts with 2 human partners:{P08133;P19429}

16815 Pathogen[ P03346] interacts with 2 human partners:{P08133;P63316}

16816 Pathogen[ Q85601] interacts with 1 human partners:{P08133}

16817 Pathogen[ P14079] interacts with 2 human partners:{P19429;P19237}

16818 Pathogen[ P03383] interacts with 1 human partners:{P08133}

16819 Pathogen[ P03410] interacts with 3 human partners:{P19429;P08133;P63316}

16820 Pathogen[ P14075] interacts with 1 human partners:{P08133}

16821 Pathogen[ P0C206] interacts with 2 human partners:{P19429;P08133}

16822 Pathogen[ P03363] interacts with 2 human partners:{P08133;P19429}

16823 [Cluster 1530]GO:0065004+P biological\_process [name] protein-DNA complex assembly [def] "The aggregation, arrangement and bonding together of proteins and DNA molecules to form a protein-DNA complex." [GOC

16824 Pathogen[ Q2Q067] interacts with 2 human partners:{P15884;O15370}

16825 Pathogen[ P0C214] interacts with 2 human partners:{P15884;O15370}

16826 Pathogen[ P03346] interacts with 2 human partners:{O15370;P15884}

16827 Pathogen[ Q85601] interacts with 2 human partners:{O15370;P15884}

16828 Pathogen[ P14079] interacts with 2 human partners:{O15370;P15884}

16829 Pathogen[ P03383] interacts with 1 human partners:{O15370}

16830 Pathogen[ P03410] interacts with 2 human partners:{P15884;O15370}

16831 Pathogen[ P14075] interacts with 2 human partners:{O15370;P15884}

16832 Pathogen[ P0C206] interacts with 2 human partners:{P15884;O15370}

16833 Pathogen[ P03363] interacts with 2 human partners:{O15370;P15884}

16834 [Cluster 1531]GO:0035412+P biological\_process [name] regulation of catenin import into nucleus [def] "Any process that modulates the rate, frequency or extent of the directed movement of a catenin protein from the cytoplasm into the nucleus." [GOC

16835 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NYF0}

16836 Pathogen[ P0C214] interacts with 1 human partners:{Q9NYF0}

16837 Pathogen[ P03346] interacts with 1 human partners:{Q9NYF0}

16838 Pathogen[ Q85601] interacts with 1 human partners:{Q9NYF0}

16839 Pathogen[ P14079] interacts with 1 human partners:{Q9NYF0}

16840 Pathogen[ P03383] interacts with 1 human partners:{Q9NYF0}

16841 Pathogen[ P03410] interacts with 1 human partners:{Q9NYF0}

16842 Pathogen[ P14075] interacts with 1 human partners:{Q9NYF0}

16843 Pathogen[ P0C206] interacts with 1 human partners:{Q9NYF0}

16844 Pathogen[ P03363] interacts with 1 human partners:{Q9NYF0}

16845 [Cluster 1532]GO:0071364+P biological\_process [name] cellular response to epidermal growth factor stimulus [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an epidermal growth factor stimulus." [GOC

16846 Pathogen[ Q2Q067] interacts with 2 human partners:{P31749;O95429}

16847 Pathogen[ P0C214] interacts with 2 human partners:{O95429;P31749}

16848 Pathogen[ P03346] interacts with 2 human partners:{P31749;O95429}

16849 Pathogen[ Q85601] interacts with 2 human partners:{P31749;O95429}

16850 Pathogen[ P14079] interacts with 2 human partners:{P09327;O95429}

16851 Pathogen[ P03383] interacts with 2 human partners:{P31749;O95429}

16852 Pathogen[ P03410] interacts with 2 human partners:{P31749;O95429}

16853 Pathogen[ P14075] interacts with 2 human partners:{P31749;O95429}

16854 Pathogen[ P0C206] interacts with 2 human partners:{P31749;O95429}

16855 Pathogen[ P03363] interacts with 2 human partners:{P31749;O95429}

16856 [Cluster 1533]GO:0014031+P biological\_process [name] mesenchymal cell development [def] "The process aimed at the progression of a mesenchymal cell over time, from initial commitment of the cell to its specific fate, to the fully functional differentiated cell." [GOC

16857 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9NQ87;Q15699}

16858 Pathogen[ P0C214] interacts with 2 human partners:{Q9NQ87;Q15699}

16859 Pathogen[ P03346] interacts with 2 human partners:{Q15699;Q9NQ87}

16860 Pathogen[ Q85601] interacts with 2 human partners:{Q15699;Q9NQ87}

16861 Pathogen[ P14079] interacts with 2 human partners:{Q15699;Q9NQ87}

16862 Pathogen[ P03383] interacts with 2 human partners:{Q9NQ87;Q15699}

16863 Pathogen[ P03410] interacts with 2 human partners:{Q9NQ87;Q15699}

16864 Pathogen[ P14075] interacts with 2 human partners:{Q9NQ87;Q15699}

16865 Pathogen[ P0C206] interacts with 2 human partners:{Q9NQ87;Q15699}

16866 Pathogen[ P03363] interacts with 2 human partners:{Q15699;Q9NQ87}

16867 [Cluster 1534]GO:0000216+P biological\_process [name] M/G1 transition of mitotic cell cycle [def] "Progression from M phase to G1 phase of the mitotic cell cycle." [GOC

16868 Pathogen[ Q2Q067] interacts with 59 human partners:{Q99460;O75832;P48556;P40306;P55036;O00231;O00233;P27694;P51665;Q99741;P28072;Q9H211;A5LHX3;P35244;Q9UBU7;Q13200;P25787;Q06323;Q13415;Q13156;P28065;O14818;Q14181;Q14997;P60900;Q9UL46;P61289;Q9UBD5;P15927;P28062;O75496;P56282;Q9UNM6;P25788;O75419;Q92530;P25786;Q16401;O00232;Q7L590;O43913;P28074;P25789;P0CG47;Q9Y5N6;Q13416;P20618;P0CG48;P25205;P28070;P28066;Q99436;P24941;Q8TAA3;P62987;O43242;P49721;P49720;P62979}

16869 Pathogen[ P0C214] interacts with 62 human partners:{Q14997;P51665;P25789;P55036;Q13156;P28062;A5LHX3;P28065;O43913;Q7L590;O14818;O75496;O43242;P48556;P40306;Q9UBU7;Q13200;O00232;Q9Y5N6;P25205;Q99460;P28066;O75832;Q14566;P49720;P28074;P0CG48;Q9UL46;P15927;P25788;P24941;Q9UNM6;O00231;P35244;Q06323;P25786;Q9H211;P28072;Q8TAA3;P62987;O75419;Q99436;P0CG47;P25787;Q13416;P27694;P35998;P60900;O00233;P62979;P56282;Q92530;Q15008;Q9UBD5;P28070;P20618;P49721;Q99741;Q16401;P17980;Q13415;Q14181}

16870 Pathogen[ P03346] interacts with 63 human partners:{P25787;P28070;P25789;P55036;Q99460;Q9UL46;P62987;P27694;P28072;P25788;Q9Y5N6;P28074;P49721;Q9UBD5;P35244;O14818;Q99436;P24941;Q13156;P56282;P0CG48;Q16401;A5LHX3;Q9UBU7;P28062;P20618;O00232;O75832;O00233;Q14566;P25205;P49720;P28065;P60900;P33992;P25786;O00231;Q13415;P15927;P61289;Q14181;P62979;P28066;Q9UNM6;P33991;Q8TAA3;P0CG47;Q13416;Q14997;Q13200;P48556;P51665;Q06323;O75419;Q99741;Q7L590;Q92530;Q9H211;O43929;O43242;O43913;P40306;O75496}

16871 Pathogen[ Q85601] interacts with 57 human partners:{P28066;Q9UNM6;P60900;O75496;O43913;P55036;Q7L590;P25787;P61289;P56282;P25788;P35244;O75832;Q13415;Q9Y5N6;Q9UBU7;Q9UBD5;P0CG48;P27694;P25789;O00233;Q14566;P20618;P25205;P40306;P15927;P49720;P28062;P49721;P25786;P28072;Q13200;P28065;Q14181;P62979;Q99436;P28070;Q8TAA3;Q9UL46;Q99460;O00231;P0CG47;Q13416;Q13156;P48556;P28074;Q92530;P62987;P33992;A5LHX3;Q06323;O75419;Q99741;Q9H211;O14818;P24941;Q16401}

16872 Pathogen[ P14079] interacts with 65 human partners:{P28065;Q99436;P62333;Q13416;P48556;Q7L590;P0CG48;O75419;Q14566;Q13415;Q9Y5N6;P40306;P55036;P28074;O00232;O43913;Q9H211;P49720;O00487;P25787;O75832;A5LHX3;P62979;O00233;P35998;Q13156;P61289;P62987;P51665;P20618;P20618;Q99741;Q14997;P28062;P60900;Q9UBD5;Q9UNM6;P56282;Q99460;O14818;P49721;Q92530;P49642;Q14181;O43929;P33992;P15927;Q06323;P27694;P62191;Q15008;P43686;O43242;P25788;O00231;P28066;Q9UL46;P35244;P0CG

16873 Pathogen[ P03383] interacts with 53 human partners: {Q9UBD5;P55036;P62987;P25789;P60900;Q7L590;Q14181;P27694;P40306;O00233;P25205;P49721;Q06323;Q14997;P20618;O43913;P56282;O75832;P15927;Q9Y5N6;P24941;Q9UL46;Q9UNM6;P35244;P25786;Q99460;P28072;Q13200;P28065;P28066;O75419;Q16401;P62979;O00231;P0CG47;Q13416;P0CG48;P28074;Q92530;P49720;Q8TAA3;P61289;Q13156;P28062;P48556;O14818;Q99436;Q9H211;P28070;O75496;Q99741;P25787;P25788}

16874 Pathogen[ P03410] interacts with 65 human partners: {P28070;P35244;P25205;P55036;O43929;P0CG48;Q14181;P25786;Q13416;Q15008;Q16401;P60900;O75419;Q14997;P35998;Q99460;O00233;O00232;Q8TAA3;P48556;P49721;Q9H211;P56282;A5LHX3;P62979;Q99436;P33992;P40306;Q06323;Q13200;P25787;P24941;Q9UBU7;P28062;P51665;Q13156;O14818;Q7L590;O00231;Q9UNM6;P25789;P49720;P62987;O75496;P27694;P28072;P15927;Q9Y5N6;P25788;O43913;Q14566;P28066;Q9UBD5;P28065;O43242;P0CG47;P17980;O75832;P20618;P49642;Q9UL46;P28074;P61289;Q13415;Q99741}

16875 Pathogen[ P14075] interacts with 52 human partners: {P55036;P25788;Q9H211;P28066;P24941;Q06323;O75832;Q8TAA3;P60900;O00233;Q9UL46;Q9Y5N6;P49720;Q9UBD5;O75419;Q13200;P48556;Q16401;P15927;P28070;P49721;O00231;Q92530;Q13156;P35244;P0CG48;P62979;P28062;P28074;P25205;P28065;P25786;O14818;P62987;P28072;O43913;P27694;Q14997;P0CG47;P25787;Q13416;Q99741;P20618;P56282;Q9UNM6;O75496;Q14181;P61289;Q7L590;P40306;Q99436;P25789}

16876 Pathogen[ P0C206] interacts with 61 human partners: {P61289;Q99436;P28062;Q9UNM6;P0CG48;O75832;P40306;O75496;P28065;Q14997;P55036;P25786;P25788;O75419;Q13156;P25205;P25787;O43913;Q06323;P49720;O00232;P60900;Q9UBD5;Q13416;P49642;O43242;Q99741;A5LHX3;P25789;P20618;Q14181;Q9UBU7;Q13200;Q8TAA3;P28070;Q99460;Q9H211;P62979;Q9Y5N6;P28066;O14818;P0CG47;P28072;P56282;Q13415;P28074;P27694;Q92530;P15927;P49721;P62987;P35244;Q9UL46;P24941;Q14566;O00233;P48556;Q16401;P3392;O00231;Q7L590}

16877 Pathogen[ P03363] interacts with 21 human partners: {P27694;Q92530;P25205;P61289;P24941;Q14181;P35244;P15927;P33992;Q13416;Q13415;Q13156;Q99741;Q9H211;P62987;O75496;Q7L590;Q9UBD5;Q9Y5N6;O75419;O43913}

16878 [Cluster 1535]GO:0033137+P biological\_process [name]negative regulation of peptidyl-serine phosphorylation [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the phosphorylation of peptidyl-serine." [GOC

16879 Pathogen[ Q2Q067] interacts with 3 human partners: {O15105;Q9NP71;P49593}

16880 Pathogen[ P0C214] interacts with 3 human partners: {O15105;Q9NP71;P49593}

16881 Pathogen[ P03346] interacts with 3 human partners: {O15105;P49593;Q9NP71}

16882 Pathogen[ Q85601] interacts with 3 human partners: {P49593;Q9NP71;O15105}

16883 Pathogen[ P14079] interacts with 4 human partners: {P49593;Q9NX09;O15105;Q9NP71}

16884 Pathogen[ P03383] interacts with 2 human partners: {Q9NP71;O15105}

16885 Pathogen[ P03410] interacts with 4 human partners: {Q9NP71;O15105;P49593;Q9NX09}

16886 Pathogen[ P14075] interacts with 2 human partners: {Q9NP71;O15105}

16887 Pathogen[ P0C206] interacts with 3 human partners: {Q9NP71;P49593;O15105}

16888 Pathogen[ P03363] interacts with 2 human partners: {O15105;Q9NP71}

16889 [Cluster 1536]GO:0007183+P biological\_process [name] SMAD protein complex assembly [def] "The aggregation, arrangement and bonding together of a set of components to form a protein complex that contains SMAD proteins." [GOC

16890 Pathogen[ Q2Q067] interacts with 5 human partners: {Q13485;P84022;Q15796;Q8N6I1;Q15797}

16891 Pathogen[ P0C214] interacts with 5 human partners: {P84022;Q8N6I1;Q13485;Q15796;Q15797}

16892 Pathogen[ P03346] interacts with 6 human partners: {O95405;Q15797;Q15796;P84022;Q8N6I1;Q13485}

16893 Pathogen[ Q85601] interacts with 5 human partners: {Q15797;Q8N6I1;P84022;Q13485;Q15796}

16894 Pathogen[ P14079] interacts with 3 human partners: {O95405;Q15797;Q8N6I1}

16895 Pathogen[ P03383] interacts with 5 human partners: {Q13485;Q8N6I1;Q15797;P84022;Q15796}

16896 Pathogen[ P03410] interacts with 6 human partners: {P84022;O95405;Q8N6I1;Q15797;Q13485;Q15796}

16897 Pathogen[ P14075] interacts with 4 human partners: {Q15796;Q13485;Q8N6I1;P84022}

16898 Pathogen[ P0C206] interacts with 6 human partners: {P84022;Q8N6I1;Q15796;O95405;Q13485;Q15797}

16899 Pathogen[ P03363] interacts with 6 human partners: {Q15797;O95405;Q15796;P84022;Q13485;Q8N6I1}

16900 [Cluster 1537]GO:0008334+P biological\_process [name] histone mRNA metabolic process [def] "The chemical reactions and pathways involving an mRNA encoding a histone." [GOC

16901 Pathogen[ Q2Q067] interacts with 11 human partners: {P83369;P62318;Q8WTR7;P62304;P14678;Q09161;P52298;Q14493;P62306;P62308;Q969L4}

16902 Pathogen[ P0C214] interacts with 11 human partners: {P83369;Q09161;P14678;P62306;Q969L4;P62308;P52298;Q14493;P62318;P62304;Q8WTR7}

16903 Pathogen[ P03346] interacts with 11 human partners: {Q09161;P62304;Q8WTR7;P52298;Q14493;P62318;P83369;P62306;P14678;Q969L4;P62308}

16904 Pathogen[ Q85601] interacts with 11 human

partners:{P62304;Q969L4;Q09161;P14678;P62306;P62318;P83369;P62308;P52298;Q8WTR7;Q14493}  
 16905 Pathogen[ P14079] interacts with 11 human  
 partners:{Q8WTR7;P52298;P83369;P62306;P14678;P62308;P62304;Q969L4;Q14493;P62318;Q09161}  
 16906 Pathogen[ P03383] interacts with 11 human  
 partners:{Q969L4;P62318;P62304;Q09161;Q14493;P14678;P52298;Q8WTR7;P62308;P83369;P62306}  
 16907 Pathogen[ P03410] interacts with 11 human  
 partners:{P62304;Q8WTR7;P62306;Q14493;P62308;P14678;P52298;P83369;Q969L4;Q09161;P62318}  
 16908 Pathogen[ P14075] interacts with 11 human  
 partners:{P62304;Q09161;Q14493;P62306;P62308;Q8WTR7;P62318;P83369;P14678;Q969L4;P52298}  
 16909 Pathogen[ P0C206] interacts with 11 human  
 partners:{P14678;P52298;Q09161;P62304;Q8WTR7;P83369;P62318;P62306;P62308;Q14493;Q969L4}  
 16910 Pathogen[ P03363] interacts with 12 human  
 partners:{P62318;P62304;P62306;P83369;P52298;Q969L4;P05455;P62308;Q8WTR7;Q14493;P14678;Q09161}  
 16911 [Cluster 1538]GO:2000402+P biological\_process [name] negative regulation of lymphocyte migration [def] "Any process that stops, prevents or reduces the frequency, rate or extent of lymphocyte migration." [GOC  
 16912 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8N6F7}  
 16913 Pathogen[ P0C214] interacts with 1 human partners:{Q8N6F7}  
 16914 Pathogen[ P03346] interacts with 1 human partners:{Q8N6F7}  
 16915 Pathogen[ Q85601] interacts with 1 human partners:{Q8N6F7}  
 16916 Pathogen[ P14079] interacts with 1 human partners:{Q8N6F7}  
 16917 Pathogen[ P03383] interacts with 1 human partners:{Q8N6F7}  
 16918 Pathogen[ P03410] interacts with 1 human partners:{Q8N6F7}  
 16919 Pathogen[ P14075] interacts with 1 human partners:{Q8N6F7}  
 16920 Pathogen[ P0C206] interacts with 1 human partners:{Q8N6F7}  
 16921 Pathogen[ P03363] interacts with 1 human partners:{Q8N6F7}  
 16922 [Cluster 1539]GO:0034968+P biological\_process [name] histone lysine methylation [def] "The modification of a histone by addition of a methyl group to a lysine residue." [GOC  
 16923 Pathogen[ Q2Q067] interacts with 8 human  
 partners:{O43463;Q9NR48;Q15047;O00255;Q8TEK3;Q9H5I1;O96028;Q8WTS6}  
 16924 Pathogen[ P0C214] interacts with 10 human  
 partners:{Q9H5I1;Q15047;O43463;Q9NR48;Q8WTS6;Q9NQR1;O00255;Q9NQV7;Q8TEK3;O96028}  
 16925 Pathogen[ P03346] interacts with 12 human  
 partners:{Q9NQV7;Q9NQR1;Q8TEK3;Q9BYW2;O43463;O00255;Q8WTS6;Q15047;Q13029;Q9NR48;Q9H5I1;O96028}  
 16926 Pathogen[ Q85601] interacts with 10 human  
 partners:{Q9H5I1;Q9NQV7;Q9NQR1;Q9NR48;O43463;Q8WTS6;O00255;Q8TEK3;Q15047;O96028}  
 16927 Pathogen[ P14079] interacts with 7 human  
 partners:{Q15047;Q9H5I1;Q8TEK3;Q9NQR1;Q9NQV7;O00255;Q8WTS6}  
 16928 Pathogen[ P03383] interacts with 7 human  
 partners:{Q15047;O43463;Q8WTS6;O00255;Q8TEK3;Q9H5I1;Q9NQR1}  
 16929 Pathogen[ P03410] interacts with 8 human  
 partners:{Q15047;Q8TEK3;Q8WTS6;Q9NQV7;Q9NQR1;Q9H5I1;O43463;O00255}  
 16930 Pathogen[ P14075] interacts with 7 human  
 partners:{Q15047;Q9NQR1;O00255;Q9H5I1;Q8TEK3;O43463;Q8WTS6}  
 16931 Pathogen[ P0C206] interacts with 12 human  
 partners:{O00255;Q9H7B4;O43463;Q9NQX0;Q9NQV7;Q9NR48;Q9NQR1;O96028;Q8WTS6;Q9H5I1;Q8TEK3;Q15047}  
 16932 Pathogen[ P03363] interacts with 9 human  
 partners:{Q9H5I1;Q8TEK3;O15047;Q9NR48;O96028;O43463;Q9NQR1;Q8WTS6;Q15047}  
 16933 [Cluster 1540]GO:0042730+P biological\_process [name] fibrinolysis [def] "An ongoing process that solubilizes fibrin, chiefly by the proteolytic action of plasmin, resulting in the removal of small blood clots." [GOC  
 16934 Pathogen[ Q2Q067] interacts with 2 human partners:{P04264;P08697}  
 16935 Pathogen[ P0C214] interacts with 4 human partners:{P08697;P04264;P05121;P05120}  
 16936 Pathogen[ P03346] interacts with 1 human partners:{P04264}  
 16937 Pathogen[ Q85601] interacts with 4 human partners:{P08697;P04264;P05121;P05120}  
 16938 Pathogen[ P14079] interacts with 1 human partners:{P04264}  
 16939 Pathogen[ P03383] interacts with 2 human partners:{P08697;P04264}  
 16940 Pathogen[ P03410] interacts with 3 human partners:{P05121;P04264;P08697}  
 16941 Pathogen[ P14075] interacts with 2 human partners:{P04264;P08697}  
 16942 Pathogen[ P0C206] interacts with 3 human partners:{P04264;P05121;P08697}  
 16943 Pathogen[ P03363] interacts with 1 human partners:{P04264}  
 16944 [Cluster 1541]GO:0035329+P biological\_process [name] hippo signaling cascade [def] "The series of molecular signals mediated by the serine/threonine kinase Hippo or one of its orthologs. In Drosophila, Hippo in complex with the scaffold protein Salvador (Sav), phosphorylates and activates Warts (Wts), which in turn phosphorylates and inactivates the Yorkie (Yki) transcriptional activator. The core fly components hippo, sav, wts and

mats are conserved in mammals as STK4/3 (MST1/2), SAV1/WW45, LATS1/2 and MOB1." [PMID

16945 Pathogen[ Q2Q067] interacts with 18 human  
partners:{075161;Q8IY63;Q7L9L4;P62258;P46937;Q15562;Q99594;Q15561;Q8IX03;Q07157;Q9H8S9;O14641;P28347;Q9GZV5;Q9UDY2;Q9Y2J4;P31946;Q9H4B6}

16946 Pathogen[ P0C214] interacts with 18 human  
partners:{Q8IX03;075161;Q9Y2J4;Q9H8S9;P46937;Q9GZV5;P28347;Q7L9L4;Q15561;Q9H4B6;O14641;P42574;Q99594;Q9UDY2;Q8IY63;Q15562;P31946;Q07157}

16947 Pathogen[ P03346] interacts with 19 human  
partners:{Q15562;P46937;Q9UDY2;P28347;Q99594;Q9GZV5;P62258;Q8IX03;P42574;Q7L9L4;Q15561;Q8IY63;O75161;O14641;Q07157;Q9H8S9;Q9Y2J4;P31946;Q9H4B6}

16948 Pathogen[ Q85601] interacts with 18 human  
partners:{075161;P31946;Q8IY63;Q9H8S9;Q9UDY2;Q9GZV5;O14641;P62258;Q15562;Q99594;P28347;Q9Y2J4;Q07157;P46937;Q7L9L4;Q8IX03;Q9H4B6;Q15561}

16949 Pathogen[ P14079] interacts with 18 human  
partners:{075161;Q9H8S9;Q15561;Q9GZV5;Q9UDY2;O14641;Q07157;Q99594;P28347;Q9Y2J4;P46937;Q7L9L4;Q8IX03;P31946;Q9H4B6;P62258;Q15562;Q8IY63}

16950 Pathogen[ P03383] interacts with 18 human  
partners:{Q15561;Q9H8S9;Q15562;P31946;Q07157;Q7L9L4;Q9Y2J4;O14641;P28347;Q8IY63;Q8IX03;Q99594;O75161;P46937;P62258;Q9GZV5;Q9H4B6;Q9UDY2}

16951 Pathogen[ P03410] interacts with 18 human  
partners:{Q99594;P62258;Q9Y2J4;Q8IX03;Q9H8S9;Q7L9L4;O75161;Q9GZV5;Q9UDY2;Q15561;P28347;Q07157;P46937;Q9H4B6;Q8IY63;Q15562;P31946;O14641}

16952 Pathogen[ P14075] interacts with 18 human  
partners:{Q9GZV5;Q07157;Q15562;P28347;Q15561;Q8IY63;Q9H8S9;Q9Y2J4;Q9H4B6;O14641;O75161;Q99594;Q9UDY2;P46937;P31946;Q7L9L4;P62258;Q8IX03}

16953 Pathogen[ P0C206] interacts with 18 human  
partners:{P46937;O75161;Q8IY63;Q9UDY2;P31946;Q9GZV5;Q9H8S9;P62258;Q9H4B6;P28347;Q9Y2J4;P42574;Q15562;Q07157;Q7L9L4;Q99594;Q15561;Q8IX03}

16954 Pathogen[ P03363] interacts with 18 human  
partners:{P62258;O75161;Q15562;P28347;P31946;Q8IY63;Q07157;Q9Y2J4;P46937;Q9GZV5;Q9UDY2;Q7L9L4;Q9H4B6;Q9H8S9;Q8IX03;O14641;Q15561;Q99594}

16955 [Cluster 1542]GO:0040018+P biological\_process [name] positive regulation of multicellular organism growth [def] "Any process that activates or increases the frequency, rate or extent of growth of an organism to reach its usual body size." [GOC

16956 Pathogen[ Q2Q067] interacts with 3 human partners:{Q00613;P20265;P28069}

16957 Pathogen[ P0C214] interacts with 4 human partners:{Q00613;P20265;P28069;P16220}

16958 Pathogen[ P03346] interacts with 7 human  
partners:{P16220;Q00613;P20265;Q92879;P28069;P50542;Q9P2D1}

16959 Pathogen[ Q85601] interacts with 5 human  
partners:{Q9P2D1;P28069;Q00613;P16220;P20265}

16960 Pathogen[ P14079] interacts with 5 human  
partners:{P20265;P28069;Q9P2D1;Q00613;P50542}

16961 Pathogen[ P03383] interacts with 4 human partners:{P16220;P28069;Q00613;P20265}

16962 Pathogen[ P03410] interacts with 6 human  
partners:{Q00613;P28069;Q9P2D1;P16220;P50542;P20265}

16963 Pathogen[ P14075] interacts with 4 human partners:{P28069;Q00613;P20265;P16220}

16964 Pathogen[ P0C206] interacts with 7 human  
partners:{P16220;Q00613;Q9P2D1;P50542;Q13422;P20265;P28069}

16965 Pathogen[ P03363] interacts with 5 human  
partners:{Q92879;P16220;P28069;P20265;Q00613}

16966 [Cluster 1543]GO:0043043+P biological\_process [name] peptide biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of peptides, compounds of 2 or more (but usually less than 100) amino acids where the alpha carboxyl group of one is bound to the alpha amino group of another. This may include the translation of a precursor protein and its subsequent processing into a functional peptide." [CHEBI

16967 Pathogen[ Q2Q067] interacts with 4 human partners:{P82933;Q9BYN8;P11532;P82673}

16968 Pathogen[ P0C214] interacts with 4 human partners:{P11532;Q9BYN8;P82673;P82933}

16969 Pathogen[ P03346] interacts with 4 human partners:{P82933;P11532;Q9BYN8;P82673}

16970 Pathogen[ Q85601] interacts with 3 human partners:{P82933;P11532;Q9BYN8}

16971 Pathogen[ P14079] interacts with 4 human partners:{P11532;P82933;Q9BYN8;P82673}

16972 Pathogen[ P03383] interacts with 3 human partners:{P82933;Q9BYN8;P11532}

16973 Pathogen[ P03410] interacts with 4 human partners:{P11532;Q9BYN8;P82673;P82933}

16974 Pathogen[ P14075] interacts with 3 human partners:{P11532;Q9BYN8;P82933}

16975 Pathogen[ P0C206] interacts with 4 human partners:{P82673;Q9BYN8;P82933;P11532}

16976 Pathogen[ P03363] interacts with 3 human partners:{P11532;P82933;Q9BYN8}

16977 [Cluster 1544]GO:0006357+P biological\_process [name] regulation of transcription from RNA polymerase II promoter [def] "Any process that modulates the frequency, rate or extent of transcription from an RNA polymerase II promoter." [GOC

16978 Pathogen[ Q2Q067] interacts with 190 human  
partners:{O60806;Q9BUE0;Q13573;Q9UKI9;Q9NZI7;P25490;Q33E94;P01100;P46108;Q9Y6X8;Q9H2G9;Q9Y5Q3;Q10587;P10827;P04198;Q9Y5V3;Q92922;P07737;O60296;Q9BUP3;Q99081;Q9Y2D1;Q6XD76;O00267;Q9H9T3;Q9NPP6;Q8WYA1;P40763;P14921;P36402;P46937;O95402;Q13485;Q9BQA1;Q16656;Q9Y2Y9;P10828;O96019;Q8N3X6;P51531;Q9NPG3;Q99708;P13349;Q15059;P37275;Q32MZ4;Q9NZI6;Q9H944;Q14119;Q9BTT4;Q93074;Q15528;P39880;P18850;Q99594;O94983;O75486;P36956;Q14192;Q15633;O75586;Q92754;Q6ZRS2;Q9NPI1;P54198;O60244;O94993;Q15560;Q9P086;P08047;Q018

92;P20265;P15172;P48552;Q15561;Q7KZ85;Q9ULK4;Q00444;Q15723;O95163;Q9Y5Z7;Q7RTV3;P539  
99;Q96G25;Q9ULW3;Q99966;P52747;P55347;Q14186;Q12800;P56693;P51948;Q969G3;O75528;Q929  
25;P25440;O15499;O14497;Q9UHV7;Q9NWA0;Q99732;P51532;A0JLT2;Q6P2C8;P15408;Q12873;Q9NV  
C6;Q8WVJ9;Q15327;Q96H20;Q92830;P35869;Q96GM5;P82970;Q16621;Q6IA86;P55055;O60765;Q153  
69;O60216;Q9NSI6;Q96JN0;Q9Y6J9;Q86VE0;P49639;Q13503;Q86YW9;O15370;Q9NQ33;Q8IZX4;O948  
05;P20823;P23193;Q12968;P52630;O60248;Q14839;Q9UPV9;P15336;Q9Y2X0;Q15545;Q14872;Q9NZ  
N8;P22415;Q9UKT9;O14646;Q04724;Q8TE85;Q12824;O43513;Q9NY43;P47928;O75764;Q5T230;Q8N6  
93;Q8TAQ2;P18848;P63272;Q15853;Q96RN5;Q14241;Q6STE5;P42226;Q13952;P15923;O60422;P154  
07;O75376;P61586;P42224;O94763;Q8TDD2;Q15797;P23409;Q06547;Q9Y651;Q9GZU7;O00422;Q065  
46;Q9H0E9;P53567;P49715;Q9Y242;Q6ZN01;Q96EB1;P17947;Q8N9B5;Q10586;Q71F56;Q9UBS8}

16979 Pathogen[ P0C214] interacts with 187 human  
partners: {P53567;P18850;P54198;Q14527;Q9NZN8;Q15327;Q15059;P32243;O75486;P49639;Q9Y5  
Z7;P35869;Q9Y5V3;Q13573;O75528;Q13952;Q06546;Q9Y6J9;O95633;P55347;O75764;Q12824;Q148  
72;Q96JN0;P14921;Q9UPV9;O14497;O75586;P15336;Q9P086;Q06547;P48552;Q16656;Q12873;P154  
07;Q99081;O00267;Q8N693;Q7KZ85;Q9Y2X0;P42226;P13349;Q14119;Q5T230;Q16621;P01100;Q930  
74;P17275;Q12800;P56693;P15408;Q9BUE0;P61586;P53999;P46937;Q99708;Q6ZRS2;Q9NWA0;P151  
72;P17947;Q9Y2Y9;Q9NVC6;Q6STE5;Q9Y5Q3;P42224;P37275;Q9UKI9;O60296;Q32MZ4;Q9NSI6;Q047  
24;Q9BTT4;Q15545;O60244;Q9GZU7;Q8TAQ2;Q15560;Q6IA86;Q10587;Q10586;Q9H944;Q9NZI7;P202  
65;Q15561;Q15633;Q92922;Q99966;Q8TE85;Q12968;Q86VE0;P18848;Q96RN5;P17535;Q99732;Q927  
54;Q969G3;Q15528;Q9BUP3;Q14186;P47928;A0JLT2;O60765;P15923;Q71F56;P51948;O43513;P254  
40;O00422;Q13485;Q15369;Q86YW9;Q9Y242;P63272;Q8N3X6;Q9H2G9;Q9UBS8;Q92925;O75376;Q6ZN  
01;O60264;Q14192;P41223;Q99594;Q9Y6X8;Q01892;Q9Y2D1;Q8WYA1;P82970;Q8IZX4;Q6P2C8;Q9H0  
E9;P36402;P52747;Q9UHV7;Q6XD76;Q9H9T3;P39880;O60806;Q9UKT9;P36508;Q8N9B5;Q8WVJ9;Q9NZ  
I6;Q9NPI1;Q15853;Q92830;Q9ULW3;P40763;Q96H20;P22415;O14646;P10828;Q7RTV3;P23193;Q135  
03;Q15797;Q9Y651;O94763;P46108;Q96G25;Q9ULK4;O15370;P51531;P52630;O94805;Q96EB1;O154  
99;O95163;Q9NQ33;O60216;Q96GM5;O95402;O60248;O96019;Q9NPI6;P08047;Q14839;Q9NY43;Q33E  
94;P04198;Q8TDD2;P51532;O94993;Q15723;O94983;Q14241;Q9NPG3}

16980 Pathogen[ P03346] interacts with 234 human  
partners: {Q15723;Q99081;P85037;Q9NPG3;Q13886;Q9Y6J9;Q7KZ85;P49639;Q16621;P46937;P502  
19;P10827;O95402;Q9H2G9;Q99966;Q9NPI6;P36508;Q8N9B5;Q96GM5;O60765;Q8N8B7;O60248;Q9Y4  
X4;O15370;P36402;Q9ULW3;O75586;P15336;P36956;Q16656;Q9BQA1;P52747;Q06547;Q9Y5Z7;Q9UK  
T9;Q99594;Q9BUP3;Q8N3X6;P51532;P13349;Q15797;Q96HZ4;Q9UKI9;Q99626;O94763;P17275;Q32M  
Z4;Q9NZI6;Q14872;Q99708;Q9NSI6;Q14527;Q8N693;P25490;Q15633;O75486;Q92925;P15923;P151  
72;P56693;P15408;P17535;Q86YW9;Q15327;Q71F56;Q93074;Q9NPI1;P23409;O95163;O60806;Q928  
86;O60244;P42226;O60296;Q9Y5Q3;Q12824;Q9NQ33;Q9Y2D1;Q9BTT4;Q15560;O14646;P20823;P254  
40;P63272;Q8TE85;O75764;Q6XD76;P49715;Q92754;Q9UBC0;Q15059;Q96H20;P78426;Q9P086;P080  
47;Q9H0E9;Q15853;O00422;P20265;Q8TDD2;P18850;Q9NZN8;Q14119;Q96G25;Q15561;Q5T230;Q8NB  
F1;Q15528;Q14186;Q92830;P18848;P14921;Q12968;O43513;P17542;O96019;Q9HCS4;Q9GZU7;Q5JT  
82;P41223;P53999;Q06546;Q9H9T3;Q02446;O75528;O95863;Q86VE0;Q6P2C8;Q33E94;Q9UPV9;Q141  
92;O15499;O60264;Q6STE5;Q04724;Q9Y242;Q02086;O14497;Q8WVJ9;O75840;Q94805;Q01954;Q9Y6  
X8;P37275;P82970;Q12778;Q12800;A0JLT2;P42224;P35659;Q01167;O75376;O94983;Q9Y5V3;P461  
08;O00267;Q9UBS8;Q6ZRS2;O94993;P09630;P15407;P04198;Q9H944;Q13952;Q6ZN01;Q969G3;Q6IA  
86;Q15369;P32242;Q9NVC6;P55347;Q92922;P10828;O60422;P17947;Q99929;Q10586;P48552;O753  
33;Q12873;Q13485;Q8WYA1;P07737;P53567;Q9Y651;P23193;Q7Z5J4;Q8IZX4;Q96KN3;O15516;Q9Y2  
X0;Q13573;O75398;P39880;P51531;P35869;Q13503;Q15545;Q9ULK4;Q10587;O75593;Q13395;P526  
30;Q01892;P40763;Q9BXX1;P32243;Q96JN0;Q8TAQ2;Q96EB1;Q7RTV3;Q13285;Q9NWA0;O60216;P011  
00;P51948;Q9NY43;Q00444;O95633;Q9UHV7;Q96RN5;P55055;P54198;Q9Y2Y9;Q9BUE0;Q9NZI7;Q148  
39;Q14241;P47928;P22415;O43719;P61586;Q15319;Q99732}

16981 Pathogen[ Q85601] interacts with 201 human  
partners: {Q5T230;Q8N3X6;Q9ULW3;Q9Y2X0;Q8TE85;P49639;P54198;Q9BQA1;Q15853;Q9BUE0;O154  
99;O75528;Q92754;Q8TDD2;Q01892;Q96H20;P15172;Q04724;P14921;Q9ULK4;Q9NPG3;Q6STE5;O753  
98;Q16656;Q06546;Q9GZU7;Q16621;P53567;P13349;Q9Y2Y9;Q15797;Q9H9T3;Q13573;Q9UHV7;Q929  
25;Q9Y651;Q99966;Q33E94;P15407;Q14872;Q99708;P18848;P40763;Q14241;Q9H0E9;O15516;Q9Y2  
42;Q12800;Q8WYA1;Q15545;Q15723;P25490;Q96G25;Q71F56;Q10587;P46108;O14497;O96019;Q9NQ  
33;P53999;O14646;Q9UPV9;P51948;Q9NZN8;O60216;Q15560;P55055;Q15059;Q13952;Q9Y5Q3;Q8IZ  
X4;Q9Y6J9;P08047;O60806;P07737;Q01954;P52630;P51531;Q9H944;P01100;O15370;Q96GM5;P224  
15;Q13503;P36508;P23409;O60296;Q14186;Q92830;Q8NBF1;Q12968;P17535;P51532;Q96RN5;Q969  
G3;Q96JN0;O95402;Q15528;P36956;O60765;P42226;Q9Y5V3;Q12873;Q14192;O60248;Q7KZ85;Q995  
94;Q9NSI6;Q9Y6X8;Q6ZRS2;Q15327;P82970;P18850;Q9UKI9;O75376;P42224;Q96EB1;Q15369;P615  
86;O94983;P15923;P36402;Q32MZ4;P10827;O00267;P32243;Q15633;Q8N693;P56693;O94993;P231  
93;Q9NZI6;Q6ZN01;Q9NPI1;Q9H2G9;Q86VE0;P49715;Q06547;Q9Y2D1;Q6IA86;Q9Y5Z7;P55347;P372  
75;O60422;P17947;P46937;Q6P2C8;Q9UBS8;P25440;O75486;P35869;P63272;A0JLT2;O94763;Q990  
81;Q9BTT4;Q9NWA0;O75764;Q86YW9;P48552;P15336;P10828;P04198;O00422;P39880;Q14119;Q9HC  
S4;O60264;O75586;Q14527;Q99732;O94805;P17275;O95163;Q92922;P20823;Q12824;Q8TAQ2;O602  
44;Q13485;Q8N9B5;Q9BUP3;Q93074;Q7RTV3;Q9NY43;Q00444;P52747;Q9NPI6;Q9UKT9;Q9NVC6;O435  
13;Q15561;Q9NZI7;P15408;Q8WVJ9;Q14839;P20265;Q10586;P47928;Q9P086;Q6XD76}

16982 Pathogen[ P14079] interacts with 184 human  
partners: {Q96JN0;P48552;Q13952;Q15560;O00422;O60244;Q9NPI1;O95402;Q8N8B7;Q9Y2X0;O435  
13;P55055;Q10587;Q9Y5Q3;Q15561;Q71F56;Q8IZX4;P35869;Q14241;Q6STE5;Q9NSI6;O15370;Q8N6  
93;P52630;Q96H20;Q06546;Q9Y6J9;P13349;P52747;Q14186;O75528;Q15853;P23409;Q14192;Q928  
30;Q9Y2Y9;Q15723;P53567;P53999;Q9BUE0;Q8N9B5;P41223;P20265;Q6IA86;P55347;Q6XD76;P108  
28;Q8TE85;Q5T230;Q15528;P39880;Q16656;Q99594;Q92922;P51532;Q6P2C8;O14646;O95163;Q9UL  
K4;Q8WVJ9;O60216;Q9NVC6;P07737;Q99966;P54198;P51531;Q13573;A0JLT2;Q6ZRS2;Q9P086;Q32M  
Z4;Q15059;O14497;Q96EB1;Q9NY43;Q8TAQ2;Q12968;P46937;P15923;Q10587;Q9NWA0;P108  
27;P36402;Q12873;Q9BUP3;O94763;Q9H0E9;Q9H2G9;P42226;P82970;Q9NZI7;Q9Y5Z7;Q01892;Q7KZ  
85;Q9ULW3;O94805;Q9Y5V3;Q86YW9;O75586;Q04760;O75764;Q9H9T3;Q99732;Q9UHV7;Q9BQA1;O602

- 48;Q9NQ33;Q99708;P49715;Q96RN5;Q9NZI6;Q9NPG3;P63272;P17275;P15336;Q96GM5;P04198;P61586;Q9H944;O60264;Q9NPJ6;Q15327;Q16621;Q92754;P56693;Q00444;Q9Y4X4;Q12800;Q7RTV3;P42224;Q8N3X6;P18850;P32243;O60296;Q86VE0;Q04724;Q14872;Q8TDD2;Q14839;Q9BTT4;P35659;P23193;P25440;Q13503;P15407;Q9UBS8;O75376;Q9UKI9;P36508;Q13395;Q15369;Q12824;Q93074;Q99081;Q9NZN8;O15499;P25490;P49639;Q8WYA1;Q9Y6X8;O00267;P36956;Q96G25;O60765;O75486;P15408;P01100;Q10586;O94993;P47928;P37275;Q92925;P46108;P17535;Q8NBF1;Q2446;Q9UKT9;Q15545;Q9GZU7;Q14119;P22415;P51948;O94983}
- 16983 Pathogen[ P03383] interacts with 165 human partners: {O95402;Q13573;Q15723;Q9Y6J9;Q15561;Q32MZ4;Q9BQA1;Q14839;Q14497;Q13485;Q15369;P63272;O95163;P08047;O96019;O75528;Q9UKI9;Q12824;P32243;P51948;O60765;O94805;P25440;O60248;Q9H944;P15172;P14921;O75376;Q8WVJ9;O75486;Q9ULK4;Q9Y5Q3;Q96H20;Q16656;Q06547;P23193;Q86YW9;O60244;Q9Y2Y9;P53999;Q6STE5;Q9UBS8;P37275;O94983;P52630;P15923;Q9ULW3;Q9H2G9;Q96G25;O14646;Q8IZX4;Q15797;P42226;Q8N693;Q86VE0;Q9NPJ6;Q04724;P15408;O60216;Q8TE85;Q15560;Q93074;P07737;O00267;Q14872;P55347;Q9H0E9;Q96EB1;Q33E94;Q96RN5;Q96GM5;Q13952;Q01892;Q12873;O60296;Q14186;Q6P2C8;O94763;Q16621;P49639;P52747;Q969G3;Q71F56;P61586;Q14192;Q9GZU7;Q15528;Q92830;Q9UPV9;O00422;Q9Y5V3;Q99081;Q8N3X6;P15407;Q99732;Q12968;Q9NSI6;Q9Y6X8;P51531;Q9NQ33;P82970;Q12800;Q9NPG3;O15370;Q92925;P36402;Q8TAQ2;Q96JN0;Q15853;Q9NZI6;Q9NZN8;Q99708;Q9P086;Q15327;P01100;P04198;Q92754;P39880;Q9NZI7;Q99594;Q15059;Q9BUP3;Q5T230;Q8N9B5;Q7RTV3;Q10586;P17535;Q9NY43;P51532;A0JLT2;P53567;Q9UKT9;Q9NPI1;Q9BTT4;P48552;Q9UHV7;Q92922;P15336;P10828;P47928;P18848;Q9NVC6;P18850;Q15586;Q15545;Q6ZN01;Q9Y2D1;P17275;P20265;P35869;P56693;P46937;Q14241;Q6IA86;P54198;Q06546;Q9NWA0;Q9Y2X0;P17947;Q9H9T3;Q9BUE0;Q15633;P22415;Q13503;Q7KZ85}
- 16984 Pathogen[ P03410] interacts with 192 human partners: {Q92830;Q99594;Q71F56;P23409;Q8NBF1;Q8IZX4;P36956;P53999;O94763;Q9NZN8;Q9H2G9;Q12873;Q6ZN01;Q9Y2Y9;Q99708;P54198;Q15633;P37275;P36508;Q8WVJ9;Q96G25;P82970;Q8N3X6;Q5T230;Q8TDD2;O60806;O00267;P17947;P63272;Q12968;Q96GM5;O14497;Q96019;P18848;P36402;Q13503;Q9Y2D1;O75528;Q7KZ85;P53567;Q86YW9;O14646;Q9NVC6;Q9GZU7;Q12800;Q9NPJ6;Q99732;Q04724;Q9NWA0;Q9BQA1;Q86VE0;P10828;O75764;Q32MZ4;Q9H9T3;O75376;Q06547;Q15059;Q15327;P23193;P15923;Q96EB1;Q9NPG3;O60216;P25490;P01100;Q15560;P15408;O75486;P35659;Q6XD76;Q92925;Q9Y5Q3;Q99081;Q9UKT9;Q6ZRS2;Q8TE85;Q9ULK4;P41223;O95402;Q15561;Q969G3;Q15369;O43513;O94805;P17535;Q9UPV9;P61586;Q13395;Q9UBS8;P17275;Q16621;Q15527;O95163;Q14872;Q15797;Q92922;Q14119;P47928;P22415;Q13485;Q13952;Q14186;Q9BUP3;P56693;Q7RTV3;Q9BT4;Q9Y6X8;P46937;Q6P2C8;Q9Y6J9;P51532;Q15853;P13349;O60296;P39880;P49639;Q9NQ33;Q8N8B7;Q10586;P42226;Q9P086;P51948;Q96JN0;A0JLT2;P51531;Q9NSI6;Q9UKI9;P55347;O60244;Q9UH7;P32243;Q9Y5V3;Q9ULW3;P46108;P52630;Q8N9B5;Q9HCS4;Q8TAQ2;Q10587;Q9NZI6;P08047;O60248;Q16656;Q9Y2X0;Q8N693;Q93074;O00422;P15407;Q6STE5;Q9NZI7;O15370;O94993;Q9H944;P20265;O60765;O60264;O94983;Q04760;Q9NY43;Q9BUE0;Q12824;Q96H20;Q6IA86;Q33E94;P48552;Q9H0E9;Q14839;P15336;Q15723;O60422;Q14241;P40763;P07737;P18850;P04198;Q96RN5;Q14192;Q06546;Q15545;Q9NPI1;Q92754;Q13573;Q01892;O75586;P14921;Q8WYA1;P52747;Q15528;O15499;Q99966;P25440}
- 16985 Pathogen[ P14075] interacts with 163 human partners: {Q9NQ33;Q96EB1;P52630;Q15059;Q9Y6J9;O14646;P35869;Q9BUP3;Q9H2G9;P35659;Q9NPJ6;Q15528;Q13573;Q96GM5;O60248;P25440;Q9NPI1;P42226;Q12800;Q9Y2D1;Q6ZN01;Q16656;Q9BQA1;P52747;P10828;O60765;P51532;P53567;P17275;Q8TE85;Q71F56;Q06546;Q9NSI6;Q14241;Q14839;Q33E94;Q15561;P15172;Q15327;O00422;Q6IA86;Q86VE0;P20265;Q92922;Q7KZ85;Q9P086;P47928;O60296;P56693;P15336;P04198;Q92754;Q9NZI7;Q15560;Q9NZN8;O94983;Q9NWA0;P15923;P15408;Q86YW9;Q13952;P54198;O94763;P39880;Q8WVJ9;Q96H20;O14497;O95402;Q9UPV9;P07737;O75376;P55347;O75586;Q7RTV3;Q9BTT4;Q13485;Q93074;Q14186;Q10586;Q15853;Q96019;Q9NY43;Q06547;P23193;Q9UHV7;O75528;Q8N693;Q01892;Q9Y5Q3;Q9H944;O15370;Q99732;Q15723;P51531;Q9UKT9;Q99594;O60244;Q9Y6X8;Q9ULW3;Q92925;P53999;P17947;P82970;Q8TAQ2;A0JLT2;Q15545;P18848;P61586;P14921;P36402;Q15633;Q12824;O94805;Q9NZI6;O95163;Q9ULK4;P01100;Q9GZU7;Q9H9T3;Q6P2C8;Q5T230;Q9NVC6;P46937;Q9UBS8;Q32MZ4;Q96RN5;P48552;O75486;Q13503;Q04724;Q9UKI9;P22415;Q8N3X6;P15407;Q16621;P37275;Q96JN0;Q6STE5;Q96G25;Q99081;O00267;Q9Y5V3;P17535;Q92830;Q15369;Q99708;O43513;Q12873;P32243;Q8N9B5;O60216;P63272;Q12968;Q14872;Q14192;Q9Y2Y9;Q9Y2X0;Q9BUE0;P51948;P18850;Q8IZX4;Q9NPG3;P08047}
- 16986 Pathogen[ P0C206] interacts with 212 human partners: {Q8TE85;P46937;Q15723;Q9BUE0;O75486;P53567;O60216;O75528;Q00444;Q9Y2D1;P23193;Q92830;Q06546;Q15545;Q8N3X6;Q9BUP3;Q9Y5Q3;P14921;Q9NY43;Q9NSI6;P51532;Q9NPI1;Q9BQA1;Q9Y242;Q9GZU7;Q99708;Q9P086;P15407;P17275;O95633;P35869;P25490;Q02446;P18850;Q9H9T3;Q9Y2Y9;P51531;Q9NZN8;P49639;Q15327;Q6XD76;Q6STE5;Q9Y5V3;P54198;Q6IA86;O75764;O15499;P23409;Q9Y5Z7;O75586;Q9UBC0;P15336;P55055;O60765;Q6ZRS2;Q6P2C8;Q92922;P17535;Q14186;P49715;P36956;Q9HCS4;Q7RTV3;Q04760;Q86VE0;Q12968;P56693;Q12824;Q9Y6J9;Q92925;Q86YW9;Q9NZI7;Q9UHV7;Q10587;P41223;Q8TAQ2;Q8WVJ9;Q14241;Q9UPV9;Q96HZ4;Q9Y6X8;Q8IZX4;O00422;Q8N9B5;Q92754;O43513;O95163;O60248;Q15853;Q14839;Q9NPG3;Q32MZ4;O14646;Q13952;O14497;O96019;Q8N8B7;P82970;Q16656;P36508;O15516;Q7Z5J4;P10828;P22415;P53999;Q96RN5;Q99081;O95402;Q15560;Q13573;Q9ULW3;P32243;O94993;Q96H20;P08047;Q96JN0;P13349;Q9H944;Q9UBS8;Q9NPJ6;P01100;Q9UKI9;Q7KZ85;P15923;O60296;P20823;Q06547;Q8N693;Q5T230;P04198;Q9Y4X4;P17947;Q9NQ33;Q8NBF1;O75376;O00267;Q14872;P40763;Q13485;Q15633;Q9BTT4;P25440;Q8WYA1;Q14527;Q04724;Q33E94;O15370;Q9H2G9;Q60244;Q15797;Q99966;Q9NSI6;Q9ULK4;P42226;P35659;P37275;Q15059;P20265;Q96GM5;Q16621;Q9NVC6;P15172;Q969G3;Q96EB1;Q9UKT9;P52747;Q14192;Q9NWA0;Q71F56;P46108;Q99594;O75398;P39880;Q13503;Q9Y2X0;P07737;P48552;A0JLT2;P42224;P47928;Q96G25;Q14119;O94983;Q01892;Q15369;Q8TDD2;Q93074;P36402;P18848;Q99732;O60422;O60806;Q15528;P15408;P52630;Q12800;Q9BX63;Q9H0E9;O94805;Q15561;Q6ZN01;O94763;Q12873;P10827;Q10586;O60264;P63272;P51948;Q01954;P55347;Q9Y651}
- 16987 Pathogen[ P03363] interacts with 209 human partners: {Q8IZX4;Q92886;Q86VE0;O15370;P52630;Q9UBC0;Q06547;Q32MZ4;Q9BX63;Q15528;P175

35;P18848;Q9ULW3;P10828;Q9BUP3;Q9UPV9;P54198;P41223;Q92925;Q13503;Q15853;O75764;Q6ST  
E5;Q99626;P53567;P36402;Q6IA86;Q06546;Q13952;O60422;Q99929;Q10586;P37275;Q8TDD2;Q8TA  
Q2;Q6ZRS2;P17947;Q7RTV3;Q01892;P51532;P82970;Q8N8B7;P04198;P18850;P25490;Q96HZ4;Q9UK  
I9;O60765;Q9Y6X8;Q14497;O75376;Q15545;P35659;Q9Y2D1;Q9NPG3;Q5JT82;Q16621;O94983;Q9NQ  
33;P14921;O00267;Q96JN0;Q15797;P32243;P36508;Q04724;Q14839;Q8N693;Q9HCS4;P55347;Q153  
69;Q49639;Q15327;Q15633;Q96H20;Q9Y4X4;Q9NZN8;P35869;P17275;P42226;P13349;Q7KZ85;O602  
96;Q9Y2Y9;O60264;Q12800;Q9BQA1;P15923;P15336;O15499;Q8TE85;P48552;Q9Y5Z7;Q99708;P469  
37;Q14872;P56693;Q9NWA0;O96019;Q9BUE0;Q14119;Q00444;Q9NSI6;Q96KN3;Q14241;Q92830;Q9NZ  
I6;Q9BXX1;Q14527;P32242;Q8WYA1;Q9NV6;Q969G3;O94763;Q71F56;Q99732;Q13395;Q5T230;Q96E  
B1;Q9NPI1;Q96RN5;Q9UHV7;A0JLT2;O75586;P20265;Q15723;Q6XD76;Q01167;Q16656;O95163;Q9NZ  
I7;P47928;O94805;Q13573;Q33E94;P46108;P15407;P22415;Q93074;Q9UBS8;P53999;O00422;Q019  
54;O14646;P23193;Q9H2G9;Q9Y651;Q13485;Q9BTT4;O95402;Q12968;O60806;P23409;P63272;Q141  
86;Q6ZN01;Q9Y5V3;Q9NPF6;O75398;P25440;O94993;Q9UKT9;Q12873;Q15059;O60244;O75486;Q9GZ  
U7;Q9P086;Q96GM5;Q9ULK4;P08047;O60248;Q99081;Q9NY43;Q86YW9;Q15560;P51531;Q92922;P096  
30;Q9H9T3;P39880;Q6P2C8;P15172;O43513;Q15561;P50219;Q96G25;P15408;Q99594;Q9H0E9;Q9Y5  
Q3;Q8N9B5;Q8WVJ9;Q9Y6J9;Q12824;Q8N3X6;Q9H944;Q02446;Q8NBF1;Q10587;O75528;P07737;O437  
19;P52747;O60216;Q92754;Q15319;P01100;Q14192}

16988 [Cluster 1545]GO:0007052+P biological\_process [name] mitotic spindle organization  
[def] "A process that is carried out at the cellular level which results in the  
assembly, arrangement of constituent parts, or disassembly of the microtubule spindle  
during a mitotic cell cycle." [GOC

16989 Pathogen[ Q2Q067] interacts with 11 human  
partners:{Q9UH99;P18754;P62826;Q14204;Q9HBM1;Q13561;O00139;O95271;Q14683;O14777;P278  
16}

16990 Pathogen[ POC214] interacts with 11 human  
partners:{Q14204;O00139;P27816;Q9UH99;Q9HBM1;P62826;Q14683;O95271;P18754;Q13561;O147  
77}

16991 Pathogen[ P03346] interacts with 11 human  
partners:{O00139;Q9UH99;P18754;Q14204;P62826;O14777;Q14683;Q9HBM1;P27816;O95271;Q135  
61}

16992 Pathogen[ Q85601] interacts with 11 human  
partners:{P27816;P62826;Q14204;Q9UH99;Q14683;P18754;O95271;O14777;O00139;Q9HBM1;Q135  
61}

16993 Pathogen[ P14079] interacts with 13 human  
partners:{Q9HBM1;O95271;Q14204;O15066;O00139;Q13561;Q9UQE7;P62826;Q9UH99;Q14683;P187  
54;O14777;P27816}

16994 Pathogen[ P03383] interacts with 9 human  
partners:{Q14683;Q9UH99;P62826;P27816;P18754;Q9HBM1;Q13561;O14777;O95271}

16995 Pathogen[ P03410] interacts with 12 human  
partners:{Q14204;Q13561;P27816;O00139;Q9UQE7;Q9UH99;P62826;O95271;Q14683;Q9HBM1;P187  
54;O14777}

16996 Pathogen[ P14075] interacts with 10 human  
partners:{Q14683;Q13561;O14777;O00139;P62826;Q9UH99;P18754;Q9HBM1;O95271;P27816}

16997 Pathogen[ POC206] interacts with 12 human  
partners:{O95271;Q9HBM1;P18754;Q9UH99;O14777;P62826;P27816;Q14204;Q9UQE7;Q14683;O001  
39;Q13561}

16998 Pathogen[ P03363] interacts with 12 human  
partners:{Q13561;Q14204;P27816;Q9HBM1;O95271;O15066;O14777;O00139;P18754;P62826;Q146  
83;Q9UH99}

16999 [Cluster 1546]GO:0043331+P biological\_process [name] response to dsRNA [def] "Any  
process that results in a change in state or activity of a cell or an organism (in terms  
of movement, secretion, enzyme production, gene expression, etc.) as a result of a  
double-stranded RNA stimulus." [GOC

17000 Pathogen[ Q2Q067] interacts with 2 human partners:{Q13794;Q96FA3}

17001 Pathogen[ POC214] interacts with 2 human partners:{Q96FA3;Q13794}

17002 Pathogen[ P03346] interacts with 2 human partners:{Q96FA3;Q13794}

17003 Pathogen[ Q85601] interacts with 2 human partners:{Q96FA3;Q13794}

17004 Pathogen[ P14079] interacts with 2 human partners:{Q96FA3;Q13794}

17005 Pathogen[ P03383] interacts with 2 human partners:{Q96FA3;Q13794}

17006 Pathogen[ P03410] interacts with 2 human partners:{Q96FA3;Q13794}

17007 Pathogen[ P14075] interacts with 2 human partners:{Q96FA3;Q13794}

17008 Pathogen[ POC206] interacts with 2 human partners:{Q96FA3;Q13794}

17009 Pathogen[ P03363] interacts with 2 human partners:{Q13794;Q96FA3}

17010 [Cluster 1547]GO:0070294+P biological\_process [name] renal sodium ion absorption  
[def] "A renal system process in which sodium ions are taken up from the collecting  
ducts and proximal and distal loops of the nephron." [GOC

17011 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UH77}

17012 Pathogen[ POC214] interacts with 1 human partners:{Q9UH77}

17013 Pathogen[ P03346] interacts with 1 human partners:{Q9UH77}

17014 Pathogen[ Q85601] interacts with 1 human partners:{Q9UH77}

17015 Pathogen[ P14079] interacts with 1 human partners:{Q9UH77}

17016 Pathogen[ P03383] interacts with 1 human partners:{Q9UH77}

17017 Pathogen[ P03410] interacts with 1 human partners:{Q9UH77}

17018 Pathogen[ P14075] interacts with 1 human partners:{Q9UH77}

17019 Pathogen[ POC206] interacts with 1 human partners:{Q9UH77}

17020 Pathogen[ P03363] interacts with 1 human partners:{Q9UH77}



17021 [Cluster 1548]GO:0030098+P biological\_process [name] lymphocyte differentiation  
[def] "The process in which a relatively unspecialized precursor cell acquires specialized features of a lymphocyte. A lymphocyte is a leukocyte commonly found in the blood and lymph that has the characteristics of a large nucleus, a neutral staining cytoplasm, and prominent heterochromatin." [CL  
17022 Pathogen[ Q2Q067] interacts with 3 human partners:{Q13951;P15923;P17947}  
17023 Pathogen[ P0C214] interacts with 3 human partners:{P17947;P15923;Q13951}  
17024 Pathogen[ P03346] interacts with 3 human partners:{P15923;Q13951;P17947}  
17025 Pathogen[ Q85601] interacts with 3 human partners:{Q13951;P15923;P17947}  
17026 Pathogen[ P14079] interacts with 3 human partners:{Q14210;P15923;Q13951}  
17027 Pathogen[ P03383] interacts with 3 human partners:{P15923;Q13951;P17947}  
17028 Pathogen[ P03410] interacts with 4 human partners:{P17947;Q14210;P15923;Q13951}  
17029 Pathogen[ P14075] interacts with 3 human partners:{Q13951;P15923;P17947}  
17030 Pathogen[ P0C206] interacts with 3 human partners:{Q13951;P15923;P17947}  
17031 Pathogen[ P03363] interacts with 3 human partners:{P17947;P15923;Q13951}  
17032 [Cluster 1549]GO:0014002+P biological\_process [name] astrocyte development [def]  
"The process aimed at the progression of an astrocyte over time, from initial commitment of the cell to a specific fate, to the fully functional differentiated cell. An astrocyte is the most abundant type of glial cell. Astrocytes provide support for neurons and regulate the environment in which they function." [GOC  
17033 Pathogen[ Q2Q067] interacts with 5 human  
partners:{P14136;P20265;Q13144;P08670;Q00534}  
17034 Pathogen[ P0C214] interacts with 5 human  
partners:{P14136;P20265;Q00534;Q13144;P08670}  
17035 Pathogen[ P03346] interacts with 5 human  
partners:{P14136;P20265;P08670;Q00534;Q13144}  
17036 Pathogen[ Q85601] interacts with 5 human  
partners:{P08670;P14136;Q13144;Q00534;P20265}  
17037 Pathogen[ P14079] interacts with 4 human partners:{P20265;Q13144;P14136;P08670}  
17038 Pathogen[ P03383] interacts with 5 human  
partners:{P08670;P14136;Q00534;Q13144;P20265}  
17039 Pathogen[ P03410] interacts with 5 human  
partners:{Q00534;P08670;P14136;P20265;Q13144}  
17040 Pathogen[ P14075] interacts with 5 human  
partners:{Q00534;P20265;P14136;P08670;Q13144}  
17041 Pathogen[ P0C206] interacts with 5 human  
partners:{Q13144;P14136;P20265;P08670;Q00534}  
17042 Pathogen[ P03363] interacts with 5 human  
partners:{Q00534;P08670;P20265;P14136;Q13144}  
17043 [Cluster 1550]GO:0031334+P biological\_process [name] positive regulation of protein  
complex assembly [def] "Any process that activates or increases the frequency, rate  
or extent of protein complex assembly." [GOC  
17044 Pathogen[ Q2Q067] interacts with 5 human  
partners:{P63165;Q96IF1;Q15173;O94811;Q9UNN5}  
17045 Pathogen[ P0C214] interacts with 6 human  
partners:{O94811;Q15173;O14613;P63165;Q9UNN5;P55072}  
17046 Pathogen[ P03346] interacts with 9 human  
partners:{Q96IF1;O14613;P55072;P17542;Q9UNN5;P63165;Q5T2T1;O94811;Q15173}  
17047 Pathogen[ Q85601] interacts with 6 human  
partners:{Q15173;Q9UNN5;O94811;O14613;Q96IF1;P63165}  
17048 Pathogen[ P14079] interacts with 7 human  
partners:{O14613;Q15173;Q5T2T1;P63165;Q9UNN5;Q96IF1;O94811}  
17049 Pathogen[ P03383] interacts with 4 human partners:{Q15173;O94811;Q9UNN5;P63165}  
17050 Pathogen[ P03410] interacts with 7 human  
partners:{Q9UNN5;P63165;Q15173;O94811;Q96IF1;Q5T2T1;O14613}  
17051 Pathogen[ P14075] interacts with 5 human  
partners:{P63165;O94811;Q9UNN5;Q15173;O14613}  
17052 Pathogen[ P0C206] interacts with 8 human  
partners:{Q9UNN5;Q96IF1;O94811;O14613;Q15173;Q5T2T1;P55072;P63165}  
17053 Pathogen[ P03363] interacts with 7 human  
partners:{Q9UNN5;O94811;Q5T2T1;Q96IF1;P63165;O14613;Q15173}  
17054 [Cluster 1551]GO:0042102+P biological\_process [name] positive regulation of T cell  
proliferation [def] "Any process that activates or increases the rate or extent of T  
cell proliferation." [GOC  
17055 Pathogen[ Q2Q067] interacts with 4 human partners:{O43639;P16333;Q53G26;Q96EY1}  
17056 Pathogen[ P0C214] interacts with 4 human partners:{O43639;Q53G26;P16333;Q96EY1}  
17057 Pathogen[ P03346] interacts with 6 human  
partners:{O75995;P02549;O43639;P16333;Q53G26;Q96EY1}  
17058 Pathogen[ Q85601] interacts with 4 human partners:{Q53G26;P16333;O43639;Q96EY1}  
17059 Pathogen[ P14079] interacts with 6 human  
partners:{Q9BXL7;P16333;O43639;P29459;P02549;Q96EY1}  
17060 Pathogen[ P03383] interacts with 3 human partners:{P16333;Q96EY1;Q53G26}  
17061 Pathogen[ P03410] interacts with 7 human  
partners:{Q53G26;O43639;P16333;P02549;Q9BXL7;Q96EY1;P29459}  
17062 Pathogen[ P14075] interacts with 3 human partners:{Q53G26;P16333;Q96EY1}  
17063 Pathogen[ P0C206] interacts with 4 human partners:{Q53G26;P16333;Q96EY1;O43639}

17064 Pathogen[ P03363] interacts with 5 human partners:{P02549;O43639;Q53G26;P16333;Q96EY1}

17065 [Cluster 1552]GO:0071280+P biological\_process [name] cellular response to copper ion [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a copper ion stimulus." [GOC

17066 Pathogen[ Q2Q067] interacts with 1 human partners:{P13640}

17067 Pathogen[ P0C214] interacts with 1 human partners:{P13640}

17068 Pathogen[ P03346] interacts with 1 human partners:{P13640}

17069 Pathogen[ Q85601] interacts with 1 human partners:{P13640}

17070 Pathogen[ P14079] interacts with 1 human partners:{P13640}

17071 Pathogen[ P03383] interacts with 1 human partners:{P13640}

17072 Pathogen[ P03410] interacts with 1 human partners:{P13640}

17073 Pathogen[ P14075] interacts with 1 human partners:{P13640}

17074 Pathogen[ P0C206] interacts with 1 human partners:{P13640}

17075 Pathogen[ P03363] interacts with 1 human partners:{P13640}

17076 [Cluster 1553]GO:0071560+P biological\_process [name] cellular response to transforming growth factor beta stimulus [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a transforming growth factor beta stimulus." [GOC

17077 Pathogen[ Q2Q067] interacts with 5 human partners:{P35712;Q9NZC7;P29474;Q15327;P35711}

17078 Pathogen[ P0C214] interacts with 5 human partners:{P29474;Q15327;P35711;Q9NZC7;P35712}

17079 Pathogen[ P03346] interacts with 6 human partners:{P29474;Q15327;Q9NZC7;P48059;P35712;P35711}

17080 Pathogen[ Q85601] interacts with 6 human partners:{Q9NZC7;P35712;P35711;Q15327;P48059;P29474}

17081 Pathogen[ P14079] interacts with 7 human partners:{P35711;Q06413;P35712;Q9NZC7;Q15327;Q13164;P48059}

17082 Pathogen[ P03383] interacts with 4 human partners:{P35712;P29474;P35711;Q15327}

17083 Pathogen[ P03410] interacts with 5 human partners:{P35712;Q9NZC7;Q15327;P29474;P48059}

17084 Pathogen[ P14075] interacts with 4 human partners:{P29474;Q15327;P35711;P35712}

17085 Pathogen[ P0C206] interacts with 6 human partners:{Q15327;P35711;P48059;P29474;Q9NZC7;P35712}

17086 Pathogen[ P03363] interacts with 4 human partners:{P29474;P35711;Q15327;P35712}

17087 [Cluster 1554]GO:0001207+P

17088 Pathogen[ Q2Q067] interacts with 1 human partners:{Q58F21}

17089 Pathogen[ P0C214] interacts with 1 human partners:{Q58F21}

17090 Pathogen[ P03346] interacts with 1 human partners:{Q58F21}

17091 Pathogen[ Q85601] interacts with 1 human partners:{Q58F21}

17092 Pathogen[ P14079] interacts with 1 human partners:{Q58F21}

17093 Pathogen[ P03383] interacts with 1 human partners:{Q58F21}

17094 Pathogen[ P03410] interacts with 1 human partners:{Q58F21}

17095 Pathogen[ P14075] interacts with 1 human partners:{Q58F21}

17096 Pathogen[ P0C206] interacts with 1 human partners:{Q58F21}

17097 Pathogen[ P03363] interacts with 1 human partners:{Q58F21}

17098 [Cluster 1555]GO:0018364+P biological\_process [name] peptidyl-glutamine methylation [def] "The addition of a methyl group to a glutamine residue in a protein." [GOC

17099 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UI30}

17100 Pathogen[ P0C214] interacts with 1 human partners:{Q9UI30}

17101 Pathogen[ P03346] interacts with 1 human partners:{Q9UI30}

17102 Pathogen[ Q85601] interacts with 1 human partners:{Q9UI30}

17103 Pathogen[ P14079] interacts with 1 human partners:{Q9UI30}

17104 Pathogen[ P03383] interacts with 1 human partners:{Q9UI30}

17105 Pathogen[ P03410] interacts with 1 human partners:{Q9UI30}

17106 Pathogen[ P14075] interacts with 1 human partners:{Q9UI30}

17107 Pathogen[ P0C206] interacts with 1 human partners:{Q9UI30}

17108 Pathogen[ P03363] interacts with 1 human partners:{Q9UI30}

17109 [Cluster 1556]GO:0015966+P biological\_process [name] diadenosine tetraphosphate biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of diadenosine tetraphosphate, a derivative of the nucleoside adenosine with four phosphate groups attached." [GOC

17110 Pathogen[ Q2Q067] interacts with 2 human partners:{Q15046;P41250}

17111 Pathogen[ P0C214] interacts with 2 human partners:{P41250;Q15046}

17112 Pathogen[ P03346] interacts with 1 human partners:{P41250}

17113 Pathogen[ Q85601] interacts with 2 human partners:{Q15046;P41250}

17114 Pathogen[ P14079] interacts with 2 human partners:{Q15046;P41250}

17115 Pathogen[ P03383] interacts with 2 human partners:{Q15046;P41250}

17116 Pathogen[ P03410] interacts with 2 human partners:{P41250;Q15046}

17117 Pathogen[ P14075] interacts with 2 human partners:{P41250;Q15046}

17118 Pathogen[ P0C206] interacts with 2 human partners:{P41250;Q15046}

17119 Pathogen[ P03363] interacts with 1 human partners:{P41250}

17120 [Cluster 1557]GO:0016242+P biological\_process [name] negative regulation of macroautophagy [def] "Any process that stops, prevents, or reduces the frequency, rate

or extent of macroautophagy." [GOC

17121 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9Y250}

17122 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y250}

17123 Pathogen[ P03346] interacts with 1 human partners:{Q9Y250}

17124 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y250}

17125 Pathogen[ P14079] interacts with 1 human partners:{Q9Y250}

17126 Pathogen[ P03383] interacts with 1 human partners:{Q9Y250}

17127 Pathogen[ P03410] interacts with 1 human partners:{Q9Y250}

17128 Pathogen[ P14075] interacts with 1 human partners:{Q9Y250}

17129 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y250}

17130 Pathogen[ P03363] interacts with 1 human partners:{Q9Y250}

17131 [Cluster 1558]GO:0001782+P biological\_process [name] B cell homeostasis [def] "The process of regulating the proliferation and elimination of B cells such that the total number of B cells within a whole or part of an organism is stable over time in the absence of an outside stimulus." [GOC

17132 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9Y6K9;O14920}

17133 Pathogen[ P0C214] interacts with 3 human partners:{Q9Y6K9;P42574;O14920}

17134 Pathogen[ P03346] interacts with 3 human partners:{Q9Y6K9;P42574;O14920}

17135 Pathogen[ Q85601] interacts with 2 human partners:{Q9Y6K9;O14920}

17136 Pathogen[ P14079] interacts with 3 human partners:{Q06413;Q9Y6K9;O14836}

17137 Pathogen[ P03383] interacts with 2 human partners:{Q9Y6K9;O14920}

17138 Pathogen[ P03410] interacts with 3 human partners:{O14920;O14836;Q9Y6K9}

17139 Pathogen[ P14075] interacts with 2 human partners:{O14920;Q9Y6K9}

17140 Pathogen[ P0C206] interacts with 3 human partners:{O14920;Q9Y6K9;P42574}

17141 Pathogen[ P03363] interacts with 2 human partners:{O14920;Q9Y6K9}

17142 [Cluster 1559]GO:0007356+P biological\_process [name] thorax and anterior abdomen determination [def] "Specification of the central (trunk) regions of the embryo by the gap genes\_ exemplified in insects by the actions of the Kruppel gene product." [http

17143 Pathogen[ Q2Q067] interacts with 1 human partners:{P80723}

17144 Pathogen[ P0C214] interacts with 1 human partners:{P80723}

17145 Pathogen[ P03346] interacts with 1 human partners:{P80723}

17146 Pathogen[ Q85601] interacts with 1 human partners:{P80723}

17147 Pathogen[ P14079] interacts with 1 human partners:{P80723}

17148 Pathogen[ P03383] interacts with 1 human partners:{P80723}

17149 Pathogen[ P03410] interacts with 1 human partners:{P80723}

17150 Pathogen[ P14075] interacts with 1 human partners:{P80723}

17151 Pathogen[ P0C206] interacts with 1 human partners:{P80723}

17152 Pathogen[ P03363] interacts with 1 human partners:{P80723}

17153 [Cluster 1560]GO:0045368+P biological\_process [name] positive regulation of interleukin-13 biosynthetic process [def] "Any process that activates or increases the frequency, rate or extent of the chemical reactions and pathways resulting in the formation of interleukin-13." [GOC

17154 Pathogen[ Q2Q067] interacts with 1 human partners:{Q15306}

17155 Pathogen[ P0C214] interacts with 1 human partners:{Q15306}

17156 Pathogen[ P03346] interacts with 1 human partners:{Q15306}

17157 Pathogen[ Q85601] interacts with 1 human partners:{Q15306}

17158 Pathogen[ P14079] interacts with 1 human partners:{Q15306}

17159 Pathogen[ P03383] interacts with 1 human partners:{Q15306}

17160 Pathogen[ P03410] interacts with 1 human partners:{Q15306}

17161 Pathogen[ P14075] interacts with 1 human partners:{Q15306}

17162 Pathogen[ P0C206] interacts with 1 human partners:{Q15306}

17163 Pathogen[ P03363] interacts with 1 human partners:{Q15306}

17164 [Cluster 1561]GO:0001841+P biological\_process [name] neural tube formation [def] "The formation of a tube from the flat layer of ectodermal cells known as the neural plate. This will give rise to the central nervous system." [GOC

17165 Pathogen[ Q2Q067] interacts with 2 human partners:{Q14790;O43318}

17166 Pathogen[ P0C214] interacts with 3 human partners:{Q99807;O43318;Q14790}

17167 Pathogen[ P03346] interacts with 3 human partners:{Q06945;Q14790;O43318}

17168 Pathogen[ Q85601] interacts with 2 human partners:{Q14790;O43318}

17169 Pathogen[ P14079] interacts with 3 human partners:{Q99807;Q14790;Q9Y366}

17170 Pathogen[ P03383] interacts with 1 human partners:{O43318}

17171 Pathogen[ P03410] interacts with 3 human partners:{Q9Y366;O43318;Q99807}

17172 Pathogen[ P14075] interacts with 1 human partners:{O43318}

17173 Pathogen[ P0C206] interacts with 4 human partners:{O43318;Q99807;Q14790;Q86YT6}

17174 Pathogen[ P03363] interacts with 1 human partners:{O43318}

17175 [Cluster 1562]GO:0045088+P biological\_process [name] regulation of innate immune response [def] "Any process that modulates the frequency, rate or extent of the innate immune response, the organism's first line of defense against infection." [GOC

17176 Pathogen[ Q2Q067] interacts with 3 human partners:{P10914;Q13490;Q8IUD6}

17177 Pathogen[ P0C214] interacts with 5 human partners:{Q13490;Q8IUD6;P10914;Q9Y3Z3;P98170}

17178 Pathogen[ P03346] interacts with 7 human partners:{Q9Y3Z3;Q13489;Q8IUD6;P98170;P10914;Q13490;Q9Y2R2}

17179 Pathogen[ Q85601] interacts with 4 human partners:{Q13490;P98170;Q8IUD6;P10914}

17180 Pathogen[ P14079] interacts with 5 human partners:{Q9Y3Z3;Q96C10;Q8IUD6;P10914;Q13490}

17181 Pathogen[ P03383] interacts with 2 human partners:{P10914;Q13490}  
17182 Pathogen[ P03410] interacts with 4 human partners:{Q13490;P10914;Q96C10;Q9Y3Z3}  
17183 Pathogen[ P14075] interacts with 2 human partners:{Q13490;P10914}  
17184 Pathogen[ P0C206] interacts with 7 human  
partners:{P10914;P98170;Q8IUD6;Q9Y2R2;Q13489;Q96C10;Q13490}  
17185 Pathogen[ P03363] interacts with 7 human  
partners:{Q13490;Q9Y2R2;Q13489;P98170;P10914;Q9Y3Z3;Q8IUD6}  
17186 [Cluster 1563]GO:0001654+P biological\_process [name] eye development [def] "The  
process whose specific outcome is the progression of the eye over time, from its  
formation to the mature structure. The eye is the organ of sight." [GOC  
17187 Pathogen[ Q2Q067] interacts with 4 human partners:{Q9ULV5;Q6QNY0;O14770;P07315}  
17188 Pathogen[ P0C214] interacts with 5 human  
partners:{P07315;P11844;Q6QNY0;Q9ULV5;O14770}  
17189 Pathogen[ P03346] interacts with 7 human  
partners:{Q86Z02;Q6QNY0;P07316;P07315;Q9ULV5;O95343;O14770}  
17190 Pathogen[ Q85601] interacts with 5 human  
partners:{Q6QNY0;P07315;Q9ULV5;P11844;O14770}  
17191 Pathogen[ P14079] interacts with 6 human  
partners:{P07316;Q6QNY0;P11844;O14770;P07315;Q9ULV5}  
17192 Pathogen[ P03383] interacts with 5 human  
partners:{Q6QNY0;P11844;O14770;Q9ULV5;P07315}  
17193 Pathogen[ P03410] interacts with 6 human  
partners:{P07315;Q6QNY0;P11844;P07316;Q9ULV5;O14770}  
17194 Pathogen[ P14075] interacts with 5 human  
partners:{P11844;O14770;Q9ULV5;Q6QNY0;P07315}  
17195 Pathogen[ P0C206] interacts with 6 human  
partners:{O14770;P07315;Q9ULV5;P11844;P07316;Q6QNY0}  
17196 Pathogen[ P03363] interacts with 6 human  
partners:{P07316;P11844;Q9ULV5;P07315;O95343;Q6QNY0}  
17197 [Cluster 1564]GO:0001830+P biological\_process [name] trophodermal cell fate  
commitment [def] "The cell fate commitment of precursor cells that will become  
trophoderm cells." [GOC  
17198 Pathogen[ Q2Q067] interacts with 1 human partners:{Q15561}  
17199 Pathogen[ P0C214] interacts with 1 human partners:{Q15561}  
17200 Pathogen[ P03346] interacts with 1 human partners:{Q15561}  
17201 Pathogen[ Q85601] interacts with 1 human partners:{Q15561}  
17202 Pathogen[ P14079] interacts with 1 human partners:{Q15561}  
17203 Pathogen[ P03383] interacts with 1 human partners:{Q15561}  
17204 Pathogen[ P03410] interacts with 1 human partners:{Q15561}  
17205 Pathogen[ P14075] interacts with 1 human partners:{Q15561}  
17206 Pathogen[ P0C206] interacts with 1 human partners:{Q15561}  
17207 Pathogen[ P03363] interacts with 1 human partners:{Q15561}  
17208 [Cluster 1565]GO:0006120+P biological\_process [name] mitochondrial electron transport,  
NADH to ubiquinone [def] "The transfer of electrons from NADH to ubiquinone that occurs  
during oxidative phosphorylation, mediated by the multisubunit enzyme known as complex  
I." [ISBN  
17209 Pathogen[ Q2Q067] interacts with 10 human  
partners:{O43920;P56181;O75489;O96000;O95178;O43678;O75251;O75306;E9PQ53;Q9Y375}  
17210 Pathogen[ P0C214] interacts with 20 human  
partners:{Q16795;O75306;O43678;P56556;P28331;O43920;O95299;P17568;Q9Y375;Q16718;O145  
61;O95298;P09622;O96000;E9PQ53;O95182;O75489;O75251;P56181;O95178}  
17211 Pathogen[ P03346] interacts with 10 human  
partners:{P56181;O75489;O43678;O95178;O43920;Q9Y375;E9PQ53;O75251;O96000;O75306}  
17212 Pathogen[ Q85601] interacts with 7 human  
partners:{O75306;O43678;P56181;O96000;Q9Y375;O43920;E9PQ53}  
17213 Pathogen[ P14079] interacts with 31 human  
partners:{P56181;O43674;O43677;O43181;O95169;P56556;Q9Y375;O95139;O96000;O95167;O753  
06;P17568;O95182;O43676;O43678;P51970;O95178;O75251;O14561;O95299;E9PQ53;O75489;P039  
23;Q16718;P03897;O43920;O15239;O00483;P03901;P03886;O95298}  
17214 Pathogen[ P03383] interacts with 10 human  
partners:{O75251;O96000;O43678;O43920;O75489;O75306;O95178;Q9Y375;E9PQ53;P56181}  
17215 Pathogen[ P03410] interacts with 34 human  
partners:{O95168;O43674;P56556;P17568;O95178;O75380;O43678;O75251;O95299;P51970;O439  
20;O96000;O95167;O15239;Q9Y6M9;P03886;O00483;O95298;O75438;E9PQ53;P56181;O14561;O754  
89;Q9Y375;P03897;O43677;O95169;O43181;Q16718;O75306;O43676;P03901;P03923;O95182}  
17216 Pathogen[ P14075] interacts with 16 human  
partners:{O43674;P56181;Q9Y375;O96000;O95182;O43677;O43920;O75306;O14561;O95298;O436  
78;O75251;E9PQ53;O75489;O95178;O43676}  
17217 Pathogen[ P0C206] interacts with 17 human  
partners:{P56181;O75251;O43920;O75306;O95182;O95298;O14561;O00483;P17568;O95178;Q9Y3  
75;O43678;O75489;E9PQ53;O96000;O43674;P56556}  
17218 Pathogen[ P03363] interacts with 3 human partners:{Q9Y375;O96000;P56181}  
17219 [Cluster 1566]GO:0040016+P biological\_process [name] embryonic cleavage [def] "The  
first few specialized divisions of an activated animal egg." [GOC  
17220 Pathogen[ Q2Q067] interacts with 4 human partners:{P11387;Q9NY61;P11388;Q13618}  
17221 Pathogen[ P0C214] interacts with 4 human partners:{Q13618;Q9NY61;P11388;P11387}

17222 Pathogen[ P03346] interacts with 5 human partners:{P11388;Q13618;Q6W0C5;Q9NY61;P11387}

17223 Pathogen[ Q85601] interacts with 4 human partners:{Q9NY61;P11387;P11388;Q13618}

17224 Pathogen[ P14079] interacts with 4 human partners:{P11388;Q9NY61;Q13618;Q6W0C5}

17225 Pathogen[ P03383] interacts with 3 human partners:{Q9NY61;P11387;Q13618}

17226 Pathogen[ P03410] interacts with 5 human partners:{Q9NY61;Q13618;P11387;P11388;Q6W0C5}

17227 Pathogen[ P14075] interacts with 3 human partners:{P11387;Q13618;Q9NY61}

17228 Pathogen[ P0C206] interacts with 5 human partners:{Q13618;P11388;Q6W0C5;P11387;Q9NY61}

17229 Pathogen[ P03363] interacts with 4 human partners:{P11387;Q13618;Q9NY61;Q6W0C5}

17230 [Cluster 1567]GO:0010955+P biological\_process [name] negative regulation of protein processing [def] "Any process that decreases the rate, frequency or extent of protein maturation by peptide bond cleavage." [GOC

17231 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BUX1}

17232 Pathogen[ P0C214] interacts with 2 human partners:{Q9BUX1;P07093}

17233 Pathogen[ P03346] interacts with 1 human partners:{Q9BUX1}

17234 Pathogen[ Q85601] interacts with 2 human partners:{Q9BUX1;P07093}

17235 Pathogen[ P14079] interacts with 3 human partners:{P54826;Q92896;Q9BUX1}

17236 Pathogen[ P03383] interacts with 1 human partners:{Q9BUX1}

17237 Pathogen[ P03410] interacts with 3 human partners:{Q9BUX1;Q92896;P54826}

17238 Pathogen[ P14075] interacts with 2 human partners:{Q9BUX1;P54826}

17239 Pathogen[ P0C206] interacts with 2 human partners:{Q9BUX1;P54826}

17240 Pathogen[ P03363] interacts with 1 human partners:{Q9BUX1}

17241 [Cluster 1568]GO:0048278+P biological\_process [name] vesicle docking [def] "The initial attachment of a transport vesicle membrane to the target membrane, mediated by proteins protruding from the membrane of the vesicle and the target membrane. Docking requires only that the two membranes come close enough for these proteins to interact and adhere." [GOC

17242 Pathogen[ Q2Q067] interacts with 1 human partners:{000471}

17243 Pathogen[ P0C214] interacts with 1 human partners:{000471}

17244 Pathogen[ P03346] interacts with 1 human partners:{000471}

17245 Pathogen[ Q85601] interacts with 1 human partners:{000471}

17246 Pathogen[ P14079] interacts with 1 human partners:{000471}

17247 Pathogen[ P03383] interacts with 1 human partners:{000471}

17248 Pathogen[ P03410] interacts with 1 human partners:{000471}

17249 Pathogen[ P14075] interacts with 1 human partners:{000471}

17250 Pathogen[ P0C206] interacts with 1 human partners:{000471}

17251 Pathogen[ P03363] interacts with 1 human partners:{000471}

17252 [Cluster 1569]GO:0048625+P biological\_process [name] myoblast cell fate commitment [def] "The process in which the developmental fate of a cell becomes restricted such that it will develop into a myoblast cell. A myoblast is a mononucleate cell type that, by fusion with other myoblasts, gives rise to the myotubes that eventually develop into skeletal muscle fibers." [CL

17253 Pathogen[ Q2Q067] interacts with 2 human partners:{P78337;Q99814}

17254 Pathogen[ P0C214] interacts with 2 human partners:{P78337;Q99814}

17255 Pathogen[ P03346] interacts with 2 human partners:{P78337;Q99814}

17256 Pathogen[ Q85601] interacts with 2 human partners:{Q99814;P78337}

17257 Pathogen[ P14079] interacts with 2 human partners:{Q99814;P78337}

17258 Pathogen[ P03383] interacts with 1 human partners:{P78337}

17259 Pathogen[ P03410] interacts with 2 human partners:{Q99814;P78337}

17260 Pathogen[ P14075] interacts with 1 human partners:{P78337}

17261 Pathogen[ P0C206] interacts with 2 human partners:{P78337;Q99814}

17262 Pathogen[ P03363] interacts with 2 human partners:{Q99814;P78337}

17263 [Cluster 1570]GO:0006006+P biological\_process [name] glucose metabolic process [def] "The chemical reactions and pathways involving glucose, the aldohexose gluco-hexose. D-glucose is dextrorotatory and is sometimes known as dextrose\_ it is an important source of energy for living organisms and is found free as well as combined in homo- and hetero-oligosaccharides and polysaccharides." [ISBN

17264 Pathogen[ Q2Q067] interacts with 29 human partners:{P31749;P13929;P05062;P02511;Q8N5D0;P35573;P60174;P36871;Q16851;Q96G03;P46976;P09972;P54840;Q12904;P09467;P18669;P13807;P04406;P40925;P15259;P06744;P22415;O14556;P40926;P27986;Q9UBX3;Q03060;P06733;Q6PCE3}

17265 Pathogen[ P0C214] interacts with 40 human partners:{Q04446;P11413;Q12904;P35558;Q8N5D0;P15259;P02511;P40926;O14556;P35573;P46976;P05062;Q6PCE3;Q9UBX3;O60825;P13929;Q96G03;P09467;P36871;Q15124;P14618;P09104;Q16851;O15488;Q93100;P06733;P09972;Q16822;Q03060;P54840;P16118;P60174;P22415;P27986;P46020;O00757;P13807;P04406;P00558;P31749}

17266 Pathogen[ P03346] interacts with 32 human partners:{P09972;P13807;P04406;P13929;Q9UBX3;P60174;P09467;P35573;P46976;P36871;Q01469;Q9UBC0;P06733;Q6PCE3;P18669;Q12904;P02511;O14556;Q8N5D0;Q16851;P31749;P40926;Q92481;Q96G03;P54840;P15259;P06744;Q03060;P05062;P40925;P27986;P22415}

17267 Pathogen[ Q85601] interacts with 34 human partners:{P60174;P13807;P31749;Q9UBX3;P18669;O60825;P06733;O00757;P06744;P05062;P16118;P15259;P27986;P22415;Q16851;P46976;P35573;O14556;P14618;Q15124;P13929;P36871;P02511;P09972;P09467;Q04446;P40925;P54840;Q6PCE3;P04406;Q03060;Q8N5D0;Q96G03;P40926}

- 17268 Pathogen[ P14079] interacts with 29 human partners: {P31751;P15259;Q8N5D0;Q16851;P02511;P13807;Q03060;P09972;Q93100;P06744;Q15124;P06733;P46976;Q9Y6X1;P35573;Q6PCE3;P13929;P18669;Q96G03;Q12904;P09467;Q01469;P40925;P54840;P36871;P46020;O15488;P04406;P22415}
- 17269 Pathogen[ P03383] interacts with 25 human partners: {P27986;Q96G03;Q12904;P40926;P31749;P18669;P02511;P13807;P09467;P09972;P40925;P35573;Q6PCE3;Q16822;Q16851;P06744;P46976;O14556;P04406;P54840;P06733;Q03060;Q8N5D0;P15259;P22415}
- 17270 Pathogen[ P03410] interacts with 38 human partners: {P46976;Q16822;P27986;O14556;P06744;Q6PCE3;Q16851;P36871;P54840;P16118;P46020;Q04446;P06733;P35573;P31749;Q15124;Q03060;P05062;P09467;Q9UBX3;Q00757;Q12904;Q93100;Q9Y6X1;P09972;P02511;P22415;P13807;P15259;Q8N5D0;P04406;P18669;O15488;Q96G03;P13929;P40926;Q01469;P40925}
- 17271 Pathogen[ P14075] interacts with 27 human partners: {P06733;P40925;P06744;Q8N5D0;Q16822;Q93100;P18669;Q96G03;P40926;P46976;P54840;Q6PCE3;P16118;P31749;P04406;Q12904;P27986;P35573;P02511;P09972;P15259;Q03060;P13807;P22415;P09467;Q16851;O14556}
- 17272 Pathogen[ P0C206] interacts with 41 human partners: {P06733;Q16851;Q03060;P05062;P31749;Q93100;P46976;P60174;Q96G03;Q04446;P09467;Q9UBC0;Q16822;Q9UBX3;P27986;P13807;Q15124;Q6PCE3;P46020;P54840;P06744;P22415;O14556;P40925;Q00757;P04406;P40926;Q06825;P09972;P16118;Q8N5D0;P02511;Q01469;P13929;P18669;Q12904;P14618;P36871;P15259;O15488;P35573}
- 17273 Pathogen[ P03363] interacts with 22 human partners: {Q9UBC0;P13807;P06744;P18669;Q16851;Q8N5D0;P40925;P06733;Q01469;P09972;P31749;P04406;P54840;P22415;Q6PCE3;O14556;P35573;P46976;P27986;P15259;Q03060;Q96G03}
- 17274 [Cluster 1571]GO:000086+P biological\_process [name] G2/M transition of mitotic cell cycle [def] "Progression from G2 phase to M phase of the mitotic cell cycle." [GOC
- 17275 Pathogen[ Q2Q067] interacts with 84 human partners: {P30153;Q14008;Q96RT8;Q9P209;Q14980;Q9UJX5;O95684;P62258;Q7Z460;O43805;Q14204;Q75935;Q7Z7A1;P54274;P61981;Q8NHV4;P63167;Q86XR8;Q9UJT9;P07900;Q9HC77;Q9UPV0;O14757;Q9NVX0;Q9NXR1;A8K8P3;Q96SN8;P30304;Q5BJF6;Q5JTW2;P14635;Q8TEP8;Q08050;Q14203;P24522;P30307;Q9UM13;Q9BYV8;O43768;Q8NHQ1;P51948;Q13561;Q66GS9;Q07666;Q9Y6N9;O96017;O43303;Q96RT7;Q6P1X5;O95067;Q9BSJ2;Q96MT8;Q15078;P50613;P78396;P56211;Q99996;Q16890;P38936;P20248;P50570;O75665;O94986;Q13309;P23258;Q9UJX4;Q8N371;P41208;Q86SQ7;Q13409;Q9UGJ1;O95613;P30305;P24941;Q8ND76;Q15691;Q15154;O15392;P42772;Q9BV73;P51946;Q96CW5;O15297;Q8TAP6}
- 17276 Pathogen[ P0C214] interacts with 83 human partners: {O43768;O15078;Q8N371;Q8ND76;P20248;P51946;O75935;O43805;P30307;Q9BSJ2;Q15154;P24522;Q14008;O94986;O95684;P30153;Q14203;Q9P209;Q8NHQ1;P50613;Q13309;Q96SN8;A8K8P3;O94921;Q9Y6N9;Q9UJX5;Q8NHV4;Q7Z7A1;Q9BYV8;P23258;Q9HC77;Q96MT8;Q14204;P14635;Q96CW5;Q15691;P38936;Q16890;Q96RT7;Q9UGJ1;Q14980;Q8TEP8;Q9UPV0;O43303;P56211;P51948;O96017;Q66GS9;Q07666;Q86XR8;P78396;O95067;P24941;P30305;Q8TAP6;Q6P1X5;Q96RT8;P41208;O75665;O15392;O15297;Q9UJX4;Q7Z460;Q9BV73;P61981;Q9H469;Q5BJF6;Q86SQ7;P50570;O95613;Q99996;Q13409;O14757;Q9NXR1;Q9NVX0;P30304;Q13561;Q9UJT9;Q9UM13;P42772;P54274;P63167}
- 17277 Pathogen[ P03346] interacts with 87 human partners: {Q9Y6N9;Q7Z7A1;Q8ND76;P78396;P50570;Q9H469;P07900;O96017;Q86XR8;Q5JTW2;O15392;O95684;P23258;Q96RT8;Q9UJT9;Q15154;O75935;Q15691;P54274;P62258;Q8NHV4;P24941;P30304;P42772;Q9HC77;O14757;Q9NXR1;Q9P209;Q9UM13;Q08050;Q14204;Q14203;Q96CW5;O95067;P56211;O43805;P30305;Q14980;Q8TEP8;O43768;P30153;P41208;Q07666;Q16890;Q9NVX0;Q66GS9;O75665;P14635;Q86SQ7;O94986;Q13309;Q9UJX5;Q96SN8;Q14008;P51946;Q9UGJ1;O15297;P20248;Q6P1X5;Q8TAP6;Q5BJF6;P61981;Q9BYV8;Q8N371;Q9UJX4;Q9Y2I6;Q99996;Q13409;Q8NHQ1;P63167;Q9BSJ2;Q7Z460;O94921;P38936;O95613;O15078;Q96RT7;A8K8P3;P51948;P30307;O43303;P24522;Q9UPV0;Q96MT8;Q13561;O00444;Q9BV73}
- 17278 Pathogen[ Q85601] interacts with 89 human partners: {Q8NHQ1;P51946;Q16890;P61163;P61981;Q13409;Q13309;O94986;O96017;Q07666;Q15154;Q8N371;O95684;Q14008;Q96RT8;Q96SN8;O75935;Q9NVX0;Q8NHV4;Q8ND76;P42772;Q9HC77;Q14204;Q9P209;P30153;P24522;O15078;O15392;P30304;Q5BJF6;Q9Y2I6;Q14203;Q96CW5;P51948;O43303;P56211;Q5JTW2;Q8TEP8;P23258;O14757;P30305;Q9UPV0;Q86XR8;Q9BSJ2;Q66GS9;P30307;Q86SQ7;O75665;O43768;Q9UGJ1;P14635;Q9UJX5;Q9BV73;P62258;Q9H469;Q9UM13;Q9Y6N9;Q15691;Q96MT8;Q9UJT9;P50570;O15297;Q6P1X5;P20248;Q9BYV8;Q7Z7A1;P78396;O94921;P50613;P07900;Q14980;Q9UJX4;Q8TAP6;Q99996;Q08050;Q7Z460;P38936;O95613;O95067;Q9NXR1;A8K8P3;P24941;P63167;P51955;O43805;P54274;Q96RT7;Q13561;P41208}
- 17279 Pathogen[ P14079] interacts with 84 human partners: {Q15691;Q14980;P54274;Q16890;P30307;Q99996;Q8TEP8;O43768;Q7Z460;P51946;O15297;O95684;Q9P209;Q13309;P78396;O94986;Q9UGJ1;Q9UJX5;Q9NVX0;Q14204;Q5JTW2;Q66GS9;O15392;O95067;Q9BV73;Q8ND76;A8K8P3;Q8TAP6;P56211;P30304;P50570;Q6P1X5;P50613;P61981;Q5BJF6;P14635;P51955;Q8NHV4;Q07666;P38936;Q9UM13;Q96RT8;P48681;P23258;P24522;Q96RT7;P07900;Q13409;Q13561;Q8TCU4;Q9BSJ2;P62258;O43303;P61163;Q86SQ7;P41208;P20248;Q9Y6N9;O95613;P63167;O15078;Q96FC9;Q8N371;P30305;Q8NHQ1;O75665;P30153;Q15154;Q9UJT9;Q86XR8;Q9NXR1;Q9Y2I6;O75935;Q9HC77;Q96SN8;Q9UJX4;Q9BYV8;Q14203;O43805;Q7Z7A1;Q96CW5;Q9UPV0;Q14008;P51948}
- 17280 Pathogen[ P03383] interacts with 69 human partners: {Q7Z7A1;P30307;Q86XR8;O14757;Q7Z460;Q9BSJ2;O94986;Q14008;Q15691;P51948;O95684;Q9NVX0;Q14203;Q96SN8;Q96CW5;O43303;P41208;Q8NHV4;P30304;Q9BV73;P24522;Q9HC77;P30153;O15297;P07900;P14635;Q96MT8;P78396;A8K8P3;Q8TEP8;Q66GS9;Q86SQ7;P50613;P42772;Q9UM

- 13;P51946;O43768;O15078;P24941;Q15154;O95067;Q9BYV8;O75935;Q07666;Q8ND76;Q6P1X5;O94921;Q5BJF6;Q14980;Q9UJX4;Q9UPV0;Q8TAP6;P61981;Q9P209;Q9UJX5;Q13309;Q99996;Q8N371;O95613;Q13561;P56211;P63167;O75665;P62258;Q16890;P20248;P54274;Q8NHQ1;O96017}
- 17281 Pathogen[ P03410] interacts with 85 human partners: {O95684;P62258;O75665;Q7Z460;Q14204;O15392;Q9H469;Q13409;Q8TEP8;Q13561;Q9Y2I6;O43303;Q66GS9;P42772;Q9NXR1;Q9HC77;Q99996;Q15154;P54274;Q7Z7A1;Q9UJX4;P24522;Q14008;Q96SN8;P51946;Q9UM13;O95067;Q8TCU4;P63167;Q9P209;P50570;P07900;Q9BYV8;P50613;P61163;Q07666;P78396;P61981;O43805;Q8NHV4;O94986;Q14980;O15297;Q8TAP6;P14635;P38936;Q15691;Q13309;P30304;P24941;Q9Y6N9;Q9NVX0;Q6P1X5;O15078;O96017;Q86SQ7;O14757;Q9UJX5;Q5BJF6;O75935;Q9BSJ2;P20248;O43768;P51948;P30153;Q96RT8;P23258;Q16890;Q9UPV0;Q96FC9;Q96CW5;P30305;Q9UJT9;Q96RT7;Q8N371;O95613;P41208;P56211;Q9BV73;Q8ND76;P30307;Q9UGJ1;Q5JTW2;A8K8P3;Q14203}
- 17282 Pathogen[ P14075] interacts with 70 human partners: {Q96MT8;O15297;O43303;Q9BYV8;O95067;P24941;O95684;Q8N371;Q07666;P14635;Q86SQ7;P50613;Q8NHV4;Q7Z460;Q13561;Q6P1X5;A8K8P3;Q08050;Q9HC77;Q96SN8;Q8NHQ1;P61981;Q8TEP8;P78396;Q9UPV0;P07900;P54274;Q66GS9;Q99996;O15078;Q5BJF6;O43768;O75935;Q9UJX5;Q86XR8;O96017;Q16890;Q15691;Q9BV73;P20248;Q8TAP6;Q13309;P30304;O94986;P41208;P30153;P51946;Q15154;Q9UJX4;P24522;P42772;Q9NVX0;Q8ND76;O75665;P56211;O95613;Q9P209;Q14203;Q14008;Q9UM13;Q14980;O94921;Q9BSJ2;P30307;Q7Z7A1;P63167;O14757;Q96CW5;P51948;P62258}
- 17283 Pathogen[ P0C206] interacts with 91 human partners: {Q5JTW2;Q9UJT9;Q8N371;Q86XR8;O94986;Q96SN8;Q9HC77;Q86SQ7;Q14008;P24522;Q5BJF6;O95684;P30307;O96017;Q13309;P30153;Q96RT7;P51955;Q9Y6N9;Q9UJX5;P56211;Q8TCU4;Q96CW5;P63167;Q15691;Q16890;O00444;P20248;A8K8P3;Q9UPV0;P42772;P30305;Q99996;Q07666;Q13409;Q9UGJ1;Q8TEP8;Q9NVX0;P61163;P30291;Q8TAP6;P54274;Q14204;Q9UJX4;P50613;O95613;P62258;P07900;P61981;O15078;Q66GS9;O43768;Q9BYV8;P38936;Q9BV73;Q8NHV4;O15392;P23258;O75665;Q13561;Q08050;P30304;Q6P1X5;Q7Z7A1;P78396;P41208;O95067;Q9NXR1;Q8ND76;Q9P209;P14635;Q14980;O43805;Q9UM13;Q96MT8;Q7Z460;Q14203;O75935;Q15154;O15297;Q9H469;Q8NHQ1;P24941;Q9BSJ2;O94921;P50570;Q99640;P51946;P51948;Q9Y2I6;O43303}
- 17284 Pathogen[ P03363] interacts with 80 human partners: {Q5BJF6;Q9Y6N9;Q9Y2I6;Q13309;P62258;Q07666;Q7Z7A1;A8K8P3;P07900;P63167;Q9HC77;Q9BYV8;Q99996;Q96MT8;O15078;Q9UJT9;Q8NHV4;O43805;Q66GS9;P20248;Q13561;O43303;Q14980;Q15691;O95684;P51946;Q8NHQ1;P50570;O95613;O94986;Q8ND76;Q14204;Q8TAP6;P24941;Q9UJX5;P41208;Q9P209;Q8TEP8;Q9UJX4;O96017;P30304;Q5JTW2;P61163;Q08050;O95067;P42772;P54274;Q96RT8;Q9NVX0;P78396;O75935;Q7Z460;O43768;P24522;Q13409;Q9UPV0;Q9UM13;Q96RT7;Q16890;P61981;Q9UGJ1;P56211;Q86XR8;Q14008;O15297;Q9NXR1;P23258;P30153;P30307;Q86SQ7;Q15154;Q6P1X5;Q14203;Q9BSJ2;Q9BV73;Q9H469;O75665;Q96CW5;Q96SN8;O14757}
- 17285 [Cluster 1572]GO:0046622+P biological\_process [name] positive regulation of organ growth [def] "Any process that activates or increases the frequency, rate or extent of growth of an organ of an organism." [GOC]
- 17286 Pathogen[ Q2Q067] interacts with 3 human partners: {P55895;P46937;P16989}
- 17287 Pathogen[ P0C214] interacts with 3 human partners: {P16989;P46937;P55895}
- 17288 Pathogen[ P03346] interacts with 6 human partners: {O75995;P46937;Q14774;P55895;Q96QS3;P16989}
- 17289 Pathogen[ Q85601] interacts with 3 human partners: {P46937;P16989;P55895}
- 17290 Pathogen[ P14079] interacts with 4 human partners: {P46937;P16989;Q9Y6X1;P13232}
- 17291 Pathogen[ P03383] interacts with 3 human partners: {P16989;P55895;P46937}
- 17292 Pathogen[ P03410] interacts with 5 human partners: {P16989;P55895;Q9Y6X1;P46937;P13232}
- 17293 Pathogen[ P14075] interacts with 3 human partners: {P16989;P46937;P55895}
- 17294 Pathogen[ P0C206] interacts with 3 human partners: {P46937;P16989;P55895}
- 17295 Pathogen[ P03363] interacts with 4 human partners: {P46937;Q96QS3;P55895;P16989}
- 17296 [Cluster 1573]GO:0006099+P biological\_process [name] tricarboxylic acid cycle [def] "A nearly universal metabolic pathway in which the acetyl group of acetyl coenzyme A is effectively oxidized to two CO2 and four pairs of electrons are transferred to coenzymes. The acetyl group combines with oxaloacetate to form citrate, which undergoes successive transformations to isocitrate, 2-oxoglutarate, succinyl-CoA, succinate, fumarate, malate, and oxaloacetate again, thus completing the cycle. In eukaryotes the tricarboxylic acid is confined to the mitochondria. See also glyoxylate cycle." [ISBN
- 17297 Pathogen[ Q2Q067] interacts with 8 human partners: {Q9ULD0;P31040;P07954;P40925;P21912;Q9P2R7;P21399;P40926}
- 17298 Pathogen[ P0C214] interacts with 20 human partners: {O75874;Q99643;P11177;O75390;Q5I0G3;P07954;P48735;P40926;Q99798;Q9P2R7;P50213;O43837;Q9ULD0;P09622;O14521;Q96I99;P21912;P21399;P36957;P51553}
- 17299 Pathogen[ P03346] interacts with 8 human partners: {O75390;P31040;Q9ULD0;P21912;P40926;P40925;P07954;P21399}
- 17300 Pathogen[ Q85601] interacts with 8 human partners: {P21399;P21912;Q9P2R7;P07954;P31040;P40925;Q9ULD0;P40926}
- 17301 Pathogen[ P14079] interacts with 8 human partners: {P07954;P21399;Q9P2R7;P31040;O14521;P40925;Q9ULD0;P21912}
- 17302 Pathogen[ P03383] interacts with 5 human partners: {P40926;P31040;Q9P2R7;P40925;Q9ULD0}
- 17303 Pathogen[ P03410] interacts with 11 human partners: {Q9P2R7;Q9ULD0;P21399;P07954;P31040;P21912;Q99643;P40926;O14521;P40925;O75390}
- 17304 Pathogen[ P14075] interacts with 5 human partners: {P40925;P40926;P31040;Q9ULD0;Q9P2R7}

17305 Pathogen[ P0C206] interacts with 12 human partners:{P50213;Q9ULD0;O14521;Q9P2R7;P40925;P40926;P31040;O75390;Q99798;P07954;P21912;P21399}

17306 Pathogen[ P03363] interacts with 3 human partners:{P31040;P40925;Q9ULD0}

17307 [Cluster 1574]GO:0000416+P biological\_process [name] positive regulation of histone H3-K36 methylation [def] "Any process that activates or increases the frequency, rate or extent of the covalent addition of a methyl group to the lysine at position 36 of histone H3." [GOC

17308 Pathogen[ Q2Q067] interacts with 1 human partners:{Q6ZW49}

17309 Pathogen[ P0C214] interacts with 1 human partners:{Q6ZW49}

17310 Pathogen[ P03346] interacts with 1 human partners:{Q6ZW49}

17311 Pathogen[ Q85601] interacts with 1 human partners:{Q6ZW49}

17312 Pathogen[ P14079] interacts with 1 human partners:{Q6ZW49}

17313 Pathogen[ P03383] interacts with 1 human partners:{Q6ZW49}

17314 Pathogen[ P03410] interacts with 1 human partners:{Q6ZW49}

17315 Pathogen[ P14075] interacts with 1 human partners:{Q6ZW49}

17316 Pathogen[ P0C206] interacts with 1 human partners:{Q6ZW49}

17317 Pathogen[ P03363] interacts with 1 human partners:{Q6ZW49}

17318 [Cluster 1575]GO:0031087+P biological\_process [name] deadenylation-independent decapping of nuclear-transcribed mRNA [def] "Cleavage of the 5'-cap of a nuclear-transcribed mRNA that is independent of poly(A) tail shortening." [GOC

17319 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NPJ4}

17320 Pathogen[ P0C214] interacts with 1 human partners:{Q9NPJ4}

17321 Pathogen[ P03346] interacts with 1 human partners:{Q9NPJ4}

17322 Pathogen[ Q85601] interacts with 1 human partners:{Q9NPJ4}

17323 Pathogen[ P14079] interacts with 1 human partners:{Q9NPJ4}

17324 Pathogen[ P03383] interacts with 1 human partners:{Q9NPJ4}

17325 Pathogen[ P03410] interacts with 1 human partners:{Q9NPJ4}

17326 Pathogen[ P14075] interacts with 1 human partners:{Q9NPJ4}

17327 Pathogen[ P0C206] interacts with 1 human partners:{Q9NPJ4}

17328 Pathogen[ P03363] interacts with 1 human partners:{Q9NPJ4}

17329 [Cluster 1576]GO:0031664+P biological\_process [name] regulation of lipopolysaccharide-mediated signaling pathway [def] "Any process that modulates the frequency, rate or extent of signaling in response to detection of lipopolysaccharide." [GOC

17330 Pathogen[ Q2Q067] interacts with 1 human partners:{Q5TAX3}

17331 Pathogen[ P0C214] interacts with 1 human partners:{Q5TAX3}

17332 Pathogen[ P03346] interacts with 1 human partners:{Q5TAX3}

17333 Pathogen[ Q85601] interacts with 1 human partners:{Q5TAX3}

17334 Pathogen[ P14079] interacts with 1 human partners:{Q5TAX3}

17335 Pathogen[ P03383] interacts with 1 human partners:{Q5TAX3}

17336 Pathogen[ P03410] interacts with 1 human partners:{Q5TAX3}

17337 Pathogen[ P14075] interacts with 1 human partners:{Q5TAX3}

17338 Pathogen[ P0C206] interacts with 1 human partners:{Q5TAX3}

17339 Pathogen[ P03363] interacts with 1 human partners:{Q5TAX3}

17340 [Cluster 1577]GO:0032915+P biological\_process [name] positive regulation of transforming growth factor beta2 production [def] "Any process that activates or increases the frequency, rate, or extent of production of transforming growth factor-beta2." [GOC

17341 Pathogen[ Q2Q067] interacts with 1 human partners:{P15336}

17342 Pathogen[ P0C214] interacts with 1 human partners:{P15336}

17343 Pathogen[ P03346] interacts with 1 human partners:{P15336}

17344 Pathogen[ Q85601] interacts with 1 human partners:{P15336}

17345 Pathogen[ P14079] interacts with 1 human partners:{P15336}

17346 Pathogen[ P03383] interacts with 1 human partners:{P15336}

17347 Pathogen[ P03410] interacts with 1 human partners:{P15336}

17348 Pathogen[ P14075] interacts with 1 human partners:{P15336}

17349 Pathogen[ P0C206] interacts with 1 human partners:{P15336}

17350 Pathogen[ P03363] interacts with 1 human partners:{P15336}

17351 [Cluster 1578]GO:0060136+P biological\_process [name] embryonic process involved in female pregnancy [def] "A reproductive process occurring in the embryo or fetus that allows the embryo or fetus to develop within the mother." [GOC

17352 Pathogen[ Q2Q067] interacts with 3 human partners:{Q00613;Q02447;P08047}

17353 Pathogen[ P0C214] interacts with 4 human partners:{Q00613;P17275;Q02447;P08047}

17354 Pathogen[ P03346] interacts with 4 human partners:{Q00613;P17275;P08047;Q02447}

17355 Pathogen[ Q85601] interacts with 4 human partners:{Q00613;P08047;Q02447;P17275}

17356 Pathogen[ P14079] interacts with 3 human partners:{Q02447;Q00613;P17275}

17357 Pathogen[ P03383] interacts with 4 human partners:{P08047;Q02447;Q00613;P17275}

17358 Pathogen[ P03410] interacts with 4 human partners:{Q00613;Q02447;P17275;P08047}

17359 Pathogen[ P14075] interacts with 4 human partners:{Q00613;P17275;Q02447;P08047}

17360 Pathogen[ P0C206] interacts with 4 human partners:{P17275;Q00613;P08047;Q02447}

17361 Pathogen[ P03363] interacts with 4 human partners:{Q02447;P17275;Q00613;P08047}

17362 [Cluster 1579]GO:0007507+P biological\_process [name] heart development [def] "The process whose specific outcome is the progression of the heart over time, from its formation to the mature structure. The heart is a hollow, muscular organ, which, by contracting rhythmically, keeps up the circulation of the blood." [GOC



- 17363 Pathogen[ Q2Q067] interacts with 34 human  
partners: {O14786;P49959;Q9UKV0;Q8WW38;O96004;Q13625;Q9NYJ8;Q96FH0;P41134;Q8TDY2;Q14934;Q14790;P11831;P12004;Q9UQL6;O94992;Q6W2J9;Q9HB71;Q9BQ70;O14641;O95644;P13807;Q8IX07;Q15796;Q9NNW7;Q12968;Q86U86;Q14686;Q7Z6M4;Q9NSC2;Q9HBD4;Q14188;Q8NB12;Q02078}
- 17364 Pathogen[ P0C214] interacts with 38 human  
partners: {O14786;P49959;Q13625;Q9HBD4;Q9NNW7;Q6W2J9;P11831;Q96FH0;Q8TDY2;Q14686;Q8WV60;Q7Z6M4;Q02078;Q12968;Q9BQ70;P41134;O14641;Q9UKV0;Q8WW38;P42574;P19429;Q15796;Q9NSC2;Q8IX07;Q14934;O94992;Q86U86;O96004;O95644;P55210;Q8NB12;Q14061;P13807;Q9HB71;Q14188;Q9UQL6;Q9NYJ8;Q14790}
- 17365 Pathogen[ P03346] interacts with 48 human  
partners: {Q06945;P12004;Q02078;Q9HBD4;P13807;Q9H2W2;Q02535;Q8WW38;P11831;P48443;Q14188;Q9UJQ4;Q9NSC2;P78413;Q15796;Q96FH0;Q8TDY2;P42574;Q86U86;O60902;O95644;Q14934;O96004;Q9BQ70;Q9HB71;Q12968;Q14863;O14641;Q9NYJ8;P41134;Q8NB12;P46109;Q8IX07;Q13625;P49959;P35713;Q7Z6M4;Q9UKV0;Q14790;Q99593;O94992;P55210;P10916;Q9UQL6;Q6W2J9;O14786;Q14686;Q9NNW7}
- 17366 Pathogen[ Q85601] interacts with 36 human  
partners: {Q9UKV0;P11831;Q02078;P13807;P41134;Q7Z6M4;Q9NYJ8;Q9UQL6;Q8NB12;Q8WW38;Q96FH0;Q14790;Q8WV60;Q14188;Q8TDY2;P49959;O95644;O14786;O96004;Q14934;Q14686;Q9BQ70;Q12968;O14641;Q8IX07;Q13625;Q14061;O94992;Q9HBD4;P12004;Q86U86;Q9NSC2;Q9HB71;P55210;Q15796;Q6W2J9}
- 17367 Pathogen[ P14079] interacts with 43 human  
partners: {Q9UQL6;Q02078;Q06413;P19429;Q8TDY2;O14641;P13807;P46109;P16298;O95644;Q86U86;Q9UKV0;O96004;P10916;O60895;Q12968;Q13625;P48443;Q96FH0;Q14061;Q9H488;Q6W2J9;Q9HB71;Q8WV60;Q9NNW7;Q14790;O75425;P55210;Q14934;Q8NB12;Q9UJQ4;Q8IX07;O94992;Q7Z6M4;P41134;Q9BQ70;P12004;P02144;P28360;Q14188;Q14686;Q8WW38;Q9NSC2}
- 17368 Pathogen[ P03383] interacts with 26 human  
partners: {Q86U86;P11831;Q9HBD4;Q9UQL6;Q8WW38;Q96FH0;O95644;Q14686;P13807;Q8TDY2;Q13625;Q6W2J9;Q14934;O96004;Q9BQ70;Q9HB71;O14641;Q9NSC2;Q12968;O94992;Q14188;Q7Z6M4;Q9UKV0;Q15796;Q9NYJ8;Q02078}
- 17369 Pathogen[ P03410] interacts with 45 human  
partners: {O14786;Q9UKV0;P49959;P11831;Q9HB71;P02144;Q14061;Q6W2J9;P10916;O96004;O60895;Q12968;P19429;Q86U86;Q8WV60;Q14686;Q8TDY2;P41134;Q14188;Q8WW38;Q9UQL6;O95644;Q8IX07;Q9NYJ8;P13807;Q96FH0;Q8NB12;Q02078;Q9BQ70;Q9NSC2;O75425;Q9H488;Q9HBD4;Q13625;Q15796;Q9UJQ4;P12004;O94992;P46109;Q14934;P55210;Q7Z6M4;O14641;Q16635;Q9NNW7}
- 17370 Pathogen[ P14075] interacts with 27 human  
partners: {Q9NSC2;Q9HBD4;P11831;Q14686;Q8TDY2;Q9UKV0;Q8WW38;Q15796;O96004;O94992;Q9BQ70;O14641;Q6W2J9;Q86U86;Q14934;Q96FH0;Q13625;Q02078;Q9UQL6;P13807;Q14061;Q14188;Q12968;Q9HB71;O95644;Q7Z6M4;Q9NYJ8}
- 17371 Pathogen[ P0C206] interacts with 44 human  
partners: {Q14188;Q9HB71;Q7Z6M4;Q8WV60;P49959;Q9UJQ4;Q02078;Q6W2J9;Q9NSC2;Q13625;Q9UKV0;Q8WW38;P19429;Q12968;Q86U86;Q15796;Q9NNW7;P13807;O14786;O96004;P41134;P78413;O94992;Q14686;Q96FH0;Q8TDY2;Q14790;Q9NYJ8;P42574;Q14934;P11831;Q8IX07;Q14863;Q8NB12;Q9HBD4;O95644;P55210;Q86YT6;Q14061;Q9BQ70;O75425;P48443;P12004;Q9UQL6}
- 17372 Pathogen[ P03363] interacts with 38 human  
partners: {Q9UJQ4;P13807;Q9HB71;O14786;O94992;Q14863;Q9NNW7;P78413;Q9NYJ8;Q9H2W2;Q13625;O60902;Q9UQL6;P46109;Q14686;Q96FH0;P11831;Q13480;Q8NB12;Q9UKV0;Q9HBD4;P41134;Q15796;O96004;Q86U86;Q8TDY2;Q12968;Q14188;O95644;Q14934;P55210;Q8WW38;Q6W2J9;O14641;P19429;Q9BQ70;P10916;Q02078}
- 17373 [Cluster 1580]GO:0007265+P biological\_process [name] Ras protein signal transduction [def] "A series of molecular signals within the cell that are mediated by a member of the Ras superfamily of proteins switching to a GTP-bound active state." [GOC
- 17374 Pathogen[ Q2Q067] interacts with 11 human  
partners: {P06400;Q92529;P38936;P20248;O14593;P31946;P42771;Q9NS23;O75791;P24941;Q15759}
- 17375 Pathogen[ P0C214] interacts with 13 human  
partners: {P20248;P62993;Q9NS23;Q92529;P38936;P24941;P42771;O14593;Q15759;O75791;P31946;Q99704;P06400}
- 17376 Pathogen[ P03346] interacts with 19 human  
partners: {Q13588;Q969H4;P06400;P24941;P62993;P42771;Q92766;P20248;P46109;Q99704;O14593;Q9UQ13;P31946;Q15759;P38936;Q13283;Q92529;Q9NS23;O75791}
- 17377 Pathogen[ Q85601] interacts with 12 human  
partners: {P31946;P62993;P06400;Q9NS23;P20248;Q92529;P42771;O14593;Q15759;P38936;P24941;O75791}
- 17378 Pathogen[ P14079] interacts with 15 human  
partners: {Q9NS23;Q99704;P46109;O75791;Q16644;P31946;P38936;Q15759;O14593;Q969H4;P20248;P62993;O43561;Q92529;P42771}
- 17379 Pathogen[ P03383] interacts with 8 human  
partners: {O75791;P31946;P06400;P24941;Q15759;O14593;P42771;P20248}
- 17380 Pathogen[ P03410] interacts with 15 human  
partners: {P42771;Q92529;O43561;Q9NS23;P06400;Q969H4;P38936;P24941;Q99704;P20248;O14593;P62993;P46109;P31946;O75791}
- 17381 Pathogen[ P14075] interacts with 8 human  
partners: {P24941;Q15759;O75791;P42771;P20248;P06400;O14593;P31946}
- 17382 Pathogen[ P0C206] interacts with 14 human  
partners: {P20248;P42771;O75791;P62993;P31946;O14593;P38936;Q99704;Q92529;Q9NS23;Q969H4;P24941;Q15759;P06400}

17383 Pathogen[ P03363] interacts with 17 human partners: {Q92766;Q99704;P20248;Q7Z569;Q13283;P31946;P46109;O14593;P24941;O75791;P06400;Q92529;Q969H4;Q13588;Q9NS23;Q9UQ13;P42771}

17384 [Cluster 1581]GO:1900131+P

17385 Pathogen[ Q2Q067] interacts with 1 human partners: {P40855}

17386 Pathogen[ P0C214] interacts with 1 human partners: {P40855}

17387 Pathogen[ P03346] interacts with 1 human partners: {P40855}

17388 Pathogen[ Q85601] interacts with 1 human partners: {P40855}

17389 Pathogen[ P14079] interacts with 1 human partners: {P40855}

17390 Pathogen[ P03383] interacts with 1 human partners: {P40855}

17391 Pathogen[ P03410] interacts with 1 human partners: {P40855}

17392 Pathogen[ P14075] interacts with 1 human partners: {P40855}

17393 Pathogen[ P0C206] interacts with 1 human partners: {P40855}

17394 Pathogen[ P03363] interacts with 1 human partners: {P40855}

17395 [Cluster 1582]GO:0010607+P biological\_process [name] negative regulation of cytoplasmic mRNA processing body assembly [def] "Any process that decreases the rate, frequency, or extent of the aggregation, arrangement and bonding together of proteins and RNA molecules to form a cytoplasmic mRNA processing body." [GOC

17396 Pathogen[ Q2Q067] interacts with 1 human partners: {C9JE40}

17397 Pathogen[ P0C214] interacts with 1 human partners: {C9JE40}

17398 Pathogen[ P03346] interacts with 1 human partners: {C9JE40}

17399 Pathogen[ Q85601] interacts with 1 human partners: {C9JE40}

17400 Pathogen[ P14079] interacts with 1 human partners: {C9JE40}

17401 Pathogen[ P03383] interacts with 1 human partners: {C9JE40}

17402 Pathogen[ P03410] interacts with 1 human partners: {C9JE40}

17403 Pathogen[ P14075] interacts with 1 human partners: {C9JE40}

17404 Pathogen[ P0C206] interacts with 1 human partners: {C9JE40}

17405 Pathogen[ P03363] interacts with 1 human partners: {C9JE40}

17406 [Cluster 1583]GO:0002437+P biological\_process [name] inflammatory response to antigenic stimulus [def] "An inflammatory response to an antigenic stimulus, which can be include any number of T cell or B cell epitopes." [GOC

17407 Pathogen[ Q2Q067] interacts with 1 human partners: {Q8ND90}

17408 Pathogen[ P0C214] interacts with 1 human partners: {Q8ND90}

17409 Pathogen[ P03346] interacts with 1 human partners: {Q8ND90}

17410 Pathogen[ Q85601] interacts with 1 human partners: {Q8ND90}

17411 Pathogen[ P14079] interacts with 1 human partners: {Q8ND90}

17412 Pathogen[ P03383] interacts with 1 human partners: {Q8ND90}

17413 Pathogen[ P03410] interacts with 1 human partners: {Q8ND90}

17414 Pathogen[ P14075] interacts with 1 human partners: {Q8ND90}

17415 Pathogen[ P0C206] interacts with 1 human partners: {Q8ND90}

17416 Pathogen[ P03363] interacts with 1 human partners: {Q8ND90}

17417 [Cluster 1584]GO:0000430+P biological\_process [name] regulation of transcription from RNA polymerase II promoter by glucose [def] "Any process involving glucose that modulates the frequency, rate or extent of transcription from an RNA polymerase II promoter." [GOC

17418 Pathogen[ Q2Q067] interacts with 2 human partners: {P22415;Q15853}

17419 Pathogen[ P0C214] interacts with 2 human partners: {Q15853;P22415}

17420 Pathogen[ P03346] interacts with 2 human partners: {Q15853;P22415}

17421 Pathogen[ Q85601] interacts with 2 human partners: {Q15853;P22415}

17422 Pathogen[ P14079] interacts with 2 human partners: {Q15853;P22415}

17423 Pathogen[ P03383] interacts with 2 human partners: {Q15853;P22415}

17424 Pathogen[ P03410] interacts with 2 human partners: {P22415;Q15853}

17425 Pathogen[ P14075] interacts with 2 human partners: {Q15853;P22415}

17426 Pathogen[ P0C206] interacts with 2 human partners: {Q15853;P22415}

17427 Pathogen[ P03363] interacts with 2 human partners: {Q15853;P22415}

17428 [Cluster 1585]GO:0044314+P biological\_process [name] protein K27-linked ubiquitination [def] "A protein ubiquitination process in which a polymer of ubiquitin, formed by linkages between lysine residues at position 27 of the ubiquitin monomers, is added to a protein." [PMID

17429 Pathogen[ Q2Q067] interacts with 3 human partners: {Q9Y2X8;Q9NPD8;Q9Y252}

17430 Pathogen[ P0C214] interacts with 4 human partners: {Q16763;Q9Y2X8;Q9Y252;Q9NPD8}

17431 Pathogen[ P03346] interacts with 3 human partners: {Q9Y2X8;Q9NPD8;Q9Y252}

17432 Pathogen[ Q85601] interacts with 4 human partners: {Q16763;Q9Y2X8;Q9NPD8;Q9Y252}

17433 Pathogen[ P14079] interacts with 2 human partners: {Q9NPD8;Q9Y2X8}

17434 Pathogen[ P03383] interacts with 3 human partners: {Q9Y2X8;Q9Y252;Q9NPD8}

17435 Pathogen[ P03410] interacts with 2 human partners: {Q9Y2X8;Q9NPD8}

17436 Pathogen[ P14075] interacts with 3 human partners: {Q9Y252;Q9Y2X8;Q9NPD8}

17437 Pathogen[ P0C206] interacts with 4 human partners: {Q16763;Q9Y2X8;Q9NPD8;Q9Y252}

17438 Pathogen[ P03363] interacts with 3 human partners: {Q9Y252;Q9NPD8;Q9Y2X8}

17439 [Cluster 1586]GO:1900107+P

17440 Pathogen[ Q2Q067] interacts with 1 human partners: {Q9NYF0}

17441 Pathogen[ P0C214] interacts with 1 human partners: {Q9NYF0}

17442 Pathogen[ P03346] interacts with 1 human partners: {Q9NYF0}

17443 Pathogen[ Q85601] interacts with 1 human partners: {Q9NYF0}

17444 Pathogen[ P14079] interacts with 1 human partners: {Q9NYF0}

17445 Pathogen[ P03383] interacts with 1 human partners: {Q9NYF0}

17446 Pathogen[ P03410] interacts with 1 human partners:{Q9NYF0}  
17447 Pathogen[ P14075] interacts with 1 human partners:{Q9NYF0}  
17448 Pathogen[ P0C206] interacts with 1 human partners:{Q9NYF0}  
17449 Pathogen[ P03363] interacts with 1 human partners:{Q9NYF0}  
17450 [Cluster 1587]GO:0035519+P biological\_process [name] protein K29-linked ubiquitination [def] "A protein ubiquitination process in which a polymer of ubiquitin, formed by linkages between lysine residues at position 29 of the ubiquitin monomers, is added to a protein. K29-linked ubiquitination targets the substrate protein for degradation." [PMID  
17451 Pathogen[ Q2Q067] interacts with 3 human partners:{Q96J02;Q9Y2X8;Q9NPD8}  
17452 Pathogen[ P0C214] interacts with 4 human partners:{Q96J02;Q16763;Q9Y2X8;Q9NPD8}  
17453 Pathogen[ P03346] interacts with 3 human partners:{Q96J02;Q9Y2X8;Q9NPD8}  
17454 Pathogen[ Q85601] interacts with 4 human partners:{Q96J02;Q16763;Q9Y2X8;Q9NPD8}  
17455 Pathogen[ P14079] interacts with 3 human partners:{Q9NPD8;Q96J02;Q9Y2X8}  
17456 Pathogen[ P03383] interacts with 2 human partners:{Q9Y2X8;Q9NPD8}  
17457 Pathogen[ P03410] interacts with 2 human partners:{Q9Y2X8;Q9NPD8}  
17458 Pathogen[ P14075] interacts with 2 human partners:{Q9Y2X8;Q9NPD8}  
17459 Pathogen[ P0C206] interacts with 4 human partners:{Q16763;Q9Y2X8;Q9NPD8;Q96J02}  
17460 Pathogen[ P03363] interacts with 2 human partners:{Q9NPD8;Q9Y2X8}  
17461 [Cluster 1588]GO:0000715+P biological\_process [name] nucleotide-excision repair, DNA damage recognition [def] "The identification of lesions in DNA, such as pyrimidine-dimers, intrastrand cross-links, and bulky adducts. The wide range of substrate specificity suggests the repair complex recognizes distortions in the DNA helix." [GOC  
17462 Pathogen[ Q2Q067] interacts with 2 human partners:{P54727;Q01831}  
17463 Pathogen[ P0C214] interacts with 2 human partners:{P54727;Q01831}  
17464 Pathogen[ P03346] interacts with 2 human partners:{Q01831;P54727}  
17465 Pathogen[ Q85601] interacts with 2 human partners:{Q01831;P54727}  
17466 Pathogen[ P14079] interacts with 2 human partners:{Q01831;P54727}  
17467 Pathogen[ P03383] interacts with 2 human partners:{Q01831;P54727}  
17468 Pathogen[ P03410] interacts with 2 human partners:{Q01831;P54727}  
17469 Pathogen[ P14075] interacts with 2 human partners:{Q01831;P54727}  
17470 Pathogen[ P0C206] interacts with 2 human partners:{Q01831;P54727}  
17471 Pathogen[ P03363] interacts with 2 human partners:{P54727;Q01831}  
17472 [Cluster 1589]GO:0010035+P biological\_process [name] response to inorganic substance [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an inorganic substance stimulus." [GOC  
17473 Pathogen[ Q2Q067] interacts with 4 human partners:{Q9H2P0;Q04206;P49356;P15259}  
17474 Pathogen[ P0C214] interacts with 6 human partners:{P15259;Q04206;P49356;P36551;Q05639;Q9H2P0}  
17475 Pathogen[ P03346] interacts with 4 human partners:{Q9H2P0;Q04206;P49356;P15259}  
17476 Pathogen[ Q85601] interacts with 5 human partners:{P15259;Q04206;Q9H2P0;P49356;Q05639}  
17477 Pathogen[ P14079] interacts with 5 human partners:{P15259;Q16873;Q9H2P0;P49356;P36551}  
17478 Pathogen[ P03383] interacts with 2 human partners:{Q04206;P15259}  
17479 Pathogen[ P03410] interacts with 5 human partners:{Q04206;P49356;P36551;Q16873;P15259}  
17480 Pathogen[ P14075] interacts with 2 human partners:{Q04206;P15259}  
17481 Pathogen[ P0C206] interacts with 5 human partners:{P36551;Q04206;Q9H2P0;P49356;P15259}  
17482 Pathogen[ P03363] interacts with 3 human partners:{Q04206;Q9H2P0;P15259}  
17483 [Cluster 1590]GO:0043631+P biological\_process [name] RNA polyadenylation [def] "The enzymatic addition of a sequence of adenylyl residues at the 3' end of an RNA molecule." [GOC  
17484 Pathogen[ Q2Q067] interacts with 2 human partners:{Q8TCS8;P51003}  
17485 Pathogen[ P0C214] interacts with 2 human partners:{P51003;Q8TCS8}  
17486 Pathogen[ P03346] interacts with 2 human partners:{P51003;Q8TCS8}  
17487 Pathogen[ Q85601] interacts with 2 human partners:{Q8TCS8;P51003}  
17488 Pathogen[ P14079] interacts with 2 human partners:{P51003;Q8TCS8}  
17489 Pathogen[ P03383] interacts with 2 human partners:{P51003;Q8TCS8}  
17490 Pathogen[ P03410] interacts with 2 human partners:{Q8TCS8;P51003}  
17491 Pathogen[ P14075] interacts with 2 human partners:{P51003;Q8TCS8}  
17492 Pathogen[ P0C206] interacts with 2 human partners:{Q8TCS8;P51003}  
17493 Pathogen[ P03363] interacts with 1 human partners:{P51003}  
17494 [Cluster 1591]GO:0007154+P biological\_process [name] cell communication [def] "Any process that mediates interactions between a cell and its surroundings. Encompasses interactions such as signaling or attachment between one cell and another cell, between a cell and an extracellular matrix, or between a cell and any other aspect of its environment." [GOC  
17495 Pathogen[ Q2Q067] interacts with 3 human partners:{Q7Z614;Q96L92;O43482}  
17496 Pathogen[ P0C214] interacts with 3 human partners:{Q7Z614;O43482;Q96L92}  
17497 Pathogen[ P03346] interacts with 16 human partners:{Q13596;Q15036;Q92543;O75335;Q9UMY4;O43482;Q7Z614;Q9NRS6;O60493;Q96L92;Q9UNH7;Q9Y5X2;O95219;O60749;Q5TCZ1;Q8WV41}  
17498 Pathogen[ Q85601] interacts with 6 human

17499 partners:{Q13596;Q15036;Q7Z614;Q96L92;Q9UNH7;O43482}  
 Pathogen[ P14079] interacts with 20 human  
 partners:{Q9UNH7;Q15036;Q8WV41;O43482;Q9C0B9;O60493;Q8N9S9;Q9NRS6;Q96L92;Q9H3E2;Q8WY  
 Q9;Q9Y5X2;O60749;O75335;Q13596;Q7Z614;Q92543;Q9UMY4;Q5TCZ1;Q9NSN8}

17500 Pathogen[ P03383] interacts with 3 human partners:{Q7Z614;Q96L92;O43482}

17501 Pathogen[ P03410] interacts with 20 human  
 partners:{Q8WV41;O75335;Q7Z614;Q96L92;Q13596;Q9H3E2;O60749;Q9UMY4;Q95219;Q9UNH7;Q9C0  
 B9;O43482;Q15036;Q8N9S9;Q9NRS6;Q8WYQ9;Q5TCZ1;Q92543;O60493;Q9Y5X2}

17502 Pathogen[ P14075] interacts with 3 human partners:{Q7Z614;O43482;Q96L92}

17503 Pathogen[ P0C206] interacts with 15 human  
 partners:{Q96L92;Q8N9S9;Q9UNH7;Q9NRS6;Q9C0B9;O60493;Q13596;Q5TCZ1;Q15036;Q8WV41;O607  
 49;Q9H3E2;O43482;Q7Z614;O75335}

17504 Pathogen[ P03363] interacts with 15 human  
 partners:{O75335;Q9UNH7;Q92543;Q96L92;Q95219;Q9UMY4;O60493;O60749;Q8WV41;Q5TCZ1;Q5VW  
 J9;Q7Z614;Q13596;O43482;Q9NSN8}

17505 [Cluster 1592]GO:0003151+P biological\_process [name] outflow tract morphogenesis  
 [def] "The process in which the anatomical structures of the outflow tract are generated  
 and organized. The outflow tract is the portion of the heart through which blood flows  
 into the arteries." [GOC

17506 Pathogen[ Q2Q067] interacts with 7 human  
 partners:{Q99502;Q9NQ87;P35548;O14641;Q06330;Q8IX07;P15336}

17507 Pathogen[ P0C214] interacts with 8 human  
 partners:{P15336;Q06330;O14641;Q8IX07;P05412;Q9NQ87;P35548;Q99502}

17508 Pathogen[ P03346] interacts with 11 human  
 partners:{Q06330;P05412;P15336;P35548;Q99502;O14641;Q9NQ87;Q15475;Q8IX07;P35713;O755  
 93}

17509 Pathogen[ Q85601] interacts with 8 human  
 partners:{Q06330;O14641;Q99502;P35548;P05412;Q9NQ87;Q8IX07;P15336}

17510 Pathogen[ P14079] interacts with 8 human  
 partners:{Q06413;Q99502;O14641;Q06330;P15336;Q8IX07;Q9NQ87;P05412}

17511 Pathogen[ P03383] interacts with 6 human  
 partners:{Q06330;Q9NQ87;P35548;O14641;P15336;P05412}

17512 Pathogen[ P03410] interacts with 8 human  
 partners:{Q06330;Q99502;Q9NQ87;P35548;Q8IX07;P05412;P15336;O14641}

17513 Pathogen[ P14075] interacts with 7 human  
 partners:{P05412;P35548;P15336;Q9NQ87;O14641;Q06330;Q99502}

17514 Pathogen[ P0C206] interacts with 7 human  
 partners:{Q9NQ87;Q06330;P05412;P15336;P35548;Q99502;Q8IX07}

17515 Pathogen[ P03363] interacts with 6 human  
 partners:{Q06330;Q9NQ87;P35548;P15336;P05412;O14641}

17516 [Cluster 1593]GO:0018401+P biological\_process [name] peptidyl-proline hydroxylation to  
 4-hydroxy-L-proline [def] "The modification of peptidyl-proline to form  
 4-hydroxy-L-proline\_ catalyzed by procollagen-proline,2-oxoglutarate-4-dioxygenase."  
 [RESID

17517 Pathogen[ Q2Q067] interacts with 3 human partners:{Q96KS0;Q9H6Z9;Q9GZT9}

17518 Pathogen[ P0C214] interacts with 3 human partners:{Q96KS0;Q9H6Z9;Q9GZT9}

17519 Pathogen[ P03346] interacts with 3 human partners:{Q9GZT9;Q96KS0;Q9H6Z9}

17520 Pathogen[ Q85601] interacts with 3 human partners:{Q9H6Z9;Q9GZT9;Q96KS0}

17521 Pathogen[ P14079] interacts with 3 human partners:{Q9GZT9;Q9H6Z9;Q96KS0}

17522 Pathogen[ P03383] interacts with 2 human partners:{Q96KS0;Q9H6Z9}

17523 Pathogen[ P03410] interacts with 3 human partners:{Q96KS0;Q9H6Z9;Q9GZT9}

17524 Pathogen[ P14075] interacts with 3 human partners:{Q96KS0;Q9GZT9;Q9H6Z9}

17525 Pathogen[ P0C206] interacts with 3 human partners:{Q96KS0;Q9GZT9;Q9H6Z9}

17526 Pathogen[ P03363] interacts with 1 human partners:{Q9H6Z9}

17527 [Cluster 1594]GO:0017145+P biological\_process [name] stem cell division [def] "The  
 self-renewing division of a stem cell. A stem cell is an undifferentiated cell, in the  
 embryo or adult, that can undergo unlimited division and give rise to one or several  
 different cell types." [GOC

17528 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9GZV5;Q13618}

17529 Pathogen[ P0C214] interacts with 2 human partners:{Q9GZV5;Q13618}

17530 Pathogen[ P03346] interacts with 2 human partners:{Q9GZV5;Q13618}

17531 Pathogen[ Q85601] interacts with 2 human partners:{Q9GZV5;Q13618}

17532 Pathogen[ P14079] interacts with 2 human partners:{Q9GZV5;Q13618}

17533 Pathogen[ P03383] interacts with 2 human partners:{Q13618;Q9GZV5}

17534 Pathogen[ P03410] interacts with 2 human partners:{Q9GZV5;Q13618}

17535 Pathogen[ P14075] interacts with 2 human partners:{Q9GZV5;Q13618}

17536 Pathogen[ P0C206] interacts with 2 human partners:{Q9GZV5;Q13618}

17537 Pathogen[ P03363] interacts with 2 human partners:{Q13618;Q9GZV5}

17538 [Cluster 1595]GO:0006999+P biological\_process [name] nuclear pore organization  
 [def] "A process that is carried out at the cellular level which results in the  
 assembly, arrangement of constituent parts, or disassembly of the nuclear pore." [GOC

17539 Pathogen[ Q2Q067] interacts with 3 human partners:{Q96EE3;P52948;Q8WUM0}

17540 Pathogen[ P0C214] interacts with 3 human partners:{Q96EE3;Q8WUM0;P52948}

17541 Pathogen[ P03346] interacts with 3 human partners:{Q8WUM0;Q96EE3;P52948}

17542 Pathogen[ Q85601] interacts with 3 human partners:{Q96EE3;Q8WUM0;P52948}

17543 Pathogen[ P14079] interacts with 3 human partners:{Q8WUM0;Q96EE3;P52948}

17544 Pathogen[ P03383] interacts with 3 human partners:{Q96EE3;Q8WUM0;P52948}

17545 Pathogen[ P03410] interacts with 3 human partners:{P52948;Q96EE3;Q8WUM0}

17546 Pathogen[ P14075] interacts with 3 human partners:{Q96EE3;Q8WUM0;P52948}

17547 Pathogen[ P0C206] interacts with 2 human partners:{Q96EE3;Q8WUM0}

17548 Pathogen[ P03363] interacts with 2 human partners:{Q8WUM0;P52948}

17549 [Cluster 1596]GO:0071347+P biological\_process [name] cellular response to interleukin-1 [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an interleukin-1 stimulus." [GOC

17550 Pathogen[ Q2Q067] interacts with 6 human partners:{Q8WUQ7;Q04206;P38159;P10914;Q15327;P19838}

17551 Pathogen[ P0C214] interacts with 5 human partners:{Q15327;P38159;P19838;Q04206;P10914}

17552 Pathogen[ P03346] interacts with 7 human partners:{Q9Y5W3;Q15327;Q04206;P10914;P19838;P38159;Q8WUQ7}

17553 Pathogen[ Q85601] interacts with 5 human partners:{P10914;Q04206;Q15327;P38159;P19838}

17554 Pathogen[ P14079] interacts with 5 human partners:{Q15327;Q8WUQ7;Q9Y5W3;P10914;P38159}

17555 Pathogen[ P03383] interacts with 6 human partners:{P10914;P38159;Q8WUQ7;Q15327;Q04206;P19838}

17556 Pathogen[ P03410] interacts with 6 human partners:{Q8WUQ7;Q04206;P19838;Q15327;P10914;P38159}

17557 Pathogen[ P14075] interacts with 6 human partners:{Q04206;P38159;Q15327;P19838;P10914;Q8WUQ7}

17558 Pathogen[ P0C206] interacts with 6 human partners:{P10914;Q15327;Q8WUQ7;P19838;P38159;Q04206}

17559 Pathogen[ P03363] interacts with 6 human partners:{Q04206;Q15327;Q8WUQ7;P38159;P10914;P19838}

17560 [Cluster 1597]GO:0032727+P biological\_process [name] positive regulation of interferon-alpha production [def] "Any process that activates or increases the frequency, rate, or extent of interferon-alpha production." [GOC

17561 Pathogen[ Q2Q067] interacts with 4 human partners:{Q92985;Q7Z2W4;Q14653;Q9BYX4}

17562 Pathogen[ P0C214] interacts with 5 human partners:{Q9BYX4;Q7Z2W4;Q92985;P10809;Q14653}

17563 Pathogen[ P03346] interacts with 4 human partners:{Q14653;Q9BYX4;Q92985;Q7Z2W4}

17564 Pathogen[ Q85601] interacts with 4 human partners:{Q7Z2W4;Q14653;Q9BYX4;Q92985}

17565 Pathogen[ P14079] interacts with 5 human partners:{Q9BYX4;Q14653;Q7Z2W4;Q92985;Q7Z434}

17566 Pathogen[ P03383] interacts with 3 human partners:{Q14653;Q92985;Q7Z2W4}

17567 Pathogen[ P03410] interacts with 5 human partners:{Q14653;Q9BYX4;Q7Z434;Q7Z2W4;Q92985}

17568 Pathogen[ P14075] interacts with 3 human partners:{Q14653;Q7Z2W4;Q92985}

17569 Pathogen[ P0C206] interacts with 4 human partners:{Q92985;Q9BYX4;Q7Z2W4;Q14653}

17570 Pathogen[ P03363] interacts with 4 human partners:{Q14653;Q92985;Q7Z2W4;Q9BYX4}

17571 [Cluster 1598]GO:0010830+P biological\_process [name] regulation of myotube differentiation [def] "Any process that modulates the frequency, rate or extent of myotube differentiation. Myotube differentiation is the process in which a relatively unspecialized cell acquires specialized features of a myotube cell. Myotubes are multinucleated cells that are formed when proliferating myoblasts exit the cell cycle, differentiate and fuse." [GOC

17572 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9UQL6;Q8NEZ5}

17573 Pathogen[ P0C214] interacts with 1 human partners:{Q9UQL6}

17574 Pathogen[ P03346] interacts with 2 human partners:{Q8NEZ5;Q9UQL6}

17575 Pathogen[ Q85601] interacts with 2 human partners:{Q9UQL6;Q8NEZ5}

17576 Pathogen[ P14079] interacts with 2 human partners:{Q9UQL6;Q8NEZ5}

17577 Pathogen[ P03383] interacts with 2 human partners:{Q9UQL6;Q8NEZ5}

17578 Pathogen[ P03410] interacts with 2 human partners:{Q9UQL6;Q8NEZ5}

17579 Pathogen[ P14075] interacts with 2 human partners:{Q8NEZ5;Q9UQL6}

17580 Pathogen[ P0C206] interacts with 2 human partners:{Q8NEZ5;Q9UQL6}

17581 Pathogen[ P03363] interacts with 3 human partners:{Q8NEZ5;Q9UQL6;Q9BX46}

17582 [Cluster 1599]GO:0042593+P biological\_process [name] glucose homeostasis [def] "Any process involved in the maintenance of an internal steady state of glucose within an organism or cell." [GOC

17583 Pathogen[ Q2Q067] interacts with 12 human partners:{Q13562;P31749;P40763;Q8HWS3;Q9BZE9;O43524;P20823;P22415;Q9NP71;P14672;Q53ET0;P62753}

17584 Pathogen[ P0C214] interacts with 12 human partners:{P35558;Q92934;P05121;Q9BZE9;Q53ET0;P62753;Q9NP71;P40763;P22415;P14672;Q8HWS3;P31749}

17585 Pathogen[ P03346] interacts with 15 human partners:{Q06945;Q53ET0;Q7RTS1;P20823;Q9BZE9;Q9NP71;Q8HWS3;P31749;Q92481;Q13562;P14672;P40763;O43524;P62753;P22415}

17586 Pathogen[ Q85601] interacts with 12 human partners:{Q53ET0;P31749;P40763;P62753;Q9NP71;Q9BZE9;Q13562;P22415;P05121;P14672;P20823;Q8HWS3}

17587 Pathogen[ P14079] interacts with 10 human partners:{P62753;P14672;Q9BZE9;Q8HWS3;Q92934;B7ZBB8;Q7RTS1;Q8TCU4;Q9NP71;P22415}

17588 Pathogen[ P03383] interacts with 8 human partners:{Q8HWS3;P31749;P62753;Q9BZE9;Q9NP71;Q53ET0;P14672;P22415}

17589 Pathogen[ P03410] interacts with 14 human partners:{B7ZBB8;Q9BZE9;P05121;P31749;Q7RTS1;Q8TCU4;Q92934;Q9NRY6;Q53ET0;Q9NP71;P22415;P40763;P62753;Q8HWS3}

17590 Pathogen[ P14075] interacts with 8 human partners:{Q53ET0;Q9NP71;P31749;P62753;P22415;P14672;Q8HWS3;Q9BZE9}

17591 Pathogen[ P0C206] interacts with 15 human partners:{Q8HWS3;P31749;Q9NP71;Q8TCU4;Q9BZE9;Q92934;P22415;P20823;B7ZBB8;P40763;Q13562;Q53ET0;P05121;P14672;P62753}

17592 Pathogen[ P03363] interacts with 11 human partners:{Q7RTS1;Q53ET0;P62753;O43524;B7ZBB8;P31749;P22415;Q9BZE9;P14672;Q9NP71;Q8HWS3}

17593 [Cluster 1600]GO:0051258+P biological\_process [name] protein polymerization [def] "The process of creating protein polymers, compounds composed of a large number of component monomers\_ polymeric proteins may be made up of different or identical monomers. Polymerization occurs by the addition of extra monomers to an existing poly- or oligomeric protein." [GOC]

17594 Pathogen[ Q2Q067] interacts with 2 human partners:{P23258;Q9NPA3}

17595 Pathogen[ P0C214] interacts with 3 human partners:{Q9NPA3;P23258;Q9BUK6}

17596 Pathogen[ P03346] interacts with 3 human partners:{P23258;Q9BUK6;Q9NPA3}

17597 Pathogen[ Q85601] interacts with 3 human partners:{P23258;Q9NPA3;Q9BUK6}

17598 Pathogen[ P14079] interacts with 4 human partners:{Q9NPA3;Q9BUK6;P68363;P23258}

17599 Pathogen[ P03383] interacts with 1 human partners:{Q9NPA3}

17600 Pathogen[ P03410] interacts with 5 human partners:{Q9BUK6;Q9BVA1;P23258;P68363;Q9NPA3}

17601 Pathogen[ P14075] interacts with 1 human partners:{Q9NPA3}

17602 Pathogen[ P0C206] interacts with 3 human partners:{Q9NPA3;Q9BUK6;P23258}

17603 Pathogen[ P03363] interacts with 4 human partners:{P68363;Q13748;Q9NPA3;P23258}

17604 [Cluster 1601]GO:0033077+P biological\_process [name] T cell differentiation in thymus [def] "The process in which a precursor cell type acquires the specialized features of a T cell via a differentiation pathway dependent upon transit through the thymus." [GOC]

17605 Pathogen[ Q2Q067] interacts with 8 human partners:{P55895;Q8N5F7;Q13426;Q53G26;P15923;Q96EY1;Q07352;Q00534}

17606 Pathogen[ P0C214] interacts with 8 human partners:{Q8N5F7;Q07352;Q00534;P55895;Q13426;P15923;Q53G26;Q96EY1}

17607 Pathogen[ P03346] interacts with 8 human partners:{Q13426;P55895;P15923;Q8N5F7;Q53G26;Q07352;Q00534;Q96EY1}

17608 Pathogen[ Q85601] interacts with 8 human partners:{Q53G26;Q8N5F7;Q07352;Q13426;P15923;Q00534;P55895;Q96EY1}

17609 Pathogen[ P14079] interacts with 6 human partners:{P15923;Q13426;Q96EY1;Q07352;P49917;Q8N5F7}

17610 Pathogen[ P03383] interacts with 8 human partners:{Q8N5F7;P15923;Q07352;Q00534;Q13426;P55895;Q96EY1;Q53G26}

17611 Pathogen[ P03410] interacts with 7 human partners:{Q53G26;Q00534;P55895;P15923;Q13426;Q96EY1;Q07352}

17612 Pathogen[ P14075] interacts with 8 human partners:{Q8N5F7;Q00534;Q53G26;P15923;Q07352;Q13426;P55895;Q96EY1}

17613 Pathogen[ P0C206] interacts with 9 human partners:{Q53G26;P49917;Q13426;P15923;P55895;Q8N5F7;Q07352;Q96EY1;Q00534}

17614 Pathogen[ P03363] interacts with 8 human partners:{Q53G26;P15923;Q00534;Q07352;Q13426;Q8N5F7;P55895;Q96EY1}

17615 [Cluster 1602]GO:0090222+P biological\_process [name] centrosome-templated microtubule nucleation [def] "The 'de novo' formation of a microtubule, in which tubulin heterodimers form metastable oligomeric aggregates from the centrosome." [GOC]

17616 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8N4C6}

17617 Pathogen[ P0C214] interacts with 1 human partners:{Q8N4C6}

17618 Pathogen[ P03346] interacts with 1 human partners:{Q8N4C6}

17619 Pathogen[ Q85601] interacts with 1 human partners:{Q8N4C6}

17620 Pathogen[ P14079] interacts with 1 human partners:{Q8N4C6}

17621 Pathogen[ P03383] interacts with 1 human partners:{Q8N4C6}

17622 Pathogen[ P03410] interacts with 1 human partners:{Q8N4C6}

17623 Pathogen[ P14075] interacts with 1 human partners:{Q8N4C6}

17624 Pathogen[ P0C206] interacts with 1 human partners:{Q8N4C6}

17625 Pathogen[ P03363] interacts with 1 human partners:{Q8N4C6}

17626 [Cluster 1603]GO:0051103+P biological\_process [name] DNA ligation involved in DNA repair [def] "The re-formation of a broken phosphodiester bond in the DNA backbone, carried out by DNA ligase, that contributes to DNA repair." [GOC]

17627 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13426}

17628 Pathogen[ P0C214] interacts with 1 human partners:{Q13426}

17629 Pathogen[ P03346] interacts with 1 human partners:{Q13426}

17630 Pathogen[ Q85601] interacts with 1 human partners:{Q13426}

17631 Pathogen[ P14079] interacts with 2 human partners:{Q13426;P49917}

17632 Pathogen[ P03383] interacts with 1 human partners:{Q13426}

17633 Pathogen[ P03410] interacts with 1 human partners:{Q13426}  
17634 Pathogen[ P14075] interacts with 1 human partners:{Q13426}  
17635 Pathogen[ P0C206] interacts with 3 human partners:{P49917;Q13426;P49916}  
17636 Pathogen[ P03363] interacts with 1 human partners:{Q13426}  
17637 [Cluster 1604]GO:0042307+P biological\_process [name] positive regulation of protein import into nucleus [def] "Any process that activates or increases the frequency, rate or extent of movement of proteins from the cytoplasm into the nucleus." [GOC  
17638 Pathogen[ Q2Q067] interacts with 2 human partners:{O43745;Q9BZF9}  
17639 Pathogen[ P0C214] interacts with 2 human partners:{O43745;Q9BZF9}  
17640 Pathogen[ P03346] interacts with 3 human partners:{Q9BZF9;Q9H8V3;O43745}  
17641 Pathogen[ Q85601] interacts with 2 human partners:{Q9BZF9;O43745}  
17642 Pathogen[ P14079] interacts with 3 human partners:{O43745;Q9H8V3;Q9BZF9}  
17643 Pathogen[ P03383] interacts with 2 human partners:{Q9BZF9;O43745}  
17644 Pathogen[ P03410] interacts with 3 human partners:{Q9BZF9;O43745;Q9H8V3}  
17645 Pathogen[ P14075] interacts with 2 human partners:{O43745;Q9BZF9}  
17646 Pathogen[ P0C206] interacts with 3 human partners:{Q9H8V3;Q9BZF9;O43745}  
17647 Pathogen[ P03363] interacts with 2 human partners:{Q9BZF9;O43745}  
17648 [Cluster 1605]GO:0048715+P biological\_process [name] negative regulation of oligodendrocyte differentiation [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of oligodendrocyte differentiation." [GOC  
17649 Pathogen[ Q2Q067] interacts with 2 human partners:{Q07687;P47928}  
17650 Pathogen[ P0C214] interacts with 2 human partners:{Q07687;P47928}  
17651 Pathogen[ P03346] interacts with 2 human partners:{P56177;P47928}  
17652 Pathogen[ Q85601] interacts with 2 human partners:{Q07687;P47928}  
17653 Pathogen[ P14079] interacts with 2 human partners:{Q07687;P47928}  
17654 Pathogen[ P03383] interacts with 2 human partners:{Q07687;P47928}  
17655 Pathogen[ P03410] interacts with 2 human partners:{Q07687;P47928}  
17656 Pathogen[ P14075] interacts with 2 human partners:{P47928;Q07687}  
17657 Pathogen[ P0C206] interacts with 3 human partners:{Q07687;P47928;P56177}  
17658 Pathogen[ P03363] interacts with 3 human partners:{P56177;P47928;Q07687}  
17659 [Cluster 1606]GO:0021695+P biological\_process [name] cerebellar cortex development [def] "The process whose specific outcome is the progression of the cerebellar cortex over time, from its formation to the mature structure. The cerebellar cortex is a thin mantle of gray matter that covers the surface of each cerebral hemisphere. It has a characteristic morphology with convolutions (gyri) and crevices (sulci) that have specific functions. Six layers of nerve cells and the nerve pathways that connect them comprise the cerebellar cortex. Together, these regions are responsible for the processes of conscious thought, perception, emotion and memory as well as advanced motor function." [GO\_REF  
17660 Pathogen[ Q2Q067] interacts with 1 human partners:{Q15910}  
17661 Pathogen[ P0C214] interacts with 1 human partners:{Q15910}  
17662 Pathogen[ P03346] interacts with 1 human partners:{Q15910}  
17663 Pathogen[ Q85601] interacts with 1 human partners:{Q15910}  
17664 Pathogen[ P14079] interacts with 1 human partners:{Q15910}  
17665 Pathogen[ P03383] interacts with 1 human partners:{Q15910}  
17666 Pathogen[ P03410] interacts with 1 human partners:{Q15910}  
17667 Pathogen[ P14075] interacts with 1 human partners:{Q15910}  
17668 Pathogen[ P0C206] interacts with 1 human partners:{Q15910}  
17669 Pathogen[ P03363] interacts with 1 human partners:{Q15910}  
17670 [Cluster 1607]GO:0016358+P biological\_process [name] dendrite development [def] "The process whose specific outcome is the progression of the dendrite over time, from its formation to the mature structure. A dendrite is a freely branching protoplasmic process of a nerve cell." [GOC  
17671 Pathogen[ Q2Q067] interacts with 5 human partners:{O14786;O75177;Q92769;P63000;Q9Y296}  
17672 Pathogen[ P0C214] interacts with 6 human partners:{P63000;O14786;Q9UM54;Q9Y296;Q92769;O75177}  
17673 Pathogen[ P03346] interacts with 7 human partners:{O43815;Q9Y296;Q92769;P11137;P63000;O14786;O75177}  
17674 Pathogen[ Q85601] interacts with 7 human partners:{P63000;O43815;Q9Y296;O14786;Q92769;Q9UM54;O75177}  
17675 Pathogen[ P14079] interacts with 6 human partners:{Q9Y296;O43815;Q9UM54;Q92769;P11137;O75177}  
17676 Pathogen[ P03383] interacts with 4 human partners:{P63000;Q9Y296;O75177;Q92769}  
17677 Pathogen[ P03410] interacts with 8 human partners:{O14786;P11137;P63000;O75177;Q9UM54;Q92769;O43815;Q9Y296}  
17678 Pathogen[ P14075] interacts with 4 human partners:{Q92769;P63000;Q9Y296;O75177}  
17679 Pathogen[ P0C206] interacts with 8 human partners:{Q92769;Q9UM54;Q9Y296;O43815;O75177;O14786;P11137;P63000}  
17680 Pathogen[ P03363] interacts with 6 human partners:{P11137;O14786;P63000;O43815;Q9Y296;O75177}  
17681 [Cluster 1608]GO:0010506+P biological\_process [name] regulation of autophagy [def] "Any process that modulates the frequency, rate or extent of autophagy. Autophagy is the process in which cells digest parts of their own cytoplasm." [GOC  
17682 Pathogen[ Q2Q067] interacts with 3 human partners:{Q16666;O60260;Q8TDY2}  
17683 Pathogen[ P0C214] interacts with 3 human partners:{Q16666;Q8TDY2;O60260}

17684 Pathogen[ P03346] interacts with 4 human partners:{Q16666;Q8TDY2;Q14694;O60260}

17685 Pathogen[ Q85601] interacts with 3 human partners:{Q16666;Q8TDY2;O60260}

17686 Pathogen[ P14079] interacts with 6 human partners:{O60260;Q8TDY2;Q96GC9;O94964;Q16666;P10636}

17687 Pathogen[ P03383] interacts with 3 human partners:{Q8TDY2;O60260;Q16666}

17688 Pathogen[ P03410] interacts with 6 human partners:{Q16666;Q96GC9;O94964;Q8TDY2;O60260;P10636}

17689 Pathogen[ P14075] interacts with 3 human partners:{Q8TDY2;Q16666;O60260}

17690 Pathogen[ P0C206] interacts with 5 human partners:{O94964;Q16666;P10636;O60260;Q8TDY2}

17691 Pathogen[ P03363] interacts with 2 human partners:{Q16666;Q8TDY2}

17692 [Cluster 1609]GO:0031018+P biological\_process [name] endocrine pancreas development [def] "The process whose specific outcome is the progression of the endocrine pancreas over time, from its formation to the mature structure. The endocrine pancreas is made up of islet cells that produce insulin, glucagon and somatostatin." [GOC

17693 Pathogen[ Q2Q067] interacts with 9 human partners:{Q13562;P31749;P35680;P48380;Q8HWS3;O95948;Q9Y4Z2;P20823;O60422}

17694 Pathogen[ P0C214] interacts with 6 human partners:{P11168;P10909;P48380;O95948;Q8HWS3;P31749}

17695 Pathogen[ P03346] interacts with 18 human partners:{Q06945;Q9Y4Z2;P50219;Q7RTS3;P48380;P20823;O43316;Q9UBC0;P78426;Q8HWS3;O95096;P31749;O95948;P35680;Q12778;O60422;Q01101;Q13562}

17696 Pathogen[ Q85601] interacts with 11 human partners:{P11168;O43316;P31749;Q9Y4Z2;Q13562;O95948;P35680;O60422;P48380;P20823;Q8HWS3}

17697 Pathogen[ P14079] interacts with 6 human partners:{P04083;P35680;O95948;P48380;P10909;Q8HWS3}

17698 Pathogen[ P03383] interacts with 4 human partners:{Q8HWS3;P31749;P48380;P11168}

17699 Pathogen[ P03410] interacts with 8 human partners:{P11168;P31749;O95948;P48380;P35680;O60422;Q8HWS3;P10909}

17700 Pathogen[ P14075] interacts with 4 human partners:{P48380;P31749;P11168;Q8HWS3}

17701 Pathogen[ P0C206] interacts with 13 human partners:{Q8HWS3;P31749;Q9Y4Z2;Q9UBC0;P48380;P11168;P35680;P20823;P10909;Q13562;O60422;O43316;O95948}

17702 Pathogen[ P03363] interacts with 11 human partners:{Q9UBC0;Q9Y4Z2;O95948;O60422;Q7RTS3;O43316;P31749;Q9C056;P48380;Q8HWS3;P50219}

17703 [Cluster 1610]GO:0000379+P biological\_process [name] tRNA-type intron splice site recognition and cleavage [def] "RNA processing that begins when the tertiary structure of a tRNA type intron is recognized, and ends when the endonucleolytic cleavage of the RNA at both the 5' and 3' splice sites occurs." [GOC

17704 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BSV6}

17705 Pathogen[ P0C214] interacts with 1 human partners:{Q9BSV6}

17706 Pathogen[ P03346] interacts with 1 human partners:{Q9BSV6}

17707 Pathogen[ Q85601] interacts with 1 human partners:{Q9BSV6}

17708 Pathogen[ P14079] interacts with 1 human partners:{Q9BSV6}

17709 Pathogen[ P03383] interacts with 1 human partners:{Q9BSV6}

17710 Pathogen[ P03410] interacts with 1 human partners:{Q9BSV6}

17711 Pathogen[ P14075] interacts with 1 human partners:{Q9BSV6}

17712 Pathogen[ P0C206] interacts with 1 human partners:{Q9BSV6}

17713 Pathogen[ P03363] interacts with 1 human partners:{Q9BSV6}

17714 [Cluster 1611]GO:0007266+P biological\_process [name] Rho protein signal transduction [def] "A series of molecular signals within the cell that are mediated by a member of the Rho family of proteins switching to a GTP-bound active state." [GOC

17715 Pathogen[ Q2Q067] interacts with 5 human partners:{P41182;O14907;P23528;Q00587;P61586}

17716 Pathogen[ P0C214] interacts with 5 human partners:{P61586;O14907;P52565;P41182;P98171}

17717 Pathogen[ P03346] interacts with 8 human partners:{Q969H4;P98171;Q00587;P52565;O14907;P41182;P23528;P61586}

17718 Pathogen[ Q85601] interacts with 5 human partners:{P52565;O14907;P61586;P23528;P41182}

17719 Pathogen[ P14079] interacts with 12 human partners:{P52565;Q8IZ21;P98171;O14907;Q6NZY7;P41182;P23528;P61586;Q969H4;Q00587;Q9BZX4;Q9H3Q1}

17720 Pathogen[ P03383] interacts with 4 human partners:{P61586;O14907;P23528;Q00587}

17721 Pathogen[ P03410] interacts with 12 human partners:{Q8IZ21;P98171;Q9BZX4;Q00587;Q9H3Q1;Q6NZY7;Q969H4;P61586;O14907;P41182;P23528;P52565}

17722 Pathogen[ P14075] interacts with 4 human partners:{Q00587;P23528;O14907;P61586}

17723 Pathogen[ P0C206] interacts with 8 human partners:{P41182;P52565;P61586;O14907;P98171;Q969H4;P23528;Q00587}

17724 Pathogen[ P03363] interacts with 6 human partners:{O14907;P52565;P98171;Q00587;Q969H4;P23528}

17725 [Cluster 1612]GO:0010694+P biological\_process [name] positive regulation of alkaline phosphatase activity [def] "Any process that increases the frequency, rate or extent



of alkaline phosphatase activity, the catalysis of the reaction

17726 Pathogen[ Q2Q067] interacts with 1 human partners:{P84022}

17727 Pathogen[ P0C214] interacts with 1 human partners:{P84022}

17728 Pathogen[ P03346] interacts with 1 human partners:{P84022}

17729 Pathogen[ Q85601] interacts with 1 human partners:{P84022}

17730 Pathogen[ P14079] interacts with 1 human partners:{Q06413}

17731 Pathogen[ P03383] interacts with 1 human partners:{P84022}

17732 Pathogen[ P03410] interacts with 1 human partners:{P84022}

17733 Pathogen[ P14075] interacts with 1 human partners:{P84022}

17734 Pathogen[ P0C206] interacts with 1 human partners:{P84022}

17735 Pathogen[ P03363] interacts with 1 human partners:{P84022}

17736 [Cluster 1613]GO:2001056+P biological\_process [name] positive regulation of cysteine-type endopeptidase activity [def] "Any process that activates or increases the frequency, rate or extent of cysteine-type endopeptidase activity." [GOC

17737 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9BXH1;O14862}

17738 Pathogen[ P0C214] interacts with 2 human partners:{Q9BXH1;O14862}

17739 Pathogen[ P03346] interacts with 2 human partners:{Q9BXH1;O14862}

17740 Pathogen[ Q85601] interacts with 2 human partners:{Q9BXH1;O14862}

17741 Pathogen[ P14079] interacts with 3 human partners:{O15553;Q9BXH1;O14862}

17742 Pathogen[ P03383] interacts with 2 human partners:{O14862;Q9BXH1}

17743 Pathogen[ P03410] interacts with 2 human partners:{Q9BXH1;O14862}

17744 Pathogen[ P14075] interacts with 2 human partners:{O14862;Q9BXH1}

17745 Pathogen[ P0C206] interacts with 2 human partners:{O14862;Q9BXH1}

17746 Pathogen[ P03363] interacts with 2 human partners:{O14862;Q9BXH1}

17747 [Cluster 1614]GO:0003222+P biological\_process [name] ventricular trabecular myocardium morphogenesis [def] "The process in which the anatomical structures of the trabecular cardiac ventricle muscle are generated and organized." [GOC

17748 Pathogen[ Q2Q067] interacts with 2 human partners:{Q06330;Q9Y5J3}

17749 Pathogen[ P0C214] interacts with 3 human partners:{Q9Y5J3;Q06330;O95155}

17750 Pathogen[ P03346] interacts with 4 human partners:{Q06330;O95155;Q9Y5J3;O75593}

17751 Pathogen[ Q85601] interacts with 3 human partners:{Q06330;O95155;Q9Y5J3}

17752 Pathogen[ P14079] interacts with 2 human partners:{Q06330;Q9Y5J3}

17753 Pathogen[ P03383] interacts with 1 human partners:{Q06330}

17754 Pathogen[ P03410] interacts with 2 human partners:{Q9Y5J3;Q06330}

17755 Pathogen[ P14075] interacts with 1 human partners:{Q06330}

17756 Pathogen[ P0C206] interacts with 3 human partners:{Q06330;O95155;Q9Y5J3}

17757 Pathogen[ P03363] interacts with 3 human partners:{Q9Y5J3;Q06330;O95155}

17758 [Cluster 1615]GO:0048213+P biological\_process [name] Golgi vesicle prefusion complex stabilization [def] "The binding of specific proteins to the t-SNARE/v-SNARE/SNAP25 complex, by which the Golgi vesicle prefusion complex is stabilized." [GOC

17759 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9H9E3}

17760 Pathogen[ P0C214] interacts with 1 human partners:{Q9H9E3}

17761 Pathogen[ P03346] interacts with 1 human partners:{Q9H9E3}

17762 Pathogen[ Q85601] interacts with 1 human partners:{Q9H9E3}

17763 Pathogen[ P14079] interacts with 1 human partners:{Q9H9E3}

17764 Pathogen[ P03383] interacts with 1 human partners:{Q9H9E3}

17765 Pathogen[ P03410] interacts with 1 human partners:{Q9H9E3}

17766 Pathogen[ P14075] interacts with 1 human partners:{Q9H9E3}

17767 Pathogen[ P0C206] interacts with 1 human partners:{Q9H9E3}

17768 Pathogen[ P03363] interacts with 1 human partners:{Q9H9E3}

17769 [Cluster 1616]GO:0042536+P biological\_process [name] negative regulation of tumor necrosis factor biosynthetic process [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the chemical reactions and pathways resulting in the formation of tumor necrosis factor, an inflammatory cytokine produced by macrophages/monocytes during acute inflammation and which is responsible for a diverse range of signaling events within cells, leading to necrosis or apoptosis." [GOC

17770 Pathogen[ Q2Q067] interacts with 1 human partners:{P20749}

17771 Pathogen[ P0C214] interacts with 1 human partners:{P20749}

17772 Pathogen[ P03346] interacts with 1 human partners:{P20749}

17773 Pathogen[ Q85601] interacts with 1 human partners:{P20749}

17774 Pathogen[ P14079] interacts with 1 human partners:{P20749}

17775 Pathogen[ P03383] interacts with 1 human partners:{P20749}

17776 Pathogen[ P03410] interacts with 1 human partners:{P20749}

17777 Pathogen[ P14075] interacts with 1 human partners:{P20749}

17778 Pathogen[ P0C206] interacts with 1 human partners:{P20749}

17779 Pathogen[ P03363] interacts with 1 human partners:{P20749}

17780 [Cluster 1617]GO:0055089+P biological\_process [name] fatty acid homeostasis [def] "Any process involved in the maintenance of an internal steady state of fatty acid within an organism or cell." [GOC

17781 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NP71}

17782 Pathogen[ P0C214] interacts with 1 human partners:{Q9NP71}

17783 Pathogen[ P03346] interacts with 1 human partners:{Q9NP71}

17784 Pathogen[ Q85601] interacts with 1 human partners:{Q9NP71}

17785 Pathogen[ P14079] interacts with 1 human partners:{Q9NP71}

17786 Pathogen[ P03383] interacts with 1 human partners:{Q9NP71}

17787 Pathogen[ P03410] interacts with 1 human partners:{Q9NP71}

17788 Pathogen[ P14075] interacts with 1 human partners:{Q9NP71}  
17789 Pathogen[ P0C206] interacts with 1 human partners:{Q9NP71}  
17790 Pathogen[ P03363] interacts with 1 human partners:{Q9NP71}  
17791 [Cluster 1618]GO:0060349+P biological\_process [name] bone morphogenesis [def] "The process in which bones are generated and organized." [GOC  
17792 Pathogen[ Q2Q067] interacts with 2 human partners:{P35548;P12755}  
17793 Pathogen[ P0C214] interacts with 2 human partners:{P12755;P35548}  
17794 Pathogen[ P03346] interacts with 5 human partners:{P47902;P15863;P35548;Q6BEB4;P56178}  
17795 Pathogen[ Q85601] interacts with 2 human partners:{P12755;P35548}  
17796 Pathogen[ P14079] interacts with 4 human partners:{P12755;Q6BEB4;Q92896;P28360}  
17797 Pathogen[ P03383] interacts with 1 human partners:{P35548}  
17798 Pathogen[ P03410] interacts with 3 human partners:{P12755;Q92896;P35548}  
17799 Pathogen[ P14075] interacts with 1 human partners:{P35548}  
17800 Pathogen[ P0C206] interacts with 2 human partners:{P12755;P35548}  
17801 Pathogen[ P03363] interacts with 3 human partners:{P47902;P35548;Q6BEB4}  
17802 [Cluster 1619]GO:0033574+P biological\_process [name] response to testosterone stimulus [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a testosterone stimulus." [GOC  
17803 Pathogen[ Q2Q067] interacts with 4 human partners:{P30279;P27797;P55212;P27986}  
17804 Pathogen[ P0C214] interacts with 4 human partners:{P55212;P30279;P27797;P27986}  
17805 Pathogen[ P03346] interacts with 5 human partners:{P30279;Q92826;P55212;P27797;P27986}  
17806 Pathogen[ Q85601] interacts with 4 human partners:{P27797;P27986;P30279;P55212}  
17807 Pathogen[ P14079] interacts with 3 human partners:{P60022;P55212;Q16625}  
17808 Pathogen[ P03383] interacts with 4 human partners:{P27986;P55212;P30279;P27797}  
17809 Pathogen[ P03410] interacts with 6 human partners:{P27986;P30279;P60022;Q16625;P55212;P27797}  
17810 Pathogen[ P14075] interacts with 4 human partners:{P30279;P55212;P27797;P27986}  
17811 Pathogen[ P0C206] interacts with 4 human partners:{P27797;P30279;P55212;P27986}  
17812 Pathogen[ P03363] interacts with 5 human partners:{P30279;P55212;P27797;Q92826;P27986}  
17813 [Cluster 1620]GO:0007610+P biological\_process [name] behavior [def] "The specific actions or reactions of an organism in response to external or internal stimuli. Patterned activity of a whole organism in a manner dependent upon some combination of that organism's internal state and external conditions." [GOC  
17814 Pathogen[ Q2Q067] interacts with 1 human partners:{O94925}  
17815 Pathogen[ P0C214] interacts with 3 human partners:{Q8IXF0;O95278;O94925}  
17816 Pathogen[ P03346] interacts with 6 human partners:{Q99742;Q16559;Q8IXF0;O94925;O95278;P53539}  
17817 Pathogen[ Q85601] interacts with 4 human partners:{O94925;O95278;Q8IXF0;P53539}  
17818 Pathogen[ P14079] interacts with 4 human partners:{Q7Z2T5;Q8IXF0;O94925;O96001}  
17819 Pathogen[ P03383] interacts with 1 human partners:{O94925}  
17820 Pathogen[ P03410] interacts with 4 human partners:{Q8IXF0;O94925;O96001;Q16559}  
17821 Pathogen[ P14075] interacts with 1 human partners:{O94925}  
17822 Pathogen[ P0C206] interacts with 4 human partners:{O95278;P53539;O94925;Q8IXF0}  
17823 Pathogen[ P03363] interacts with 4 human partners:{P53539;Q99742;O94925;Q8IXF0}  
17824 [Cluster 1621]GO:0007186+P biological\_process [name] G-protein coupled receptor signaling pathway [def] "Any series of molecular signals that proceeds with an activated receptor promoting the exchange of GDP for GTP on the alpha-subunit of an associated heterotrimeric G-protein complex. The GTP-bound activated alpha-G-protein then dissociates from the beta- and gamma-subunits to further transmit the signal within the cell. The pathway begins with receptor-ligand interaction, or for basal GPCR signaling the pathway begins with the receptor activating its G protein in the absence of an agonist, and ends with regulation of a downstream cellular process, e.g. transcription." [GOC  
17825 Pathogen[ Q2Q067] interacts with 8 human partners:{P31749;P56945;Q8WYR1;P62879;P81274;Q02952;Q5UE93;Q6MZT1}  
17826 Pathogen[ P0C214] interacts with 7 human partners:{P56945;P81274;Q8WYR1;Q6MZT1;Q5UE93;P62879;P31749}  
17827 Pathogen[ P03346] interacts with 12 human partners:{O14908;Q7RTS1;Q8WYR1;Q6MZT1;Q9P2Y4;P62879;P56945;P81274;P31749;Q02952;Q5UE93;O75386}  
17828 Pathogen[ Q85601] interacts with 7 human partners:{P62879;P31749;P81274;Q6MZT1;P56945;Q8WYR1;Q5UE93}  
17829 Pathogen[ P14079] interacts with 19 human partners:{Q02952;Q9NYV7;Q86W33;Q9P2Y4;Q8WYR1;O43813;O60895;P60022;O15263;Q7RTS1;Q15726;Q8WU20;Q6MZT1;Q8N729;P81274;P81277;O14908;Q5UE93;Q8NG41}  
17830 Pathogen[ P03383] interacts with 8 human partners:{P62879;P56945;P31749;Q6MZT1;P81274;Q8WYR1;Q5UE93;Q02952}  
17831 Pathogen[ P03410] interacts with 20 human partners:{Q6MZT1;Q15726;Q5UE93;Q8NG41;Q8WYR1;Q8N729;O60896;O60895;Q86W33;O14908;P31749;Q7RTS1;P60022;P81274;P56945;Q02952;Q8WU20;P81277;P62879;O15263}  
17832 Pathogen[ P14075] interacts with 8 human partners:{P81274;Q8WYR1;P62879;Q5UE93;Q6MZT1;P31749;Q02952;P56945}

17833 Pathogen[ P0C206] interacts with 12 human partners: {Q6MZT1;P31749;P81274;P62879;Q8N729;Q9P2Y4;Q8WU20;O14908;Q02952;Q5UE93;P56945;Q8WYR1}

17834 Pathogen[ P03363] interacts with 13 human partners: {Q7RTS1;P62879;O14908;Q8WYR1;Q02952;P81274;Q5UE93;P31749;P56945;O75386;Q8N729;Q6MZT1;Q9P2Y4}

17835 [Cluster 1622]GO:0042796+P biological\_process [name] snRNA transcription from RNA polymerase III promoter [def] "The synthesis of small nuclear RNA (snRNA) from a DNA template by RNA Polymerase III (Pol III), originating at a Pol III promoter." [GOC

17836 Pathogen[ Q2Q067] interacts with 1 human partners: {Q5SXM2}

17837 Pathogen[ P0C214] interacts with 1 human partners: {Q5SXM2}

17838 Pathogen[ P03346] interacts with 1 human partners: {Q5SXM2}

17839 Pathogen[ Q85601] interacts with 1 human partners: {Q5SXM2}

17840 Pathogen[ P14079] interacts with 1 human partners: {Q5SXM2}

17841 Pathogen[ P03383] interacts with 1 human partners: {Q5SXM2}

17842 Pathogen[ P03410] interacts with 1 human partners: {Q5SXM2}

17843 Pathogen[ P14075] interacts with 1 human partners: {Q5SXM2}

17844 Pathogen[ P0C206] interacts with 1 human partners: {Q5SXM2}

17845 Pathogen[ P03363] interacts with 1 human partners: {Q5SXM2}

17846 [Cluster 1623]GO:0030174+P biological\_process [name] regulation of DNA-dependent DNA replication initiation [def] "Any process that modulates the frequency, rate or extent of initiation of DNA-dependent DNA replication\_ the process in which DNA becomes competent to replicate. In eukaryotes, replication competence is established in early G1 and lost during the ensuing S phase." [GOC

17847 Pathogen[ Q2Q067] interacts with 4 human partners: {Q7Z2Z1;Q9H211;Q96S55;O60934}

17848 Pathogen[ P0C214] interacts with 3 human partners: {Q96S55;Q9H211;Q7Z2Z1}

17849 Pathogen[ P03346] interacts with 4 human partners: {Q7Z2Z1;Q96S55;O60934;Q9H211}

17850 Pathogen[ Q85601] interacts with 4 human partners: {Q7Z2Z1;Q96S55;Q9H211;O60934}

17851 Pathogen[ P14079] interacts with 4 human partners: {Q9H211;O60934;Q96S55;Q7Z2Z1}

17852 Pathogen[ P03383] interacts with 3 human partners: {Q96S55;Q7Z2Z1;Q9H211}

17853 Pathogen[ P03410] interacts with 4 human partners: {Q9H211;Q96S55;Q7Z2Z1;O60934}

17854 Pathogen[ P14075] interacts with 3 human partners: {Q9H211;Q7Z2Z1;Q96S55}

17855 Pathogen[ P0C206] interacts with 4 human partners: {O60934;Q9H211;Q96S55;Q7Z2Z1}

17856 Pathogen[ P03363] interacts with 3 human partners: {Q7Z2Z1;Q9H211;Q96S55}

17857 [Cluster 1624]GO:0031344+P biological\_process [name] regulation of cell projection organization [def] "Any process that modulates the frequency, rate or extent of a process involved in the formation, arrangement of constituent parts, or disassembly of cell projections." [GOC

17858 Pathogen[ Q2Q067] interacts with 1 human partners: {Q8TCI5}

17859 Pathogen[ P0C214] interacts with 1 human partners: {Q8TCI5}

17860 Pathogen[ P03346] interacts with 1 human partners: {Q8TCI5}

17861 Pathogen[ Q85601] interacts with 1 human partners: {Q8TCI5}

17862 Pathogen[ P14079] interacts with 1 human partners: {Q8TCI5}

17863 Pathogen[ P03383] interacts with 1 human partners: {Q8TCI5}

17864 Pathogen[ P03410] interacts with 1 human partners: {Q8TCI5}

17865 Pathogen[ P14075] interacts with 1 human partners: {Q8TCI5}

17866 Pathogen[ P0C206] interacts with 1 human partners: {Q8TCI5}

17867 Pathogen[ P03363] interacts with 1 human partners: {Q8TCI5}

17868 [Cluster 1625]GO:0051489+P biological\_process [name] regulation of filopodium assembly [def] "Any process that modulates the frequency, rate or extent of the assembly of a filopodium, a thin, stiff protrusion extended by the leading edge of a motile cell such as a crawling fibroblast or amoeba, or an axonal growth cone." [GOC

17869 Pathogen[ Q2Q067] interacts with 1 human partners: {P60953}

17870 Pathogen[ P0C214] interacts with 1 human partners: {P60953}

17871 Pathogen[ P03346] interacts with 2 human partners: {P60953;Q96T49}

17872 Pathogen[ Q85601] interacts with 2 human partners: {P60953;P17677}

17873 Pathogen[ P14079] interacts with 2 human partners: {P17677;Q96T49}

17874 Pathogen[ P03383] interacts with 1 human partners: {P60953}

17875 Pathogen[ P03410] interacts with 3 human partners: {Q96T49;P60953;P17677}

17876 Pathogen[ P14075] interacts with 1 human partners: {P60953}

17877 Pathogen[ P0C206] interacts with 3 human partners: {P17677;Q96T49;P60953}

17878 Pathogen[ P03363] interacts with 2 human partners: {Q96T49;P60953}

17879 [Cluster 1626]GO:0000072+P biological\_process [name] M phase specific microtubule process [def] "A microtubule-based process that occurs only during M phase of the cell cycle." [GOC

17880 Pathogen[ Q2Q067] interacts with 2 human partners: {P52292;P02489}

17881 Pathogen[ P0C214] interacts with 2 human partners: {P02489;P52292}

17882 Pathogen[ P03346] interacts with 2 human partners: {P02489;P52292}

17883 Pathogen[ Q85601] interacts with 2 human partners: {P02489;P52292}

17884 Pathogen[ P14079] interacts with 2 human partners: {P02489;P52292}

17885 Pathogen[ P03383] interacts with 1 human partners: {P52292}

17886 Pathogen[ P03410] interacts with 2 human partners: {P02489;P52292}

17887 Pathogen[ P14075] interacts with 1 human partners: {P52292}

17888 Pathogen[ P0C206] interacts with 2 human partners: {P02489;P52292}

17889 Pathogen[ P03363] interacts with 2 human partners: {P02489;P52292}

17890 [Cluster 1627]GO:0042633+P biological\_process [name] hair cycle [def] "The cyclical

phases of growth (anagen), regression (catagen), quiescence (telogen), and shedding (exogen) in the life of a hair\_ one of the collection or mass of filaments growing from the skin of an animal, and forming a covering for a part of the head or for any part or the whole of the body." [GOC

17891 Pathogen[ Q2Q067] interacts with 2 human partners:{Q8WUF5;Q9Y651}

17892 Pathogen[ P0C214] interacts with 2 human partners:{Q8WUF5;Q9Y651}

17893 Pathogen[ P03346] interacts with 2 human partners:{Q8WUF5;Q9Y651}

17894 Pathogen[ Q85601] interacts with 2 human partners:{Q9Y651;Q8WUF5}

17895 Pathogen[ P14079] interacts with 1 human partners:{Q8WUF5}

17896 Pathogen[ P03383] interacts with 1 human partners:{Q8WUF5}

17897 Pathogen[ P03410] interacts with 1 human partners:{Q8WUF5}

17898 Pathogen[ P14075] interacts with 1 human partners:{Q8WUF5}

17899 Pathogen[ P0C206] interacts with 2 human partners:{Q8WUF5;Q9Y651}

17900 Pathogen[ P03363] interacts with 2 human partners:{Q8WUF5;Q9Y651}

17901 [Cluster 1628]GO:0050821+P biological\_process [name] protein stabilization [def] "Any process involved in maintaining the structure and integrity of a protein and preventing it from degradation or aggregation." [GOC

17902 Pathogen[ Q2Q067] interacts with 25 human partners:{Q9NQG7;Q6NVH7;Q9BZE4;Q99747;Q99497;P83436;P51610;Q8N726;P27797;P63146;P40337;P84022;O15105;Q96JB2;P04406;Q8NFZ5;Q969H0;Q3YBR2;Q19AV6;Q9NS23;P40855;P15923;Q96EY1;Q9NZD4;Q96IU2}

17903 Pathogen[ P0C214] interacts with 29 human partners:{Q9NQG7;P51610;Q99747;Q9NS23;P46379;P40855;P84022;P83436;Q99497;Q8N726;P15923;Q9NZD4;O15105;P40337;P10809;Q6NVH7;Q969H0;Q3YBR2;Q8NFZ5;P10909;P27797;Q96IU2;Q9BZE4;P16220;Q19AV6;Q96JB2;P04406;Q96EY1;P63146}

17904 Pathogen[ P03346] interacts with 36 human partners:{Q06945;Q9NQG7;Q9NQC8;P04406;P16220;Q96JB2;Q9BZE4;Q14149;Q8NFZ5;Q9NZD4;P51610;P15923;O15105;P84022;O60519;P63146;P46379;Q3YBR2;O75604;Q19AV6;Q99497;P27797;P40337;P83436;O15151;Q96IU2;Q6NVH7;P40855;Q8N726;Q969H0;Q9NQ94;Q9NS23;Q96EY1;Q99747;Q96M02;Q86Y82}

17905 Pathogen[ Q85601] interacts with 30 human partners:{Q3YBR2;Q9NQG7;Q99497;Q96M02;P63146;Q969H0;Q9BZE4;O15151;Q19AV6;P40337;Q6NVH7;P46379;Q96JB2;P83436;P27797;Q9NS23;Q14149;P51610;Q8N726;Q8NFZ5;P16220;Q9NZD4;P15923;P84022;O15105;P04406;Q96EY1;P40855;Q99747;Q96IU2}

17906 Pathogen[ P14079] interacts with 30 human partners:{Q9NQG7;P40855;Q9NS23;P83436;Q969H0;Q96IU2;Q99497;Q8N726;P10909;Q99747;P15923;Q9NQ94;P51610;Q9BZE4;Q6NVH7;Q14149;Q96M02;P40337;Q8NFZ5;Q9NZD4;Q19AV6;Q3YBR2;Q9NQC8;Q96JB2;P28360;O15105;O15151;P63146;Q96EY1;P04406}

17907 Pathogen[ P03383] interacts with 24 human partners:{Q9NQG7;P16220;P40337;P83436;Q6NVH7;Q19AV6;Q96JB2;P15923;Q9BZE4;Q96IU2;O15105;P51610;P84022;Q99747;P04406;Q969H0;P63146;Q3YBR2;Q8NFZ5;Q96EY1;P40855;Q8N726;P27797;Q9NZD4}

17908 Pathogen[ P03410] interacts with 31 human partners:{P84022;Q96M02;Q9NQG7;Q96IU2;P51610;Q99497;Q8NFZ5;Q96JB2;O15151;Q8N726;Q14149;Q19AV6;Q9NS23;P40855;Q6NVH7;P15923;Q969H0;P63146;Q3YBR2;P16220;P04406;O15105;Q9NQC8;P83436;Q96EY1;Q99747;Q9BZE4;P40337;P10909;Q9NZD4;P27797}

17909 Pathogen[ P14075] interacts with 24 human partners:{Q9NQG7;Q96IU2;Q96JB2;P40855;P51610;Q99747;P15923;Q8NFZ5;Q3YBR2;Q19AV6;P04406;P27797;O15105;Q9BZE4;P16220;P63146;P84022;Q6NVH7;P40337;Q969H0;Q9NZD4;P83436;Q96EY1;Q8N726}

17910 Pathogen[ P0C206] interacts with 33 human partners:{Q9NQC8;P84022;Q9NQG7;Q96M02;Q19AV6;P83436;P27797;Q8N726;P16220;O75604;Q8NFZ5;Q969H0;Q96JB2;Q99497;O15105;O15151;P51610;P40855;Q14149;P15923;P04406;P10909;Q9BZE4;Q99747;Q6NVH7;Q9NS23;Q9NZD4;Q3YBR2;Q96EY1;P46379;Q96IU2;P40337;P63146}

17911 Pathogen[ P03363] interacts with 31 human partners:{P46379;Q3YBR2;Q9NQG7;Q19AV6;O75604;Q9BZE4;P16220;P83436;O15151;O15105;Q96M02;P63146;P40337;P15923;P27797;P84022;P04406;Q969H0;Q9NS23;Q9NZD4;P40855;Q8N726;Q96IU2;Q6NVH7;Q8NFZ5;Q96EY1;Q99747;Q9NQC8;Q9NQ94;P51610;Q96JB2}

17912 [Cluster 1629]GO:0000279+P biological\_process [name] M phase [def] "A cell cycle process comprising the steps by which a cell progresses through M phase, the part of the cell cycle comprising nuclear division." [GOC

17913 Pathogen[ Q2Q067] interacts with 2 human partners:{P06400;Q12906}

17914 Pathogen[ P0C214] interacts with 2 human partners:{Q12906;P06400}

17915 Pathogen[ P03346] interacts with 2 human partners:{P06400;Q12906}

17916 Pathogen[ Q85601] interacts with 2 human partners:{P06400;Q12906}

17917 Pathogen[ P14079] interacts with 1 human partners:{Q12906}

17918 Pathogen[ P03383] interacts with 2 human partners:{P06400;Q12906}

17919 Pathogen[ P03410] interacts with 2 human partners:{P06400;Q12906}

17920 Pathogen[ P14075] interacts with 2 human partners:{Q12906;P06400}

17921 Pathogen[ P0C206] interacts with 2 human partners:{Q12906;P06400}

17922 Pathogen[ P03363] interacts with 2 human partners:{P06400;Q12906}

17923 [Cluster 1630]GO:0060700+P biological\_process [name] regulation of ribonuclease activity [def] "Any process that modulates the rate, frequency, or extent of ribonuclease activity, catalysis of the hydrolysis of phosphodiester bonds in chains of RNA." [GOC

17924 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9Y6K5}

17925 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y6K5}

17926 Pathogen[ P03346] interacts with 1 human partners:{Q9Y6K5}

17927 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y6K5}

17928 Pathogen[ P14079] interacts with 1 human partners:{Q9Y6K5}

17929 Pathogen[ P03383] interacts with 1 human partners:{Q9Y6K5}

17930 Pathogen[ P03410] interacts with 1 human partners:{Q9Y6K5}

17931 Pathogen[ P14075] interacts with 1 human partners:{Q9Y6K5}

17932 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y6K5}

17933 Pathogen[ P03363] interacts with 1 human partners:{Q9Y6K5}

17934 [Cluster 1631]GO:0046928+P biological\_process [name] regulation of neurotransmitter secretion [def] "Any process that modulates the frequency, rate or extent of the regulated release of a neurotransmitter from a cell or group of cells." [GOC

17935 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9Y6H5}

17936 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y6H5}

17937 Pathogen[ P03346] interacts with 1 human partners:{Q9Y6H5}

17938 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y6H5}

17939 Pathogen[ P14079] interacts with 4 human partners:{Q9Y6H5;O43612;Q8WVH0;Q7Z7G2}

17940 Pathogen[ P03383] interacts with 1 human partners:{Q9Y6H5}

17941 Pathogen[ P03410] interacts with 4 human partners:{Q9Y6H5;O43612;Q8WVH0;Q7Z7G2}

17942 Pathogen[ P14075] interacts with 1 human partners:{Q9Y6H5}

17943 Pathogen[ P0C206] interacts with 2 human partners:{Q7Z7G2;Q9Y6H5}

17944 Pathogen[ P03363] interacts with 1 human partners:{Q9Y6H5}

17945 [Cluster 1632]GO:0032790+P biological\_process [name] ribosome disassembly [def] "The disaggregation of a ribosome into its constituent components\_ includes the dissociation of ribosomal subunits." [GOC

17946 Pathogen[ Q2Q067] interacts with 2 human partners:{Q96E11;Q9H2K0}

17947 Pathogen[ P0C214] interacts with 2 human partners:{Q96E11;Q9H2K0}

17948 Pathogen[ P03346] interacts with 2 human partners:{Q96E11;Q9H2K0}

17949 Pathogen[ Q85601] interacts with 1 human partners:{Q96E11}

17950 Pathogen[ P14079] interacts with 3 human partners:{Q96E11;Q9H2K0;Q969S9}

17951 Pathogen[ P03383] interacts with 2 human partners:{Q9H2K0;Q96E11}

17952 Pathogen[ P03410] interacts with 3 human partners:{Q9H2K0;Q969S9;Q96E11}

17953 Pathogen[ P14075] interacts with 2 human partners:{Q96E11;Q9H2K0}

17954 Pathogen[ P0C206] interacts with 2 human partners:{Q9H2K0;Q96E11}

17955 Pathogen[ P03363] interacts with 1 human partners:{Q96E11}

17956 [Cluster 1633]GO:2000010+P biological\_process [name] positive regulation of protein localization at cell surface [def] "Any process that activates or increases the frequency, rate or extent of protein localization at cell surface." [GOC

17957 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9HD47}

17958 Pathogen[ P0C214] interacts with 1 human partners:{Q9HD47}

17959 Pathogen[ P03346] interacts with 1 human partners:{Q9HD47}

17960 Pathogen[ Q85601] interacts with 1 human partners:{Q9HD47}

17961 Pathogen[ P14079] interacts with 1 human partners:{Q9HD47}

17962 Pathogen[ P03383] interacts with 1 human partners:{Q9HD47}

17963 Pathogen[ P03410] interacts with 1 human partners:{Q9HD47}

17964 Pathogen[ P14075] interacts with 1 human partners:{Q9HD47}

17965 Pathogen[ P0C206] interacts with 1 human partners:{Q9HD47}

17966 Pathogen[ P03363] interacts with 1 human partners:{Q9HD47}

17967 [Cluster 1634]GO:0034227+P biological\_process [name] tRNA thio-modification [def] "The addition a sulfur atom to a nucleotide in a tRNA molecule." [GOC

17968 Pathogen[ Q2Q067] interacts with 3 human partners:{Q7Z7A3;Q2VPK5;Q9BTM9}

17969 Pathogen[ P0C214] interacts with 4 human partners:{Q9BTM9;Q95396;Q2VPK5;Q7Z7A3}

17970 Pathogen[ P03346] interacts with 3 human partners:{Q9BTM9;Q7Z7A3;Q2VPK5}

17971 Pathogen[ Q85601] interacts with 3 human partners:{Q2VPK5;Q9BTM9;Q7Z7A3}

17972 Pathogen[ P14079] interacts with 3 human partners:{Q2VPK5;Q7Z7A3;Q9BTM9}

17973 Pathogen[ P03383] interacts with 3 human partners:{Q7Z7A3;Q9BTM9;Q2VPK5}

17974 Pathogen[ P03410] interacts with 3 human partners:{Q7Z7A3;Q2VPK5;Q9BTM9}

17975 Pathogen[ P14075] interacts with 3 human partners:{Q9BTM9;Q2VPK5;Q7Z7A3}

17976 Pathogen[ P0C206] interacts with 4 human partners:{Q2VPK5;Q95396;Q7Z7A3;Q9BTM9}

17977 Pathogen[ P03363] interacts with 3 human partners:{Q9BTM9;Q7Z7A3;Q2VPK5}

17978 [Cluster 1635]GO:0007289+P biological\_process [name] spermatid nucleus differentiation [def] "The specialization of the spermatid nucleus during the development of a spermatid into a mature male gamete competent for fertilization." [GOC

17979 Pathogen[ Q2Q067] interacts with 1 human partners:{P62380}

17980 Pathogen[ P0C214] interacts with 2 human partners:{P62380;Q9HD26}

17981 Pathogen[ P03346] interacts with 2 human partners:{P62380;Q9HD26}

17982 Pathogen[ Q85601] interacts with 2 human partners:{Q9HD26;P62380}

17983 Pathogen[ P14079] interacts with 2 human partners:{P62380;Q9HD26}

17984 Pathogen[ P03383] interacts with 1 human partners:{Q9HD26}

17985 Pathogen[ P03410] interacts with 2 human partners:{P62380;Q9HD26}

17986 Pathogen[ P14075] interacts with 1 human partners:{Q9HD26}

17987 Pathogen[ P0C206] interacts with 2 human partners:{P62380;Q9HD26}

17988 Pathogen[ P03363] interacts with 2 human partners:{P62380;Q9HD26}

17989 [Cluster 1636]GO:0006974+P biological\_process [name] response to DNA damage stimulus [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a stimulus

indicating damage to its DNA from environmental insults or errors during metabolism."  
[GOC

- 17990 Pathogen[ Q2Q067] interacts with 243 human partners: {Q86W56;Q9Y253;Q9Y5K5;Q9NWS1;Q2YD98;P25490;O00213;P0C1Z6;Q9Y2M0;Q9NVH2;Q6NVH7;Q96SD1;Q93009;Q9BW66;Q99502;Q6ZW49;P24385;Q16594;Q9NS56;Q7Z2Z1;Q99638;Q8IY18;Q12888;Q6PJP8;Q92889;Q9HB96;P27694;P49959;Q96LA8;Q13889;P01106;Q6NS38;Q52LR7;Q7Z589;P46937;Q9UN51;Q95997;Q8N0Z6;Q15233;P41182;Q96019;Q9BRQ6;Q95243;Q99708;P18887;Q75807;Q13111;Q92985;O00167;Q9C086;Q5UIP0;Q96T88;P20749;Q9NZJ0;Q9UIF7;Q7Z2E3;Q9UHC1;Q969S2;Q96B01;P35244;P32780;Q8N2Z9;A8MT69;Q9UPV0;Q96EZ8;Q96S55;Q9UNA4;O14757;Q9N8V8;O15350;Q92759;P35638;Q9NY61;Q96AH0;P54727;P41218;Q9H981;Q53TQ3;Q9UBZ9;Q92547;Q86YC2;Q16531;Q95551;Q13156;Q13794;Q9BQ15;Q7Z6Z7;Q9N8V1;Q00597;Q43542;Q06609;Q9H9Q4;Q9BSD3;Q8NBZ0;P11388;P54725;Q14669;P61077;Q9Y2A0;Q68DK2;P27695;Q08050;Q13112;P12004;Q43524;Q43502;P63146;P06746;P24522;Q13469;Q15004;Q1ZZU3;Q99504;P29372;Q8NB91;Q9Y6P5;A4GXA9;Q9BTP7;Q99728;Q14653;Q60934;Q96017;Q5MJ70;Q9BQ83;P15927;Q8N140;Q8N3C0;Q9NPD8;Q9Y6K9;Q2TAK8;Q9NUW8;O00255;Q7LG56;P54278;Q9UQ84;Q9NPI8;P50750;Q6P4R8;Q8WXE1;P09874;Q13426;Q96MT8;Q96Q83;P50613;Q8IWL9;P23246;P61088;Q9HB75;P46100;Q9NRY2;Q6UWZ7;O15527;Q9P278;Q03468;P38936;P12956;Q68E01;Q60216;P39748;Q9UBU8;Q96HA7;Q15014;Q76064;Q13216;Q43299;P43351;Q8TD B6;Q75943;P78549;Q9UM11;Q9H816;P23396;Q13620;Q9BVW5;Q13619;Q13569;Q14686;Q96T76;Q9UI 95;Q969H0;Q96MG7;P41208;Q96NY9;Q86XK3;Q19AV6;Q9UNE7;Q9ULG1;Q9NS23;Q0VG06;P49459;Q146 76;Q96AY2;Q9NUS5;P16455;Q86WJ1;Q01831;Q96MF7;Q6ZRQ5;Q9P287;Q14683;P21675;Q9NP87;P249 41;P13010;Q8IY92;Q9UKK3;Q9NRD1;Q9Y5B9;Q92466;Q9H040;Q9UBL3;P13051;Q60870;Q6ZYL4;O152 87;Q9ULC4;Q6P1K8;Q9HAW4;Q9UMS4;Q6PI98;Q9NXX6;Q9H9F9;Q8IYD8;O60671;O15360;Q9NXR7;Q8TC 71;Q96RL1;Q9HCS7;Q9BTA9;P62877;Q53HV7;Q13888;O60921;P28715;Q9NW38;Q9BXW9;Q8N9B5;Q6NZ 36;P78543;Q08945;Q71UM5;P23025}
- 17991 Pathogen[ P0C214] interacts with 248 human partners: {P43351;Q8IWL9;Q95551;Q96B02;Q95243;Q8IY18;Q9Y6P5;O15287;O00213;Q9H9Q4;Q9P2 78;Q13619;Q9HCS7;P27695;Q9NVH2;Q00597;Q06609;Q9H040;Q13469;P24522;Q99728;Q13620;Q131 56;Q9BQ83;Q9Y6K9;Q5UIP0;Q96S55;P49959;Q9H816;Q8WXE1;Q52LR7;Q9NXX6;P78543;Q92889;P130 10;P06746;Q9NS23;Q9H9F9;P21675;Q8N0Z6;Q53TQ3;Q14164;P50750;P23396;Q2TAK8;P50613;Q131 12;Q15014;P23025;Q5H9I0;Q9NS56;O15350;O00167;Q75807;Q9C086;Q96SD1;Q13111;Q9NUA8;Q53H V7;Q15233;Q96NY9;P46937;Q9N8V8;Q99708;Q9UBZ9;P23246;Q9BVW5;P54725;Q6NZ36;Q9NU S5;P41218;Q96AH0;Q7Z589;P49459;Q96MT8;Q9ULG1;Q86W56;Q71UM5;Q9Y2A0;Q9NRD1;Q9Y2M0;P205 85;P24385;Q14676;Q68E01;Q14686;Q9HAW4;P62877;Q9NY61;Q9UI95;Q6ZRQ5;Q6P1K8;P38936;Q165 94;Q96T88;Q9UMS4;P61077;Q6ZW49;Q13794;P0C1Z6;Q9Y5K5;Q13216;Q9BW66;Q9UPV0;Q60921;Q8N3 C0;Q8N2Z9;Q6PJP8;O43299;P28715;P98170;Q92698;Q60870;Q9HB96;Q6PI98;Q92985;Q13426;Q6NS 38;Q96017;Q43542;Q96AY2;Q95071;P18887;P46100;Q9UHC1;Q9UNA4;Q7Z2E3;Q96MF7;Q9UIF7;Q6UW Z7;Q9NZJ0;Q9UBU8;P20749;Q6P4R8;Q9NVI1;P15927;Q96MG7;Q9UN51;Q43502;P24941;Q0VG06;P425 74;Q6NVH7;P41182;P35244;O15360;Q99504;Q9Y5B9;P11388;Q93009;Q96RL1;Q9HB75;A4GXA9;Q96B 01;Q15004;Q8WTP8;Q969H0;Q14653;P54727;Q75943;Q9BSD3;P32780;P41208;P16455;Q86YC2;Q9NP I8;O60671;Q96NY9;Q14669;Q9BXW9;Q14683;Q01831;P39748;Q1ZZU3;Q9UKK3;Q13888;Q9UHC1;Q128 88;Q7Z6Z7;P78549;P29372;Q08945;Q9UQ84;Q96BT7;Q95997;Q5MJ70;P27694;Q9NUW8;Q9NXR7;Q68D K2;Q9BTA9;P54278;Q8IY92;Q9NWS1;Q92547;Q9P287;Q8TC71;Q9NP87;Q86XK3;Q9UM11;O15527;P406 92;Q13569;O14757;Q92466;Q7LG56;Q99638;Q19AV6;Q8TDB6;Q9BRQ6;Q8IYW5;Q96EZ8;Q96Q83;Q9UN E7;Q76064;Q9NPD8;Q9ULC4;Q96HA7;Q16531;Q9Y253;Q60216;Q8IYD8;P01106;Q86WJ1;Q03468;Q960 19;Q92759;Q5XUX0;Q7Z2Z1;P63146;P12956;O00255;Q9NRY2;P61088;P35638;P13051;Q96T76;Q9BQ 15;Q8NBZ0;Q9NW38;P09874;Q9H981;Q8N140;Q9BTP7;P55072;Q96LA8;Q99502}
- 17992 Pathogen[ P03346] interacts with 279 human partners: {O60921;Q12888;Q9NZJ0;Q9NS91;Q8N2Z9;Q9Y6K9;Q9Y2A0;P12004;Q9Y253;Q8NB91;O002 13;Q99828;P46937;Q93009;P28715;Q7Z5Q5;Q76064;Q95677;Q96HA7;P12956;Q9NVI1;P24385;Q7Z2 Z1;Q06609;Q96MF7;Q95551;Q96017;Q6ZRQ5;Q96SD1;P46100;Q8N9B5;Q6PCD5;Q9UM11;Q8IWL9;Q52L R7;Q5MJ70;Q9BSD3;P35638;O00167;P11388;Q43502;P27694;Q8TC71;Q95714;A8MT69;Q15291;Q997 28;Q86XK3;Q96EZ8;Q9C086;Q6P1K8;Q9UNA4;P07992;Q9H9F9;P35244;Q15004;O15360;Q9UBZ9;Q997 08;Q9ULG1;P25490;P24941;Q13426;Q9UMS4;Q43313;Q16531;Q13156;Q96AH0;P23246;Q13888;Q96M G7;Q9UKK3;Q9NUW8;P13010;Q9UN51;O14757;Q7Z589;Q2TAK8;Q71UM5;Q9BRQ6;P98170;Q0VG06;Q080 50;Q8WV22;Q96RL1;P42574;Q9UIF7;Q96AY2;Q9UBL3;P49459;Q99638;O15350;Q99502;Q96PI98;Q9UI 95;Q92698;Q68E01;Q9HCS7;Q9P278;P55072;Q9NUA8;P61077;Q95997;Q9BTP7;Q08945;P0C1Z6;Q8N3 C0;Q13620;Q13889;P41218;Q96NY9;P61088;Q75943;Q6NZ36;Q7Z333;Q9UHC1;Q8N0Z6;P01106;P628 77;Q969S2;P41208;Q60870;Q9NVH2;Q53HV7;Q9HAW4;Q9NS56;Q14676;Q14694;Q96019;Q7LG56;Q8N1 40;Q96S55;Q9NXR7;Q13469;Q03468;O00255;O15287;Q9BQ15;O15315;Q6ZYL4;P63146;Q01831;Q146 83;Q9NWS1;Q9UBU8;Q9HB75;Q9UNE7;P13051;Q9H040;P51587;P20585;Q8WXE1;P29372;P50750;Q96B 01;Q43542;Q9NY61;Q9Y5B9;Q14669;Q13111;Q9H981;Q9NRD1;Q9NUS5;Q53TQ3;Q75771;Q12778;Q19A V6;P15927;P54727;Q5H9I0;Q86YC2;Q9BW66;Q5UIP0;Q9NPD8;Q13216;P49959;Q2YD98;Q14653;Q9HB 96;Q8IYW5;Q8NBZ0;P09874;Q15014;Q9N8V8;Q96Q83;Q68DK2;P41182;Q96BT7;P78549;P43351;Q927 59;P20749;Q60934;P18887;P23396;Q15233;Q92889;Q92547;Q21675;P55211;Q00597;Q9BXW9;Q9UQ 84;Q9H9Q4;Q13619;Q96PY6;Q13569;Q86W56;Q95243;P54725;P54278;Q6NVH7;Q9NRY2;Q9HA38;Q8IY D8;Q7Z2E3;Q6P4R8;P23025;Q60671;Q6PJP8;Q96FW1;Q9BQ83;P27695;Q8TDB6;Q9NPI8;P38936;Q9Y6 P5;Q9P287;Q94782;O15516;Q9NP87;Q43299;Q92985;P39748;Q92466;Q9NW38;Q13112;Q95071;Q86W J1;Q8IY92;Q43543;Q8IY18;Q9H816;Q99504;Q6UWZ7;O15527;Q9Y2M0;Q43524;P06746;Q969H0;Q1ZZ U3;P0C2W1;Q9BVW5;Q9UBZ4;Q9ULC4;P78543;Q7Z6Z7;Q60216;P54277;Q9NS23;Q75807;A4GXA9;Q9Y5 K5;Q14164;P32780;Q5XUX0;Q96LA8;Q96T88;Q96T76;Q6ZW49;Q13794;Q96M02;P24522;Q9UPV0;Q9BT A9;Q96MT8;Q9NXX6;Q14686;Q16594}
- 17993 Pathogen[ Q85601] interacts with 263 human partners: {P43351;Q9UBZ4;P01106;O00213;Q15014;Q96M02;Q9NWS1;Q9Y2M0;Q9Y5T5;O15527;Q9HC S7;Q96T76;P09874;Q43502;O15315;Q9NS56;Q96HA7;P23025;P24385;Q53TQ3;Q7Z2Z1;Q8TDB6;Q9BT P7;P63146;Q96RL1;Q01831;Q96017;Q9NUA8;Q6ZYL4;Q93009;Q15004;Q96AH0;Q969H0;Q8IYD8;Q9UQ 84;Q8WXE1;P50750;Q52LR7;Q92547;Q9H040;P18887;Q969S2;Q6NZ36;P13051;Q9BXW9;Q8IY18;Q9NY

61;Q16531;Q9UI95;Q19AV6;O95714;Q96PY6;Q68E01;O95677;Q13888;Q9C086;P16455;Q13112;Q13216;Q9H9F9;P62877;Q9NUS5;P23396;P35244;Q99708;A4GXA9;Q13426;Q9UMS4;Q9UHJ9;Q6NVH7;Q6PCD5;Q9Y6P5;Q9NPI8;Q96MG7;O15516;Q1ZZU3;Q9UUK3;Q99728;Q9NZJ0;Q9BTA9;Q9UBU8;Q99504;Q2TAK8;Q9BRQ6;P25490;P98170;P24522;Q96AY2;O43299;O95243;Q71UM5;Q9BQ15;Q9Y5B9;O96019;Q14669;Q9UGP5;P49959;Q13469;Q9NS23;Q96B02;Q9BW66;Q9NPD8;O60216;Q92698;Q6P1K8;Q16594;Q9NY2;P61077;P27694;Q6ZRQ5;O43542;Q00597;Q96H14;P0C1Z6;Q12888;Q96NY9;Q12888;O14757;Q7Z589;O75943;P28715;Q8N0Z6;Q14686;Q9UBL3;O60870;Q9UPV0;Q8NBZ0;Q14653;Q14164;Q03468;Q9Y6K9;Q9HB96;Q6PI98;Q9H981;Q7LG56;Q8N140;O76064;P54727;Q8IY92;Q9NVI1;P15927;Q92759;Q9HAW4;P32780;P78543;Q14683;Q96SD1;P54725;Q99502;P20585;Q9UBZ9;P41218;Q53HV7;Q96MT8;Q6P4R8;A8MT69;Q96B01;O60921;Q5UIP0;Q9HA38;Q9Y5K5;Q6UWZ7;Q9NWV8;P11388;Q96T88;Q92985;Q9UBT6;O00255;Q9NUW8;Q9NW38;Q86YC2;Q8N2Z9;Q9ULG1;Q9HB75;Q13569;P50613;P49459;Q8IYW5;Q6ZW49;Q68DK2;Q5H9I0;Q8IW19;O15360;Q6NS38;Q15233;Q9UM11;O60671;Q96Q83;Q96S55;Q9UIF7;P54278;O15287;Q08945;P21675;P46937;Q08050;Q9UHC1;Q7Z6Z7;Q13156;Q7Z2E3;Q6PJP8;P06746;P12004;Q86WJ1;O15350;Q9BQ83;P38936;Q9P287;Q13620;Q13111;Q0VG06;Q9NP87;P23246;P41182;P39748;P40692;P78549;Q92466;P61088;O95071;P19447;O00167;O75807;Q9H816;Q96EZ8;Q9NXX6;Q9UNE7;Q8WV22;Q13619;Q06609;Q9ULC4;Q86XK3;Q9P278;Q8N9B5;Q9Y253;P24941;Q9UNA4;P27695;Q14676;P46100;Q9NXR7;P20749;Q99638;P51587;Q86W56;O95551;O95997;Q96LA8;Q13794;Q9H9Q4;Q9BVW5;P13010;P12956;Q96MF7;Q9NS91;Q8N3C0;P35638;P29372;Q5MJ70;O60934;P41208;Q9NRD1;Q9UN

17994

Pathogen[ P14079] interacts with 254 human

partners: {O60671;Q5XUX0;Q9Y5B9;P11388;P41218;Q15014;O15315;Q9NWS1;P20585;Q9BQ15;Q8TAT5;P09874;P78543;Q08945;Q9BRQ6;Q5MJ70;P23396;Q9ULG1;Q9UIF7;Q96B01;Q9UNA4;Q99502;Q8NB91;Q68DK2;P28715;Q9ULC4;Q96MF7;Q9NS23;Q969H0;Q9UBU8;Q96LA8;Q14653;Q96NY9;Q52LR7;Q16594;Q9C0B1;Q9UGP5;Q8IYD8;Q9NUA8;Q8N9B5;Q9UBL3;Q9H9Q4;Q9NY61;P13010;Q13620;Q92985;P40692;Q9UBZ4;Q9BTA9;Q9NPI8;Q9H040;Q9NPD8;Q16531;Q00597;Q14164;Q6UWZ7;Q8WXE1;P54278;P29372;O75807;O00487;Q92698;P51587;O60216;Q5H9I0;Q9UHC1;P23246;Q96SD1;P23246;Q9UBZ9;Q13112;Q13216;P16455;Q13889;Q9BXW9;Q13111;Q9NVH2;P46937;Q86YC2;O60934;Q9BSD3;O15527;Q99828;P78549;O60870;Q13156;Q9HCS7;P61077;Q9UUK3;Q96AH0;Q96AY2;P23025;O15350;P62877;Q7LG56;Q9BQ50;A4GXA9;Q2TAK8;Q6NVH7;P46100;Q9UHJ9;Q9NVI1;Q6PI98;Q9Y6P5;Q96M02;P50613;Q9H981;Q13888;P12956;Q9HAW4;P41182;Q9NUW8;Q9NXR7;Q9Y5K5;Q9UMS4;Q8N8Q3;O75943;Q96A7;Q8IYL4;Q9BW66;Q9UM11;Q7Z5Q5;Q99708;Q0VG06;Q96S55;P38936;Q9Y6K9;Q6NS38;Q9NWV8;O95243;Q8N2Z9;P18887;P49459;Q86WJ1;Q19AV6;P24522;P0C1Z6;Q969S2;Q6ZW49;Q92759;Q96FI4;Q13794;Q71UM5;Q92889;Q68E01;P27695;Q9Y2M0;Q1ZZU3;A8MT69;Q96RL1;Q8N140;Q9NS56;P35638;Q9HAW38;O95551;P01106;O43502;Q9NSU2;P54277;O95997;Q9NP87;Q6P4R8;Q8N0Z6;O43543;P32780;Q53HV7;P41208;P06746;P15927;Q14676;P20749;Q92547;Q9Y253;O43299;Q96SD1;P27694;Q8IY18;Q86W56;Q99638;Q9HB96;Q9UQE7;Q9NRD1;Q99504;Q03468;Q9NZJ0;Q9BTP7;Q92466;P12004;Q9Y2A0;Q9NY2;Q96MG7;Q9NUS5;Q13469;Q01831;Q15004;Q9BQ83;O00167;P52701;Q6PJP8;Q96JY0;Q13569;Q12888;Q6P1K8;Q2YD98;P25490;Q6ZRQ5;Q15233;O43313;P35244;Q5UIP0;Q06609;Q14683;Q9NW38;P54277;Q96Q83;Q9UN51;Q7Z2Z1;Q7Z2E3;Q53TQ3;O00255;Q9UBT6;P63146;Q9H816;Q96EZ8;Q9P287;O15360;Q9HB75;Q9NXX6;Q13426;Q9UX84;Q7Z589;Q96T76;Q14686;O60921;Q9H9F9;P07992;Q8TC71;Q96FW1;P19447;O43542;Q86XK3;Q13619;P13051;Q8IY92;P49917;P21675;P39748;Q9UPV0;P50750;Q9BVW5;P43351;Q8IW19;Q8WTP8}

17995

Pathogen[ P03383] interacts with 199 human

partners: {P43351;Q14683;Q9UN51;Q7Z2E3;Q99504;Q9Y253;O00213;Q9NY61;Q15014;Q12888;O14757;Q8N2Z9;Q96T76;Q06609;O60671;P06746;Q14653;Q9BVW5;O96019;Q68E01;P13010;Q9NXX6;Q9NWS1;O00167;Q68DK2;P54278;Q9Y6K9;Q6ZYL4;Q13469;Q9NZJ0;Q13216;Q5H9I0;Q9BTA9;Q5UIP0;Q8WXE1;Q52LR7;Q6P4R8;Q96RL1;Q9H981;P01106;Q6NVH7;Q9HCS7;O15527;Q9UI95;Q13888;Q19AV6;P27694;Q53HV7;Q53TQ3;Q9BXW9;Q9C086;A4GXA9;Q9UHC1;Q15004;Q9BRQ6;P41208;P20749;Q8IW19;Q14686;Q96B01;Q9H9Q4;P24522;P35638;Q6PJP8;Q9UBU8;P24385;Q08945;Q71UM5;Q6ZW49;Q9NUS5;Q96S55;O60216;Q96MF7;Q6P1K8;Q01831;Q9Y2A0;Q9P278;Q6PI98;Q96MT8;Q9H9F9;O60921;P61077;P41218;P61088;Q7Z589;P46100;P29372;Q6ZRQ5;O60870;O95243;Q16594;Q92985;Q9H816;P78543;Q9NVI1;P15927;Q7Z2Z1;Q13111;P50613;Q86W56;Q9H040;Q03468;Q9HAW4;O15287;P24941;Q13426;Q96AY2;P09874;P23025;Q9UM11;P54725;Q2TAK8;P50750;Q8NBZ0;P35244;O15350;A8MT69;O00255;P0C1Z6;Q9Y5K5;Q8N140;Q9Y2M0;Q9NRY2;P54277;Q9UBZ9;Q92759;Q13569;O43299;Q9HB96;Q9NWV8;Q969H0;Q8IY92;Q99708;Q99638;Q9UUK3;Q9UPV0;Q00597;Q86XK3;Q96PY6;P21675;Q96MG7;Q9NNUW8;P62877;Q8N9B5;O95997;O15360;Q9BQ15;P49459;Q9BW66;Q86YC2;Q15233;Q9NPD8;O43542;O75807;Q96HA7;P18887;P27695;O95551;P63146;P23246;Q16531;Q96Q83;Q9P287;Q9BSD3;Q13156;Q13794;Q9NRD1;Q92547;Q14676;Q92466;Q9NW38;P13051;Q96EZ8;Q96AH0;Q9NPI8;Q1ZZU3;Q9ULC4;P46937;Q9NVH2;Q13112;Q9Y5B9;Q2YD98;P32780;Q9NXR7;Q5XUX0;P23396;Q9BQ83;Q9BTP7;Q6UWZ7;Q96LA8;Q9UMS4;Q0VG06;P12956;Q9HB75;O96017;Q13620;Q5MJ70;Q96NY9}

17996

Pathogen[ P03410] interacts with 260 human

partners: {Q96RL1;Q96M02;P20749;Q96FW1;Q08945;P23025;P49959;P40692;Q9H981;P18887;P23246;P35244;Q9H040;Q8WTP8;Q96FI4;Q9UI95;Q9NXR7;Q96T76;Q99708;P35638;Q9HB75;P20585;Q96LA8;Q13889;Q9NRD1;Q8N3C0;Q9NVI1;Q96AY2;Q9H816;Q6PI98;Q52LR7;O75943;Q15014;Q9BQ15;Q9BSD3;Q92698;Q8IYD8;Q9NWV8;Q9BQ50;Q15233;A4GXA9;P01106;P07992;Q9Y5B9;O15315;Q99502;Q9NUS5;P41218;O96019;Q9UBT6;P21675;Q9BXW9;Q13620;Q9UQE7;Q14686;Q1ZZU3;P54277;O43542;Q8NB91;P24522;Q19AV6;Q53TQ3;Q14653;Q9UNA4;Q9BVW5;Q5H9I0;Q9P287;O60870;Q8WXE1;Q9NY61;Q9ULG1;Q9UBU8;Q9NS23;P49459;Q2TAK8;Q6ZYL4;Q9HAW4;P23396;O00213;O43299;P06746;Q92889;Q96S55;Q15004;Q13794;Q96Q83;P39748;Q6NVH7;Q9NSU2;Q9BTP7;P61088;Q96SD1;P43351;O95997;Q03468;Q9BQ83;Q9NXX6;Q5XUX0;P54725;P28715;Q8TAT5;Q6NS38;P78549;P0C1Z6;Q92466;O60216;P50613;Q01831;P25490;Q53HV7;Q96MF7;Q96MG7;O95243;Q7Z2E3;P50750;Q9ULC4;Q9UHJ9;Q7Z5Q5;Q9HCS7;Q9UGP5;Q9UBZ9;P12956;Q9UNE7;P24385;Q9UBZ4;O95551;Q99828;Q9Y6P5;P52701;Q9UM11;P38936;Q8IY92;O43502;Q969H0;O15287;Q9H9F9;Q9NPI8;Q6PJP8;P24941;Q99638;Q00597;O15527;Q9Y253;Q96AH0;P51587;Q13111;Q96NY9;Q13569;Q9P4R8;Q13112;Q2YD98;P16455;P62877;P19447;Q8IW19;P63146;Q14683;Q13156;Q9NUW8;P09874;Q8TC71;Q96017;O14757;O60671;P46937;P46100;Q9HB96;O75807;Q13469;Q6UWZ7;P41182;O60921;Q99504;Q16594;Q7Z2Z1;Q16531;Q13426;O15360;Q128

88;Q86W56;Q86WJ1;Q92547;P11388;Q13216;Q13888;P78543;Q9HA38;Q9NPD8;Q96EZ8;Q9BTA9;Q8N9B5;Q9UNS1;P27695;Q9NVH2;O00167;Q13619;Q9UMS4;Q8IY18;P13010;O43543;Q9Y5K5;Q9NWS1;Q86XK3;A8MT69;O15350;Q8N140;Q9UPV0;Q9UKK3;Q969S2;P27694;Q9BRQ6;P54278;Q8N0Z6;Q5MJ70;Q14676;P13051;P15927;Q5UIP0;Q9NP87;Q9UQ84;Q9C0B1;Q6NZ36;Q9Y2M0;Q9Y6K9;Q9NW38;Q92985;Q9Y2A0;Q96B01;O00255;P41208;Q68DK2;Q9C086;P12004;P32780;Q68E01;Q86YC2;Q96HA7;Q6ZW49;Q9P278;P29372;Q6P1K8;Q7LG56;Q9NUA8;Q92759;O60934;Q9NRY2;Q71UM5;Q9UIF7;Q0VG06;Q9UHC1;Q9H9Q4;P61077;Q66609;Q8N2Z9;Q7Z589;Q9BW66;Q8NBZ0;Q9NZJ0;P54727;Q6ZRQ5}

17997 Pathogen[ P14075] interacts with 207 human  
partners: {P43351;P13051;Q96MT8;A8MT69;Q6P4R8;Q7Z2E3;Q8NB91;O00213;Q9HB96;Q99504;P23246;Q92759;P12956;Q7Z2Z1;Q9NVI1;O15360;P21675;Q9BQ83;P24941;Q9UBZ9;Q14683;Q9UBU8;P23025;Q8WXE1;Q2TAK8;Q52LR7;Q5MJ70;Q9HB75;Q96Q83;Q15014;Q08945;P27695;Q8N140;Q68E01;Q9UM11;Q9C086;Q01831;Q9NWW8;Q86YC2;Q14686;P61088;Q6ZYL4;P0C1Z6;P49459;P50613;P41218;Q6ZW49;Q9NY61;Q9BQ15;Q9NPI8;O15527;Q53HV7;Q08050;Q96EZ8;P06746;Q13620;Q6ZRQ5;P35638;P50750;Q9UIF7;Q9Y2A0;O95997;O60671;Q9BTP7;Q13216;O00167;Q9H040;Q96FW1;Q9BW66;Q13111;Q9NXR7;P15927;Q9UI95;P61077;Q16594;P01106;Q9BVW5;Q6UWZ7;Q9NW38;Q8N2Z9;Q9NPD8;Q9Y2M0;Q03468;Q99638;O60870;O00255;Q9UPV0;Q13156;Q9H9Q4;Q9NWS1;Q68DK2;O96019;Q9HAW4;P46100;P35244;Q8NBZ0;Q19AV6;Q9Y253;Q14653;Q96HA7;Q53TQ3;Q96LA8;Q14676;Q13469;O96017;Q9UHC1;Q13889;O15350;Q6PI98;Q9UHJ9;Q2YD98;P78543;Q9Y5B9;Q9NVH2;Q96NY9;Q8IW19;Q9BTA9;P54727;O75807;Q9H816;P23396;Q16531;Q9UMS4;Q96AH0;Q13794;O43542;O15287;Q13426;P41208;P27694;Q9NXR7;Q15233;P32780;Q9Y6P5;Q8TC71;Q9BRQ6;O60921;Q9HCS7;Q9NRD1;P24522;Q96B01;P54725;Q9UNS1;O95243;P46937;Q96PY6;Q9H9F9;Q96AY2;Q12888;Q9H981;Q99502;Q5UIP0;P54278;Q9Y6K9;P24385;P63146;Q86W56;P13010;Q9P287;Q92985;Q0VG06;Q6NVH7;Q96S55;Q96MF7;Q13569;Q7Z589;Q92466;Q9NZJ0;Q00597;Q13112;Q1ZZU3;Q9BSD3;Q969H0;P29372;Q6PJP8;Q99708;Q92547;Q9ULC4;Q86XK3;Q8N9B5;Q96RL1;Q6P1K8;O60216;Q9P278;Q15004;Q9NRY2;Q9BXW9;Q8IY92;Q96MG7;O14757;Q5XUX0;Q9NUS5;Q9NUW8;Q06609;P09874;P62877;Q96T76;P20749;P18887;Q9Y5K5;A4GXA9;Q5H9I0;O43299;Q9UKK3;O95551;Q71UM5;Q13888}

17998 Pathogen[ P0C206] interacts with 289 human  
partners: {P27695;Q96HA7;Q9UNS1;Q9NUA8;O43542;Q13112;Q9Y253;P46937;Q8WXE1;O43502;Q9NPI8;Q68DK2;Q2YD98;O60216;Q9UMS4;P54278;Q9NS56;Q8N140;P62877;Q9NPD8;Q96Q83;Q96M02;Q19AV6;Q9Y2M0;P28715;P13010;P54725;Q6PCD5;Q96AY2;O15360;Q17RS7;O00167;Q8WV22;Q99828;Q68E01;Q13469;P49959;Q9UBU8;Q99504;Q9Y2A0;Q9BQ15;Q5UIP0;Q9Y6K9;Q9UQ84;P24522;Q9NSU2;Q8TC71;Q99708;P50750;Q9H981;Q8IYW5;O96017;Q9Y5T5;Q9UBT6;Q9BTP7;Q9UHJ9;O15527;P09874;Q6ZW49;Q86YC2;P25490;O43313;Q9UNA4;Q13156;P52701;P51587;Q15233;P41182;Q6NS38;O75807;Q7Z5Q5;Q6NZ36;Q13111;Q6PJP8;O60934;Q9HB96;Q8IYD8;O00255;O95997;P40692;O60870;P46100;Q6PI98;Q9NUW8;Q96LA8;Q9P278;Q03468;Q52LR7;Q96PY6;Q969H0;P06746;Q9UHC1;Q96MG7;Q9NVH2;Q9Y5B9;Q9NS91;Q9UPV0;Q96SD1;Q16531;Q7LG56;Q8N0Z6;Q9UBZ4;P98170;Q93009;Q9H816;Q9P287;Q8NBZ0;Q86XK3;P41218;Q15014;Q0VG06;Q14669;Q13216;Q8NB91;Q13620;Q9BW66;Q8N9B5;O43299;A4GXA9;Q9UGP5;Q8TDB6;O75943;Q53HV7;Q9NRY2;Q9NVI1;Q9Y5K5;P07992;P19447;Q96EZ8;Q9C086;Q6P1K8;Q99638;P23246;O00213;P54277;P43351;O96019;Q13619;Q13569;Q9NRD1;P0C1Z6;P61088;Q96NY9;Q12888;Q86W56;Q14164;P49917;Q9H9Q4;O15516;Q7Z333;Q13888;O15287;P50613;P23396;Q9BVW5;Q9UKK3;Q9UNE7;Q9ULG1;P49459;Q13426;Q14683;Q92985;Q96FW1;Q14676;Q96T88;O15315;Q9NWW8;Q92889;Q7Z589;Q8TAT5;Q01831;Q71UM5;Q14686;Q99728;Q92759;O95551;P54727;P49916;P38936;Q9UM11;Q96S55;O60921;Q9HA38;Q96MF7;P42574;Q9NP87;Q96FI4;Q9BTA9;Q9UBZ9;P55072;Q9NZJ0;Q9HB75;P32780;Q96T76;Q08050;Q969S2;Q9H9F9;Q99502;P20749;Q13889;Q9UBL3;Q86WJ1;Q6ZRQ5;P41208;O60671;O15350;Q7Z2Z1;O00597;O43543;Q6UWZ7;Q5H9I0;Q66609;P27694;P20585;P11388;P15927;Q9ULC4;P01106;Q8N2Z9;Q5XUX0;Q6ZYL4;Q8IW19;P61077;Q9Y6P5;Q92466;Q96RL1;Q7Z6Z7;Q2TAK8;Q6NVH7;Q9BXW9;P39748;P35244;Q96MT8;Q96B01;Q9NS23;Q9BQ83;Q96B02;Q92547;Q9BRQ6;Q9H040;O76064;P13051;Q8IY18;P12956;Q8IY92;Q9HAW4;Q9NY61;Q15004;Q9HCS7;P24941;Q08945;Q1ZZU3;O95071;P16455;Q7Z2E3;Q6P4R8;P29372;O95714;O95243;P23025;Q9UIF7;Q9B63;Q5MJ70;O95677;Q9UI95;P35638;Q9NXK6;P18887;Q8N3C0;Q92698;Q9BSD3;A8MT69;Q9NW38;Q9UIG0;P21675;Q53TQ3;Q96AH0;Q9NXR7;Q13794;Q9NUS5;P63146;P78543;P24385;Q16594;Q14653;P12004;Q9NWS1;P78549}

17999 Pathogen[ P03363] interacts with 247 human  
partners: {Q9BSD3;Q13112;Q92547;Q9H816;Q14653;Q9BQ50;P12956;Q9NW38;P18887;Q9BX63;Q15233;Q9NVI1;Q8TDB6;Q8IW19;P23396;Q92985;O15287;P23246;P27694;Q6ZYL4;Q9HAW4;Q9Y5K5;Q7Z333;O15527;Q19AV6;P54727;O15360;P49459;Q9NUA8;Q9H981;Q9ULG1;Q6P1K8;Q9BXW9;Q00597;Q9NXR7;Q96MT8;Q7Z2Z1;Q9BTP7;Q96LA8;Q9Y2M0;P13010;Q96RL1;Q15291;Q9HCS7;Q01831;Q13888;O00213;Q6UWZ7;P41218;Q15014;Q13794;Q13111;P32780;Q16531;Q92759;Q9UHC1;Q96AH0;Q9Y253;P25490;Q2YD98;Q96BT7;Q9UBL3;Q8N140;Q52LR7;O60671;Q7Z589;Q96FI4;Q92889;P23025;P78543;P13051;Q9Y6K9;Q8N2Z9;Q1ZZU3;Q9NUS5;Q96M02;P24941;Q8IYW5;P35244;P63146;Q99828;P41208;Q68DK2;Q5H9I0;Q14686;P15927;P01106;Q9UM11;P46100;Q9C086;O96017;Q7Z6Z7;P61088;P29372;Q9H9F9;Q6NZ36;O43524;P20749;Q13619;Q9HB75;Q9UBU8;Q96Q83;Q99708;Q08050;P20585;Q14669;Q9NY61;Q8TC71;P46937;Q13426;Q86XK3;O96019;Q8NB91;Q96T76;P62877;Q9Y5B9;Q9BQ15;Q13156;P54278;Q9NWW8;Q9BW66;Q9UKK3;Q7Z2E3;Q9BVW5;Q96JY0;P06746;Q6PCD5;Q9UNE7;P0C1Z6;Q7Z5Q5;O60870;Q15004;Q8IYD8;Q5MJ70;P54277;Q99504;Q9UNS1;Q9H040;Q9NUW8;Q9BRQ6;Q5UIP0;Q13620;P98170;Q9BQ83;P24522;Q9UI95;Q96AY2;P35638;Q969H0;Q9UIF7;Q9H9Q4;Q9Y6P5;O95243;Q9NVH2;Q96EZ8;O75807;Q9NP87;O43542;Q9Y2A0;O95071;Q8N0Z6;Q6PJP8;Q8IY92;Q96S55;P54725;Q9NS23;Q9UPV0;P24385;Q13469;Q99638;P21675;Q2TAK8;Q92466;Q13569;Q71UM5;P43351;Q9NXR7;Q9NPD8;O95714;Q03468;P50750;O00167;Q08945;O60921;O95551;Q96T88;Q86W56;O75771;Q8WV22;Q06609;Q9HB96;Q9ULC4;Q6NVH7;P61077;O95997;Q9UNA4;P09874;Q96MG7;Q99728;Q9P278;Q9UMS4;Q13216;Q9NPI8;Q53TQ3;Q6ZW49;Q68E01;Q0VG06;A4GXA9;Q14676;Q96NY9;Q5XUX0;Q86WJ1;Q9NWS1;Q9UBZ9;Q9NZJ0;O75943;Q9NS91;Q9NRD1;Q9P287;Q8IY18;Q96HA7;Q5T890;Q9BTA9;Q969S2;Q96MF7;Q8NBZ0;Q14683;Q8N9B5;Q6ZRQ5;Q53HV7;Q6P4R8;Q96FW1;Q9NRY2;Q12888;Q92698;Q96B01;Q8WXE1;A8MT69;Q86YC2;Q8N3C0;O60216;O43502;O43299;Q16594;Q6PI98;O15315;O14757}

18000 [Cluster 1637]GO:0070933+P biological\_process [name] histone H4 deacetylation [def]  
"The modification of histone H4 by the removal of one or more acetyl groups." [GOC



18001 Pathogen[ Q2Q067] interacts with 14 human partners: {P56524;Q9BY41;Q9UKV0;Q13547;O15379;Q9UKL0;Q9UQL6;Q969S8;Q96DB2;Q92769;Q13127;Q9H4L7;Q8WUI4;Q9UIF9}

18002 Pathogen[ P0C214] interacts with 14 human partners: {Q13547;Q969S8;Q96DB2;P56524;Q9H4L7;Q9UIF9;Q9UKL0;Q92769;Q9UKV0;O15379;Q13127;Q8WUI4;Q9UQL6;Q9BY41}

18003 Pathogen[ P03346] interacts with 14 human partners: {Q969S8;Q9UKL0;Q96DB2;O15379;P56524;Q92769;Q13547;Q9BY41;Q9UIF9;Q8WUI4;Q9UKV0;Q9UQL6;Q13127;Q9H4L7}

18004 Pathogen[ Q85601] interacts with 14 human partners: {Q969S8;Q9UKV0;Q96DB2;Q13127;Q9BY41;Q9UQL6;Q9UIF9;Q92769;Q9H4L7;P56524;O15379;Q13547;Q8WUI4;Q9UKL0}

18005 Pathogen[ P14079] interacts with 13 human partners: {Q9UQL6;O15379;Q96DB2;Q9H4L7;Q969S8;Q8WUI4;Q9UKV0;Q92769;Q9UIF9;Q9BY41;Q9UKL0;P56524;Q13127}

18006 Pathogen[ P03383] interacts with 12 human partners: {Q9UQL6;Q92769;O15379;Q9UIF9;Q13547;Q9BY41;Q9UKL0;Q9UKV0;P56524;Q8WUI4;Q969S8;Q13127}

18007 Pathogen[ P03410] interacts with 14 human partners: {Q9UKV0;Q9H4L7;Q9BY41;Q8WUI4;Q9UQL6;Q13127;Q969S8;Q92769;O15379;P56524;Q13547;Q9UIF9;Q9UKL0;Q96DB2}

18008 Pathogen[ P14075] interacts with 12 human partners: {Q9BY41;Q969S8;Q9UKL0;P56524;Q9UKV0;Q13547;Q92769;Q9UIF9;O15379;Q13127;Q9UQL6;Q8WUI4}

18009 Pathogen[ P0C206] interacts with 14 human partners: {Q9H4L7;Q92769;Q13127;Q9UKL0;Q96DB2;Q9UKV0;Q13547;O15379;Q8WUI4;Q9UIF9;Q9BY41;P56524;Q969S8;Q9UQL6}

18010 Pathogen[ P03363] interacts with 11 human partners: {Q9BY41;Q9H4L7;O15379;Q969S8;Q9UQL6;Q13127;Q9UIF9;Q9UKV0;Q13547;Q8WUI4;Q9UKL0}

18011 [Cluster 1638]GO:0042445+P biological\_process [name]hormone metabolic process [def] "The chemical reactions and pathways involving any hormone, naturally occurring substances secreted by specialized cells that affects the metabolism or behavior of other cells possessing functional receptors for the hormone." [CHEBI

18012 Pathogen[ Q2Q067] interacts with 1 human partners: {Q15424}

18013 Pathogen[ P0C214] interacts with 1 human partners: {Q15424}

18014 Pathogen[ P03346] interacts with 1 human partners: {Q15424}

18015 Pathogen[ Q85601] interacts with 1 human partners: {Q15424}

18016 Pathogen[ P14079] interacts with 1 human partners: {Q15424}

18017 Pathogen[ P03383] interacts with 1 human partners: {Q15424}

18018 Pathogen[ P03410] interacts with 1 human partners: {Q15424}

18019 Pathogen[ P14075] interacts with 1 human partners: {Q15424}

18020 Pathogen[ P0C206] interacts with 1 human partners: {Q15424}

18021 Pathogen[ P03363] interacts with 1 human partners: {Q15424}

18022 [Cluster 1639]GO:0007088+P biological\_process [name] regulation of mitosis [def] "Any process that modulates the frequency, rate or extent of mitosis." [GOC

18023 Pathogen[ Q2Q067] interacts with 9 human partners: {P18754;O14744;Q6PGQ7;P30307;Q96Q89;Q13526;P60953;Q13042;Q9Y468}

18024 Pathogen[ P0C214] interacts with 9 human partners: {P30307;Q13526;P60953;Q9Y468;Q96Q89;Q96GD0;P18754;Q6PGQ7;Q13042}

18025 Pathogen[ P03346] interacts with 9 human partners: {O14744;P60953;P18754;Q13526;Q13042;Q96Q89;Q9Y468;Q6PGQ7;P30307}

18026 Pathogen[ Q85601] interacts with 10 human partners: {Q9Y468;O14744;Q96Q89;P30307;Q13042;Q13526;Q6PGQ7;P60953;P18754;P51955}

18027 Pathogen[ P14079] interacts with 11 human partners: {Q14004;Q6PGQ7;P30307;Q9Y468;Q96GD0;O14744;P51955;Q96Q89;Q13042;Q13526;P18754}

18028 Pathogen[ P03383] interacts with 9 human partners: {P30307;P60953;Q13042;O14744;P18754;Q6PGQ7;Q96Q89;Q13526;Q9Y468}

18029 Pathogen[ P03410] interacts with 10 human partners: {Q96Q89;Q13526;Q9Y468;Q96GD0;Q13042;Q6PGQ7;P60953;O14744;P18754;P30307}

18030 Pathogen[ P14075] interacts with 9 human partners: {P60953;Q13042;Q9Y468;O14744;Q13526;P18754;Q96Q89;P30307;Q6PGQ7}

18031 Pathogen[ P0C206] interacts with 12 human partners: {Q9Y468;Q96Q89;Q13526;P30307;P18754;P51955;O14744;Q6PGQ7;P60953;Q96GD0;Q13042;Q99640}

18032 Pathogen[ P03363] interacts with 9 human partners: {O14744;Q13042;Q9Y468;Q6PGQ7;Q13526;Q96Q89;P18754;P30307;P60953}

18033 [Cluster 1640]GO:0022618+P biological\_process [name] ribonucleoprotein complex assembly [def] "The aggregation, arrangement and bonding together of proteins and RNA molecules to form a ribonucleoprotein complex." [GOC

18034 Pathogen[ Q2Q067] interacts with 1 human partners: {Q6PI26}

18035 Pathogen[ P0C214] interacts with 1 human partners: {Q6PI26}

18036 Pathogen[ P03346] interacts with 1 human partners: {Q6PI26}

18037 Pathogen[ Q85601] interacts with 1 human partners: {Q6PI26}

18038 Pathogen[ P14079] interacts with 1 human partners: {Q6PI26}

18039 Pathogen[ P03383] interacts with 1 human partners:{Q6PI26}  
18040 Pathogen[ P03410] interacts with 1 human partners:{Q6PI26}  
18041 Pathogen[ P14075] interacts with 1 human partners:{Q6PI26}  
18042 Pathogen[ P0C206] interacts with 1 human partners:{Q6PI26}  
18043 Pathogen[ P03363] interacts with 1 human partners:{Q6PI26}  
18044 [Cluster 1641]GO:0001890+P biological\_process [name] placenta development [def] "The process whose specific outcome is the progression of the placenta over time, from its formation to the mature structure. The placenta is an organ of metabolic interchange between fetus and mother, partly of embryonic origin and partly of maternal origin." [GOC  
18045 Pathogen[ Q2Q067] interacts with 8 human partners:{P08238;Q99966;P41002;O00321;P20823;Q86U86;Q9NR09;Q13490}  
18046 Pathogen[ P0C214] interacts with 6 human partners:{Q13490;O00321;P41002;Q99966;Q86U86;Q9NR09}  
18047 Pathogen[ P03346] interacts with 12 human partners:{Q99966;Q99626;O00321;Q86U86;P20823;P41002;O60479;O14627;Q99929;Q9NR09;Q13490;P08238}  
18048 Pathogen[ Q85601] interacts with 8 human partners:{Q13490;Q99966;P41002;P08238;Q9NR09;Q86U86;P20823;O00321}  
18049 Pathogen[ P14079] interacts with 7 human partners:{O00321;Q86U86;Q99966;Q9NR09;P08238;P41002;Q13490}  
18050 Pathogen[ P03383] interacts with 6 human partners:{Q86U86;P41002;Q13490;O00321;Q9NR09;P08238}  
18051 Pathogen[ P03410] interacts with 7 human partners:{P08238;Q86U86;Q13490;O00321;P41002;Q9NR09;Q99966}  
18052 Pathogen[ P14075] interacts with 6 human partners:{P08238;Q13490;Q86U86;Q9NR09;P41002;O00321}  
18053 Pathogen[ P0C206] interacts with 8 human partners:{Q86U86;O00321;P08238;Q9NR09;P20823;Q99966;P41002;Q13490}  
18054 Pathogen[ P03363] interacts with 10 human partners:{Q13490;Q99626;Q99929;O60479;P41002;O00321;Q9NR09;Q86U86;P08238;O14627}  
18055 [Cluster 1642]GO:0043433+P biological\_process [name] negative regulation of sequence-specific DNA binding transcription factor activity [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the activity of a transcription factor, any factor involved in the initiation or regulation of transcription." [GOC  
18056 Pathogen[ Q2Q067] interacts with 23 human partners:{P04156;P56524;P06400;O14503;O96004;Q9NVW2;P41134;P35638;P63165;O75381;O43593;Q9Y297;Q92769;O00255;O15105;Q9NSA3;Q15466;Q9GZT9;Q5VWG9;P23497;Q9UMX1;P40424;P53567}  
18057 Pathogen[ P0C214] interacts with 24 human partners:{P40424;P53567;P56524;O75381;Q9Y297;O00308;Q5VWG9;O14503;Q9NSA3;P41134;P63165;Q9NVW2;Q92769;O15105;Q9GZT9;O43593;P23497;P04156;O96004;Q9UMX1;P06400;O00255;P35638;Q15466}  
18058 Pathogen[ P03346] interacts with 27 human partners:{Q9BZE0;P35638;Q02535;P06400;Q15466;P56524;O15105;O14503;O75381;O43593;O96004;P51843;Q9NSA3;O00255;P41134;Q92769;Q9GZT9;P63165;P04156;P40424;P23497;P53567;Q5VWG9;Q9Y297;Q9UMX1;Q9NVW2;O00308}  
18059 Pathogen[ Q85601] interacts with 21 human partners:{P41134;Q15466;P06400;P53567;O14503;O96004;Q5VWG9;P40424;Q9GZT9;Q92769;O00255;P63165;P56524;P04156;O15105;O43593;O75381;Q9NSA3;Q9UMX1;Q9NVW2;P35638}  
18060 Pathogen[ P14079] interacts with 20 human partners:{Q9GZT9;O43187;P53567;P04156;Q9UMX1;O96004;P63165;P23497;Q92769;P35638;P41134;O75381;O14503;Q15466;P56524;O15105;O00255;O43593;Q9BZE0;Q5VWG9}  
18061 Pathogen[ P03383] interacts with 18 human partners:{P04156;P40424;P35638;O14503;P06400;Q5VWG9;O96004;O15105;Q9NSA3;Q92769;Q15466;O75381;P63165;O00255;P23497;P56524;P53567;Q9UMX1}  
18062 Pathogen[ P03410] interacts with 20 human partners:{P35638;Q5VWG9;O96004;Q9NSA3;P63165;P53567;O43187;P41134;O75381;P06400;Q9GZT9;Q92769;P56524;P04156;Q15466;O15105;O00255;P40424;Q9UMX1;O43593}  
18063 Pathogen[ P14075] interacts with 19 human partners:{P63165;P23497;Q9GZT9;P40424;P53567;P56524;P04156;P35638;Q5VWG9;O14503;O75381;O96004;O00255;Q92769;Q9NSA3;O15105;P06400;Q15466;Q9UMX1}  
18064 Pathogen[ P0C206] interacts with 22 human partners:{P53567;Q92769;Q9BZE0;Q15466;Q9NSA3;Q9NVW2;O00308;P04156;Q9GZT9;Q9UMX1;O75381;O00255;P40424;O96004;P41134;O15105;Q5VWG9;P63165;P56524;O43593;P35638;P06400}  
18065 Pathogen[ P03363] interacts with 20 human partners:{Q15466;P53567;Q9UMX1;O15105;P04156;P23497;P06400;O43593;Q9NSA3;P63165;O75381;P41134;O96004;P35638;O00308;P40424;Q9NVW2;Q5VWG9;Q9BZE0;O14503}  
18066 [Cluster 1643]GO:0009750+P biological\_process [name] response to fructose stimulus [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a fructose stimulus." [GOC  
18067 Pathogen[ Q2Q067] interacts with 3 human partners:{P05062;P27986;Q14397}  
18068 Pathogen[ P0C214] interacts with 3 human partners:{P05062;Q14397;P27986}  
18069 Pathogen[ P03346] interacts with 3 human partners:{Q14397;P05062;P27986}

18070 Pathogen[ Q85601] interacts with 3 human partners:{P05062;P27986;Q14397}  
18071 Pathogen[ P14079] interacts with 1 human partners:{Q14397}  
18072 Pathogen[ P03383] interacts with 2 human partners:{P27986;Q14397}  
18073 Pathogen[ P03410] interacts with 3 human partners:{Q14397;P27986;P05062}  
18074 Pathogen[ P14075] interacts with 2 human partners:{P27986;Q14397}  
18075 Pathogen[ P0C206] interacts with 3 human partners:{P05062;P27986;Q14397}  
18076 Pathogen[ P03363] interacts with 2 human partners:{Q14397;P27986}  
18077 [Cluster 1644]GO:0045446+P biological\_process [name] endothelial cell differentiation  
[def] "The process in which a mesodermal angioblast acquires specialized features of an  
endothelial cell, a thin flattened cell. A layer of such cells lines the inside surfaces  
of body cavities, blood vessels, and lymph vessels, making up the endothelium." [CL  
18078 Pathogen[ Q2Q067] interacts with 2 human partners:{P09067;O60869}  
18079 Pathogen[ P0C214] interacts with 1 human partners:{O60869}  
18080 Pathogen[ P03346] interacts with 2 human partners:{O60869;P09067}  
18081 Pathogen[ Q85601] interacts with 1 human partners:{O60869}  
18082 Pathogen[ P14079] interacts with 1 human partners:{O60869}  
18083 Pathogen[ P03383] interacts with 1 human partners:{O60869}  
18084 Pathogen[ P03410] interacts with 1 human partners:{O60869}  
18085 Pathogen[ P14075] interacts with 1 human partners:{O60869}  
18086 Pathogen[ P0C206] interacts with 2 human partners:{P09067;O60869}  
18087 Pathogen[ P03363] interacts with 2 human partners:{P09067;O60869}  
18088 [Cluster 1645]GO:0043410+P biological\_process [name] positive regulation of MAPKKK  
cascade [def] "Any process that activates or increases the frequency, rate or extent of  
signal transduction mediated by the MAPK cascade." [GOC  
18089 Pathogen[ Q2Q067] interacts with 6 human  
partners:{Q12982;Q8IX03;Q969S3;P60953;O60504;Q9HAT8}  
18090 Pathogen[ P0C214] interacts with 6 human  
partners:{Q8IX03;Q969S3;P60953;Q9HAT8;Q12982;O60504}  
18091 Pathogen[ P03346] interacts with 7 human  
partners:{Q969S3;Q8IX03;P60953;Q9HAT8;Q6Q0C0;O60504;Q12982}  
18092 Pathogen[ Q85601] interacts with 7 human  
partners:{Q12982;Q9HAT8;Q969S3;P60953;O60504;Q6Q0C0;Q8IX03}  
18093 Pathogen[ P14079] interacts with 7 human  
partners:{Q9HAT8;Q12982;P20809;O60504;Q8IX03;Q6IAA8;Q969S3}  
18094 Pathogen[ P03383] interacts with 5 human  
partners:{P60953;Q8IX03;O60504;Q969S3;Q9HAT8}  
18095 Pathogen[ P03410] interacts with 8 human  
partners:{Q8IX03;Q969S3;P20809;Q9HAT8;O60504;Q6IAA8;P60953;Q12982}  
18096 Pathogen[ P14075] interacts with 6 human  
partners:{P60953;Q969S3;Q9HAT8;P20809;O60504;Q8IX03}  
18097 Pathogen[ P0C206] interacts with 8 human  
partners:{Q12982;O60504;Q9HAT8;Q969S3;P20809;P60953;Q6Q0C0;Q8IX03}  
18098 Pathogen[ P03363] interacts with 6 human  
partners:{Q13480;Q9HAT8;Q8IX03;P60953;Q969S3;Q12982}  
18099 [Cluster 1646]GO:0001764+P biological\_process [name] neuron migration [def] "The  
characteristic movement of an immature neuron from germinal zones to specific positions  
where they will reside as they mature." [GOC  
18100 Pathogen[ Q2Q067] interacts with 14 human  
partners:{O00213;P62258;P10589;Q8WXU2;Q9BZE3;Q9NXR1;P11831;Q99608;O43711;Q9UPW6;Q9NR  
I5;Q8IZT6;Q9NY43;Q95613}  
18101 Pathogen[ P0C214] interacts with 12 human  
partners:{O00213;Q9NRI5;Q9BZE3;P11831;Q99608;P35580;Q8WXU2;Q9UPW6;Q95613;Q9NXR1;Q8IZ  
T6;Q9NY43}  
18102 Pathogen[ P03346] interacts with 20 human  
partners:{Q9NRI5;O00213;P50219;Q9UPW6;Q9HD90;P11831;O43711;Q9BZE3;P62258;Q92858;Q9NX  
R1;Q96QS3;Q8WXU2;Q99608;P50542;Q8IZT6;Q95613;Q9NY43;Q9H2A3;P10589}  
18103 Pathogen[ Q85601] interacts with 16 human  
partners:{O00213;P11831;Q9UPW6;Q9BZE3;Q8IZT6;Q99608;Q8WXU2;P62258;O43711;Q9NRI5;P355  
80;Q95613;Q9NXR1;Q9GZM8;Q9NY43;P10589}  
18104 Pathogen[ P14079] interacts with 18 human  
partners:{Q9UPW6;Q9NRI5;O00213;Q9NY43;Q99608;Q8WXU2;Q15078;P50542;Q9BZE3;Q9NX09;O437  
11;P62258;Q9GZM8;Q95613;P10589;Q9NXR1;Q8IZT6;P10636}  
18105 Pathogen[ P03383] interacts with 11 human  
partners:{O00213;P11831;Q9UPW6;Q9NRI5;Q99608;O43711;P35580;Q9NY43;Q95613;Q8WXU2;P622  
58}  
18106 Pathogen[ P03410] interacts with 20 human  
partners:{P62258;P11831;Q8WXU2;Q9NXR1;Q9GZM8;Q99608;Q9BZE3;O00213;Q9UPW6;Q8IZT6;Q9BV  
A1;P10636;P35580;Q9NRI5;P50542;P10589;O43711;Q9NY43;Q95613;Q9NX09}  
18107 Pathogen[ P14075] interacts with 10 human  
partners:{O00213;Q99608;P11831;Q9NRI5;Q9NY43;Q9UPW6;O43711;Q95613;Q8WXU2;P62258}  
18108 Pathogen[ P0C206] interacts with 19 human  
partners:{O43711;Q9NY43;Q8IZT6;P50542;P10636;Q9GZM8;P10589;Q9BZE3;O00213;Q95613;P622  
58;Q9UPW6;Q9NRI5;Q99608;P11831;Q9NXR1;Q8WXU2;P35580;Q9H2A3}  
18109 Pathogen[ P03363] interacts with 17 human  
partners:{P62258;O00213;Q95613;Q9BZE3;Q99608;P11831;Q8WXU2;O43711;Q9NRI5;Q96QS3;Q9NY  
43;Q9NXR1;P50219;Q9UPW6;P10589;Q8IZT6;Q9H2A3}

18110 [Cluster 1647]GO:0046328+P biological\_process [name] regulation of JNK cascade  
[def] "Any process that modulates the frequency, rate or extent of signal transduction mediated by the JNK cascade." [GOC

18111 Pathogen[ Q2Q067] interacts with 4 human partners:{Q7Z6J0;Q12933;Q92905;Q9UQF2}  
18112 Pathogen[ P0C214] interacts with 4 human partners:{Q7Z6J0;Q92905;Q12933;Q9UQF2}  
18113 Pathogen[ P03346] interacts with 3 human partners:{Q7Z6J0;Q92905;Q9UQF2}  
18114 Pathogen[ Q85601] interacts with 4 human partners:{Q9UQF2;Q7Z6J0;Q12933;Q92905}  
18115 Pathogen[ P14079] interacts with 4 human partners:{P31751;Q9UQF2;Q92905;Q12933}  
18116 Pathogen[ P03383] interacts with 3 human partners:{Q92905;Q9UQF2;Q12933}  
18117 Pathogen[ P03410] interacts with 4 human partners:{Q92905;Q7Z6J0;Q12933;Q9UQF2}  
18118 Pathogen[ P14075] interacts with 3 human partners:{Q12933;Q92905;Q9UQF2}  
18119 Pathogen[ P0C206] interacts with 4 human partners:{Q7Z6J0;Q12933;Q9UQF2;Q92905}  
18120 Pathogen[ P03363] interacts with 4 human partners:{Q9UQF2;Q12933;Q7Z6J0;Q92905}

18121 [Cluster 1648]GO:0042512+P biological\_process [name] negative regulation of tyrosine phosphorylation of Stat1 protein [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the introduction of a phosphate group to a tyrosine residue of a Stat1 protein." [GOC

18122 Pathogen[ Q2Q067] interacts with 1 human partners:{P10914}  
18123 Pathogen[ P0C214] interacts with 1 human partners:{P10914}  
18124 Pathogen[ P03346] interacts with 1 human partners:{P10914}  
18125 Pathogen[ Q85601] interacts with 1 human partners:{P10914}  
18126 Pathogen[ P14079] interacts with 1 human partners:{P10914}  
18127 Pathogen[ P03383] interacts with 1 human partners:{P10914}  
18128 Pathogen[ P03410] interacts with 1 human partners:{P10914}  
18129 Pathogen[ P14075] interacts with 1 human partners:{P10914}  
18130 Pathogen[ P0C206] interacts with 1 human partners:{P10914}  
18131 Pathogen[ P03363] interacts with 1 human partners:{P10914}

18132 [Cluster 1649]GO:0042789+P biological\_process [name] mRNA transcription from RNA polymerase II promoter [def] "The cellular synthesis of messenger RNA (mRNA) from a DNA template by RNA polymerase II, originating at an RNA polymerase II promoter." [GOC

18133 Pathogen[ Q2Q067] interacts with 5 human partners:{P27540;P35638;P11831;P25791;Q01860}  
18134 Pathogen[ P0C214] interacts with 5 human partners:{P11831;P25791;P27540;Q01860;P35638}  
18135 Pathogen[ P03346] interacts with 6 human partners:{P35638;P11831;P15173;P27540;Q01860;P25791}  
18136 Pathogen[ Q85601] interacts with 5 human partners:{P11831;P27540;P25791;Q01860;P35638}  
18137 Pathogen[ P14079] interacts with 4 human partners:{Q01860;P25791;P27540;P35638}  
18138 Pathogen[ P03383] interacts with 5 human partners:{P11831;P27540;P35638;Q01860;P25791}  
18139 Pathogen[ P03410] interacts with 5 human partners:{P11831;P35638;Q01860;P25791;P27540}  
18140 Pathogen[ P14075] interacts with 5 human partners:{P11831;Q01860;P35638;P27540;P25791}  
18141 Pathogen[ P0C206] interacts with 5 human partners:{Q01860;P25791;P11831;P27540;P35638}  
18142 Pathogen[ P03363] interacts with 5 human partners:{P27540;P25791;P11831;P35638;Q01860}

18143 [Cluster 1650]GO:0030502+P biological\_process [name] negative regulation of bone mineralization [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of bone mineralization." [GOC

18144 Pathogen[ Q2Q067] interacts with 3 human partners:{P15976;Q6W2J9;Q16621}  
18145 Pathogen[ P0C214] interacts with 3 human partners:{Q16621;Q6W2J9;P10124}  
18146 Pathogen[ P03346] interacts with 3 human partners:{Q16621;P15976;Q6W2J9}  
18147 Pathogen[ Q85601] interacts with 3 human partners:{P15976;Q16621;Q6W2J9}  
18148 Pathogen[ P14079] interacts with 6 human partners:{P02808;P15976;Q6W2J9;Q9NQ76;P10124;Q16621}  
18149 Pathogen[ P03383] interacts with 3 human partners:{Q6W2J9;Q16621;P10124}  
18150 Pathogen[ P03410] interacts with 6 human partners:{P02808;Q6W2J9;P10124;Q16621;Q9NQ76;P15976}  
18151 Pathogen[ P14075] interacts with 4 human partners:{Q6W2J9;P10124;Q16621;P02808}  
18152 Pathogen[ P0C206] interacts with 5 human partners:{Q6W2J9;P15976;P02808;Q16621;P10124}  
18153 Pathogen[ P03363] interacts with 3 human partners:{P02808;Q16621;Q6W2J9}

18154 [Cluster 1651]GO:0050770+P biological\_process [name] regulation of axonogenesis [def] "Any process that modulates the frequency, rate or extent of axonogenesis, the generation of an axon, the long process of a neuron." [GOC

18155 Pathogen[ Q2Q067] interacts with 2 human partners:{P20265;P61586}  
18156 Pathogen[ P0C214] interacts with 3 human partners:{P61586;P52565;P20265}  
18157 Pathogen[ P03346] interacts with 3 human partners:{P52565;P20265;P61586}  
18158 Pathogen[ Q85601] interacts with 3 human partners:{P52565;P61586;P20265}  
18159 Pathogen[ P14079] interacts with 3 human partners:{P52565;P20265;P61586}  
18160 Pathogen[ P03383] interacts with 2 human partners:{P61586;P20265}  
18161 Pathogen[ P03410] interacts with 4 human partners:{P61586;Q9BZR6;P20265;P52565}  
18162 Pathogen[ P14075] interacts with 2 human partners:{P20265;P61586}

18163 Pathogen[ POC206] interacts with 3 human partners:{P52565;P61586;P20265}  
18164 Pathogen[ POC363] interacts with 2 human partners:{P52565;P20265}  
18165 [Cluster 1652]GO:0006891+P biological\_process [name] intra-Golgi vesicle-mediated transport [def] "The directed movement of substances within the Golgi, mediated by small transport vesicles. These either fuse with the cis-Golgi or with each other to form the membrane stacks known as the cis-Golgi reticulum (network)." [ISBN  
18166 Pathogen[ Q2Q067] interacts with 14 human partners:{Q99747;O14579;Q9UP83;O14662;Q08378;P61923;P60520;Q9UBF2;Q14746;Q96JB2;P54920;P53618;P35606;Q8WTW3}  
18167 Pathogen[ POC214] interacts with 13 human partners:{P60520;P61923;Q14746;Q99747;O14579;P53618;P35606;P54920;Q08378;Q9UBF2;Q9UP83;Q96JB2;Q8WTW3}  
18168 Pathogen[ POC346] interacts with 15 human partners:{Q14746;Q9UP83;Q96JB2;P60520;Q8WTW3;P53618;Q08378;O14579;Q9Y2V7;Q9UBF2;P54920;P61923;P35606;O14662;Q99747}  
18169 Pathogen[ Q85601] interacts with 14 human partners:{P54920;Q14746;O14579;Q9UP83;Q96JB2;P61923;Q08378;Q8WTW3;Q9UBF2;P53618;P60520;P35606;O14662;Q99747}  
18170 Pathogen[ P14079] interacts with 14 human partners:{Q14746;P61923;P35606;Q08378;Q99747;Q9Y2V7;P60520;Q8WTW3;Q9UBF2;Q9UP83;O14662;O14579;Q96JB2;P54920}  
18171 Pathogen[ POC383] interacts with 9 human partners:{Q14746;O14579;Q9UP83;P53618;P54920;Q96JB2;Q8WTW3;Q99747;Q9UBF2}  
18172 Pathogen[ POC3410] interacts with 16 human partners:{Q96JB2;Q9UP83;Q9Y2V7;P60520;P35606;Q08378;O14662;O14579;O95249;P53618;P61923;Q8WTW3;Q14746;Q99747;Q9UBF2;P54920}  
18173 Pathogen[ P14075] interacts with 9 human partners:{Q14746;Q96JB2;Q9UBF2;Q99747;P54920;Q9UP83;P53618;Q8WTW3;O14579}  
18174 Pathogen[ POC206] interacts with 15 human partners:{O14662;O14579;Q9Y2V7;P53618;P54920;Q96JB2;Q14746;Q9UP83;Q8WTW3;P35606;Q08378;P60520;Q99747;Q9UBF2;P61923}  
18175 Pathogen[ POC363] interacts with 14 human partners:{Q9UP83;P54920;O14579;P53618;P60520;P61923;Q14746;Q08378;Q8WTW3;P35606;O14662;Q9UBF2;Q99747;Q96JB2}  
18176 [Cluster 1653]GO:0035855+P biological\_process [name] megakaryocyte development [def] "The process whose specific outcome is the progression of a megakaryocyte cell over time, from its formation to the mature structure. Megakaryocyte development does not include the steps involved in committing a cell to a megakaryocyte fate. A megakaryocyte is a giant cell 50 to 100 micron in diameter, with a greatly lobulated nucleus, found in the bone marrow." [CL  
18177 Pathogen[ Q2Q067] interacts with 2 human partners:{P11831;Q8IX07}  
18178 Pathogen[ POC214] interacts with 2 human partners:{P11831;Q8IX07}  
18179 Pathogen[ POC346] interacts with 3 human partners:{P11831;P17542;Q8IX07}  
18180 Pathogen[ Q85601] interacts with 2 human partners:{P11831;Q8IX07}  
18181 Pathogen[ P14079] interacts with 1 human partners:{Q8IX07}  
18182 Pathogen[ POC383] interacts with 1 human partners:{P11831}  
18183 Pathogen[ POC3410] interacts with 2 human partners:{P11831;Q8IX07}  
18184 Pathogen[ P14075] interacts with 1 human partners:{P11831}  
18185 Pathogen[ POC206] interacts with 2 human partners:{P11831;Q8IX07}  
18186 Pathogen[ POC363] interacts with 1 human partners:{P11831}  
18187 [Cluster 1654]GO:0018293+P biological\_process [name] protein-FAD linkage [def] "The formation of a linkage between a protein amino acid and flavin-adenine dinucleotide (FAD)." [GOC  
18188 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NX18}  
18189 Pathogen[ POC214] interacts with 1 human partners:{Q9NX18}  
18190 Pathogen[ POC346] interacts with 1 human partners:{Q9NX18}  
18191 Pathogen[ Q85601] interacts with 1 human partners:{Q9NX18}  
18192 Pathogen[ P14079] interacts with 1 human partners:{Q9NX18}  
18193 Pathogen[ POC383] interacts with 1 human partners:{Q9NX18}  
18194 Pathogen[ POC3410] interacts with 1 human partners:{Q9NX18}  
18195 Pathogen[ P14075] interacts with 1 human partners:{Q9NX18}  
18196 Pathogen[ POC206] interacts with 1 human partners:{Q9NX18}  
18197 Pathogen[ POC363] interacts with 1 human partners:{Q9NX18}  
18198 [Cluster 1655]GO:0006625+P biological\_process [name] protein targeting to peroxisome [def] "The process of directing proteins towards the peroxisome, usually using signals contained within the protein." [GOC  
18199 Pathogen[ Q2Q067] interacts with 1 human partners:{P40855}  
18200 Pathogen[ POC214] interacts with 1 human partners:{P40855}  
18201 Pathogen[ POC346] interacts with 4 human partners:{P50542;P40855;O43933;Q6FIF0}  
18202 Pathogen[ Q85601] interacts with 2 human partners:{O43933;P40855}  
18203 Pathogen[ P14079] interacts with 3 human partners:{Q9Y5Y5;P40855;P50542}  
18204 Pathogen[ POC383] interacts with 1 human partners:{P40855}  
18205 Pathogen[ POC3410] interacts with 3 human partners:{Q9Y5Y5;P40855;P50542}  
18206 Pathogen[ P14075] interacts with 1 human partners:{P40855}  
18207 Pathogen[ POC206] interacts with 3 human partners:{O43933;P50542;P40855}  
18208 Pathogen[ POC363] interacts with 3 human partners:{O43933;P40855;Q6FIF0}

18209 [Cluster 1656]GO:0048872+P biological\_process [name] homeostasis of number of cells  
[def] "Any biological process involved in the maintenance of the steady-state number of  
cells within a population of cells." [GOC

18210 Pathogen[ Q2Q067] interacts with 4 human partners:{Q8IX07;Q99700;P10242;Q9NYV6}  
18211 Pathogen[ P0C214] interacts with 4 human partners:{Q99700;Q9NYV6;Q8IX07;P10242}  
18212 Pathogen[ P03346] interacts with 4 human partners:{Q99700;P10242;Q8IX07;Q9NYV6}  
18213 Pathogen[ Q85601] interacts with 4 human partners:{P10242;Q8IX07;Q9NYV6;Q99700}  
18214 Pathogen[ P14079] interacts with 4 human partners:{Q9NYV6;Q99700;Q8IX07;P10242}  
18215 Pathogen[ P03383] interacts with 3 human partners:{Q9NYV6;Q99700;P10242}  
18216 Pathogen[ P03410] interacts with 4 human partners:{Q99700;P10242;Q9NYV6;Q8IX07}  
18217 Pathogen[ P14075] interacts with 3 human partners:{Q9NYV6;P10242;Q99700}  
18218 Pathogen[ P0C206] interacts with 4 human partners:{P10242;Q99700;Q8IX07;Q9NYV6}  
18219 Pathogen[ P03363] interacts with 3 human partners:{Q9NYV6;P10242;Q99700}

18220 [Cluster 1657]GO:0021983+P biological\_process [name] pituitary gland development  
[def] "The progression of the pituitary gland over time from its initial formation until  
its mature state. The pituitary gland is an endocrine gland that secretes hormones that  
regulate many other glands." [GO\_REF

18221 Pathogen[ Q2Q067] interacts with 7 human  
partners:{O60806;P14921;P08151;P28069;P23769;P78337;Q9NSC2}  
18222 Pathogen[ P0C214] interacts with 8 human  
partners:{P78337;P14921;P23769;Q9NSC2;P28069;O60806;P08151;P16220}  
18223 Pathogen[ P03346] interacts with 11 human  
partners:{P78337;P16220;P23769;Q9NSC2;P41225;O60806;P51843;P14921;Q9UBR4;P28069;P081  
51}  
18224 Pathogen[ Q85601] interacts with 8 human  
partners:{P08151;P14921;P28069;P23769;P78337;O60806;P16220;Q9NSC2}  
18225 Pathogen[ P14079] interacts with 5 human  
partners:{P08151;P78337;P28069;P23769;Q9NSC2}  
18226 Pathogen[ P03383] interacts with 6 human  
partners:{P16220;P28069;P14921;P23769;P78337;Q9NSC2}  
18227 Pathogen[ P03410] interacts with 7 human  
partners:{P28069;O60806;P16220;P23769;Q9NSC2;P78337;P14921}  
18228 Pathogen[ P14075] interacts with 6 human  
partners:{P28069;Q9NSC2;P78337;P23769;P14921;P16220}  
18229 Pathogen[ P0C206] interacts with 9 human  
partners:{P14921;P16220;Q9NSC2;P78337;P23769;Q9UBR4;P28069;P08151;O60806}  
18230 Pathogen[ P03363] interacts with 6 human  
partners:{P08151;P16220;P14921;P28069;O60806;P78337}

18231 [Cluster 1658]GO:0048597+P biological\_process [name] post-embryonic camera-type eye  
morphogenesis [def] "The process in which the anatomical structures of the eye are  
generated and organized during post-embryonic development." [GOC

18232 Pathogen[ Q2Q067] interacts with 1 human partners:{P05114}  
18233 Pathogen[ P0C214] interacts with 1 human partners:{P05114}  
18234 Pathogen[ P03346] interacts with 1 human partners:{P05114}  
18235 Pathogen[ Q85601] interacts with 1 human partners:{P05114}  
18236 Pathogen[ P14079] interacts with 1 human partners:{P05114}  
18237 Pathogen[ P03383] interacts with 1 human partners:{P05114}  
18238 Pathogen[ P03410] interacts with 1 human partners:{P05114}  
18239 Pathogen[ P14075] interacts with 1 human partners:{P05114}  
18240 Pathogen[ P0C206] interacts with 1 human partners:{P05114}  
18241 Pathogen[ P03363] interacts with 1 human partners:{P05114}

18242 [Cluster 1659]GO:0021501+P biological\_process [name] prechordal plate formation  
[def] "The formation of the prechordal plate. The prechordal plate is a thickening of  
the endoderm at the cranial end of the primitive streak formed by the involution of  
Spemann's organizer cells. The prechordal plate and the notochord induce the formation  
of the neural plate from the overlying ectodermal cells." [GO\_REF

18243 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BWW4}  
18244 Pathogen[ P0C214] interacts with 1 human partners:{Q9BWW4}  
18245 Pathogen[ P03346] interacts with 1 human partners:{Q9BWW4}  
18246 Pathogen[ Q85601] interacts with 1 human partners:{Q9BWW4}  
18247 Pathogen[ P14079] interacts with 1 human partners:{Q9BWW4}  
18248 Pathogen[ P03383] interacts with 1 human partners:{Q9BWW4}  
18249 Pathogen[ P03410] interacts with 1 human partners:{Q9BWW4}  
18250 Pathogen[ P14075] interacts with 1 human partners:{Q9BWW4}  
18251 Pathogen[ P0C206] interacts with 1 human partners:{Q9BWW4}  
18252 Pathogen[ P03363] interacts with 1 human partners:{Q9BWW4}

18253 [Cluster 1660]GO:0007179+P biological\_process [name] transforming growth factor beta  
receptor signaling pathway [def] "The series of molecular signals generated as a  
consequence of a transforming growth factor beta receptor binding to one of its  
physiological ligands." [GOC

18254 Pathogen[ Q2Q067] interacts with 63 human  
partners:{Q9Y5K5;Q13118;P01100;Q9UPN9;Q9HAU4;Q9Y3F4;Q9NPB6;P01106;Q9P2M7;Q13485;O758  
07;P62140;Q13547;Q8WUH2;P41134;Q6ZNA4;P08047;O60563;P61077;Q99966;O14980;Q14186;P127  
55;P84022;P36873;P51668;O00255;O15105;Q9GZV5;O43541;P50750;Q13233;P09874;P62136;Q96P  
U5;Q16254;O15198;P49354;Q15329;Q9GZN2;Q15796;P28749;Q15583;Q93008;P12757;P35813;P0CG  
47;Q9Y618;Q9UNE7;P0CG48;O43318;P49336;O60583;P24863;P62987;Q14188;Q99717;O75376;P615

86;Q15797;P42772;Q15750;P62979}  
18255 Pathogen[ P0C214] interacts with 65 human  
partners: {O15198;P24863;P49354;Q16254;P35813;Q9HAU4;P62140;Q13547;P12757;P50750;O75807;P01100;P17275;P61586;P84022;Q9GZV5;P05121;O43318;Q93008;P61077;Q9Y5K5;Q9HCE7;Q99966;Q9NPB6;Q13233;Q14186;O14980;P41134;P49336;P0CG48;Q13485;O15105;O60583;Q15329;P62136;O75376;P15796;O43541;Q9Y3F4;P12755;Q6ZNA4;P62987;Q15750;O60563;P05412;P28749;Q9P2M7;P0CG47;P36873;Q99717;Q15797;P51668;P16220;P62979;Q9UNE7;Q9Y618;Q8WUH2;Q9UPN9;P01106;Q14188;P08047;O00255;P42772;Q96PU5;P09874}  
18256 Pathogen[ P03346] interacts with 68 human  
partners: {P62136;Q9UPN9;P05412;O95405;P35813;Q9HAU4;Q99966;Q96PU5;P16220;P12757;Q15329;Q93008;P62987;Q15797;Q14188;Q9GZV5;O60563;P17275;P24863;P49336;Q15583;P42772;P0CG48;Q15796;Q9NPB6;Q99717;O15105;Q16254;Q8WUH2;P51668;P61077;Q8TEW0;O15198;P08047;P01106;O60583;Q14186;P84022;O14980;P49354;O43541;Q9GZN2;O00255;Q9Y3F4;P41134;Q13118;Q9UNE7;P36873;Q13547;P50750;Q13233;Q6ZNA4;O75376;Q15750;P09874;P62979;P28749;P0CG47;Q13485;P62140;O43318;Q9Y618;O75593;P01100;O75807;Q9Y5K5;Q9P2M7;P61586}  
18257 Pathogen[ Q85601] interacts with 67 human  
partners: {P01106;O15198;Q9UPN9;P09874;Q9HAU4;P41134;Q15750;O60563;P50750;Q15329;O43541;Q15797;Q99966;P49336;O60583;P42772;P12757;Q14188;Q9Y618;Q15583;Q96PU5;Q9GZV5;P0CG48;Q8WUH2;P51668;Q93008;P61077;P12755;P08047;P01100;Q14186;P49354;P62136;P16220;Q99717;P36873;Q9Y5K5;P05412;Q9Y3F4;O00255;O75376;Q16254;Q9NPB6;P05121;P61586;Q13118;O14980;P62979;P28749;P84022;P0CG47;Q6ZNA4;Q9GZN2;O15105;Q13547;P62140;P24863;Q13233;P62987;O43318;P35813;O75807;P17275;Q9UNE7;Q13485;Q9P2M7;Q15796}  
18258 Pathogen[ P14079] interacts with 55 human  
partners: {P09874;P12755;P0CG48;Q9GZV5;P28749;Q14186;Q13118;P49336;P36873;P49354;Q16254;P01225;Q15583;O15198;Q15329;O95405;O75807;P62136;Q6ZNA4;Q99966;Q9GZN2;Q15750;Q9Y3F4;P62979;Q9HAU4;Q15797;P61077;P62987;P35813;Q8TEW0;Q9Y5K5;P51668;Q9UPN9;P24863;P17275;P62140;P61586;P01106;Q9P2M7;O43541;O75376;O60583;P41134;P12757;Q969W9;P05412;Q9NPB6;Q8WUH2;O15105;P0CG47;O00255;Q13145;P01100;Q14188;P50750}  
18259 Pathogen[ P03383] interacts with 55 human  
partners: {Q9Y618;Q15329;O15198;P62140;Q13485;P08047;P16220;P62987;Q13233;O75376;P01106;Q9UPN9;Q6ZNA4;Q15797;P35813;O43318;P61077;P36873;P62136;O15105;P49336;Q14186;P84022;O60563;P42772;P61586;O14980;Q99717;P09874;Q16254;O43541;P50750;Q9NPB6;Q9P2M7;Q9Y3F4;O00255;Q9Y5K5;Q13547;P28749;Q14188;P01100;P62979;P0CG47;Q15796;P12757;P0CG48;O75807;P24863;P17275;Q9GZV5;O60583;P51668;Q8WUH2;Q15750;P05412}  
18260 Pathogen[ P03410] interacts with 68 human  
partners: {P84022;O60583;P49354;P05121;Q6ZNA4;P0CG48;O95405;Q969W9;P35813;Q15329;P42772;P12755;P01106;Q15750;Q99717;Q16254;P62136;O15198;Q13145;P41134;Q8WUH2;Q9Y3F4;O75376;Q13233;P62979;Q14188;P01100;Q9GZV5;P50750;O60563;O43318;Q15583;Q9UNE7;P62140;P61586;P17275;Q15797;Q13485;Q14186;P09874;P16220;P12757;P36873;P51668;Q13118;O75807;P05412;O43541;P49336;O15105;P24863;P28749;P62987;Q13547;Q9Y5K5;Q8TEW0;Q9NPB6;Q9GZN2;P08047;Q9P2M7;Q9Y618;O00255;Q15796;P0CG47;Q9UPN9;O14980;P61077;Q99966}  
18261 Pathogen[ P14075] interacts with 54 human  
partners: {P49336;Q9GZV5;P35813;Q9Y3F4;P24863;Q15750;P05412;O43541;P17275;O60563;P50750;O60583;Q99717;P62140;Q15796;Q13547;P61077;P01106;P36873;Q9Y618;O75376;P62136;P12757;Q13485;O00255;Q14186;O14980;P0CG48;P62979;Q6ZNA4;Q16254;Q9UPN9;O43318;O15198;O75807;P62987;P61586;O15105;P28749;P01100;P0CG47;P42772;Q8WUH2;P16220;Q9NPB6;Q15329;P84022;Q9P2M7;Q13233;Q14188;P51668;P09874;Q9Y5K5;P08047}  
18262 Pathogen[ P0C206] interacts with 68 human  
partners: {P84022;O43541;P24863;Q14188;Q96PU5;P0CG48;Q9Y3F4;Q15329;P49336;Q9UPN9;P50750;Q9HAU4;P16220;P17275;P09874;Q93008;Q6ZNA4;O75807;O00255;Q99717;P05412;O43318;Q13547;Q14186;P42772;Q15796;P49354;Q13233;Q16254;P28749;Q9Y5K5;P12755;P61586;Q9GZV5;P41134;Q9GZN2;O15105;Q8TEW0;Q9UNE7;P12757;P08047;P01100;P62979;O95405;Q9NPB6;O75376;Q8WUH2;Q13485;P62140;P0CG47;Q15797;Q99966;P05121;Q9P2M7;P01106;P61077;Q15750;O15198;P62987;O60583;Q13118;P36873;O60563;P51668;Q9Y618;P62136;P35813;Q15583}  
18263 Pathogen[ P03363] interacts with 59 human  
partners: {Q9GZN2;Q9Y3F4;P62136;Q9Y5K5;P36873;O60563;Q9HAU4;P62140;P24863;P12757;O14980;O75376;P49354;Q16254;P16220;Q9NPB6;Q9UPN9;O43318;O15105;Q15797;P01106;P28749;P17275;Q15750;Q6ZNA4;O95405;O60583;P42772;Q96PU5;Q9GZV5;Q9UNE7;O43541;P41134;Q15796;P84022;Q9Y618;P49336;Q15583;P62987;Q13547;O75807;P51668;Q13485;Q8WUH2;P50750;Q14186;Q14188;P05412;P61077;P09874;P08047;Q99717;Q9P2M7;O15198;Q93008;Q15329;Q13233;Q13118;P01100}  
18264 [Cluster 1661]GO:2000370+P biological\_process [name] positive regulation of clathrin-mediated endocytosis [def] "Any process that activates or increases the frequency, rate or extent of clathrin-mediated endocytosis." [GOC  
18265 Pathogen[ Q2Q067] interacts with 1 human partners: {O00401}  
18266 Pathogen[ P0C214] interacts with 1 human partners: {O00401}  
18267 Pathogen[ P03346] interacts with 2 human partners: {Q6P3W7;O00401}  
18268 Pathogen[ Q85601] interacts with 1 human partners: {O00401}  
18269 Pathogen[ P14079] interacts with 1 human partners: {O00401}  
18270 Pathogen[ P03383] interacts with 1 human partners: {O00401}  
18271 Pathogen[ P03410] interacts with 1 human partners: {O00401}  
18272 Pathogen[ P14075] interacts with 1 human partners: {O00401}  
18273 Pathogen[ P0C206] interacts with 2 human partners: {Q6P3W7;O00401}  
18274 Pathogen[ P03363] interacts with 1 human partners: {O00401}  
18275 [Cluster 1662]GO:0061351+P biological\_process [name] neural precursor cell proliferation [def] "The multiplication or reproduction of neural precursor cells,

resulting in the expansion of a cell population. A neural precursor cell is either a nervous system stem cell or a nervous system progenitor cell." [GOC

18276 Pathogen[ Q2Q067] interacts with 1 human partners:{095613}

18277 Pathogen[ P0C214] interacts with 1 human partners:{095613}

18278 Pathogen[ P03346] interacts with 1 human partners:{095613}

18279 Pathogen[ Q85601] interacts with 1 human partners:{095613}

18280 Pathogen[ P14079] interacts with 1 human partners:{095613}

18281 Pathogen[ P03383] interacts with 1 human partners:{095613}

18282 Pathogen[ P03410] interacts with 1 human partners:{095613}

18283 Pathogen[ P14075] interacts with 1 human partners:{095613}

18284 Pathogen[ P0C206] interacts with 1 human partners:{095613}

18285 Pathogen[ P03363] interacts with 1 human partners:{095613}

18286 [Cluster 1663]GO:0007568+P biological\_process [name] aging [def] "The inherent decline over time, from the optimal fertility and viability of early maturity, that may precede death and may be preceded by other indications, such as sterility." [GOC

18287 Pathogen[ Q2Q067] interacts with 17 human partners:{P01100;P13929;Q04206;P36956;Q96ST3;P02511;P63241;P11388;O14508;Q9HB71;P09972;P06396;P29474;P42575;P54098;P04818;P42771}

18288 Pathogen[ P0C214] interacts with 22 human partners:{P29474;P04818;P62993;P54098;P02511;P01100;Q04206;P06396;P63241;Q9UJ68;P13929;P05543;P42771;P11388;O14508;P09972;P09622;P05412;Q96ST3;P55210;Q9HB71;P42575}

18289 Pathogen[ P03346] interacts with 20 human partners:{Q96ST3;P05412;P09972;P29474;P54098;P36956;P11388;P13929;Q12772;P42575;Q04206;P62993;P63241;P42771;O14508;Q9HB71;P02511;P55210;P06396;P01100}

18290 Pathogen[ Q85601] interacts with 20 human partners:{P62993;P06396;Q12772;P63241;O14508;P01100;P54098;P36956;P13929;P42575;Q04206;P02511;P09972;P05412;P11388;P42771;P29474;Q9HB71;P55210;Q96ST3}

18291 Pathogen[ P14079] interacts with 22 human partners:{P11388;Q96ST3;Q86W33;P02511;P00395;P09972;Q12772;Q9HB71;P55210;O60502;P63241;O14508;P13929;P62993;P42575;P54098;P05412;P36956;P04818;P01100;Q9UJ68;P42771}

18292 Pathogen[ P03383] interacts with 12 human partners:{P29474;P02511;P09972;P63241;Q9HB71;P54098;P42771;P01100;Q04206;Q96ST3;P06396;P05412}

18293 Pathogen[ P03410] interacts with 24 human partners:{Q04206;P42771;P36956;Q9HB71;Q86W33;P42575;O60502;P06396;Q96ST3;P01100;P29474;Q9UJ68;P09972;O14508;P04818;Q12772;P02511;P05412;P11388;P13929;P63241;P62993;P54098;P55210}

18294 Pathogen[ P14075] interacts with 12 human partners:{P29474;Q96ST3;P54098;Q04206;P05412;P42771;P63241;P06396;P02511;P01100;P09972;Q9HB71}

18295 Pathogen[ P0C206] interacts with 22 human partners:{Q9HB71;P06396;Q96ST3;P05412;P54098;P42771;P36956;P62993;P01100;Q04206;O14508;Q9UJ68;P04818;P29474;P63241;P09972;P42575;P11388;P02511;P55210;P13929;Q12772}

18296 Pathogen[ P03363] interacts with 13 human partners:{P29474;Q04206;Q9HB71;P09972;P54098;P06396;Q96ST3;P63241;P05412;P55210;O14508;P42771;P01100}

18297 [Cluster 1664]GO:0070885+P biological\_process [name] negative regulation of calcineurin-NFAT signaling pathway [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of signaling via the calcineurin-NFAT signaling pathway." [GOC

18298 Pathogen[ Q2Q067] interacts with 1 human partners:{P04156}

18299 Pathogen[ P0C214] interacts with 1 human partners:{P04156}

18300 Pathogen[ P03346] interacts with 1 human partners:{P04156}

18301 Pathogen[ Q85601] interacts with 1 human partners:{P04156}

18302 Pathogen[ P14079] interacts with 1 human partners:{P04156}

18303 Pathogen[ P03383] interacts with 1 human partners:{P04156}

18304 Pathogen[ P03410] interacts with 1 human partners:{P04156}

18305 Pathogen[ P14075] interacts with 1 human partners:{P04156}

18306 Pathogen[ P0C206] interacts with 1 human partners:{P04156}

18307 Pathogen[ P03363] interacts with 1 human partners:{P04156}

18308 [Cluster 1665]GO:2000573+P biological\_process [name] positive regulation of DNA biosynthetic process [def] "Any process that activates or increases the frequency, rate or extent of DNA biosynthetic process." [GOC

18309 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9H4X1;P01106}

18310 Pathogen[ P0C214] interacts with 2 human partners:{Q9H4X1;P01106}

18311 Pathogen[ P03346] interacts with 2 human partners:{Q9H4X1;P01106}

18312 Pathogen[ Q85601] interacts with 2 human partners:{P01106;Q9H4X1}

18313 Pathogen[ P14079] interacts with 1 human partners:{P01106}

18314 Pathogen[ P03383] interacts with 2 human partners:{Q9H4X1;P01106}

18315 Pathogen[ P03410] interacts with 2 human partners:{Q9H4X1;P01106}

18316 Pathogen[ P14075] interacts with 2 human partners:{Q9H4X1;P01106}

18317 Pathogen[ P0C206] interacts with 2 human partners:{Q9H4X1;P01106}

18318 Pathogen[ P03363] interacts with 2 human partners:{Q9H4X1;P01106}

18319 [Cluster 1666]GO:0046836+P biological\_process [name] glycolipid transport [def] "The directed movement of glycolipids, compounds containing (usually) 1-4 linked monosaccharide residues joined by a glycosyl linkage to a lipid, into, out of or within



a cell, or between cells, by means of some agent such as a transporter or pore." [GOC

18320 Pathogen[ Q2Q067] interacts with 2 human partners:{A6NH11;O95397}

18321 Pathogen[ P0C214] interacts with 2 human partners:{A6NH11;O95397}

18322 Pathogen[ P03346] interacts with 3 human partners:{O95397;Q5TA50;A6NH11}

18323 Pathogen[ Q85601] interacts with 1 human partners:{O95397}

18324 Pathogen[ P14079] interacts with 4 human partners:{A6NH11;Q5TA50;O95397;Q9NZD2}

18325 Pathogen[ P03383] interacts with 2 human partners:{A6NH11;O95397}

18326 Pathogen[ P03410] interacts with 4 human partners:{Q5TA50;A6NH11;Q9NZD2;O95397}

18327 Pathogen[ P14075] interacts with 3 human partners:{O95397;A6NH11;Q5TA50}

18328 Pathogen[ P0C206] interacts with 4 human partners:{O95397;Q9NZD2;A6NH11;Q5TA50}

18329 Pathogen[ P03363] interacts with 3 human partners:{Q5TA50;O95397;A6NH11}

18330 [Cluster 1667]GO:0065001+P biological\_process [name] specification of axis polarity [def] "The pattern specification process in which the polarity of a body or organ axis is established and maintained." [GOC

18331 Pathogen[ Q2Q067] interacts with 1 human partners:{Q6W2J9}

18332 Pathogen[ P0C214] interacts with 1 human partners:{Q6W2J9}

18333 Pathogen[ P03346] interacts with 2 human partners:{Q8N157;Q6W2J9}

18334 Pathogen[ Q85601] interacts with 1 human partners:{Q6W2J9}

18335 Pathogen[ P14079] interacts with 2 human partners:{Q8N157;Q6W2J9}

18336 Pathogen[ P03383] interacts with 1 human partners:{Q6W2J9}

18337 Pathogen[ P03410] interacts with 2 human partners:{Q6W2J9;Q8N157}

18338 Pathogen[ P14075] interacts with 1 human partners:{Q6W2J9}

18339 Pathogen[ P0C206] interacts with 2 human partners:{Q6W2J9;Q8N157}

18340 Pathogen[ P03363] interacts with 2 human partners:{Q8N157;Q6W2J9}

18341 [Cluster 1668]GO:0061178+P biological\_process [name] regulation of insulin secretion involved in cellular response to glucose stimulus [def] "Any process that modulates the frequency, rate or extent of the regulated release of insulin that contributes to the response of a cell to glucose." [GOC

18342 Pathogen[ Q2Q067] interacts with 1 human partners:{Q15651}

18343 Pathogen[ P0C214] interacts with 2 human partners:{Q15651;Q00536}

18344 Pathogen[ P03346] interacts with 2 human partners:{Q00536;Q15651}

18345 Pathogen[ Q85601] interacts with 2 human partners:{Q00536;Q15651}

18346 Pathogen[ P14079] interacts with 1 human partners:{Q15651}

18347 Pathogen[ P03383] interacts with 2 human partners:{Q00536;Q15651}

18348 Pathogen[ P03410] interacts with 1 human partners:{Q15651}

18349 Pathogen[ P14075] interacts with 1 human partners:{Q15651}

18350 Pathogen[ P0C206] interacts with 2 human partners:{Q00536;Q15651}

18351 Pathogen[ P03363] interacts with 2 human partners:{Q15651;Q00536}

18352 [Cluster 1669]GO:0009451+P biological\_process [name] RNA modification [def] "The covalent alteration of one or more nucleotides within an RNA molecule to produce an RNA molecule with a sequence that differs from that coded genetically." [GOC

18353 Pathogen[ Q2Q067] interacts with 6 human partners:{Q9Y606;O60832;Q9BZE2;O95453;Q96CM3;O95900}

18354 Pathogen[ P0C214] interacts with 9 human partners:{Q3MIT2;O95453;Q9UJJ7;Q9BZE2;O95900;O60832;Q9Y606;Q8IZ73;Q96CM3}

18355 Pathogen[ P03346] interacts with 8 human partners:{Q9Y606;O95900;Q9BZE2;O60832;O95453;Q8N0Z8;Q8WWH5;Q96CM3}

18356 Pathogen[ Q85601] interacts with 6 human partners:{Q9BZE2;Q9Y606;Q9UJJ7;O95453;Q96CM3;O60832}

18357 Pathogen[ P14079] interacts with 16 human partners:{Q5VV42;Q9BZE2;Q3MIT2;Q96CM3;Q6P087;O60832;O95453;Q8IZ73;Q96PZ0;Q8N0Z8;Q9H0K6;Q9Y606;Q96SZ6;Q9UJJ7;O95900;Q8WWH5}

18358 Pathogen[ P03383] interacts with 6 human partners:{Q9BZE2;Q9Y606;O95900;O95453;Q96CM3;O60832}

18359 Pathogen[ P03410] interacts with 13 human partners:{Q8IZ73;O60832;Q9UJJ7;Q96CM3;O95453;Q8N0Z8;Q9BZE2;Q8WWH5;Q9Y606;O95900;Q6P087;Q9H0K6;Q3MIT2}

18360 Pathogen[ P14075] interacts with 9 human partners:{O95453;Q8N0Z8;Q9Y606;Q8WWH5;O95900;Q9UJJ7;Q9BZE2;O60832;Q96CM3}

18361 Pathogen[ P0C206] interacts with 11 human partners:{Q8WWH5;O95453;Q8IZ73;Q9UJJ7;Q9BZE2;Q6P087;O95900;O60832;Q9Y606;Q8N0Z8;Q96CM3}

18362 Pathogen[ P03363] interacts with 8 human partners:{O60832;Q9BZE2;O95453;Q9Y606;O95900;Q8N0Z8;Q8WWH5;Q96CM3}

18363 [Cluster 1670]GO:0031529+P biological\_process [name] ruffle organization [def] "A process that is carried out at the cellular level which results in the assembly, arrangement of constituent parts, or disassembly of a ruffle, a projection at the leading edge of a crawling cell." [GOC

18364 Pathogen[ Q2Q067] interacts with 2 human partners:{P63000;Q14693}

18365 Pathogen[ P0C214] interacts with 3 human partners:{P63000;Q5VZK9;Q14693}

18366 Pathogen[ P03346] interacts with 4 human partners:{Q9HB21;P63000;Q5VZK9;Q14693}

18367 Pathogen[ Q85601] interacts with 4 human partners:{P63000;Q5VZK9;Q9HB21;Q14693}

18368 Pathogen[ P14079] interacts with 2 human partners:{Q14693;Q9HB21}

18369 Pathogen[ P03383] interacts with 2 human partners:{P63000;Q14693}

18370 Pathogen[ P03410] interacts with 4 human partners:{P63000;Q9HB21;Q14693;Q5VZK9}

18371 Pathogen[ P14075] interacts with 2 human partners:{P63000;Q14693}

18372 Pathogen[ POC206] interacts with 4 human partners:{P63000;Q5VZK9;Q9HB21;Q14693}  
18373 Pathogen[ POC363] interacts with 3 human partners:{Q5VZK9;P63000;Q7L576}  
18374 [Cluster 1671]GO:0030155+P biological\_process [name] regulation of cell adhesion  
[def] "Any process that modulates the frequency, rate or extent of attachment of a cell  
to another cell or to the extracellular matrix." [GOC  
18375 Pathogen[ Q2Q067] interacts with 8 human  
partners:{P30153;O14974;P62140;P67775;P11831;Q9UNN5;P06396;O60759}  
18376 Pathogen[ POC214] interacts with 9 human  
partners:{P62140;P30153;O60759;P11831;P06396;O14974;Q9UNN5;P67775;Q99574}  
18377 Pathogen[ POC346] interacts with 9 human  
partners:{Q15438;P11831;O60759;P67775;P30153;Q9UNN5;P62140;P06396;O14974}  
18378 Pathogen[ Q85601] interacts with 8 human  
partners:{P11831;P06396;O60759;P30153;Q9UNN5;P67775;O14974;P62140}  
18379 Pathogen[ P14079] interacts with 6 human  
partners:{O14974;O60759;Q9UNN5;P62140;P30153;Q15438}  
18380 Pathogen[ POC383] interacts with 6 human  
partners:{P62140;P11831;P30153;P67775;Q9UNN5;P06396}  
18381 Pathogen[ POC410] interacts with 9 human  
partners:{P11831;Q9UNN5;P06396;O60759;P62140;O14974;Q15438;P30153;P67775}  
18382 Pathogen[ P14075] interacts with 6 human  
partners:{P11831;P62140;Q9UNN5;P06396;P67775;P30153}  
18383 Pathogen[ POC206] interacts with 8 human  
partners:{Q9UNN5;P06396;O60759;P30153;P67775;O14974;P62140;P11831}  
18384 Pathogen[ POC363] interacts with 9 human  
partners:{Q9UNN5;Q15438;P62140;P06396;P11831;O14974;O60759;P30153;P67775}  
18385 [Cluster 1672]GO:0055117+P biological\_process [name] regulation of cardiac muscle  
contraction [def] "Any process that modulates the frequency, rate or extent of cardiac  
muscle contraction." [GOC  
18386 Pathogen[ Q2Q067] interacts with 1 human partners:{O15105}  
18387 Pathogen[ POC214] interacts with 1 human partners:{O15105}  
18388 Pathogen[ POC346] interacts with 1 human partners:{O15105}  
18389 Pathogen[ Q85601] interacts with 1 human partners:{O15105}  
18390 Pathogen[ P14079] interacts with 1 human partners:{O15105}  
18391 Pathogen[ POC383] interacts with 1 human partners:{O15105}  
18392 Pathogen[ POC410] interacts with 1 human partners:{O15105}  
18393 Pathogen[ P14075] interacts with 1 human partners:{O15105}  
18394 Pathogen[ POC206] interacts with 1 human partners:{O15105}  
18395 Pathogen[ POC363] interacts with 1 human partners:{O15105}  
18396 [Cluster 1673]GO:0051546+P biological\_process [name] keratinocyte migration [def]  
"The directed movement of a keratinocyte, epidermal cells which synthesize keratin, from  
one site to another." [ISBN  
18397 Pathogen[ Q2Q067] interacts with 1 human partners:{P35908}  
18398 Pathogen[ POC214] interacts with 1 human partners:{P35908}  
18399 Pathogen[ POC346] interacts with 1 human partners:{P35908}  
18400 Pathogen[ Q85601] interacts with 1 human partners:{P35908}  
18401 Pathogen[ P14079] interacts with 1 human partners:{P35908}  
18402 Pathogen[ POC383] interacts with 1 human partners:{P35908}  
18403 Pathogen[ POC410] interacts with 1 human partners:{P35908}  
18404 Pathogen[ P14075] interacts with 1 human partners:{P35908}  
18405 Pathogen[ POC206] interacts with 1 human partners:{P35908}  
18406 Pathogen[ POC363] interacts with 1 human partners:{P35908}  
18407 [Cluster 1674]GO:0030225+P biological\_process [name] macrophage differentiation  
[def] "The process in which a relatively unspecialized monocyte acquires the specialized  
features of a macrophage." [GOC  
18408 Pathogen[ Q2Q067] interacts with 6 human  
partners:{Q01892;Q14790;Q15744;P60953;P49715;P17947}  
18409 Pathogen[ POC214] interacts with 4 human partners:{P17947;P60953;Q01892;Q14790}  
18410 Pathogen[ POC346] interacts with 7 human  
partners:{P60953;P49715;Q15744;Q14790;P17947;Q8TAU0;Q01892}  
18411 Pathogen[ Q85601] interacts with 6 human  
partners:{Q01892;Q14790;Q15744;P49715;P60953;P17947}  
18412 Pathogen[ P14079] interacts with 4 human partners:{Q15744;Q01892;Q14790;P49715}  
18413 Pathogen[ POC383] interacts with 3 human partners:{P60953;Q01892;P17947}  
18414 Pathogen[ POC410] interacts with 4 human partners:{P17947;P60953;Q15744;Q01892}  
18415 Pathogen[ P14075] interacts with 3 human partners:{P60953;Q01892;P17947}  
18416 Pathogen[ POC206] interacts with 7 human  
partners:{Q15744;P49715;Q14790;P17947;P60953;Q8TAU0;Q01892}  
18417 Pathogen[ POC363] interacts with 5 human  
partners:{Q15744;P17947;Q01892;Q8TAU0;P60953}  
18418 [Cluster 1675]GO:0007032+P biological\_process [name] endosome organization [def] "A  
process that is carried out at the cellular level which results in the assembly,  
arrangement of constituent parts, or disassembly of endosomes." [GOC  
18419 Pathogen[ Q2Q067] interacts with 7 human  
partners:{O75351;O43752;Q8N612;Q6ICB4;Q9H8T0;Q86VS8;Q96ED9}  
18420 Pathogen[ POC214] interacts with 7 human  
partners:{Q6ICB4;O75351;Q96ED9;Q8N612;Q86VS8;Q9H8T0;O43752}

18421 Pathogen[ P03346] interacts with 12 human partners: {O43752;Q86VS8;Q9P253;Q8N612;Q9Y6D5;Q9H8T0;Q8N4B1;Q96ED9;Q96S99;O75351;Q6ICB4;Q9UJC3}

18422 Pathogen[ Q85601] interacts with 9 human partners: {Q96S99;Q86VS8;Q9P253;Q8N612;O43752;O75351;Q9H8T0;Q6ICB4;Q96ED9}

18423 Pathogen[ P14079] interacts with 13 human partners: {Q9UJC3;Q86VS8;Q96ED9;Q9Y6D5;Q9H8T0;Q96S99;Q6IAA8;Q8N4B1;Q9P253;Q8N612;Q6ICB4;O43752;O75351}

18424 Pathogen[ P03383] interacts with 5 human partners: {Q8N612;Q9H8T0;Q86VS8;Q96ED9;O43752}

18425 Pathogen[ P03410] interacts with 13 human partners: {Q9UJC3;Q96S99;Q8N4B1;O75351;Q9H8T0;Q86VS8;Q9P253;Q96ED9;Q9Y6D5;Q8N612;Q6ICB4;Q6IAA8;O43752}

18426 Pathogen[ P14075] interacts with 5 human partners: {Q8N612;O43752;Q9H8T0;Q86VS8;Q96ED9}

18427 Pathogen[ P0C206] interacts with 12 human partners: {O43752;Q9H8T0;Q6ICB4;Q86VS8;Q96ED9;Q9Y6D5;Q96S99;Q8N612;Q8N4B1;Q9P253;Q9UJC3;O75351}

18428 Pathogen[ P03363] interacts with 9 human partners: {Q86VS8;Q96ED9;Q6ICB4;Q8N4B1;O75351;Q9H8T0;Q8N612;O43752;Q9UJC3}

18429 [Cluster 1676]GO:0007097+P biological\_process [name] nuclear migration [def] "The directed movement of the nucleus." [GOC

18430 Pathogen[ Q2Q067] interacts with 3 human partners: {Q9UH99;Q9Y266;P60953}

18431 Pathogen[ P0C214] interacts with 4 human partners: {P60953;Q9Y266;Q9UH99;P35580}

18432 Pathogen[ P03346] interacts with 4 human partners: {Q8WXH0;Q9UH99;P60953;Q9Y266}

18433 Pathogen[ Q85601] interacts with 4 human partners: {Q9Y266;Q9UH99;P60953;P35580}

18434 Pathogen[ P14079] interacts with 3 human partners: {Q9Y266;Q8WXH0;Q9UH99}

18435 Pathogen[ P03383] interacts with 4 human partners: {P60953;Q9UH99;Q9Y266;P35580}

18436 Pathogen[ P03410] interacts with 5 human partners: {Q9UH99;P60953;P35580;Q9Y266;Q8WXH0}

18437 Pathogen[ P14075] interacts with 3 human partners: {P60953;Q9Y266;Q9UH99}

18438 Pathogen[ P0C206] interacts with 5 human partners: {Q9UH99;P60953;Q8WXH0;P35580;Q9Y266}

18439 Pathogen[ P03363] interacts with 3 human partners: {Q9Y266;P60953;Q9UH99}

18440 [Cluster 1677]GO:0070245+P biological\_process [name] positive regulation of thymocyte apoptosis [def] "Any process that activates or increases the frequency, rate or extent of thymocyte death by apoptosis." [GOC

18441 Pathogen[ Q2Q067] interacts with 2 human partners: {Q9BXH1;Q8N5P1}

18442 Pathogen[ P0C214] interacts with 1 human partners: {Q9BXH1}

18443 Pathogen[ P03346] interacts with 2 human partners: {Q8N5P1;Q9BXH1}

18444 Pathogen[ Q85601] interacts with 2 human partners: {Q9BXH1;Q8N5P1}

18445 Pathogen[ P14079] interacts with 2 human partners: {Q9BXH1;Q8N5P1}

18446 Pathogen[ P03383] interacts with 1 human partners: {Q9BXH1}

18447 Pathogen[ P03410] interacts with 2 human partners: {Q9BXH1;Q8N5P1}

18448 Pathogen[ P14075] interacts with 1 human partners: {Q9BXH1}

18449 Pathogen[ P0C206] interacts with 2 human partners: {Q9BXH1;Q8N5P1}

18450 Pathogen[ P03363] interacts with 2 human partners: {Q8N5P1;Q9BXH1}

18451 [Cluster 1678]GO:0060690+P biological\_process [name] epithelial cell differentiation involved in salivary gland development [def] "The process in which a relatively unspecialized cell acquire specialized structural and/or functional features of an epithelial cell of the salivary gland." [GOC

18452 Pathogen[ Q2Q067] interacts with 1 human partners: {O60716}

18453 Pathogen[ P0C214] interacts with 1 human partners: {O60716}

18454 Pathogen[ P03346] interacts with 1 human partners: {O60716}

18455 Pathogen[ Q85601] interacts with 1 human partners: {O60716}

18456 Pathogen[ P14079] interacts with 1 human partners: {O60716}

18457 Pathogen[ P03383] interacts with 1 human partners: {O60716}

18458 Pathogen[ P03410] interacts with 1 human partners: {O60716}

18459 Pathogen[ P14075] interacts with 1 human partners: {O60716}

18460 Pathogen[ P0C206] interacts with 1 human partners: {O60716}

18461 Pathogen[ P03363] interacts with 1 human partners: {O60716}

18462 [Cluster 1679]GO:0007051+P biological\_process [name] spindle organization [def] "A process that is carried out at the cellular level which results in the assembly, arrangement of constituent parts, or disassembly of the spindle, the array of microtubules and associated molecules that forms between opposite poles of a eukaryotic cell during DNA segregation and serves to move the duplicated chromosomes apart." [GOC

18463 Pathogen[ Q2Q067] interacts with 14 human partners: {Q14008;Q9P209;Q96R06;O00762;Q2M2Z5;Q9Y448;Q12873;Q9BV86;P33552;O95613;P43487;O95229;O14777;Q9H7T9}

18464 Pathogen[ P0C214] interacts with 14 human partners: {Q14008;O00762;Q12873;Q9P209;P43487;Q96R06;O95229;Q2M2Z5;O95613;Q9Y448;P33552;Q9H7T9;Q9BV86;O14777}

18465 Pathogen[ P03346] interacts with 15 human partners: {O95229;Q2M2Z5;Q96R06;P43487;Q9P209;O14777;O00762;Q14008;P33552;Q9Y448;Q9BV86;Q12873;O95613;O14965;Q9H7T9}

18466 Pathogen[ Q85601] interacts with 15 human

18467 partners:{Q9H7T9;O95229;Q14008;Q2M2Z5;P43487;Q9BV86;Q9P209;Q96R06;O14965;Q9Y448;Q12873;P33552;O00762;O95613;O14777}  
Pathogen[ P14079] interacts with 14 human

18468 partners:{Q2M2Z5;Q9H7T9;Q9P209;Q96R06;O95229;Q9BV86;Q9Y448;Q12873;P33552;O95613;O00762;O14965;O14777;Q14008}  
Pathogen[ P03383] interacts with 14 human

18469 partners:{Q14008;O00762;Q96R06;P33552;Q12873;Q2M2Z5;O95229;P43487;O14965;Q9P209;Q9Y448;O95613;O14777;Q9H7T9}  
Pathogen[ P03410] interacts with 15 human

18470 partners:{Q12873;Q9H7T9;Q14008;Q9P209;Q96R06;O14965;Q9Y448;P33552;P43487;O00762;Q2M2Z5;Q9BV86;O95229;O95613;O14777}  
Pathogen[ P14075] interacts with 14 human

18471 partners:{Q9H7T9;Q96R06;P43487;O14777;O95229;O00762;O14965;O95613;Q9P209;Q14008;Q12873;Q9Y448;Q2M2Z5;P33552}  
Pathogen[ P0C206] interacts with 14 human

18472 partners:{Q9H7T9;Q14008;Q9BV86;O14777;Q9Y448;Q2M2Z5;O95613;P43487;O00762;P33552;Q9P209;O14965;Q12873;O95229}  
Pathogen[ P03363] interacts with 14 human

18473 partners:{O00762;O95229;P33552;Q9BV86;Q9H7T9;O95613;Q9P209;Q96R06;P43487;Q12873;O14777;Q14008;Q9Y448;Q2M2Z5}  
[Cluster 1680]GO:0046548+P biological\_process [name] retinal rod cell development [def] "Development of a rod cell, one of the sensory cells in the eye that reacts to the presence of light. Rod cells contain the photopigment rhodopsin or porphyropsin and are responsible for vision in dim light." [ISBN

18474 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9NS56;P54845}  
18475 Pathogen[ P0C214] interacts with 2 human partners:{Q9NS56;P54845}  
18476 Pathogen[ P03346] interacts with 2 human partners:{P54845;Q9NS56}  
18477 Pathogen[ Q85601] interacts with 2 human partners:{Q9NS56;P54845}  
18478 Pathogen[ P14079] interacts with 4 human partners:{P54845;P56715;Q8TCU4;Q9NS56}  
18479 Pathogen[ P03383] interacts with 1 human partners:{P54845}  
18480 Pathogen[ P03410] interacts with 3 human partners:{P54845;Q8TCU4;P56715}  
18481 Pathogen[ P14075] interacts with 1 human partners:{P54845}  
18482 Pathogen[ P0C206] interacts with 4 human partners:{Q9NS56;P56715;Q8TCU4;P54845}  
18483 Pathogen[ P03363] interacts with 2 human partners:{P56715;P54845}

18484 [Cluster 1681]GO:1901016+P  
18485 Pathogen[ Q2Q067] interacts with 2 human partners:{Q96PU5;Q13642}  
18486 Pathogen[ P0C214] interacts with 3 human partners:{O00308;Q13642;Q96PU5}  
18487 Pathogen[ P03346] interacts with 3 human partners:{Q96PU5;Q13642;O00308}  
18488 Pathogen[ Q85601] interacts with 2 human partners:{Q13642;Q96PU5}  
18489 Pathogen[ P14079] interacts with 1 human partners:{Q13642}  
18490 Pathogen[ P03383] interacts with 1 human partners:{Q13642}  
18491 Pathogen[ P03410] interacts with 1 human partners:{Q13642}  
18492 Pathogen[ P14075] interacts with 1 human partners:{Q13642}  
18493 Pathogen[ P0C206] interacts with 3 human partners:{Q96PU5;O00308;Q13642}  
18494 Pathogen[ P03363] interacts with 3 human partners:{Q96PU5;O00308;Q13642}

18495 [Cluster 1682]GO:0045008+P biological\_process [name] depyrimidination [def] "The disruption of the bond between the sugar in the backbone and the C or T base, causing the base to be removed and leaving a depyrimidinated sugar." [GOC

18496 Pathogen[ Q2Q067] interacts with 5 human  
partners:{O95243;P22674;P78549;Q13569;Q53HV7}  
18497 Pathogen[ P0C214] interacts with 5 human  
partners:{O95243;Q53HV7;P22674;P78549;Q13569}  
18498 Pathogen[ P03346] interacts with 5 human  
partners:{Q53HV7;P78549;Q13569;O95243;P22674}  
18499 Pathogen[ Q85601] interacts with 5 human  
partners:{P22674;O95243;Q53HV7;Q13569;P78549}

18500 Pathogen[ P14079] interacts with 5 human  
partners:{P78549;O95243;Q53HV7;Q13569;P22674}  
18501 Pathogen[ P03383] interacts with 4 human partners:{Q53HV7;P22674;O95243;Q13569}  
18502 Pathogen[ P03410] interacts with 5 human  
partners:{P22674;P78549;Q53HV7;O95243;Q13569}  
18503 Pathogen[ P14075] interacts with 4 human partners:{Q53HV7;P22674;O95243;Q13569}  
18504 Pathogen[ P0C206] interacts with 5 human  
partners:{Q53HV7;Q13569;O95243;P22674;P78549}  
18505 Pathogen[ P03363] interacts with 4 human partners:{O95243;Q13569;P22674;Q53HV7}

18506 [Cluster 1683]GO:0006361+P biological\_process [name] transcription initiation from RNA polymerase I promoter [def] "Any process involved in the assembly of the RNA polymerase I preinitiation complex (PIC) at an RNA polymerase I promoter region of a DNA template, resulting in the subsequent synthesis of RNA from that promoter. The initiation phase includes PIC assembly and the formation of the first few bonds in the RNA chain, including abortive initiation, which occurs when the first few nucleotides are repeatedly synthesized and then released. Promoter clearance, or release, is the transition between the initiation and elongation phases of transcription." [GOC

18507 Pathogen[ Q2Q067] interacts with 21 human  
partners:{O95602;Q15573;P52434;Q13889;P32780;Q6NZI2;Q92759;Q9H9Y6;P51948;Q92831;P50613;Q15572;P53803;Q53T94;P17480;Q15361;Q9NYV6;Q9Y2S0;Q13888;O15160;P51946}

18508 Pathogen[ P0C214] interacts with 20 human partners: {P51946;Q15573;Q9H9Y6;P53803;Q15361;P50613;Q9Y2S0;Q6NZI2;P51948;Q15572;P17480;Q9NYV6;P32780;O15160;Q92831;O95602;Q13888;P52434;Q53T94;Q92759}

18509 Pathogen[ P03346] interacts with 20 human partners: {P52434;Q15573;Q13888;P53803;Q9H9Y6;Q92831;Q6NZI2;Q53T94;Q13889;P17480;Q15361;P51946;O15160;Q92759;O95602;Q9NYV6;P51948;P32780;Q9Y2S0;Q15572}

18510 Pathogen[ Q85601] interacts with 21 human partners: {P51946;P17480;O95602;Q13888;Q15573;P53803;Q9Y2S0;Q92831;P51948;Q9H9Y6;Q15572;Q53T94;Q92759;P32780;P50613;Q9NYV6;Q6NZI2;P52434;Q15361;P19447;O15160}

18511 Pathogen[ P14079] interacts with 21 human partners: {Q9Y2S0;Q15573;Q9NYV6;P51946;P52434;Q13889;P53803;Q15572;P50613;Q13888;P17480;O15160;Q92759;P32780;Q6NZI2;O95602;Q15361;Q53T94;P19447;Q9H9Y6;P51948}

18512 Pathogen[ P03383] interacts with 18 human partners: {P53803;Q92831;O95602;Q9NYV6;P51948;Q15572;Q6NZI2;Q13888;Q9H9Y6;P52434;Q15361;P50613;P51946;Q92759;Q15573;P17480;P32780;Q53T94}

18513 Pathogen[ P03410] interacts with 22 human partners: {Q92831;Q6NZI2;Q15572;Q13889;P51946;P50613;Q9NYV6;Q15573;O95602;P53803;P19447;Q9Y2S0;P51948;O15160;Q13888;P52434;Q53T94;Q15361;P32780;Q92759;Q9H9Y6;P17480}

18514 Pathogen[ P14075] interacts with 19 human partners: {P17480;Q15572;Q92759;Q9NYV6;Q92831;Q53T94;P50613;Q6NZI2;Q13889;Q15573;Q9H9Y6;P51946;P32780;O95602;Q15361;P52434;P51948;P53803;Q13888}

18515 Pathogen[ P0C206] interacts with 22 human partners: {Q53T94;Q15361;O95602;Q15572;Q92831;P19447;P53803;Q13888;P50613;Q9Y2S0;Q6NZI2;Q92759;Q15573;P32780;Q13889;Q9H9Y6;Q9NYV6;P17480;P52434;O15160;P51946;P51948}

18516 Pathogen[ P03363] interacts with 18 human partners: {Q9H9Y6;Q92831;Q13888;P32780;Q92759;P51946;O95602;Q53T94;P17480;Q9NYV6;Q6NZI2;Q15361;Q15573;P53803;Q15572;P52434;Q9Y2S0;O15160}

18517 [Cluster 1684]GO:2000741+P biological\_process [name] positive regulation of mesenchymal stem cell differentiation [def] "Any process that activates or increases the frequency, rate or extent of mesenchymal stem cell differentiation." [GOC

18518 Pathogen[ Q2Q067] interacts with 2 human partners: {P35712;P35711}

18519 Pathogen[ P0C214] interacts with 2 human partners: {P35711;P35712}

18520 Pathogen[ P03346] interacts with 2 human partners: {P35712;P35711}

18521 Pathogen[ Q85601] interacts with 2 human partners: {P35712;P35711}

18522 Pathogen[ P14079] interacts with 2 human partners: {P35711;P35712}

18523 Pathogen[ P03383] interacts with 2 human partners: {P35712;P35711}

18524 Pathogen[ P03410] interacts with 1 human partners: {P35712}

18525 Pathogen[ P14075] interacts with 2 human partners: {P35711;P35712}

18526 Pathogen[ P0C206] interacts with 2 human partners: {P35711;P35712}

18527 Pathogen[ P03363] interacts with 2 human partners: {P35711;P35712}

18528 [Cluster 1685]GO:0031648+P biological\_process [name] protein destabilization [def] "Any process that decreases the stability of a protein, making it more vulnerable to degradative processes or aggregation." [GOC

18529 Pathogen[ Q2Q067] interacts with 8 human partners: {Q9P219;Q6P1J9;P19474;P41134;Q96AB3;Q8N726;Q9Y297;Q00987}

18530 Pathogen[ P0C214] interacts with 8 human partners: {P19474;Q00987;Q8N726;Q9Y297;P41134;Q6P1J9;Q96AB3;Q9P219}

18531 Pathogen[ P03346] interacts with 9 human partners: {Q96AB3;Q00987;Q9P219;P41134;Q8IUQ4;P19474;Q8N726;Q9Y297;Q6P1J9}

18532 Pathogen[ Q85601] interacts with 7 human partners: {P41134;Q6P1J9;Q9P219;Q8N726;Q96AB3;P19474;Q00987}

18533 Pathogen[ P14079] interacts with 7 human partners: {Q96AB3;Q8N726;Q00987;P19474;P41134;Q6P1J9;Q9P219}

18534 Pathogen[ P03383] interacts with 4 human partners: {P19474;Q6P1J9;Q96AB3;Q8N726}

18535 Pathogen[ P03410] interacts with 6 human partners: {Q9P219;Q96AB3;Q8N726;P41134;Q6P1J9;Q00987}

18536 Pathogen[ P14075] interacts with 4 human partners: {Q6P1J9;Q96AB3;P19474;Q8N726}

18537 Pathogen[ P0C206] interacts with 8 human partners: {Q8N726;Q8IUQ4;P41134;Q9P219;Q96AB3;Q00987;Q6P1J9;P19474}

18538 Pathogen[ P03363] interacts with 6 human partners: {Q96AB3;Q6P1J9;P19474;P41134;Q8N726;Q9P219}

18539 [Cluster 1686]GO:0006637+P biological\_process [name] acyl-CoA metabolic process [def] "The chemical reactions and pathways involving acyl-CoA, any derivative of coenzyme A in which the sulfhydryl group is in thiolester linkage with an acyl group." [ISBN

18540 Pathogen[ Q2Q067] interacts with 3 human partners: {O14734;Q9Y305;Q86TX2}

18541 Pathogen[ P0C214] interacts with 4 human partners: {Q9Y305;Q86TX2;O14734;Q6IB77}

18542 Pathogen[ P03346] interacts with 3 human partners: {Q86TX2;Q9Y305;O14734}

18543 Pathogen[ Q85601] interacts with 4 human partners: {Q86TX2;O14734;Q9Y305;Q6IB77}

18544 Pathogen[ P14079] interacts with 5 human partners: {P49753;Q9Y305;Q6IB77;O14734;Q86TX2}

18545 Pathogen[ P03383] interacts with 2 human partners: {Q9Y305;O14734}

18546 Pathogen[ P03410] interacts with 5 human partners: {Q9Y305;Q6IB77;O14734;Q86TX2;P49753}

18547 Pathogen[ P14075] interacts with 2 human partners: {O14734;Q9Y305}

18548 Pathogen[ P0C206] interacts with 4 human partners: {Q86TX2;Q9Y305;O14734;Q6IB77}

18549 Pathogen[ P03363] interacts with 1 human partners:{014734}

18550 [Cluster 1687]GO:0006421+P biological\_process [name] asparaginyl-tRNA aminoacylation [def] "The process of coupling asparagine to asparaginyl-tRNA, catalyzed by asparaginyl-tRNA synthetase. In tRNA aminoacylation, the amino acid is first activated by linkage to AMP and then transferred to either the 2'- or the 3'-hydroxyl group of the 3'-adenosine residue of the tRNA." [GOC

18551 Pathogen[ Q2Q067] interacts with 2 human partners:{Q96I59;O43776}

18552 Pathogen[ P0C214] interacts with 2 human partners:{Q96I59;O43776}

18553 Pathogen[ P03346] interacts with 1 human partners:{O43776}

18554 Pathogen[ Q85601] interacts with 2 human partners:{O43776;Q96I59}

18555 Pathogen[ P14079] interacts with 2 human partners:{O43776;Q96I59}

18556 Pathogen[ P03383] interacts with 2 human partners:{Q96I59;O43776}

18557 Pathogen[ P03410] interacts with 2 human partners:{O43776;Q96I59}

18558 Pathogen[ P14075] interacts with 2 human partners:{O43776;Q96I59}

18559 Pathogen[ P0C206] interacts with 2 human partners:{O43776;Q96I59}

18560 Pathogen[ P03363] interacts with 2 human partners:{Q96I59;O43776}

18561 [Cluster 1688]GO:2000095+P biological\_process [name] regulation of Wnt receptor signaling pathway, planar cell polarity pathway [def] "Any process that modulates the frequency, rate or extent of Wnt receptor signaling pathway, planar cell polarity pathway." [GOC

18562 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NYF0}

18563 Pathogen[ P0C214] interacts with 1 human partners:{Q9NYF0}

18564 Pathogen[ P03346] interacts with 1 human partners:{Q9NYF0}

18565 Pathogen[ Q85601] interacts with 1 human partners:{Q9NYF0}

18566 Pathogen[ P14079] interacts with 1 human partners:{Q9NYF0}

18567 Pathogen[ P03383] interacts with 1 human partners:{Q9NYF0}

18568 Pathogen[ P03410] interacts with 1 human partners:{Q9NYF0}

18569 Pathogen[ P14075] interacts with 1 human partners:{Q9NYF0}

18570 Pathogen[ P0C206] interacts with 1 human partners:{Q9NYF0}

18571 Pathogen[ P03363] interacts with 1 human partners:{Q9NYF0}

18572 [Cluster 1689]GO:0051645+P biological\_process [name] Golgi localization [def] "Any process in which the Golgi is transported to, and/or maintained in, a specific location within the cell." [GOC

18573 Pathogen[ Q2Q067] interacts with 1 human partners:{Q86VS8}

18574 Pathogen[ P0C214] interacts with 1 human partners:{Q86VS8}

18575 Pathogen[ P03346] interacts with 1 human partners:{Q86VS8}

18576 Pathogen[ Q85601] interacts with 1 human partners:{Q86VS8}

18577 Pathogen[ P14079] interacts with 1 human partners:{Q86VS8}

18578 Pathogen[ P03383] interacts with 1 human partners:{Q86VS8}

18579 Pathogen[ P03410] interacts with 1 human partners:{Q86VS8}

18580 Pathogen[ P14075] interacts with 1 human partners:{Q86VS8}

18581 Pathogen[ P0C206] interacts with 1 human partners:{Q86VS8}

18582 Pathogen[ P03363] interacts with 1 human partners:{Q86VS8}

18583 [Cluster 1690]GO:0007343+P biological\_process [name] egg activation [def] "The process in which the egg becomes metabolically active, initiates protein and DNA synthesis and undergoes structural changes to its cortex and/or cytoplasm." [GOC

18584 Pathogen[ Q2Q067] interacts with 1 human partners:{Q6ICG8}

18585 Pathogen[ P0C214] interacts with 1 human partners:{Q6ICG8}

18586 Pathogen[ P03346] interacts with 1 human partners:{Q6ICG8}

18587 Pathogen[ Q85601] interacts with 1 human partners:{Q6ICG8}

18588 Pathogen[ P14079] interacts with 1 human partners:{Q6ICG8}

18589 Pathogen[ P03383] interacts with 1 human partners:{Q6ICG8}

18590 Pathogen[ P03410] interacts with 1 human partners:{Q6ICG8}

18591 Pathogen[ P14075] interacts with 1 human partners:{Q6ICG8}

18592 Pathogen[ P0C206] interacts with 1 human partners:{Q6ICG8}

18593 Pathogen[ P03363] interacts with 1 human partners:{Q6ICG8}

18594 [Cluster 1691]GO:0007220+P biological\_process [name] Notch receptor processing [def] "The series of successive proteolytic cleavages of the Notch protein, which result in an active form of the receptor." [PMID

18595 Pathogen[ Q2Q067] interacts with 4 human partners:{P0CG47;P0CG48;P62987;P62979}

18596 Pathogen[ P0C214] interacts with 4 human partners:{P0CG48;P62987;P0CG47;P62979}

18597 Pathogen[ P03346] interacts with 4 human partners:{P62987;P0CG48;P62979;P0CG47}

18598 Pathogen[ Q85601] interacts with 4 human partners:{P0CG48;P62979;P0CG47;P62987}

18599 Pathogen[ P14079] interacts with 7 human partners:{P0CG48;Q92542;Q9NZ42;P62979;P62987;Q8WW43;P0CG47}

18600 Pathogen[ P03383] interacts with 4 human partners:{P62987;P62979;P0CG47;P0CG48}

18601 Pathogen[ P03410] interacts with 7 human partners:{P0CG48;P62979;Q9NZ42;P62987;Q8WW43;Q92542;P0CG47}

18602 Pathogen[ P14075] interacts with 4 human partners:{P0CG48;P62979;P62987;P0CG47}

18603 Pathogen[ P0C206] interacts with 6 human partners:{P0CG48;Q9NZ42;Q92542;P62979;P0CG47;P62987}

18604 Pathogen[ P03363] interacts with 1 human partners:{P62987}

18605 [Cluster 1692]GO:0030901+P biological\_process [name] midbrain development [def] "The process whose specific outcome is the progression of the midbrain over time, from its formation to the mature structure. The midbrain is the middle division of the three primary divisions of the developing chordate brain or the corresponding part of the

adult brain (in vertebrates, includes a ventral part containing the cerebral peduncles and a dorsal tectum containing the corpora quadrigemina and that surrounds the aqueduct of Sylvius connecting the third and fourth ventricles)." [http

18606 Pathogen[ Q2Q067] interacts with 9 human partners:{Q9Y5K5;Q33E94;O14813;Q9BZE3;Q8NHM5;O15198;Q92830;Q5TGS1;Q15797}

18607 Pathogen[ P0C214] interacts with 10 human partners:{O15198;O14813;P32243;Q9BZE3;Q9Y5K5;Q92830;Q15797;Q5TGS1;Q33E94;Q8NHM5}

18608 Pathogen[ P03346] interacts with 15 human partners:{O75364;O14813;Q05925;Q15797;Q9BZE3;Q16559;P19622;O15198;Q92830;Q33E94;Q5TGS1;P32242;Q8NHM5;P32243;Q9Y5K5}

18609 Pathogen[ Q85601] interacts with 10 human partners:{O15198;O14813;Q15797;Q9BZE3;Q33E94;Q92830;Q5TGS1;Q8NHM5;Q9Y5K5;P32243}

18610 Pathogen[ P14079] interacts with 11 human partners:{Q92830;O15198;Q8NHM5;Q15797;O14949;Q9Y5K5;Q9BZE3;Q5TGS1;P32243;O14813;P28360}

18611 Pathogen[ P03383] interacts with 7 human partners:{O15198;P32243;Q15797;Q33E94;Q92830;Q9Y5K5;Q5TGS1}

18612 Pathogen[ P03410] interacts with 11 human partners:{Q92830;O14813;Q9BZE3;O15198;Q5TGS1;Q15797;P32243;Q9Y5K5;O14949;Q33E94;Q16559}

18613 Pathogen[ P14075] interacts with 6 human partners:{Q5TGS1;Q33E94;O15198;Q92830;P32243;Q9Y5K5}

18614 Pathogen[ P0C206] interacts with 10 human partners:{Q92830;Q5TGS1;Q9Y5K5;Q9BZE3;P32243;O14813;Q8NHM5;Q33E94;Q15797;O15198}

18615 Pathogen[ P03363] interacts with 12 human partners:{Q5TGS1;P19622;Q9Y5K5;Q15797;P32243;Q9BZE3;Q92830;P32242;Q05925;Q33E94;O15198;O14813}

18616 [Cluster 1693]GO:0043330+P biological\_process [name] response to exogenous dsRNA [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an exogenous double-stranded RNA stimulus." [GOC

18617 Pathogen[ Q2Q067] interacts with 5 human partners:{Q8IUC6;Q14653;Q92499;P25963;P42224}

18618 Pathogen[ P0C214] interacts with 6 human partners:{Q8IUC6;P42224;P25963;Q14653;Q92499;Q9H2U1}

18619 Pathogen[ P03346] interacts with 6 human partners:{P25963;Q9H2U1;Q92499;P42224;Q14653;Q8IUC6}

18620 Pathogen[ Q85601] interacts with 6 human partners:{Q8IUC6;Q92499;Q14653;P42224;P25963;Q9H2U1}

18621 Pathogen[ P14079] interacts with 4 human partners:{Q14653;Q8IUC6;P42224;Q92499}

18622 Pathogen[ P03383] interacts with 4 human partners:{Q14653;Q8IUC6;P25963;Q92499}

18623 Pathogen[ P03410] interacts with 5 human partners:{Q14653;Q92499;Q8IUC6;P25963;Q9H2U1}

18624 Pathogen[ P14075] interacts with 4 human partners:{P25963;Q92499;Q14653;Q8IUC6}

18625 Pathogen[ P0C206] interacts with 6 human partners:{P25963;Q8IUC6;Q9H2U1;P42224;Q92499;Q14653}

18626 Pathogen[ P03363] interacts with 4 human partners:{Q14653;P25963;Q92499;Q9H2U1}

18627 [Cluster 1694]GO:0035912+P biological\_process [name] dorsal aorta morphogenesis [def] "The process in which the anatomical structures of the dorsal aorta are generated and organized. The dorsal aorta is a blood vessel in a single-pass circulatory system that carries oxygenated blood from the gills to the rest of the body. In a single-pass circulatory system blood passes once through the heart to supply the body once." [GOC

18628 Pathogen[ Q2Q067] interacts with 3 human partners:{P11831;Q06330;Q9Y5J3}

18629 Pathogen[ P0C214] interacts with 3 human partners:{Q9Y5J3;P11831;Q06330}

18630 Pathogen[ P03346] interacts with 3 human partners:{Q06330;P11831;Q9Y5J3}

18631 Pathogen[ Q85601] interacts with 3 human partners:{P11831;Q06330;Q9Y5J3}

18632 Pathogen[ P14079] interacts with 2 human partners:{Q06330;Q9Y5J3}

18633 Pathogen[ P03383] interacts with 2 human partners:{Q06330;P11831}

18634 Pathogen[ P03410] interacts with 3 human partners:{Q9Y5J3;P11831;Q06330}

18635 Pathogen[ P14075] interacts with 2 human partners:{P11831;Q06330}

18636 Pathogen[ P0C206] interacts with 3 human partners:{Q06330;Q9Y5J3;P11831}

18637 Pathogen[ P03363] interacts with 3 human partners:{Q9Y5J3;Q06330;P11831}

18638 [Cluster 1695]GO:0031936+P biological\_process [name] negative regulation of chromatin silencing [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of chromatin silencing." [GOC

18639 Pathogen[ Q2Q067] interacts with 2 human partners:{P17096;Q9Y294}

18640 Pathogen[ P0C214] interacts with 2 human partners:{P17096;Q9Y294}

18641 Pathogen[ P03346] interacts with 2 human partners:{P17096;Q9Y294}

18642 Pathogen[ Q85601] interacts with 2 human partners:{P17096;Q9Y294}

18643 Pathogen[ P14079] interacts with 2 human partners:{P17096;Q9Y294}

18644 Pathogen[ P03383] interacts with 2 human partners:{P17096;Q9Y294}

18645 Pathogen[ P03410] interacts with 2 human partners:{P17096;Q9Y294}

18646 Pathogen[ P14075] interacts with 2 human partners:{P17096;Q9Y294}

18647 Pathogen[ P0C206] interacts with 2 human partners:{P17096;Q9Y294}

18648 Pathogen[ P03363] interacts with 2 human partners:{Q9Y294;P17096}

18649 [Cluster 1696]GO:0010165+P biological\_process [name] response to X-ray [def] "Any

process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of X-ray radiation. An X-ray is a form of electromagnetic radiation with a wavelength in the range of 10 nanometers to 100 picometers (corresponding to frequencies in the range 30 PHz to 3 EHZ)." [GOC

18650 Pathogen[ Q2Q067] interacts with 6 human  
partners: {P24385;O15350;Q13794;Q13426;Q03468;Q13216}

18651 Pathogen[ POC214] interacts with 6 human  
partners: {O15350;P24385;Q13794;Q13216;Q13426;Q03468}

18652 Pathogen[ P03346] interacts with 10 human  
partners: {P24385;Q6P2D8;P07992;Q13426;O15350;Q03468;P51587;Q13216;O43543;Q13794}

18653 Pathogen[ Q85601] interacts with 8 human  
partners: {P24385;Q6P2D8;Q13216;Q13426;Q03468;O15350;P51587;Q13794}

18654 Pathogen[ P14079] interacts with 10 human  
partners: {P04083;P51587;Q13216;O15350;Q13794;O43543;Q03468;Q13426;P07992;P49917}

18655 Pathogen[ P03383] interacts with 6 human  
partners: {Q13216;P24385;Q03468;Q13426;O15350;Q13794}

18656 Pathogen[ P03410] interacts with 10 human  
partners: {P07992;Q13794;Q03468;Q6P2D8;P24385;P51587;Q13426;Q13216;O43543;O15350}

18657 Pathogen[ P14075] interacts with 6 human  
partners: {Q13216;Q03468;O15350;Q13794;Q13426;P24385}

18658 Pathogen[ POC206] interacts with 11 human  
partners: {P51587;Q03468;Q13216;P07992;P49917;Q13426;Q6P2D8;O15350;O43543;Q13794;P24385}

18659 Pathogen[ P03363] interacts with 6 human  
partners: {Q6P2D8;Q13794;Q13426;P24385;Q03468;Q13216}

18660 [Cluster 1697]GO:0019083+P biological\_process [name] viral transcription [def] "The mechanisms involved in viral gene transcription, especially referring to those with temporal properties unique to viral transcription." [ISBN

18661 Pathogen[ Q2Q067] interacts with 81 human  
partners: {P61313;P62701;P47914;P46779;Q02543;P26373;P62750;P62273;P15880;P40429;P46782;P35268;P22090;P46778;P62888;P32969;P62277;P62241;P62244;P05387;P62861;P42766;P05386;Q9UNX3;P30050;P18077;P62891;P61927;P39023;P62081;P61247;P61254;P62249;P62280;P83731;P62263;P60866;P62906;Q02878;P46777;P62899;P08708;P08865;Q07020;P62913;P62269;P62424;P62917;P62829;P46783;P36578;P62857;P62847;P49207;P23396;P63173;P18621;P39019;P61313;P62266;P42677;Q9Y3U8;P63220;P62841;P83881;P62987;P50914;P46776;P62854;P62753;P05388;P18124;P62851;P25398;P62910;Q92901;P46781;P27635;P61513;P62945;P62979}

18662 Pathogen[ POC214] interacts with 79 human  
partners: {P62861;P84098;P61247;P15880;P62081;P42766;P62913;P22090;Q92901;P62249;P62899;P62854;P39019;P62263;P62273;P23396;P18077;P05388;P62847;P62829;P26373;P27635;P46778;P61513;P83881;P62701;P49207;P63220;P08865;P32969;Q02543;P62266;P62277;P50914;P46779;P40429;P47914;P63173;P46783;P62280;Q9UNX3;Q9Y3U8;P30050;P62753;P62910;P62891;P62269;P46781;P61254;P62841;P62244;P62987;Q07020;P42677;P62945;P46776;P62241;P46777;P83731;P35268;P62424;P60866;P62857;P61313;P08708;P05387;P25398;P61927;P62750;P62979;P05386;P62851;P46782;P18124;P61353;P36578;P18621;P62906;Q02878}

18663 Pathogen[ P03346] interacts with 82 human  
partners: {P05387;P46779;P63173;P62917;P62249;P62913;P62861;P62277;Q02878;P62280;P39023;P62987;P61927;Q9UNX3;P62857;P46778;P49207;P62266;P61254;P62424;P62273;P83731;P60866;P62899;P35268;P62891;P08708;P46782;P61353;P62854;Q9Y3U8;P47914;P08865;P61313;P25398;P61513;P05388;P62269;Q02543;P42766;P62081;P61247;P18621;P46781;P84098;P15880;P50914;P62829;P62979;P39019;P23396;P42677;P62750;P62701;P30050;P62910;P36578;P62847;P62851;P22090;P46777;Q07020;P62263;P62841;P83881;P05386;P18077;P46776;P62241;P62753;P62945;Q92901;P32969;P26373;P18124;P40429;P27635;P46783;P62906;P62244;P62888;P63220}

18664 Pathogen[ Q85601] interacts with 82 human  
partners: {P46783;P32969;P61513;P26373;P62857;P62244;P62913;P62854;P62081;P61353;P62891;P46776;P18077;P61313;P05388;P63173;P23396;P62273;P46778;P62829;P30050;P62753;P27635;P15880;P83881;Q07020;P39019;Q9Y3U8;P62701;P62241;P62424;P83731;P62899;P62945;P62263;P62861;Q02878;P39023;P61254;P49207;P62910;P62249;P62280;P47914;P84098;P08708;P42766;P62269;P18621;P05387;Q9UNX3;P62277;P35268;P62979;P62847;P42677;P63220;P46782;P46779;P62750;P62851;P62841;P62987;P22090;P61927;P36578;P05386;P08865;P61247;P46777;P62917;Q92901;P18124;P46781;P25398;P60866;Q02543;P62906;P50914;P62266;P40429;P62888}

18665 Pathogen[ P14079] interacts with 81 human  
partners: {Q9Y3U8;P27635;P84098;P46779;P26373;P23396;P40429;P18621;P83881;Q9UNX3;P46781;P83731;P61513;P62847;P62753;P39023;P62273;P25398;P18077;P46783;P61254;P50914;P62979;P62841;P18124;P42766;P62266;P46782;P62987;P62241;P32969;P22090;P62829;P60866;P62854;Q07020;P39019;P63220;P49207;P62244;P62263;Q02543;P62424;Q92901;P62277;P62750;P62910;P63173;P46776;P08708;P36578;P62906;P47914;P62280;P62899;P61353;P62081;P62945;P46777;P42677;P30050;P15880;P62891;P62888;P08865;P61927;P62917;P46778;P62249;P05386;P35268;P62913;P05387;P61247;P62269;P62701;P61313;P62851;P05388;P62857;P62861}

18666 Pathogen[ P03383] interacts with 82 human  
partners: {P42766;P36578;P05388;P62266;P39019;P26373;P62913;P62945;P62854;P40429;P62987;P62891;P25398;P62280;Q07020;P62750;P05387;P62249;P62888;P62899;P61927;P46777;P46779;P49207;P83731;P62424;P18124;P46778;Q92901;P62753;P42677;P61247;P83881;P47914;P62917;P62273;Q9UNX3;P30050;P84098;P32969;P62277;P18077;P63173;P62081;P61313;P08865;P62851;P46782;P62269;P63220;Q02543;P62244;Q02878;P62910;P27635;P62857;P62906;P46783;Q9Y3U8;P60866;P61254;P62979;P62241;P46781;P39023;P62841;P22090;P62701;P62829;P62263;P628



18667 Pathogen[ P03410] interacts with 82 human partners: {P62861;P05386;P50914;P62861;P18621;P46776;P15880;P23396;P61513;P08708;P61353} 44;P62913;Q02878;Q92901;P15880;P46777;P46776;P62841;P30050;P05388;P46781;P18124;P62269;Q07020;P63220;P62910;P62847;P62906;P23396;P18621;P62266;P62249;P63173;P50914;P62280;P22090;P61313;P62979;P62701;P62750;P08865;Q9UNX3;P62277;P36578;P18077;P25398;P61927;P84098;P62854;P62273;P62081;P46783;Q9Y3U8;P08708;P46782;P32969;P46779;P27635;P62987;P62857;P62263;P62424;P62888;P61254;P46778;P62945;P05387;P42766;P39019;P47914;P40429;P39023;P62917;P62851;P83731;P35268;P61353;P62891;P62753;P83881;P60866;P42677}

18668 Pathogen[ P14075] interacts with 82 human partners: {P42766;P49207;P62857;P46781;P63220;P32969;P42677;P62913;P22090;Q02878;P62277;P62851;P08865;P62244;P08708;P61254;P46778;P05388;P83881;P46777;Q9Y3U8;P62249;P62081;P62750;P18621;Q02543;P18124;Q9UNX3;P25398;P63173;P30050;P62979;P83731;P84098;P61247;P62753;P46782;P62891;P62861;P18077;P46779;P62917;P39023;P50914;P62269;P62847;P62910;P62273;P40429;P23396;P62241;P15880;P62987;P62841;P36578;P62266;P61513;P61313;P27635;P62888;Q92901;P35268;P62945;P46776;P46783;P62701;P62899;P47914;P62906;P05386;P61353;P39019;P62424;P62829;P62280;Q07020;P62263;P62854;P60866;P26373;P05387;P61927}

18669 Pathogen[ P0C206] interacts with 82 human partners: {P40429;P61313;P27635;P18124;P62854;P49207;P62081;P30050;P62241;P62244;P50914;P08865;P62750;P18621;P46781;P62266;Q02543;Q07020;P83881;P46778;P62263;P62273;Q02878;P62280;P62857;P62851;P62910;P46782;P61247;P18077;P62913;P61927;P61353;P62888;P36578;P62861;P35268;P23396;P39023;P32969;P62701;P05386;P22090;P84098;P62945;P26373;P46777;P05388;P62979;P62899;P83731;P39019;Q92901;P05387;P46783;P42766;P60866;P62841;Q9UNX3;P61513;P62277;P46776;P62906;P63173;P62987;P62891;P62269;P62753;P46779;P63220;P15880;P25398;P08708;P47914;P62847;P61254;P42677;P62829;P62249;P62424;Q9Y3U8;P62917}

18670 Pathogen[ P03363] interacts with 81 human partners: {P62913;P18621;P05386;P62750;P23396;P42677;P63173;P08865;P62847;P18077;P05387;P84098;P42766;P62249;P05388;P36578;P62753;P62081;P62910;P61513;P46776;P61254;P62273;P32969;Q92901;P46778;P61927;P62891;P61353;P08708;P15880;P26373;P83881;P22090;P62861;P62841;Q9UNX3;P30050;P62829;P46782;P35268;P46781;P50914;P63220;P61313;P39019;P46779;Q02543;P46777;P62987;P25398;P83731;P62851;P62280;Q9Y3U8;P62888;P62244;P62277;P62906;P62266;P62945;P49207;P62241;P62424;P60866;P61247;P62899;P62857;Q02878;Q07020;P39023;P62854;P62917;P18124;P40429;P27635;P62263;P47914;P62701;P62269;P46783}

18671 [Cluster 1698]GO:0045665+P biological\_process [name] negative regulation of neuron differentiation [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of neuron differentiation." [GOC

18672 Pathogen[ Q2Q067] interacts with 17 human partners: {O00213;Q9Y6X8;O43364;O00470;P53804;O15350;Q96SN8;P27797;O43711;O60934;Q13127;Q8IZT6;P47928;Q86Y01;Q9Y651;Q9GZU7;P40424}

18673 Pathogen[ P0C214] interacts with 14 human partners: {P40424;O00470;O00213;O15350;Q96SN8;Q9GZU7;P47928;P53804;Q9Y6X8;Q13127;P27797;Q9Y651;Q86Y01;Q8IZT6}

18674 Pathogen[ P03346] interacts with 23 human partners: {O00213;P52954;P78415;O43711;P41225;O15350;O15090;O43364;Q9GZU7;O95096;Q96SN8;O00470;Q9Y6X8;P27797;O60934;Q13516;P40424;Q8IZT6;Q9Y651;P53804;Q86Y01;Q13127;P47928}

18675 Pathogen[ Q85601] interacts with 17 human partners: {O00213;Q13127;Q9GZU7;Q96SN8;Q9Y651;O43364;P27797;Q8IZT6;P40424;Q9Y6X8;O00470;O43711;O15350;P53804;Q86Y01;P47928;O60934}

18676 Pathogen[ P14079] interacts with 14 human partners: {P53804;O43364;O00213;O60934;O15350;Q86Y01;O43711;Q13127;Q9Y6X8;O00470;Q96SN8;P47928;Q8IZT6;Q9GZU7}

18677 Pathogen[ P03383] interacts with 13 human partners: {O00470;O00213;P53804;P40424;Q96SN8;Q9GZU7;O43711;Q9Y6X8;O15350;P47928;Q86Y01;Q13127;P27797}

18678 Pathogen[ P03410] interacts with 16 human partners: {O00470;Q9GZU7;Q96SN8;O00213;Q8IZT6;Q13127;Q86Y01;P47928;Q9Y6X8;O43364;O15350;O43711;P53804;P40424;O60934;P27797}

18679 Pathogen[ P14075] interacts with 13 human partners: {P53804;O00213;P40424;O00470;P47928;Q96SN8;O15350;P27797;Q9Y6X8;O43711;Q9GZU7;Q13127;Q86Y01}

18680 Pathogen[ P0C206] interacts with 18 human partners: {Q86Y01;O43711;Q96SN8;P27797;Q13127;Q9GZU7;O00470;O60934;P53804;Q8IZT6;Q9Y6X8;P40424;O00213;O15350;O43364;P47928;Q86YT6;Q9Y651}

18681 Pathogen[ P03363] interacts with 17 human partners: {Q86Y01;P78415;Q13516;O00213;Q9Y6X8;Q13127;P27797;P47928;O00470;O43711;Q9Y651;P53804;P40424;Q9GZU7;O43364;Q8IZT6;Q96SN8}

18682 [Cluster 1699]GO:0046822+P biological\_process [name] regulation of nucleocytoplasmic transport [def] "Any process that modulates the frequency, rate or extent of the directed movement of substances between the nucleus and the cytoplasm." [GOC

18683 Pathogen[ Q2Q067] interacts with 4 human partners: {O14974;P36873;Q9NRG9;P42771}

18684 Pathogen[ P0C214] interacts with 4 human partners: {O14974;Q9NRG9;P42771;P36873}

18685 Pathogen[ P03346] interacts with 5 human partners: {Q9NRG9;P42771;Q9BWF3;P36873;O14974}

18686 Pathogen[ Q85601] interacts with 4 human partners: {Q9NRG9;P36873;P42771;O14974}

18687 Pathogen[ P14079] interacts with 4 human partners: {P36873;O14974;Q9NRG9;P42771}

18688 Pathogen[ P03383] interacts with 3 human partners:{P36873;P42771;Q9NRG9}  
18689 Pathogen[ P03410] interacts with 4 human partners:{P42771;O14974;P36873;Q9NRG9}  
18690 Pathogen[ P14075] interacts with 3 human partners:{P42771;P36873;Q9NRG9}  
18691 Pathogen[ P0C206] interacts with 4 human partners:{Q9NRG9;P42771;O14974;P36873}  
18692 Pathogen[ P03363] interacts with 5 human partners:{P36873;Q9BWF3;Q9NRG9;O14974;P42771}  
18693 [Cluster 1700]GO:0003223+P biological\_process [name] ventricular compact myocardium morphogenesis [def] "The process in which the anatomical structures of the compact cardiac ventricle muscle are generated and organized." [GOC  
18694 Pathogen[ Q2Q067] interacts with 1 human partners:{P15924}  
18695 Pathogen[ P0C214] interacts with 1 human partners:{P15924}  
18696 Pathogen[ P03346] interacts with 1 human partners:{P15924}  
18697 Pathogen[ Q85601] interacts with 1 human partners:{P15924}  
18698 Pathogen[ P14079] interacts with 1 human partners:{P15924}  
18699 Pathogen[ P03383] interacts with 1 human partners:{P15924}  
18700 Pathogen[ P03410] interacts with 1 human partners:{P15924}  
18701 Pathogen[ P14075] interacts with 1 human partners:{P15924}  
18702 Pathogen[ P0C206] interacts with 1 human partners:{P15924}  
18703 Pathogen[ P03363] interacts with 1 human partners:{P15924}  
18704 [Cluster 1701]GO:0034048+P biological\_process [name] negative regulation of protein phosphatase type 2A activity [def] "Any process that stops or reduces the activity of the enzyme protein phosphatase type 2A." [GOC  
18705 Pathogen[ Q2Q067] interacts with 1 human partners:{075663}  
18706 Pathogen[ P0C214] interacts with 1 human partners:{075663}  
18707 Pathogen[ P03346] interacts with 1 human partners:{075663}  
18708 Pathogen[ Q85601] interacts with 1 human partners:{075663}  
18709 Pathogen[ P14079] interacts with 1 human partners:{075663}  
18710 Pathogen[ P03383] interacts with 1 human partners:{075663}  
18711 Pathogen[ P03410] interacts with 1 human partners:{075663}  
18712 Pathogen[ P14075] interacts with 1 human partners:{075663}  
18713 Pathogen[ P0C206] interacts with 1 human partners:{075663}  
18714 Pathogen[ P03363] interacts with 1 human partners:{075663}  
18715 [Cluster 1702]GO:2000740+P biological\_process [name] negative regulation of mesenchymal stem cell differentiation [def] "Any process that stops, prevents or reduces the frequency, rate or extent of mesenchymal stem cell differentiation." [GOC  
18716 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13127}  
18717 Pathogen[ P0C214] interacts with 1 human partners:{Q13127}  
18718 Pathogen[ P03346] interacts with 1 human partners:{Q13127}  
18719 Pathogen[ Q85601] interacts with 1 human partners:{Q13127}  
18720 Pathogen[ P14079] interacts with 1 human partners:{Q13127}  
18721 Pathogen[ P03383] interacts with 1 human partners:{Q13127}  
18722 Pathogen[ P03410] interacts with 1 human partners:{Q13127}  
18723 Pathogen[ P14075] interacts with 1 human partners:{Q13127}  
18724 Pathogen[ P0C206] interacts with 1 human partners:{Q13127}  
18725 Pathogen[ P03363] interacts with 1 human partners:{Q13127}  
18726 [Cluster 1703]GO:0045216+P biological\_process [name] cell-cell junction organization [def] "A process that is carried out at the cellular level which results in the assembly, arrangement of constituent parts, or disassembly of a cell-cell junction. A cell-cell junction is a specialized region of connection between two cells." [GOC  
18727 Pathogen[ Q2Q067] interacts with 7 human partners:{Q8NI35;Q9NPB6;Q9BYG5;P84022;P63000;Q9BYG4;O60716}  
18728 Pathogen[ P0C214] interacts with 9 human partners:{P60709;P63000;Q8NI35;O60716;P84022;Q9NPB6;Q9BYG5;P63261;Q9BYG4}  
18729 Pathogen[ P03346] interacts with 11 human partners:{O60716;P60709;Q9NPB6;P55196;Q8TEW0;Q8NI35;P84022;Q8N3R9;Q9BYG5;Q9BYG4;P63000}  
18730 Pathogen[ Q85601] interacts with 9 human partners:{Q9BYG5;P63000;P60709;O60716;Q8NI35;P63261;Q9NPB6;P84022;Q9BYG4}  
18731 Pathogen[ P14079] interacts with 14 human partners:{P63261;Q8N7P3;Q9BYG5;P56750;Q8TEW0;Q8NI35;Q9BYG4;P60709;Q96B33;Q8N3R9;Q16625;Q9NPB6;O60716;Q96A59}  
18732 Pathogen[ P03383] interacts with 6 human partners:{O60716;P63000;P84022;Q9BYG5;Q9NPB6;Q9BYG4}  
18733 Pathogen[ P03410] interacts with 16 human partners:{P84022;Q96B33;Q8N7P3;P63000;O60716;Q8NI35;Q96A59;Q16625;Q8TEW0;Q9NPB6;P63261;P56750;Q9BYG4;Q8N3R9;P60709;Q9BYG5}  
18734 Pathogen[ P14075] interacts with 6 human partners:{Q9BYG4;P63000;Q9BYG5;Q9NPB6;P84022;O60716}  
18735 Pathogen[ P0C206] interacts with 12 human partners:{P84022;O60716;P60709;Q9BYG5;Q8N3R9;Q8TEW0;P63000;P55196;P63261;Q8NI35;Q9NPB6;Q9BYG4}  
18736 Pathogen[ P03363] interacts with 10 human partners:{P60709;Q9NPB6;Q9BYG4;P63000;Q8N3R9;P84022;Q9BYG5;Q8NI35;P63261;O60716}  
18737 [Cluster 1704]GO:0034613+P biological\_process [name] cellular protein localization [def] "Any process in which a protein is transported to, and/or maintained in, a specific location at the level of a cell. Localization at the cellular level encompasses

movement within the cell, from within the cell to the cell surface, or from one location to another at the surface of a cell." [GOC

18738 Pathogen[ Q2Q067] interacts with 8 human partners:{Q99502;Q6VY07;Q96ST3;Q96IF1;O14641;Q96CV9;P60953;P47928}

18739 Pathogen[ P0C214] interacts with 7 human partners:{P60953;P47928;O14641;Q6VY07;Q96CV9;Q96ST3;Q99502}

18740 Pathogen[ P03346] interacts with 9 human partners:{Q96ST3;Q96IF1;P60953;Q99502;Q96CV9;O14641;Q8N157;Q6VY07;P47928}

18741 Pathogen[ Q85601] interacts with 8 human partners:{Q96CV9;O14641;Q6VY07;Q99502;Q96IF1;P60953;P47928;Q96ST3}

18742 Pathogen[ P14079] interacts with 12 human partners:{Q6VY07;Q99502;Q9Y2Q5;Q96ST3;O14641;Q8N157;Q9UHA4;Q96IF1;Q6IAA8;O15259;Q96CV9;P47928}

18743 Pathogen[ P03383] interacts with 6 human partners:{P60953;Q6VY07;O14641;Q96ST3;Q96CV9;P47928}

18744 Pathogen[ P03410] interacts with 13 human partners:{Q9Y2Q5;Q99502;O15259;Q96ST3;Q9UHA4;Q96IF1;Q96CV9;Q8N157;P47928;Q6IAA8;P60953;Q6VY07;O14641}

18745 Pathogen[ P14075] interacts with 7 human partners:{P60953;Q96ST3;P47928;O14641;Q96CV9;Q99502;Q6VY07}

18746 Pathogen[ P0C206] interacts with 9 human partners:{Q96ST3;Q9UHA4;Q96IF1;Q96CV9;Q6VY07;Q8N157;P60953;Q99502;P47928}

18747 Pathogen[ P03363] interacts with 9 human partners:{Q96CV9;Q6VY07;Q96IF1;Q8N157;Q96ST3;P47928;O15259;O14641;P60953}

18748 [Cluster 1705]GO:0046847+P biological\_process [name] filopodium assembly [def] "The assembly of a filopodium, a thin, stiff protrusion extended by the leading edge of a motile cell such as a crawling fibroblast or amoeba, or an axonal growth cone." [GOC

18749 Pathogen[ Q2Q067] interacts with 2 human partners:{P60953;Q9NR46}

18750 Pathogen[ P0C214] interacts with 2 human partners:{P60953;Q9NR46}

18751 Pathogen[ P03346] interacts with 3 human partners:{P60953;Q9Y371;Q9NR46}

18752 Pathogen[ Q85601] interacts with 2 human partners:{P60953;Q9NR46}

18753 Pathogen[ P14079] interacts with 2 human partners:{Q9NR46;Q9Y371}

18754 Pathogen[ P03383] interacts with 2 human partners:{P60953;Q9NR46}

18755 Pathogen[ P03410] interacts with 3 human partners:{Q9NR46;Q9Y371;P60953}

18756 Pathogen[ P14075] interacts with 2 human partners:{P60953;Q9NR46}

18757 Pathogen[ P0C206] interacts with 2 human partners:{Q9NR46;P60953}

18758 Pathogen[ P03363] interacts with 2 human partners:{Q9NR46;P60953}

18759 [Cluster 1706]GO:0071157+P biological\_process [name] negative regulation of cell cycle arrest [def] "Any process that decreases the rate, frequency, or extent of cell cycle arrest, the process in which the cell cycle is halted during one of the normal phases." [GOC

18760 Pathogen[ Q2Q067] interacts with 5 human partners:{Q01664;P50750;Q9NS23;Q9NP71;Q00987}

18761 Pathogen[ P0C214] interacts with 5 human partners:{Q9NS23;P50750;Q00987;Q9NP71;Q01664}

18762 Pathogen[ P03346] interacts with 6 human partners:{Q00987;Q9NP71;P50750;O15151;Q9NS23;Q01664}

18763 Pathogen[ Q85601] interacts with 6 human partners:{P50750;O15151;Q9NS23;Q9NP71;Q00987;Q01664}

18764 Pathogen[ P14079] interacts with 6 human partners:{Q9NS23;Q00987;Q01664;O15151;Q9NP71;P50750}

18765 Pathogen[ P03383] interacts with 3 human partners:{Q9NP71;Q01664;P50750}

18766 Pathogen[ P03410] interacts with 6 human partners:{O15151;Q9NS23;P50750;Q9NP71;Q01664;Q00987}

18767 Pathogen[ P14075] interacts with 3 human partners:{P50750;Q9NP71;Q01664}

18768 Pathogen[ P0C206] interacts with 6 human partners:{Q9NP71;P50750;O15151;Q01664;Q00987;Q9NS23}

18769 Pathogen[ P03363] interacts with 5 human partners:{O15151;Q9NS23;P50750;Q9NP71;Q01664}

18770 [Cluster 1707]GO:0014044+P biological\_process [name] Schwann cell development [def] "The process aimed at the progression of a Schwann cell over time, from initial commitment of the cell to a specific fate, to the fully functional differentiated cell. Schwann cells are found in the peripheral nervous system, where they insulate neurons and axons, and regulate the environment in which neurons function." [GOC

18771 Pathogen[ Q2Q067] interacts with 2 human partners:{Q03052;P20265}

18772 Pathogen[ P0C214] interacts with 2 human partners:{Q03052;P20265}

18773 Pathogen[ P03346] interacts with 2 human partners:{Q03052;P20265}

18774 Pathogen[ Q85601] interacts with 2 human partners:{Q03052;P20265}

18775 Pathogen[ P14079] interacts with 3 human partners:{P20265;Q14118;Q03052}

18776 Pathogen[ P03383] interacts with 1 human partners:{P20265}

18777 Pathogen[ P03410] interacts with 3 human partners:{Q03052;Q14118;P20265}

18778 Pathogen[ P14075] interacts with 1 human partners:{P20265}

18779 Pathogen[ P0C206] interacts with 2 human partners:{Q03052;P20265}

18780 Pathogen[ P03363] interacts with 2 human partners:{P20265;Q03052}

18781 [Cluster 1708]GO:0021513+P biological\_process [name] spinal cord dorsal/ventral patterning [def] "The process that regulates the coordinated growth and differentiation

that establishes the non-random dorsal-ventral spatial arrangement of the spinal cord." [GO\_REF

18782 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UMX1}

18783 Pathogen[ P0C214] interacts with 1 human partners:{Q9UMX1}

18784 Pathogen[ P03346] interacts with 1 human partners:{Q9UMX1}

18785 Pathogen[ Q85601] interacts with 1 human partners:{Q9UMX1}

18786 Pathogen[ P14079] interacts with 1 human partners:{Q9UMX1}

18787 Pathogen[ P03383] interacts with 1 human partners:{Q9UMX1}

18788 Pathogen[ P03410] interacts with 1 human partners:{Q9UMX1}

18789 Pathogen[ P14075] interacts with 1 human partners:{Q9UMX1}

18790 Pathogen[ P0C206] interacts with 1 human partners:{Q9UMX1}

18791 Pathogen[ P03363] interacts with 1 human partners:{Q9UMX1}

18792 [Cluster 1709]GO:0006631+P biological\_process [name] fatty acid metabolic process [def] "The chemical reactions and pathways involving fatty acids, aliphatic monocarboxylic acids liberated from naturally occurring fats and oils by hydrolysis." [ISBN

18793 Pathogen[ Q2Q067] interacts with 13 human partners:{Q9H5J4;P30084;Q5T1C6;P05413;Q9BW60;Q9GZR5;Q92539;Q15185;A1L3X0;Q9HB03;Q03060;Q16836;Q14693}

18794 Pathogen[ P0C214] interacts with 24 human partners:{P30084;Q75608;Q9NXXB9;Q9GZR5;P40939;P05413;Q9Y2S2;Q9HB03;Q14561;Q8TBF2;Q9NY P7;P23786;Q13011;Q92539;A1L3X0;Q14832;Q9BQK8;Q86SG2;Q03060;P42765;Q9BW60;Q5T1C6;Q15185;Q14693}

18795 Pathogen[ P03346] interacts with 14 human partners:{Q9BW60;Q75608;P05413;Q16836;Q86SG2;Q15185;P23786;Q92539;Q9H5J4;Q9HB03;P42765;Q03060;P30084;Q14693}

18796 Pathogen[ Q85601] interacts with 14 human partners:{A1L3X0;Q86SG2;P05413;Q9BW60;Q9H5J4;Q9HB03;Q15185;Q16836;Q9GZR5;Q5T1C6;Q92539;P30084;Q03060;Q14693}

18797 Pathogen[ P14079] interacts with 22 human partners:{Q9BQK8;Q14693;A1L3X0;Q03060;P30084;Q86SG2;P05413;Q75608;Q95822;Q9HB03;Q92539;Q14832;Q5T1C6;Q9Y478;Q14561;Q15185;Q8TBF2;Q9GZR5;Q9BW60;Q9H5J4;Q16836;Q8WXI4}

18798 Pathogen[ P03383] interacts with 11 human partners:{Q9BW60;Q9GZR5;Q9H5J4;Q16836;A1L3X0;Q9HB03;Q15185;Q5T1C6;Q92539;Q03060;Q14693}

18799 Pathogen[ P03410] interacts with 24 human partners:{A1L3X0;Q9BQK8;P30084;Q9GZR5;Q9H5J4;P05413;Q13011;Q03060;P23786;Q14693;P42765;Q8WXI4;Q5T1C6;Q75608;Q9BW60;Q14561;Q15185;Q14832;Q86SG2;Q16836;Q9HB03;Q92539;Q8TBF2;Q95822}

18800 Pathogen[ P14075] interacts with 13 human partners:{Q9H5J4;Q9BW60;Q9HB03;Q5T1C6;Q14561;Q15185;A1L3X0;Q92539;Q16836;Q9GZR5;Q14832;Q03060;Q14693}

18801 Pathogen[ P0C206] interacts with 21 human partners:{Q92539;Q03060;Q8WXI4;Q9HB03;Q75608;Q16836;Q15185;Q14832;Q8TBF2;P23786;Q9H5J4;P05413;Q14561;P30084;Q86SG2;Q9BQK8;Q5T1C6;Q9GZR5;Q14693;A1L3X0;Q9BW60}

18802 Pathogen[ P03363] interacts with 7 human partners:{Q16836;Q9H5J4;Q92539;P05413;Q86SG2;Q15185;Q03060}

18803 [Cluster 1710]GO:0060716+P biological\_process [name] labyrinthine layer blood vessel development [def] "The process whose specific outcome is the progression of a blood vessel of the labyrinthine layer of the placenta over time, from its formation to the mature structure. The embryonic vessels grow through the layer to come in close contact with the maternal blood supply." [GOC

18804 Pathogen[ Q2Q067] interacts with 5 human partners:{P31749;Q06330;Q14686;Q9Y5J3;Q8N693}

18805 Pathogen[ P0C214] interacts with 6 human partners:{Q8N693;P17275;Q9Y5J3;Q06330;Q14686;P31749}

18806 Pathogen[ P03346] interacts with 7 human partners:{Q06330;P17275;Q8N693;Q9Y5J3;P31749;Q8N3Y1;Q14686}

18807 Pathogen[ Q85601] interacts with 7 human partners:{P31749;Q06330;Q14686;Q8N3Y1;Q8N693;P17275;Q9Y5J3}

18808 Pathogen[ P14079] interacts with 6 human partners:{Q8N693;Q8N3Y1;Q06330;Q9Y5J3;P17275;Q14686}

18809 Pathogen[ P03383] interacts with 5 human partners:{Q06330;P31749;Q14686;Q8N693;P17275}

18810 Pathogen[ P03410] interacts with 7 human partners:{Q9Y5J3;Q06330;Q14686;P31749;P17275;Q8N3Y1;Q8N693}

18811 Pathogen[ P14075] interacts with 5 human partners:{Q14686;P17275;P31749;Q8N693;Q06330}

18812 Pathogen[ P0C206] interacts with 7 human partners:{P31749;Q06330;P17275;Q8N3Y1;Q9Y5J3;Q14686;Q8N693}

18813 Pathogen[ P03363] interacts with 7 human partners:{Q9Y5J3;Q06330;Q8N693;Q14686;P17275;P31749;Q8N3Y1}

18814 [Cluster 1711]GO:0043011+P biological\_process [name] myeloid dendritic cell differentiation [def] "The process in which a monocyte acquires the specialized features of a dendritic cell, an immunocompetent cell of the lymphoid and hemopoietic systems and skin." [CL

18815 Pathogen[ Q2Q067] interacts with 4 human partners:{Q01201;Q15306;O15205;P17947}  
18816 Pathogen[ P0C214] interacts with 4 human partners:{P17947;Q01201;O15205;Q15306}  
18817 Pathogen[ P03346] interacts with 4 human partners:{Q01201;Q15306;O15205;P17947}  
18818 Pathogen[ Q85601] interacts with 4 human partners:{Q15306;O15205;Q01201;P17947}  
18819 Pathogen[ P14079] interacts with 5 human partners:{Q9H295;Q15306;Q01201;O15205;P04141}  
18820 Pathogen[ P03383] interacts with 4 human partners:{Q15306;Q01201;O15205;P17947}  
18821 Pathogen[ P03410] interacts with 5 human partners:{P04141;O15205;P17947;Q15306;Q01201}  
18822 Pathogen[ P14075] interacts with 4 human partners:{Q01201;Q15306;P17947;O15205}  
18823 Pathogen[ P0C206] interacts with 4 human partners:{Q15306;O15205;Q01201;P17947}  
18824 Pathogen[ P03363] interacts with 4 human partners:{O15205;P17947;Q15306;Q01201}  
18825 [Cluster 1712]GO:0051100+P biological\_process [name] negative regulation of binding [def] "Any process that stops or reduces the rate or extent of binding, the selective interaction of a molecule with one or more specific sites on another molecule." [GOC  
18826 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9Y2T7}  
18827 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y2T7}  
18828 Pathogen[ P03346] interacts with 1 human partners:{Q9Y2T7}  
18829 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y2T7}  
18830 Pathogen[ P14079] interacts with 1 human partners:{Q9Y2T7}  
18831 Pathogen[ P03383] interacts with 1 human partners:{Q9Y2T7}  
18832 Pathogen[ P03410] interacts with 1 human partners:{Q9Y2T7}  
18833 Pathogen[ P14075] interacts with 1 human partners:{Q9Y2T7}  
18834 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y2T7}  
18835 Pathogen[ P03363] interacts with 1 human partners:{Q9Y2T7}  
18836 [Cluster 1713]GO:0060765+P biological\_process [name] regulation of androgen receptor signaling pathway [def] "Any process that modulates the rate, frequency, or extent of the androgen receptor signaling pathway." [GOC  
18837 Pathogen[ Q2Q067] interacts with 4 human partners:{Q99497;P55345;Q9Y252;Q9UBS8}  
18838 Pathogen[ P0C214] interacts with 4 human partners:{Q99497;P55345;Q9UBS8;Q9Y252}  
18839 Pathogen[ P03346] interacts with 4 human partners:{P55345;Q99497;Q9UBS8;Q9Y252}  
18840 Pathogen[ Q85601] interacts with 4 human partners:{Q99497;Q9Y252;Q9UBS8;P55345}  
18841 Pathogen[ P14079] interacts with 3 human partners:{Q99497;P55345;Q9UBS8}  
18842 Pathogen[ P03383] interacts with 2 human partners:{Q9UBS8;Q9Y252}  
18843 Pathogen[ P03410] interacts with 3 human partners:{Q99497;Q9UBS8;P55345}  
18844 Pathogen[ P14075] interacts with 2 human partners:{Q9Y252;Q9UBS8}  
18845 Pathogen[ P0C206] interacts with 4 human partners:{Q99497;Q9UBS8;P55345;Q9Y252}  
18846 Pathogen[ P03363] interacts with 2 human partners:{Q9Y252;Q9UBS8}  
18847 [Cluster 1714]GO:0021615+P biological\_process [name] glossopharyngeal nerve morphogenesis [def] "The process in which the anatomical structure of the glossopharyngeal nerve is generated and organized. Various sensory and motor branches of the glossopharyngeal nerve supply nerve connections to the pharynx and back of the tongue. The branchial motor component contains motor fibers that innervate muscles that elevate the pharynx and larynx, and the tympanic branch supplies parasympathetic fibers to the otic ganglion." [GO\_REF  
18848 Pathogen[ Q2Q067] interacts with 2 human partners:{O43365;P14651}  
18849 Pathogen[ P0C214] interacts with 3 human partners:{O43365;P31249;P14651}  
18850 Pathogen[ P03346] interacts with 3 human partners:{P31249;O43365;P14651}  
18851 Pathogen[ Q85601] interacts with 3 human partners:{P31249;P14651;O43365}  
18852 Pathogen[ P14079] interacts with 3 human partners:{P31249;O43365;P14651}  
18853 Pathogen[ P03383] interacts with 3 human partners:{O43365;P31249;P14651}  
18854 Pathogen[ P03410] interacts with 3 human partners:{P14651;P31249;O43365}  
18855 Pathogen[ P14075] interacts with 2 human partners:{P31249;O43365}  
18856 Pathogen[ P0C206] interacts with 3 human partners:{O43365;P14651;P31249}  
18857 Pathogen[ P03363] interacts with 3 human partners:{O43365;P14651;P31249}  
18858 [Cluster 1715]GO:0021903+P biological\_process [name] rostrocaudal neural tube patterning [def] "The process in which the neural tube is divided into specific regions along the rostrocaudal axis." [GO\_REF  
18859 Pathogen[ Q2Q067] interacts with 1 human partners:{P35226}  
18860 Pathogen[ P0C214] interacts with 1 human partners:{P35226}  
18861 Pathogen[ P03346] interacts with 1 human partners:{P35226}  
18862 Pathogen[ Q85601] interacts with 1 human partners:{P35226}  
18863 Pathogen[ P14079] interacts with 1 human partners:{P35226}  
18864 Pathogen[ P03383] interacts with 1 human partners:{P35226}  
18865 Pathogen[ P03410] interacts with 1 human partners:{P35226}  
18866 Pathogen[ P14075] interacts with 1 human partners:{P35226}  
18867 Pathogen[ P0C206] interacts with 1 human partners:{P35226}  
18868 Pathogen[ P03363] interacts with 1 human partners:{P35226}  
18869 [Cluster 1716]GO:0030099+P biological\_process [name] myeloid cell differentiation [def] "The process in which a relatively unspecialized myeloid precursor cell acquires the specialized features of any cell of the myeloid leukocyte, megakaryocyte, thrombocyte, or erythrocyte lineages." [GOC  
18870 Pathogen[ Q2Q067] interacts with 11 human partners:{Q16666;Q01196;Q05516;P15976;P09629;Q15744;O00625;Q13951;Q02556;Q14686;P49715}  
18871 Pathogen[ P0C214] interacts with 7 human

18872 partners:{Q16666;Q14686;Q02556;P09629;O00625;Q05516;Q13951}  
Pathogen[ P03346] interacts with 14 human  
partners:{Q16666;P49715;Q92794;P17542;P15976;Q02556;Q13951;P09629;Q15744;Q05516;Q9H7Z6;Q01196;O00625;Q14686}

18873 Pathogen[ Q85601] interacts with 11 human  
partners:{P09629;Q16666;Q02556;P15976;Q13951;Q9H7Z6;Q14686;Q15744;Q05516;P49715;O00625}

18874 Pathogen[ P14079] interacts with 11 human  
partners:{O00625;Q05516;P15976;Q15744;P09629;Q6N021;P49715;Q02556;Q13951;Q14686;Q16666}

18875 Pathogen[ P03383] interacts with 7 human  
partners:{Q14686;Q05516;Q13951;O00625;Q16666;Q02556;P09629}

18876 Pathogen[ P03410] interacts with 9 human  
partners:{Q16666;P09629;Q14686;Q6N021;Q02556;O00625;Q13951;Q15744;P15976}

18877 Pathogen[ P14075] interacts with 7 human  
partners:{Q13951;Q14686;O00625;Q16666;Q02556;P09629;Q05516}

18878 Pathogen[ P0C206] interacts with 11 human  
partners:{Q15744;Q05516;Q13951;Q16666;O00625;P49715;P15976;Q02556;Q14686;P09629;Q9H7Z6}

18879 Pathogen[ P03363] interacts with 8 human  
partners:{Q02556;Q15744;Q14686;Q16666;Q13951;O00625;P09629;Q05516}

18880 [Cluster 1717]GO:0043523+P biological\_process [name] regulation of neuron apoptosis [def] "Any process that modulates the occurrence or rate of cell death by apoptosis in neurons." [GOC

18881 Pathogen[ Q2Q067] interacts with 5 human  
partners:{Q99497;Q96B36;O15350;Q96KS0;Q9H6Z9}

18882 Pathogen[ P0C214] interacts with 5 human  
partners:{O15350;Q96KS0;Q99497;Q9H6Z9;Q96B36}

18883 Pathogen[ P03346] interacts with 6 human  
partners:{O15350;Q96B36;Q9C040;Q99497;Q96KS0;Q9H6Z9}

18884 Pathogen[ Q85601] interacts with 5 human  
partners:{Q99497;Q9H6Z9;Q96B36;Q96KS0;O15350}

18885 Pathogen[ P14079] interacts with 5 human  
partners:{Q99497;O15350;Q9H6Z9;Q96B36;Q96KS0}

18886 Pathogen[ P03383] interacts with 4 human partners:{Q96B36;Q96KS0;Q9H6Z9;O15350}

18887 Pathogen[ P03410] interacts with 5 human  
partners:{Q99497;Q96KS0;Q9H6Z9;Q96B36;O15350}

18888 Pathogen[ P14075] interacts with 4 human partners:{Q96KS0;Q96B36;O15350;Q9H6Z9}

18889 Pathogen[ P0C206] interacts with 5 human  
partners:{Q96KS0;Q96B36;Q99497;Q9H6Z9;O15350}

18890 Pathogen[ P03363] interacts with 3 human partners:{Q96B36;Q9H6Z9;Q9C040}

18891 [Cluster 1718]GO:0042059+P biological\_process [name] negative regulation of epidermal growth factor receptor signaling pathway [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of epidermal growth factor receptor signaling pathway activity." [GOC

18892 Pathogen[ Q2Q067] interacts with 20 human  
partners:{Q92783;O94973;O95782;Q96B97;P63010;O75886;Q96CW1;Q9UJM3;Q9HCC9;Q00610;P37198;Q99962;P0CG47;P0CG48;P60953;O14964;P62987;P09496;P22681;P62979}

18893 Pathogen[ P0C214] interacts with 22 human  
partners:{P22681;Q96CW1;P62993;Q9UJM3;O14964;P60953;O75886;Q9Y6I3;Q99962;P63010;P37198;Q9HCC9;P0CG48;P62987;O94973;P0CG47;P09496;O95782;Q92783;P62979;P53680;Q96B97}

18894 Pathogen[ P03346] interacts with 24 human  
partners:{Q96B97;P63010;P62987;P53680;Q99962;P0CG48;O75886;O95782;P60953;P62993;P37198;P09496;Q96CW1;P42566;P62979;P0CG47;Q92783;O14964;P22681;Q9Y6I3;O94973;Q00610;Q9HC9;Q9UJM3}

18895 Pathogen[ Q85601] interacts with 22 human  
partners:{P22681;Q00610;P62993;P09496;Q96CW1;Q99962;P0CG48;O75886;Q9HCC9;Q96B97;P53680;Q92783;O14964;P62979;O94973;P0CG47;Q9UJM3;P60953;Q9Y6I3;P63010;P62987;O95782}

18896 Pathogen[ P14079] interacts with 22 human  
partners:{O75886;Q96CW1;P0CG48;Q00610;O43597;Q9UJM3;Q9Y6I3;P42566;Q92783;Q9HCC9;Q96B97;P62979;P62987;O95782;P37198;P63010;O94973;P62993;P0CG47;P53680;P09496;Q99962}

18897 Pathogen[ P03383] interacts with 16 human  
partners:{Q96CW1;Q00610;P62987;Q9UJM3;P60953;O75886;P63010;O95782;Q92783;P62979;P0CG47;P0CG48;P37198;O94973;O14964;Q9HCC9}

18898 Pathogen[ P03410] interacts with 22 human  
partners:{Q00610;P09496;O95782;Q96CW1;P0CG48;P53680;O43597;Q9Y6I3;Q92783;P62979;Q9HC9;P63010;P60953;P62987;Q96B97;Q99962;P62993;P42566;O94973;P0CG47;Q9UJM3;O75886}

18899 Pathogen[ P14075] interacts with 17 human  
partners:{P60953;P09496;O94973;Q96CW1;O75886;Q92783;Q9HCC9;P0CG48;P62979;O14964;Q9UJM3;O95782;P37198;P62987;P63010;P0CG47;Q00610}

18900 Pathogen[ P0C206] interacts with 24 human  
partners:{O14964;P53680;P63010;P0CG48;O94973;Q9HCC9;Q96B97;Q00610;Q99962;Q92783;P62993;P09496;P22681;Q96CW1;P62979;Q9Y6I3;O43597;P60953;O95782;P0CG47;Q9UJM3;P42566;P62987;O75886}

18901 Pathogen[ P03363] interacts with 16 human  
partners:{P22681;Q9HCC9;Q99962;O75886;Q92783;Q96B97;Q00610;O94973;P63010;P62987;O149

64;O95782;Q9UJM3;P37198;P60953;Q96CW1}

18902 [Cluster 1719]GO:0009159+P biological\_process [name] deoxyribonucleoside monophosphate catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of a deoxyribonucleoside monophosphate, a compound consisting of a nucleobase linked to a deoxyribose sugar esterified with phosphate on the sugar." [GOC

18903 Pathogen[ Q2Q067] interacts with 1 human partners:{O43598}

18904 Pathogen[ P0C214] interacts with 1 human partners:{O43598}

18905 Pathogen[ P03346] interacts with 1 human partners:{O43598}

18906 Pathogen[ Q85601] interacts with 1 human partners:{O43598}

18907 Pathogen[ P14079] interacts with 1 human partners:{O43598}

18908 Pathogen[ P03383] interacts with 1 human partners:{O43598}

18909 Pathogen[ P03410] interacts with 1 human partners:{O43598}

18910 Pathogen[ P14075] interacts with 1 human partners:{O43598}

18911 Pathogen[ P0C206] interacts with 1 human partners:{O43598}

18912 Pathogen[ P03363] interacts with 1 human partners:{O43598}

18913 [Cluster 1720]GO:0048705+P biological\_process [name] skeletal system morphogenesis [def] "The process in which the anatomical structures of the skeleton are generated and organized." [GOC

18914 Pathogen[ Q2Q067] interacts with 5 human partners:{Q96S65;P17483;Q9NZC7;Q14865;P14652}

18915 Pathogen[ P0C214] interacts with 3 human partners:{Q96S65;Q14865;Q9NZC7}

18916 Pathogen[ P03346] interacts with 12 human partners:{Q96S65;P14652;P13378;P17483;P17481;Q9NZC7;O75569;P31273;Q15475;P78367;Q14865;Q9HB21}

18917 Pathogen[ Q85601] interacts with 4 human partners:{Q9NZC7;Q96S65;Q9HB21;Q14865}

18918 Pathogen[ P14079] interacts with 6 human partners:{P35475;Q14865;O75569;Q96S65;Q9NZC7;Q9HB21}

18919 Pathogen[ P03383] interacts with 1 human partners:{Q96S65}

18920 Pathogen[ P03410] interacts with 5 human partners:{Q9NZC7;Q9HB21;O75569;Q96S65;Q14865}

18921 Pathogen[ P14075] interacts with 1 human partners:{Q96S65}

18922 Pathogen[ P0C206] interacts with 6 human partners:{Q96S65;P17483;P14652;Q9HB21;Q9NZC7;Q14865}

18923 Pathogen[ P03363] interacts with 9 human partners:{P31273;Q96S65;Q14865;P17481;P17483;P13378;P14652;P78367;O75569}

18924 [Cluster 1721]GO:0031274+P biological\_process [name] positive regulation of pseudopodium assembly [def] "Any process that activates or increases the frequency, rate or extent of the assembly of pseudopodia." [GOC

18925 Pathogen[ Q2Q067] interacts with 2 human partners:{Q00587;P60953}

18926 Pathogen[ P0C214] interacts with 2 human partners:{P60953;O14613}

18927 Pathogen[ P03346] interacts with 3 human partners:{Q00587;P60953;O14613}

18928 Pathogen[ Q85601] interacts with 2 human partners:{O14613;P60953}

18929 Pathogen[ P14079] interacts with 4 human partners:{O14613;Q6NZY7;Q00587;Q9H3Q1}

18930 Pathogen[ P03383] interacts with 2 human partners:{P60953;Q00587}

18931 Pathogen[ P03410] interacts with 5 human partners:{Q00587;Q9H3Q1;Q6NZY7;O14613;P60953}

18932 Pathogen[ P14075] interacts with 3 human partners:{P60953;Q00587;O14613}

18933 Pathogen[ P0C206] interacts with 3 human partners:{O14613;P60953;Q00587}

18934 Pathogen[ P03363] interacts with 3 human partners:{Q00587;O14613;P60953}

18935 [Cluster 1722]GO:0045905+P biological\_process [name] positive regulation of translational termination [def] "Any process that activates or increases the frequency, rate or extent of translational termination." [GOC

18936 Pathogen[ Q2Q067] interacts with 3 human partners:{P63241;Q6IS14;Q9GZV4}

18937 Pathogen[ P0C214] interacts with 3 human partners:{Q6IS14;Q9GZV4;P63241}

18938 Pathogen[ P03346] interacts with 3 human partners:{Q9GZV4;P63241;Q6IS14}

18939 Pathogen[ Q85601] interacts with 3 human partners:{Q9GZV4;P63241;Q6IS14}

18940 Pathogen[ P14079] interacts with 3 human partners:{Q6IS14;P63241;Q9GZV4}

18941 Pathogen[ P03383] interacts with 2 human partners:{Q9GZV4;P63241}

18942 Pathogen[ P03410] interacts with 3 human partners:{P63241;Q9GZV4;Q6IS14}

18943 Pathogen[ P14075] interacts with 2 human partners:{Q9GZV4;P63241}

18944 Pathogen[ P0C206] interacts with 3 human partners:{Q9GZV4;Q6IS14;P63241}

18945 Pathogen[ P03363] interacts with 3 human partners:{Q9GZV4;P63241;Q6IS14}

18946 [Cluster 1723]GO:0007028+P biological\_process [name] cytoplasm organization [def] "A process that is carried out at the cellular level which results in the assembly, arrangement of constituent parts, or disassembly of the cytoplasm. The cytoplasm is all of the contents of a cell excluding the plasma membrane and nucleus, but including other subcellular structures." [GOC

18947 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9NZI6;Q9NYV6}

18948 Pathogen[ P0C214] interacts with 2 human partners:{Q9NYV6;Q9NZI6}

18949 Pathogen[ P03346] interacts with 2 human partners:{Q9NZI6;Q9NYV6}

18950 Pathogen[ Q85601] interacts with 2 human partners:{Q9NZI6;Q9NYV6}

18951 Pathogen[ P14079] interacts with 2 human partners:{Q9NYV6;Q9NZI6}

18952 Pathogen[ P03383] interacts with 2 human partners:{Q9NYV6;Q9NZI6}

18953 Pathogen[ P03410] interacts with 3 human partners:{Q9NYV6;Q9NZI6;P33176}

18954 Pathogen[ P14075] interacts with 2 human partners:{Q9NYV6;Q9NZI6}

18955 Pathogen[ P0C206] interacts with 2 human partners:{Q9NZI6;Q9NYV6}

18956 Pathogen[ P03363] interacts with 3 human partners:{P33176;Q9NYV6;Q9NZI6}  
18957 [Cluster 1724]GO:0061180+P biological\_process [name] mammary gland epithelium development [def] "The process whose specific outcome is the progression of the mammary gland epithelium over time, from its formation to the mature structure. The mammary gland is a large compound sebaceous gland that in female mammals is modified to secrete milk." [GOC  
18958 Pathogen[ Q2Q067] interacts with 1 human partners:{P35548}  
18959 Pathogen[ P0C214] interacts with 1 human partners:{P35548}  
18960 Pathogen[ P03346] interacts with 1 human partners:{P35548}  
18961 Pathogen[ Q85601] interacts with 1 human partners:{P35548}  
18962 Pathogen[ P14079] interacts with 1 human partners:{P28360}  
18963 Pathogen[ P03383] interacts with 1 human partners:{P35548}  
18964 Pathogen[ P03410] interacts with 1 human partners:{P35548}  
18965 Pathogen[ P14075] interacts with 1 human partners:{P35548}  
18966 Pathogen[ P0C206] interacts with 1 human partners:{P35548}  
18967 Pathogen[ P03363] interacts with 1 human partners:{P35548}  
18968 [Cluster 1725]GO:0090051+P biological\_process [name] negative regulation of cell migration involved in sprouting angiogenesis [def] "Any process that decreases the frequency, rate or extent of cell migration involved in sprouting angiogenesis. Cell migration involved in sprouting angiogenesis is the orderly movement of endothelial cells into the extracellular matrix in order to form new blood vessels contributing to the process of sprouting angiogenesis." [GOC  
18969 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UQL6}  
18970 Pathogen[ P0C214] interacts with 1 human partners:{Q9UQL6}  
18971 Pathogen[ P03346] interacts with 1 human partners:{Q9UQL6}  
18972 Pathogen[ Q85601] interacts with 1 human partners:{Q9UQL6}  
18973 Pathogen[ P14079] interacts with 1 human partners:{Q9UQL6}  
18974 Pathogen[ P03383] interacts with 1 human partners:{Q9UQL6}  
18975 Pathogen[ P03410] interacts with 1 human partners:{Q9UQL6}  
18976 Pathogen[ P14075] interacts with 1 human partners:{Q9UQL6}  
18977 Pathogen[ P0C206] interacts with 1 human partners:{Q9UQL6}  
18978 Pathogen[ P03363] interacts with 1 human partners:{Q9UQL6}  
18979 [Cluster 1726]GO:0043524+P biological\_process [name] negative regulation of neuron apoptosis [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of cell death by apoptosis in neurons." [GOC  
18980 Pathogen[ Q2Q067] interacts with 14 human partners:{Q9H2P0;Q99497;O60260;Q9BZE3;Q01105;O15350;Q8NHM5;O15405;Q99966;Q16143;Q13426;Q15819;P06744;P61586}  
18981 Pathogen[ P0C214] interacts with 15 human partners:{O15350;Q9BZE3;P61586;Q99497;Q01105;Q99966;Q15819;Q13426;P49588;P05412;Q16143;O60260;O15405;Q9H2P0;Q8NHM5}  
18982 Pathogen[ P03346] interacts with 19 human partners:{P05412;Q99966;Q9H2P0;Q9BZE3;Q01105;Q9UIU6;Q13426;P56177;O15350;Q15475;Q16143;Q99497;O60260;P06744;Q8NHM5;O43543;O15405;P61586;Q15819}  
18983 Pathogen[ Q85601] interacts with 15 human partners:{Q99497;Q9BZE3;Q01105;Q99966;Q13426;P06744;O15405;Q8NHM5;P05412;Q9H2P0;P61586;O60260;O15350;Q16143;Q15819}  
18984 Pathogen[ P14079] interacts with 19 human partners:{O60260;Q01105;Q06413;Q15819;O15405;Q99497;Q99966;Q16143;P06744;Q8NHM5;Q9H2P0;O15350;Q9BZE3;P61586;O43543;P05412;P49588;Q13426;P49917}  
18985 Pathogen[ P03383] interacts with 9 human partners:{Q01105;O15405;P06744;O60260;P61586;Q15819;Q13426;O15350;P05412}  
18986 Pathogen[ P03410] interacts with 15 human partners:{P06744;Q99497;P49588;O15405;Q9BZE3;Q16143;Q01105;O60260;Q15819;P61586;Q13426;P05412;O43543;O15350;Q99966}  
18987 Pathogen[ P14075] interacts with 9 human partners:{Q15819;P06744;P05412;Q01105;O15350;O15405;P61586;Q13426;O60260}  
18988 Pathogen[ P0C206] interacts with 18 human partners:{P05412;Q99497;O15405;P61586;Q9BZE3;P06744;P49917;Q13426;O60260;Q16143;Q8NHM5;Q15819;Q99966;O15350;O43543;Q9H2P0;Q01105;P56177}  
18989 Pathogen[ P03363] interacts with 10 human partners:{P06744;P56177;Q9H2P0;Q9BZE3;Q13426;P05412;O15405;Q01105;Q16143;Q15819}  
18990 [Cluster 1727]GO:0018126+P biological\_process [name] protein hydroxylation [def] "The addition of a hydroxy group to a protein amino acid." [GOC  
18991 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9H6Z9}  
18992 Pathogen[ P0C214] interacts with 1 human partners:{Q9H6Z9}  
18993 Pathogen[ P03346] interacts with 1 human partners:{Q9H6Z9}  
18994 Pathogen[ Q85601] interacts with 1 human partners:{Q9H6Z9}  
18995 Pathogen[ P14079] interacts with 1 human partners:{Q9H6Z9}  
18996 Pathogen[ P03383] interacts with 1 human partners:{Q9H6Z9}  
18997 Pathogen[ P03410] interacts with 1 human partners:{Q9H6Z9}  
18998 Pathogen[ P14075] interacts with 1 human partners:{Q9H6Z9}  
18999 Pathogen[ P0C206] interacts with 1 human partners:{Q9H6Z9}  
19000 Pathogen[ P03363] interacts with 1 human partners:{Q9H6Z9}  
19001 [Cluster 1728]GO:0010467+P biological\_process [name] gene expression [def] "The process in which a gene's sequence is converted into a mature gene product or products



(proteins or RNA). This includes the production of an RNA transcript as well as any processing to produce a mature RNA product or an mRNA (for protein-coding genes) and the translation of that mRNA into protein. Some protein processing events may be included when they are required to form an active form of a product from an inactive precursor form." [GOC

19002 Pathogen[ Q2Q067] interacts with 519 human partners: {O95363;P23588;Q92900;P05198;Q13573;P61313;P30153;O95602;P83369;Q15573;P33240;Q99460;P52434;Q92750;P83876;Q99613;P62701;Q92585;O00411;O75832;Q86U42;P48556;O15234;Q9H2U2;P49458;P47914;P23381;Q8IU60;P07910;P31749;P40306;P62312;Q8IZL2;Q9Y333;P46779;O14744;Q9UPN9;Q9HAW0;Q9Y3C7;Q9NQT4;P55036;Q9UPR3;P10827;P20226;Q96HR3;Q9HAU4;P55769;Q16594;O00303;P49591;P63104;P39687;P55265;P24278;O60841;Q86WQ0;Q13487;Q92664;Q96L15;P52272;O00267;Q02543;P61326;Q9NPJ6;O00231;Q8IZH2;P14866;P26373;O00233;P29692;Q15459;Q9H5Q4;Q9UBQ5;P62750;Q8IZD4;Q13889;P01106;P47813;P63151;P46937;Q16533;P62273;P67809;O95402;Q13485;Q9Y285;P10589;P51665;Q9Y2L1;P55795;Q01130;P13056;Q9NPI6;P62318;P62826;P62508;Q9BQA1;A5YKK6;Q9HCK5;P10828;Q15562;P15880;P40429;Q9H074;Q06265;P28072;P09132;Q96F86;Q8N684;P46782;Q9Y5Q8;O95400;P35268;O43390;Q9NRR4;Q13435;Q01105;P24534;P19388;Q5SXM2;Q96DI7;P52435;O43172;P49116;P22090;Q15046;Q99551;P49770;Q15181;P46778;Q9H944;Q9UK45;Q96C86;Q13868;Q9NSD9;P26641;Q8WTR7;Q13547;P38919;Q9BTT4;Q14103;A5LHX3;Q93074;Q9UBU9;P62888;P32780;Q99594;P32969;A6H8Y1;P62277;P18615;A6NFD8;Q9UKN8;Q6NZI2;Q15633;P30876;P19387;P62241;O75586;Q15542;Q13200;P61218;P62244;P05387;Q92759;O75448;Q92945;P25787;Q14152;P62861;P08107;Q060244;P52657;Q6ZNA4;Q8IXL2;P62476;Q06323;P67775;P04792;O75971;P05386;Q5T160;O75175;Q9Y3B2;Q07955;Q9BWJ5;Q9NPD3;Q86TB9;P08047;P11473;Q9BZ17;Q16629;Q9H9Y6;Q92973;Q14240;O60563;Q9UNX3;Q504Q3;Q8WYQ5;P30050;O94906;P28702;O43148;Q96I59;P54105;Q15561;P31943;O43776;P28065;Q12962;O14818;Q15629;P61077;P26196;Q10570;Q12996;P18077;P62891;Q9ULK4;P62314;P08621;Q13541;P11142;P61978;Q9HAU5;P29084;Q00059;Q96G25;P61927;Q5RKV6;Q9BUI4;P39023;Q92994;P38159;P52747;P62487;Q9UHI6;P62081;P61247;P62304;O14980;P55199;Q9UHB9;Q9UIV1;P84103;P61254;Q9UI10;P62249;Q8IYB3;Q05048;Q14186;O94913;P62280;Q14997;P83731;Q96F24;Q86V81;Q8IWZ8;P51948;Q92831;P60900;Q9UL46;P61289;P62263;Q86US8;Q15370;P12755;P84022;Q9UKZ1;P60866;P62906;P41252;Q15024;O95628;P51668;Q9H0W8;Q14232;P28347;Q02878;P46777;Q05519;P26368;P28062;Q12904;O00255;P62899;O15105;Q96G330;Q6P2Q9;P14859;Q9NRS0;Q15543;Q9UHV7;Q9GZV5;P49848;P08708;P50750;Q9UNM6;P08865;Q9Y5B0;Q07020;Q15544;Q9H9G7;P62913;P25788;Q8WXD5;Q08211;O00268;P09874;P62269;P60228;Q6P2C8;P08579;Q96PU5;Q16254;P52597;Q92530;P50613;P07814;Q9NVC6;P14678;Q9Y5S9;P62424;Q15329;P25786;Q9UFF9;Q01081;P62917;O75533;Q9GZN2;Q96RS0;Q8TEQ6;P62829;Q16514;O15116;P46783;Q8IYD1;Q9P2I0;P57678;P13984;P62495;P55055;Q13243;P09661;Q15796;P36578;Q9NVU0;Q15369;Q9UKV8;Q9C0C2;P62857;Q15366;Q16401;P62875;Q9HAV4;P24928;O43809;O00232;Q15029;P62847;Q15466;O75822;O15318;P28749;P09012;P49207;Q15583;P23193;Q13144;Q13155;P23396;Q09161;P28074;P54136;P25789;Q15572;Q93008;Q92540;Q9Y2X0;Q8IXH7;P12757;P35813;Q9BUJ2;Q9H3P2;P0CG47;P20042;Q7RTV0;P08235;P63173;Q12789;P18621;Q9NZN8;P31946;P52298;P52655;Q9Y618;P20618;P35269;Q15427;P11474;O43513;Q6PI48;P29083;P28316;Q92600;P49336;Q9HA77;O60583;P24863;Q9UKF6;P28070;P39019;Q14493;Q92793;Q9BW92;P28066;P41250;Q9UL18;Q14683;P61353;P63272;O15371;Q04637;P21675;P53803;Q99436;Q96RN5;Q8TAA3;Q14241;P62266;P42677;Q9Y3U8;O60508;P62306;P63220;Q9H840;P62841;Q9Y5B9;P83881;P62987;P26651;Q53T94;O43242;O6730;Q14188;P49589;O95453;P49721;Q71SY5;Q9Y535;P49720;P35637;P22626;P50914;P46776;O75376;Q8ND04;Q16637;P11940;P35658;Q9Y250;P05423;P62854;P17480;O43324;P62308;Q9P2J5;P62753;O14893;Q96JK9;P05388;O14802;Q12874;P60842;P22736;P18124;P62851;Q00839;Q9ULM6;P25398;Q15056;Q15361;Q15759;Q9NYV6;Q9H1D9;Q9Y4Z0;P62910;Q92901;Q9Y2S0;P68104;P46781;Q9H814;P14868;P62310;P27635;Q07352;O75821;Q13888;Q96B26;Q969L4;P42772;O15372;O15160;Q13347;P61513;Q15428;Q92966;P51946;Q8WX92;Q00403;O95149;Q08945;Q9Y4Y9;P62945;Q9H1J1;Q6P2E9;P51003;P62979}

19003 Pathogen[ P0C214] interacts with 531 human partners: {P62861;P41250;Q12996;Q9BZI7;P84098;O00268;Q14997;P61247;P51665;P60228;Q16637;P62312;Q92585;P51946;P24863;Q8WX92;O15234;Q9NZN8;O15116;P26368;A6H8Y1;P62316;Q16254;P49589;O00411;P25789;P35813;P83369;Q09161;Q9NSE4;Q96C86;P26196;Q8IX12;P15880;P55036;P62081;P42766;Q12904;Q9UI10;Q7L3T8;P62913;Q9HAU4;P22090;Q9Y533;Q13573;O43172;P11474;Q9UGM6;O60841;Q71SY5;P35637;O94913;Q92901;Q9Y5Q8;P28062;P62249;Q6P2E9;P62899;O95453;A5LHX3;Q13547;P38159;Q9UKF6;P12757;P62854;P30876;P28065;P39019;P62263;P60842;P49770;Q92664;P30153;Q15573;Q9H9Y6;Q96I59;O75586;Q9BUI4;P52657;Q8IZL2;Q9NP81;P21675;P53803;P84103;Q15361;P12081;Q9NPI6;Q9NVU0;Q86V81;Q96F24;P23381;Q9Y5S9;P51003;P62273;P52655;O60508;O95628;P35269;P50750;P62599;P23396;Q92900;P18077;O00267;P50613;P05388;O95400;Q9H814;O15372;Q9Y2L1;Q9Y2X0;P29084;P49590;P07814;P62847;P23588;O14818;P14678;Q9C0C2;Q9Y285;P62829;Q504Q3;P41252;Q15029;P26373;P62306;Q969L4;Q14152;Q93074;P52435;P55265;P17275;Q5J TZ9;Q92750;P27635;P57678;O43242;Q9Y3B2;P47813;P46778;Q92793;P67809;Q99613;P46937;Q05048;Q6P2Q9;P04792;P84022;Q9UKN8;Q9BWJ5;Q8IWZ8;Q9H1D9;Q15428;P16533;Q9GZV5;O75821;Q00403;Q96HR3;P61513;Q9NVC6;P29692;Q12962;P83881;Q15056;Q02386;P48556;Q9Y2S0;P28347;Q6NZI2;P61218;Q9HAV4;Q5SXM2;P40306;P62701;P49207;Q06330;P11940;Q15370;Q14232;P63220;Q10570;Q5RKV6;P26641;Q92540;P08865;Q9BTT4;P05121;Q8WXD5;P32969;Q5JPH6;Q02543;Q13200;O43776;P62266;Q9HAU5;O95149;O60244;Q15031;P62308;Q9Y4Z0;Q9UK45;P14868;O43148;P08579;O43390;Q16594;O00232;Q15366;P05423;Q8N684;P49591;Q12789;P24278;Q01105;Q15542;P62277;O94906;Q9UIV1;Q93008;Q9Y4Y9;P50914;P61077;Q9UPQ9;Q07955;P18615;Q9Y250;Q9H944;Q8IZH2;Q15561;P46779;Q07352;P55795;Q00059;Q15633;Q9Y3C7;Q9Y333;Q99460;P52298;P13056;P52272;P28066;O00303;O75832;Q92966;P62487;Q96RN5;P40429;Q9ULM6;P62314;P41091;Q86US8;P07910;Q14493;Q8IYB3;P47914;O43809;Q14186;P63173;P13639;P49116;O14980;Q9NPD3;P08621;Q13487;P56192;P46783;P51948;Q14103;P62180;P49720;P49336;P28074;P26639;Q9NRS0;P55769;P62280;P61326;A5YKK6;Q8TEQ6;Q9UNX3;P0CG48;Q9UL46;P38919;O43513;Q9Y3U8;Q92994;Q9H074;P30050;Q13485;P62753;P62910;Q8ND04;Q13144;P62891;Q15369;P35658;Q15572;O151

05;P55199;O60583;Q13243;Q14240;P63151;Q9UPR3;Q15427;P63272;Q15544;P83876;Q9P2I0;P49848;Q15329;P54577;P52597;P25788;Q9HG97;P62495;Q05519;Q7RTV0;P17480;P62269;O75376;Q9UNM6;P67775;Q86TB9;Q9BUJ2;Q15459;O00231;Q15796;Q9UHI6;O15318;P62318;Q8NDV7;Q99594;Q9NR4;Q9Y5B9;Q06323;P46781;Q13868;P25786;Q01081;Q96JK9;O75533;Q96RS0;Q96DI7;O43324;Q9NYV6;P33240;Q16514;Q9HA77;Q9NW08;Q8IYD1;P49588;P12755;Q96GW9;Q8IU60;P62875;P13984;P20226;P61254;Q12874;P28072;Q6P2C8;Q6ZNA4;P32780;Q9UKV8;P62841;Q8TAA3;Q9H840;Q15287;P24928;P62244;P52747;P26651;Q9UHV7;P62987;P62826;Q04637;P31943;O60563;P62304;Q07020;P42677;P62945;O15160;O75822;P28749;P09012;Q14683;Q92831;Q9Y535;O75448;P46776;P05198;Q8WTR7;Q99436;O95602;Q15629;Q15759;P0CG47;P25787;P62241;P46777;O14893;P55884;Q9Y5B0;P24534;Q13888;P83731;P09661;Q9UKZ1;Q92973;Q9UFF9;P35268;Q9HCK5;Q5T160;P47897;Q9UHB9;Q9BW92;Q87424;P52434;Q08945;Q8IXH7;Q6PI48;Q08211;P60866;P62857;O75971;Q92600;Q9HAW0;Q13435;Q00839;P49458;P35998;P60900;Q53T94;P61313;Q15181;P08708;Q9H3P2;Q92945;P20042;Q9HCJ0;P19387;P05387;P25398;P22626;P10828;P23193;O00233;P19388;Q9H0W8;Q9UBQ5;Q15543;P51668;Q9NSD9;P26640;Q96LI5;Q15046;Q15562;P61927;Q96G25;P31946;P62750;Q9ULK4;P62979;P05386;Q06265;P09132;P08107;P62851;Q86U42;P06730;Q5ST30;Q9Y618;P62508;Q9UPN9;Q15365;P46782;Q75175;Q8WYQ5;P39687;Q92530;P14859;Q15008;P18124;Q9NQ4;Q86WQ0;P01106;O95402;Q96F86;Q99551;Q9UL18;O14802;Q14188;Q9NPJ6;P28070;Q92759;P08047;Q96B26;O00255;Q16629;P42772;P31749;P61353;P14866;P36578;Q13155;P20618;P29083;Q15466;Q96PU5;Q9UBU9;Q9Y2Z4;P09874;P49721;Q16401;O15371;P18621;Q13541;Q9H5Q4;Q01130;P17980;Q13347;P62906;Q8IZD4;P1142;Q02878;Q9P2J5;Q14241;Q9H1J1}

19004

Pathogen[ P03346] interacts with 545 human

partners: {P08107;Q9UPR3;Q9NVU0;Q06330;Q9Y5S9;P54105;O95400;Q9BZI7;P25787;Q9UPN9;P23381;Q15427;P05387;P51991;Q92585;P46779;Q12874;Q15542;Q5RKV6;Q9H2U2;Q86U42;O15234;P61978;P28070;Q15562;P46937;Q13487;Q13263;Q15370;Q504Q3;Q9ULM6;O43172;Q02386;Q09161;P10827;P35813;P11473;P63173;P25789;P55036;P06730;P62917;Q8IX12;P62249;P62913;Q9HAU4;Q15366;P52434;Q9HAV4;O95402;Q9NPJ6;P62861;Q08170;Q8IYB3;Q9NPI6;P62277;Q02878;P41091;O95149;Q96PU5;Q9Y5Q8;Q8IXH7;A6NFD8;P47813;P09651;Q99460;Q86US8;P06401;Q7RTV0;P55265;Q9UV1;Q9UBQ5;P12757;Q96C86;O75175;O75586;P14866;Q9UL46;P62280;P39023;Q9H9A5;Q9BQA1;P52747;P08235;P62304;P83876;Q15329;Q9UKF6;Q93008;P28347;P62987;P61927;Q9UNX3;P28072;Q99594;Q71SY5;P48443;Q9UKZ1;P62857;P25788;P28074;Q14188;Q9GZV5;Q00059;P49721;Q13541;O60563;Q9Y4Y9;P81105;Q13347;P08579;P07814;O60841;Q9HG97;P55795;P12725;O95628;P49116;Q15466;P24863;O14818;Q9UL18;P05423;P24278;P49336;P46778;P49207;Q96HR3;Q15583;Q99436;Q15633;O75971;Q15629;Q15573;P14859;Q9H814;Q13888;P42772;P0CG48;P62266;Q8WXD5;Q15796;O14744;Q9H3P2;Q16401;A5LHX3;P26641;Q93074;P53803;P61254;Q9H9Y6;P38919;P62495;P07910;Q8N684;P13056;P61218;P11142;O00268;Q15056;O60244;P28062;P08621;P11940;Q13242;P29692;Q8WTR7;P31943;P10588;Q00839;Q13247;Q86WQ0;Q9BTT4;P62424;P62273;P67775;O43776;P55884;Q92831;O15105;P26599;Q9BUJ2;P83731;Q8ND04;P60866;Q92945;Q16254;P49458;P29084;Q08211;Q96B26;P20618;P62899;P63272;P35658;P52298;O00232;Q14152;O43390;Q16629;O75821;P60842;P22626;Q9Y3B2;Q6NZI2;O94906;P51668;A5YKK6;Q9BUQ8;Q9Y333;P35268;Q07955;P41252;Q92750;P61077;P09132;Q08945;P62826;Q53T94;P62891;P08047;P08708;Q13889;P20226;Q8IZH2;Q05048;Q15024;P17480;O00303;Q9NZN8;Q16637;O95453;P52756;P30153;Q96G25;Q15561;Q14103;O75832;Q9Y5B0;P46782;P41250;O15318;Q9UKN8;P61353;O00233;P62487;P01106;Q8IU60;Q13155;O75448;P51843;P62854;P19388;Q14493;Q9Y3U8;P28702;P35637;Q9HCK5;O60583;Q14186;P62318;Q86TB9;P47914;P84022;O43148;Q12904;Q86V81;O43513;O14980;Q14232;Q9Y285;O60508;Q92973;P08865;Q96F24;P13984;P22736;Q9Y3C7;P51003;P60228;Q9GZN2;O75643;P31749;P61313;P67809;Q9H074;P25398;O00255;P83369;Q86U44;Q9Y4Z0;Q15361;Q9P2J5;Q6P2C8;Q13435;P49720;P28065;Q14683;P52435;Q9H1D9;P49848;Q8WUA4;Q13547;P61513;O43324;Q6P2E9;P62306;P05388;P51946;O15160;Q9UI6;P62269;P60900;Q9Y250;P52657;P50750;O94913;Q9Y535;Q02543;P42766;P62081;Q9Y2L1;Q9Y5B9;P26368;Q9H5Q4;P55769;P25786;P61247;Q01081;O00231;O75533;Q14240;P54136;P36954;P49770;Q96RS0;Q8TFQ6;Q16514;P18621;Q8IYD1;O00411;Q9Y5Q9;P46781;P61326;Q99551;P63955;P39687;Q16533;P84098;Q9NQ4;Q6ZNA4;P15880;O15116;Q15459;Q9UKV8;O75376;P14868;Q9BWJ5;Q92540;Q12962;Q9BUI4;Q07352;P61289;P50914;O95718;Q9C0C2;O00267;P49589;P09874;O75469;P62829;P62979;P28066;Q9UNM6;Q92994;O43809;Q6P2Q9;Q99613;P24534;Q96DI7;O75822;Q8WX92;P28749;P39019;P09012;P84103;Q92759;P23588;Q9H944;Q8IWX8;P62314;P55199;P23396;O95602;P52272;P42677;Q15287;P62750;P31946;P62701;Q8TAA3;P21675;Q05519;P30050;P30876;P63104;Q15369;P35269;Q15759;Q15181;Q9NVC6;Q01130;Q9NYV6;P14678;P62910;P0CG47;P36578;Q9UBU9;Q12789;P62508;P10828;P26196;Q9NRR4;Q99593;P11474;P62847;Q14997;P57678;Q9UHB9;Q13200;P48556;Q9P2I0;P62851;Q6PI48;Q9H0W8;Q13485;P22090;Q04637;O14893;P24928;P23193;P51665;Q8IZD4;P46777;Q06265;P29083;Q9UFF9;O15371;Q9Y2X0;Q13573;Q00403;Q13243;Q07020;Q92793;P62263;P38159;P62841;Q9UPQ9;P83881;Q969L4;O00482;Q15029;P62316;Q06323;Q9ULK4;P26651;P05386;Q5SXM2;Q92900;Q9Y618;P18077;Q13144;P20042;Q92966;P35398;P46776;P62241;P52655;Q92530;P52597;Q9NR50;Q9NQ94;Q92664;Q13285;Q9NQ4;P62308;P62312;P62753;Q15372;P51948;Q10570;Q9NPD3;Q96F86;Q96LI5;O43242;Q12996;Q15544;O14802;P62945;P32780;P62310;Q9UK45;Q9UV7;Q96RN5;Q15393;P04792;P09661;P55055;Q15365;P18615;Q92901;P32969;A6H8Y1;P26373;P33240;Q9UI10;P18124;P40306;P40429;Q9Y2S0;P62875;Q13868;P27635;P19387;P68104;Q96JK9;P46783;Q8IZL2;Q14241;P62906;Q9H840;Q15428;Q92600;P63151;P62244;Q8WYQ5;Q9HAW0;Q16594;P62888;Q15543;Q9H1J1;P63220;Q15572;P05198;P10589}

19005

Pathogen[ Q85601] interacts with 515 human

partners: {P51946;P46783;P32969;P01106;P52657;P28066;P17480;Q9BZI7;Q9UNM6;Q9UPN9;P61513;P60900;Q9Y250;Q9Y2X0;Q92585;Q15542;Q92664;Q5RKV6;O75971;P26373;O15234;P61978;P62857;Q13487;P36954;Q15370;Q6P2E9;P62244;Q9BQA1;P63104;Q96JK9;P09874;P54136;O43324;Q9NSD9;P62913;P11473;O95602;P08107;P55036;Q9HAU4;P31946;Q9NPD3;Q9HAV4;O43148;P62854;P31749;P62081;P26639;O43390;Q8IYB3;Q9NPI6;P14868;P61353;O95149;P62891;P46776;Q9H1D9;O60563;P47813;Q15466;P18077;P25787;P63133;P41091;Q7RTV0;Q99613;Q92994;P05388;Q13243;P50750;Q9UBQ5;Q9HCK5;P63151;Q9ULK4;P62495;Q15629;P49589;Q05048;P61289;P06730;P62304;Q15329;Q01130;Q02386;Q9H0W8;Q14240;Q92540;Q9UBU9;Q06330;Q9UKZ1;P63173;P25788;Q9P2J5;P235

88;P39687;Q14103;Q9Y535;Q13888;O15116;Q13155;Q01105;Q9BUI4;P07814;Q8N684;Q13573;Q9Y2  
Y1;Q9UHV7;Q15459;P23396;P62273;Q07352;Q9UL18;P49336;P46778;P62829;Q75832;P30050;P287  
02;Q14241;O60583;P62753;P14859;Q13868;P42772;P27635;Q15573;P61326;P22626;P62826;Q152  
87;Q9H3P2;P12757;Q04637;P23381;P15880;P53803;Q14188;P83881;Q96G25;Q07020;Q9NRR4;Q9Y2  
S0;P30153;P61218;Q9Y618;O00268;O94913;P39019;Q8IX12;P26641;Q9UIV1;P08621;Q15583;Q969  
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48;Q9HAW0;Q86V81;O43776;Q92831;O00303;Q9BUJ2;P83731;P55795;Q9Y3C7;P51948;Q9NZN8;P186  
15;P62899;Q9BW92;P20042;Q9UFF9;Q13144;Q16594;P62945;P05423;Q16629;Q9Y285;Q9UK45;O147  
44;Q08211;P62316;Q94906;P51668;Q07955;P49770;P55055;Q93008;P55769;Q92600;Q9NVU0;P245  
34;P61077;Q504Q3;P62263;P12755;Q13541;Q9Y2L1;P62861;Q02878;Q09161;Q9HA77;Q8WX92;P080  
47;Q96DI7;Q8IZH2;Q86TB9;Q9UKN8;Q9HY96;P39023;P38919;P61254;Q96C86;Q9H944;P26651;P146  
78;O15371;Q15572;P25789;Q13263;P41250;O00233;P62487;Q86WQ0;Q8WYQ5;Q5SXM2;P19388;Q5T1  
60;P29084;P49207;P60228;P35637;P11940;Q14186;Q53T94;Q9Y5Q8;P20618;P62910;Q96LI5;Q9H8  
14;P62310;Q9H9G7;Q96RN5;P62249;P62280;Q13435;P62314;P13984;Q96F24;Q99551;P62306;Q9HA  
U5;P47914;O60508;Q8TEQ6;P84098;P40306;P08708;Q92759;O95402;Q9H2U2;P32780;Q92973;Q9Y4  
Z0;Q9NQT4;Q9Y5B0;A6NFD8;P49720;Q14683;P52435;Q9Y3B2;A5YKK6;P49848;Q95628;O95453;P623  
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12;Q9P2I0;Q15562;P35269;Q99594;P22736;P54105;Q15024;P25786;Q01081;Q8IZD4;Q8IZL2;Q96R  
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87;O75376;Q15369;P83369;P28072;Q16254;P08235;Q96I59;Q9UNX3;P60842;Q00403;Q9UKV8;Q132  
00;P62277;Q9H074;P11474;P50613;P10827;Q9C0C2;P28065;O00267;P35268;Q15633;P231  
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H7;Q9UPR3;Q6ZNA4;Q12789;P62508;Q6NZI2;Q00839;Q08945;Q92750;P21675;P46782;P46937;Q6P2  
C8;Q12962;P19387;P47897;Q92966;P04792;Q9UHB9;Q16533;P63272;P48556;Q9GZN2;O15105;Q6PI  
48;P46779;P52655;P62750;P62851;Q92945;O14893;Q13547;Q9H5Q4;Q9BTT4;P49116;P62841;P249  
28;P28074;Q96F86;O15372;P62308;P24863;P52298;Q92530;P30876;P62987;P38159;P13056;P524  
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00;P17275;O00411;Q86U42;Q16637;P31943;O75175;O43172;P08865;O60244;Q13485;P61247;Q96H  
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77;P52747;O15318;Q9NPJ6;P09661;P62917;Q16401;Q9NVC6;Q92901;O43513;P33240;Q15561;Q153  
66;Q9UI10;P18124;P46781;P62875;P25398;P60866;Q12874;O43809;Q9Y5S9;Q15796;Q02543;P202  
26;Q9BWJ5;P62906;P50914;Q8WXD5;Q9H840;P62266;Q8IU60;P40429;P62888;Q9H1J1;Q9Y4Y9;P105  
89}

19006

Pathogen[ P14079] interacts with 545 human

partners: {Q15629;Q9Y2S0;O43809;Q9Y3U8;P27635;Q92664;Q5SXM2;P84098;P46779;P28065;Q994  
36;Q9Y5B9;P62875;O60244;Q9Y333;Q9Y285;O95402;Q01105;Q8IX12;P20042;P62333;P13056;Q9Y2  
X0;O43513;P23381;P55199;O95628;P26639;Q9UKV8;P26373;P57678;P62508;P09874;Q15287;P485  
56;Q08945;P09132;Q96RS0;Q8WTR7;P60842;P12755;Q9Y3B2;P55055;P23396;Q96GW9;Q9P2T5;Q929  
94;Q8IZD4;Q15056;P11142;Q15561;P41238;Q15573;P60468;Q8TEQ6;Q9NYV6;Q14241;P0CG48;P404  
29;Q7L3T8;Q92600;Q9UL18;O00303;O94906;Q9BW92;Q9H9G7;Q9GVZ5;P14859;O75821;O60508;P356  
37;P28749;P06730;P19387;P52747;Q9Y5B0;P35269;Q14186;Q9UI10;P54136;P49336;P51946;P186  
21;Q16594;O14893;P47813;P83881;Q8IXH7;P35398;Q9UKF6;Q9UKN8;Q15031;Q14103;P678  
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33;P62847;P41091;Q15024;P40306;P39656;Q96JK9;Q16254;Q9UK45;P10828;P62753;P08235;Q105  
70;P52434;P52298;P55036;P35658;Q9NPI6;Q92793;P28074;P26641;P39023;Q9H1J1;O00232;Q128  
74;P62273;Q86WQ0;Q5ST30;Q13243;Q9HCK5;Q15583;Q9Y5S9;P25398;Q9UKZ1;Q9BUJ2;Q96HR3;O155  
14;P62495;Q15329;Q9NP81;P33240;Q99594;P28347;Q96TB9;P47897;P30876;Q96LI5;P11474;Q96F  
24;O95363;P49591;P61218;P43307;P26368;Q6P2C8;Q92540;Q9Y3C7;P83876;Q9H3P2;P18077;P497  
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66;P14868;P46783;Q86US8;P07910;Q9UBU9;Q9NPD3;P22736;Q13573;P05198;Q9H840;P61254;P509  
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03;A6H8Y1;P62979;P46937;P18615;O00233;Q6P2Q9;Q6P2E9;P62841;P18124;Q9UHI6;Q14240;P359  
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66;Q8IYB3;Q06330;O43148;Q16629;P50613;Q9H2U2;P62854;Q9NR50;Q13888;Q07020;P39019;P174  
80;P26599;P55795;Q00059;Q9C0C2;Q9BWJ5;O14744;P63220;P61326;Q8IZH2;Q16637;Q14997;P492  
07;P19388;P49589;P62244;P51668;Q00403;O75586;Q15046;Q15543;P28062;P60900;Q9UPN9;O004  
82;P24534;P62263;Q12962;Q02543;P62424;P55265;Q92901;P62277;Q9HCJ0;O75822;Q9BZI7;P119  
40;P62750;P62910;Q9UHV7;Q9BQA1;P63173;Q9Y4Z0;P26196;P31946;Q9BUI4;P49458;Q8ND04;Q96R  
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75;Q86V81;Q9NRR4;Q92750;Q86U42;Q99460;Q9Y5Q8;Q96I59;P36578;P28702;P24278;P62308;P266  
40;O75175;Q9H944;Q15370;Q92759;Q9UFF9;P09012;P13639;Q9HAW0;P56192;O14818;Q9NSD9;Q153  
66;P49721;P62304;Q15428;P60059;Q9Y2Y1;P62906;Q13969;Q9HAU5;Q9Y2L1;Q9NPJ6;Q92530;P62316;P479  
14;P62280;P62310;Q07955;P01106;Q15181;Q969L4;P62899;P52657;Q9Y2Z4;Q16533;Q15365;O004  
11;P10588;Q8WX92;P61353;P62081;P62945;Q9UIV1;P32780;Q71SY5;P46777;P42677;P30050;Q6NZ  
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31;P05386;O15318;P28066;P49588;P35268;Q14232;Q15466;Q9UL46;P04792;P62913;Q15361;Q6PI48;O43172;Q16514;P05387;P52756;Q9UBQ5;Q9H1D9;P61247;Q53T94;O15105;P54105;Q14683;O00267;P62318;P0CG47;P62269;Q9Y4Y9;P62701;P36954;Q9UHB9;Q504Q3;A6NFD8;Q96G25;Q92585;O00255;O75971;Q06265;P51571;P61313;O15234;Q14188;Q14152;Q16401;Q8WXD5;Q15542;P17980;P07814;Q8WUA4;O43324;P62851;Q07352;P28072;P19447;Q9Y535;P39687;Q09161;P05388;Q04637;P22626;P84103;P29083;Q8IWZ8;Q99551;P21675;Q9UPQ9;O00268;P38159;Q8NDV7;Q9H9Y6;Q9P2I0;O15372;P50750;P62857;P55884;P62861;P51948;Q9H814}

19007 Pathogen[ P03383] interacts with 490 human partners: {P08107;Q9Y618;Q14683;O95402;Q13573;Q06330;P42766;Q15329;P53803;Q9NRR4;P36578;Q9UKN8;Q06265;P05388;P62266;Q9Y285;Q9UBU9;Q92585;P39019;Q07955;P55199;P26373;O15234;Q15561;Q9Y2L1;P09661;Q92831;Q15287;Q8ND04;Q9BQA1;Q96JK9;P62913;Q05048;P62945;Q95602;Q01105;P55036;Q13485;Q9H2U2;Q12904;Q15369;P63272;Q15366;P08047;P51003;Q9P2J5;Q9H3P2;Q9NYV6;O43148;P62854;P29084;Q969L4;P40429;Q15562;P14868;O43390;Q15544;P62987;P62891;P25398;P35269;P83876;P51948;Q9H840;Q9UL18;Q15459;P62280;P62318;Q07020;Q8IUU6;P49458;Q9H944;P62312;P25789;P62750;P54105;P22626;P60900;P14866;O15371;P05387;Q15029;P62249;O75376;Q15572;Q6NZI2;Q9ULK4;Q96F24;P62888;P62899;Q9UBQ5;P31946;Q9UPQ9;P01106;O43172;P60228;Q13487;P61927;P24534;Q9H0W8;Q9UPN9;Q13888;P46777;P49116;Q9Y5S9;Q9HAW0;P14859;P23193;P46779;P49207;O60244;P31749;P55795;P62316;Q5JPH6;Q9Y535;P49589;P83731;P62424;Q9H9Y6;P40306;Q5T160;Q9UI10;O00233;Q92966;Q15031;P18124;P46778;Q8IZL2;Q92901;Q10570;P62753;P52655;P62304;Q00059;Q9NP81;Q8WYQ5;P61326;Q9UHI6;P42677;Q8WXD5;Q15542;P61247;Q6P2Q9;P38919;Q9Y4Y9;O95400;P49721;Q06323;P83881;Q96G25;Q9UFF9;Q12874;Q6ZNA4;P52434;P61218;P26368;Q13243;Q9HCK5;Q9H5Q4;P30153;P26641;P47914;Q08945;P04792;Q9C0C2;O60841;Q14997;P67775;P61978;P26196;P11940;Q14152;P31943;P62917;P62273;Q07352;Q86V81;Q9NPJ6;Q13435;Q9UNX3;P35813;P20618;O43324;P09132;Q9Y5Q8;Q9H1D9;Q93074;Q13155;Q9UKF6;O00267;P30050;Q9Y3B2;O14744;O94906;P84098;P38159;Q9NVU0;P61077;Q96HR3;Q00403;P62826;P32969;Q09161;Q95628;Q16629;P20042;P20226;Q9UPR3;Q075832;P52657;Q96RN5;Q15448;P62277;P62487;Q86WQ0;Q13144;P11473;P18077;O15105;Q8N684;O94913;P23588;P06730;P63173;Q8IYB3;P11474;Q9NR50;Q16533;P49336;Q16594;Q14186;Q6P2C8;Q15629;Q8IXH7;Q16637;P62081;P84022;Q92994;P52747;P19387;P33240;P62314;P62310;Q15361;O60563;P84103;Q92945;P50613;P13984;P39687;P42772;P23381;Q99551;P63104;Q9HAU5;Q9Y3C7;Q8TEQ6;O14893;Q92973;Q13541;P28347;P35637;P51946;P24928;P61313;O14980;P08865;Q01130;Q9HAV4;Q96I59;Q9NPD3;P62851;P62495;Q86VS8;P24278;Q9NQT4;P47813;P09874;Q9NPI6;Q14493;P49848;P46782;Q15046;Q14103;Q15466;Q16254;A5YKK6;Q9UL46;Q95149;P62269;P28702;P68104;Q9UNM6;P63220;P50750;P05198;O75971;Q02543;P62244;P14678;Q02878;Q9Y2Z4;O95363;Q9Y333;O00268;Q9UIV1;P25786;Q99460;Q01081;P07814;P15759;P49770;Q96RS0;Q16514;Q86TB9;Q00255;Q8IYD1;P11142;Q96GW9;Q92600;P28072;Q96B26;P62910;Q15365;P27635;Q9UKV8;Q92759;Q13200;Q9ULM6;Q9H074;Q15573;P28065;Q9HA77;Q8IZD4;Q8IX12;P62857;P28066;Q13547;P26651;O43809;P52298;Q99613;O75822;P28749;P09012;P35658;P62906;Q9Y4Z0;P46783;Q71SY5;Q9NZN8;Q9Y3U8;P60866;Q04637;Q9UK45;Q5RKV6;Q96C86;Q15191;P61254;Q14188;Q16401;Q05519;P62979;Q92750;O00231;P0CG47;A6H8Y1;Q9BUJ2;P62875;Q15786;Q99594;P62241;P21675;P46781;Q14232;Q13347;P52435;P39023;P55265;O43776;Q8WTR7;P57678;O15318;P55769;Q9UHB9;Q9P2I0;Q6P148;Q9UKZ1;Q9Y5B0;Q15370;P12757;P0CG48;Q12962;Q9BT4;O00411;P28074;P62841;Q96F86;P62308;Q92530;P19388;P49720;Q9UHV7;Q8TAA3;P61289;P22090;P29083;P24863;Q12789;P10828;Q92540;P41250;P62701;Q9NVV6;P62829;P62508;O15116;P83369;P30876;O75586;P29692;P62263;P28062;P62847;P35268;P41252;P54136;P05386;P50914;Q5SX M2;P17275;O95453;Q86U42;P17480;P48556;Q9NSD9;O14818;P49591;P67809;O75175;P46937;Q14241;P13056;Q9GZV5;O60583;Q92900;P62861;Q7L3T8;Q13868;Q00839;Q99436;P18621;O15372;Q9Y5B9;P08621;Q96LI5;O14802;P46776;Q9Y2X0;O75821;P32780;P52597;P15880;P23396;Q15024;P18615;P28070;P61513;Q9H9G7;Q92793;Q7RTV0;Q8WX92;P51668;Q9BWJ5;Q15633;Q9H814;Q53T94;P25787;P62306;P08708;P25788;Q9BZI7;Q15543;Q9Y250;Q9H1J1;Q9BW92;P61353;Q6P2E9;Q96DI7}

19008 Pathogen[ P03410] interacts with 556 human partners: {Q9HAW0;P84022;Q96LI5;Q99594;P83876;Q92540;Q92831;O60583;Q08945;P62861;P05386;Q8IUU6;P28070;Q9Y2L1;Q6NZI2;Q92945;Q02543;Q9UPQ9;P61247;P62241;Q9Y285;Q00839;P52655;P62829;P49207;Q15427;Q9HA77;P26373;Q9NZN8;P05121;P55036;Q96RS0;Q9BWI5;Q9Y4Y9;Q6ZNA4;Q15572;P61513;Q8WXD5;Q01081;P0CG48;Q9NR50;O14893;Q9UFF9;P26368;P68104;Q10570;Q13155;P61326;P19387;Q14103;P62304;P62899;P35813;Q9NSE4;P56192;O15234;Q8IX12;Q13889;O60508;Q15329;Q9UKV8;Q9Y5Q9;Q15633;O95628;Q9UHB9;P18615;P62244;P36954;Q9BT43;Q9H3P2;O00268;Q12996;Q15029;O60841;P62913;Q8WTR7;P61978;O75822;Q92994;P60468;Q05048;Q15543;P25786;Q16629;Q9H840;P42772;P12755;P60059;Q96G25;Q02878;Q15008;Q92901;Q92900;P22626;Q16401;P11940;P49589;Q5ST30;P01106;Q9BUJ2;Q92750;O15372;P15880;O00267;Q9Y5B9;P62306;P63272;P46777;Q06330;P46776;P62841;P54105;P30050;Q96F24;P24928;P55265;P60900;P62310;Q9UL18;P05388;Q12962;Q9BW92;P21675;Q14997;P29083;P06730;Q9ULM6;Q9UPR3;P35998;Q9NPI6;P46781;Q15393;Q99460;P18124;P49588;Q9Y5S9;Q06265;P54136;Q14493;P14859;Q9NVC6;P20042;P41238;O00233;Q9C0C2;P35637;P51946;Q5RKV6;Q16254;Q8TEQ6;Q15365;P23381;Q9NPJ6;Q00059;P24278;Q9HCJ3;Q9Y333;O00232;P62269;Q8NDV7;Q07020;Q13868;P63220;Q7L3T8;O43776;P05569;P62910;P62847;P62906;P11142;P39687;Q8TAA3;P31749;P04792;P23396;Q14232;A6NFD8;P18621;P48556;P30876;Q86WQ0;P26599;P49721;P62266;Q9BQA1;P20226;Q15366;Q15370;P62249;Q01105;P10828;Q9Y5Q8;A6H8Y1;P63151;P62308;P14678;P63173;P62316;P50914;Q9HAU5;P47897;P62280;O75376;P14868;Q9H9G7;Q9H2U2;P23193;P55265;A5LHX3;P22090;P26651;O00411;P13639;P61313;Q8WYQ5;Q9UIV1;Q9Y3C7;P62979;Q99613;P47813;P62508;P25657;Q14188;O15514;Q13541;P50613;Q9H1J1;P14866;Q14152;Q9H9A5;Q9NRR4;Q99436;O15318;P09012;P62701;Q92585;Q9Y535;P49770;Q9BZ I7;Q12904;P62750;Q9NSD9;Q9H074;Q9GZV5;P11473;P51003;Q9P2J5;P08621;P55884;P08865;P49591;O43809;P50750;P40306;P67809;Q9NYV6;Q9UNX3;Q06323;P62277;O15371;Q8IZH2;O60563;O94906;Q8IZL2;Q15583;P36578;P18077;P07910;O08579;P55199;Q96JK9;Q8IZD4;Q92793;P25398;Q15573;Q96B26;Q13200;P43307;Q05519;Q8IXH7;Q9ULK4;Q9H814;O95402;Q8WX92;Q15561;Q96F86;P25787;P61927;P84098;P29084;Q9NW08;Q15369;P62854;Q95453;Q6P2E9;O43513;Q02386;O43172;P52435;P62826;P62273;P26639;O95602;O94913;P09132;Q07955;P52597;P35658;P08107;P52298;P620

81;Q16514;P28347;Q16637;P46783;P62495;Q96I59;Q9P2I0;P31943;P17275;Q9UKZ1;P62314;P49848;Q92973;P83369;Q15056;Q15024;P33240;Q15629;P53803;Q9Y3U8;P28062;Q15428;P51665;P19447;Q14683;P41250;P09661;Q13485;Q15459;P22736;Q14186;O75533;Q9Y2S0;Q9HCK5;Q86V81;P62875;P05423;P28702;Q12789;P52272;P08708;P09874;P46782;Q15466;P32969;Q00403;O14818;P12757;Q9UBU9;Q9BTT4;Q15046;Q9H5Q4;P51668;P46937;Q6P2C8;P60842;P35269;O43324;O75175;Q8IYB3;Q00303;P83919;Q16594;Q9NQT4;P61218;P49336;P04844;Q9Y2Y1;O95400;Q96HR3;O00231;Q8ND04;Q9UNM6;Q5JPH6;O15105;P46779;Q86U58;P63104;P27635;P51948;O15160;P24863;Q9Y5B0;P28749;P25789;Q15544;P49720;Q8IYD1;Q13888;O60244;Q01130;Q9UHV7;Q969L4;Q9Y4Z0;P11474;Q92664;O75821;P30153;Q9UKF6;P52434;P62987;Q9UGM6;P41252;Q13547;Q86TB9;Q9Y2Z4;Q7RTV0;P49116;P57678;Q53T94;P24534;P13984;P62857;P26640;P10589;Q92966;Q96GW9;Q15542;Q8N684;Q13347;P62487;Q9H1D9;P62263;P41091;Q9GZM2;P62424;Q9Y250;P08047;P62888;Q13487;P61254;Q09161;P46778;Q92600;P28072;O43148;P62945;P05387;P07814;Q9NPD3;Q9NVU0;P42766;Q9Y2X0;Q6P2Q9;O14744;P26641;Q93074;O15116;P84103;P39019;P62312;P47914;A5YKK6;Q86U44;Q9NP81;Q86U42;Q9H0W8;P40429;Q04637;Q15361;P49458;Q9H944;Q9Y618;P39023;P55795;P25788;Q96C86;P39656;P29692;Q8WUA4;Q15181;Q9HAV4;Q13243;P62917;P62851;Q12874;P67775;P83731;Q9UKN8;O00255;P38159;Q15796;Q8IWX8;P60228;Q5SXM2;P08235;Q9UHI6;P19388;P28066;Q15562;P35268;Q08211;Q14241;P32780;Q504Q3;P61353;Q9UK45;O95363;Q99551;O75971;P62891;Q6PI48;P28065;Q5T160;O14802;O43242;O75448;Q96RN5;Q16533;P0CG47;Q07352;Q92759;Q9BUI4;P62753;Q9UBQ5;P23588;Q9UI10;P17980;Q9UPN9;P31946;O75832;O14980;P20618;P61077;Q13573;Q14240;O75586;Q9UL46;P28074;P61289;Q9H9Y6;P52747;P83881;P17480;Q13435;P60866;O43390;O95149;P13056;Q13144;P42677;Q9Y3B2;P05198;Q71SY5;P62318}

19009

Pathogen[ P14075] interacts with 494 human

partners: {Q9Y2Z4;Q9NVU0;Q00059;O95453;Q6P2E9;P17480;P49336;P42766;P54136;P51003;P22626;Q92585;Q15572;Q8TEQ6;Q15366;Q12789;P49207;O15234;P09132;P62857;P62304;Q9GZV5;P46781;P63220;P54105;Q05519;P32969;P14866;Q9UK45;Q9H5Q4;Q12962;Q09161;P35813;P62316;Q9H814;P62495;P55036;P25788;P42677;P13984;Q13155;P62913;Q9NPJ6;Q92900;P22090;O60841;Q92759;P11142;P20042;Q02878;Q8WXD5;Q16533;P24863;P28066;O43809;P21675;Q9P2I0;Q13573;Q14683;P41250;Q92966;P62277;P55265;P52657;P08621;O15372;P23381;Q9UPR3;P62851;Q15542;P18615;Q06323;O75832;P11474;P68104;Q15759;Q9HCK5;Q14103;Q9UML6;Q86V81;Q9NYV6;Q13243;P23588;P08865;Q9BQA1;P14859;Q92831;P52747;Q8TAA3;P10828;Q9UKZ1;Q9NPD3;P60900;Q08945;Q15562;P62444;P28347;P30876;Q96HR3;P61326;O00233;P08708;Q9H9G7;Q9NSD9;Q14493;Q9UL46;P57678;Q9Y4Z0;P26196;Q53T94;P17275;Q00403;Q15459;P49720;P61254;O60563;Q9Y5B0;P46778;P29083;O75971;P50613;P26651;Q14241;Q92600;P38159;Q92945;Q92973;Q15561;Q15428;P05388;P41252;P26641;P29084;P83881;Q99613;P19388;O95400;Q01130;P61218;P50750;O75821;O60583;Q92994;O95363;P46777;Q9H840;Q9Y250;O43172;P29692;Q9Y3U8;P04792;P31943;P62249;P39687;O75175;Q9H074;Q5SXM2;Q15544;Q9HAW0;Q13200;O75448;P48556;P19387;P06730;P62306;Q16401;Q9NPJ6;P62081;Q8IX12;P20226;Q15629;P62308;P62750;P18621;Q96LI5;Q8IU60;P35658;Q9NZN8;O43390;Q15796;Q01105;Q02543;Q9UI10;Q9HAV4;P28070;P18124;Q9UNX3;O94906;P25398;Q13547;P61077;Q16594;P49721;Q96GW9;P13056;Q9Y2L1;P01106;Q92750;P47813;A6H8Y1;Q9HA77;Q9Y618;Q9NP81;Q13868;P15029;O95402;P05198;O15371;P62312;O00231;O75376;Q16637;O75586;Q9BTT4;P12757;P62487;Q96DI7;Q92530;Q9Y285;Q13485;O00255;Q93074;Q9NQT4;Q8WTR7;P11940;P24278;Q14186;Q6NZI2;O14980;P60228;P63173;Q15365;Q00839;P49116;O95628;P30050;Q9UHI6;P31749;P0CG48;Q86U58;Q8IZD4;P62979;Q6ZNA4;Q13435;P83731;P49458;P84098;Q9Y3C7;P62318;P28062;P83369;Q15370;O15116;Q7L3T8;O00411;Q12874;P55769;P28074;O14744;Q14232;P23193;P33240;Q9UV7;P56192;P61247;P62753;P46782;P62891;P62861;Q13889;Q16254;Q12904;P28065;Q9BUJ2;Q9UPQ9;P18077;Q05048;Q9Y5B9;P49848;P46779;P62917;P39023;Q9H1D9;Q15287;Q04637;Q9H944;Q9UPN9;P50914;P24928;P62269;P62847;Q9BW92;P62910;O43776;P62273;Q86TB9;Q9Y535;Q15573;P35269;P11473;Q99594;O60244;Q6P2Q9;Q5RKV6;P40429;P26368;P23396;P62241;P52655;P25786;Q01081;P15880;Q96RS0;P62826;O14818;Q16514;P49770;P62987;P67809;Q8IYD1;P63104;Q99551;P14868;Q9HAU5;Q5T160;P28072;Q9P2J5;Q9NRR4;Q96NB26;Q96JK9;P09661;Q8IYB3;Q9UKV8;Q9BWW5;P62841;Q9Y333;P36578;Q13487;P61978;O15105;P62266;Q07352;Q9Y5Q8;O95149;Q15633;Q06330;P67775;Q9H2U2;Q9H9Y6;Q13347;P30153;P51946;Q14997;P61513;O75822;P28749;P32780;P09012;P55199;P61313;P27635;Q9ULK4;O00268;P14678;O95602;P62888;Q9UFF9;Q6P2C8;Q92901;P0CG47;P42772;P25787;P26639;Q92793;P08107;P28702;Q9NVC6;Q9Y5S9;P35268;Q96C86;P46937;Q9NL50;Q9UKN8;Q96RN5;Q9UHB9;P62945;P35637;P6P148;P46776;Q15466;Q96F24;Q9H0W8;P83876;Q9UL18;Q15024;Q15361;P31946;P84103;Q96I59;P20618;O43148;Q9H3P2;Q9UBU9;P46783;Q15329;P62701;P84022;Q13144;P62875;P49589;P62899;P52597;O43324;Q5JPH6;Q9C0C2;P47914;Q8IXH7;Q9UNM6;O14893;P62906;Q71SY5;P62314;Q8IZL2;P38919;Q15046;Q8N684;Q96G25;Q9Y4Y9;Q9UBQ5;Q9UIV1;P61289;P05386;Q9UKF6;O00267;Q86U42;P40306;Q14188;P61353;P51668;P39019;Q15369;P62424;O43513;Q99436;Q92540;Q9NSE4;Q16629;A5YKK6;P52434;Q06265;Q15031;P24534;P62829;P62280;Q86WQ0;P63272;P49591;Q9Y3B2;Q96F86;Q10570;Q13541;Q8ND04;O14802;Q07020;P62508;P62263;Q969L4;O15318;P62854;P60866;Q15181;P26373;P07814;P09874;Q9Y2X0;P05387;Q94913;Q14152;P62310;Q07955;P51948;P52298;Q8WX92;P52435;P53803;Q15543;Q8WYQ5;P25789;Q9BZI7;Q9H1J1;P61927;Q7RTV0;Q13888;P08047}

19010

Pathogen[ P0C206] interacts with 553 human

partners: {P49589;O95363;Q02386;Q9BUJ2;P61289;P46937;P41091;P09132;P84022;Q15287;P40429;Q9UFF9;P61313;Q99436;P28062;P10588;Q96RS0;P24863;Q9UNM6;Q9NSE4;Q53T94;P67809;Q14188;O43324;Q96PU5;P33240;Q13541;P0CG48;P07814;Q9H074;P62875;P83876;Q99613;Q8IXH7;Q15329;Q9UKF6;Q14103;P27635;P49336;P14678;Q9HCK5;O60508;Q15466;O75832;Q9BZI7;Q504Q3;P35398;P23193;P20042;Q15365;P18124;Q96HR3;P39687;Q07955;O95149;Q86TB9;P26368;P22298;Q16514;P55265;O95453;P06401;P31749;P62854;P40306;Q06330;Q9Y2Z4;P28065;Q14997;Q15543;Q9H840;P49848;Q9UPN9;P61326;Q01081;P49207;P26651;Q8IZH2;Q9BQA1;Q9HAW0;Q96C86;P36954;P55036;Q13263;Q15361;P50750;O95602;Q9BT43;P62081;P20226;Q09161;Q9HAU4;Q15544;P30050;P25786;P55769;P17275;P30153;P39656;Q8WXD5;Q8WUA4;P09874;P25788;Q9NPJ6;P25788;Q92664;P41252;Q6PI48;O94913;P62241;Q5RKV6;P54105;P62304;P62244;O14744;P25787;Q05519;Q8IYB3;P50914;Q13868;Q9NZN8;P08865;Q5ST30;Q08211;Q9UIV1;P62750;Q6ZNA4;Q06323;P18621;P09012;P526

57;Q96LI5;P46781;A6H8Y1;P62266;Q02543;Q14232;O75469;Q96JK9;O75533;P14866;P52655;O002  
55;Q8TEQ6;Q8WTR7;P49720;P61978;P19388;P61218;Q8N684;O00268;Q07020;Q9NW08;P83881;Q8IY  
D1;P46778;P26196;Q9UGM6;A6NFD8;O75175;O75586;P63151;P62263;Q5JPH6;Q9NP81;O00232;Q9UP  
Q9;Q13243;Q12874;Q16629;P62273;Q86U42;Q15572;P55055;Q9NPL6;P62314;Q6P2C8;P62316;O433  
90;P60900;Q9Y3C7;Q9BUI4;Q02878;Q9Y5B9;Q9HA77;Q9UKV8;Q13547;Q14186;P13056;P04792;P427  
72;P62495;P62826;P51003;P62280;P22626;O15318;P41250;P26641;O43809;P49116;P67775;Q96B  
26;P62857;P22736;P62851;P29084;Q9UHV7;O43242;Q15796;P62910;Q9H9A5;Q13487;Q8NDV7;Q929  
73;Q92831;P26640;Q14241;O00482;Q9Y4Y9;Q9NR50;Q16254;P46782;Q99551;Q9Y5Q9;O95628;A5LH  
X3;Q9HAV4;Q9P2I0;P49591;P06730;P28749;P13984;Q9Y4Z0;P61247;Q9Y535;Q9Y5Q8;P83369;P127  
55;O75971;P19447;P31946;O43776;Q92793;Q13144;P18077;P10589;Q9GZV5;O43513;P62913;P619  
27;P25789;Q9Y333;P61353;P62888;Q5SXM2;Q9GZN2;Q13435;O15105;P63104;O95718;Q8IZD4;P054  
23;Q9NVU0;P36578;P60228;P53803;P49770;Q9H814;Q92750;Q9UK45;P62861;P05198;Q9Y285;Q86U  
S8;O15514;O60841;P35269;Q8ND04;P10828;P62508;Q9Y5B0;P19387;Q13888;P38159;Q05048;Q96R  
N5;Q9NSD9;O95402;P50613;P35268;O95400;P23396;P39023;Q9H0W8;P20618;Q13573;Q9BWJ5;P127  
57;P32969;Q06265;Q8IZL2;Q13200;Q9UBU9;Q8TAA3;P08047;P24278;P18615;P52597;P62701;P280  
70;Q9Y2S0;P29083;Q9UKN8;Q14683;Q6P2E9;Q9H944;P05386;Q9NPJ6;Q6NZI2;Q96F86;P22090;P840  
98;P62945;Q99460;P26373;Q14152;P35637;Q96F24;P46777;P05388;Q9UI10;P62979;P28347;Q6P2  
Q9;Q92759;Q5T160;P62318;Q15024;Q9BW92;O15371;Q7RTV0;Q15370;O15234;O14893;P28066;P628  
99;Q12996;P08107;Q9H2U2;P47813;A5YKK6;Q9NRR4;P83731;Q9Y2L1;Q15562;O75376;P55795;O002  
67;P39019;Q92901;Q16533;P05387;O14818;P46783;Q15573;Q13485;Q9H3P2;P56192;P42766;Q9UP  
R3;Q15633;Q8IWX8;P60866;Q14240;Q9UKZ1;P52435;Q92600;Q71SY5;Q86WQ0;Q9BTT4;P62306;P624  
87;O43172;P62841;Q15366;P32780;P0CG47;Q9Y3B2;Q15542;Q9C0C2;Q92966;Q9HAU5;O60244;P280  
72;Q8IX12;Q9H9G7;Q9UNX3;P54136;Q9ULK4;P84103;P23588;Q13889;Q9H5Q4;P61513;P24534;Q929  
00;P49458;P28702;Q13155;P05121;Q8WX92;P26639;Q15629;Q9NVVC6;P28074;P62277;O94906;Q9UH  
B9;Q92994;P52747;O75448;Q15031;P46776;P11474;Q92530;Q9UHI6;Q12962;P01106;P24928;P629  
06;P62312;Q04637;Q07352;P61077;P49721;P63173;P55199;Q99594;Q92945;Q99594;P09661;P629  
87;Q9NQT4;O60583;P38919;Q9Y2X0;O75821;P41238;Q16637;Q7L3T8;P62308;P62891;P62269;Q9P2  
J5;P29692;P62753;P08621;Q13347;P46779;Q00403;Q01130;O14802;Q9UL46;Q00059;P63220;P623  
10;P60842;Q9Y2Y1;Q9H9Y6;Q92540;O60563;P15880;Q96G25;Q8WYQ5;Q00839;Q9ULM6;O43148;P253  
98;O00303;P08708;Q14493;Q01105;Q15369;Q08945;Q15759;Q9NYV6;Q9H1D9;P23381;Q93074;P516  
68;Q15459;P11940;P11142;Q8IU60;O00233;P47914;Q9Y618;P68104;P48556;Q9Y250;P11473;P174  
80;P35658;Q12789;P47897;P14868;P62847;Q16401;P31943;P61254;P08235;P52434;O15116;Q155  
61;O15372;O15160;Q96GW9;Q12904;Q92585;O75822;Q15428;Q9Y5S9;Q86V81;P10827;P21675;P148  
59;O00231;P51946;P35813;P63272;P42677;P62829;Q96I59;Q15583;Q9UL18;Q969L4;P51948;P484  
43;P15046;O00417;Q10570;Q16594;P62249;P62424;Q9H1J1;Q15029;Q15181;Q9Y3U8;P30876;Q9UB  
Q5;P62917;P57678}

19011

Pathogen[ P03363] interacts with 495 human

partners: {Q96B26;Q504Q3;P62913;Q9NQT4;Q9Y2Z4;P62314;Q96RS0;O00411;Q9Y535;Q9GZN2;O147  
44;P09132;P18621;Q9H2U2;P05386;Q13151;Q9Y4Y9;Q8WUA4;Q5RKV6;Q92973;P10828;O15371;Q9Y4  
Z0;P62750;Q15366;P23396;P42677;P63173;P08865;P29083;P29084;Q13487;Q9P2I0;Q9Y5B0;P389  
19;Q15370;Q15466;P41252;P62847;P18077;Q10570;P05387;P49848;O75643;Q9NSD9;P49116;O956  
28;P19388;O95453;P84098;P42766;Q02386;Q13435;P13984;P62249;O95400;P52597;O60563;Q9HA  
U4;Q92900;Q96HR3;P05388;Q9HAV4;O60841;Q9H9Y6;Q9UHI6;P36578;P09012;Q71SY5;Q13347;P551  
99;P62753;P62312;Q8WX92;P24863;Q92530;Q8ND04;P62081;Q08170;P62910;Q15562;Q96I59;P308  
76;Q92831;Q86WZ8;P14868;P51991;P12757;P62508;Q13888;P14866;Q05048;P61513;P49589;P467  
76;Q15024;Q15393;A5YKK6;Q06330;P32780;O14980;Q86US8;Q92759;Q9UI10;P35637;O75533;P193  
87;Q9Y3B2;P41250;P61254;Q9NVU0;P62273;Q6P2E9;Q9H9G7;Q9UHB9;P61218;Q16514;P09651;P329  
69;P28347;Q92901;P08579;Q15459;Q9H1D9;Q8IYD1;P46778;Q15056;P51946;Q9Y5Q9;P61927;Q7RT  
V0;Q9UBQ5;P31946;O75376;Q9UPR3;Q16629;Q9HCK5;P62891;P62318;Q16254;P11474;Q14152;Q96J  
K9;O95602;Q9UKV8;P61353;P47897;P24928;Q15427;Q5JPH6;P62891;P62189;O00268;P62304;O151  
05;Q01130;Q6P2Q9;O43776;O00267;Q86U44;P08708;Q9UKZ1;Q9UBU9;P15880;P11940;Q86U42;Q153  
69;O14893;Q8IZD4;Q15633;P01106;P23381;Q9NZN8;Q8NDV7;Q9NPD3;A6H8Y1;Q92620;O94913;P287  
49;O15372;P17275;P41091;Q8IXH7;P23588;P39687;P62495;P18615;P61326;Q8IWX8;Q6ZNA4;P526  
57;P62306;P05198;O15116;Q05519;P10588;P26373;P35269;P11473;P52272;P54105;Q13155;P833  
69;Q15029;Q15287;P57678;Q9BQA1;P83881;Q12962;Q8N684;P63151;P63104;Q9Y3B4;Q9ULM6;Q004  
03;Q9BWJ5;P22090;Q07352;Q9Y333;P62861;P62841;P62316;Q13242;Q9UNX3;Q9NR50;Q96F86;P541  
36;P30050;P46937;Q9H0W8;P28702;Q8IYB3;O60583;P14859;O43809;P62829;Q53T94;P38159;Q155  
44;P08107;P26368;P26641;P42772;Q9Y5B9;P08235;Q14240;P46782;Q96PU5;Q92945;P35268;P174  
80;Q9Y250;Q14241;P24278;Q12874;Q15717;Q9GZV5;P29692;P31943;O43172;P05423;Q9NYV6;P317  
49;O15318;Q9C0C2;P51003;Q9H3P2;Q6P148;Q9NVVC6;P20042;P46781;P47813;P50914;Q13243;Q96R  
N5;Q8WXD5;Q86V81;Q9UHV7;O75586;Q9HAU5;Q15796;P07910;P63220;P84022;Q9Y2L1;P61313;Q9Y6  
18;P49336;P39019;Q15542;Q13573;P52298;P26196;O43148;P35658;P08621;P55265;P46779;Q025  
43;P46777;Q9H840;Q9NRR4;Q15583;P62987;P35398;Q92600;Q00059;Q92664;Q92966;O95363;Q6NZ  
I2;Q96LI5;Q13547;Q13868;Q92750;P25398;P22626;P83876;Q93074;Q92793;O75971;Q15365;P165  
33;O75448;P26599;P62487;P51668;Q9UPQ9;P49770;Q15361;P21675;P60228;Q14103;P23193;P837  
31;P62851;P62280;P55795;Q9P2J5;Q9Y3U8;P62888;P49458;Q9UL18;P20226;Q96F24;P52655;Q134  
85;O75175;Q9BTT4;P62310;O95402;P60842;Q9NQT5;P26651;Q9UIV1;Q86TB9;P63272;Q9BW92;P507  
50;Q08945;Q14186;Q8IX12;Q07955;P49591;Q14188;P62244;P62277;Q9NPJ6;P62906;Q92540;Q010  
81;Q9Y285;Q9UK45;P62266;Q9BZI7;P61978;P62945;P49207;P62241;Q969L4;Q13247;Q154  
28;Q5SXM2;P62424;P55769;Q7L3T8;O60244;P60866;P61247;P24534;P61077;Q12789;Q8TEQ6;Q131  
44;Q9UFF9;Q15031;Q00839;Q15573;P09874;P62308;P62899;Q16637;Q8WTR7;Q9UKF6;P62857;P841  
03;Q02878;Q9ULK4;P08047;Q13541;O75821;Q9UKN8;O43390;P07814;Q07020;P39023;Q01105;Q144  
93;Q96C86;P30153;P14678;Q15543;P53803;P52435;Q15572;P62854;P09661;P62826;Q08211;P524  
34;P62917;P55884;Q6P2C8;O43513;Q9BUJ2;P33240;Q15561;Q96G25;Q15181;Q8WYQ5;P18124;P404  
29;Q5T160;P67775;P10589;P27635;P06730;P62263;P13056;Q99594;O43324;Q93008;Q15329;O951  
49;Q14683;P04792;Q9Y5Q8;Q8IZL2;P47914;Q9NPI6;P62701;Q9Y2S0;Q9Y5S9;Q9H074;Q9H814;Q8IZ

H2;Q9H944;Q99551;Q12996;P68104;P11142;Q92585;O75822;P62269;Q9NQ94;P67809;Q8IU60;Q96D  
I7;O15160;P52747;O60508;Q09161;P46783;A6NFD8;Q16594;Q99613;Q9H5Q4;Q04637;Q9HLJ1;O003  
03;O15234;O00482;P52756;Q9Y3C7}

19012 [Cluster 1729]GO:0015758+P biological\_process [name] glucose transport [def] "The  
directed movement of the hexose monosaccharide glucose into, out of or within a cell, or  
between cells, by means of some agent such as a transporter or pore." [GOC

19013 Pathogen[ Q2Q067] interacts with 34 human  
partners:{Q96EE3;P31749;P52948;Q12769;Q96HA1;P49790;P49792;O75694;P78406;P19367;Q995  
67;Q8N1F7;Q7Z3B4;Q8NFH4;P12270;P11166;Q9BW27;Q8TEM1;Q9BVL2;Q9UKX7;Q9NRG9;Q8NFH3;Q9UI  
H9;P37198;Q92621;O15504;P57740;Q8WUM0;Q9BX66;P14672;P35658;Q8NFH5;Q5SRE5;Q14397}

19014 Pathogen[ P0C214] interacts with 35 human  
partners:{Q8NFH5;Q9UIH9;Q8TEM1;P78406;P57740;Q99567;Q9BX66;Q8N1F7;O75694;Q96EE3;P497  
92;Q9UKX7;P11166;P11168;P49790;P37198;Q9BW27;Q9NRG9;P35658;P19367;Q8NFH3;Q14397;O155  
04;P12270;Q8NFH4;Q9BVL2;Q5SRE5;P14672;Q7Z3B4;Q8WUM0;P52948;Q92621;P31749;Q12769;Q96H  
A1}

19015 Pathogen[ P03346] interacts with 36 human  
partners:{Q8TEM1;Q8NFH4;Q8WUM0;P12270;Q12769;Q96EE3;Q99567;Q9UKX7;O75694;Q9NRG9;P784  
06;P57740;Q9BVL2;Q8N1F7;P19367;Q8NFH5;Q9BX66;P37198;Q8NFH3;P35658;Q01469;Q5SRE5;Q926  
21;Q9BW27;P31749;P11166;Q14397;P49790;Q96HA1;P14672;Q7Z3B4;Q9UIH9;O15504;P49792;P529  
48;Q6ZJW1}

19016 Pathogen[ Q85601] interacts with 35 human  
partners:{Q8TEM1;Q5SRE5;P11168;P31749;Q8NFH4;Q8NFH3;Q96EE3;Q12769;Q9BX66;P78406;P577  
40;Q9NRG9;Q6ZJW1;Q8WUM0;Q8N1F7;P12270;Q9UIH9;O75694;O15504;Q9BW27;P11166;Q92621;P529  
48;Q9UKX7;Q8NFH5;P35658;Q14397;Q99567;P49792;Q9BVL2;Q96HA1;P14672;Q7Z3B4;P49790;P193  
67}

19017 Pathogen[ P14079] interacts with 33 human  
partners:{Q8NFH5;Q9BW27;Q96HA1;P57740;Q8N1F7;P35658;P14672;Q92621;Q8TEM1;P11166;Q9UK  
X7;Q9BVL2;O15504;Q8WUM0;P12270;Q9UIH9;Q99567;Q8NFH3;Q96EE3;P37198;P49790;Q8NFH4;P784  
06;Q7Z3B4;Q14397;Q01469;Q12769;Q6ZJW1;Q9BX66;Q5SRE5;Q9NRG9;O75694;P52948}

19018 Pathogen[ P03383] interacts with 34 human  
partners:{Q9BVL2;Q96EE3;O15504;Q8WUM0;Q92621;P49792;Q8NFH4;P12270;P19367;P52948;P317  
49;P78406;P57740;Q8NFH5;Q8N1F7;Q8TEM1;Q12769;P11168;Q99567;Q14397;Q9BW27;Q5SRE5;P356  
58;Q96HA1;Q9NRG9;P11169;P37198;Q9UKX7;P14672;Q7Z3B4;P49790;O75694;Q8NFH3;P22732}

19019 Pathogen[ P03410] interacts with 35 human  
partners:{Q99567;Q14397;Q7Z3B4;Q9BW27;P22732;Q9UKX7;P11166;Q6ZJW1;Q8NFH4;Q5SRE5;P529  
48;O15504;P11168;Q9UIH9;O75694;P31749;P78406;Q96HA1;Q8N1F7;P49790;P12270;P35658;Q8NF  
H5;Q8TEM1;Q96EE3;Q8WUM0;Q01469;P57740;Q12769;Q9NRG9;Q8NFH3;Q9BVL2;Q9BX66;Q92621;P497  
92}

19020 Pathogen[ P14075] interacts with 34 human  
partners:{P11169;P78406;P57740;P49792;Q8N1F7;P19367;P22732;Q9UKX7;P35658;P12270;Q926  
21;Q96HA1;Q9BW27;P31749;Q8TEM1;Q96EE3;P37198;Q5SRE5;Q14397;Q8NFH3;O15504;Q99567;Q127  
69;P11168;Q9BVL2;P49790;Q8WUM0;P14672;O75694;Q9NRG9;Q7Z3B4;Q8NFH4;Q8NFH5;P52948}

19021 Pathogen[ P0C206] interacts with 35 human  
partners:{Q96EE3;Q92621;P49790;P31749;Q5SRE5;Q8NFH5;Q9NRG9;Q6ZJW1;Q7Z3B4;Q96HA1;Q9UI  
H9;P57740;P11166;P19367;Q8WUM0;P11168;P49792;Q8TEM1;Q9UKX7;O75694;Q99567;Q8NFH4;Q9BX  
66;P14672;P78406;Q14397;O15504;Q12769;Q01469;Q8NFH3;Q8N1F7;P35658;Q9BW27;Q9BVL2;P122  
70}

19022 Pathogen[ P03363] interacts with 33 human  
partners:{Q7Z3B4;Q5SRE5;P12270;Q9BX66;Q8NFH4;Q14397;Q8NFH3;Q12769;Q01469;Q9UKX7;Q9NR  
G9;Q8WUM0;Q9BVL2;Q99567;P31749;Q96HA1;P49792;P35658;Q6ZJW1;O75694;P49790;P57740;P146  
72;P78406;P52948;O15504;P37198;Q8N1F7;Q9UIH9;Q92621;Q8NFH5;P11166;Q9BW27}

19023 [Cluster 1730]GO:0090190+P biological\_process [name] positive regulation of branching  
involved in ureteric bud morphogenesis [def] "Any process that increases the rate,  
frequency or extent of branching involved in ureteric bud morphogenesis, the process in  
which the branching structure of the ureteric bud is generated and organized. The  
ureteric bud is an epithelial tube that grows out from the metanephric duct. The bud  
elongates and branches to give rise to the ureter and kidney collecting tubules." [GOC

19024 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9Y5V3;P09629}

19025 Pathogen[ P0C214] interacts with 2 human partners:{Q9Y5V3;P09629}

19026 Pathogen[ P03346] interacts with 5 human  
partners:{Q9UIU6;Q06710;P09629;Q15475;Q9Y5V3}

19027 Pathogen[ Q85601] interacts with 2 human partners:{P09629;Q9Y5V3}

19028 Pathogen[ P14079] interacts with 2 human partners:{P09629;Q9Y5V3}

19029 Pathogen[ P03383] interacts with 2 human partners:{Q9Y5V3;P09629}

19030 Pathogen[ P03410] interacts with 2 human partners:{P09629;Q9Y5V3}

19031 Pathogen[ P14075] interacts with 2 human partners:{P09629;Q9Y5V3}

19032 Pathogen[ P0C206] interacts with 2 human partners:{Q9Y5V3;P09629}

19033 Pathogen[ P03363] interacts with 2 human partners:{Q9Y5V3;P09629}

19034 [Cluster 1731]GO:0007257+P biological\_process [name] activation of JUN kinase activity  
[def] "The initiation of the activity of the inactive enzyme JUN kinase by  
phosphorylation by a JUN kinase kinase (JNKK)." [GOC

19035 Pathogen[ Q2Q067] interacts with 5 human  
partners:{Q9UER7;Q99750;Q13233;Q03468;Q9P1T7}

19036 Pathogen[ P0C214] interacts with 6 human  
partners:{Q99750;Q13233;Q9UER7;Q9P1T7;Q96CA5;Q03468}

19037 Pathogen[ P03346] interacts with 6 human

19038 Pathogen[ Q85601] interacts with 6 human partners: {Q03468;Q99750;Q9UER7;Q13233;Q9P1T7;Q96CA5}

19039 Pathogen[ P14079] interacts with 4 human partners: {Q9UER7;Q9P1T7;Q03468;Q99750}

19040 Pathogen[ P03383] interacts with 5 human partners: {Q13233;Q03468;Q9UER7;Q99750;Q9P1T7}

19041 Pathogen[ P03410] interacts with 5 human partners: {Q13233;Q03468;Q9P1T7;Q9UER7;Q99750}

19042 Pathogen[ P14075] interacts with 5 human partners: {Q9P1T7;Q03468;Q99750;Q9UER7;Q13233}

19043 Pathogen[ P0C206] interacts with 6 human partners: {Q03468;Q9UER7;Q13233;Q96CA5;Q99750;Q9P1T7}

19044 Pathogen[ P03363] interacts with 7 human partners: {Q99750;Q9UER7;Q9P1T7;Q13480;Q03468;Q96CA5;Q13233}

19045 [Cluster 1732]GO:0032729+P biological\_process [name] positive regulation of interferon-gamma production [def] "Any process that activates or increases the frequency, rate, or extent of interferon-gamma production. Interferon-gamma is also known as type II interferon." [GOC

19046 Pathogen[ Q2Q067] interacts with 2 human partners: {P20749;Q02556}

19047 Pathogen[ P0C214] interacts with 3 human partners: {Q02556;P20749;P10809}

19048 Pathogen[ P03346] interacts with 3 human partners: {O75995;Q02556;P20749}

19049 Pathogen[ Q85601] interacts with 2 human partners: {Q02556;P20749}

19050 Pathogen[ P14079] interacts with 4 human partners: {Q8IU54;P20749;P29459;Q02556}

19051 Pathogen[ P03383] interacts with 2 human partners: {P20749;Q02556}

19052 Pathogen[ P03410] interacts with 3 human partners: {P20749;Q02556;P29459}

19053 Pathogen[ P14075] interacts with 2 human partners: {Q02556;P20749}

19054 Pathogen[ P0C206] interacts with 2 human partners: {Q02556;P20749}

19055 Pathogen[ P03363] interacts with 2 human partners: {Q02556;P20749}

19056 [Cluster 1733]GO:0001831+P biological\_process [name] trophectodermal cellular morphogenesis [def] "The morphogenesis of trophectoderm cells." [GOC

19057 Pathogen[ Q2Q067] interacts with 1 human partners: {Q13618}

19058 Pathogen[ P0C214] interacts with 1 human partners: {Q13618}

19059 Pathogen[ P03346] interacts with 2 human partners: {Q13618;O95718}

19060 Pathogen[ Q85601] interacts with 1 human partners: {Q13618}

19061 Pathogen[ P14079] interacts with 2 human partners: {Q13618;O95718}

19062 Pathogen[ P03383] interacts with 1 human partners: {Q13618}

19063 Pathogen[ P03410] interacts with 1 human partners: {Q13618}

19064 Pathogen[ P14075] interacts with 1 human partners: {Q13618}

19065 Pathogen[ P0C206] interacts with 2 human partners: {O95718;Q13618}

19066 Pathogen[ P03363] interacts with 1 human partners: {Q13618}

19067 [Cluster 1734]GO:0032091+P biological\_process [name] negative regulation of protein binding [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of protein binding." [GOC

19068 Pathogen[ Q2Q067] interacts with 10 human partners: {Q9H2P0;P09913;Q99497;O75381;Q9NSA3;Q8IX07;P09914;Q13569;Q9HC62;Q86X55}

19069 Pathogen[ P0C214] interacts with 10 human partners: {P09914;P09913;O75381;Q99497;Q9NSA3;Q8IX07;Q9HC62;Q86X55;Q13569;Q9H2P0}

19070 Pathogen[ P03346] interacts with 10 human partners: {Q9H2P0;O75381;Q9NSA3;Q8IX07;Q99497;Q9HC62;Q13569;Q86X55;P09913;P09914}

19071 Pathogen[ Q85601] interacts with 10 human partners: {Q99497;P09913;Q86X55;Q9HC62;Q9H2P0;Q8IX07;Q13569;P09914;O75381;Q9NSA3}

19072 Pathogen[ P14079] interacts with 11 human partners: {P09914;Q99497;Q9H2P0;P09913;P45983;Q9HC62;P03973;P48681;Q8IX07;O75381;Q13569}

19073 Pathogen[ P03383] interacts with 6 human partners: {Q86X55;P09913;Q9NSA3;O75381;Q13569;Q9HC62}

19074 Pathogen[ P03410] interacts with 9 human partners: {Q99497;Q9NSA3;Q86X55;O75381;Q8IX07;Q9HC62;Q13569;P09913;P09914}

19075 Pathogen[ P14075] interacts with 6 human partners: {P09913;O75381;Q9NSA3;Q86X55;Q9HC62;Q13569}

19076 Pathogen[ P0C206] interacts with 10 human partners: {Q9NSA3;O75381;Q86X55;Q9HC62;Q99497;Q13569;P09913;Q8IX07;Q9H2P0;P09914}

19077 Pathogen[ P03363] interacts with 8 human partners: {P09914;P09913;Q9H2P0;Q9NSA3;Q9HC62;O75381;Q13569;Q86X55}

19078 [Cluster 1735]GO:0051299+P biological\_process [name] centrosome separation [def] "The process in which duplicated centrosome components move away from each other. The centriole pair within each centrosome becomes part of a separate microtubule organizing center that nucleates a radial array of microtubules called an aster. The two asters move to opposite sides of the nucleus to form the two poles of the mitotic spindle." [GOC

19079 Pathogen[ Q2Q067] interacts with 1 human partners: {Q8N137}

19080 Pathogen[ P0C214] interacts with 1 human partners: {Q8N137}

19081 Pathogen[ P03346] interacts with 1 human partners: {Q8N137}

19082 Pathogen[ Q85601] interacts with 2 human partners: {Q8N137;P51955}

19083 Pathogen[ P14079] interacts with 2 human partners: {P51955;Q8N137}

19084 Pathogen[ P03383] interacts with 1 human partners: {Q8N137}



19085 Pathogen[ P03410] interacts with 1 human partners:{Q8N137}  
19086 Pathogen[ P14075] interacts with 1 human partners:{Q8N137}  
19087 Pathogen[ P0C206] interacts with 2 human partners:{Q8N137;P51955}  
19088 Pathogen[ P03363] interacts with 1 human partners:{Q8N137}  
19089 [Cluster 1736]GO:0034551+P biological\_process [name] mitochondrial respiratory chain complex III assembly [def] "The aggregation, arrangement and bonding together of a set of components to form the cytochrome bc(1) complex (also known as ubiquinol-cytochrome c reductase), in the mitochondrial inner membrane." [GOC  
19090 Pathogen[ Q2Q067] interacts with 1 human partners:{Q6DKK2}  
19091 Pathogen[ P0C214] interacts with 1 human partners:{Q6DKK2}  
19092 Pathogen[ P03346] interacts with 1 human partners:{Q6DKK2}  
19093 Pathogen[ Q85601] interacts with 1 human partners:{Q6DKK2}  
19094 Pathogen[ P14079] interacts with 1 human partners:{Q6DKK2}  
19095 Pathogen[ P03383] interacts with 1 human partners:{Q6DKK2}  
19096 Pathogen[ P03410] interacts with 1 human partners:{Q6DKK2}  
19097 Pathogen[ P14075] interacts with 1 human partners:{Q6DKK2}  
19098 Pathogen[ P0C206] interacts with 1 human partners:{Q6DKK2}  
19099 Pathogen[ P03363] interacts with 1 human partners:{Q6DKK2}  
19100 [Cluster 1737]GO:0051259+P biological\_process [name] protein oligomerization [def] "The process of creating protein oligomers, compounds composed of a small number, usually between three and ten, of component monomers\_ protein oligomers may be composed of different or identical monomers. Oligomers may be formed by the polymerization of a number of monomers or the depolymerization of a large protein polymer." [GOC  
19101 Pathogen[ Q2Q067] interacts with 5 human partners:{Q9UDY8;O95999;P06748;P31350;Q13233}  
19102 Pathogen[ P0C214] interacts with 7 human partners:{P31350;P06748;Q9UDY8;Q13233;O95999;P23921;Q15274}  
19103 Pathogen[ P03346] interacts with 9 human partners:{Q13263;P06748;Q99784;Q9UDY8;O95999;Q9Y371;P31350;Q13233;Q14596}  
19104 Pathogen[ Q85601] interacts with 7 human partners:{Q9UDY8;Q14596;P31350;Q13263;P06748;Q13233;O95999}  
19105 Pathogen[ P14079] interacts with 7 human partners:{O95999;Q14596;P31350;Q9Y371;P06748;Q9Y239;Q15274}  
19106 Pathogen[ P03383] interacts with 4 human partners:{P06748;Q13233;P31350;O95999}  
19107 Pathogen[ P03410] interacts with 10 human partners:{Q15274;P31350;Q9Y239;P06748;Q13233;Q14596;O95999;Q15049;Q9Y371;P23921}  
19108 Pathogen[ P14075] interacts with 4 human partners:{P31350;P06748;O95999;Q13233}  
19109 Pathogen[ P0C206] interacts with 8 human partners:{Q13263;Q9UDY8;O95999;Q14596;Q13233;Q15274;P06748;P31350}  
19110 Pathogen[ P03363] interacts with 2 human partners:{P06748;Q13233}  
19111 [Cluster 1738]GO:0043001+P biological\_process [name] Golgi to plasma membrane protein transport [def] "The directed movement of proteins from the Golgi to the plasma membrane in transport vesicles that move from the trans-Golgi network to the plasma membrane." [ISBN  
19112 Pathogen[ Q2Q067] interacts with 7 human partners:{Q9BSU1;Q01082;Q9H2G9;Q9H1H9;Q96CV9;Q8IWJ2;Q13439}  
19113 Pathogen[ P0C214] interacts with 6 human partners:{Q9BSU1;Q8IWJ2;Q01082;Q9H2G9;Q96CV9;Q13439}  
19114 Pathogen[ P03346] interacts with 7 human partners:{Q13439;Q9BSU1;Q9H2G9;Q9H1H9;Q01082;Q96CV9;Q8IWJ2}  
19115 Pathogen[ Q85601] interacts with 7 human partners:{Q9BSU1;Q8IWJ2;Q96CV9;Q13439;Q9H1H9;Q01082;Q9H2G9}  
19116 Pathogen[ P14079] interacts with 8 human partners:{Q01082;Q9BSU1;Q8NFJ9;Q13439;Q9H2G9;Q9H1H9;Q8IWJ2;Q96CV9}  
19117 Pathogen[ P03383] interacts with 6 human partners:{Q9BSU1;Q8IWJ2;Q13439;Q9H2G9;Q9H1H9;Q96CV9}  
19118 Pathogen[ P03410] interacts with 8 human partners:{Q9H2G9;Q8NFJ9;Q9H1H9;Q9BSU1;Q96CV9;Q01082;Q13439;Q8IWJ2}  
19119 Pathogen[ P14075] interacts with 6 human partners:{Q9BSU1;Q9H2G9;Q9H1H9;Q8IWJ2;Q13439;Q96CV9}  
19120 Pathogen[ P0C206] interacts with 8 human partners:{Q13439;Q01082;Q9BSU1;Q96CV9;Q9H1H9;Q9H2G9;Q8NFJ9;Q8IWJ2}  
19121 Pathogen[ P03363] interacts with 8 human partners:{Q9BSU1;Q96CV9;Q13439;Q01082;Q9H2G9;Q8IWJ2;Q9H1H9;Q8NFJ9}  
19122 [Cluster 1739]GO:0006626+P biological\_process [name] protein targeting to mitochondrion [def] "The process of directing proteins towards and into the mitochondrion, usually mediated by mitochondrial proteins that recognize signals contained within the imported protein." [GOC  
19123 Pathogen[ Q2Q067] interacts with 18 human partners:{P55957;P63104;Q9HAV7;P38646;Q96B49;Q8TAA5;O00170;Q15388;Q5HYI7;Q9GZY8;O6020;Q9Y5J6;P62072;Q9Y5J7;O43615;O14925;Q9P0U1;Q7Z6M4}  
19124 Pathogen[ P0C214] interacts with 24 human partners:{O00170;Q15388;Q13505;Q9HAV7;O60220;Q9Y512;P55957;Q7Z6M4;P55789;P62072;O14925;Q8TDB4;O43615;Q9Y5J9;P38646;Q9Y5J6;Q8TAA5;Q3ZCQ8;Q9Y5J7;Q8N4Q1;Q96B49;Q9P0U1;Q5HYI7;Q9GZY8}  
19125 Pathogen[ P03346] interacts with 24 human

partners: {O14925;Q9NS69;Q8N4Q1;Q9Y3D7;O43615;P55957;Q9P0U1;Q9Y5J7;O00170;Q8TDB4;Q9HAV7;P38646;Q9Y5J6;O60220;Q9Y512;Q96B49;P62072;Q7Z6M4;P63104;Q3ZCQ8;Q15388;Q5HYI7;Q9GZY8;Q8TAA5}

19126 Pathogen[ Q85601] interacts with 21 human  
partners: {O14925;P63104;Q8TAA5;Q15388;Q7Z6M4;P62072;Q9Y5J9;Q9Y5J6;Q8TDB4;O60220;Q9Y5J7;O00170;Q9Y512;P55957;Q3ZCQ8;Q9HAV7;O43615;P38646;Q5HYI7;Q13505;Q9GZY8}

19127 Pathogen[ P14079] interacts with 32 human  
partners: {Q3ZCQ8;O43615;Q8N4H5;Q5HYI7;Q9Y3D7;P62072;Q13505;O00170;Q9P0U1;Q96B49;Q9Y5J7;O14925;Q9NS69;Q9BVV7;Q15388;P63104;O75431;Q9Y512;P55789;Q8N4Q1;Q8TDB4;Q99595;Q7Z6M4;P38646;O60220;Q9GZY8;Q96Q11;Q9Y5J9;Q9Y5L4;P55957;Q9HAV7;Q8TAA5}

19128 Pathogen[ P03383] interacts with 21 human  
partners: {Q9Y5J7;P62072;P38646;Q8TDB4;O14925;O43615;P55957;Q9HAV7;O00170;O60220;Q96B49;P63104;Q9Y5J6;Q15388;Q5HYI7;Q9P0U1;Q8TAA5;Q7Z6M4;Q9GZY8;Q9Y5J9;Q13505}

19129 Pathogen[ P03410] interacts with 32 human  
partners: {Q8N4H5;Q96Q11;Q9Y5L4;Q9Y512;P62072;Q96B49;Q15388;Q9GZY8;P38646;Q9Y5J7;Q13505;Q8TAA5;Q9NS69;P55957;O14925;Q99595;Q3ZCQ8;O00170;O43615;Q5HYI7;Q9Y3D7;P63104;Q9Y5J6;Q9Y5J9;Q9P0U1;O60220;Q9HAV7;Q8TDB4;P55789;Q8N4Q1;Q7Z6M4;O75431}

19130 Pathogen[ P14075] interacts with 24 human  
partners: {Q9P0U1;O14925;Q13505;Q9HAV7;Q9Y5J9;P55957;Q96B49;P62072;Q15388;Q8TAA5;Q9GZY8;P38646;Q5HYI7;Q9Y512;O00170;O60220;P63104;P55789;Q8TDB4;Q9Y5J7;Q9Y5J6;Q9NS69;O43615;Q7Z6M4}

19131 Pathogen[ P0C206] interacts with 29 human  
partners: {Q9Y5L4;Q9Y5J6;Q7Z6M4;P55789;Q96B49;Q9HAV7;O60220;Q9Y5J9;Q5HYI7;P38646;Q9Y512;Q8N4Q1;Q9Y5J7;O43615;P63104;Q3ZCQ8;Q9Y3D7;Q9NS69;Q9P0U1;O14925;Q8TAA5;Q13505;Q15388;P62072;Q9GZY8;O00170;Q8N4H5;P55957;Q8TDB4}

19132 Pathogen[ P03363] interacts with 15 human  
partners: {P55957;Q15388;O14925;Q3ZCQ8;P63104;O43615;P38646;Q9Y5J7;Q9P0U1;Q8TAA5;Q9Y512;Q5HYI7;Q9NS69;O00170;Q9GZY8}

19133 [Cluster 1740]GO:0060126+P biological\_process [name] somatotropin secreting cell differentiation [def] "The process in which a relatively unspecialized cell acquires specialized structural and/or functional features of a somatotropin secreting cell. A somatotropin secreting cell is an acidophilic cell of the anterior pituitary that produces growth hormone, somatotropin." [GOC  
19134 Pathogen[ Q2Q067] interacts with 2 human partners: {P28069;O75360}  
19135 Pathogen[ P0C214] interacts with 2 human partners: {P28069;O75360}  
19136 Pathogen[ P03346] interacts with 2 human partners: {P28069;O75360}  
19137 Pathogen[ Q85601] interacts with 2 human partners: {O75360;P28069}  
19138 Pathogen[ P14079] interacts with 2 human partners: {P28069;O75360}  
19139 Pathogen[ P03383] interacts with 2 human partners: {P28069;O75360}  
19140 Pathogen[ P03410] interacts with 2 human partners: {P28069;O75360}  
19141 Pathogen[ P14075] interacts with 2 human partners: {P28069;O75360}  
19142 Pathogen[ P0C206] interacts with 2 human partners: {O75360;P28069}  
19143 Pathogen[ P03363] interacts with 2 human partners: {O75360;P28069}

19144 [Cluster 1741]GO:0009611+P biological\_process [name] response to wounding [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a stimulus indicating damage to the organism." [GOC  
19145 Pathogen[ Q2Q067] interacts with 8 human  
partners: {O14786;P14921;P14136;Q9NVK5;Q12904;Q13243;Q01860;P63000}

19146 Pathogen[ P0C214] interacts with 11 human  
partners: {P63000;O14786;Q12904;P14921;P14136;Q13243;P42574;P07093;Q9NVK5;P10909;Q01860}

19147 Pathogen[ P03346] interacts with 11 human  
partners: {Q02535;Q9NVK5;P14136;Q92826;P42574;Q01860;P14921;Q12904;Q13243;P63000;O14786}

19148 Pathogen[ Q85601] interacts with 9 human  
partners: {Q13243;P14921;P63000;P14136;O14786;Q9NVK5;P07093;P17677;Q01860}

19149 Pathogen[ P14079] interacts with 7 human  
partners: {P17677;Q13243;P10909;P14136;Q01860;Q9NVK5;Q12904}

19150 Pathogen[ P03383] interacts with 6 human  
partners: {Q12904;P14921;P63000;P14136;Q13243;Q01860}

19151 Pathogen[ P03410] interacts with 10 human  
partners: {O14786;P63000;Q01860;Q9NVK5;Q12904;P17677;P14136;Q13243;P14921;P10909}

19152 Pathogen[ P14075] interacts with 6 human  
partners: {Q13243;Q01860;P14136;Q12904;P14921;P63000}

19153 Pathogen[ P0C206] interacts with 11 human  
partners: {P17677;P14921;Q01860;Q13243;Q9NVK5;O14786;P63000;P14136;P10909;P42574;Q12904}

19154 Pathogen[ P03363] interacts with 8 human  
partners: {O14786;Q9NVK5;P14921;P63000;Q13243;P14136;Q92826;Q01860}

19155 [Cluster 1742]GO:0008088+P biological\_process [name] axon cargo transport [def] "The directed movement of organelles or molecules along microtubules in nerve cell axons." [ISBN  
19156 Pathogen[ Q2Q067] interacts with 3 human partners: {Q02410;Q9H0B6;P07197}  
19157 Pathogen[ P0C214] interacts with 3 human partners: {Q9H0B6;Q02410;P07197}  
19158 Pathogen[ P03346] interacts with 3 human partners: {Q02410;P07197;Q9H0B6}

19159 Pathogen[ Q85601] interacts with 3 human partners:{P07197;Q02410;Q9H0B6}  
19160 Pathogen[ P14079] interacts with 4 human partners:{Q02410;P07197;Q9H0B6;P10636}  
19161 Pathogen[ P03383] interacts with 3 human partners:{Q9H0B6;P07197;Q02410}  
19162 Pathogen[ P03410] interacts with 4 human partners:{Q9H0B6;Q02410;P10636;P07197}  
19163 Pathogen[ P14075] interacts with 3 human partners:{Q02410;P07197;Q9H0B6}  
19164 Pathogen[ P0C206] interacts with 4 human partners:{P10636;Q9H0B6;P07197;Q02410}  
19165 Pathogen[ P03363] interacts with 3 human partners:{P07197;Q9H0B6;Q02410}  
19166 [Cluster 1743]GO:0002076+P biological\_process [name] osteoblast development [def]  
"The process whose specific outcome is the progression of an osteoblast over time, from  
its formation to the mature structure. Osteoblast development does not include the steps  
involved in committing a cranial neural crest cell or an osteoprogenitor cell to an  
osteoblast fate. An osteoblast is a cell that gives rise to bone." [GOC  
19167 Pathogen[ Q2Q067] interacts with 9 human  
partners:{O43364;P56524;Q9UQL6;P35548;Q9UGP4;P84022;O00255;Q9UPW6;Q9Y5J3}  
19168 Pathogen[ P0C214] interacts with 9 human  
partners:{Q9UGP4;Q9Y5J3;P84022;P56524;P17535;Q9UPW6;Q9UQL6;P35548;O00255}  
19169 Pathogen[ P03346] interacts with 10 human  
partners:{Q9UGP4;Q9UPW6;P35548;P56524;P17535;Q9Y5J3;O43364;P84022;O00255;Q9UQL6}  
19170 Pathogen[ Q85601] interacts with 10 human  
partners:{Q9UPW6;Q9UQL6;O43364;P17535;P35548;O00255;P84022;Q9UGP4;P56524;Q9Y5J3}  
19171 Pathogen[ P14079] interacts with 8 human  
partners:{Q9UQL6;Q9UPW6;O43364;Q9Y5J3;P56524;O00255;Q9UGP4;P17535}  
19172 Pathogen[ P03383] interacts with 8 human  
partners:{Q9UPW6;Q9UQL6;P84022;P35548;Q9UGP4;O00255;P56524;P17535}  
19173 Pathogen[ P03410] interacts with 10 human  
partners:{P84022;Q9Y5J3;Q9UGP4;Q9UPW6;Q9UQL6;P35548;P17535;P56524;O43364;O00255}  
19174 Pathogen[ P14075] interacts with 8 human  
partners:{Q9UGP4;P35548;P56524;O00255;Q9UPW6;Q9UQL6;P84022;P17535}  
19175 Pathogen[ P0C206] interacts with 10 human  
partners:{P84022;Q9UGP4;O00255;P17535;Q9Y5J3;P35548;Q9UPW6;O43364;P56524;Q9UQL6}  
19176 Pathogen[ P03363] interacts with 8 human  
partners:{P17535;Q9Y5J3;Q9UQL6;P35548;Q9UGP4;P84022;O43364;Q9UPW6}  
19177 [Cluster 1744]GO:0030902+P biological\_process [name] hindbrain development [def]  
"The process whose specific outcome is the progression of the hindbrain over time, from  
its formation to the mature structure. The hindbrain is the posterior of the three  
primary divisions of the developing chordate brain, or the corresponding part of the  
adult brain (in vertebrates, includes the cerebellum, pons, and medulla oblongata and  
controls the autonomic functions and equilibrium)." [http  
19178 Pathogen[ Q2Q067] interacts with 8 human  
partners:{Q13562;P35680;Q8NHM5;O15078;O15198;P49639;Q9HBD4;Q15797}  
19179 Pathogen[ P0C214] interacts with 6 human  
partners:{O15078;O15198;P49639;Q9HBD4;Q15797;Q8NHM5}  
19180 Pathogen[ P03346] interacts with 14 human  
partners:{P49639;Q9HBD4;Q7RTS3;Q05925;Q15797;P19622;P52951;O15198;Q16650;P35680;Q8N1  
57;O15078;Q8NHM5;Q13562}  
19181 Pathogen[ Q85601] interacts with 8 human  
partners:{O15198;P49639;Q15797;O15078;Q13562;Q8NHM5;P35680;Q9HBD4}  
19182 Pathogen[ P14079] interacts with 7 human  
partners:{P35680;Q8N157;O15198;Q8NHM5;Q15797;O15078;P49639}  
19183 Pathogen[ P03383] interacts with 5 human  
partners:{O15198;Q9HBD4;Q15797;P49639;O15078}  
19184 Pathogen[ P03410] interacts with 7 human  
partners:{O15198;Q8N157;Q15797;O15078;P49639;P35680;Q9HBD4}  
19185 Pathogen[ P14075] interacts with 3 human partners:{Q9HBD4;O15078;O15198}  
19186 Pathogen[ P0C206] interacts with 9 human  
partners:{P49639;P35680;O15078;Q8N157;Q8NHM5;Q13562;Q15797;Q9HBD4;O15198}  
19187 Pathogen[ P03363] interacts with 10 human  
partners:{P19622;O15078;Q7RTS3;Q15797;P49639;Q8N157;Q9HBD4;Q05925;P52951;O15198}  
19188 [Cluster 1745]GO:0035372+P biological\_process [name] protein localization to  
microtubule [def] "A process in which a protein is transported to, or maintained at, a  
microtubule." [GOC  
19189 Pathogen[ Q2Q067] interacts with 2 human partners:{Q96JM3;Q15691}  
19190 Pathogen[ P0C214] interacts with 2 human partners:{Q15691;Q96JM3}  
19191 Pathogen[ P03346] interacts with 2 human partners:{Q15691;Q96JM3}  
19192 Pathogen[ Q85601] interacts with 2 human partners:{Q96JM3;Q15691}  
19193 Pathogen[ P14079] interacts with 3 human partners:{Q15691;O60610;Q96JM3}  
19194 Pathogen[ P03383] interacts with 1 human partners:{Q15691}  
19195 Pathogen[ P03410] interacts with 3 human partners:{Q96JM3;O60610;Q15691}  
19196 Pathogen[ P14075] interacts with 1 human partners:{Q15691}  
19197 Pathogen[ P0C206] interacts with 2 human partners:{Q15691;Q96JM3}  
19198 Pathogen[ P03363] interacts with 2 human partners:{Q15691;Q96JM3}  
19199 [Cluster 1746]GO:0033683+P biological\_process [name] nucleotide-excision repair, DNA  
incision [def] "A process that results in the endonucleolytic cleavage of the damaged  
strand of DNA. The incision occurs at the junction of single-stranded DNA and  
double-stranded DNA that is formed when the DNA duplex is unwound." [GOC  
19200 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9Y2M0;Q92889}

19201 Pathogen[ P0C214] interacts with 2 human partners:{Q92889;Q9Y2M0}  
19202 Pathogen[ P03346] interacts with 2 human partners:{Q92889;Q9Y2M0}  
19203 Pathogen[ Q85601] interacts with 3 human partners:{Q9Y2M0;Q92889;P19447}  
19204 Pathogen[ P14079] interacts with 3 human partners:{Q92889;Q9Y2M0;P19447}  
19205 Pathogen[ P03383] interacts with 1 human partners:{Q9Y2M0}  
19206 Pathogen[ P03410] interacts with 3 human partners:{Q92889;P19447;Q9Y2M0}  
19207 Pathogen[ P14075] interacts with 1 human partners:{Q9Y2M0}  
19208 Pathogen[ P0C206] interacts with 3 human partners:{Q9Y2M0;P19447;Q92889}  
19209 Pathogen[ P03363] interacts with 2 human partners:{Q9Y2M0;Q92889}  
19210 [Cluster 1747]GO:0060484+P biological\_process [name] lung-associated mesenchyme development [def] "The biological process whose specific outcome is the progression of a lung-associated mesenchyme from an initial condition to its mature state. This process begins with the formation of lung-associated mesenchyme and ends with the mature structure. Lung-associated mesenchyme is the tissue made up of loosely connected mesenchymal cells in the lung." [GOC  
19211 Pathogen[ Q2Q067] interacts with 2 human partners:{Q7Z7J5;P20719}  
19212 Pathogen[ P0C214] interacts with 1 human partners:{Q7Z7J5}  
19213 Pathogen[ P03346] interacts with 2 human partners:{Q7Z7J5;P20719}  
19214 Pathogen[ Q85601] interacts with 1 human partners:{Q7Z7J5}  
19215 Pathogen[ P14079] interacts with 1 human partners:{Q7Z7J5}  
19216 Pathogen[ P03383] interacts with 1 human partners:{Q7Z7J5}  
19217 Pathogen[ P03410] interacts with 1 human partners:{Q7Z7J5}  
19218 Pathogen[ P14075] interacts with 1 human partners:{Q7Z7J5}  
19219 Pathogen[ P0C206] interacts with 2 human partners:{Q7Z7J5;P20719}  
19220 Pathogen[ P03363] interacts with 2 human partners:{P20719;Q7Z7J5}  
19221 [Cluster 1748]GO:0051000+P biological\_process [name] positive regulation of nitric-oxide synthase activity [def] "Any process that activates or increases the activity of the enzyme nitric-oxide synthase." [GOC  
19222 Pathogen[ Q2Q067] interacts with 2 human partners:{P31749;P30793}  
19223 Pathogen[ P0C214] interacts with 2 human partners:{P30793;P31749}  
19224 Pathogen[ P03346] interacts with 1 human partners:{P31749}  
19225 Pathogen[ Q85601] interacts with 2 human partners:{P31749;P30793}  
19226 Pathogen[ P14079] interacts with 1 human partners:{P30793}  
19227 Pathogen[ P03383] interacts with 1 human partners:{P31749}  
19228 Pathogen[ P03410] interacts with 2 human partners:{P31749;P30793}  
19229 Pathogen[ P14075] interacts with 2 human partners:{P31749;P30793}  
19230 Pathogen[ P0C206] interacts with 2 human partners:{P31749;P30793}  
19231 Pathogen[ P03363] interacts with 1 human partners:{P31749}  
19232 [Cluster 1749]GO:0002819+P biological\_process [name] regulation of adaptive immune response [def] "Any process that modulates the frequency, rate, or extent of an adaptive immune response." [GOC  
19233 Pathogen[ Q2Q067] interacts with 2 human partners:{Q92985;P10914}  
19234 Pathogen[ P0C214] interacts with 2 human partners:{P10914;Q92985}  
19235 Pathogen[ P03346] interacts with 2 human partners:{P10914;Q92985}  
19236 Pathogen[ Q85601] interacts with 2 human partners:{P10914;Q92985}  
19237 Pathogen[ P14079] interacts with 2 human partners:{Q92985;P10914}  
19238 Pathogen[ P03383] interacts with 2 human partners:{P10914;Q92985}  
19239 Pathogen[ P03410] interacts with 2 human partners:{P10914;Q92985}  
19240 Pathogen[ P14075] interacts with 2 human partners:{Q92985;P10914}  
19241 Pathogen[ P0C206] interacts with 2 human partners:{P10914;Q92985}  
19242 Pathogen[ P03363] interacts with 2 human partners:{Q92985;P10914}  
19243 [Cluster 1750]GO:0045637+P biological\_process [name] regulation of myeloid cell differentiation [def] "Any process that modulates the frequency, rate or extent of myeloid cell differentiation." [GOC  
19244 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96QR8}  
19245 Pathogen[ P0C214] interacts with 1 human partners:{Q96QR8}  
19246 Pathogen[ P03346] interacts with 2 human partners:{Q96QR8;P17542}  
19247 Pathogen[ Q85601] interacts with 1 human partners:{Q96QR8}  
19248 Pathogen[ P14079] interacts with 1 human partners:{Q96QR8}  
19249 Pathogen[ P03383] interacts with 1 human partners:{Q96QR8}  
19250 Pathogen[ P03410] interacts with 1 human partners:{Q96QR8}  
19251 Pathogen[ P14075] interacts with 1 human partners:{Q96QR8}  
19252 Pathogen[ P0C206] interacts with 1 human partners:{Q96QR8}  
19253 Pathogen[ P03363] interacts with 1 human partners:{Q96QR8}  
19254 [Cluster 1751]GO:0010917+P biological\_process [name] negative regulation of mitochondrial membrane potential [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of establishment or extent of a mitochondrial membrane potential, the electric potential existing across any mitochondrial membrane arising from charges in the membrane itself and from the charges present in the media on either side of the membrane." [GOC  
19255 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13794}  
19256 Pathogen[ P0C214] interacts with 1 human partners:{Q13794}  
19257 Pathogen[ P03346] interacts with 1 human partners:{Q13794}  
19258 Pathogen[ Q85601] interacts with 1 human partners:{Q13794}  
19259 Pathogen[ P14079] interacts with 1 human partners:{Q13794}  
19260 Pathogen[ P03383] interacts with 1 human partners:{Q13794}

19261 Pathogen[ P03410] interacts with 1 human partners:{Q13794}

19262 Pathogen[ P14075] interacts with 1 human partners:{Q13794}

19263 Pathogen[ P0C206] interacts with 1 human partners:{Q13794}

19264 Pathogen[ P03363] interacts with 1 human partners:{Q13794}

19265 [Cluster 1752]GO:0016044+P biological\_process [name] cellular membrane organization [def] "A process that is carried out at the cellular level which results in the assembly, arrangement of constituent parts, or disassembly of a membrane. A membrane is a double layer of lipid molecules that encloses all cells, and, in eukaryotes, many organelles\_ may be a single or double lipid bilayer\_ also includes associated proteins." [GOC]

19266 Pathogen[ Q2Q067] interacts with 60 human partners:{Q92783;P02792;Q9UL45;O75351;Q9Y6Q5;Q10567;P56377;O43747;Q9H444;O14579;P55735;Q99816;Q9NUP1;Q9BRG1;Q6QNY0;Q96EV8;P48444;Q96PC3;O75886;P11142;Q96CW1;P61923;Q00610;P61966;A5D8V6;P53992;O95486;O94855;Q9UQN3;Q9UN37;Q14677;Q96H20;Q9NZZ3;Q9BXS5;Q9UK41;P50570;P54920;Q9Y3E7;Q99962;Q9H9H4;Q96CF2;P53618;P0CG47;Q5HYK7;Q9NP79;O00161;P0CG48;O95487;O43633;O14964;P35606;Q8WUX9;Q9Y678;P62987;P09496;Q86VN1;Q15436;P78537;Q8NEZ2;P62979}

19267 Pathogen[ P0C214] interacts with 62 human partners:{Q96CW1;P02794;P61923;P55735;Q8WUX9;Q96CF2;O75351;P53992;O14579;Q9NP79;Q9H444;P53618;P35606;P48444;O14964;P78537;Q5HYK7;O75886;P54920;Q9UQN3;Q9UK41;Q99962;Q15436;Q6QNY0;Q9BY43;Q10567;O95487;Q9BRG1;P0CG48;P56377;Q14671;Q9UL45;Q96PC3;Q8NEZ2;Q96EV8;Q9Y3E7;P62987;Q99816;O43747;Q9Y6Q5;P0CG47;Q9NZZ3;P02792;Q9NUP1;P61966;P09496;Q96H20;P50570;A5D8V6;Q9UN37;Q92783;O43633;Q9H9H4;P62979;Q9Y678;Q9BXS5;O00161;O95486;Q86VN1;Q14677;O94855;P11142}

19268 Pathogen[ P03346] interacts with 66 human partners:{P02792;P61966;P55735;Q86XT2;P50570;Q14671;A5D8V6;O43747;P62987;P56377;Q99962;P0CG48;O75886;Q8NEZ2;Q9BXS5;Q9Y678;Q99816;P53618;P11142;P02794;Q86VN1;Q9UK41;O14579;P09496;Q96H20;Q6QNY0;Q96FZ7;O94855;Q96CF2;Q9NZZ3;Q10567;O00161;P48444;Q15436;Q9Y3E7;P78537;Q96EV8;O43633;Q9H444;Q96CW1;Q9H9H4;Q96PC3;P54920;P61923;Q9BRG1;Q9UL45;Q9UQN3;O95486;P62979;Q9HCU5;P0CG47;Q9BY43;Q92783;Q9NP79;Q5HYK7;O75351;O14964;O95487;Q9Y6Q5;P35606;Q14677;Q9NUP1;Q00610;P53992;Q9UN37;Q8WUX9}

19269 Pathogen[ Q85601] interacts with 64 human partners:{Q99816;P54920;Q6QNY0;Q9NP79;P48444;Q00610;P09496;Q9NUP1;Q9UQN3;Q96H20;Q5HYK7;Q96CW1;O14579;O95487;Q9BXS5;Q9BRG1;P56377;Q99962;Q9H9H4;Q86VN1;O43747;P61923;O43633;P0CG48;Q10567;O75886;Q15436;Q96FZ7;Q8WUX9;Q96CF2;Q14677;O75351;Q9UK41;Q9BY43;P78537;Q96EV8;Q9H444;Q8N6T3;Q9Y678;P11142;P50570;P55735;Q92783;Q9NZZ3;O14964;O95486;P62979;Q96PC3;P53618;P0CG47;P02792;P62987;P61966;Q9Y6Q5;O94855;P35606;Q8NEZ2;Q14671;P02794;Q9UN37;Q9Y3E7;O00161;P53992;A5D8V6}

19270 Pathogen[ P14079] interacts with 60 human partners:{Q9H9H4;O75886;Q96CW1;Q86VN1;P61923;Q96CF2;Q9Y6Q5;P61966;P11142;Q9BXS5;P0CG48;Q00610;Q96H20;Q6QNY0;O95487;Q86XT2;P35606;Q9BY43;Q14677;Q10567;Q9NP79;P56377;Q9Y678;Q92783;O94855;P53992;P62979;P62987;P50570;Q9UL45;O43633;Q8WUX9;A5D8V6;Q8NEZ2;Q5HYK7;P02794;Q96LD1;P48444;Q9UN37;Q96FZ7;O43747;O14579;Q9Y3E7;P55735;Q96EV8;Q9NUP1;O75351;Q9NZZ3;O95486;Q9H444;Q9BRG1;Q96PC3;Q14671;Q99816;P0CG47;P78537;P54920;P09496;Q9UQN3;Q99962}

19271 Pathogen[ P03383] interacts with 46 human partners:{Q96CW1;P02794;Q6QNY0;P56377;Q00610;O14579;P62987;P55735;P53618;Q8WUX9;Q9Y678;Q5HYK7;P54920;Q96H20;O95487;Q9Y3E7;Q10567;Q9NZZ3;O75886;Q8NEZ2;Q99816;O95486;P78537;Q9NUP1;Q96EV8;Q15436;Q9UK41;O43633;O43747;O94855;Q9H444;Q9H9H4;P11142;Q9BRG1;Q92783;P62979;P0CG47;Q14677;P53992;P0CG48;O00161;Q9BXS5;O14964;Q86VN1;Q9UN37;Q9UQN3}

19272 Pathogen[ P03410] interacts with 65 human partners:{Q00610;Q9NUP1;P09496;Q9Y6Q5;P78537;Q96PC3;Q96CW1;P02794;P0CG48;Q5HYK7;O43633;Q9BXS5;Q86XT2;Q9H9H4;O94855;Q9NP79;O75351;P53992;O43747;Q6QNY0;P48444;Q10567;P35606;P11142;Q92783;Q9BY43;O14579;P50570;Q86VN1;P62979;Q9UL45;A5D8V6;Q99816;Q9Y3E7;Q15436;Q8WUX9;Q8NEZ2;Q14677;Q9UQN3;Q9UN37;Q9Y678;O95486;Q9H444;Q9NZZ3;P53618;P61923;Q9BRG1;Q96FZ7;Q9HCU5;P62987;Q99962;P55735;Q14671;P02792;Q96H20;P61966;Q96CF2;O00161;P56377;Q96EV8;P0CG47;O75886;O95487;Q96LD1;P54920}

19273 Pathogen[ P14075] interacts with 47 human partners:{P78537;P11142;P09496;Q96CW1;O75886;Q9H444;Q8WUX9;Q92783;Q9NP79;P54920;Q86VN1;Q5HYK7;Q9UK41;P53992;Q8NEZ2;P55735;Q96H20;Q9Y3E7;Q9H9H4;O95487;P0CG48;P62979;O14964;P53618;Q9UQN3;P02794;Q14677;Q6QNY0;Q9NZZ3;Q9NUP1;P62987;O43747;Q15436;O00161;Q9Y678;Q96EV8;P0CG47;Q9BRG1;P56377;O94855;Q9BXS5;Q99816;O95486;Q10567;Q00610;Q9UN37;O14579}

19274 Pathogen[ P0C206] interacts with 66 human partners:{O14964;Q9BRG1;O14579;P0CG48;Q9Y678;Q8WUX9;Q9UN37;Q8NEZ2;Q9H444;P78537;Q8N6T3;Q9UL45;Q9Y6Q5;Q9Y3E7;P53618;O43747;O94855;Q10567;P54920;P02794;P61966;Q9UQN3;Q86VN1;Q00610;P55735;Q99962;Q99816;Q92783;P09496;Q9UK41;Q9H9H4;O00161;A5D8V6;Q9BXS5;Q5HYK7;O95486;Q96H20;P35606;Q96EV8;Q86XT2;O95487;Q96CW1;P62979;O43633;P48444;P02792;Q96CF2;Q14677;P0CG47;Q9BY43;Q9NP79;Q9NUP1;Q9NZZ3;P53992;Q6QNY0;Q96FZ7;P62987;O75886;O75351;Q96PC3;P11142;P50570;P56377;Q14671;P61923;Q15436}

19275 Pathogen[ P03363] interacts with 50 human partners:{Q99962;O43747;P48444;O75886;Q9H444;Q92783;Q9Y678;P78537;P50570;P54920;Q15436;Q00610;Q9NZZ3;O14579;O95486;P53618;Q96H20;Q9BXS5;P61923;O75351;Q9UN37;Q86VN1;Q9BRG1;Q14677;Q9UK41;Q9Y3E7;P62987;O14964;P35606;Q8NEZ2;Q14671;P53992;O95487;Q99816;Q9UQN3;Q5HYK7;O00161;Q9NP79;Q9H9H4;Q6QNY0;Q9NUP1;P55735;P02794;O94855;Q8WUX9;Q10567;P11142;Q96CW1;Q96CF2;A5D8V6}

19276 [Cluster 1753]GO:0007229+P biological\_process [name] integrin-mediated signaling pathway [def] "Any series of molecular signals generated as a consequence of an integrin binding to one of its physiological ligands." [GOC

19277 Pathogen[ Q2Q067] interacts with 5 human partners: {Q14511;P56945;Q9BSQ5;Q13618;P35579}

19278 Pathogen[ P0C214] interacts with 4 human partners: {P56945;Q9BSQ5;Q13618;Q14511}

19279 Pathogen[ P03346] interacts with 7 human partners: {Q14511;Q96RT1;P35579;Q13618;P56945;Q96QH2;Q9BSQ5}

19280 Pathogen[ Q85601] interacts with 6 human partners: {Q96RT1;P35579;P56945;Q13618;Q9BSQ5;Q14511}

19281 Pathogen[ P14079] interacts with 8 human partners: {P35579;Q96QH2;Q08722;Q13618;Q96RT1;Q9BSQ5;O43561;P49023}

19282 Pathogen[ P03383] interacts with 5 human partners: {P56945;Q13618;Q14511;P35579;Q9BSQ5}

19283 Pathogen[ P03410] interacts with 9 human partners: {Q96QH2;Q96RT1;O43561;P35579;Q13618;Q14511;Q08722;P56945;Q9BSQ5}

19284 Pathogen[ P14075] interacts with 5 human partners: {Q14511;Q13618;P35579;Q9BSQ5;P56945}

19285 Pathogen[ P0C206] interacts with 7 human partners: {Q96RT1;Q9BSQ5;Q13618;P35579;Q96QH2;P56945;Q14511}

19286 Pathogen[ P03363] interacts with 7 human partners: {Q96RT1;P35579;Q13618;Q9BSQ5;Q14511;Q96QH2;P56945}

19287 [Cluster 1754]GO:0023035+P biological\_process [name] CD40 signaling pathway [def] "Any series of molecular signals generated as a consequence of the receptor CD40 binding to one of its physiological ligands." [GOC

19288 Pathogen[ Q2Q067] interacts with 1 human partners: {Q8NFZ5}

19289 Pathogen[ P0C214] interacts with 1 human partners: {Q8NFZ5}

19290 Pathogen[ P03346] interacts with 2 human partners: {Q8NFZ5;Q96EP0}

19291 Pathogen[ Q85601] interacts with 1 human partners: {Q8NFZ5}

19292 Pathogen[ P14079] interacts with 2 human partners: {Q96EP0;Q8NFZ5}

19293 Pathogen[ P03383] interacts with 1 human partners: {Q8NFZ5}

19294 Pathogen[ P03410] interacts with 1 human partners: {Q8NFZ5}

19295 Pathogen[ P14075] interacts with 1 human partners: {Q8NFZ5}

19296 Pathogen[ P0C206] interacts with 2 human partners: {Q8NFZ5;Q96EP0}

19297 Pathogen[ P03363] interacts with 2 human partners: {Q96EP0;Q8NFZ5}

19298 [Cluster 1755]GO:0035556+P biological\_process [name] intracellular signal transduction [def] "The process in which a signal is passed on to downstream components within the cell, which become activated themselves to further propagate the signal and finally trigger a change in the function or state of the cell." [GOC

19299 Pathogen[ Q2Q067] interacts with 31 human partners: {P31749;O60239;P39687;Q8NI35;P62258;Q96DX5;O43734;Q8WXF8;O00273;Q92870;Q9Y2B4;Q5TB30;O14508;Q9UPX8;Q8WWW0;O14641;O15105;O95644;Q9Y2V2;Q92529;Q5TCQ9;Q15796;Q99619;Q9NS23;Q96018;P63000;O14512;Q96A44;P23297;Q13501;O76075}

19300 Pathogen[ P0C214] interacts with 32 human partners: {Q8WV28;O60239;P63000;Q8WXF8;Q8WWW0;Q9UPX8;Q8NI35;Q9NS23;Q96A44;Q5TB30;Q5TCQ9;Q9Y2V2;Q96018;Q92529;Q13501;O00273;Q96DX5;O43734;O14641;O15105;Q9H0E2;Q15796;Q99619;O14508;O95644;O14512;O15524;P39687;P23297;O76075;Q92870;P31749}

19301 Pathogen[ P03346] interacts with 57 human partners: {O60239;O15524;Q9H765;Q96NS5;Q9Y2V2;Q96A44;P23297;O43734;Q8WXF8;Q5TCQ9;O75159;Q8IWN7;P62258;Q96FS4;Q9Y6D5;Q8WXX3;Q15796;Q12802;Q5TB30;Q8WV22;Q9NRJ4;Q6XZF7;O15105;Q9NRF2;O95644;Q9H0E2;O14508;Q93045;Q92870;Q96DX5;Q8NI35;O14641;P31749;Q13938;Q9Y6I7;P46109;Q99619;Q96018;P39687;Q9Y5R6;Q8WWW0;O76075;P14317;Q8WV28;Q9H8V3;O14512;Q86T24;Q96BD6;Q92529;Q9Y2B4;Q8IWN7;Q9UPX8;Q9NS23;P63000;O00273;Q8TB45;Q13501}

19302 Pathogen[ Q85601] interacts with 31 human partners: {O60239;Q9UPX8;P31749;Q96A44;Q8WWW0;P39687;P63000;Q5TB30;Q9NS23;Q96DX5;O76075;P23297;O95644;O14508;Q8NI35;O14641;P62258;Q9Y2V2;Q92529;Q8WXF8;O00273;Q96018;Q5TCQ9;P14317;Q92870;O15105;O14512;Q8WV22;Q15796;Q99619;Q13501}

19303 Pathogen[ P14079] interacts with 55 human partners: {P59894;Q9Y4G2;O76075;Q6XZF7;Q9NS23;Q9NUJ7;O14641;P46109;Q9Y6D5;O95644;Q8WJ9;Q8IWN7;P10911;Q12802;Q6ZRR9;P56715;Q93045;O60239;O96018;Q8WV28;Q8NI35;Q9NZ72;Q9H8V3;Q5TB30;Q96DX5;P23297;P62258;Q13501;Q96A44;Q8IWN7;O14508;O14512;Q8TB45;A8MYV0;O43687;O43561;Q8WXF8;Q9Y2B4;Q9H0E2;Q92529;O15105;Q9Y239;Q8WWW0;Q9NZJ9;O43734;Q9Y2V2;Q99619;P39687;Q9BR09;O00273;Q92870;Q9UPX8;Q8WXI4;Q9GZY6;H3BQB6}

19304 Pathogen[ P03383] interacts with 21 human partners: {O96018;P23297;P31749;O43734;O95644;P63000;Q96DX5;Q92870;O15105;P39687;O00273;Q96A44;O14641;Q5TCQ9;Q13501;Q8WXF8;Q15796;O14512;Q9Y2V2;P62258;Q99619}

19305 Pathogen[ P03410] interacts with 58 human partners: {P62258;Q5TB30;Q96018;Q8WXF8;Q92529;Q8WJ9;Q9Y239;P63000;Q9Y2B4;Q9BR09;Q96DX5;O43561;Q6ZRR9;O76075;Q5TCQ9;Q8IWN7;Q8WV28;O00273;Q9NS23;Q13501;P39687;P31749;Q9Y2V2;O60239;Q8NI35;H3BQB6;Q8WXI4;Q9NZJ9;O95644;Q9GZY6;Q99619;Q8WXX3;O14508;O43734;Q96A44;Q6XZF7;Q9H0E2;Q9Y6D5;Q8WWW0;O15105;P59894;A8MYV0;P23297;Q9NZ72;Q8TB45;Q9UPX8;O43687;O14512;Q9H8V3;Q15283;Q8IWN7;Q96NS5;Q15796;P56715;P46109;Q93045;O14641;Q92870}

19306 Pathogen[ P14075] interacts with 24 human partners: {O60239;O00273;Q8IWN7;Q96018;Q99619;Q92870;Q9Y2V2;P39687;Q5TCQ9;O43734;Q15796;Q9Y2B4;Q96A44;Q96DX5;P31749;O14641;Q8WXF8;O15105;P63000;O14512;O95644;Q13501;P23297;P62258}

19307 Pathogen[ P0C206] interacts with 48 human partners: {Q9H765;Q13501;Q8WXI4;P39687;Q8WV22;P31749;P56715;Q96DX5;Q9Y5R6;P14317;O76075;Q9Y2V2;Q5TCQ9;Q99619;Q8IWN1;O43734;O15524;Q15796;H3BQB6;O15105;Q9H0E2;O96018;Q93045;P63000;P62258;Q8IWN7;Q9Y6D5;Q8WXF8;O60239;O14508;Q9NZ72;Q8WWW0;Q8NI35;Q9UPX8;Q92870;Q9H8V3;Q9NRJ4;Q9BR09;Q5TB30;Q9Y2B4;Q6XZF7;O95644;Q92529;P23297;O14512;Q9NS23;Q96A44;O00273}

19308 Pathogen[ P03363] interacts with 53 human partners: {Q96A44;O75159;P62258;O00273;Q8WXX3;P56715;Q96NS5;Q8TB45;Q9BR09;O15524;Q9Y2V2;Q9H765;Q9UPX8;Q8WV28;P46109;O15105;Q9Y5R6;P63000;Q9Y6I7;Q93045;P39687;Q92529;P10911;Q6XZF7;P31749;Q5TCQ9;O76075;Q92870;Q15796;Q99619;Q9H0E2;Q9NS23;P14317;Q8NI35;O60239;Q5TB30;Q8WWW0;O95644;Q96DX5;Q8IWN7;Q8WV22;O14508;Q9NRJ4;O14512;O14641;O43734;Q9Y2B4;Q8WXF8;O96018;Q9NWX5;Q96FS4;P23297;Q96BD6}

19309 [Cluster 1756]GO:2000323+P biological\_process [name] negative regulation of glucocorticoid receptor signaling pathway [def] "Any process that stops, prevents or reduces the frequency, rate or extent of glucocorticoid receptor signaling pathway." [GOC]

19310 Pathogen[ Q2Q067] interacts with 1 human partners: {P35232}

19311 Pathogen[ P0C214] interacts with 1 human partners: {P35232}

19312 Pathogen[ P03346] interacts with 1 human partners: {P35232}

19313 Pathogen[ Q85601] interacts with 1 human partners: {P35232}

19314 Pathogen[ P14079] interacts with 1 human partners: {P35232}

19315 Pathogen[ P03383] interacts with 1 human partners: {P35232}

19316 Pathogen[ P03410] interacts with 1 human partners: {P35232}

19317 Pathogen[ P14075] interacts with 1 human partners: {P35232}

19318 Pathogen[ P0C206] interacts with 1 human partners: {P35232}

19319 Pathogen[ P03363] interacts with 1 human partners: {P35232}

19320 [Cluster 1757]GO:0051220+P biological\_process [name] cytoplasmic sequestering of protein [def] "The selective interaction of a protein with specific molecules in the cytoplasm, thereby inhibiting its transport into other areas of the cell." [GOC]

19321 Pathogen[ Q2Q067] interacts with 1 human partners: {P31946}

19322 Pathogen[ P0C214] interacts with 1 human partners: {P31946}

19323 Pathogen[ P03346] interacts with 1 human partners: {P31946}

19324 Pathogen[ Q85601] interacts with 1 human partners: {P31946}

19325 Pathogen[ P14079] interacts with 1 human partners: {P31946}

19326 Pathogen[ P03383] interacts with 1 human partners: {P31946}

19327 Pathogen[ P03410] interacts with 1 human partners: {P31946}

19328 Pathogen[ P14075] interacts with 1 human partners: {P31946}

19329 Pathogen[ P0C206] interacts with 1 human partners: {P31946}

19330 Pathogen[ P03363] interacts with 1 human partners: {P31946}

19331 [Cluster 1758]GO:0031054+P biological\_process [name] pre-miRNA processing [def] "Any process involved in the conversion of a pre-microRNA transcript into a mature microRNA molecule." [GOC]

19332 Pathogen[ Q2Q067] interacts with 6 human partners: {Q9NRR4;Q15633;Q5TAX3;Q9H9Z2;Q9UKV8;Q6ZN17}

19333 Pathogen[ P0C214] interacts with 6 human partners: {Q6ZN17;Q15633;Q9NRR4;Q9H9Z2;Q9UKV8;Q5TAX3}

19334 Pathogen[ P03346] interacts with 6 human partners: {Q15633;Q5TAX3;Q9UKV8;Q9NRR4;Q9H9Z2;Q6ZN17}

19335 Pathogen[ Q85601] interacts with 6 human partners: {Q6ZN17;Q9NRR4;Q5TAX3;Q9UKV8;Q15633;Q9H9Z2}

19336 Pathogen[ P14079] interacts with 5 human partners: {Q9UKV8;Q9H9Z2;Q5TAX3;Q9NRR4;Q6ZN17}

19337 Pathogen[ P03383] interacts with 6 human partners: {Q9NRR4;Q9H9Z2;Q6ZN17;Q5TAX3;Q9UKV8;Q15633}

19338 Pathogen[ P03410] interacts with 6 human partners: {Q9UKV8;Q15633;Q5TAX3;Q9NRR4;Q9H9Z2;Q6ZN17}

19339 Pathogen[ P14075] interacts with 6 human partners: {Q9H9Z2;Q5TAX3;Q6ZN17;Q9NRR4;Q9UKV8;Q15633}

19340 Pathogen[ P0C206] interacts with 6 human partners: {Q9UKV8;Q6ZN17;Q9H9Z2;Q9NRR4;Q5TAX3;Q15633}

19341 Pathogen[ P03363] interacts with 6 human partners: {Q6ZN17;Q9UKV8;Q15633;Q9H9Z2;Q9NRR4;Q5TAX3}

19342 [Cluster 1759]GO:0071044+P biological\_process [name] histone mRNA catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of histone messenger RNA (mRNA)." [GOC]

19343 Pathogen[ Q2Q067] interacts with 8 human partners: {Q92900;Q8IU60;Q8IZH2;Q8NDF8;Q9NPD3;Q5TAX3;O15116;Q9NVV4}

19344 Pathogen[ P0C214] interacts with 9 human partners: {O15116;Q8NDF8;Q92900;Q8IZH2;Q9NPD3;Q8IV48;Q8IU60;Q9NVV4;Q5TAX3}

19345 Pathogen[ P03346] interacts with 8 human partners: {Q8IZH2;Q8IU60;Q5TAX3;Q9NVV4;O15116;Q8NDF8;Q92900;Q9NPD3}

19346 Pathogen[ Q85601] interacts with 8 human partners: {Q9NPD3;O15116;Q8IZH2;Q5TAX3;Q8NDF8;Q9NVV4;Q92900;Q8IU60}

19347 Pathogen[ P14079] interacts with 8 human partners: {Q8IV48;Q8IU60;Q9NPD3;O15116;Q8IZH2;Q5TAX3;Q9NVV4;Q92900}

19348 Pathogen[ P03383] interacts with 7 human

19349 partners:{Q9NVV4;Q8IU60;Q8NDF8;Q5TAX3;Q9NPD3;O15116;Q92900}  
Pathogen[ P03410] interacts with 8 human

19350 partners:{Q8IU60;Q8IV48;Q92900;Q5TAX3;Q9NVV4;Q8IZH2;Q9NPD3;O15116}  
Pathogen[ P14075] interacts with 7 human

19351 partners:{Q92900;Q8NDF8;Q9NPD3;Q9NVV4;Q5TAX3;Q8IU60;O15116}  
Pathogen[ P0C206] interacts with 9 human

19352 partners:{Q8IZH2;Q9NPD3;Q8IV48;Q8NDF8;Q9NVV4;Q5TAX3;Q92900;Q8IU60;O15116}  
Pathogen[ P03363] interacts with 8 human

19353 partners:{Q9NVV4;Q92900;Q9NPD3;O15116;Q8NDF8;Q5TAX3;Q8IZH2;Q8IU60}  
[Cluster 1760]GO:0034504+P biological\_process [name] protein localization to nucleus  
[def] "A process in which a protein is transported to, or maintained in, a location  
within the nucleus." [GOC

19354 Pathogen[ Q2Q067] interacts with 10 human  
partners:{P02545;Q9NS56;Q8N9N5;Q9Y3Y4;Q8N9A8;P27797;O14980;P62913;O95476;Q00987}

19355 Pathogen[ P0C214] interacts with 10 human  
partners:{Q8N9A8;P62913;Q00987;Q9NS56;Q8N9N5;O14980;O95476;P27797;P02545;Q9Y3Y4}

19356 Pathogen[ P03346] interacts with 12 human  
partners:{P62913;Q8WXH0;Q9Y3Y4;P02545;Q00987;Q9NS56;O14980;Q8N9A8;Q15475;Q8N9N5;P277  
97;O95476}

19357 Pathogen[ Q85601] interacts with 10 human  
partners:{P62913;P02545;Q9NS56;P27797;Q8N9A8;Q8N9N5;O14980;O95476;Q00987;Q9Y3Y4}

19358 Pathogen[ P14079] interacts with 11 human  
partners:{Q8N9A8;Q00987;Q8N9N5;Q5JTV8;Q8WXH0;Q9Y3Y4;Q9NS56;O95476;P62913;P02545;P283  
60}

19359 Pathogen[ P03383] interacts with 7 human  
partners:{P02545;P62913;Q8N9N5;O14980;Q8N9A8;Q9Y3Y4;P27797}

19360 Pathogen[ P03410] interacts with 11 human  
partners:{P62913;Q8N9N5;P02545;O95476;Q9Y3Y4;Q00987;Q5JTV8;Q8N9A8;Q8WXH0;O14980;P277  
97}

19361 Pathogen[ P14075] interacts with 7 human  
partners:{P62913;Q8N9N5;Q8N9A8;Q9Y3Y4;O14980;P02545;P27797}

19362 Pathogen[ P0C206] interacts with 10 human  
partners:{Q9NS56;Q8N9N5;P27797;Q9Y3Y4;O95476;P62913;P02545;Q8WXH0;Q00987;Q8N9A8}

19363 Pathogen[ P03363] interacts with 8 human  
partners:{P62913;P02545;Q8N9A8;O14980;Q8N9N5;Q9Y3Y4;O95476;P27797}

19364 [Cluster 1761]GO:0042118+P biological\_process [name] endothelial cell activation  
[def] "The change in morphology and behavior of an endothelial cell resulting from  
exposure to a cytokine, chemokine, cellular ligand, or soluble factor." [GOC

19365 Pathogen[ Q2Q067] interacts with 2 human partners:{O14744;P31269}

19366 Pathogen[ P0C214] interacts with 1 human partners:{P31269}

19367 Pathogen[ P03346] interacts with 2 human partners:{O14744;P31269}

19368 Pathogen[ Q85601] interacts with 2 human partners:{O14744;P31269}

19369 Pathogen[ P14079] interacts with 2 human partners:{O14744;P31269}

19370 Pathogen[ P03383] interacts with 2 human partners:{O14744;P31269}

19371 Pathogen[ P03410] interacts with 2 human partners:{P31269;O14744}

19372 Pathogen[ P14075] interacts with 2 human partners:{P31269;O14744}

19373 Pathogen[ P0C206] interacts with 2 human partners:{P31269;O14744}

19374 Pathogen[ P03363] interacts with 2 human partners:{O14744;P31269}

19375 [Cluster 1762]GO:0010792+P biological\_process [name] DNA double-strand break  
processing involved in repair via single-strand annealing [def] "The 5' to 3'  
exonucleolytic resection of the DNA at the site of the break to form a 3' single-strand  
DNA overhang that results in the repair of a double strand break via single-strand  
annealing." [GOC

19376 Pathogen[ Q2Q067] interacts with 3 human partners:{Q99708;Q9BQ83;Q8IY92}

19377 Pathogen[ P0C214] interacts with 3 human partners:{Q9BQ83;Q99708;Q8IY92}

19378 Pathogen[ P03346] interacts with 3 human partners:{Q99708;Q9BQ83;Q8IY92}

19379 Pathogen[ Q85601] interacts with 3 human partners:{Q99708;Q8IY92;Q9BQ83}

19380 Pathogen[ P14079] interacts with 3 human partners:{Q99708;Q9BQ83;Q8IY92}

19381 Pathogen[ P03383] interacts with 3 human partners:{Q8IY92;Q99708;Q9BQ83}

19382 Pathogen[ P03410] interacts with 3 human partners:{Q99708;Q9BQ83;Q8IY92}

19383 Pathogen[ P14075] interacts with 3 human partners:{Q9BQ83;Q99708;Q8IY92}

19384 Pathogen[ P0C206] interacts with 3 human partners:{Q99708;Q9BQ83;Q8IY92}

19385 Pathogen[ P03363] interacts with 3 human partners:{Q99708;Q9BQ83;Q8IY92}

19386 [Cluster 1763]GO:2000111+P biological\_process [name] positive regulation of macrophage  
apoptosis [def] "Any process that activates or increases the frequency, rate or extent  
of macrophage apoptosis." [GOC

19387 Pathogen[ Q2Q067] interacts with 1 human partners:{P42771}

19388 Pathogen[ P0C214] interacts with 1 human partners:{P42771}

19389 Pathogen[ P03346] interacts with 1 human partners:{P42771}

19390 Pathogen[ Q85601] interacts with 1 human partners:{P42771}

19391 Pathogen[ P14079] interacts with 2 human partners:{Q06413;P42771}

19392 Pathogen[ P03383] interacts with 1 human partners:{P42771}

19393 Pathogen[ P03410] interacts with 1 human partners:{P42771}

19394 Pathogen[ P14075] interacts with 1 human partners:{P42771}

19395 Pathogen[ P0C206] interacts with 1 human partners:{P42771}

19396 Pathogen[ P03363] interacts with 1 human partners:{P42771}



19397 [Cluster 1764]GO:0042147+P biological\_process [name] retrograde transport, endosome to Golgi [def] "The directed movement of membrane-bounded vesicles from endosomes back to the trans-Golgi network where they are recycled for further rounds of transport." [GOC

19398 Pathogen[ Q2Q067] interacts with 9 human partners:{Q8IUD2;O43752;O14662;Q6ICB4;Q8IWIJ2;Q9Y4E1;O75436;Q96QK1;Q9P1Q0}

19399 Pathogen[ P0C214] interacts with 10 human partners:{Q6ICB4;Q8IWIJ2;Q9Y4E1;Q96QK1;Q641Q2;O43752;O75436;Q9P1Q0;Q5SNT6;Q8IUD2}

19400 Pathogen[ P03346] interacts with 14 human partners:{O43752;Q96QK1;Q8IUD2;Q13190;Q9UID3;A8K0Z3;Q8N4B1;Q9UNH7;O75436;Q9P1Q0;Q9Y4E1;Q6ICB4;O14662;Q8IWIJ2}

19401 Pathogen[ Q85601] interacts with 10 human partners:{Q96QK1;Q8IWIJ2;O43752;Q6ICB4;O75436;Q9P1Q0;Q8IUD2;Q9UNH7;O14662;Q9UID3}

19402 Pathogen[ P14079] interacts with 18 human partners:{Q96QK1;Q9UNH7;Q9Y4E1;Q9UID3;Q6VEQ5;Q9P1Q0;Q8IUD2;Q9NQA3;Q641Q2;Q8N4B1;Q8IWIJ2;O14662;Q5SRD0;Q6ICB4;A8K0Z3;O43752;O75436;Q5SNT6}

19403 Pathogen[ P03383] interacts with 7 human partners:{Q8IWIJ2;Q9Y4E1;O75436;Q9P1Q0;Q96QK1;O43752;Q8IUD2}

19404 Pathogen[ P03410] interacts with 20 human partners:{Q5SNT6;Q13190;Q8N4B1;O14662;Q96QK1;O95249;Q9UNH7;Q8IUD2;Q641Q2;Q9Y4E1;O75436;Q6VEQ5;Q6ICB4;Q5SRD0;Q9P1Q0;O43752;Q9NQA3;Q9UID3;Q8IWIJ2;A8K0Z3}

19405 Pathogen[ P14075] interacts with 8 human partners:{O43752;Q8IUD2;Q8IWIJ2;O75436;Q9P1Q0;Q641Q2;Q9Y4E1;Q96QK1}

19406 Pathogen[ P0C206] interacts with 15 human partners:{O14662;Q641Q2;Q9UNH7;O43752;Q6ICB4;Q8IUD2;Q9Y4E1;Q9P1Q0;Q6VEQ5;Q5SNT6;Q9UID3;O75436;Q8N4B1;Q96QK1;Q8IWIJ2}

19407 Pathogen[ P03363] interacts with 12 human partners:{Q9UID3;Q9UNH7;Q6ICB4;Q96QK1;O75436;Q8N4B1;Q9P1Q0;Q9Y4E1;Q8IWIJ2;O14662;O43752;Q8IUD2}

19408 [Cluster 1765]GO:0070934+P biological\_process [name] CRD-mediated mRNA stabilization [def] "An mRNA stabilization process in which one or more RNA-binding proteins associate with a sequence in the open reading frame called the coding region instability determinant (CRD)." [GOC

19409 Pathogen[ Q2Q067] interacts with 4 human partners:{P67809;O60506;Q08211;Q00839}

19410 Pathogen[ P0C214] interacts with 5 human partners:{P67809;Q9NZI8;O60506;Q08211;Q00839}

19411 Pathogen[ P03346] interacts with 5 human partners:{O60506;Q9NZI8;Q00839;Q08211;P67809}

19412 Pathogen[ Q85601] interacts with 4 human partners:{O60506;Q08211;P67809;Q00839}

19413 Pathogen[ P14079] interacts with 4 human partners:{P67809;Q08211;Q00839;O60506}

19414 Pathogen[ P03383] interacts with 2 human partners:{P67809;Q00839}

19415 Pathogen[ P03410] interacts with 4 human partners:{Q00839;P67809;O60506;Q08211}

19416 Pathogen[ P14075] interacts with 2 human partners:{Q00839;P67809}

19417 Pathogen[ P0C206] interacts with 4 human partners:{P67809;Q08211;O60506;Q00839}

19418 Pathogen[ P03363] interacts with 5 human partners:{Q9NZI8;O60506;Q00839;Q08211;P67809}

19419 [Cluster 1766]GO:0048261+P biological\_process [name] negative regulation of receptor-mediated endocytosis [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of receptor mediated endocytosis, the uptake of external materials by cells, utilizing receptors to ensure specificity of transport." [GOC

19420 Pathogen[ Q2Q067] interacts with 1 human partners:{P63000}

19421 Pathogen[ P0C214] interacts with 1 human partners:{P63000}

19422 Pathogen[ P03346] interacts with 2 human partners:{Q13492;P63000}

19423 Pathogen[ Q85601] interacts with 1 human partners:{P63000}

19424 Pathogen[ P14079] interacts with 1 human partners:{Q13492}

19425 Pathogen[ P03383] interacts with 1 human partners:{P63000}

19426 Pathogen[ P03410] interacts with 2 human partners:{P63000;Q13492}

19427 Pathogen[ P14075] interacts with 1 human partners:{P63000}

19428 Pathogen[ P0C206] interacts with 1 human partners:{P63000}

19429 Pathogen[ P03363] interacts with 1 human partners:{P63000}

19430 [Cluster 1767]GO:2000772+P biological\_process [name] regulation of cellular senescence [def] "Any process that modulates the frequency, rate or extent of cellular senescence." [GOC

19431 Pathogen[ Q2Q067] interacts with 2 human partners:{Q8TCS8;Q9H160}

19432 Pathogen[ P0C214] interacts with 2 human partners:{Q9H160;Q8TCS8}

19433 Pathogen[ P03346] interacts with 2 human partners:{Q8TCS8;Q9H160}

19434 Pathogen[ Q85601] interacts with 2 human partners:{Q8TCS8;Q9H160}

19435 Pathogen[ P14079] interacts with 2 human partners:{Q8TCS8;Q9H160}

19436 Pathogen[ P03383] interacts with 2 human partners:{Q8TCS8;Q9H160}

19437 Pathogen[ P03410] interacts with 2 human partners:{Q8TCS8;Q9H160}

19438 Pathogen[ P14075] interacts with 2 human partners:{Q8TCS8;Q9H160}

19439 Pathogen[ P0C206] interacts with 2 human partners:{Q8TCS8;Q9H160}

19440 Pathogen[ P03363] interacts with 1 human partners:{Q9H160}

19441 [Cluster 1768]GO:0030100+P biological\_process [name] regulation of endocytosis [def] "Any process that modulates the frequency, rate or extent of endocytosis." [GOC

19442 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8WXE9}

19443 Pathogen[ P0C214] interacts with 3 human partners:{Q9Y6Q2;Q8WXE9;P53680}

19444 Pathogen[ P03346] interacts with 7 human  
partners: {Q15036;P53680;Q96T51;Q7Z3T8;Q9Y6Q2;Q8WXE9;Q13492}

19445 Pathogen[ Q85601] interacts with 5 human  
partners: {Q15036;Q96T51;Q8WXE9;Q9Y6Q2;P53680}

19446 Pathogen[ P14079] interacts with 7 human  
partners: {Q13492;Q15036;Q96T51;Q7Z3T8;Q8WXE9;P53680;Q9Y6Q2}

19447 Pathogen[ P03383] interacts with 1 human partners: {Q8WXE9}

19448 Pathogen[ P03410] interacts with 7 human  
partners: {P53680;Q8WXE9;Q13492;Q15036;Q96T51;Q7Z3T8;Q9Y6Q2}

19449 Pathogen[ P14075] interacts with 1 human partners: {Q8WXE9}

19450 Pathogen[ P0C206] interacts with 6 human  
partners: {P53680;Q9Y6Q2;Q8WXE9;Q96T51;Q15036;Q7Z3T8}

19451 Pathogen[ P03363] interacts with 2 human partners: {Q8WXE9;Q96T51}

19452 [Cluster 1769]GO:0010804+P biological\_process [name] negative regulation of tumor  
necrosis factor-mediated signaling pathway [def] "Any process that decreases the rate  
or extent of the tumor necrosis factor-mediated signaling pathway. The tumor necrosis  
factor-mediated signaling pathway is the series of molecular signals generated as a  
consequence of tumor necrosis factor binding to a cell surface receptor." [GOC

19453 Pathogen[ Q2Q067] interacts with 1 human partners: {Q8TD23}

19454 Pathogen[ P0C214] interacts with 1 human partners: {Q8TD23}

19455 Pathogen[ P03346] interacts with 1 human partners: {Q8TD23}

19456 Pathogen[ Q85601] interacts with 1 human partners: {Q8TD23}

19457 Pathogen[ P14079] interacts with 1 human partners: {Q8TD23}

19458 Pathogen[ P03383] interacts with 1 human partners: {Q8TD23}

19459 Pathogen[ P03410] interacts with 1 human partners: {Q8TD23}

19460 Pathogen[ P14075] interacts with 1 human partners: {Q8TD23}

19461 Pathogen[ P0C206] interacts with 1 human partners: {Q8TD23}

19462 Pathogen[ P03363] interacts with 1 human partners: {Q8TD23}

19463 [Cluster 1770]GO:0006952+P biological\_process [name] defense response [def]  
"Reactions, triggered in response to the presence of a foreign body or the occurrence of  
an injury, which result in restriction of damage to the organism attacked or  
prevention/recovery from the infection caused by the attack." [GOC

19464 Pathogen[ Q2Q067] interacts with 8 human  
partners: {Q9UDY8;Q04206;Q15025;Q13342;Q15744;P42768;Q9C000;Q15773}

19465 Pathogen[ P0C214] interacts with 8 human  
partners: {Q9UDY8;Q04206;Q15025;Q15773;Q14727;Q13342;P42768;Q9C000}

19466 Pathogen[ P03346] interacts with 10 human  
partners: {Q15773;P42768;Q9UDY8;Q04206;Q13342;Q15025;Q15744;Q6MZN7;Q14727;Q9C000}

19467 Pathogen[ Q85601] interacts with 7 human  
partners: {Q15773;Q9UDY8;Q04206;P42768;Q15025;Q15744;Q13342}

19468 Pathogen[ P14079] interacts with 31 human  
partners: {Q30KQ8;Q30KQ9;P49069;Q14761;Q30KR1;A8MXU0;Q30KQ7;Q9C000;Q15025;P60022;Q157  
44;Q6MZN7;Q8N104;Q15263;A6NDD2;Q15773;Q9H1M4;Q30KQ1;Q7Z7B8;Q8IZN7;Q4QY38;Q7Z7B7;Q9Y2  
39;Q30KQ6;Q8NET1;Q8N688;P59861;Q13342;P42768;Q30KP9;P81534}

19469 Pathogen[ P03383] interacts with 5 human  
partners: {Q15773;Q13342;Q15025;P42768;Q04206}

19470 Pathogen[ P03410] interacts with 31 human  
partners: {Q30KP8;Q04206;P49069;Q30KR1;Q7Z7B7;Q30KP9;Q4QY38;P59861;Q9Y239;Q8N688;Q157  
73;Q7Z7B8;Q30KQ1;P42768;Q9C000;P60022;Q15025;Q30KQ6;P33241;Q8IZN7;Q13342;Q8N104;Q5J5  
C9;Q30KQ9;Q15744;Q14761;Q30KQ7;Q30KQ8;P81534;Q15263;Q6MZN7}

19471 Pathogen[ P14075] interacts with 6 human  
partners: {Q04206;P42768;Q15025;Q15773;Q13342;Q6MZN7}

19472 Pathogen[ P0C206] interacts with 10 human  
partners: {Q9C000;Q9UDY8;Q15744;Q6MZN7;Q13342;Q15773;Q15025;Q7Z7B7;Q04206;P42768}

19473 Pathogen[ P03363] interacts with 7 human  
partners: {Q04206;Q9C000;Q15744;P42768;Q13342;Q15773;Q15025}

19474 [Cluster 1771]GO:0034453+P biological\_process [name] microtubule anchoring [def]  
"Any process in which a microtubule is maintained in a specific location in a cell."  
[GOC

19475 Pathogen[ Q2Q067] interacts with 9 human  
partners: {Q95684;Q7Z460;Q9P1Y5;Q86XR8;Q75381;Q8IWJ2;Q96NB1;Q75122;Q15154}

19476 Pathogen[ P0C214] interacts with 10 human  
partners: {Q8IWJ2;Q15154;Q95684;Q9P1Y5;Q75381;Q75122;Q8IYX8;Q86XR8;Q7Z460;Q96NB1}

19477 Pathogen[ P03346] interacts with 10 human  
partners: {Q86XR8;Q95684;Q15154;Q9P1Y5;Q8IYX8;Q75381;Q75122;Q7Z460;Q8IWJ2;Q96NB1}

19478 Pathogen[ Q85601] interacts with 10 human  
partners: {Q8IWJ2;Q15154;Q95684;Q9P1Y5;Q75122;Q86XR8;Q7Z460;Q75381;Q96NB1;Q8IYX8}

19479 Pathogen[ P14079] interacts with 11 human  
partners: {Q7Z460;Q95684;Q14118;Q8IWJ2;Q9P1Y5;Q75381;Q15154;Q86XR8;Q75122;Q8IYX8;Q96N  
B1}

19480 Pathogen[ P03383] interacts with 8 human  
partners: {Q8IWJ2;Q86XR8;Q7Z460;Q95684;Q96NB1;Q9P1Y5;Q75381;Q15154}

19481 Pathogen[ P03410] interacts with 10 human  
partners: {Q95684;Q7Z460;Q96NB1;Q15154;Q9P1Y5;Q75381;Q8IYX8;Q14118;Q75122;Q8IWJ2}

19482 Pathogen[ P14075] interacts with 8 human  
partners: {Q95684;Q7Z460;Q75381;Q86XR8;Q96NB1;Q8IWJ2;Q15154;Q9P1Y5}

19483 Pathogen[ P0C206] interacts with 10 human partners:{Q86XR8;O95684;O75381;Q9PLY5;O75122;Q8IYX8;Q7Z460;Q15154;Q96NB1;Q8IYWJ2}

19484 Pathogen[ P03363] interacts with 9 human partners:{O95684;Q9PLY5;O75381;Q7Z460;Q96NB1;Q8IYWJ2;Q8IYX8;Q86XR8;Q15154}

19485 [Cluster 1772]GO:0050435+P biological\_process [name] beta-amyloid metabolic process [def] "The chemical reactions and pathways involving beta-amyloid, a glycoprotein associated with Alzheimer's disease, and its precursor, amyloid precursor protein (APP)." [GOC

19486 Pathogen[ Q2Q067] interacts with 1 human partners:{Q14457}

19487 Pathogen[ P0C214] interacts with 1 human partners:{Q14457}

19488 Pathogen[ P03346] interacts with 1 human partners:{Q14457}

19489 Pathogen[ Q85601] interacts with 1 human partners:{Q14457}

19490 Pathogen[ P14079] interacts with 2 human partners:{Q92542;Q14457}

19491 Pathogen[ P03383] interacts with 1 human partners:{Q14457}

19492 Pathogen[ P03410] interacts with 2 human partners:{Q14457;Q92542}

19493 Pathogen[ P14075] interacts with 1 human partners:{Q14457}

19494 Pathogen[ P0C206] interacts with 2 human partners:{Q14457;Q92542}

19495 Pathogen[ P03363] interacts with 1 human partners:{Q14457}

19496 [Cluster 1773]GO:0009408+P biological\_process [name] response to heat [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a heat stimulus, a temperature stimulus above the optimal temperature for that organism." [GOC

19497 Pathogen[ Q2Q067] interacts with 16 human partners:{P31749;Q00613;P49770;Q9UDY4;Q9UI10;P55212;P10914;Q14232;Q9NR50;P29474;O75475;Q53G26;Q13144;P31689;Q9UBY9;Q96EY1}

19498 Pathogen[ P0C214] interacts with 18 human partners:{P29474;Q9UDY4;Q9UI10;Q00613;P49770;P55212;P34932;Q9UBY9;P10914;Q14232;Q8WW22;Q9NR50;Q13144;Q53G26;O75475;O60884;Q96EY1;P31749}

19499 Pathogen[ P03346] interacts with 17 human partners:{P29474;Q00613;O75475;P55212;Q14232;Q9UBY9;P31749;P10914;P49770;P31689;Q53G26;P34932;Q9UDY4;Q13144;Q9NR50;Q96EY1;Q9UI10}

19500 Pathogen[ Q85601] interacts with 19 human partners:{P31749;P31689;Q53G26;Q8WW22;Q9NR50;O60884;Q13144;Q00613;P49770;P10914;Q9UBY9;Q9UDY4;P29474;P34932;P55212;O75475;Q14232;Q96EY1;Q9UI10}

19501 Pathogen[ P14079] interacts with 14 human partners:{Q9UI10;O75475;Q9UDY4;P55212;Q13144;Q9NR50;Q00613;P31689;Q14232;Q8WW22;Q9UBY9;O60884;Q96EY1;P10914}

19502 Pathogen[ P03383] interacts with 16 human partners:{P10914;P29474;P55212;P31749;Q9UI10;P31689;Q13144;Q9NR50;Q9UDY4;P49770;Q00613;O75475;Q14232;Q9UBY9;Q96EY1;Q53G26}

19503 Pathogen[ P03410] interacts with 18 human partners:{Q9UDY4;Q00613;Q9NR50;Q53G26;P31749;Q14232;P49770;P29474;P10914;O60884;P31689;O75475;Q8WW22;P55212;Q9UBY9;Q96EY1;Q9UI10;Q13144}

19504 Pathogen[ P14075] interacts with 16 human partners:{P29474;P31689;Q9UBY9;Q00613;O75475;P55212;Q53G26;Q9UI10;Q9UDY4;P31749;Q14232;P49770;Q9NR50;Q13144;P10914;Q96EY1}

19505 Pathogen[ P0C206] interacts with 19 human partners:{P10914;Q9UDY4;P31749;Q00613;Q14232;P34932;Q53G26;P55212;O60884;Q9NR50;O75475;Q13144;P49770;Q8WW22;Q9UI10;P29474;Q96EY1;P31689;Q9UBY9}

19506 Pathogen[ P03363] interacts with 15 human partners:{Q9UBY9;P29474;Q9UI10;Q9UDY4;O75475;Q53G26;P55212;Q9NR50;P34932;P31749;P10914;P49770;Q00613;Q13144;Q96EY1}

19507 [Cluster 1774]GO:0035880+P biological\_process [name] embryonic nail plate morphogenesis [def] "The process, occurring in the embryo, by which the anatomical structures of a nail plate are generated and organized. The nail plate is the hard and translucent portion of the nail, composed of keratin, and serves to protect the tips of digits." [GOC

19508 Pathogen[ Q2Q067] interacts with 1 human partners:{P35548}

19509 Pathogen[ P0C214] interacts with 1 human partners:{P35548}

19510 Pathogen[ P03346] interacts with 1 human partners:{P35548}

19511 Pathogen[ Q85601] interacts with 1 human partners:{P35548}

19512 Pathogen[ P14079] interacts with 1 human partners:{P28360}

19513 Pathogen[ P03383] interacts with 1 human partners:{P35548}

19514 Pathogen[ P03410] interacts with 1 human partners:{P35548}

19515 Pathogen[ P14075] interacts with 1 human partners:{P35548}

19516 Pathogen[ P0C206] interacts with 1 human partners:{P35548}

19517 Pathogen[ P03363] interacts with 1 human partners:{P35548}

19518 [Cluster 1775]GO:0033559+P biological\_process [name] unsaturated fatty acid metabolic process [def] "The chemical reactions and pathways involving an unsaturated fatty acid, any fatty acid containing one or more double bonds between carbon atoms." [GOC

19519 Pathogen[ Q2Q067] interacts with 1 human partners:{O14734}

19520 Pathogen[ P0C214] interacts with 3 human partners:{Q9NXB9;Q9NYP7;O14734}

19521 Pathogen[ P03346] interacts with 1 human partners:{O14734}

19522 Pathogen[ Q85601] interacts with 1 human partners:{O14734}

19523 Pathogen[ P14079] interacts with 1 human partners:{O14734}

19524 Pathogen[ P03383] interacts with 1 human partners:{O14734}

19525 Pathogen[ P03410] interacts with 1 human partners:{014734}

19526 Pathogen[ P14075] interacts with 1 human partners:{014734}

19527 Pathogen[ P0C206] interacts with 1 human partners:{014734}

19528 Pathogen[ P03363] interacts with 1 human partners:{014734}

19529 [Cluster 1776]GO:0006368+P biological\_process [name] transcription elongation from RNA polymerase II promoter [def] "The extension of an RNA molecule after transcription initiation and promoter clearance at an RNA polymerase II promoter by the addition of ribonucleotides catalyzed by RNA polymerase II." [GOC

19530 Pathogen[ Q2Q067] interacts with 61 human partners:{P52434;Q92750;Q9HB65;P20226;Q16594;O00267;Q9H9T3;Q13889;P19388;P52435;P32780;P18615;P30876;P19387;Q15542;P61218;Q92759;P52657;O60563;Q12962;Q95163;P29084;P62487;P55199;P51948;Q15370;Q15543;P49848;P50750;Q9Y5B0;Q15544;O00268;P50613;Q16514;Q6IA86;P13984;Q15369;P62875;O00472;P24928;P23193;Q16186;Q09161;Q8IXH7;Q9H3P2;P52298;P52655;P35269;P29083;O60583;P63272;P21675;P53803;Q14241;Q9Y5B9;Q13888;Q96EB1;P51946;Q8WX92;Q00403;Q08945}

19531 Pathogen[ P0C214] interacts with 60 human partners:{O00268;P51946;Q8WX92;Q09161;P30876;P52657;Q16186;P21675;P53803;P52655;P35269;P50750;O00267;P50613;P29084;P52435;Q92750;Q00403;Q12962;P61218;Q15370;Q6IA86;Q16594;Q15542;P18615;P52298;P62487;P51948;Q15369;P55199;O60583;P63272;Q15544;P49848;Q9Y5B9;Q16514;P62875;P13984;P20226;P32780;P24928;Q9H9T3;O60563;Q9Y5B0;Q13888;P52434;Q08945;Q8IXH7;O00472;Q9H3P2;Q9HB65;P19387;P23193;P19388;Q15543;Q96EB1;O95163;Q92759;P29083;Q14241}

19532 Pathogen[ P03346] interacts with 61 human partners:{Q15542;Q15370;Q09161;Q9HB65;P52434;Q8IXH7;O60563;Q13888;Q9H3P2;P53803;O95163;P61218;O00268;P29084;P63272;P52298;O00472;Q92750;Q08945;Q13889;P20226;Q9Y5B0;P62487;P19388;O60583;P13984;Q9H9T3;P52435;P49848;P51946;P52657;P50750;Q9Y5B9;P36954;Q16514;Q12962;O00267;Q8WX92;Q92759;P55199;P21675;Q6IA86;P30876;Q15369;P35269;P24928;P23193;Q16186;P29083;Q00403;P52655;Q96EB1;P51948;Q15544;P32780;P18615;P62875;P19387;Q14241;Q16594;Q15543}

19533 Pathogen[ Q85601] interacts with 62 human partners:{P51946;P52657;Q15542;P36954;Q15370;O60563;P50750;Q13888;Q9H9T3;Q14241;O60583;Q9H3P2;P53803;P61218;O00268;Q9Y5B9;P51948;P18615;Q16594;O00472;Q09161;Q8WX92;P62487;P19388;P29084;P13984;Q92759;P32780;Q9Y5B0;P52435;P49848;P35269;P29083;Q16514;Q96EB1;Q15369;Q00403;P50613;O00267;P23193;P55199;Q6IA86;Q8IXH7;Q08945;Q92750;P21675;Q12962;P19387;P63272;P52655;P24928;P52298;Q9HB65;P30876;P52434;Q15543;P19447;O95163;Q15544;Q16186;P62875;P20226}

19534 Pathogen[ P14079] interacts with 60 human partners:{Q9Y5B9;P62875;P55199;Q08945;Q14241;P19387;Q9Y5B0;P35269;P51946;Q16594;Q8IXH7;P62487;Q6IA86;P52434;P52298;O15514;P30876;P61218;Q9H3P2;O95163;Q16186;Q96EB1;Q13889;P53803;P18615;P29084;P50613;Q13888;P19388;Q00403;Q15543;Q9H9T3;Q12962;P49848;P52435;P63272;Q92750;Q15370;Q92759;O00472;P52657;Q8WX92;P32780;P23193;P13984;O60583;P24928;Q15369;Q9HB65;Q16514;O00267;P36954;Q15542;P19447;Q09161;P29083;P21675;O00268;P50750;P51948}

19535 Pathogen[ P03383] interacts with 60 human partners:{P53803;P55199;Q15369;P63272;O95163;Q9H3P2;P29084;Q15544;P35269;P51948;O00472;Q13888;P23193;P52655;Q15542;P52434;P61218;Q08945;O00267;Q00403;Q09161;Q9HB65;P20226;Q96EB1;P52657;P62487;Q16594;Q8IXH7;P19387;O60563;P50613;P13984;P51946;P24928;P49848;P50750;O00268;Q16514;Q92759;P52298;Q92750;P62875;P21675;P52435;Q9Y5B0;Q15370;Q12962;P19388;P29083;P30876;Q14241;Q6IA86;O60583;Q16186;Q9Y5B9;P32780;Q9H9T3;P18615;Q8WX92;Q15543}

19536 Pathogen[ P03410] interacts with 64 human partners:{O60583;Q08945;O00472;P52655;P19387;Q13889;P18615;P36954;Q9H3P2;O00268;Q15543;Q92750;O00267;Q9Y5B9;P63272;P24928;Q12962;P21675;P29083;P51946;P30876;P20226;Q15370;Q9H9T3;P23193;Q96EB1;P52657;O15514;P50613;P50750;O60563;P55199;Q8IXH7;Q8WX92;P29084;Q15369;P52435;P52298;Q16514;P49848;O95163;P53803;P19447;P62875;Q00403;P35269;Q16594;P61218;P51948;Q9Y5B0;Q15544;Q13888;P52434;P13984;Q15542;Q16186;P62487;Q09161;Q6IA86;P19388;Q14241;P32780;Q92759;Q9HB65}

19537 Pathogen[ P14075] interacts with 61 human partners:{Q96EB1;Q12962;Q09161;P13984;Q92759;P21675;P52657;Q15542;P18615;Q16186;Q08945;P30876;Q00403;O60563;Q9Y5B0;P29083;P50613;Q14241;P29084;Q6IA86;P19388;P61218;P50750;O60583;Q15544;P19387;P20226;Q16594;Q92750;P62487;Q15370;P23193;Q13889;Q9Y5B9;P49848;O00472;P24928;P35269;P52655;Q16514;P51946;P32780;O95163;P55199;O00268;Q9H9T3;Q9HB65;Q9H3P2;P62875;Q8IXH7;O00267;Q15369;P52434;P63272;P51948;P52298;Q8WX92;P52435;P53803;Q15543;Q13888}

19538 Pathogen[ P0C206] interacts with 64 human partners:{P62875;Q8IXH7;P23193;Q9HB65;P52298;Q16514;Q15543;P49848;Q16186;P36954;P50750;P20226;Q09161;Q15544;Q9H9T3;P52657;P52655;P19388;P61218;O00268;Q6IA86;Q9Y5B9;P29084;Q14241;P13984;P19447;O95163;P53803;Q92750;O15514;P35269;Q9Y5B0;P19387;Q13888;P50613;P18615;P29083;Q92759;Q15370;O00267;Q9H3P2;P52435;P62487;P32780;Q15542;O00472;Q13889;Q8WX92;Q96EB1;Q12962;P24928;P55199;O60583;Q00403;O60563;Q15369;Q08945;P52434;P21675;P51946;P63272;P51948;Q16594;P30876}

19539 Pathogen[ P03363] interacts with 57 human partners:{Q16186;P29083;P29084;Q9Y5B0;Q15370;P49848;P19388;P13984;O60563;P55199;Q8WX92;Q6IA86;P30876;Q13888;P32780;Q92759;P19387;P61218;Q16514;P51946;P24928;O00268;Q9HB65;O00267;Q15369;Q8IXH7;P18615;P52657;P35269;Q12962;Q00403;O60583;Q15544;Q9Y5B9;Q14241;Q9H3P2;Q96EB1;O95163;Q15542;P52298;Q92750;P62487;P21675;P23193;P20226;P52655;P632

72;P50750;Q08945;O00472;Q15543;P53803;P52435;P52434;Q9H9T3;Q09161;Q16594}

19540 [Cluster 1777]GO:0046326+P biological\_process [name] positive regulation of glucose import [def] "Any process that activates or increases the frequency, rate or extent of the import of the hexose monosaccharide glucose into a cell or organelle." [GOC

19541 Pathogen[ Q2Q067] interacts with 5 human partners:{P31749;P53675;P56211;P27986;Q9BX66}

19542 Pathogen[ P0C214] interacts with 5 human partners:{Q9BX66;P53675;P56211;P27986;P31749}

19543 Pathogen[ P03346] interacts with 6 human partners:{Q9BX66;P56211;P31749;O60519;P53675;P27986}

19544 Pathogen[ Q85601] interacts with 5 human partners:{P53675;P31749;Q9BX66;P56211;P27986}

19545 Pathogen[ P14079] interacts with 5 human partners:{P31751;P56211;O60502;P53675;Q9BX66}

19546 Pathogen[ P03383] interacts with 4 human partners:{P27986;P31749;P53675;P56211}

19547 Pathogen[ P03410] interacts with 6 human partners:{P27986;O60502;P31749;P53675;P56211;Q9BX66}

19548 Pathogen[ P14075] interacts with 4 human partners:{P53675;P31749;P27986;P56211}

19549 Pathogen[ P0C206] interacts with 5 human partners:{P53675;P31749;P56211;P27986;Q9BX66}

19550 Pathogen[ P03363] interacts with 5 human partners:{Q9BX66;P31749;P56211;P53675;P27986}

19551 [Cluster 1778]GO:0061198+P biological\_process [name] fungiform papilla formation [def] "The developmental process pertaining to the initial formation of a spongiform papilla from unspecified parts. The fungiform papilla is a mushroom-shaped papilla of the tongue." [GOC

19552 Pathogen[ Q2Q067] interacts with 2 human partners:{Q13547;Q92769}

19553 Pathogen[ P0C214] interacts with 2 human partners:{Q13547;Q92769}

19554 Pathogen[ P03346] interacts with 2 human partners:{Q92769;Q13547}

19555 Pathogen[ Q85601] interacts with 2 human partners:{Q92769;Q13547}

19556 Pathogen[ P14079] interacts with 1 human partners:{Q92769}

19557 Pathogen[ P03383] interacts with 2 human partners:{Q92769;Q13547}

19558 Pathogen[ P03410] interacts with 2 human partners:{Q92769;Q13547}

19559 Pathogen[ P14075] interacts with 2 human partners:{Q13547;Q92769}

19560 Pathogen[ P0C206] interacts with 2 human partners:{Q92769;Q13547}

19561 Pathogen[ P03363] interacts with 1 human partners:{Q13547}

19562 [Cluster 1779]GO:0006904+P biological\_process [name] vesicle docking involved in exocytosis [def] "The initial attachment of a vesicle membrane to a target membrane, mediated by proteins protruding from the membrane of the vesicle and the target membrane, that contributes to exocytosis." [GOC

19563 Pathogen[ Q2Q067] interacts with 4 human partners:{O00186;Q9HCH5;Q9H267;Q15833}

19564 Pathogen[ P0C214] interacts with 3 human partners:{Q15833;O00186;Q9HCH5}

19565 Pathogen[ P03346] interacts with 7 human partners:{Q15833;Q96A65;Q9HCH5;O00186;Q96AX1;Q9H267;Q8WU76}

19566 Pathogen[ Q85601] interacts with 5 human partners:{O00186;Q96A65;Q15833;Q9HCH5;Q9H267}

19567 Pathogen[ P14079] interacts with 9 human partners:{Q8TAG9;Q9HCH5;O00186;Q6PUV4;Q15833;Q96AX1;Q96A65;Q9Y2D4;Q9H267}

19568 Pathogen[ P03383] interacts with 2 human partners:{O00186;Q9HCH5}

19569 Pathogen[ P03410] interacts with 10 human partners:{Q9HCH5;Q9H267;Q15833;Q8WU76;Q8TAG9;Q96A65;Q6PUV4;Q9Y2D4;O00186;Q96AX1}

19570 Pathogen[ P14075] interacts with 2 human partners:{O00186;Q9HCH5}

19571 Pathogen[ P0C206] interacts with 9 human partners:{Q96A65;Q6PUV4;Q8WU76;Q96AX1;Q9HCH5;Q15833;Q9H267;Q8TAG9;O00186}

19572 Pathogen[ P03363] interacts with 6 human partners:{Q96A65;Q8WU76;Q9H267;O00186;Q9HCH5;Q15833}

19573 [Cluster 1780]GO:0010628+P biological\_process [name] positive regulation of gene expression [def] "Any process that increases the frequency, rate or extent of gene expression. Gene expression is the process in which a gene's coding sequence is converted into a mature gene product or products (proteins or RNA). This includes the production of an RNA transcript as well as any processing to produce a mature RNA product or an mRNA (for protein-coding genes) and the translation of that mRNA into protein. Some protein processing events may be included when they are required to form an active form of a product from an inactive precursor form." [GOC

19574 Pathogen[ Q2Q067] interacts with 37 human partners:{Q03052;Q99081;Q96I24;Q01094;P35680;Q96AE4;Q01201;P51610;P11473;Q9UBC3;P27797;Q99966;O15162;Q13469;P26358;O75528;O75444;Q9Y6X2;Q8NI51;O15164;Q96JE7;P55055;O00321;Q7Z2X4;P45984;Q04724;Q8TE85;P60953;P27986;Q9BQA5;P49593;P15923;P49711;Q16649;Q15797;Q00534;Q14397}

19575 Pathogen[ P0C214] interacts with 34 human partners:{O75444;Q03052;Q8NI51;Q9Y6X2;Q13469;P51610;O75528;P31249;O00321;Q99081;P60953;Q04724;Q7Z2X4;Q99966;Q8TE85;Q01094;Q00534;Q01201;P15923;O15162;P26358;Q96I24;Q14397;P49711;O15164;P27797;Q96AE4;P45984;P49593;Q9BQA5;Q15797;Q96JE7;P27986;P18054}

19576 Pathogen[ P03346] interacts with 45 human partners:{Q99081;P31249;Q8NI51;P45984;P11473;Q99966;Q01201;Q96PU8;Q03052;Q15797;P51610;Q8IYA7;P20264;P15923;P18054;O00321;P60953;Q9UBC3;Q96AE4;P26358;Q7Z2X4;O75626;Q8TE

85;P49593;Q01094;O75444;Q13469;O75528;Q96JE7;Q04724;P49711;P35680;Q16649;O75469;P27797;Q14397;Q00534;Q9Y6X2;O15164;Q96I24;P55055;P27986;Q9BQA5;Q99581;O15162}

19577 Pathogen[ Q85601] interacts with 39 human partners: {Q8NI51;Q8TE85;P11473;O75528;Q04724;Q03052;Q96JE7;P49593;Q15797;Q9Y6X2;Q99966;P27797;P26358;Q13469;Q7Z2X4;O15164;P55055;P49711;P51610;P27986;O75444;Q16649;P35680;Q01201;P15923;P31249;Q14397;Q9BQA5;P45984;P60953;Q96AE4;Q99081;O75626;O15162;Q00534;Q96I24;Q01094;O00321;Q9UBC3}

19578 Pathogen[ P14079] interacts with 45 human partners: {P31751;O15164;O15162;P55055;Q06413;P49593;Q16649;O75528;O00321;Q9Y6X2;Q99581;O75626;O43597;P11473;P35680;Q8TE85;Q99966;O60895;Q9BQA5;P15923;Q15797;P51610;Q96JE7;Q01201;P45984;P45983;Q96AE4;Q9UBC3;Q96I24;O75469;P26358;P31249;P04141;O75444;O95760;Q04724;Q99439;Q14397;Q03052;Q13469;Q99081;Q7Z2X4;Q01094;P49711;Q8NI51}

19579 Pathogen[ P03383] interacts with 28 human partners: {P27986;Q8NI51;O75528;Q13469;P49711;Q01094;O15162;P60953;P15923;Q15797;Q00534;Q04724;Q8TE85;O00321;P31249;Q14397;P11473;P51610;Q9BQA5;Q99081;Q9Y6X2;Q01201;Q96JE7;Q96AE4;P45984;O75444;P26358;P27797}

19580 Pathogen[ P03410] interacts with 42 human partners: {Q14397;P04141;P51610;P27986;O43597;Q00534;O60895;Q9BQA5;O75528;O75444;P31249;Q9Y6X2;Q04724;O00321;P15923;Q03052;O95760;Q01201;P11473;O15162;P26358;Q99081;Q8TE85;Q16649;Q7Z2X4;Q99439;Q15797;Q96I24;Q96JE7;Q13469;P49711;Q9UBC3;Q8NI51;P60953;P45984;Q01094;P35680;P49593;O75626;Q96AE4;Q99966;P27797}

19581 Pathogen[ P14075] interacts with 27 human partners: {P60953;Q8NI51;Q96JE7;Q9BQA5;O15162;Q01201;O75444;Q8TE85;P51610;Q00534;P31249;P15923;P26358;O75528;Q13469;P27797;P27986;P11473;Q01094;Q14397;P49711;Q04724;Q99081;Q96AE4;Q9Y6X2;O00321;P45984}

19582 Pathogen[ P0C206] interacts with 43 human partners: {Q8TE85;Q16649;O75528;Q7Z2X4;P27797;Q13469;O75444;P45984;O75469;Q96PU8;Q8NI51;P26358;P55055;O75626;O15164;Q01201;O00321;Q9BQA5;P27986;Q9Y6X2;P49593;Q99581;Q99081;P51610;Q96JE7;P35680;P49711;P15923;Q01094;Q03052;O43597;P60953;Q04724;O15162;Q15797;Q99966;Q14397;Q96AE4;Q9UBC3;Q96I24;P31249;P11473;Q00534}

19583 Pathogen[ P03363] interacts with 34 human partners: {Q16649;Q96I24;Q14397;Q15797;Q04724;Q8NI51;P31249;Q96PU8;P49711;O00321;P11473;Q9Y6X2;P15923;Q00534;Q8TE85;P20264;Q96AE4;Q01094;O75444;P27797;Q9BQA5;P26358;Q13469;Q01201;Q99581;Q8IYA7;Q99081;O75626;Q9UBC3;P60953;P27986;Q03052;O75528;P51610}

19584 [Cluster 1781]GO:0045655+P biological\_process [name] regulation of monocyte differentiation [def] "Any process that modulates the frequency, rate or extent of monocyte differentiation." [GOC

19585 Pathogen[ Q2Q067] interacts with 1 human partners: {Q92985}

19586 Pathogen[ P0C214] interacts with 1 human partners: {Q92985}

19587 Pathogen[ P03346] interacts with 1 human partners: {Q92985}

19588 Pathogen[ Q85601] interacts with 1 human partners: {Q92985}

19589 Pathogen[ P14079] interacts with 1 human partners: {Q92985}

19590 Pathogen[ P03383] interacts with 1 human partners: {Q92985}

19591 Pathogen[ P03410] interacts with 1 human partners: {Q92985}

19592 Pathogen[ P14075] interacts with 1 human partners: {Q92985}

19593 Pathogen[ P0C206] interacts with 1 human partners: {Q92985}

19594 Pathogen[ P03363] interacts with 1 human partners: {Q92985}

19595 [Cluster 1782]GO:0032456+P biological\_process [name] endocytic recycling [def] "The directed movement of membrane-bounded vesicles from recycling endosomes back to the plasma membrane where they are recycled for further rounds of transport." [GOC

19596 Pathogen[ Q2Q067] interacts with 1 human partners: {O75154}

19597 Pathogen[ P0C214] interacts with 1 human partners: {O75154}

19598 Pathogen[ P03346] interacts with 3 human partners: {P42566;O95219;O75154}

19599 Pathogen[ Q85601] interacts with 1 human partners: {O75154}

19600 Pathogen[ P14079] interacts with 2 human partners: {P42566;O75154}

19601 Pathogen[ P03383] interacts with 1 human partners: {O75154}

19602 Pathogen[ P03410] interacts with 3 human partners: {O75154;O95219;P42566}

19603 Pathogen[ P14075] interacts with 1 human partners: {O75154}

19604 Pathogen[ P0C206] interacts with 2 human partners: {O75154;P42566}

19605 Pathogen[ P03363] interacts with 2 human partners: {O95219;O75154}

19606 [Cluster 1783]GO:0070370+P biological\_process [name] cellular heat acclimation [def] "Any process that increases heat tolerance of a cell in response to high temperatures." [GOC

19607 Pathogen[ Q2Q067] interacts with 1 human partners: {Q16576}

19608 Pathogen[ P0C214] interacts with 1 human partners: {Q16576}

19609 Pathogen[ P03346] interacts with 1 human partners: {Q16576}

19610 Pathogen[ Q85601] interacts with 1 human partners: {Q16576}

19611 Pathogen[ P14079] interacts with 1 human partners: {Q16576}

19612 Pathogen[ P03383] interacts with 1 human partners: {Q16576}

19613 Pathogen[ P03410] interacts with 1 human partners: {Q16576}

19614 Pathogen[ P14075] interacts with 1 human partners: {Q16576}

19615 Pathogen[ P0C206] interacts with 1 human partners: {Q16576}

19616 Pathogen[ P03363] interacts with 1 human partners: {Q16576}

19617 [Cluster 1784]GO:0006646+P biological\_process [name] phosphatidylethanolamine biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of phosphatidylethanolamine, any of a class of glycerophospholipids in which a

phosphatidyl group is esterified to the hydroxyl group of ethanolamine." [ISBN  
19618 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9UG56;Q92539;Q14693}  
19619 Pathogen[ P0C214] interacts with 4 human partners:{Q92539;Q9BQK8;Q9UG56;Q14693}  
19620 Pathogen[ P03346] interacts with 3 human partners:{Q92539;Q9UG56;Q14693}  
19621 Pathogen[ Q85601] interacts with 3 human partners:{Q9UG56;Q92539;Q14693}  
19622 Pathogen[ P14079] interacts with 4 human partners:{Q9BQK8;Q14693;Q92539;Q9UG56}  
19623 Pathogen[ P03383] interacts with 2 human partners:{Q92539;Q14693}  
19624 Pathogen[ P03410] interacts with 4 human partners:{Q9BQK8;Q14693;Q92539;Q9UG56}  
19625 Pathogen[ P14075] interacts with 3 human partners:{Q92539;Q9UG56;Q14693}  
19626 Pathogen[ P0C206] interacts with 4 human partners:{Q92539;Q9UG56;Q9BQK8;Q14693}  
19627 Pathogen[ P03363] interacts with 1 human partners:{Q92539}  
19628 [Cluster 1785]GO:0009101+P biological\_process [name] glycoprotein biosynthetic process  
[def] "The chemical reactions and pathways resulting in the formation of glycoproteins,  
any protein that contains covalently bound glucose (i.e. monosaccharide) residues\_ the  
glycose occurs most commonly as oligosaccharide or fairly small polysaccharide but  
occasionally as monosaccharide." [GOC  
19629 Pathogen[ Q2Q067] interacts with 1 human partners:{Q15025}  
19630 Pathogen[ P0C214] interacts with 1 human partners:{Q15025}  
19631 Pathogen[ P03346] interacts with 1 human partners:{Q15025}  
19632 Pathogen[ Q85601] interacts with 1 human partners:{Q15025}  
19633 Pathogen[ P14079] interacts with 1 human partners:{Q15025}  
19634 Pathogen[ P03383] interacts with 1 human partners:{Q15025}  
19635 Pathogen[ P03410] interacts with 1 human partners:{Q15025}  
19636 Pathogen[ P14075] interacts with 1 human partners:{Q15025}  
19637 Pathogen[ P0C206] interacts with 1 human partners:{Q15025}  
19638 Pathogen[ P03363] interacts with 1 human partners:{Q15025}  
19639 [Cluster 1786]GO:0009992+P biological\_process [name] cellular water homeostasis  
[def] "Any process involved in the maintenance of an internal steady state of water  
within a cell." [GOC  
19640 Pathogen[ Q2Q067] interacts with 1 human partners:{P20073}  
19641 Pathogen[ P0C214] interacts with 1 human partners:{P20073}  
19642 Pathogen[ P03346] interacts with 1 human partners:{P20073}  
19643 Pathogen[ Q85601] interacts with 1 human partners:{P20073}  
19644 Pathogen[ P14079] interacts with 1 human partners:{P20073}  
19645 Pathogen[ P03383] interacts with 1 human partners:{P20073}  
19646 Pathogen[ P03410] interacts with 1 human partners:{P20073}  
19647 Pathogen[ P14075] interacts with 1 human partners:{P20073}  
19648 Pathogen[ P0C206] interacts with 1 human partners:{P20073}  
19649 Pathogen[ P03363] interacts with 1 human partners:{P20073}  
19650 [Cluster 1787]GO:0030218+P biological\_process [name] erythrocyte differentiation  
[def] "The process in which a myeloid precursor cell acquires specializes features of an  
erythrocyte." [GOC  
19651 Pathogen[ Q2Q067] interacts with 15 human  
partners:{Q8IZD2;P10827;P15976;Q02447;P22557;P55347;P62263;Q8IX07;O00321;Q9UKV3;P231  
93;P39019;Q99717;Q99814;P17947}  
19652 Pathogen[ P0C214] interacts with 14 human  
partners:{P55347;O00321;P39019;P62263;P17947;P22557;Q8IX07;Q02447;Q99814;Q99717;Q9UK  
V3;P23193;P22830;Q8IZD2}  
19653 Pathogen[ P03346] interacts with 18 human  
partners:{P10827;O00321;Q99717;P22557;Q13351;Q9UKV3;P17542;P15976;Q8IX07;Q99814;P390  
19;P14317;P55347;P17947;P23193;P62263;Q02447;Q8IZD2}  
19654 Pathogen[ Q85601] interacts with 15 human  
partners:{P15976;P39019;Q99814;P62263;Q9UKV3;Q99717;Q8IX07;P10827;Q02447;P23193;P143  
17;P55347;P17947;Q8IZD2;O00321}  
19655 Pathogen[ P14079] interacts with 17 human  
partners:{Q99814;O00321;Q8TAG9;P55347;P22557;Q02447;P15976;O00115;P10827;P35611;P390  
19;P62263;Q9UKV3;Q8IX07;Q13351;P22830;P23193}  
19656 Pathogen[ P03383] interacts with 9 human  
partners:{P39019;P23193;O00321;P55347;Q02447;Q9UKV3;Q99717;P62263;P17947}  
19657 Pathogen[ P03410] interacts with 17 human  
partners:{Q02447;Q99814;P17947;Q99717;O00321;P23193;P22557;Q8IX07;Q9UKV3;Q8TAG9;P228  
30;P55347;P62263;O00115;P39019;P35611;P15976}  
19658 Pathogen[ P14075] interacts with 9 human  
partners:{Q99717;Q9UKV3;P55347;P23193;P17947;Q02447;P39019;P62263;O00321}  
19659 Pathogen[ P0C206] interacts with 18 human  
partners:{P23193;P14317;Q99717;P62263;P15976;O00321;P22557;Q02447;P22830;P17947;P390  
19;Q8IX07;Q99814;Q8TAG9;Q8IZD2;Q9UKV3;P10827;P55347}  
19660 Pathogen[ P03363] interacts with 11 human  
partners:{Q9UKV3;Q02447;P17947;P55347;O00321;P39019;Q99814;P14317;P23193;Q99717;P622  
63}  
19661 [Cluster 1788]GO:0006289+P biological\_process [name] nucleotide-excision repair  
[def] "A DNA repair process in which a small region of the strand surrounding the damage  
is removed from the DNA helix as an oligonucleotide. The small gap left in the DNA helix  
is filled in by the sequential action of DNA polymerase and DNA ligase. Nucleotide  
excision repair recognizes a wide range of substrates, including damage caused by UV  
irradiation (pyrimidine dimers and 6-4 photoproducts) and chemicals (intrastrand

- cross-links and bulky adducts)." [PMID
- 19662 Pathogen[ Q2Q067] interacts with 49 human  
partners: {Q15054;P52434;Q9Y2M0;P54252;Q6PJP8;Q92889;P27694;Q13889;P19388;P52435;Q969S2;P35244;P32780;P30876;P19387;P61218;Q92759;P54727;P49005;Q16531;Q13156;Q00597;P54725;P12004;P62487;P51948;P15927;P56282;Q9HCU8;P50613;O15527;Q03468;P62875;P24928;Q13216;P23193;Q96T76;P41208;P35251;Q01831;P53803;Q8IY92;Q92466;Q6ZYL4;Q9HCS7;Q13888;P28715;P51946;P23025}
- 19663 Pathogen[ P0C214] interacts with 46 human  
partners: {P51946;Q9HCS7;Q00597;Q13156;P30876;Q92889;P53803;P50613;P23025;P52435;Q6ZYL4;P54725;P61218;P35251;Q9Y2M0;P49005;Q9HCU8;Q13216;Q6PJP8;P28715;P62487;P51948;P15927;P35244;P62875;P54727;P32780;P41208;P24928;Q01831;Q15054;Q13888;P52434;P27694;Q8IY92;P19387;P23193;P19388;O15527;Q92466;P56282;Q16531;Q03468;Q92759;P54252;Q96T76}
- 19664 Pathogen[ P03346] interacts with 54 human  
partners: {P12004;P28715;P52434;Q9HCU8;P27694;P07992;P35244;P35250;Q16531;Q13156;Q13888;P56282;P53803;P61218;P49005;Q9HCS7;Q13889;P62487;Q969S2;P41208;P19388;Q03468;Q6ZYL4;Q01831;P52435;P51587;P51946;P36954;P15927;P54727;P35249;Q13216;Q92759;Q92889;P30876;Q00597;P54725;P23025;Q6PJP8;P35251;P24928;P23193;Q92466;Q8IY92;O15527;Q9Y2M0;P40937;P51948;P32780;Q96T76;P62875;Q15054;P19387;P54252}
- 19665 Pathogen[ Q85601] interacts with 53 human  
partners: {P51946;Q9Y2M0;P36954;O15527;Q9HCS7;Q96T76;P23025;Q01831;Q6ZYL4;Q969S2;Q16531;P56282;Q13888;Q13216;P35244;P53803;P61218;Q9UGP5;P49005;P51948;Q15054;P27694;Q00597;Q96FI4;P54252;Q92889;P28715;P62487;P19388;Q03468;P54727;Q8IY92;P15927;Q92759;P32780;P52435;P54725;P35251;P50613;P23193;Q9HCU8;Q13156;P19387;Q6PJP8;P12004;P24928;P30876;P52434;Q92466;P19447;P51587;P62875;P41208}
- 19666 Pathogen[ P14079] interacts with 58 human  
partners: {P62875;Q8TAT5;P28715;P19387;P51946;Q9UGP5;P62487;P40937;P52434;Q16531;P49005;O15514;P54252;P30876;Q00597;P61218;P51587;Q9HCU8;Q13216;Q13889;P53803;O15527;Q13156;Q9HCS7;P23025;P50613;Q13888;Q15054;P35250;P19388;Q6ZYL4;P56282;P52435;P35251;Q969S2;Q92759;Q96FI4;Q92889;Q9Y2M0;P32780;P41208;P15927;P23193;P27694;Q03468;Q92466;P12004;P24928;Q01831;Q6PJP8;P35244;P54727;P36954;Q96T76;P07992;P19447;Q8IY92;P51948}
- 19667 Pathogen[ P03383] interacts with 44 human  
partners: {P53803;Q96T76;Q9HCU8;Q6ZYL4;Q13216;P51948;Q9HCS7;O15527;Q13888;P23193;P27694;P41208;Q6PJP8;P52434;P61218;P49005;Q01831;P56282;P62487;P54252;P15927;P19387;P50613;P51946;P24928;Q03468;P23025;P54725;P35244;Q9Y2M0;P54727;Q92759;Q15054;Q8IY92;Q00597;P62875;P52435;P19388;Q16531;Q13156;Q92466;P30876;P32780;P35251}
- 19668 Pathogen[ P03410] interacts with 59 human  
partners: {P23025;P35244;Q96FI4;Q96T76;P19387;Q13889;P36954;P07992;P24928;P51946;Q6ZYL4;P30876;P54252;Q92889;P56282;P23193;Q03468;P54725;P28715;Q8TAT5;Q92466;O15514;P50613;Q01831;Q9HCS7;Q9UGP5;P35251;P52435;Q8IY92;Q6PJP8;Q00597;O15527;P51587;P53803;P19447;Q13156;P62875;Q15054;P61218;Q16531;Q13216;P51948;Q13888;P52434;P62487;Q969S2;P49005;P27694;P15927;P35250;Q9Y2M0;P40937;P41208;P19388;P12004;P32780;Q92759;Q9HCU8;P54727}
- 19669 Pathogen[ P14075] interacts with 45 human  
partners: {Q92759;P23025;P30876;Q01831;Q6ZYL4;P50613;O15527;P19388;P61218;Q13216;P49005;P19387;P15927;P54252;P62487;Q9Y2M0;Q03468;Q13156;P35244;P23193;Q13889;P24928;P54727;P35251;Q16531;Q15054;P41208;P27694;P51946;P32780;Q9HCS7;P54725;Q9HCU8;P56282;P62875;Q92466;Q00597;Q6PJP8;P52434;Q8IY92;Q96T76;P51948;P52435;P53803;Q13888}
- 19670 Pathogen[ P0C206] interacts with 58 human  
partners: {P62875;Q9Y2M0;P28715;P54725;P23193;P35251;P36954;O15527;Q9HCU8;Q13156;P51587;Q6PJP8;P19388;P61218;Q03468;Q16531;P49005;P54252;Q13216;Q9UGP5;P07992;P19447;P53803;O15514;Q15054;P19387;Q13888;P50613;Q92889;Q8TAT5;Q01831;Q92759;P54727;P49916;Q96FI4;P52435;P62487;P32780;Q96T76;Q969S2;Q13889;P41208;P56282;Q00597;P27694;P15927;P24928;Q6ZYL4;Q92466;P35244;Q8IY92;Q9HCS7;P23025;P52434;P51946;P51948;P12004;P30876}
- 19671 Pathogen[ P03363] interacts with 43 human  
partners: {P27694;Q6ZYL4;O15527;P54727;P19388;Q00597;P30876;Q9Y2M0;Q9HCS7;Q01831;Q13888;P32780;Q16531;Q92759;P19387;P61218;P51946;Q96FI4;Q92889;P35251;P23025;P24928;P54252;P49005;P35244;P41208;P15927;Q9HCU8;Q96T76;Q13156;Q6PJP8;Q8IY92;P54725;P62487;P23193;Q92466;Q03468;Q15054;Q13216;P53803;P52435;P52434;Q969S2}
- 19672 [Cluster 1789]GO:0030261+P biological\_process [name] chromosome condensation [def] "The progressive compaction of dispersed interphase chromatin into threadlike chromosomes prior to mitotic or meiotic nuclear division, or during apoptosis, in eukaryotic cells." [GOC
- 19673 Pathogen[ Q2Q067] interacts with 9 human  
partners: {P42695;O95347;P11388;Q86XI2;Q15003;Q15021;Q86YI8;Q14683;Q9BPX3}
- 19674 Pathogen[ P0C214] interacts with 9 human  
partners: {Q9BPX3;Q86XI2;Q15003;P42695;O95347;P11388;Q86YI8;Q14683;Q15021}
- 19675 Pathogen[ P03346] interacts with 10 human  
partners: {P11388;O95347;Q86XI2;Q6IBW4;Q9BPX3;Q15021;Q14683;P42695;Q86YI8;Q15003}
- 19676 Pathogen[ Q85601] interacts with 9 human  
partners: {O95347;P42695;Q9BPX3;Q14683;P11388;Q86YI8;Q86XI2;Q15003;Q15021}
- 19677 Pathogen[ P14079] interacts with 10 human  
partners: {P11388;Q6IBW4;Q15003;O95347;Q86YI8;Q9BPX3;Q86XI2;Q15021;Q14683;P42695}
- 19678 Pathogen[ P03383] interacts with 7 human  
partners: {Q14683;Q86XI2;O95347;Q15003;Q86YI8;Q9BPX3;Q15021}
- 19679 Pathogen[ P03410] interacts with 11 human  
partners: {P42695;Q15003;O95347;P04553;Q14683;P11388;Q6IBW4;Q9BPX3;Q86XI2;Q15021;Q86Y



I8}

19680 Pathogen[ P14075] interacts with 7 human partners:{Q14683;Q86XI2;Q95347;Q86YI8;Q15003;Q9BPX3;Q15021}

19681 Pathogen[ P0C206] interacts with 11 human partners:{Q9BPX3;P42695;Q15021;Q15003;Q86XI2;Q95347;Q6IBW4;Q14683;Q86YI8;P11388;Q9NTJ3}

19682 Pathogen[ P03363] interacts with 7 human partners:{Q15021;Q95347;Q86XI2;Q9BPX3;P42695;Q14683;Q15003}

19683 [Cluster 1790]GO:0043928+P biological\_process [name] exonucleolytic nuclear-transcribed mRNA catabolic process involved in deadenylation-dependent decay [def] "The chemical reactions and pathways resulting in the breakdown of the transcript body of a nuclear-transcribed mRNA that occurs when the ends are not protected by the 3'-poly(A) tail." [GOC

19684 Pathogen[ Q2Q067] interacts with 25 human partners:{Q8IU60;P62312;Q9Y333;Q9NQT4;Q8IZH2;Q8IZD4;Q9Y2L1;Q9NPI6;Q06265;Q96F86;Q9UK45;Q96C86;Q13868;Q9Y3B2;Q9NPD3;Q86TB9;P26196;Q5RKV6;Q15024;O15116;Q9Y4Z0;P62310;Q96B26;Q9Y4Y9;Q6P2E9}

19685 Pathogen[ P0C214] interacts with 25 human partners:{P62312;O15116;Q96C86;P26196;Q15024;Q6P2E9;Q9NPI6;Q9Y2L1;Q9Y3B2;Q5RKV6;Q9Y4Z0;Q9UK45;Q9Y4Y9;Q8IZH2;Q9Y333;Q9NPD3;P62310;Q86TB9;Q13868;Q8IU60;Q06265;Q9NQT4;Q96F86;Q96B26;Q8IZD4}

19686 Pathogen[ P03346] interacts with 26 human partners:{Q5RKV6;Q9NPI6;Q96C86;Q9Y4Y9;Q96B26;Q9Y3B2;Q9Y333;Q8IZH2;Q15024;Q8IU60;Q86TB9;Q9Y4Z0;Q6P2E9;Q9Y2L1;Q9NQT5;O15116;P26196;Q8IZD4;Q06265;Q9NQT4;P62312;Q9NPD3;Q96F86;P62310;Q9UK45;Q13868}

19687 Pathogen[ Q85601] interacts with 25 human partners:{Q5RKV6;Q6P2E9;Q9NPD3;Q9NPI6;O15116;Q13868;Q9UK45;Q9Y2L1;Q8IZH2;Q86TB9;Q96C86;P62310;Q9Y4Z0;Q9NQT4;Q9Y3B2;P62312;Q15024;Q8IZD4;Q06265;P26196;Q96F86;Q9Y333;Q96B26;Q8IU60;Q9Y4Y9}

19688 Pathogen[ P14079] interacts with 25 human partners:{Q9Y333;Q9Y3B2;Q8IZD4;Q8IU60;Q15024;Q9UK45;Q9NPI6;Q86TB9;Q9NQT4;Q13868;Q9NPD3;Q96C86;O15116;P62312;Q6P2E9;Q8IZH2;Q9Y4Z0;P26196;Q5RKV6;Q96F86;Q9Y2L1;P62310;Q96B26;Q9Y4Y9;Q06265}

19689 Pathogen[ P03383] interacts with 24 human partners:{Q06265;Q9Y2L1;Q8IU60;P62312;Q9Y4Y9;P26196;Q9Y3B2;P62310;Q9NPD3;Q9NQT4;Q9NPI6;Q9Y333;Q86TB9;Q96B26;Q8IZD4;Q9Y4Z0;Q9UK45;Q5RKV6;Q96C86;Q96F86;O15116;Q13868;Q15024;Q6P2E9}

19690 Pathogen[ P03410] interacts with 24 human partners:{Q8IU60;Q9Y2L1;Q9Y4Y9;P62310;Q9NPI6;Q06265;Q5RKV6;Q9Y333;Q13868;Q8IZH2;Q8IZD4;Q96B26;Q96F86;Q6P2E9;Q15024;Q9NQT4;Q9Y4Z0;Q86TB9;Q9NPD3;O15116;P62312;Q96C86;Q9UK45;Q9Y3B2}

19691 Pathogen[ P14075] interacts with 24 human partners:{Q6P2E9;Q9UK45;Q9NPD3;Q9Y4Z0;P26196;Q9NPI6;Q8IU60;Q9Y2L1;Q13868;P62312;Q9NQT4;Q8IZD4;O15116;Q86TB9;Q5RKV6;Q96B26;Q9Y333;Q96C86;Q15024;Q9Y4Y9;Q06265;Q9Y3B2;Q96F86;P62310}

19692 Pathogen[ P0C206] interacts with 25 human partners:{Q86TB9;Q8IZH2;Q96C86;Q9NPD3;Q5RKV6;Q13868;P26196;Q9NPI6;Q96B26;Q9Y4Y9;Q9Y4Z0;Q9Y333;Q8IZD4;Q9UK45;Q06265;Q6P2E9;Q96F86;Q15024;Q9Y2L1;Q9Y3B2;P62312;Q9NQT4;P62310;Q8IU60;O15116}

19693 Pathogen[ P03363] interacts with 25 human partners:{Q96B26;Q9NQT4;Q9Y4Y9;Q5RKV6;Q9Y4Z0;P62312;Q15024;Q9Y3B2;Q6P2E9;Q8IZD4;Q9NPD3;O15116;Q9Y333;Q96F86;Q9Y2L1;P26196;Q13868;P62310;Q9NQT5;Q86TB9;Q9UK45;Q96C86;Q9NPI6;Q8IZH2;Q8IU60}

19694 [Cluster 1791]GO:0060598+P biological\_process [name] dichotomous subdivision of terminal units involved in mammary gland duct morphogenesis [def] "The process in which the terminal end of a mammary duct bifurcates." [GOC

19695 Pathogen[ Q2Q067] interacts with 1 human partners:{Q92754}

19696 Pathogen[ P0C214] interacts with 1 human partners:{Q92754}

19697 Pathogen[ P03346] interacts with 1 human partners:{Q92754}

19698 Pathogen[ Q85601] interacts with 1 human partners:{Q92754}

19699 Pathogen[ P14079] interacts with 1 human partners:{Q92754}

19700 Pathogen[ P03383] interacts with 1 human partners:{Q92754}

19701 Pathogen[ P03410] interacts with 1 human partners:{Q92754}

19702 Pathogen[ P14075] interacts with 1 human partners:{Q92754}

19703 Pathogen[ P0C206] interacts with 1 human partners:{Q92754}

19704 Pathogen[ P03363] interacts with 1 human partners:{Q92754}

19705 [Cluster 1792]GO:0032966+P biological\_process [name] negative regulation of collagen biosynthetic process [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the chemical reactions and pathways resulting in the formation of collagen, any of a group of fibrous proteins of very high tensile strength that form the main component of connective tissue in animals." [GOC

19706 Pathogen[ Q2Q067] interacts with 1 human partners:{P33076}

19707 Pathogen[ P0C214] interacts with 1 human partners:{P33076}

19708 Pathogen[ P03346] interacts with 1 human partners:{P33076}

19709 Pathogen[ Q85601] interacts with 1 human partners:{P33076}

19710 Pathogen[ P14079] interacts with 1 human partners:{P33076}

19711 Pathogen[ P03383] interacts with 1 human partners:{P33076}

19712 Pathogen[ P03410] interacts with 1 human partners:{P33076}

19713 Pathogen[ P14075] interacts with 1 human partners:{P33076}

19714 Pathogen[ P0C206] interacts with 1 human partners:{P33076}

19715 Pathogen[ P03363] interacts with 1 human partners:{P33076}

19716 [Cluster 1793]GO:0043619+P biological\_process [name] regulation of transcription from RNA polymerase II promoter in response to oxidative stress [def] "Modulation of the frequency, rate or extent of transcription from an RNA polymerase II promoter as a result of a stimulus indicating the organism is under oxidative stress, a state often resulting from exposure to high levels of reactive oxygen species, e.g. superoxide anions, hydrogen peroxide (H2O2), and hydroxyl radicals." [GOC

19717 Pathogen[ Q2Q067] interacts with 3 human partners:{P27540;Q96ST3;Q99814}

19718 Pathogen[ P0C214] interacts with 3 human partners:{Q99814;Q96ST3;P27540}

19719 Pathogen[ P03346] interacts with 3 human partners:{Q96ST3;P27540;Q99814}

19720 Pathogen[ Q85601] interacts with 3 human partners:{Q99814;P27540;Q96ST3}

19721 Pathogen[ P14079] interacts with 3 human partners:{Q99814;Q96ST3;P27540}

19722 Pathogen[ P03383] interacts with 2 human partners:{P27540;Q96ST3}

19723 Pathogen[ P03410] interacts with 3 human partners:{Q99814;Q96ST3;P27540}

19724 Pathogen[ P14075] interacts with 2 human partners:{Q96ST3;P27540}

19725 Pathogen[ P0C206] interacts with 3 human partners:{Q96ST3;P27540;Q99814}

19726 Pathogen[ P03363] interacts with 3 human partners:{P27540;Q96ST3;Q99814}

19727 [Cluster 1794]GO:0032206+P biological\_process [name] positive regulation of telomere maintenance [def] "Any process that activates or increases the frequency, rate or extent of a process that affects and monitors the activity of telomeric proteins and the length of telomeric DNA." [GOC

19728 Pathogen[ Q2Q067] interacts with 2 human partners:{Q15554;Q9BSI4}

19729 Pathogen[ P0C214] interacts with 2 human partners:{Q9BSI4;Q15554}

19730 Pathogen[ P03346] interacts with 2 human partners:{Q9BSI4;Q15554}

19731 Pathogen[ Q85601] interacts with 1 human partners:{Q15554}

19732 Pathogen[ P14079] interacts with 2 human partners:{Q9BSI4;Q15554}

19733 Pathogen[ P03383] interacts with 2 human partners:{Q15554;Q9BSI4}

19734 Pathogen[ P03410] interacts with 2 human partners:{Q15554;Q9BSI4}

19735 Pathogen[ P14075] interacts with 2 human partners:{Q15554;Q9BSI4}

19736 Pathogen[ P0C206] interacts with 2 human partners:{Q15554;Q9BSI4}

19737 Pathogen[ P03363] interacts with 2 human partners:{Q15554;Q9BSI4}

19738 [Cluster 1795]GO:0061014+P biological\_process [name] positive regulation of mRNA catabolic process [def] "Any process that increases the rate, frequency, or extent of a mRNA catabolic process, the chemical reactions and pathways resulting in the breakdown of RNA, ribonucleic acid, one of the two main type of nucleic acid, consisting of a long, unbranched macromolecule formed from ribonucleotides joined in 3',5'-phosphodiester linkage." [GOC

19739 Pathogen[ Q2Q067] interacts with 2 human partners:{Q8TCS8;Q7Z2W4}

19740 Pathogen[ P0C214] interacts with 2 human partners:{Q7Z2W4;Q8TCS8}

19741 Pathogen[ P03346] interacts with 2 human partners:{Q8TCS8;Q7Z2W4}

19742 Pathogen[ Q85601] interacts with 2 human partners:{Q7Z2W4;Q8TCS8}

19743 Pathogen[ P14079] interacts with 3 human partners:{Q7Z2W4;O00178;Q8TCS8}

19744 Pathogen[ P03383] interacts with 2 human partners:{Q8TCS8;Q7Z2W4}

19745 Pathogen[ P03410] interacts with 3 human partners:{Q8TCS8;Q7Z2W4;O00178}

19746 Pathogen[ P14075] interacts with 2 human partners:{Q7Z2W4;Q8TCS8}

19747 Pathogen[ P0C206] interacts with 2 human partners:{Q8TCS8;Q7Z2W4}

19748 Pathogen[ P03363] interacts with 1 human partners:{Q7Z2W4}

19749 [Cluster 1796]GO:0021892+P biological\_process [name] cerebral cortex GABAergic interneuron differentiation [def] "The process in which a relatively unspecialized cell acquires specialized features of a GABAergic interneuron residing in the cerebral cortex." [GO\_REF

19750 Pathogen[ Q2Q067] interacts with 1 human partners:{Q07687}

19751 Pathogen[ P0C214] interacts with 1 human partners:{Q07687}

19752 Pathogen[ P03346] interacts with 1 human partners:{P56177}

19753 Pathogen[ Q85601] interacts with 1 human partners:{Q07687}

19754 Pathogen[ P14079] interacts with 1 human partners:{Q07687}

19755 Pathogen[ P03383] interacts with 1 human partners:{Q07687}

19756 Pathogen[ P03410] interacts with 1 human partners:{Q07687}

19757 Pathogen[ P14075] interacts with 1 human partners:{Q07687}

19758 Pathogen[ P0C206] interacts with 2 human partners:{Q07687;P56177}

19759 Pathogen[ P03363] interacts with 2 human partners:{P56177;Q07687}

19760 [Cluster 1797]GO:0070536+P biological\_process [name] protein K63-linked deubiquitination [def] "A protein deubiquitination process in which a K63-linked ubiquitin chain, i.e. a polymer of ubiquitin formed by linkages between lysine residues at position 63 of the ubiquitin monomers, is removed from a protein." [GOC

19761 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NWW8}

19762 Pathogen[ P0C214] interacts with 1 human partners:{Q9NWW8}

19763 Pathogen[ P03346] interacts with 2 human partners:{Q9UHP3;Q9NWW8}

19764 Pathogen[ Q85601] interacts with 2 human partners:{Q9NQC7;Q9NWW8}

19765 Pathogen[ P14079] interacts with 3 human partners:{O00487;Q9NWW8;Q9NQC7}

19766 Pathogen[ P03383] interacts with 1 human partners:{Q9NWW8}

19767 Pathogen[ P03410] interacts with 1 human partners:{Q9NWW8}

19768 Pathogen[ P14075] interacts with 1 human partners:{Q9NWW8}  
19769 Pathogen[ P0C206] interacts with 3 human partners:{Q9NQC7;Q9NWW8;Q9UHP3}  
19770 Pathogen[ P03363] interacts with 2 human partners:{Q9UHP3;Q9NWW8}  
19771 [Cluster 1798]GO:0043983+P biological\_process [name] histone H4-K12 acetylation  
[def] "The modification of histone H4 by the addition of an acetyl group to a lysine  
residue at position 12 of the histone." [GOC  
19772 Pathogen[ Q2Q067] interacts with 5 human  
partners:{Q6IE81;Q9HAF1;Q9UNL4;Q92830;O60885}  
19773 Pathogen[ P0C214] interacts with 6 human  
partners:{Q9UNL4;Q9HAF1;O95251;Q6IE81;O60885;Q92830}  
19774 Pathogen[ P03346] interacts with 6 human  
partners:{Q9UNL4;Q92830;O95251;Q6IE81;O60885;Q9HAF1}  
19775 Pathogen[ Q85601] interacts with 6 human  
partners:{O95251;Q9HAF1;Q9UNL4;Q92830;Q6IE81;O60885}  
19776 Pathogen[ P14079] interacts with 6 human  
partners:{Q92830;O95251;Q9UNL4;Q9HAF1;Q6IE81;O60885}  
19777 Pathogen[ P03383] interacts with 6 human  
partners:{O95251;Q9UNL4;Q92830;O60885;Q9HAF1;Q6IE81}  
19778 Pathogen[ P03410] interacts with 5 human  
partners:{Q92830;O60885;O95251;Q9UNL4;Q6IE81}  
19779 Pathogen[ P14075] interacts with 6 human  
partners:{Q6IE81;Q9HAF1;O95251;Q9UNL4;O60885;Q92830}  
19780 Pathogen[ P0C206] interacts with 6 human  
partners:{Q92830;O95251;O60885;Q9HAF1;Q6IE81;Q9UNL4}  
19781 Pathogen[ P03363] interacts with 6 human  
partners:{Q6IE81;Q9HAF1;Q9UNL4;O60885;Q92830;O95251}  
19782 [Cluster 1799]GO:0016458+P biological\_process [name] gene silencing [def] "Any  
transcriptional or post-transcriptional process carried out at the cellular level that  
results in long-term gene inactivation." [GOC  
19783 Pathogen[ Q2Q067] interacts with 4 human partners:{Q8IXJ6;P35712;P26358;Q9HD42}  
19784 Pathogen[ P0C214] interacts with 4 human partners:{Q9HD42;P26358;Q8IXJ6;P35712}  
19785 Pathogen[ P03346] interacts with 5 human  
partners:{Q9HD42;Q8IXJ6;P26358;Q96GD3;P35712}  
19786 Pathogen[ Q85601] interacts with 4 human partners:{P35712;P26358;Q8IXJ6;Q9HD42}  
19787 Pathogen[ P14079] interacts with 4 human partners:{P35712;Q9HD42;P26358;Q8IXJ6}  
19788 Pathogen[ P03383] interacts with 3 human partners:{P35712;Q9HD42;P26358}  
19789 Pathogen[ P03410] interacts with 4 human partners:{P35712;Q8IXJ6;P26358;Q9HD42}  
19790 Pathogen[ P14075] interacts with 3 human partners:{P26358;P35712;Q9HD42}  
19791 Pathogen[ P0C206] interacts with 4 human partners:{P26358;Q8IXJ6;P35712;Q9HD42}  
19792 Pathogen[ P03363] interacts with 3 human partners:{P26358;P35712;Q9HD42}  
19793 [Cluster 1800]GO:0006936+P biological\_process [name] muscle contraction [def] "A  
process in which force is generated within muscle tissue, resulting in a change in  
muscle geometry. Force generation involves a chemo-mechanical energy conversion step  
that is carried out by the actin/myosin complex activity, which generates force through  
ATP hydrolysis." [GOC  
19794 Pathogen[ Q2Q067] interacts with 12 human  
partners:{P50402;Q86U42;Q9UKX2;P60660;Q13884;P02511;P46939;Q13045;P12883;O60504;Q9BX  
66;P17661}  
19795 Pathogen[ P0C214] interacts with 19 human  
partners:{P68133;Q9UKX2;P02511;P14649;Q9BX66;P60660;Q13884;Q13045;P13535;P50402;P469  
39;P62736;P12883;O60504;P13533;Q9Y623;Q86U42;P35749;P17661}  
19796 Pathogen[ P03346] interacts with 16 human  
partners:{Q86U42;P60660;P62736;Q13884;Q9BX66;P46939;Q13424;P14649;P17661;P02511;P504  
02;Q9UKX2;O60504;Q13045;O75506;Q9UBF9}  
19797 Pathogen[ Q85601] interacts with 19 human  
partners:{P68133;Q13884;P17661;P13533;Q9BX66;P14649;Q13045;Q9UKX2;P02511;P46939;P357  
49;P12883;P50402;O60504;P13535;Q86U42;P60660;Q9Y623;P62736}  
19798 Pathogen[ P14079] interacts with 24 human  
partners:{P07951;P02511;Q9UBF9;Q13045;O60504;Q9UKX2;Q13424;P14649;P23327;P46939;O755  
06;P68032;Q16586;Q14353;P63267;Q86U42;P60660;P12883;Q05682;P49023;P50402;P17661;Q9BX  
66;P68133}  
19799 Pathogen[ P03383] interacts with 10 human  
partners:{Q13884;P17661;P02511;P46939;Q9UKX2;P12883;P50402;O60504;Q13045;Q86U42}  
19800 Pathogen[ P03410] interacts with 25 human  
partners:{Q14353;P62736;Q9UKX2;Q9UBF9;P17661;Q05682;Q13045;P23327;Q13884;P07951;P025  
11;P46939;P12883;O75506;P68133;O60504;P50402;P14649;P13533;Q86U42;Q13424;P60660;P135  
35;Q9BX66;Q16635}  
19801 Pathogen[ P14075] interacts with 10 human  
partners:{Q13884;Q9UKX2;P17661;P50402;P23327;P46939;P02511;O60504;Q86U42;Q13045}  
19802 Pathogen[ P0C206] interacts with 21 human  
partners:{P46939;P50402;P17661;O60504;P13533;P62736;Q9Y623;Q13045;P60660;Q86U42;P146  
49;P68133;Q13884;P12883;P35749;Q9UKX2;P23327;Q9BX66;P02511;Q13424;P13535}  
19803 Pathogen[ P03363] interacts with 15 human  
partners:{P46939;Q9BX66;P14649;Q9UKX2;Q9UBF9;P62736;Q13045;P68133;O75506;Q86U42;P176  
61;Q13884;P50402;P60660;Q13424}  
19804 [Cluster 1801]GO:0050728+P biological\_process [name] negative regulation of

inflammatory response [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the inflammatory response." [GOC

19805 Pathogen[ Q2Q067] interacts with 5 human partners:{Q9H0F6;P84022;Q9BQE4;Q9BZF9;P26651}

19806 Pathogen[ P0C214] interacts with 6 human partners:{P84022;Q9H0F6;P01008;P26651;Q9BZF9;Q9BQE4}

19807 Pathogen[ P03346] interacts with 4 human partners:{Q9H0F6;P84022;Q9BZF9;P26651}

19808 Pathogen[ Q85601] interacts with 6 human partners:{Q9BZF9;Q9H0F6;P26651;P84022;P01008;Q9BQE4}

19809 Pathogen[ P14079] interacts with 7 human partners:{Q9BQE4;O15553;P46695;Q9BZF9;Q9H0F6;Q13164;P0DJI8}

19810 Pathogen[ P03383] interacts with 6 human partners:{Q9H0F6;Q9BZF9;P01008;P84022;Q9BQE4;P26651}

19811 Pathogen[ P03410] interacts with 7 human partners:{P84022;P0DJI8;P26651;Q9BQE4;Q9BZF9;P46695;Q9H0F6}

19812 Pathogen[ P14075] interacts with 5 human partners:{Q9BQE4;P26651;Q9BZF9;P84022;Q9H0F6}

19813 Pathogen[ P0C206] interacts with 6 human partners:{P84022;P01008;P26651;Q9BQE4;Q9H0F6;Q9BZF9}

19814 Pathogen[ P03363] interacts with 4 human partners:{Q9BZF9;P84022;Q9H0F6;P26651}

19815 [Cluster 1802]GO:0022027+P biological\_process [name] interkinetic nuclear migration [def] "The movement of the nucleus of the ventricular zone cell between the apical and the basal zone surfaces. Mitosis occurs when the nucleus is near the apical surface, that is, the lumen of the ventricle." [GO\_REF

19816 Pathogen[ Q2Q067] interacts with 4 human partners:{O95359;O75410;Q86VS8;Q15154}

19817 Pathogen[ P0C214] interacts with 4 human partners:{Q15154;O95359;Q86VS8;O75410}

19818 Pathogen[ P03346] interacts with 5 human partners:{Q86VS8;O75410;Q15154;O95359;Q8N960}

19819 Pathogen[ Q85601] interacts with 4 human partners:{Q15154;Q86VS8;O75410;O95359}

19820 Pathogen[ P14079] interacts with 6 human partners:{O95359;Q9Y6A5;Q86VS8;Q8N960;O75410;Q15154}

19821 Pathogen[ P03383] interacts with 3 human partners:{O75410;Q15154;Q86VS8}

19822 Pathogen[ P03410] interacts with 6 human partners:{Q8N960;O95359;Q15154;Q86VS8;Q9Y6A5;O75410}

19823 Pathogen[ P14075] interacts with 3 human partners:{O75410;Q15154;Q86VS8}

19824 Pathogen[ P0C206] interacts with 6 human partners:{O95359;Q86VS8;O75410;Q9Y6A5;Q15154;Q8N960}

19825 Pathogen[ P03363] interacts with 5 human partners:{O75410;Q86VS8;O95359;Q15154;Q8N960}

19826 [Cluster 1803]GO:0002031+P biological\_process [name] G-protein coupled receptor internalization [def] "The process that results in the uptake of a G-protein coupled receptor into an endocytic vesicle." [PMID

19827 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13888}

19828 Pathogen[ P0C214] interacts with 1 human partners:{Q13888}

19829 Pathogen[ P03346] interacts with 1 human partners:{Q13888}

19830 Pathogen[ Q85601] interacts with 1 human partners:{Q13888}

19831 Pathogen[ P14079] interacts with 1 human partners:{Q13888}

19832 Pathogen[ P03383] interacts with 1 human partners:{Q13888}

19833 Pathogen[ P03410] interacts with 1 human partners:{Q13888}

19834 Pathogen[ P14075] interacts with 1 human partners:{Q13888}

19835 Pathogen[ P0C206] interacts with 1 human partners:{Q13888}

19836 Pathogen[ P03363] interacts with 1 human partners:{Q13888}

19837 [Cluster 1804]GO:0055093+P biological\_process [name] response to hyperoxia [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a stimulus indicating increased oxygen tension." [GOC

19838 Pathogen[ Q2Q067] interacts with 4 human partners:{P09917;P29474;P38936;Q12983}

19839 Pathogen[ P0C214] interacts with 5 human partners:{P29474;P09917;P05121;P38936;Q12983}

19840 Pathogen[ P03346] interacts with 4 human partners:{P29474;Q12983;P09917;P38936}

19841 Pathogen[ Q85601] interacts with 5 human partners:{P09917;P05121;P29474;Q12983;P38936}

19842 Pathogen[ P14079] interacts with 5 human partners:{P03928;P38936;P11686;Q12983;P09917}

19843 Pathogen[ P03383] interacts with 2 human partners:{P29474;Q12983}

19844 Pathogen[ P03410] interacts with 7 human partners:{P05121;Q12983;P29474;P38936;P11686;P03928;P09917}

19845 Pathogen[ P14075] interacts with 2 human partners:{P29474;Q12983}

19846 Pathogen[ P0C206] interacts with 5 human partners:{P09917;Q12983;P38936;P29474;P05121}

19847 Pathogen[ P03363] interacts with 1 human partners:{P29474}

19848 [Cluster 1805]GO:0016239+P biological\_process [name] positive regulation of macroautophagy [def] "Any process, such as recognition of nutrient depletion, that activates or increases the rate of macroautophagy to bring cytosolic macromolecules to the vacuole/lysosome for degradation." [GOC

19849 Pathogen[ Q2Q067] interacts with 4 human partners:{O00267;Q14457;Q9UIL1;Q9BTA9}

19850 Pathogen[ P0C214] interacts with 6 human partners:{Q14457;O00267;P68402;Q6PKG0;Q9UILL1;Q9BTA9}

19851 Pathogen[ P03346] interacts with 4 human partners:{Q9UILL1;Q14457;O00267;Q9BTA9}

19852 Pathogen[ Q85601] interacts with 4 human partners:{Q14457;Q9BTA9;O00267;Q9UILL1}

19853 Pathogen[ P14079] interacts with 5 human partners:{Q9BTA9;Q9UILL1;Q6PKG0;Q14457;O00267}

19854 Pathogen[ P03383] interacts with 4 human partners:{Q14457;Q9BTA9;O00267;Q9UILL1}

19855 Pathogen[ P03410] interacts with 5 human partners:{O00267;Q14457;Q6PKG0;Q9UILL1;Q9BTA9}

19856 Pathogen[ P14075] interacts with 4 human partners:{Q14457;Q9BTA9;Q9UILL1;O00267}

19857 Pathogen[ P0C206] interacts with 5 human partners:{Q9UILL1;Q14457;Q6PKG0;O00267;Q9BTA9}

19858 Pathogen[ P03363] interacts with 4 human partners:{Q14457;O00267;Q9UILL1;Q9BTA9}

19859 [Cluster 1806]GO:0010745+P biological\_process [name] negative regulation of macrophage derived foam cell differentiation [def] "Any process that decreases the rate, frequency or extent of macrophage derived foam cell differentiation. Macrophage derived foam cell differentiation is the process in which a macrophage acquires the specialized features of a foam cell. A foam cell is a type of cell containing lipids in small vacuoles and typically seen in atherosclerotic lesions, as well as other conditions." [GOC

19860 Pathogen[ Q2Q067] interacts with 2 human partners:{P55055;P25963}

19861 Pathogen[ P0C214] interacts with 1 human partners:{P25963}

19862 Pathogen[ P03346] interacts with 2 human partners:{P25963;P55055}

19863 Pathogen[ Q85601] interacts with 2 human partners:{P55055;P25963}

19864 Pathogen[ P14079] interacts with 1 human partners:{P55055}

19865 Pathogen[ P03383] interacts with 1 human partners:{P25963}

19866 Pathogen[ P03410] interacts with 1 human partners:{P25963}

19867 Pathogen[ P14075] interacts with 1 human partners:{P25963}

19868 Pathogen[ P0C206] interacts with 2 human partners:{P25963;P55055}

19869 Pathogen[ P03363] interacts with 1 human partners:{P25963}

19870 [Cluster 1807]GO:0010243+P biological\_process [name] response to organic nitrogen [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an organic nitrogen stimulus. An organic nitrogen compound is formally a compound containing at least one carbon-nitrogen bond." [CHEBI

19871 Pathogen[ Q2Q067] interacts with 13 human partners:{P24385;Q96ST3;O15350;P51959;P55212;P09972;P24864;P61244;P38936;P49721;O15205;Q15797;P78543}

19872 Pathogen[ P0C214] interacts with 14 human partners:{P61244;P78543;P55212;P51959;O15350;P40261;P24385;P38936;O15205;P09972;P24864;Q96ST3;Q15797;P49721}

19873 Pathogen[ P03346] interacts with 14 human partners:{Q96ST3;P09972;P24385;Q15797;P49721;P24864;O15350;P55212;O15205;P61244;P51959;P38936;P78543;P40261}

19874 Pathogen[ Q85601] interacts with 13 human partners:{P24385;Q15797;P51959;P78543;P09972;P49721;O15205;P61244;O15350;P38936;P55212;P24864;Q96ST3}

19875 Pathogen[ P14079] interacts with 14 human partners:{P51959;P78543;P24864;Q96ST3;P09972;Q15797;O15350;P55212;P38936;O15205;P49721;P10620;Q16878;P61244}

19876 Pathogen[ P03383] interacts with 12 human partners:{P55212;P09972;P49721;P24385;Q15797;P78543;P51959;O15350;Q96ST3;P24864;P61244;O15205}

19877 Pathogen[ P03410] interacts with 13 human partners:{O15205;P49721;Q96ST3;P61244;P24385;P09972;P38936;P51959;Q15797;P78543;O15350;P55212;P24864}

19878 Pathogen[ P14075] interacts with 11 human partners:{Q96ST3;P51959;P55212;P61244;P49721;O15350;P78543;P09972;P24385;O15205;P24864}

19879 Pathogen[ P0C206] interacts with 13 human partners:{Q96ST3;P55212;O15205;P51959;P38936;P61244;Q15797;P09972;O15350;P49721;P24864;P78543;P24385}

19880 Pathogen[ P03363] interacts with 10 human partners:{O15205;P24864;P09972;P78543;Q15797;P61244;P55212;Q96ST3;P24385;P51959}

19881 [Cluster 1808]GO:0035994+P biological\_process [name] response to muscle stretch [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a myofibril being extended beyond its slack length." [GOC

19882 Pathogen[ Q2Q067] interacts with 1 human partners:{Q15327}

19883 Pathogen[ P0C214] interacts with 1 human partners:{Q15327}

19884 Pathogen[ P03346] interacts with 1 human partners:{Q15327}

19885 Pathogen[ Q85601] interacts with 1 human partners:{Q15327}

19886 Pathogen[ P14079] interacts with 1 human partners:{Q15327}

19887 Pathogen[ P03383] interacts with 1 human partners:{Q15327}

19888 Pathogen[ P03410] interacts with 1 human partners:{Q15327}

19889 Pathogen[ P14075] interacts with 1 human partners:{Q15327}

19890 Pathogen[ P0C206] interacts with 1 human partners:{Q15327}  
19891 Pathogen[ P03363] interacts with 1 human partners:{Q15327}  
19892 [Cluster 1809]GO:0086069+P  
19893 Pathogen[ Q2Q067] interacts with 1 human partners:{P15924}  
19894 Pathogen[ P0C214] interacts with 1 human partners:{P15924}  
19895 Pathogen[ P03346] interacts with 1 human partners:{P15924}  
19896 Pathogen[ Q85601] interacts with 1 human partners:{P15924}  
19897 Pathogen[ P14079] interacts with 1 human partners:{P15924}  
19898 Pathogen[ P03383] interacts with 1 human partners:{P15924}  
19899 Pathogen[ P03410] interacts with 1 human partners:{P15924}  
19900 Pathogen[ P14075] interacts with 1 human partners:{P15924}  
19901 Pathogen[ P0C206] interacts with 1 human partners:{P15924}  
19902 Pathogen[ P03363] interacts with 1 human partners:{P15924}  
19903 [Cluster 1810]GO:0031113+P biological\_process [name] regulation of microtubule polymerization [def] "Any process that modulates the frequency, rate or extent of microtubule polymerization." [GOC  
19904 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9P270}  
19905 Pathogen[ P0C214] interacts with 2 human partners:{Q9P270;P36404}  
19906 Pathogen[ P03346] interacts with 2 human partners:{P36404;Q9P270}  
19907 Pathogen[ Q85601] interacts with 1 human partners:{Q9P270}  
19908 Pathogen[ P14079] interacts with 2 human partners:{Q9P270;P10636}  
19909 Pathogen[ P03383] interacts with 1 human partners:{Q9P270}  
19910 Pathogen[ P03410] interacts with 2 human partners:{P10636;Q9P270}  
19911 Pathogen[ P14075] interacts with 1 human partners:{Q9P270}  
19912 Pathogen[ P0C206] interacts with 2 human partners:{P10636;Q9P270}  
19913 Pathogen[ P03363] interacts with 1 human partners:{Q9P270}  
19914 [Cluster 1811]GO:0006284+P biological\_process [name] base-excision repair [def] "In base excision repair, an altered base is removed by a DNA glycosylase enzyme, followed by excision of the resulting sugar phosphate. The small gap left in the DNA helix is filled in by the sequential action of DNA polymerase and DNA ligase." [ISBN  
19915 Pathogen[ Q2Q067] interacts with 23 human partners:{Q15054;Q96LA8;O95243;P18887;Q9UIF7;Q969S2;P49005;Q7Z6Z7;P22674;P27695;P12004;P06746;P29372;P09874;Q9HCU8;O15527;Q03468;P39748;P78549;Q13569;P17096;P13051;Q53HV7}  
19916 Pathogen[ P0C214] interacts with 21 human partners:{O95243;P27695;P06746;Q53HV7;P17096;P49005;Q9HCU8;P18887;Q9UIF7;P22674;P39748;Q15054;Q7Z6Z7;P78549;P29372;O15527;Q13569;Q03468;P13051;P09874;Q96LA8}  
19917 Pathogen[ P03346] interacts with 24 human partners:{P12004;Q9HCU8;Q9UIF7;P49005;P17096;Q969S2;Q53HV7;Q03468;P13051;P29372;P09874;P78549;P18887;Q13569;Q9UGN5;O95243;P27695;P39748;O15527;P06746;Q7Z6Z7;P22674;Q96LA8;Q15054}  
19918 Pathogen[ Q85601] interacts with 25 human partners:{P22674;O15527;P09874;P17096;P18887;Q969S2;P13051;O95243;P49005;Q15054;Q96FI4;Q03468;Q53HV7;Q13569;Q9HCU8;Q9UIF7;Q9UGN5;Q7Z6Z7;P06746;P12004;P39748;P78549;P27695;Q96LA8;P29372}  
19919 Pathogen[ P14079] interacts with 25 human partners:{Q8TAT5;P09874;Q9UIF7;Q96LA8;Q9UGN5;P49005;P17096;P29372;Q9HCU8;O15527;P78549;Q15054;O95243;P18887;Q969S2;Q96FI4;P27695;Q53HV7;P06746;Q03468;P12004;Q13569;P13051;P22674;P39748}  
19920 Pathogen[ P03383] interacts with 17 human partners:{P06746;P17096;Q9HCU8;O15527;Q53HV7;P22674;P49005;P29372;O95243;Q03468;P09874;Q15054;Q13569;P18887;P27695;P13051;Q96LA8}  
19921 Pathogen[ P03410] interacts with 25 human partners:{P18887;Q96FI4;Q96LA8;P22674;P17096;P06746;P39748;Q03468;Q8TAT5;P78549;Q53HV7;O95243;O15527;Q9UGN5;Q13569;Q15054;P09874;P27695;Q969S2;P49005;P13051;P12004;P29372;Q9UIF7;Q9HCU8}  
19922 Pathogen[ P14075] interacts with 18 human partners:{P13051;P27695;O15527;Q53HV7;P17096;P06746;Q9UIF7;P49005;Q03468;P22674;Q96LA8;Q15054;O95243;Q9HCU8;Q13569;P29372;P09874;P18887}  
19923 Pathogen[ P0C206] interacts with 27 human partners:{P27695;O15527;P09874;Q9HCU8;Q96LA8;Q03468;P06746;P49005;Q53HV7;Q13569;Q15054;Q9UGN5;Q8TAT5;P49916;Q96FI4;P17096;Q969S2;Q7Z6Z7;P39748;P13051;P29372;O95243;P22674;Q9UIF7;P18887;P12004;P78549}  
19924 Pathogen[ P03363] interacts with 21 human partners:{P18887;Q9UGN5;O15527;Q96LA8;Q96FI4;P13051;P49005;Q7Z6Z7;P29372;Q9HCU8;P17096;P06746;Q9UIF7;O95243;Q13569;Q03468;Q15054;P09874;P22674;Q969S2;Q53HV7}  
19925 [Cluster 1812]GO:0017183+P biological\_process [name] peptidyl-diphthamide biosynthetic process from peptidyl-histidine [def] "The modification of peptidyl-histidine to 2'-(3-carboxamido-3-(trimethylammonio)propyl)-L-histidine, known as diphthamide, found in translation elongation factor eEF-2." [RESID  
19926 Pathogen[ Q2Q067] interacts with 3 human partners:{Q96FX2;Q9BQC3;Q9BZG8}  
19927 Pathogen[ P0C214] interacts with 3 human partners:{Q96FX2;Q9BQC3;Q9BZG8}  
19928 Pathogen[ P03346] interacts with 3 human partners:{Q9BQC3;Q96FX2;Q9BZG8}  
19929 Pathogen[ Q85601] interacts with 3 human partners:{Q9BQC3;Q96FX2;Q9BZG8}  
19930 Pathogen[ P14079] interacts with 3 human partners:{Q96FX2;Q9BQC3;Q9BZG8}  
19931 Pathogen[ P03383] interacts with 3 human partners:{Q96FX2;Q9BQC3;Q9BZG8}

19932 Pathogen[ P03410] interacts with 3 human partners:{Q96FX2;Q9BQC3;Q9BZG8}  
19933 Pathogen[ P14075] interacts with 3 human partners:{Q9BZG8;Q9BQC3;Q96FX2}  
19934 Pathogen[ P0C206] interacts with 3 human partners:{Q9BQC3;Q9BZG8;Q96FX2}  
19935 Pathogen[ P03363] interacts with 3 human partners:{Q9BQC3;Q96FX2;Q9BZG8}  
19936 [Cluster 1813]GO:0040001+P biological\_process [name] establishment of mitotic spindle  
localization [def] "The cell cycle process in which the directed movement of the  
mitotic spindle to a specific location in the cell occurs." [GOC  
19937 Pathogen[ Q2Q067] interacts with 2 human partners:{Q14674;Q9BXS6}  
19938 Pathogen[ P0C214] interacts with 2 human partners:{Q9BXS6;Q14674}  
19939 Pathogen[ P03346] interacts with 2 human partners:{Q9BXS6;Q14674}  
19940 Pathogen[ Q85601] interacts with 2 human partners:{Q9BXS6;Q14674}  
19941 Pathogen[ P14079] interacts with 2 human partners:{Q14674;Q9BXS6}  
19942 Pathogen[ P03383] interacts with 2 human partners:{Q9BXS6;Q14674}  
19943 Pathogen[ P03410] interacts with 2 human partners:{Q9BXS6;Q14674}  
19944 Pathogen[ P14075] interacts with 2 human partners:{Q9BXS6;Q14674}  
19945 Pathogen[ P0C206] interacts with 2 human partners:{Q14674;Q9BXS6}  
19946 Pathogen[ P03363] interacts with 2 human partners:{Q9BXS6;Q14674}  
19947 [Cluster 1814]GO:0007263+P biological\_process [name] nitric oxide mediated signal  
transduction [def] "A series of molecular signals mediated by the detection of nitric  
oxide (NO)." [GOC  
19948 Pathogen[ Q2Q067] interacts with 3 human partners:{Q13562;Q8NHW3;Q95865}  
19949 Pathogen[ P0C214] interacts with 2 human partners:{Q8NHW3;Q95865}  
19950 Pathogen[ P03346] interacts with 3 human partners:{Q95865;Q13562;Q8NHW3}  
19951 Pathogen[ Q85601] interacts with 3 human partners:{Q13562;Q8NHW3;Q95865}  
19952 Pathogen[ P14079] interacts with 2 human partners:{Q8NHW3;Q95865}  
19953 Pathogen[ P03383] interacts with 1 human partners:{Q95865}  
19954 Pathogen[ P03410] interacts with 2 human partners:{Q95865;Q8NHW3}  
19955 Pathogen[ P14075] interacts with 1 human partners:{Q95865}  
19956 Pathogen[ P0C206] interacts with 3 human partners:{Q95865;Q8NHW3;Q13562}  
19957 Pathogen[ P03363] interacts with 2 human partners:{Q8NHW3;Q95865}  
19958 [Cluster 1815]GO:0045351+P biological\_process [name] type I interferon biosynthetic  
process [def] "The chemical reactions and pathways resulting in the formation of any  
type I interferon. Type I interferons include the interferon-alpha, beta, delta,  
epsilon, zeta, kappa, tau, and omega gene families." [GOC  
19959 Pathogen[ Q2Q067] interacts with 3 human partners:{Q92985;Q00978;Q14653}  
19960 Pathogen[ P0C214] interacts with 3 human partners:{Q00978;Q92985;Q14653}  
19961 Pathogen[ P03346] interacts with 3 human partners:{Q00978;Q14653;Q92985}  
19962 Pathogen[ Q85601] interacts with 3 human partners:{Q00978;Q14653;Q92985}  
19963 Pathogen[ P14079] interacts with 4 human partners:{Q14653;Q92985;Q00978;Q99836}  
19964 Pathogen[ P03383] interacts with 3 human partners:{Q14653;Q00978;Q92985}  
19965 Pathogen[ P03410] interacts with 3 human partners:{Q14653;Q92985;Q00978}  
19966 Pathogen[ P14075] interacts with 3 human partners:{Q00978;Q14653;Q92985}  
19967 Pathogen[ P0C206] interacts with 3 human partners:{Q92985;Q00978;Q14653}  
19968 Pathogen[ P03363] interacts with 3 human partners:{Q14653;Q92985;Q00978}  
19969 [Cluster 1816]GO:0044281+P biological\_process [name] small molecule metabolic process  
[def] "The chemical reactions and pathways involving small molecules, any monomeric  
molecule of small relative molecular mass." [GOC  
19970 Pathogen[ Q2Q067] interacts with 213 human  
partners:{Q9BU02;O14734;Q96EE3;Q99460;P22392;O75832;P48556;P10746;P31749;P52948;P357  
54;P40306;Q43920;Q12769;Q96NU7;P55036;P07741;Q96HA1;P07195;Q9H5J4;P49790;O00231;O002  
33;P49792;P31040;P13929;P51665;O75694;Q6XQN6;Q15596;P30793;P28072;P10515;P22033;Q9HA  
B8;P61457;P49419;P15121;P56181;P33316;P78406;P19367;Q9NRN7;P38117;O75489;O95336;P050  
62;P30084;Q9HAN9;P62140;P07954;A5LHX3;Q9NZI5;O00204;O15379;Q99567;Q8N1F7;Q14192;P079  
00;Q13200;P29966;Q96ST3;P13073;Q96GX9;P25787;P37837;Q06323;O00401;Q7Z3B4;Q8NHF4;Q63H  
M1;O75182;P22557;P35573;P21953;P13196;P12270;P60174;Q9BV57;P36871;Q96000;P28065;P111  
66;P32189;O14818;P07902;Q9BW60;O95178;Q16851;Q96G23;Q9UMX2;Q9GZR5;Q99743;Q9BYK8;Q9UG  
56;Q14997;Q9BW27;Q96G03;P31350;P60900;Q8TEM1;P46976;Q9UL46;P34896;P61289;O43678;Q8WY  
R1;P68871;Q92539;P09972;P54840;P36873;Q92562;P28062;Q9BVL2;P15559;Q7LG56;P09467;P186  
69;Q9BV20;Q16719;P29474;Q9UNM6;P25788;P62136;P13807;Q92530;O75251;Q9UKX7;O75306;Q153  
27;P04406;P25786;Q96RS0;Q9NRG9;O60907;P99999;P10599;Q8NHF3;Q9P0J0;P40925;P21912;Q147  
39;Q9P2R7;P69905;Q16401;O96007;Q3L8U1;P15259;P37198;P62879;O00232;Q92621;Q96RU7;Q9Y6  
97;A1L3X0;P28074;P25789;O15504;Q9HB03;Q14686;P57740;P06744;P04818;Q9BZK7;Q9UI32;Q9Y6  
18;P20618;O94925;O14556;P40926;P00338;P27986;Q9NP71;P28070;Q8WUM0;Q92793;P28066;Q033  
93;P14324;Q99436;Q8TAA3;P30047;Q9UBX3;P06132;O43242;Q8WWR8;Q6STE5;P49721;P14672;Q5UE  
93;P49720;P06733;P51580;P27469;P21673;P11172;Q75376;P35658;P49247;P08397;Q8NHF5;Q951  
90;P32929;Q16836;Q86X55;O43708;O95571;Q5SRE5;Q14693;P24539;Q14397;Q9Y314}  
19971 Pathogen[ P0C214] interacts with 341 human  
partners:{Q8WWR8;P27469;P50440;P06132;Q16795;Q04446;P29474;Q14997;Q9HA82;P51665;Q96P  
26;P30084;Q96T66;P35754;O75608;P49419;O75306;Q13907;Q14739;P09417;Q15327;Q9Y617;Q9BU  
02;P52209;Q9NXB9;P25789;Q05932;O75874;O43678;P55036;P11413;P29966;Q9NVH6;P22695;Q950  
45;Q99643;Q8N5C5;P04818;Q8N335;Q8NHF5;P31350;P62140;P28062;P23919;P00480;A5LHX3;Q9HA  
N9;P35558;Q8TE04;P11177;Q9HAB8;P56556;P49902;P28065;O96033;P15259;O75390;Q9BXS1;P533  
96;P07741;P33316;P28331;Q8TEM1;O43920;P12694;P42898;O14818;O60907;P07954;Q9H227;Q9BV  
57;P78406;O95299;P17568;P57740;Q95567;O15056;O43242;Q99743;Q92793;P51580;P40261;P614  
57;P29401;Q9NZI5;Q9GZR5;Q8N1F7;O75694;P12277;P11172;Q3L8U1;P48735;Q8TCD5;Q6STE5;Q96G  
X9;P69905;Q96EE3;Q16613;Q6XQN6;P48556;Q9UI32;P49792;P35270;Q9UKX7;P40306;P40939;Q132

00;Q9Y3R4;Q14686;O95396;P40926;P32189;Q9NPB8;O75330;P22557;O14556;P35573;P13196;P36542;O00232;P46976;Q16718;Q13057;Q92562;P05062;Q9HB03;P32929;O95571;P11166;P54368;O14561;Q99798;Q9BYK8;Q9P2R7;O75223;Q9UBX3;O60825;Q9NYP7;P10746;P08397;P23786;P15121;Q99460;O95298;P28066;O75832;P11168;P00374;P13929;Q03393;P30793;Q96G03;P37837;P09467;P49790;Q8IVI9;Q96AT9;P50213;Q16881;P37198;P22033;P36871;P68871;Q9BW27;Q16831;P14618;Q9Y697;P99999;P12074;Q92539;Q08AM6;A1L3X0;P249720;P28074;O43837;P21953;P43896;Q8WYR1;Q9P0J0;P09104;Q16851;O14832;P52788;Q9UL46;Q63HML;P9BQK8;Q9NWM0;O15488;O95336;Q9NRG9;P24539;Q9BZQ4;P35658;Q93100;Q9UH92;Q96G23;P25788;P62136;O15382;P19623;P19367;O75376;P30043;Q9UNM6;Q5UE93;Q8NMFH3;O00231;Q14192;O00204;Q9NRF8;P14324;Q06323;Q9UMX2;Q9NP71;O15379;P25786;P06733;Q96RS0;Q9UHY7;P13073;Q6NVY1;P38117;P62879;Q9UG56;P23921;P28072;P09972;Q14397;Q9P0J1;Q8TAA3;O96007;P09622;Q9BZ23;P54687;O96000;Q96RU7;O95182;P07327;Q99436;Q13126;O75489;Q16822;O94925;O15504;P27902;P54840;P25787;O14521;P36873;Q9BZK7;Q96I99;O14734;Q13615;Q96ST3;P23526;Q96NU7;P10599;O75251;Q9UI09;Q9BW60;O00401;O95190;Q15274;P12270;P16118;Q86X55;Q16698;P35998;P60900;P04424;P22392;P60174;P21673;Q8NMFH4;P35520;Q15596;O43708;O00233;Q9BVL2;P36551;Q9NRN7;P17812;P30047;Q7LG56;P22830;Q8N159;Q16762;P48163;P21912;P10515;Q5SRE5;P14672;Q9Y618;Q8NFF5;P27986;P43490;Q96PE7;Q92530;P46020;O00757;Q7Z3B4;Q9Y2T3;P13807;P31939;P15559;Q15008;P04406;P56181;O95178;P49247;P11586;P00558;Q9P2J9;Q8WUM0;P28070;P13804;P52948;Q92621;P31749;P20618;Q06520;P07195;P36957;P51553;Q12769;Q16719;P49721;Q16401;P30566;Q9H0P0;O75182;P17980;Q9BV20;Q14693;Q16773;Q6IB77;P21695;P16278;Q9NZL9;Q9Y314;Q96HA1}

19972

Pathogen[ P03346] interacts with 221 human

partners: {O75390;Q8TEM1;Q9BW60;P62136;O00204;P25787;Q96ST3;P09972;Q96PE7;P28070;Q06520;Q8NMFH4;O75608;Q8WUM0;Q14739;P31040;P56181;P25789;P55036;Q15788;P13807;P12270;O60907;P04406;P07900;Q9NRN7;P49247;Q12769;Q99460;Q96EE3;Q99567;P29474;P23526;Q9UL46;Q16836;Q8WYR1;O75489;Q9BV20;P07148;Q8IVI9;Q9UKX7;P13929;O15379;P28072;Q9UBX3;O75694;P25788;O95336;P28074;P27469;P49721;Q9NRG9;Q9NZL9;Q9BVS7;P78406;P57740;O43678;O95178;O14818;P51580;Q99436;Q9UMX2;Q9BVL2;Q8NCF5;Q8N1F7;Q16401;Q15327;A5LHX3;P19367;P15121;Q63HML;P10746;P23786;P60174;P28062;Q96NU7;Q9NZI5;P21673;Q8NMFH5;P15559;Q9Y697;P09467;P69905;Q92562;P22557;P35573;P37198;P20618;Q8NMFH3;P35658;P13196;Q9HAN9;O00232;O75330;P46976;P36871;Q03393;O75182;P62879;P30047;P21912;P06733;O15056;Q6XQN6;P37837;Q5SRE5;O75832;O00233;Q9P0J1;P16278;Q92621;Q9NP71;P99999;Q9BW27;P13550;P18669;P13150;P49419;Q7LG56;O14556;Q16851;P24539;Q92539;P31749;Q15596;O43920;P13073;Q9H5J4;P49720;P28065;Q14192;P36873;Q6STE5;Q96G23;P60900;P51161;P32929;P14324;P40926;P25786;O00231;Q96RS0;Q9HB03;P11166;Q9UHY7;P38117;Q16719;P06132;P22392;O75376;O96007;P61289;P00338;O43708;P29966;P28066;Q9UNM6;Q96RU7;P68871;Q14397;Q96G03;O94925;Q8TAA3;Q9BU02;P54840;P07195;O75251;O14734;Q9BZK7;P35754;P15259;P32189;Q8WWR8;P10599;Q14997;P49790;Q13200;Q86X55;P48556;P06744;Q9UG56;Q5UE93;O96000;P05062;P62140;O75306;P51665;P61457;Q9BYK8;P11172;P07741;Q96HA1;Q9UH92;Q92793;Q9P0J0;P40925;P07954;Q06323;Q3L8U1;Q9HAB8;P10515;O00401;Q9Y618;P14672;Q92530;Q7Z3B4;O43242;Q99743;P40261;Q96GX9;P40306;O95571;P27986;O95190;O15504;P30084;P49792;Q14693;Q14686;P33316;P52948;Q9Y314}

19973

Pathogen[ Q85601] interacts with 215 human

partners: {Q8TEM1;P28066;O00401;Q9UNM6;O75182;P60900;Q5SRE5;P69905;Q9NRN7;P60174;P55036;Q9P0J0;P13807;P62879;P11168;O94925;Q08AM6;P31749;P99999;P24539;Q8NMFH4;O43708;Q9UG56;Q8NMFH3;Q86X55;A1L3X0;P25787;Q96EE3;Q3L8U1;Q6STE5;P61289;Q12769;P00480;P51161;Q9UBX3;O75306;P25788;O95336;O60907;Q16719;P10746;Q9BU02;P78406;P57740;O75330;Q9NRG9;O75832;P18669;Q9Y697;P21912;P11172;O60825;Q8WUM0;Q8N1F7;P37837;Q16613;Q9Y618;P06733;P33316;O00757;P06744;P21673;O43678;Q92562;P56181;P27469;P13196;P21953;P12270;P05062;Q99743;Q15596;P32189;P31350;P49247;Q9HAN9;Q9NP71;O75694;Q96GX9;Q9BV57;Q9P2R7;P16118;P15259;P30793;O15504;P30047;P27986;Q9UH92;P07954;Q6XQN6;O14734;P25789;Q96HM1;O00233;O96000;Q14686;Q9UMX2;Q16851;P10599;P20618;Q9BW27;P46976;Q96G23;Q96G23;P11166;P35573;O14556;O95045;Q92621;P40306;P34896;P14618;O43920;P62136;Q9H5J4;P13929;P49720;P36873;P36871;Q96G23;P28062;P09972;Q14192;P49721;O95190;P52948;P14324;Q8IVI9;P25786;Q9UKX7;Q96RS0;P31040;Q15327;P22033;Q9BYK8;O75376;Q9HB03;P28072;P06132;Q8NMFH5;P22392;P15121;Q13200;O96007;P28065;P07900;Q6IB77;P07741;P29966;Q99436;P29474;O00204;Q96RU7;P28070;P09467;P35658;P68871;Q14397;Q04446;P40925;Q8TAA3;Q9UL46;Q99460;O00231;P07195;Q99567;Q9BZK7;P35754;O15379;P07902;Q9UHY7;Q16836;P08397;Q8WYR1;P23526;P48556;P54840;Q9GZR5;P62140;P28074;P49792;Q9H0P0;Q92530;P04406;Q9BVL2;Q96HA1;Q92793;A5LHX3;Q9BV20;Q9UI32;Q06323;P10515;O95571;P14672;Q5UE93;O14818;Q7Z3B4;P00338;Q9NZI5;Q13907;Q92539;P30084;P49790;O15382;Q96G03;P61457;P40926;Q16401;P49419;Q14739;Q14693;P32929;P19367;Q96ST3;Q9Y314}

19974

Pathogen[ P14079] interacts with 354 human

partners: {O94923;Q8NMFH5;P01215;Q9NY59;P56181;P22695;P28065;O15379;Q99436;P00374;P15259;O75192;P17707;P36542;Q8TE04;O43674;P48775;Q9BXS1;O75223;Q8N159;P62333;O43677;Q9BW27;Q9H0P0;Q99743;Q96HA1;Q92562;O43181;P16278;Q9BQK8;O14841;P48556;P42357;O95169;P27469;Q96RS0;P21953;P13196;O95544;P56134;Q9BYK8;Q9NPB8;Q9BZK7;P56556;P07954;Q8NFF5;Q6STE5;P13073;Q96KP4;Q15596;O43505;Q16851;Q14693;A1L3X0;O95139;P25705;P12074;P00338;Q14192;P22234;Q96P26;Q8TCD5;P17812;Q9NXE4;P31939;P36873;P57740;Q8N1F7;Q9Y617;Q96ST3;P40306;Q96NU7;Q13907;P55036;P35658;Q9Y314;P52209;Q9BV20;Q92793;P28074;O00232;P61457;P01225;P14672;Q9UMX2;P24588;P13807;O96000;O95167;Q63HML;P54802;O75306;P00395;Q16831;Q92621;P43490;P00403;Q96N76;Q8WYR1;P17568;P35475;P56385;P49247;P10606;Q8TEM1;Q93099;O60907;P49720;O00487;P09972;O95190;Q93100;P62136;P11172;Q9UDW1;P25787;P22557;P29401;P32189;O75832;Q9HA82;P14927;Q9NVH6;P30084;O43708;P06744;Q14739;P13804;Q86Y39;A5LHX3;P69905;P10746;Q95954;O95182;Q32NB8;O00233;Q9P2R7;P31350;P15559;P35998;P07919;Q9NZL9;P14324;P11166;Q8TDX5;Q9Y2T3;O75608;P06733;P30793;P33316;P21289;Q96NT5;P61289;Q9HB03;Q92539;Q7LG56;P06280;P51665;O14949;Q16613;Q9UKX7;P07195;P20618;P14854;Q9NRF8;Q9BVL2;O96007;Q8TA A3;O15504;Q9UL01;P20674;P68871;P27544;Q9UG56;Q8IVI9;O95571;O96033;P06132;P54368;P469



76;P23919;Q8WUM0;Q14997;P54803;P38117;P35754;P12270;Q9BZ23;O94925;Q14353;P03928;P28062;P60900;P22392;Q16719;P31040;Q9BZQ4;O14548;P29966;Q6XQN6;O43676;Q96G23;O43678;Q6IB77;O14832;P08397;Q99567;Q13057;Q9UNM6;P51970;O14734;Q96GX9;O95178;O75251;O14561;P62140;Q9UI09;Q99460;P35573;Q9Y697;P00156;Q13510;O95299;Q8NMFH3;Q9NRN7;P07900;O95045;Q15788;Q96EE3;O95292;P16930;P09669;P37198;O14818;P22033;Q9P0J0;Q96PE7;Q9NZI5;P49721;Q9BU02;P32929;Q9UI32;Q8NBK3;P22830;Q15327;Q92530;P49790;O95336;P49902;Q8WWR8;P10620;Q9NZ20;Q9UH92;Q9Y3R4;Q9HAN9;P00480;O75964;Q96RU7;Q6IA69;Q16762;P49915;O75489;P13929;Q96PE3;Q9BXI3;Q8NMFH4;P53602;P10515;Q99541;P78406;Q06323;P03923;P10599;P62191;Q7Z3B4;Q16878;O75182;P00915;O75376;Q16718;P19623;P03897;Q8NMCN5;O15067;P56381;P15954;P18669;Q9GZR5;O14521;O43920;Q14397;O15239;P07902;P21695;P23526;Q15008;Q96G03;P43686;Q96CD2;O43242;Q03393;P25788;P09467;O00231;P28066;Q9UL46;P04424;O15382;O75330;Q12769;Q9BW60;P36551;P40925;P50440;P99999;P54840;P24539;P21673;Q15274;P36871;O00483;P51580;Q5SRE5;P04818;Q9NRG9;Q9NP71;O75694;Q5UE93;P03901;P03886;Q16401;Q05932;Q9BV57;Q14686;P17405;P17980;O15327;P07741;Q9H5J4;P30047;Q9NVS9;P28072;P46020;O15488;Q9HAB8;P52948;P34896;Q3L8U1;O95298;Q16836;O00401;P42898;P04406;P37837;P21912}

19975 Pathogen[ P03383] interacts with 183 human

partners: {Q9Y618;Q9BVL2;Q96EE3;O15504;Q8WUM0;P13073;P27986;O75182;P62140;P62879;Q92621;P49792;Q8NMFH4;Q9UH92;Q96G03;P55036;O94925;P29474;P40926;O75251;P27469;P25789;P60900;Q15596;O75376;Q9BU02;P12270;P19367;P00338;Q9BW60;P52948;P07902;P31749;Q9GZR5;P31040;O60907;P34896;O96000;P40306;P78406;P57740;O00233;O43678;Q8NMFH5;Q9H5J4;Q86X55;O43920;Q16836;P18669;Q14686;Q6STE5;O75489;Q9P2R7;P22392;P69905;P13807;P09467;P09972;Q8N1F7;P40925;Q63HM1;P68871;P49721;Q06323;Q16613;P37837;P35573;Q14997;P10599;Q9NRN7;P49247;Q8TEM1;O14734;P07900;P61457;P20618;O75306;P31350;Q9Y697;Q9NP71;O95178;Q12769;Q9BV57;P36873;P11168;P62136;Q99567;Q16719;Q96GX9;O75832;O00401;Q14397;Q16822;Q16851;Q9HAN9;P06744;Q9BW27;P46976;P06132;O14556;P07195;Q8N159;Q14192;A1L3X0;Q9UL46;Q9HB03;O95190;Q9UNM6;P04406;P29966;P14324;O15379;P25786;Q99460;Q96RS0;P99999;P22033;P28072;Q13200;O96007;Q9BZ23;P28065;P07741;Q5SRE5;P28066;Q96RU7;P35658;Q9BV20;Q3L8U1;Q15327;Q16401;P10515;O00231;Q96HA1;Q9BZK7;Q9NRG9;P32189;Q8WWR8;P11169;P08397;Q8WYR1;Q5UE93;P54840;P33316;Q96ST3;P28074;Q92530;P49720;Q8TAA3;P61289;Q9NZI5;P37198;Q9UKX7;P01215;P11172;P28062;Q9P0J0;Q9HAB8;O95571;P14672;P06733;P48556;O14818;Q7Z3B4;P56181;P30047;P24539;Q99436;Q92539;P21673;Q9BYK8;P49790;O75694;P15259;P28070;P49419;Q92793;Q8NMFH3;P25787;P22732;Q14693;P25788;Q9Y314}

19976 Pathogen[ P03410] interacts with 369 human

partners: {P15559;O75192;Q99567;A1L3X0;P54803;Q14397;Q99743;Q9BQK8;O95168;Q92562;O43674;P46976;O95292;Q9P2R7;Q7Z3B4;P28070;Q9BW27;P53602;O95045;P30047;Q15274;Q96P26;P30084;Q16822;P27986;P56556;P55036;Q96RS0;P22732;O75330;Q96PE3;P10599;P31350;P51161;Q9BU02;Q5UE93;P17568;O14556;Q9GZR5;Q14739;Q14353;P13804;P06744;Q16851;P08397;P35754;Q8WYR1;P49915;P37837;P36871;O15327;Q8NMF5;Q8TE04;Q9UKX7;O95178;P25786;P36542;Q9NVH6;P07741;Q15008;P11166;Q16401;O75380;Q8N159;O43678;P54840;Q9NRF8;P25705;Q9H5J4;Q13057;Q8NMFH4;O75251;P17812;O14548;Q96PE7;P15954;P60900;P16118;P46020;O95299;Q14997;Q14686;P51970;P35998;O43920;Q9UI09;Q99460;Q9BYK8;Q16831;P00374;Q5SRE5;P54802;P05141;O96000;Q6IB77;P52948;Q16719;O00233;O15504;P32929;P07902;O95954;P11168;P04424;Q04446;P62136;P06733;O00232;O75182;P12694;Q8IVI9;P07919;O00401;P35573;Q86X55;P16278;Q9NZI5;P20674;O75694;Q8TAA3;O00204;P11172;P31749;P78406;P48556;P49721;O95167;O95190;Q6NVY1;P56385;P07900;P27544;P21953;P06132;P55157;Q9Y697;O75376;O15239;P01215;Q15327;Q96HA1;P30793;P19623;Q96NU7;Q6XQN6;A5LHX3;P05062;P52788;Q9Y617;Q9Y6M9;P38117;P23786;P09467;Q9UBX3;Q96ST3;P07195;Q99436;P36551;O94925;Q9BV20;O00757;Q9NXC4;Q96G23;Q14693;P23919;Q8N1F7;P13073;O14841;P22234;P43490;O43708;P56381;Q9Y2T3;P40306;P52209;Q93099;P10746;P33316;Q06323;P00480;P22695;Q93100;P22557;O95571;Q9BXI3;O14734;Q9NPB8;Q92793;Q13510;P29474;Q63HM1;Q8TDX5;Q13200;P49790;P48775;P09972;P03886;P25787;Q08AM6;O00483;P68871;P28066;P12270;O75438;Q9UDW1;P62140;Q96N76;P56181;P35658;Q9HA82;O75608;P04818;P27469;P00156;Q16762;P07954;Q9BW60;O14561;P14927;O96007;P00338;Q8NMFH5;O15382;O15379;P22830;Q96CD2;Q16613;P30566;P28062;Q8TEM1;P31040;Q9NP71;P03928;P51665;P13807;O15067;P49419;P55809;O75489;P24539;Q42898;Q86Y39;P15259;O14818;P36873;Q96EE3;P31939;P21912;Q9NRN7;O14832;P21673;Q9NZ20;Q96GX9;O75964;P04406;Q9BZ23;P99999;P23526;P18669;O00231;O15488;Q96G03;Q9UNM6;P09669;P54368;Q16836;Q9HAN9;Q15596;Q8TCD5;Q9NVS9;Q96RU7;Q99643;P25789;P49720;P03897;O43677;P13929;P40926;O96033;Q8NMCN5;O95169;Q3L8U1;Q9HB03;Q8WUM0;Q9H0P0;O43181;O14521;Q16718;Q9BZK7;O75306;Q13907;P00403;P28072;O43676;O14949;Q9UI32;O95336;Q9Y3R4;P14854;P40925;O75223;P32189;P03901;Q9UH92;Q9UL01;Q9P0J0;P03923;Q6STE5;P57740;P17707;P16930;Q9Y618;P25788;Q9Y314;Q12769;P69905;Q9HAB8;P29539;P23921;Q05932;Q9NRG9;P28066;Q9BV57;P50440;Q03393;Q6IA69;Q8NMFH3;Q9BZQ4;Q9UMX2;P13196;P62879;P10515;O60907;Q9UG56;P28065;Q9BVL2;O43242;P18859;Q14192;P49247;Q9NZZL9;P51580;P29966;Q7LG56;Q92621;P24588;P34896;P17405;P56134;P17980;Q8WWR8;O75832;P20618;O43505;P49902;P14324;P22033;O75390;P10606;P49792;Q9UL46;P28074;P61289;P12074;P21695;O95182;P61457;Q16635;Q9BXS1}

19977 Pathogen[ P14075] interacts with 212 human

partners: {O43674;P11169;Q3L8U1;P06733;Q9NVH6;P29474;P68871;Q9HAB8;Q96ST3;P40925;Q96GX9;Q9H5J4;P56181;Q16719;P55036;P25788;Q9BW60;P31350;P28066;P06132;P49902;P06744;Q06323;O96000;O75832;Q8WYR1;O95182;P11172;Q8TAA3;O43677;P60900;P34896;P62879;O00233;Q14686;Q9UL46;Q9BV57;P78406;P57740;P32189;P49720;Q8WWR8;Q16822;Q93100;P49792;Q15327;Q9BV20;Q8N1F7;P18669;Q8N159;Q9UH92;Q5UE93;O14734;Q16613;P13073;P19367;P22732;Q96G03;Q13510;Q9HB03;Q9UKX7;P40926;Q8NMCN5;Q13200;P08397;P48556;P62140;Q16401;O95045;P15559;P35658;P31040;P12270;P46976;P54840;P28070;O43920;Q13057;O75306;Q92621;O75182;P49721;O95571;P07195;O14561;P36873;Q9Y618;O00231;O75376;O95298;P62136;Q92530;A1L3X0;O43678;P07900;Q9NP71;Q96HA1;P16118;Q9BW27;P31749;P07902;P04406;Q92539;P49419;O00401;O43505;P28062;P99999;P28074;P22033;P29966;P28065;Q63HM1;Q9NVS9;Q8TEM1;Q86X55;Q8TE04;O75251;P30047;Q16836;P27986;Q96EE3;P14324;P37198;P25786;Q5SRE5;Q96RS0;O14818;O95336;O60907;P614

- 57;P35573;P28072;P51580;P10515;O96007;Q14397;P33316;Q9BZ23;P24539;Q14997;Q96RU7;Q9GZR5;O15379;Q8NFH3;O94925;P00338;Q9NZI5;O15504;P09972;P25787;Q9BZK7;P15259;Q92793;O14832;P38117;P49247;O75192;Q99567;Q9UG56;Q12769;P11168;P27469;P20618;P13807;P56385;P07741;Q9BVL2;Q9HAN9;P49790;P01215;P30793;Q8WUM0;O75489;O75330;Q9UNM6;P21673;Q6STE5;Q6XQN6;Q9BU02;P61289;P40306;P14672;P37837;O95178;Q99436;O75694;Q9NRG9;P09467;Q7Z3B4;P50440;Q9P0J0;Q8NFH4;Q16851;Q14192;Q9BYK8;Q96NU7;Q8NFH5;O14556;P22392;O43676;Q15596;Q9NRN7;O95190;Q9P2R7;P52948;Q9Y697;Q14693;P25789;P10599;Q9Y314;P69905}
- 19978 Pathogen[ POC206] interacts with 293 human partners: {P33316;P61289;P06733;Q96EE3;Q16831;Q16851;Q99436;P28062;Q96RS0;P99999;Q9UNM6;Q92621;P07195;P68871;P56181;Q92539;P05062;P10746;Q96G23;O75832;O75192;Q96PE7;P49790;Q96ST3;Q14739;P31749;P40306;Q5SRE5;Q9NP71;P28065;Q14997;Q9UH92;Q8NFH5;Q93100;Q9NRG9;Q9NZI5;P50213;O75251;P46976;P60174;Q9NZL9;Q9BV20;P62879;Q9UDW1;P55036;O43920;Q6XQN6;P25786;P25788;Q92562;P51161;P22392;Q96G03;O60907;O14521;P25787;O75306;P12074;Q7Z3B4;Q13615;Q9HB03;Q06323;Q15327;Q8TE04;O15382;Q04446;O75608;Q86X55;Q16836;Q13057;P36542;P09467;P49720;Q9Y697;P15559;Q6STE5;Q96HA1;O14832;O95182;Q9NVH6;P36551;O00232;Q16822;P00915;Q96007;P60900;P21953;P38117;Q9P2R7;Q7LG56;Q9UBX3;P35754;P49902;P43490;P57740;P31939;Q9BZ23;Q9UI09;P11166;P30793;P19367;O43242;P32189;P27986;Q96RU7;O95045;A5LHX3;P23786;Q9H5J4;Q9HAB8;P13807;O95298;P22695;Q92793;Q9UL01;Q8N159;P51580;O14561;P30047;P25789;P46020;O95292;O95954;Q8WUM0;Q9BYK8;P21673;P69905;P54840;P11168;P49792;P11172;Q8TEM1;P06744;Q9UKX7;P14324;Q9Y3R4;P30084;Q99743;O00483;Q13907;Q9BXS1;P54368;Q16719;Q9HA82;P17568;P20618;O43708;Q13200;Q15379;Q8TAA3;O14556;Q75330;P28070;P07900;O75694;Q9UHY7;O95178;O95190;P34896;P22557;P50440;P32929;P01215;Q9UG56;Q99460;Q8TCD5;Q9BQK8;Q14686;P40925;O00204;P23526;Q9HOP0;O00757;O14734;P13073;Q9BZQ4;P04406;Q6IB77;P40926;P22830;P28066;P31040;P24539;O00401;Q9NPB8;Q9BZK7;Q9BV57;O75376;P07902;O14818;P04818;Q9P0J0;Q99567;P62140;O60825;P61457;Q9HAN9;Q9UI32;Q8NFH4;Q96GX9;P29474;P28072;Q63HM1;Q95336;O43678;Q15274;Q8WWR8;O94925;O75489;P16278;P09972;O75390;P16118;Q15596;P14672;P56381;Q03393;Q5UE93;P07741;Q9GZR5;P78406;P28074;P27469;Q14397;Q14192;P49419;Q92530;O15504;P15121;P49721;Q12769;Q99798;Q16762;P13196;P10599;P49247;P08397;P07954;Q9UL46;Q16613;Q8NFH3;P21912;P36873;P22033;Q14693;Q8NCN5;Q9BU02;P00338;Q8N1F7;P10515;Q15788;O96000;P13929;P06132;O43674;P56385;O00233;O95571;Q9Y618;P37837;P48556;P35658;Q8IV19;P00480;Q16401;P56556;P29966;Q9BW27;P18669;O75182;O95396;P14618;P24136;Q9BVL2;P36871;O43505;O00231;P15259;A1L3X0;O15488;P31350;P12270;Q9NRN7;Q96NU7;Q05932;Q08AM6;P29401;Q9BW60;Q3L8U1;Q9Y314;P35573;Q8WYR1;Q9UMX2}
- 19979 Pathogen[ P03363] interacts with 127 human partners: {Q6XQN6;O14734;P62879;Q16836;Q96RS0;P29474;Q3L8U1;Q7Z3B4;P69905;P62136;P49419;Q9H5J4;P13807;P31040;Q9UH92;P07900;P06744;Q5SRE5;P51580;Q8WYR1;P12270;P18669;Q8IV19;P36873;Q16851;P33316;Q8NFH4;Q6STE5;P68871;P99999;Q92539;P62140;Q92530;Q14397;P40925;Q9HAN9;Q8NFH3;Q12769;O15379;P06733;Q9BZK7;O94925;P09972;O75376;O60907;P06132;O96007;P07741;P61289;P11172;Q9UKX7;Q15596;P51161;Q14686;Q15327;Q9Y697;Q99743;Q63HM1;P21673;O95571;P35754;Q9NRG9;Q8WUM0;P61457;Q9BVL2;Q99567;Q9P0J0;Q5UE93;P1749;Q96ST3;O15056;P37837;P04406;O00204;Q9NZI5;Q96HA1;Q9Y618;P49792;Q9NRN7;P35658;P54840;Q9BYK8;Q9BV57;O75694;P49790;P29966;Q92793;P57740;Q9UI32;Q9BV20;P27469;P10515;P13196;O00401;O95336;P14672;P78406;Q96G23;Q9UMX2;P52948;O96000;Q96GX9;Q14739;Q9NP71;O15504;P30047;Q9BU02;P37198;O14556;P35573;Q8N1F7;O43708;Q92621;Q8NFH5;Q06520;P46976;P27986;P15259;O75182;P11166;Q86X55;Q9BW27;O95190;P6181;Q96G03;Q9Y314;Q14192}
- 19980 [Cluster 1817]GO:0048839+P biological\_process [name] inner ear development [def] "The process whose specific outcome is the progression of the inner ear over time, from its formation to the mature structure." [GOC
- 19981 Pathogen[ Q2Q067] interacts with 7 human partners: {Q13562;O14910;O75444;Q15599;P49639;P46527;P49715}
- 19982 Pathogen[ POC214] interacts with 6 human partners: {O75444;O14910;P49639;Q9UM54;Q15599;P46527}
- 19983 Pathogen[ P03346] interacts with 13 human partners: {P31271;P49639;Q92858;P49715;O75444;Q15599;Q15475;Q9UBR4;Q13562;P46527;P49335;O14910;Q15319}
- 19984 Pathogen[ Q85601] interacts with 9 human partners: {P49639;O14910;Q13562;O75444;P31271;P49715;Q9UM54;Q15599;P46527}
- 19985 Pathogen[ P14079] interacts with 7 human partners: {Q9UM54;P31271;P49715;Q15599;O75444;P46527;P49639}
- 19986 Pathogen[ P03383] interacts with 4 human partners: {P49639;P46527;O75444;O14910}
- 19987 Pathogen[ P03410] interacts with 7 human partners: {P46527;O14910;O75444;Q9UM54;Q15599;Q9NRR1;P49639}
- 19988 Pathogen[ P14075] interacts with 3 human partners: {O75444;P46527;O14910}
- 19989 Pathogen[ POC206] interacts with 10 human partners: {Q9UM54;O75444;P49639;P49715;Q15599;P46527;O14910;Q13562;P31271;Q9UBR4}
- 19990 Pathogen[ P03363] interacts with 7 human partners: {O14910;P31271;P49639;O75444;P49335;Q15599;Q15319}
- 19991 [Cluster 1818]GO:0003143+P biological\_process [name] embryonic heart tube morphogenesis [def] "The process in which the anatomical structures of the embryonic heart tube are generated and organized. The embryonic heart tube is an epithelial tube that will give rise to the mature heart." [GOC
- 19992 Pathogen[ Q2Q067] interacts with 2 human partners: {P46937;Q15562}
- 19993 Pathogen[ POC214] interacts with 2 human partners: {P46937;Q15562}
- 19994 Pathogen[ P03346] interacts with 2 human partners: {Q15562;P46937}
- 19995 Pathogen[ Q85601] interacts with 2 human partners: {Q15562;P46937}
- 19996 Pathogen[ P14079] interacts with 2 human partners: {P46937;Q15562}

19997 Pathogen[ P03383] interacts with 2 human partners:{Q15562;P46937}

19998 Pathogen[ P03410] interacts with 2 human partners:{P46937;Q15562}

19999 Pathogen[ P14075] interacts with 2 human partners:{Q15562;P46937}

20000 Pathogen[ P0C206] interacts with 2 human partners:{P46937;Q15562}

20001 Pathogen[ P03363] interacts with 2 human partners:{Q15562;P46937}

20002 [Cluster 1819]GO:0007178+P biological\_process [name] transmembrane receptor protein serine/threonine kinase signaling pathway [def] "The series of molecular signals generated as a consequence of a transmembrane receptor serine/threonine kinase binding to its physiological ligand." [GOC

20003 Pathogen[ Q2Q067] interacts with 1 human partners:{075969}

20004 Pathogen[ P0C214] interacts with 1 human partners:{075969}

20005 Pathogen[ P03346] interacts with 1 human partners:{075969}

20006 Pathogen[ Q85601] interacts with 1 human partners:{075969}

20007 Pathogen[ P14079] interacts with 2 human partners:{Q5JQC9;075969}

20008 Pathogen[ P03383] interacts with 1 human partners:{075969}

20009 Pathogen[ P03410] interacts with 2 human partners:{Q5JQC9;075969}

20010 Pathogen[ P14075] interacts with 1 human partners:{075969}

20011 Pathogen[ P0C206] interacts with 2 human partners:{Q5JQC9;075969}

20012 Pathogen[ P03363] interacts with 1 human partners:{075969}

20013 [Cluster 1820]GO:0044262+P biological\_process [name] cellular carbohydrate metabolic process [def] "The chemical reactions and pathways involving carbohydrates, any of a group of organic compounds based of the general formula Cx(H2O)y, as carried out by individual cells." [GOC

20014 Pathogen[ Q2Q067] interacts with 6 human partners:{P07195;P40925;Q9BYZ2;P40926;P00338;P07864}

20015 Pathogen[ P0C214] interacts with 8 human partners:{Q8IX04;P07864;075390;P53396;Q6ZMR3;P40926;Q9BYZ2;P07195}

20016 Pathogen[ P03346] interacts with 6 human partners:{075390;P40926;P00338;P07195;P40925;Q9BYZ2}

20017 Pathogen[ Q85601] interacts with 7 human partners:{Q6ZMR3;P07864;Q9BYZ2;P40925;P07195;P00338;P40926}

20018 Pathogen[ P14079] interacts with 6 human partners:{P00338;P07195;Q6ZMR3;P07864;P40925;Q9BYZ2}

20019 Pathogen[ P03383] interacts with 7 human partners:{P40926;P00338;Q9BYZ2;P07864;P40925;P07195;Q6ZMR3}

20020 Pathogen[ P03410] interacts with 8 human partners:{Q9BYZ2;Q6ZMR3;P07195;P00338;P40926;P07864;P40925;075390}

20021 Pathogen[ P14075] interacts with 6 human partners:{P40925;P40926;P07195;P07864;P00338;Q9BYZ2}

20022 Pathogen[ P0C206] interacts with 8 human partners:{P07195;Q6ZMR3;P07864;P40925;P40926;075390;Q9BYZ2;P00338}

20023 Pathogen[ P03363] interacts with 2 human partners:{P40925;Q9BYZ2}

20024 [Cluster 1821]GO:0060442+P biological\_process [name] branching involved in prostate gland morphogenesis [def] "The process in which the branching structure of the prostate gland is generated and organized. A branch is a division or offshoot from a main stem." [GOC

20025 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UK73}

20026 Pathogen[ P0C214] interacts with 1 human partners:{Q9UK73}

20027 Pathogen[ P03346] interacts with 2 human partners:{P31271;Q9UK73}

20028 Pathogen[ Q85601] interacts with 2 human partners:{Q9UK73;P31271}

20029 Pathogen[ P14079] interacts with 2 human partners:{P31271;Q9UK73}

20030 Pathogen[ P03383] interacts with 1 human partners:{Q9UK73}

20031 Pathogen[ P03410] interacts with 1 human partners:{Q9UK73}

20032 Pathogen[ P14075] interacts with 1 human partners:{Q9UK73}

20033 Pathogen[ P0C206] interacts with 2 human partners:{Q9UK73;P31271}

20034 Pathogen[ P03363] interacts with 2 human partners:{P31271;Q9UK73}

20035 [Cluster 1822]GO:0010288+P biological\_process [name] response to lead ion [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a lead ion stimulus." [GOC

20036 Pathogen[ Q2Q067] interacts with 2 human partners:{P29474;P08397}

20037 Pathogen[ P0C214] interacts with 5 human partners:{P29474;P09417;P08397;P36551;P22830}

20038 Pathogen[ P03346] interacts with 2 human partners:{P29474;Q12772}

20039 Pathogen[ Q85601] interacts with 3 human partners:{Q12772;P29474;P08397}

20040 Pathogen[ P14079] interacts with 4 human partners:{Q12772;P08397;P22830;P36551}

20041 Pathogen[ P03383] interacts with 2 human partners:{P29474;P08397}

20042 Pathogen[ P03410] interacts with 5 human partners:{P08397;P36551;P29474;Q12772;P22830}

20043 Pathogen[ P14075] interacts with 2 human partners:{P29474;P08397}

20044 Pathogen[ P0C206] interacts with 5 human partners:{P36551;P22830;P29474;P08397;Q12772}

20045 Pathogen[ P03363] interacts with 1 human partners:{P29474}

20046 [Cluster 1823]GO:0034499+P biological\_process [name] late endosome to Golgi transport [def] "The directed movement of substances from late endosomes to the Golgi." [GOC

20047 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8IWJ2}

20048 Pathogen[ P0C214] interacts with 1 human partners:{Q8IWJ2}  
20049 Pathogen[ P03346] interacts with 1 human partners:{Q8IWJ2}  
20050 Pathogen[ Q85601] interacts with 1 human partners:{Q8IWJ2}  
20051 Pathogen[ P14079] interacts with 1 human partners:{Q8IWJ2}  
20052 Pathogen[ P03383] interacts with 1 human partners:{Q8IWJ2}  
20053 Pathogen[ P03410] interacts with 1 human partners:{Q8IWJ2}  
20054 Pathogen[ P14075] interacts with 1 human partners:{Q8IWJ2}  
20055 Pathogen[ P0C206] interacts with 1 human partners:{Q8IWJ2}  
20056 Pathogen[ P03363] interacts with 1 human partners:{Q8IWJ2}  
20057 [Cluster 1824]GO:0045893+P biological\_process [name] positive regulation of transcription, DNA-dependent [def] "Any process that activates or increases the frequency, rate or extent of cellular DNA-dependent transcription." [GOC  
20058 Pathogen[ Q2Q067] interacts with 275 human partners:{Q13562;Q12905;Q9UPP1;P27540;Q6VMQ6;P01100;O00213;Q9GZT8;Q04864;Q16236;P62633;O75155;Q03052;P56524;Q8IZD2;Q9HBZ2;Q9BRR0;P04198;P15884;P20226;Q96HR3;P10243;Q9Y462;Q9Y5V3;Q75925;Q92922;Q9NS56;P23511;Q05066;Q9HBE1;Q99081;Q12888;Q13887;Q96RK1;P06400;Q9NPJ6;Q96I24;O00233;Q01094;Q8WW38;P40763;Q9H5Q4;Q8WYH8;P14921;P01106;Q9HAZ2;O60481;Q13485;O00287;P35680;Q9P0U4;Q9UI56;P62826;P62508;P48380;P35712;Q9Y2X9;Q01664;Q8N5U6;P51531;Q96IT1;O96004;Q92985;Q7Z6R9;Q8HWS3;P08151;Q01196;Q13772;Q14140;Q05516;P20749;Q02930;Q04206;P12980;Q13547;Q14103;P55345;Q93074;Q14814;P50549;Q95999;O75486;P36956;P41161;Q14192;Q9BWW4;Q86WV1;Q9BWX5;Q15350;P35638;Q9NY61;O75448;Q9NPI1;Q02447;Q2M1K9;Q96T58;O60244;Q6ZNA4;O14896;Q96SN8;Q86WP2;P09086;Q9Y5A6;Q8TF47;P17676;Q2QGD7;P08047;O75928;Q13129;Q8N726;P11831;P15172;Q6NT76;Q14CW9;P48552;P28069;P78545;Q8IXH6;Q15723;Q08050;O15405;Q00059;O43524;Q9Y297;Q99966;Q92994;Q13469;Q8N0Z2;Q9UHV2;P78317;Q96CJ1;P15036;Q5TA31;Q15699;P40337;P56693;P48788;Q6PGN9;P19532;Q92831;Q15306;O96017;Q14978;P84022;Q14641;P10914;P52815;O00716;O75177;O75528;Q92769;O14497;O00255;Q9UHV7;O95644;P24864;Q13127;P11161;Q12906;O00268;P51532;Q8NI51;Q9H4L7;O43918;O15078;P50613;O15198;Q9NVC6;P25208;O15164;P35869;Q9H160;Q8NHW3;P82970;Q16621;Q92993;O60907;O75030;P55055;Q9UIH9;P12956;Q15796;P20248;P50570;Q7Z7C8;Q02556;P23760;Q5VTR2;Q99543;Q99607;P37198;P19419;Q96T23;Q5BKZ1;Q8WWQ0;P19838;Q8IZX4;P43268;P20823;P23193;Q9HBT7;Q8N371;Q12968;Q9UPY8;Q9Y2X0;P35813;P25963;Q7RTV0;Q14686;Q96T76;Q04917;Q9BZK7;Q6QNY1;Q9UI95;O14920;Q14872;P22415;P19484;O95619;P17096;P35269;Q8TE85;P11474;Q9HCK8;Q969V6;Q9P1Z2;Q9NP71;Q8TAQ2;Q92793;P18848;Q9NSC2;Q9H2F5;Q15853;P24941;Q9NPA8;Q9BQA5;P35232;O60869;P28370;Q6STE5;Q13404;Q8IY57;Q9Y2W1;P23497;Q9Y252;Q13952;P15923;P10242;Q99717;P49711;Q14207;Q53QV2;P42224;P49918;P22736;Q9NYV6;Q9BTA9;P23409;Q12830;Q13105;Q86TU7;Q9H0N5;Q9P1T7;Q9UJW9;P49715;P18146;Q03112;Q15650;P17947;P32519;Q9BXJ9;Q96A56;P98168;Q9UBS8;P33076}  
20059 Pathogen[ P0C214] interacts with 269 human partners:{Q92993;Q5BKZ1;O00268;O15078;Q03052;Q9BWW4;O15198;Q8NI51;O00213;Q8N371;P20248;Q96CJ1;P32243;P35813;O75486;Q13887;Q96T58;Q02930;P48788;P35869;Q9Y5V3;Q13469;Q8N0Z2;Q14207;P11474;O75528;Q13952;Q13547;Q14872;Q13772;Q6VMQ6;Q9Y5A6;P19838;P14921;O75925;O14497;Q8TD17;Q04917;P48552;P35269;Q9UIH9;P19484;P25208;Q99081;P50613;P33076;Q9Y2X0;Q7Z6R9;Q9HBE1;P15884;Q8NHW3;Q9NS56;O60907;O15350;Q14CW9;Q03112;Q13015;Q96SN8;Q16621;P01100;Q93074;P32519;Q92793;P19419;P56693;P84022;Q12906;P17096;P15172;P17947;P56524;Q7Z7C8;Q6NT76;P11831;Q96HR3;Q04206;Q9NVC6;Q2M1K9;Q6STE5;P42224;Q13404;P10914;Q5JV F3;P98168;Q12905;Q99607;O00716;O75030;Q8N726;P55345;Q86WP2;Q9H4L7;Q9Y297;Q14686;O60244;Q9NY61;Q8TAQ2;Q9UI95;Q9H2F5;P17676;P78317;O95619;Q8N5U6;Q9HBZ2;Q53QV2;Q6PGN9;Q00059;Q9H0N5;Q92922;Q8IXF0;Q9BRR0;Q13129;Q9GZT8;Q99966;Q8TE85;P10243;Q12968;Q01094;Q14814;P18848;Q92985;P37198;Q96IT1;P15923;Q14103;P28370;O96017;Q14978;Q02556;P49918;O14641;Q9TF47;Q92994;Q8WWQ0;O95999;Q13485;Q92769;P20749;Q9HAZ2;Q8WW38;Q9H160;Q96RP1;Q9NPA8;O14896;P24941;P40337;Q9UBS8;Q7RTV0;Q9HCK8;Q2QGD7;P19532;Q15796;Q9NSC2;Q96I24;Q14192;Q86TU7;P25963;Q9BXJ9;Q9NP71;Q9P1T7;P43268;Q9NYV6;Q8IXH6;P82970;Q13127;O75155;Q15650;P28069;Q9Y252;P20226;Q9UHV2;Q8IZX4;Q5TA31;Q6ZNA4;Q9Y2X9;Q14140;O43918;P10242;Q9UHV7;P62826;Q9Y462;P62633;P23497;P05412;Q9UPY8;Q86WV1;P49711;Q02447;Q92831;O75448;P18146;O15164;Q9NPI1;P24864;Q96T23;Q15853;P52815;P09086;Q9BZK7;P11161;Q12888;P23511;Q99717;P15036;Q9UI56;Q969V6;Q04864;P40763;O96004;P27540;Q99543;Q9HBT7;P08151;Q9BTA9;Q92804;P50570;P48380;Q96A56;P78545;P50549;Q9BQA5;P22415;Q9P1Z2;P23193;Q8WYH8;O00233;O95644;Q6QNY1;P16220;O60869;P35232;P51531;Q5VTR2;Q9Y2W1;P62508;Q01664;O75177;Q15699;O14920;P01106;P35712;Q9NPJ6;Q9UPP1;Q13105;P41161;P06400;P08047;Q05516;P12956;Q8HWS3;O00255;Q12830;P12980;O15405;P35638;O00287;Q96T76;P04198;Q9UJW9;P51532;P23760;Q8IZD2;Q9H5Q4;Q8IY57;Q15723;O75928;Q16236;Q15306;O60481}  
20060 Pathogen[ P03346] interacts with 341 human partners:{Q15723;Q12888;Q99081;P85037;Q06945;Q9BZE0;Q8NI51;P05412;O00213;Q96CJ1;Q12830;Q9GZT8;Q16621;Q13263;O75364;Q8N0Z2;P09086;P35813;P50570;Q15788;P23511;P12956;Q14207;Q9BRR0;Q99966;Q9NPJ6;Q5T1R4;O60907;Q99612;P58012;Q14814;O96017;Q8WYB5;Q7RTS3;Q12905;P16220;Q2QGD7;O43918;P17676;Q7RTV0;Q03052;Q99543;P19484;P62633;Q99607;Q13129;P36956;Q05066;Q8WYH8;Q5VTR2;P35638;Q8WW38;Q9BYU1;P11831;P31270;Q9Y5W3;P06400;P25963;P51532;P70SY1;P50549;Q00059;Q12772;Q9BWX5;Q2M1K9;Q8TD17;Q7Z7C8;Q9UIU6;Q14872;Q96HR3;Q8N5U6;P19419;Q96A56;P24941;Q9NSC2;O75486;O43313;P48380;P25208;P20264;P15923;Q86WP2;P15172;Q15796;P56693;P23760;P56524;O00287;Q93074;Q9NPI1;P23409;Q04206;P33076;P24864;Q12906;O00268;P41161;O60244;Q9H4W6;P15173;Q08050;Q15306;P27540;Q969V6;Q99717;P20823;Q92831;O15350;P49918;Q04864;O75030;P37198;Q8TE85;Q9UI95;Q5TA31;O95644;Q01094;P49715;P17096;Q9UBC0;Q04917;Q13351;P62826;O15198;Q13404;P08047;P12980;O95999;Q15853;P20226;Q92766;P98168;O75155;Q16236;Q14103;O00233;Q96004;Q8WV1;P01106;O75448;Q9BWW4;O75925;Q8NB F1;Q15699;Q9NP71;P18848;P14921;Q06710;Q92794;Q9NS56;P84022;Q8HWS3;Q12968;P17542;Q14978;P10242;O60481;Q8IXF0;Q8TF47;P22736;O14641;Q13469;Q9P0U4;O00255;O75528;O60519;P195

32;O95863;P10914;Q6VMQ6;Q6QNY1;Q02556;Q96SN8;Q92769;Q14192;Q9UBG7;Q9P1Z2;Q13547;Q03112;Q6STE5;P51587;Q8WWQ0;Q9HCK8;O14497;Q6N069;Q9NZC4;P55345;O75840;Q5JUK2;P49711;P20248;Q9NY61;O95361;Q9BXJ9;Q9H5Q4;O14896;P35680;Q9H2F5;Q15475;P82970;Q12778;Q96T23;Q6PGN9;P10243;P42224;Q9Y462;Q9UPP1;Q13887;Q13105;Q6ZNA4;Q53QV2;P98177;Q13015;Q9Y5V3;Q9HBZ2;P78317;Q9UBS8;P35713;Q96T58;O75469;Q9HBE1;Q92994;P40337;Q13492;P04198;Q05516;Q8N371;O95619;Q96RK1;P20749;Q92481;Q13952;Q9H2C1;Q8IUI8;P11161;P35712;Q9H7Z6;P35269;Q9NV6;P32519;Q9NYV6;Q92922;Q9BZK7;P62508;Q9UBR4;Q9HBT7;P28069;P17947;Q99593;P11474;Q9UHV2;P48552;P28370;Q9UI56;P35232;Q01196;P19838;Q9UH73;Q8WUY8;P23497;P56178;Q13485;Q9Y5A6;P23193;O14920;Q96IT1;Q8IZX4;Q9Y2X9;O15078;Q9P1T7;P18146;Q92993;P52815;P43268;Q9Y2X0;Q92793;Q92985;P51531;O60869;P35869;P78545;Q14CW9;O00482;Q9HAK2;Q9Y252;Q02930;Q9UPY8;Q8IXH6;Q8IY57;Q8N726;Q9HAZ2;Q6NT76;O75593;Q9H0N5;Q9Y2W1;Q13562;O75928;P40763;Q99729;Q9Y297;Q8NHW3;P32243;O43524;Q8TAQ2;Q92804;Q9NPA8;Q86WV1;Q13285;Q9H160;Q02447;P01100;P48788;Q01664;P15036;O00716;Q8IZD2;Q13772;O15164;Q9UHV7;Q9UIH9;Q96I24;P55055;O15405;Q15650;Q96T76;Q7Z6R9;Q9UJW9;P15884;Q8IUM7;Q13127;Q9H4L7;O75177;P22415;Q9BTA9;Q5BKZ1;Q14140;Q9BQA5;P08151;Q14686;Q99581;Q86TU7}

20061

Pathogen[ Q85601] interacts with 285 human

partners: {Q96RK1;O95619;P01106;P18146;P10243;O15198;P78317;Q8NI51;Q99543;Q6N069;Q9Y2X0;Q14978;O00213;Q96CJ1;Q8TE85;Q6PGN9;Q9Y5T5;P52815;P08151;Q9H2F5;P11831;Q96T76;Q15853;O14896;P17676;P15036;O60481;P62633;P25208;P33076;Q13127;Q9NS56;O75528;Q16236;O75928;P17096;O96017;Q02556;Q9BWX5;P09086;Q8N371;Q9H0N5;Q7RTV0;Q92994;P19484;P15172;P14921;Q03052;Q6STE5;Q14CW9;Q9NY61;Q8WW38;Q9HBT7;Q9UI95;Q16621;P06400;Q969V6;O60907;Q96T23;P12980;Q14103;P50549;Q96SN8;Q7Z6R9;Q7Z7C8;Q2M1K9;Q9UHV7;Q99966;P40337;O75030;Q14872;P18848;Q14814;Q13129;P19419;P40763;Q03112;P28069;P32519;Q86TU7;P62826;P78545;Q86WP2;Q9Y2X9;Q9BTA9;Q15723;Q12772;Q9H7Z6;O00268;Q2QGD7;P35712;P10242;Q00059;Q15306;O15078;O14497;P27540;O75448;Q13469;Q92831;Q5T1R4;P19532;O15164;Q5TA31;Q6NT76;O95644;O96004;O15405;Q9NP71;P55055;Q04864;P49711;Q9UIH9;Q13952;Q8TF47;Q04917;Q12830;Q8IZX4;Q13404;Q9UBG7;P10914;P08047;Q12888;P51531;Q13562;P01100;O75155;Q13263;Q8NHW3;P22415;O00233;Q14686;Q86WV1;P23409;Q8NBF1;Q9P0U4;Q12968;Q15650;P51532;P48788;Q8IXF0;Q02930;Q9Y5A6;Q8N726;O14641;P23511;Q9BRR0;Q12906;P36956;Q92769;P16220;Q9UHV2;Q99717;Q15699;O14920;Q92804;Q04206;Q8WWQ0;Q14192;Q9H4L7;P50570;P35269;P22736;P20248;Q13772;Q9BW4;Q9BXJ9;P35680;P05412;Q92985;P28970;O00255;Q99612;P42224;Q9Y462;Q9UPP1;Q53QV2;Q8TD17;P11474;Q13015;P50613;P15923;Q9HBZ2;Q96A56;P32243;Q96T58;Q02447;P56693;P23193;Q8N5U6;Q14207;Q05516;O00482;Q9BQA5;P84022;Q99607;Q9NP11;Q5VTR2;Q9HCK8;Q9Y252;P49715;Q9NYV6;P41161;Q8WYH8;P49918;Q9BZK7;P56524;Q6ZNA4;Q8IXH6;P62508;Q12905;P17947;Q08050;Q9NPA8;Q9UBS8;O75486;P28370;P35232;P35869;O15350;Q13547;Q9H5Q4;Q99081;Q96IT1;Q14140;P48552;O00287;Q9NSC2;Q92993;O95999;P43268;P04198;Q9P1T7;Q92793;O60869;P48380;Q9P1Z2;Q5BKZ1;Q6VMQ6;Q8N0Z2;Q9UPY8;Q8IY57;P35813;Q9Y2W1;Q9H160;Q92922;P19838;P20823;Q8TAQ2;O60244;Q13485;Q96HR3;O75925;Q6QNY1;Q93074;P24941;P11161;Q01664;O00716;Q8IZD2;Q13105;Q9NPJ6;Q13887;P20749;P51587;Q96I24;O43918;Q8HWS3;Q9NVC6;Q01094;P23760;Q9UJW9;P15884;Q15796;P12956;P20226;O75177;P55345;Q9HBE1;P35638;P98168;P24864;Q9HAZ2;P25963}

20062

Pathogen[ P14079] interacts with 273 human

partners: {P98168;P48552;Q13952;P52815;Q13492;Q8WUH1;Q96A56;Q9HAK2;Q13772;O60244;Q9NP11;P08151;P15036;O15164;Q9Y2X0;Q9HAZ2;P10243;P62508;P33076;Q9HBT7;Q96T23;Q8IXH6;Q9UPY8;Q5TA31;P55055;Q5T1R4;Q92994;Q86WV1;Q86WP2;Q9BZK7;Q8IZX4;P35869;Q9NYV6;Q06413;Q9BW4;Q6STE5;Q9UHV2;O75928;P35269;O75528;O95999;P23409;Q14192;Q99581;Q15723;O14896;Q14103;P24864;Q96CJ1;P35680;Q9NY61;P09086;O14641;Q8TE85;Q2QGD7;Q92985;Q13404;Q92804;Q14207;Q92793;Q9BXJ9;P28370;Q99607;Q9UI56;Q9BTA9;Q13129;Q9H4L7;Q14CW9;O15405;O15198;P16298;Q96HR3;Q12906;Q15699;P17096;P11474;Q92922;P48380;P51532;O95644;O60907;Q8IXF0;P35712;Q86TU7;P51587;Q6ZNA4;Q9NVC6;Q99966;P51531;Q8N726;Q05516;Q9Y5A6;O96004;P22736;Q02447;Q13105;O00213;P35232;Q8WWQ0;O14497;P32519;P32519;Q8TAQ2;P19484;Q12830;O60869;O00233;Q04917;P41161;P49918;Q9BQA5;P15923;Q15306;Q969V6;O75155;P23497;O15350;Q99612;P50570;Q9BRR0;P35813;P28069;O75448;Q12772;Q12905;Q6NT76;P82970;P50613;Q9NZC4;Q9H0N5;P40337;Q5BKZ1;Q99543;Q8HWS3;Q9UJW9;Q00059;P12956;Q9H4W6;P55345;Q9Y5V3;Q8N5U6;Q6VMQ6;P19532;Q9UIH9;P12980;P11161;O00482;Q92769;Q96I24;O00716;Q8IY57;Q9UHV7;Q5VTR2;Q9UPY8;Q92930;P49715;Q9BWW4;Q7RTV0;O75469;Q2M1K9;P27540;Q12830;P50549;Q8NHW3;P04198;O43294;Q9Y2X9;Q15788;Q01664;P37198;Q9HCK8;Q8WUY8;Q5JVF3;Q13351;Q96RK1;P48788;Q9NS56;Q9NPJ6;O00287;Q8IUI8;P35638;Q9H2F5;Q16621;P01106;Q9H6P5;P56693;Q16236;Q9P0U4;P42224;Q6PGN9;Q8N0Z2;P32243;Q7Z6R9;Q14814;P20248;Q14872;P20749;O75925;P23193;Q9Y5W3;O43918;Q9UBS8;O15078;P78317;Q9P1T7;Q8N371;P15884;Q6N069;P78545;Q9HBZ2;P62633;Q8IUI8;Q02556;Q9H5Q4;Q03052;Q13469;Q93074;Q99081;P62826;O95361;Q8TD17;P05412;Q15650;Q12888;P10242;P56524;Q13127;O75030;Q13015;Q96IT1;O95619;O43313;Q14140;Q9P1Z2;P36956;Q6QNY1;Q01094;O75486;O00255;Q13145;P01100;Q9NP71;Q96SN8;Q8IUM7;P23511;Q9BZE0;Q9HBE1;Q96T76;Q14686;P49711;Q9Y2W1;Q9NPA8;O75177;Q8WYH8;Q9Y462;Q8WW38;Q53QV2;Q9NSC2;Q8NI51;Q8NBF1;P10914;Q9H160;Q92993;P19419;Q8TF47;O00268;Q14978;Q96T58;Q9UBG7;Q9Y2G1;P23760;P22415}

20063

Pathogen[ P03383] interacts with 244 human

partners: {Q15723;O15198;Q8NI51;Q14978;O00213;Q9NY61;Q12830;P10914;O75925;Q92831;Q12888;P11831;Q96T76;P15036;O14497;P35712;P50549;Q13485;Q9UHV2;Q04864;Q96A56;P33076;O00716;Q86WP2;P08047;Q8HWS3;Q9NYV6;O75528;Q99607;P17096;P16220;P27540;P28069;Q13469;Q9NPA8;P35269;P32243;Q9HBE1;Q9BTA9;P40337;P49711;P15172;Q01094;P14921;O75486;O00287;Q15650;P19484;O14920;P01106;Q8WW38;Q96CJ1;Q6NT76;Q9UI95;P23511;P23193;Q9BRR0;O60244;Q9BW4;O60907;Q96SN8;O95644;O00233;P20749;P19419;Q14686;Q6STE5;P28370;Q9UBS8;Q86WV1;P48380;Q00059;Q9G2T8;Q9H2F5;O75030;Q6VMQ6;P35638;P15923;O75155;Q6ZNA4;Q9H5Q4;Q14814;P78317;Q8IZX4;Q8WYH8;O75177;Q96RK1;O15405;Q92993;Q969V6;Q05516;P12980;Q15306;Q9NPJ6;Q96T23;Q86TU7;P35813;Q8TE85;Q93074;Q8N5U6;P06400;P18146;Q9N1V6;Q01664;Q96HR3;Q14872;P62826;P25208;Q14CW9;P20226;Q8TF47;Q8IXH6;Q9HAZ2;Q6PGN9;O75448;O96004;P41161;P11474;Q03112;Q13952;Q92985;Q16621;P84022;P98168;Q92994;Q9H160;P50613;Q9BXJ9;Q02447;Q13105;O146

41;O14896;Q53QV2;Q13015;Q14192;Q5TA31;Q9BQA5;O15078;P24941;Q13404;Q92769;Q99717;P17676;Q14103;Q9Y5V3;Q99081;Q9NSC2;Q12968;P51531;O00268;O15350;P82970;O00255;P25963;Q9Y462;Q8N0Z2;P48788;Q12905;Q96IT1;Q8TAQ2;P35232;O95999;Q99543;O43918;Q16236;Q96T58;Q13547;Q15853;Q14207;Q9UI56;Q5VTR2;Q12906;P10242;P23497;Q9Y252;P52815;Q9HCK8;P62633;P01100;P04198;P43268;P11161;P23760;P49918;Q15796;Q9H0N5;Q9BZK7;P56524;P32519;Q9HBT7;Q8WWQ0;Q04206;P78545;Q8IY57;P51532;Q02556;Q8WUY8;Q9NPI1;Q13772;Q9Y5A6;Q8N371;Q14140;P48552;Q9UHV7;Q9Y2X9;Q9P1T7;Q92922;P37198;P18848;Q9NVC6;Q2M1K9;O60481;P62508;O60869;O95619;Q02930;P24864;P10243;Q15699;Q2QGD7;Q9Y2W1;P19838;P35869;P56693;Q9UPP1;Q9Y2X0;Q9UY8;P19532;P17947;P20248;Q9P1Z2;Q92793;Q7RTV0;Q9UJW9;P12956;Q13127;Q8N726;P22415;O96017;Q5BKZ1;Q6QNY1;O75928;P05412;Q13129}

20064

Pathogen[ P03410] interacts with 272 human

partners: {Q15650;P84022;Q8IXH6;Q92831;P20749;Q04206;Q9Y2W1;P28069;P35712;Q9UI56;Q9UPP1;P23409;O95619;P11831;Q8NBF1;Q8IZX4;P19838;Q9UHV2;P36956;Q9UI95;Q8WYH8;O75925;Q6ZNA4;Q03112;Q8IXF0;Q96T76;P35638;O14920;Q9H4L7;Q14103;P35813;Q13772;Q96T23;Q86WV1;Q6QNY1;O00268;Q92804;Q04864;Q9HAZ2;Q92994;O14896;O96004;Q9BWW4;P19419;P82970;P17676;P23511;Q9P0U4;Q8N726;P01106;Q02447;Q13015;P17947;Q12968;O60481;O14497;Q04917;Q9BQA5;Q14686;P18848;Q8TD17;O75528;P10242;O15405;Q9NVC6;Q99717;Q14814;P78545;O00233;O75030;Q96SN8;P15884;Q14207;Q16236;Q12830;Q14978;Q9NPJ6;Q00059;Q14CW9;O15198;Q9NY61;O43918;Q13145;Q9UIH9;O75928;O43294;Q2M1K9;P17096;P52815;O00213;P50570;P19532;Q5VTR2;P10243;P20226;Q5TA31;P06400;P19484;Q9BQA5;P32519;P23193;P15923;Q99607;Q03052;P62508;Q86WP2;Q9UJW9;Q15306;P05613;O75177;Q96T58;Q8WW38;P01100;Q6VMQ6;O75486;P50549;Q02556;Q9H2T5;Q9HBZ2;Q9BRR0;Q969V6;O95644;Q02930;Q9P1Z2;P27540;Q9NYV6;Q99081;Q13127;O00716;Q9Y2X9;P41161;P12956;Q9NPA8;Q13492;Q92793;Q8TE85;Q8IY57;Q53QV2;Q6N069;P15036;Q9P1T7;O95999;Q8WWQ0;Q92769;Q9BWX5;P62826;Q9Y2G1;Q9UBS8;P24941;Q13129;Q12772;Q16621;P25208;P51587;Q14872;P78317;P56524;Q12905;Q5JVF3;Q92922;Q14140;Q9H160;Q8IUI8;Q9NP71;P43268;P48380;P22415;Q13485;Q96124;O15078;P10914;Q13952;P22736;Q9HCK8;P16220;P56693;Q96017;Q9H5Q4;Q15699;P35269;Q13469;Q9UPY8;P51532;Q9HBT7;Q15853;P48788;Q5BKZ1;P05412;P20248;Q12888;Q96HR3;P49711;Q96CJ1;P98168;Q7Z6R9;Q8NI51;P51531;P12980;Q96IT1;O60244;Q9UHV7;P32243;P11474;Q9Y5V3;Q9BTA9;Q8NHW3;Q13547;Q01664;Q96A56;Q01094;P35680;O60869;Q96RK1;Q7RTV0;O00287;Q8TAQ2;O15350;Q2QGD7;Q9H6P5;Q9BZK7;Q9Y462;P08047;P23760;Q9H0N5;Q8N0Z2;Q13404;Q9Y2X0;P49918;Q93074;Q8TF47;Q13105;Q6PGN9;Q9H4W6;Q6STE5;P25963;Q92985;Q9NSC2;Q8N371;Q99543;P35232;P18146;Q8N5U6;P62633;P48552;O00255;Q15796;P11161;Q92993;Q15723;P24864;P40763;Q8WUY8;O60907;P33076;Q9Y5A6;Q12906;P04198;O75448;Q14192;Q9NPI1;Q86TU7;P40337;P28370;Q9HBE1;Q8HWS3;P55345;P14921;O75155;O14641;Q9UBG7;Q9BXJ9;Q99966}

20065

Pathogen[ P14075] interacts with 246 human

partners: {P28069;Q00059;Q5VTR2;Q8NI51;Q9NSC2;O00213;P35869;P52815;Q99607;Q9H5Q4;P35813;Q9Y5A6;Q9GZT8;Q9NPJ6;P23497;Q9H2F5;P12956;Q14207;Q13105;Q04206;P24941;Q8WWQ0;O75030;Q8N371;Q9NPI1;P05412;Q5BKZ1;P11474;Q9BQA5;Q14103;Q9NYV6;Q8IY57;Q92831;P11831;O60481;Q9BWW4;Q9BXJ9;P78545;P51532;Q96HR3;P25208;O00233;Q14686;Q8TE85;Q9Y252;P43268;P50613;Q96T58;P19419;Q12905;Q9UPP1;Q86TU7;Q9NY61;P48380;P62633;Q9HBT7;P11161;P15172;P17096;P56524;O43918;Q08050;P18146;Q13015;P19484;Q9P1T7;O95619;P33076;Q92922;O75925;Q96RK1;P35638;Q92994;O00287;Q96IT1;Q96SN8;Q7Z7C8;Q12906;Q99543;Q99717;O75448;O00716;P56693;Q8WW38;P20226;P04198;Q9UHV2;Q9UI95;Q9BRR0;P10242;Q15796;P15923;Q13952;P25963;Q13547;Q8N0Z2;P01106;Q92993;O14497;Q9HAZ2;P27540;Q02556;O96004;Q13485;P35232;O00255;Q86WV1;Q93074;Q9NP71;P15036;O14920;Q15853;Q8N5U6;Q9UPY8;Q6ZNA4;O15078;Q14CW9;P32519;P49918;O14641;Q01664;P23193;Q9UHV7;O75528;Q12830;Q9H0N5;Q13469;O96017;Q15650;O15350;Q92769;P35712;Q6VMQ6;Q6QNY1;Q9HCK8;Q15723;P51531;Q9BTA9;P35269;Q9NPA8;O15198;O60244;Q96CJ1;O75928;P37198;P20248;Q15306;O15405;P17947;P62826;P82970;Q8TAQ2;Q8WUY8;O60907;Q9P1Z2;P23511;P78317;P18848;Q969V6;Q01094;P28370;P14921;O95999;P06400;Q03112;Q8IXH6;P50549;O14896;P98168;P01100;O00268;Q02447;Q9Y2X9;Q6PGN9;P12980;P49711;Q9BZK7;Q92927;Q9393;P15884;Q9NVC6;Q13772;Q8TF47;Q13404;Q15699;Q13127;Q9UBS8;P48552;O75486;Q05516;P19838;Q53QV2;P48788;Q12888;Q13129;P16220;Q5TA31;P22415;Q86WP2;Q92985;P84022;Q16621;P23760;P17676;Q16236;O60869;Q8WYH8;Q2M1K9;Q6STE5;P10914;O75155;P40337;Q99081;Q9Y5V3;Q2QGD7;Q9Y2W1;Q9H160;P32243;Q14814;Q12968;P19532;Q6NT76;Q14872;Q14192;Q8HWS3;Q96A56;Q9UI56;Q9Y462;Q02930;P62508;Q14978;O95644;Q8N726;Q9Y2X0;Q96T76;P20749;Q9UJW9;Q04864;O75177;Q8IZX4;P10243;Q9HBE1;Q14140;P24864;Q7RTV0;P08047}

20066

Pathogen[ P0C206] interacts with 304 human

partners: {Q8HWS3;Q8TE85;Q15723;Q13887;P84022;O75486;Q8IXH6;Q9Y2X9;Q8N371;Q9H4L7;P10914;Q92769;Q9NS56;Q9BZE0;Q9P0U4;P98168;O75528;Q9HCK8;O60481;Q14103;P23193;Q96HR3;Q9H2F5;O14920;Q96SN8;Q6VMQ6;Q13469;Q9NP71;Q9HAZ2;Q12905;Q13127;P14921;P51532;Q9NPI1;Q13263;Q8N726;O96017;P20226;P11161;P16220;Q9Y5T5;P35869;O75030;O75925;O43313;Q9HBE1;Q9UV2;O60907;Q8WYH8;Q9NSC2;Q05066;P51587;P51531;Q05516;Q6ZNA4;O75469;O00255;O95999;Q99717;Q6STE5;P05412;Q5T1R4;Q8WW38;P25963;O00268;Q9Y5V3;Q9UPP1;P19419;O75177;P10242;Q8NI51;Q9Y462;P23409;Q9UBC0;P12980;Q86TU7;Q9UIH9;P55055;Q6QNY1;P20248;P43268;Q96T23;Q92922;Q15306;Q13547;P49715;P36956;Q14140;O15164;P19484;P62826;Q9P1Z2;Q12968;P56693;Q04917;Q92993;Q6PGN9;P48380;O00716;P22736;Q9UHV7;P19532;Q8N5U6;P78317;Q15699;Q15796;Q5JVF3;Q96A56;Q8TAQ2;Q92831;Q9BQA5;Q5BKZ1;P33076;Q5VTR2;Q9H160;O00482;Q8WWQ0;Q8IZX4;Q5TA31;O15405;P18146;Q6N069;P62633;O96004;Q9HBT7;Q92793;Q7Z6R9;Q9BWX5;P32519;Q15853;O43918;Q02556;P23511;O00213;Q13952;O14497;P82970;Q12888;P19838;Q969V6;Q99581;Q99612;P35269;P22415;P62508;Q15650;Q03112;P09086;Q99081;Q9UPY8;P50613;P50549;O95619;P32243;P17676;Q86WP2;Q8TF47;Q9UI56;P35232;Q13015;Q96CJ1;P08047;Q14CW9;Q9BWW4;Q92985;Q53QV2;Q9UBS8;Q9NPJ6;Q99543;P35680;P49711;P01100;Q9H2C1;Q04206;Q86WV1;P15923;Q01094;Q14686;Q8WUY8;O95361;P15884;O15078;P20823;Q02447;Q03052;Q9Y2W1;P04198;Q96IT1;Q7RTV0;P78545;P17947;Q02930;Q8NHW3;Q04864;O43294;Q8NBF1;Q9BZK7;Q92804;P15036;Q14872;O14896;P40763;Q13485;Q9BTA9;P25208;Q9Y5A6;Q13129;P23760;Q2M1K9;P28370;Q96T58;O60869;Q96T76;P17096;Q13562;Q96RK1;P11831;Q08050;O60244;Q13422;Q01664;Q99966;P20749;Q9BRR0;Q9H5Q4;Q8WUHL;Q8IY

57;P35712;Q16236;O15350;P10243;Q16621;O00287;P27540;Q2QGD7;Q9NVC6;P15172;Q13772;Q929  
94;Q14192;O75448;Q14814;Q9UBR4;Q7Z7C8;P11474;P01106;Q9HON5;Q9NZC4;Q8IUM7;O15198;O956  
44;P55345;P56524;Q13404;Q9Y2X0;P28069;P48788;Q96I24;P08151;P48552;Q00059;Q13105;P411  
61;Q9Y252;P42224;Q9H4W6;Q9UK53;Q9BXJ9;P12956;Q9HAK2;Q9NY61;Q9NPA8;Q8N0Z2;Q6NT76;P248  
64;P24941;Q15788;Q9NYV6;Q93074;Q8TD17;P18848;Q12830;Q9UBG7;O00233;Q12906;Q99607;Q9P1  
T7;Q9UJW9;Q12772;Q9UI95;P35638;P50570;Q14207;Q8IZD2;Q9HBZ2;Q9H7Z6;P35813;Q14978;P403  
37;P52815;P06400;Q8IXF0;P49918;O75155}

20067 Pathogen[ P03363] interacts with 264 human  
partners: {Q8IZX4;Q16236;Q9Y5A6;Q9H160;P49918;Q14978;Q53QV2;Q15699;O95619;P12956;Q9UB  
C0;Q8IUM7;Q9Y252;P98168;P18848;Q13105;Q6N069;Q6VMQ6;Q12830;Q8N5U6;Q92985;Q96T58;Q927  
66;Q96I24;Q9BYU1;O14920;Q8WWQ0;Q04206;Q15853;Q14896;P27540;P17676;O60481;P18146;Q5JU  
K2;P24864;Q6STE5;Q02930;Q96HR3;Q9BRR0;Q99543;P08151;Q9H4L7;O15078;Q86WV1;P62633;Q024  
47;Q13952;Q02556;Q92831;P25963;P62508;P20248;Q03112;O00213;Q8TAQ2;P23760;P09086;P179  
47;Q9H2F5;P51532;Q7RTS3;Q9H0N5;P82970;Q9BZK7;Q8NHW3;Q9GZT8;P04198;Q5T1R4;Q7RTV0;P505  
70;O14497;O60907;Q9Y462;Q99607;P52815;P78317;P11474;P16220;Q16621;Q99612;Q9P0U4;Q5VT  
R2;P19419;Q13015;P14921;Q9HBZ2;O00268;Q15306;P24941;Q6NT76;Q969V6;P32243;P43268;Q9Y2  
X9;Q14686;P23497;P06400;P40337;P01106;Q8NI51;P35869;Q99729;P49711;Q96RK1;Q8N0Z2;P487  
88;Q6ZNA4;Q13127;P35269;Q8IY57;O96017;Q5BKZ1;O43524;P15923;Q2M1K9;Q96T23;P20749;Q8TE  
85;Q9P1T7;P32519;Q14140;P48552;Q6PGN9;Q05066;Q08050;P11831;Q9UPY8;Q9NY61;Q13129;Q9HC  
K8;Q96A56;Q14872;P56693;P20264;P28069;Q12906;Q96T76;O75030;Q9HBT7;Q9UHV2;Q14814;Q9NZ  
C4;P78545;Q86WP2;Q9NYV6;P17096;Q9P1Z2;Q01094;Q9NVC6;O75155;Q7Z7C8;Q9NP11;Q9BQA5;Q9UH  
V7;Q15796;Q15723;P84022;Q7Z6R9;P41161;O96004;Q8IXF0;Q9UI95;P35638;P10914;Q6QNY1;Q96I  
T1;Q9NPA8;O75925;Q00059;P50549;P22415;O00287;Q12905;Q13547;P19838;Q93074;Q9UBS8;Q927  
93;O75448;Q9UI56;O60869;Q13469;P33076;Q14CW9;Q14103;Q9BWX5;P23193;P35712;P10242;P202  
26;Q13485;Q8N726;Q92804;Q12968;P23409;Q5TA31;Q9Y5V3;P12980;P19484;Q2QGD7;Q9NPJ6;P158  
84;Q8TF47;Q95644;P35232;P05412;O15405;Q96CJ1;P28370;Q99581;Q04864;P19532;O60244;Q049  
17;O75486;Q9BWW4;O43918;Q9NP71;Q14207;Q8WW38;Q13404;Q9UBG7;P08047;Q99081;P48380;O007  
16;P37198;P51531;Q92922;P62826;O14641;Q9UIH9;Q8HWS3;P15172;Q05516;Q99717;P25208;Q9BT  
A9;O15198;Q8WYH8;Q9UJW9;Q01664;Q8IXH6;P15036;Q9BZE0;Q92993;Q9BXJ9;Q03052;Q8NBF1;O755  
28;Q12888;P10243;O75177;Q15650;O75928;P23511;Q96SN8;Q9H5Q4;Q9HAZ2;P01100;Q14192;P111  
61;O00482}

20068 [Cluster 1825]GO:0048659+P biological\_process [name] smooth muscle cell proliferation  
[def] "The multiplication or reproduction of smooth muscle cells, resulting in the  
expansion of a cell population." [CL

20069 Pathogen[ Q2Q067] interacts with 1 human partners: {Q5VZE5}

20070 Pathogen[ P0C214] interacts with 1 human partners: {Q5VZE5}

20071 Pathogen[ P03346] interacts with 1 human partners: {Q5VZE5}

20072 Pathogen[ Q85601] interacts with 1 human partners: {Q5VZE5}

20073 Pathogen[ P14079] interacts with 1 human partners: {Q5VZE5}

20074 Pathogen[ P03383] interacts with 1 human partners: {Q5VZE5}

20075 Pathogen[ P03410] interacts with 1 human partners: {Q5VZE5}

20076 Pathogen[ P14075] interacts with 1 human partners: {Q5VZE5}

20077 Pathogen[ P0C206] interacts with 1 human partners: {Q5VZE5}

20078 Pathogen[ P03363] interacts with 1 human partners: {Q5VZE5}

20079 [Cluster 1826]GO:0006508+P biological\_process [name] proteolysis [def] "The  
hydrolysis of proteins into smaller polypeptides and/or amino acids by cleavage of their  
peptide bonds." [GOC

20080 Pathogen[ Q2Q067] interacts with 57 human  
partners: {Q9Y5K5;P48556;P54252;P40306;Q93009;O00303;Q9Y4P1;O15519;Q6ICB0;Q14674;Q994  
97;Q9UDY8;P28072;Q12765;A5LHX3;P25787;Q92905;Q14790;Q9GZR1;P28065;O14818;Q9BQI9;Q8WX  
C3;P60896;Q9UKC9;P40337;P60900;P55212;Q86T82;P28062;P25788;P42575;P61088;P25786;O609  
07;Q9UK99;P28074;P25789;Q93008;P28838;Q9HC62;P20618;P48147;Q05086;P28070;P28066;Q96S  
W2;Q99436;Q8TAA3;Q9NRD1;P49721;P49720;Q9UMX1;Q13867;Q96HI0;O15205;Q14999}

20081 Pathogen[ P0C214] interacts with 67 human  
partners: {Q05086;P25789;Q96HI0;Q9UK99;P22695;P28062;A5LHX3;P28838;Q16740;P28065;Q9NQ  
35;P55212;O14818;O60907;Q9UDY8;Q13867;Q92560;Q9Y4P1;P48556;P40306;Q99497;Q9NRD1;Q149  
99;P48147;Q93008;Q9BQI9;Q9Y5K5;O15519;P28066;O00303;Q92905;Q6ICB0;Q96FV2;P49720;P280  
74;Q96SW2;Q8WXC3;P25788;P40337;P42574;Q93009;P25786;O15205;Q9UKC9;P28072;Q8TAA3;P096  
22;Q99436;P25787;Q12765;Q9GZR1;Q9HC62;P60900;P55210;Q9UMX1;Q15008;Q9H3M9;Q9NY33;P280  
70;P42575;P61088;P54252;P20618;P49721;Q9UKT8;Q14790;Q14674}

20082 Pathogen[ P03346] interacts with 77 human  
partners: {P25787;Q9BXU7;P63119;P28070;Q93009;Q9GZR1;P25789;Q92560;O60907;Q9Y4P1;Q6IC  
B0;Q9H3M9;Q93008;P28072;P25788;P28074;P49721;Q9UDY8;P42575;O14818;Q99436;A5LHX3;Q9UK  
T8;P28062;O95630;P42574;P20618;P55212;Q86T82;Q9BQI9;O15519;O00303;P61088;Q8WXC3;Q96S  
W2;Q9UHP3;Q14694;P10144;P51784;P49720;P28065;Q86UV5;P60900;O75604;P25786;O15205;Q9NR  
D1;Q8IUQ4;Q99497;P28066;P40337;Q92905;Q13867;Q8TAA3;P55211;Q14790;Q9HC62;Q14999;Q127  
65;P48147;P48556;P55210;Q96HI0;Q9UK99;Q96FW1;Q05086;Q6GQQ9;O94782;P60896;Q9UKC9;Q146  
74;Q9UMX1;Q9Y5K5;Q496Y0;Q9H0E7;P40306;P54252}

20083 Pathogen[ Q85601] interacts with 65 human  
partners: {P10144;P28066;P60900;Q99497;Q9Y5T5;Q9H0E7;Q93009;P25787;P25788;O60907;Q9UD  
Y8;Q14790;Q92560;Q9Y4P1;Q96SW2;P40337;Q9HC62;Q9H3M9;O00303;Q14674;P48147;Q13867;Q930  
08;Q9BQI9;P54252;Q9UKC9;P25789;P20618;Q6ICB0;P40306;P49720;Q9NQC7;P42575;Q8WXC3;P280  
62;P49721;Q92905;Q9Y5K5;P25786;O15205;P28072;P28065;O95630;Q99436;Q9NQ35;P28070;Q86T  
82;Q8TAA3;Q14999;Q12765;P48556;Q96HI0;Q9UK99;Q05086;P28074;P55212;A5LHX3;P61088;Q9UK  
T8;O14818;Q9UMX1;Q9GZR1;O15519;P55210;Q9NRD1}

20084 Pathogen[ P14079] interacts with 84 human

partners:{P28838;P22695;P28065;Q99436;Q96FV2;O14773;P48556;Q9NQ35;Q8WXC3;Q96KR4;Q96K  
P4;Q9NUQ7;Q6ICB0;O00303;Q9BQI9;Q9H3M9;O15519;Q96HI0;P40306;Q92542;P28074;Q8NDH3;P481  
47;P54252;Q99497;O60907;P49720;O00487;Q9UMX1;Q86TL0;P25787;Q9NXJ5;Q96MI9;Q9UPW5;P291  
44;A5LHX3;Q9UKC9;Q14674;Q16740;Q4J6C6;Q9Y4P1;P55212;P20618;Q8TAA3;P40337;Q9Y5K5;Q9HC  
62;Q14790;P28062;P60900;P55210;Q92560;O15205;Q0VVDG4;Q13867;Q9NY33;Q400G9;Q8NDL9;Q9UK  
99;O14818;P49721;Q92905;Q9H6P5;Q12765;Q5W0Q7;A6NFU8;Q9NRD1;Q15008;P43686;P42575;P257  
88;Q96SW2;P28066;Q9GZR1;Q9BSY9;Q8WTU0;Q9NQC7;Q5TDH0;Q9H300;P10144;Q14999;Q03154;Q96F  
W1;P28072}

20085 Pathogen[ P03383] interacts with 46 human  
partners:{P55212;P40337;P25789;P60900;O60907;P40306;Q92905;Q9Y4P1;Q96SW2;P28838;P497  
21;P20618;P48147;Q9BQI9;P61088;P54252;Q14674;Q96HI0;Q12765;Q6ICB0;Q13867;Q8WXC3;P257  
86;Q9Y5K5;P28072;P28065;P28066;Q9UKC9;Q9HC62;Q9H3M9;P28074;P49720;Q8TAA3;Q9NRD1;P280  
62;P60896;P48556;O14818;O15205;Q9UMX1;Q99436;P28070;Q9GZR1;Q14999;P25787;P25788}

20086 Pathogen[ P03410] interacts with 74 human  
partners:{Q400G9;Q96FW1;Q9H3M9;P28070;O15205;P10144;Q0VVDG4;Q9NRD1;Q99497;Q96SW2;Q9UK  
99;Q9UPW5;P25786;Q96FV2;Q8NDH3;Q15008;Q5TDH0;Q9Y4P1;P60900;Q12765;P42575;Q9NQ35;P481  
47;O15519;Q92905;Q13867;Q96HI0;Q8TAA3;P48556;P49721;P54252;Q9GZR1;P61088;A5LHX3;Q8WT  
U0;Q14674;Q99436;P28838;Q9NXJ5;P40306;P22695;Q86TL0;Q96KR4;P25787;Q9HC62;Q6ICB0;P608  
96;P28062;Q9UKC9;O14818;A6NFU8;O00303;P25789;P49720;Q8WXC3;Q9Y5K5;Q496Y0;Q9BQI9;Q925  
42;Q9H6P5;P28072;Q9NY33;P25788;Q16740;P55212;P28066;Q9UMX1;O60907;P28065;P20618;P403  
37;Q9BSY9;P28074;P55210}

20087 Pathogen[ P14075] interacts with 47 human  
partners:{P25788;P28066;Q8TAA3;P60900;P61088;P55212;P49720;Q9Y4P1;P48556;Q96FW1;P280  
70;P49721;Q9BQI9;P54252;Q6ICB0;Q96SW2;Q96HI0;Q14999;P28062;P28074;P28065;Q8WXC3;Q9HC  
62;P25786;Q9UKC9;O14818;O60907;P28072;Q13867;P60896;Q9NRD1;P25787;Q14674;Q9H3M9;P206  
18;P40337;Q92905;P40306;P28838;O15205;Q99436;Q12765;Q9UMX1;Q96FV2;Q9GZR1;Q9Y5K5;P257  
89}

20088 Pathogen[ P0C206] interacts with 88 human  
partners:{Q9NQC7;Q9UKC9;Q99436;P28062;P10144;Q9NQ35;P40306;P28065;Q9NXJ5;Q96KR4;Q9UD  
Y8;P25786;Q9Y5T5;Q9UMX1;P25788;Q93008;P29144;Q8NDL9;Q96HI0;O60907;Q9Y4P1;P25787;P481  
47;O75604;Q496Y0;P49720;Q8IUQ4;O95630;Q05086;Q9HC62;P28838;P55212;P60900;Q93009;O152  
05;Q92542;Q99497;Q6ICB0;P54252;Q9H0E7;O15519;A5LHX3;Q9Y5K5;P22695;P25789;Q13867;Q149  
99;Q9NRD1;P61088;Q9GZR1;Q96SW2;Q9BSY9;Q9H3M9;P20618;Q8TAA3;P28070;Q96FW1;Q16740;Q9NY  
33;Q14790;P28066;Q86T82;Q6GQQ9;P42574;O14818;Q12765;Q8NDH3;P28072;Q9UHP3;Q9UKT8;Q146  
74;Q86TL0;P28074;P42575;Q9UK99;P49721;Q96FV2;Q9BQI9;Q9UPW5;P55210;O00303;P60896;Q8WT  
U0;P48556;Q92560;P40337;Q8WXC3;Q92905}

20089 Pathogen[ P03363] interacts with 47 human  
partners:{O15205;P63131;P63119;Q9Y5K5;O15519;P10265;P51784;Q6GQQ9;P60896;Q9UMX1;Q9UH  
P3;O75604;O60907;P63121;P54252;P40337;Q9Y6I0;P10144;Q05086;P61088;Q13867;Q92560;P552  
12;Q14999;Q9UK99;P63124;Q9HC62;Q86T82;Q8WXC3;Q9UKT8;Q14674;Q96SW2;Q9BXU7;Q96HI0;P552  
10;Q9Y4P1;Q9BQI9;Q12765;Q9GZR1;Q9UKC9;Q9NRD1;Q6ICB0;P63129;Q93008;Q92905;Q96FW1;O003  
03}

20090 [Cluster 1827]GO:0006730+P biological\_process [name] one-carbon metabolic process  
[def] "The chemical reactions and pathways involving the transfer of one-carbon units in  
various oxidation states." [GOC

20091 Pathogen[ Q2Q067] interacts with 2 human partners:{Q14749;P34896}

20092 Pathogen[ P0C214] interacts with 10 human  
partners:{Q05932;Q86XF0;O43865;P34897;P00374;Q14749;P34896;P23526;P11586;Q9NZL9}

20093 Pathogen[ P03346] interacts with 4 human partners:{P23526;Q9NZL9;Q14749;O43865}

20094 Pathogen[ Q85601] interacts with 4 human partners:{O43865;P34896;P23526;Q14749}

20095 Pathogen[ P14079] interacts with 10 human  
partners:{Q86XF0;P00374;P34897;Q9NZL9;O43865;Q14749;P00915;P23526;Q05932;P34896}

20096 Pathogen[ P03383] interacts with 2 human partners:{P34896;Q14749}

20097 Pathogen[ P03410] interacts with 9 human  
partners:{Q14749;P00374;Q86XF0;P23526;Q05932;O43865;Q9NZL9;P34897;P34896}

20098 Pathogen[ P14075] interacts with 2 human partners:{P34896;Q14749}

20099 Pathogen[ P0C206] interacts with 8 human  
partners:{Q9NZL9;P00915;P34897;O43865;P34896;P23526;Q14749;Q05932}

20100 Pathogen[ P03363] interacts with 2 human partners:{Q14749;O43865}

20101 [Cluster 1828]GO:0080182+P biological\_process [name] histone H3-K4 trimethylation  
[def] "The modification of histone H3 by addition of three methyl groups to lysine at  
position 4 of the histone." [GOC

20102 Pathogen[ Q2Q067] interacts with 3 human partners:{Q6PD62;Q9GZS3;Q92541}

20103 Pathogen[ P0C214] interacts with 3 human partners:{Q92541;Q6PD62;Q9GZS3}

20104 Pathogen[ P03346] interacts with 3 human partners:{Q6PD62;Q92541;Q9GZS3}

20105 Pathogen[ Q85601] interacts with 3 human partners:{Q6PD62;Q9GZS3;Q92541}

20106 Pathogen[ P14079] interacts with 3 human partners:{Q92541;Q9GZS3;Q6PD62}

20107 Pathogen[ P03383] interacts with 3 human partners:{Q6PD62;Q92541;Q9GZS3}

20108 Pathogen[ P03410] interacts with 3 human partners:{Q6PD62;Q92541;Q9GZS3}

20109 Pathogen[ P14075] interacts with 3 human partners:{Q92541;Q6PD62;Q9GZS3}

20110 Pathogen[ P0C206] interacts with 3 human partners:{Q6PD62;Q92541;Q9GZS3}

20111 Pathogen[ P03363] interacts with 3 human partners:{Q9GZS3;Q92541;Q6PD62}

20112 [Cluster 1829]GO:0044205+P biological\_process [name] 'de novo' UMP biosynthetic  
process [def] "The chemical reactions and pathways resulting in the formation of UMP,  
uridine monophosphate, starting with the synthesis of (S)-dihydroorotate from  
bicarbonate\_ UMP biosynthesis may either occur via reduction by quinone, NAD(+) or



oxygen." [GOC

20113 Pathogen[ Q2Q067] interacts with 1 human partners:{P11172}

20114 Pathogen[ POC214] interacts with 1 human partners:{P11172}

20115 Pathogen[ P03346] interacts with 1 human partners:{P11172}

20116 Pathogen[ Q85601] interacts with 1 human partners:{P11172}

20117 Pathogen[ P14079] interacts with 1 human partners:{P11172}

20118 Pathogen[ P03383] interacts with 1 human partners:{P11172}

20119 Pathogen[ P03410] interacts with 1 human partners:{P11172}

20120 Pathogen[ P14075] interacts with 1 human partners:{P11172}

20121 Pathogen[ POC206] interacts with 1 human partners:{P11172}

20122 Pathogen[ P03363] interacts with 1 human partners:{P11172}

20123 [Cluster 1830]GO:0071169+P biological\_process [name] establishment of protein localization to chromatin [def] "The directed movement of a protein to a part of a chromosome that is organized into chromatin." [GOC

20124 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96ES7}

20125 Pathogen[ POC214] interacts with 1 human partners:{Q96ES7}

20126 Pathogen[ P03346] interacts with 1 human partners:{Q96ES7}

20127 Pathogen[ Q85601] interacts with 1 human partners:{Q96ES7}

20128 Pathogen[ P14079] interacts with 1 human partners:{Q96ES7}

20129 Pathogen[ P03383] interacts with 1 human partners:{Q96ES7}

20130 Pathogen[ P03410] interacts with 1 human partners:{Q96ES7}

20131 Pathogen[ P14075] interacts with 1 human partners:{Q96ES7}

20132 Pathogen[ POC206] interacts with 1 human partners:{Q96ES7}

20133 Pathogen[ P03363] interacts with 1 human partners:{Q96ES7}

20134 [Cluster 1831]GO:0060173+P biological\_process [name] limb development [def] "The process whose specific outcome is the progression of a limb over time, from its formation to the mature structure. A limb is an appendage of an animal used for locomotion or grasping. Examples include legs, arms or some types of fin." [GOC

20135 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9NSC2;P50222}

20136 Pathogen[ POC214] interacts with 2 human partners:{P50222;Q9NSC2}

20137 Pathogen[ P03346] interacts with 4 human partners:{Q9NSC2;Q9HBG6;P50222;Q9P2D1}

20138 Pathogen[ Q85601] interacts with 3 human partners:{Q9P2D1;P50222;Q9NSC2}

20139 Pathogen[ P14079] interacts with 3 human partners:{Q9P2D1;P50222;Q9NSC2}

20140 Pathogen[ P03383] interacts with 2 human partners:{P50222;Q9NSC2}

20141 Pathogen[ P03410] interacts with 4 human partners:{P50222;Q9P2D1;Q9HBG6;Q9NSC2}

20142 Pathogen[ P14075] interacts with 2 human partners:{Q9NSC2;P50222}

20143 Pathogen[ POC206] interacts with 3 human partners:{Q9NSC2;Q9P2D1;P50222}

20144 Pathogen[ P03363] interacts with 2 human partners:{Q9HBG6;P50222}

20145 [Cluster 1832]GO:0001953+P biological\_process [name] negative regulation of cell-matrix adhesion [def] "Any process that stops, prevents, or reduces the rate or extent of cell adhesion to the extracellular matrix." [GOC

20146 Pathogen[ Q2Q067] interacts with 4 human partners:{P31268;P41182;P42771;P27986}

20147 Pathogen[ POC214] interacts with 3 human partners:{P42771;P41182;P27986}

20148 Pathogen[ P03346] interacts with 4 human partners:{P31268;P42771;P41182;P27986}

20149 Pathogen[ Q85601] interacts with 3 human partners:{P27986;P42771;P41182}

20150 Pathogen[ P14079] interacts with 2 human partners:{P41182;P42771}

20151 Pathogen[ P03383] interacts with 2 human partners:{P27986;P42771}

20152 Pathogen[ P03410] interacts with 3 human partners:{P42771;P27986;P41182}

20153 Pathogen[ P14075] interacts with 2 human partners:{P42771;P27986}

20154 Pathogen[ POC206] interacts with 4 human partners:{P41182;P42771;P31268;P27986}

20155 Pathogen[ P03363] interacts with 3 human partners:{P31268;P27986;P42771}

20156 [Cluster 1833]GO:0045844+P biological\_process [name] positive regulation of striated muscle tissue development [def] "Any process that activates or increases the frequency, rate or extent of striated muscle development." [GOC

20157 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9ULH7}

20158 Pathogen[ POC214] interacts with 1 human partners:{Q9ULH7}

20159 Pathogen[ P03346] interacts with 1 human partners:{Q9ULH7}

20160 Pathogen[ Q85601] interacts with 1 human partners:{Q9ULH7}

20161 Pathogen[ P14079] interacts with 1 human partners:{Q9ULH7}

20162 Pathogen[ P03383] interacts with 1 human partners:{Q9ULH7}

20163 Pathogen[ P03410] interacts with 1 human partners:{Q9ULH7}

20164 Pathogen[ P14075] interacts with 1 human partners:{Q9ULH7}

20165 Pathogen[ POC206] interacts with 1 human partners:{Q9ULH7}

20166 Pathogen[ P03363] interacts with 1 human partners:{Q9ULH7}

20167 [Cluster 1834]GO:0000122+P biological\_process [name] negative regulation of transcription from RNA polymerase II promoter [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of transcription from an RNA polymerase II promoter." [GOC

20168 Pathogen[ Q2Q067] interacts with 287 human partners:{Q9HC78;Q14526;Q13118;P25490;Q6VMQ6;Q9Y6X8;O75832;O43364;Q12837;O14744;Q9UPN9;O75461;P56524;Q9BY41;P15884;Q9HAU4;O75925;Q9Y3F4;Q13033;Q5VTD9;O00267;P06400;Q9NPF5;Q01094;Q9UKV0;Q8WW38;P40763;P01106;O14503;Q9HAZ2;Q16666;Q9Y3T9;P67809;Q6PD62;Q13485;Q9UN51;P10589;P35680;Q12986;P13056;P31268;Q9UHF7;Q6P1J9;Q9UBB5;Q15596;P35712;P41182;P54259;P10828;Q9HC52;Q15326;P51531;Q99708;Q8TD23;Q9NQ87;Q9UJG1;Q96IT1;Q15697;O96004;Q92985;Q96T88;P37275;Q9Y6K1;Q9NVW2;O00257;O75820;Q9NZI6;P50548;Q9ULV5;Q6P1N0;Q13547;P14373;O00712;Q99684;P39880;P17483;P14316;O94776;O15379;P36956;A6NFD8;P41134;O605

35;Q14192;Q92800;O95503;P15976;O95931;Q96ST3;O15350;Q04727;Q96T58;Q8WUF5;P51610;Q96K30;P63279;Q8NSD0;O14776;Q96MH2;P38935;P11473;Q15022;O43829;Q8NHM5;Q8NF57;O95416;Q86UE4;P48552;O75446;P35227;P61077;B2RXF5;Q9BQI9;Q9UBC3;Q08050;Q9Y5Z7;Q96IF1;P27797;Q9UQL6;O43524;Q9NYF0;Q9NRG4;Q9UHI6;P23769;Q94992;O14980;P35548;Q6W2J9;Q15699;Q14938;Q9BQ70;P40337;Q99750;Q969S8;O14867;Q96BD5;P26358;Q14585;Q99576;Q14653;Q9UKY1;P62263;P17098;O75437;P12755;Q13360;P84022;Q63ZY3;Q9ULM3;Q60284;P51668;Q01658;Q8N895;Q92541;Q9UBK9;Q92769;O00255;O15105;Q06330;Q9GZV5;O75444;Q13127;Q9NSA3;P28324;Q9H116;P48382;P09874;P51532;Q6RSH7;Q96PU5;P86452;Q8WVJ9;Q9ULU4;P35226;P35869;Q9Y6B2;Q9GZN2;Q92993;O60907;P10599;P14651;Q9UPW6;Q8WUI4;Q15796;O60765;Q02556;Q99496;O14770;Q96JN0;Q9NX63;Q86VE0;Q13363;P41162;P51786;Q15466;P19838;P28749;Q15583;O75360;Q07687;Q93008;O60248;P12757;P35813;P0CG47;Q13569;O95983;Q96QT6;Q9BZK7;Q15545;Q15170;Q13416;Q13761;Q9UMQ3;P16989;O95238;Q9Y618;P43356;Q9HBM6;Q04724;Q8IUR6;Q9Y5J3;Q8N488;P0CG48;O60504;Q8N7H5;P47928;O95125;Q9NP71;Q92793;Q8WYK2;Q14582;Q5TGS1;Q9NSC2;Q01826;P63272;Q9H2F5;P35232;Q9HBD4;P62987;P26651;Q16576;O75953;P42226;Q5VWG9;Q96IZ0;P23497;Q71SY5;P10242;P06733;P78318;O75376;Q8IXJ9;Q9UMX1;Q9H3M7;Q16649;P23297;Q00987;P52737;Q14781;Q9UQR1;Q66K89;P4224;P49918;Q96EY1;O94763;Q13227;Q9UI36;P43355;Q16526;Q12830;P54821;Q02078;Q5T0F9;Q06546;P49715;P18146;Q15906;P17947;O96028;P15822;Q14693;Q8N2W9;P33076;P08651;Q9NRC8;P62979}

20169

Pathogen[ P0C214] interacts with 267 human

partners: {Q92993;O75444;Q14526;Q9Y3T9;P35226;Q13761;P35813;P35227;Q96T58;Q15697;Q9Y5Z7;Q04727;Q43829;Q9HAU4;Q15022;P35869;P16989;P51610;Q71SY5;O95238;Q06546;Q13363;O75461;Q9UHF7;Q13547;P12757;P78318;Q6VMQ6;Q96JN0;P62263;Q8NSD0;P19838;Q8WUF5;O75925;Q96IZ0;Q969S8;P48552;O75820;Q00987;O00267;Q9H3M7;P33076;P42226;P15884;Q8TD23;O60907;Q15350;Q8N2W9;Q8NF57;Q9HBD4;P23769;Q92793;P50548;Q9Y5J3;P67809;Q13033;Q96QT6;Q99708;P84022;O75437;O95125;P17947;P56524;Q9GZV5;Q6W2J9;Q9Y6K1;Q99576;Q12986;Q96BD5;Q15906;O95931;O60535;P63279;P42224;P37275;Q16666;O95503;Q06330;Q04724;Q15545;P38935;Q9UMQ3;Q15170;O00308;P51786;Q9H2F5;Q92541;Q99750;Q86UE4;Q96T88;P43355;P14651;Q5VTD9;P86452;Q93008;O14776;P61077;Q9BQI9;Q2VWA4;P48382;Q5VWG9;Q02078;O14503;Q9NSA3;P13056;Q9HC78;Q01094;O75832;O75446;Q86VE0;O14867;O00712;Q8IXJ9;Q12837;Q92985;O14980;Q07687;P47928;Q9BQ70;P41134;Q96IT1;O60765;O95416;Q96MH2;O94776;Q8N488;Q02556;O95983;Q9HBM6;P49918;P0CG48;P26358;Q6P1J9;Q9Y6B2;Q9NVW2;Q13485;Q9NX63;Q92769;O15105;P63272;Q9HAZ2;P28324;Q9UKV0;Q8WW38;O00257;Q9UNS1;P02100;P40337;Q8N7H5;Q16576;O75376;Q49AN0;Q15796;Q9NSC2;Q9UHI6;Q14192;P41182;Q9Y6X8;Q96K30;Q9NP71;P17098;O15379;P06733;Q9Y3F4;P12755;Q13127;Q13227;Q14653;Q9UI36;O75360;Q99496;P26651;P10242;P62987;Q9ULV5;P39880;P23497;Q8IUR6;O94992;P43356;Q9UMQ3;Q8WVJ9;Q14781;Q01826;Q9NZI2;P28749;P18146;P27797;Q16526;P0CG47;Q01658;Q9BZK7;Q96ST3;Q13416;P10599;Q14585;P40763;O60504;O96004;Q9UPW6;Q6P1N0;Q9ULU4;Q99684;O14770;P41162;P08651;Q9NRC8;Q9UBB5;P10828;Q15596;Q8WUI4;P51668;Q13360;Q13569;P14373;Q9UJG1;O94763;P35232;Q9NQR1;Q92800;Q8N895;P51531;P62979;Q15326;Q9UQR1;Q9UBK9;Q9NQ87;Q9Y618;Q9NRG4;Q9UPN9;Q6PD62;P15822;Q9NYF0;O60284;Q15699;Q9UMX1;P23297;Q66K89;Q5TGS1;P01106;P14316;Q60248;P35712;Q9ULM3;Q9UQL6;P06400;O75953;P35548;Q96EY1;Q9HC52;O00255;Q12830;P52737;Q63ZY3;Q15466;Q96PU5;Q9NPF5;P09874;Q5T0F9;P51532;Q96028;Q6RS H7;Q14693;Q9H116;Q9BY41;Q8NHM5}

20170

Pathogen[ P03346] interacts with 355 human

partners: {Q06330;Q14781;Q969S8;Q9BZE0;Q6PD62;Q96ST3;Q9UPN9;P54821;Q9Y467;Q12830;Q9NZU5;Q99742;Q9UHF7;Q13263;Q6RSH7;Q9Y6K1;Q02078;P38935;Q16666;P35813;P11473;P31268;P28324;Q9HBD4;Q9HAU4;P86452;O60907;Q96PU5;O75446;P14373;Q9H116;A6NFD8;Q9UPW6;O60765;Q9UQR1;Q86UE4;O60248;P43355;Q9Y4X4;P17098;O14901;P12757;Q92800;Q9NU63;P36956;P35548;Q02535;Q8WW38;Q9H6Q3;Q9Y5Z7;Q93008;P62987;O15379;Q9NQR1;Q71SY5;Q8NFW5;P23297;P06400;Q8TD23;Q9Y5Z7;P35226;Q9GZV5;Q12772;P48382;P51786;Q99626;O94763;Q12837;Q15911;P02100;Q15466;Q9UJQ4;Q9NZI2;P14316;P23769;Q99708;P25490;Q15583;O95983;P51610;Q49AN0;Q9NSC2;Q8IY A7;P50548;P20264;P0CG48;O75820;P25800;Q9HC52;Q15796;P41225;O14744;P56524;Q9UNS1;O00712;Q15906;Q96QT6;O95931;Q12986;P35227;P33076;Q8N895;P52737;O95238;O94776;P13056;P56177;Q96IF1;Q9ULM3;Q08050;P42226;Q8IUR6;Q9UBC3;P10588;P63279;Q16526;O00257;P16989;P26358;O15350;P49918;O15105;O75626;O43316;P63272;Q8NF57;P13378;P17483;Q01094;Q2VWA4;P51668;P49715;Q66K89;Q9Y5J3;O15055;P61077;O14867;Q9BQI9;Q00987;O75444;P78426;O15534;O14503;P06733;Q9HC78;Q9NRG4;Q14919;O75832;Q14526;O43680;O96004;P01106;O43364;P41162;Q6P1N0;P51843;O75925;Q8NBF1;Q15699;Q9NSA3;Q9NP71;Q14582;Q9BQ70;Q15170;P84022;Q96D77;O14980;P17542;Q96IZ0;P10242;Q9UI15;Q9C0J9;Q13227;O43829;Q8NSD0;Q9ULU4;P15976;O95125;Q13033;Q9GZN2;Q06546;P67809;Q15596;O00255;Q9Y3F4;O95863;Q6VMQ6;Q86VE0;Q02556;P41134;Q15022;Q99684;Q92769;Q14192;B2RXF5;Q13118;Q13547;P08651;Q99576;Q04724;O60284;Q9HBM6;Q86VZ6;Q13761;Q9UHI6;Q8WVJ9;Q14585;Q9BY41;Q02548;Q99750;Q96K30;Q9Y6X8;P84550;P37275;O75604;P35680;Q9NQ87;P31273;Q16649;Q9H2F5;Q15475;O14627;Q9Y3T9;Q16576;P42224;Q9Y2Y4;Q8WUI4;Q9Y5R6;Q92541;Q5TGS1;O75376;P50539;Q99496;Q8WUF5;Q14653;O00267;Q8N2W9;Q5VTD9;Q14190;P09874;Q96T58;Q9NQ03;P43356;P62979;P27797;P41182;P40337;P28749;Q92481;Q9NYF0;Q96BD5;Q13516;Q63ZY3;P35712;O15151;Q15326;Q9UKV0;O75437;P0CG47;Q13569;Q9BZK7;Q04727;O75461;Q13416;P10828;P51858;P17947;Q01658;Q99929;Q13363;P10599;Q9Y6B2;P48552;A9YTQ3;O94992;P35232;Q96MH2;O60535;P19838;O60504;P23497;Q13485;Q8IXJ9;O75360;Q9UKY1;Q9NX63;Q96IT1;Q8NHM5;P18146;Q92993;Q92793;P62263;P39880;Q92985;Q15697;P51531;Q8N488;Q13360;Q9Y458;P35869;Q15545;P56645;Q9HAZ2;P26651;Q9ULV5;Q9UI36;Q5VWG9;P61925;Q9Y618;P40763;O43524;Q96JN0;Q8NEA6;Q9UBK9;P56915;Q9UMX1;P15822;O75953;Q9UBB5;Q9UIW0;Q9H3M7;Q9UMQ3;P53539;Q9NRC8;Q9UQL6;Q96EY1;P78318;O95416;O95503;Q9UJG1;Q01826;Q6W2J9;P54259;Q6P1J9;Q8WYK2;Q14938;Q96T88;O14770;Q8N7H5;O75506;Q9NVW2;Q5T0F9;P15884;P14651;O14776;O00488;Q13127;P47928;O96028;O00308;Q14693;Q9NPF5;Q96SF7;Q9UJU5;P10589}

20171

Pathogen[ Q85601] interacts with 303 human

partners: {Q9UQR1;P54259;P01106;P18146;Q96IZ0;Q969S8;Q6PD62;Q9UPN9;Q96MH2;Q9NRC8;P51786;Q9NZU5;Q9UHF7;Q9UKV0;Q9H2F5;Q02078;Q16666;P09874;O75360;P11473;P33076;Q9HAU4;Q131

27;P14373;O43316;P14316;P41134;Q02556;Q15466;Q9UPW6;O15534;Q8IUR6;P50539;P15976;Q9BY41;O94776;Q04724;Q96BD5;Q9ULV5;P86452;Q9UQL6;P08651;O15151;Q06546;P50548;Q8WW38;P56645;Q6P1J9;Q9NQR1;P06400;Q06330;Q13360;Q96QT6;P38935;Q8TD23;O60907;Q8N5F7;Q9H116;P40337;P15822;Q99708;O75832;P40763;Q49AN0;P23769;Q9Y2Y4;Q9NYF0;O75437;P12757;Q15545;O60284;O95931;Q12772;P25490;Q8N895;Q8IXJ9;O43364;Q9Y618;O14503;P35712;P06733;Q15583;Q96P U5;P10242;Q9VZV5;P27797;Q13363;P0CG48;P26358;Q8N2W9;P23297;Q15596;P05983;O95503;Q96004;O14744;Q2VWA4;P41162;P15668;Q9NP71;Q93008;P81077;P63279;P02100;O14776;P51610;O75953;P62263;Q9BQI9;P12755;O95125;Q9ULU4;Q12830;Q5VWG9;Q9HC78;P51531;P26651;Q9HBM6;Q15022;Q13263;Q14526;O75820;Q8NEA6;P10599;Q9Y6B2;O75444;Q14653;Q9BQ70;Q15170;Q92541;Q8NB F1;P51532;O75461;Q9UMQ3;Q96JN0;P17098;Q14582;Q9H6Q3;Q16649;P36956;Q5TGS1;O95416;Q92769;A6NFD8;O60765;Q15699;P42226;O60535;Q16576;Q9ULM3;Q04727;Q99576;Q14192;Q9UHI6;Q9UI36;Q71SY5;O60248;Q63ZY3;Q8NHM5;Q99750;Q14585;Q9Y6X8;P35548;Q9Y6K1;P35680;Q9NQR87;Q96T88;Q92985;Q9Y3F4;O00255;P67809;Q01826;O75376;P42224;A9YTQ3;Q01658;O43829;Q86UE4;Q13033;Q13569;Q99496;Q13118;Q8WUF5;O00267;O14867;P48382;Q96T58;O75446;O94992;O14980;Q99684;P62979;Q9NZI6;P28749;Q9HBD4;Q96IF1;P84022;Q9Y3T9;Q86VE0;P49715;O15055;Q15326;Q9Y5Z7;Q6RSH7;Q15906;P0CG47;P49918;P37275;Q9BZK7;P56524;Q13416;O15379;Q5VTD9;P52737;P17947;Q08050;Q9NX63;P35232;P35869;P63272;Q9GZN2;P35226;O15105;O94763;O60504;O15350;Q9NR G4;Q13547;P43356;Q66K89;P14651;Q9UKY1;O75626;Q96IT1;P62987;P13056;P48552;Q9NSC2;Q92993;O00712;P10828;P41182;Q92793;P39880;Q15697;Q8WUI4;Q8N488;Q92800;Q6VMQ6;Q16526;Q96K30;O00257;P35813;P43355;Q9UBK9;Q00987;P19838;Q9NSA3;B2RFX5;Q12837;Q6P1N0;Q13485;O75925;P16989;Q9UMX1;Q9UBB5;Q9H3M7;Q9NU63;P53539;Q13227;Q8N5D0;P28324;Q6EY1;P78318;Q9UJ G1;Q07687;Q8WYK2;Q14938;Q01094;Q9HC52;O14770;Q8N7H5;Q9NVW2;Q9Y5J3;Q5T0F9;P15884;Q8WV J9;Q15796;O95238;P47928;Q9UBC3;Q6W2J9;O96028;Q14693;P35227;Q12986;Q13761;Q9NPF5;Q9HA Z2;Q14781;Q96ST3;Q9UNS1;P10589}

20172 Pathogen[ P14079] interacts with 291 human

partners: {O14776;Q9UQL6;Q96JN0;Q14585;P48552;O60284;Q9UQR1;O15379;Q9UPW6;Q8N2W9;Q12986;Q8N895;P17098;P13056;Q8WYK2;Q13416;Q9HAZ2;O14867;P25800;P33076;P09874;Q96K30;Q8TD23;P12755;O95416;P63279;Q9Y2Y4;Q9BZK7;P14373;O43364;P35869;Q02078;O95125;Q8N5D0;P0CG48;Q06413;Q15596;Q9GZV5;Q06546;Q16526;Q14693;P28749;Q16649;Q14653;P02100;O75437;Q13118;Q9NRG4;Q9Y6K1;Q8IXJ9;Q14192;Q9BQI9;O75626;Q14938;Q15911;P67809;O95503;P11473;P35680;Q96ST3;Q8WUF5;P10828;Q92541;Q92985;Q92793;Q13033;Q9HC52;Q9UBB5;Q49AN0;Q96958;P39880;Q15583;Q8WUI4;P48382;Q2VWA4;Q99576;P52737;Q15699;Q86VZ6;P51532;Q15170;Q99684;Q01826;O60907;P35712;Q5T0F9;Q9UMX1;Q8WVJ9;O95931;P51531;Q9UKV0;O75832;Q9GZN2;O75446;Q96004;Q92800;P15976;P35232;Q6P1N0;Q9Y3F4;Q8NHM5;O60504;Q9NZU5;P62979;O43829;P49918;Q9UHI6;O75461;Q9HAU4;Q9ULM3;P06733;P61077;Q9NU63;Q12837;Q6PD62;P02008;P23497;P51610;O15350;P62987;Q16576;Q00987;P08651;O94763;P35813;Q12772;O75506;Q9UKY1;P43356;Q6W2J9;P42226;Q06330;P40337;Q9Y5Z7;Q96QT6;Q9Y3T9;O14744;P41182;Q15906;Q99496;Q6VMQ6;Q9UBC3;P51668;O00257;Q14781;Q5VTD9;Q96BD5;P16989;Q9UPN9;P62263;Q9NPF5;O95238;Q92769;Q96IF1;O60248;Q99708;P49715;Q9NZI6;O75820;P63272;Q12830;Q66K89;Q9NQR1;Q9Y5J3;Q15697;Q9UBK9;Q9BY41;O75953;Q6EY1;Q075360;Q9UJG1;Q5TGS1;Q9UJQ4;Q13360;A9YTQ3;P26358;P15822;P51786;O95983;O94992;Q9HC78;P50539;Q13227;Q9UI36;Q86UE4;Q9UMQ3;Q9H2F5;Q9NQ03;P23297;P01106;Q9ULU4;Q9H6Q3;O75444;P56645;Q9Y4X4;P42224;O00488;P10588;P35226;Q86VE0;P50548;Q71SY5;Q8N488;Q07687;O14770;Q04724;P35227;Q63ZY3;O75925;B2RFX5;P10599;Q6RSH7;O75376;P54259;P41162;P15884;Q9H3M7;P41134;Q9BQ70;P38935;P12757;Q12830;Q13761;Q02556;Q8NEA6;P10589;O14503;Q15055;Q15466;Q96JY0;Q13569;Q9Y6B2;P10242;Q6P1J9;P56524;Q13127;Q96IT1;Q9NRC8;P25490;P28360;O15105;O14901;Q9Y6X8;O00267;P0CG47;Q14582;Q96MH2;O94776;O15151;Q9UN S1;P36956;Q9ULV5;Q01094;A6NFD8;P86452;O60765;O00255;P43355;Q8N7H5;Q9NP71;P23769;P14316;Q01658;Q9BEZ0;Q5VWG9;Q9UHF7;P78318;Q15022;Q15326;Q96EY1;Q04727;Q8WW38;P47928;P37275;Q9NSC2;Q8NBF1;O15534;P61925;Q92993;Q16666;Q8IUR6;Q9HBM6;P14651;Q9H116;Q99750;Q96T58;Q9NYF0;Q15545;O00712;Q8N5F7}

20173 Pathogen[ P03383] interacts with 241 human

partners: {Q9UQR1;P35227;Q96MH2;Q9Y618;Q9UNS1;Q8IXJ9;Q06330;Q13761;P16989;Q12830;O75925;P14316;P35712;Q13485;Q6P1J9;Q9HBD4;P63272;Q14653;P33076;Q9UPW6;Q9ULM3;P62987;Q8IUR6;Q9NX63;O60765;Q86UE4;O60248;O94776;P40337;Q15596;Q01094;O75376;Q8WVJ9;Q14526;Q9UQL6;Q07687;O95503;P01106;Q8WW38;O75437;Q6PD62;Q12986;Q04727;Q9UPN9;P23297;Q13360;Q96BD5;Q9NRG4;Q8TD23;O60907;P48382;O75360;Q8N5F7;Q9UMQ3;Q99576;Q01826;O00257;P23769;Q9UHI6;Q96IZ0;P37275;Q9NQR87;Q9HC52;Q9H2F5;Q9ULU4;O00712;Q6VMQ6;O75461;Q9HBM6;O95931;O14503;Q96QT6;P42226;P10599;Q92993;Q96K30;Q86VE0;Q8N2W9;P35813;Q04724;P17098;O00267;Q15022;P06400;O14744;P18146;Q6RSH7;P41162;Q66K89;Q9UBB5;Q9NP71;O60535;P61077;Q9BQI9;Q5VWG9;Q9Y3T9;Q9HAZ2;Q6P1N0;O14770;Q6W2J9;P08651;O75832;O96004;Q15326;P11473;O15105;P51610;Q9NSA3;Q92985;O94763;Q9BQ70;P86452;P84022;Q8N895;Q9Y6B2;P35548;Q9Y6K1;P28324;Q8N488;O95125;Q9ULV5;Q14192;O14980;Q9NPF5;Q92769;P09874;Q9NSC2;Q15466;Q12837;Q15697;Q9Y6X8;P51531;P15822;O15379;O15350;Q9Y3F4;O00255;Q16666;O43829;O14776;Q13569;Q9UJG1;Q96IT1;Q99496;P35232;O94992;Q15170;Q96JN0;Q96T58;Q99684;Q8WUF5;Q13547;P26651;P52737;Q9BY41;O75446;Q9NZI6;P28749;Q71SY5;Q99708;P10242;P23497;Q9H116;O95238;O95983;P62979;Q9UKV0;P39880;Q15906;Q9NYF0;P0CG47;P49918;Q99750;Q15796;Q9BZK7;P56524;Q92541;Q13416;Q63ZY3;Q9H3M7;P78318;P51532;Q02556;O60504;P12757;Q13227;P0CG48;Q96ST3;P38935;P43356;P50548;P51786;Q5TGS1;P48552;Q13033;P10828;P47928;Q8WUI4;P62263;Q15545;Q9UI36;Q15699;Q9UBK9;O75444;Q14585;P06733;P19838;P35869;P67809;P13056;Q01658;Q9GZV5;Q9UMX1;Q9UHF7;Q06546;O75953;Q9NQR1;P26358;Q96EY1;Q8N5D0;P17947;P63279;Q8N7H5;Q13363;Q16576;Q92793;Q02078;P35226;Q92800;Q969S8;Q5T0F9;P14651;Q9NRC8;P54259;P51668;Q13127;P43355;P27797;Q14693;Q14781;Q16526}

20174 Pathogen[ P03410] interacts with 290 human

partners: {P84022;Q9Y5J3;Q9UKV0;Q9UHF7;Q96QT6;Q9HC78;Q9ULU4;O14901;P35712;Q9UI36;Q8NBF1;B2RFX5;Q13227;P19838;P36956;O75461;P51610;O94763;O75925;P10599;P0CG48;Q16666;Q99708;P02008;Q14526;O95238;P35813;Q13360;Q15697;Q8WYK2;Q99496;Q9BY41;Q6W2J9;P61925;O955

03;P02100;P37275;P41162;Q5VWG9;Q8WVJ9;O60535;Q9HAZ2;P15822;O15151;O96004;Q9NSA3;Q13416;P12755;Q6PD62;Q66K89;Q9UMQ3;Q9UJG1;P01106;P16989;O00267;P17947;P63272;O95125;Q06330;P78318;Q96K30;A9YTQ3;Q14938;Q9NQ87;O75446;P14651;P10242;Q9NPF5;P15884;Q14653;O75444;P28324;Q12830;O95931;P06733;P43355;Q04724;Q9UBB5;P41134;Q9H3M7;O75437;Q8N2W9;A6NFD8;O75953;Q86VE0;P10828;Q15906;Q9Y3T9;Q9Y3F4;Q9UBK9;P06400;Q9H116;Q9ULM3;O75376;Q99684;P26651;Q26263;Q9UPW6;P35227;Q96ST3;O15055;O00712;Q96T58;Q8WW38;Q92541;P25490;Q14693;Q6VMQ6;Q8WUI4;Q16576;Q9GZV5;Q9UQR1;P11473;Q9UQL6;Q02556;Q9H2F5;Q8N7H5;Q06IF1;Q92800;P26358;P67809;Q5T0F9;Q13127;P25800;P08651;Q15583;Q12986;Q07687;P35548;P17098;Q92793;Q969S8;P38935;P48382;Q16649;Q9HBM6;Q92769;Q8NEA6;P52737;Q9Y6B2;Q5TGS1;Q15170;Q2VWA4;Q9NQ87;Q12772;Q9Y5Z7;Q86UE4;P56645;O15379;P56524;Q8IXJ9;Q13569;Q13033;Q01826;Q9NP71;Q15326;O15534;O95983;Q01658;P47928;Q13485;O75506;Q96IZ0;Q04727;O14776;P09874;Q16526;Q15466;P12757;P86452;Q9Y6X8;P51668;Q14585;Q6P1J9;O43364;Q13118;Q15699;Q49AN0;Q8N5D0;P51786;P41182;P51532;Q9NYF0;O60504;Q8IUR6;Q8N488;P39880;Q9NX63;Q99576;O15105;P42226;Q9UBC3;Q15596;Q96JN0;P51531;Q6RSH7;P28749;Q96IT1;P50539;Q9Y2Y4;P23769;Q13761;P62987;Q9UNS1;O94776;Q13547;Q01094;P35680;P23297;P63279;Q9BQI9;P54259;P10589;Q02078;O15350;Q9NZI6;P22263;Q9BZK7;Q9GZN2;P50548;O60248;Q00987;O75626;P49918;O43829;O14744;Q9BQ70;Q9ULV5;Q9NRC8;O00257;P14316;Q96BD5;O75360;Q8TD23;Q14781;Q14582;Q9Y618;Q92985;O60765;Q12837;Q9NSC2;P35232;Q9Y6K1;P18146;O75820;Q8N895;Q5VTD9;P35226;Q63ZY3;O95416;Q9HBD4;P48552;O00255;O14867;Q15796;Q9UQ4;Q9UHI6;Q92993;P40763;Q9NU63;Q9UKY1;Q9UMX1;O94992;O60907;P33076;P43356;Q99750;Q14192;Q96EY1;P15976;O14770;P0CG47;Q6P1N0;Q06546;Q15022;Q15545;Q9UPN9;O75832;O14980;P40337;P61077;O60284;Q96MH2;P13056;Q9NRG4;Q9H6Q3;Q8WUF5;P27797;Q71SY5}

20175 Pathogen[ P14075] interacts with 241 human

partners: {Q04727;O75953;Q14781;Q9BY41;P06733;Q96ST3;Q9NSC2;Q16576;P43355;P35869;Q9GZV5;P35813;Q9Y6K1;P23497;Q9H2F5;P50548;Q9Y3F4;Q63ZY3;Q9NX63;Q5TGS1;Q9HBD4;Q14526;Q969S8;P16989;P52737;O60248;Q96QT6;Q9UQR1;Q8IXJ9;Q8N488;P42226;O95503;P75832;Q14938;Q8N5D0;Q15906;P10828;Q86UE4;Q15697;O60765;P51532;Q8TD23;Q8N5F7;Q01658;O75444;Q96MH2;Q9H116;O75446;Q06546;O14776;P23769;Q96T58;P26651;Q9ULU4;P38935;P51610;P35548;Q12837;P56524;Q08050;P18146;Q99576;O95931;Q86VE0;P33076;Q6RSH7;O94776;O75925;Q9NQ87;P15822;P47928;Q96IT1;Q2800;Q8WUF5;Q9UKV0;Q8WW38;Q8N2W9;Q9UBB5;P63279;P10242;Q16666;Q15796;Q9UJG1;Q9NQ87;Q14585;Q13547;P61077;O94763;P26358;Q9BQI9;Q96IZ0;P13056;P11006;P39880;Q8WVJ9;Q92993;Q9Y618;Q5VWG9;Q07687;O14503;O75376;Q01826;Q9HAZ2;Q02556;P12757;P41162;O00257;O96004;P17098;Q13485;P35232;O94992;O00255;Q8N7H5;Q6P1J9;Q9NP71;Q9NPF5;O14980;Q9BQ70;Q92541;O14770;Q9UHI6;P0CG48;P62979;Q9ULV5;P28324;Q12986;Q15326;P49918;Q14653;Q9UPW6;O95983;O14744;Q12830;Q9Y6B2;Q6W2J9;O15350;Q9684;Q9UBK9;Q92769;Q96K30;Q9NSA3;P35712;P86452;Q6VMQ6;Q6PD62;Q9UPN9;Q9UHF7;Q9ULM3;P27797;P51531;P11473;Q9Y6X8;Q9HCS2;Q8N895;P48382;P17947;Q99750;P78318;P62987;P67809;O60907;Q15545;Q96BD5;Q9H3M7;Q13227;O75360;Q9UMQ3;Q01094;P08651;O15105;Q99496;P06400;Q02078;P14316;P43356;Q06330;Q9NZI6;P28749;O15379;Q66K89;Q9Y3T9;P0CG47;Q9BZK7;O00712;Q92793;P15884;Q9UNS1;Q13416;Q04727;Q16526;Q15699;Q13127;P35226;P48552;Q15022;Q9NRC8;Q15466;P19838;O60504;Q9UQL6;Q04724;P54259;Q13363;O95125;Q92985;P84022;P37275;Q8WUI4;Q13360;Q13569;Q96JN0;Q71SY5;P40337;O00267;Q9NYF0;P51668;Q99708;Q13033;Q8IUR6;Q6P1N0;Q9UMX1;Q9NRG4;O75461;P63272;Q15170;Q14192;O75437;O43829;P62263;Q96EY1;P09874;P35227;Q15596;Q5T0F9;P23297;O60535;Q14693;Q13761;P10599;Q9HBM6}

20176 Pathogen[ P0C206] interacts with 325 human

partners: {Q9UNS1;O43829;P06733;O00488;P84022;Q07687;P10588;Q8WUF5;Q86VZ6;P67809;Q9NQ87;Q96PU5;Q92769;P0CG48;Q9BZE0;Q16649;Q8IUR6;Q9Y3F4;Q15466;Q6PD62;O75832;Q06546;Q96ST3;Q15545;Q9H2F5;Q6VMQ6;P38935;Q9Y6K1;O14867;P27797;Q9NPF5;Q06330;Q9NP71;Q9UJG1;Q9HAZ2;Q9HCS2;Q96IZ0;Q13127;O60504;Q9UPN9;Q15911;P78318;P51532;P26651;Q9NSA3;Q9ULM3;Q9H6Q3;Q9NVW2;Q02078;Q99708;Q13263;Q5TGS1;P43356;P02100;O00308;Q9UBB5;Q9HAU4;Q9Y5F5;P35869;Q9UMX1;Q96DT7;O75925;P09874;Q93008;P25490;P08651;O75444;O60907;Q6W2J9;Q9NSC2;P48382;Q15697;O14744;P51531;Q96IF1;P41182;P54821;Q2VWA4;O95983;P35226;Q9NRG4;Q02548;O75604;P52737;P02008;Q15170;O00255;Q9UMQ3;O15534;Q9UKV0;Q8WW38;Q8N2W9;Q9C0J9;Q96MH2;Q8WYK2;P10242;P14651;Q96K30;A6NFD8;Q9Y5Z7;Q16666;P62263;P26358;Q92541;Q04727;Q92800;O60765;O75626;Q13547;P43355;P13056;Q13416;P49715;O94776;P31268;P36956;P17483;Q86VE0;O75437;Q92993;O14770;P15976;Q15699;Q15796;O95238;Q15326;P33076;Q8WVJ9;O95125;Q9Y6X8;Q14781;Q14938;Q9UJG1;O60284;P28749;P18146;P12755;O75360;Q8NEA6;O96004;Q92793;P54259;P10589;Q9GZV5;Q8N895;O60248;P41134;Q02556;Q12837;Q9GZN2;O15105;Q9NQ03;Q13569;Q9NX63;P41162;O15151;P19838;Q16526;Q14919;P10828;Q6P1N0;Q9ULV5;O75446;O00712;P56645;Q8N7H5;Q6RS87;P16989;Q8IXJ9;P12757;O94992;Q9ULU4;P35232;Q15379;Q9Y5J3;Q96JN0;Q12986;P51610;Q8N488;Q9UHF7;Q15906;Q92985;Q8WUI4;Q01658;P35680;Q96T88;P35548;Q8TD23;Q9HC78;P86452;O95931;Q9NQ87;Q9UPW6;P25800;O60535;Q01094;Q9UQR1;O96028;P15884;O95416;P62979;P50539;P53539;P28324;Q14582;Q96IT1;Q9Y4X4;P17947;Q8N8M5;Q5VWG9;Q8NBF1;Q9BZK7;O75376;O00267;Q9NRC8;P40763;Q13485;Q71SY5;O14776;Q15022;Q9H116;Q8N5F7;Q96T58;Q04724;P0CG47;Q99684;P23769;Q9Y6B2;Q08050;Q63ZY3;Q13422;Q9NZI6;P51786;O75953;P42226;Q9H3M7;Q15596;P37275;Q16576;P35712;O15055;O15350;Q01826;Q9HBM6;Q86UE4;O14901;Q9NYF0;Q9HBD4;Q5VTD9;O43364;Q14192;Q9UHI6;P01106;Q9UBK9;P61077;Q9UBC3;B2RFX5;Q9BQI9;Q96QT6;Q9BY41;P39880;Q14585;P84550;P62987;P56524;Q13033;Q14526;Q8N5D0;O00257;P14373;A9YTQ3;P23297;Q00987;P10599;Q13363;P61925;Q13118;P48552;Q49AN0;P15822;Q66K89;P42224;P47928;Q969S8;O95548;Q99576;Q96EY1;Q14693;Q13227;Q9NU63;Q9NZU5;Q9UI36;O75461;O2220;P51668;Q9Y3T9;Q12830;Q99750;Q9Y618;P14316;Q6P1J9;P11473;Q13761;Q12772;Q5T0F9;O43316;Q9BQ70;Q99496;P17098;O94763;Q96BD5;P56177;P35813;P63272;P40337;Q15583;Q9UKY1;O95503;Q13360;P35227;Q14653;Q9Y2Y4;P06400;Q9UQL6;P49918}

20177 Pathogen[ P03363] interacts with 319 human

partners: {Q9NPF5;Q5TGS1;Q86VE0;Q15911;P49918;Q14653;Q5VTD9;Q15699;P51858;O75953;Q96QT6;O75820;Q99684;P31273;O14901;Q9GZN2;Q9UIW0;O14744;O75461;Q8IXJ9;Q8NFW5;Q9Y3F4;Q166

49;Q6VMQ6;Q12830;Q99592;P10828;Q9UJQ4;Q9UHF7;Q92985;Q96T58;Q14938;Q15466;O75360;Q9Y5  
J3;P18146;Q13360;O00712;Q99576;P35227;Q9HAU4;Q99626;Q14582;Q13227;P48382;Q8N5D0;Q145  
26;O60535;Q9NZU5;P14373;Q13516;Q9UHI6;Q14781;P56177;Q9UMX1;Q96IZ0;Q71SY5;P54259;P864  
52;Q9BY41;P53539;Q99742;O94992;P17098;P08651;Q15022;Q06546;Q63ZY3;P50539;Q02556;P127  
57;P14651;Q9HC52;Q99929;Q15170;P37275;O75604;Q06330;O14980;Q9NQ87;P17947;O15379;Q9H2  
F5;Q99750;P51532;P06733;Q969S8;Q9BZK7;P25490;Q01826;O60765;Q9Y6X8;O75376;O60907;Q155  
45;Q9C0J9;Q9H3M7;Q9H6Q3;Q13033;O43316;Q96K30;Q8N488;Q66K89;O75437;Q9UQL6;Q9NYF0;P355  
48;O15151;Q99496;Q9UPN9;Q9Y6K1;P50548;Q9Y467;Q8WUF5;O15105;O00267;Q96JN0;O14867;Q047  
24;Q15596;Q86UE4;Q8NEA6;O75506;Q9UBK9;P19883;Q9Y5R6;P23497;P06400;P40337;P17483;P011  
06;Q9Y4X4;Q04727;Q12986;Q8WYK2;P28749;P35869;P42226;P56645;Q96IF1;O00488;Q86VZ6;P105  
88;Q13127;P11473;Q16666;Q96BD5;P51786;Q9NQ03;O43524;Q15326;Q6RSH7;Q96DT7;Q9ULU4;O754  
46;P15822;P48552;Q9Y5Z7;Q99708;Q08050;P13378;Q9NSA3;Q16576;Q13416;P20264;Q9UI36;Q49A  
N0;P56915;P52737;Q9NRG4;O95238;Q96PU5;Q6P1J9;Q8N5F7;Q9GZV5;Q9NZI6;P14316;Q01094;Q96J  
Y0;P35226;O75444;Q9UKV0;P27797;P61925;O94763;Q96ST3;Q9HBD4;Q14919;O95931;P78318;P411  
34;Q9UNS1;Q15796;O95983;P31268;P84022;Q8N895;Q9UKY1;P47928;O96004;P26358;Q9Y618;Q96I  
T1;Q15583;P62987;O75925;P63279;P54821;A9YTQ3;Q9Y3T9;Q13547;P19838;Q92793;Q15697;O951  
25;P51668;Q14585;P33076;O96028;P35712;Q13569;O00308;Q9HBM6;P10242;Q16526;Q8WUI4;Q9Y2  
Y4;Q13485;P26651;Q9ULV5;Q8TD23;P63272;Q9UQR1;P84550;Q92541;Q9C056;P15884;P41162;Q96T  
88;Q8IUR6;P35232;Q2VWA4;Q9H116;O15055;B2RXF5;Q6P1N0;Q9NQR1;P61077;Q9NVW2;Q9Y6B2;O147  
76;P16989;Q9BQI9;P09874;Q9NP71;Q02548;Q8IYA7;Q13363;Q8WW38;O95416;O43364;O60248;Q9UM  
Q3;Q9HC78;Q9NX63;Q6W2J9;Q9ULM3;O75626;Q13761;O43829;Q01658;O60284;P51531;P43355;Q96E  
Y1;Q8N2W9;O95503;Q92800;Q9UBC3;Q9UJU5;Q9UJG1;P39880;Q07687;Q96MH2;Q12837;O15534;P433  
56;Q9UPW6;O00257;Q8N7H5;Q9NRC8;P10589;P62263;P13056;Q5VWG9;Q93008;Q5T0F9;Q8WVJ9;Q9BZ  
E0;Q92993;P38935;O14627;Q9BQ70;P23297;Q8NBF1;O14503;Q15906;P51610;P67809;O94776;Q6PD  
62;P28324;Q13118;Q9UBB5;A6NFD8;Q9UI15;Q9HAZ2;Q14192;Q02078}

20178 [Cluster 1835]GO:0000375+P biological\_process [name] RNA splicing, via  
transesterification reactions [def] "Splicing of RNA via a series of two  
transesterification reactions." [GOC

20179 Pathogen[ Q2Q067] interacts with 19 human  
partners: {P83876;O95391;O75494;O75940;Q96DI7;O43172;O00566;Q92945;O94906;Q8IYB3;Q6P2  
Q9;O75533;O15116;O75934;Q99590;Q15427;O43395;O14893;Q12874}

20180 Pathogen[ P0C214] interacts with 19 human  
partners: {O15116;O43172;O75934;Q6P2Q9;O43395;O94906;Q8IYB3;Q15427;P83876;Q99590;O755  
33;Q96DI7;O75940;Q12874;O75494;O14893;Q92945;O00566;O95391}

20181 Pathogen[ P03346] interacts with 25 human  
partners: {Q15427;Q12874;O43172;Q08170;Q8IYB3;P83876;O95391;Q9UK59;O75940;Q92945;O949  
06;Q9BUQ8;O00566;O75934;O75533;O15116;Q99590;Q6P2Q9;Q96DI7;O14893;O75494;P62995;Q153  
93;Q9BRX9;O43395}

20182 Pathogen[ Q85601] interacts with 17 human  
partners: {Q8IYB3;O95391;O15116;O75494;O75940;O75934;O94906;Q96DI7;O00566;Q99590;O433  
95;Q6P2Q9;P83876;Q92945;O14893;O43172;Q12874}

20183 Pathogen[ P14079] interacts with 18 human  
partners: {O75934;O94906;O14893;O75533;Q12874;P83876;O15116;Q6P2Q9;Q15427;Q8IYB3;O759  
40;O00566;Q92945;O43172;O75494;O43395;O95391;Q9UK59}

20184 Pathogen[ P03383] interacts with 17 human  
partners: {O75494;P83876;O43172;Q6P2Q9;Q12874;O94906;O43395;Q8IYB3;Q92945;O14893;Q995  
90;O15116;O95391;O75934;O00566;O75940;Q96DI7}

20185 Pathogen[ P03410] interacts with 20 human  
partners: {P83876;Q92945;O75934;Q15427;O14893;Q15393;Q9UK59;O94906;O43172;O43395;O755  
33;Q8IYB3;Q99590;Q6P2Q9;O15116;O75940;Q12874;O00566;O95391;O75494}

20186 Pathogen[ P14075] interacts with 17 human  
partners: {O00566;O43395;O95391;Q92945;O43172;O75494;O94906;O75940;Q96DI7;O15116;Q128  
74;Q6P2Q9;Q8IYB3;Q99590;P83876;O75934;O14893}

20187 Pathogen[ P0C206] interacts with 19 human  
partners: {P83876;O75934;Q8IYB3;O75533;O75940;Q9UK59;Q12874;O75494;O43395;Q99590;Q6P2  
Q9;O14893;O43172;O94906;Q92945;Q96DI7;O95391;O15116;O00566}

20188 Pathogen[ P03363] interacts with 23 human  
partners: {O75940;O43395;O95391;Q08170;Q15393;O75533;Q9BRX9;Q15427;Q6P2Q9;O14893;O151  
16;Q8IYB3;Q92945;Q12874;O43172;O75934;O00566;P83876;O94906;P62995;Q99590;O75494;Q96D  
I7}

20189 [Cluster 1836]GO:0007256+P biological\_process [name] activation of JNKK activity  
[def] "The initiation of the activity of the inactive enzyme JUN kinase kinase (JNKK)  
activity in response to phosphorylation by a member of the JUN kinase kinase kinase  
(JNKKK) family, or another upstream kinase. JNKKs are involved in a signaling pathway  
that is primarily activated by cytokines and exposure to environmental stress." [GOC

20190 Pathogen[ Q2Q067] interacts with 2 human partners: {Q13233;Q03468}

20191 Pathogen[ P0C214] interacts with 2 human partners: {Q13233;Q03468}

20192 Pathogen[ P03346] interacts with 2 human partners: {Q03468;Q13233}

20193 Pathogen[ Q85601] interacts with 2 human partners: {Q03468;Q13233}

20194 Pathogen[ P14079] interacts with 1 human partners: {Q03468}

20195 Pathogen[ P03383] interacts with 2 human partners: {Q13233;Q03468}

20196 Pathogen[ P03410] interacts with 2 human partners: {Q13233;Q03468}

20197 Pathogen[ P14075] interacts with 2 human partners: {Q03468;Q13233}

20198 Pathogen[ P0C206] interacts with 2 human partners: {Q03468;Q13233}

20199 Pathogen[ P03363] interacts with 2 human partners: {Q03468;Q13233}

20200 [Cluster 1837]GO:0060706+P biological\_process [name] cell differentiation involved in

embryonic placenta development [def] "The process in which a relatively unspecialized cell acquires specialized features of the embryonic placenta." [GOC

20201 Pathogen[ Q2Q067] interacts with 1 human partners:{P08727}

20202 Pathogen[ P0C214] interacts with 1 human partners:{P08727}

20203 Pathogen[ P03346] interacts with 2 human partners:{P08727;Q9NP62}

20204 Pathogen[ Q85601] interacts with 1 human partners:{P08727}

20205 Pathogen[ P14079] interacts with 1 human partners:{P08727}

20206 Pathogen[ P03383] interacts with 1 human partners:{P08727}

20207 Pathogen[ P03410] interacts with 1 human partners:{P08727}

20208 Pathogen[ P14075] interacts with 1 human partners:{P08727}

20209 Pathogen[ P0C206] interacts with 2 human partners:{P08727;Q9NP62}

20210 Pathogen[ P03363] interacts with 1 human partners:{P08727}

20211 [Cluster 1838]GO:0010519+P biological\_process [name] negative regulation of phospholipase activity [def] "Any process that decreases the frequency, rate or extent of phospholipase activity, the hydrolysis of a phospholipid." [GOC

20212 Pathogen[ Q2Q067] interacts with 1 human partners:{P41220}

20213 Pathogen[ P0C214] interacts with 1 human partners:{P41220}

20214 Pathogen[ P03346] interacts with 1 human partners:{P41220}

20215 Pathogen[ Q85601] interacts with 1 human partners:{P41220}

20216 Pathogen[ P14079] interacts with 1 human partners:{P41220}

20217 Pathogen[ P03383] interacts with 1 human partners:{P41220}

20218 Pathogen[ P03410] interacts with 1 human partners:{P41220}

20219 Pathogen[ P14075] interacts with 1 human partners:{P41220}

20220 Pathogen[ P0C206] interacts with 1 human partners:{P41220}

20221 Pathogen[ P03363] interacts with 1 human partners:{P41220}

20222 [Cluster 1839]GO:0001944+P biological\_process [name] vasculature development [def] "The process whose specific outcome is the progression of the vasculature over time, from its formation to the mature structure. The vasculature is an interconnected tubular multi-tissue structure that contains fluid that is actively transported around the organism." [GOC

20223 Pathogen[ Q2Q067] interacts with 2 human partners:{Q969H0;P17947}

20224 Pathogen[ P0C214] interacts with 2 human partners:{P17947;Q969H0}

20225 Pathogen[ P03346] interacts with 4 human partners:{O43680;P35713;P17947;Q969H0}

20226 Pathogen[ Q85601] interacts with 2 human partners:{Q969H0;P17947}

20227 Pathogen[ P14079] interacts with 1 human partners:{Q969H0}

20228 Pathogen[ P03383] interacts with 2 human partners:{Q969H0;P17947}

20229 Pathogen[ P03410] interacts with 2 human partners:{P17947;Q969H0}

20230 Pathogen[ P14075] interacts with 2 human partners:{P17947;Q969H0}

20231 Pathogen[ P0C206] interacts with 2 human partners:{Q969H0;P17947}

20232 Pathogen[ P03363] interacts with 2 human partners:{P17947;Q969H0}

20233 [Cluster 1840]GO:0045787+P biological\_process [name] positive regulation of cell cycle [def] "Any process that activates or increases the rate or extent of progression through the cell cycle." [GOC

20234 Pathogen[ Q2Q067] interacts with 8 human partners:{P19474;P62244;P51610;P27797;P49356;P15923;P15407;Q00987}

20235 Pathogen[ P0C214] interacts with 8 human partners:{P19474;P51610;P15407;Q00987;P15923;P49356;P62244;P27797}

20236 Pathogen[ P03346] interacts with 8 human partners:{P51610;P15923;Q00987;P49356;P15407;P27797;P19474;P62244}

20237 Pathogen[ Q85601] interacts with 8 human partners:{P62244;P15407;P27797;P51610;P49356;P15923;P19474;Q00987}

20238 Pathogen[ P14079] interacts with 7 human partners:{P15923;P51610;Q00987;P62244;P19474;P49356;P15407}

20239 Pathogen[ P03383] interacts with 6 human partners:{P19474;P15923;P51610;P15407;P62244;P27797}

20240 Pathogen[ P03410] interacts with 7 human partners:{P51610;P62244;P49356;P15923;Q00987;P15407;P27797}

20241 Pathogen[ P14075] interacts with 6 human partners:{P62244;P51610;P15923;P27797;P19474;P15407}

20242 Pathogen[ P0C206] interacts with 8 human partners:{P27797;P15407;P62244;P51610;P15923;Q00987;P49356;P19474}

20243 Pathogen[ P03363] interacts with 6 human partners:{P15923;P27797;P19474;P15407;P62244;P51610}

20244 [Cluster 1841]GO:0018027+P biological\_process [name] peptidyl-lysine dimethylation [def] "The methylation of peptidyl-lysine to form peptidyl-N6,N6-dimethyl-L-lysine." [RESID

20245 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9NRG4;Q86TU7;Q8WTS6}

20246 Pathogen[ P0C214] interacts with 3 human partners:{Q86TU7;Q8WTS6;Q9NRG4}

20247 Pathogen[ P03346] interacts with 3 human partners:{Q9NRG4;Q8WTS6;Q86TU7}

20248 Pathogen[ Q85601] interacts with 3 human partners:{Q86TU7;Q8WTS6;Q9NRG4}

20249 Pathogen[ P14079] interacts with 3 human partners:{Q9NRG4;Q86TU7;Q8WTS6}

20250 Pathogen[ P03383] interacts with 3 human partners:{Q9NRG4;Q86TU7;Q8WTS6}

20251 Pathogen[ P03410] interacts with 3 human partners:{Q8WTS6;Q86TU7;Q9NRG4}

20252 Pathogen[ P14075] interacts with 3 human partners:{Q86TU7;Q9NRG4;Q8WTS6}

20253 Pathogen[ P0C206] interacts with 3 human partners:{Q9NRG4;Q86TU7;Q8WTS6}

20254 Pathogen[ P03363] interacts with 2 human partners:{Q9NRG4;Q8WTS6}

- 20255 [Cluster 1842]GO:0043123+P biological\_process [name] positive regulation of I-kappaB kinase/NF-kappaB cascade [def] "Any process that activates or increases the frequency, rate or extent of an I-kappaB kinase/NF-kappaB induced cascade." [GOC
- 20256 Pathogen[ Q2Q067] interacts with 48 human  
partners: {Q04864;Q8IUC6;O15519;P29692;P21980;Q96LR2;Q9NYB0;O43734;O60260;Q9UDY8;Q9H0F6;Q13077;Q04206;Q6P1N0;Q9NYJ8;O95999;P26447;Q13158;Q14790;Q86UE4;Q7Z2W4;Q96IF1;Q14653;Q9Y6K9;Q99732;P61088;P53041;P37198;Q96FA3;P35813;Q8N108;P0CG47;O14920;Q15628;P0CG48;O43318;Q92734;P62987;Q13404;Q9HAT8;O00463;Q13490;P61586;O15111;P32929;O15205;Q8N108;P62979}
- 20257 Pathogen[ P0C214] interacts with 48 human  
partners: {P35813;O15111;Q9Y6K9;Q13490;Q15628;Q8IUC6;Q14164;Q13158;Q9UDY8;Q96FA3;P61586;Q9H0F6;Q04206;P29692;Q9HAT8;Q13404;Q92734;O43318;Q86UE4;Q7Z2W4;P32929;O15519;Q99732;O43734;P37198;P0CG48;O95999;Q8N108;O15205;P53041;Q14653;P62987;Q96LR2;P26447;Q9NYB0;Q9NV92;Q8N108;P0CG47;P21980;Q04864;O60260;Q6P1N0;O00463;P62979;O14920;Q9NYJ8;P61088;Q14790}
- 20258 Pathogen[ P03346] interacts with 55 human  
partners: {P21980;Q9Y6K9;Q13077;O00463;P35813;O15111;Q96LR2;Q92734;Q86UE4;Q13489;P62987;Q13158;Q9BYM8;Q8N108;O43734;Q9UDY8;P0CG48;Q04206;Q96IF1;P29692;Q04864;P37198;Q9H0F6;Q9NV92;Q96AX9;O15519;Q96FA3;Q13404;O95999;P61088;Q6P1N0;Q96EP0;Q9NYJ8;Q9HAT8;P32929;O15205;Q9NYB0;P53041;P26447;Q14653;Q15628;P62979;O60260;Q8IUC6;Q8N108;Q14790;P0CG47;Q13490;O14920;Q9H8V3;O43318;Q14164;Q7Z2W4;P61586;Q99732}
- 20259 Pathogen[ Q85601] interacts with 47 human  
partners: {Q92734;P26447;Q13490;Q9NYJ8;Q8IUC6;O00463;Q13158;O15111;Q9UDY8;Q14790;Q9HAT8;Q7Z2W4;P0CG48;Q9H0F6;Q04864;Q96FA3;Q13404;Q14653;Q14164;Q9Y6K9;Q8N108;O14920;Q04206;P21980;O15205;P53041;Q8N108;Q86UE4;P61586;P62979;Q15628;Q96IF1;O60260;P0CG47;Q13077;P62987;Q9NYB0;O95999;O43318;P29692;P61088;P35813;Q99732;Q6P1N0;Q96LR2;O15519;P32929}
- 20260 Pathogen[ P14079] interacts with 54 human  
partners: {Q9BXL7;O00463;O60260;Q9HAT8;P0CG48;P53041;Q14653;O95999;Q7Z2W4;Q92734;O15519;Q7LFL8;Q8N108;Q8IUC6;Q13404;Q96EP0;Q14164;P21980;Q6P1N0;P62979;Q8TCD1;P29692;P62987;Q13077;Q96FA3;Q7Z434;P35813;Q14790;Q8N114;Q99732;Q96IF1;Q8N108;O15205;Q9Y6K9;Q9BYM8;Q9NYB0;P61586;Q9H8V3;P37198;P26447;P32929;Q86UE4;Q96LR2;B7ZAQ6;Q13158;Q9H0F6;Q9Y3E0;Q9NV92;P0CG47;Q9Y239;Q15628;O43734;Q99836;Q13490}
- 20261 Pathogen[ P03383] interacts with 39 human  
partners: {Q14653;Q04864;Q9H0F6;Q9Y6K9;P62987;Q8IUC6;Q96LR2;Q86UE4;Q9NYB0;O14920;O15111;O43734;Q13490;P35813;Q13158;O43318;P61088;Q6P1N0;O60260;P61586;Q13404;Q99732;P53041;O95999;Q15628;P62979;Q8N108;P0CG47;Q96FA3;Q04206;P0CG48;P21980;P37198;P29692;Q9NYJ8;O15205;Q8N108;Q9HAT8;Q7Z2W4}
- 20262 Pathogen[ P03410] interacts with 54 human  
partners: {P26447;Q04206;P0CG48;O15205;O14920;P35813;Q9Y239;Q8N108;Q04864;B7ZAQ6;Q13077;O15111;Q96FA3;Q14653;P32929;O15519;Q13490;Q99732;Q8N114;O60260;P61088;Q9Y3E0;P62979;Q9NV92;Q7Z434;Q13158;Q96IF1;Q15628;O43318;O95999;P61586;Q9BXL7;O00463;Q9NYJ8;Q7Z2W4;Q86UE4;O43734;P53041;Q92734;Q9HAT8;Q8N108;P62987;Q8IUC6;P21980;Q13404;Q9H8V3;Q9Y6K9;Q8TCD1;P29692;Q9NYB0;Q96LR2;P0CG47;Q6P1N0;Q9H0F6}
- 20263 Pathogen[ P14075] interacts with 41 human  
partners: {P35813;O15111;Q04206;Q92734;Q86UE4;P61088;P29692;O43734;Q8N108;O14920;P0CG48;P62979;Q8N108;Q14653;Q13490;Q99732;O43318;Q9HAT8;Q13158;P37198;Q96FA3;P62987;P53041;P61586;O95999;Q15628;Q7Z2W4;Q8IUC6;Q9NV92;P0CG47;Q96LR2;Q13404;Q9Y6K9;P21980;O60260;O15205;Q6P1N0;Q9H0F6;Q04864;Q9NYB0;Q9NYJ8}
- 20264 Pathogen[ P0C206] interacts with 55 human  
partners: {Q96AX9;P0CG48;Q13077;O14920;P26447;Q9Y6K9;Q9UDY8;Q9NV92;Q96IF1;O95999;P21980;Q9HAT8;P53041;Q8N108;O43318;O43734;O15205;Q13158;O15519;P61586;Q96LR2;P61088;Q14164;Q6P1N0;Q96EP0;Q04206;P32929;O60260;O15111;P62979;Q14790;Q04864;Q9NYJ8;Q15628;Q9H8V3;O00463;Q13489;P0CG47;Q9NYB0;Q8IUC6;Q9H0F6;Q96FA3;Q86UE4;Q92734;P62987;Q13404;P29692;Q7Z2W4;Q9BYM8;Q99732;Q8N108;P35813;B7ZAQ6;Q14653;Q13490}
- 20265 Pathogen[ P03363] interacts with 39 human  
partners: {Q14653;Q13490;O15205;O14920;Q04206;O15519;P26447;Q96EP0;Q92734;O15111;Q9NYJ8;Q7Z2W4;Q9NYB0;O00463;P53041;Q9Y6K9;O43318;Q86UE4;Q13158;Q96IF1;P61088;Q96FA3;P29692;Q13077;Q13489;Q99732;Q8N108;P62987;Q15628;Q9H0F6;Q04864;Q6P1N0;Q96LR2;Q13404;Q9HAT8;Q8N108;P37198;O43734;Q96AX9}
- 20266 [Cluster 1843]GO:0006892+P biological\_process [name] post-Golgi vesicle-mediated transport [def] "The directed movement of substances from the Golgi to other parts of the cell, including organelles and the plasma membrane, mediated by small transport vesicles." [GOC
- 20267 Pathogen[ Q2Q067] interacts with 26 human  
partners: {P02792;Q9UL45;Q9Y6Q5;Q10567;O15126;P56377;O43747;Q9NUP1;Q6QNY0;Q96EV8;Q96PC3;P11142;O15127;O00471;Q00610;P61966;Q14677;Q9BXS5;P50570;P54920;Q99962;Q5HYK7;O00161;P09496;P78537;Q13367}
- 20268 Pathogen[ P0C214] interacts with 27 human  
partners: {P02794;Q13367;P78537;Q5HYK7;P54920;O15127;Q99962;Q6QNY0;Q10567;O15126;P56377;Q14677;Q9UL45;Q96PC3;Q96EV8;O43747;Q9Y6Q5;P02792;Q9NUP1;P61966;P09496;P50570;Q9BXS5;O00161;Q14677;O00471;P11142}
- 20269 Pathogen[ P03346] interacts with 28 human  
partners: {P02792;P61966;P50570;O00471;Q14677;O43747;P56377;Q99962;Q9BXS5;P11142;P02794;P09496;Q6QNY0;Q10567;O00161;P78537;Q96EV8;Q96PC3;P54920;O15126;Q9UL45;Q13367;Q5HYK7;Q9Y6Q5;Q14677;Q9NUP1;Q00610;O15127}

20270 Pathogen[ Q85601] interacts with 27 human partners: {Q13367;P54920;Q6QNY0;O15126;Q00610;P09496;Q9NUP1;O00471;Q5HYK7;Q9BXS5;P56377;Q99962;O43747;Q10567;Q14677;P78537;Q96EV8;P11142;P50570;Q96PC3;P02792;O15127;P61966;Q9Y6Q5;Q14671;P02794;O00161}

20271 Pathogen[ P14079] interacts with 25 human partners: {Q9Y6Q5;P61966;P11142;Q9BXS5;O14828;Q00610;Q6QNY0;O00471;Q14677;Q10567;P56377;P50570;Q9UL45;Q5HYK7;P02794;Q13367;O43747;Q96EV8;Q9NUP1;Q96PC3;Q14671;P78537;P54920;P09496;Q99962}

20272 Pathogen[ P03383] interacts with 19 human partners: {P02794;Q6QNY0;P56377;O15126;Q00610;Q5HYK7;P54920;Q10567;P78537;Q9NUP1;Q96EV8;O43747;O00471;P11142;O15127;Q13367;Q14677;O00161;Q9BXS5}

20273 Pathogen[ P03410] interacts with 29 human partners: {Q00610;Q9NUP1;P09496;Q9Y6Q5;P78537;Q96PC3;P02794;Q5HYK7;O14828;Q9BXS5;O43747;Q6QNY0;Q10567;P11142;P50570;Q9UL45;Q14677;O15127;Q99962;Q14671;P02792;Q13367;P61966;O15126;O00471;O00161;P56377;Q96EV8;P54920}

20274 Pathogen[ P14075] interacts with 20 human partners: {P78537;P11142;P09496;O15127;P54920;Q5HYK7;O15126;O00471;P02794;Q14677;Q6QNY0;Q9NUP1;O43747;O00161;Q96EV8;P56377;Q9BXS5;Q10567;Q00610;Q13367}

20275 Pathogen[ P0C206] interacts with 29 human partners: {O15127;O14828;P78537;Q9UL45;Q9Y6Q5;O43747;Q10567;P54920;P02794;P61966;Q00610;Q99962;P09496;O00161;Q9BXS5;Q5HYK7;Q96EV8;P02792;Q14677;Q9NUP1;Q6QNY0;O15126;Q96PC3;P11142;O00471;Q13367;P50570;P56377;Q14671}

20276 Pathogen[ P03363] interacts with 20 human partners: {Q99962;Q13367;O43747;O00471;P78537;P50570;P54920;Q00610;Q9BXS5;Q14677;O15126;Q14671;O15127;Q5HYK7;O00161;Q6QNY0;Q9NUP1;P02794;Q10567;P11142}

20277 [Cluster 1844]GO:0018149+P biological\_process [name] peptide cross-linking [def] "The formation of a covalent cross-link between or within protein chains." [GOC

20278 Pathogen[ Q2Q067] interacts with 8 human partners: {P35321;P21980;P23490;P15924;P22528;Q9UBC9;Q96PI1;P07476}

20279 Pathogen[ P0C214] interacts with 8 human partners: {P35321;P07476;P22735;P15924;P23490;P21980;Q9UBC9;Q96PI1}

20280 Pathogen[ P03346] interacts with 10 human partners: {P15924;P21980;P35321;P07476;Q9UBC9;P16452;Q96PI1;P23490;P22528;P22735}

20281 Pathogen[ Q85601] interacts with 5 human partners: {P35321;P15924;P21980;P23490;Q9UBC9}

20282 Pathogen[ P14079] interacts with 12 human partners: {P04083;P22528;P16452;P22735;P07476;P15924;P21980;P35321;P23490;Q92817;Q9UBC9;Q96PI1}

20283 Pathogen[ P03383] interacts with 8 human partners: {P23490;P15924;P35321;Q96PI1;Q9UBC9;P07476;P22528;P21980}

20284 Pathogen[ P03410] interacts with 11 human partners: {P23490;P15924;Q9UBC9;P22528;P35321;P16452;Q96PI1;P21980;Q92817;P07476;P22735}

20285 Pathogen[ P14075] interacts with 8 human partners: {Q96PI1;P35321;Q9UBC9;P23490;P22528;P21980;P07476;P15924}

20286 Pathogen[ P0C206] interacts with 10 human partners: {Q9UBC9;Q96PI1;P21980;P23490;P35321;P16452;P15924;P22735;P07476;P22528}

20287 Pathogen[ P03363] interacts with 9 human partners: {P35321;P23490;Q9UBC9;P15924;P22528;P07476;Q96PI1;P16452;Q92817}

20288 [Cluster 1845]GO:0014033+P biological\_process [name] neural crest cell differentiation [def] "The process in which a relatively unspecialized cell acquires specialized features of a neural crest cell." [GOC

20289 Pathogen[ Q2Q067] interacts with 1 human partners: {Q13485}

20290 Pathogen[ P0C214] interacts with 1 human partners: {Q13485}

20291 Pathogen[ P03346] interacts with 1 human partners: {Q13485}

20292 Pathogen[ Q85601] interacts with 1 human partners: {Q13485}

20293 Pathogen[ P14079] interacts with 1 human partners: {Q06413}

20294 Pathogen[ P03383] interacts with 1 human partners: {Q13485}

20295 Pathogen[ P03410] interacts with 1 human partners: {Q13485}

20296 Pathogen[ P14075] interacts with 1 human partners: {Q13485}

20297 Pathogen[ P0C206] interacts with 1 human partners: {Q13485}

20298 Pathogen[ P03363] interacts with 1 human partners: {Q13485}

20299 [Cluster 1846]GO:0050892+P biological\_process [name] intestinal absorption [def] "Any process in which nutrients are taken up from the contents of the intestine." [GOC

20300 Pathogen[ Q2Q067] interacts with 3 human partners: {Q92681;P21399;P48200}

20301 Pathogen[ P0C214] interacts with 3 human partners: {P48200;Q92681;P21399}

20302 Pathogen[ P03346] interacts with 4 human partners: {Q92681;P07148;P48200;P21399}

20303 Pathogen[ Q85601] interacts with 3 human partners: {P21399;P48200;Q92681}

20304 Pathogen[ P14079] interacts with 3 human partners: {Q92681;P21399;P48200}

20305 Pathogen[ P03383] interacts with 2 human partners: {Q92681;P48200}

20306 Pathogen[ P03410] interacts with 3 human partners: {P21399;P48200;Q92681}

20307 Pathogen[ P14075] interacts with 2 human partners: {Q92681;P48200}

20308 Pathogen[ P0C206] interacts with 3 human partners: {Q92681;P48200;P21399}

20309 Pathogen[ P03363] interacts with 2 human partners: {P48200;Q92681}

20310 [Cluster 1847]GO:0021572+P biological\_process [name] rhombomere 6 development [def] "The process whose specific outcome is the progression of rhombomere 6 over time, from



its formation to the mature structure. Rhombomeres are transverse segments of the developing rhombencephalon. Rhombomeres are lineage restricted, express different genes from one another, and adopt different developmental fates. Rhombomeres are numbered in anterior to posterior order." [GO\_REF

20311 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9Y5Q3}

20312 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y5Q3}

20313 Pathogen[ P03346] interacts with 1 human partners:{Q9Y5Q3}

20314 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y5Q3}

20315 Pathogen[ P14079] interacts with 1 human partners:{Q9Y5Q3}

20316 Pathogen[ P03383] interacts with 1 human partners:{Q9Y5Q3}

20317 Pathogen[ P03410] interacts with 1 human partners:{Q9Y5Q3}

20318 Pathogen[ P14075] interacts with 1 human partners:{Q9Y5Q3}

20319 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y5Q3}

20320 Pathogen[ P03363] interacts with 1 human partners:{Q9Y5Q3}

20321 [Cluster 1848]GO:0070212+P biological\_process [name] protein poly-ADP-ribosylation [def] "The transfer of multiple ADP-ribose residues from NAD to a protein amino acid, forming a poly(ADP-ribose) chain." [GOC

20322 Pathogen[ Q2Q067] interacts with 3 human partners:{P09874;Q53GL7;O95271}

20323 Pathogen[ P0C214] interacts with 3 human partners:{Q53GL7;O95271;P09874}

20324 Pathogen[ P03346] interacts with 3 human partners:{Q53GL7;P09874;O95271}

20325 Pathogen[ Q85601] interacts with 3 human partners:{P09874;O95271;Q53GL7}

20326 Pathogen[ P14079] interacts with 3 human partners:{P09874;O95271;Q53GL7}

20327 Pathogen[ P03383] interacts with 3 human partners:{P09874;Q53GL7;O95271}

20328 Pathogen[ P03410] interacts with 3 human partners:{Q53GL7;O95271;P09874}

20329 Pathogen[ P14075] interacts with 3 human partners:{O95271;P09874;Q53GL7}

20330 Pathogen[ P0C206] interacts with 3 human partners:{O95271;P09874;Q53GL7}

20331 Pathogen[ P03363] interacts with 3 human partners:{O95271;P09874;Q53GL7}

20332 [Cluster 1849]GO:0009653+P biological\_process [name] anatomical structure morphogenesis [def] "The process in which anatomical structures are generated and organized. Morphogenesis pertains to the creation of form." [GOC

20333 Pathogen[ Q2Q067] interacts with 33 human partners:{O60806;O00425;Q99502;P09067;Q15928;P53675;Q9Y6M1;P63167;O95948;Q92800;P54198;P78545;Q9UQR0;Q99504;P56693;P62906;Q00056;P31276;O15499;Q9UN79;P78337;P49639;Q9NP71;Q01860;P63000;P55327;P14653;O15111;P05783;Q9UN30;Q9NQ50;O96028;Q92764}

20334 Pathogen[ P0C214] interacts with 32 human partners:{P54198;P63000;P49639;O15111;P05783;P78337;P56693;O00425;Q15928;P53675;P14653;Q9UN79;Q99504;Q9NP71;Q9UQR0;Q9NQ50;Q9UN30;O60806;Q96G01;P55327;Q9Y6M1;P78545;O95948;Q92800;O15499;Q01860;Q92764;P31276;P63167;P62906;O96028;Q99502}

20335 Pathogen[ P03346] interacts with 53 human partners:{P31271;Q96G01;Q9NPC8;P49639;P50219;P52954;Q8N653;O15111;O95677;Q15928;P05783;P78337;Q92800;P55327;Q05925;P31270;Q9NP62;Q9Y6M1;O00425;Q00056;Q9UIU6;P56693;P31276;Q9UN30;O60806;P23759;Q99502;P14653;Q9UBC0;Q01860;Q9NP71;Q06710;Q96GD3;O95948;O15499;Q9UN79;Q9NQ50;P53675;Q8IUQ4;O75333;P63167;O75398;P78545;Q99504;Q13394;P56915;Q92764;P63000;P09067;P54198;P62906;O96028;Q9UQR0}

20336 Pathogen[ Q85601] interacts with 34 human partners:{P49639;P54198;P53675;O15499;O75398;O95677;O15111;P14653;P78545;P63000;Q99504;P78337;Q9NP71;O60806;Q9Y6M1;Q92764;P05783;Q15928;O95948;Q96G01;Q99502;Q9UN79;O00425;Q9UN30;P56693;P31271;Q9NQ50;P31276;Q92800;Q9UQR0;Q01860;P63167;P62906;O96028}

20337 Pathogen[ P14079] interacts with 30 human partners:{Q9NQ50;P55327;Q99502;P78337;Q95948;Q9UQR0;P54198;Q92800;Q13394;P31271;P31276;Q01860;Q92764;Q9Y6M1;P46695;P62906;P05783;P56693;Q96G01;Q9UN79;P63167;Q15928;Q99504;P78545;P53675;O00425;O15499;P49639;Q9NP71;Q9UN30}

20338 Pathogen[ P03383] interacts with 23 human partners:{Q99504;O15111;P31276;P63000;Q01860;P53675;P05783;P78337;Q9NP71;Q9UQR0;P49639;Q15928;Q9UN79;P62906;P78545;Q9NQ50;O00425;Q92764;P63167;P56693;P54198;Q9UN30;Q92800}

20339 Pathogen[ P03410] interacts with 32 human partners:{Q13394;P54198;P31276;Q9UN79;P63000;O60806;Q99502;Q01860;O15111;P78545;Q92764;P62906;P63167;O95948;Q15928;Q92800;Q9NP71;Q96G01;P55327;P56693;Q9NQ50;Q99504;P49639;O00425;P46695;Q9UQR0;P53675;Q9UN30;P05783;P78337;Q9Y6M1;O15499}

20340 Pathogen[ P14075] interacts with 24 human partners:{Q92764;Q9UN30;O15111;Q99504;P55327;P78337;P05783;Q9UQR0;Q15928;P78545;P53675;Q01860;Q92800;P56693;P54198;Q9NP71;Q9UN79;Q9NQ50;P63000;P31276;Q99502;O00425;P62906;P63167}

20341 Pathogen[ P0C206] interacts with 40 human partners:{Q9UN30;P53675;Q9NP71;Q99504;P09067;Q9UN79;Q01860;P49639;Q9UQR0;P63167;Q8IUQ4;Q13394;P54198;O15499;Q9UBC0;P55327;Q92800;P56693;P14653;P78337;P63000;O96028;O15111;P05783;P78545;Q99502;Q15928;P31271;Q9NQ50;P62906;O75398;Q9Y6M1;O60806;O95677;Q9NP62;Q92764;P31276;Q96G01;O00425;O95948}

20342 Pathogen[ P03363] interacts with 41 human partners:{P05783;Q9UBC0;O95948;P54198;P09067;P63167;Q9UN79;Q92764;Q15928;O15111;P31271;O00425;Q9Y6M1;Q9NQ50;P49639;P63000;Q9UN30;P14653;O15499;P56693;P56915;P78545;Q99504;Q00056;Q05925;P23759;P31276;O96028;Q9UQR0;O60806;P62906;O75398;Q9NP71;Q92800;P78337;P50219;P53675;Q8N653;Q9NPC8;P55327;Q01860}

20343 [Cluster 1850]GO:0035417+P biological\_process [name] negative regulation of mitotic prometaphase [def] "Any process that stops, prevents or reduces the rate or extent of

mitotic prometaphase, the stage following prophase in mitosis (in higher eukaryotes) during which the nuclear envelope is disrupted and breaks into membrane vesicles, and the spindle microtubules enter the nuclear region." [GOC

20344 Pathogen[ Q2Q067] interacts with 1 human partners:{O15205}

20345 Pathogen[ P0C214] interacts with 1 human partners:{O15205}

20346 Pathogen[ P03346] interacts with 1 human partners:{O15205}

20347 Pathogen[ Q85601] interacts with 1 human partners:{O15205}

20348 Pathogen[ P14079] interacts with 1 human partners:{O15205}

20349 Pathogen[ P03383] interacts with 1 human partners:{O15205}

20350 Pathogen[ P03410] interacts with 1 human partners:{O15205}

20351 Pathogen[ P14075] interacts with 1 human partners:{O15205}

20352 Pathogen[ P0C206] interacts with 1 human partners:{O15205}

20353 Pathogen[ P03363] interacts with 1 human partners:{O15205}

20354 [Cluster 1851]GO:0010039+P biological\_process [name] response to iron ion [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an iron ion stimulus." [GOC

20355 Pathogen[ Q2Q067] interacts with 4 human partners:{000213;P24385;P55212;P06132}

20356 Pathogen[ P0C214] interacts with 5 human partners:{P06132;000213;P55212;P24385;P36551}

20357 Pathogen[ P03346] interacts with 4 human partners:{000213;P24385;P55212;P06132}

20358 Pathogen[ Q85601] interacts with 4 human partners:{000213;P24385;P06132;P55212}

20359 Pathogen[ P14079] interacts with 4 human partners:{000213;P55212;P06132;P36551}

20360 Pathogen[ P03383] interacts with 4 human partners:{000213;P55212;P24385;P06132}

20361 Pathogen[ P03410] interacts with 5 human partners:{000213;P06132;P36551;P24385;P55212}

20362 Pathogen[ P14075] interacts with 4 human partners:{000213;P06132;P55212;P24385}

20363 Pathogen[ P0C206] interacts with 5 human partners:{P55212;P36551;000213;P06132;P24385}

20364 Pathogen[ P03363] interacts with 4 human partners:{000213;P06132;P55212;P24385}

20365 [Cluster 1852]GO:0048821+P biological\_process [name] erythrocyte development [def] "The process aimed at the progression of an erythrocyte over time, from initial commitment of the cell to a specific fate, to the fully functional differentiated cell." [GOC

20366 Pathogen[ Q2Q067] interacts with 5 human partners:{P35712;P41182;P15976;P11831;P07738}

20367 Pathogen[ P0C214] interacts with 6 human partners:{P16157;P11831;P41182;P07738;Q7L5Y9;P35712}

20368 Pathogen[ P03346] interacts with 7 human partners:{P11831;P07738;P16157;Q13351;P15976;P41182;P35712}

20369 Pathogen[ Q85601] interacts with 7 human partners:{P11831;P16157;P15976;Q7L5Y9;P35712;P41182;P07738}

20370 Pathogen[ P14079] interacts with 7 human partners:{P35712;P15976;P16157;Q7L5Y9;P07738;P41182;Q13351}

20371 Pathogen[ P03383] interacts with 3 human partners:{P11831;P35712;P07738}

20372 Pathogen[ P03410] interacts with 7 human partners:{P35712;P11831;P16157;P07738;P41182;Q7L5Y9;P15976}

20373 Pathogen[ P14075] interacts with 4 human partners:{P11831;Q7L5Y9;P35712;P07738}

20374 Pathogen[ P0C206] interacts with 7 human partners:{P41182;P15976;P16157;Q7L5Y9;P11831;P35712;P07738}

20375 Pathogen[ P03363] interacts with 3 human partners:{P16157;P11831;P35712}

20376 [Cluster 1853]GO:0045453+P biological\_process [name] bone resorption [def] "The process in which specialized cells known as osteoclasts degrade the organic and inorganic portions of bone, and endocytose and transport the degradation products." [GOC

20377 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9UBB6;Q8TD23;P20823}

20378 Pathogen[ P0C214] interacts with 2 human partners:{Q9UBB6;Q8TD23}

20379 Pathogen[ P03346] interacts with 3 human partners:{Q8TD23;P20823;Q9UBB6}

20380 Pathogen[ Q85601] interacts with 2 human partners:{Q8TD23;P20823}

20381 Pathogen[ P14079] interacts with 4 human partners:{O14773;Q8TD23;Q9UBB6;P13232}

20382 Pathogen[ P03383] interacts with 2 human partners:{Q9UBB6;Q8TD23}

20383 Pathogen[ P03410] interacts with 3 human partners:{Q9UBB6;Q8TD23;P13232}

20384 Pathogen[ P14075] interacts with 2 human partners:{Q8TD23;Q9UBB6}

20385 Pathogen[ P0C206] interacts with 3 human partners:{Q8TD23;P20823;Q9UBB6}

20386 Pathogen[ P03363] interacts with 2 human partners:{Q9UBB6;Q8TD23}

20387 [Cluster 1854]GO:0043558+P biological\_process [name] regulation of translational initiation in response to stress [def] "Any process that activates or increases the frequency, rate or extent of translation initiation, as a result of a stimulus indicating the organism is under stress." [GOC

20388 Pathogen[ Q2Q067] interacts with 1 human partners:{P05198}

20389 Pathogen[ P0C214] interacts with 1 human partners:{P05198}

20390 Pathogen[ P03346] interacts with 1 human partners:{P05198}

20391 Pathogen[ Q85601] interacts with 1 human partners:{P05198}

20392 Pathogen[ P14079] interacts with 1 human partners:{P05198}

20393 Pathogen[ P03383] interacts with 1 human partners:{P05198}

20394 Pathogen[ P03410] interacts with 1 human partners:{P05198}

20395 Pathogen[ P14075] interacts with 1 human partners:{P05198}

20396 Pathogen[ P0C206] interacts with 1 human partners:{P05198}  
20397 Pathogen[ P03363] interacts with 1 human partners:{P05198}  
20398 [Cluster 1855]GO:0061077+P biological\_process [name] chaperone-mediated protein folding [def] "The process of inhibiting aggregation and assisting in the covalent and noncovalent assembly of single chain polypeptides or multisubunit complexes into the correct tertiary structure that is dependent on interaction with a chaperone." [GOC  
20399 Pathogen[ Q2Q067] interacts with 2 human partners:{P11142;P40855}  
20400 Pathogen[ P0C214] interacts with 3 human partners:{P40855;P10909;P11142}  
20401 Pathogen[ P03346] interacts with 3 human partners:{P11142;Q9UHD1;P40855}  
20402 Pathogen[ Q85601] interacts with 3 human partners:{Q9UHD1;P11142;P40855}  
20403 Pathogen[ P14079] interacts with 4 human partners:{P11142;P40855;P10909;Q9UHD1}  
20404 Pathogen[ P03383] interacts with 2 human partners:{P11142;P40855}  
20405 Pathogen[ P03410] interacts with 4 human partners:{Q9UHD1;P11142;P40855;P10909}  
20406 Pathogen[ P14075] interacts with 2 human partners:{P11142;P40855}  
20407 Pathogen[ P0C206] interacts with 4 human partners:{P40855;P10909;Q9UHD1;P11142}  
20408 Pathogen[ P03363] interacts with 3 human partners:{P40855;Q9H3U1;P11142}  
20409 [Cluster 1856]GO:0032922+P biological\_process [name] circadian regulation of gene expression [def] "Any process that modulates the frequency, rate or extent of gene expression such that an expression pattern recurs with a regularity of approximately 24 hours." [GOC  
20410 Pathogen[ Q2Q067] interacts with 3 human partners:{O14503;O15379;O75376}  
20411 Pathogen[ P0C214] interacts with 3 human partners:{O14503;O75376;O15379}  
20412 Pathogen[ P03346] interacts with 7 human partners:{O15379;O15534;O14503;O00327;Q9C0J9;O75376;O15516}  
20413 Pathogen[ Q85601] interacts with 6 human partners:{O15534;O15516;O00327;O14503;O75376;O15379}  
20414 Pathogen[ P14079] interacts with 4 human partners:{O15379;O75376;O14503;O15534}  
20415 Pathogen[ P03383] interacts with 3 human partners:{O75376;O14503;O15379}  
20416 Pathogen[ P03410] interacts with 3 human partners:{O75376;O15379;O15534}  
20417 Pathogen[ P14075] interacts with 3 human partners:{O14503;O75376;O15379}  
20418 Pathogen[ P0C206] interacts with 6 human partners:{O15534;Q9C0J9;O00327;O15516;O15379;O75376}  
20419 Pathogen[ P03363] interacts with 6 human partners:{O15379;O75376;Q9C0J9;O00327;O15534;O14503}  
20420 [Cluster 1857]GO:0045944+P biological\_process [name] positive regulation of transcription from RNA polymerase II promoter [def] "Any process that activates or increases the frequency, rate or extent of transcription from an RNA polymerase II promoter." [GOC  
20421 Pathogen[ Q2Q067] interacts with 359 human partners:{Q13562;O60806;Q9UM63;Q13573;Q9UKI9;P27540;Q33E94;P01100;O00213;Q9HB65;Q92585;Q16236;P62633;Q96S65;O43364;P31749;Q8IZL2;Q12837;Q9Y5Q3;Q03052;Q9Y613;P56524;Q10587;Q99502;Q9HBZ2;P10827;P04198;P15884;Q16594;Q92922;P07737;Q13033;P23511;Q8WVC0;Q12888;Q9H175;O00512;O00267;P06400;Q8WYA1;Q01094;Q8WW38;P40763;P14921;Q08209;P01106;Q16666;P46937;O60481;Q6PD62;Q13485;O14639;O14974;P35680;P31268;Q6P1J9;Q15596;P48380;O14813;Q9Y606;Q9Y2Y9;P35712;P10828;Q15562;Q9GZS3;P55197;Q8N5U6;P51531;Q32M00;Q9NQ87;P13349;Q9UJG1;Q6VUC0;O96004;Q92985;P08151;Q9BZE3;Q01196;O43439;Q86UU0;Q96T88;O75081;P20749;Q8NF64;Q02930;Q9HD15;P49116;Q8WWK9;Q04206;Q9ULV5;O43639;Q13547;Q9BTT4;O00712;Q93074;Q6UUUV9;Q14814;P18850;P32780;Q99594;O94983;P17483;Q76L83;O94776;P36956;O95948;Q99933;Q9BWW4;Q86WV1;P15976;Q9BWX5;O75586;O14686;P28356;Q92754;Q15025;Q8N8G2;O15350;P35638;Q9NY61;O60244;Q9Y3Y4;P52657;Q6ZNA4;Q14934;Q13158;D6RGH6;P17676;P17482;Q53H80;Q9Y4Z2;Q8WYN3;Q8NDY6;P08047;P11473;Q92905;Q9NZC7;O60563;Q13129;Q8N726;P11831;P20265;P15172;O94906;P28702;P48552;Q15561;P11388;P28069;Q15424;P78545;P54845;Q08050;Q9UHK0;P61978;Q14765;Q9UQL6;Q8TAK5;O43524;O43745;O15162;Q8N5J4;P38159;Q13469;Q8N0Z2;P55347;P78317;P23769;Q9UIV1;Q99743;P20719;P15036;Q9BYK8;Q14186;P78352;Q15699;Q15532;O75582;Q14938;P56693;Q96LB3;P25791;P19532;P51948;Q92831;Q15306;P12755;P84022;Q99856;P50221;Q6P1X5;P10914;Q92539;Q92541;Q92769;O00255;O15105;Q06330;P14859;Q9UHV7;O95644;Q9GZV5;O75444;Q9NQG5;P50750;Q9Y2N7;Q9ULH7;P11161;O15265;O43679;P51532;Q16254;P08697;O43918;P50613;Q9NVC6;Q15327;Q15329;Q8NI08;Q8NHW3;Q13951;Q92993;Q8IX07;O60907;O75030;Q9UPW6;P13984;P55055;Q9UIH9;P12956;Q15796;O75475;O00321;P16333;P78337;P23760;Q9HBH7;O14593;O14770;Q99607;P19419;Q7Z2X4;P49639;Q13503;Q15014;O15370;Q8WWQ0;P19838;Q9H4S2;P28749;P20823;P23193;O75360;Q07687;Q12968;O60248;P15336;Q8NFX5;P25963;P0CG47;O43186;Q14686;Q9BZK7;Q6QNY1;Q15545;Q14872;O95271;P22415;Q9UMQ3;P19484;O95238;P31314;Q9ULG1;P35269;Q8TE85;P11474;Q12824;Q9Y5J3;P0CG48;Q9NY43;Q9HCK8;Q8N7H5;P47928;P49336;Q969V6;Q5T230;Q9P1Z2;Q96PK6;P58304;O60583;Q6ZVN8;P24863;P27986;Q05086;Q9NP71;Q92793;Q86U70;Q01860;P18848;Q5TGS1;Q9NSC2;P63272;P21675;Q86WI3;Q9ZTF5;Q15853;Q9HBD4;P62987;Q14188;Q02577;P55771;Q9UBL3;P42226;Q9Y2W1;Q71SY5;P14653;P15923;P10242;Q99717;P78318;Q15651;Q8IXJ9;Q99814;P40425;Q92841;Q0VG99;Q96JK9;Q9UQR1;P35711;P42224;A6NKF2;P22736;Q8TDD2;Q15797;P23409;Q8NAP3;Q06547;Q13501;Q02078;Q9UPG8;Q06546;P40424;P49715;P42772;Q9Y224;Q6ZN01;P18146;Q03112;P17947;P32519;P51946;Q10586;Q14693;P78543;P33076;Q96JB5;Q3C1V8;P08651;P62979}  
20422 Pathogen[ P0C214] interacts with 340 human partners:{P40424;Q05086;Q92993;O75444;Q03052;P18850;Q9BWW4;P08697;D6RGH6;O00213;Q92585;O14813;P51946;P24863;Q96S65;Q15327;Q16254;P32243;P49639;Q02930;Q13469;Q13573;Q8N0Z2;P11474;Q71SY5;O95238;Q06546;O95633;P55347;Q15651;Q13547;P78337;Q12824;Q14872;P38159;Q8NF64;P78318;O00321;P19838;P14921;O75586;P15336;P78543;Q06547;P52657;Q8IZL2;P21675;Q9H175;O43186;P48552;P31314;Q8WYN3;P35269;P50750;Q9UIH9;Q9HD15;P19484;O00267;P506

13;Q92841;Q15014;P33076;P42226;Q9UM54;P15884;Q13158;Q8NHW3;O60907;O15350;P13349;Q99856;Q03112;Q5T230;Q14765;Q9BZE3;Q8NDY6;P01100;Q93074;Q86WI3;P17275;Q9HBD4;P32519;Q99743;P23769;Q92793;Q9Y5J3;P35711;P19419;Q9HBH7;P56693;P46937;Q13033;Q8N8G2;P84022;P15172;Q76L83;P17947;P56524;Q9GZV5;P11831;Q9Y2Y9;Q8NAP3;Q04206;Q14639;Q9NVC6;Q53H80;Q9Y5Q3;Q9UHK0;P42224;P10914;Q8NI08;Q16666;P17482;O43745;Q9ULG1;Q9UPG8;Q9UKI9;Q06330;Q99607;Q05030;Q9Y726;Q9Y613;Q8N5J4;Q9BTT4;P05121;Q7Z2X4;Q14686;Q15545;Q14938;Q60244;Q9NY61;Q9H2F5;Q92541;Q16594;P17676;O43639;Q96T88;P78317;O94906;Q9UIV1;Q10587;Q8N5U6;Q10586;Q9NZC7;Q6VUC0;O14974;Q9BYK8;Q9HBZ2;P20265;Q02078;Q13501;Q15561;P78352;Q92922;Q13129;Q8TE85;Q12968;Q01094;Q14814;Q9Y2N7;P18848;P17535;Q92754;O43439;O00712;Q8IXJ9;Q14186;Q12837;P49116;Q92985;Q07687;P47928;Q9Y224;P15923;P51948;P25791;O94776;Q92905;Q92539;P49336;Q99933;O15162;Q86U70;P0CG48;Q6P1J9;P14653;Q8WWQ0;Q13485;P55197;Q08209;Q92769;O15105;O60583;P63272;P20749;Q15329;Q8WW38;Q9NQG5;O43679;Q9HCK8;Q8N7H5;Q15025;Q6ZN01;P19532;Q15796;Q9NSC2;Q6UUV9;P25963;Q99594;Q9NP71;P11388;Q96PK6;Q6P1X5;Q96JK9;Q75475;Q8WYA1;Q8IX07;P12755;Q14934;P28069;P13984;Q15424;Q86UU0;Q6ZNA4;P32780;O75360;O00512;Q8WVC0;O43918;Q8TAK5;O75582;P10242;Q9UHV7;P62987;O14593;Q9ULV5;P16333;O60806;P62633;Q15532;O60563;P05412;Q9UMQ3;Q86WV1;Q8NFX5;P28749;Q92831;P18146;Q6ZVN8;Q02577;Q15853;P40425;P0CG47;Q99814;Q9BZK7;P11161;O15265;Q12888;P23511;Q99717;Q86WV6;P15036;Q8WVK9;Q969V6;P40763;O96004;P27540;P50221;Q9UPW6;P08151;P48380;P78545;Q9ULH7;O14770;Q9HB65;P08651;P22415;Q9UM63;Q9P1Z2;Q96LB3;P10828;P23193;Q15596;Q13503;Q15797;O95644;Q6QNY1;P16220;O95948;Q9UJG1;Q9Y3Y4;O95271;A6NKF2;Q15562;Q9Y606;O15370;P51531;P62979;P54845;Q9UQR1;Q9Y2W1;Q9NQ87;P27986;Q6PD62;Q15699;P14859;Q01860;Q5TGS1;P01106;Q3C1V8;Q75081;O60248;P35712;Q14188;Q9UQL6;P06400;P08047;P12956;Q9GZS3;O00255;Q96JB5;P42772;P31749;Q9NY43;P35638;Q33E94;P04198;Q8TDD2;P51532;P18846;P23760;Q13951;Q32MQ0;Q16236;O94983;Q14693;P55771;Q15306;O60481;Q99502}

20423 Pathogen[ P03346] interacts with 436 human

partners: {Q12888;P31271;Q06330;Q3C1V8;Q06945;Q9Y606;Q9NPC8;O15265;Q9BZE0;Q6PD62;P47902;P05412;Q9UKS7;O00213;Q92585;P49639;P61978;P15863;Q15562;P46937;Q96S65;P35453;Q9Y4Z2;Q8N0Z2;Q02078;Q16666;P10827;Q9HB65;P11473;Q86U70;P31268;Q15788;P23511;Q9HBD4;Q6ZVN8;P12956;O60907;P50221;Q9NQG5;Q8N8G2;O14813;Q7RTS1;Q99612;P58012;Q14814;P78337;Q7RTS3;Q32MQ0;Q9UPW6;P16220;Q9UQR1;Q9H2W2;O14639;O60248;O43918;P17676;Q03052;Q9UIV1;Q9Y4X4;P19484;O15370;O75586;P62633;P15336;Q9BS16;Q99607;Q05925;O43639;Q13129;P36956;P35638;Q8WW38;Q9Y613;Q8TAK5;Q06547;P11831;P11388;Q15329;Q0VG99;Q9Y5W3;P62987;Q99594;Q13158;Q71SY5;P48443;P06400;P25963;P78352;Q9HBH7;P51532;P13349;P54845;Q15797;Q14188;Q9GZV5;O60393;Q12772;Q8NFX5;Q9BZE3;Q92841;O60563;Q9BWX5;Q9UKI9;Q12837;P17275;P49116;Q9UJQ4;P24863;Q9UIU6;Q9Y3Y4;Q9P2W1;P49336;Q8WYN3;P23769;Q14872;Q9HD15;Q9ULG1;Q8N5U6;P19419;Q9H4S2;P14859;Q9NSC2;P48380;P42772;P55197;P20264;P15923;P0CG48;Q86WW2;P25800;P15172;Q15796;P56693;O75475;P23760;P56524;P17535;Q15327;P19622;O00712;Q92858;Q93074;Q99856;P23409;Q9ULH7;Q04206;P33076;Q53H80;O95238;O94776;O00321;O60806;Q92886;O60244;P15173;Q08050;P42226;Q15306;Q9Y5Q3;Q12824;O43186;P27540;Q8N5J4;Q969V6;Q9BTT4;P58304;D6RGH6;Q9UBL3;Q99717;P20823;Q92831;O15350;Q7Z2X4;O15105;Q8NDY6;Q99502;Q16254;O75030;Q9UM63;P14653;P63272;Q8TE85;Q9H165;P17483;O95644;Q01094;O94906;P49715;Q92754;Q8NFX6;Q9Y5J3;Q9UBC0;Q01860;P20719;O75444;P78426;P08047;Q15853;P20265;Q96JM2;Q8TDD2;P18850;Q16236;Q15561;Q14934;Q16650;O43680;Q15532;O96004;P01106;O43364;Q5T230;Q9BWW4;P16333;Q8NBF1;Q15699;P28702;Q9NP71;O60583;P28358;Q14186;P18848;O00327;P14921;Q06710;P84022;P25791;Q12968;P17542;Q9Y224;P10242;O60481;Q9H175;P13984;P22736;Q6VUC0;P15976;Q13033;O95096;Q13469;Q92539;Q06546;P31749;Q15596;O00255;P19532;P10914;P49640;Q6QNY1;O95948;Q33E94;Q13951;Q8WVC0;Q92769;Q86WI3;O00512;Q9NZC7;Q9UHK0;Q9Y2N7;Q9P1Z2;Q13547;Q03112;P08651;P40425;Q8WWQ0;Q9HCK8;P51946;P28356;O43679;Q15025;P52657;P50750;Q02548;Q6UUV9;Q6P1X5;Q96JB5;Q9NY61;P35680;Q9NQ87;Q9H2F5;Q15475;O43439;Q8IX07;Q99814;Q12778;A6NKF2;P42224;O14686;O75582;Q9Y5R6;Q92541;Q6ZNA4;Q5TGS1;P81177;O94983;Q96LB3;P78317;Q95718;O14593;O60281;Q8N157;O00267;O94929;P35713;Q15014;P62979;Q9GZS3;Q92905;P28749;P04198;P20749;Q92481;Q6ZN01;Q8IUI8;P21675;P11161;P35712;P35269;Q9NVC6;P32519;P55347;P0CG47;Q92922;Q9BZK7;O95271;P10828;Q9UBR4;Q8NAP3;P28069;P17947;Q99593;P11474;Q10586;P48552;Q8WVK9;P61968;P40424;Q76L83;Q01196;P19838;P56178;Q13485;Q8IXJ9;Q8WYA1;O75360;P31314;Q05086;P07737;Q9UPG8;Q15424;P23193;Q9BYK8;Q86UU0;O15516;P18146;Q92993;Q8NI08;Q13573;Q92793;Q92985;Q15651;P51531;Q8TEY5;P38159;P78545;Q13503;O00482;Q08209;Q14765;Q02930;Q15545;Q8N726;Q9ULV5;Q8TAU0;Q9H9S0;Q10587;O75593;Q9Y2W1;Q13562;P35711;P40763;O14974;P35398;Q8NHW3;P32243;O43524;Q8NEA6;P78543;Q5BKK8;Q86WV1;Q02577;O95343;Q13285;P01100;Q96PK6;Q9UMQ3;P51948;Q9NY43;Q99743;P15036;P32780;Q9UQL6;Q75081;O95633;Q9UHV7;P78318;Q9UIH9;Q9UJG1;P55055;Q9Y2Y9;Q6P1J9;Q14938;Q96T88;O14770;Q8N7H5;P27986;Q96JK9;Q99933;P15884;O43745;Q8IZL2;P18846;P17482;Q8IUM7;P47928;Q13501;P22415;Q14693;P08151;Q14686;Q16594;P55771;Q9UJU5;Q9H2A3;O15162}

20424 Pathogen[ Q85601] interacts with 371 human

partners: {Q5T230;Q9UQR1;P51946;P01106;P18146;P52657;Q6PD62;O14639;P78317;Q9NZC7;O00213;Q92585;Q15014;Q8TE85;Q15532;P49639;P61978;Q96S65;Q86WV6;P08151;Q9H2F5;P11831;Q15853;Q9UPG8;Q02078;Q96JK9;P17676;P15036;Q16666;O60481;P62633;O75360;P11473;P33076;Q6VUC0;Q96PK6;Q96LB3;P31749;Q16236;Q8N8G2;O14813;Q8WVC0;Q9Y4Z2;Q14765;Q92754;O60563;P61968;Q8TDD2;Q9BWX5;Q9UPW6;P15976;Q6UUV9;Q8WVK9;O94776;O15265;P19484;P50750;P15172;P14921;Q9ULV5;Q03052;Q9Y2N7;Q9UQL6;Q08651;Q86U70;Q9Y613;Q06546;Q9Y613;Q15329;Q8WW38;Q0VG99;Q8NAP3;Q6P1J9;Q32MQ0;Q9Y606;Q13158;P06400;Q06330;Q969V6;O60907;P13349;Q9Y2Y9;P54845;Q15797;P14653;Q9BZE3;Q8NDY6;P16333;Q13573;Q13951;Q9UHV7;Q15424;O75030;Q33E94;P49336;Q14872;P18848;Q14814;Q13129;P19419;P40763;P28702;Q03112;P28069;O60583;P32519;P14859;P23769;P42772;O15516;P78545;Q8WYA1;Q15545;Q9ULH7;O14686;Q86UU0;Q14188;Q12772;Q8IXJ9;O43364;O00327;P35712;Q10587;Q9UIV1;P10242;Q15306;Q9GZV5;P18846;Q99814;Q86WI3;P27540;P0CG48;D6RGH6;Q13469;Q92831;Q7Z2X4;P51948;P19532;P78337;O43439;Q16594;O43639;Q99743;Q15596;O95644;O96004;O94906;Q15651;Q9NP71;P55055;Q9UIH9;O43745;P12755;P086

97;Q9GZS3;Q9Y5Q3;P10914;Q9NQG5;P08047;Q12888;O60806;P27986;P07737;Q08209;P55771;P51531;Q13562;P01100;Q14934;O15370;Q53H80;Q8NHW3;P22415;Q8NEA6;Q14686;Q9UBL3;Q13503;Q86V1;P23409;Q14186;Q8WYN3;O75444;P40424;Q92541;Q8NBF1;P25791;Q12968;P17535;P51532;P13984;Q02930;Q9H175;Q9UMQ3;Q96JB5;Q8N726;Q9HD15;P23511;Q8NFB25;P32780;Q99933;Q9UM63;Q95948;P36956;Q5TGS1;P78543;P35711;Q92769;P16220;Q99717;Q15699;Q04206;P42226;O43679;Q99502;P40425;Q8WWQ0;Q3C1V8;Q71SY5;Q92905;O60248;Q02577;Q15025;Q15562;P35269;Q6P1X5;Q99594;P22736;Q9BWW4;O60281;P35680;P05412;Q8IZL2;Q9NQ87;P11388;Q9BZK7;P56524;Q6ZNA4;P17927;P78352;Q9HBH7;O00255;Q8IX07;P18850;Q9UKI9;Q9BYK8;A6NKF2;Q99612;P42224;O75582;Q16254;Q9ULG1;Q13033;P05121;O00512;O94983;P11474;P50613;P15923;Q9HBZ2;Q8N5J4;O14593;P10827;P58304;O00267;P32243;Q9UHK0;P56693;P23193;Q8N5U6;P62979;P28749;Q9HBD4;O00482;P84022;Q6ZN01;Q99607;Q9HCK8;P31271;P49715;Q06547;P55347;P0CG47;Q9BZK7;P56524;Q6ZNA4;P17947;P21675;P46937;Q08050;O14974;P63272;O15105;O15350;Q13547;P50221;P31314;Q9BTT4;P49116;Q05086;P24863;Q9HB65;O15162;P62987;P38159;P48552;Q9UM54;Q9NSC2;Q92993;O00712;P15336;P10828;P04198;Q8TAK5;Q92793;P48380;Q9P1Z2;O75475;O75586;Q8N0Z2;Q95271;P19447;P17275;Q9Y2W1;Q92922;P19838;P20823;Q12824;Q12837;O60244;Q13485;Q6QNY1;Q93074;P11161;Q9H4S2;Q92539;Q9NY43;Q9Y3Y4;Q01860;Q9Y224;P20749;P78318;Q8NFB25;Q9UJG1;O43918;Q07687;Q9NVC6;Q14938;Q15561;Q99856;Q01094;O14770;P23760;Q8N7H5;P55197;Q9Y5J3;P15884;Q15796;Q8NI08;P17482;P12956;P20265;Q10586;O00321;O95238;P47928;Q13501;O75081;Q14693;P35638;P25963}

20425 Pathogen[ P14079] interacts with 346 human

partners: {P31751;Q9UQL6;P01215;P48552;Q9UQR1;Q9UPW6;Q32MQ0;P35711;O60244;P11388;Q15014;P08151;P15036;P25800;Q99743;P33076;P78543;O15162;Q53H80;P12755;P55055;Q9ULG1;Q86V1;Q10587;Q9Y5Q3;Q9BYK8;Q15561;Q9BZK7;Q15532;O43364;Q02078;Q99814;P0CG48;Q06413;Q9BWX5;Q99502;Q76L83;O15370;Q8N8G2;Q15596;O94906;O43745;Q9GZV5;Q06546;P14859;Q14693;P28749;P78337;D6RGH6;P13349;Q6ZVN8;P35269;Q14186;P20809;P49336;P51946;Q15853;O00321;O60481;Q8IXJ9;Q16594;P23409;Q9Y2Y9;Q14938;Q9Y2N7;P35398;O95271;O43439;P11473;Q9UBL3;P35680;P20265;Q9NY61;P55347;O75582;Q96JK9;Q16254;P10828;Q92541;O43679;Q8TE85;Q92985;Q5T230;Q92793;Q13033;O95948;Q8N157;Q99607;P01225;Q13129;P55771;O14639;O75475;Q86U70;Q14974;Q15329;Q99594;Q15699;P11474;Q92922;P48380;P51532;O95644;O60907;P35712;Q6ZNA4;Q9NVC6;P07737;P58304;P51531;Q8N726;Q8TAK5;Q8NI08;O96004;P22736;Q13573;Q99856;O94929;O00213;P15976;Q8WWQ0;Q9GZS3;Q8IZL2;Q9NY43;O60281;P32519;P19484;Q12968;Q15025;P62979;P46937;A6NKF2;Q9UM54;P31271;P15923;Q15306;P48443;Q9UHK0;Q06547;Q15797;Q969V6;Q14765;P10827;Q9H175;Q12837;Q6PD62;Q96JM2;P54845;Q92539;O15350;P62987;Q99612;P55197;Q96S65;Q7Z434;Q9Y613;O95718;P08651;P28069;Q12772;Q6P1X5;P42226;Q06330;P50613;Q3C1V8;Q15651;P12956;Q8NAP3;Q8N5U6;Q9UPG8;Q8N5U6;Q9BZK7;Q075586;Q01860;O00512;P19532;Q9UIH9;P11161;O00482;Q8NFB25;Q9NY43;Q9Y3Y4;Q9Y224;P20749;P78318;Q8NFB25;Q9UJG1;O43918;Q07687;Q9NVC6;P49715;Q9BWW4;Q14934;Q99933;P24863;P25791;P16333;P27540;P63272;Q9Y5J3;P17275;P15336;Q9HD15;Q9HBH7;Q15424;Q8NHW3;P28702;P04198;Q9Y3Y4;O75360;Q9UJG1;Q15788;Q5TGS1;Q9UJQ4;Q9HCK8;Q8IX07;Q92905;Q15327;Q86UU0;Q9UMQ3;P35638;Q9H2F5;O14593;Q92754;P01106;O75444;Q13501;P25657;P56693;Q16236;Q9Y606;Q9Y4X4;P42224;P18850;Q8N0Z2;P32243;Q8WWQ9;Q9UIV1;P32780;O75081;O95760;Q71SY5;Q07687;O14770;Q14814;P61978;Q14872;Q8TDD2;Q8WWB7;P20749;Q9BTT4;P23193;Q9Y5W3;Q13158;O43918;P13984;O43639;Q13503;O60583;P78317;O15265;Q02577;Q15562;Q9UKI9;P15884;P78545;Q13164;Q96JB5;Q9HBZ2;P62633;Q8IUI8;Q9NQ87;Q03052;Q8NEA6;Q9HB65;Q12824;Q86WI3;Q13469;Q93074;P49116;Q8WYN3;P05412;Q96LB3;Q12888;P10242;Q6P1J9;Q7Z2X4;P56524;O14813;O75030;Q9UM63;P49639;P28360;O15105;Q8WYA1;O00267;P0CG47;O94776;Q9P1Z2;P36956;Q9ULV5;Q6QNY1;Q01094;Q9Y224;Q92585;O00255;Q13951;Q8N7H5;P01100;Q9NVP71;Q14188;Q10586;Q8IUM7;P23769;P23511;Q08209;Q9NQG5;Q9BZE0;Q14686;P78318;Q9Y2W1;Q96PK6;Q99836;Q8NW38;P47928;P19447;P17535;P50221;Q9NSC2;Q8NBF1;P10914;Q92993;P19419;P21675;Q16666;P38159;Q8NDY6;P50750;Q6VUC0;Q15545;O00712;P23760;P22415;P51948;O94983}

20426 Pathogen[ P03383] interacts with 305 human

partners: {Q9UQR1;Q13573;Q8IXJ9;Q06330;Q15329;Q02577;P27986;O00213;Q9NY61;Q92585;Q15014;P10914;Q15561;Q96S65;Q92831;Q12888;P11831;Q96JK9;P15036;O75582;P35712;Q13485;Q6P1J9;Q9HBD4;P63272;P33076;P08047;Q9UPW6;Q99607;Q9UKI9;P16220;P27540;Q15562;P28069;Q13469;P62987;Q12824;P35269;Q8TAK5;P32243;Q32MQ0;P51948;Q6UUUV9;Q8WWK9;O14639;O60248;O94776;Q15596;P15172;Q01094;P14921;P55771;Q9UQL6;Q07687;Q9Y5Q3;O15162;P19484;P01106;Q8WW38;Q86U70;Q6PD62;Q06547;P40424;P49116;P23511;P14859;P23193;O60244;Q9BWW4;P31749;O60907;Q9Y2Y9;O75360;P17482;Q9UMQ3;O95644;Q92905;Q8IZL2;P20749;P19419;Q14686;P08697;Q86V1;P48380;P23769;Q92841;Q9NQ87;Q9H2F5;O75030;O94983;O00712;D6RGH6;P35638;P15923;Q15532;Q6ZNA4;Q14814;Q01860;P78317;Q15797;P42226;P61978;Q96JB5;Q8WYN3;P18846;Q92993;Q969V6;Q13506;Q15651;P78337;Q8TE85;Q13158;Q93074;P07737;Q8N5U6;Q9H175;O00321;O00267;Q86U0;P06400;P18146;O94906;P38159;Q9NP71;Q14872;P55347;Q9HB65;Q9NQG5;Q33E94;O14770;P08651;P52657;Q53H80;Q14934;Q8N8G2;O96004;Q9Y613;P11473;O15105;P11474;Q03112;P49336;Q16594;Q92985;Q14186;Q9Y606;P78543;P54845;P49639;P84022;O75081;P25791;Q9HD15;Q96PK6;O60563;Q8WVC0;P50613;Q9UHK0;P13984;P42772;Q8NFB25;Q6ZVN8;Q6VUC0;Q13951;Q9ULV5;P51946;O15265;Q92769;Q76L83;Q99717;P17676;Q9Y2N7;O43679;Q9HBH7;Q9ULH7;Q9NSC2;Q16254;A6NKF2;P28702;Q15025;P50750;Q12837;Q12968;O43745;P35711;P51531;O15350;Q9UIV1;O00255;O75475;Q16666;P25963;Q8N0Z2;O15370;Q6P1X5;O00512;Q96LB3;Q9UJG1;Q8N5J4;O14593;Q13501;O43918;Q16236;P31314;Q13547;Q15853;Q99933;P28749;Q71SY5;P10242;Q86WI3;Q15327;O95238;Q9HCK8;Q14188;P62633;P01100;P04198;P11161;P62979;Q92754;O43186;P23760;P0CG47;Q15796;Q99594;P21675;Q9BZK7;P56524;Q92541;P32519;Q8NAP3;Q8WWQ0;Q5T230;Q04206;Q10586;P78318;P17535;P78545;Q9NY43;P51532;Q9UM63;P0CG48;Q9BTT4;P50221;Q5TGS1;P48552;Q9UHV7;Q15424;P55197;P24863;Q13033;Q92922;P15336;P10828;Q99856;P47928;P18848;P01215;Q9NVC6;P18850;O60481;O75586;O95271;Q02930;Q15545;Q6ZN01;Q15699;P17275;P20265;Q9Y2W1;O75444;Q9GZS3;P16333;P19838;P56693;P46937;Q9GZV5;O60583;O43439;Q06546;Q3C1V8;P78352;P78352;Q92539;Q9Y3Y4;Q9BYK8;P32780;Q8NFB25;P19532;P17947;Q8N7H5;Q9P1Z2;P40425;Q92793;Q02078;Q9Y224;Q8NI08;P12956;Q8N726;P22415;Q13503;Q14693;Q6QNY1;P05412;Q13129}

- 20427 Pathogen[ P03410] interacts with 358 human partners: {P84022;Q99594;O14813;Q9NQG5;Q99933;Q99743;Q92831;P20749;Q9Y5J3;Q04206;O60583;Q9Y2W1;P28069;P35712;P23409;P11831;O60281;Q8NBF1;O43439;P19838;P36956;P27986;P05121;Q6ZNA4;Q6ZNO1;O00512;Q03112;P0CG48;Q9Y2Y9;Q8N5J4;Q16666;P35638;O95238;Q8WVC0;Q96PK6;P17482;Q86WV1;Q15329;Q6QNY1;Q8NI08;Q8NFZ5;Q15014;P61978;O96004;Q9BWW4;P19419;P42772;P12755;Q6PD62;Q08209;P17676;P23511;Q5T230;Q15DD2;Q8N726;O60806;Q9UMQ3;Q9UJG1;P01106;Q99814;O00267;P17947;P63272;Q12968;Q06330;O60481;Q14639;Q13501;P31749;Q7RTS1;O00213;O94945;P25791;Q9ULH7;P21675;Q14686;Q14938;Q9NQ87;P18848;Q9UHK0;P50221;Q9Y2N7;Q13503;Q9BYK8;Q9Y224;P10242;O43639;P14859;O75582;Q9NVC6;Q99717;Q14814;P78545;O75030;Q9NZC7;Q8WVK9;Q9UPG8;P15884;P51946;O75444;Q16254;Q16236;D6RGH6;Q3C1V8;Q9BZE3;Q92905;O43679;Q9NY61;Q9ULG1;O43918;P20809;Q96JM2;Q14765;Q9UIH9;Q14639;Q13501;P31749;Q7RTS1;O00213;O94929;P19532;P16333;O95948;P10828;O00321;Q15651;Q9H175;P06400;Q6UUUV9;P19484;P31314;Q15025;Q06547;P01215;Q15327;P32519;P23193;P15923;Q99607;Q03052;Q9UIV1;P62979;Q9UPW6;P52657;Q14188;Q15306;P50613;O00712;Q92585;Q8WW38;Q92541;O95760;P01100;P18846;Q15424;Q7Z434;Q13158;Q14693;Q96JB5;Q9GZS3;Q9GZV5;Q9UQR1;P11473;Q9UQL6;Q9H2F5;Q9HBZ2;Q8N7H5;Q8NDY6;Q969V6;O95644;O15162;Q02930;Q9P1Z2;P50750;Q9Y5Q3;P27540;Q86WI3;Q9UM54;O60563;P25800;P08651;O94906;Q8IZL2;P12956;Q96JK9;Q07687;Q92793;Q8IX07;Q8TE85;Q15561;P15036;Q8WVQ0;Q92769;Q8NEA6;Q9BWX5;Q6ZVN8;Q5TGS1;Q7Z2X4;P17535;Q8WYN3;Q8NAP3;Q32MQ0;P08697;P17275;Q13129;Q12772;Q8TAK5;O95271;Q14872;Q9NRR1;P78317;P56524;Q9HBH7;Q8IXJ9;Q8N157;Q13033;Q15797;Q92922;Q6P1X5;Q86U70;Q8IUI8;Q9NP71;Q96S65;P19447;Q9Y613;P47928;P48380;P22415;Q13485;P10914;P22736;Q14186;Q14974;Q9HCK8;Q76L83;P28702;Q9UM63;P16220;P56693;Q9BT4;Q8WVB7;Q53H80;P46937;Q6P1J9;O43364;Q15699;P35269;P55771;Q13469;P51532;Q16594;Q15853;P13349;P05412;P49336;P49639;Q10586;Q12888;O15105;P42226;P11388;Q15596;P51948;P51531;P24863;P28749;Q9UKI9;Q9Y606;Q6VUC0;P55347;O60244;P78543;Q9UHV7;P32243;Q13951;P11474;O14593;P23769;P62987;O75081;Q8NHW3;O94776;Q13547;Q01094;P35680;P49116;P13984;Q02577;Q10587;Q02907;O15350;Q9BZK7;Q86WV6;P08047;Q9Y3Y4;O60248;P55197;O15265;P23760;Q99856;Q8N0Z2;O75475;Q93074;O43745;Q9ULV5;O75360;P25963;Q9HD15;O15370;Q92985;P20265;A6NKF2;Q12837;Q9NSC2;Q96LB3;O94983;Q9NY43;P18146;Q8N5U6;P62633;Q12824;P78352;Q9HBD4;Q33E94;Q92539;P48552;O00255;P40424;P38159;Q15796;Q9UJQ4;Q15532;P15336;P11161;Q92993;Q15562;P20763;P20773;P18850;O60907;P33076;Q14934;P04198;Q8NF64;Q86UU0;P15976;O14770;P0CG47;Q06546;Q15545;P78337;Q92754;Q9HB65;Q13573;O75586;P14921;Q8WYA1;Q71SY5}
- 20428 Pathogen[ P14075] interacts with 307 human partners: {P28069;Q86UU0;P49336;Q99933;Q9NSC2;O00213;Q92585;Q96S65;Q9GZV5;Q99607;Q02577;Q86U70;P13984;Q9H175;Q9H2F5;P12956;P24863;Q04206;P21675;P17482;O15265;Q9UM63;P78337;O00512;Q13573;Q8WVQ0;Q5TGS1;Q9HBD4;P40424;Q13951;O75030;O60248;Q9UQR1;Q8N5J4;P52657;Q8IXJ9;P05412;Q86WI3;P42226;P40425;Q14938;P11474;Q6ZNO1;O75475;P14859;Q92831;P11831;O60481;Q9BWW4;P10828;P78545;Q15014;Q15562;Q9Y224;P51532;Q15532;Q76L83;O15162;Q14686;O75582;O75444;P17275;Q8TE85;Q06546;O60563;Q9Y3Y4;P23769;P50613;P19419;Q8WVC0;Q01860;Q9NY61;P38159;P48380;P62633;Q33E94;P11161;Q12837;Q15561;P15172;Q6P1X5;Q15327;Q9Y606;P55624;O43918;Q08050;O43186;P18146;P19484;Q9NQG5;Q9Y2N7;P20265;P33076;Q53H80;Q92922;O94776;P35638;P50750;O60583;P47928;Q99717;P56693;Q96JB5;Q8WW38;P15336;P04198;Q92754;Q9Y613;P10242;Q16666;O94983;Q15796;Q9UJG1;Q9NQ87;P15923;O94906;P25963;Q13547;Q99856;Q16594;Q8N0Z2;P01106;Q92993;Q8NFZ5;O75081;Q07687;P07737;P27540;P55347;O75586;Q9BT4;P35711;O96004;P16333;Q13485;Q9UHK0;O00255;Q8N7H5;Q86WV1;Q93074;Q6P1J9;Q9NP71;Q14186;Q10586;P15036;Q15853;Q8N5U6;P49116;Q92541;O14770;P25791;P31749;P0CG48;Q9NY43;Q92539;P62979;Q9ULV5;Q6ZNA4;Q6ZVN8;P32519;Q9UPW6;Q06547;Q9HBH7;P54845;P23193;Q96LB3;Q9UHV7;P50221;Q13469;Q96PK6;O15350;Q16254;Q92769;P78543;Q9Y5Q3;Q15424;P35712;O43679;P55771;Q6QNY1;Q6PD62;Q9HCK8;O15370;Q8NAP3;Q15025;P51531;Q14934;Q6UUUV9;Q13158;P35269;P27986;P11473;Q99594;O60244;Q15306;O43745;P17947;P78318;P62987;O60907;Q9P1Z2;O86967;Q15545;P23511;P55197;P78317;P18848;O75360;Q9UMQ3;A6NKF1;Q96JK9;Q969V6;Q01094;O14639;P08651;P61978;O15105;P14921;Q9GZS3;P06400;O14593;Q03112;Q02078;Q12824;Q06330;P51946;Q3C1V8;P28749;P32780;P01100;P20809;P0CG47;P42772;Q5T230;Q9BZK7;Q32MQ0;O00712;Q92793;P28702;P15884;Q9NVC6;Q92841;P78352;Q15699;P46937;P31314;P48552;Q13503;O43439;Q8WVK9;P19838;Q9UQL6;Q12888;Q13129;Q99502;P16220;Q9UKI9;Q9HB65;Q15329;P22415;Q92985;P84022;Q8NI08;P23760;P17676;P01215;Q16236;Q1715Y5;O95271;Q8IZL2;P10914;Q9UIV1;Q92905;O00267;Q9Y2W1;P17535;Q14188;D6RGH6;Q13033;P32243;Q8WYN3;Q14814;P63272;Q12968;P19532;Q14872;Q9HD15;Q9BYK8;Q02930;Q8NF64;O95644;Q15651;Q9Y2Y9;Q13501;Q8N8G2;Q8N726;Q6VUC0;Q15596;P20749;P18846;Q9ULH7;P51948;O00321;Q8TAK5;P18850;Q14693;P08047}
- 20429 Pathogen[ P0C206] interacts with 404 human partners: {Q8TE85;O95271;Q76L83;O43679;P46937;P84022;Q9Y224;Q07687;P24863;Q9NQ87;Q14188;P10914;Q13501;Q92769;P0CG48;Q92539;Q9BZE0;Q9HCK8;Q15329;O60481;P49336;Q9UM54;P78352;Q32MQ0;Q7Z2X4;Q6PD62;P35398;P23193;Q06546;Q9HB65;Q15545;Q9H2F5;Q96S65;P31314;P31749;O60393;Q06330;Q13469;Q9NP71;P40425;Q9UJQ4;O00512;Q9Y5Q3;P14921;P78318;Q9NY43;P51532;Q86UU0;Q8TAK5;Q02078;Q8N726;P50750;Q5TGS1;Q9Y2N7;P11161;P16220;P17275;Q9Y5R6;O95633;Q86WI3;O75030;P08651;O75444;P18850;O60907;Q9NSC2;O75582;Q9Y2Y9;Q99933;Q01860;Q9Y4Z2;P51531;Q9UIV1;Q6ZNA4;P49639;Q9UHK0;Q15327;P52657;Q02548;O75081;Q96JK9;O00255;P61978;Q99717;Q9UMQ3;P05412;Q8WW38;P25963;Q05086;Q9Y3Y4;P19419;P50221;Q9UM63;Q13951;P10242;Q8NFZ5;O15265;P23409;O75586;Q9UBC0;Q16666;P15336;Q9NQG5;Q9UIH9;Q92541;P55055;Q6QNY1;Q92922;Q15306;P17535;Q13547;Q14186;P49715;O94776;P32633;P36956;P17483;P42772;P19484;Q9P1Z2;Q12968;P56693;Q92993;Q86WV6;D6RGH6;Q12824;P18846;Q13158;P48380;O14770;P55771;P54845;P15976;P49116;Q15532;Q9HD15;O14686;P22736;Q15014;Q9UHV7;P19532;Q10587;Q8N5U6;P78317;Q15699;O00321;Q15796;O95238;Q92831;P33076;O00482;P27986;Q8WVQ0;Q14938;Q16254;Q9UJG1;P40424;P28749;P13984;P18146;O94929;P62633;P12755;O75360;Q8NEA6;Q96JB5;Q6VUC0;O75475;O96004;P19447;Q92793;P14653;Q92754;Q9BZE3;Q9GZV5;Q9BWX5;P32519;O60248;O14974;Q15853;O43918;Q12837;O14593;Q9BYK8;P23511;O00213;O15105;O00327;O95718;P78337;Q15025;Q6UUUV9;P49640;Q15651;Q12888;P19838;Q99743;Q9H4S2;Q8WVB7;Q8NI08;Q969V6;Q99612;P352

69;O15516;P10828;P22415;P35711;Q9ULV5;P38159;A6NKF2;Q03112;O00712;Q8N7H5;Q8NF64;P50613;Q9GZS3;Q8IXJ9;Q13573;P32243;P17676;Q9ULG1;O14813;Q8IZL2;P08047;P17482;Q9BWW4;Q9Y5J3;P13349;Q9H175;Q92985;P35680;Q96T88;P01100;Q04206;Q9UPW6;P25800;Q86WV1;P01215;Q9UKI9;P15923;Q96PK6;Q01094;Q14686;Q9UQR1;Q6ZVN8;P15884;P20823;P62979;Q06547;Q5T230;Q3C1V8;Q8WVC0;Q03052;Q96LB3;Q9Y2W1;P04198;Q9Y4X4;P78545;Q8N157;P17947;Q02930;Q8NHW3;Q8NBF1;Q60281;Q9BZK7;Q15562;Q9H165;Q9HBH7;Q92841;O00267;P20809;Q15424;P15036;Q14872;P40763;Q13485;Q8N5J4;Q13129;P23760;P25791;Q71SY5;Q9BTT4;Q8WYA1;P32780;P10CG47;Q14934;P16333;Q33E94;O15370;Q13562;P23769;Q9Y606;P11831;Q08050;O60244;O15162;Q6P1X5;Q15797;Q13422;Q99502;P20749;Q8IXO7;Q9UBL3;P42226;Q9Y613;Q9NZC7;P28702;P05121;Q15596;P35712;Q16236;P20265;P31271;O15350;Q9UPG8;P27540;Q9NVC6;P15172;Q9HBD4;O94906;Q9H9S0;Q86U70;O43364;Q08209;O14639;Q14814;P11388;Q14765;Q9UBR4;P11474;P01106;Q99594;Q99814;Q8IUM7;Q13503;O95644;P62987;P56524;Q13033;O60583;P61968;O43439;P28356;P28069;P07737;Q02577;P20719;P08151;Q8TAU0;P48552;P42224;P47928;Q5BXX8;O60563;Q14693;Q53H80;P12956;P55197;Q9NY61;O94983;Q8NOZ2;Q15788;Q8WWW9;Q8TDD2;O43639;O43745;Q93074;P18848;Q0VGG9;O60806;Q6P1J9;Q99607;P11473;Q8NAP3;Q12772;Q8WYN3;Q99856;P58304;P35638;Q15561;Q9ULH7;Q6ZN01;Q92585;Q8N8G2;Q96JM2;P10827;Q9HBZ2;P21675;P14859;P51946;Q10586;P63272;P08697;P51948;P48443;P78543;Q16594;Q92905;P06400;Q8NDY6;P55347;Q9H2A3;Q9UQL6;O95948}

20430 Pathogen[ P03363] interacts with 365 human partners: {Q92886;Q16236;Q5TGS1;Q7RTS1;O15370;Q86U70;Q15699;P12956;Q9UBC0;Q06547;Q8IUM7;P17535;P18848;Q8N8G2;Q8IXJ9;A6NKF2;P35453;O75081;Q14765;Q8N5U6;P10828;Q9UJQ4;Q9Y4Z2;Q92985;O95948;Q9GZS3;P19622;P47902;Q96S65;P35711;Q8NDY6;P55771;Q14938;O75360;Q9Y5J3;Q13503;Q8NAP3;Q8WWW0;Q04206;Q15853;P27540;P17676;O60481;P18146;P49116;O00712;Q9ULG1;Q02930;P13984;Q9H175;O60563;Q3C1V8;Q71SY5;P08151;Q92539;P24863;Q86WV1;P62633;P08651;Q06546;Q15562;Q0VGG9;Q92831;Q8WVC0;P25963;Q03112;O00213;Q9Y606;Q15014;Q8WWW9;Q9HD15;O60281;Q10586;Q06330;P32780;Q8TDD2;P28356;P23760;Q9NQ87;P17947;Q9H2F5;P51532;Q99856;P20719;Q7RTS3;P31271;P78352;Q9BZK7;Q8NHW3;O43439;P04198;P18850;Q9H2W2;P51946;Q9UKI9;Q9UBL3;O60907;Q15545;Q99607;P78317;Q16254;P11474;P16220;Q9UHK0;Q13033;P78543;Q96JK9;P58304;Q99612;P19419;O94983;Q9UQL6;O75475;P14921;Q9HBZ2;Q9Y613;Q15532;O43679;O14593;Q9HB65;O15105;Q15306;O00267;Q15797;Q9UM63;Q969V6;P32243;Q15596;P55347;O43639;Q8NEA6;Q9Y3Y4;P49639;Q13158;Q14686;Q9Y5R6;P06400;Q15327;P17483;P01106;Q9Y4X4;Q9H4S2;Q99743;Q95086;P28749;P17275;P42226;P13349;Q96PK6;Q8N0Z2;P54845;Q6ZNA4;P52657;O00321;P14653;P50221;P35269;Q9BZE3;Q9Y2Y9;P11473;Q16666;P40425;P25791;O43524;P15923;P15336;Q13951;P20749;Q15424;Q8TE85;P32519;P48552;Q96JM2;Q08050;P11831;Q8WYN3;Q9NY61;Q13129;Q9HCK8;P46937;Q14872;P56693;P28702;P20264;P28069;O60583;P14859;P28358;P38159;Q9UPG8;Q8N157;Q22841;P42772;O95238;O75030;Q6P1J9;Q9GZV5;Q14814;P78545;Q32M00;P31749;Q9P1Z2;P18846;Q01094;Q8WYA1;P16333;Q86WI3;O75444;Q9NVC6;O00327;O43186;Q9NQG5;Q9HBD4;O00512;Q5T230;Q9ULH7;P78318;Q9Y2N7;Q9UHV7;O75586;P20265;Q15796;P31268;P84022;P31314;Q8N5J4;O15265;O95271;Q8NI08;P47928;O96004;P49336;P35638;P10914;Q13573;Q6QNY1;Q6ZVN8;Q9BYK8;Q05925;P62987;P35398;Q86UU0;Q33E94;P22415;Q6UUV9;Q13547;P19838;Q76L83;Q99814;Q93074;Q8TAK5;Q92793;Q15651;D6RGH6;O14974;Q13469;P21675;P33076;Q9BWX5;P23193;P35712;O60393;P10242;Q13485;Q9BTT4;Q8N726;Q12968;Q9ULV5;P17482;Q9UIV1;O60806;P23409;P63272;P50750;Q14186;Q6ZN01;P19484;Q9UQR1;Q92541;Q14188;P15884;Q15025;O95644;Q96T88;Q5BXX8;P61978;P05412;P40424;O94906;Q14934;P19532;O60244;O43745;Q9Y224;Q9BWW4;O43918;P55197;Q9NP71;O95343;Q02548;Q8WWW3;Q8NFZ5;O43364;P08047;O60248;Q9UMQ3;Q9NY43;Q8TAU0;P48380;P51531;Q92922;Q96JB5;Q9UJU5;Q9UJG1;Q8NF64;Q53H80;Q9H9S0;Q07687;Q96LB3;Q9UIH9;P78337;P15172;Q12837;Q15561;Q99717;Q9UPW6;Q8N7H5;Q58WW2;P27986;Q6P1X5;Q99594;Q15329;Q99933;Q9NFC8;Q9Y5Q3;Q8IZL2;P15036;Q9BZE0;Q92993;Q01860;O14813;Q12824;Q03052;Q92905;Q8NBF1;O14686;Q10587;Q12888;Q92585;P07737;O14639;O94776;Q6PD62;P23511;Q02577;Q92754;Q16594;Q6VUC0;P01100;Q9H2A3;P49640;P11161;O00482;Q02078}

20431 [Cluster 1858]GO:0070940+P biological\_process [name] dephosphorylation of RNA polymerase II C-terminal domain [def] "The process of removing a phosphate group from an amino acid residue in the C-terminal domain of RNA polymerase II. Some dephosphorylation occurs during transcription while some may occur after the enzyme is released from the template in order to prepare it for the beginning of the transcription cycle again. RNA polymerase II with little or no phosphorylation is referred to as the hypophosphorylated or II(A) form." [GOC

20432 Pathogen[ Q2Q067] interacts with 2 human partners: {Q8IXW5;Q9NQG5}

20433 Pathogen[ P0C214] interacts with 2 human partners: {Q8IXW5;Q9NQG5}

20434 Pathogen[ P03346] interacts with 2 human partners: {Q9NQG5;Q8IXW5}

20435 Pathogen[ Q85601] interacts with 2 human partners: {Q9NQG5;Q8IXW5}

20436 Pathogen[ P14079] interacts with 3 human partners: {Q8IXW5;Q96P16;Q9NQG5}

20437 Pathogen[ P03383] interacts with 2 human partners: {Q8IXW5;Q9NQG5}

20438 Pathogen[ P03410] interacts with 3 human partners: {Q9NQG5;Q96P16;Q8IXW5}

20439 Pathogen[ P14075] interacts with 2 human partners: {Q8IXW5;Q9NQG5}

20440 Pathogen[ P0C206] interacts with 2 human partners: {Q8IXW5;Q9NQG5}

20441 Pathogen[ P03363] interacts with 2 human partners: {Q8IXW5;Q9NQG5}

20442 [Cluster 1859]GO:0021569+P biological\_process [name] rhombomere 3 development [def] "The process whose specific outcome is the progression of rhombomere 3 over time, from its formation to the mature structure. Rhombomeres are transverse segments of the developing rhombencephalon. Rhombomeres are lineage restricted, express different genes from one another, and adopt different developmental fates. Rhombomeres are numbered in anterior to posterior order." [GO\_REF

20443 Pathogen[ Q2Q067] interacts with 4 human partners: {O43364;P11161;P49639;P14652}

20444 Pathogen[ P0C214] interacts with 2 human partners: {P49639;P11161}

20445 Pathogen[ P03346] interacts with 4 human partners: {P49639;P14652;O43364;P11161}

20446 Pathogen[ Q85601] interacts with 3 human partners: {P49639;O43364;P11161}

20447 Pathogen[ P14079] interacts with 3 human partners:{O43364;P11161;P49639}  
20448 Pathogen[ P03383] interacts with 2 human partners:{P49639;P11161}  
20449 Pathogen[ P03410] interacts with 3 human partners:{O43364;P49639;P11161}  
20450 Pathogen[ P14075] interacts with 1 human partners:{P11161}  
20451 Pathogen[ P0C206] interacts with 4 human partners:{P11161;P49639;P14652;O43364}  
20452 Pathogen[ P03363] interacts with 4 human partners:{P49639;P14652;O43364;P11161}  
20453 [Cluster 1860]GO:0031175+P biological\_process [name] neuron projection development  
[def] "The process whose specific outcome is the progression of a neuron projection over  
time, from its formation to the mature structure. A neuron projection is any process  
extending from a neural cell, such as axons or dendrites (collectively called  
neurites)." [GOC  
20454 Pathogen[ Q2Q067] interacts with 16 human  
partners:{Q9UL45;P06400;O95295;Q9NUP1;Q9UBB6;Q6QNY0;Q96EV8;Q8TDH9;P11831;Q9UBB4;Q998  
73;Q86WG3;Q6QNY1;Q13761;P78537;P78543}  
20455 Pathogen[ P0C214] interacts with 19 human  
partners:{Q9UBB6;Q13761;P78543;Q9UBB4;O95295;P11831;P78537;Q8TDH9;Q99873;Q6QNY0;P355  
80;Q00536;Q9UL45;Q96EV8;Q9NUP1;O95155;Q86WG3;Q6QNY1;P06400}  
20456 Pathogen[ P03346] interacts with 22 human  
partners:{Q9UBB4;Q00536;Q99873;O95155;P11831;O95295;P06400;Q7Z3G6;Q6QNY0;P78537;Q96E  
V8;Q6QNY1;Q15019;Q6ZP65;Q13761;P11137;Q9UL45;Q9UBB6;Q8TDH9;P78543;Q9NUP1;Q86WG3}  
20457 Pathogen[ Q85601] interacts with 19 human  
partners:{Q6QNY0;P11831;Q00536;Q9NUP1;Q9UBB4;O95295;P06400;O95155;Q6ZP65;P78537;Q96E  
V8;Q99873;P78543;Q86WG3;P35580;Q9GZM8;Q6QNY1;Q8TDH9;Q13761}  
20458 Pathogen[ P14079] interacts with 20 human  
partners:{P78543;Q86WG3;Q6QNY0;Q99873;Q15078;Q9UL45;Q9UBB6;Q9UBB4;Q9NZ72;Q8TDH9;O952  
95;Q6ZP65;Q7Z3G6;Q9GZM8;Q96EV8;Q9NUP1;Q13761;P11137;Q6QNY1;P78537}  
20459 Pathogen[ P03383] interacts with 17 human  
partners:{Q13761;Q6QNY0;P11831;Q9UBB6;Q9UBB4;O95295;Q8TDH9;Q86WG3;Q00536;P78537;Q9NU  
P1;P06400;Q96EV8;P78543;Q99873;P35580;Q6QNY1}  
20460 Pathogen[ P03410] interacts with 21 human  
partners:{Q9NUP1;P11831;P78537;P11137;Q6QNY1;Q9GZM8;Q6QNY0;Q86WG3;P06400;Q9UL45;O952  
95;Q9UBB6;P78543;P35580;Q13761;Q9NZ72;Q6ZP65;Q9UBB4;Q8TDH9;Q96EV8;Q99873}  
20461 Pathogen[ P14075] interacts with 15 human  
partners:{P78537;Q86WG3;P11831;O95295;Q9UBB4;Q99873;P78543;Q6QNY1;Q6QNY0;Q9NUP1;P064  
00;Q9UBB6;Q8TDH9;Q96EV8;Q13761}  
20462 Pathogen[ P0C206] interacts with 25 human  
partners:{P78537;Q9UBB4;Q9UL45;Q15019;Q99873;Q00536;Q6QNY1;Q6ZP65;Q8TDH9;O95155;Q9GZ  
M8;Q7Z3G6;P11137;Q96EV8;Q9NZ72;Q9UBB6;O95295;P11831;Q9NUP1;Q6QNY0;Q86WG3;P35580;Q137  
61;P78543;P06400}  
20463 Pathogen[ P03363] interacts with 18 human  
partners:{P11137;Q9UBB6;O95155;P78537;P78543;P06400;Q6ZP65;P11831;Q86WG3;Q9UBB4;Q6QN  
Y1;O95295;Q8TDH9;Q13761;Q00536;Q6QNY0;Q9NUP1;Q99873}  
20464 [Cluster 1861]GO:0060390+P biological\_process [name] regulation of SMAD protein import  
into nucleus [def] "Any process that modulates the rate, frequency or extent of SMAD  
protein import into the nucleus, i.e. the directed movement of a SMAD proteins from the  
cytoplasm into the nucleus. Pathway-restricted SMAD proteins and common-partner SMAD  
proteins are involved in the transforming growth factor beta receptor signaling  
pathways." [GOC  
20465 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9GZV5}  
20466 Pathogen[ P0C214] interacts with 1 human partners:{Q9GZV5}  
20467 Pathogen[ P03346] interacts with 1 human partners:{Q9GZV5}  
20468 Pathogen[ Q85601] interacts with 1 human partners:{Q9GZV5}  
20469 Pathogen[ P14079] interacts with 1 human partners:{Q9GZV5}  
20470 Pathogen[ P03383] interacts with 1 human partners:{Q9GZV5}  
20471 Pathogen[ P03410] interacts with 1 human partners:{Q9GZV5}  
20472 Pathogen[ P14075] interacts with 1 human partners:{Q9GZV5}  
20473 Pathogen[ P0C206] interacts with 1 human partners:{Q9GZV5}  
20474 Pathogen[ P03363] interacts with 1 human partners:{Q9GZV5}  
20475 [Cluster 1862]GO:0006470+P biological\_process [name] protein dephosphorylation  
[def] "The process of removing one or more phosphoric residues from a protein." [GOC  
20476 Pathogen[ Q2Q067] interacts with 35 human  
partners:{P30153;Q9H008;Q9H0C8;Q99502;Q8WY54;Q08209;P63151;O14974;O00167;O00743;P621  
40;Q9UNH5;P67775;P30304;O15355;Q9BV47;O14829;Q9Y297;Q9Y5P8;Q99504;P62714;P30307;P368  
73;Q9Y5B0;P62136;P53041;O95476;P35813;O75688;P30305;P49593;O14595;Q16829;Q9GZU7;O152  
97}  
20477 Pathogen[ P0C214] interacts with 41 human  
partners:{P35813;O14595;P30307;P62140;Q9BV47;P30153;O14829;O00167;Q9Y297;Q9GZU7;O149  
74;P62714;Q08209;P63151;P62136;O95278;P67775;Q99504;P30305;Q16829;Q9UNH5;P53041;Q9P0  
J1;O95476;O15297;Q8N3J5;Q8WY54;Q3ZCQ8;P36873;Q13615;Q9Y5B0;P49593;O00743;Q96GD0;O756  
88;Q9H008;Q9Y5P8;Q9H0C8;P30304;Q9P2J9;Q99502}  
20478 Pathogen[ P03346] interacts with 44 human  
partners:{P62136;P43378;Q9NRX4;Q9H0C8;O00743;P35813;O14829;Q8WY54;O00167;P30304;Q9H3  
S7;P62714;P67775;Q99502;P49593;P30305;Q9BV47;P30153;Q9Y5P8;Q9Y5B0;Q9GZU7;P17706;Q061  
90;P36873;O15297;O75688;P53041;Q16829;O95476;Q3ZCQ8;O15355;P62140;Q08209;O95278;Q9Y2  
R2;Q99504;O14974;Q9Y297;P24666;O14595;Q9H008;Q9UNH5;P30307;P63151}  
20479 Pathogen[ Q85601] interacts with 37 human



partners:{075688;014829;P62714;P63151;Q9GZU7;Q9H0C8;P49593;Q16829;Q99504;P30153;P30304;Q9H008;Q95278;Q9BV47;Q08209;Q9UNH5;P30305;O15355;P30307;P62136;Q9Y5B0;P36873;Q99502;O15297;Q3ZCQ8;P53041;P67775;Q95476;Q8WY54;O14974;O00743;P62140;P35813;O00167;O14595;Q9Y5P8;Q8N3J5}

20480 Pathogen[ P14079] interacts with 37 human  
partners:{Q3ZCQ8;Q99502;P49593;Q9NRX4;P30307;P53041;O14990;Q9Y5B0;O15297;P36873;Q16829;P16298;Q9H008;P62136;P63151;P30304;Q96GD0;P35813;Q8WY54;O14829;P62140;Q9H0C8;Q9BV47;Q06190;Q95476;Q75688;Q99504;P30305;P30153;O00167;Q9Y5P8;O15355;Q08209;O00743;Q9UNH5;Q9GZU7}

20481 Pathogen[ P03383] interacts with 23 human  
partners:{P30307;Q99504;P62140;O00167;Q9H0C8;P30304;P62714;P30153;P67775;O15297;O14990;P35813;P36873;P62136;Q9Y5P8;Q9GZU7;Q9UNH5;P53041;O15355;Q8WY54;Q9Y5B0;O00743;Q9H008}

20482 Pathogen[ P03410] interacts with 40 human  
partners:{P62714;O15355;P35813;Q8N3J5;Q08209;Q99502;Q9GZU7;Q8WY54;P62136;P63151;Q9UNH5;Q06190;Q9H0C8;Q75688;Q9NRX4;Q96GD0;Q16829;O15297;Q3ZCQ8;P62140;P30304;O14974;P36873;P53041;O14990;Q99504;Q9H008;Q95476;Q9Y5B0;P24666;P30153;O00167;P49593;P30305;P67775;Q9BV47;P30307;O00743;O14829;Q9Y5P8}

20483 Pathogen[ P14075] interacts with 24 human  
partners:{Q9Y5P8;O15297;P35813;Q99504;Q9Y5B0;P62140;O00167;P36873;P62136;O00743;Q9H0C8;Q9H008;P53041;P30304;P62714;P67775;P30153;Q9GZU7;Q8WY54;Q99502;Q9UNH5;O15355;P30307;O14990}

20484 Pathogen[ P0C206] interacts with 45 human  
partners:{Q06190;O00167;Q99504;Q9BV47;O00743;Q9GZU7;P30307;Q8WY54;P30153;Q13615;Q9NRX4;P53041;P63151;P30305;P67775;Q9Y2R2;Q16829;Q95476;P49593;O14974;O15355;Q3ZCQ8;P24666;Q75688;Q9UNH5;Q9Y5B0;Q95278;P62714;Q9H008;P62140;P30304;Q99502;O14829;Q96GD0;Q08209;O14595;O15297;P36873;Q8N3J5;Q9Y5P8;O14990;P17706;P62136;P35813;Q9H0C8}

20485 Pathogen[ P03363] interacts with 37 human  
partners:{P17706;Q9Y5P8;P62136;O15355;Q9Y5B0;Q9H3S7;Q9UNH5;P62714;O14829;P36873;Q9Y2R2;P43378;P62140;P53041;Q06190;O00743;Q3ZCQ8;Q95476;P30304;P63151;Q16829;Q9H0C8;Q99504;Q9H008;O14974;Q12923;O00167;Q9GZU7;Q9BV47;O15297;P30153;P30307;Q75688;P24666;P67775;Q8WY54;O14595}

20486 [Cluster 1863]GO:0034976+P biological\_process [name] response to endoplasmic reticulum stress [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a stimulus indicating endoplasmic reticulum (ER) stress. ER stress usually results from the accumulation of unfolded or misfolded proteins in the ER lumen." [GOC

20487 Pathogen[ Q2Q067] interacts with 8 human  
partners:{Q9BZQ8;Q9BXH1;P35638;P17676;Q8TAC9;Q96RU7;Q8IUR6;P18848}

20488 Pathogen[ P0C214] interacts with 9 human  
partners:{Q8TAC9;P17676;Q9BXH1;P18848;Q9BZQ8;Q8IUR6;Q96RU7;O95155;P35638}

20489 Pathogen[ P03346] interacts with 11 human  
partners:{P17676;P35638;Q95155;Q70SY1;Q8IUR6;Q13438;P18848;Q8TAC9;Q9BZQ8;Q96RU7;Q9BXH1}

20490 Pathogen[ Q85601] interacts with 9 human  
partners:{P17676;Q9BXH1;Q8IUR6;Q8TAC9;P18848;Q95155;Q9BZQ8;Q96RU7;P35638}

20491 Pathogen[ P14079] interacts with 7 human  
partners:{Q9BXH1;Q8TAC9;P35638;Q96RU7;Q9BZQ8;Q8IUR6;Q13438}

20492 Pathogen[ P03383] interacts with 8 human  
partners:{Q8IUR6;Q8TAC9;P35638;Q9BZQ8;P17676;Q96RU7;P18848;Q9BXH1}

20493 Pathogen[ P03410] interacts with 9 human  
partners:{P35638;Q8TAC9;P17676;Q9BXH1;P18848;Q8IUR6;Q96RU7;Q9BZQ8;Q13438}

20494 Pathogen[ P14075] interacts with 8 human  
partners:{P35638;Q9BZQ8;Q9BXH1;P18848;Q96RU7;Q8TAC9;P17676;Q8IUR6}

20495 Pathogen[ P0C206] interacts with 10 human  
partners:{Q9BZQ8;Q8IUR6;Q95155;Q9BXH1;Q96RU7;P17676;Q13438;Q8TAC9;P18848;P35638}

20496 Pathogen[ P03363] interacts with 8 human  
partners:{P18848;P17676;Q9BZQ8;Q95155;P35638;Q13438;Q8IUR6;Q9BXH1}

20497 [Cluster 1864]GO:0031063+P biological\_process [name] regulation of histone deacetylation [def] "Any process that modulates the frequency, rate or extent of the removal of acetyl groups from histones." [GOC

20498 Pathogen[ Q2Q067] interacts with 1 human partners:{075376}

20499 Pathogen[ P0C214] interacts with 1 human partners:{075376}

20500 Pathogen[ P03346] interacts with 1 human partners:{075376}

20501 Pathogen[ Q85601] interacts with 1 human partners:{075376}

20502 Pathogen[ P14079] interacts with 2 human partners:{P45983;075376}

20503 Pathogen[ P03383] interacts with 1 human partners:{075376}

20504 Pathogen[ P03410] interacts with 1 human partners:{075376}

20505 Pathogen[ P14075] interacts with 1 human partners:{075376}

20506 Pathogen[ P0C206] interacts with 1 human partners:{075376}

20507 Pathogen[ P03363] interacts with 1 human partners:{075376}

20508 [Cluster 1865]GO:0042692+P biological\_process [name] muscle cell differentiation [def] "The process in which a relatively unspecialized cell acquires specialized features of a muscle cell." [CL

20509 Pathogen[ Q2Q067] interacts with 14 human  
partners:{Q12982;P35712;P13349;Q92990;O00458;Q8NF91;P15172;P60953;Q6STE5;Q9UH90;P159

23;Q15759;P23409;Q02078}  
20510 Pathogen[ POC214] interacts with 12 human  
partners:{Q9UH90;O00458;P13349;P15172;Q6STE5;P60953;Q02078;Q8NF91;P15923;Q12982;Q15759;P35712}  
20511 Pathogen[ P03346] interacts with 16 human  
partners:{Q02078;Q96PU8;O00458;Q92990;P13349;P15923;P15172;P23409;P15173;P60953;Q6STE5;Q9UH90;P35712;Q15759;Q12982;Q8NF91}  
20512 Pathogen[ Q85601] interacts with 13 human  
partners:{O00458;Q02078;P15172;Q6STE5;P13349;Q12982;P35712;P23409;P15923;Q15759;P60953;Q8NF91;Q9UH90}  
20513 Pathogen[ P14079] interacts with 14 human  
partners:{Q12982;Q02078;Q06413;Q6STE5;P13349;P23409;P52564;P35712;P15923;Q92990;Q9UH90;Q15759;O00458;Q8NF91}  
20514 Pathogen[ P03383] interacts with 9 human  
partners:{O00458;P35712;P15172;P60953;Q6STE5;P15923;Q15759;Q92990;Q02078}  
20515 Pathogen[ P03410] interacts with 11 human  
partners:{P35712;P23409;P15923;Q92990;P13349;P60953;Q12982;Q02078;Q6STE5;O00458;Q8NF91}  
20516 Pathogen[ P14075] interacts with 9 human  
partners:{P60953;Q92990;Q15759;P15172;P15923;P35712;O00458;Q02078;Q6STE5}  
20517 Pathogen[ POC206] interacts with 15 human  
partners:{Q12982;Q02078;Q6STE5;Q96PU8;Q9UH90;P23409;O00458;Q8NF91;Q92990;P13349;P15923;P60953;P35712;P15172;Q15759}  
20518 Pathogen[ P03363] interacts with 13 human  
partners:{Q8NF91;Q6STE5;Q92990;P13349;Q96PU8;P15923;Q9UH90;P35712;P23409;P15172;P60953;Q12982;Q02078}  
20519 [Cluster 1866]GO:0035330+P biological\_process [name] regulation of hippo signaling cascade [def] "Any process that modulates the frequency, rate or extent of hippo signaling." [GOC  
20520 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8IX03}  
20521 Pathogen[ POC214] interacts with 1 human partners:{Q8IX03}  
20522 Pathogen[ P03346] interacts with 1 human partners:{Q8IX03}  
20523 Pathogen[ Q85601] interacts with 1 human partners:{Q8IX03}  
20524 Pathogen[ P14079] interacts with 1 human partners:{Q8IX03}  
20525 Pathogen[ P03383] interacts with 1 human partners:{Q8IX03}  
20526 Pathogen[ P03410] interacts with 1 human partners:{Q8IX03}  
20527 Pathogen[ P14075] interacts with 1 human partners:{Q8IX03}  
20528 Pathogen[ POC206] interacts with 1 human partners:{Q8IX03}  
20529 Pathogen[ P03363] interacts with 1 human partners:{Q8IX03}  
20530 [Cluster 1867]GO:0043045+P biological\_process [name] DNA methylation involved in embryo development [def] "The covalent transfer of a methyl group to C-5 of cytosine that contributes to the epigenetic regulation of embryonic gene expression." [GOC  
20531 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9Y6K1;Q9UBC3}  
20532 Pathogen[ POC214] interacts with 1 human partners:{Q9Y6K1}  
20533 Pathogen[ P03346] interacts with 4 human partners:{Q9Y6K1;Q9NU63;Q9UBC3;Q9NRD5}  
20534 Pathogen[ Q85601] interacts with 3 human partners:{Q9Y6K1;Q9NU63;Q9UBC3}  
20535 Pathogen[ P14079] interacts with 3 human partners:{Q9Y6K1;Q9NU63;Q9UBC3}  
20536 Pathogen[ P03383] interacts with 1 human partners:{Q9Y6K1}  
20537 Pathogen[ P03410] interacts with 4 human partners:{Q9NRD5;Q9UBC3;Q9Y6K1;Q9NU63}  
20538 Pathogen[ P14075] interacts with 1 human partners:{Q9Y6K1}  
20539 Pathogen[ POC206] interacts with 4 human partners:{Q9Y6K1;Q9UBC3;Q9NU63;Q9NRD5}  
20540 Pathogen[ P03363] interacts with 2 human partners:{Q9Y6K1;Q9UBC3}  
20541 [Cluster 1868]GO:0051302+P biological\_process [name] regulation of cell division [def] "Any process that modulates the frequency, rate or extent of the physical partitioning and separation of a cell into daughter cells." [GOC  
20542 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8TDN4}  
20543 Pathogen[ POC214] interacts with 1 human partners:{Q8TDN4}  
20544 Pathogen[ P03346] interacts with 2 human partners:{Q8TDN4;Q9BTV7}  
20545 Pathogen[ Q85601] interacts with 1 human partners:{Q8TDN4}  
20546 Pathogen[ P14079] interacts with 3 human partners:{Q9BTV7;Q8TDN4;Q86Y91}  
20547 Pathogen[ P03383] interacts with 1 human partners:{Q8TDN4}  
20548 Pathogen[ P03410] interacts with 3 human partners:{Q86Y91;Q9BTV7;Q8TDN4}  
20549 Pathogen[ P14075] interacts with 1 human partners:{Q8TDN4}  
20550 Pathogen[ POC206] interacts with 3 human partners:{Q8TDN4;Q86Y91;Q9BTV7}  
20551 Pathogen[ P03363] interacts with 1 human partners:{Q8TDN4}  
20552 [Cluster 1869]GO:0034244+P biological\_process [name] negative regulation of transcription elongation from RNA polymerase II promoter [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of transcription elongation, the extension of an RNA molecule after transcription initiation and promoter clearance by the addition of ribonucleotides, catalyzed by RNA polymerase II." [GOC  
20553 Pathogen[ Q2Q067] interacts with 5 human  
partners:{Q15910;P18615;Q56P03;Q9H3P2;P63272}  
20554 Pathogen[ POC214] interacts with 5 human  
partners:{Q15910;P18615;P63272;Q56P03;Q9H3P2}  
20555 Pathogen[ P03346] interacts with 5 human  
partners:{Q56P03;Q9H3P2;P63272;Q15910;P18615}

20556 Pathogen[ Q85601] interacts with 5 human partners: {Q56P03;Q9H3P2;P18615;Q15910;P63272}

20557 Pathogen[ P14079] interacts with 5 human partners: {Q56P03;Q9H3P2;P18615;P63272;Q15910}

20558 Pathogen[ P03383] interacts with 5 human partners: {Q56P03;P63272;Q9H3P2;Q15910;P18615}

20559 Pathogen[ P03410] interacts with 5 human partners: {P18615;Q9H3P2;P63272;Q15910;Q56P03}

20560 Pathogen[ P14075] interacts with 5 human partners: {P18615;Q56P03;Q15910;Q9H3P2;P63272}

20561 Pathogen[ P0C206] interacts with 5 human partners: {Q56P03;Q15910;P18615;Q9H3P2;P63272}

20562 Pathogen[ P03363] interacts with 5 human partners: {Q56P03;Q15910;P18615;Q9H3P2;P63272}

20563 [Cluster 1870]GO:0009116+P biological\_process [name] nucleoside metabolic process [def] "The chemical reactions and pathways involving a nucleoside, a nucleobase linked to either beta-D-ribofuranose (a ribonucleoside) or 2-deoxy-beta-D-ribofuranose, (a deoxyribonucleoside), e.g. adenosine, guanosine, inosine, cytidine, uridine and deoxyadenosine, deoxyguanosine, deoxycytidine and thymidine (= deoxythymidine)." [GOC

20564 Pathogen[ Q2Q067] interacts with 2 human partners: {P07741;P11172}

20565 Pathogen[ P0C214] interacts with 5 human partners: {O95045;P07741;P11172;Q16831;Q13126}

20566 Pathogen[ P03346] interacts with 2 human partners: {P11172;P07741}

20567 Pathogen[ Q85601] interacts with 3 human partners: {P11172;O95045;P07741}

20568 Pathogen[ P14079] interacts with 5 human partners: {Q16831;P11172;O95045;Q9BXI3;P07741}

20569 Pathogen[ P03383] interacts with 2 human partners: {P07741;P11172}

20570 Pathogen[ P03410] interacts with 5 human partners: {O95045;P07741;Q16831;P11172;Q9BXI3}

20571 Pathogen[ P14075] interacts with 3 human partners: {P11172;O95045;P07741}

20572 Pathogen[ P0C206] interacts with 4 human partners: {Q16831;O95045;P11172;P07741}

20573 Pathogen[ P03363] interacts with 2 human partners: {P07741;P11172}

20574 [Cluster 1871]GO:0001935+P biological\_process [name] endothelial cell proliferation [def] "The multiplication or reproduction of endothelial cells, resulting in the expansion of a cell population. Endothelial cells are thin flattened cells which line the inside surfaces of body cavities, blood vessels, and lymph vessels, making up the endothelium." [GOC

20575 Pathogen[ Q2Q067] interacts with 2 human partners: {Q12959;Q9NVV9}

20576 Pathogen[ P0C214] interacts with 2 human partners: {Q9NVV9;Q12959}

20577 Pathogen[ P03346] interacts with 2 human partners: {Q9NVV9;Q12959}

20578 Pathogen[ Q85601] interacts with 2 human partners: {Q9NVV9;Q12959}

20579 Pathogen[ P14079] interacts with 1 human partners: {Q9NVV9}

20580 Pathogen[ P03383] interacts with 1 human partners: {Q9NVV9}

20581 Pathogen[ P03410] interacts with 2 human partners: {Q9NVV9;Q12959}

20582 Pathogen[ P14075] interacts with 1 human partners: {Q9NVV9}

20583 Pathogen[ P0C206] interacts with 2 human partners: {Q12959;Q9NVV9}

20584 Pathogen[ P03363] interacts with 2 human partners: {Q12959;Q9NVV9}

20585 [Cluster 1872]GO:0043507+P biological\_process [name] positive regulation of JUN kinase activity [def] "Any process that activates or increases the frequency, rate or extent of JUN kinase activity." [GOC

20586 Pathogen[ Q2Q067] interacts with 6 human partners: {O60315;Q12933;O14641;Q13233;Q5TCQ9;O43318}

20587 Pathogen[ P0C214] interacts with 6 human partners: {Q5TCQ9;O43318;Q13233;O14641;Q12933;O60315}

20588 Pathogen[ P03346] interacts with 5 human partners: {O60315;Q5TCQ9;O14641;Q13233;O43318}

20589 Pathogen[ Q85601] interacts with 6 human partners: {O60315;O14641;Q12933;Q5TCQ9;Q13233;O43318}

20590 Pathogen[ P14079] interacts with 3 human partners: {O14641;O60315;Q12933}

20591 Pathogen[ P03383] interacts with 5 human partners: {Q13233;O43318;O14641;Q12933;Q5TCQ9}

20592 Pathogen[ P03410] interacts with 5 human partners: {Q5TCQ9;Q13233;O43318;Q12933;O14641}

20593 Pathogen[ P14075] interacts with 5 human partners: {Q5TCQ9;O14641;Q12933;O43318;Q13233}

20594 Pathogen[ P0C206] interacts with 5 human partners: {Q5TCQ9;O43318;Q12933;Q13233;O60315}

20595 Pathogen[ P03363] interacts with 6 human partners: {O60315;Q12933;O43318;Q5TCQ9;O14641;Q13233}

20596 [Cluster 1873]GO:0010172+P biological\_process [name] embryonic body morphogenesis [def] "The process in which the anatomical structures of the embryonic soma are generated and organized." [GOC

20597 Pathogen[ Q2Q067] interacts with 2 human partners: {Q9Y2X9;Q86YP4}

20598 Pathogen[ P0C214] interacts with 2 human partners: {Q86YP4;Q9Y2X9}

20599 Pathogen[ P03346] interacts with 5 human partners: {Q9HBG6;Q9BT04;Q86YP4;Q9Y2X9;Q9Y586}

20600 Pathogen[ Q85601] interacts with 3 human partners:{Q9Y2X9;Q86YP4;Q9BT04}  
20601 Pathogen[ P14079] interacts with 4 human partners:{Q9Y586;Q86YP4;Q9Y2X9;Q9BT04}  
20602 Pathogen[ P03383] interacts with 3 human partners:{Q86YP4;Q9Y2X9;Q9BT04}  
20603 Pathogen[ P03410] interacts with 5 human partners:{Q9Y586;Q86YP4;Q9Y2X9;Q9BT04;Q9HBG6}  
20604 Pathogen[ P14075] interacts with 3 human partners:{Q9BT04;Q9Y2X9;Q86YP4}  
20605 Pathogen[ P0C206] interacts with 4 human partners:{Q9Y2X9;Q9BT04;Q86YP4;Q9Y586}  
20606 Pathogen[ P03363] interacts with 4 human partners:{Q86YP4;Q9Y2X9;Q9HBG6;Q9BT04}  
20607 [Cluster 1874]GO:0015964+P biological\_process [name] diadenosine triphosphate catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of diadenosine triphosphate, a derivative of the nucleoside adenosine with three phosphate groups attached." [GOC  
20608 Pathogen[ Q2Q067] interacts with 1 human partners:{P49789}  
20609 Pathogen[ P0C214] interacts with 1 human partners:{P49789}  
20610 Pathogen[ P03346] interacts with 1 human partners:{P49789}  
20611 Pathogen[ Q85601] interacts with 1 human partners:{P49789}  
20612 Pathogen[ P14079] interacts with 1 human partners:{P49789}  
20613 Pathogen[ P03383] interacts with 1 human partners:{P49789}  
20614 Pathogen[ P03410] interacts with 1 human partners:{P49789}  
20615 Pathogen[ P14075] interacts with 1 human partners:{P49789}  
20616 Pathogen[ P0C206] interacts with 1 human partners:{P49789}  
20617 Pathogen[ P03363] interacts with 1 human partners:{P49789}  
20618 [Cluster 1875]GO:0009612+P biological\_process [name] response to mechanical stimulus [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a mechanical stimulus." [GOC  
20619 Pathogen[ Q2Q067] interacts with 10 human partners:{P01100;P14921;Q04206;P14635;P29474;P53805;O14770;P15407;Q9H3M7;P78543}  
20620 Pathogen[ P0C214] interacts with 13 human partners:{P29474;P68133;P14921;P78543;P15407;Q9H3M7;P01100;P17275;Q04206;P14635;P05412;O14770;P53805}  
20621 Pathogen[ P03346] interacts with 12 human partners:{P53805;P05412;P29474;P17275;Q04206;P14921;P14635;P15407;P78543;P01100;Q9H3M7;O14770}  
20622 Pathogen[ Q85601] interacts with 13 human partners:{P68133;P14921;P15407;P01100;P14635;P78543;Q04206;P05412;P53805;P29474;P17275;Q9H3M7;O14770}  
20623 Pathogen[ P14079] interacts with 10 human partners:{P78543;P53805;P14635;P17275;O14770;P15407;Q9H3M7;P05412;P01100;P68133}  
20624 Pathogen[ P03383] interacts with 12 human partners:{P29474;P14921;P53805;P14635;O14770;P78543;P15407;P01100;Q9H3M7;Q04206;P17275;P05412}  
20625 Pathogen[ P03410] interacts with 14 human partners:{Q04206;Q9H3M7;Q9BQB4;P01100;P29474;P14635;P53805;P17275;P68133;P05412;P78543;P15407;O14770;P14921}  
20626 Pathogen[ P14075] interacts with 12 human partners:{P29474;Q04206;P05412;P14635;P17275;P53805;O14770;P78543;Q9H3M7;P14921;P01100;P15407}  
20627 Pathogen[ P0C206] interacts with 13 human partners:{P53805;P14921;P15407;P17275;P05412;O14770;P68133;P01100;Q04206;P29474;Q9H3M7;P14635;P78543}  
20628 Pathogen[ P03363] interacts with 11 human partners:{P29474;Q04206;P53805;Q9H3M7;P78543;P68133;P14921;P17275;P15407;P05412;P01100}  
20629 [Cluster 1876]GO:0031572+P biological\_process [name] G2/M transition DNA damage checkpoint [def] "A cell cycle checkpoint that blocks cell cycle progression from G2 to M phase in response to DNA damage." [GOC  
20630 Pathogen[ Q2Q067] interacts with 10 human partners:{Q99708;Q9NZJ0;O14757;Q9NWX8;Q6UWZ7;Q9UM11;Q6NUQ1;Q9HAW4;Q9NXX7;Q96RL1}  
20631 Pathogen[ P0C214] interacts with 10 human partners:{Q6NUQ1;Q9NWX8;Q99708;Q9HAW4;Q6UWZ7;Q9NZJ0;Q96RL1;Q9NXX7;Q9UM11;O14757}  
20632 Pathogen[ P03346] interacts with 11 human partners:{Q9NZJ0;Q9UM11;Q99708;O14757;Q96RL1;Q6NUQ1;Q9HAW4;Q496M5;Q9NXX7;Q9NWX8;Q6UWZ7}  
20633 Pathogen[ Q85601] interacts with 11 human partners:{Q96RL1;Q6NUQ1;Q99708;Q9NZJ0;O14757;Q9HAW4;Q6UWZ7;Q9NWX8;Q9UM11;Q496M5;Q9NXX7}  
20634 Pathogen[ P14079] interacts with 9 human partners:{Q6NUQ1;Q6UWZ7;Q9HAW4;Q9NXX7;Q9UM11;Q99708;Q9NWX8;Q96RL1;Q9NZJ0}  
20635 Pathogen[ P03383] interacts with 10 human partners:{O14757;Q9NZJ0;Q96RL1;Q9HAW4;Q9UM11;Q9NWX8;Q99708;Q6NUQ1;Q9NXX7;Q6UWZ7}  
20636 Pathogen[ P03410] interacts with 10 human partners:{Q96RL1;Q9NXX7;Q99708;Q9NWX8;Q9HAW4;Q6NUQ1;Q9UM11;O14757;Q6UWZ7;Q9NZJ0}  
20637 Pathogen[ P14075] interacts with 10 human partners:{Q9UM11;Q9NWX8;Q6NUQ1;Q9NXX7;Q6UWZ7;Q9HAW4;Q9NZJ0;Q99708;Q96RL1;O14757}  
20638 Pathogen[ P0C206] interacts with 10 human

20639 partners: {Q496M5;Q99708;Q6NUQ1;Q9NWX8;Q9UM11;Q9NZJ0;Q6UWZ7;Q96RL1;Q9HAW4;Q9NXR7}  
Pathogen[ P03363] interacts with 10 human

20640 partners: {Q9HAW4;Q96RL1;Q6UWZ7;Q6NUQ1;Q9UM11;Q99708;Q9NWX8;Q9NXR7;Q9NZJ0;O14757}  
[Cluster 1877]GO:0006348+P biological\_process [name] chromatin silencing at telomere  
[def] "Repression of transcription of telomeric DNA by altering the structure of  
chromatin." [PMID

20641 Pathogen[ Q2Q067] interacts with 2 human partners: {Q8IXJ6;O14929}  
20642 Pathogen[ P0C214] interacts with 2 human partners: {O14929;Q8IXJ6}  
20643 Pathogen[ P03346] interacts with 2 human partners: {Q8IXJ6;O14929}  
20644 Pathogen[ Q85601] interacts with 2 human partners: {O14929;Q8IXJ6}  
20645 Pathogen[ P14079] interacts with 2 human partners: {O14929;Q8IXJ6}  
20646 Pathogen[ P03383] interacts with 1 human partners: {O14929}  
20647 Pathogen[ P03410] interacts with 2 human partners: {Q8IXJ6;O14929}  
20648 Pathogen[ P14075] interacts with 1 human partners: {O14929}  
20649 Pathogen[ P0C206] interacts with 2 human partners: {O14929;Q8IXJ6}  
20650 Pathogen[ P03363] interacts with 1 human partners: {O14929}

20651 [Cluster 1878]GO:0002755+P biological\_process [name] MyD88-dependent toll-like  
receptor signaling pathway [def] "Any series of molecular signals generated as a  
consequence of binding to a toll-like receptor where the MyD88 adaptor molecule mediates  
transduction of the signal. Toll-like receptors directly bind pattern motifs from a  
variety of microbial sources to initiate innate immune response." [GOC

20652 Pathogen[ Q2Q067] interacts with 30 human  
partners: {P01100;Q15653;Q04206;Q9NYJ8;Q15025;Q8N5C8;O75582;Q9Y6K9;Q13233;P61088;Q96F  
A3;P19419;P19838;P15336;P25963;P0CG47;O14920;P45984;Q00653;P0CG48;O43318;P62987;Q134  
04;Q9HAT8;O15111;Q15759;Q16829;Q02078;Q15750;P62979}

20653 Pathogen[ P0C214] interacts with 34 human  
partners: {Q00653;O15111;Q9Y6K9;P19838;P15336;P01100;Q96FA3;P19419;Q04206;Q9HAT8;Q134  
04;Q15653;O43318;Q02078;Q8N5C8;Q13233;P0CG48;Q15025;P10809;P25963;Q16829;O75582;P629  
87;Q15750;P05412;Q15759;P0CG47;P45984;P16220;P62979;O14920;Q9NYJ8;P61088;P18846}

20654 Pathogen[ P03346] interacts with 34 human  
partners: {Q9Y6K9;P05412;P45984;Q02078;O15111;P16220;P15336;P62987;P25963;Q15653;P194  
19;P0CG48;Q04206;Q96FA3;Q13404;Q8N5C8;P61088;Q9NYJ8;Q15025;Q9HAT8;Q13233;O75582;Q157  
50;Q16829;P62979;Q15759;P0CG47;P45985;P19838;O14920;O43318;P01100;P18846;Q00653}

20655 Pathogen[ Q85601] interacts with 33 human  
partners: {Q02078;Q15750;Q9NYJ8;O15111;P19419;Q9HAT8;Q16829;P18846;P0CG48;Q15653;Q96F  
A3;Q13404;Q8N5C8;P01100;Q9Y6K9;P16220;O14920;Q04206;Q15025;P05412;O75582;P62979;Q157  
59;P0CG47;P45984;Q13233;P62987;Q00653;P15336;O43318;P61088;P19838;P25963}

20656 Pathogen[ P14079] interacts with 32 human  
partners: {Q9HAT8;Q8N5C8;Q02078;P0CG48;Q06413;O43187;P53779;P52564;O75582;Q16829;Q134  
04;Q15750;Q15025;P62979;P62987;Q96FA3;P45984;P45983;Q16644;Q15759;Q9Y6K9;P45985;P153  
36;Q9Y6Y9;Q13164;P05412;P0CG47;Q9Y239;P01100;Q99836;P19419;Q15653}

20657 Pathogen[ P03383] interacts with 32 human  
partners: {O75582;P16220;Q9Y6K9;P62987;Q13233;Q00653;O14920;O15111;P19419;P18846;Q156  
53;O43318;Q8N5C8;P61088;Q13404;Q15025;Q15759;P25963;P01100;P62979;P0CG47;Q96FA3;Q042  
06;P45984;P0CG48;P15336;Q9NYJ8;P19838;Q02078;Q9HAT8;Q15750;P05412}

20658 Pathogen[ P03410] interacts with 37 human  
partners: {Q04206;P19838;P0CG48;O14920;Q9Y239;P19419;O15111;Q15750;Q96FA3;O75582;O431  
87;Q15653;Q15025;P61088;Q13233;P62979;P01100;P18846;O43318;Q16829;P45985;Q9NYJ8;Q8N5  
C8;P16220;Q9HAT8;P05412;Q9Y6Y9;P45984;P62987;P53779;Q02078;Q00653;Q13404;Q9Y6K9;P259  
63;P15336;P0CG47}

20659 Pathogen[ P14075] interacts with 32 human  
partners: {O15111;Q04206;Q15750;P05412;Q15759;O75582;P61088;P19419;P15336;Q15653;P259  
63;Q8N5C8;O14920;P0CG48;P62979;Q15025;O43318;Q9HAT8;Q96FA3;P62987;Q02078;P01100;P0CG  
47;Q13404;P19838;Q00653;P16220;Q9Y6K9;Q13233;P18846;P45984;Q9NYJ8}

20660 Pathogen[ P0C206] interacts with 34 human  
partners: {P0CG48;O14920;Q9Y6K9;Q02078;P16220;Q8N5C8;O75582;P45984;P05412;P25963;P194  
19;Q9HAT8;O43318;P15336;Q15653;P18846;Q16829;Q13233;Q15025;P61088;P19838;P01100;Q042  
06;O15111;P62979;Q9NYJ8;P45985;P0CG47;Q96FA3;Q00653;Q15750;P62987;Q13404;Q15759}

20661 Pathogen[ P03363] interacts with 27 human  
partners: {O14920;Q04206;P25963;O15111;Q9NYJ8;P16220;Q9Y6K9;P19419;O43318;Q15750;P610  
88;P15336;Q15653;Q16829;Q00653;Q96FA3;P18846;P62987;P19838;Q15025;P05412;Q13404;Q9HA  
T8;Q8N5C8;Q13233;P01100;Q02078}

20662 [Cluster 1879]GO:0007611+P biological\_process [name] learning or memory [def] "The  
acquisition and processing of information and/or the storage and retrieval of this  
information over time." [GOC

20663 Pathogen[ Q2Q067] interacts with 6 human  
partners: {P10827;P51816;P11161;Q92529;P06744;P18146}

20664 Pathogen[ P0C214] interacts with 5 human  
partners: {P05937;Q92529;P51816;P18146;P11161}

20665 Pathogen[ P03346] interacts with 8 human  
partners: {P10827;P05937;P11161;P06744;P18146;Q92529;Q68G74;P51816}

20666 Pathogen[ Q85601] interacts with 5 human  
partners: {P18146;P06744;Q92529;P10827;P11161}

20667 Pathogen[ P14079] interacts with 7 human  
partners: {P05937;Q06413;P06744;P10827;P11161;P51816;Q92529}

20668 Pathogen[ P03383] interacts with 4 human partners: {P51816;P18146;P06744;P11161}

20669 Pathogen[ P03410] interacts with 6 human partners:{Q92529;P06744;P05937;P51816;P18146;P11161}

20670 Pathogen[ P14075] interacts with 4 human partners:{P51816;P06744;P11161;P18146}

20671 Pathogen[ POC206] interacts with 7 human partners:{P11161;P51816;P18146;P06744;Q68G74;Q92529;P10827}

20672 Pathogen[ P03363] interacts with 7 human partners:{P06744;P18146;Q92529;Q9NZR1;P51816;P05937;P11161}

20673 [Cluster 1880]GO:0061036+P biological\_process [name] positive regulation of cartilage development [def] "Any process that increases the rate, frequency, or extent of cartilage development, the process whose specific outcome is the progression of the cartilage over time, from its formation to the mature structure. Cartilage is a connective tissue dominated by extracellular matrix containing collagen type II and large amounts of proteoglycan, particularly chondroitin sulfate." [GOC

20674 Pathogen[ Q2Q067] interacts with 4 human partners:{P35712;Q05516;P35711;Q15797}

20675 Pathogen[ POC214] interacts with 4 human partners:{P35711;Q15797;P35712;Q05516}

20676 Pathogen[ P03346] interacts with 4 human partners:{Q15797;Q05516;P35712;P35711}

20677 Pathogen[ Q85601] interacts with 4 human partners:{Q15797;P35712;P35711;Q05516}

20678 Pathogen[ P14079] interacts with 4 human partners:{P35711;P35712;Q05516;Q15797}

20679 Pathogen[ P03383] interacts with 4 human partners:{P35712;Q15797;Q05516;P35711}

20680 Pathogen[ P03410] interacts with 2 human partners:{P35712;Q15797}

20681 Pathogen[ P14075] interacts with 3 human partners:{P35711;P35712;Q05516}

20682 Pathogen[ POC206] interacts with 4 human partners:{Q05516;P35711;Q15797;P35712}

20683 Pathogen[ P03363] interacts with 4 human partners:{P35711;Q15797;P35712;Q05516}

20684 [Cluster 1881]GO:0019046+P biological\_process [name] reactivation of latent virus [def] "The reactivation of a virus from a latent to a lytic state." [ISBN

20685 Pathogen[ Q2Q067] interacts with 1 human partners:{P51610}

20686 Pathogen[ POC214] interacts with 1 human partners:{P51610}

20687 Pathogen[ P03346] interacts with 1 human partners:{P51610}

20688 Pathogen[ Q85601] interacts with 1 human partners:{P51610}

20689 Pathogen[ P14079] interacts with 1 human partners:{P51610}

20690 Pathogen[ P03383] interacts with 1 human partners:{P51610}

20691 Pathogen[ P03410] interacts with 1 human partners:{P51610}

20692 Pathogen[ P14075] interacts with 1 human partners:{P51610}

20693 Pathogen[ POC206] interacts with 1 human partners:{P51610}

20694 Pathogen[ P03363] interacts with 1 human partners:{P51610}

20695 [Cluster 1882]GO:0010951+P biological\_process [name] negative regulation of endopeptidase activity [def] "Any process that decreases the frequency, rate or extent of endopeptidase activity, the endohydrolysis of peptide bonds within proteins." [GOC

20696 Pathogen[ Q2Q067] interacts with 9 human partners:{Q9Y5K5;P01009;Q92530;P08697;P50453;P48595;P20810;P50452;P35237}

20697 Pathogen[ POC214] interacts with 29 human partners:{P08697;P35237;Q9UK55;P01011;P29622;P36952;P48594;Q86WD7;P05121;P29508;P20810;Q9Y5K5;O75830;O75635;A8MV23;P05543;P05546;P07093;P01008;P30740;Q96P63;P50453;P05120;Q99574;Q9UIV8;Q96P15;P50452;Q92530;P48595}

20698 Pathogen[ P03346] interacts with 12 human partners:{P50452;P35237;O75635;P04080;P50453;Q96P63;P01009;Q96P15;P20810;Q92530;Q9Y5K5;P48595}

20699 Pathogen[ Q85601] interacts with 19 human partners:{P50452;P36952;Q96P15;P01011;P35237;P08697;P01009;Q9Y5K5;P05121;P50453;P05120;P01008;P48595;P30740;O75635;Q92530;P07093;P29508;Q96P63}

20700 Pathogen[ P14079] interacts with 10 human partners:{P35237;P50452;P04080;P51606;P20810;Q9Y5K5;P03973;Q92530;P50453;P48595}

20701 Pathogen[ P03383] interacts with 14 human partners:{P36952;P08697;P30740;P01009;P01008;P48595;P20810;Q9Y5K5;P50453;Q96P63;P35237;P50452;O75635;Q92530}

20702 Pathogen[ P03410] interacts with 17 human partners:{P05121;P51606;Q96P63;P50452;Q96P15;P08697;P36952;P50453;Q9Y5K5;P01009;P20810;Q99935;P35237;O75635;P30740;P48595;P01011}

20703 Pathogen[ P14075] interacts with 9 human partners:{P20810;P01009;P48595;Q92530;P08697;P50452;P50453;P35237;Q9Y5K5}

20704 Pathogen[ POC206] interacts with 17 human partners:{P50452;P01008;P35237;P01009;P50453;P36952;Q9Y5K5;Q96P15;O75635;P20810;P05121;P48595;Q96P63;Q92530;P01011;P30740;P08697}

20705 Pathogen[ P03363] interacts with 11 human partners:{P20810;Q9Y5K5;P35237;Q92530;P50452;P50453;P36952;Q96P63;O75635;Q96P15;P48595}

20706 [Cluster 1883]GO:0045444+P biological\_process [name] fat cell differentiation [def] "The process in which a relatively unspecialized cell acquires specialized features of an adipocyte, an animal connective tissue cell specialized for the synthesis and storage of fat." [CL

20707 Pathogen[ Q2Q067] interacts with 13 human partners:{P24385;Q8WTT2;Q02930;P17676;Q9Y3M2;P28062;P11161;Q14865;Q7Z2X4;P15336;P47928;Q3SYG4;P49715}

20708 Pathogen[ POC214] interacts with 13 human partners:{Q02930;P28062;Q14865;P15336;Q8WTT2;P24385;Q7Z2X4;P17676;P47928;Q9Y3M2;Q3SYG4;P11161;O15524}

20709 Pathogen[ P03346] interacts with 17 human partners: {O15524;P24385;P17676;P15336;Q9Y3M2;Q8WTT2;P28062;Q7Z2X4;P49715;Q8TAM2;Q3SYG4;Q12778;Q14865;Q92481;P11161;Q02930;P47928}

20710 Pathogen[ Q85601] interacts with 13 human partners: {P17676;P24385;Q9Y3M2;Q8WTT2;Q7Z2X4;Q02930;P28062;Q14865;Q3SYG4;P49715;P15336;P11161;P47928}

20711 Pathogen[ P14079] interacts with 17 human partners: {P31751;P20809;Q8WTT2;Q14865;Q8IWZ6;P28062;P11161;Q02930;P49715;Q8TAM2;P15336;Q8TCU4;Q9Y3M2;Q3SYG4;Q7Z2X4;P81277;P47928}

20712 Pathogen[ P03383] interacts with 10 human partners: {Q8WTT2;P24385;P17676;Q9Y3M2;Q3SYG4;P11161;P15336;P47928;P28062;Q02930}

20713 Pathogen[ P03410] interacts with 18 human partners: {Q8WTT2;P17676;Q3SYG4;Q9Y3M2;Q8TAM2;P20809;Q8TCU4;Q02930;P24385;Q7Z2X4;P28062;P47928;Q8IWZ6;P81277;Q14865;P15336;P11161;Q9BRK5}

20714 Pathogen[ P14075] interacts with 11 human partners: {Q3SYG4;Q8WTT2;P11161;P47928;P15336;P28062;P20809;P24385;Q9Y3M2;P17676;Q02930}

20715 Pathogen[ P0C206] interacts with 16 human partners: {P28062;Q7Z2X4;P11161;Q3SYG4;Q8TAM2;Q8TCU4;Q8WTT2;P15336;P49715;O15524;P17676;Q02930;P20809;Q14865;P47928;P24385}

20716 Pathogen[ P03363] interacts with 12 human partners: {Q8WTT2;Q14865;P17676;Q8TAM2;O15524;Q02930;Q9Y3M2;P15336;Q3SYG4;P47928;P24385;P11161}

20717 [Cluster 1884]GO:0070105+P biological\_process [name] positive regulation of interleukin-6-mediated signaling pathway [def] "Any process that increases the rate, frequency or extent of the series of molecular events generated as a consequence of interleukin-6 binding to a cell surface receptor." [GOC

20718 Pathogen[ Q2Q067] interacts with 1 human partners: {Q99684}

20719 Pathogen[ P0C214] interacts with 1 human partners: {Q99684}

20720 Pathogen[ P03346] interacts with 1 human partners: {Q99684}

20721 Pathogen[ Q85601] interacts with 1 human partners: {Q99684}

20722 Pathogen[ P14079] interacts with 1 human partners: {Q99684}

20723 Pathogen[ P03383] interacts with 1 human partners: {Q99684}

20724 Pathogen[ P03410] interacts with 1 human partners: {Q99684}

20725 Pathogen[ P14075] interacts with 1 human partners: {Q99684}

20726 Pathogen[ P0C206] interacts with 1 human partners: {Q99684}

20727 Pathogen[ P03363] interacts with 1 human partners: {Q99684}

20728 [Cluster 1885]GO:0033108+P biological\_process [name] mitochondrial respiratory chain complex assembly [def] "The aggregation, arrangement and bonding together of a set of components to form a mitochondrial respiratory chain complex." [GOC

20729 Pathogen[ Q2Q067] interacts with 1 human partners: {Q00059}

20730 Pathogen[ P0C214] interacts with 2 human partners: {Q5JTZ9;Q00059}

20731 Pathogen[ P03346] interacts with 1 human partners: {Q00059}

20732 Pathogen[ Q85601] interacts with 1 human partners: {Q00059}

20733 Pathogen[ P14079] interacts with 1 human partners: {Q00059}

20734 Pathogen[ P03383] interacts with 1 human partners: {Q00059}

20735 Pathogen[ P03410] interacts with 1 human partners: {Q00059}

20736 Pathogen[ P14075] interacts with 1 human partners: {Q00059}

20737 Pathogen[ P0C206] interacts with 1 human partners: {Q00059}

20738 Pathogen[ P03363] interacts with 1 human partners: {Q00059}

20739 [Cluster 1886]GO:0072331+P biological\_process [name] signal transduction by p53 class mediator [def] "An intracellular signaling process that is induced by the cell cycle regulator phosphoprotein p53 or an equivalent protein." [GOC

20740 Pathogen[ Q2Q067] interacts with 1 human partners: {P43356}

20741 Pathogen[ P0C214] interacts with 1 human partners: {P43356}

20742 Pathogen[ P03346] interacts with 1 human partners: {P43356}

20743 Pathogen[ Q85601] interacts with 1 human partners: {P43356}

20744 Pathogen[ P14079] interacts with 1 human partners: {P43356}

20745 Pathogen[ P03383] interacts with 1 human partners: {P43356}

20746 Pathogen[ P03410] interacts with 1 human partners: {P43356}

20747 Pathogen[ P14075] interacts with 1 human partners: {P43356}

20748 Pathogen[ P0C206] interacts with 1 human partners: {P43356}

20749 Pathogen[ P03363] interacts with 1 human partners: {P43356}

20750 [Cluster 1887]GO:0007162+P biological\_process [name] negative regulation of cell adhesion [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of cell adhesion." [GOC

20751 Pathogen[ Q2Q067] interacts with 1 human partners: {O60711}

20752 Pathogen[ P0C214] interacts with 3 human partners: {P52565;Q5SW24;O60711}

20753 Pathogen[ P03346] interacts with 5 human partners: {Q96FS4;P52565;Q5JRA6;Q9C0H9;O60711}

20754 Pathogen[ Q85601] interacts with 3 human partners: {P52565;O60711;Q5SW24}

20755 Pathogen[ P14079] interacts with 5 human partners: {P52565;Q5SW24;O60711;Q9C0H9;Q5JRA6}

20756 Pathogen[ P03383] interacts with 2 human partners: {O60711;Q9C0H9}

20757 Pathogen[ P03410] interacts with 5 human partners: {O60711;Q5SW24;Q9C0H9;P52565;Q5JRA6}

20758 Pathogen[ P14075] interacts with 2 human partners:{O60711;Q9C0H9}  
20759 Pathogen[ P0C206] interacts with 5 human  
partners:{P52565;Q5JRA6;Q5SW24;Q9C0H9;O60711}  
20760 Pathogen[ P03363] interacts with 4 human partners:{P52565;Q96FS4;O60711;Q9C0H9}  
20761 [Cluster 1888]GO:0050691+P biological\_process [name] regulation of defense response to  
virus by host [def] "Any host process that modulates the frequency, rate, or extent of  
the antiviral response of a host cell or organism." [GOC  
20762 Pathogen[ Q2Q067] interacts with 2 human partners:{Q7Z2W4;Q9NWF9}  
20763 Pathogen[ P0C214] interacts with 2 human partners:{Q7Z2W4;Q9NWF9}  
20764 Pathogen[ P03346] interacts with 2 human partners:{Q9NWF9;Q7Z2W4}  
20765 Pathogen[ Q85601] interacts with 2 human partners:{Q7Z2W4;Q9NWF9}  
20766 Pathogen[ P14079] interacts with 2 human partners:{Q7Z2W4;Q9NWF9}  
20767 Pathogen[ P03383] interacts with 2 human partners:{Q9NWF9;Q7Z2W4}  
20768 Pathogen[ P03410] interacts with 2 human partners:{Q9NWF9;Q7Z2W4}  
20769 Pathogen[ P14075] interacts with 2 human partners:{Q9NWF9;Q7Z2W4}  
20770 Pathogen[ P0C206] interacts with 2 human partners:{Q9NWF9;Q7Z2W4}  
20771 Pathogen[ P03363] interacts with 2 human partners:{Q9NWF9;Q7Z2W4}  
20772 [Cluster 1889]GO:0016188+P biological\_process [name] synaptic vesicle maturation  
[def] "Steps required to form an initiated synaptic vesicle into a fully formed and  
transmissible synaptic vesicle." [GOC  
20773 Pathogen[ Q2Q067] interacts with 2 human partners:{O95295;P78352}  
20774 Pathogen[ P0C214] interacts with 2 human partners:{O95295;P78352}  
20775 Pathogen[ P03346] interacts with 2 human partners:{O95295;P78352}  
20776 Pathogen[ Q85601] interacts with 2 human partners:{O95295;P78352}  
20777 Pathogen[ P14079] interacts with 1 human partners:{O95295}  
20778 Pathogen[ P03383] interacts with 2 human partners:{O95295;P78352}  
20779 Pathogen[ P03410] interacts with 2 human partners:{O95295;P78352}  
20780 Pathogen[ P14075] interacts with 2 human partners:{O95295;P78352}  
20781 Pathogen[ P0C206] interacts with 2 human partners:{P78352;O95295}  
20782 Pathogen[ P03363] interacts with 2 human partners:{P78352;O95295}  
20783 [Cluster 1890]GO:0007109+P biological\_process [name] cytokinesis, completion of  
separation [def] "The process of finishing cell separation, which results in two  
physically separated cells." [GOC  
20784 Pathogen[ Q2Q067] interacts with 1 human partners:{P50995}  
20785 Pathogen[ P0C214] interacts with 1 human partners:{P50995}  
20786 Pathogen[ P03346] interacts with 2 human partners:{P50995;Q9UBP0}  
20787 Pathogen[ Q85601] interacts with 2 human partners:{Q9UBP0;P50995}  
20788 Pathogen[ P14079] interacts with 1 human partners:{P50995}  
20789 Pathogen[ P03383] interacts with 1 human partners:{P50995}  
20790 Pathogen[ P03410] interacts with 1 human partners:{P50995}  
20791 Pathogen[ P14075] interacts with 1 human partners:{P50995}  
20792 Pathogen[ P0C206] interacts with 2 human partners:{Q9UBP0;P50995}  
20793 Pathogen[ P03363] interacts with 1 human partners:{P50995}  
20794 [Cluster 1891]GO:0030238+P biological\_process [name] male sex determination [def]  
"The specification of male sex of an individual organism." [GOC  
20795 Pathogen[ Q2Q067] interacts with 2 human partners:{Q05066;Q15637}  
20796 Pathogen[ P0C214] interacts with 1 human partners:{Q15637}  
20797 Pathogen[ P03346] interacts with 4 human partners:{Q05066;Q15637;P51843;Q9Y5R6}  
20798 Pathogen[ Q85601] interacts with 1 human partners:{Q15637}  
20799 Pathogen[ P14079] interacts with 1 human partners:{Q15637}  
20800 Pathogen[ P03383] interacts with 1 human partners:{Q15637}  
20801 Pathogen[ P03410] interacts with 1 human partners:{Q15637}  
20802 Pathogen[ P14075] interacts with 1 human partners:{Q15637}  
20803 Pathogen[ P0C206] interacts with 3 human partners:{Q9Y5R6;Q05066;Q15637}  
20804 Pathogen[ P03363] interacts with 3 human partners:{Q9Y5R6;Q05066;Q15637}  
20805 [Cluster 1892]GO:0021893+P biological\_process [name] cerebral cortex GABAergic  
interneuron fate commitment [def] "The process in which the developmental fate of a  
neuroblast becomes restricted such that it will develop into a GABAergic interneuron  
residing in the cerebral cortex." [GO\_REF  
20806 Pathogen[ Q2Q067] interacts with 1 human partners:{Q07687}  
20807 Pathogen[ P0C214] interacts with 1 human partners:{Q07687}  
20808 Pathogen[ P03346] interacts with 1 human partners:{P56177}  
20809 Pathogen[ Q85601] interacts with 1 human partners:{Q07687}  
20810 Pathogen[ P14079] interacts with 1 human partners:{Q07687}  
20811 Pathogen[ P03383] interacts with 1 human partners:{Q07687}  
20812 Pathogen[ P03410] interacts with 1 human partners:{Q07687}  
20813 Pathogen[ P14075] interacts with 1 human partners:{Q07687}  
20814 Pathogen[ P0C206] interacts with 2 human partners:{Q07687;P56177}  
20815 Pathogen[ P03363] interacts with 2 human partners:{P56177;Q07687}  
20816 [Cluster 1893]GO:0042770+P biological\_process [name] signal transduction in response  
to DNA damage [def] "A cascade of processes induced by the detection of DNA damage  
within a cell." [GOC  
20817 Pathogen[ Q2Q067] interacts with 4 human partners:{P24522;O96017;Q96MT8;Q14683}  
20818 Pathogen[ P0C214] interacts with 6 human  
partners:{P24522;P62993;Q96MT8;O96017;Q14683;Q9UHF9}  
20819 Pathogen[ P03346] interacts with 5 human



20820 partners:{O96017;P62993;Q14683;P24522;Q96MT8}  
Pathogen[ Q85601] interacts with 6 human

20821 partners:{P62993;O96017;Q9UJH9;P24522;Q14683;Q96MT8}  
Pathogen[ P14079] interacts with 4 human partners:{Q9UJH9;P24522;P62993;Q14683}

20822 Pathogen[ P03383] interacts with 4 human partners:{Q14683;P24522;Q96MT8;O96017}

20823 Pathogen[ P03410] interacts with 5 human  
partners:{P24522;Q9UJH9;Q14683;O96017;P62993}

20824 Pathogen[ P14075] interacts with 5 human  
partners:{Q96MT8;Q14683;O96017;Q9UJH9;P24522}

20825 Pathogen[ P0C206] interacts with 6 human  
partners:{P24522;O96017;Q9UJH9;P62993;Q14683;Q96MT8}

20826 Pathogen[ P03363] interacts with 4 human partners:{Q96MT8;O96017;P24522;Q14683}

20827 [Cluster 1894]GO:0090096+P biological\_process [name] positive regulation of  
metanephric cap mesenchymal cell proliferation [def] "Any process that increases the  
frequency, rate, or extent of metanephric cap mesenchymal cell proliferation.  
Metanephric cap mesenchymal cell proliferation is the multiplication or reproduction of  
metanephric cap mesenchymal cells, resulting in the expansion of the cell population. A  
metanephric cap mesenchymal cell is a mesenchymal cell that has condensed with other  
mesenchymal cells surrounding the ureteric bud tip." [GOC

20828 Pathogen[ Q2Q067] interacts with 1 human partners:{P01106}

20829 Pathogen[ P0C214] interacts with 1 human partners:{P01106}

20830 Pathogen[ P03346] interacts with 1 human partners:{P01106}

20831 Pathogen[ Q85601] interacts with 1 human partners:{P01106}

20832 Pathogen[ P14079] interacts with 1 human partners:{P01106}

20833 Pathogen[ P03383] interacts with 1 human partners:{P01106}

20834 Pathogen[ P03410] interacts with 1 human partners:{P01106}

20835 Pathogen[ P14075] interacts with 1 human partners:{P01106}

20836 Pathogen[ P0C206] interacts with 1 human partners:{P01106}

20837 Pathogen[ P03363] interacts with 1 human partners:{P01106}

20838 [Cluster 1895]GO:0045746+P biological\_process [name] negative regulation of Notch  
signaling pathway [def] "Any process that stops, prevents, or reduces the frequency,  
rate or extent of the Notch signaling pathway." [GOC

20839 Pathogen[ Q2Q067] interacts with 9 human  
partners:{Q9UI56;Q96K30;Q9BUX1;P23769;Q9NWT6;P25963;Q969H0;Q9Y5J3;P43355}

20840 Pathogen[ P0C214] interacts with 9 human  
partners:{P23769;Q9Y5J3;P43355;Q9BUX1;P25963;Q96K30;Q969H0;Q9UI56;Q9NWT6}

20841 Pathogen[ P03346] interacts with 9 human  
partners:{Q9BUX1;P43355;P25963;P23769;Q9Y5J3;Q96K30;Q9UI56;Q9NWT6;Q969H0}

20842 Pathogen[ Q85601] interacts with 8 human  
partners:{Q9BUX1;Q969H0;P23769;Q9NWT6;Q96K30;P43355;Q9Y5J3;P25963}

20843 Pathogen[ P14079] interacts with 8 human  
partners:{Q96K30;Q969H0;Q9UI56;Q9NWT6;Q9Y5J3;Q9BUX1;P43355;P23769}

20844 Pathogen[ P03383] interacts with 8 human  
partners:{Q9NWT6;Q9BUX1;P23769;Q96K30;P25963;Q969H0;Q9UI56;P43355}

20845 Pathogen[ P03410] interacts with 9 human  
partners:{Q9Y5J3;Q9UI56;Q9NWT6;Q96K30;Q9BUX1;P43355;Q969H0;P23769;P25963}

20846 Pathogen[ P14075] interacts with 8 human  
partners:{P43355;P23769;P25963;Q96K30;Q9NWT6;Q9BUX1;Q969H0;Q9UI56}

20847 Pathogen[ P0C206] interacts with 9 human  
partners:{Q9BUX1;P25963;Q96K30;Q969H0;P43355;Q9NWT6;Q9UI56;Q9Y5J3;P23769}

20848 Pathogen[ P03363] interacts with 7 human  
partners:{Q9Y5J3;P25963;Q9BUX1;Q96K30;Q969H0;Q9UI56;P43355}

20849 [Cluster 1896]GO:0009651+P biological\_process [name] response to salt stress [def]  
"Any process that results in a change in state or activity of a cell or an organism (in  
terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a  
stimulus indicating an increase or decrease in the concentration of salt (particularly  
but not exclusively sodium and chloride ions) in the environment." [GOC

20850 Pathogen[ Q2Q067] interacts with 2 human partners:{P08238;P20073}

20851 Pathogen[ P0C214] interacts with 1 human partners:{P20073}

20852 Pathogen[ P03346] interacts with 2 human partners:{P20073;P08238}

20853 Pathogen[ Q85601] interacts with 2 human partners:{P08238;P20073}

20854 Pathogen[ P14079] interacts with 2 human partners:{P08238;P20073}

20855 Pathogen[ P03383] interacts with 2 human partners:{P20073;P08238}

20856 Pathogen[ P03410] interacts with 2 human partners:{P08238;P20073}

20857 Pathogen[ P14075] interacts with 2 human partners:{P08238;P20073}

20858 Pathogen[ P0C206] interacts with 2 human partners:{P08238;P20073}

20859 Pathogen[ P03363] interacts with 2 human partners:{P20073;P08238}

20860 [Cluster 1897]GO:0006423+P biological\_process [name] cysteinyl-tRNA aminoacylation  
[def] "The process of coupling cysteine to cysteinyl-tRNA, catalyzed by cysteinyl-tRNA  
synthetase. In tRNA aminoacylation, the amino acid is first activated by linkage to AMP  
and then transferred to either the 2'- or the 3'-hydroxyl group of the 3'-adenosine  
residue of the tRNA." [GOC

20861 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9HA77;P49589}

20862 Pathogen[ P0C214] interacts with 2 human partners:{P49589;Q9HA77}

20863 Pathogen[ P03346] interacts with 1 human partners:{P49589}

20864 Pathogen[ Q85601] interacts with 2 human partners:{P49589;Q9HA77}

20865 Pathogen[ P14079] interacts with 2 human partners:{Q9HA77;P49589}  
20866 Pathogen[ P03383] interacts with 2 human partners:{P49589;Q9HA77}  
20867 Pathogen[ P03410] interacts with 2 human partners:{Q9HA77;P49589}  
20868 Pathogen[ P14075] interacts with 2 human partners:{Q9HA77;P49589}  
20869 Pathogen[ P0C206] interacts with 2 human partners:{P49589;Q9HA77}  
20870 Pathogen[ P03363] interacts with 1 human partners:{P49589}  
20871 [Cluster 1898]GO:0060322+P biological\_process [name] head development [def] "The biological process whose specific outcome is the progression of a head from an initial condition to its mature state. The head is the anterior-most division of the body." [GOC  
20872 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9BWW4;Q86U70}  
20873 Pathogen[ P0C214] interacts with 2 human partners:{Q9BWW4;Q86U70}  
20874 Pathogen[ P03346] interacts with 4 human partners:{Q86U70;Q68CZ1;Q9BWW4;P56178}  
20875 Pathogen[ Q85601] interacts with 2 human partners:{Q86U70;Q9BWW4}  
20876 Pathogen[ P14079] interacts with 3 human partners:{Q68CZ1;Q86U70;Q9BWW4}  
20877 Pathogen[ P03383] interacts with 2 human partners:{Q86U70;Q9BWW4}  
20878 Pathogen[ P03410] interacts with 3 human partners:{Q9BWW4;Q86U70;Q68CZ1}  
20879 Pathogen[ P14075] interacts with 2 human partners:{Q86U70;Q9BWW4}  
20880 Pathogen[ P0C206] interacts with 2 human partners:{Q9BWW4;Q86U70}  
20881 Pathogen[ P03363] interacts with 3 human partners:{P56179;Q86U70;Q9BWW4}  
20882 [Cluster 1899]GO:0048539+P biological\_process [name] bone marrow development [def] "The process whose specific outcome is the progression of the bone marrow over time, from its formation to the mature structure." [GOC  
20883 Pathogen[ Q2Q067] interacts with 2 human partners:{P17483;Q9Y3A5}  
20884 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y3A5}  
20885 Pathogen[ P03346] interacts with 2 human partners:{P17483;Q9Y3A5}  
20886 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y3A5}  
20887 Pathogen[ P14079] interacts with 1 human partners:{Q9Y3A5}  
20888 Pathogen[ P03383] interacts with 1 human partners:{Q9Y3A5}  
20889 Pathogen[ P03410] interacts with 1 human partners:{Q9Y3A5}  
20890 Pathogen[ P14075] interacts with 1 human partners:{Q9Y3A5}  
20891 Pathogen[ P0C206] interacts with 2 human partners:{P17483;Q9Y3A5}  
20892 Pathogen[ P03363] interacts with 2 human partners:{Q9Y3A5;P17483}  
20893 [Cluster 1900]GO:2000691+P biological\_process [name] negative regulation of cardiac muscle cell myoblast differentiation [def] "Any process that stops, prevents or reduces the frequency, rate or extent of cardiac muscle cell myoblast differentiation." [GOC  
20894 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96MT3}  
20895 Pathogen[ P0C214] interacts with 1 human partners:{Q96MT3}  
20896 Pathogen[ P03346] interacts with 1 human partners:{Q96MT3}  
20897 Pathogen[ Q85601] interacts with 1 human partners:{Q96MT3}  
20898 Pathogen[ P14079] interacts with 1 human partners:{Q96MT3}  
20899 Pathogen[ P03383] interacts with 1 human partners:{Q96MT3}  
20900 Pathogen[ P03410] interacts with 1 human partners:{Q96MT3}  
20901 Pathogen[ P14075] interacts with 1 human partners:{Q96MT3}  
20902 Pathogen[ P0C206] interacts with 1 human partners:{Q96MT3}  
20903 Pathogen[ P03363] interacts with 1 human partners:{Q96MT3}  
20904 [Cluster 1901]GO:0006367+P biological\_process [name] transcription initiation from RNA polymerase II promoter [def] "Any process involved in the assembly of the RNA polymerase II preinitiation complex (PIC) at an RNA polymerase II promoter region of a DNA template, resulting in the subsequent synthesis of RNA from that promoter. The initiation phase includes PIC assembly and the formation of the first few bonds in the RNA chain, including abortive initiation, which occurs when the first few nucleotides are repeatedly synthesized and then released. Promoter clearance, or release, is the transition between the initiation and elongation phases of transcription." [GOC  
20905 Pathogen[ Q2Q067] interacts with 131 human partners:{Q13573;Q9UNN4;P52434;Q92750;Q92585;Q8IZL2;Q9UPN9;Q9Y3C7;P10827;P15884;P20226;Q96HR3;Q9HAU4;Q16594;Q86WQ0;Q9NPF6;Q13889;P01106;P46937;Q95402;Q13485;P10589;P13056;P62508;P10828;Q15562;P19388;P52435;P49116;Q9H944;Q13547;Q9BTT4;Q93074;P32780;Q99594;P30876;P19387;O75586;Q15542;P61218;Q92759;O75448;O60244;P52657;Q6ZNA4;A6NLC8;P08047;P11473;O60563;P28702;Q15561;Q12962;P61077;Q9SULK4;P29084;Q96G25;P62487;Q14186;Q96F24;P51948;Q92831;P56270;P12755;P84022;Q6P1X5;O00716;P51668;P28347;O00255;O15105;Q06330;Q15543;Q9UHV7;Q9GZV5;P49848;P50750;Q15544;O00268;P09874;Q6P2C8;Q96PU5;Q16254;P50613;Q9NVC6;Q15329;Q9GZN2;Q16514;P13984;P55055;Q15796;P62875;P24928;Q15466;P28749;Q15583;Q93008;Q9Y2X0;P12757;P35813;P0CG47;P08235;Q14686;Q15545;P52655;Q9Y618;Q14209;P35269;P11474;O43513;P0CG48;P29083;P49336;O60583;P24863;Q92793;P21675;P53803;Q96RN5;P78347;P62987;Q14188;Q9Y2W1;Q71SY5;O75376;Q96JK9;P22736;Q13888;P42772;P51946;Q00403;P62979}  
20906 Pathogen[ P0C214] interacts with 125 human partners:{O00268;Q92585;P51946;P24863;Q16254;P35813;P56270;Q9HAU4;Q13573;P11474;Q71SY5;Q13547;P12757;P30876;O75586;P52657;Q8IZL2;P21675;P53803;Q96F24;P52655;P35269;P50750;P50613;Q9Y2X0;P29084;P15884;Q93074;P52435;P17275;Q92750;Q92793;P46937;P84022;Q9GZV5;Q00403;Q96HR3;Q9UNN4;Q9NVC6;Q12962;Q02386;P28347;P61218;Q06330;O00716;Q9BTT4;P05121;Q14686;Q15545;O60244;Q16594;Q15542;Q93008;P61077;Q9H944;Q15561;Q9Y3C7;P13056;P62487;Q96RN5;Q14186;P49116;P51948;P49336;P0CG48;O43513;A6NLC8;P78347;Q13485;O15105;O60583;Q15544;P49848;Q15329;O75376;Q15796;Q99594;Q6P1X5;Q96JK9;Q16514;P12755;P62875;P13984;P20226;Q6P2C8;Q6ZNA4;P32780;P24928;Q9UHV7;P62987;O60563;P28749;Q92831;O75448;P0CG

- 47;Q13888;P52434;Q5H9L4;P19387;P10828;P19388;Q15543;P51668;Q15562;Q96G25;Q9ULK4;P62979;Q9Y2W1;Q9Y618;P62508;Q9UPN9;Q14209;Q86WQ0;P01106;O95402;Q14188;Q9NPJ6;Q92759;P08047;O00255;P42772;P29083;Q15466;Q96PU5;P09874}
- 20907 Pathogen[ P03346] interacts with 144 human  
partners: {Q06330;Q9UPN9;Q92585;Q15542;Q15562;P46937;Q13263;Q02386;P10827;P35813;P11473;Q9HAU4;P52434;O95402;Q9NPJ6;Q96PU5;P56270;P06401;P12757;O75586;P08235;Q15329;Q93008;P28347;P62987;Q99594;Q71SY5;P48443;A6NLC8;Q14188;Q9GZV5;O60563;P17275;P78347;P49116;Q15466;P24863;P49336;Q96HR3;Q15583;Q13888;P42772;P0CG48;Q15796;Q93074;P53803;P13056;P61218;O00268;O60244;Q14209;P10588;Q86WQ0;Q9BTT4;Q92831;O15105;Q16254;P29084;P51668;Q92750;P61077;P08047;Q13889;P20226;Q96G25;Q15561;P62487;P01106;O75448;P51843;P19388;P28702;O60583;Q14186;P84022;O43513;Q96F24;P13984;P22736;Q9Y3C7;Q9GZN2;O00255;Q6P2C8;P52435;P49848;Q9UNN4;Q13547;P51946;P52657;P50750;Q6P1X5;P36954;Q16514;Q6ZNA4;O75376;Q12962;O95718;P09874;O75469;P62979;P28749;Q92759;Q9H944;P21675;P30876;P35269;Q9NVC6;P0CG47;P62508;P10828;Q99593;P11474;Q13485;P24928;Q5H9L4;P29083;Q9Y2X0;Q13573;Q00403;Q92793;O00482;Q15545;Q9ULK4;Q9Y618;Q9Y2W1;P35398;P52655;Q13285;P51948;Q15544;O00716;P32780;Q9UHV7;Q96RN5;P55055;P62875;P19387;Q96JK9;P15884;Q8IZL2;Q14686;Q16594;Q15543;P10589}
- 20908 Pathogen[ Q85601] interacts with 138 human  
partners: {Q9UNN4;P51946;P01106;P52657;Q9UPN9;Q9Y2X0;Q92585;Q15542;P36954;Q96JK9;P09874;P11473;Q9HAU4;O60563;Q15466;P56270;P50750;Q9ULK4;Q15329;Q02386;Q06330;Q13888;Q13573;Q9UHV7;P49336;Q5H9L4;P28702;O60583;P42772;P12757;Q15545;P53803;Q14188;Q96G25;P61218;Q9Y618;O00268;Q15583;Q96PU5;Q9GZV5;P0CG48;O75448;Q92831;Q9Y3C7;P51948;Q16594;P51668;P55055;Q93008;P61077;P12755;P08047;Q9H944;Q13263;P62487;Q86WQ0;Q14686;P19388;P29084;Q14186;Q96RN5;P13984;Q96F24;Q92759;O95402;P32780;P52435;P49848;A6NLC8;Q71SY5;Q15562;P35269;Q6P1X5;Q99594;P22736;Q8IZL2;P29083;Q16514;P28347;O00255;O75376;Q16254;P08235;Q00403;P05121;Q14209;P11474;P50613;P10827;P62979;P28749;O00482;P84022;P0CG47;Q6ZNA4;P62508;Q92750;P21675;P46937;Q6P2C8;Q12962;P19387;Q9GZN2;O15105;P52655;Q13547;Q9BTT4;P49116;P24928;P24863;P30876;P62987;P13056;P52434;Q15543;P10828;Q92793;O75586;P19447;P35813;P17275;Q9Y2W1;O60244;Q13485;Q96HR3;P78347;Q93074;Q15544;O00716;Q9NPJ6;Q9NVC6;O43513;Q15561;P62875;P15884;Q15796;P20226;P10589}
- 20909 Pathogen[ P14079] interacts with 129 human  
partners: {P62875;O60244;O95402;P13056;Q9Y2X0;O43513;P62508;P09874;P12755;P55055;Q15561;P0CG48;Q9GZV5;P28749;P19387;Q5H9L4;P35269;Q14186;P49336;P51946;Q16594;P35398;P62487;P11473;Q96JK9;Q16254;P10828;P08235;P52434;Q92793;Q86WQ0;Q15583;Q96HR3;O15514;Q15329;Q99594;P28347;P30876;P11474;Q96F24;P61218;Q6P2C8;Q9Y3C7;Q9ULK4;Q6ZNA4;Q9NVC6;Q14209;Q9GZN2;P22736;Q13573;Q8IZL2;Q13889;P53803;P62979;P46937;Q9HAU4;P48443;P61077;P10827;P29084;P62987;O95718;P35813;O75448;Q6P1X5;Q06330;P50613;Q13888;P19388;P51668;Q00403;O75586;Q15543;Q9UPN9;O00482;Q12962;O00716;Q9UHV7;Q96RN5;O75469;P24863;P49848;P52435;P17275;Q92750;P28702;Q9H944;Q92759;Q9UNN4;P56270;Q9NPJ6;P01106;P52657;P10588;P32780;Q71SY5;Q9BTT4;P13984;O75376;O60583;Q15562;P15884;P12757;Q02386;P24928;P10589;Q93008;P49116;Q15466;Q16514;O15105;P78347;P0CG47;P36954;Q96G25;Q92585;O00255;Q14188;Q14686;Q15542;Q9Y2W1;P19447;P29083;P21675;O00268;P50750;Q15545;A6NLC8;P51948}
- 20910 Pathogen[ P03383] interacts with 119 human  
partners: {Q9Y618;O95402;Q13573;Q06330;Q15329;P53803;Q92585;Q15561;Q92831;Q96JK9;Q13485;O00716;P08047;Q14209;P29084;Q15562;Q15544;P62987;P56270;P35269;P51948;Q9H944;O75376;Q9ULK4;Q96F24;P01106;P78347;Q9UPN9;Q13888;P49116;A6NLC8;O60244;Q8IZL2;Q5H9L4;Q14686;P52655;Q15542;Q96G25;Q6ZNA4;P52434;P61218;Q9NPJ6;P35813;Q93074;P61077;Q96HR3;Q00403;P20226;P52657;Q96RN5;O75448;P62487;Q86WQ0;P11473;O15105;P11474;P49336;Q16594;Q14186;Q6P2C8;P84022;P19387;O60563;P50613;P13984;P42772;Q9Y3C7;P28347;P51946;P24928;P09874;P49848;Q15466;Q16254;P28702;P50750;Q9UNN4;O00268;Q16514;O00255;Q6P1X5;Q92759;Q13547;P28749;Q71SY5;Q14188;P62979;Q92750;P0CG47;P62875;Q15796;Q99594;P21675;P52435;P12757;P0CG48;Q12962;Q9BTT4;P19388;Q9UHV7;P29083;P24863;P10828;Q9NVC6;P62508;P30876;O75586;Q15545;P17275;Q9Y2W1;P46937;P13056;Q9GZV5;O60583;Q9Y2X0;P32780;Q92793;P51668;Q15543}
- 20911 Pathogen[ P03410] interacts with 133 human  
partners: {P84022;Q99594;Q92831;O60583;Q9Y2W1;P52655;Q9UNN4;P05121;Q6ZNA4;P0CG48;P19387;P35813;Q13889;Q15329;P36954;O00268;Q15543;P42772;P12755;Q96G25;P01106;Q92750;Q06330;Q96F24;P24928;Q12962;P21675;P29083;Q14686;Q9NVC6;P15884;P51946;Q16254;Q9NPJ6;P30876;Q86WQ0;P20226;P10828;O75376;Q9Y3C7;P62979;P62508;P52657;Q14188;O15514;P50613;Q92585;Q9GZV5;P11473;P50750;O60563;O00716;Q8IZL2;Q15583;Q5H9L4;Q96JK9;Q92793;Q9ULK4;O95402;Q15561;P29084;O43513;Q02386;P52435;A6NLC8;Q16514;P28347;P17275;P49848;P53803;Q6P1X5;P19447;Q13485;P22736;Q14186;P62875;P28702;P09874;Q15466;Q00403;P12757;Q9BTT4;P51668;P46937;Q6P2C8;P35269;Q16594;P61218;P49336;Q96HR3;O15105;P51948;P24863;P28749;Q15544;Q13888;O60244;Q9UHV7;P11474;P52434;P62987;Q13547;P49116;P13984;P10589;P56270;Q15542;P62487;Q9GZN2;P08047;Q9Y2X0;P78347;Q93074;Q14209;Q14188;Q9Y618;O00255;Q15796;P08235;P19388;Q15562;P32780;O75448;Q96RN5;P0CG47;Q92759;Q15545;Q9UPN9;P61077;Q13573;O75586;P13056;Q71SY5}
- 20912 Pathogen[ P14075] interacts with 122 human  
partners: {P49336;A6NLC8;Q92585;Q9GZV5;Q12962;P35813;P13984;Q9NPJ6;Q92759;P24863;P21675;Q13573;P52657;Q15542;P11474;Q92831;P10828;Q15562;P28347;P30876;Q96HR3;Q14686;P17275;Q00403;O60563;P29083;P50613;Q15561;Q6P1X5;P29084;P19388;P61218;P50750;O60583;P78347;Q15544;O75448;P19387;O00716;P20226;Q15796;Q14209;Q13547;P61077;Q16594;P13056;P01106;Q92750;Q9Y618;O95402;O75376;O75586;Q9BTT4;P12757;P62487;Q13485;O00255;Q93074;Q14186;P49116;P0CG48;P62979;Q6ZNA4;Q9Y3C7;Q9UHV7;Q13889;Q16254;P49848;Q9H944;Q9UPN9;P24928;P35269;P11473;Q99594;O60244;P52655;Q16514;P62987;Q15545;Q96JK9;O15105;Q06330;Q5H9L4;P51946;P28749;P32780;Q9ULK4;O00268;Q9UNN4;Q6P2C8;P0CG47;P42772;Q92793;P28702;P158

84;Q9NVC6;P46937;Q96RN5;Q15466;Q96F24;P56270;Q15329;P84022;P62875;Q71SY5;Q8IZL2;Q96G25;Q9Y2W1;Q14188;P51668;O43513;P52434;Q86WQ0;P62508;P09874;Q9Y2X0;P51948;P52435;P53803;Q15543;Q13888;P08047}

20913 Pathogen[ POC206] interacts with 146 human partners: {Q02386;P46937;P84022;P10588;P24863;Q14188;Q96PU5;P0CG48;P62875;Q15329;P49336;Q15466;P35398;Q96HR3;Q15545;Q16514;P06401;Q06330;Q15543;P49848;Q9UPN9;P36954;Q13263;P50750;P20226;Q9HAU4;Q15544;P17275;P09874;Q93008;Q6ZNA4;P52657;O75469;Q96JK9;P52655;O00255;P19388;P61218;O00268;O75586;P55055;Q6P2C8;Q9Y3C7;Q13547;Q14186;P13056;P42772;Q9UNN4;O00716;P49116;P22736;P29084;Q9UHV7;Q15796;Q92831;O00482;Q16254;P28749;P13984;P12755;P19447;Q92793;P10589;Q9GZV5;O43513;Q9GZN2;O15105;O95718;P53803;Q14209;Q92750;P78347;Q15514;P35269;P10828;P62508;P19387;Q13888;Q96RN5;O95402;P50613;Q13573;P12757;Q8IZL2;P08047;P29083;Q9H944;Q9NPJ6;Q14686;P15884;Q96F24;P62979;P28347;Q92759;Q9Y2W1;Q5H9L4;Q15562;O75376;A6NLC8;Q13485;P52435;Q71SY5;Q86WQ0;Q9BTT4;P62487;P32780;P0CG47;Q15542;O60244;Q6P1X5;Q9ULK4;Q13889;P28702;P05121;Q9NVC6;O75448;P11474;Q12962;P01106;P24928;P61077;Q99594;P62987;O60583;Q9Y2X0;Q00403;O60563;Q96G25;Q93074;P51668;Q9Y618;P11473;P08235;P52434;Q15561;Q92585;P10827;P21675;P51946;P35813;Q15583;P51948;P48443;Q16594;P30876;P56270}

20914 Pathogen[ P03363] interacts with 122 human partners: {Q9UNN4;Q9GZN2;P10828;P29083;P29084;Q15466;P49848;P49116;P19388;Q02386;P13984;O60563;Q9HAU4;Q96HR3;Q71SY5;P24863;Q15562;P30876;Q92831;Q86WQ0;P12757;P62508;Q13888;Q06330;P32780;Q92759;P19387;P61218;Q16514;P28347;P51946;O75376;Q15545;Q16254;P11474;Q96JK9;P24928;Q9UPN9;O00268;O15105;Q14686;A6NLC8;P01106;P28749;P17275;Q6ZNA4;P52657;P10588;P35269;P11473;Q12962;Q00403;P46937;P28702;O60583;Q15544;P42772;P08235;Q96PU5;Q9GZV5;Q9NVC6;Q96RN5;Q9UHV7;O75586;Q15796;P84022;Q9Y618;P49336;Q15542;Q13573;Q15583;P62987;P35398;Q14209;Q13547;Q92750;Q93074;Q92793;O75448;P62487;P51668;P21675;P56270;P20226;Q96F24;P52655;Q13485;Q9BTT4;O95402;P50750;Q14186;Q14188;Q9NPJ6;P15884;O60244;P61077;P09874;Q9ULK4;P08047;O00716;Q15543;P53803;P52435;P52434;Q6P2C8;O43513;Q15561;Q96G25;Q5H9L4;P10589;Q6P1X5;P13056;Q99594;Q93008;Q15329;P78347;Q8IZL2;Q9H944;Q92585;Q16594;O00482;Q9Y3C7}

20915 [Cluster 1902]GO:0034259+P biological\_process [name] negative regulation of Rho GTPase activity [def] "Any process that stops or reduces the rate of activity of a GTPase of the Rho family." [GOC]

20916 Pathogen[ Q2Q067] interacts with 1 human partners: {Q9Y6D6}

20917 Pathogen[ POC214] interacts with 1 human partners: {Q9Y6D6}

20918 Pathogen[ P03346] interacts with 1 human partners: {Q9Y6D6}

20919 Pathogen[ Q85601] interacts with 1 human partners: {Q9Y6D6}

20920 Pathogen[ P14079] interacts with 1 human partners: {Q9Y6D6}

20921 Pathogen[ P03383] interacts with 1 human partners: {Q9Y6D6}

20922 Pathogen[ P03410] interacts with 1 human partners: {Q9Y6D6}

20923 Pathogen[ P14075] interacts with 1 human partners: {Q9Y6D6}

20924 Pathogen[ POC206] interacts with 1 human partners: {Q9Y6D6}

20925 Pathogen[ P03363] interacts with 1 human partners: {Q9Y6D6}

20926 [Cluster 1903]GO:0042590+P biological\_process [name] antigen processing and presentation of exogenous peptide antigen via MHC class I [def] "The process in which an antigen-presenting cell expresses a peptide antigen of exogenous origin on its cell surface in association with an MHC class I protein complex. The peptide antigen is typically, but not always, processed from a whole protein. Class I here refers to classical class I molecules." [GOC]

20927 Pathogen[ Q2Q067] interacts with 41 human partners: {Q99460;O75832;P48556;P40306;P55036;O00231;O00233;P51665;P28072;A5LHX3;Q13200;P25787;Q06323;P28065;O14818;P27797;Q14997;P60900;Q9UL46;P61289;P28062;Q9UNM6;P25788;Q92530;P25786;Q16401;O00232;P28074;P25789;P0CG47;P20618;P0CG48;P28070;P28066;Q99436;Q8TAA3;P62987;O43242;P49721;P49720;P62979}

20928 Pathogen[ POC214] interacts with 43 human partners: {Q14997;P51665;P25789;P55036;P28062;A5LHX3;P28065;O14818;O43242;P48556;P40306;Q13200;O00232;Q99460;P28066;O75832;P49720;P28074;P0CG48;Q9UL46;P25788;Q9UNM6;O00231;Q06323;P25786;P28072;Q8TAA3;P62987;Q99436;P27797;P0CG47;P25787;P35998;P60900;O00233;P62979;Q92530;Q15008;P28070;P20618;P49721;Q16401;P17980}

20929 Pathogen[ P03346] interacts with 41 human partners: {P25787;P28070;P25789;P55036;Q99460;Q9UL46;P62987;P28072;P25788;P28074;P49721;O14818;Q99436;P0CG48;Q16401;A5LHX3;P28062;P20618;O00232;O75832;O00233;P49720;P28065;P60900;P25786;O00231;P61289;P62979;P27797;P28066;Q9UNM6;Q8TAA3;P0CG47;Q14997;Q13200;P48556;P51665;Q06323;Q92530;O43242;P40306}

20930 Pathogen[ Q85601] interacts with 37 human partners: {P28066;Q9UNM6;P60900;P55036;P25787;P61289;P25788;O75832;P27797;P0CG48;P25789;O00233;P20618;P40306;P49720;P28062;P49721;P25786;P28072;Q13200;P28065;P62979;Q99436;P28070;Q8TAA3;Q9UL46;Q99460;O00231;P0CG47;P48556;P28074;Q92530;P62987;A5LHX3;Q06323;O14818;Q16401}

20931 Pathogen[ P14079] interacts with 46 human partners: {P28065;Q99436;P62333;P48556;P60468;P0CG48;P40306;P13498;P55036;P28074;O00232;P49720;O00487;P25787;O75832;A5LHX3;P62979;O00233;P35998;P61289;P62987;P51665;P20618;Q8TAA3;Q14997;P28062;P60900;Q9UNM6;Q99460;O14818;P49721;P60059;Q92530;Q06323;P62191;Q15008;P43686;O43242;P25788;O00231;P28066;Q9UL46;P0CG47;Q16401;P17980;P28072}

20932 Pathogen[ P03383] interacts with 37 human partners: {P55036;P62987;P25789;P60900;P40306;O00233;P49721;Q06323;Q14997;P20618;O75832;Q9UL46;Q9UNM6;P25786;Q99460;P28072;Q13200;P28065;P28066;Q16401;P62979;O00231;P0CG

47;P0CG48;P28074;Q92530;P49720;Q8TAA3;P61289;P28062;P48556;O14818;Q99436;P28070;P25787;P27797;P25788}

20933 Pathogen[ P03410] interacts with 45 human partners: {P28070;P55036;P0CG48;P60468;P25786;P60059;Q15008;Q16401;P60900;Q14997;P35998;Q99460;O00233;O00232;Q8TAA3;P48556;P49721;A5LHX3;P62979;Q99436;P40306;Q06323;Q13200;P25787;P28062;P51665;O14818;O00231;Q9UNM6;P25789;P49720;P62987;P28072;P25788;P28066;P28065;O43242;P0CG47;P17980;O75832;P20618;Q9UL46;P28074;P61289;P27797}

20934 Pathogen[ P14075] interacts with 36 human partners: {P55036;P25788;P28066;Q06323;O75832;Q8TAA3;P60900;O00233;Q9UL46;P49720;Q13200;P48556;Q16401;P28070;P49721;O00231;Q92530;P0CG48;P62979;P28062;P28074;P28065;P27797;P25786;O14818;P62987;P28072;Q14997;P0CG47;P25787;P20618;Q9UNM6;P61289;P40306;Q99436;P25789}

20935 Pathogen[ P0C206] interacts with 40 human partners: {P61289;Q99436;P28062;Q9UNM6;P0CG48;O75832;P27797;P40306;P28065;Q14997;P55036;P25786;P25788;P25787;Q06323;P49720;O00232;P60900;O43242;A5LHX3;P25789;P20618;Q13200;Q8TAA3;P28070;Q99460;P62979;P28066;O14818;P0CG47;P28072;P28074;Q92530;P49721;P62987;Q9UL46;O00233;P48556;Q16401;O00231}

20936 Pathogen[ P03363] interacts with 4 human partners: {Q92530;P61289;P27797;P62987}

20937 [Cluster 1904]GO:2000036+P biological\_process [name] regulation of stem cell maintenance [def] "Any process that modulates the frequency, rate or extent of stem cell maintenance." [GOC

20938 Pathogen[ Q2Q067] interacts with 1 human partners: {Q9H4B6}

20939 Pathogen[ P0C214] interacts with 1 human partners: {Q9H4B6}

20940 Pathogen[ P03346] interacts with 3 human partners: {P17542;Q9HCS4;Q9H4B6}

20941 Pathogen[ Q85601] interacts with 2 human partners: {Q9HCS4;Q9H4B6}

20942 Pathogen[ P14079] interacts with 1 human partners: {Q9H4B6}

20943 Pathogen[ P03383] interacts with 1 human partners: {Q9H4B6}

20944 Pathogen[ P03410] interacts with 2 human partners: {Q9HCS4;Q9H4B6}

20945 Pathogen[ P14075] interacts with 1 human partners: {Q9H4B6}

20946 Pathogen[ P0C206] interacts with 2 human partners: {Q9HCS4;Q9H4B6}

20947 Pathogen[ P03363] interacts with 2 human partners: {Q9HCS4;Q9H4B6}

20948 [Cluster 1905]GO:0030916+P biological\_process [name] otic vesicle formation [def] "The process resulting in the transition of the otic placode into the otic vesicle, a transient embryonic structure formed during development of the vertebrate inner ear." [GOC

20949 Pathogen[ Q2Q067] interacts with 1 human partners: {O15078}

20950 Pathogen[ P0C214] interacts with 1 human partners: {O15078}

20951 Pathogen[ P03346] interacts with 2 human partners: {Q9UBX0;O15078}

20952 Pathogen[ Q85601] interacts with 2 human partners: {O15078;Q9UBX0}

20953 Pathogen[ P14079] interacts with 2 human partners: {O15078;O15273}

20954 Pathogen[ P03383] interacts with 1 human partners: {O15078}

20955 Pathogen[ P03410] interacts with 2 human partners: {O15273;O15078}

20956 Pathogen[ P14075] interacts with 1 human partners: {O15078}

20957 Pathogen[ P0C206] interacts with 2 human partners: {O15078;Q9UBX0}

20958 Pathogen[ P03363] interacts with 2 human partners: {O15078;Q9UBX0}

20959 [Cluster 1906]GO:0086005+P

20960 Pathogen[ Q2Q067] interacts with 1 human partners: {P15924}

20961 Pathogen[ P0C214] interacts with 1 human partners: {P15924}

20962 Pathogen[ P03346] interacts with 1 human partners: {P15924}

20963 Pathogen[ Q85601] interacts with 1 human partners: {P15924}

20964 Pathogen[ P14079] interacts with 1 human partners: {P15924}

20965 Pathogen[ P03383] interacts with 1 human partners: {P15924}

20966 Pathogen[ P03410] interacts with 1 human partners: {P15924}

20967 Pathogen[ P14075] interacts with 1 human partners: {P15924}

20968 Pathogen[ P0C206] interacts with 1 human partners: {P15924}

20969 Pathogen[ P03363] interacts with 1 human partners: {P15924}

20970 [Cluster 1907]GO:0006449+P biological\_process [name] regulation of translational termination [def] "Any process that modulates the frequency, rate or extent of translational termination." [GOC

20971 Pathogen[ Q2Q067] interacts with 4 human partners: {Q92900;O75570;P52758;P62495}

20972 Pathogen[ P0C214] interacts with 4 human partners: {Q92900;O75570;P62495;P52758}

20973 Pathogen[ P03346] interacts with 4 human partners: {P52758;P62495;O75570;Q92900}

20974 Pathogen[ Q85601] interacts with 4 human partners: {P62495;P52758;O75570;Q92900}

20975 Pathogen[ P14079] interacts with 4 human partners: {P52758;P62495;O75570;Q92900}

20976 Pathogen[ P03383] interacts with 4 human partners: {P52758;O75570;P62495;Q92900}

20977 Pathogen[ P03410] interacts with 4 human partners: {Q92900;P62495;P52758;O75570}

20978 Pathogen[ P14075] interacts with 4 human partners: {P62495;Q92900;P52758;O75570}

20979 Pathogen[ P0C206] interacts with 4 human partners: {P62495;Q92900;O75570;P52758}

20980 Pathogen[ P03363] interacts with 4 human partners: {P52758;O75570;Q92900;P62495}

20981 [Cluster 1908]GO:0006266+P biological\_process [name] DNA ligation [def] "The re-formation of a broken phosphodiester bond in the DNA backbone, carried out by DNA ligase." [ISBN

20982 Pathogen[ Q2Q067] interacts with 5 human partners: {Q7Z2E3;P11388;Q13426;P12956;P16455}

20983 Pathogen[ P0C214] interacts with 5 human partners: {Q13426;Q7Z2E3;P11388;P16455;P12956}

20984 Pathogen[ P03346] interacts with 4 human partners:{P12956;P11388;Q13426;Q7Z2E3}  
20985 Pathogen[ Q85601] interacts with 5 human  
partners:{P16455;Q13426;P11388;Q7Z2E3;P12956}  
20986 Pathogen[ P14079] interacts with 6 human  
partners:{P11388;P16455;P12956;Q7Z2E3;Q13426;P49917}  
20987 Pathogen[ P03383] interacts with 3 human partners:{Q7Z2E3;Q13426;P12956}  
20988 Pathogen[ P03410] interacts with 5 human  
partners:{Q7Z2E3;P12956;P16455;Q13426;P11388}  
20989 Pathogen[ P14075] interacts with 3 human partners:{Q7Z2E3;P12956;Q13426}  
20990 Pathogen[ P0C206] interacts with 6 human  
partners:{P49917;Q13426;P11388;P12956;P16455;Q7Z2E3}  
20991 Pathogen[ P03363] interacts with 3 human partners:{P12956;Q13426;Q7Z2E3}  
20992 [Cluster 1909]GO:0002326+P biological\_process [name] B cell lineage commitment  
[def] "The process in which a lymphoid progenitor cell becomes committed to become any  
type of B cell." [GOC  
20993 Pathogen[ Q2Q067] interacts with 2 human partners:{P55895;P15923}  
20994 Pathogen[ P0C214] interacts with 2 human partners:{P55895;P15923}  
20995 Pathogen[ P03346] interacts with 2 human partners:{P55895;P15923}  
20996 Pathogen[ Q85601] interacts with 2 human partners:{P15923;P55895}  
20997 Pathogen[ P14079] interacts with 1 human partners:{P15923}  
20998 Pathogen[ P03383] interacts with 2 human partners:{P15923;P55895}  
20999 Pathogen[ P03410] interacts with 2 human partners:{P55895;P15923}  
21000 Pathogen[ P14075] interacts with 2 human partners:{P15923;P55895}  
21001 Pathogen[ P0C206] interacts with 2 human partners:{P15923;P55895}  
21002 Pathogen[ P03363] interacts with 2 human partners:{P15923;P55895}  
21003 [Cluster 1910]GO:0050927+P biological\_process [name] positive regulation of positive  
chemotaxis [def] "Any process that activates or increases the frequency, rate or extent  
of the directed movement of a motile cell or organism towards a higher concentration in  
a concentration gradient of a specific chemical." [GOC  
21004 Pathogen[ Q2Q067] interacts with 1 human partners:{P84022}  
21005 Pathogen[ P0C214] interacts with 1 human partners:{P84022}  
21006 Pathogen[ P03346] interacts with 1 human partners:{P84022}  
21007 Pathogen[ Q85601] interacts with 1 human partners:{P84022}  
21008 Pathogen[ P14079] interacts with 1 human partners:{P31751}  
21009 Pathogen[ P03383] interacts with 1 human partners:{P84022}  
21010 Pathogen[ P03410] interacts with 1 human partners:{P84022}  
21011 Pathogen[ P14075] interacts with 1 human partners:{P84022}  
21012 Pathogen[ P0C206] interacts with 1 human partners:{P84022}  
21013 Pathogen[ P03363] interacts with 1 human partners:{P84022}  
21014 [Cluster 1911]GO:0030879+P biological\_process [name] mammary gland development  
[def] "The process whose specific outcome is the progression of the mammary gland over  
time, from its formation to the mature structure. The mammary gland is a large compound  
sebaceous gland that in female mammals is modified to secrete milk. Its development  
starts with the formation of the mammary line and ends as the mature gland cycles  
between nursing and weaning stages." [PMID  
21015 Pathogen[ Q2Q067] interacts with 3 human partners:{P22392;P28356;P17482}  
21016 Pathogen[ P0C214] interacts with 3 human partners:{P17482;P22392;P16220}  
21017 Pathogen[ P03346] interacts with 6 human  
partners:{P16220;P06401;P51587;P28356;P22392;P17482}  
21018 Pathogen[ Q85601] interacts with 4 human partners:{P16220;P22392;P51587;P17482}  
21019 Pathogen[ P14079] interacts with 2 human partners:{P51587;P22392}  
21020 Pathogen[ P03383] interacts with 3 human partners:{P16220;P17482;P22392}  
21021 Pathogen[ P03410] interacts with 3 human partners:{P17482;P51587;P16220}  
21022 Pathogen[ P14075] interacts with 3 human partners:{P17482;P16220;P22392}  
21023 Pathogen[ P0C206] interacts with 6 human  
partners:{P06401;P16220;P22392;P51587;P17482;P28356}  
21024 Pathogen[ P03363] interacts with 3 human partners:{P28356;P16220;P17482}  
21025 [Cluster 1912]GO:0007340+P biological\_process [name] acrosome reaction [def] "The  
discharge, by sperm, of a single, anterior secretory granule following the sperm's  
attachment to the zona pellucida surrounding the oocyte. The process begins with the  
fusion of the outer acrosomal membrane with the sperm plasma membrane and ends with the  
exocytosis of the acrosomal contents into the egg." [GOC  
21026 Pathogen[ Q2Q067] interacts with 1 human partners:{075969}  
21027 Pathogen[ P0C214] interacts with 1 human partners:{075969}  
21028 Pathogen[ P03346] interacts with 1 human partners:{075969}  
21029 Pathogen[ Q85601] interacts with 1 human partners:{075969}  
21030 Pathogen[ P14079] interacts with 3 human partners:{Q6UW49;Q9BZX4;075969}  
21031 Pathogen[ P03383] interacts with 1 human partners:{075969}  
21032 Pathogen[ P03410] interacts with 3 human partners:{075969;Q6UW49;Q9BZX4}  
21033 Pathogen[ P14075] interacts with 1 human partners:{075969}  
21034 Pathogen[ P0C206] interacts with 1 human partners:{075969}  
21035 Pathogen[ P03363] interacts with 1 human partners:{075969}  
21036 [Cluster 1913]GO:0031581+P biological\_process [name] hemidesmosome assembly [def]  
"Assembly of hemidesmosomes, integrin-containing protein complexes that bind to laminin  
in the basal lamina. Hemidesmosomes form the contact between the basal surface of  
epithelial cells and the underlying basal lamina." [GOC

21037 Pathogen[ Q2Q067] interacts with 2 human partners:{P13647;P02533}  
21038 Pathogen[ POC214] interacts with 2 human partners:{P02533;P13647}  
21039 Pathogen[ P03346] interacts with 3 human partners:{Q15149;P02533;P13647}  
21040 Pathogen[ Q85601] interacts with 2 human partners:{P02533;P13647}  
21041 Pathogen[ P14079] interacts with 3 human partners:{P02533;Q15149;P13647}  
21042 Pathogen[ P03383] interacts with 2 human partners:{P02533;P13647}  
21043 Pathogen[ P03410] interacts with 3 human partners:{P02533;Q15149;P13647}  
21044 Pathogen[ P14075] interacts with 2 human partners:{P13647;P02533}  
21045 Pathogen[ POC206] interacts with 2 human partners:{P13647;P02533}  
21046 Pathogen[ P03363] interacts with 3 human partners:{P02533;P13647;Q15149}  
21047 [Cluster 1914]GO:2000378+P biological\_process [name] negative regulation of reactive oxygen species metabolic process [def] "Any process that stops, prevents or reduces the frequency, rate or extent of reactive oxygen species metabolic process." [GOC  
21048 Pathogen[ Q2Q067] interacts with 3 human partners:{P04198;Q9NY61;P02511}  
21049 Pathogen[ POC214] interacts with 3 human partners:{P02511;Q9NY61;P04198}  
21050 Pathogen[ P03346] interacts with 4 human partners:{Q13489;P02511;Q9NY61;P04198}  
21051 Pathogen[ Q85601] interacts with 3 human partners:{Q9NY61;P02511;P04198}  
21052 Pathogen[ P14079] interacts with 3 human partners:{Q9NY61;P02511;P04198}  
21053 Pathogen[ P03383] interacts with 3 human partners:{Q9NY61;P02511;P04198}  
21054 Pathogen[ P03410] interacts with 3 human partners:{Q9NY61;P02511;P04198}  
21055 Pathogen[ P14075] interacts with 3 human partners:{Q9NY61;P04198;P02511}  
21056 Pathogen[ POC206] interacts with 4 human partners:{P04198;Q13489;P02511;Q9NY61}  
21057 Pathogen[ P03363] interacts with 3 human partners:{P04198;Q9NY61;Q13489}  
21058 [Cluster 1915]GO:0001707+P biological\_process [name] mesoderm formation [def] "The process that gives rise to the mesoderm. This process pertains to the initial formation of the structure from unspecified parts." [GOC  
21059 Pathogen[ Q2Q067] interacts with 5 human partners:{O96004;P11831;P84022;Q15796;O00321}  
21060 Pathogen[ POC214] interacts with 6 human partners:{O00321;P84022;P11831;Q16881;Q15796;O96004}  
21061 Pathogen[ P03346] interacts with 7 human partners:{P11831;Q15796;O00321;O96004;P84022;O95863;O43763}  
21062 Pathogen[ Q85601] interacts with 5 human partners:{P11831;O96004;P84022;Q15796;O00321}  
21063 Pathogen[ P14079] interacts with 2 human partners:{O00321;O96004}  
21064 Pathogen[ P03383] interacts with 5 human partners:{P11831;O00321;O96004;P84022;Q15796}  
21065 Pathogen[ P03410] interacts with 5 human partners:{P84022;P11831;O96004;O00321;Q15796}  
21066 Pathogen[ P14075] interacts with 5 human partners:{P11831;Q15796;O96004;P84022;O00321}  
21067 Pathogen[ POC206] interacts with 6 human partners:{P84022;O00321;Q15796;O96004;P11831;O43763}  
21068 Pathogen[ P03363] interacts with 6 human partners:{O43763;O00321;P11831;Q15796;P84022;O96004}  
21069 [Cluster 1916]GO:0030307+P biological\_process [name] positive regulation of cell growth [def] "Any process that activates or increases the frequency, rate, extent or direction of cell growth." [GOC  
21070 Pathogen[ Q2Q067] interacts with 16 human partners:{O75832;P31749;Q16594;O95684;Q06265;Q9Y5N5;Q13868;Q9NPD3;Q04695;Q6IQ32;O43598;Q9UID6;Q9HBM6;Q9ULG1;P02489;Q76FK4}  
21071 Pathogen[ POC214] interacts with 17 human partners:{Q6IQ32;Q9UID6;O95684;P02489;Q9ULG1;Q16594;O75832;Q9NPD3;Q04695;Q9HBM6;Q9Y5N5;Q76FK4;O43598;Q13868;Q06265;P31749;P18054}  
21072 Pathogen[ P03346] interacts with 19 human partners:{O95684;O43598;P02489;Q9Y5N5;Q9ULG1;P18054;O75832;Q04695;P31749;Q9HBM6;Q6IQ32;Q06265;Q9UID6;Q8WVI7;Q9NPD3;P58546;Q13868;Q76FK4;Q16594}  
21073 Pathogen[ Q85601] interacts with 16 human partners:{P02489;O43598;Q9NPD3;P31749;O95684;O75832;Q13868;Q9Y5N5;Q16594;Q9UID6;Q9HBM6;Q6IQ32;Q04695;Q76FK4;Q9ULG1;Q06265}  
21074 Pathogen[ P14079] interacts with 17 human partners:{Q9ULG1;O95684;Q16594;Q9Y5N5;P13498;Q8WVI7;O43598;Q9UID6;Q13868;O75832;Q9NPD3;Q9GZP9;P02489;Q04695;Q6IQ32;Q06265;Q9HBM6}  
21075 Pathogen[ P03383] interacts with 13 human partners:{Q06265;O95684;P31749;Q9HBM6;O43598;Q6IQ32;O75832;Q16594;Q04695;Q9UID6;Q9NPD3;Q9Y5N5;Q13868}  
21076 Pathogen[ P03410] interacts with 18 human partners:{O95684;Q8WVI7;Q06265;Q76FK4;Q9ULG1;Q13868;P31749;Q9GZP9;Q6IQ32;Q9HBM6;P02489;Q16594;Q04695;Q9NPD3;Q9UID6;Q9Y5N5;O43598;O75832}  
21077 Pathogen[ P14075] interacts with 13 human partners:{O95684;O75832;Q9NPD3;O43598;Q9UID6;Q16594;Q13868;P31749;Q04695;Q9Y5N5;Q6IQ32;Q06265;Q9HBM6}  
21078 Pathogen[ POC206] interacts with 18 human partners:{Q9UID6;O43598;O75832;P31749;O95684;Q8WVI7;Q9NPD3;Q13868;Q06265;Q9ULG1;Q6IQ32;Q76FK4;Q9GZP9;Q9Y5N5;Q9HBM6;P02489;Q04695;Q16594}  
21079 Pathogen[ P03363] interacts with 14 human

partners:{Q9ULG1;O95684;Q9NPD3;P31749;Q13868;Q9Y5N5;Q9HBM6;Q6IQ32;P02489;Q9UID6;O43598;Q76FK4;Q04695;Q16594}

21080 [Cluster 1917]GO:0001822+P biological\_process [name] kidney development [def] "The process whose specific outcome is the progression of the kidney over time, from its formation to the mature structure. The kidney is an organ that filters the blood and/or excretes the end products of body metabolism in the form of urine." [GOC

21081 Pathogen[ Q2Q067] interacts with 9 human

partners:{Q13485;P35680;O15350;Q9Y3Y4;Q7LG56;Q14865;O60765;Q9NSC2;Q15797}

21082 Pathogen[ P0C214] interacts with 11 human

partners:{O95633;Q14865;P46379;O15350;Q8WV60;O60765;Q13485;Q9NSC2;Q15797;Q9Y3Y4;Q7LG56}

21083 Pathogen[ P03346] interacts with 21 human

partners:{Q9NPC8;Q9Y283;O60765;Q15797;Q9Y3Y4;Q68CZ1;Q9NSC2;P20264;O15350;O43680;Q06710;Q7LG56;P46379;P35680;Q15475;Q14865;Q92481;P36405;Q13485;O95633;Q9UJU5}

21084 Pathogen[ Q85601] interacts with 13 human

partners:{P36405;Q15797;Q9Y283;Q8WV60;P46379;Q7LG56;O60765;P35680;Q14865;O15350;Q9NSC2;Q13485;Q9Y3Y4}

21085 Pathogen[ P14079] interacts with 14 human

partners:{Q8NBQ7;P35680;Q68CZ1;Q14865;Q15797;O15350;Q6N021;Q7LG56;P36405;Q8WV60;Q9Y3Y4;Q9Y283;O60765;Q9NSC2}

21086 Pathogen[ P03383] interacts with 6 human

partners:{Q13485;O60765;Q15797;Q9NSC2;O15350;Q9Y3Y4}

21087 Pathogen[ P03410] interacts with 14 human

partners:{Q8WV60;P36405;Q6N021;Q9Y283;Q15797;Q13485;P35680;O15350;Q9Y3Y4;O60765;Q9NSC2;Q68CZ1;Q14865;Q7LG56}

21088 Pathogen[ P14075] interacts with 5 human

partners:{Q9NSC2;O60765;Q9Y3Y4;Q13485;O15350}

21089 Pathogen[ P0C206] interacts with 14 human

partners:{Q8WV60;O95633;Q9NSC2;Q9Y3Y4;O60765;Q7LG56;Q9Y283;P35680;Q13485;P36405;Q15797;O15350;Q14865;P46379}

21090 Pathogen[ P03363] interacts with 10 human

partners:{P46379;Q14865;O60765;Q15797;Q9Y3Y4;P20264;Q9Y283;Q13485;Q9UJU5;Q9NPC8}

21091 [Cluster 1918]GO:0033128+P biological\_process [name] negative regulation of histone phosphorylation [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the addition of one or more phosphate groups to a histone protein." [GOC

21092 Pathogen[ Q2Q067] interacts with 1 human partners:{P63146}

21093 Pathogen[ P0C214] interacts with 1 human partners:{P63146}

21094 Pathogen[ P03346] interacts with 1 human partners:{P63146}

21095 Pathogen[ Q85601] interacts with 1 human partners:{P63146}

21096 Pathogen[ P14079] interacts with 1 human partners:{P63146}

21097 Pathogen[ P03383] interacts with 1 human partners:{P63146}

21098 Pathogen[ P03410] interacts with 1 human partners:{P63146}

21099 Pathogen[ P14075] interacts with 1 human partners:{P63146}

21100 Pathogen[ P0C206] interacts with 1 human partners:{P63146}

21101 Pathogen[ P03363] interacts with 1 human partners:{P63146}

21102 [Cluster 1919]GO:0000902+P biological\_process [name] cell morphogenesis [def] "The developmental process in which the size or shape of a cell is generated and organized." [GOC

21103 Pathogen[ Q2Q067] interacts with 10 human

partners:{P40306;P35712;P41182;Q9NZI6;P11473;Q15532;P40337;Q13618;Q9HBD4;P61586}

21104 Pathogen[ P0C214] interacts with 9 human

partners:{Q9HBD4;P61586;Q13618;P40306;P40337;P41182;Q15532;Q9NZI6;P35712}

21105 Pathogen[ P03346] interacts with 15 human

partners:{P11473;Q9HBD4;Q9Y5W3;Q9NZI6;Q13618;P16452;Q15532;Q9NVR7;P41182;P40337;P35712;Q9H8V3;P40306;Q9GZV8;P61586}

21106 Pathogen[ Q85601] interacts with 10 human

partners:{Q15532;P11473;P40337;P35712;P40306;P61586;Q9NZI6;Q9HBD4;Q13618;P41182}

21107 Pathogen[ P14079] interacts with 21 human

partners:{P16452;Q15532;Q01518;P11473;P40306;Q13618;P40123;P35475;P35712;Q9NVR7;P35611;P40337;P41182;Q2M3G4;Q9NZI6;P61586;Q9H8V3;Q9Y5W3;Q9GZV8;Q96JY0;P28360}

21108 Pathogen[ P03383] interacts with 9 human

partners:{P35712;Q9HBD4;P40337;P40306;Q15532;Q13618;P11473;P61586;Q9NZI6}

21109 Pathogen[ P03410] interacts with 18 human

partners:{P35712;Q2M3G4;P16452;P11473;Q9GZV8;P40306;P40123;Q13618;Q9NVR7;P61586;P41182;Q9NZI6;Q9H8V3;Q01518;Q9HBD4;Q15532;P35611;P40337}

21110 Pathogen[ P14075] interacts with 9 human

partners:{Q9HBD4;Q13618;Q15532;P35712;P11473;P61586;Q9NZI6;P40337;P40306}

21111 Pathogen[ P0C206] interacts with 15 human

partners:{P40306;P41182;Q9NVR7;Q15532;P61586;Q13618;P16452;Q2M3G4;Q9H8V3;Q9NZI6;P35712;Q9HBD4;Q9GZV8;P11473;P40337}

21112 Pathogen[ P03363] interacts with 11 human

partners:{Q2M3G4;Q13618;Q15532;P40337;P11473;Q9NZI6;Q96JY0;Q9HBD4;Q9NVR7;P35712;P16452}

21113 [Cluster 1920]GO:2000009+P biological\_process [name] negative regulation of protein localization at cell surface [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of protein localization at cell surface." [GOC



21114 Pathogen[ Q2Q067] interacts with 1 human partners:{O14907}

21115 Pathogen[ POC214] interacts with 1 human partners:{O14907}

21116 Pathogen[ P03346] interacts with 1 human partners:{O14907}

21117 Pathogen[ Q85601] interacts with 1 human partners:{O14907}

21118 Pathogen[ P14079] interacts with 1 human partners:{O14907}

21119 Pathogen[ P03383] interacts with 1 human partners:{O14907}

21120 Pathogen[ P03410] interacts with 1 human partners:{O14907}

21121 Pathogen[ P14075] interacts with 1 human partners:{O14907}

21122 Pathogen[ POC206] interacts with 1 human partners:{O14907}

21123 Pathogen[ P03363] interacts with 1 human partners:{O14907}

21124 [Cluster 1921]GO:0035606+P biological\_process [name] peptidyl-cysteine S-trans-nitrosylation [def] "Transfer of a nitric oxide (NO) group from one cysteine residue to another." [PMID

21125 Pathogen[ Q2Q067] interacts with 1 human partners:{P04406}

21126 Pathogen[ POC214] interacts with 1 human partners:{P04406}

21127 Pathogen[ P03346] interacts with 1 human partners:{P04406}

21128 Pathogen[ Q85601] interacts with 1 human partners:{P04406}

21129 Pathogen[ P14079] interacts with 1 human partners:{P04406}

21130 Pathogen[ P03383] interacts with 1 human partners:{P04406}

21131 Pathogen[ P03410] interacts with 1 human partners:{P04406}

21132 Pathogen[ P14075] interacts with 1 human partners:{P04406}

21133 Pathogen[ POC206] interacts with 1 human partners:{P04406}

21134 Pathogen[ P03363] interacts with 1 human partners:{P04406}

21135 [Cluster 1922]GO:0007040+P biological\_process [name] lysosome organization [def] "A process that is carried out at the cellular level which results in the assembly, arrangement of constituent parts, or disassembly of a lysosome. A lysosome is a cytoplasmic, membrane-bounded organelle that is found in most animal cells and that contains a variety of hydrolases." [GOC

21136 Pathogen[ Q2Q067] interacts with 7 human partners:{Q9NQG7;Q14457;Q8N612;Q9H8T0;Q9NZZ3;Q86VS8;Q96ED9}

21137 Pathogen[ POC214] interacts with 8 human partners:{Q14457;Q9NQG7;Q99698;Q96ED9;Q8N612;Q86VS8;Q9H8T0;Q9NZZ3}

21138 Pathogen[ P03346] interacts with 10 human partners:{Q9NQG7;Q99698;Q86VS8;Q9P253;Q8N612;Q14457;Q9NZZ3;Q9H8T0;Q96ED9;Q9UJC3}

21139 Pathogen[ Q85601] interacts with 9 human partners:{Q14457;Q9NQG7;Q86VS8;Q9P253;Q8N612;Q9H8T0;Q9NZZ3;Q96ED9;Q99698}

21140 Pathogen[ P14079] interacts with 16 human partners:{Q9NQG7;O14773;Q9UJC3;Q86VS8;Q96ED9;P35475;Q9H8T0;Q92902;O75503;Q6IAA8;Q9P253;Q8N612;Q9NWW5;Q9NZZ3;Q99698;Q14457}

21141 Pathogen[ P03383] interacts with 7 human partners:{Q14457;Q9NQG7;Q9NZZ3;Q8N612;Q9H8T0;Q86VS8;Q96ED9}

21142 Pathogen[ P03410] interacts with 15 human partners:{Q9NQG7;Q9UJC3;Q9NWW5;Q92902;Q14457;Q9H8T0;Q86VS8;Q9P253;O75503;Q96ED9;Q9NZZ3;Q8N612;Q6IAA8;Q99698;Q9UBY8}

21143 Pathogen[ P14075] interacts with 7 human partners:{Q14457;Q9NQG7;Q8N612;Q9H8T0;Q9NZZ3;Q86VS8;Q96ED9}

21144 Pathogen[ POC206] interacts with 10 human partners:{Q9NQG7;Q9H8T0;Q14457;Q99698;Q86VS8;Q96ED9;Q8N612;Q9P253;Q9NZZ3;Q9UJC3}

21145 Pathogen[ P03363] interacts with 10 human partners:{Q9NQG7;Q86VS8;Q96ED9;Q14457;Q9NZZ3;Q92902;Q99698;Q9H8T0;Q8N612;Q9UJC3}

21146 [Cluster 1923]GO:0010569+P biological\_process [name] regulation of double-strand break repair via homologous recombination [def] "Any process that modulates the frequency, rate or extent of the error-free repair of a double-strand break in DNA in which the broken DNA molecule is repaired using homologous sequences." [GOC

21147 Pathogen[ Q2Q067] interacts with 6 human partners:{Q9NYB0;O14757;Q8N6T7;P15927;Q9NY27;P60510}

21148 Pathogen[ POC214] interacts with 7 human partners:{Q9NY27;Q9BXT5;P60510;P15927;Q8N6T7;Q9NYB0;O14757}

21149 Pathogen[ P03346] interacts with 7 human partners:{Q9BXT5;Q9NY27;O14757;Q9NYB0;P15927;Q8N6T7;P60510}

21150 Pathogen[ Q85601] interacts with 7 human partners:{Q9BXT5;Q9NY27;O14757;P15927;Q8N6T7;P60510;Q9NYB0}

21151 Pathogen[ P14079] interacts with 6 human partners:{Q9BXT5;Q9NY27;Q8N6T7;Q9NYB0;P15927;P60510}

21152 Pathogen[ P03383] interacts with 6 human partners:{O14757;Q8N6T7;Q9NYB0;P15927;Q9NY27;P60510}

21153 Pathogen[ P03410] interacts with 7 human partners:{P60510;Q8N6T7;Q9BXT5;O14757;P15927;Q9NYB0;Q9NY27}

21154 Pathogen[ P14075] interacts with 7 human partners:{Q8N6T7;P60510;P15927;Q9NY27;Q9BXT5;O14757;Q9NYB0}

21155 Pathogen[ POC206] interacts with 6 human partners:{Q9BXT5;Q8N6T7;Q9NY27;Q9NYB0;P15927;P60510}

21156 Pathogen[ P03363] interacts with 7 human partners:{Q9NYB0;P15927;Q8N6T7;P60510;Q9NY27;Q9BXT5;O14757}

21157 [Cluster 1924]GO:0015939+P biological\_process [name] pantothenate metabolic process [def] "The chemical reactions and pathways involving pantothenate, the anion of

pantothenic acid, the amide of beta-alanine and pantoic acid. It is a B complex vitamin that is a constituent of coenzyme A and is distributed ubiquitously in foods." [GOC

21158 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9HAB8;Q9NRN7}

21159 Pathogen[ POC214] interacts with 5 human partners:{Q8TE04;Q9HAB8;Q13057;Q9BZ23;Q9NRN7}

21160 Pathogen[ P03346] interacts with 2 human partners:{Q9NRN7;Q9HAB8}

21161 Pathogen[ Q85601] interacts with 1 human partners:{Q9NRN7}

21162 Pathogen[ P14079] interacts with 6 human partners:{Q8TE04;Q9BZ23;Q13057;Q9NRN7;Q96CD2;Q9HAB8}

21163 Pathogen[ P03383] interacts with 3 human partners:{Q9NRN7;Q9BZ23;Q9HAB8}

21164 Pathogen[ P03410] interacts with 6 human partners:{Q8TE04;Q13057;Q96CD2;Q9NRN7;Q9BZ23;Q9HAB8}

21165 Pathogen[ P14075] interacts with 5 human partners:{Q9HAB8;Q13057;Q8TE04;Q9BZ23;Q9NRN7}

21166 Pathogen[ POC206] interacts with 5 human partners:{Q8TE04;Q13057;Q9BZ23;Q9HAB8;Q9NRN7}

21167 Pathogen[ P03363] interacts with 1 human partners:{Q9NRN7}

21168 [Cluster 1925]GO:0006402+P biological\_process [name] mRNA catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of mRNA, messenger RNA, which is responsible for carrying the coded genetic 'message', transcribed from DNA, to sites of protein assembly at the ribosomes." [ISBN

21169 Pathogen[ Q2Q067] interacts with 9 human partners:{Q8TCS8;Q9Y6X8;Q9HCK5;P08107;Q9H9G7;P13489;P26651;O95453;Q07352}

21170 Pathogen[ POC214] interacts with 9 human partners:{P13489;O95453;Q07352;Q8TCS8;Q9H9G7;Q9Y6X8;P26651;Q9HCK5;P08107}

21171 Pathogen[ P03346] interacts with 9 human partners:{P08107;P13489;Q9H9G7;O95453;Q9HCK5;Q8TCS8;Q9Y6X8;Q07352;P26651}

21172 Pathogen[ Q85601] interacts with 9 human partners:{P08107;Q9HCK5;Q07352;P26651;Q9H9G7;O95453;Q8TCS8;Q9Y6X8;P13489}

21173 Pathogen[ P14079] interacts with 8 human partners:{Q9H9G7;Q9HCK5;P13489;O95453;P08107;Q9Y6X8;Q8TCS8;Q07352}

21174 Pathogen[ P03383] interacts with 9 human partners:{P08107;Q9HCK5;Q8TCS8;Q07352;Q9Y6X8;P26651;P13489;O95453;Q9H9G7}

21175 Pathogen[ P03410] interacts with 9 human partners:{P13489;Q8TCS8;Q9H9G7;P26651;O95453;P08107;Q9HCK5;Q9Y6X8;Q07352}

21176 Pathogen[ P14075] interacts with 9 human partners:{O95453;Q9HCK5;Q9H9G7;P26651;P13489;Q9Y6X8;Q07352;Q8TCS8;P08107}

21177 Pathogen[ POC206] interacts with 9 human partners:{Q9HCK5;O95453;P26651;Q8TCS8;P13489;Q9Y6X8;P08107;Q9H9G7;Q07352}

21178 Pathogen[ P03363] interacts with 8 human partners:{O95453;Q9H9G7;Q9Y6X8;Q9HCK5;P13489;Q07352;P08107;P26651}

21179 [Cluster 1926]GO:0008361+P biological\_process [name] regulation of cell size [def] "Any process that modulates the size of a cell." [GOC

21180 Pathogen[ Q2Q067] interacts with 3 human partners:{Q8N5D0;Q16254;O43504}

21181 Pathogen[ POC214] interacts with 4 human partners:{Q16254;Q8N5D0;O43504;P16220}

21182 Pathogen[ P03346] interacts with 4 human partners:{P16220;Q16254;Q8N5D0;O43504}

21183 Pathogen[ Q85601] interacts with 3 human partners:{P16220;Q16254;Q8N5D0}

21184 Pathogen[ P14079] interacts with 4 human partners:{Q8N5D0;Q16254;Q0VGL1;O43504}

21185 Pathogen[ P03383] interacts with 4 human partners:{P16220;Q16254;O43504;Q8N5D0}

21186 Pathogen[ P03410] interacts with 6 human partners:{O43504;Q16254;P16220;Q8N5D0;Q0VGL1;Q9UBY8}

21187 Pathogen[ P14075] interacts with 4 human partners:{Q8N5D0;Q16254;O43504;P16220}

21188 Pathogen[ POC206] interacts with 4 human partners:{P16220;Q16254;O43504;Q8N5D0}

21189 Pathogen[ P03363] interacts with 4 human partners:{Q8N5D0;Q16254;P16220;O43504}

21190 [Cluster 1927]GO:0032870+P biological\_process [name] cellular response to hormone stimulus [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a hormone stimulus." [GOC

21191 Pathogen[ Q2Q067] interacts with 3 human partners:{P01100;P40763;O14508}

21192 Pathogen[ POC214] interacts with 4 human partners:{P01100;P17275;O14508;P40763}

21193 Pathogen[ P03346] interacts with 6 human partners:{Q15788;P48443;P17275;O14508;P40763;P01100}

21194 Pathogen[ Q85601] interacts with 4 human partners:{P40763;O14508;P01100;P17275}

21195 Pathogen[ P14079] interacts with 7 human partners:{P31751;P01215;P48443;P17275;Q15788;O14508;P01100}

21196 Pathogen[ P03383] interacts with 3 human partners:{P01100;P01215;P17275}

21197 Pathogen[ P03410] interacts with 5 human partners:{P01215;P01100;O14508;P17275;P40763}

21198 Pathogen[ P14075] interacts with 3 human partners:{P17275;P01100;P01215}

21199 Pathogen[ POC206] interacts with 7 human partners:{P17275;P01100;O14508;P01215;P40763;Q15788;P48443}

21200 Pathogen[ P03363] interacts with 3 human partners:{P17275;O14508;P01100}

21201 [Cluster 1928]GO:0031396+P biological\_process [name] regulation of protein ubiquitination [def] "Any process that modulates the frequency, rate or extent of the addition of ubiquitin groups to a protein." [GOC

21202 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9UER7;Q9UMX0}

21203 Pathogen[ P0C214] interacts with 3 human partners: {Q9UER7;P68543;Q9UMX0}  
21204 Pathogen[ P03346] interacts with 3 human partners: {Q9UMX0;Q9UER7;P68543}  
21205 Pathogen[ Q85601] interacts with 2 human partners: {Q9UER7;Q9UMX0}  
21206 Pathogen[ P14079] interacts with 4 human partners: {Q9UMX0;Q9UER7;P68543;Q15011}  
21207 Pathogen[ P03383] interacts with 2 human partners: {Q9UMX0;Q9UER7}  
21208 Pathogen[ P03410] interacts with 4 human partners: {P68543;Q9UMX0;Q9UER7;Q15011}  
21209 Pathogen[ P14075] interacts with 3 human partners: {Q15011;Q9UER7;Q9UMX0}  
21210 Pathogen[ P0C206] interacts with 4 human partners: {Q9UMX0;Q9UER7;P68543;Q15011}  
21211 Pathogen[ P03363] interacts with 2 human partners: {Q9UMX0;Q9UER7}  
21212 [Cluster 1929]GO:0006606+P biological\_process [name] protein import into nucleus  
[def] "The directed movement of a protein from the cytoplasm to the nucleus." [GOC  
21213 Pathogen[ Q2Q067] interacts with 29 human  
partners: {Q14974;O60684;P55265;Q86UA6;P49792;P40763;Q08209;Q9H2T7;Q96DC7;O94829;Q53F  
T3;O60318;P53801;Q96P70;P12270;Q96QC0;O15131;Q96MT3;A9QM74;O00505;Q9P0J0;Q8WWQ0;O953  
73;O00629;P52292;Q9H3M7;P35658;P52294;O95149}  
21214 Pathogen[ P0C214] interacts with 29 human  
partners: {O94829;A9QM74;Q96P70;Q9H3M7;P55265;O60684;O60318;P49792;O95149;Q96MT3;O151  
31;Q96DC7;Q53FT3;P52294;Q9P0J0;Q8WWQ0;P35658;Q08209;Q49AN0;O00505;P40763;P52292;P122  
70;Q14974;Q9H2T7;Q86UA6;O95373;Q96QC0;O00629}  
21215 Pathogen[ P03346] interacts with 32 human  
partners: {Q9NPC8;Q96P70;O00629;P12270;Q95149;Q9H2T7;P55265;Q96DC7;Q96QC0;Q49AN0;O603  
18;O00505;P35658;Q96MT3;O95373;O15131;Q8WWQ0;A9QM74;Q86UA6;P52292;O60684;P53801;Q9P0  
J0;O94829;Q08209;P40763;O95343;Q9H3M7;P52294;Q53FT3;P49792;Q14974}  
21216 Pathogen[ Q85601] interacts with 29 human  
partners: {O00629;Q53FT3;Q9P0J0;O95149;Q96DC7;Q96P70;Q86UA6;P40763;Q49AN0;O60318;P122  
70;Q14974;O94829;Q96MT3;Q08209;O15131;O95373;Q8WWQ0;A9QM74;P55265;P35658;Q96QC0;P522  
92;Q9H2T7;P49792;O00505;O60684;Q9H3M7;P52294}  
21217 Pathogen[ P14079] interacts with 28 human  
partners: {Q96DC7;O95373;Q96QC0;Q96P70;P35658;Q49AN0;P52294;O60684;Q8WWQ0;O95149;P122  
70;Q53FT3;O94829;O60318;P55265;Q14974;Q86UA6;Q9P0J0;A9QM74;O00505;Q9H3M7;P53801;Q9H2  
T7;Q96MT3;Q08209;O00629;P52292;O15131}  
21218 Pathogen[ P03383] interacts with 26 human  
partners: {Q86UA6;P49792;O94829;P12270;Q96P70;Q96MT3;O60318;O00505;A9QM74;P52292;Q9H2  
T7;O95149;P53801;Q14974;O15131;P35658;Q96QC0;Q53FT3;Q8WWQ0;Q9H3M7;P55265;O95373;Q9P0  
J0;O00629;P52294;Q96DC7}  
21219 Pathogen[ P03410] interacts with 30 human  
partners: {Q14974;A9QM74;O00505;Q96QC0;Q08209;P52294;Q96P70;Q86UA6;Q9H3M7;Q53FT3;P552  
65;P12270;Q8WWQ0;O00629;O60684;P35658;O94829;Q49AN0;Q9H2T7;O60318;Q9P0J0;P52292;Q96M  
T3;O15131;P40763;O95373;P49792;Q96DC7;O95149;P53801}  
21220 Pathogen[ P14075] interacts with 25 human  
partners: {P52292;O15131;P53801;Q96MT3;Q53FT3;Q8WWQ0;P55265;Q96P70;Q96QC0;Q9H2T7;P497  
92;O00629;P35658;P12270;O00505;P52294;O95373;Q96DC7;Q9H3M7;O95149;O94829;A9QM74;Q86U  
A6;Q14974;Q9P0J0}  
21221 Pathogen[ P0C206] interacts with 30 human  
partners: {O15131;Q96DC7;O95149;P55265;Q96MT3;A9QM74;O00629;O60684;Q14974;O00505;Q96P  
70;O60318;O94829;Q8WWQ0;P53801;P49792;O95373;P40763;Q9H2T7;Q9P0J0;Q9H3M7;Q96QC0;Q082  
09;Q49AN0;P52294;Q9UK53;Q53FT3;P52292;P35658;P12270}  
21222 Pathogen[ P03363] interacts with 30 human  
partners: {Q53FT3;P53801;O60684;Q8WWQ0;P12270;Q96MT3;A9QM74;Q96QC0;Q9H2T7;O00505;Q96P  
70;Q9H3M7;Q96DC7;O00629;Q86UA6;Q49AN0;Q9P0J0;O60318;P49792;P35658;P55265;Q14974;O948  
29;O15131;O95373;O95343;P52292;O95149;Q9NPC8;P52294}  
21223 [Cluster 1930]GO:0071310+P biological\_process [name] cellular response to organic  
substance [def] "Any process that results in a change in state or activity of a cell  
(in terms of movement, secretion, enzyme production, gene expression, etc.) as a result  
of an organic substance stimulus." [GOC  
21224 Pathogen[ Q2Q067] interacts with 10 human  
partners: {P24385;O14757;P20265;Q14765;P27797;P11161;Q9UPW6;O14529;P22736;P18146}  
21225 Pathogen[ P0C214] interacts with 11 human  
partners: {O14529;P05937;Q14765;P24385;P20265;P42574;P18146;P27797;P11161;Q9UPW6;O147  
57}  
21226 Pathogen[ P03346] interacts with 14 human  
partners: {O75603;P24385;Q9UPW6;O14757;P42574;P05937;P20265;P22736;P11137;P27797;P111  
61;P18146;Q14765;O14529}  
21227 Pathogen[ Q85601] interacts with 10 human  
partners: {P18146;O14529;P24385;Q14765;Q9UPW6;P27797;O14757;P22736;P11161;P20265}  
21228 Pathogen[ P14079] interacts with 9 human  
partners: {Q9UPW6;P05937;P20265;P13498;P22736;Q14765;P11161;O14529;P11137}  
21229 Pathogen[ P03383] interacts with 7 human  
partners: {O14757;Q9UPW6;P24385;P18146;P11161;P20265;P27797}  
21230 Pathogen[ P03410] interacts with 12 human  
partners: {P11137;Q14765;Q9UPW6;P24385;P05937;P22736;O14757;P20265;P18146;P11161;P277  
97;O14529}  
21231 Pathogen[ P14075] interacts with 7 human  
partners: {P11161;P18146;P20265;Q9UPW6;P27797;P24385;O14757}  
21232 Pathogen[ P0C206] interacts with 11 human  
partners: {P27797;P11161;O14529;P22736;P18146;P11137;Q9UPW6;P42574;P20265;Q14765;P243

85}

21233 Pathogen[ P03363] interacts with 11 human partners:{P11137;Q14765;O14529;P18146;P27797;P20265;P24385;Q9UPW6;P05937;O14757;P11161}

21234 [Cluster 1931]GO:0048844+P biological\_process [name] artery morphogenesis [def] "The process in which the anatomical structures of arterial blood vessels are generated and organized. Arteries are blood vessels that transport blood from the heart to the body and its organs." [GOC

21235 Pathogen[ Q2Q067] interacts with 3 human partners:{O15105;P49639;P54821}

21236 Pathogen[ P0C214] interacts with 2 human partners:{P49639;O15105}

21237 Pathogen[ P03346] interacts with 6 human partners:{P31271;P54821;P49639;Q99811;O15105;Q9P2D1}

21238 Pathogen[ Q85601] interacts with 4 human partners:{P49639;Q9P2D1;P31271;O15105}

21239 Pathogen[ P14079] interacts with 4 human partners:{P31271;Q9P2D1;P49639;O15105}

21240 Pathogen[ P03383] interacts with 2 human partners:{O15105;P49639}

21241 Pathogen[ P03410] interacts with 3 human partners:{Q9P2D1;P49639;O15105}

21242 Pathogen[ P14075] interacts with 1 human partners:{O15105}

21243 Pathogen[ P0C206] interacts with 5 human partners:{P54821;P49639;Q9P2D1;O15105;P31271}

21244 Pathogen[ P03363] interacts with 5 human partners:{P31271;O15105;P49639;P54821;Q99811}

21245 [Cluster 1932]GO:0030316+P biological\_process [name] osteoclast differentiation [def] "The process in which a relatively unspecialized monocyte acquires the specialized features of an osteoclast. An osteoclast is a specialized phagocytic cell associated with the absorption and removal of the mineralized matrix of bone tissue." [CL

21246 Pathogen[ Q2Q067] interacts with 3 human partners:{O75030;O15111;P48200}

21247 Pathogen[ P0C214] interacts with 5 human partners:{O15111;P17275;O75030;P48200;Q9UQC2}

21248 Pathogen[ P03346] interacts with 5 human partners:{O15111;P17275;Q9UQC2;O75030;P48200}

21249 Pathogen[ Q85601] interacts with 5 human partners:{Q9UQC2;O15111;O75030;P48200;P17275}

21250 Pathogen[ P14079] interacts with 6 human partners:{Q9H295;P17275;P48200;Q86WC4;O75030;Q9UQC2}

21251 Pathogen[ P03383] interacts with 4 human partners:{O15111;O75030;P48200;P17275}

21252 Pathogen[ P03410] interacts with 6 human partners:{Q9UQC2;O15111;O75030;P17275;Q86WC4;P48200}

21253 Pathogen[ P14075] interacts with 4 human partners:{O15111;O75030;P17275;P48200}

21254 Pathogen[ P0C206] interacts with 6 human partners:{P17275;O75030;P48200;O15111;Q9UQC2;Q86WC4}

21255 Pathogen[ P03363] interacts with 5 human partners:{O15111;P48200;P17275;O75030;Q9UQC2}

21256 [Cluster 1933]GO:0044249+P biological\_process [name] cellular biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of substances, carried out by individual cells." [GOC

21257 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BV20}

21258 Pathogen[ P0C214] interacts with 1 human partners:{Q9BV20}

21259 Pathogen[ P03346] interacts with 1 human partners:{Q9BV20}

21260 Pathogen[ Q85601] interacts with 1 human partners:{Q9BV20}

21261 Pathogen[ P14079] interacts with 1 human partners:{Q9BV20}

21262 Pathogen[ P03383] interacts with 1 human partners:{Q9BV20}

21263 Pathogen[ P03410] interacts with 1 human partners:{Q9BV20}

21264 Pathogen[ P14075] interacts with 1 human partners:{Q9BV20}

21265 Pathogen[ P0C206] interacts with 1 human partners:{Q9BV20}

21266 Pathogen[ P03363] interacts with 1 human partners:{Q9BV20}

21267 [Cluster 1934]GO:0034349+P biological\_process [name] glial cell apoptosis [def] "The process of apoptosis in glial cells." [GOC

21268 Pathogen[ Q2Q067] interacts with 1 human partners:{P55957}

21269 Pathogen[ P0C214] interacts with 1 human partners:{P55957}

21270 Pathogen[ P03346] interacts with 1 human partners:{P55957}

21271 Pathogen[ Q85601] interacts with 1 human partners:{P55957}

21272 Pathogen[ P14079] interacts with 1 human partners:{P55957}

21273 Pathogen[ P03383] interacts with 1 human partners:{P55957}

21274 Pathogen[ P03410] interacts with 1 human partners:{P55957}

21275 Pathogen[ P14075] interacts with 1 human partners:{P55957}

21276 Pathogen[ P0C206] interacts with 1 human partners:{P55957}

21277 Pathogen[ P03363] interacts with 1 human partners:{P55957}

21278 [Cluster 1935]GO:0090398+P biological\_process [name] cellular senescence [def] "A cell aging process stimulated in response to cellular stress, whereby normal cells lose the ability to divide through irreversible cell cycle arrest." [GOC

21279 Pathogen[ Q2Q067] interacts with 7 human partners:{Q8IY18;Q15554;Q8N726;P11831;P27797;P38936;Q96MF7}

21280 Pathogen[ P0C214] interacts with 7 human partners:{Q8IY18;Q15554;P11831;Q8N726;P38936;Q96MF7;P27797}

21281 Pathogen[ P03346] interacts with 7 human partners:{Q96MF7;P11831;Q15554;P27797;P38936;Q8N726;Q8IY18}

21282 Pathogen[ Q85601] interacts with 7 human partners:{P11831;Q8IY18;Q15554;P27797;Q8N726;P38936;Q96MF7}

21283 Pathogen[ P14079] interacts with 5 human partners:{Q96MF7;Q8N726;P38936;Q15554;Q8IY18}

21284 Pathogen[ P03383] interacts with 5 human partners:{P11831;Q15554;Q96MF7;Q8N726;P27797}

21285 Pathogen[ P03410] interacts with 7 human partners:{P11831;Q15554;Q8N726;Q96MF7;P38936;Q8IY18;P27797}

21286 Pathogen[ P14075] interacts with 5 human partners:{P11831;Q15554;P27797;Q96MF7;Q8N726}

21287 Pathogen[ P0C206] interacts with 7 human partners:{P27797;Q8N726;Q15554;P38936;Q96MF7;P11831;Q8IY18}

21288 Pathogen[ P03363] interacts with 6 human partners:{Q15554;P11831;P27797;Q8N726;Q8IY18;Q96MF7}

21289 [Cluster 1936]GO:0035246+P biological\_process [name] peptidyl-arginine N-methylation [def] "The addition of a methyl group onto a nitrogen atom of an arginine residue in a protein." [GOC

21290 Pathogen[ Q2Q067] interacts with 4 human partners:{O14744;P55345;Q86XK2;Q86X55}

21291 Pathogen[ P0C214] interacts with 3 human partners:{P55345;Q86XK2;Q86X55}

21292 Pathogen[ P03346] interacts with 4 human partners:{O14744;Q86XK2;P55345;Q86X55}

21293 Pathogen[ Q85601] interacts with 4 human partners:{Q86X55;Q86XK2;O14744;P55345}

21294 Pathogen[ P14079] interacts with 3 human partners:{Q86XK2;P55345;O14744}

21295 Pathogen[ P03383] interacts with 3 human partners:{Q86X55;Q86XK2;O14744}

21296 Pathogen[ P03410] interacts with 4 human partners:{Q86X55;Q86XK2;O14744;P55345}

21297 Pathogen[ P14075] interacts with 3 human partners:{O14744;Q86X55;Q86XK2}

21298 Pathogen[ P0C206] interacts with 4 human partners:{Q86XK2;O14744;Q86X55;P55345}

21299 Pathogen[ P03363] interacts with 3 human partners:{O14744;Q86XK2;Q86X55}

21300 [Cluster 1937]GO:0009743+P biological\_process [name] response to carbohydrate stimulus [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a carbohydrate stimulus." [GOC

21301 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9H2P0;P05062;P08397}

21302 Pathogen[ P0C214] interacts with 4 human partners:{P05062;P08397;P48163;Q9H2P0}

21303 Pathogen[ P03346] interacts with 2 human partners:{Q9H2P0;P05062}

21304 Pathogen[ Q85601] interacts with 3 human partners:{P05062;Q9H2P0;P08397}

21305 Pathogen[ P14079] interacts with 3 human partners:{Q9H2P0;P61158;P08397}

21306 Pathogen[ P03383] interacts with 1 human partners:{P08397}

21307 Pathogen[ P03410] interacts with 2 human partners:{P08397;P05062}

21308 Pathogen[ P14075] interacts with 1 human partners:{P08397}

21309 Pathogen[ P0C206] interacts with 3 human partners:{P05062;Q9H2P0;P08397}

21310 Pathogen[ P03363] interacts with 1 human partners:{Q9H2P0}

21311 [Cluster 1938]GO:0002576+P biological\_process [name] platelet degranulation [def] "The regulated exocytosis of secretory granules containing preformed mediators such as histamine and serotonin by a platelet." [GOC

21312 Pathogen[ Q2Q067] interacts with 7 human partners:{P07737;P01009;P23528;P62328;P08697;Q5JVS0;P62937}

21313 Pathogen[ P0C214] interacts with 6 human partners:{P08697;Q5JVS0;P05121;P10124;P10909;P62328}

21314 Pathogen[ P03346] interacts with 6 human partners:{P62937;Q5JVS0;P62328;P01009;P07737;P23528}

21315 Pathogen[ Q85601] interacts with 8 human partners:{Q5JVS0;P08697;P07737;P01009;P05121;P62328;P23528;P62937}

21316 Pathogen[ P14079] interacts with 9 human partners:{Q5JVS0;Q01518;P07737;P10909;P62937;P23528;P62328;P10124;Q9BYX7}

21317 Pathogen[ P03383] interacts with 8 human partners:{Q5JVS0;P62328;P08697;P62937;P07737;P01009;P10124;P23528}

21318 Pathogen[ P03410] interacts with 11 human partners:{P05121;P62328;P10124;P62937;P08697;Q5JVS0;P01009;Q01518;P23528;P07737;P10909}

21319 Pathogen[ P14075] interacts with 8 human partners:{P62328;P01009;P07737;P23528;Q5JVS0;P08697;P62937;P10124}

21320 Pathogen[ P0C206] interacts with 10 human partners:{P62328;P01009;Q5JVS0;P10909;P05121;P07737;P23528;P62937;P10124;P08697}

21321 Pathogen[ P03363] interacts with 5 human partners:{P62937;P62328;Q5JVS0;P23528;P07737}

21322 [Cluster 1939]GO:0060713+P biological\_process [name] labyrinthine layer morphogenesis [def] "The process in which the labyrinthine layer of the placenta is generated and organized." [GOC

21323 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8N693}

21324 Pathogen[ P0C214] interacts with 1 human partners:{Q8N693}

21325 Pathogen[ P03346] interacts with 1 human partners:{Q8N693}

21326 Pathogen[ Q85601] interacts with 1 human partners:{Q8N693}

21327 Pathogen[ P14079] interacts with 1 human partners:{Q8N693}

21328 Pathogen[ P03383] interacts with 1 human partners:{Q8N693}

21329 Pathogen[ P03410] interacts with 1 human partners:{Q8N693}

21330 Pathogen[ P14075] interacts with 1 human partners:{Q8N693}

21331 Pathogen[ P0C206] interacts with 1 human partners:{Q8N693}  
21332 Pathogen[ P03363] interacts with 1 human partners:{Q8N693}  
21333 [Cluster 1940]GO:0018394+P biological\_process [name] peptidyl-lysine acetylation  
[def] "The acetylation of peptidyl-lysine." [GOC  
21334 Pathogen[ Q2Q067] interacts with 2 human partners:{Q92831;P78537}  
21335 Pathogen[ P0C214] interacts with 2 human partners:{P78537;Q92831}  
21336 Pathogen[ P03346] interacts with 2 human partners:{Q92831;P78537}  
21337 Pathogen[ Q85601] interacts with 2 human partners:{Q92831;P78537}  
21338 Pathogen[ P14079] interacts with 1 human partners:{P78537}  
21339 Pathogen[ P03383] interacts with 2 human partners:{Q92831;P78537}  
21340 Pathogen[ P03410] interacts with 2 human partners:{Q92831;P78537}  
21341 Pathogen[ P14075] interacts with 2 human partners:{P78537;Q92831}  
21342 Pathogen[ P0C206] interacts with 2 human partners:{P78537;Q92831}  
21343 Pathogen[ P03363] interacts with 2 human partners:{Q92831;P78537}  
21344 [Cluster 1941]GO:0034612+P biological\_process [name] response to tumor necrosis factor  
[def] "Any process that results in a change in state or activity of a cell or an  
organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as  
a result of a tumor necrosis factor stimulus." [GOC  
21345 Pathogen[ Q2Q067] interacts with 6 human  
partners:{Q9Y5A7;P30793;Q14790;P51826;P78318;O15205}  
21346 Pathogen[ P0C214] interacts with 7 human  
partners:{P78318;P30793;P51826;P42574;O15205;Q9Y5A7;Q14790}  
21347 Pathogen[ P03346] interacts with 6 human  
partners:{P51826;P42574;Q9Y5A7;O15205;Q14790;P78318}  
21348 Pathogen[ Q85601] interacts with 6 human  
partners:{Q14790;P51826;P30793;O15205;Q9Y5A7;P78318}  
21349 Pathogen[ P14079] interacts with 7 human  
partners:{P30793;Q14249;Q14790;O15205;P51826;Q9Y5A7;P78318}  
21350 Pathogen[ P03383] interacts with 4 human partners:{Q9Y5A7;P78318;O15205;P51826}  
21351 Pathogen[ P03410] interacts with 6 human  
partners:{O15205;P78318;P51826;Q9Y5A7;P30793;Q14249}  
21352 Pathogen[ P14075] interacts with 5 human  
partners:{Q9Y5A7;P78318;P30793;O15205;P51826}  
21353 Pathogen[ P0C206] interacts with 8 human  
partners:{P78318;O15205;P30793;Q14790;P42574;P51826;Q9Y5A7;Q14249}  
21354 Pathogen[ P03363] interacts with 4 human partners:{O15205;P51826;P78318;Q9Y5A7}  
21355 [Cluster 1942]GO:0016447+P biological\_process [name] somatic recombination of  
immunoglobulin gene segments [def] "The process in which immunoglobulin genes are  
formed through recombination of the germline genetic elements, as known as  
immunoglobulin gene segments, within a single locus." [GOC  
21356 Pathogen[ Q2Q067] interacts with 2 human partners:{P54278;P13051}  
21357 Pathogen[ P0C214] interacts with 4 human partners:{P20585;P54278;P40692;P13051}  
21358 Pathogen[ P03346] interacts with 3 human partners:{P13051;P20585;P54278}  
21359 Pathogen[ Q85601] interacts with 4 human partners:{P13051;P20585;P54278;P40692}  
21360 Pathogen[ P14079] interacts with 5 human  
partners:{P20585;P40692;P54278;P52701;P13051}  
21361 Pathogen[ P03383] interacts with 2 human partners:{P54278;P13051}  
21362 Pathogen[ P03410] interacts with 5 human  
partners:{P40692;P20585;P52701;P54278;P13051}  
21363 Pathogen[ P14075] interacts with 2 human partners:{P13051;P54278}  
21364 Pathogen[ P0C206] interacts with 5 human  
partners:{P54278;P52701;P40692;P20585;P13051}  
21365 Pathogen[ P03363] interacts with 3 human partners:{P13051;P20585;P54278}  
21366 [Cluster 1943]GO:0051156+P biological\_process [name] glucose 6-phosphate metabolic  
process [def] "The chemical reactions and pathways involving glucose 6-phosphate, a  
monophosphorylated derivative of glucose with the phosphate group attached to C-6." [GOC  
21367 Pathogen[ Q2Q067] interacts with 1 human partners:{P06744}  
21368 Pathogen[ P0C214] interacts with 1 human partners:{P11413}  
21369 Pathogen[ P03346] interacts with 1 human partners:{P06744}  
21370 Pathogen[ Q85601] interacts with 1 human partners:{P06744}  
21371 Pathogen[ P14079] interacts with 1 human partners:{P06744}  
21372 Pathogen[ P03383] interacts with 1 human partners:{P06744}  
21373 Pathogen[ P03410] interacts with 1 human partners:{P06744}  
21374 Pathogen[ P14075] interacts with 1 human partners:{P06744}  
21375 Pathogen[ P0C206] interacts with 1 human partners:{P06744}  
21376 Pathogen[ P03363] interacts with 1 human partners:{P06744}  
21377 [Cluster 1944]GO:0045103+P biological\_process [name] intermediate filament-based  
process [def] "Any cellular process that depends upon or alters the intermediate  
filament cytoskeleton, that part of the cytoskeleton comprising intermediate filaments  
and their associated proteins." [GOC  
21378 Pathogen[ Q2Q067] interacts with 3 human partners:{P14136;Q9H7C4;P08670}  
21379 Pathogen[ P0C214] interacts with 3 human partners:{Q9H7C4;P14136;P08670}  
21380 Pathogen[ P03346] interacts with 3 human partners:{P14136;P08670;Q9H7C4}  
21381 Pathogen[ Q85601] interacts with 3 human partners:{P08670;P14136;Q9H7C4}  
21382 Pathogen[ P14079] interacts with 3 human partners:{Q9H7C4;P14136;P08670}  
21383 Pathogen[ P03383] interacts with 3 human partners:{P08670;P14136;Q9H7C4}

21384 Pathogen[ P03410] interacts with 3 human partners:{Q9H7C4;P08670;P14136}

21385 Pathogen[ P14075] interacts with 3 human partners:{P14136;Q9H7C4;P08670}

21386 Pathogen[ P0C206] interacts with 3 human partners:{P14136;Q9H7C4;P08670}

21387 Pathogen[ P03363] interacts with 3 human partners:{Q9H7C4;P08670;P14136}

21388 [Cluster 1945]GO:0045741+P biological\_process [name] positive regulation of epidermal growth factor-activated receptor activity [def] "Any process that activates or increases the frequency, rate or extent of EGF-activated receptor activity." [GOC

21389 Pathogen[ Q2Q067] interacts with 1 human partners:{Q969H0}

21390 Pathogen[ P0C214] interacts with 1 human partners:{Q969H0}

21391 Pathogen[ P03346] interacts with 1 human partners:{Q969H0}

21392 Pathogen[ Q85601] interacts with 1 human partners:{Q969H0}

21393 Pathogen[ P14079] interacts with 1 human partners:{Q969H0}

21394 Pathogen[ P03383] interacts with 1 human partners:{Q969H0}

21395 Pathogen[ P03410] interacts with 1 human partners:{Q969H0}

21396 Pathogen[ P14075] interacts with 1 human partners:{Q969H0}

21397 Pathogen[ P0C206] interacts with 1 human partners:{Q969H0}

21398 Pathogen[ P03363] interacts with 1 human partners:{Q969H0}

21399 [Cluster 1946]GO:0001825+P biological\_process [name] blastocyst formation [def] "The initial formation of a blastocyst from a solid ball of cells known as a morula." [GOC

21400 Pathogen[ Q2Q067] interacts with 3 human partners:{Q15561;Q07157;P12757}

21401 Pathogen[ P0C214] interacts with 5 human partners:{Q6RFH5;P12757;Q15561;Q9NPC3;Q07157}

21402 Pathogen[ P03346] interacts with 5 human partners:{P12757;Q15561;Q07157;Q9NPC3;Q6RFH5}

21403 Pathogen[ Q85601] interacts with 5 human partners:{P12757;Q07157;Q9NPC3;Q6RFH5;Q15561}

21404 Pathogen[ P14079] interacts with 4 human partners:{Q15561;Q07157;Q9NPC3;P12757}

21405 Pathogen[ P03383] interacts with 3 human partners:{Q15561;Q07157;P12757}

21406 Pathogen[ P03410] interacts with 5 human partners:{Q9NPC3;Q6RFH5;Q15561;Q07157;P12757}

21407 Pathogen[ P14075] interacts with 3 human partners:{Q07157;Q15561;P12757}

21408 Pathogen[ P0C206] interacts with 5 human partners:{Q9NPC3;Q6RFH5;P12757;Q07157;Q15561}

21409 Pathogen[ P03363] interacts with 5 human partners:{P12757;Q9NPC3;Q07157;Q15561;Q6RFH5}

21410 [Cluster 1947]GO:0006393+P biological\_process [name] termination of mitochondrial transcription [def] "The process in which the synthesis of an RNA molecule using a mitochondrial DNA template is completed." [GOC

21411 Pathogen[ Q2Q067] interacts with 1 human partners:{Q99551}

21412 Pathogen[ P0C214] interacts with 1 human partners:{Q99551}

21413 Pathogen[ P03346] interacts with 1 human partners:{Q99551}

21414 Pathogen[ Q85601] interacts with 1 human partners:{Q99551}

21415 Pathogen[ P14079] interacts with 1 human partners:{Q99551}

21416 Pathogen[ P03383] interacts with 1 human partners:{Q99551}

21417 Pathogen[ P03410] interacts with 1 human partners:{Q99551}

21418 Pathogen[ P14075] interacts with 1 human partners:{Q99551}

21419 Pathogen[ P0C206] interacts with 1 human partners:{Q99551}

21420 Pathogen[ P03363] interacts with 1 human partners:{Q99551}

21421 [Cluster 1948]GO:0001755+P biological\_process [name] neural crest cell migration [def] "The characteristic movement of cells from the dorsal ridge of the neural tube to a variety of locations in a vertebrate embryo." [GOC

21422 Pathogen[ Q2Q067] interacts with 3 human partners:{O60315;P23528;P56693}

21423 Pathogen[ P0C214] interacts with 2 human partners:{P56693;O60315}

21424 Pathogen[ P03346] interacts with 5 human partners:{O60315;P56693;P52951;P23528;Q9UJU5}

21425 Pathogen[ Q85601] interacts with 3 human partners:{O60315;P56693;P23528}

21426 Pathogen[ P14079] interacts with 4 human partners:{Q8IZ21;O60315;P23528;P56693}

21427 Pathogen[ P03383] interacts with 2 human partners:{P23528;P56693}

21428 Pathogen[ P03410] interacts with 3 human partners:{Q8IZ21;P56693;P23528}

21429 Pathogen[ P14075] interacts with 2 human partners:{P56693;P23528}

21430 Pathogen[ P0C206] interacts with 3 human partners:{P56693;O60315;P23528}

21431 Pathogen[ P03363] interacts with 5 human partners:{O60315;P56693;P23528;P52951;Q9UJU5}

21432 [Cluster 1949]GO:0032471+P biological\_process [name] reduction of endoplasmic reticulum calcium ion concentration [def] "Any process that decreases the concentration of calcium ions in the endoplasmic reticulum." [GOC

21433 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BXH1}

21434 Pathogen[ P0C214] interacts with 1 human partners:{Q9BXH1}

21435 Pathogen[ P03346] interacts with 1 human partners:{Q9BXH1}

21436 Pathogen[ Q85601] interacts with 1 human partners:{Q9BXH1}

21437 Pathogen[ P14079] interacts with 1 human partners:{Q9BXH1}

21438 Pathogen[ P03383] interacts with 1 human partners:{Q9BXH1}

21439 Pathogen[ P03410] interacts with 1 human partners:{Q9BXH1}

21440 Pathogen[ P14075] interacts with 1 human partners:{Q9BXH1}

21441 Pathogen[ P0C206] interacts with 1 human partners:{Q9BXH1}

21442 Pathogen[ P03363] interacts with 1 human partners:{Q9BXH1}

- 21443 [Cluster 1950]GO:0046325+P biological\_process [name] negative regulation of glucose import [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the import of the hexose monosaccharide glucose into a cell or organelle." [GOC]
- 21444 Pathogen[ Q2Q067] interacts with 3 human partners: {Q7Z2X4;Q9BQE4;Q15121}
- 21445 Pathogen[ P0C214] interacts with 3 human partners: {Q15121;Q7Z2X4;Q9BQE4}
- 21446 Pathogen[ P03346] interacts with 3 human partners: {Q13322;Q7Z2X4;Q15121}
- 21447 Pathogen[ Q85601] interacts with 3 human partners: {Q15121;Q7Z2X4;Q9BQE4}
- 21448 Pathogen[ P14079] interacts with 3 human partners: {Q9BQE4;Q15121;Q7Z2X4}
- 21449 Pathogen[ P03383] interacts with 2 human partners: {Q15121;Q9BQE4}
- 21450 Pathogen[ P03410] interacts with 3 human partners: {Q15121;Q9BQE4;Q7Z2X4}
- 21451 Pathogen[ P14075] interacts with 2 human partners: {Q9BQE4;Q15121}
- 21452 Pathogen[ P0C206] interacts with 3 human partners: {Q7Z2X4;Q15121;Q9BQE4}
- 21453 Pathogen[ P03363] interacts with 1 human partners: {Q15121}
- 21454 [Cluster 1951]GO:0042127+P biological\_process [name] regulation of cell proliferation [def] "Any process that modulates the frequency, rate or extent of cell proliferation." [GOC]
- 21455 Pathogen[ Q2Q067] interacts with 43 human partners: {O60806;Q13118;O15525;Q9BVP2;P55957;Q9NS56;P36402;P46937;Q15910;Q13485;Q9UN S1;Q9UBB5;P41182;Q9UL49;O60535;Q08050;O43399;O43524;O75884;P26358;O76095;O43251;Q162 54;Q9NTI5;O75030;Q9BWT1;Q9H6Z9;Q13526;P25963;Q9NR09;P11474;Q8N6I1;P42226;P11802;P216 73;Q13490;Q9H3M7;O15360;P40424;P49715;Q03112;Q9NW38;Q10586}
- 21456 Pathogen[ P0C214] interacts with 41 human partners: {P40424;Q16254;P11474;Q13490;P46379;Q9H3M7;P42226;Q9NS56;Q03112;P11802;Q135 26;P46937;P55957;O75884;O60535;Q15910;O75030;P05121;Q8N6I1;Q10586;P98170;Q9H6Z9;Q9BW T1;P26358;Q13485;Q9UN S1;O15525;P25963;P41182;O15360;P36402;O60806;Q9NR09;P21673;Q9UB B5;O43251;Q9NTI5;Q96CA5;Q9NW38;Q9BVP2;O43399}
- 21457 Pathogen[ P03346] interacts with 54 human partners: {P46937;P35453;P36402;Q693B1;P25963;O15360;P55957;Q9UN S1;P98170;O60806;Q080 50;P42226;Q96QS3;P21673;P26358;Q13526;Q16254;O75030;P49715;P11802;Q9UL49;Q9NS56;P175 42;O75884;Q13118;Q03112;P46379;Q9NTI5;Q8N6I1;Q12778;O43251;Q9BWT1;Q15910;P41182;O155 25;Q9H2C1;Q9NR09;P11474;Q10586;Q13490;P40424;O60535;Q13485;O43399;O76095;O00482;Q9NW 38;Q8TAU0;Q96CA5;O43524;Q9UBB5;Q9H3M7;Q9H6Z9;Q9BVP2}
- 21458 Pathogen[ Q85601] interacts with 45 human partners: {Q9H6Z9;Q9NS56;Q13490;O75030;Q03112;P46379;P98170;P21673;P26358;Q9NTI5;O155 25;P11802;O60806;O43399;Q8N6I1;Q9BWT1;P40424;Q13526;P42226;O60535;P55957;Q16254;Q9NW 38;P05121;P11474;P36402;Q13118;O75884;O15360;O00482;P49715;O76095;Q15910;Q9NR09;P469 37;Q08050;P41182;Q96CA5;Q13485;Q9UBB5;Q9H3M7;Q9BVP2;Q10586;Q9UN S1;P25963}
- 21459 Pathogen[ P14079] interacts with 41 human partners: {P04083;P41238;Q9BVP2;Q13118;Q16254;O76095;Q9UBB5;P11474;Q9BWT1;P46937;P364 02;Q9NR09;Q9NTI5;P42226;P41182;Q9UL49;O00482;Q9UEE9;P49715;Q9H6Z9;P26358;P04141;Q9NS 56;Q96QR1;O15525;Q99439;Q9H3M7;O75884;Q15910;O43399;Q13526;O75030;Q9NW38;P21673;Q9UN S1;Q8N6I1;Q10586;O15360;Q99836;P55957;Q13490}
- 21460 Pathogen[ P03383] interacts with 35 human partners: {Q9UN S1;Q13485;Q8N6I1;P40424;Q9UL49;Q13490;Q9BWT1;P55957;O43399;O75030;P422 26;P11802;O15525;Q9UBB5;O60535;P11474;Q03112;O75884;Q9H6Z9;Q16254;P25963;P36402;Q159 10;Q9NR09;Q9H3M7;Q10586;O15360;O76095;Q9NW38;Q9NTI5;P46937;Q9BVP2;P21673;P26358;Q135 26}
- 21461 Pathogen[ P03410] interacts with 44 human partners: {O43399;P04141;P05121;Q96QR1;Q03112;O60535;O60806;Q9H6Z9;P36402;Q8N6I1;Q135 26;Q9BWT1;Q9UL49;P41238;O75030;Q16254;Q13490;Q9UBB5;Q9H3M7;Q9UEE9;P55957;P26358;Q9NR 09;O15525;Q99439;P11802;Q9NTI5;Q13485;P46937;Q13118;P21673;Q15910;P41182;O15360;Q105 86;P42226;Q9BVP2;P11474;Q9UN S1;O76095;Q9NW38;P25963;P40424;O75884}
- 21462 Pathogen[ P14075] interacts with 38 human partners: {P55957;O15360;P40424;O75030;P11802;P42226;P11474;O76095;Q08050;Q15910;Q9UB B5;P25963;P26358;Q9NW38;Q13485;Q96QR1;Q10586;Q13490;Q16254;Q9UL49;Q13526;Q8N6I1;Q9H3 M7;P36402;Q03112;O15525;Q9UEE9;Q9UN S1;Q9NR09;P46937;O75884;P21673;Q9NTI5;O43399;Q9BW T1;Q9BVP2;O60535;Q9H6Z9}
- 21463 Pathogen[ P0C206] interacts with 51 human partners: {Q9UN S1;P46937;Q9NS56;O15360;Q13526;Q8N6I1;Q9UBB5;Q9BVP2;O75884;O75030;P411 82;Q9UEE9;P25963;Q9UL49;P26358;P49715;P98170;O15525;Q15910;O00482;Q16254;P40424;O433 99;P21673;Q03112;Q693B1;Q9NR09;Q9BWT1;Q9H2C1;O60535;Q13485;Q9NTI5;Q08050;P42226;Q9H3 M7;Q9H6Z9;P05121;Q96CA5;P11474;P41238;Q13118;Q8TAU0;P46379;P36402;O60806;P11802;P559 57;Q9NW38;O76095;Q10586;Q13490}
- 21464 Pathogen[ P03363] interacts with 48 human partners: {P46379;O43399;Q9NW38;Q13490;P35453;P55957;O15360;O60535;P36402;P25963;Q031 12;Q10586;Q9H6Z9;Q15910;Q9H3M7;O75884;Q16254;P11474;Q13526;P42226;P21673;O43524;Q080 50;P46937;Q9NR09;O75030;O15525;Q9UN S1;P98170;P26358;Q9BWT1;O76095;Q13485;O60806;Q96C A5;Q96QS3;Q9BVP2;Q9NTI5;P40424;P11802;Q8TAU0;Q8N6I1;Q9UL49;Q693B1;O43251;Q13118;Q9UB B5;O00482}
- 21465 [Cluster 1952]GO:0045840+P biological\_process [name] positive regulation of mitosis [def] "Any process that activates or increases the frequency, rate or extent of mitosis." [GOC]
- 21466 Pathogen[ Q2Q067] interacts with 4 human partners: {Q9H4X1;P54274;Q8WWQ0;Q9BXS6}
- 21467 Pathogen[ P0C214] interacts with 4 human partners: {Q9H4X1;Q9BXS6;Q8WWQ0;P54274}
- 21468 Pathogen[ P03346] interacts with 8 human



21469 partners:{P31271;Q9BXS6;Q9H4X1;P54274;Q9NRF2;Q8WWQ0;Q9Y5R6;O14965}  
Pathogen[ Q85601] interacts with 6 human

21470 partners:{Q9H4X1;Q9BXS6;O14965;Q8WWQ0;P31271;P54274}  
Pathogen[ P14079] interacts with 5 human

21471 partners:{P54274;Q8WWQ0;P31271;Q9BXS6;O14965}  
Pathogen[ P03383] interacts with 5 human

21472 partners:{Q9H4X1;Q9BXS6;O14965;Q8WWQ0;P54274}  
Pathogen[ P03410] interacts with 5 human

21473 partners:{Q9H4X1;P54274;Q9BXS6;O14965;Q8WWQ0}  
Pathogen[ P14075] interacts with 5 human

21474 partners:{Q9H4X1;Q8WWQ0;Q9BXS6;P54274;O14965}  
Pathogen[ P0C206] interacts with 7 human

21475 partners:{Q9H4X1;Q9Y5R6;Q8WWQ0;P54274;P31271;Q9BXS6;O14965}  
Pathogen[ P03363] interacts with 6 human

21476 partners:{Q8WWQ0;Q9H4X1;P31271;Q9BXS6;Q9Y5R6;P54274}  
[Cluster 1953]GO:0009880+P biological\_process [name] embryonic pattern specification  
[def] "The process that results in the patterns of cell differentiation that will arise  
in an embryo." [GOC

21477 Pathogen[ Q2Q067] interacts with 8 human  
partners:{A6NGQ2;Q0D2K3;Q05516;P84022;Q9UPW6;Q15796;Q99717;Q15797}

21478 Pathogen[ P0C214] interacts with 7 human  
partners:{P84022;Q15796;Q99717;Q0D2K3;Q9UPW6;Q15797;Q05516}

21479 Pathogen[ P03346] interacts with 10 human  
partners:{Q9UPW6;Q15797;Q15796;Q99717;P84022;Q14190;Q05516;A8MTQ0;Q0D2K3;A6NGQ2}

21480 Pathogen[ Q85601] interacts with 7 human  
partners:{Q9UPW6;Q15797;Q99717;Q0D2K3;Q05516;P84022;Q15796}

21481 Pathogen[ P14079] interacts with 5 human  
partners:{Q9UPW6;Q05516;Q15797;A6NGQ2;Q0D2K3}

21482 Pathogen[ P03383] interacts with 8 human  
partners:{Q0D2K3;Q9UPW6;Q15797;Q05516;P84022;A6NGQ2;Q99717;Q15796}

21483 Pathogen[ P03410] interacts with 7 human  
partners:{P84022;A6NGQ2;Q99717;Q9UPW6;Q0D2K3;Q15797;Q15796}

21484 Pathogen[ P14075] interacts with 7 human  
partners:{Q0D2K3;Q99717;Q15796;Q9UPW6;A6NGQ2;Q05516;P84022}

21485 Pathogen[ P0C206] interacts with 8 human  
partners:{A6NGQ2;P84022;Q05516;Q99717;Q0D2K3;Q15796;Q9UPW6;Q15797}

21486 Pathogen[ P03363] interacts with 9 human  
partners:{A6NGQ2;A8MTQ0;Q0D2K3;Q15797;Q15796;P84022;Q05516;Q99717;Q9UPW6}

21487 [Cluster 1954]GO:0051325+P biological\_process [name] interphase [def] "A cell cycle  
process comprising the steps by which a cell progresses through interphase, the stage of  
cell cycle between successive rounds of chromosome segregation. Canonically, interphase  
is the stage of the cell cycle during which the biochemical and physiologic functions of  
the cell are performed and replication of chromatin occurs." [GOC

21488 Pathogen[ Q2Q067] interacts with 1 human partners:{P08729}

21489 Pathogen[ P0C214] interacts with 1 human partners:{P08729}

21490 Pathogen[ P03346] interacts with 1 human partners:{P08729}

21491 Pathogen[ Q85601] interacts with 1 human partners:{P08729}

21492 Pathogen[ P14079] interacts with 1 human partners:{P08729}

21493 Pathogen[ P03383] interacts with 1 human partners:{P08729}

21494 Pathogen[ P03410] interacts with 1 human partners:{P08729}

21495 Pathogen[ P14075] interacts with 1 human partners:{P08729}

21496 Pathogen[ P0C206] interacts with 1 human partners:{P08729}

21497 Pathogen[ P03363] interacts with 1 human partners:{P08729}

21498 [Cluster 1955]GO:0009725+P biological\_process [name] response to hormone stimulus  
[def] "Any process that results in a change in state or activity of a cell or an  
organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as  
a result of a hormone stimulus." [GOC

21499 Pathogen[ Q2Q067] interacts with 10 human  
partners:{P31749;Q14192;P35573;P11831;Q9Y6X2;Q14686;Q96T76;Q96PK6;P08397;Q16836}

21500 Pathogen[ P0C214] interacts with 10 human  
partners:{Q9Y6X2;P11831;Q14686;P35573;P08397;Q14192;Q96PK6;P48163;P31749;Q96T76}

21501 Pathogen[ P03346] interacts with 12 human  
partners:{Q15788;Q16836;P11831;Q12772;P35573;P31749;Q14192;P14317;Q9Y6X2;Q96PK6;Q96T  
76;Q14686}

21502 Pathogen[ Q85601] interacts with 12 human  
partners:{P11831;Q96T76;Q96PK6;P31749;Q9Y6X2;Q12772;Q14686;P35573;Q14192;P14317;Q168  
36;P08397}

21503 Pathogen[ P14079] interacts with 14 human  
partners:{P04083;Q9Y6X2;Q14192;Q12772;P08397;P11686;P35573;Q15788;P03897;P02144;Q96T  
76;Q14686;Q96PK6;Q16836}

21504 Pathogen[ P03383] interacts with 10 human  
partners:{P11831;Q96T76;P31749;Q16836;Q14686;P35573;Q96PK6;Q14192;Q9Y6X2;P08397}

21505 Pathogen[ P03410] interacts with 14 human  
partners:{P11831;Q96T76;P02144;Q96PK6;P08397;Q14686;P35573;Q9Y6X2;P31749;P11686;Q127  
72;Q16836;P03897;Q14192}

21506 Pathogen[ P14075] interacts with 10 human

- 21507 partners:{P11831;Q14686;P08397;P31749;Q96PK6;Q16836;P35573;Q9Y6X2;Q14192;Q96T76}  
Pathogen[ P0C206] interacts with 13 human  
partners:{P31749;P14317;Q16836;Q9Y6X2;Q96PK6;Q14686;Q96T76;P11831;Q14192;P08397;Q15788;Q12772;P35573}
- 21508 Pathogen[ P03363] interacts with 11 human  
partners:{Q16836;O43347;Q14686;Q96PK6;Q9Y6X2;P11831;Q96T76;P31749;P14317;P35573;Q14192}
- 21509 [Cluster 1956]GO:0016032+P biological\_process [name] viral reproduction [def] "The process in which a virus reproduces. Usually, this is by infection of a host cell, replication of the viral genome, and assembly of progeny virus particles. In some cases the viral genetic material may integrate into the host genome and only subsequently, under particular circumstances, 'complete' its life cycle." [GOC
- 21510 Pathogen[ Q2Q067] interacts with 299 human  
partners:{Q14974;P61313;Q96EE3;Q99460;P52434;Q92750;P62701;O75832;P48556;O94973;Q9BUG6;P18754;P47914;P52948;P40306;Q93034;Q12769;P46779;Q9Y6Q5;P17029;P55036;Q10567;Q9BR0;Q96HA1;A6NJL1;P20226;P56377;Q9GZW5;Q16594;O43747;O60304;P49790;Q95782;Q8N0Y2;Q9NPB6;O00267;Q02543;P30419;O00231;P26373;O00233;P49792;P62750;Q13889;P10073;P62273;A6NGD5;P51665;O75694;P62826;Q99816;Q6VY07;P15880;P40429;Q8NBB4;P28072;P49910;P46782;Q96IT1;Q15697;P35268;P78406;P19388;Q8IWX7;P52435;P22090;P46778;Q9P0L1;P51815;A5LHX3;Q99684;P62888;P32780;P32969;Q6R2W3;Q9H4T2;P62277;Q99567;Q8N1F7;P18615;O14709;P30876;P19387;P62241;Q15542;O15535;Q13200;Q8TBC5;P61218;P62244;P05387;Q92759;P25787;P62861;P52657;P42766;Q06323;Q7Z3B4;Q16670;Q96N95;Q9Y5A6;P05386;P17040;Q8NFH4;P0CG00;Q96JS3;P12270;O60563;Q9UNX3;O75531;P30050;P63010;Q96PC3;O43148;Q53GI3;P28065;Q12962;O14818;P18077;P62891;Q9Y5Z7;P29084;Q96CW1;Q9Y297;P61927;P39023;Q9UL58;Q13137;P62487;P62081;P61247;O14980;P55199;P61254;P62249;Q63HK3;P62280;Q14997;P83731;Q9BW27;Q6P9G9;P51948;P60900;Q8TEM1;P17022;Q9UL46;P61289;Q96SZ4;P62263;Q15370;Q8NF99;P61966;P60866;P62906;A5D8V6;Q96GC6;Q02878;P46777;P28062;Q9BVL2;P62899;Q15543;P49848;P08708;P50750;Q9UNM6;P08865;Q9Y5B0;Q07020;Q15544;P62913;P25788;O00268;P62269;Q13426;Q92530;Q9UKX7;P50613;P62424;P25786;P62917;P59923;Q9NRG9;P62829;Q969J2;Q16514;Q9Y2L8;P46783;Q8NFH3;Q9BXS5;O14771;P13984;Q9UK41;Q3MJ62;P12956;O75475;P36578;Q15369;P62857;Q16401;P62875;P24928;P37198;O00232;Q92621;P62847;P49207;P23193;Q9H9H4;Q9HBT7;P23396;Q09161;P28074;P25789;O15504;Q8IXH7;Q6NSZ9;P28698;Q9H3P2;P0CG47;P57740;P63173;P18621;Q9UNY5;P52298;P52655;P20618;P17096;P35269;Q9GZU2;P0CG48;P29083;Q95125;O60583;P28070;P39019;Q8WUM0;P28066;P63000;Q92670;P61353;P63272;P21675;P43487;P53803;Q99436;Q8TAA3;P13010;Q14241;P62266;P42677;Q9Y3U8;P63220;P62841;Q9Y5B9;P83881;P62987;O43242;Q9NWS9;P49721;P49720;O43309;O14978;P50914;P46776;P57086;Q92556;P35658;P62854;Q9HC16;P62753;P05388;Q8NFH5;Q15776;P52294;Q86W11;P63208;P18124;P62851;P25398;P62937;P62877;Q96LW9;P62910;Q8NEZ2;Q92901;P46781;P27635;Q13888;Q5SRE5;P61513;P17028;P51946;Q8WX92;Q00403;Q08945;P62945;Q8TF39;P62979}
- 21511 Pathogen[ P0C214] interacts with 301 human  
partners:{P62861;P84098;O00268;Q14997;Q96CW1;P61247;P51665;P51946;Q8WX92;P25789;Q96LW9;P63000;Q09161;P15880;P55036;P62081;P42766;Q15697;A6NGD5;Q9Y5Z7;P62913;P22090;Q8NFH5;Q92901;P28062;P62249;Q9P0L1;Q63HK3;P62899;A5LHX3;Q6R2W3;P62854;P30876;Q9Y5A6;P28065;P39019;P62263;Q9UI12;Q8IWX7;P52657;P13010;P21675;O15535;P53803;P62273;P52655;P35269;P60750;P22396;P18077;Q8TBC5;Q9GZU2;O00267;P50613;P43487;P05388;Q8TEM1;P29084;P62847;O14818;Q8N0Y2;P62829;P26373;P78406;P52435;P57740;Q92750;Q9UNY5;P17022;P27635;Q99567;O43242;P46778;P63208;Q9UL58;P17096;O95125;Q8N1F7;O14709;P17029;O75694;Q00403;P61513;Q12962;Q96EE3;P83881;P48556;Q3MJ62;P61218;P49792;Q9UKX7;P40306;Q93034;P62701;P49207;Q15370;P63220;O14771;P08865;P32969;Q9UK41;Q02543;Q13200;P62266;Q9Y297;P62877;O60551;Q96SZ4;Q43148;Q16594;O00232;Q15542;P62277;Q53GI3;P50914;P57086;P46779;P28698;Q9NWS9;Q9BRR0;P63010;Q99460;P52298;Q10567;P28066;O75832;Q13137;Q9HC16;P62487;P40429;P47914;Q9NPB6;P49790;P63173;O14980;P37198;Q96IT1;Q13426;Q9BW27;P46783;P52294;P51948;P49720;P28074;Q8NF99;P62280;Q9UNX3;Q9GZW5;P0CG48;Q9UL46;Q9Y3U8;P56377;P30050;Q96N95;Q9NRG9;Q8TF39;P62753;P62910;P62891;Q15369;Q6VY07;P35658;Q92556;P55199;O60583;P63272;Q15544;P17028;P49848;P25788;P51815;Q15B69;Q9Y6Q5;P62913;P25788;Q9GZW5;P53680;P28074;P25786;P62917;P59923;Q9NRG9;P62829;Q969J2;Q16514;Q9Y2L8;P46783;Q8NFH3;Q9BXS5;O14771;P13984;Q9UK41;Q3MJ62;P12956;O75475;P36578;Q15369;P62857;Q16401;P62875;P24928;P37198;O00232;Q92621;P62847;P49207;P23193;Q9H9H4;Q9HBT7;P23396;Q09161;P28074;P25789;O15504;Q8IXH7;Q6NSZ9;P28698;Q9H3P2;P0CG47;P57740;P63173;P18621;Q9UNY5;P52298;P52655;P20618;P17096;P35269;Q9GZU2;P0CG48;P29083;Q95125;O60583;P28070;P39019;Q8WUM0;P28066;P63000;Q92670;P61353;P63272;P21675;P43487;P53803;Q99436;Q8TAA3;P13010;Q14241;P62266;P42677;Q9Y3U8;P63220;P62841;Q9Y5B9;P83881;P62987;O43242;Q9NWS9;P49721;P49720;O43309;O14978;P50914;P46776;P57086;Q92556;P35658;P62854;Q9HC16;P62753;P05388;Q8NFH5;Q15776;P52294;Q86W11;P63208;P18124;P62851;P25398;P62937;P62877;Q96LW9;P62910;Q8NEZ2;Q92901;P46781;P27635;Q13888;Q5SRE5;P61513;P17028;P51946;Q8WX92;Q00403;Q08945;P62945;Q8TF39;P62979}
- 21512 Pathogen[ P03346] interacts with 301 human  
partners:{Q8TEM1;Q6R2W3;Q96G01;P25787;Q9NWS9;P05387;P46779;P61966;Q15542;P28070;Q86XT2;Q15370;Q8NFH4;Q8WUM0;Q8TF39;Q09161;P49910;P63173;Q3MJ62;P25789;P55036;P62917;A6NGD5;O15535;P62249;P62913;P52434;P12270;P12956;Q9BRR0;P62861;P62277;Q02878;Q8IXH7;Q12769;Q99460;Q96EE3;Q99567;P63010;Q9UL46;O75531;A5D8V6;P62280;P39023;Q9UL58;Q9Y2L8;Q9UKX7;Q9Y5Z7;O43747;P62987;O43309;P61927;Q9UNX3;P28072;O75694;P62857;P25788;Q9GZW5;P53680;P28074;P49721;Q96SZ4;O60563;Q9NRG9;P78406;P57740;P56377;O14818;P43487;P46778;P49207;Q99436;O14978;Q13426;Q9BVL2;P62937;Q13888;Q8NF99;P0CG48;P62266;Q8NEZ2;Q9BXS5;O75475;Q9H3P2;Q8N1F7;P13010;Q16401;O14709;A5LHX3;P53803;P17022;P61254;Q8TBC5;O95782;Q99816;P28698;P61218;O00268;Q9NPB6;Q9P0L1;P28062;P18754;Q8NFH5;P62424;P62273;Q9UK41;P837

31;P60866;P29084;Q92670;P37198;P20618;P62899;Q8NFH3;P63272;P35658;P52298;O00232;Q8NB  
B4;P17096;Q53GI3;P35268;A6NJL1;Q92750;Q08945;Q93034;P62826;Q9H4T2;Q6P9G9;P62891;P087  
08;Q13889;Q96LW9;P20226;Q5SRE5;O75832;Q9Y5B0;P46782;Q13137;P61353;O00233;P62487;P628  
77;P62854;P19388;Q9Y3U8;Q92621;O60583;Q8N0Y2;Q10567;P47914;Q9BW27;O43148;O14980;P088  
65;Q9UNY5;P13984;O95125;P61313;P25398;Q8IYW8;Q99684;P49720;P28065;P52435;P49848;Q96C  
W1;P61513;Q9H9H4;P05388;P51946;Q96PC3;P62269;P60900;O60304;P52657;Q05750;Q02543;P518  
15;P624766;P26081;Q9Y5B9;Q96N95;P25786;P61247;O00231;P17029;P36954;Q16514;P10073;P186  
21;Q9BUG6;P46781;P84098;Q63HK3;P15880;P63208;Q12962;P61289;P50914;O00267;P62829;P629  
79;P28066;Q9UNM6;P17028;Q8WX92;P39019;Q92759;P55199;P23396;P42677;P62750;P62701;Q8TA  
A3;P21675;P30050;P30876;Q15369;P35269;P62910;P0CG47;P36578;O14771;Q96JS3;Q9HBT7;Q9GZ  
U2;P62847;Q14997;P49790;Q13200;P48556;P62851;P22090;Q9Y5A6;P17040;P59923;P24928;P231  
93;P51665;Q96IT1;P46777;P29083;Q969J2;Q96HA1;Q00403;Q07020;P62263;Q15697;P62841;P838  
81;Q15776;Q9Y6Q5;Q06323;P05386;P18077;Q96GC6;O94973;Q9Y297;P46776;P62241;P52655;Q925  
30;Q16670;Q6VY07;Q7Z3B4;Q92556;P0CG00;P62753;P63000;P51948;O43242;Q15544;P62945;P522  
94;P32780;Q6NSZ9;P18615;Q92901;P32969;P26373;P18124;P40306;P40429;P62875;P27635;P193  
87;Q86W11;P46783;O15504;Q14241;P62906;P49792;P62244;P57086;Q14974;Q16594;P62888;Q155  
43;P63220;P52948}

21513 Pathogen[ Q85601] interacts with 298 human

partners: {Q8TEM1;Q6R2W3;P51946;P46783;P32969;P52657;P28066;Q99816;Q9UNM6;P61513;P609  
00;Q5SRE5;Q969J2;Q15542;P28698;Q63HK3;P26373;P0CG00;P51815;P62857;P36954;Q15370;P622  
44;Q86W11;Q8TF39;P62913;P17040;Q3MJ62;P55036;P60900;Q9UNY5;O15535;Q8NBB4;O43148;P628  
54;Q9GZW5;P17096;P62081;Q8NFH4;P61353;P62891;Q8NFH3;P46776;P17028;O60563;P18077;P257  
87;Q96EE3;P61313;P05388;P50750;Q96CW1;Q9UL58;P61289;Q9Y2L8;Q12769;Q9HBT7;P63173;P257  
88;Q13888;Q9BXS5;Q9HC16;P78406;P57740;P62877;P43487;Q9NWS9;P23396;Q9NRG9;P56377;P622  
73;P46778;Q6NSZ9;P62829;O75832;P30050;O14978;Q13426;P61289;Q14241;O60583;P62753;Q9BUG6;P276  
35;P62826;Q8WUM0;Q9H3P2;Q8N1F7;O14709;P63000;P15880;P53803;P17022;P83881;Q9H9H4;Q070  
20;O43747;P61218;Q8NF99;O00268;P39019;Q9H4T2;Q9Y3U8;Q9Y5B9;P62701;P62241;P62424;Q157  
76;P0CG48;P83731;Q8IYW8;P51948;P18615;P62899;O60551;Q16594;P12270;P62945;Q10567;O603  
04;P59923;Q53GI3;O75694;P62263;P62861;O95125;Q02878;Q09161;O15504;Q14974;Q8WX92;P390  
23;P61254;P25789;Q13137;O00233;P62487;P19388;P29084;P49207;P20618;P62910;Q9GZU2;Q9BW  
27;A6NGD5;P62249;A6NJL1;P62280;Q9UK41;P13984;P63208;Q9Y5A6;P47914;Q9P0L1;P84098;Q926  
21;P40306;P08708;Q92759;Q9BRR0;P32780;Q6VY07;Q9Y5B0;P49720;P52435;P49848;P42766;Q96G  
01;P28062;P49721;P62269;P35269;P52948;O14771;Q96GC6;Q96N95;P25786;Q9UKX7;P17029;P290  
83;Q16514;P18621;P05387;P53680;P57086;Q15369;P28072;Q8NFH5;Q9UNX3;Q00403;Q9NPB6;Q132  
00;P62277;P50613;P28065;O00267;P35268;P23193;O14980;Q99684;P62979;O43309;O94973;Q994  
36;P62847;Q96PC3;P28070;P55199;P35658;P42677;P63220;Q8TAA3;Q9UL46;Q9Y5Z7;Q99460;O002  
31;P0CG47;Q99567;Q8IXH7;Q08945;Q92750;P18754;P21675;P46782;Q6P9G9;Q12962;P19387;P632  
72;P48556;P46779;P52655;P62750;Q92670;P62851;P63010;P62841;P24928;P28074;P49792;P522  
98;Q92530;Q96IT1;P30876;P62987;P52434;P61966;P22090;Q15543;Q9BVL2;Q96HA1;A5LHX3;Q156  
97;P61927;Q9Y6Q5;O75475;P30419;P36578;P19447;Q06323;Q96JS3;Q8NEZ2;P05386;Q7Z7L9;O755  
31;P08865;Q8N0Y2;P61247;O14818;Q7Z3B4;P62937;Q8TBC5;P52294;P49790;Q15544;P46777;P629  
17;Q16401;Q92901;P18124;P46781;P62875;Q93034;P25398;P60866;Q02543;P13010;P12956;Q96L  
W9;P20226;P62906;Q16670;P10073;P50914;P49910;P62266;P40429;O95782;P62888;A5D8V6}

21514 Pathogen[ P14079] interacts with 303 human

partners: {Q969J2;Q8NFH5;Q6VY07;Q9Y3U8;Q9H9H4;P27635;P84098;P46779;P28065;Q96CW1;Q994  
36;Q9Y5B9;P62875;P62333;Q9BW27;P55199;Q96HA1;P26373;Q53GI3;Q9HBT7;P48556;Q08945;Q9Y6  
Q5;P61966;P23396;Q9BXS5;P57086;O95125;Q14241;P0CG48;P40429;O14771;P10073;Q7Z7L9;Q9UN  
Y5;P19387;Q9Y5B0;P35269;Q15776;P51946;P18621;O15535;Q16594;Q9GZU2;P83881;Q8IXH7;Q6P9  
G9;O43309;P62487;Q9UNX3;P46781;P17022;P57740;P83731;Q8N1F7;P61513;P62847;P13010;P403  
06;P62753;Q86XT2;P52434;P52298;P55036;P35658;P28074;P39023;O00232;P62273;Q92556;Q105  
67;Q63HK3;P25398;O75475;O15514;P51815;P17096;P30876;P56377;Q92621;P52294;P61218;Q3MJ  
62;Q99684;Q8TEM1;Q9H3P2;P18077;P49720;O00487;P25787;Q8N0Y2;Q9HC16;O75832;P46783;Q9Y5  
A6;P61254;P50914;Q9P0L1;A5LHX3;Q13889;P53803;P62937;P62979;P18615;O00233;P62841;P181  
24;A6NGD5;P35998;Q96SZ4;P42766;Q8TBC5;P61289;P29084;P62266;Q8IYW8;P46782;P62877;P629  
87;Q16670;P62241;P51665;Q9UKX7;P20618;P32969;P22090;Q9NWS9;Q9BRR0;P28698;P62829;Q9BV  
L2;Q9UL58;Q8TAA3;P60866;Q8NBB4;O15504;O43148;Q92670;P50613;P62854;Q9Y5Z7;Q13888;Q070  
20;P39019;P12956;P63220;Q8WUM0;Q14997;P49207;P19388;P62244;Q00403;O95782;P12270;Q8TF  
39;Q15543;P28062;P60900;P62263;Q12962;Q02543;P62424;Q92901;P62277;Q9H4T2;P62750;P629  
10;P63173;O14709;P46776;P49848;Q99567;Q9UNM6;P52435;Q93034;P08708;P63272;Q14974;P170  
29;Q92750;Q6R2W3;Q99460;Q96LW9;Q15697;P36578;A5D8V6;O14978;O60551;Q8NFH3;P30419;Q153  
70;Q96EE3;Q92759;P49910;Q86W11;Q8NEZ2;P37198;O14818;P49721;P63010;P62906;Q8NAM6;Q925  
30;P49790;P47914;P62280;Q13137;P62899;P52657;Q8NF99;O94973;Q96G01;Q8N8A4;O75531;Q8WX  
92;P61353;P62081;P62945;P32780;P46777;P42677;P30050;Q9GZW5;Q8NFH4;P15880;P23193;P139  
84;P78406;Q06323;P62891;O43747;P62191;Q7Z3B4;O60583;Q9UI12;P62888;P08865;P61927;P629  
17;P0CG00;Q15008;P24928;Q15369;P46778;P62249;P43686;Q9BUG6;O43242;P62826;P25788;P170  
40;P63208;O00231;Q9Y2L8;P05386;P28066;P35268;Q9NPB6;Q9UL46;A6NJL1;P62913;Q12769;Q96P  
C3;Q99816;Q96IT1;Q16514;P05387;P61247;O00267;P0CG47;P62269;P62701;P36954;Q5SRE5;Q9NR  
G9;P61313;O75694;P53680;Q16401;Q13426;Q15542;P17980;P18754;Q96N95;O60304;P62851;P280  
72;P19447;Q09161;P05388;P29083;P49917;P21675;O00268;P52948;Q96GC6;Q96JS3;P50750;P170  
28;P62857;P62861;P51948;Q6NSZ9}

21515 Pathogen[ P03383] interacts with 284 human

partners: {Q9BVL2;Q96EE3;O15504;P42766;Q96CW1;Q8WUM0;P53803;P36578;P05388;P62266;P390  
19;P55199;Q8NBB4;P26373;Q63HK3;P56377;Q92621;P49792;Q8NFH4;P62913;P62945;P55036;Q96S  
Z4;Q15369;P63272;Q9H3P2;O43148;P13010;P62854;P29084;Q9GZW5;P17096;P40429;Q15544;P629  
87;P62891;P25398;P35269;P51948;P62280;Q07020;P25789;P62750;P17022;P60900;P05387;P622  
49;P17029;P0CG00;P62888;Q9H4T2;P62899;Q96JS3;P12270;P61927;Q13888;P46777;Q92670;P518

15;P23193;P46779;P52948;Q9BRR0;P49207;Q93034;P83731;P62424;P40306;P78406;P57740;O00233;Q10567;Q8NFH5;P18124;P46778;Q6VY07;Q92901;P62753;P52655;P62937;P42677;Q9UL58;Q8N1F7;Q15542;O14709;P63000;P61247;Q3MJ62;P49721;Q06323;Q8NEZ2;P83881;Q99816;P52434;P61218;Q6P9G9;P47914;Q08945;Q14997;Q96N95;P63208;P62917;P28698;P62273;Q8TEM1;Q9P0L1;Q9UNX3;P20618;P59923;O00267;Q6NSZ9;P30050;P84098;Q53GI3;Q12769;Q00403;P62826;P32969;Q9Y2L8;Q09161;Q6LW9;P20226;Q99567;O75832;P52657;Q13137;P62277;P62487;P18077;P63173;Q14978;Q16594;Q8IXH7;P62081;Q9BW27;P19387;O60563;A6NGD5;A6NJL1;Q9UK41;P50613;P13984;Q9UNY5;P43487;O95125;P63010;P51946;P24928;P61313;O14980;P08865;O43747;Q9GZU2;P17040;P62851;Q13426;P18754;P49848;O60304;P46782;Q9H9H4;Q9UL46;P62269;Q8NF99;Q9UNM6;P63220;P50750;Q9NPB6;Q02543;P62244;Q15697;Q02878;O00268;P25786;Q99460;O95782;Q16514;P10073;O75475;P28072;P62910;P27635;Q14974;Q92759;Q13200;Q96IT1;P28065;Q5SRE5;P62857;Q99684;P28066;P52298;P35658;P62906;Q16670;P46783;Q9Y3U8;P60866;Q96GC6;O15535;P61254;Q16401;P62979;Q8N0Y2;Q92750;O00231;Q96HA1;P0CG47;P62875;P62241;P21675;P46781;O43309;Q9NRG9;Q9HBT7;P62877;Q8IWX8;P52435;P39023;P49910;Q9Y5B0;O14771;Q15370;P0CG48;Q12962;Q9Y5A6;P28074;Q6R2W3;P62841;Q92530;P57086;P19388;P49720;Q969J2;Q8TAA3;P61289;P22090;P29083;P37198;Q9UKX7;P62701;P62829;Q15776;P30876;Q9BXS5;P62263;P28062;P62847;P35268;Q86W11;P05386;P50914;O94973;P48556;O14818;P17028;Q14241;Q7Z3B4;O60583;P62861;Q99436;P18621;P52294;Q9Y5B9;P49790;P46776;P32780;O75694;P15880;P23396;P18615;P28070;Q9BUG6;P61513;O75531;Q8TF39;Q8NFH3;Q8WX92;P12956;P25787;P08708;P25788;Q15543;P61353}

21516

Pathogen[ P03410] interacts with 312 human

partners: {Q99567;P57086;O60583;Q08945;Q14771;Q9Y6Q5;P62861;Q9Y2L8;P05386;Q7Z3B4;O43309;P28070;Q9BW27;O95782;Q02543;P61247;Q96PC3;P62241;Q96CW1;P52655;P62829;P49207;Q13137;P26373;P55036;P61513;P0CG48;Q14974;P19387;P62899;Q15697;Q13889;P17040;P18615;Q9BXS5;P62244;P36954;Q9H4T2;Q9H3P2;O00268;P53680;Q3MJ62;P62913;Q86XT2;Q9UKX7;Q15543;P25786;P20963;Q9H9H4;Q02878;Q15008;P63000;Q92901;Q96SZ4;Q16401;O60551;Q92750;P15880;O00267;Q9Y5B9;P63272;P46777;O95125;P46776;P62841;P52294;Q92670;Q8NFH4;Q92050;P24928;Q15776;P60900;O43747;P10073;P05388;Q12962;P21675;Q9GZU2;Q14997;P29083;P35998;P46781;Q99460;P18124;Q5SRE5;P05141;P52948;Q8NF99;O00233;O15504;P51946;Q8NBB4;Q10567;O00232;Q8TF39;P62269;Q07020;P63220;P62910;Q96GC6;P62847;P62906;O75694;Q8TAA3;P17096;Q96N95;Q6NSZ9;P23396;Q9UL58;P78406;O14709;P30419;P18621;P48556;P30876;P49721;P62266;P20226;Q15370;P62249;P63173;P50914;P62280;Q99684;Q96HA1;P23193;Q53GI3;O60304;A5LHX3;P22090;P61313;P62979;Q9NWS9;P52657;O15514;P50613;Q99436;P62701;Q8N1F7;P62750;Q16670;A5D8V6;Q9BR0;P08865;P50750;P40306;O15535;Q9UNX3;Q99816;Q9HC16;Q06323;Q9BUG6;P62277;O60563;P17022;P36578;P17029;P18077;P12956;Q92556;P55199;Q6R2W3;P25398;P63208;Q8NEZ2;Q13200;P49790;Q8IXH7;Q8WX92;P62937;P25787;P61927;P84098;P29084;Q15369;P62854;P12270;P52435;P62826;P62273;Q6P9G9;P17028;Q9UNY5;P35658;P52298;P62081;Q16514;P46783;Q9P0L1;P49848;A6NGD5;Q9Y5Z7;P51815;Q8NFH5;O75531;P53803;Q9Y3U8;P43487;P28062;Q8TEM1;P51665;P62877;P19447;Q9UI12;Q96G01;Q969J2;P62875;P08708;P46782;P32969;Q00403;O14818;Q96EE3;P49910;P35269;P0CG00;Q9HBT7;Q16594;P87889;P61218;Q13426;O00231;Q9UNM6;P46779;P27635;P51948;Q9Y5B0;P25789;Q15544;P63010;Q96IT1;Q13888;A6NJL1;P52434;P62987;Q8WUM0;P28698;Q7Z7L9;P13010;O14978;P59923;P13984;P62857;Q15542;Q9NPB6;P62487;P62263;P62424;P62888;P61254;Q09161;P46778;P28072;O43148;P62945;P05387;Q8TBC5;P42766;Q63HK3;O75475;Q96LW9;P18754;P39019;P47914;P40429;P57740;P39023;P25788;Q12769;Q96JS3;P62917;P62851;P83731;P61966;Q6VY07;Q9NRG9;P19388;P28066;P35268;Q14241;P32780;Q8NFH3;P61353;Q93034;P62891;Q9Y5A6;P28065;Q8BVL2;O43242;O94973;P56377;P0CG47;Q92759;Q92621;P62753;Q9GZU2;Q8N8A4;P17980;O75832;O14980;P20618;Q86W11;P49792;Q9UL46;P28074;P61289;P83881;P60866;P42677;Q8IWX8;Q8N0Y2}

21517

Pathogen[ P14075] interacts with 280 human

partners: {P17029;P42766;P49207;P51815;P62857;P46781;P63220;P32969;Q12962;Q09161;P55036;P25788;P42677;P13984;Q9Y5A6;Q969J2;P62913;P22090;Q9GZU2;Q92759;P12956;Q02878;P28066;P21675;P62277;P52657;Q96JS3;O94973;P62851;Q15542;P18615;Q06323;O75832;Q93034;Q96CW1;O75475;P08865;Q8TAA3;Q15697;P60900;Q8NBB4;Q08945;P62244;P30876;Q9GZU5;O00233;P08708;Q96SZ4;Q9UL46;P78406;P57740;Q00403;P43487;P57086;P49720;P61254;O60563;Q9Y5B0;P46778;P29083;P50613;P59923;Q14241;P28698;Q9HBT7;P49792;P17096;Q8N1F7;O14709;P05388;P29084;P83881;P19388;P61218;P50750;O60583;P46777;Q96IT1;Q9UKX7;Q9Y3U8;P62249;Q15544;Q9UK41;Q13200;P48556;P19387;Q16401;P62081;P20226;Q9UL58;P62750;P18621;P35658;Q9BRR0;P12270;Q02543;Q96N95;P28070;P18124;Q9UNX3;P25398;Q53GI3;Q86W11;Q92621;Q16594;P49721;Q8NEZ2;Q92750;P17040;O00231;Q16670;Q9H9H4;Q13137;P62487;Q92530;P63208;Q96HA1;O14980;P63173;Q9BW27;P30050;P52294;P0CG48;P62979;Q92670;P83731;P84098;A6NGD5;P28062;Q15370;P28074;P23193;Q9UNY5;P61247;Q9P0L1;P62753;P46782;P62891;P62861;Q13889;Q99684;P28065;P18077;Q9Y5B9;Q8TEM1;P49848;P46779;P62917;P39023;P50914;P24928;P62269;P62847;P62910;P62273;O95782;P0CG00;P35269;Q96EE3;P37198;P40429;P23396;P62241;P52655;P25786;Q5SRE5;P15880;P62826;O14818;Q16514;Q6R2W3;P62987;O43747;P28072;O14978;P62841;P36578;P62266;Q9Y2L8;Q13426;P17028;P51946;P63000;Q14997;P61513;P32780;P28070;P55199;P61313;Q8NF99;P27635;Q8NFH3;O00268;P63010;P62888;Q92901;P0CG47;P62937;O15504;P25787;Q96LW9;P35268;P18754;Q6P9G9;Q3MJ62;Q8TF39;P62945;Q99567;P56377;P46776;Q12769;Q96GC6;O60304;P17022;P20618;O43148;Q9BXS5;Q9H3P2;Q9NPB6;P13010;P46783;Q14974;O95125;P62701;Q9BVL2;P49790;Q99816;O43309;P62875;P62899;Q8WUM0;P47914;Q8IXH7;Q9UNM6;P62906;P61289;P05386;O00267;P40306;P61353;P39019;Q15369;P62424;Q99436;P49910;O75694;Q9NRG9;P52434;Q8N0Y2;Q63HK3;Q7Z3B4;Q8NFH4;P62829;P62280;Q10567;P63272;Q15776;Q07020;P10073;Q8NFH5;P62263;P62854;Q6VY07;P60866;Q8IWX8;P26373;P62877;P05387;P52948;P51948;P52298;O75531;Q8WX92;P52435;O14771;Q9BUG6;P53803;Q15543;P25789;P61927;Q13888}

21518

Pathogen[ P0C206] interacts with 306 human

partners: {P61289;P28698;Q96EE3;P53680;P40429;Q86W11;P61313;P63010;Q99436;P28062;Q9UNM6;Q92621;P0CG48;Q9GZU5;O43309;P62875;P62877;Q8IXH7;P13010;P27635;Q63HK3;O75832;P23193;O94973;P18124;Q8NEZ2;P49790;Q9BUG6;P52298;Q92556;Q16514;Q9GZU2;P62854;P40306;Q5SR

E5;P28065;Q14997;Q15543;Q8NFH5;Q9NRG9;P49848;Q9Y6Q5;P49207;P36954;P55036;P50750;A6NGD5;P62081;P20226;Q09161;O43747;Q15544;P30050;P25786;Q10567;P25788;P18754;P49910;P30419;Q96N95;P62241;Q15697;P62244;P25787;P50914;Q7Z3B4;P08865;P62750;Q06323;P18621;P52657;P46781;P62266;Q02543;P59923;P52655;Q9UL58;P61966;P49720;P19388;P61218;Q14974;Q9H4T2;O00268;Q96HA1;Q07020;Q13137;P83881;P46778;P10073;Q9Y5Z7;P62263;O00232;Q969J2;P62273;P57086;P20670;P60900;Q02878;Q9Y5B9;Q8N0Y2;P62282;Q99816;P62280;Q99816;P62280;Q6R2W3;P62857;P62851;P29084;O43242;P62910;Q3MJ62;Q14241;O95125;P46782;A5LHX3;P13984;P61247;Q9UK41;O75475;Q9H9H4;P19447;Q9HBT7;P18077;A6NJL1;Q6NSZ9;P62913;P61927;P25789;P17022;P61353;P17029;P62888;O60304;Q8WUM0;Q16670;Q9NWS9;O75531;P49792;P36578;P53803;Q8TEML;Q92750;Q8NF99;Q9UKX7;P62861;P49917;O15514;P35269;Q9Y5B0;P19387;Q13888;A5D8V6;Q9BXS5;Q6VY07;P50613;P35268;P23396;P39023;P63000;Q9UNY5;P20618;P32969;P43487;P63208;Q13200;Q8TA A3;P18615;P62701;P28070;P29083;Q13426;O75694;P05386;Q86XT2;P22090;Q9UI12;Q9Y2L8;P84098;P62945;Q99460;Q96CW1;Q9P0L1;P26373;P46777;P05388;P62979;Q8TBC5;Q92759;Q96IT1;O14771;Q15370;P28066;Q9NPNB6;P62899;P17028;Q96GC6;Q6P9G9;P83731;O00267;P39019;Q92901;P05387;O14818;P46783;Q9H3P2;Q9Y5A6;P42766;Q8IYW8;P60866;P52435;O15535;Q8TF39;P62487;O95782;O14709;P62841;Q99567;P32780;P0CG47;Q99684;O60551;Q15542;P17096;Q8NFH4;P28072;Q7Z7L9;Q9UNX3;Q13889;Q9BRR0;P61513;Q96JS3;Q8WX92;Q96LW9;P78406;P17040;P28074;P62277;Q53GI3;Q9HC16;P46776;P51815;Q92530;Q12962;P24928;P62906;O15504;P49721;P63173;P55199;Q12769;Q93034;Q8NBB4;P62987;O60583;P62891;P62269;Q96SZ4;P62753;P87889;P46779;Q00403;Q9UL46;Q15776;Q8NFH3;P52294;P63220;P0CG00;Q96PC3;O60563;P15880;P12956;Q8N1F7;O43148;P25398;P08708;Q15369;Q08945;P62937;O00233;P47914;P48556;P35658;P62847;O14978;Q16401;P61254;P52434;Q9BW27;Q9BVL2;P56377;P21675;O00231;P51946;P63272;P42677;P62829;P12270;P51948;Q96G01;Q16594;P62249;P62424;Q9Y3U8;P30876;P62917}

21519 Pathogen[ P03363] interacts with 250 human partners: {P62913;Q9Y5A6;Q9P0L1;P12956;Q99684;P18621;P05386;Q7Z3B4;P62750;Q969J2;P23396;P28698;P42677;P63173;P08865;P29083;P29084;P62937;Q9Y5B0;Q15370;O14978;Q86W11;P62847;P18077;Q5SRE5;O14771;P05387;P49848;P12270;Q6NSZ9;P19388;P84098;P42766;Q96JS3;Q8NFH4;P13984;P62249;O60563;P05388;O43747;P36578;Q9BRR0;P55199;P62753;Q8WX92;Q92530;P62081;P62910;P30876;P13010;P0CG00;Q13888;Q8NFH3;P61513;P46776;P32780;O14980;Q92759;Q12769;P19387;P61254;P62273;P61218;Q16514;P32969;Q92901;P46778;P51946;P61927;P62891;Q8NBB4;Q15776;A6NGD5;Q9Y2L8;Q9NPNB6;P61353;P24928;O75475;P61289;O00268;Q9UKX7;O00267;Q8IYW8;Q96GC6;P08708;O43309;P17028;P15880;Q15369;P59923;Q9NWS9;P57086;Q9BUG6;P63000;Q9BXS5;Q9UNY5;Q9GZM5;Q8IXH7;O94973;Q6VY07;P18615;Q8TBC5;P52657;P26373;P35269;P17029;P83881;Q12962;Q00403;Q9NRG9;P22090;P62861;P62841;Q9Y5Z7;Q8WUM0;Q9UNX3;Q9BVL2;Q99567;Q96LW9;Q8TF39;P30050;Q13426;O60583;Q9H4T2;P62829;Q15544;P62877;Q9GZU2;Q9Y5B9;P46782;P35268;Q14241;Q9HBT7;P17096;Q9H3P2;P43487;O14709;P46781;P50914;Q16670;Q9UK41;P17022;Q63HK3;P63010;P63220;P61313;Q96HA1;Q92556;P39019;P49792;Q15542;P52298;O43148;P35658;Q96IT1;P46779;Q02543;P46777;P62987;Q14974;Q92750;P25398;O75694;P49790;Q96SZ4;Q15697;O95125;P62487;P57740;P21675;P23193;P83731;P62851;P62280;O95782;Q9Y3U8;P62888;P20226;P49910;P52655;Q9UL58;Q8NEZ2;P63272;P50750;Q8N945;P62244;P62277;O75531;P62906;P62266;P78406;P62945;O60304;P49207;P62241;Q53GI3;P62424;Q99816;P52948;P60866;P61247;Q93034;Q96N95;P62899;P62857;O15504;Q02878;Q07020;P39023;P37198;P18754;Q15543;P53803;P52435;P17040;P62854;P62826;P52434;Q9H9H4;Q8N1F7;P62917;Q13137;Q92621;P51815;Q3MJ62;A6NJL1;Q8NFH5;Q6P9G9;Q6R2W3;P18124;P40429;P27635;P63208;P62263;P47914;P62701;Q10567;Q9BW27;P10073;Q8NF99;P62269;O15535;Q96CW1;Q09161;Q8N0Y2;P46783;Q16594;P52294;A5D8V6}

21520 [Cluster 1957]GO:0008090+P biological\_process [name] retrograde axon cargo transport [def] "The directed movement of organelles or molecules along microtubules from the cell periphery toward the cell body in nerve cell axons." [ISBN

21521 Pathogen[ Q2Q067] interacts with 1 human partners: {P07196}

21522 Pathogen[ P0C214] interacts with 2 human partners: {Q8TDB4;P07196}

21523 Pathogen[ P03346] interacts with 2 human partners: {P07196;Q8TDB4}

21524 Pathogen[ Q85601] interacts with 3 human partners: {P07196;Q8TDB4;Q9GZM8}

21525 Pathogen[ P14079] interacts with 3 human partners: {P07196;Q8TDB4;Q9GZM8}

21526 Pathogen[ P03383] interacts with 2 human partners: {Q8TDB4;P07196}

21527 Pathogen[ P03410] interacts with 3 human partners: {Q9GZM8;P07196;Q8TDB4}

21528 Pathogen[ P14075] interacts with 2 human partners: {Q8TDB4;P07196}

21529 Pathogen[ P0C206] interacts with 3 human partners: {P07196;Q9GZM8;Q8TDB4}

21530 Pathogen[ P03363] interacts with 1 human partners: {P07196}

21531 [Cluster 1958]GO:0030178+P biological\_process [name] negative regulation of Wnt receptor signaling pathway [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of Wnt receptor signaling pathway activity." [GOC

21532 Pathogen[ Q2Q067] interacts with 12 human partners: {Q14526;P24385;Q93074;O14907;Q9NZC7;Q9Y3M2;Q9NYF0;Q99966;Q99750;Q9NSA3;Q04724;Q9HCK8}

21533 Pathogen[ P0C214] interacts with 12 human partners: {Q14526;Q93074;O14907;P24385;Q04724;Q99750;Q9NZC7;Q9NSA3;Q99966;Q9Y3M2;Q9HCK8;Q9NYF0}

21534 Pathogen[ P03346] interacts with 18 human partners: {Q99966;P24385;Q9H2H0;Q9Y3M2;Q13322;Q93074;Q14526;Q9NSA3;Q9NZC7;Q04724;Q9HCK8;Q99750;O14907;Q9UGU5;Q9NYF0;P56915;O95343;Q9HBU1}

21535 Pathogen[ Q85601] interacts with 12 human partners: {Q9NZC7;P24385;Q04724;Q9Y3M2;Q99966;Q9NYF0;Q14526;Q99750;O14907;Q9HCK8;Q9NSA3;Q93074}

21536 Pathogen[ P14079] interacts with 10 human partners: {Q99966;O14907;Q96B18;Q9NZC7;Q9HCK8;Q04724;Q9Y3M2;Q93074;Q99750;Q9NYF0}

21537 Pathogen[ P03383] interacts with 10 human

21538 partners:{Q14526;P24385;Q04724;Q93074;Q9NSA3;Q9Y3M2;Q9HCK8;Q9NYF0;Q99750;O14907}  
Pathogen[ P03410] interacts with 14 human  
partners:{O14960;Q14526;Q9NSA3;Q9Y3M2;Q9NZC7;Q96B18;Q04724;P24385;O14907;Q9HCK8;Q9NYF0;Q93074;Q99750;Q99966}

21539 Pathogen[ P14075] interacts with 10 human  
partners:{Q14526;Q93074;Q9NSA3;Q9HCK8;O14907;Q99750;Q04724;P24385;Q9Y3M2;Q9NYF0}

21540 Pathogen[ P0C206] interacts with 13 human  
partners:{Q9HCK8;Q9NSA3;Q9H2H0;Q96B18;O14907;Q04724;Q99966;Q9NZC7;Q9NYF0;Q14526;Q93074;Q99750;P24385}

21541 Pathogen[ P03363] interacts with 13 human  
partners:{O14907;Q14526;Q99750;Q9Y3M2;Q9NYF0;Q04724;Q9NSA3;Q9HCK8;P56915;Q93074;P24385;O95343;Q9HBU1}

21542 [Cluster 1959]GO:0016331+P biological\_process [name] morphogenesis of embryonic epithelium [def] "The process in which the anatomical structures of embryonic epithelia are generated and organized." [GOC  
21543 Pathogen[ Q2Q067] interacts with 1 human partners:{Q14160}  
21544 Pathogen[ P0C214] interacts with 1 human partners:{Q14160}  
21545 Pathogen[ P03346] interacts with 1 human partners:{Q14160}  
21546 Pathogen[ Q85601] interacts with 1 human partners:{Q14160}  
21547 Pathogen[ P14079] interacts with 1 human partners:{O43294}  
21548 Pathogen[ P03383] interacts with 1 human partners:{Q14160}  
21549 Pathogen[ P03410] interacts with 2 human partners:{O43294;Q14160}  
21550 Pathogen[ P14075] interacts with 1 human partners:{Q14160}  
21551 Pathogen[ P0C206] interacts with 2 human partners:{Q14160;O43294}  
21552 Pathogen[ P03363] interacts with 1 human partners:{Q14160}

21553 [Cluster 1960]GO:0006378+P biological\_process [name] mRNA polyadenylation [def] "The enzymatic addition of a sequence of 40-200 adenylyl residues at the 3' end of a eukaryotic mRNA primary transcript." [ISBN  
21554 Pathogen[ Q2Q067] interacts with 13 human  
partners:{P33240;Q8WVC0;Q6P1J9;Q10570;Q12996;Q16630;Q05048;O43809;Q8N7H5;Q9UKF6;Q9NVV4;P11940;P51003}  
21555 Pathogen[ P0C214] interacts with 14 human  
partners:{Q12996;Q9UKF6;P51003;O43865;Q05048;P11940;Q10570;Q16630;O43809;Q6P1J9;Q8N7H5;P33240;Q8WVC0;Q9NVV4}  
21556 Pathogen[ P03346] interacts with 14 human  
partners:{Q9UKF6;P11940;Q05048;P51003;Q8WVC0;Q9NVV4;O43809;O43865;Q10570;Q12996;Q6P1J9;P33240;Q8N7H5;Q16630}  
21557 Pathogen[ Q85601] interacts with 12 human  
partners:{Q8WVC0;Q05048;Q6P1J9;O43865;P11940;Q10570;Q9NVV4;P51003;Q9UKF6;P33240;Q8N7H5;O43809}  
21558 Pathogen[ P14079] interacts with 14 human  
partners:{O43809;Q9UKF6;Q10570;P33240;Q05048;O43865;P11940;Q8WVC0;Q9NVV4;Q16630;P51003;Q12996;Q6P1J9;Q8N7H5}  
21559 Pathogen[ P03383] interacts with 11 human  
partners:{Q9NVV4;Q05048;Q6P1J9;P51003;Q10570;P11940;Q9UKF6;P33240;Q8WVC0;O43809;Q8N7H5}  
21560 Pathogen[ P03410] interacts with 14 human  
partners:{Q10570;Q8WVC0;Q12996;Q05048;P11940;Q9NVV4;P51003;Q8N7H5;O43809;P33240;Q6P1J9;Q9UKF6;Q16630;O43865}  
21561 Pathogen[ P14075] interacts with 11 human  
partners:{P51003;O43809;Q9NVV4;Q8WVC0;Q8N7H5;Q6P1J9;P11940;P33240;Q05048;Q9UKF6;Q10570}  
21562 Pathogen[ P0C206] interacts with 14 human  
partners:{P33240;Q9UKF6;P51003;O43809;O43865;Q05048;Q8N7H5;Q16630;Q8WVC0;Q12996;Q9NVV4;P11940;Q6P1J9;Q10570}  
21563 Pathogen[ P03363] interacts with 14 human  
partners:{Q9NVV4;Q10570;Q8WVC0;Q05048;Q16630;P11940;O43809;Q6P1J9;P51003;O43865;Q9UKF6;P33240;Q8N7H5;Q12996}

21564 [Cluster 1961]GO:0007141+P biological\_process [name] male meiosis I [def] "A cell cycle process comprising the steps by which a cell progresses through male meiosis I, the first meiotic division in the male germline." [GOC  
21565 Pathogen[ Q2Q067] interacts with 5 human  
partners:{Q8I WV8;O43502;Q9H160;P78396;Q58F21}  
21566 Pathogen[ P0C214] interacts with 5 human  
partners:{Q58F21;Q8I WV8;P78396;Q9H160;O43502}  
21567 Pathogen[ P03346] interacts with 7 human  
partners:{P78396;O43502;Q58F21;Q8IZU3;P51587;Q8I WV8;Q9H160}  
21568 Pathogen[ Q85601] interacts with 6 human  
partners:{O43502;P78396;Q9H160;Q58F21;P51587;Q8I WV8}  
21569 Pathogen[ P14079] interacts with 8 human  
partners:{Q5TIA1;Q8I WV8;P78396;Q58F21;P51587;Q8IZU3;O43502;Q9H160}  
21570 Pathogen[ P03383] interacts with 4 human partners:{Q8I WV8;P78396;Q9H160;Q58F21}  
21571 Pathogen[ P03410] interacts with 8 human  
partners:{Q8I WV8;P78396;O43502;P51587;Q8IZU3;Q9H160;Q58F21;Q5TIA1}  
21572 Pathogen[ P14075] interacts with 4 human partners:{P78396;Q58F21;Q9H160;Q8I WV8}  
21573 Pathogen[ P0C206] interacts with 7 human

21574 partners:{O43502;P51587;Q8IZU3;Q9H160;Q8I WV8;P78396;Q58F21}  
Pathogen[ P03363] interacts with 6 human

21575 [Cluster 1962]GO:0007204+P biological\_process [name] elevation of cytosolic calcium ion concentration [def] "Any process that increases the concentration of calcium ions in the cytosol." [GOC]  
21576 Pathogen[ Q2Q067] interacts with 2 human partners:{P25063;P62879}  
21577 Pathogen[ P0C214] interacts with 2 human partners:{P25063;P62879}  
21578 Pathogen[ P03346] interacts with 2 human partners:{P62879;P25063}  
21579 Pathogen[ Q85601] interacts with 1 human partners:{P62879}  
21580 Pathogen[ P14079] interacts with 4 human partners:{P31358;P25063;O43612;P0DJ18}  
21581 Pathogen[ P03383] interacts with 2 human partners:{P62879;P25063}  
21582 Pathogen[ P03410] interacts with 6 human  
partners:{P0DJ18;O43612;P31358;P25063;P62879;Q9NRJ3}  
21583 Pathogen[ P14075] interacts with 2 human partners:{P62879;P25063}  
21584 Pathogen[ P0C206] interacts with 2 human partners:{P62879;P25063}  
21585 Pathogen[ P03363] interacts with 1 human partners:{P62879}  
21586 [Cluster 1963]GO:0070317+P biological\_process [name] negative regulation of G0 to G1 transition [def] "A cell cycle process that stops, prevents, or reduces the rate or extent of the transition from the G0 quiescent state to the G1 phase." [GOC]  
21587 Pathogen[ Q2Q067] interacts with 1 human partners:{Q15173}  
21588 Pathogen[ P0C214] interacts with 1 human partners:{Q15173}  
21589 Pathogen[ P03346] interacts with 1 human partners:{Q15173}  
21590 Pathogen[ Q85601] interacts with 1 human partners:{Q15173}  
21591 Pathogen[ P14079] interacts with 1 human partners:{Q15173}  
21592 Pathogen[ P03383] interacts with 1 human partners:{Q15173}  
21593 Pathogen[ P03410] interacts with 1 human partners:{Q15173}  
21594 Pathogen[ P14075] interacts with 1 human partners:{Q15173}  
21595 Pathogen[ P0C206] interacts with 1 human partners:{Q15173}  
21596 Pathogen[ P03363] interacts with 1 human partners:{Q15173}  
21597 [Cluster 1964]GO:0007250+P biological\_process [name] activation of NF-kappaB-inducing kinase activity [def] "The stimulation of the activity of NF-kappaB-inducing kinase through phosphorylation at specific residues." [GOC]  
21598 Pathogen[ Q2Q067] interacts with 4 human partners:{Q9UDY8;Q12933;Q9Y6K9;O43318}  
21599 Pathogen[ P0C214] interacts with 4 human partners:{Q9Y6K9;Q9UDY8;O43318;Q12933}  
21600 Pathogen[ P03346] interacts with 4 human partners:{Q9Y6K9;Q9UDY8;Q9BWT7;O43318}  
21601 Pathogen[ Q85601] interacts with 4 human partners:{Q9UDY8;Q9Y6K9;Q12933;O43318}  
21602 Pathogen[ P14079] interacts with 2 human partners:{Q9Y6K9;Q12933}  
21603 Pathogen[ P03383] interacts with 3 human partners:{Q9Y6K9;O43318;Q12933}  
21604 Pathogen[ P03410] interacts with 4 human partners:{O43318;Q12933;Q9Y6K9;Q9BWT7}  
21605 Pathogen[ P14075] interacts with 3 human partners:{Q12933;O43318;Q9Y6K9}  
21606 Pathogen[ P0C206] interacts with 5 human  
partners:{Q9Y6K9;Q9UDY8;O43318;Q12933;Q9BWT7}  
21607 Pathogen[ P03363] interacts with 4 human partners:{Q12933;Q9Y6K9;O43318;Q9BWT7}  
21608 [Cluster 1965]GO:0042535+P biological\_process [name] positive regulation of tumor necrosis factor biosynthetic process [def] "Any process that activates or increases the frequency, rate or extent of the chemical reactions and pathways resulting in the formation of tumor necrosis factor, an inflammatory cytokine produced by macrophages/monocytes during acute inflammation and which is responsible for a diverse range of signaling events within cells, leading to necrosis or apoptosis." [GOC]  
21609 Pathogen[ Q2Q067] interacts with 1 human partners:{P04792}  
21610 Pathogen[ P0C214] interacts with 1 human partners:{P04792}  
21611 Pathogen[ P03346] interacts with 1 human partners:{P04792}  
21612 Pathogen[ Q85601] interacts with 1 human partners:{P04792}  
21613 Pathogen[ P14079] interacts with 1 human partners:{P04792}  
21614 Pathogen[ P03383] interacts with 1 human partners:{P04792}  
21615 Pathogen[ P03410] interacts with 1 human partners:{P04792}  
21616 Pathogen[ P14075] interacts with 1 human partners:{P04792}  
21617 Pathogen[ P0C206] interacts with 1 human partners:{P04792}  
21618 Pathogen[ P03363] interacts with 1 human partners:{P04792}  
21619 [Cluster 1966]GO:0035331+P biological\_process [name] negative regulation of hippo signaling cascade [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of hippo signaling." [GOC]  
21620 Pathogen[ Q2Q067] interacts with 3 human partners:{A6NIX2;Q96IF1;Q9UGP4}  
21621 Pathogen[ P0C214] interacts with 2 human partners:{Q9UGP4;A6NIX2}  
21622 Pathogen[ P03346] interacts with 3 human partners:{Q9UGP4;Q96IF1;A6NIX2}  
21623 Pathogen[ Q85601] interacts with 3 human partners:{A6NIX2;Q96IF1;Q9UGP4}  
21624 Pathogen[ P14079] interacts with 3 human partners:{Q96IF1;A6NIX2;Q9UGP4}  
21625 Pathogen[ P03383] interacts with 2 human partners:{A6NIX2;Q9UGP4}  
21626 Pathogen[ P03410] interacts with 3 human partners:{Q9UGP4;Q96IF1;A6NIX2}  
21627 Pathogen[ P14075] interacts with 2 human partners:{Q9UGP4;A6NIX2}  
21628 Pathogen[ P0C206] interacts with 3 human partners:{Q9UGP4;Q96IF1;A6NIX2}  
21629 Pathogen[ P03363] interacts with 3 human partners:{Q96IF1;Q9UGP4;A6NIX2}  
21630 [Cluster 1967]GO:0071955+P biological\_process [name] recycling endosome to Golgi transport [def] "The directed movement of substances from recycling endosomes to the Golgi." [GOC]

21631 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8IWJ2}  
21632 Pathogen[ P0C214] interacts with 1 human partners:{Q8IWJ2}  
21633 Pathogen[ P03346] interacts with 1 human partners:{Q8IWJ2}  
21634 Pathogen[ Q85601] interacts with 1 human partners:{Q8IWJ2}  
21635 Pathogen[ P14079] interacts with 1 human partners:{Q8IWJ2}  
21636 Pathogen[ P03383] interacts with 1 human partners:{Q8IWJ2}  
21637 Pathogen[ P03410] interacts with 1 human partners:{Q8IWJ2}  
21638 Pathogen[ P14075] interacts with 1 human partners:{Q8IWJ2}  
21639 Pathogen[ P0C206] interacts with 1 human partners:{Q8IWJ2}  
21640 Pathogen[ P03363] interacts with 1 human partners:{Q8IWJ2}  
21641 [Cluster 1968]GO:0006335+P biological\_process [name] DNA replication-dependent nucleosome assembly [def] "The formation of nucleosomes on newly replicated DNA, coupled to strand elongation." [GOC  
21642 Pathogen[ Q2Q067] interacts with 2 human partners:{Q13111;Q13112}  
21643 Pathogen[ P0C214] interacts with 2 human partners:{Q13112;Q13111}  
21644 Pathogen[ P03346] interacts with 2 human partners:{Q13111;Q13112}  
21645 Pathogen[ Q85601] interacts with 2 human partners:{Q13112;Q13111}  
21646 Pathogen[ P14079] interacts with 2 human partners:{Q13112;Q13111}  
21647 Pathogen[ P03383] interacts with 2 human partners:{Q13111;Q13112}  
21648 Pathogen[ P03410] interacts with 2 human partners:{Q13111;Q13112}  
21649 Pathogen[ P14075] interacts with 2 human partners:{Q13111;Q13112}  
21650 Pathogen[ P0C206] interacts with 2 human partners:{Q13112;Q13111}  
21651 Pathogen[ P03363] interacts with 2 human partners:{Q13112;Q13111}  
21652 [Cluster 1969]GO:0034332+P biological\_process [name] adherens junction organization [def] "A process that is carried out at the cellular level which results in the assembly, arrangement of constituent parts, or disassembly of an adherens junction. An adherens junction is a cell junction at which the cytoplasmic face of the plasma membrane is attached to actin filaments." [GOC  
21653 Pathogen[ Q2Q067] interacts with 3 human partners:{P15924;P60953;O60716}  
21654 Pathogen[ P0C214] interacts with 5 human partners:{P60709;O60716;P15924;P60953;P63261}  
21655 Pathogen[ P03346] interacts with 6 human partners:{P15924;O60716;P60709;P60953;P55196;Q9Y6R0}  
21656 Pathogen[ Q85601] interacts with 5 human partners:{P60709;P15924;O60716;P63261;P60953}  
21657 Pathogen[ P14079] interacts with 4 human partners:{P63261;P15924;P60709;O60716}  
21658 Pathogen[ P03383] interacts with 3 human partners:{P15924;O60716;P60953}  
21659 Pathogen[ P03410] interacts with 5 human partners:{P15924;O60716;P60953;P63261;P60709}  
21660 Pathogen[ P14075] interacts with 3 human partners:{P60953;O60716;P15924}  
21661 Pathogen[ P0C206] interacts with 6 human partners:{O60716;P60709;P55196;P63261;P60953;P15924}  
21662 Pathogen[ P03363] interacts with 6 human partners:{P60709;P15924;P63261;Q9Y6R0;P60953;O60716}  
21663 [Cluster 1970]GO:0045995+P biological\_process [name] regulation of embryonic development [def] "Any process that modulates the frequency, rate or extent of embryonic development." [GOC  
21664 Pathogen[ Q2Q067] interacts with 1 human partners:{Q16236}  
21665 Pathogen[ P0C214] interacts with 1 human partners:{Q16236}  
21666 Pathogen[ P03346] interacts with 1 human partners:{Q16236}  
21667 Pathogen[ Q85601] interacts with 1 human partners:{Q16236}  
21668 Pathogen[ P14079] interacts with 2 human partners:{Q16236;Q6IQ19}  
21669 Pathogen[ P03383] interacts with 1 human partners:{Q16236}  
21670 Pathogen[ P03410] interacts with 2 human partners:{Q16236;Q6IQ19}  
21671 Pathogen[ P14075] interacts with 2 human partners:{Q6IQ19;Q16236}  
21672 Pathogen[ P0C206] interacts with 2 human partners:{Q6IQ19;Q16236}  
21673 Pathogen[ P03363] interacts with 2 human partners:{Q16236;Q6IQ19}  
21674 [Cluster 1971]GO:0010831+P biological\_process [name] positive regulation of myotube differentiation [def] "Any process that increases the frequency, rate or extent of myotube differentiation. Myotube differentiation is the process in which a relatively unspecialized cell acquires specialized features of a myotube cell. Myotubes are multinucleated cells that are formed when proliferating myoblasts exit the cell cycle, differentiate and fuse." [GOC  
21675 Pathogen[ Q2Q067] interacts with 4 human partners:{Q92585;P10827;Q8NB12;Q6ZN01}  
21676 Pathogen[ P0C214] interacts with 4 human partners:{Q92585;Q9Y3R4;Q6ZN01;Q8NB12}  
21677 Pathogen[ P03346] interacts with 4 human partners:{Q92585;P10827;Q8NB12;Q6ZN01}  
21678 Pathogen[ Q85601] interacts with 4 human partners:{Q92585;Q8NB12;P10827;Q6ZN01}  
21679 Pathogen[ P14079] interacts with 4 human partners:{P10827;Q8NB12;Q9Y3R4;Q92585}  
21680 Pathogen[ P03383] interacts with 2 human partners:{Q92585;Q6ZN01}  
21681 Pathogen[ P03410] interacts with 4 human partners:{Q6ZN01;Q92585;Q8NB12;Q9Y3R4}  
21682 Pathogen[ P14075] interacts with 2 human partners:{Q92585;Q6ZN01}  
21683 Pathogen[ P0C206] interacts with 5 human partners:{Q9Y3R4;Q8NB12;Q6ZN01;Q92585;P10827}  
21684 Pathogen[ P03363] interacts with 3 human partners:{Q8NB12;Q6ZN01;Q92585}  
21685 [Cluster 1972]GO:0007156+P biological\_process [name] homophilic cell adhesion [def] "The attachment of an adhesion molecule in one cell to an identical molecule in an



adjacent cell." [ISBN

21686 Pathogen[ Q2Q067] interacts with 1 human partners:{Q12816}

21687 Pathogen[ P0C214] interacts with 1 human partners:{Q12816}

21688 Pathogen[ P03346] interacts with 1 human partners:{Q12816}

21689 Pathogen[ Q85601] interacts with 1 human partners:{Q12816}

21690 Pathogen[ P14079] interacts with 1 human partners:{Q12816}

21691 Pathogen[ P03383] interacts with 1 human partners:{Q12816}

21692 Pathogen[ P03410] interacts with 1 human partners:{Q12816}

21693 Pathogen[ P14075] interacts with 1 human partners:{Q12816}

21694 Pathogen[ P0C206] interacts with 1 human partners:{Q12816}

21695 Pathogen[ P03363] interacts with 1 human partners:{Q12816}

21696 [Cluster 1973]GO:0042274+P biological\_process [name] ribosomal small subunit biogenesis [def] "A cellular process that results in the biosynthesis of constituent macromolecules, assembly, and arrangement of constituent parts of a small ribosomal subunit\_ includes transport to the sites of protein synthesis." [GOC

21697 Pathogen[ Q2Q067] interacts with 12 human partners:{Q92979;P62081;P62249;P08708;Q96EU6;P62857;P78316;P62847;P39019;P63220;P62841;P62753}

21698 Pathogen[ P0C214] interacts with 12 human partners:{P62081;P62249;P39019;P62847;Q96EU6;P63220;P78316;Q92979;P62753;P62841;P62857;P08708}

21699 Pathogen[ P03346] interacts with 12 human partners:{P62249;Q92979;P62857;P08708;Q96EU6;P78316;P62081;P39019;P62847;P62841;P62753;P63220}

21700 Pathogen[ Q85601] interacts with 12 human partners:{P62857;P62081;Q92979;Q96EU6;P62753;P39019;P62249;P08708;P62847;P63220;P62841;P78316}

21701 Pathogen[ P14079] interacts with 12 human partners:{Q92979;P62847;P62753;P62841;P39019;P63220;P08708;P78316;P62081;P62249;Q96EU6;P62857}

21702 Pathogen[ P03383] interacts with 12 human partners:{P39019;P62249;P62753;P62081;P78316;P63220;P62857;Q96EU6;Q92979;P62841;P62847;P08708}

21703 Pathogen[ P03410] interacts with 12 human partners:{P78316;P62841;P63220;P62847;P62249;Q92979;P62081;P08708;Q96EU6;P62857;P39019;P62753}

21704 Pathogen[ P14075] interacts with 12 human partners:{P62857;P63220;Q92979;P08708;P62249;P62081;P78316;P62753;P62847;P62841;Q96EU6;P39019}

21705 Pathogen[ P0C206] interacts with 12 human partners:{Q96EU6;P62081;P62857;P78316;Q92979;P39019;P62841;P62753;P63220;P08708;P62847;P62249}

21706 Pathogen[ P03363] interacts with 12 human partners:{Q92979;Q96EU6;P62847;P62249;P62753;P62081;P08708;P62841;P63220;P39019;P78316;P62857}

21707 [Cluster 1974]GO:0051569+P biological\_process [name] regulation of histone H3-K4 methylation [def] "Any process that modulates the frequency, rate or extent of the covalent addition of a methyl group to the lysine at position 4 of histone H3." [GOC

21708 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8NI51}

21709 Pathogen[ P0C214] interacts with 1 human partners:{Q8NI51}

21710 Pathogen[ P03346] interacts with 1 human partners:{Q8NI51}

21711 Pathogen[ Q85601] interacts with 1 human partners:{Q8NI51}

21712 Pathogen[ P14079] interacts with 1 human partners:{Q8NI51}

21713 Pathogen[ P03383] interacts with 1 human partners:{Q8NI51}

21714 Pathogen[ P03410] interacts with 1 human partners:{Q8NI51}

21715 Pathogen[ P14075] interacts with 1 human partners:{Q8NI51}

21716 Pathogen[ P0C206] interacts with 1 human partners:{Q8NI51}

21717 Pathogen[ P03363] interacts with 1 human partners:{Q8NI51}

21718 [Cluster 1975]GO:0042417+P biological\_process [name] dopamine metabolic process [def] "The chemical reactions and pathways involving dopamine, a catecholamine neurotransmitter and a metabolic precursor of noradrenaline and adrenaline." [GOC

21719 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9Y6H5;Q16143}

21720 Pathogen[ P0C214] interacts with 2 human partners:{Q9Y6H5;Q16143}

21721 Pathogen[ P03346] interacts with 2 human partners:{Q16143;Q9Y6H5}

21722 Pathogen[ Q85601] interacts with 2 human partners:{Q9Y6H5;Q16143}

21723 Pathogen[ P14079] interacts with 2 human partners:{Q9Y6H5;Q16143}

21724 Pathogen[ P03383] interacts with 1 human partners:{Q9Y6H5}

21725 Pathogen[ P03410] interacts with 2 human partners:{Q9Y6H5;Q16143}

21726 Pathogen[ P14075] interacts with 1 human partners:{Q9Y6H5}

21727 Pathogen[ P0C206] interacts with 2 human partners:{Q16143;Q9Y6H5}

21728 Pathogen[ P03363] interacts with 2 human partners:{Q9Y6H5;Q16143}

21729 [Cluster 1976]GO:0042542+P biological\_process [name] response to hydrogen peroxide [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a hydrogen peroxide (H2O2) stimulus." [GOC

21730 Pathogen[ Q2Q067] interacts with 11 human

partners:{Q99497;Q7Z2E3;Q04206;P02511;P62714;P55212;P68871;P69905;P02489;P15407;Q9H3M7}

21731 Pathogen[ P0C214] interacts with 13 human partners:{P02489;P02511;P15407;P55212;Q9H3M7;Q04206;P69905;Q99497;Q5SWA1;P62714;P68871;Q7Z2E3;P05412}

21732 Pathogen[ P03346] interacts with 14 human partners:{P05412;P02489;Q9NS18;Q04206;Q5SWA1;P62714;P69905;P55212;P02511;Q99497;P15407;P68871;Q7Z2E3;Q9H3M7}

21733 Pathogen[ Q85601] interacts with 13 human partners:{Q99497;P69905;P02489;P62714;P15407;Q5SWA1;Q04206;P02511;P05412;P68871;Q7Z2E3;P55212;Q9H3M7}

21734 Pathogen[ P14079] interacts with 13 human partners:{Q5SWA1;P02511;Q99497;P69905;P02489;P55212;P68871;P15407;P03923;Q9H3M7;P02144;P05412;Q7Z2E3}

21735 Pathogen[ P03383] interacts with 11 human partners:{Q7Z2E3;P55212;P02511;P62714;P69905;P68871;Q5SWA1;P15407;Q9H3M7;Q04206;P05412}

21736 Pathogen[ P03410] interacts with 15 human partners:{Q04206;P62714;P02144;Q99497;Q9H3M7;Q7Z2E3;P68871;P02489;P02511;Q5SWA1;P05412;P15407;P03923;P69905;P55212}

21737 Pathogen[ P14075] interacts with 11 human partners:{P68871;Q7Z2E3;Q04206;P05412;P55212;Q5SWA1;Q9H3M7;P02511;P62714;P15407;P69905}

21738 Pathogen[ P0C206] interacts with 14 human partners:{P68871;Q9NS18;P15407;P05412;P55212;Q99497;P69905;Q04206;P62714;Q5SWA1;Q9H3M7;P02511;P02489;Q7Z2E3}

21739 Pathogen[ P03363] interacts with 10 human partners:{P69905;P62714;Q04206;P68871;Q9H3M7;P55212;Q7Z2E3;P15407;P05412;P02489}

21740 [Cluster 1977]GO:0035067+P biological\_process [name] negative regulation of histone acetylation [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the addition of an acetyl group to a histone protein." [GOC

21741 Pathogen[ Q2Q067] interacts with 4 human partners:{Q9Y3T9;Q01105;Q13363;Q15545}

21742 Pathogen[ P0C214] interacts with 4 human partners:{Q9Y3T9;Q13363;Q15545;Q01105}

21743 Pathogen[ P03346] interacts with 4 human partners:{Q01105;Q9Y3T9;Q13363;Q15545}

21744 Pathogen[ Q85601] interacts with 4 human partners:{Q01105;Q15545;Q13363;Q9Y3T9}

21745 Pathogen[ P14079] interacts with 3 human partners:{Q01105;Q9Y3T9;Q15545}

21746 Pathogen[ P03383] interacts with 4 human partners:{Q01105;Q9Y3T9;Q15545;Q13363}

21747 Pathogen[ P03410] interacts with 3 human partners:{Q01105;Q9Y3T9;Q15545}

21748 Pathogen[ P14075] interacts with 4 human partners:{Q01105;Q15545;Q9Y3T9;Q13363}

21749 Pathogen[ P0C206] interacts with 4 human partners:{Q15545;Q13363;Q01105;Q9Y3T9}

21750 Pathogen[ P03363] interacts with 4 human partners:{Q15545;Q9Y3T9;Q13363;Q01105}

21751 [Cluster 1978]GO:0090382+P biological\_process [name] phagosome maturation [def] "A process that is carried out at the cellular level which results in the arrangement of constituent parts of a phagosome within a cell. Phagosome maturation begins with endocytosis and formation of the early phagosome and ends with the formation of the hybrid organelle, the phagolysosome." [GOC

21752 Pathogen[ Q2Q067] interacts with 2 human partners:{P36543;P29474}

21753 Pathogen[ P0C214] interacts with 4 human partners:{P29474;Q16864;Q9UI12;P36543}

21754 Pathogen[ P03346] interacts with 6 human partners:{P21283;P29474;Q9Y5K8;P36543;Q93050;Q16864}

21755 Pathogen[ Q85601] interacts with 3 human partners:{Q93050;P29474;P36543}

21756 Pathogen[ P14079] interacts with 10 human partners:{P36543;Q9Y5K8;P61421;P13498;Q96LB4;Q8N8Y2;Q93050;Q9UI12;Q95670;Q16864}

21757 Pathogen[ P03383] interacts with 2 human partners:{P29474;P36543}

21758 Pathogen[ P03410] interacts with 11 human partners:{Q8N8Y2;P61421;Q93050;P29474;Q9UI12;Q96LB4;Q95670;Q16864;Q9Y5K8;Q75348;P36543}

21759 Pathogen[ P14075] interacts with 2 human partners:{P29474;P36543}

21760 Pathogen[ P0C206] interacts with 6 human partners:{P36543;Q9UI12;Q9Y5K8;Q16864;P29474;Q93050}

21761 Pathogen[ P03363] interacts with 3 human partners:{P29474;P36543;Q9Y5K8}

21762 [Cluster 1979]GO:0097056+P biological\_process [name] selenocysteinyl-tRNA(Sec) biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of selenocysteinyl-tRNA(Sec). This process occurs through the following steps

21763 Pathogen[ Q2Q067] interacts with 2 human partners:{P49591;Q9HD40}

21764 Pathogen[ P0C214] interacts with 3 human partners:{Q9NP81;P49591;Q9HD40}

21765 Pathogen[ P03346] interacts with 1 human partners:{Q9HD40}

21766 Pathogen[ Q85601] interacts with 1 human partners:{Q9HD40}

21767 Pathogen[ P14079] interacts with 3 human partners:{Q9NP81;P49591;Q9HD40}

21768 Pathogen[ P03383] interacts with 3 human partners:{Q9HD40;Q9NP81;P49591}

21769 Pathogen[ P03410] interacts with 3 human partners:{P49591;Q9HD40;Q9NP81}

21770 Pathogen[ P14075] interacts with 3 human partners:{Q9NP81;Q9HD40;P49591}

21771 Pathogen[ P0C206] interacts with 3 human partners:{Q9HD40;Q9NP81;P49591}

21772 Pathogen[ P03363] interacts with 2 human partners:{Q9HD40;P49591}

21773 [Cluster 1980]GO:0032214+P biological\_process [name] negative regulation of telomere maintenance via semi-conservative replication [def] "Any process that stops, prevents,

or reduces the frequency, rate or extent of the semi-conservative replication of telomeric DNA." [GOC

21774 Pathogen[ Q2Q067] interacts with 2 human partners:{Q15554;P54274}

21775 Pathogen[ P0C214] interacts with 2 human partners:{Q15554;P54274}

21776 Pathogen[ P03346] interacts with 2 human partners:{Q15554;P54274}

21777 Pathogen[ Q85601] interacts with 2 human partners:{Q15554;P54274}

21778 Pathogen[ P14079] interacts with 2 human partners:{P54274;Q15554}

21779 Pathogen[ P03383] interacts with 2 human partners:{Q15554;P54274}

21780 Pathogen[ P03410] interacts with 2 human partners:{Q15554;P54274}

21781 Pathogen[ P14075] interacts with 2 human partners:{Q15554;P54274}

21782 Pathogen[ P0C206] interacts with 2 human partners:{Q15554;P54274}

21783 Pathogen[ P03363] interacts with 2 human partners:{Q15554;P54274}

21784 [Cluster 1981]GO:0071391+P biological\_process [name] cellular response to estrogen stimulus [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of stimulus by an estrogen, C18 steroid hormones that can stimulate the development of female sexual characteristics." [GOC

21785 Pathogen[ Q2Q067] interacts with 2 human partners:{O15164;P50453}

21786 Pathogen[ P0C214] interacts with 2 human partners:{P50453;O15164}

21787 Pathogen[ P03346] interacts with 2 human partners:{P50453;O15164}

21788 Pathogen[ Q85601] interacts with 2 human partners:{O15164;P50453}

21789 Pathogen[ P14079] interacts with 2 human partners:{O15164;P50453}

21790 Pathogen[ P03383] interacts with 1 human partners:{P50453}

21791 Pathogen[ P03410] interacts with 1 human partners:{P50453}

21792 Pathogen[ P14075] interacts with 1 human partners:{P50453}

21793 Pathogen[ P0C206] interacts with 2 human partners:{O15164;P50453}

21794 Pathogen[ P03363] interacts with 1 human partners:{P50453}

21795 [Cluster 1982]GO:0010763+P biological\_process [name] positive regulation of fibroblast migration [def] "Any process that increases the rate, frequency or extent of fibroblast cell migration. Fibroblast cell migration is accomplished by extension and retraction of a pseudopodium." [GOC

21796 Pathogen[ Q2Q067] interacts with 1 human partners:{O95429}

21797 Pathogen[ P0C214] interacts with 1 human partners:{O95429}

21798 Pathogen[ P03346] interacts with 1 human partners:{O95429}

21799 Pathogen[ Q85601] interacts with 1 human partners:{O95429}

21800 Pathogen[ P14079] interacts with 1 human partners:{O95429}

21801 Pathogen[ P03383] interacts with 1 human partners:{O95429}

21802 Pathogen[ P03410] interacts with 1 human partners:{O95429}

21803 Pathogen[ P14075] interacts with 1 human partners:{O95429}

21804 Pathogen[ P0C206] interacts with 1 human partners:{O95429}

21805 Pathogen[ P03363] interacts with 1 human partners:{O95429}

21806 [Cluster 1983]GO:0007585+P biological\_process [name] respiratory gaseous exchange [def] "The process of gaseous exchange between an organism and its environment. In plants, microorganisms, and many small animals, air or water makes direct contact with the organism's cells or tissue fluids, and the processes of diffusion supply the organism with dioxygen (O2) and remove carbon dioxide (CO2). In larger animals the efficiency of gaseous exchange is improved by specialized respiratory organs, such as lungs and gills, which are ventilated by breathing mechanisms." [ISBN

21807 Pathogen[ Q2Q067] interacts with 7 human partners:{Q9Y5Q3;P20719;Q99608;P40426;O43711;P07738;Q9UI36}

21808 Pathogen[ P0C214] interacts with 5 human partners:{Q9Y5Q3;Q99608;Q9UI36;Q9UI09;P07738}

21809 Pathogen[ P03346] interacts with 9 human partners:{P50135;P40426;O43711;P07738;Q9Y5Q3;P20719;Q9BUZ4;Q99608;Q9UI36}

21810 Pathogen[ Q85601] interacts with 6 human partners:{Q99608;Q9Y5Q3;Q9UI36;O43711;P40426;P07738}

21811 Pathogen[ P14079] interacts with 11 human partners:{P15502;Q9Y5Q3;P50135;P10606;Q99608;Q9BUZ4;P07738;O43711;Q9UI09;P11686;Q9UI36}

21812 Pathogen[ P03383] interacts with 6 human partners:{Q9Y5Q3;Q99608;P07738;O43711;Q9UI36;P15502}

21813 Pathogen[ P03410] interacts with 11 human partners:{P40426;Q9UI36;Q9UI09;Q99608;Q9Y5Q3;P15502;P07738;P11686;O43711;P50135;P10606}

21814 Pathogen[ P14075] interacts with 6 human partners:{Q99608;Q9Y5Q3;O43711;P15502;Q9UI36;P07738}

21815 Pathogen[ P0C206] interacts with 11 human partners:{O43711;Q9Y5Q3;P15502;Q9UI09;Q9BUZ4;P40426;Q99608;P20719;P07738;Q9UI36;P50135}

21816 Pathogen[ P03363] interacts with 8 human partners:{P50135;P20719;Q99608;Q9UI36;O43711;P40426;Q9BUZ4;Q9Y5Q3}

21817 [Cluster 1984]GO:0003229+P biological\_process [name] ventricular cardiac muscle tissue development [def] "The process whose specific outcome is the progression of ventricular cardiac muscle over time, from its formation to the mature structure." [GOC

21818 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8WUF5}

21819 Pathogen[ P0C214] interacts with 1 human partners:{Q8WUF5}

21820 Pathogen[ P03346] interacts with 2 human partners:{Q8WUF5;Q99593}

21821 Pathogen[ Q85601] interacts with 1 human partners:{Q8WUF5}

21822 Pathogen[ P14079] interacts with 1 human partners:{Q8WUF5}

21823 Pathogen[ P03383] interacts with 1 human partners:{Q8WUF5}

21824 Pathogen[ P03410] interacts with 1 human partners:{Q8WUF5}

21825 Pathogen[ P14075] interacts with 1 human partners:{Q8WUF5}

21826 Pathogen[ P0C206] interacts with 1 human partners:{Q8WUF5}

21827 Pathogen[ P03363] interacts with 1 human partners:{Q8WUF5}

21828 [Cluster 1985]GO:0006278+P biological\_process [name] RNA-dependent DNA replication [def] "A DNA replication process that uses RNA as a template for RNA-dependent DNA polymerases (e.g. reverse transcriptase) that synthesize the new strands." [GOC

21829 Pathogen[ Q2Q067] interacts with 2 human partners:{O14746;P62937}

21830 Pathogen[ P0C214] interacts with 1 human partners:{O14746}

21831 Pathogen[ P03346] interacts with 2 human partners:{P62937;O14746}

21832 Pathogen[ Q85601] interacts with 2 human partners:{O14746;P62937}

21833 Pathogen[ P14079] interacts with 2 human partners:{O14746;P62937}

21834 Pathogen[ P03383] interacts with 2 human partners:{P62937;O14746}

21835 Pathogen[ P03410] interacts with 3 human partners:{O14746;P62937;P63135}

21836 Pathogen[ P14075] interacts with 2 human partners:{O14746;P62937}

21837 Pathogen[ P0C206] interacts with 2 human partners:{P62937;O14746}

21838 Pathogen[ P03363] interacts with 2 human partners:{P62937;O14746}

21839 [Cluster 1986]GO:0001844+P biological\_process [name] protein insertion into mitochondrial membrane involved in induction of apoptosis [def] "The process in which a protein is incorporated into a mitochondrial membrane, contributing to the induction of apoptosis." [GOC

21840 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13794}

21841 Pathogen[ P0C214] interacts with 1 human partners:{Q13794}

21842 Pathogen[ P03346] interacts with 2 human partners:{Q9Y371;Q13794}

21843 Pathogen[ Q85601] interacts with 1 human partners:{Q13794}

21844 Pathogen[ P14079] interacts with 2 human partners:{Q9Y371;Q13794}

21845 Pathogen[ P03383] interacts with 1 human partners:{Q13794}

21846 Pathogen[ P03410] interacts with 2 human partners:{Q13794;Q9Y371}

21847 Pathogen[ P14075] interacts with 1 human partners:{Q13794}

21848 Pathogen[ P0C206] interacts with 1 human partners:{Q13794}

21849 Pathogen[ P03363] interacts with 1 human partners:{Q13794}

21850 [Cluster 1987]GO:0010847+P biological\_process [name] regulation of chromatin assembly [def] "Any process the modulates the frequency, rate or extent of chromatin assembly. Chromatin assembly is the assembly of DNA, histone proteins, and other associated proteins into chromatin structure, beginning with the formation of the basic unit, the nucleosome, followed by organization of the nucleosomes into higher order structures, ultimately giving rise to a complex organization of specific domains within the nucleus." [GOC

21851 Pathogen[ Q2Q067] interacts with 1 human partners:{Q53GL7}

21852 Pathogen[ P0C214] interacts with 1 human partners:{Q53GL7}

21853 Pathogen[ P03346] interacts with 1 human partners:{Q53GL7}

21854 Pathogen[ Q85601] interacts with 1 human partners:{Q53GL7}

21855 Pathogen[ P14079] interacts with 1 human partners:{Q53GL7}

21856 Pathogen[ P03383] interacts with 1 human partners:{Q53GL7}

21857 Pathogen[ P03410] interacts with 1 human partners:{Q53GL7}

21858 Pathogen[ P14075] interacts with 1 human partners:{Q53GL7}

21859 Pathogen[ P0C206] interacts with 1 human partners:{Q53GL7}

21860 Pathogen[ P03363] interacts with 1 human partners:{Q53GL7}

21861 [Cluster 1988]GO:0021549+P biological\_process [name] cerebellum development [def] "The process whose specific outcome is the progression of the cerebellum over time, from its formation to the mature structure. The cerebellum is the portion of the brain in the back of the head between the cerebrum and the pons. In mice, the cerebellum controls balance for walking and standing, modulates the force and range of movement and is involved in the learning of motor skills." [GO\_REF

21862 Pathogen[ Q2Q067] interacts with 5 human partners:{Q13562;Q15596;P49116;Q86U70;O75376}

21863 Pathogen[ P0C214] interacts with 5 human partners:{P49116;Q86U70;O75376;O60925;Q15596}

21864 Pathogen[ P03346] interacts with 10 human partners:{Q86U70;Q15788;P49116;Q68CZ1;P52951;Q15596;O75376;Q9H2C1;O60925;Q13562}

21865 Pathogen[ Q85601] interacts with 5 human partners:{Q86U70;Q15596;Q13562;O75376;P49116}

21866 Pathogen[ P14079] interacts with 9 human partners:{O60925;Q15596;Q68CZ1;Q86U70;P00395;Q15078;Q15788;O75376;P49116}

21867 Pathogen[ P03383] interacts with 5 human partners:{Q15596;O75376;Q86U70;P49116;O60925}

21868 Pathogen[ P03410] interacts with 7 human partners:{O75376;Q86U70;Q15596;P49116;O60925;Q68CZ1;Q9BRK5}

21869 Pathogen[ P14075] interacts with 5 human partners:{Q86U70;O75376;P49116;O60925;Q15596}

21870 Pathogen[ P0C206] interacts with 8 human partners:{P49116;O60925;Q9H2C1;O75376;Q13562;Q15596;Q86U70;Q15788}

- 21871 Pathogen[ P03363] interacts with 6 human partners:{Q86U70;P49116;O75376;Q15596;O60925;P52951}
- 21872 [Cluster 1989]GO:0006915+P biological\_process [name] apoptotic process [def] "A programmed cell death process which begins when a cell receives an internal (e.g. DNA damage) or external signal (e.g. an extracellular death ligand), and proceeds through a series of biochemical events (signaling pathways) which typically lead to rounding-up of the cell, retraction of pseudopodes, reduction of cellular volume (pyknosis), chromatin condensation, nuclear fragmentation (karyorrhexis), plasma membrane blebbing and fragmentation of the cell into apoptotic bodies. The process ends when the cell has died. The process is divided into a signaling pathway phase and into an execution phase, which is triggered by the former." [GOC
- 21873 Pathogen[ Q2Q067] interacts with 286 human partners:{O95411;P51398;Q96TC7;Q14974;Q9BZZ5;Q99460;Q96J02;O00213;Q6FI81;Q96FV9;O75832;P0C1Z6;P48556;Q96S65;P02545;P31749;P40306;Q8IUC6;P55036;Q9NR28;P20700;Q96KQ4;Q5D1E8;P55957;Q9Y5V3;O75340;Q9UL41;Q9NS56;O15519;Q9BUP3;Q9H175;Q96B97;O00291;Q9UHR5;Q8IVG9;P30419;O00231;Q9UMX3;O00233;Q01094;Q13352;P62258;O95257;O75940;Q8IZW8;Q16666;Q9Y3T9;Q6IE81;Q96QA5;Q12982;P09913;P51665;Q9HCN2;Q14674;Q13829;Q9BXH1;P28072;Q9UHX1;O75807;Q8WXP8;O43255;O00167;Q13077;O00273;Q05516;Q9HD15;O60543;Q8WWK9;Q9BPZ2;Q00994;Q12933;Q5T1C6;O60238;Q13625;P63167;A5LHX3;Q14814;O95999;Q99933;P41134;Q9UER7;Q9UNL4;Q13200;O15350;Q9NY61;Q96GX9;P25787;Q8IX12;Q06323;Q8WUF5;Q13158;Q8ND90;Q8WYN3;P15924;Q13794;P63241;Q14790;Q9NXC7;Q9HB09;Q8N726;Q8WUY3;Q9Y3E5;P28065;Q14818;P61077;P49756;Q8IXM3;O15304;Q96AQ7;Q9BUX1;O15405;Q8N5P1;O43524;Q99966;O15162;P24522;P62487;Q9UK73;Q96CJ1;Q8WUM4;Q07157;Q14997;O43236;P51948;Q96F07;O75618;Q6GPH4;P60900;Q9H8T0;Q9UL46;O60934;Q8WWW0;P61289;Q9BXY8;O96017;Q9UNN5;O76095;Q63ZY3;P55212;Q69YI7;P09972;O14862;P55060;Q92843;Q96IL0;P28062;O43715;Q12904;Q13114;P06396;Q5TBC7;Q9HCU9;Q9H8M7;Q53EL6;Q9UNM6;Q99732;Q9H2J4;Q96LC9;Q9UDY2;P25788;Q9UL42;Q9HD36;Q969U7;P42575;Q9BUL8;Q9NPQ2;Q13616;Q92530;P49354;P04406;Q00005;P78560;P35869;Q9HB75;P25786;Q5TCQ9;O00198;P99999;Q7Z465;Q9P0J0;Q9ULW0;O95232;O60216;O00321;Q16401;Q96BY2;P23760;Q53G26;Q92785;A1L190;Q9UKV3;O00232;Q86TG7;Q9NWF9;P19838;Q96RU7;Q9Y3E7;P78395;Q13155;Q86VP1;Q9H6Z9;P28074;P25789;Q8WV24;Q8WU39;Q8NFZ5;P25963;P0CG47;Q12983;P31946;Q9C000;Q9NR09;Q13901;Q14209;P20618;Q15628;O95817;O95831;Q9GZU2;Q8N488;P0CG48;Q8N8D1;Q9NWB7;O43318;Q9UNL4;O14737;Q8IXT1;P28070;Q9Y2G2;P28066;P63000;Q9BZR8;O95613;Q96FJ2;Q01826;Q99436;Q8TAA3;P49593;P62987;O43242;Q15121;P08670;Q9UKG1;Q14154;P49721;Q9HCM9;B2CW77;Q96IZ0;P02489;Q9Y421;Q66K74;P49720;O00463;P27469;Q13490;Q9UL40;Q9UMX0;P35900;Q92556;Q96PG8;Q9HAW4;P05783;Q96A26;Q86VP3;Q9BX26;P52294;Q8WYA6;Q9NXR7;P22736;Q96EY1;O15392;Q96JJ3;O60936;Q9H1Y0;Q8N163;Q13501;Q9BT92;Q02078;Q16548;Q15276;Q23112;O76075;Q9UKL3;Q9BXF3;Q96A56;P62979}
- 21874 Pathogen[ P0C214] interacts with 305 human partners:{Q9NWB7;O00198;P27469;Q14997;Q8N163;P51665;Q96J02;P51114;Q96FV9;O00213;Q9Y3T9;P49354;Q9H832;Q96CJ1;Q96S65;O60346;P25789;P63000;O95817;Q8IX12;P55036;Q12904;Q8WXF8;Q9NPP4;P35869;Q9Y5V3;P24522;O14681;P55060;Q8WUY3;P28062;P05783;A5LHX3;Q8WWW0;P09913;Q13490;Q00005;O00321;P28065;P19838;Q15628;A1L190;Q8WUF5;Q96IZ0;Q96BY2;P02489;Q8IUC6;Q9H175;P46379;Q9BPZ2;Q92934;Q13625;O60543;Q5TCQ9;Q9NP92;Q96LC9;Q13829;Q8WYN3;Q9HD15;Q9GZU2;P28331;P55212;Q7Z465;O75618;Q13158;Q9H0S4;Q9NS56;O14818;O15350;P15924;O00167;Q03112;O75807;Q9HB09;O43242;Q00994;P31483;Q9H2J4;Q5TBC7;Q8IXM3;Q96F07;P55957;O43715;Q9UL40;Q53EL6;Q9UNL4;Q96GX9;Q15121;P48556;Q16666;Q9BUL8;P30419;Q8N726;P78395;O75340;P06396;P20700;Q13200;Q9UL41;Q13901;Q8NEY3;Q9HAW4;P63241;Q9UKG1;Q9NY61;Q96TC7;O43318;O00232;O95232;Q86VP3;Q9Y3E5;Q9NWF9;O95257;P61077;Q9NXC7;Q13794;Q9BT92;P0C1Z6;Q02078;Q13501;O15519;Q16548;Q9BXH1;Q99460;P28066;Q9Y421;Q99966;Q9NPG2;Q01094;O75832;Q14814;P62487;O00273;Q99732;P98170;Q9UHX1;Q9BUP3;P21127;Q9UHR5;Q9H6Z9;P41134;Q9UKL3;P10124;Q8N8D1;P52294;P51948;P99999;P51398;Q9UER7;O96017;Q8IXT1;Q9UL42;Q9H8T0;P49720;P28074;Q8N488;Q99933;Q9UHD4;Q9P0J0;Q9UNN5;O15162;P0CG48;Q9UL46;Q9BUX1;Q86VP1;Q12982;O95999;Q12933;Q9H8M7;Q9HD36;Q96QA5;Q92556;Q9ULW0;P08670;Q13352;Q9UMX3;P54577;Q9HCU9;P25788;P42574;Q9BZZ5;Q9UNM6;O00231;Q69YI7;P25963;O95411;Q06323;Q9HCN2;Q96KQ4;P25786;Q9HB75;Q53G26;Q9Y2G2;Q969U7;Q13616;Q9HCM9;Q8WTP8;Q9BRT3;O75940;P28072;P09972;Q9UDY2;Q6GPH4;Q8TAA3;Q9Y3E7;P62987;Q9BXF3;Q12983;Q9H4P4;Q92843;Q6IE81;Q9B26;O15392;Q9H1Y0;Q8NFZ5;Q01826;Q96RU7;Q99436;Q13114;P10909;Q9NPC3;O60238;P0CG47;P25787;Q86TG7;Q14154;Q96FJ2;Q9NR09;P49593;Q86WV6;O95155;Q8WWK9;P78560;O14862;P30419;Q8WU39;Q8WYA6;Q9NXR7;Q9UK73;Q9UKV3;O14727;Q14974;Q96A56;Q5T1C6;P35998;P60900;O95613;Q8WV24;P02545;O00233;O00463;P55210;Q6FI81;P48454;P31946;P62979;Q9NR28;Q07157;Q96AQ7;Q5D1E8;O43255;Q96J33;O43236;P98171;Q96CA5;Q92530;Q9H3K2;Q15008;Q15304;Q14209;P04406;O60216;Q9UMX0;Q92785;O76075;P28070;Q9BXY8;O00291;Q96B97;P49756;Q96EY1;Q05516;P42575;Q8ND90;P31749;Q63ZY3;O15405;Q13155;O60936;P20618;Q66K74;P49721;Q16401;P23760;P63167;P17980;Q14790;Q9C000;Q96NN9;P35900;O14737;Q9BZR8;Q14674;Q8WUM4}
- 21875 Pathogen[ P03346] interacts with 355 human partners:{O95166;B2CW77;P15924;Q96FV9;P25787;Q96J02;O00213;Q96CJ1;Q13077;O00463;P09972;Q99828;P28070;Q96FJ2;Q96S65;O60443;O60346;Q02078;Q96B97;Q16666;Q969U7;P25789;P55036;Q00005;Q8IX12;Q9BTC0;Q99966;P04406;Q8N163;P05783;Q9UDY2;Q14814;Q96017;Q9BXF3;Q8WV24;Q9BUX1;O15392;P98171;Q99460;Q9NX02;Q13616;O14901;Q9UNL4;Q9NWF9;Q8IZW8;Q13489;Q9UL46;O14737;Q96F07;Q96LC9;O00167;O95155;Q9H305;Q9UHR5;P62987;P20700;Q02489;Q96KQ4;P28072;Q9BUP3;Q13158;Q9BX26;P21127;Q9H3K2;P25963;Q7Z465;Q9NR28;P25788;Q96IL0;P28074;P27469;P49721;Q8NFZ5;Q8WXP8;O60238;Q5TCQ9;Q8IXM3;P42575;Q9Y5M1;O14818;Q8WYN3;Q9HD15;P62258;Q99436;O15304;Q96A56;Q9NS18;P55957;Q8NXX4;Q15149;P0CG48;Q96A26;P23760;Q16401;Q9H4P4;A5LHX3;Q92858;O43255;Q66K74;Q12981;Q86TG7;Q8IVG9;Q12802;P98170;O00321;Q13835;O75940;P28062;Q9UMX0;Q14209;Q9NPG2;P42574;Q06TC7;Q9H8G2;Q8IZY5;O15350;Q00994;Q96AQ7;P63241;P20618;Q9H213;Q9BXY8;P55060;P49593;O00232;P55212;Q96JJ3;Q86Z02;Q13114;Q96BY2;O00291;Q12983;Q01094;Q13829;Q9BT92;Q9Y3E5;Q16342;P02545;Q92843;P61077;O15519;Q9UKV3;P0C1

Z6;O95999;Q13813;Q9Y371;P52756;O75832;O00233;P62487;P51398;Q9UL40;Q13155;Q9BRT3;P78560;Q9Y421;Q6ZTQ3;P99999;Q9UKL3;Q9HAW4;Q9NS56;Q12904;P49354;Q96IZ0;O95232;Q9BPZ2;Q9ULW0;Q9H8T0;P10144;Q9H175;Q9Y3E7;O43236;Q13609;Q9NPP4;Q8WYA6;Q9NQS1;Q9NXR7;O75340;Q9UNN5;P22736;P51397;P31749;P78395;P31483;Q9NWB7;P41134;Q5TBC7;P49720;P28065;Q9UPQ4;Q9HB75;Q9NZC7;Q8WU39;Q9HCU9;O95817;Q03112;P46379;P49756;Q9BZZ5;Q9HCM9;P60900;O75618;Q9NY61;Q15121;Q5D1E8;Q9UER7;Q96QA5;P25786;Q07157;O00231;O00198;Q8IUQ4;Q9Y3T9;Q12778;Q13625;Q53G26;O95411;Q9HCN2;Q6Q0C0;Q07820;Q9Y5V3;O95831;P61289;Q8WUF5;Q9BZR8;Q6IE81;Q9NWH9;Q15628;P62979;P28066;Q9UNM6;Q8WUY3;Q8N5P1;P08670;Q96RU7;Q9BUZ4;Q05516;Q8ND90;O60934;Q5VV41;Q8WWW0;Q8IUC6;O60936;Q63ZY3;O76075;P31946;Q8TAA3;Q9NP92;O15151;Q96S99;Q9NPC3;P55211;Q14790;P0CG47;Q9H0S4;P35900;Q96PG8;P45985;Q6GPH4;Q69YI7;Q9UKG1;Q9HB09;Q16548;Q9GZU2;Q9NR09;A1L190;Q9HA38;P48454;Q14997;Q13490;Q9H1Y0;Q13200;Q8NEY3;Q8WWW9;P48556;Q9HC24;P55210;P19838;P63167;P24855;Q5JPI3;P09913;Q8IXT1;P06396;P51665;Q9H8M7;Q9UMX3;O95613;Q9H8V3;P51114;Q9Y2G2;O43318;O95257;O76095;Q9P0J0;Q8N488;Q6FI81;P35869;Q96DT0;Q9UHX1;Q06323;Q12982;Q8N726;Q9UL41;P62952;Q6FIF0;Q96CA5;O43715;O43524;O60543;Q9BXH1;Q8N8D1;Q92530;Q14674;O14862;Q92556;Q9H2J4;Q9HD36;O14727;O60216;Q8WUM4;Q9BUL8;P63000;P51948;O75807;Q9UL42;Q86VP3;O43242;Q8WUZ0;Q86VP1;P52294;Q14154;Q9UHD4;Q96EY1;Q53EL6;Q92785;Q01826;Q9UK73;O15405;Q96GX9;Q9H6Z9;Q13352;P40306;Q13901;Q99933;Q13794;O00273;Q15276;P24522;Q13501;O95379;Q9C000;Q14974;Q99732;O15162}

21876

Pathogen[ Q85601] interacts with 291 human partners: {P10144;P28066;Q96IZ0;Q9UNM6;Q96J02;P60900;Q9NZC7;P20700;O00213;Q96CJ1;P49756;P02489;Q96S65;Q86WV6;Q96LC9;O43715;O60346;Q8ND90;Q02078;Q16666;P09913;P55036;Q9P0J0;Q9H6Z9;P02545;Q96S99;P31946;Q9UKL3;Q9NS56;Q9EXH1;P31749;P99999;Q86VP1;Q13490;P06396;O95831;P41134;Q9H0S4;O96017;Q9BXF3;Q8WV24;Q9BUX1;P25787;Q8WVK9;Q8IUC6;Q9HB09;Q9HD36;Q9NP92;Q96F07;O15151;P61289;Q9NY61;O00463;O95166;Q6GPH4;Q13158;P08670;Q7Z465;P25788;Q16548;Q8WWW0;P49593;Q9BUL8;Q9H8M7;Q00005;Q53G26;Q13155;Q14790;Q99966;O75832;Q14814;Q15304;Q9NWB7;Q03112;Q9UDY2;Q12982;Q9UL41;Q9UHX1;Q96BY2;Q9UER7;P63000;Q13616;Q66K74;P46379;Q9BZZ5;Q12981;O60936;Q15121;P98170;Q9UNL4;Q9Y2G2;Q8WYA6;P24522;Q8IX12;Q9NR28;Q9NWF9;O15392;Q8N8D1;P0CG48;O95155;Q9UMX3;Q14674;Q6FI81;O76075;Q96AQ7;P51948;O75940;P63241;P27469;Q9ULW0;Q9UHD4;O60216;Q9BX26;Q9BT92;Q96JJ3;Q13114;O15405;Q9Y3E5;Q96GX9;P61077;O00198;P0C1Z6;Q14974;P25789;P15924;Q96FV9;O00233;P62487;P51398;Q8NEY3;Q9H2J4;Q96KQ4;Q8WYN3;P20618;Q9GZU2;Q13352;Q14154;P49354;Q9H8T0;Q92785;Q9H8Y8;Q9H175;Q9UK73;Q9BTC0;Q13901;Q8N726;Q9UNN5;Q9BPZ2;P05783;O95232;Q9HD15;P40306;Q969U7;Q9UKV3;Q9HAW4;Q8NFX5;Q99933;P55060;Q12933;Q8IZW8;O60543;Q9UL40;Q5TBC7;P62258;P49720;P42575;Q9UPQ4;Q9H1Y0;Q9HCU9;Q9Y5V3;P28062;P09972;P49721;Q92843;Q63ZY3;O75618;P22736;Q9HA38;P55957;Q8WXP8;O00273;Q96B97;P25786;O14862;O95257;Q96IL0;Q01826;Q13625;Q5TCQ9;P28072;Q53EL6;Q13200;Q14209;Q9HB75;Q8WUF5;P28065;Q96A56;O75340;Q6IE81;P62979;Q99436;Q96RU7;Q15628;Q07157;Q8N5P1;P28070;Q05516;Q9Y3T9;Q9NPG2;Q8TAA3;Q9UL46;Q9NPC3;O76095;Q99460;O00231;P0CG47;Q8IXM3;Q8WUY3;Q12983;Q9UKG1;Q8N163;Q9H832;Q9NR09;Q8WUM4;Q86TG7;Q13077;P35869;P48556;P21127;O15350;O00291;Q96TC7;Q00994;P28074;Q92530;P04406;O15162;P62987;P35900;O95613;P55212;O95999;O43318;Q9H4P4;A5LHX3;Q8N488;P30419;Q9BZR8;Q99732;Q06323;O43255;Q13829;O00167;Q6Q0C0;O75807;Q96CA5;O60238;P19838;O14818;P48454;O14737;O95817;Q5T1C6;P78395;Q9BUP3;Q9UHR5;Q9Y3E7;P52294;Q9UL42;Q86VP3;O15519;P63167;Q9NXR7;Q96EY1;Q16401;Q01094;Q9UMX0;P23760;P78560;Q5D1E8;Q13794;O43236;P55210;P51114;Q9HCM9;O00321;Q13501;A1L190;O60934;P25963;Q69YI7}

21877

Pathogen[ P14079] interacts with 379 human partners: {P31751;A8MUM7;Q8IXM3;P28065;Q9UDX5;Q99436;Q96A56;Q9BPZ2;O00463;P48454;Q8NEY3;Q8IX12;O95166;P62333;Q9UL40;Q9Y3E5;P09327;Q9NPG2;Q12982;P35900;Q9H0S4;P48556;O75618;O76075;O15162;P27469;Q9NVQ4;Q5D1E8;O00291;Q9UKG1;P35869;Q8WV24;Q02078;Q8WU39;P0CG48;Q06413;Q13609;Q9NWB7;P49593;Q8NHX4;Q6ZTQ3;Q8N163;Q9UL42;Q16548;Q9UDY2;O95999;O00231;Q9GZU2;P52564;O15519;Q9HB09;Q8N8D1;Q95817;Q96FJ2;P62487;Q8IZW8;O15304;Q96CJ1;P49354;Q9NY61;Q8WUF5;O60543;P40306;Q9NP84;Q92542;Q13323;P98171;Q9NZ42;Q8IUC6;P15924;Q9UMX0;P55036;O76095;P28074;Q07157;Q66K74;O00232;Q96DT0;Q92556;Q8IVG9;Q13835;Q13901;O15405;Q9UL41;Q9C000;Q15276;B2CW77;P52294;Q9HC24;Q9BXX5;Q9UNL4;O15392;Q01826;P49720;O75807;O00487;P09972;Q9H8T0;P25787;Q00994;O60216;Q99966;Q14209;Q75832;Q8N726;Q05516;Q96KA5;Q96PG8;P22736;Q9H305;O00213;O60346;Q92785;P10909;A5LHX3;Q9BUL8;Q14674;Q9ULW0;Q96B97;P62979;O43715;Q96S99;Q13625;O00233;O60934;Q96JJ3;Q9H213;Q99828;O00115;Q9Y371;P35998;P02489;P61077;Q6IE81;Q9H175;Q9UHX1;P62952;P61289;Q7Z465;Q9H1Y0;Q96BJ8;Q9BUZ4;O15350;Q9BXH1;P62987;Q13077;Q9HCM9;Q96S65;P55212;P09913;Q96FV9;P51665;Q9NR09;P35611;Q6FI81;P20618;Q9BUP3;Q9Y421;P10911;Q8TAA3;Q12802;Q9H8M9;Q15149;P45983;Q9UK73;P68032;Q8IXT1;Q9NPC3;Q8IZY5;O95831;Q9UKL3;O75940;Q9BZR8;Q9Y3T9;Q9HAW4;Q9Y5V3;Q9NXR7;Q14997;Q8NC60;P49756;Q9Y287;Q14790;O95379;Q9UNN5;P28062;P60900;Q8N114;Q00005;Q96BY2;Q9NZC7;Q9NWF9;Q99732;Q9UKV3;Q9UER7;Q8ND90;Q9NX09;Q96AQ7;Q96IL0;O14737;Q86VP3;Q92934;Q15121;P31946;Q86WV6;Q8NFX5;Q8WUM4;Q969U7;P55210;Q96QA5;Q9BXY8;O75340;Q9BRT3;Q9HD36;Q9H8G2;Q99933;P45985;Q5T1C6;Q9UNM6;Q96GX9;Q9BXF3;Q14974;P55060;Q8WUY3;Q9H6Z9;Q9HD15;Q99460;P24855;Q12981;O00559;P24522;P0C1Z6;Q99445;Q9NR28;Q96IZ0;P30419;Q9UHR5;Q96GPH4;Q9H8V3;Q53GA4;O14818;Q13794;P46695;Q9P0J0;Q9BX69;O43903;O60936;Q12983;P49721;Q8TCU4;P10124;Q9UMX3;Q9NS56;Q96A26;Q92530;Q96J02;Q14154;Q9HA38;P21127;P62258;P61803;Q96F07;Q13501;P05783;O14862;Q9NP92;Q8WW43;Q9HCU9;Q96RU7;Q9BX26;P63241;Q8WVK9;P20700;Q8N523;Q8N682;Q8N488;Q14814;Q86TG7;Q8N9M5;Q9Y2G2;Q12933;Q63ZY3;Q96LC9;Q9H3K2;Q13158;Q06323;O95613;O75293;Q5JPI3;P63167;P62191;Q9BT92;O00198;Q9Y3E7;O95232;Q8WXP8;Q13155;Q13164;P41134;P78395;P51397;P08670;Q9HCN2;Q15008;Q16625;Q6UX65;Q13829;Q69YI7;P43686;P42575;Q12904;O43242;P25788;Q5JBM3;O00167;Q8WYN3;O00231;Q13616;P28066;Q9UL46;Q96KQ4;P02545;P51398;P99999;O95411;Q96FX8;Q86XT9;P52756;O60238;Q9BUX1;Q13813;Q96TC7;Q9BZZ5;O14901;P0CG47;O95257;Q9H2J4;O15151;Q8WYA6;Q9Y239;Q01094;Q13352;O60443;Q9H8M7;Q15628;Q9BZM7;Q5TBC7;Q16342;O14681;Q9BTC0;Q9HB75;Q8WWW0;Q16401;P10144;Q9NQS1;P17980;Q9Y5M1;Q96EY1;Q9UHD4;Q8WUZ0;P28072;P31483;P07305;O43236;Q13114;P55957;Q16666;Q53EL6;O00273;P40305;Q13490;P10636;Q9NP

- 21878 P4;P04406;P23760;Q96PV4;Q92843;Q5VV41;A1L190;P51948;Q8WTP8}  
Pathogen[ P03383] interacts with 259 human  
partners: {P02545;P15924;P51398;Q13616;O00213;Q9NY61;Q96LC9;O14737;Q96S65;Q8IXT1;Q53E  
L6;P55036;Q12904;Q96A56;O14862;Q96TC7;Q9UKL3;Q14209;P55212;O60543;Q9BPZ2;O00167;Q9H0  
S4;P62987;Q9NWB7;Q8IUC6;P27469;P51948;Q8WUY3;Q9H2J4;Q8WWK9;P25789;Q9BUX1;Q8N163;P086  
70;P60900;Q01094;O15162;P31946;Q9UK73;Q96FJ2;Q96CJ1;Q9UHR5;O15304;Q7Z465;P31749;O432  
36;Q00005;Q9Y3E7;P40306;O75618;O00233;Q9H8G2;Q96KQ4;Q01826;Q8NEY3;Q13490;P55957;Q96F  
V9;Q5D1E8;Q96AQ7;Q9UMX3;Q96IZ0;P09972;O95831;P24522;P63000;Q96A26;Q9BZZ5;Q86TG7;P497  
21;Q06323;O60936;Q15121;Q86VP1;Q9UNL4;Q14814;Q14997;Q8WYN3;O15405;Q9NP92;Q05516;P057  
83;Q13352;P63241;P20618;Q9H1Y0;Q9UHD4;O60216;Q13158;Q13625;Q13155;Q9H175;O00321;Q129  
83;P25963;Q9HCN2;P28072;O43255;Q14974;Q13200;Q8IXM3;O95999;Q5TCQ9;P28065;Q13501;Q8IX  
12;Q9H832;Q9Y2G2;Q8WUF5;P28066;P10124;Q99933;Q96RU7;Q15628;Q8ND90;O95232;Q16401;Q8WX  
F8;P62979;O00231;P23760;P0CG47;Q9BUL8;Q9BUP3;A1L190;Q9HB09;Q63ZY3;Q9NR09;O00198;Q8WU  
M4;P0CG48;O75807;P62952;P28074;Q92785;O14681;Q92530;Q9UL42;P51397;P49720;Q9ULW0;Q8TA  
A3;O95613;P61289;Q13794;O76095;Q6IE81;Q9BXH1;P28062;Q9P0J0;Q9BXF3;Q969U7;Q13829;Q9UL  
41;P48556;Q9NWF9;P63167;P19838;Q9Y421;P35869;Q14818;Q8N8D1;Q8WV24;Q9UL40;Q8WY  
A6;P62258;Q5T1C6;Q99436;P52294;Q13114;Q8NFX5;Q14154;Q9NQS1;Q9NXR7;Q96EY1;B2CW77;Q8IV  
G9;P28070;Q96QA5;O95257;Q13901;Q02078;Q6FI81;P35900;O75940;Q53G26;Q9UDY2;Q15276;Q8N7  
26;P25787;Q96BY2;Q9HB75;O96017;P06396;P25788;Q9BX26;Q69YI7}
- 21879 Pathogen[ P03410] interacts with 367 human  
partners: {Q9BRT3;Q99933;Q9BZZ5;P62258;Q9HC24;Q96TC7;O14901;O15392;Q9H305;P28070;Q8WU  
Z0;P49354;Q96PV4;Q8WXF8;P19838;Q9H213;Q8WTP8;Q13829;Q86XT9;P55036;Q15121;Q9UL41;Q031  
12;P0CG48;A0PJW8;P15924;Q9NXR7;Q16666;Q9Y2G2;O14681;Q9UNN5;P10144;Q14974;Q13155;Q9HB  
75;Q8IX12;Q9HCM9;O75293;Q9Y239;Q53G26;Q12983;Q8NFX5;O43903;Q96S99;Q9H159;P78560;Q9H8  
G2;O15151;Q86VP3;P25786;Q15008;P63000;Q16401;Q8N726;Q9H6Z9;P98171;P52294;Q9NR28;Q130  
77;Q16548;Q9BXH1;P60900;Q9UHD4;P55060;Q9BXF3;Q9GZU2;Q96IL0;Q9NWF9;O00198;P425  
75;P35998;P06396;Q96AQ7;Q9BUL8;Q13609;Q99460;Q53GA4;Q69YI7;O15405;P24522;Q96LC9;P101  
24;Q14814;O00233;O76075;Q9NXC7;Q8WWK9;Q5TCQ9;O14862;Q9NPC3;O15519;Q13490;Q9UPQ4;Q9UN  
L4;Q9BUX1;O00232;Q9NY61;P20700;Q7Z465;O00273;Q99732;Q96BY2;Q99445;O95379;Q13501;Q9H8  
T0;Q9HD36;Q8TAA3;Q92843;P41134;P31749;Q8N114;Q9NP92;Q9HAW4;Q8TCU4;O00213;Q92934;P304  
19;P48556;P63167;Q92785;P49721;Q9Y287;Q9BPZ2;Q9NPP4;Q9C000;O00321;Q9H175;Q13794;O002  
91;Q9Y3T9;Q13835;Q9BXY8;Q8IVG9;Q9H0S4;Q96KQ4;A5LHX3;P62979;O95817;P0C1Z6;Q8NC60;O602  
16;Q14674;Q99436;Q86VP1;Q96FV9;Q12904;P55957;Q13158;O00559;Q9NZ42;Q969U7;Q8NHX4;Q9Y5  
M1;O95166;O15162;P40306;Q00994;Q6GPH4;Q8WYA6;Q9NR09;Q15628;Q06323;Q06333;O43318;Q9UM  
X0;O43715;Q2556;Q9Y3E7;Q9UDY2;Q8IZW8;Q8WV24;P49756;O60936;Q13200;Q96828;Q9BT92;P099  
72;P63098;Q9UKV3;P25787;Q96DT0;Q9UL40;Q9UER7;O95999;P51397;Q9BX26;Q96FX8;P48454;O432  
36;P45985;P02489;Q8WYN3;Q8N163;Q5T1C6;P78395;P27469;Q07157;Q9NWB7;Q9UMX3;O00463;B2CW  
77;Q5D1E8;Q96A26;P02545;P28062;Q9UHX1;P62952;Q5VV41;Q6UX65;Q01826;Q96BJ8;Q96S65;P516  
65;Q9HCN2;Q8NEY3;P22736;Q96IZ0;Q9BUP3;Q8IXT1;Q9Y371;P31483;Q53EL6;Q9BTC0;Q12933;Q8N5  
P1;O95831;O14818;O96017;O60443;Q8WU39;Q8IXM3;Q8WWW0;O75807;Q96GX9;Q66K74;Q8N488;P044  
06;P99999;Q5TBC7;Q96CJ1;O00231;P08670;Q6FI81;Q9UNM6;Q16625;Q9UKL3;Q9UK73;O95232;P511  
14;P10636;P51948;Q96KA5;Q96RU7;Q5JPI3;Q9Y3E5;P25789;P49720;Q13901;Q86TG7;P09913;Q136  
16;Q9Y5V3;Q9HA38;O60346;Q00005;P62987;Q9ULW0;Q9NPG2;Q6ZTQ3;Q96A56;Q01094;O00167;Q129  
82;Q8WW43;P49593;Q9H8M7;O95411;Q9HB09;Q02078;Q92542;Q96B97;P35900;Q8IUC6;P63241;O153  
50;P62487;Q86WV6;Q8ND90;O60543;P46695;O00115;Q96QA5;P23760;P28072;Q96F07;O75340;O760  
95;Q9H3K2;Q9BZR8;Q9H8V3;Q9P0J0;O95257;Q14209;Q9NP84;O75618;P25963;Q9HD15;A1L190;P257  
88;Q12981;Q15149;O75940;Q96PG8;Q9BX69;O95613;Q63ZY3;Q14154;Q13625;Q8IZY5;P40305;P552  
12;Q13813;Q8WUM4;P28066;Q9NR00;P61803;Q9NX09;P05783;Q96JJ3;P28065;Q8N8D1;Q9NQS1;O432  
42;P35611;Q9Y421;Q96EY1;Q9UKG1;Q6IE81;P0CG47;Q9UL42;O60934;P24855;O60238;O14737;Q133  
52;P17980;Q9H2J4;P31946;O75832;P20618;Q13114;P61077;Q15276;Q9UL46;Q13323;P28074;P109  
09;P61289;P55210;Q9UHR5;Q8WUY3;P51398;O15304;Q8WUF5;Q99966}
- 21880 Pathogen[ P14075] interacts with 263 human  
partners: {Q9BZZ5;Q96BY2;Q96F07;P78560;Q99933;O00213;Q9UK73;P35869;Q9BUP3;Q96GX9;Q96S  
65;Q12983;O95232;P55036;P62952;P25788;O00005;Q13155;Q9UHD4;Q9H175;Q9GZU2;P55957;Q8IX  
T1;Q96FX8;O00273;P28066;Q63ZY3;Q8NEY3;O14681;Q96KQ4;Q9BUL8;P09913;Q8WU39;P05783;Q8N4  
88;Q96A26;Q06323;O75832;Q9HB75;Q9UMX3;Q9BPZ2;Q8TAA3;O43236;P49756;Q07157;P78395;O760  
95;P60900;Q7Z465;Q9H0S4;Q96PG8;Q9H1Y0;Q9UHR5;O15162;O00233;Q9UHX1;Q9UL46;Q13901;Q8WU  
M4;P55212;P0C1Z6;P49720;Q9BX26;Q9NY61;P20700;Q00994;O95257;Q96TC7;Q969U7;A1L190;B2CW  
77;Q16548;Q96QA5;Q8IVG9;Q8WUY3;Q8WUF5;O53G26;Q13200;P48556;O00167;Q16401;Q5TBC7;Q8IX  
12;Q5TCQ9;P63241;Q9NXR7;Q5T1C6;Q16666;O15304;P28070;Q96LC9;Q9Y3E5;Q14209;P259  
63;P61077;P49721;Q96IZ0;Q8ND90;Q9UKV3;Q8N163;Q8NFX5;Q8WV24;O00231;Q01826;Q92785;Q9HC  
N2;Q96AQ7;P51398;O43255;Q9Y3E7;Q9HCM9;O75940;P62487;Q92530;O00291;Q9NR28;Q9ULW0;Q9UK  
L3;Q86VP3;Q9NWF9;Q9HAW4;P52294;Q6IE81;P31749;P02545;P0CG48;P04406;P62979;Q9H8T0;Q5JP  
I3;O75618;Q9H8G2;Q8N8D1;P51397;Q9BXY8;Q86VP1;Q9UNN5;P28062;Q96FJ2;P99999;Q13490;P280  
74;Q12933;O96017;O15350;Q12904;O14862;P28065;Q9NQS1;O95831;Q9HCU9;Q9H2J4;Q9HB09;O605  
43;Q99732;Q9BXH1;Q9Y421;O60238;Q14154;O43318;Q13158;Q96CJ1;O75807;Q8WXF8;P25786;O154  
05;O14818;P62987;P06396;Q13114;P21127;P28072;Q53EL6;O14737;Q9Y5M1;Q01094;Q5D1E8;Q9BU  
X1;O95999;Q13794;Q9NWB7;Q13625;Q03112;Q02078;Q15628;P08670;P63000;Q14997;Q96RU7;Q8IU  
C6;Q9UNL4;Q9Y3T9;P24522;P0CG47;Q9UL42;P09972;P25787;Q9UDY2;Q69YI7;Q8WYA6;Q146  
74;Q9NR09;Q8WWK9;O43715;Q05516;P19838;P27469;Q9UL40;P31946;P40305;P20618;Q8WUZ0;Q8NH  
X4;P10124;P35900;Q14974;O95613;Q9NP92;Q9UER7;Q13352;P23760;O60936;Q6FI81;Q13829;Q9UN

- M6;Q9BXF3;Q13616;Q15121;Q9Y287;Q8IZY5;Q96FV9;Q9UQ88;P61289;Q9Y5V3;P40306;Q99436;Q8WY  
N3;Q14814;Q9P0J0;O60216;P63167;P55060;Q9HD15;Q96A56;O95411;Q96EY1;Q13501;Q8N726;O001  
98;P51948;Q9UMX0;P62258;Q86TG7;Q9Y2G2;Q15276;O00321;Q9H6Z9;Q9UL41;Q9H8M7;P15924;P257  
89}
- 21881 Pathogen[ P0C206] interacts with 355 human  
partners: {O75293;P61289;Q96TC7;O75340;Q9UNN5;Q9C000;Q9Y5M1;Q12982;Q9HCU9;Q969U7;Q9H0  
S4;Q99436;P28062;P10144;O60216;P99999;Q9UNM6;Q8WUF5;Q13501;Q13829;P0CG48;Q9NS56;Q9UK  
G1;P31483;P06396;O75832;Q96PG8;O00167;Q13077;P40305;Q8IXM3;Q92556;Q96S65;Q99828;Q9H4  
P4;Q96F07;Q9GZU2;P31749;P40306;Q9Y2G2;P28065;Q9NS18;Q14997;Q9H305;Q9BUP3;Q96IZ0;Q9BU  
X1;P24522;O00291;Q9NZ42;Q13114;Q6FI81;O43255;Q02078;P55036;Q8N726;Q9Y3E7;Q9NR28;O960  
17;Q9BZR8;Q9BT92;Q9BXY8;P25786;Q9Y287;Q14737;Q9HD36;P35869;O14862;P25788;Q9BZ  
Z5;Q9ULW0;Q9UK73;Q9UL41;A1L190;Q96FX8;P78395;P30419;P25787;Q99933;Q86VP1;Q15121;Q055  
16;Q8TCU4;Q13625;O75807;Q06323;Q9UMX0;Q9NR00;Q9UKL3;Q96B97;P78560;Q9UHR5;O60934;O760  
75;O95232;Q9H8T0;P63167;Q9UMX3;Q5TCQ9;O95999;Q53G26;P49720;Q14974;Q8IUQ4;O75940;P259  
63;Q9Y5V3;Q96J02;P55212;Q9NWF9;Q16342;Q8NFZ5;Q9BPZ2;O43318;Q8IZW8;Q16666;O00232;Q9UE  
R7;Q8IXT1;P60900;O75618;Q8IZY5;Q9UDY2;Q9NPC3;P98170;O95155;Q86WV6;Q13158;Q9BXH1;Q925  
42;Q13616;Q96A26;Q12933;Q96KQ4;Q9HD15;P22736;O43242;O00321;P10636;Q96A56;Q9BX26;Q009  
94;Q96LC9;Q86TG7;P49354;P24855;O15519;Q9UHX1;Q96RU7;O43236;A5LHX3;Q66K74;O15405;Q8WY  
A6;P51398;P31946;Q9Y421;Q92934;P25789;Q16548;P49593;Q9H3K2;P41134;Q9NPG2;Q92785;P511  
14;O00213;O60238;O43715;Q9UPQ4;O14681;Q12983;Q9BUZ4;Q14209;O15151;P0C1Z6;O60936;P198  
38;O60443;Q92843;Q6ZTQ3;Q96FV9;Q03112;Q9BFX3;Q9NRP9;Q9NR09;O95613;P63000;O95257;P622  
58;Q13835;P20618;P51397;O95831;Q13200;Q9H1Y0;Q8TAA3;Q96CJ1;P28070;Q8N488;Q8N8D1;Q8WX  
F8;Q9H175;Q9NWB7;Q99445;Q8N5P1;Q86VP3;Q8IVG9;P09913;Q9BTC0;Q99460;Q8ND90;Q5D1E8;O001  
98;Q01094;Q5JPI3;Q8WWW0;P62979;P05783;Q5T1C6;Q96JJ3;P04406;Q96BY2;Q14790;Q13352;P109  
09;Q9BUL8;Q13609;Q13901;P28066;Q96AQ7;Q9HCN2;Q96DT0;Q15628;Q96S99;Q9HA38;P42574;Q9H8  
V3;Q53EL6;O14818;O15392;Q7Z465;P48454;Q9NRP2;P23760;O00463;Q13489;P62487;Q9HB75;P981  
71;P45985;Q9P0J0;P0CG47;P55060;O95411;Q96GX9;Q8IUC6;Q8WUM4;Q8WU39;P28072;P15924;Q129  
81;Q8IX12;O15162;Q63ZY3;Q6IE81;P63241;Q99966;Q9UHD4;Q14674;Q07157;P02545;O95379;P099  
72;Q14154;Q9HCM9;B2CW77;Q9HC24;Q9NZC7;Q9H6Z9;Q13155;O95817;O15350;Q01826;Q9H832;O149  
01;Q96CA5;P20700;P28074;P27469;Q8NEY3;P42575;Q9Y3E5;Q9BXX5;O60346;P21127;Q14814;Q925  
30;P61077;P49721;P49756;Q96QA5;P86670;P62987;O60543;Q8WUZ0;Q9UKV3;Q9UL46;P52294;P024  
89;Q96EY1;Q8WUY3;Q6GPH4;Q9HAW4;Q9NY61;Q00005;P46379;P55210;Q9UL40;Q8WWW9;Q5TBC7;P629  
52;Q9Y3T9;Q8N163;O15304;Q99732;O00273;Q9NQS1;Q96IL0;Q9H8M7;O00233;P48556;P10124;Q8WY  
N3;O95166;Q16401;P35900;Q6Q0C0;Q69YI7;Q15276;Q9BRT3;P55957;Q12904;Q9H2J4;Q9UNL4;Q9UK  
V3;Q9HB09;O76095;O00231;Q9NXR7;Q13794;P51948;Q8WV24;Q13490}
- 21882 Pathogen[ P03363] interacts with 271 human  
partners: {Q6IE81;Q86VP1;Q9UNN5;P46379;Q9NWF9;O75940;Q9H8G2;P05783;Q9BUL8;Q16342;Q134  
90;O14901;P62952;Q9BZZ5;Q9H832;P62258;P55957;O00273;Q9UL42;O60543;Q9BUP3;Q96AQ7;Q9NW  
H9;Q13835;Q9HAW4;Q96S65;O60443;P63167;Q9NQS1;O15519;Q66K74;Q969U7;Q9HCU9;Q5VV41;O954  
11;P02545;Q9H175;Q9C000;P21127;O75340;Q96IZ0;P99999;Q9NVQ4;Q9UKV3;Q9NVP4;Q96L  
C9;Q63ZY3;O95232;O75618;Q8IXM3;P25963;Q03112;O00213;Q8WWW9;Q13794;Q9HD15;Q96B97;P207  
00;P09913;Q8WV24;P23760;Q00005;O15304;O95155;O95257;Q9H8M7;Q9NX02;Q12933;Q9ULW0;Q9H6  
Z9;Q01826;O00463;Q13625;Q9BUX1;P09972;Q14154;P31946;O95613;Q9UMX0;P49354;Q9NPC3;B2CW  
77;Q8WYA6;Q8N8D1;Q15121;Q53EL6;Q13901;Q9Y5M1;Q8N488;Q9UL41;P98171;Q8IZY5;Q96F07;Q9UL  
40;Q9UER7;O15151;P61289;Q6FI81;P78395;Q9WUF5;O43318;Q9BZR8;P49756;Q9BZP2;Q99828;Q96K  
Q4;Q13158;Q5TBC7;Q8WUY3;Q96FV9;P63000;P10144;Q07157;Q16548;Q9H0S4;P35869;O00198;Q96T  
C7;Q9HCN2;O95817;O00321;P15924;Q9UNL4;Q53G26;Q16666;Q13155;O96017;P06396;Q9NWB7;P109  
11;Q9BXF3;O43524;P35900;Q9H305;Q9HD36;Q13609;Q9HB75;P55212;Q8WYN3;Q9NY61;Q96A56;Q136  
16;Q8N5P1;Q96QA5;Q8WUM4;Q9GZU2;Q9NR09;Q15149;Q14814;Q9NR28;Q9P0J0;P31749;Q96BY2;Q130  
77;Q8NEY3;Q13489;Q9UHR5;Q01094;Q5TCQ9;O76075;P0C1Z6;Q99732;P08670;Q92843;O95379;P411  
34;Q9UKL3;Q9Y3E7;P04406;P98170;Q8N163;Q7Z465;Q9BT92;Q8IZW8;P24522;Q92556;Q9UHX1;P629  
87;Q14209;Q9H2J4;P51114;Q14974;Q8ND90;Q9H8T0;Q9Y3T9;O75807;Q9Y2G2;Q00994;Q14674;Q9UD  
Y2;Q9NRP2;P78560;P19838;Q9H4P4;O76095;P62487;O60936;Q13829;Q5JPI3;Q6FIF0;O14862;Q156  
28;P63241;Q9NXR7;Q8N726;P27469;O00167;Q8IX12;Q9Y5V3;Q07820;Q96JJ3;Q13114;O14737;Q8WW  
W0;Q9HCM9;Q96CA5;Q8IVG9;Q5D1E8;O15405;Q9Y3E5;Q96CJ1;Q8WU39;Q9H3K2;Q96GX9;P610  
77;P55210;O60333;P02489;P24855;Q8NFZ5;Q9NPP4;P31483;Q9HB09;Q9BXH1;P55060;Q9BUZ4;O432  
55;Q96EY1;Q13813;Q9UK73;O43715;Q13352;Q05516;P51398;Q8WXF8;O60238;Q6ZTQ3;O95166;Q96F  
J2;Q9UMX3;Q99933;Q12982;O43236;Q9UKG1;Q86TG7;O00291;Q15276;Q9H1Y0;Q9BX26;A1L190;Q9Y4  
21;O60216;O95831;Q92785;P52294;Q8IXT1;P52756;Q9BXY8;Q02078}
- 21883 [Cluster 1990]GO:0008406+P biological\_process [name] gonad development [def] "The  
process whose specific outcome is the progression of the gonad over time, from its  
formation to the mature structure. The gonad is an animal organ that produces gametes\_  
in some species it also produces hormones." [GOC
- 21884 Pathogen[ Q2Q067] interacts with 2 human partners: {P80723;Q9NSC2}
- 21885 Pathogen[ P0C214] interacts with 2 human partners: {Q9NSC2;P80723}
- 21886 Pathogen[ P03346] interacts with 4 human partners: {P80723;Q9NSC2;P51843;P78411}
- 21887 Pathogen[ Q85601] interacts with 2 human partners: {P80723;Q9NSC2}
- 21888 Pathogen[ P14079] interacts with 3 human partners: {P01215;P80723;Q9NSC2}
- 21889 Pathogen[ P03383] interacts with 3 human partners: {Q9NSC2;P80723;P01215}
- 21890 Pathogen[ P03410] interacts with 3 human partners: {P01215;P80723;Q9NSC2}
- 21891 Pathogen[ P14075] interacts with 3 human partners: {Q9NSC2;P80723;P01215}
- 21892 Pathogen[ P0C206] interacts with 4 human partners: {Q9NSC2;P78411;P80723;P01215}
- 21893 Pathogen[ P03363] interacts with 2 human partners: {P78411;P80723}
- 21894 [Cluster 1991]GO:0010977+P biological\_process [name] negative regulation of neuron  
projection development [def] "Any process that decreases the rate, frequency or extent  
of neuron projection development. Neuron projection development is the process whose



specific outcome is the progression of a neuron projection over time, from its formation to the mature structure. A neuron projection is any process extending from a neural cell, such as axons or dendrites (collectively called neurites)." [GOC

21895 Pathogen[ Q2Q067] interacts with 6 human partners: {Q14678;O43439;Q99684;P14136;Q92769;P08670}

21896 Pathogen[ P0C214] interacts with 6 human partners: {Q14678;P14136;O43439;Q92769;P08670;Q99684}

21897 Pathogen[ P03346] interacts with 8 human partners: {Q14678;P14136;Q9H165;Q93045;Q99684;Q92769;O43439;P08670}

21898 Pathogen[ Q85601] interacts with 6 human partners: {P08670;P14136;O43439;Q92769;Q14678;Q99684}

21899 Pathogen[ P14079] interacts with 8 human partners: {O43439;Q99684;P14136;Q9NQX7;Q93045;Q92769;P08670;Q14678}

21900 Pathogen[ P03383] interacts with 6 human partners: {Q14678;P08670;P14136;Q92769;Q99684;O43439}

21901 Pathogen[ P03410] interacts with 8 human partners: {O43439;Q99684;Q92769;Q9NQX7;P08670;Q14678;P14136;Q93045}

21902 Pathogen[ P14075] interacts with 6 human partners: {P14136;Q99684;Q92769;P08670;O43439;Q14678}

21903 Pathogen[ P0C206] interacts with 9 human partners: {Q92769;Q14678;Q93045;P14136;Q9H165;Q9NQX7;Q99684;P08670;O43439}

21904 Pathogen[ P03363] interacts with 6 human partners: {Q99684;O43439;Q93045;P08670;P14136;Q14678}

21905 [Cluster 1992]GO:0006376+P biological\_process [name] mRNA splice site selection [def] "Selection of a splice site by components of the assembling spliceosome." [GOC

21906 Pathogen[ Q2Q067] interacts with 5 human partners: {Q9NR56;O75494;Q12872;Q07955;Q13243}

21907 Pathogen[ P0C214] interacts with 5 human partners: {Q9NR56;Q07955;Q13243;Q12872;O75494}

21908 Pathogen[ P03346] interacts with 8 human partners: {Q13242;Q13247;Q07955;Q92879;Q13243;O75494;Q9NR56;Q12872}

21909 Pathogen[ Q85601] interacts with 5 human partners: {Q13243;Q9NR56;O75494;Q07955;Q12872}

21910 Pathogen[ P14079] interacts with 5 human partners: {Q13243;Q9NR56;Q07955;Q12872;O75494}

21911 Pathogen[ P03383] interacts with 5 human partners: {Q12872;Q07955;O75494;Q9NR56;Q13243}

21912 Pathogen[ P03410] interacts with 5 human partners: {Q9NR56;Q07955;Q12872;Q13243;O75494}

21913 Pathogen[ P14075] interacts with 5 human partners: {Q13243;O75494;Q12872;Q9NR56;Q07955}

21914 Pathogen[ P0C206] interacts with 5 human partners: {Q12872;Q07955;Q9NR56;Q13243;O75494}

21915 Pathogen[ P03363] interacts with 8 human partners: {Q12872;Q92879;Q9NR56;Q13242;Q13243;Q07955;Q13247;O75494}

21916 [Cluster 1993]GO:0046599+P biological\_process [name] regulation of centriole replication [def] "Any process that modulates the frequency, rate or extent of the formation of a daughter centriole of an existing centriole." [GOC

21917 Pathogen[ Q2Q067] interacts with 4 human partners: {Q8N0Z3;Q9HC77;P06748;Q8TAP6}

21918 Pathogen[ P0C214] interacts with 4 human partners: {P06748;Q9HC77;Q8TAP6;Q8N0Z3}

21919 Pathogen[ P03346] interacts with 4 human partners: {P06748;Q9HC77;Q8N0Z3;Q8TAP6}

21920 Pathogen[ Q85601] interacts with 4 human partners: {Q9HC77;P06748;Q8TAP6;Q8N0Z3}

21921 Pathogen[ P14079] interacts with 4 human partners: {Q8TAP6;Q8N0Z3;P06748;Q9HC77}

21922 Pathogen[ P03383] interacts with 4 human partners: {Q8N0Z3;P06748;Q9HC77;Q8TAP6}

21923 Pathogen[ P03410] interacts with 4 human partners: {Q9HC77;P06748;Q8N0Z3;Q8TAP6}

21924 Pathogen[ P14075] interacts with 4 human partners: {Q9HC77;Q8TAP6;P06748;Q8N0Z3}

21925 Pathogen[ P0C206] interacts with 4 human partners: {Q9HC77;Q8TAP6;Q8N0Z3;P06748}

21926 Pathogen[ P03363] interacts with 4 human partners: {Q9HC77;Q8TAP6;P06748;Q8N0Z3}

21927 [Cluster 1994]GO:0031333+P biological\_process [name] negative regulation of protein complex assembly [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of protein complex assembly." [GOC

21928 Pathogen[ Q2Q067] interacts with 3 human partners: {Q13541;Q9NSA3;P60953}

21929 Pathogen[ P0C214] interacts with 3 human partners: {P60953;Q9NSA3;Q13541}

21930 Pathogen[ P03346] interacts with 4 human partners: {Q13541;P60953;Q9NSA3;P61968}

21931 Pathogen[ Q85601] interacts with 4 human partners: {P61968;Q13541;P60953;Q9NSA3}

21932 Pathogen[ P14079] interacts with 1 human partners: {Q13541}

21933 Pathogen[ P03383] interacts with 3 human partners: {P60953;Q9NSA3;Q13541}

21934 Pathogen[ P03410] interacts with 4 human partners: {Q9NSA3;Q9BQB4;Q13541;P60953}

21935 Pathogen[ P14075] interacts with 3 human partners: {P60953;Q9NSA3;Q13541}

21936 Pathogen[ P0C206] interacts with 4 human partners: {Q13541;Q9NSA3;P60953;P61968}

21937 Pathogen[ P03363] interacts with 3 human partners: {Q9NSA3;Q13541;P60953}

21938 [Cluster 1995]GO:0072663+P biological\_process [name] establishment of protein localization in a peroxisome [def] "The directed movement of a protein to a specific location in a peroxisome." [GOC

21939 Pathogen[ Q2Q067] interacts with 1 human partners: {P40855}

21940 Pathogen[ P0C214] interacts with 1 human partners: {P40855}

21941 Pathogen[ P03346] interacts with 1 human partners:{P40855}

21942 Pathogen[ Q85601] interacts with 1 human partners:{P40855}

21943 Pathogen[ P14079] interacts with 1 human partners:{P40855}

21944 Pathogen[ P03383] interacts with 1 human partners:{P40855}

21945 Pathogen[ P03410] interacts with 1 human partners:{P40855}

21946 Pathogen[ P14075] interacts with 1 human partners:{P40855}

21947 Pathogen[ P0C206] interacts with 1 human partners:{P40855}

21948 Pathogen[ P03363] interacts with 1 human partners:{P40855}

21949 [Cluster 1996]GO:0050853+P biological\_process [name] B cell receptor signaling pathway [def] "A series of molecular signals initiated by the cross-linking of an antigen receptor on a B cell." [GOC

21950 Pathogen[ Q2Q067] interacts with 3 human partners:{P56945;P41218;Q13469}

21951 Pathogen[ P0C214] interacts with 3 human partners:{Q13469;P56945;P41218}

21952 Pathogen[ P03346] interacts with 4 human partners:{P41218;P56945;Q13469;Q9HB21}

21953 Pathogen[ Q85601] interacts with 4 human partners:{Q13469;P56945;P41218;Q9HB21}

21954 Pathogen[ P14079] interacts with 5 human partners:{P41218;Q06413;Q9HB21;Q13469;Q9GZY6}

21955 Pathogen[ P03383] interacts with 3 human partners:{P56945;Q13469;P41218}

21956 Pathogen[ P03410] interacts with 5 human partners:{P41218;Q9HB21;Q9GZY6;Q13469;P56945}

21957 Pathogen[ P14075] interacts with 3 human partners:{P41218;Q13469;P56945}

21958 Pathogen[ P0C206] interacts with 4 human partners:{Q13469;P41218;Q9HB21;P56945}

21959 Pathogen[ P03363] interacts with 3 human partners:{P41218;Q13469;P56945}

21960 [Cluster 1997]GO:0060348+P biological\_process [name] bone development [def] "The process whose specific outcome is the progression of bone over time, from its formation to the mature structure. Bone is the hard skeletal connective tissue consisting of both mineral and cellular components." [GOC

21961 Pathogen[ Q2Q067] interacts with 2 human partners:{Q7RTS9;O96028}

21962 Pathogen[ P0C214] interacts with 2 human partners:{Q7RTS9;O96028}

21963 Pathogen[ P03346] interacts with 2 human partners:{Q7RTS9;O96028}

21964 Pathogen[ Q85601] interacts with 2 human partners:{Q7RTS9;O96028}

21965 Pathogen[ P14079] interacts with 1 human partners:{Q7RTS9}

21966 Pathogen[ P03383] interacts with 1 human partners:{Q7RTS9}

21967 Pathogen[ P03410] interacts with 1 human partners:{Q7RTS9}

21968 Pathogen[ P14075] interacts with 1 human partners:{Q7RTS9}

21969 Pathogen[ P0C206] interacts with 2 human partners:{Q7RTS9;O96028}

21970 Pathogen[ P03363] interacts with 2 human partners:{Q7RTS9;O96028}

21971 [Cluster 1998]GO:0032785+P biological\_process [name] negative regulation of transcription elongation, DNA-dependent [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of transcription elongation, the extension of an RNA molecule after transcription initiation and promoter clearance by the addition of ribonucleotides catalyzed by a DNA-dependent RNA polymerase." [GOC

21972 Pathogen[ Q2Q067] interacts with 2 human partners:{O00267;P63272}

21973 Pathogen[ P0C214] interacts with 2 human partners:{O00267;P63272}

21974 Pathogen[ P03346] interacts with 2 human partners:{P63272;O00267}

21975 Pathogen[ Q85601] interacts with 2 human partners:{O00267;P63272}

21976 Pathogen[ P14079] interacts with 2 human partners:{P63272;O00267}

21977 Pathogen[ P03383] interacts with 2 human partners:{P63272;O00267}

21978 Pathogen[ P03410] interacts with 2 human partners:{O00267;P63272}

21979 Pathogen[ P14075] interacts with 2 human partners:{O00267;P63272}

21980 Pathogen[ P0C206] interacts with 2 human partners:{O00267;P63272}

21981 Pathogen[ P03363] interacts with 2 human partners:{O00267;P63272}

21982 [Cluster 1999]GO:0016525+P biological\_process [name] negative regulation of angiogenesis [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of angiogenesis." [GOC

21983 Pathogen[ Q2Q067] interacts with 5 human partners:{Q9H4X1;Q9UI56;P20719;P78347;P42224}

21984 Pathogen[ P0C214] interacts with 4 human partners:{Q9H4X1;P42224;P78347;Q9UI56}

21985 Pathogen[ P03346] interacts with 7 human partners:{Q9H4X1;P78347;P20719;P42224;O00522;P98177;Q9UI56}

21986 Pathogen[ Q85601] interacts with 3 human partners:{Q9H4X1;P42224;P78347}

21987 Pathogen[ P14079] interacts with 4 human partners:{Q9UI56;P42224;P78347;O00522}

21988 Pathogen[ P03383] interacts with 3 human partners:{Q9H4X1;P78347;Q9UI56}

21989 Pathogen[ P03410] interacts with 4 human partners:{Q9UI56;Q9H4X1;O00522;P78347}

21990 Pathogen[ P14075] interacts with 3 human partners:{Q9H4X1;P78347;Q9UI56}

21991 Pathogen[ P0C206] interacts with 6 human partners:{Q9H4X1;P78347;Q9UI56;P20719;P42224;O00522}

21992 Pathogen[ P03363] interacts with 5 human partners:{Q9H4X1;P20719;O00522;Q9UI56;P78347}

21993 [Cluster 2000]GO:0071363+P biological\_process [name] cellular response to growth factor stimulus [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a growth factor stimulus." [GOC

21994 Pathogen[ Q2Q067] interacts with 10 human partners:{P50402;P31749;P07737;Q15173;P35548;Q15583;Q9UKN5;Q99689;P55771;O94763}

21995 Pathogen[ P0C214] interacts with 11 human

partners:{Q9UKN5;P23919;Q15173;P50402;Q99689;P10909;P16220;O94763;P35548;P31749;P55771}

21996 Pathogen[ P03346] interacts with 14 human partners:{P16220;P35548;O94763;Q99689;Q15583;P15173;Q496M5;P31749;P50402;P07737;P54257;Q15173;Q9UKN5;P55771}

21997 Pathogen[ Q85601] interacts with 12 human partners:{P31749;Q9UKN5;Q15583;Q15173;P07737;P55771;P16220;P35548;Q99689;P50402;O94763;Q496M5}

21998 Pathogen[ P14079] interacts with 12 human partners:{P54257;Q15173;Q15583;P55771;P07737;P10909;O94763;P23919;Q99689;Q13164;Q9UKN5;P50402}

21999 Pathogen[ P03383] interacts with 10 human partners:{P16220;P55771;Q15173;P31749;Q99689;P07737;O94763;P35548;Q9UKN5;P50402}

22000 Pathogen[ P03410] interacts with 14 human partners:{O94763;Q15173;P31749;P23919;Q15583;P35548;Q9UKN5;P16220;P55771;P50402;P54257;P07737;P10909;Q99689}

22001 Pathogen[ P14075] interacts with 10 human partners:{Q9UKN5;P35548;P50402;O94763;P07737;P31749;P55771;Q15173;P16220;Q99689}

22002 Pathogen[ P0C206] interacts with 13 human partners:{P50402;Q496M5;P31749;P16220;Q15173;P55771;Q99689;Q9UKN5;P35548;P10909;P07737;O94763;Q15583}

22003 Pathogen[ P03363] interacts with 12 human partners:{P55771;Q9UKN5;P16220;P35548;P31749;O94763;Q15583;Q15173;P54257;P50402;P07737;Q99689}

22004 [Cluster 2001]GO:0046425+P biological\_process [name] regulation of JAK-STAT cascade [def] "Any process that modulates the frequency, rate or extent of the JAK-STAT signaling pathway." [GOC

22005 Pathogen[ Q2Q067] interacts with 2 human partners:{O14508;Q8TEK3}

22006 Pathogen[ P0C214] interacts with 2 human partners:{O14508;Q8TEK3}

22007 Pathogen[ P03346] interacts with 2 human partners:{Q8TEK3;O14508}

22008 Pathogen[ Q85601] interacts with 2 human partners:{O14508;Q8TEK3}

22009 Pathogen[ P14079] interacts with 3 human partners:{Q8TEK3;Q9H490;O14508}

22010 Pathogen[ P03383] interacts with 1 human partners:{Q8TEK3}

22011 Pathogen[ P03410] interacts with 3 human partners:{Q8TEK3;O14508;Q9H490}

22012 Pathogen[ P14075] interacts with 1 human partners:{Q8TEK3}

22013 Pathogen[ P0C206] interacts with 2 human partners:{O14508;Q8TEK3}

22014 Pathogen[ P03363] interacts with 2 human partners:{Q8TEK3;O14508}

22015 [Cluster 2002]GO:0014908+P biological\_process [name] myotube differentiation involved in skeletal muscle regeneration [def] "The process in which a relatively unspecialized cell acquires specialized features of a myotube cell. Myotube differentiation starts with myoblast fusion and the appearance of specific cell markers (this is the cell development step). Then individual myotubes can fuse to form bigger myotubes and start to contract. This process occurs as part of the process of skeletal muscle regeneration. Myotubes are multinucleated cells that are formed when proliferating myoblasts exit the cell cycle, differentiate and fuse." [GOC

22016 Pathogen[ Q2Q067] interacts with 2 human partners:{O00512;P15172}

22017 Pathogen[ P0C214] interacts with 2 human partners:{P15172;O00512}

22018 Pathogen[ P03346] interacts with 2 human partners:{P15172;O00512}

22019 Pathogen[ Q85601] interacts with 2 human partners:{P15172;O00512}

22020 Pathogen[ P14079] interacts with 1 human partners:{O00512}

22021 Pathogen[ P03383] interacts with 2 human partners:{P15172;O00512}

22022 Pathogen[ P03410] interacts with 1 human partners:{O00512}

22023 Pathogen[ P14075] interacts with 2 human partners:{O00512;P15172}

22024 Pathogen[ P0C206] interacts with 2 human partners:{O00512;P15172}

22025 Pathogen[ P03363] interacts with 2 human partners:{O00512;P15172}

22026 [Cluster 2003]GO:0032201+P biological\_process [name] telomere maintenance via semi-conservative replication [def] "The process in which telomeric DNA is synthesized semi-conservatively by the conventional replication machinery and telomeric accessory factors." [GOC

22027 Pathogen[ Q2Q067] interacts with 11 human partners:{Q15054;P27694;P35244;P49005;P12004;Q14181;P15927;P56282;Q9HCU8;P39748;P35251}

22028 Pathogen[ P0C214] interacts with 10 human partners:{P35251;P49005;Q9HCU8;P15927;P35244;P39748;Q15054;P27694;P56282;Q14181}

22029 Pathogen[ P03346] interacts with 14 human partners:{P12004;Q9HCU8;P27694;P35244;P35250;P56282;P49005;P15927;P35249;Q14181;P35251;P39748;P40937;Q15054}

22030 Pathogen[ Q85601] interacts with 11 human partners:{P56282;P35244;P49005;Q15054;P27694;P15927;P35251;Q14181;Q9HCU8;P12004;P39748}

22031 Pathogen[ P14079] interacts with 14 human partners:{P40937;P49005;Q9HCU8;Q15054;P35250;P56282;P35251;P49642;Q14181;P15927;P27694;P12004;P35244;P39748}

22032 Pathogen[ P03383] interacts with 9 human partners:{Q9HCU8;Q14181;P27694;P49005;P56282;P15927;P35244;Q15054;P35251}

22033 Pathogen[ P03410] interacts with 14 human

partners:{P35244;Q14181;P39748;P56282;P35251;Q15054;P49005;P27694;P15927;P35250;P40937;P12004;P49642;Q9HCU8}

22034 Pathogen[ P14075] interacts with 9 human partners:{P49005;P15927;P35244;P35251;Q15054;P27694;Q9HCU8;P56282;Q14181}

22035 Pathogen[ POC206] interacts with 12 human partners:{P35251;Q9HCU8;P49005;P49642;Q15054;Q14181;P56282;P27694;P15927;P39748;P35244;P12004}

22036 Pathogen[ P03363] interacts with 8 human partners:{P27694;P35251;P49005;Q14181;P35244;P15927;Q9HCU8;Q15054}

22037 [Cluster 2004]GO:0016576+P biological\_process [name] histone dephosphorylation [def] "The modification of histones by removal of phosphate groups." [GOC

22038 Pathogen[ Q2Q067] interacts with 3 human partners:{Q99502;O00167;Q99504}

22039 Pathogen[ POC214] interacts with 3 human partners:{O00167;Q99504;Q99502}

22040 Pathogen[ P03346] interacts with 3 human partners:{O00167;Q99502;Q99504}

22041 Pathogen[ Q85601] interacts with 3 human partners:{Q99504;Q99502;O00167}

22042 Pathogen[ P14079] interacts with 3 human partners:{Q99502;Q99504;O00167}

22043 Pathogen[ P03383] interacts with 2 human partners:{Q99504;O00167}

22044 Pathogen[ P03410] interacts with 3 human partners:{Q99502;Q99504;O00167}

22045 Pathogen[ P14075] interacts with 3 human partners:{Q99504;O00167;Q99502}

22046 Pathogen[ POC206] interacts with 3 human partners:{O00167;Q99504;Q99502}

22047 Pathogen[ P03363] interacts with 2 human partners:{Q99504;O00167}

22048 [Cluster 2005]GO:0042273+P biological\_process [name] ribosomal large subunit biogenesis [def] "A cellular process that results in the biosynthesis of constituent macromolecules, assembly, and arrangement of constituent parts of a large ribosomal subunit\_ includes transport to the sites of protein synthesis." [GOC

22049 Pathogen[ Q2Q067] interacts with 11 human partners:{Q9GZL7;Q9NVU7;O00541;P18077;Q9Y3A5;P61254;Q96EH3;P46777;P62913;P50914;P18124}

22050 Pathogen[ POC214] interacts with 11 human partners:{P62913;P18077;O00541;Q9GZL7;P50914;Q9NVU7;P61254;P46777;Q9Y3A5;P18124;Q96EH3}

22051 Pathogen[ P03346] interacts with 11 human partners:{P62913;O00541;Q9GZL7;P61254;Q96EH3;Q9NVU7;P50914;P46777;P18077;P18124;Q9Y3A5}

22052 Pathogen[ Q85601] interacts with 10 human partners:{P62913;O00541;P18077;Q9Y3A5;P61254;Q9GZL7;P46777;P18124;P50914;Q9NVU7}

22053 Pathogen[ P14079] interacts with 11 human partners:{Q9NVU7;Q9GZL7;P18077;P61254;Q96EH3;P50914;Q9Y3A5;P18124;P46777;O00541;P62913}

22054 Pathogen[ P03383] interacts with 11 human partners:{P62913;Q96EH3;O00541;P46777;P18124;P18077;Q9Y3A5;P61254;Q9GZL7;P50914;Q9NVU7}

22055 Pathogen[ P03410] interacts with 11 human partners:{P62913;P46777;P18124;P50914;Q9GZL7;Q96EH3;P18077;Q9NVU7;O00541;P61254;Q9Y3A5}

22056 Pathogen[ P14075] interacts with 11 human partners:{P62913;Q96EH3;P61254;Q9GZL7;O00541;P46777;P18124;Q9NVU7;P18077;P50914;Q9Y3A5}

22057 Pathogen[ POC206] interacts with 11 human partners:{P18124;Q9NVU7;P50914;Q9GZL7;P18077;P62913;Q96EH3;P46777;O00541;Q9Y3A5;P61254}

22058 Pathogen[ P03363] interacts with 11 human partners:{P62913;P18077;Q9GZL7;Q9NVU7;P61254;Q9Y3A5;P50914;P46777;Q96EH3;O00541;P18124}

22059 [Cluster 2006]GO:0060336+P biological\_process [name] negative regulation of interferon-gamma-mediated signaling pathway [def] "Any process that decreases the rate, frequency or extent of the series of molecular events generated as a consequence of interferon-gamma binding to a cell surface receptor." [GOC

22060 Pathogen[ Q2Q067] interacts with 2 human partners:{P55055;Q96EY1}

22061 Pathogen[ POC214] interacts with 1 human partners:{Q96EY1}

22062 Pathogen[ P03346] interacts with 2 human partners:{Q96EY1;P55055}

22063 Pathogen[ Q85601] interacts with 2 human partners:{P55055;Q96EY1}

22064 Pathogen[ P14079] interacts with 2 human partners:{P55055;Q96EY1}

22065 Pathogen[ P03383] interacts with 1 human partners:{Q96EY1}

22066 Pathogen[ P03410] interacts with 1 human partners:{Q96EY1}

22067 Pathogen[ P14075] interacts with 1 human partners:{Q96EY1}

22068 Pathogen[ POC206] interacts with 2 human partners:{P55055;Q96EY1}

22069 Pathogen[ P03363] interacts with 1 human partners:{Q96EY1}

22070 [Cluster 2007]GO:0006446+P biological\_process [name] regulation of translational initiation [def] "Any process that modulates the frequency, rate or extent of translational initiation." [GOC

22071 Pathogen[ Q2Q067] interacts with 20 human partners:{P23588;O60841;Q9UBQ5;P49770;P04792;Q14240;Q9UI10;O43310;Q14232;P78344;P41567;P60228;Q92499;Q09161;Q9H2K0;P52298;Q9UJA5;Q04637;Q15056;O15372}

22072 Pathogen[ POC214] interacts with 22 human partners:{P60228;Q09161;Q9UI10;O60841;P49770;O60739;O15372;P23588;P04792;P78344;Q150

22073 Pathogen[ P03346] interacts with 22 human  
partners: {P41567;O60739;Q09161;Q9UBQ5;O60841;P78344;Q15056;P55884;P52298;Q92499;Q14232;P60228;Q14240;P49770;P23588;O43310;Q9UJA5;Q9H2K0;Q04637;O15372;P04792;Q9UI10}

22074 Pathogen[ Q85601] interacts with 17 human  
partners: {Q9UBQ5;Q14240;P23588;Q04637;Q92499;P49770;Q09161;P60228;P78344;P41567;P04792;Q9UJA5;O15372;P52298;O43310;Q14232;Q9UI10}

22075 Pathogen[ P14079] interacts with 23 human  
partners: {Q15056;O60739;Q9UI10;Q9H2K0;P41567;P52298;O43432;P46199;Q14240;P78344;P23588;Q9P2X3;O43310;Q9UJA5;O60841;Q92499;Q14232;P04792;Q9UBQ5;Q09161;Q04637;O15372;P55884}

22076 Pathogen[ P03383] interacts with 18 human  
partners: {Q9UBQ5;P60228;P41567;Q9UI10;P04792;O60841;Q09161;P23588;Q9H2K0;P49770;P78344;P52298;Q04637;Q14232;Q9UJA5;O43310;Q92499;O15372}

22077 Pathogen[ P03410] interacts with 25 human  
partners: {O60841;O15372;Q9H2K0;P46199;P04792;Q14232;O43432;P49770;P41567;P55884;Q9UJA5;O60739;P52298;Q92499;Q15056;O43310;Q9P2X3;Q09161;Q04637;P60228;P78344;Q9UBQ5;P23588;Q9UI10;Q14240}

22078 Pathogen[ P14075] interacts with 20 human  
partners: {Q09161;O60841;O15372;P23588;P78344;P04792;Q9P2X3;Q9UI10;Q92499;P60228;Q9H2K0;O60739;Q14232;Q04637;P49770;O43310;Q9UJA5;P41567;Q9UBQ5;P52298}

22079 Pathogen[ P0C206] interacts with 21 human  
partners: {P52298;Q09161;Q14232;P41567;P04792;P60228;P49770;O60841;O60739;Q9H2K0;Q9UI10;Q14240;Q9UJA5;P23588;P78344;Q04637;O43310;Q9P2X3;Q92499;O15372;Q9UBQ5}

22080 Pathogen[ P03363] interacts with 20 human  
partners: {O60739;O43310;O60841;Q9UI10;Q15056;Q9UBQ5;O15372;P41567;P23588;Q14240;Q92499;P52298;Q9UJA5;P49770;P60228;P78344;P55884;P04792;Q09161;Q04637}

22081 [Cluster 2008]GO:0009314+P biological\_process [name] response to radiation [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an electromagnetic radiation stimulus. Electromagnetic radiation is a propagating wave in space with electric and magnetic components. These components oscillate at right angles to each other and to the direction of propagation." [GOC

22082 Pathogen[ Q2Q067] interacts with 8 human  
partners: {O95243;P13646;P30304;P10599;O15527;Q14683;O15287;O15297}

22083 Pathogen[ P0C214] interacts with 10 human  
partners: {O95243;O15287;P13646;P07093;P05412;O15297;Q14683;P10599;O15527;P30304}

22084 Pathogen[ P03346] interacts with 9 human  
partners: {P13646;P05412;P30304;O15287;Q14683;O15297;O95243;P10599;O15527}

22085 Pathogen[ Q85601] interacts with 10 human  
partners: {P13646;O15527;O95243;P30304;P10599;Q14683;O15297;P05412;O15287;P07093}

22086 Pathogen[ P14079] interacts with 8 human  
partners: {O15297;P13646;O15527;P30304;O95243;P10599;P05412;Q14683}

22087 Pathogen[ P03383] interacts with 9 human  
partners: {Q14683;O15527;P30304;P10599;O15297;O95243;O15287;P13646;P05412}

22088 Pathogen[ P03410] interacts with 9 human  
partners: {P13646;P10599;O95243;O15297;O15287;P30304;O15527;Q14683;P05412}

22089 Pathogen[ P14075] interacts with 9 human  
partners: {O15297;Q14683;P05412;O15527;P13646;P30304;O15287;O95243;P10599}

22090 Pathogen[ P0C206] interacts with 9 human  
partners: {O15527;P05412;O15287;Q14683;P30304;P10599;O15297;O95243;P13646}

22091 Pathogen[ P03363] interacts with 8 human  
partners: {O15287;O15527;P30304;O95243;P05412;P13646;O15297;Q14683}

22092 [Cluster 2009]GO:0070588+P biological\_process [name] calcium ion transmembrane transport [def] "A process in which a calcium ion is transported from one side of a membrane to the other by means of some agent such as a transporter or pore." [GOC

22093 Pathogen[ Q2Q067] interacts with 1 human partners: {Q93034}

22094 Pathogen[ P0C214] interacts with 1 human partners: {Q93034}

22095 Pathogen[ P03346] interacts with 1 human partners: {Q93034}

22096 Pathogen[ Q85601] interacts with 1 human partners: {Q93034}

22097 Pathogen[ P14079] interacts with 2 human partners: {Q8NE86;Q93034}

22098 Pathogen[ P03383] interacts with 1 human partners: {Q93034}

22099 Pathogen[ P03410] interacts with 3 human partners: {Q8NE86;Q8IU99;Q93034}

22100 Pathogen[ P14075] interacts with 1 human partners: {Q93034}

22101 Pathogen[ P0C206] interacts with 2 human partners: {Q8NE86;Q93034}

22102 Pathogen[ P03363] interacts with 1 human partners: {Q93034}

22103 [Cluster 2010]GO:0051016+P biological\_process [name] barbed-end actin filament capping [def] "The binding of a protein or protein complex to the barbed (or plus) end of an actin filament, thus preventing the addition, exchange or removal of further actin subunits." [ISBN

22104 Pathogen[ Q2Q067] interacts with 2 human partners: {P06396;P40121}

22105 Pathogen[ P0C214] interacts with 2 human partners: {P40121;P06396}

22106 Pathogen[ P03346] interacts with 2 human partners: {P40121;P06396}

22107 Pathogen[ Q85601] interacts with 2 human partners: {P06396;P40121}

22108 Pathogen[ P14079] interacts with 3 human partners: {P40121;P35611;Q9H2D6}

22109 Pathogen[ P03383] interacts with 1 human partners: {P06396}

22110 Pathogen[ P03410] interacts with 4 human partners:{P06396;P40121;P35611;Q9H2D6}  
22111 Pathogen[ P14075] interacts with 1 human partners:{P06396}  
22112 Pathogen[ P0C206] interacts with 2 human partners:{P06396;P40121}  
22113 Pathogen[ P03363] interacts with 3 human partners:{Q9H2D6;P06396;P40121}  
22114 [Cluster 2011]GO:0032314+P biological\_process [name] regulation of Rac GTPase activity  
[def] "Any process that modulates the activity of a GTPase of the Rac family." [GOC  
22115 Pathogen[ Q2Q067] interacts with 3 human partners:{P63172;Q9BVC4;Q6R327}  
22116 Pathogen[ P0C214] interacts with 3 human partners:{Q9BVC4;Q6R327;P63172}  
22117 Pathogen[ P03346] interacts with 3 human partners:{Q9BVC4;P63172;Q6R327}  
22118 Pathogen[ Q85601] interacts with 2 human partners:{P63172;Q9BVC4}  
22119 Pathogen[ P14079] interacts with 4 human partners:{Q6R327;P63172;Q9BVC4;Q9NZ72}  
22120 Pathogen[ P03383] interacts with 1 human partners:{P63172}  
22121 Pathogen[ P03410] interacts with 4 human partners:{P63172;Q9BVC4;Q6R327;Q9NZ72}  
22122 Pathogen[ P14075] interacts with 2 human partners:{P63172;Q6R327}  
22123 Pathogen[ P0C206] interacts with 4 human partners:{Q6R327;Q9NZ72;P63172;Q9BVC4}  
22124 Pathogen[ P03363] interacts with 3 human partners:{Q9BVC4;P63172;Q6R327}  
22125 [Cluster 2012]GO:0043368+P biological\_process [name] positive T cell selection  
[def] "The process of sparing immature T cells which react with self-MHC protein  
complexes with low affinity levels from apoptotic death." [ISBN  
22126 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8N1K5}  
22127 Pathogen[ P0C214] interacts with 1 human partners:{Q8N1K5}  
22128 Pathogen[ P03346] interacts with 1 human partners:{Q8N1K5}  
22129 Pathogen[ Q85601] interacts with 1 human partners:{Q8N1K5}  
22130 Pathogen[ P14079] interacts with 1 human partners:{Q8N1K5}  
22131 Pathogen[ P03383] interacts with 1 human partners:{Q8N1K5}  
22132 Pathogen[ P03410] interacts with 1 human partners:{Q8N1K5}  
22133 Pathogen[ P14075] interacts with 1 human partners:{Q8N1K5}  
22134 Pathogen[ P0C206] interacts with 1 human partners:{Q8N1K5}  
22135 Pathogen[ P03363] interacts with 1 human partners:{Q8N1K5}  
22136 [Cluster 2013]GO:0042632+P biological\_process [name] cholesterol homeostasis [def]  
"Any process involved in the maintenance of an internal steady state of cholesterol  
within an organism or cell." [GOC  
22137 Pathogen[ Q2Q067] interacts with 3 human partners:{Q5BJF2;P25063;O75376}  
22138 Pathogen[ P0C214] interacts with 2 human partners:{O75376;P25063}  
22139 Pathogen[ P03346] interacts with 4 human partners:{Q5BJF2;O75376;P25063;O00482}  
22140 Pathogen[ Q85601] interacts with 2 human partners:{O75376;O00482}  
22141 Pathogen[ P14079] interacts with 7 human  
partners:{Q13021;Q5BJF2;O00482;Q6IAA8;P25063;Q8TCU4;O75376}  
22142 Pathogen[ P03383] interacts with 3 human partners:{O75376;P25063;Q5BJF2}  
22143 Pathogen[ P03410] interacts with 8 human  
partners:{Q8TCU4;P55157;O75376;Q9NRY6;P25063;Q6IAA8;Q5BJF2;Q13021}  
22144 Pathogen[ P14075] interacts with 3 human partners:{O75376;Q5BJF2;P25063}  
22145 Pathogen[ P0C206] interacts with 6 human  
partners:{Q5BJF2;Q8TCU4;Q13021;O00482;P25063;O75376}  
22146 Pathogen[ P03363] interacts with 3 human partners:{O75376;Q5BJF2;O00482}  
22147 [Cluster 2014]GO:0021772+P biological\_process [name] olfactory bulb development  
[def] "The progression of the olfactory bulb over time from its initial formation until  
its mature state. The olfactory bulb coordinates neuronal signaling involved in the  
perception of smell. It receives input from the sensory neurons and outputs to the  
olfactory cortex." [GO\_REF  
22148 Pathogen[ Q2Q067] interacts with 4 human partners:{P12755;Q07687;Q9NSC2;O95613}  
22149 Pathogen[ P0C214] interacts with 4 human partners:{Q07687;Q9NSC2;P12755;O95613}  
22150 Pathogen[ P03346] interacts with 4 human partners:{Q68CZ1;Q9NSC2;Q96QS3;O95613}  
22151 Pathogen[ Q85601] interacts with 4 human partners:{P12755;O95613;Q9NSC2;Q07687}  
22152 Pathogen[ P14079] interacts with 6 human  
partners:{P12755;Q68CZ1;Q9UPW5;Q07687;O95613;Q9NSC2}  
22153 Pathogen[ P03383] interacts with 3 human partners:{Q07687;Q9NSC2;O95613}  
22154 Pathogen[ P03410] interacts with 6 human  
partners:{Q9UPW5;P12755;Q07687;Q9NSC2;Q68CZ1;O95613}  
22155 Pathogen[ P14075] interacts with 3 human partners:{Q9NSC2;Q07687;O95613}  
22156 Pathogen[ P0C206] interacts with 5 human  
partners:{Q07687;Q9NSC2;P12755;O95613;Q9UPW5}  
22157 Pathogen[ P03363] interacts with 3 human partners:{O95613;Q96QS3;Q07687}  
22158 [Cluster 2015]GO:0070527+P biological\_process [name] platelet aggregation [def] "The  
adhesion of one platelet to one or more other platelets via adhesion molecules." [GOC  
22159 Pathogen[ Q2Q067] interacts with 2 human partners:{O00186;P15976}  
22160 Pathogen[ P0C214] interacts with 1 human partners:{O00186}  
22161 Pathogen[ P03346] interacts with 2 human partners:{O00186;P15976}  
22162 Pathogen[ Q85601] interacts with 2 human partners:{O00186;P15976}  
22163 Pathogen[ P14079] interacts with 2 human partners:{P15976;O00186}  
22164 Pathogen[ P03383] interacts with 1 human partners:{O00186}  
22165 Pathogen[ P03410] interacts with 2 human partners:{O00186;P15976}  
22166 Pathogen[ P14075] interacts with 1 human partners:{O00186}  
22167 Pathogen[ P0C206] interacts with 2 human partners:{P15976;O00186}  
22168 Pathogen[ P03363] interacts with 1 human partners:{O00186}  
22169 [Cluster 2016]GO:0090002+P biological\_process [name] establishment of protein

localization in plasma membrane [def] "The directed movement of a protein to a specific location in the plasma membrane." [GOC

22170 Pathogen[ Q2Q067] interacts with 1 human partners:{Q5T2W1}

22171 Pathogen[ P0C214] interacts with 1 human partners:{Q5T2W1}

22172 Pathogen[ P03346] interacts with 1 human partners:{Q5T2W1}

22173 Pathogen[ Q85601] interacts with 1 human partners:{Q5T2W1}

22174 Pathogen[ P14079] interacts with 1 human partners:{Q5T2W1}

22175 Pathogen[ P03383] interacts with 1 human partners:{Q5T2W1}

22176 Pathogen[ P03410] interacts with 1 human partners:{Q5T2W1}

22177 Pathogen[ P14075] interacts with 1 human partners:{Q5T2W1}

22178 Pathogen[ P0C206] interacts with 1 human partners:{Q5T2W1}

22179 Pathogen[ P03363] interacts with 1 human partners:{Q5T2W1}

22180 [Cluster 2017]GO:0051344+P biological\_process [name] negative regulation of cyclic-nucleotide phosphodiesterase activity [def] "Any process that stops or reduces the rate of cyclic nucleotide phosphodiesterase activity, the catalysis of the reaction

22181 Pathogen[ Q2Q067] interacts with 1 human partners:{O00170}

22182 Pathogen[ P0C214] interacts with 1 human partners:{O00170}

22183 Pathogen[ P03346] interacts with 1 human partners:{O00170}

22184 Pathogen[ Q85601] interacts with 1 human partners:{O00170}

22185 Pathogen[ P14079] interacts with 1 human partners:{O00170}

22186 Pathogen[ P03383] interacts with 1 human partners:{O00170}

22187 Pathogen[ P03410] interacts with 1 human partners:{O00170}

22188 Pathogen[ P14075] interacts with 1 human partners:{O00170}

22189 Pathogen[ P0C206] interacts with 1 human partners:{O00170}

22190 Pathogen[ P03363] interacts with 1 human partners:{O00170}

22191 [Cluster 2018]GO:0006298+P biological\_process [name] mismatch repair [def] "A system for the correction of errors in which an incorrect base, which cannot form hydrogen bonds with the corresponding base in the parent strand, is incorporated into the daughter strand. The mismatch repair system promotes genomic fidelity by repairing base-base mismatches, insertion-deletion loops and heterologies generated during DNA replication and recombination." [ISBN

22192 Pathogen[ Q2Q067] interacts with 8 human partners:{Q15054;Q9UIF7;Q9UHC1;O15350;P12004;P54278;Q9UQ84;Q13569}

22193 Pathogen[ P0C214] interacts with 10 human partners:{A8MQ11;O15350;P20585;Q9UHC1;Q9UIF7;Q15054;Q9UQ84;P54278;P40692;Q13569}

22194 Pathogen[ P03346] interacts with 10 human partners:{P12004;Q9UIF7;O15350;Q9UHC1;P20585;Q9UQ84;Q13569;P54278;P54277;Q15054}

22195 Pathogen[ Q85601] interacts with 11 human partners:{Q9UQ84;A8MQ11;Q15054;P20585;Q13569;Q9UIF7;P54278;Q9UHC1;P12004;O15350;P40692}

22196 Pathogen[ P14079] interacts with 17 human partners:{O43196;P20585;Q9UIF7;P40692;Q68D20;P54278;Q9UHC1;O15350;A8MQ11;Q15054;O95744;Q9NSU2;P54277;P12004;P52701;Q13569;Q9UQ84}

22197 Pathogen[ P03383] interacts with 5 human partners:{P54278;Q9UHC1;O15350;Q15054;Q13569}

22198 Pathogen[ P03410] interacts with 17 human partners:{P40692;P20585;P54277;Q9NSU2;P52701;Q13569;Q15054;O95744;Q68D20;O43196;O15350;A8MQ11;P54278;Q9UQ84;P12004;Q9UIF7;Q9UHC1}

22199 Pathogen[ P14075] interacts with 6 human partners:{Q9UIF7;Q9UHC1;O15350;Q15054;P54278;Q13569}

22200 Pathogen[ P0C206] interacts with 14 human partners:{P54278;Q9UQ84;Q9NSU2;P52701;P40692;Q9UHC1;A8MQ11;P54277;Q13569;Q15054;O15350;P20585;Q9UIF7;P12004}

22201 Pathogen[ P03363] interacts with 7 human partners:{Q9UHC1;P20585;P54278;P54277;Q9UIF7;Q13569;Q15054}

22202 [Cluster 2019]GO:0003148+P biological\_process [name] outflow tract septum morphogenesis [def] "The process in which the anatomical structures of the outflow tract septum are generated and organized. The outflow tract septum is a partition in the outflow tract." [GOC

22203 Pathogen[ Q2Q067] interacts with 3 human partners:{Q8WW38;P35548;Q9NVD7}

22204 Pathogen[ P0C214] interacts with 3 human partners:{Q8WW38;Q9NVD7;P35548}

22205 Pathogen[ P03346] interacts with 3 human partners:{P35548;Q8WW38;Q9NVD7}

22206 Pathogen[ Q85601] interacts with 3 human partners:{Q9NVD7;Q8WW38;P35548}

22207 Pathogen[ P14079] interacts with 2 human partners:{Q9NVD7;Q8WW38}

22208 Pathogen[ P03383] interacts with 2 human partners:{Q8WW38;P35548}

22209 Pathogen[ P03410] interacts with 3 human partners:{Q8WW38;P35548;Q9NVD7}

22210 Pathogen[ P14075] interacts with 2 human partners:{P35548;Q8WW38}

22211 Pathogen[ P0C206] interacts with 3 human partners:{Q9NVD7;Q8WW38;P35548}

22212 Pathogen[ P03363] interacts with 3 human partners:{P35548;Q8WW38;Q9NVD7}

22213 [Cluster 2020]GO:0008154+P biological\_process [name] actin polymerization or depolymerization [def] "Assembly or disassembly of actin filaments by the addition or removal of actin monomers from a filament." [GOC

22214 Pathogen[ Q2Q067] interacts with 5 human partners:{O43516;Q8IZP0;O00401;P06396;P42768}

22215 Pathogen[ P0C214] interacts with 6 human partners:{Q9UI08;Q8IZP0;P06396;O43516;O00401;P42768}

22216 Pathogen[ P03346] interacts with 6 human partners: {O43516;P42768;Q8IZP0;Q9UI08;P06396;O00401}

22217 Pathogen[ Q85601] interacts with 5 human partners: {O00401;P06396;O43516;P42768;Q8IZP0}

22218 Pathogen[ P14079] interacts with 6 human partners: {O43516;Q8IZP0;P50552;P42768;O00401;Q9UI08}

22219 Pathogen[ P03383] interacts with 4 human partners: {O43516;O00401;P42768;P06396}

22220 Pathogen[ P03410] interacts with 7 human partners: {Q9UI08;O43516;P06396;O00401;P42768;P50552;Q8IZP0}

22221 Pathogen[ P14075] interacts with 4 human partners: {P42768;O43516;O00401;P06396}

22222 Pathogen[ P0C206] interacts with 6 human partners: {P06396;O43516;Q9UI08;Q8IZP0;O00401;P42768}

22223 Pathogen[ P03363] interacts with 6 human partners: {Q8IZP0;P42768;P06396;Q9UI08;O00401;O43516}

22224 [Cluster 2021]GO:0031589+P biological\_process [name] cell-substrate adhesion [def] "The attachment of a cell to the underlying substrate via adhesion molecules." [GOC]

22225 Pathogen[ Q2Q067] interacts with 2 human partners: {O43541;O60504}

22226 Pathogen[ P0C214] interacts with 2 human partners: {O43541;O60504}

22227 Pathogen[ P03346] interacts with 2 human partners: {O43541;O60504}

22228 Pathogen[ Q85601] interacts with 2 human partners: {O43541;O60504}

22229 Pathogen[ P14079] interacts with 2 human partners: {O60504;O43541}

22230 Pathogen[ P03383] interacts with 2 human partners: {O43541;O60504}

22231 Pathogen[ P03410] interacts with 2 human partners: {O60504;O43541}

22232 Pathogen[ P14075] interacts with 2 human partners: {O43541;O60504}

22233 Pathogen[ P0C206] interacts with 2 human partners: {O43541;O60504}

22234 Pathogen[ P03363] interacts with 1 human partners: {O43541}

22235 [Cluster 2022]GO:0032743+P biological\_process [name] positive regulation of interleukin-2 production [def] "Any process that activates or increases the frequency, rate, or extent of interleukin-2 production." [GOC]

22236 Pathogen[ Q2Q067] interacts with 3 human partners: {Q9UDY8;Q12933;O43318}

22237 Pathogen[ P0C214] interacts with 3 human partners: {Q9UDY8;O43318;Q12933}

22238 Pathogen[ P03346] interacts with 3 human partners: {O75995;Q9UDY8;O43318}

22239 Pathogen[ Q85601] interacts with 3 human partners: {Q9UDY8;Q12933;O43318}

22240 Pathogen[ P14079] interacts with 1 human partners: {Q12933}

22241 Pathogen[ P03383] interacts with 2 human partners: {O43318;Q12933}

22242 Pathogen[ P03410] interacts with 2 human partners: {O43318;Q12933}

22243 Pathogen[ P14075] interacts with 2 human partners: {Q12933;O43318}

22244 Pathogen[ P0C206] interacts with 3 human partners: {Q9UDY8;O43318;Q12933}

22245 Pathogen[ P03363] interacts with 2 human partners: {Q12933;O43318}

22246 [Cluster 2023]GO:0033628+P biological\_process [name] regulation of cell adhesion mediated by integrin [def] "Any process that modulates the frequency, rate, or extent of cell adhesion mediated by integrin." [GOC]

22247 Pathogen[ Q2Q067] interacts with 1 human partners: {O60711}

22248 Pathogen[ P0C214] interacts with 1 human partners: {O60711}

22249 Pathogen[ P03346] interacts with 1 human partners: {O60711}

22250 Pathogen[ Q85601] interacts with 1 human partners: {O60711}

22251 Pathogen[ P14079] interacts with 1 human partners: {O60711}

22252 Pathogen[ P03383] interacts with 1 human partners: {O60711}

22253 Pathogen[ P03410] interacts with 1 human partners: {O60711}

22254 Pathogen[ P14075] interacts with 1 human partners: {O60711}

22255 Pathogen[ P0C206] interacts with 1 human partners: {O60711}

22256 Pathogen[ P03363] interacts with 1 human partners: {O60711}

22257 [Cluster 2024]GO:0034421+P biological\_process [name] post-translational protein acetylation [def] "The addition of an acetyl group to one or more amino acids in a protein, occurring after the protein has been completely translated and released from the ribosome." [GOC]

22258 Pathogen[ Q2Q067] interacts with 1 human partners: {Q9BVC3}

22259 Pathogen[ P0C214] interacts with 1 human partners: {Q9BVC3}

22260 Pathogen[ P03346] interacts with 1 human partners: {Q9BVC3}

22261 Pathogen[ Q85601] interacts with 1 human partners: {Q9BVC3}

22262 Pathogen[ P14079] interacts with 1 human partners: {Q9BVC3}

22263 Pathogen[ P03383] interacts with 1 human partners: {Q9BVC3}

22264 Pathogen[ P03410] interacts with 1 human partners: {Q9BVC3}

22265 Pathogen[ P14075] interacts with 1 human partners: {Q9BVC3}

22266 Pathogen[ P0C206] interacts with 1 human partners: {Q9BVC3}

22267 Pathogen[ P03363] interacts with 1 human partners: {Q9BVC3}

22268 [Cluster 2025]GO:0001832+P biological\_process [name] blastocyst growth [def] "An increase in size of a blastocyst due to expansion of the blastocoelic cavity cell shape changes and cell proliferation." [GOC]

22269 Pathogen[ Q2Q067] interacts with 3 human partners: {Q96NB3;O60934;Q9HBD4}

22270 Pathogen[ P0C214] interacts with 2 human partners: {Q9HBD4;Q96NB3}

22271 Pathogen[ P03346] interacts with 3 human partners: {Q9HBD4;O60934;Q96NB3}

22272 Pathogen[ Q85601] interacts with 3 human partners: {Q9HBD4;Q96NB3;O60934}

22273 Pathogen[ P14079] interacts with 3 human partners: {Q96NB3;O60934;Q8N201}

22274 Pathogen[ P03383] interacts with 2 human partners: {Q9HBD4;Q96NB3}

22275 Pathogen[ P03410] interacts with 4 human partners: {Q96NB3;Q8N201;Q9HBD4;O60934}



22276 Pathogen[ P14075] interacts with 2 human partners:{Q9HBD4;Q96NB3}  
22277 Pathogen[ POC206] interacts with 4 human partners:{O60934;Q96NB3;Q9HBD4;Q8N201}  
22278 Pathogen[ P03363] interacts with 2 human partners:{Q9HBD4;Q96NB3}  
22279 [Cluster 2026]GO:0050772+P biological\_process [name] positive regulation of axonogenesis [def] "Any process that activates or increases the frequency, rate or extent of axonogenesis." [GOC  
22280 Pathogen[ Q2Q067] interacts with 2 human partners:{P12757;P61586}  
22281 Pathogen[ POC214] interacts with 3 human partners:{P12757;P61586;P52565}  
22282 Pathogen[ P03346] interacts with 3 human partners:{P12757;P52565;P61586}  
22283 Pathogen[ Q85601] interacts with 3 human partners:{P12757;P52565;P61586}  
22284 Pathogen[ P14079] interacts with 3 human partners:{P52565;P61586;P12757}  
22285 Pathogen[ P03383] interacts with 2 human partners:{P61586;P12757}  
22286 Pathogen[ P03410] interacts with 3 human partners:{P61586;P12757;P52565}  
22287 Pathogen[ P14075] interacts with 2 human partners:{P12757;P61586}  
22288 Pathogen[ POC206] interacts with 3 human partners:{P52565;P61586;P12757}  
22289 Pathogen[ P03363] interacts with 2 human partners:{P52565;P12757}  
22290 [Cluster 2027]GO:0072091+P biological\_process [name] regulation of stem cell proliferation [def] "Any process that modulates the frequency, rate or extent of stem cell proliferation. A stem cell is a cell that retains the ability to divide and proliferate throughout life to provide progenitor cells that can differentiate into specialized cells." [GOC  
22291 Pathogen[ Q2Q067] interacts with 1 human partners:{P46937}  
22292 Pathogen[ POC214] interacts with 1 human partners:{P46937}  
22293 Pathogen[ P03346] interacts with 2 human partners:{P46937;P35713}  
22294 Pathogen[ Q85601] interacts with 1 human partners:{P46937}  
22295 Pathogen[ P14079] interacts with 1 human partners:{P46937}  
22296 Pathogen[ P03383] interacts with 1 human partners:{P46937}  
22297 Pathogen[ P03410] interacts with 1 human partners:{P46937}  
22298 Pathogen[ P14075] interacts with 1 human partners:{P46937}  
22299 Pathogen[ POC206] interacts with 1 human partners:{P46937}  
22300 Pathogen[ P03363] interacts with 1 human partners:{P46937}  
22301 [Cluster 2028]GO:0061141+P biological\_process [name] lung ciliated cell differentiation [def] "The process in which a relatively unspecialized cell acquires specialized features of a lung ciliated cell. A lung ciliated cell is a specialized lung epithelial cell that contains a motile cilium for moving substances released from lung secretory cells." [GOC  
22302 Pathogen[ Q2Q067] interacts with 1 human partners:{000712}  
22303 Pathogen[ POC214] interacts with 1 human partners:{000712}  
22304 Pathogen[ P03346] interacts with 1 human partners:{000712}  
22305 Pathogen[ Q85601] interacts with 1 human partners:{000712}  
22306 Pathogen[ P14079] interacts with 1 human partners:{000712}  
22307 Pathogen[ P03383] interacts with 1 human partners:{000712}  
22308 Pathogen[ P03410] interacts with 1 human partners:{000712}  
22309 Pathogen[ P14075] interacts with 1 human partners:{000712}  
22310 Pathogen[ POC206] interacts with 1 human partners:{000712}  
22311 Pathogen[ P03363] interacts with 1 human partners:{000712}  
22312 [Cluster 2029]GO:0071356+P biological\_process [name] cellular response to tumor necrosis factor [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a tumor necrosis factor stimulus." [GOC  
22313 Pathogen[ Q2Q067] interacts with 6 human partners:{Q8WUQ7;Q04206;P10914;Q15327;Q7Z2X4;O95429}  
22314 Pathogen[ POC214] interacts with 5 human partners:{Q15327;Q04206;P10914;Q7Z2X4;O95429}  
22315 Pathogen[ P03346] interacts with 8 human partners:{Q9Y5W3;Q15327;Q04206;Q7Z2X4;P10914;O95429;Q6FIF0;Q8WUQ7}  
22316 Pathogen[ Q85601] interacts with 5 human partners:{Q7Z2X4;P10914;Q04206;Q15327;O95429}  
22317 Pathogen[ P14079] interacts with 9 human partners:{Q9H295;Q9NXE4;P13498;O95429;Q15327;Q8WUQ7;Q9Y5W3;Q7Z2X4;P10914}  
22318 Pathogen[ P03383] interacts with 5 human partners:{P10914;Q8WUQ7;Q15327;Q04206;O95429}  
22319 Pathogen[ P03410] interacts with 7 human partners:{Q8WUQ7;Q04206;Q15327;Q9NXE4;Q7Z2X4;O95429;P10914}  
22320 Pathogen[ P14075] interacts with 5 human partners:{Q04206;Q15327;P10914;Q8WUQ7;O95429}  
22321 Pathogen[ POC206] interacts with 6 human partners:{P10914;Q7Z2X4;Q15327;Q8WUQ7;O95429;Q04206}  
22322 Pathogen[ P03363] interacts with 6 human partners:{Q04206;Q15327;Q8WUQ7;P10914;Q6FIF0;O95429}  
22323 [Cluster 2030]GO:0042474+P biological\_process [name] middle ear morphogenesis [def] "The process in which the anatomical structures of the middle ear are generated and organized. The middle ear is the air-filled cavity within the skull of vertebrates that lies between the outer ear and the inner ear. It is linked to the pharynx (and therefore to outside air) via the Eustachian tube and in mammals contains the three ear ossicles, which transmit auditory vibrations from the outer ear (via the tympanum) to the inner

ear (via the oval window)." [GOC

22324 Pathogen[ Q2Q067] interacts with 4 human partners:{O43364;Q99502;P63173;P54821}

22325 Pathogen[ P0C214] interacts with 2 human partners:{P63173;Q99502}

22326 Pathogen[ P03346] interacts with 11 human partners:{Q9NPC8;P54821;P63173;Q99811;O95677;Q99502;O43364;O75569;Q15475;P78367;P56915}

22327 Pathogen[ Q85601] interacts with 4 human partners:{P63173;O95677;O43364;Q99502}

22328 Pathogen[ P14079] interacts with 8 human partners:{Q9Y5U4;O43364;Q99502;O75569;P54826;P63173;P28360;O15503}

22329 Pathogen[ P03383] interacts with 1 human partners:{P63173}

22330 Pathogen[ P03410] interacts with 7 human partners:{Q99502;Q9Y5U4;P63173;O75569;O43364;P54826;O15503}

22331 Pathogen[ P14075] interacts with 3 human partners:{P63173;Q99502;P54826}

22332 Pathogen[ P0C206] interacts with 6 human partners:{P54821;Q99502;O43364;P63173;P54826;O95677}

22333 Pathogen[ P03363] interacts with 8 human partners:{P63173;P56915;P54821;P78367;O43364;Q99811;Q9NPC8;O75569}

22334 [Cluster 2031]GO:0007023+P biological\_process [name] post-chaperonin tubulin folding pathway [def] "Completion of folding of alpha- and beta-tubulin\_ takes place subsequent to chaperonin-mediated partial folding\_ mediated by a complex of folding cofactors." [PMID

22335 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9BTW9;O75347}

22336 Pathogen[ P0C214] interacts with 2 human partners:{O75347;Q9BTW9}

22337 Pathogen[ P03346] interacts with 1 human partners:{O75347}

22338 Pathogen[ Q85601] interacts with 2 human partners:{Q9BTW9;O75347}

22339 Pathogen[ P14079] interacts with 3 human partners:{Q9BTW9;Q15814;O75347}

22340 Pathogen[ P03383] interacts with 1 human partners:{O75347}

22341 Pathogen[ P03410] interacts with 3 human partners:{Q15814;Q9BTW9;O75347}

22342 Pathogen[ P14075] interacts with 1 human partners:{O75347}

22343 Pathogen[ P0C206] interacts with 3 human partners:{Q9BTW9;Q15814;O75347}

22344 Pathogen[ P03363] interacts with 3 human partners:{O75347;Q15814;Q9BTW9}

22345 [Cluster 2032]GO:2000195+P biological\_process [name] negative regulation of female gonad development [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of female gonad development." [GOC

22346 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8WW38}

22347 Pathogen[ P0C214] interacts with 1 human partners:{Q8WW38}

22348 Pathogen[ P03346] interacts with 2 human partners:{Q8WW38;Q13285}

22349 Pathogen[ Q85601] interacts with 1 human partners:{Q8WW38}

22350 Pathogen[ P14079] interacts with 1 human partners:{Q8WW38}

22351 Pathogen[ P03383] interacts with 1 human partners:{Q8WW38}

22352 Pathogen[ P03410] interacts with 1 human partners:{Q8WW38}

22353 Pathogen[ P14075] interacts with 1 human partners:{Q8WW38}

22354 Pathogen[ P0C206] interacts with 1 human partners:{Q8WW38}

22355 Pathogen[ P03363] interacts with 1 human partners:{Q8WW38}

22356 [Cluster 2033]GO:0034333+P biological\_process [name] adherens junction assembly [def] "The aggregation, arrangement and bonding together of a set of components to form an adherens junction. An adherens junction is a cell junction at which the cytoplasmic face of the plasma membrane is attached to actin filaments." [GOC

22357 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9BTW9;Q9H7S9;O15105}

22358 Pathogen[ P0C214] interacts with 3 human partners:{Q9BTW9;O15105;Q9H7S9}

22359 Pathogen[ P03346] interacts with 2 human partners:{O15105;Q9H7S9}

22360 Pathogen[ Q85601] interacts with 3 human partners:{Q9H7S9;Q9BTW9;O15105}

22361 Pathogen[ P14079] interacts with 4 human partners:{Q9BTW9;O60895;Q9H7S9;O15105}

22362 Pathogen[ P03383] interacts with 2 human partners:{O15105;Q9H7S9}

22363 Pathogen[ P03410] interacts with 4 human partners:{O60895;Q9BTW9;O15105;Q9H7S9}

22364 Pathogen[ P14075] interacts with 2 human partners:{O15105;Q9H7S9}

22365 Pathogen[ P0C206] interacts with 3 human partners:{Q9BTW9;Q9H7S9;O15105}

22366 Pathogen[ P03363] interacts with 3 human partners:{Q9H7S9;O15105;Q9BTW9}

22367 [Cluster 2034]GO:0030148+P biological\_process [name] sphingolipid biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of sphingolipids, any of a class of lipids containing the long-chain amine diol sphingosine or a closely related base (a sphingoid)." [GOC

22368 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9BW60;Q96G23}

22369 Pathogen[ P0C214] interacts with 3 human partners:{Q9HA82;Q96G23;Q9BW60}

22370 Pathogen[ P03346] interacts with 2 human partners:{Q9BW60;Q96G23}

22371 Pathogen[ Q85601] interacts with 2 human partners:{Q9BW60;Q96G23}

22372 Pathogen[ P14079] interacts with 7 human partners:{Q9HA82;P27544;Q8NFR3;Q96G23;O95292;Q969W0;Q9BW60}

22373 Pathogen[ P03383] interacts with 1 human partners:{Q9BW60}

22374 Pathogen[ P03410] interacts with 7 human partners:{O95292;P27544;Q96G23;Q9HA82;Q9BW60;Q969W0;Q8NFR3}

22375 Pathogen[ P14075] interacts with 2 human partners:{Q9BW60;Q969W0}

22376 Pathogen[ P0C206] interacts with 6 human partners:{Q96G23;Q8NFR3;O95292;Q9HA82;Q969W0;Q9BW60}

22377 Pathogen[ P03363] interacts with 1 human partners:{Q96G23}

22378 [Cluster 2035]GO:0001558+P biological\_process [name] regulation of cell growth

[def] "Any process that modulates the frequency, rate, extent or direction of cell growth." [GOC

22379 Pathogen[ Q2Q067] interacts with 13 human partners:{Q96J02;Q9H2G9;Q95997;Q99816;P56945;Q95990;Q5BJF2;Q08050;O14508;Q96KS0;Q15014;Q9UI95;O94763}

22380 Pathogen[ P0C214] interacts with 13 human partners:{Q96J02;Q9N2T2;P56945;Q15014;Q92560;Q96KS0;Q9UI95;P21127;Q9H2G9;O14508;Q99816;Q95997;O94763}

22381 Pathogen[ P03346] interacts with 17 human partners:{Q96J02;Q92560;Q9H2G9;P21127;O94763;Q99816;Q08050;Q9UI95;Q95997;Q5BJF2;O14508;P56945;Q95990;Q9N2T2;Q2LD37;Q15014;Q96KS0}

22382 Pathogen[ Q85601] interacts with 13 human partners:{Q99816;Q96J02;Q15014;Q9UI95;Q92560;O14508;P56945;Q96KS0;Q9H2G9;Q08050;P21127;O94763;Q95997}

22383 Pathogen[ P14079] interacts with 15 human partners:{Q15014;Q95990;Q5BJF2;Q2LD37;O94763;Q9H2G9;Q92560;Q9N2T2;O00559;Q96J02;P21127;Q95997;O14508;Q99816;Q96KS0}

22384 Pathogen[ P03383] interacts with 11 human partners:{Q15014;P56945;Q9UI95;Q9H2G9;Q99816;Q96KS0;P21127;O94763;Q5BJF2;Q95997;Q95990}

22385 Pathogen[ P03410] interacts with 14 human partners:{O94763;Q9UI95;Q9H2G9;Q15014;Q95990;Q96KS0;Q95997;O00559;Q99816;O14508;Q9N2T2;Q2LD37;P56945;Q5BJF2}

22386 Pathogen[ P14075] interacts with 14 human partners:{Q9H2G9;Q96KS0;Q15014;Q2LD37;Q08050;Q95997;Q9UI95;O94763;Q95990;P21127;Q99816;Q9UQ88;P56945;Q5BJF2}

22387 Pathogen[ P0C206] interacts with 17 human partners:{Q5BJF2;Q2LD37;Q96KS0;Q9N2T2;Q95997;Q96J02;Q99816;Q15014;Q95990;O14508;Q9H2G9;Q08050;P56945;P21127;Q92560;Q9UI95;O94763}

22388 Pathogen[ P03363] interacts with 15 human partners:{Q95990;P21127;Q15014;Q2LD37;Q92560;Q08050;O94763;Q9UI95;Q9H2G9;P56945;Q5BJF2;Q99816;Q95997;O14508;Q9N2T2}

22389 [Cluster 2036]GO:0045901+P biological\_process [name] positive regulation of translational elongation [def] "Any process that activates or increases the frequency, rate or extent of translational elongation." [GOC

22390 Pathogen[ Q2Q067] interacts with 3 human partners:{P63241;Q6IS14;Q9GZV4}

22391 Pathogen[ P0C214] interacts with 3 human partners:{Q6IS14;Q9GZV4;P63241}

22392 Pathogen[ P03346] interacts with 3 human partners:{Q9GZV4;P63241;Q6IS14}

22393 Pathogen[ Q85601] interacts with 4 human partners:{Q9Y5T5;Q9GZV4;P63241;Q6IS14}

22394 Pathogen[ P14079] interacts with 3 human partners:{Q6IS14;P63241;Q9GZV4}

22395 Pathogen[ P03383] interacts with 2 human partners:{Q9GZV4;P63241}

22396 Pathogen[ P03410] interacts with 3 human partners:{P63241;Q9GZV4;Q6IS14}

22397 Pathogen[ P14075] interacts with 2 human partners:{Q9GZV4;P63241}

22398 Pathogen[ P0C206] interacts with 4 human partners:{Q9GZV4;Q6IS14;Q9Y5T5;P63241}

22399 Pathogen[ P03363] interacts with 3 human partners:{Q9GZV4;P63241;Q6IS14}

22400 [Cluster 2037]GO:0051294+P biological\_process [name] establishment of spindle orientation [def] "Any process that set the alignment of spindle relative to other cellular structures." [GOC

22401 Pathogen[ Q2Q067] interacts with 2 human partners:{Q7Z460;P27816}

22402 Pathogen[ P0C214] interacts with 2 human partners:{P27816;Q7Z460}

22403 Pathogen[ P03346] interacts with 2 human partners:{P27816;Q7Z460}

22404 Pathogen[ Q85601] interacts with 2 human partners:{P27816;Q7Z460}

22405 Pathogen[ P14079] interacts with 2 human partners:{Q7Z460;P27816}

22406 Pathogen[ P03383] interacts with 2 human partners:{Q7Z460;P27816}

22407 Pathogen[ P03410] interacts with 2 human partners:{Q7Z460;P27816}

22408 Pathogen[ P14075] interacts with 2 human partners:{Q7Z460;P27816}

22409 Pathogen[ P0C206] interacts with 2 human partners:{P27816;Q7Z460}

22410 Pathogen[ P03363] interacts with 2 human partners:{P27816;Q7Z460}

22411 [Cluster 2038]GO:0007098+P biological\_process [name] centrosome cycle [def] "The cell cycle process in which centrosome duplication and separation takes place. The centrosome cycle can operate with a considerable degree of independence from other processes of the cell cycle." [ISBN

22412 Pathogen[ Q2Q067] interacts with 3 human partners:{P06748;P24522;O15182}

22413 Pathogen[ P0C214] interacts with 2 human partners:{P24522;P06748}

22414 Pathogen[ P03346] interacts with 3 human partners:{P06748;O15182;P24522}

22415 Pathogen[ Q85601] interacts with 3 human partners:{O15182;P24522;P06748}

22416 Pathogen[ P14079] interacts with 3 human partners:{P24522;P06748;O15182}

22417 Pathogen[ P03383] interacts with 2 human partners:{P06748;P24522}

22418 Pathogen[ P03410] interacts with 3 human partners:{P24522;O15182;P06748}

22419 Pathogen[ P14075] interacts with 2 human partners:{P06748;P24522}

22420 Pathogen[ P0C206] interacts with 3 human partners:{O15182;P24522;P06748}

22421 Pathogen[ P03363] interacts with 3 human partners:{P06748;P24522;O15182}

22422 [Cluster 2039]GO:0006457+P biological\_process [name] protein folding [def] "The process of assisting in the covalent and noncovalent assembly of single chain polypeptides or multisubunit complexes into the correct tertiary structure." [GOC

22423 Pathogen[ Q2Q067] interacts with 57 human

- partners: {Q9BTW9; Q9UNP9; Q13356; Q9H2H8; Q9HAV7; O95433; P49792; Q13427; O43447; P38646; P61604; P50502; P08238; P18850; O76031; Q8IWL3; P07900; O75347; Q9Y237; P02511; Q8TAA5; Q99471; O00170; Q9UBS4; P11142; P27797; Q9UDY4; Q9UBS3; P17987; Q9NZL4; Q9NQP4; Q9UBK9; O75190; P50991; O14656; Q9UHV9; Q99615; P25685; Q9NZJ4; Q16401; Q53G26; Q15257; Q13526; Q95817; Q08752; P61758; O75953; P78371; P23284; Q13952; P31689; Q96EY1; O94763; P62937; Q9NZD4; P14625; O95429}
- 22424 Pathogen[ P0C214] interacts with 83 human  
partners: {Q9Y536; O00170; Q9NZL4; P18850; Q9UDY4; Q58FG0; P60709; O95817; P14625; Q99832; Q58FF7; Q13952; P49368; Q9HAV7; O75347; P78371; Q6UX04; A2BFH1; P02511; P48643; P61758; O75190; Q9BTW9; Q13526; P30405; P61604; Q58FG1; O14656; Q13427; P49792; P23284; Q15257; Q9UBS3; P30414; Q8WW22; Q8IWL3; Q9UBS4; Q99615; Q9H2H8; O76031; Q14696; Q9NZJ4; Q9Y237; Q99614; P45877; Q9UHV9; Q9Y3C6; Q9NZD4; P49257; F5H284; Q13356; P38646; P10809; O95429; Q53G26; Q8TAA5; Q58FF3; Q58FF6; P49588; Q96BP3; O43447; P27797; Q99471; Q58FF8; O60925; P17987; O60884; Q08752; P50991; Q8IXY8; O94763; Q5F1R6; Q9NQP4; Q14568; Q9UNP9; Q9UBK9; O95433; O75953; Q96EY1; Q16401; P50502; P11142; P25685}
- 22425 Pathogen[ P03346] interacts with 70 human  
partners: {Q5F1R6; Q99615; Q9UBS3; Q9H2H8; P07900; P25685; O43447; Q9Y3C6; O75190; P14625; P50502; Q9NZL4; Q99471; Q9UHV9; O14656; O94763; Q6UX04; Q9NZD4; P49257; P61604; Q9NQP4; P62937; P78371; Q15257; Q16401; P60709; O00170; Q96BP3; P11142; P25686; Q9H173; Q13526; Q9NZJ4; Q13427; O95433; O76031; P18850; O75347; Q9HAV7; P38646; Q9Y237; P02511; Q08752; P50991; O95817; P49368; P31689; Q53G26; Q9UNP9; Q13356; P27797; Q96KC8; Q13952; Q9UBS4; O60925; Q9Y536; Q9UDY4; O95429; P61758; Q9UBK9; Q8TAA5; P08238; O75953; Q99614; A2BFH1; Q8IWL3; Q96EY1; P49792; P23284; P17987}
- 22426 Pathogen[ Q85601] interacts with 75 human  
partners: {F5H284; P30405; Q6UX04; A2BFH1; Q9H2H8; P31689; Q8TAA5; Q9NQP4; Q96BP3; O75190; Q9UBS3; Q58FF8; Q99471; Q53G26; O95433; P61604; Q9UHV9; Q9UBS4; Q9BTW9; Q8WW22; P61758; O60884; P27797; P17987; P25685; Q13952; Q13427; O75953; P60709; Q08752; O00170; P50991; P49257; Q13526; P02511; P11142; P23284; O75347; P08238; Q9Y3C6; Q9HAV7; Q99615; O14656; P18850; Q9UDY4; Q9NZD4; Q13356; P07900; P30414; O43447; P14625; P38646; O76031; O94763; Q9NZJ4; Q58FF3; P49792; P50502; P78371; Q8IWL3; Q8IXY8; P48643; Q9NZL4; Q15257; Q9UBK9; Q9Y536; O95429; Q14568; P62937; O95817; Q9Y237; Q96EY1; Q16401; P45877; Q5F1R6}
- 22427 Pathogen[ P14079] interacts with 82 human  
partners: {Q13952; Q9BTW9; P48643; O43447; O95816; P49257; O60925; P11142; Q8IXY8; Q08752; Q9NZJ4; P30040; O95817; Q9Y237; Q9UBS3; P02511; O00170; Q14696; O95429; Q8IWL3; P50991; Q9UBS4; Q9UDY4; P78371; O95433; P68363; Q9UHV9; P50990; P62937; Q9NQP4; Q13427; O75190; P61758; F5H284; O75352; P25685; Q9NYU1; P61604; O94763; Q99614; Q9NUG6; Q15814; O14656; Q13356; P45877; Q9NYU2; Q9UL15; P08238; P17987; Q9H2H8; Q9NZD4; Q9UBK9; O75953; P07900; P60709; A2BFH1; Q7Z5B4; P18850; P14625; P38646; P31689; Q9H0V9; Q99615; O75347; Q99471; O76031; P23284; P49588; Q6UX04; Q13526; P49368; Q5F1R6; Q9Y536; Q8WW22; O60884; P50502; Q16401; Q96BP3; Q9NZL4; Q96EY1; Q9HAV7; Q8TAA5}
- 22428 Pathogen[ P03383] interacts with 52 human  
partners: {Q9UHV9; P49792; Q13356; Q9UNP9; O95433; P38646; P50502; Q15257; Q96BP3; P61604; Q9H2H8; Q9HAV7; P02511; P62937; O00170; P07900; Q08752; Q9NQP4; P31689; O75190; O43447; Q9UBS4; Q9UBS3; Q13952; O94763; Q13427; O75347; Q9UDY4; Q14696; Q99471; P14625; Q99615; Q9NZL4; P11142; Q8IWL3; Q8TAA5; P78371; Q16401; O60925; P23284; O76031; P18850; Q9UBK9; P61758; P08238; O75953; Q96EY1; O95429; Q13526; Q53G26; P27797; Q9NZD4}
- 22429 Pathogen[ P03410] interacts with 95 human  
partners: {Q9UDY4; P17987; O94763; P49368; Q99832; Q9H0V9; P48643; Q53G26; Q7Z5B4; P49257; P50502; P38646; Q16401; P08238; Q08752; O14656; P25685; Q13526; Q9Y536; P49588; Q96BP3; Q99614; P61604; Q15257; P30040; P14625; O95816; Q8TAA5; P25686; P11142; P07900; O75953; Q15814; Q9UBK9; Q9UBS3; Q5F1R6; Q99615; O95817; Q9NUG6; Q13356; Q9H2H8; O76031; Q99471; P62937; Q9NZJ4; P50990; Q9NYU1; O75190; O00170; Q9BTW9; O95429; P02511; Q58FF3; P61758; Q8IWL3; P45877; Q13952; Q9BVA1; Q9H173; Q9UL15; Q6UX04; Q9NQP4; O60884; O75347; Q9UBS4; P68363; O60925; P78371; Q9Y3C6; P31689; P23284; Q9UHV9; Q9UNP9; F5H284; Q9NZL4; O75352; Q8IXY8; Q9HAV7; P30414; Q8WW22; Q14696; O95433; Q13427; Q9Y237; O43447; P18850; Q96EY1; P30405; A2BFH1; P60709; P50991; P49792; Q9NYU2; Q9NZD4; P27797}
- 22430 Pathogen[ P14075] interacts with 50 human  
partners: {O75953; Q9UBS3; Q15257; Q9HAV7; P31689; Q08752; P11142; O75347; P23284; Q99615; P61604; Q8TAA5; P49792; Q9UNP9; O95433; P78371; Q53G26; Q16401; Q9UDY4; P08238; Q13952; P38646; O94763; Q9UHV9; O76031; P07900; O00170; Q13526; Q9UBK9; P50502; Q14696; P27797; Q9NQP4; P02511; P61758; O43447; O75190; P62937; O60925; Q13427; Q9UBS4; Q9H2H8; P14625; Q9NZD4; Q99471; Q8IWL3; Q9NZL4; Q96EY1; O95429; P18850}
- 22431 Pathogen[ P0C206] interacts with 79 human  
partners: {Q9Y536; Q9UNP9; P48643; P60709; Q9UDY4; P27797; Q13526; P18850; Q7Z5B4; Q08752; Q96BP3; Q5F1R6; Q9BTW9; Q99615; Q53G26; Q9UBS4; Q9HAV7; Q9NZJ4; P50991; P17987; O60884; Q99471; A2BFH1; P38646; Q15814; Q9UHV9; O95816; F5H284; Q13952; P49792; P50502; O60925; Q8WW22; P08238; Q9Y3C6; O95429; Q58FF3; Q13427; P07900; O14656; P49257; Q9NZL4; P23284; Q8TAA5; Q13356; O43447; Q9Y237; O75953; P49368; O95817; P61758; Q9UBS3; P25685; P45877; Q9UBK9; Q9H2H8; Q14696; Q8IWL3; O00170; O75347; Q99614; P02511; O76031; P30405; Q9NZD4; Q96EY1; P62937; P11142; Q15257; P78371; Q9NQP4; Q16401; P31689; O94763; P61604; Q8IXY8; O75190; P14625; Q6UX04}
- 22432 Pathogen[ P03363] interacts with 67 human  
partners: {O75190; P23284; O75953; Q99615; O75347; Q13427; P62937; P07900; A2BFH1; P60709; Q9NZJ4; P50502; Q9NZL4; Q9UHV9; Q13952; Q6UX04; Q13356; Q96BP3; P18850; Q9Y3C6; P68363; Q9UBS3; Q08752; Q9UDY4; Q5F1R6; Q9UBK9; Q13526; Q99471; O43447; O95817; Q53G26; P50991; Q9NZN9; Q13748; O60925; O95433; P27797; O94763; Q9UBS4; P38646; Q15814; Q9BTW9; P17987; P49792; Q8TAA5; P61758; O76031; Q8IWL3; Q9NZD4; Q9NUG6; Q9Y237; P25685; Q15257; P78371; Q9Y536; Q99614; Q9NQP4; O95429; Q96EY1; P08238; P48643; O00170; Q9H2H8; Q9UNP9; P11142; P61604; P49368}
- 22433 [Cluster 2040]GO:0051056+P biological\_process [name] regulation of small GTPase mediated signal transduction [def] "Any process that modulates the frequency, rate or

extent of small GTPase mediated signal transduction." [GOC  
22434 Pathogen[ Q2Q067] interacts with 3 human partners:{P60953;P63000;P61586}  
22435 Pathogen[ P0C214] interacts with 7 human  
partners:{P63000;P31150;P61586;P60953;P52565;Q6GYQ0;P98171}  
22436 Pathogen[ P03346] interacts with 11 human  
partners:{P98171;Q96FS4;Q12802;P60953;P52565;P31150;Q6GYQ0;Q5VV41;Q9H8V3;P63000;P615  
86}  
22437 Pathogen[ Q85601] interacts with 5 human  
partners:{P31150;P63000;P52565;P61586;P60953}  
22438 Pathogen[ P14079] interacts with 9 human  
partners:{P52565;P31150;P98171;P10911;Q12802;P61586;Q9H8V3;Q86X10;Q5VV41}  
22439 Pathogen[ P03383] interacts with 3 human partners:{P60953;P63000;P61586}  
22440 Pathogen[ P03410] interacts with 9 human  
partners:{P63000;P98171;P61586;Q5VV41;P60953;Q9H8V3;Q15283;P31150;P52565}  
22441 Pathogen[ P14075] interacts with 3 human partners:{P60953;P61586;P63000}  
22442 Pathogen[ P0C206] interacts with 7 human  
partners:{P52565;P61586;P63000;Q9H8V3;P60953;P31150;P98171}  
22443 Pathogen[ P03363] interacts with 9 human  
partners:{P52565;Q5VV41;P31150;P98171;P63000;P10911;Q7Z5H3;P60953;Q96FS4}  
22444 [Cluster 2041]GO:0050900+P biological\_process [name] leukocyte migration [def] "The  
movement of a leukocyte within or between different tissues and organs of the body."  
[GOC  
22445 Pathogen[ Q2Q067] interacts with 5 human  
partners:{Q13356;Q12904;P27986;P35579;P62937}  
22446 Pathogen[ P0C214] interacts with 4 human partners:{Q12904;P62993;Q13356;P27986}  
22447 Pathogen[ P03346] interacts with 8 human  
partners:{P35579;P62937;P62993;P26038;Q12904;Q13356;Q8TAU0;P27986}  
22448 Pathogen[ Q85601] interacts with 5 human  
partners:{P62993;P35579;P27986;Q13356;P62937}  
22449 Pathogen[ P14079] interacts with 9 human  
partners:{P35579;Q8N6Q3;Q14242;Q08722;P26038;P62937;Q13356;P62993;Q12904}  
22450 Pathogen[ P03383] interacts with 5 human  
partners:{P27986;Q12904;Q13356;P62937;P35579}  
22451 Pathogen[ P03410] interacts with 10 human  
partners:{P27986;Q8N6Q3;Q14242;P35579;Q12904;Q13356;P62937;P26038;Q08722;P62993}  
22452 Pathogen[ P14075] interacts with 4 human partners:{Q12904;P27986;P35579;P62937}  
22453 Pathogen[ P0C206] interacts with 7 human  
partners:{P27986;P62993;P35579;Q13356;Q8TAU0;P62937;Q12904}  
22454 Pathogen[ P03363] interacts with 5 human  
partners:{P62937;P35579;Q13356;Q8TAU0;P27986}  
22455 [Cluster 2042]GO:2000648+P biological\_process [name] positive regulation of stem cell  
proliferation [def] "Any process that activates or increases the frequency, rate or  
extent of stem cell proliferation." [GOC  
22456 Pathogen[ Q2Q067] interacts with 1 human partners:{Q7Z7J5}  
22457 Pathogen[ P0C214] interacts with 1 human partners:{Q7Z7J5}  
22458 Pathogen[ P03346] interacts with 1 human partners:{Q7Z7J5}  
22459 Pathogen[ Q85601] interacts with 1 human partners:{Q7Z7J5}  
22460 Pathogen[ P14079] interacts with 1 human partners:{Q7Z7J5}  
22461 Pathogen[ P03383] interacts with 1 human partners:{Q7Z7J5}  
22462 Pathogen[ P03410] interacts with 1 human partners:{Q7Z7J5}  
22463 Pathogen[ P14075] interacts with 1 human partners:{Q7Z7J5}  
22464 Pathogen[ P0C206] interacts with 1 human partners:{Q7Z7J5}  
22465 Pathogen[ P03363] interacts with 1 human partners:{Q7Z7J5}  
22466 [Cluster 2043]GO:0007623+P biological\_process [name] circadian rhythm [def] "Any  
biological process in an organism that recurs with a regularity of approximately 24  
hours." [GOC  
22467 Pathogen[ Q2Q067] interacts with 5 human  
partners:{Q8WYA1;O14503;Q9UNS1;Q16649;Q16526}  
22468 Pathogen[ P0C214] interacts with 8 human  
partners:{O60346;Q16613;O14503;Q9UNS1;Q49AN0;Q8WYA1;P05412;Q16526}  
22469 Pathogen[ P03346] interacts with 16 human  
partners:{P05412;O60346;Q49AN0;Q9UNS1;Q16526;O43316;O15055;O15534;O14503;O00327;Q9C0  
J9;Q16649;Q8WYA1;O15516;P56645;Q8N100}  
22470 Pathogen[ Q85601] interacts with 15 human  
partners:{O60346;O43316;O15534;P56645;Q49AN0;O15516;Q8WYA1;Q16613;O00327;O14503;Q166  
49;P05412;O15055;Q16526;Q9UNS1}  
22471 Pathogen[ P14079] interacts with 13 human  
partners:{Q16526;Q16649;Q49AN0;O60346;Q16613;P11686;P56645;O14503;O15055;P05412;Q8WY  
A1;Q9UNS1;O15534}  
22472 Pathogen[ P03383] interacts with 5 human  
partners:{Q9UNS1;Q16613;O14503;P05412;Q16526}  
22473 Pathogen[ P03410] interacts with 12 human  
partners:{O15055;Q16649;P11686;P56645;Q16613;O15534;Q16526;Q49AN0;P05412;O60346;Q9UN  
S1;Q8WYA1}  
22474 Pathogen[ P14075] interacts with 5 human  
partners:{P05412;Q16613;O14503;Q9UNS1;Q16526}

22475 Pathogen[ P0C206] interacts with 15 human partners:{Q9UNSL;Q16649;P05412;O15534;Q9C0J9;O00327;Q16526;O15516;P56645;Q8WYA1;O15055;O60346;Q49AN0;Q16613;O43316}

22476 Pathogen[ P03363] interacts with 13 human partners:{Q16649;Q9C0J9;O43316;P56645;Q49AN0;Q8WYA1;O00327;Q9UNSL;Q16526;P05412;O15055;O15534;O14503}

22477 [Cluster 2044]GO:0000188+P biological\_process [name] inactivation of MAPK activity [def] "Any process that terminates the activity of the active enzyme MAP kinase." [PMID

22478 Pathogen[ Q2Q067] interacts with 5 human partners:{P30153;P67775;Q13227;Q16829;Q7Z699}

22479 Pathogen[ P0C214] interacts with 5 human partners:{P30153;Q7Z699;P67775;Q16829;Q13227}

22480 Pathogen[ P03346] interacts with 7 human partners:{Q8IWW1;P67775;P30153;Q13098;Q13227;Q16829;Q7Z699}

22481 Pathogen[ Q85601] interacts with 6 human partners:{Q16829;P30153;Q13098;P67775;Q7Z699;Q13227}

22482 Pathogen[ P14079] interacts with 6 human partners:{Q16829;Q13098;Q7Z699;Q13227;Q8IWW1;P30153}

22483 Pathogen[ P03383] interacts with 3 human partners:{P30153;P67775;Q13227}

22484 Pathogen[ P03410] interacts with 7 human partners:{Q13227;Q7Z699;Q13098;Q8IWW1;Q16829;P30153;P67775}

22485 Pathogen[ P14075] interacts with 4 human partners:{Q8IWW1;Q13227;P67775;P30153}

22486 Pathogen[ P0C206] interacts with 7 human partners:{P30153;Q8IWW1;P67775;Q16829;Q13098;Q13227;Q7Z699}

22487 Pathogen[ P03363] interacts with 6 human partners:{Q13227;Q7Z699;Q16829;P30153;P67775;Q13098}

22488 [Cluster 2045]GO:0032525+P biological\_process [name] somite rostral/caudal axis specification [def] "The establishment, maintenance and elaboration of the rostro-caudal axis of a somite, prior to the morphological formation of a somite boundary." [GOC

22489 Pathogen[ Q2Q067] interacts with 3 human partners:{Q0D2K3;Q13485;Q5TAB7}

22490 Pathogen[ P0C214] interacts with 4 human partners:{P32243;Q5TAB7;Q13485;Q0D2K3}

22491 Pathogen[ P03346] interacts with 4 human partners:{Q13485;Q0D2K3;Q5TAB7;P32243}

22492 Pathogen[ Q85601] interacts with 4 human partners:{P32243;Q0D2K3;Q5TAB7;Q13485}

22493 Pathogen[ P14079] interacts with 3 human partners:{P32243;Q0D2K3;Q5TAB7}

22494 Pathogen[ P03383] interacts with 4 human partners:{Q5TAB7;Q0D2K3;Q13485;P32243}

22495 Pathogen[ P03410] interacts with 4 human partners:{Q5TAB7;Q0D2K3;Q13485;P32243}

22496 Pathogen[ P14075] interacts with 4 human partners:{Q0D2K3;Q5TAB7;Q13485;P32243}

22497 Pathogen[ P0C206] interacts with 4 human partners:{Q0D2K3;P32243;Q13485;Q5TAB7}

22498 Pathogen[ P03363] interacts with 4 human partners:{Q0D2K3;P32243;Q5TAB7;Q13485}

22499 [Cluster 2046]GO:0060699+P biological\_process [name] regulation of endoribonuclease activity [def] "Any process that modulates the rate, frequency or extent of the catalysis of the hydrolysis of ester linkages within ribonucleic acid by creating internal breaks." [GOC

22500 Pathogen[ Q2Q067] interacts with 1 human partners:{P06748}

22501 Pathogen[ P0C214] interacts with 1 human partners:{P06748}

22502 Pathogen[ P03346] interacts with 1 human partners:{P06748}

22503 Pathogen[ Q85601] interacts with 1 human partners:{P06748}

22504 Pathogen[ P14079] interacts with 1 human partners:{P06748}

22505 Pathogen[ P03383] interacts with 1 human partners:{P06748}

22506 Pathogen[ P03410] interacts with 1 human partners:{P06748}

22507 Pathogen[ P14075] interacts with 1 human partners:{P06748}

22508 Pathogen[ P0C206] interacts with 1 human partners:{P06748}

22509 Pathogen[ P03363] interacts with 1 human partners:{P06748}

22510 [Cluster 2047]GO:0016485+P biological\_process [name] protein processing [def] "Any protein maturation process achieved by the cleavage of a peptide bond or bonds within a protein. Protein maturation is the process leading to the attainment of the full functional capacity of a protein." [GOC

22511 Pathogen[ Q2Q067] interacts with 1 human partners:{P42575}

22512 Pathogen[ P0C214] interacts with 4 human partners:{P10124;P42574;P55210;P42575}

22513 Pathogen[ P03346] interacts with 3 human partners:{P42575;P42574;P55210}

22514 Pathogen[ Q85601] interacts with 2 human partners:{P42575;P55210}

22515 Pathogen[ P14079] interacts with 7 human partners:{Q92542;Q9NZ42;P55210;Q4AC94;P10124;Q8WW43;P42575}

22516 Pathogen[ P03383] interacts with 1 human partners:{P10124}

22517 Pathogen[ P03410] interacts with 7 human partners:{P42575;Q4AC94;P10124;Q9NZ42;Q8WW43;Q92542;P55210}

22518 Pathogen[ P14075] interacts with 1 human partners:{P10124}

22519 Pathogen[ P0C206] interacts with 6 human partners:{Q9NZ42;Q92542;P42574;P42575;P55210;P10124}

22520 Pathogen[ P03363] interacts with 1 human partners:{P55210}

22521 [Cluster 2048]GO:0030154+P biological\_process [name] cell differentiation [def] "The process in which relatively unspecialized cells, e.g. embryonic or regenerative cells, acquire specialized structural and/or functional features that characterize the cells, tissues, or organs of the mature organism or some other relatively stable phase of the organism's life history. Differentiation includes the processes involved in commitment

- of a cell to a specific fate and its subsequent development to the mature state." [ISBN  
22522 Pathogen[ Q2Q067] interacts with 123 human  
partners: {Q13562;P49454;Q9H4I2;Q96TC7;O43463;P27540;P25490;Q9H3C7;P02538;P31749;O14786;Q96D98;P15884;Q9NVM4;Q5D1E8;Q05066;Q5TAP6;Q9BUP3;Q8TD31;Q99081;Q14160;O00291;Q8NCR6;Q5VZB9;O95257;Q9HAZ2;O60481;Q9UI56;Q99816;P48380;Q32MQ0;P13349;Q96004;Q9UL49;Q8HW S3;P08151;P37275;O75081;Q9HD15;P49116;Q9UM82;Q9BXL5;Q8IXT2;Q14814;Q96AQ6;Q16626;Q9NX R1;Q92754;P52594;Q86YF9;Q2M1K9;O14896;Q14934;P17036;P17676;Q9Y4Z2;O00458;Q13769;Q96E K5;Q7Z6Z7;Q5BJF6;P15172;Q86VP6;Q9NZP6;Q9P2T0;P78545;P58340;Q9Y3M2;Q99966;P61247;P237 69;Q14997;Q99750;Q96M53;P56693;Q9H9C1;Q9UKY1;Q12834;P28062;Q9H091;Q96EK7;Q9ULH7;P412 12;Q8WVJ9;Q9Y6B2;O75030;Q7Z7C8;O00139;Q9HBH7;Q13363;Q86TG7;Q9UN36;P78395;Q13155;Q076 87;O60248;Q13642;Q12824;P60953;Q96PU4;Q9UJX6;O60869;Q8N6I1;Q02577;Q03060;Q13404;P159 23;Q15834;P61586;Q9H5I1;Q99814;Q16352;Q14781;Q01534;A7MD48;P23409;Q13501;Q02078;P404 24;P49715;Q03112;Q9BXJ9;Q00534}
- 22523 Pathogen[ P0C214] interacts with 125 human  
partners: {P40424;Q9UJX6;Q14997;P61247;P51114;P32243;Q9H5I1;O14786;Q96M53;Q8TD31;Q133 63;P28062;Q8NCR6;P02538;Q12824;P62993;P46379;Q13769;O00458;Q9HD15;Q99081;P15884;P133 49;Q03112;P0CW01;Q9NVM4;P23769;Q9HBH7;P56693;Q16352;P61586;Q9ULP0;P15172;Q96PU4;Q7Z7 C8;Q2M1K9;P60953;Q13404;P37275;O75030;P78395;O00139;Q9H091;Q96EK7;O43463;Q96TC7;Q96Q 05;Q99750;Q8N6I1;Q9P2T0;P0CV99;Q9H4I2;Q9H3C7;P17676;Q9NZP6;Q01534;Q5VZB9;O95257;Q020 78;Q9HCE7;Q13501;Q13642;Q99966;Q14814;Q92754;Q15834;Q00534;Q9BUP3;P49116;Q07687;P159 23;Q9Y3M2;Q96D98;Q9Y6B2;Q12834;Q9HAZ2;Q14896;P0CW00;Q9BXJ9;P07093;Q14934;Q96AQ6;Q141 60;Q5TAP6;Q99816;Q8WVJ9;Q14781;P58340;Q02577;Q03060;Q9UM82;P17036;Q99814;Q86TG7;Q7Z6 Z7;Q5BJF6;Q9UI56;Q96004;P27540;P08151;P48380;P78545;Q5H9L4;Q9ULH7;P52594;Q9H9C1;P162 20;O60869;Q9NXR1;Q86YF9;P49454;Q5D1E8;Q9UN36;Q86VP6;O75081;O60248;O00291;Q8HWS3;P317 49;Q13155;P0CV98;Q32MQ0;A6NKD2;P41212;O60481}
- 22524 Pathogen[ P03346] interacts with 212 human  
partners: {Q99081;P85037;Q14781;Q8NEA9;Q9BZE0;Q3YBM2;O75603;P02538;Q6T4R5;Q01534;Q9Y4 Z2;Q16352;Q02078;P52954;Q86UU5;Q6QHK4;Q99966;Q15834;Q9H091;Q96PU8;P58012;Q14814;Q995 98;Q7RTS3;Q32MQ0;Q01538;Q16626;P16220;Q5TAP6;Q9H2W2;O60248;P17676;Q693B1;Q8NHU6;Q050 66;Q9Y3M2;Q9HD90;O00458;Q9BUP3;Q9ULP0;Q14774;Q9UM82;Q9HBH7;P13349;Q96M53;O60393;Q96A Q6;Q96HZ4;O00139;Q99626;Q2M1K9;P49116;Q7Z7C8;P23769;Q9HD15;P25490;Q9N18;P48380;P159 23;P15172;P56693;Q9UL68;Q8NCR6;Q92858;Q99426;P23409;Q9ULH7;Q86TG7;Q9NXR1;Q99816;Q9P2 T0;Q92886;Q96J94;P56177;P28062;P15173;Q5JSS6;P60953;P62993;Q96QS3;Q12824;Q96TC7;P275 40;P58340;A6NJT0;Q02575;Q96EK7;Q13769;O75030;O43316;A2RU54;O00291;P49715;Q92754;O434 63;Q9UBC0;Q9NZP6;Q96SQ7;Q8TD31;Q12834;P78426;Q13404;A7MD48;Q86YF9;Q14934;Q86W54;Q9BW F3;Q9HB31;O96004;P17036;Q9UJX6;Q13155;P51843;Q6UW56;Q9UL49;Q06710;Q8HWS3;P17542;O604 81;Q9C0J9;Q496M5;Q96D98;O95096;P31749;P78395;O60519;Q9H4I2;Q96Q05;Q8IXT2;Q03112;Q9C0 C7;P46379;P52594;Q8WVJ9;Q02548;Q99750;Q9NVM4;Q5JUK2;Q9BXL5;Q9BXJ9;Q5D1E8;O14896;P372 75;P61247;Q8N6I1;Q8IUQ4;Q99814;Q9Y5R6;A6NI15;P98177;Q5BJF6;Q07820;Q96EK5;Q13642;Q141 90;Q92832;Q9UBR4;Q9H9C1;Q99929;Q5XKR4;Q8TBZ2;Q13363;Q9NTU4;Q14997;Q9NTU4;Q86VP6;Q9UI 56;P40424;P41212;Q03060;Q00534;Q96PU4;P56545;Q9UKY1;Q14160;Q5H9L4;Q9H8V3;P51114;Q9NQ L9;O95257;O60869;P78545;Q9Y6Q3;Q9H5I1;Q5VZB9;Q9UN36;Q9HAZ2;Q01101;Q9H9S0;Q13562;P322 43;Q9H3C7;Q9NQZ3;Q5BKX8;Q02577;Q7Z6Z7;Q13285;Q96NK8;O75081;Q96IK5;O14786;P49454;Q9UJ C3;P15884;Q9HCC6;Q13501;Q8N100;Q9UBP0;P08151;P61586;Q99581;Q9H2A3}
- 22525 Pathogen[ Q85601] interacts with 137 human  
partners: {Q9H5I1;Q99816;Q8IXT2;P49454;P02538;O00458;P08151;O14896;Q02078;P17676;O604 81;O43316;Q9UJX6;P31749;P62993;Q15834;Q9Y4Z2;Q92754;Q01538;P15172;Q9UN36;Q9Y3M2;P170 36;Q13769;Q32MQ0;Q9UBP0;P13349;Q7Z7C8;Q13155;Q2M1K9;Q99966;P0CW01;Q9H3C7;O75030;Q96E K7;Q5H9L4;Q14814;Q03112;Q01534;P23769;Q9NVM4;P78545;Q96PU4;P46379;Q9ULH7;P25490;Q136 42;Q86VP6;P0CV98;Q99814;P27540;Q13363;Q5BJF6;P52594;Q14786;Q96004;O43463;P0CW 00;Q9NZP6;Q12834;Q9H9C1;Q13404;Q9UM82;Q13562;Q14934;Q86W54;Q8N6I1;P41212;Q9H4I2;P234 09;Q9Y6B2;P40424;Q9HD15;Q96D98;Q9Y4I5;P58340;P16220;Q96Q05;P28062;O60248;Q02577;Q997 50;Q9BXJ9;Q5VZB9;O95257;Q14160;Q9HBH7;P61586;P15923;P32243;P56693;P49715;Q9P2T0;P372 75;P60953;A6NKD2;Q7Z6Z7;Q86TG7;O00291;Q96TC7;Q99081;P49116;Q9UKY1;Q96M53;Q00534;P163 52;O60869;P48380;Q496M5;Q9Y6Q3;Q9NXR1;P07093;P17677;Q7Z7L9;P0CV99;Q12824;P61247;P783 95;Q9GZM8;Q9BUP3;Q9H091;Q03060;Q96AQ6;O00139;Q07687;Q8HWS3;Q8TD31;Q86YF9;P15884;Q5D1 E8;Q8WVJ9;P51114;Q13501;O75081;Q9HAZ2;Q14781}
- 22526 Pathogen[ P14079] interacts with 155 human  
partners: {Q96EK7;Q8WYA0;Q32MQ0;Q9UGV2;P08151;Q9HAZ2;Q9H295;Q6T4R5;P27216;Q5D1E8;O002 91;P17677;Q02078;Q99814;Q06413;Q9Y6Q3;Q9UJC3;Q7Z7L9;P13349;Q01534;Q5H9L4;O60481;Q9UM 82;P23409;Q99581;O14896;Q96M53;Q9H9C1;Q8IXT2;Q9NP84;Q9NR12;Q9NVM4;Q13404;Q9BXJ9;Q9UI 56;Q8NHU6;Q03060;P48380;Q01538;Q9ULP0;Q8WVJ9;Q99966;O96004;P52594;Q9P2T0;Q9Y4F9;Q96K 83;O60869;Q14444;Q9H3C7;P15923;Q5TAP6;Q5JSS6;Q9Y4I5;Q9H5I1;O96005;Q9BUP3;Q9NTU4;Q137 69;Q9UKY1;Q86UU5;Q6PUV4;Q8HWS3;Q96D98;Q5BJF6;Q9UL49;Q14997;Q13642;Q14781;A7MD48;P280 62;Q9ULH7;A6NGB9;Q96EK5;Q96PU9;O60248;Q14093;P49715;Q14934;Q99426;Q92832;O00139;Q2M1 K9;P27540;Q86X24;Q9HD15;Q9HBH7;Q9NZP6;P35663;P61586;O43294;Q9H8V3;Q5VZB9;Q96AQ6;Q158 34;Q96Q05;Q86VD1;Q9H091;Q9H3Y8;Q92754;Q8TD31;Q13501;P56693;Q9GZM8;Q9UJX6;P32243;P412 12;O75081;Q8WWZ3;Q16626;Q07687;Q14814;Q86TG7;Q9Y3M2;P62993;O00458;O75293;Q86YF9;Q025 77;Q13155;Q2TAA8;P15884;P78545;Q13164;P78395;P49454;Q99598;Q9BXL5;Q12824;Q99081;P491 16;Q96JY0;Q86VP6;Q9NXR1;Q9Y6B2;O75030;Q99816;P25490;P61247;Q9H4I2;Q96TC7;Q9UN36;O952 57;Q8N6I1;O15259;P23769;Q9BZE0;Q3YBM2;P37275;Q8NCR6;P58340;Q99750;Q7Z5L4;Q9Y2G1;Q9GZ M5}
- 22527 Pathogen[ P03383] interacts with 108 human  
partners: {Q02577;P49454;O00458;Q86UU5;Q16352;Q9NTU4;Q96TC7;Q8HWS3;P16220;P27540;Q128 24;Q14160;P32243;Q32MQ0;Q16626;Q9H4I2;Q8N6I1;O60248;Q9UJX6;P15172;Q8WVJ9;Q07687;P583 40;Q5TAP6;Q13769;P40424;Q3YBM2;P49116;Q9UL49;P31749;O43463;Q96AQ6;P60953;Q5H9L4;P483

- 80;Q9H9C1;P23769;Q5D1E8;P37275;O75030;Q96PU4;P61247;P15923;Q86TG7;Q99816;Q14814;Q149  
97;Q9UN36;Q00534;Q8TD31;Q13155;Q9NZP6;Q9BXL5;Q12834;Q9HAZ2;Q14934;Q96004;Q03112;O002  
91;A7MD48;O75081;Q9HD15;Q9BXJ9;Q9Y6B2;Q96D98;P61586;O14896;P17036;Q13404;P17676;P783  
95;Q9HBH7;Q99081;Q9ULH7;Q86VP6;P02538;Q9Y3M2;Q5BJF6;Q13501;P41212;Q9UI56;Q9P2T0;Q96E  
K5;Q92754;Q99750;Q9BUP3;Q86YF9;P78545;Q96M53;Q01534;Q2M1K9;O60481;O60869;P28062;Q136  
42;Q9UM82;Q9H3C7;P56693;Q8NCR6;Q15834;Q9H5I1;Q9H091;P52594;Q03060;Q13363;O95257;Q020  
78;Q14781}
- 22528 Pathogen[ P03410] interacts with 152 human  
partners: {Q96AQ6;O14786;Q96TC7;Q9UI56;P23409;Q96EK5;P61247;Q03112;A0PJW8;Q9UJC3;P525  
94;Q13155;Q8TD31;Q9P2T0;O75293;A6NGB9;P37275;Q8WVJ9;Q9HAZ2;O00139;O14896;O96004;Q005  
34;Q9NXR1;P17676;O96005;Q9GZM8;Q9H4I2;Q99814;O60481;O15259;Q9Y6Q3;Q9ULH7;Q9Y4I5;Q149  
97;P41212;Q8NCR6;Q9Y3M2;Q6T4R5;Q8N6I1;Q8NHU6;Q14814;Q16352;P78545;Q9UL49;O75030;P158  
84;Q01534;Q9NVM4;Q13501;O43294;Q2M1K9;P31749;Q03060;O00291;Q14160;P15923;P02538;Q5VZ  
B9;Q5TAP6;Q92832;P25490;P17036;P49454;P58340;P27540;Q99081;Q99816;Q9NTU4;Q5H9L4;Q076  
87;Q86YF9;Q9UM82;Q01538;Q9UN36;Q9Y6B2;P35663;Q9Y2G1;P61586;P78395;Q32MQ0;P04553;Q5D1  
E8;Q96K83;Q9HBH7;Q9H5I1;P28062;Q9H3C7;Q9ULP0;Q8WYA0;P48380;Q9BUP3;Q96EK7;Q86VP6;P162  
20;Q15834;P56693;Q9BXL5;Q5BJF6;Q14093;Q13769;Q6PUV4;P13349;Q13642;Q99598;Q12834;P511  
14;Q86TG7;P60953;P32243;P23769;O75081;Q96Q05;O60869;Q7Z7L9;P49116;Q86VD1;A7MD48;Q025  
77;P17677;Q02078;Q9H091;Q9H9C1;O60248;Q3YBM2;Q13404;O43463;Q9H8V3;O95257;Q9NP84;Q147  
81;Q9HD15;Q16626;Q86UU5;Q12824;Q99426;P40424;P62993;Q9UKY1;Q14934;Q8IXT2;Q96M53;Q997  
50;Q9UJX6;Q96D98;Q5JSS6;O00458;Q9NZP6;Q92754;Q8HWS3;Q9BXJ9;Q99966}
- 22529 Pathogen[ P14075] interacts with 112 human  
partners: {P60953;Q14781;Q96AQ6;Q9BUP3;Q9NTU4;Q16352;Q02577;Q13155;Q9H4I2;P40424;O750  
30;O60248;Q8TD31;Q9BXL5;Q14160;Q9UM82;O60481;Q13769;Q9BXJ9;P78545;P78395;P23769;P412  
12;P48380;P15172;Q96PU4;P17036;Q00534;O95257;Q96TC7;Q7Z7C8;Q9H091;P56693;Q9H0C1;Q927  
54;P15923;Q9NZP6;Q13642;Q8WVJ9;O75081;Q07687;Q9HAZ2;P27540;Q9UJX6;Q86UU5;O96004;O002  
91;P49116;Q6T4R5;P31749;Q9H5I1;O00139;Q5BJF6;Q3YBM2;P28062;Q96M53;Q96D98;Q9HBH7;P612  
47;Q9Y6B2;Q9UL49;Q15834;Q8N6I1;Q14934;Q86VP6;Q9UN36;Q99750;O00458;Q01534;P61586;Q5D1  
E8;Q03112;Q02078;Q12824;O14896;Q5H9L4;Q14997;P52594;A7MD48;Q9P2T0;Q32MQ0;P15884;O434  
63;Q13404;Q03060;Q9H3C7;P16220;Q8NCR6;Q13363;Q99816;Q9Y3M2;P17676;P37275;O60869;Q2M1  
K9;Q99081;P02538;P49454;Q16626;P32243;Q14814;Q86YF9;Q9HD15;Q8HWS3;Q9UI56;Q12834;Q135  
01;Q9ULH7;Q86TG7;Q96EK5;P58340;Q5TAP6}
- 22530 Pathogen[ P0C206] interacts with 182 human  
partners: {Q8HWS3;O75293;Q96TC7;Q86VD1;P28062;Q07687;Q13501;Q9BZE0;Q9BXL5;P58340;Q030  
60;O60481;Q96M53;Q32MQ0;Q9C0C7;P31749;O60393;Q01538;P17677;Q9NS18;Q14997;Q9Y6Q3;Q9BU  
P3;Q9HAZ2;O00291;Q9UBP0;Q5BJF6;Q02078;Q9ULP0;Q8N6I1;Q9H4I2;P02538;Q13642;P16220;Q9Y5  
R6;O75030;P25490;Q9NTU4;P78395;Q86YF9;P41212;Q05066;Q9Y4Z2;Q9H091;Q8TD31;Q99598;Q025  
48;Q9Y4I5;O75081;Q8IUQ4;O43463;Q9C0J9;Q96PU8;Q9UL49;Q8NCR6;P23409;Q9UBC0;Q6UW56;P497  
15;Q99816;P56693;Q12824;P49454;P48380;Q8WYA0;P49116;O00458;Q9HD15;P0CV98;Q86TG7;Q8WV  
J9;Q96HZ4;Q14781;Q9GZM8;P62993;P40424;P50461;P61247;O14786;O96004;Q01534;Q927  
54;Q13769;O60248;Q9UM82;Q99426;P51114;A6NKD2;Q5VZB9;Q8IXT2;Q99581;Q03112;Q6093B1;Q990  
81;Q96Q05;Q9NVM4;O95257;P32243;P17676;Q9UI56;P13349;Q3YBM2;Q14160;Q96EK5;Q96AQ6;P159  
23;Q5D1E8;Q16626;P15884;Q6T4R5;Q15834;Q6PUV4;Q5H9L4;P78545;O43294;Q9H5I1;Q9H8V3;Q9HB  
H7;O14896;P60953;O00139;Q2M1K9;O60869;Q9UJX6;Q14934;Q13562;P23769;Q9Y6B2;Q7Z7L9;Q999  
66;Q86W54;A6NGB9;Q96D98;Q13155;P37275;P27540;P15172;A7MD48;Q9NXR1;Q9HS0;Q14814;Q9UB  
R4;Q7Z7C8;P35663;Q9P2T0;P0CW01;Q9NZP6;Q9UN36;Q92832;Q9UJC3;Q99814;Q96K83;Q7Z6Z7;Q86U  
U5;Q13404;Q16352;Q13363;Q02577;P08151;Q96M53;Q5BKK8;Q9BXJ9;Q9H3C7;P46379;Q86VP6;Q9H9  
C1;Q96EK7;Q99750;Q5TAP6;Q12834;O43316;P0CW00;Q9ULH7;Q96PU4;P0CV99;P56177;Q9UKY1;P170  
36;Q5JSS6;Q00534;Q9H2A3}
- 22531 Pathogen[ P03363] interacts with 186 human  
partners: {Q5BJF6;Q92886;P46379;Q96M53;Q9UBC0;Q15834;O75081;P49454;Q9Y4Z2;P02538;Q9BU  
P3;Q9H091;Q16352;Q99598;O14896;P27540;P17676;O60481;Q5JUK2;P49116;Q9H9C1;Q8NHU6;Q7Z3  
Z4;Q99626;Q14781;P56177;O14786;Q9ULP0;P08151;Q9H5I1;P58340;Q8TBZ2;Q03112;Q9BXL5;Q999  
29;Q9HD15;P37275;Q99750;Q6UW56;Q7RTS3;O95257;Q14093;Q14160;Q9HBH7;Q9H2W2;P25490;Q96H  
Z4;Q9UN36;Q9C0J9;Q13769;P56545;P16220;O43316;Q9Y3M2;P32243;Q8N302;Q9NTU4;Q9BW  
F3;Q9Y5R6;Q7L576;Q9UJX6;Q9UGV2;P13349;Q96PU8;Q96TC7;Q13155;Q3YBM2;Q7Z6Z7;Q8N9W6;P159  
23;Q2M1K9;Q9P2T0;Q00534;Q8NCR6;Q92904;Q9C0C7;Q92832;Q05066;Q9NVM4;Q5JSS6;P56693;O750  
30;Q99426;Q14814;A6NJT0;P78545;Q86UU5;Q9BX46;Q32MQ0;Q8IXT2;P31749;Q6T4R5;Q96EK7;Q96J  
Y0;Q7Z7C8;Q96AQ6;Q9Y6Q3;P17036;Q9ULH7;Q5TAP6;Q9HCC6;Q9UKY1;O96004;Q96EK5;Q5XKR4;P511  
14;Q96NK8;Q9UM82;Q9HB31;Q16626;Q99814;Q9UI56;O60869;O60393;Q8NEA9;Q01534;P23409;Q078  
20;Q9C056;O43463;P15884;Q7Z5H3;Q5BKK8;Q96QS3;P40424;Q9H3C7;Q5D1E8;A2RU54;Q13642;Q96J  
94;Q86VP6;Q14934;Q99581;Q99816;Q9NZP6;Q5VZB9;O15259;P61247;Q9Y6B2;Q9NQZ3;Q12834;Q96S  
Q7;Q02548;Q13363;Q13404;A7MD48;P52594;O60248;Q99081;Q86YF9;P48380;Q9NXR1;Q96PU4;O001  
39;Q96D98;Q86W54;Q8N6I1;P41212;Q9NR12;Q9H9S0;Q07687;Q8HWS3;P15172;P60953;Q5H9L4;Q9H4  
I2;Q8TD31;Q9UL49;Q8WVJ9;Q9BZE0;Q9BXJ9;P35663;Q12824;Q86TG7;Q03060;Q9H3U1;O00291;Q693  
B1;Q02577;Q92754;Q9HAZ2;Q9H2A3;Q6QHK4;Q9UJC3;Q02078}
- 22532 [Cluster 2049]GO:0048661+P biological\_process [name] positive regulation of smooth  
muscle cell proliferation [def] "Any process that activates or increases the rate or  
extent of smooth muscle cell proliferation." [CL
- 22533 Pathogen[ Q2Q067] interacts with 4 human partners: {P21980;P51948;P08697;P42224}
- 22534 Pathogen[ P0C214] interacts with 5 human  
partners: {P08697;P42224;P51948;P05412;P21980}
- 22535 Pathogen[ P03346] interacts with 4 human partners: {P21980;P05412;P42224;P51948}
- 22536 Pathogen[ Q85601] interacts with 5 human  
partners: {P51948;P08697;P21980;P05412;P42224}
- 22537 Pathogen[ P14079] interacts with 5 human



partners:{P21980;P42224;P05412;Q99836;P51948}

22538 Pathogen[ P03383] interacts with 4 human partners:{P51948;P08697;P21980;P05412}

22539 Pathogen[ P03410] interacts with 4 human partners:{P08697;P05412;P51948;P21980}

22540 Pathogen[ P14075] interacts with 4 human partners:{P05412;P08697;P21980;P51948}

22541 Pathogen[ P0C206] interacts with 5 human partners:{P21980;P05412;P42224;P08697;P51948}

22542 Pathogen[ P03363] interacts with 1 human partners:{P05412}

22543 [Cluster 2050]GO:0042699+P biological\_process [name] follicle-stimulating hormone signaling pathway [def] "The series of molecular signals mediated by follicle-stimulating hormone." [GOC

22544 Pathogen[ Q2Q067] interacts with 1 human partners:{Q92674}

22545 Pathogen[ P0C214] interacts with 1 human partners:{Q92674}

22546 Pathogen[ P03346] interacts with 1 human partners:{Q92674}

22547 Pathogen[ Q85601] interacts with 1 human partners:{Q92674}

22548 Pathogen[ P14079] interacts with 1 human partners:{Q92674}

22549 Pathogen[ P03383] interacts with 1 human partners:{Q92674}

22550 Pathogen[ P03410] interacts with 1 human partners:{Q92674}

22551 Pathogen[ P14075] interacts with 1 human partners:{Q92674}

22552 Pathogen[ P0C206] interacts with 1 human partners:{Q92674}

22553 Pathogen[ P03363] interacts with 1 human partners:{Q92674}

22554 [Cluster 2051]GO:0042473+P biological\_process [name] outer ear morphogenesis [def] "The process in which the anatomical structures of the outer ear are generated and organized. The outer ear is the part of the ear external to the tympanum (eardrum). It consists of a tube (the external auditory meatus) that directs sound waves on to the tympanum, and may also include the external pinna, which extends beyond the skull." [GOC

22555 Pathogen[ Q2Q067] interacts with 3 human partners:{Q99502;P49639;Q9NSC2}

22556 Pathogen[ P0C214] interacts with 3 human partners:{P49639;Q9NSC2;Q99502}

22557 Pathogen[ P03346] interacts with 4 human partners:{P49639;Q9NSC2;Q99502;O75569}

22558 Pathogen[ Q85601] interacts with 3 human partners:{P49639;Q99502;Q9NSC2}

22559 Pathogen[ P14079] interacts with 5 human partners:{Q99502;O75569;P54826;P49639;Q9NSC2}

22560 Pathogen[ P03383] interacts with 2 human partners:{P49639;Q9NSC2}

22561 Pathogen[ P03410] interacts with 5 human partners:{Q99502;O75569;P49639;P54826;Q9NSC2}

22562 Pathogen[ P14075] interacts with 3 human partners:{Q9NSC2;Q99502;P54826}

22563 Pathogen[ P0C206] interacts with 4 human partners:{Q9NSC2;P49639;Q99502;P54826}

22564 Pathogen[ P03363] interacts with 2 human partners:{P49639;O75569}

22565 [Cluster 2052]GO:0000080+P biological\_process [name] G1 phase of mitotic cell cycle [def] "G1 phase occurring as part of the mitotic cell cycle. G1 phase is the interval between the completion of DNA segregation (mitosis in a mitotic cell cycle) and the beginning of DNA synthesis. A mitotic cell cycle is one which canonically comprises four successive phases called G1, S, G2, and M and includes replication of the genome and the subsequent segregation of chromosomes into daughter cells." [GOC

22566 Pathogen[ Q2Q067] interacts with 34 human partners:{P42773;P24385;P06400;Q01094;Q08999;P61024;O75794;Q9UJX2;Q14186;P51948;O00716;Q13616;Q16254;P50613;Q15329;P38936;Q13309;P28749;P0CG47;Q14209;P42771;P0CG48;P21675;P62987;Q14188;P11802;P46527;P15923;P49918;P63208;P42772;P51946;Q00534;P62979}

22567 Pathogen[ P0C214] interacts with 35 human partners:{P51946;Q16254;Q969Z0;Q08999;P21675;P50613;Q13309;P11802;P61024;P63208;P46527;O00716;P24385;Q9UJX2;O75794;P38936;Q01094;Q00534;Q14186;P15923;P51948;P49918;P0CG48;Q15329;P42771;Q13616;P62987;P42773;P28749;P0CG47;P62979;Q14209;Q14188;P06400;P42772}

22568 Pathogen[ P03346] interacts with 35 human partners:{P55273;P24385;Q08999;Q13616;Q15329;P62987;P06400;Q14188;P42772;P15923;P0CG48;Q14209;P49918;Q16254;P61024;P42771;Q01094;P11802;Q14186;Q13309;Q9UJX2;P51946;P98177;P63208;P42773;P62979;P28749;P21675;P0CG47;Q00534;P38936;P46527;P51948;O00716;O75794}

22569 Pathogen[ Q85601] interacts with 36 human partners:{Q9UJX2;P51946;Q13309;P55273;P24385;Q08999;Q15329;P06400;P42772;Q969Z0;O75794;Q13616;Q14188;P0CG48;P51948;P61024;P11802;Q14186;P63208;P42771;Q16254;Q14209;P50613;P15923;P42773;P62979;P28749;P0CG47;P49918;P21675;P38936;P62987;Q00534;O00716;Q01094;P46527}

22570 Pathogen[ P14079] interacts with 30 human partners:{P0CG48;P28749;Q14186;P51946;Q13309;Q16254;Q15329;Q14209;P62979;P49918;P15923;P62987;P55273;P50613;O00716;P38936;Q969Z0;P46527;P42773;P63208;Q13616;O75794;P0CG47;Q01094;Q14188;P21675;Q08999;P42771;P61024;P51948}

22571 Pathogen[ P03383] interacts with 33 human partners:{Q15329;Q13616;O75794;P61024;O00716;Q14209;P62987;P51948;Q08999;Q01094;P15923;P24385;P63208;Q00534;P11802;P06400;Q969Z0;Q14186;P50613;P42772;P51946;P46527;Q16254;P42771;P28749;Q14188;P62979;P0CG47;P49918;P21675;Q13309;P0CG48;Q9UJX2}

22572 Pathogen[ P03410] interacts with 35 human partners:{P42771;P46527;O75794;P0CG48;Q15329;Q00534;P42772;P21675;P51946;Q16254;P55273;Q08999;P06400;P15923;P62979;Q14188;P50613;O00716;P24385;P63208;P38936;Q13309;P11802;Q14186;P51948;P28749;Q13616;P62987;Q01094;P61024;P49918;Q14209;Q969Z0;P42773;P0CG47}

22573 Pathogen[ P14075] interacts with 33 human

partners:{P21675;Q969Z0;Q08999;P11802;P61024;P50613;Q00534;P42771;O00716;P15923;O75794;Q14209;Q9UJX2;P46527;P63208;Q14186;P0CG48;P62979;P49918;Q16254;P62987;Q13309;Q01094;P06400;P51946;P28749;P0CG47;P42772;P24385;Q15329;Q13616;Q14188;P51948}  
 22574 Pathogen[ POC206] interacts with 36 human  
 partners:{Q14188;P0CG48;Q15329;P61024;O75794;Q13309;Q9UJX2;P42771;Q14186;P42772;Q13616;O00716;Q16254;P28749;Q08999;P42773;Q14209;P50613;P63208;P15923;Q01094;Q969Z0;P62979;P55273;P46527;P38936;P0CG47;P62987;P11802;P21675;P51946;P51948;P24385;Q00534;P06400;P49918}  
 22575 Pathogen[ POC363] interacts with 27 human  
 partners:{Q9UJX2;P49918;Q13309;O75794;P51946;Q16254;P06400;P28749;P15923;Q00534;Q13616;P42772;Q08999;Q01094;P61024;P62987;Q14209;P24385;P21675;Q14186;Q14188;P42773;P11802;O00716;P63208;Q15329;P42771}  
 22576 [Cluster 2053]GO:0060429+P biological\_process [name] epithelium development [def] "The process whose specific outcome is the progression of an epithelium over time, from its formation to the mature structure. An epithelium is a tissue that covers the internal or external surfaces of an anatomical structure." [GOC  
 22577 Pathogen[ Q2Q067] interacts with 2 human partners:{P35680;Q99456}  
 22578 Pathogen[ POC214] interacts with 1 human partners:{Q99456}  
 22579 Pathogen[ POC346] interacts with 2 human partners:{P35680;Q99456}  
 22580 Pathogen[ Q85601] interacts with 2 human partners:{P35680;Q99456}  
 22581 Pathogen[ P14079] interacts with 2 human partners:{Q99456;P35680}  
 22582 Pathogen[ POC383] interacts with 1 human partners:{Q99456}  
 22583 Pathogen[ POC3410] interacts with 2 human partners:{P35680;Q99456}  
 22584 Pathogen[ P14075] interacts with 1 human partners:{Q99456}  
 22585 Pathogen[ POC206] interacts with 2 human partners:{P35680;Q99456}  
 22586 Pathogen[ POC363] interacts with 1 human partners:{Q99456}  
 22587 [Cluster 2054]GO:0071459+P biological\_process [name] protein localization to chromosome, centromeric region [def] "Any process in which a protein is transported to, or maintained at, the centromeric region of a chromosome." [GOC  
 22588 Pathogen[ Q2Q067] interacts with 2 human partners:{P06400;P49450}  
 22589 Pathogen[ POC214] interacts with 2 human partners:{P49450;P06400}  
 22590 Pathogen[ POC346] interacts with 2 human partners:{P06400;P49450}  
 22591 Pathogen[ Q85601] interacts with 2 human partners:{P06400;P49450}  
 22592 Pathogen[ P14079] interacts with 1 human partners:{P49450}  
 22593 Pathogen[ POC383] interacts with 1 human partners:{P06400}  
 22594 Pathogen[ POC3410] interacts with 2 human partners:{P06400;P49450}  
 22595 Pathogen[ P14075] interacts with 1 human partners:{P06400}  
 22596 Pathogen[ POC206] interacts with 2 human partners:{P49450;P06400}  
 22597 Pathogen[ POC363] interacts with 2 human partners:{P06400;P49450}  
 22598 [Cluster 2055]GO:0050905+P biological\_process [name] neuromuscular process [def] "Any process pertaining to the functions of the nervous and muscular systems of an organism." [GOC  
 22599 Pathogen[ Q2Q067] interacts with 2 human partners:{P49639;Q99700}  
 22600 Pathogen[ POC214] interacts with 3 human partners:{P49639;Q99700;P49588}  
 22601 Pathogen[ POC346] interacts with 4 human partners:{P49639;P28358;Q99700;P50542}  
 22602 Pathogen[ Q85601] interacts with 2 human partners:{P49639;Q99700}  
 22603 Pathogen[ P14079] interacts with 5 human  
 partners:{Q99700;Q9UPW5;P50542;P49588;P49639}  
 22604 Pathogen[ POC383] interacts with 2 human partners:{Q99700;P49639}  
 22605 Pathogen[ POC3410] interacts with 5 human  
 partners:{Q99700;Q9UPW5;P49588;P49639;P50542}  
 22606 Pathogen[ P14075] interacts with 1 human partners:{Q99700}  
 22607 Pathogen[ POC206] interacts with 4 human partners:{P49639;P50542;Q99700;Q9UPW5}  
 22608 Pathogen[ POC363] interacts with 3 human partners:{P49639;P28358;Q99700}  
 22609 [Cluster 2056]GO:2000049+P biological\_process [name] positive regulation of cell-cell adhesion mediated by cadherin [def] "Any process that activates or increases the frequency, rate or extent of cell-cell adhesion mediated by cadherin." [GOC  
 22610 Pathogen[ Q2Q067] interacts with 1 human partners:{P08697}  
 22611 Pathogen[ POC214] interacts with 1 human partners:{P08697}  
 22612 Pathogen[ POC346] interacts with 1 human partners:{Q8IWF6}  
 22613 Pathogen[ Q85601] interacts with 1 human partners:{P08697}  
 22614 Pathogen[ P14079] interacts with 1 human partners:{Q8IWF6}  
 22615 Pathogen[ POC383] interacts with 2 human partners:{P08697;Q8IWF6}  
 22616 Pathogen[ POC3410] interacts with 2 human partners:{Q8IWF6;P08697}  
 22617 Pathogen[ P14075] interacts with 2 human partners:{P08697;Q8IWF6}  
 22618 Pathogen[ POC206] interacts with 2 human partners:{Q8IWF6;P08697}  
 22619 Pathogen[ POC363] interacts with 1 human partners:{Q8IWF6}  
 22620 [Cluster 2057]GO:0043922+P biological\_process [name] negative regulation by host of viral transcription [def] "Any process in which a host organism stops, prevents, or reduces the frequency, rate or extent of viral transcription, the synthesis of either RNA on a template of DNA or DNA on a template of RNA." [GOC  
 22621 Pathogen[ Q2Q067] interacts with 6 human  
 partners:{Q9UKI9;Q13148;Q01664;Q13547;Q13127;Q9UID6}  
 22622 Pathogen[ POC214] interacts with 7 human  
 partners:{Q9UID6;Q13547;Q9UKI9;Q13127;P05412;Q13148;Q01664}  
 22623 Pathogen[ POC346] interacts with 7 human

22624 partners:{P05412;Q13148;Q9UKI9;Q13547;Q9UID6;Q01664;Q13127}  
Pathogen[ Q85601] interacts with 7 human

22625 partners:{Q13127;Q13148;Q9UID6;P05412;Q9UKI9;Q13547;Q01664}  
Pathogen[ P14079] interacts with 6 human

22626 partners:{Q13148;Q9UID6;Q01664;Q9UKI9;P05412;Q13127}  
Pathogen[ P03383] interacts with 7 human

22627 partners:{Q9UKI9;Q01664;Q9UID6;Q13547;Q13148;Q13127;P05412}  
Pathogen[ P03410] interacts with 7 human

22628 partners:{Q13148;Q13127;P05412;Q9UKI9;Q13547;Q01664;Q9UID6}  
Pathogen[ P14075] interacts with 7 human

22629 partners:{P05412;Q9UID6;Q13148;Q13547;Q01664;Q13127;Q9UKI9}  
Pathogen[ P0C206] interacts with 7 human

22630 partners:{Q9UID6;Q13127;P05412;Q13547;Q9UKI9;Q13148;Q01664}  
Pathogen[ P03363] interacts with 7 human

22631 partners:{Q13148;Q9UKI9;Q13127;Q13547;P05412;Q9UID6;Q01664}  
[Cluster 2058]GO:0007352+P biological\_process [name] zygotic specification of dorsal/ventral axis [def] "The specification of the dorsal/ventral axis of the embryo, through the products of genes expressed in the zygote." [GOC

22632 Pathogen[ Q2Q067] interacts with 2 human partners:{O43541;Q15796}  
22633 Pathogen[ P0C214] interacts with 2 human partners:{Q15796;O43541}  
22634 Pathogen[ P03346] interacts with 3 human partners:{Q9H2H0;Q15796;O43541}  
22635 Pathogen[ Q85601] interacts with 2 human partners:{O43541;Q15796}  
22636 Pathogen[ P14079] interacts with 1 human partners:{O43541}  
22637 Pathogen[ P03383] interacts with 2 human partners:{O43541;Q15796}  
22638 Pathogen[ P03410] interacts with 2 human partners:{O43541;Q15796}  
22639 Pathogen[ P14075] interacts with 2 human partners:{O43541;Q15796}  
22640 Pathogen[ P0C206] interacts with 3 human partners:{O43541;Q9H2H0;Q15796}  
22641 Pathogen[ P03363] interacts with 2 human partners:{O43541;Q15796}

22642 [Cluster 2059]GO:0016070+P biological\_process [name] RNA metabolic process [def] "The cellular chemical reactions and pathways involving RNA, ribonucleic acid, one of the two main type of nucleic acid, consisting of a long, unbranched macromolecule formed from ribonucleotides joined in 3',5'-phosphodiester linkage." [ISBN

22643 Pathogen[ Q2Q067] interacts with 232 human  
partners:{P23588;Q92900;P61313;P30153;Q99460;P62701;O75832;P48556;O15234;P47914;Q8IU60;P31749;P40306;P62312;Q9Y333;P46779;O14744;Q9NQT4;P55036;Q9UPR3;A9UHW6;P63104;P39687;Q96LI5;Q02543;P61326;O00231;Q8IZH2;P26373;O00233;P62750;Q8IZD4;P63151;P62273;P51665;Q9Y2L1;Q9NPI6;P62318;Q9BQA1;A5YKK6;P15880;P40429;Q9H074;Q06265;P28072;Q9P0M2;Q96F86;P46782;P35268;Q01105;P22090;P46778;Q9UK45;Q96C86;Q13868;P38919;Q14103;A5LHX3;P62888;P32969;P62277;P62241;Q13200;P62244;P05387;Q92945;P25787;P62861;P08107;P42766;Q06323;P67775;P04792;P05386;O75175;Q9Y3B2;Q7L1Q6;Q9NPD3;Q86TB9;Q9BZI7;Q92973;Q14240;Q9UNX3;Q504Q3;P30050;P54105;P28065;O14818;P26196;P18077;P62891;P62314;P11142;Q9HAU5;P61927;Q5RKV6;P39023;Q9UHI6;P62081;P61247;P62304;O14980;Q9UIV1;P61254;P62249;P62280;O43310;Q14997;P83731;P60900;Q9UL46;P61289;P62263;Q86US8;Q9UKZ1;P60866;P62906;Q15024;O95628;Q9H0W8;Q02878;P46777;P28062;P62899;O43251;P78344;P08708;Q9UNM6;P08865;Q07020;P62913;P25788;Q8WDX5;P62269;Q92530;P14678;Q9Y5S9;P62424;P25786;P25786;Q96RS0;Q8TEQ6;P62829;O15116;P46783;Q8IYD1;P57678;P62495;P36578;Q9C0C2;P62857;Q16401;Q969H6;O00232;P62847;P49207;Q13144;P23396;Q09161;P28074;P25789;Q92540;Q9HCG8;P0CG47;P63173;P18621;Q9NZN8;P31946;P52298;P20618;P0CG48;P62316;Q92600;Q99700;P28070;P39019;P28066;Q5C9Z4;P61353;Q04637;Q99436;Q8TAA3;P62266;P42677;Q9Y3U8;P62306;P63220;Q9H840;P62841;P83881;P62987;P26651;O43242;P06730;O95453;P49721;O75792;P49720;P50914;P46776;Q8ND04;Q16637;P11940;P35658;P62854;P62308;P62753;O14893;P05388;P60842;P18124;P62851;Q9ULM6;P25398;Q15759;Q9Y4Z0;P62910;Q92901;P46781;Q9H814;P62310;P27635;Q07352;Q96B26;P61513;O95149;Q9Y4Y9;P62945;Q9H1J1;Q6P2E9;P62979}

22644 Pathogen[ P0C214] interacts with 230 human  
partners:{P62861;Q9BZI7;P84098;Q14997;Q6RFH5;P61247;P51665;Q16637;P62312;O15234;Q9NZN8;O15116;P62316;P25789;Q09161;Q96C86;P26196;P15880;P55036;P62081;P42766;P62913;P22090;Q15024;Q92901;P28062;P62249;Q6P2E9;P62899;O95453;A5LHX3;P62854;P28065;P39019;P62263;P60842;P30153;Q969H6;Q9NPI6;Q9Y5S9;P62273;O95628;P23396;Q92900;P18077;P05388;Q9H814;Q9Y2L1;P62847;P23588;O14818;P14678;Q9C0C2;P62829;Q504Q3;P26373;P62306;P27635;P57678;O43242;Q9Y3B2;P46778;Q9P0M2;P04792;P61513;P78344;P83881;P48556;P40306;P62701;P49207;P11940;P63220;Q5RKV6;Q92540;P08865;Q8WDX5;P32969;Q02543;Q13200;P62266;Q9HAU5;O95149;P62308;Q9Y4Z0;Q9UK45;O00232;O75792;Q01105;Q99700;P62277;Q9UIV1;Q9Y4Y9;P50914;Q8IZH2;P46779;Q07352;Q9Y333;Q99460;P52298;P28066;O75832;P40429;Q9ULM6;P62314;Q86US8;P47914;P63173;O14980;Q9NPD3;P46783;Q14103;P62310;P49720;P28074;P62280;P61326;A5YKK6;Q8TEQ6;Q9UNX3;Q9CG48;Q9UL46;P38919;Q9Y3U8;Q9H074;P30050;P62753;P62910;Q8ND04;Q13144;P62891;A9UHW6;P35658;O43310;Q14240;P63151;Q9UPR3;P25788;P62495;P62269;Q9UNM6;P67775;Q86TB9;O00231;Q9UHI6;P62318;Q06323;P46781;Q13868;Q7L1Q6;P25786;Q96RS0;Q8IYD1;Q8IU60;P61254;P28072;P62841;Q8TAA3;Q9H840;Q15287;P62244;P26651;P62987;Q04637;P62304;Q07020;P42677;P62945;P46776;Q99436;Q15759;P0CG47;P25787;P62241;P46777;Q9HCG8;O14893;P83731;Q9UKZ1;Q92973;Q9UFF9;P35268;P62424;P60866;P62857;Q92600;P35998;P60900;P61313;P08708;Q92945;P05387;P25398;O00233;Q9H0W8;Q5C9Z4;O43251;Q96LI5;P61927;P31946;P62750;P62979;P05386;Q06265;P08107;P62851;P06730;P46782;O75175;P39687;Q92530;Q15008;P18124;Q9NQT4;Q96F86;P28070;Q96B26;P31749;P61353;P36578;P20618;P49721;Q16401;P18621;P17980;P62906;Q8IZD4;P11142;Q02878;Q9H1J1}

22645 Pathogen[ P03346] interacts with 237 human  
partners:{P08107;Q9UPR3;Q9Y5S9;P54105;Q9BZI7;P25787;P05387;P46779;Q5RKV6;O15234;P280

70;Q504Q3;Q9ULM6;Q9P0M2;Q09161;P63173;P25789;P55036;P06730;P62917;P62249;P62913;P62861;Q9NPI6;P62277;Q02878;Q95149;Q99460;Q86US8;Q9UIV1;Q96C86;O75175;Q9UL46;P62280;P39023;Q9H9A5;Q9BQA1;P62304;P62987;P61927;Q9UNX3;P28072;Q9UKZ1;P62857;P25788;P28074;P49721;Q9Y4Y9;Q01105;Q95628;O14818;P46778;P49207;Q99436;Q9H814;P0CG48;P62266;Q8WXD5;Q14744;Q16401;A5LHX3;Q969H6;P78344;P61254;P38919;P62495;P11142;P28062;P11940;P62424;P62273;P67775;P83731;Q8ND04;P60866;Q92945;Q96B26;P20618;P62899;P35658;P52298;O00232;P60842;Q9Y3B2;A5YKK6;Q9Y333;P35268;P62891;P68708;Q8IZH2;Q15024;Q9NZN8;Q16637;O95453;P30153;Q14103;O75832;P46782;P61353;O00233;Q8IU60;P62854;Q9Y3U8;P62318;Q99700;Q86TB9;P47914;O14980;Q92973;P08865;A9UHW6;P31749;P61313;Q9H074;P25398;Q9Y4Z0;Q9HCG8;P49720;P28065;P61513;Q6P2E9;P62306;P05388;Q9UHI6;P62269;P60900;Q7L1Q6;Q02543;P42766;P62081;Q9Y2L1;P25786;P61247;O00231;Q14240;Q96RS0;Q8TEQ6;P18621;Q8IYD1;P46781;P61326;Q9HAU5;P39687;P84098;O43251;Q9NQT5;P15880;O15116;Q92540;Q07352;P61289;P50914;Q9C0C2;P62829;P62979;P28066;Q9UNM6;P39019;P23588;P62314;P23396;P42677;Q15287;O43310;P62750;P31946;P62701;Q8TAA3;P30050;P63104;Q15759;P14678;P62910;P0CG47;P36578;P26196;P62847;Q14997;P57678;Q6RFH5;Q13200;P48556;P62851;Q9H0W8;P22090;Q04637;O14893;P51665;Q8IZD4;P46777;Q06265;Q9UFF9;Q07020;P62263;P62841;P83881;P62316;Q06323;P26651;P05386;Q92900;P18077;Q13144;P46776;P62241;Q92530;Q9NQT4;P62308;P62312;P62753;Q9NPD3;Q96F86;Q96LI5;O43242;P62945;P62310;Q9UK45;P04792;Q92901;P32969;P26373;P18124;P40306;P40429;Q13868;P27635;P46783;P62906;Q9H840;Q5C9Z4;Q92600;P63151;P62244;O75792;P62888;Q9H1J1;P63220}

22646 Pathogen[ Q85601] interacts with 229 human

partners: {P46783;P32969;P28066;Q9BZL7;Q9UNM6;P61513;P60900;Q5RKV6;P26373;O15234;P62857;Q6P2E9;P62244;Q9BQA1;P63104;P62913;P08107;P55036;P31946;Q9NPD3;P62854;P31749;P62081;Q9NPI6;P61353;Q95149;P62891;P46776;P18077;P25787;P61313;Q5C9Z4;P05388;P63151;P62495;P61289;P06730;P62304;Q9H0W8;Q14240;Q92540;Q9UKZ1;P63173;P25788;P23588;P39687;Q14103;O15116;Q01105;P23396;P62273;Q07352;P46778;P62829;O75832;P30050;P62753;Q13868;P27635;P61326;P15287;Q969H6;Q04637;P15880;P83881;Q07020;P30153;P39019;P57592;Q9UIV1;Q9Y3U8;P62701;P62241;P62424;P0CG48;P83731;Q9NZN8;P62899;Q9UFF9;Q13144;P62945;Q9UK45;O14744;P62316;Q92600;Q504Q3;P62263;Q9Y2L1;P62861;Q02878;Q09161;Q8IZH2;Q86TB9;P39023;P38919;P61254;Q96C86;P26651;P14678;P25789;O00233;P49207;P11940;P20618;P62910;Q96LI5;Q9H814;P62310;P62249;P62280;P62314;P62306;Q9HAU5;P47914;Q8TEQ6;P84098;P40306;P08708;Q92973;Q9Y4Z0;Q9NQT4;P49720;Q9Y3B2;A5YKK6;Q95628;O95453;P62318;P42766;P28062;P11142;Q9UIV1;P49721;P62269;P62312;P54105;Q15024;P25786;Q8IZD4;Q96RS0;Q9ULM6;P18621;Q8IYD1;Q8ND04;P05387;P78344;P28072;Q9UNX3;P60842;Q13200;P62277;Q9H074;Q9C0C2;P28065;P35268;O14980;P67775;Q06265;P62979;Q99436;P62847;P28072;P35658;P26196;Q86US8;Q9P0M2;P42677;P63220;Q8TAA3;Q9UL46;Q99460;O00231;Q15759;P0CG47;Q9UPR3;P46782;P04792;Q6RFH5;P48556;P46779;A9UHW6;P62750;P62851;Q92945;O14893;P62841;P28074;Q96F86;P62308;P52298;Q92530;P62987;P22090;Q9Y333;Q9HCG8;A5LHX3;P61927;P36578;Q06323;P05386;Q92900;Q16637;O43310;Q7L1Q6;O75175;P08865;P61247;O14818;Q99700;Q96B26;P46777;P62917;Q16401;Q92901;P18124;P46781;P25398;P60866;Q9Y5S9;Q02543;P62906;P50914;Q8WXD5;Q9H840;P62266;Q8IU60;P40429;P62888;Q9H1J1;Q9Y4Y9}

22647 Pathogen[ P14079] interacts with 232 human

partners: {Q9Y3U8;P27635;P84098;P46779;P28065;Q99436;Q9Y333;Q01105;P62333;O95628;P26373;P57678;A9UHW6;Q15287;P48556;Q96RS0;P60842;Q9Y3B2;P23396;Q8IZD4;P11142;Q8TEQ6;P0CG48;P40429;Q92600;P06730;P18621;O14893;P83881;Q9H0W8;Q14103;Q8IU60;Q99700;Q9UNX3;P46781;P83731;P61513;P62847;Q15024;P40306;Q9UK45;P62753;P52298;P35658;Q9P0M2;Q9NPI6;P28074;P39023;Q9H1J1;O00232;P62273;O75792;Q9Y5S9;O43432;P25398;Q9UKZ1;P62495;Q86TB9;Q96LI5;Q92540;P18077;P49720;O00487;Q9NQT4;P25787;Q13868;O75832;P46783;Q86US8;Q9NPD3;Q9H840;P61254;P50914;Q96C86;A5LHX3;O15116;Q9H074;P62312;P62979;O00233;Q6P2E9;P62841;P18124;Q9UHI6;Q14240;P35998;A5YKK6;P62314;P42766;P61289;O95453;P63151;P62266;O95149;P46782;P62987;Q13144;P62241;P51665;Q8IYD1;P20618;P78344;P23588;P32969;P63104;P22090;P62306;P62829;P14678;Q8TAA3;P60866;P62854;Q07020;P39019;Q9C0C2;O14744;P63220;P61326;Q8IZH2;Q16637;Q14997;P49207;P62244;P28062;P60900;P62263;Q02543;P62424;Q92901;P62277;Q9BZL7;P11940;P62750;P62910;Q9BQA1;P63173;Q9Y4Z0;P26196;P31946;Q8ND04;Q5RKV6;Q15759;P46778;Q96F86;P08107;Q92945;Q9UNM6;P08708;Q92973;Q99460;P36578;O43310;P62308;O75175;Q9UFF9;O14818;P49721;P62304;Q5C9Z4;Q96B70;P62906;Q9HAU5;Q9Y2L1;Q92530;P62316;P47914;P62280;P62310;P62899;P61353;P62081;P62945;Q9UIV1;P46777;P42677;P30050;P15880;Q06323;P62891;Q9HCG8;P62191;Q9H9A5;Q92900;Q96B26;P62888;P08865;Q9UPR3;P61927;P62917;Q15008;Q9ULM6;P30153;P46778;P62249;P43686;O43242;P25788;Q7L1Q6;Q9NZN8;O00231;P05386;P28066;P35268;Q9UL46;P04792;P62913;P05387;P61247;P54105;P62318;P0CG47;P62269;Q9Y4Y9;P62701;Q504Q3;Q06265;P61313;O15234;Q16401;Q8WXD5;P17980;P62851;Q07352;P28072;P39687;Q09161;P05388;Q04637;P62857;P62861;Q9H814}

22648 Pathogen[ P03383] interacts with 223 human

partners: {P08107;P42766;P36578;Q06265;P05388;P62266;P39019;P26373;O15234;Q9Y2L1;Q15287;Q8ND04;Q9BQA1;P62913;P62945;Q01105;P55036;P62854;P40429;P62987;P62891;P25398;Q9H840;P62280;P62318;Q07020;Q8IU60;P62312;P25789;P62750;P54105;P60900;P05387;P62249;P62888;P62899;P31946;O75792;Q969H6;P61927;Q9H0W8;P46777;Q9Y5S9;P46779;P49207;P31749;P62316;A9UHW6;Q99700;P83731;P62424;P40306;O00233;P18124;P46778;Q92901;P62753;P62304;P61326;Q6P2E9;P42677;Q8WXD5;P61247;P38919;Q9Y4Y9;P49721;Q06323;P83881;Q9UFF9;P30153;P47914;P04792;Q9C0C2;Q14997;P67775;P26196;P11940;P62917;P62273;Q07352;Q9UNX3;P20618;P30050;Q9Y3B2;O14744;P84098;P32969;Q09161;O95628;Q9UPR3;O75832;P62277;Q13144;P18077;P23588;P06730;P63173;Q16637;P62081;P62314;P62310;Q92945;P39687;P63104;Q9HAU5;Q8TEQ6;O14893;Q92973;P61313;O14980;P08865;Q9NPD3;P62851;P62495;Q86US8;Q9NQT4;Q9NPI6;P46782;Q14103;A5YKK6;Q9UL46;O95149;P62269;Q9UNM6;P63220;Q02543;P62244;P14678;Q02878;Q9Y333;Q9UIV1;P25786;Q99460;Q15759;Q96RS0;Q86TB9;Q8IYD1;P11142;Q92600;P78344;P28072;Q96B26;P62910;P27635;Q13200;Q9ULM6;Q9H074;P28065;Q8IZD4;P62857;P28066;P26651;P52298;P35658;P62906;Q9Y4Z0;P46783;Q9NZN8;Q9Y3U8;P60866;Q04637;Q9UK45;Q5RKV6;Q96C86;P61254;Q16401;P629

- 79;O00231;P0CG47;P62241;P46781;P39023;P57678;Q9UKZ1;P0CG48;O43310;P28074;P62841;Q96F86;P62308;Q92530;P49720;Q8TAA3;P61289;P22090;Q92540;P62701;P62829;O15116;P62263;P28062;P62847;Q7L1Q6;P35268;P05386;P50914;O95453;P48556;O14818;O75175;Q9HCG8;Q92900;P62861;Q13868;Q99436;P18621;Q96LI5;P46776;P15880;P23396;Q15024;P28070;P61513;Q9H814;P25787;Q5C9Z4;P62306;P08708;P25788;Q9BZI7;Q9H1J1;P61353;Q6P2E9}
- 22649 Pathogen[ P03410] interacts with 237 human partners: {Q96LI5;Q99700;Q92540;P62861;P05386;Q8IU60;P28070;Q9Y2L1;Q92945;Q02543;P61247;P62241;P62829;P49207;P26373;Q9NZN8;P55036;Q9RS0;Q9Y4Y9;P61513;Q8WXD5;P0CG48;O14893;Q9UFF9;P61326;Q14103;P62304;P62899;O15234;Q95628;P62244;P62913;P25786;Q9H840;Q02878;Q15008;Q92901;Q92900;Q16401;P11940;P15880;P62306;P46777;P46776;P62841;P54105;P30050;Q15287;P60900;P62310;P05388;Q14997;P06730;Q9ULM6;Q9UPR3;P35998;Q9NPI6;P46781;Q99460;P18124;Q9Y5S9;Q06265;O00233;Q9C0C2;O75792;Q5RKV6;Q8TEQ6;Q9Y333;O00232;P62269;Q5C9Z4;Q7L1Q6;Q07020;Q13868;P63220;P62910;P62847;P62906;P11142;P39687;Q8TAA3;P31749;P04792;P23396;P18621;P48556;P49721;P62266;Q9BQA1;P62249;Q01105;P63151;P62308;P14678;P63173;P62316;P50914;Q9HAU5;P62280;O43432;A5LHX3;P22090;P26651;P61313;Q9UIV1;P62979;Q9H1J1;Q9H9A5;Q99436;P62701;Q9BZI7;P62750;Q9H074;P08865;Q6RFH5;P40306;Q9UNX3;Q06323;P62277;Q8IZH2;P36578;P18077;Q9P0M2;Q8IZD4;P25398;Q96B26;Q13200;Q9H814;Q96F86;P25787;P61927;P84098;A9UHW6;P62854;O95453;Q6P2E9;P62273;Q96B70;P35658;P08107;P52298;P62081;Q16637;P46783;P62495;Q9UKZ1;P62314;Q92973;O43310;Q15024;Q9Y3U8;P28062;P51665;P08708;P46782;P32969;O14818;P60842;O75175;P38919;Q9NQT4;O00231;Q8ND04;Q9UNM6;P46779;Q86US8;P63104;P27635;P25789;P49720;Q8IYD1;Q9Y4Z0;P30153;P62987;Q86TB9;P57678;P62857;P62263;P62424;P62888;P61254;Q09161;P46778;Q92600;P28072;P62945;P05387;Q9NPD3;P42766;O14744;O15116;P39019;P62312;P47914;Q969H6;A5YKK6;Q9H0W8;P40429;Q04637;P39023;P25788;Q96C86;P62917;P62851;P67775;P83731;Q9UHI6;P28066;P35268;Q504Q3;P61353;Q9UK45;P62891;P28065;O43242;P0CG47;Q07352;P62753;P78344;P23588;P17980;P31946;O75832;O14980;P20618;Q14240;Q9UL46;P28074;P61289;P83881;P60866;O95149;Q13144;P42677;Q9HCG8;Q9Y3B2;P62318}
- 22650 Pathogen[ P14075] interacts with 222 human partners: {O95453;Q6P2E9;P42766;Q8TEQ6;P49207;O15234;P62857;P62304;P46781;P63220;P54105;P32969;Q9UK45;Q09161;P62316;Q9H814;P62495;P55036;P25788;P42677;P62913;Q92900;P22090;P11142;Q02878;Q8WXD5;P28066;P62277;Q9UPR3;P62851;Q06323;O75832;Q15759;Q14103;Q9ULM6;P23588;P08865;Q9BQA1;Q8TAA3;Q9UKZ1;Q9NPD3;P60900;P62244;P61326;O00233;P08708;Q9UL46;P57678;Q9Y4Z0;P26196;P49720;P61254;P46778;P26651;Q92600;Q92945;Q92973;P05388;P78344;P83881;P46777;Q9H840;Q9Y3U8;P04792;P62249;P39687;O75175;Q9H074;Q13200;P48556;P06730;P62306;Q16401;Q9NPI6;P62081;P62308;P62750;P18621;Q96LI5;Q8IU60;P35658;Q9NZN8;Q01105;Q02543;P28070;P18124;Q9UNX3;P25398;Q9HCG8;P49721;Q9Y2L1;A9UHW6;Q13868;P62312;O00231;Q16637;Q92530;Q9NQT4;P11940;O14980;P63173;Q95628;P30050;Q9UHI6;P31749;P0CG48;Q86US8;Q8IZD4;P62979;P83731;P84098;P62318;P28062;O15116;P28074;O14744;P61247;P62753;P46782;P62891;P62861;P28065;P18077;P46779;P62917;P39023;Q15287;Q04637;P50914;P62269;P62847;P62910;P62273;Q86TB9;Q5RKV6;P40429;P23396;P62241;P25786;P15880;Q96RS0;O14818;P62987;Q8IYD1;P63104;Q9HAU5;Q7L1Q6;P28072;Q96B26;P62841;Q9Y333;P36578;P62266;Q07352;Q95149;P67775;P30153;Q14997;P61513;P61313;P27635;P14678;O75792;P62888;O43310;Q9UFF9;Q92901;P0CG47;P25787;Q5C9Z4;P08107;Q9Y5S9;P35268;Q96C86;P62945;P46776;Q9H0W8;Q15024;P31946;P20618;Q99700;P46783;P62701;Q13144;P62899;Q9C0C2;P47914;Q9UNM6;O14893;P62906;P62314;P38919;Q9Y4Y9;Q9UIV1;P61289;P05386;P40306;P61353;P39019;P62424;Q99436;Q92540;A5YKK6;Q06265;P60842;P62280;Q9Y3B2;Q96F86;Q8ND04;Q07020;P62263;P62854;P60866;P26373;P05387;P62310;P52298;P25789;Q969H6;Q9BZI7;Q9H1J1;P61927}
- 22651 Pathogen[ P0C206] interacts with 233 human partners: {P61289;A9UHW6;Q15287;P40429;Q9UFF9;P61313;Q99436;P28062;Q96RS0;Q9UNM6;P0CG48;Q9H074;Q14103;P27635;P14678;O75832;Q9BZI7;Q504Q3;P18124;P39687;O95149;Q86TB9;P52298;O95453;P31749;P62854;P40306;P28065;Q14997;Q9H840;P61326;P49207;P26651;Q8IZH2;Q9BQA1;Q96C86;P55036;P62081;Q09161;P30050;P25786;P30153;Q8WXD5;P25788;Q9NPD3;P62241;Q5RKV6;P54105;P62304;P62244;O14744;P25787;P50914;Q13868;Q9NZN8;P08865;Q9UIV1;P62750;Q06323;P18621;Q96LI5;P46781;P62266;Q02543;Q8TEQ6;P49720;Q07020;P83881;Q8IYD1;P46778;P26196;O75175;P63151;P62263;O00232;P62273;Q9NPI6;P62314;P62316;P60900;Q02878;P04792;P62495;P62280;P67775;Q96B26;P62857;P62851;O43242;P62910;Q9H9A5;Q92973;Q9Y4Y9;P46782;O95628;A5LHX3;P06730;Q9Y4Z0;P61247;P31946;Q13144;Q969H6;P18077;P62913;P61927;P25789;Q9Y333;P61353;P62888;P63104;Q8IZD4;P36578;Q9H814;Q9UK45;P62861;Q86US8;Q8ND04;P35268;P23396;P39023;Q9H0W8;P20618;Q6RFH5;Q99700;P32969;Q06265;Q13200;Q8TAA3;P62701;P28070;Q9P0M2;Q6P2E9;P05386;Q96F86;P22090;P84098;P62945;Q99460;O75792;P26373;P46777;P05388;P62979;P62318;Q15024;O15234;O14893;P28066;P62899;Q5C9Z4;P08107;A5YKK6;P83731;Q9Y2L1;P39019;Q92901;P05387;O14818;P46783;P42766;Q9UPR3;P60866;Q14240;Q9UKZ1;Q92600;P62306;P62841;P0CG47;Q9Y3B2;Q9C0C2;Q9HAU5;Q9HCG8;P28072;Q7L1Q6;Q9UNX3;P23588;P61513;P78344;Q92900;P28074;P62277;P46776;Q92530;Q9UHI6;P62906;P62312;Q04637;Q07352;P49721;P63173;Q92945;P62987;Q9NQT4;P38919;Q16637;P62308;P62891;P62269;P62753;P46779;Q9UL46;O43310;P63220;P62310;P60842;Q92540;P15880;Q9ULM6;P25398;P08708;Q01105;Q15759;P11940;P11142;Q8IU60;O00233;P47914;P48556;P35658;P62847;Q16401;P61254;O15116;Q9Y5S9;O00231;P42677;P62829;P62249;P62424;Q9H1J1;Q9Y3U8;P62917;P57678}
- 22652 Pathogen[ P03363] interacts with 198 human partners: {Q96B26;Q504Q3;P62913;Q9NQT4;P62314;Q96RS0;O14744;P18621;P05386;Q9Y4Y9;Q5RKV6;Q92973;Q9Y4Z0;P62750;P23396;P42677;P63173;P08865;P38919;P62847;P18077;P05387;Q5C9Z4;O95628;O95453;P84098;P42766;O43310;P62249;Q92900;P05388;Q9UHI6;P36578;P62753;P62312;Q92530;Q8ND04;P62081;P62910;A9UHW6;P61513;P46776;Q15024;A5YKK6;O14980;Q86US8;Q9Y3B2;P61254;P62273;Q6P2E9;P32969;Q92901;Q8IYD1;P17980;P61927;P31946;Q9UPR3;P62891;P62318;P61353;P61289;P62304;P08708;Q9UKZ1;P15880;P11940;O14893;Q8IZD4;Q9NZN8;Q9NPD3;P23588;P39687;Q7L1Q6;P62495;P61326;Q9P0M2;P62306;O15116;P26373;O75792;P54105;Q15287;P57678;Q9BQA1;P83881;P63151;P63104;Q9ULM6;P22090;Q07352;Q9Y333;P62861;P62841;P62316;Q9UN

X3;Q96F86;P30050;Q9H0W8;P62829;P08107;Q14240;P46782;Q92945;P35268;Q15717;P31749;Q9C0  
C2;P46781;P50914;Q8WXD5;Q9HAU5;P63220;Q9Y2L1;P61313;P39019;P52298;P26196;P35658;P467  
79;Q02543;P46777;Q9H840;P62987;Q92600;Q96LI5;Q13868;P25398;Q14103;P83731;P62851;P622  
80;Q9Y3U8;P62888;Q75175;P62310;P60842;Q9NQT5;P26651;Q9UIV1;Q86TB9;P62244;P62277;P629  
06;Q92540;Q9UK45;Q969H6;P62266;Q9BZI7;P62945;P49207;P62241;Q9HCG8;P62424;P60866;P612  
47;Q8TEQ6;Q13144;Q9UFF9;P62308;P62899;P16637;P62857;Q99700;Q02878;P78344;Q07020;P390  
23;Q01105;Q96C86;P30153;P14678;P62854;P62917;P18124;P40429;P67775;Q6RFH5;P27635;P067  
30;P62263;Q95149;P04792;P47914;Q9NPI6;P62701;Q9Y5S9;Q9H074;Q9H814;Q8IZH2;O43251;P111  
42;P62269;Q8IU60;Q09161;P46783;Q04637;Q9H1J1;O15234}

22653 [Cluster 2060]GO:0035458+P biological\_process [name] cellular response to  
interferon-beta [def] "Any process that results in a change in state or activity of a  
cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a  
result of an interferon-beta stimulus. Interferon-beta is a type I interferon." [GOC

22654 Pathogen[ Q2Q067] interacts with 2 human partners:{Q8TCS8;O14862}

22655 Pathogen[ P0C214] interacts with 3 human partners:{Q8TCS8;Q86WV6;O14862}

22656 Pathogen[ P03346] interacts with 2 human partners:{Q8TCS8;O14862}

22657 Pathogen[ Q85601] interacts with 3 human partners:{Q86WV6;Q8TCS8;O14862}

22658 Pathogen[ P14079] interacts with 4 human partners:{Q86WV6;Q9NSU2;O14862;Q8TCS8}

22659 Pathogen[ P03383] interacts with 2 human partners:{O14862;Q8TCS8}

22660 Pathogen[ P03410] interacts with 4 human partners:{Q8TCS8;O14862;Q9NSU2;Q86WV6}

22661 Pathogen[ P14075] interacts with 2 human partners:{O14862;Q8TCS8}

22662 Pathogen[ P0C206] interacts with 4 human partners:{Q9NSU2;Q8TCS8;O14862;Q86WV6}

22663 Pathogen[ P03363] interacts with 1 human partners:{O14862}

22664 [Cluster 2061]GO:0040034+P biological\_process [name] regulation of development,  
heterochronic [def] "Any process that modulates the rate, frequency or extent of the  
progression an integrated living unit

22665 Pathogen[ Q2Q067] interacts with 1 human partners:{P05114}

22666 Pathogen[ P0C214] interacts with 1 human partners:{P05114}

22667 Pathogen[ P03346] interacts with 1 human partners:{P05114}

22668 Pathogen[ Q85601] interacts with 1 human partners:{P05114}

22669 Pathogen[ P14079] interacts with 1 human partners:{P05114}

22670 Pathogen[ P03383] interacts with 1 human partners:{P05114}

22671 Pathogen[ P03410] interacts with 1 human partners:{P05114}

22672 Pathogen[ P14075] interacts with 1 human partners:{P05114}

22673 Pathogen[ P0C206] interacts with 1 human partners:{P05114}

22674 Pathogen[ P03363] interacts with 1 human partners:{P05114}

22675 [Cluster 2062]GO:0045664+P biological\_process [name] regulation of neuron  
differentiation [def] "Any process that modulates the frequency, rate or extent of  
neuron differentiation." [GOC

22676 Pathogen[ Q2Q067] interacts with 8 human  
partners:{Q99502;P54259;P61981;P30279;Q96SN8;Q04917;Q16612;Q96JB5}

22677 Pathogen[ P0C214] interacts with 8 human  
partners:{Q04917;Q96SN8;P30279;P61981;Q16612;Q96JB5;P54259;Q99502}

22678 Pathogen[ P03346] interacts with 10 human  
partners:{P30279;Q92858;Q99502;Q04917;Q96SN8;Q96JB5;Q15475;P61981;Q16612;P54259}

22679 Pathogen[ Q85601] interacts with 8 human  
partners:{P54259;Q16612;P61981;Q96SN8;Q04917;Q96JB5;Q99502;P30279}

22680 Pathogen[ P14079] interacts with 9 human  
partners:{Q99502;Q04917;Q15078;P61981;Q96SZ6;P54259;Q96JB5;Q16612;Q96SN8}

22681 Pathogen[ P03383] interacts with 6 human  
partners:{Q16612;Q96SN8;Q96JB5;P30279;P61981;P54259}

22682 Pathogen[ P03410] interacts with 8 human  
partners:{P30279;Q99502;Q04917;Q96SN8;Q16612;Q96JB5;P61981;P54259}

22683 Pathogen[ P14075] interacts with 6 human  
partners:{P30279;Q96SN8;Q96JB5;P61981;P54259;Q99502}

22684 Pathogen[ P0C206] interacts with 8 human  
partners:{Q96SN8;P30279;Q04917;Q96JB5;P54259;P61981;Q16612;Q99502}

22685 Pathogen[ P03363] interacts with 7 human  
partners:{P54259;P30279;P61981;Q04917;Q16612;Q96JB5;Q96SN8}

22686 [Cluster 2063]GO:0009452+P biological\_process [name] RNA capping [def] "The sequence  
of enzymatic reactions by which the 5' cap structure, an inverted 7-methylguanosine  
linked via a 5'-5' triphosphate bridge (m7G(5')ppp(5')X) to the first transcribed  
residue, is added to a nascent RNA polymerase II transcript." [PMID

22687 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96RS0}

22688 Pathogen[ P0C214] interacts with 1 human partners:{Q96RS0}

22689 Pathogen[ P03346] interacts with 1 human partners:{Q96RS0}

22690 Pathogen[ Q85601] interacts with 1 human partners:{Q96RS0}

22691 Pathogen[ P14079] interacts with 1 human partners:{Q96RS0}

22692 Pathogen[ P03383] interacts with 1 human partners:{Q96RS0}

22693 Pathogen[ P03410] interacts with 1 human partners:{Q96RS0}

22694 Pathogen[ P14075] interacts with 1 human partners:{Q96RS0}

22695 Pathogen[ P0C206] interacts with 1 human partners:{Q96RS0}

22696 Pathogen[ P03363] interacts with 1 human partners:{Q96RS0}

22697 [Cluster 2064]GO:0032876+P biological\_process [name] negative regulation of DNA  
endoreduplication [def] "Any process that stops, prevents, or reduces the frequency,  
rate or extent of DNA endoreduplication." [GOC

22698 Pathogen[ Q2Q067] interacts with 4 human partners:{P49959;Q969H0;Q14683;Q8N3U4}  
22699 Pathogen[ POC214] interacts with 4 human partners:{P49959;Q969H0;Q14683;Q8N3U4}  
22700 Pathogen[ P03346] interacts with 4 human partners:{Q8N3U4;Q14683;P49959;Q969H0}  
22701 Pathogen[ Q85601] interacts with 4 human partners:{Q969H0;P49959;Q14683;Q8N3U4}  
22702 Pathogen[ P14079] interacts with 4 human partners:{Q969H0;Q8N3U4;Q9UQE7;Q14683}  
22703 Pathogen[ P03383] interacts with 3 human partners:{Q14683;Q8N3U4;Q969H0}  
22704 Pathogen[ P03410] interacts with 5 human partners:{P49959;Q9UQE7;Q969H0;Q14683;Q8N3U4}  
22705 Pathogen[ P14075] interacts with 3 human partners:{Q14683;Q969H0;Q8N3U4}  
22706 Pathogen[ POC206] interacts with 5 human partners:{P49959;Q969H0;Q9UQE7;Q14683;Q8N3U4}  
22707 Pathogen[ P03363] interacts with 3 human partners:{Q969H0;Q8N3U4;Q14683}  
22708 [Cluster 2065]GO:0071158+P biological\_process [name] positive regulation of cell cycle arrest [def] "Any process that increases the rate, frequency, or extent of cell cycle arrest, the process in which the cell cycle is halted during one of the normal phases." [GOC  
22709 Pathogen[ Q2Q067] interacts with 7 human partners:{Q9H4X1;O43159;Q8N726;Q9BQG0;Q15173;Q96PU4;Q71SY5}  
22710 Pathogen[ POC214] interacts with 7 human partners:{Q9H4X1;Q71SY5;O43159;Q9BQG0;Q96PU4;Q8N726;Q15173}  
22711 Pathogen[ P03346] interacts with 8 human partners:{Q9H4X1;Q9BQG0;Q71SY5;O43159;Q8IUI8;Q96PU4;Q8N726;Q15173}  
22712 Pathogen[ Q85601] interacts with 7 human partners:{Q9H4X1;Q9BQG0;Q96PU4;O43159;Q15173;Q8N726;Q71SY5}  
22713 Pathogen[ P14079] interacts with 6 human partners:{Q15173;Q8N726;Q9BQG0;Q71SY5;O43159;Q8IUI8}  
22714 Pathogen[ P03383] interacts with 7 human partners:{Q9BQG0;Q9H4X1;Q15173;Q96PU4;O43159;Q71SY5;Q8N726}  
22715 Pathogen[ P03410] interacts with 7 human partners:{Q9H4X1;Q8N726;Q15173;O43159;Q8IUI8;Q9BQG0;Q71SY5}  
22716 Pathogen[ P14075] interacts with 7 human partners:{Q9H4X1;Q96PU4;Q9BQG0;Q15173;O43159;Q71SY5;Q8N726}  
22717 Pathogen[ POC206] interacts with 7 human partners:{O43159;Q9H4X1;Q8N726;Q15173;Q9BQG0;Q71SY5;Q96PU4}  
22718 Pathogen[ P03363] interacts with 7 human partners:{Q9H4X1;Q71SY5;Q9BQG0;Q15173;Q8N726;O43159;Q96PU4}  
22719 [Cluster 2066]GO:0043536+P biological\_process [name] positive regulation of blood vessel endothelial cell migration [def] "Any process that activates or increases the frequency, rate or extent of the migration of the endothelial cells of blood vessels." [GOC  
22720 Pathogen[ Q2Q067] interacts with 2 human partners:{P31749;Q8IY63}  
22721 Pathogen[ POC214] interacts with 2 human partners:{Q8IY63;P31749}  
22722 Pathogen[ P03346] interacts with 2 human partners:{Q8IY63;P31749}  
22723 Pathogen[ Q85601] interacts with 2 human partners:{P31749;Q8IY63}  
22724 Pathogen[ P14079] interacts with 1 human partners:{Q8IY63}  
22725 Pathogen[ P03383] interacts with 2 human partners:{P31749;Q8IY63}  
22726 Pathogen[ P03410] interacts with 2 human partners:{P31749;Q8IY63}  
22727 Pathogen[ P14075] interacts with 2 human partners:{Q8IY63;P31749}  
22728 Pathogen[ POC206] interacts with 2 human partners:{P31749;Q8IY63}  
22729 Pathogen[ P03363] interacts with 2 human partners:{Q8IY63;P31749}  
22730 [Cluster 2067]GO:0006898+P biological\_process [name] receptor-mediated endocytosis [def] "An endocytosis process in which cell surface receptors ensure specificity of transport. A specific receptor on the cell surface binds tightly to the extracellular macromolecule (the ligand) that it recognizes\_ the plasma-membrane region containing the receptor-ligand complex then undergoes endocytosis, forming a transport vesicle containing the receptor-ligand complex and excluding most other plasma-membrane proteins. Receptor-mediated endocytosis generally occurs via clathrin-coated pits and vesicles." [GOC  
22731 Pathogen[ Q2Q067] interacts with 3 human partners:{P53675;Q00610;P61966}  
22732 Pathogen[ POC214] interacts with 2 human partners:{P53675;P61966}  
22733 Pathogen[ P03346] interacts with 6 human partners:{P61966;Q15036;P53675;Q13492;Q00610;O75146}  
22734 Pathogen[ Q85601] interacts with 4 human partners:{P53675;Q00610;Q15036;P61966}  
22735 Pathogen[ P14079] interacts with 8 human partners:{Q13492;Q15036;P61966;O75146;Q00610;Q01518;Q9NR12;P53675}  
22736 Pathogen[ P03383] interacts with 2 human partners:{Q00610;P53675}  
22737 Pathogen[ P03410] interacts with 7 human partners:{Q00610;O75146;Q13492;Q15036;Q01518;P53675;P61966}  
22738 Pathogen[ P14075] interacts with 2 human partners:{P53675;Q00610}  
22739 Pathogen[ POC206] interacts with 4 human partners:{P53675;P61966;Q00610;Q15036}  
22740 Pathogen[ P03363] interacts with 4 human partners:{Q00610;O75146;Q9NR12;P53675}  
22741 [Cluster 2068]GO:0051131+P biological\_process [name] chaperone-mediated protein complex assembly [def] "The aggregation, arrangement and bonding together of a set of components to form a protein complex, mediated by chaperone molecules that do not form part of the finished complex." [GOC  
22742 Pathogen[ Q2Q067] interacts with 3 human partners:{P07900;Q9P2T0;P78371}

22743 Pathogen[ P0C214] interacts with 4 human partners:{P78371;P34932;Q9P2T0;P10809}

22744 Pathogen[ P03346] interacts with 5 human partners:{P07900;Q6ZW61;P78371;Q9P2T0;P34932}

22745 Pathogen[ Q85601] interacts with 4 human partners:{P07900;Q9P2T0;P34932;P78371}

22746 Pathogen[ P14079] interacts with 4 human partners:{P78371;Q9P2T0;P07900;Q6ZW61}

22747 Pathogen[ P03383] interacts with 3 human partners:{P07900;P78371;Q9P2T0}

22748 Pathogen[ P03410] interacts with 4 human partners:{Q9P2T0;Q6ZW61;P07900;P78371}

22749 Pathogen[ P14075] interacts with 4 human partners:{Q6ZW61;P78371;P07900;Q9P2T0}

22750 Pathogen[ P0C206] interacts with 5 human partners:{Q6ZW61;P34932;P07900;Q9P2T0;P78371}

22751 Pathogen[ P03363] interacts with 5 human partners:{P07900;Q9P2T0;P34932;Q6ZW61;P78371}

22752 [Cluster 2069]GO:0010507+P biological\_process [name] negative regulation of autophagy [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of autophagy. Autophagy is the process in which cells digest parts of their own cytoplasm." [GOC]

22753 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NNW5}

22754 Pathogen[ P0C214] interacts with 1 human partners:{Q9NNW5}

22755 Pathogen[ P03346] interacts with 3 human partners:{Q92622;P51397;Q9NNW5}

22756 Pathogen[ Q85601] interacts with 1 human partners:{Q9NNW5}

22757 Pathogen[ P14079] interacts with 3 human partners:{Q9NNW5;P51397;Q92622}

22758 Pathogen[ P03383] interacts with 2 human partners:{P51397;Q9NNW5}

22759 Pathogen[ P03410] interacts with 2 human partners:{P51397;Q9NNW5}

22760 Pathogen[ P14075] interacts with 2 human partners:{P51397;Q9NNW5}

22761 Pathogen[ P0C206] interacts with 3 human partners:{Q9NNW5;Q92622;P51397}

22762 Pathogen[ P03363] interacts with 2 human partners:{Q92622;Q9NNW5}

22763 [Cluster 2070]GO:0051155+P biological\_process [name] positive regulation of striated muscle cell differentiation [def] "Any process that activates or increases the frequency, rate or extent of striated muscle cell differentiation." [CL]

22764 Pathogen[ Q2Q067] interacts with 1 human partners:{Q15014}

22765 Pathogen[ P0C214] interacts with 1 human partners:{Q15014}

22766 Pathogen[ P03346] interacts with 1 human partners:{Q15014}

22767 Pathogen[ Q85601] interacts with 1 human partners:{Q15014}

22768 Pathogen[ P14079] interacts with 1 human partners:{Q15014}

22769 Pathogen[ P03383] interacts with 1 human partners:{Q15014}

22770 Pathogen[ P03410] interacts with 1 human partners:{Q15014}

22771 Pathogen[ P14075] interacts with 1 human partners:{Q15014}

22772 Pathogen[ P0C206] interacts with 1 human partners:{Q15014}

22773 Pathogen[ P03363] interacts with 1 human partners:{Q15014}

22774 [Cluster 2071]GO:0045007+P biological\_process [name] depurination [def] "The disruption of the bond between the sugar in the backbone and the A or G base, causing the base to be removed and leaving a depurinated sugar." [GOC]

22775 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9UIF7;P29372;O15527}

22776 Pathogen[ P0C214] interacts with 3 human partners:{Q9UIF7;P29372;O15527}

22777 Pathogen[ P03346] interacts with 3 human partners:{Q9UIF7;P29372;O15527}

22778 Pathogen[ Q85601] interacts with 3 human partners:{O15527;Q9UIF7;P29372}

22779 Pathogen[ P14079] interacts with 3 human partners:{Q9UIF7;P29372;O15527}

22780 Pathogen[ P03383] interacts with 2 human partners:{O15527;P29372}

22781 Pathogen[ P03410] interacts with 3 human partners:{O15527;P29372;Q9UIF7}

22782 Pathogen[ P14075] interacts with 3 human partners:{O15527;Q9UIF7;P29372}

22783 Pathogen[ P0C206] interacts with 3 human partners:{O15527;P29372;Q9UIF7}

22784 Pathogen[ P03363] interacts with 3 human partners:{O15527;P29372;Q9UIF7}

22785 [Cluster 2072]GO:0090399+P biological\_process [name] replicative senescence [def] "A cellular senescence process associated with the dismantling of a cell as a response to telomere shortening and/or cellular aging." [GOC]

22786 Pathogen[ Q2Q067] interacts with 5 human partners:{O14757;O96017;O14746;P38936;P42771}

22787 Pathogen[ P0C214] interacts with 5 human partners:{O14746;P38936;O96017;P42771;O14757}

22788 Pathogen[ P03346] interacts with 5 human partners:{O96017;O14757;P42771;O14746;P38936}

22789 Pathogen[ Q85601] interacts with 5 human partners:{O96017;O14757;P42771;O14746;P38936}

22790 Pathogen[ P14079] interacts with 3 human partners:{O14746;P38936;P42771}

22791 Pathogen[ P03383] interacts with 4 human partners:{O14757;O14746;P42771;O96017}

22792 Pathogen[ P03410] interacts with 5 human partners:{P42771;O14746;P38936;O96017;O14757}

22793 Pathogen[ P14075] interacts with 4 human partners:{O14746;P42771;O96017;O14757}

22794 Pathogen[ P0C206] interacts with 4 human partners:{O96017;P42771;P38936;O14746}

22795 Pathogen[ P03363] interacts with 4 human partners:{O14746;O96017;P42771;O14757}

22796 [Cluster 2073]GO:0031146+P biological\_process [name] SCF-dependent proteasomal ubiquitin-dependent protein catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of a protein or peptide by hydrolysis of its peptide bonds, initiated by the covalent attachment of ubiquitin, with ubiquitin-protein ligation catalyzed by an SCF (Skp1/Cull1/F-box protein) complex, and mediated by the proteasome." [PMID]



22797 Pathogen[ Q2Q067] interacts with 9 human  
partners:{Q9UJT9;P41002;Q13616;Q9UKT7;Q969H0;Q9NRD1;P63208;Q9UKT5;P62877}

22798 Pathogen[ POC214] interacts with 12 human  
partners:{Q9UKA1;P41002;P63208;Q9NRD1;P62877;Q9UKT7;Q13616;Q969H0;Q9H469;Q9UJT9;Q5XUX0;Q9UKT5}

22799 Pathogen[ P03346] interacts with 13 human  
partners:{Q9UKT7;Q9H469;Q13616;Q9UJT9;Q969U6;P41002;Q9UKA1;P62877;Q9UKT5;Q9NRD1;P63208;Q969H0;Q5XUX0}

22800 Pathogen[ Q85601] interacts with 11 human  
partners:{Q969H0;P62877;Q13616;P41002;Q9UKA1;Q9UKT7;P63208;Q9H469;Q9UJT9;Q9UKT5;Q9NRD1}

22801 Pathogen[ P14079] interacts with 10 human  
partners:{Q5XUX0;Q9UKT5;Q969H0;P62877;P41002;Q9UKT7;Q9NRD1;P63208;Q9UJT9;Q13616}

22802 Pathogen[ P03383] interacts with 9 human  
partners:{P41002;Q13616;P63208;Q9UKT7;Q9UKT5;Q969H0;P62877;Q9NRD1;Q5XUX0}

22803 Pathogen[ P03410] interacts with 12 human  
partners:{Q9H469;Q9UKT7;Q9NRD1;Q9UKT5;Q5XUX0;P41002;P63208;Q969H0;P62877;Q969U6;Q13616;Q9UJT9}

22804 Pathogen[ P14075] interacts with 9 human  
partners:{Q9UKT7;Q9UKT5;P63208;Q9NRD1;P41002;Q13616;Q969H0;Q5XUX0;P62877}

22805 Pathogen[ POC206] interacts with 13 human  
partners:{Q9UJT9;P62877;Q9UKA1;Q969H0;Q13616;Q9NRD1;Q9UKT7;P63208;Q5XUX0;Q9H469;Q9UKT5;P41002;Q969U6}

22806 Pathogen[ P03363] interacts with 13 human  
partners:{Q9UJT9;P41002;Q13616;P62877;Q9UKT5;Q969H0;Q9UKA1;Q969U6;Q9UKT7;Q5XUX0;Q9NRD1;P63208;Q9H469}

22807 [Cluster 2074]GO:0031860+P biological\_process [name] telomeric 3' overhang formation  
[def] "The formation of the single stranded telomeric 3' overhang, a conserved feature that ranges in length from 12 nt in budding yeast to approximately 500 nt in humans."  
[PMID

22808 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9H816}

22809 Pathogen[ POC214] interacts with 1 human partners:{Q9H816}

22810 Pathogen[ P03346] interacts with 1 human partners:{Q9H816}

22811 Pathogen[ Q85601] interacts with 1 human partners:{Q9H816}

22812 Pathogen[ P14079] interacts with 1 human partners:{Q9H816}

22813 Pathogen[ P03383] interacts with 1 human partners:{Q9H816}

22814 Pathogen[ P03410] interacts with 1 human partners:{Q9H816}

22815 Pathogen[ P14075] interacts with 1 human partners:{Q9H816}

22816 Pathogen[ POC206] interacts with 1 human partners:{Q9H816}

22817 Pathogen[ P03363] interacts with 1 human partners:{Q9H816}

22818 [Cluster 2075]GO:0090007+P biological\_process [name] regulation of mitotic anaphase  
[def] "Any process that modulates the frequency, rate or extent of mitotic anaphase, a cell cycle process comprising the steps by which a cell progresses through anaphase, the stage of mitosis during which the two sets of chromosomes separate and move away from each other." [GOC

22819 Pathogen[ Q2Q067] interacts with 1 human partners:{Q99741}

22820 Pathogen[ POC214] interacts with 1 human partners:{Q99741}

22821 Pathogen[ P03346] interacts with 1 human partners:{Q99741}

22822 Pathogen[ Q85601] interacts with 1 human partners:{Q99741}

22823 Pathogen[ P14079] interacts with 1 human partners:{Q99741}

22824 Pathogen[ P03383] interacts with 1 human partners:{Q99741}

22825 Pathogen[ P03410] interacts with 1 human partners:{Q99741}

22826 Pathogen[ P14075] interacts with 1 human partners:{Q99741}

22827 Pathogen[ POC206] interacts with 1 human partners:{Q99741}

22828 Pathogen[ P03363] interacts with 1 human partners:{Q99741}

22829 [Cluster 2076]GO:0035116+P biological\_process [name] embryonic hindlimb morphogenesis  
[def] "The process, occurring in the embryo, by which the anatomical structures of the hindlimbs are generated and organized. The hindlimbs are the posterior limbs of an animal." [ISBN

22830 Pathogen[ Q2Q067] interacts with 6 human  
partners:{Q05516;P35548;P51826;P78337;Q9HBD4;Q03112}

22831 Pathogen[ POC214] interacts with 6 human  
partners:{P78337;Q03112;Q9HBD4;P51826;P35548;Q05516}

22832 Pathogen[ P03346] interacts with 9 human  
partners:{Q9HBD4;P78337;P35548;Q68CZ1;P51826;Q95076;Q03112;Q05516;Q9P2D1}

22833 Pathogen[ Q85601] interacts with 7 human  
partners:{Q9P2D1;P51826;Q03112;P78337;P35548;Q9HBD4;Q05516}

22834 Pathogen[ P14079] interacts with 6 human  
partners:{P78337;Q68CZ1;Q05516;Q9P2D1;P28360;P51826}

22835 Pathogen[ P03383] interacts with 6 human  
partners:{Q9HBD4;Q05516;P78337;Q03112;P35548;P51826}

22836 Pathogen[ P03410] interacts with 7 human  
partners:{Q03112;P51826;P35548;Q9P2D1;Q68CZ1;Q9HBD4;P78337}

22837 Pathogen[ P14075] interacts with 6 human  
partners:{P78337;Q9HBD4;P35548;Q03112;Q05516;P51826}

22838 Pathogen[ POC206] interacts with 7 human

22839 partners:{Q05516;Q9P2D1;P78337;Q03112;P35548;P51826;Q9HBD4}  
 Pathogen[ P03363] interacts with 7 human

22840 partners:{Q03112;P35548;P51826;Q9HBD4;O95076;P78337;Q05516}  
 [Cluster 2077]GO:0018153+P biological\_process [name] isopeptide cross-linking via  
 N6-(L-isoglutamyl)-L-lysine [def] "The formation of an isopeptide cross-link between  
 peptidyl-lysine and peptidyl-glutamine to produce N6-(L-isoglutamyl)-L-lysine." [RESID

22841 Pathogen[ Q2Q067] interacts with 2 human partners:{P21980;P07476}  
 22842 Pathogen[ P0C214] interacts with 2 human partners:{P07476;P21980}  
 22843 Pathogen[ P03346] interacts with 2 human partners:{P21980;P07476}  
 22844 Pathogen[ Q85601] interacts with 1 human partners:{P21980}  
 22845 Pathogen[ P14079] interacts with 2 human partners:{P07476;P21980}  
 22846 Pathogen[ P03383] interacts with 2 human partners:{P07476;P21980}  
 22847 Pathogen[ P03410] interacts with 2 human partners:{P21980;P07476}  
 22848 Pathogen[ P14075] interacts with 2 human partners:{P21980;P07476}  
 22849 Pathogen[ P0C206] interacts with 2 human partners:{P21980;P07476}  
 22850 Pathogen[ P03363] interacts with 1 human partners:{P07476}

22851 [Cluster 2078]GO:0060711+P biological\_process [name] labyrinthine layer development  
 [def] "The process in which the labyrinthine layer of the placenta progresses, from its  
 formation to its mature state." [GOC

22852 Pathogen[ Q2Q067] interacts with 3 human partners:{Q99966;Q9NR09;Q9GZT9}  
 22853 Pathogen[ P0C214] interacts with 3 human partners:{Q99966;Q9GZT9;Q9NR09}  
 22854 Pathogen[ P03346] interacts with 5 human  
 partners:{Q99966;Q99626;Q9GZT9;O14627;Q9NR09}

22855 Pathogen[ Q85601] interacts with 3 human partners:{Q99966;Q9GZT9;Q9NR09}  
 22856 Pathogen[ P14079] interacts with 3 human partners:{Q9GZT9;Q99966;Q9NR09}  
 22857 Pathogen[ P03383] interacts with 1 human partners:{Q9NR09}  
 22858 Pathogen[ P03410] interacts with 3 human partners:{Q9GZT9;Q9NR09;Q99966}  
 22859 Pathogen[ P14075] interacts with 2 human partners:{Q9GZT9;Q9NR09}  
 22860 Pathogen[ P0C206] interacts with 3 human partners:{Q9GZT9;Q9NR09;Q99966}  
 22861 Pathogen[ P03363] interacts with 4 human partners:{Q99626;Q9NR09;Q13480;O14627}

22862 [Cluster 2079]GO:0006337+P biological\_process [name] nucleosome disassembly [def]  
 "The controlled breakdown of nucleosomes, the beadlike structural units of eukaryotic  
 chromatin composed of histones and DNA." [GOC

22863 Pathogen[ Q2Q067] interacts with 14 human  
 partners:{Q92922;Q01105;Q969G3;Q92925;O14497;P51532;Q96GM5;Q16621;P17096;Q12824;Q68C  
 P9;Q8TAQ2;Q9Y5B9;Q6STE5}

22864 Pathogen[ P0C214] interacts with 14 human  
 partners:{Q12824;O14497;Q16621;P17096;Q6STE5;Q8TAQ2;Q01105;Q92922;Q969G3;Q92925;Q9Y5  
 B9;Q68CP9;Q96GM5;P51532}

22865 Pathogen[ P03346] interacts with 14 human  
 partners:{Q16621;Q96GM5;P51532;Q01105;Q92925;Q12824;P17096;Q6STE5;O14497;Q9Y5B9;Q969  
 G3;Q92922;Q68CP9;Q8TAQ2}

22866 Pathogen[ Q85601] interacts with 14 human  
 partners:{P17096;Q6STE5;Q16621;Q01105;Q92925;O14497;Q9Y5B9;Q96GM5;P51532;Q969G3;Q929  
 22;Q68CP9;Q12824;Q8TAQ2}

22867 Pathogen[ P14079] interacts with 13 human  
 partners:{Q9Y5B9;Q01105;Q6STE5;P17096;Q92922;P51532;O14497;Q8TAQ2;Q96GM5;Q16621;Q68C  
 P9;Q12824;Q92925}

22868 Pathogen[ P03383] interacts with 14 human  
 partners:{O14497;Q01105;P17096;Q12824;Q6STE5;Q96GM5;Q16621;Q969G3;Q68CP9;Q92925;Q8TA  
 Q2;P51532;Q92922;Q9Y5B9}

22869 Pathogen[ P03410] interacts with 14 human  
 partners:{Q9Y5B9;Q96GM5;O14497;P17096;Q01105;Q92925;Q969G3;Q16621;Q92922;P51532;Q8TA  
 Q2;Q68CP9;Q6STE5;Q12824}

22870 Pathogen[ P14075] interacts with 13 human  
 partners:{Q96GM5;P51532;P17096;Q92922;Q01105;O14497;Q9Y5B9;Q68CP9;Q92925;Q8TAQ2;Q128  
 24;Q16621;Q6STE5}

22871 Pathogen[ P0C206] interacts with 15 human  
 partners:{P51532;Q6STE5;Q92922;Q9Y5B9;Q12824;Q92925;Q8TAQ2;O14497;P17096;Q96GM5;Q166  
 21;Q969G3;Q01105;Q9UIG0;Q68CP9}

22872 Pathogen[ P03363] interacts with 14 human  
 partners:{Q92925;Q6STE5;Q8TAQ2;P51532;O14497;Q16621;Q9Y5B9;P17096;Q969G3;Q96GM5;Q011  
 05;Q92922;Q68CP9;Q12824}

22873 [Cluster 2080]GO:0051145+P biological\_process [name] smooth muscle cell  
 differentiation [def] "The process in which a relatively unspecialized cell acquires  
 specialized features of a smooth muscle cell\_ smooth muscle lacks transverse striations  
 in its constituent fibers and are almost always involuntary." [CL

22874 Pathogen[ Q2Q067] interacts with 3 human partners:{Q14934;Q12968;Q969V6}  
 22875 Pathogen[ P0C214] interacts with 3 human partners:{Q12968;Q14934;Q969V6}  
 22876 Pathogen[ P03346] interacts with 3 human partners:{Q969V6;Q14934;Q12968}  
 22877 Pathogen[ Q85601] interacts with 3 human partners:{Q969V6;Q14934;Q12968}  
 22878 Pathogen[ P14079] interacts with 4 human partners:{Q06413;Q12968;Q969V6;Q14934}  
 22879 Pathogen[ P03383] interacts with 3 human partners:{Q969V6;Q14934;Q12968}  
 22880 Pathogen[ P03410] interacts with 4 human partners:{Q12968;Q969V6;Q9BSN7;Q14934}  
 22881 Pathogen[ P14075] interacts with 3 human partners:{Q14934;Q969V6;Q12968}  
 22882 Pathogen[ P0C206] interacts with 3 human partners:{Q12968;Q969V6;Q14934}

22883 Pathogen[ P03363] interacts with 3 human partners:{Q969V6;Q12968;Q14934}

22884 [Cluster 2081]GO:0016477+P biological\_process [name] cell migration [def] "The orderly movement of a cell from one site to another, often during the development of a multicellular organism or multicellular structure." [GOC

22885 Pathogen[ Q2Q067] interacts with 23 human partners:{Q68CZ2;O14786;Q14160;Q96B97;Q13829;P54259;O43639;P56945;Q9ULQ0;O75400;Q8IX03;P62324;Q13469;P20719;Q9UGP4;P25063;O14713;Q13618;P16333;Q8WY41;O75360;P63000;Q8IXQ6}

22886 Pathogen[ P0C214] interacts with 26 human partners:{Q9UGP4;Q8IX03;Q8IXQ6;P63000;O14786;Q13469;P56945;Q13829;Q13618;O43639;Q68CZ2;Q9ULQ0;Q16658;Q8WZ19;P62324;P25063;Q14160;O75360;P16333;Q8WY41;Q92614;Q5VZK9;O14713;O75400;Q96B97;P54259}

22887 Pathogen[ P03346] interacts with 29 human partners:{Q96B97;Q9UGP4;Q8WZ19;O43639;Q92614;O75400;Q13618;Q96B42;Q8IX03;Q8IZE3;Q68CZ2;Q13829;P20719;P16333;P56945;Q13469;O95863;Q8IXQ6;O14713;Q8WY41;Q16658;O75360;P25063;Q14160;P62324;P63000;P54259;O14786;Q5VZK9}

22888 Pathogen[ Q85601] interacts with 25 human partners:{P54259;O75360;Q92614;Q8WZ19;O14713;Q68CZ2;P16333;O75400;P62324;P63000;Q13469;O43639;O14786;P56945;Q5VZK9;Q8IXQ6;Q96B97;Q14160;Q8WY41;Q9UGP4;Q13618;Q13829;Q8IX03;Q9GZM8;Q9ULQ0}

22889 Pathogen[ P14079] interacts with 24 human partners:{Q8IXQ6;Q8WY41;O75400;P62324;Q9ULQ0;Q92614;Q16658;Q13618;Q96B97;Q8IX03;Q68CZ2;P16333;P25063;O75360;Q9GZM8;O14713;O43639;P29459;P54259;Q13829;Q13469;Q96B42;Q13145;Q9UGP4}

22890 Pathogen[ P03383] interacts with 18 human partners:{P56945;Q13469;Q14160;P62324;O14713;Q9ULQ0;O75360;P25063;P63000;O75400;Q13618;Q8IXQ6;Q9UGP4;Q8WY41;Q8IX03;Q13829;P16333;P54259}

22891 Pathogen[ P03410] interacts with 31 human partners:{O14786;Q13829;Q16658;Q8IZE3;P63000;Q9GZM8;Q96B42;Q8IX03;Q92614;Q9UGP4;O43639;O14713;Q8WZ19;Q13145;P16333;Q14160;Q13618;O75400;Q68CZ2;P25063;Q8IXQ6;P62324;Q13469;Q9ULQ0;P56945;P54259;Q96B97;Q5VZK9;O75360;Q8WY41;P29459}

22892 Pathogen[ P14075] interacts with 18 human partners:{Q8IXQ6;P62324;Q14160;Q13618;O14713;Q9UGP4;Q9ULQ0;O75400;P16333;Q13469;O75360;Q8WY41;P63000;P54259;Q13829;P56945;Q8IX03;P25063}

22893 Pathogen[ P0C206] interacts with 29 human partners:{P62324;Q13829;Q13469;Q9UGP4;O14713;Q96B97;Q8IXQ6;Q8WY41;Q9GZM8;O14786;O75360;P54259;P25063;Q8WZ19;Q13618;P63000;Q16658;Q5VZK9;Q14160;Q92614;Q96B42;P16333;O75400;Q9ULQ0;P56945;P20719;O43639;Q68CZ2;Q8IX03}

22894 Pathogen[ P03363] interacts with 28 human partners:{O75360;Q8IXQ6;O14786;P54259;Q5VZK9;Q96B97;Q13618;P20719;Q14160;O14713;O43639;Q8WY41;P63000;O75400;Q9UGP4;P62324;P16333;Q68CZ2;Q92614;Q13469;Q13829;P56945;Q8IZE3;Q8IX03;Q8WZ19;Q16658;Q9ULQ0;Q96B42}

22895 [Cluster 2082]GO:0030512+P biological\_process [name] negative regulation of transforming growth factor beta receptor signaling pathway [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of any TGF-beta receptor signaling pathway." [GOC

22896 Pathogen[ Q2Q067] interacts with 29 human partners:{Q9Y5K5;Q9HAU4;Q9Y3F4;Q9HAZ2;O75807;Q86UU0;O60543;P62140;O95948;O14980;P12755;P84022;P36873;O15105;O43541;P62136;Q96PU5;Q15796;Q86TG7;Q13526;P12757;P35813;P0CG47;Q9UNE7;P0CG48;Q8N6I1;P62987;Q03112;P62979}

22897 Pathogen[ P0C214] interacts with 31 human partners:{P35813;Q9HAU4;P62140;P12757;O60543;Q03112;O75807;Q13526;P84022;Q8N6I1;Q9Y5K5;Q2VWA4;Q9HCE7;O14980;P0CG48;O15105;Q9HAZ2;P62136;Q15796;O43541;Q9Y3F4;P12755;Q86UU0;P62987;P0CG47;Q86TG7;P36873;O95948;P62979;Q9UNE7;Q96PU5}

22898 Pathogen[ P03346] interacts with 33 human partners:{P62136;O95405;P35813;Q9HAU4;Q96PU5;P12757;P62987;P0CG48;Q15796;Q86TG7;O15105;Q13526;Q2VWA4;Q9UBC0;P84022;O14980;O43541;Q9UNH7;Q9Y3F4;O95948;Q9UNE7;P36873;Q03112;P84550;Q8N6I1;P62979;P0CG47;P62140;Q86UU0;Q9HAZ2;O60543;O75807;Q9Y5K5}

22899 Pathogen[ Q85601] interacts with 31 human partners:{Q9HAU4;O43541;Q03112;P12757;Q86UU0;Q96PU5;P0CG48;Q2VWA4;P12755;Q8N6I1;O60543;P62136;O95948;Q13526;P36873;Q9Y5K5;Q9Y3F4;O14980;P62979;P84022;P0CG47;Q86TG7;O15105;P62140;P62987;P35813;O75807;Q9UNE7;Q9UNH7;Q15796;Q9HAZ2}

22900 Pathogen[ P14079] interacts with 30 human partners:{Q9HAZ2;Q9UNH7;P12755;P0CG48;P36873;O60543;O95948;Q2VWA4;O95405;O75807;P62136;Q9Y3F4;P62979;Q9HAU4;P62987;P35813;Q9Y5K5;P62140;O43294;Q86UU0;O43541;Q86TG7;Q92896;P12757;Q969W9;Q13526;O15105;P0CG47;Q8N6I1;Q13145}

22901 Pathogen[ P03383] interacts with 24 human partners:{P62140;O60543;P62987;Q8N6I1;Q86TG7;P35813;Q86UU0;P36873;P62136;Q9HAZ2;O15105;Q03112;P84022;O14980;O43541;Q9Y3F4;Q9Y5K5;P62979;P0CG47;Q15796;P12757;P0CG48;O75807;Q13526}

22902 Pathogen[ P03410] interacts with 34 human partners:{P84022;Q03112;P0CG48;O95405;Q969W9;P35813;Q9HAZ2;P12755;Q8N6I1;Q13526;P62136;Q13145;O43294;O95948;Q9Y3F4;P62979;Q9UNH7;Q92896;Q9UNE7;P62140;Q2VWA4;P12757;P36873;O75807;O43541;O15105;Q86TG7;P62987;Q9Y5K5;O60543;Q15796;Q86UU0;P0CG47;O14980}

22903 Pathogen[ P14075] interacts with 24 human partners:{Q86UU0;P35813;Q9Y3F4;O43541;P62140;Q15796;P36873;Q9HAZ2;P62136;P12757;O149

80;POCG48;P62979;Q13526;O60543;Q8N6I1;O75807;P62987;O15105;Q03112;POCG47;P84022;Q9Y5K5;Q86TG7}

22904 Pathogen[ POC206] interacts with 34 human partners:{P84022;O43541;Q96PU5;POCG48;Q9Y3F4;Q9HAZ2;Q86UU0;Q13526;Q8N6I1;Q9UNH7;Q9HAU4;O75807;Q2VWA4;Q9UBC0;Q15796;Q86TG7;Q9Y5K5;P12755;O15105;Q03112;Q9UNE7;P12757;P62979;O95405;O43294;P62140;POCG47;P84550;P62987;O60543;P36873;P62136;P35813;O95948}

22905 Pathogen[ P03363] interacts with 29 human partners:{Q9UBC0;Q9Y3F4;O60543;P62136;O95948;Q9UNH7;Q9Y5K5;P36873;Q9HAU4;P62140;P12757;Q03112;O14980;O15105;Q13526;O95405;Q96PU5;Q9UNE7;O43541;Q15796;P84022;P62987;Q86UU0;O75807;P84550;Q2VWA4;Q8N6I1;Q86TG7;Q9HAZ2}

22906 [Cluster 2083]GO:0044092+P biological\_process [name] negative regulation of molecular function [def] "Any process that stops or reduces the rate or extent of a molecular function, an elemental biological activity occurring at the molecular level, such as catalysis or binding." [GO

22907 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8WVJ9}

22908 Pathogen[ POC214] interacts with 1 human partners:{Q8WVJ9}

22909 Pathogen[ P03346] interacts with 1 human partners:{Q8WVJ9}

22910 Pathogen[ Q85601] interacts with 1 human partners:{Q8WVJ9}

22911 Pathogen[ P14079] interacts with 1 human partners:{Q8WVJ9}

22912 Pathogen[ P03383] interacts with 1 human partners:{Q8WVJ9}

22913 Pathogen[ P03410] interacts with 1 human partners:{Q8WVJ9}

22914 Pathogen[ P14075] interacts with 1 human partners:{Q8WVJ9}

22915 Pathogen[ POC206] interacts with 1 human partners:{Q8WVJ9}

22916 Pathogen[ P03363] interacts with 1 human partners:{Q8WVJ9}

22917 [Cluster 2084]GO:0007173+P biological\_process [name] epidermal growth factor receptor signaling pathway [def] "The series of molecular signals generated as a consequence of an epidermal growth factor receptor binding to one of its physiological ligands." [GOC

22918 Pathogen[ Q2Q067] interacts with 36 human partners:{Q92783;O94973;P31749;O95782;Q96B97;O43639;Q5T1C6;Q96B36;P56945;P63010;O75886;Q96CW1;O43524;O75582;Q9BPZ7;Q00610;Q9BVC4;Q92529;Q96RU7;Q99962;POCG47;P31946;POCG48;P60953;O14964;P27986;P62987;P09496;P46527;Q6R327;P22681;O15111;Q00987;P22736;Q8NFH8;P62979}

22919 Pathogen[ POC214] interacts with 39 human partners:{P22681;Q9BPZ7;Q96CW1;O60346;O15111;Q9BVC4;P56945;P62993;Q92934;Q00987;P46527;O14964;P60953;O75886;Q92529;Q9Y6I3;Q99962;O43639;P63010;Q6R327;POCG48;Q96B36;O75582;P62987;Q96RU7;O94973;POCG47;P09496;Q5T1C6;O95782;Q8NFH8;P16220;Q92783;P31946;P62979;P53680;P27986;Q96B97;P31749}

22920 Pathogen[ P03346] interacts with 47 human partners:{O60346;Q96B97;O15111;Q96RT1;P16220;P63010;O43639;Q8NFH8;P62987;Q9BVC4;P53680;O75159;Q9BPZ7;Q99962;POCG48;O75886;O95782;P60953;P62993;P09496;Q00987;Q96B36;P56945;P22736;P31749;Q96CW1;P42566;Q12778;Q12929;O75582;P98177;P62979;Q96RU7;P31946;P55211;POCG47;Q92783;O14964;P22681;Q9Y6I3;Q6R327;Q92529;P46527;O94973;O43524;Q00610;P27986}

22921 Pathogen[ Q85601] interacts with 40 human partners:{O60346;P22681;P31946;Q00610;P31749;P62993;P09496;Q96RT1;Q96CW1;O15111;Q9BPZ7;Q99962;Q96B36;POCG48;O43639;O75886;P27986;Q9BVC4;P56945;P16220;Q8NFH8;P22736;Q92529;Q96B97;P53680;O75582;Q92783;O14964;P62979;O94973;Q96RU7;POCG47;P60953;Q9Y6I3;P63010;P62987;Q00987;Q5T1C6;P46527;O95782}

22922 Pathogen[ P14079] interacts with 40 human partners:{Q6R327;O75886;Q96CW1;Q12929;P09327;POCG48;P49069;Q00610;O43597;Q9Y6I3;O75582;P42566;Q92783;P22736;O60346;Q96B97;P62979;Q9BVC4;P62987;Q00987;Q96RT1;O95782;Q92934;P31946;Q8NFH8;Q5T1C6;P63010;O94973;Q96RU7;P62993;O43639;P46527;Q96B36;P49023;Q9BPZ7;Q92529;POCG47;P53680;P09496;Q99962}

22923 Pathogen[ P03383] interacts with 26 human partners:{Q96CW1;P27986;P56945;O75582;Q8NFH8;Q00610;P16220;P62987;P31946;P31749;Q9BPZ7;O15111;P60953;O75886;Q96B36;P63010;P46527;O95782;Q92783;Q96RU7;P62979;POCG47;POCG48;O94973;O14964;Q5T1C6}

22924 Pathogen[ P03410] interacts with 44 human partners:{Q00610;P09496;P49069;O95782;P46527;Q96CW1;Q92529;P27986;POCG48;Q96RT1;P53680;O43597;Q9Y6I3;O15111;O43639;Q8NFH8;O75582;Q9BPZ7;Q92783;P31749;Q92934;Q9BVC4;P62979;Q96B36;Q5T1C6;P22736;P16220;Q6R327;Q96RU7;P63010;P60953;O60346;P62987;P56945;Q96B97;Q99962;Q00987;P62993;P42566;O94973;Q12929;POCG47;O75886;P31946}

22925 Pathogen[ P14075] interacts with 28 human partners:{P60953;O15111;P09496;O94973;Q96CW1;O75886;O75582;Q92783;Q5T1C6;P46527;Q9BPZ7;Q96B36;P31749;POCG48;P62979;O14964;Q6R327;O95782;P27986;P62987;Q96RU7;P63010;POCG47;P16220;P31946;Q8NFH8;Q00610;P56945}

22926 Pathogen[ POC206] interacts with 44 human partners:{O14964;P53680;P63010;POCG48;Q96RT1;O94973;P31749;P16220;O75582;Q96B36;Q96B97;Q00610;Q99962;Q92783;P22736;P27986;P62993;Q96RU7;P09496;P31946;Q92934;Q8NFH8;Q6R327;P22681;Q96CW1;O15111;P62979;Q5T1C6;P46527;Q9BPZ7;Q9Y6I3;O43597;P60953;O95782;POCG47;P42566;P56945;O60346;Q92529;P62987;O75886;Q00987;O43639;Q9BVC4}

22927 Pathogen[ P03363] interacts with 30 human partners:{P22681;O75159;Q9BVC4;Q96RT1;Q96B36;Q99962;O75886;Q92783;Q96B97;O15111;P31946;P16220;Q00610;O43639;Q8NFH8;O94973;Q92529;O43524;Q13480;P31749;P63010;Q12929;P62987;O14964;O95782;P56945;P60953;P27986;Q6R327;Q96CW1}

22928 [Cluster 2085]GO:0010838+P biological\_process [name] positive regulation of

keratinocyte proliferation [def] "Any process that increases the rate, frequency or extent of keratinocyte proliferation. Keratinocyte proliferation is the multiplication or reproduction of keratinocytes, resulting in the expansion of a cell population." [GOC

22929 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8WVJ9}

22930 Pathogen[ P0C214] interacts with 1 human partners:{Q8WVJ9}

22931 Pathogen[ P03346] interacts with 1 human partners:{Q8WVJ9}

22932 Pathogen[ Q85601] interacts with 1 human partners:{Q8WVJ9}

22933 Pathogen[ P14079] interacts with 1 human partners:{Q8WVJ9}

22934 Pathogen[ P03383] interacts with 1 human partners:{Q8WVJ9}

22935 Pathogen[ P03410] interacts with 1 human partners:{Q8WVJ9}

22936 Pathogen[ P14075] interacts with 1 human partners:{Q8WVJ9}

22937 Pathogen[ P0C206] interacts with 1 human partners:{Q8WVJ9}

22938 Pathogen[ P03363] interacts with 1 human partners:{Q8WVJ9}

22939 [Cluster 2086]GO:0016973+P biological\_process [name] poly(A)+ mRNA export from nucleus [def] "The directed movement of poly(A)+ mRNA out of the nucleus into the cytoplasm." [GOC

22940 Pathogen[ Q2Q067] interacts with 4 human partners:{Q86U42;Q9UBU9;Q53GS7;Q9H4D5}

22941 Pathogen[ P0C214] interacts with 4 human partners:{Q53GS7;Q9H4D5;Q86U42;Q9UBU9}

22942 Pathogen[ P03346] interacts with 4 human partners:{Q86U42;Q53GS7;Q9H4D5;Q9UBU9}

22943 Pathogen[ Q85601] interacts with 4 human partners:{Q9UBU9;Q53GS7;Q9H4D5;Q86U42}

22944 Pathogen[ P14079] interacts with 4 human partners:{Q9H4D5;Q9UBU9;Q53GS7;Q86U42}

22945 Pathogen[ P03383] interacts with 4 human partners:{Q9UBU9;Q9H4D5;Q53GS7;Q86U42}

22946 Pathogen[ P03410] interacts with 4 human partners:{Q9H4D5;Q9UBU9;Q86U42;Q53GS7}

22947 Pathogen[ P14075] interacts with 4 human partners:{Q53GS7;Q9UBU9;Q9H4D5;Q86U42}

22948 Pathogen[ P0C206] interacts with 4 human partners:{Q53GS7;Q86U42;Q9H4D5;Q9UBU9}

22949 Pathogen[ P03363] interacts with 4 human partners:{Q53GS7;Q9H4D5;Q9UBU9;Q86U42}

22950 [Cluster 2087]GO:0050718+P biological\_process [name] positive regulation of interleukin-1 beta secretion [def] "Any process that activates or increases the frequency, rate or extent of the regulated release of interleukin-1 beta from a cell or group of cells." [GOC

22951 Pathogen[ Q2Q067] interacts with 4 human partners:{Q8WXC3;O14862;Q9C000;Q9Y2G2}

22952 Pathogen[ P0C214] interacts with 4 human partners:{Q8WXC3;Q9Y2G2;O14862;Q9C000}

22953 Pathogen[ P03346] interacts with 6 human partners:{Q9NX02;Q8WXC3;O95361;Q9Y2G2;O14862;Q9C000}

22954 Pathogen[ Q85601] interacts with 3 human partners:{Q9Y2G2;Q8WXC3;O14862}

22955 Pathogen[ P14079] interacts with 5 human partners:{Q8WXC3;Q9C000;O14862;Q9Y2G2;O95361}

22956 Pathogen[ P03383] interacts with 3 human partners:{O14862;Q8WXC3;Q9Y2G2}

22957 Pathogen[ P03410] interacts with 4 human partners:{Q9Y2G2;O14862;Q9C000;Q8WXC3}

22958 Pathogen[ P14075] interacts with 3 human partners:{O14862;Q8WXC3;Q9Y2G2}

22959 Pathogen[ P0C206] interacts with 5 human partners:{Q9C000;Q9Y2G2;O14862;O95361;Q8WXC3}

22960 Pathogen[ P03363] interacts with 5 human partners:{Q9C000;Q9NX02;Q8WXC3;Q9Y2G2;O14862}

22961 [Cluster 2088]GO:0000461+P biological\_process [name] endonucleolytic cleavage to generate mature 3'-end of SSU-rRNA from (SSU-rRNA, 5.8S rRNA, LSU-rRNA) [def] "Endonucleolytic cleavage at the 3'-end of the SSU-rRNA from an originally tricistronic rRNA transcript that contained the Small Subunit (SSU) rRNA, the 5.8S rRNA, and the Large Subunit (LSU) rRNA in that order from 5' to 3' along the primary transcript, to produce the mature end of the SSU-rRNA." [GOC

22962 Pathogen[ Q2Q067] interacts with 2 human partners:{P08865;P63220}

22963 Pathogen[ P0C214] interacts with 2 human partners:{P63220;P08865}

22964 Pathogen[ P03346] interacts with 2 human partners:{P08865;P63220}

22965 Pathogen[ Q85601] interacts with 2 human partners:{P63220;P08865}

22966 Pathogen[ P14079] interacts with 2 human partners:{P63220;P08865}

22967 Pathogen[ P03383] interacts with 2 human partners:{P08865;P63220}

22968 Pathogen[ P03410] interacts with 2 human partners:{P63220;P08865}

22969 Pathogen[ P14075] interacts with 2 human partners:{P63220;P08865}

22970 Pathogen[ P0C206] interacts with 2 human partners:{P08865;P63220}

22971 Pathogen[ P03363] interacts with 2 human partners:{P08865;P63220}

22972 [Cluster 2089]GO:0050768+P biological\_process [name] negative regulation of neurogenesis [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of neurogenesis, the origin and formation of neurons." [GOC

22973 Pathogen[ Q2Q067] interacts with 6 human partners:{P63172;Q9Y2D1;Q13127;Q86VS8;Q15154;Q9GZU7}

22974 Pathogen[ P0C214] interacts with 6 human partners:{Q15154;Q9GZU7;Q86VS8;Q9Y2D1;Q13127;P63172}

22975 Pathogen[ P03346] interacts with 6 human partners:{Q86VS8;Q15154;Q9Y2D1;Q9GZU7;P63172;Q13127}

22976 Pathogen[ Q85601] interacts with 6 human partners:{Q13127;Q15154;Q86VS8;Q9GZU7;P63172;Q9Y2D1}

22977 Pathogen[ P14079] interacts with 5 human partners:{P63172;Q86VS8;Q15154;Q13127;Q9GZU7}

22978 Pathogen[ P03383] interacts with 6 human partners:{P63172;Q9GZU7;Q15154;Q86VS8;Q9Y2D1;Q13127}

22979 Pathogen[ P03410] interacts with 6 human

22980 partners:{Q15154;Q9Y2D1;Q9GZU7;P63172;Q86VS8;Q13127}  
Pathogen[ P14075] interacts with 6 human

22981 partners:{Q9Y2D1;P63172;Q15154;Q9GZU7;Q13127;Q86VS8}  
Pathogen[ POC206] interacts with 6 human

22982 partners:{Q9Y2D1;Q13127;Q9GZU7;Q86VS8;Q15154;P63172}  
Pathogen[ P03363] interacts with 6 human

22983 partners:{Q86VS8;Q9Y2D1;Q13127;P63172;Q9GZU7;Q15154}  
[Cluster 2090]GO:0031214+P biological\_process [name] biomineral tissue development  
[def] "Formation of hard tissues that consist mainly of inorganic compounds, and also  
contain a small amounts of organic matrices that are believed to play important roles in  
their formation." [PMID

22984 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UBB9}  
22985 Pathogen[ POC214] interacts with 3 human partners:{P10124;Q6ZRV2;Q9UBB9}  
22986 Pathogen[ P03346] interacts with 1 human partners:{Q6ZRV2}  
22987 Pathogen[ Q85601] interacts with 2 human partners:{Q9UBB9;Q6ZRV2}  
22988 Pathogen[ P14079] interacts with 9 human  
partners:{P02808;A1E959;P15515;P15516;Q6ZRV2;Q9NQ76;Q9UBB9;P10124;Q13316}  
22989 Pathogen[ P03383] interacts with 3 human partners:{P10124;Q9UBB9;Q6ZRV2}  
22990 Pathogen[ P03410] interacts with 10 human  
partners:{P02808;P10124;Q9UBB9;P15515;Q9NQ76;P15516;Q9NRM1;A1E959;Q6ZRV2;Q13316}  
22991 Pathogen[ P14075] interacts with 5 human  
partners:{P15515;Q9UBB9;P10124;Q6ZRV2;P02808}  
22992 Pathogen[ POC206] interacts with 6 human  
partners:{Q13316;Q9UBB9;P15515;P02808;Q6ZRV2;P10124}  
22993 Pathogen[ P03363] interacts with 3 human partners:{P02808;P15515;Q6ZRV2}  
22994 [Cluster 2091]GO:0048469+P biological\_process [name] cell maturation [def] "A  
developmental process, independent of morphogenetic (shape) change, that is required for  
a cell to attain its fully functional state." [GOC

22995 Pathogen[ Q2Q067] interacts with 9 human  
partners:{P48380;O75896;P09086;P23769;P56693;Q13951;Q13761;Q99814;P49715}  
22996 Pathogen[ POC214] interacts with 9 human  
partners:{Q13761;O75896;P23769;P56693;Q13515;Q99814;P09086;P48380;Q13951}  
22997 Pathogen[ P03346] interacts with 12 human  
partners:{P09086;Q7RTS1;Q13515;P23769;P48380;P56693;P49715;O75896;Q13951;Q13761;Q998  
14;P35713}  
22998 Pathogen[ Q85601] interacts with 9 human  
partners:{P09086;Q13951;P23769;Q99814;Q13515;P56693;P49715;P48380;Q13761}  
22999 Pathogen[ P14079] interacts with 11 human  
partners:{Q99814;O75896;P09086;P48380;Q7RTS1;P49715;P56693;Q13515;Q13761;Q13951;P237  
69}

23000 Pathogen[ P03383] interacts with 7 human  
partners:{Q13761;Q13515;O75896;P48380;P23769;Q13951;P56693}  
23001 Pathogen[ P03410] interacts with 9 human  
partners:{Q99814;Q13515;Q7RTS1;P48380;P56693;Q13951;P23769;Q13761;O75896}  
23002 Pathogen[ P14075] interacts with 7 human  
partners:{Q13951;P23769;P48380;Q13515;P56693;O75896;Q13761}  
23003 Pathogen[ POC206] interacts with 10 human  
partners:{Q13515;Q13951;P49715;P56693;P48380;O75896;P09086;P23769;Q99814;Q13761}  
23004 Pathogen[ P03363] interacts with 8 human  
partners:{Q7RTS1;P09086;Q13951;P56693;Q99814;P48380;Q13761;Q13515}  
23005 [Cluster 2092]GO:0009312+P biological\_process [name] oligosaccharide biosynthetic  
process [def] "The chemical reactions and pathways resulting in the formation of  
oligosaccharides, molecules with between two and (about) 20 monosaccharide residues  
connected by glycosidic linkages." [ISBN

23006 Pathogen[ Q2Q067] interacts with 1 human partners:{Q14746}  
23007 Pathogen[ POC214] interacts with 1 human partners:{Q14746}  
23008 Pathogen[ P03346] interacts with 1 human partners:{Q14746}  
23009 Pathogen[ Q85601] interacts with 1 human partners:{Q14746}  
23010 Pathogen[ P14079] interacts with 2 human partners:{Q14746;O75352}  
23011 Pathogen[ P03383] interacts with 1 human partners:{Q14746}  
23012 Pathogen[ P03410] interacts with 2 human partners:{Q14746;O75352}  
23013 Pathogen[ P14075] interacts with 1 human partners:{Q14746}  
23014 Pathogen[ POC206] interacts with 1 human partners:{Q14746}  
23015 Pathogen[ P03363] interacts with 1 human partners:{Q14746}  
23016 [Cluster 2093]GO:0051151+P biological\_process [name] negative regulation of smooth  
muscle cell differentiation [def] "Any process that stops, prevents, or reduces the  
frequency, rate or extent of smooth muscle cell differentiation." [CL

23017 Pathogen[ Q2Q067] interacts with 2 human partners:{P53805;Q9H204}  
23018 Pathogen[ POC214] interacts with 2 human partners:{Q9H204;P53805}  
23019 Pathogen[ P03346] interacts with 3 human partners:{P53805;P98177;Q9H204}  
23020 Pathogen[ Q85601] interacts with 2 human partners:{P53805;Q9H204}  
23021 Pathogen[ P14079] interacts with 2 human partners:{Q9H204;P53805}  
23022 Pathogen[ P03383] interacts with 2 human partners:{Q9H204;P53805}  
23023 Pathogen[ P03410] interacts with 2 human partners:{Q9H204;P53805}  
23024 Pathogen[ P14075] interacts with 2 human partners:{P53805;Q9H204}  
23025 Pathogen[ POC206] interacts with 3 human partners:{P53805;Q9NQX0;Q9H204}

23026 Pathogen[ P03363] interacts with 2 human partners:{P53805;Q9H204}

23027 [Cluster 2094]GO:0009048+P biological\_process [name] dosage compensation, by inactivation of X chromosome [def] "Compensating for the two-fold variation in X-chromosome

23028 Pathogen[ Q2Q067] interacts with 1 human partners:{Q92900}

23029 Pathogen[ P0C214] interacts with 1 human partners:{Q92900}

23030 Pathogen[ P03346] interacts with 1 human partners:{Q92900}

23031 Pathogen[ Q85601] interacts with 1 human partners:{Q92900}

23032 Pathogen[ P14079] interacts with 1 human partners:{Q92900}

23033 Pathogen[ P03383] interacts with 1 human partners:{Q92900}

23034 Pathogen[ P03410] interacts with 1 human partners:{Q92900}

23035 Pathogen[ P14075] interacts with 1 human partners:{Q92900}

23036 Pathogen[ P0C206] interacts with 1 human partners:{Q92900}

23037 Pathogen[ P03363] interacts with 1 human partners:{Q92900}

23038 [Cluster 2095]GO:0001569+P biological\_process [name] patterning of blood vessels [def] "The process that regulates the coordinated growth and sprouting of blood vessels giving rise to the organized vascular system." [GOC

23039 Pathogen[ Q2Q067] interacts with 5 human partners:{O14786;Q14934;P11831;Q96T37;Q12968}

23040 Pathogen[ P0C214] interacts with 5 human partners:{O14786;P11831;Q12968;Q14934;Q96T37}

23041 Pathogen[ P03346] interacts with 6 human partners:{P11831;P52951;Q14934;Q12968;Q96T37;O14786}

23042 Pathogen[ Q85601] interacts with 5 human partners:{P11831;O14786;Q14934;Q12968;Q96T37}

23043 Pathogen[ P14079] interacts with 3 human partners:{Q96T37;Q12968;Q14934}

23044 Pathogen[ P03383] interacts with 3 human partners:{P11831;Q14934;Q12968}

23045 Pathogen[ P03410] interacts with 5 human partners:{O14786;P11831;Q12968;Q96T37;Q14934}

23046 Pathogen[ P14075] interacts with 3 human partners:{P11831;Q14934;Q12968}

23047 Pathogen[ P0C206] interacts with 5 human partners:{Q96T37;Q12968;O14786;Q14934;P11831}

23048 Pathogen[ P03363] interacts with 6 human partners:{O14786;P11831;Q96T37;Q12968;P52951;Q14934}

23049 [Cluster 2096]GO:0051099+P biological\_process [name] positive regulation of binding [def] "Any process that activates or increases the rate or extent of binding, the selective interaction of a molecule with one or more specific sites on another molecule." [GOC

23050 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96FX2}

23051 Pathogen[ P0C214] interacts with 1 human partners:{Q96FX2}

23052 Pathogen[ P03346] interacts with 1 human partners:{Q96FX2}

23053 Pathogen[ Q85601] interacts with 1 human partners:{Q96FX2}

23054 Pathogen[ P14079] interacts with 1 human partners:{Q96FX2}

23055 Pathogen[ P03383] interacts with 1 human partners:{Q96FX2}

23056 Pathogen[ P03410] interacts with 1 human partners:{Q96FX2}

23057 Pathogen[ P14075] interacts with 1 human partners:{Q96FX2}

23058 Pathogen[ P0C206] interacts with 1 human partners:{Q96FX2}

23059 Pathogen[ P03363] interacts with 1 human partners:{Q96FX2}

23060 [Cluster 2097]GO:0048712+P biological\_process [name] negative regulation of astrocyte differentiation [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of astrocyte differentiation." [GOC

23061 Pathogen[ Q2Q067] interacts with 3 human partners:{P04198;Q9Y2D1;P47928}

23062 Pathogen[ P0C214] interacts with 3 human partners:{P47928;Q9Y2D1;P04198}

23063 Pathogen[ P03346] interacts with 3 human partners:{Q9Y2D1;P04198;P47928}

23064 Pathogen[ Q85601] interacts with 3 human partners:{Q9Y2D1;P04198;P47928}

23065 Pathogen[ P14079] interacts with 2 human partners:{P04198;P47928}

23066 Pathogen[ P03383] interacts with 3 human partners:{P04198;P47928;Q9Y2D1}

23067 Pathogen[ P03410] interacts with 3 human partners:{Q9Y2D1;P47928;P04198}

23068 Pathogen[ P14075] interacts with 3 human partners:{Q9Y2D1;P47928;P04198}

23069 Pathogen[ P0C206] interacts with 3 human partners:{Q9Y2D1;P04198;P47928}

23070 Pathogen[ P03363] interacts with 3 human partners:{P04198;Q9Y2D1;P47928}

23071 [Cluster 2098]GO:0055114+P biological\_process [name] oxidation-reduction process [def] "A metabolic process that results in the removal or addition of one or more electrons to or from a substance, with or without the concomitant removal or addition of a proton or protons." [GOC

23072 Pathogen[ Q2Q067] interacts with 56 human partners:{P02792;Q9ULD0;Q9UPP1;Q9NXW9;P09917;P07195;Q9BUP3;P31040;Q6NS38;O75151;P49419;P15121;O14618;O75489;Q9Y2Z2;P21953;Q8NHM5;Q9NZC7;Q9BV57;P27695;Q06830;Q9BU89;P31350;Q96A73;P15559;Q7LG56;O00625;P29474;Q9NWT6;O75251;Q96Q83;O75306;P04406;P10599;P40925;P21912;Q14739;Q96KS0;O75164;Q9H6W3;Q13363;Q9BYZ2;Q9NNW7;Q9H6Z9;Q8N371;Q9BPX1;O95831;O14556;P40926;Q9GZT9;P00338;Q15652;Q7LBC6;Q16836;P07864;Q9UHB4}

23073 Pathogen[ P0C214] interacts with 106 human partners:{P29474;P02794;Q9GZZ9;Q8N371;Q8IX04;P49419;O75306;Q14739;P09417;P08294;P52209;P27695;P09917;O75874;P11413;Q9NVH6;Q99643;Q8NCN5;Q8N335;Q9BU89;P31350;Q13363;P11177;P07864;Q86XF0;Q5I0G3;P28331;P12694;P42898;Q9BV57;Q96KS0;Q9NNW7;Q9BRX8;P48735;Q96A73;P35270;Q9Y2Z2;Q9HA92;O75164;P40939;O75151;Q6ZMR3;Q99807;P40926;P16083;O14556;Q9Y2

- S2;P55789;Q06830;P53701;Q9NZC7;Q8TBF2;Q9UJ68;P15121;P00374;Q9UI17;Q9BUP3;P50213;Q16881;Q9H6Z9;Q6NS38;O43837;P21953;O14832;Q9NWM0;Q9H6W3;Q86WU2;Q15652;Q9GZT9;P30043;Q9ULD0;Q9BXP1;O14618;P23921;Q9NXW9;P09622;Q9UL12;P07327;O75489;Q9UHB4;P10599;P02792;O75251;Q96BT7;O00625;Q16698;P36551;Q9BYZ2;Q7LG56;Q9Y3D2;P48163;P21912;Q96Q83;P15559;P04406;P11586;Q7LBC6;Q9UPP1;Q16798;P07195;P51553;P18054;Q96NN9;Q9NWT6;P21695;Q8NHM5}
- 23074 Pathogen[ P03346] interacts with 66 human partners: {P02792;Q96A73;P16083;Q14739;P31040;P04406;Q9UBK8;P29474;Q16836;O75489;Q9BUP3;Q7LBC6;Q9UHB4;Q9BV57;Q9BXP1;Q8NCN5;P15121;P18054;Q86WU2;Q9ULD0;P02794;Q9BYW2;Q9Y2Z2;P15559;Q9NXW9;Q15652;O75151;P21912;O14618;P09917;P31350;P49419;Q7LG56;O14556;Q9NZC7;O75164;Q9GZT9;P40926;Q9UPP1;O95831;P00338;Q96Q83;Q96BT7;Q8N371;Q06830;P07195;Q96KS0;O75251;B2RXH2;Q9UGL1;Q13363;P10599;Q9BU89;O00625;P56545;O75306;P27695;Q9NWT6;Q8NHM5;P40925;Q9H6W3;Q8IWF2;Q8TDZ2;Q9H6Z9;Q9BYZ2;Q9NNW7}
- 23075 Pathogen[ Q85601] interacts with 54 human partners: {Q9NZC7;Q96A73;Q9UHB4;Q9H6Z9;O95831;Q8N371;Q6ZMR3;P09917;O75151;O75306;Q9BXP1;P21912;Q9NWT6;Q9Y2Z2;Q13363;P21953;P31350;Q9BV57;Q9H6W3;Q9NXW9;P10599;P07864;Q7LG56;O14556;Q9GZT9;Q96KS0;Q9BYZ2;Q8NHM5;P31040;Q9UPP1;P15121;P29474;Q6NS38;P40925;Q06830;P07195;Q96Q83;P02792;Q16836;O75164;O00625;P04406;Q15652;Q7LBC6;O14618;Q9ULD0;Q9BU89;P02794;P00338;Q9BUP3;P27695;P40926;P49419;Q14739}
- 23076 Pathogen[ P14079] interacts with 101 human partners: {O00625;Q9UHB4;Q86XF0;P00374;P48775;Q9GZT9;O75151;Q99807;P21953;Q8TDZ2;P00338;Q9C0B1;Q6SZ5;Q8IVL6;Q9NXW9;P13498;P16083;P52209;Q96A73;Q9NZV6;Q6P6C2;O75306;P00395;Q9Y2Z2;Q93099;Q15070;P14927;Q5SRE7;Q9NVH6;Q9BRX8;Q14739;Q8NHM5;Q15526;P31350;P15559;P07919;Q15652;Q6N021;Q7LG56;P07195;P14854;Q9BUP3;Q9H6W3;O95831;Q6ZMR3;Q86WU2;Q9NNW7;Q9BU89;Q9NZC7;P31040;Q8IUH2;Q9UPP1;Q9NWT6;O14832;Q6NS38;Q3KRA9;O75251;Q9H6Z9;Q9UL12;P07864;Q9HA92;P55789;P27695;Q9Y471;P09917;Q8NBK3;P02794;P10620;Q96KJ9;Q9Y3D2;Q9UI17;O75489;Q8TBF2;P03923;P10599;Q16878;Q9BT30;P03897;Q8NCN5;Q8N371;P21695;P36551;P40925;O43819;Q96Q83;Q9BYZ2;O43151;P53701;Q96KS0;O14618;Q9UJ68;P03901;P03886;Q9BV57;Q9NS9;Q9ULD0;Q7LBC6;Q16836;P42898;P04406;P21912}
- 23077 Pathogen[ P03383] interacts with 42 human partners: {P02794;Q9NWT6;P29474;P40926;O75251;Q9UHB4;P00338;Q9BYZ2;P31040;P07864;Q96A73;Q16836;O75489;O95831;P40925;Q9Y2Z2;P10599;O75151;Q96KS0;Q9H6W3;O75306;P31350;Q9BV57;O75164;Q9ULD0;Q15652;O14556;P07195;Q6ZMR3;O00625;Q9H6Z9;P04406;Q9BUP3;Q9BU89;P27695;Q8N371;Q96Q83;Q7LBC6;Q9UPP1;Q13363;P49419;Q9BXP1}
- 23078 Pathogen[ P03410] interacts with 101 human partners: {P15559;Q3KRA9;Q9UPP1;Q9H6W3;Q9BYZ2;Q96KJ9;Q9BU89;P02794;P10599;P31350;O14556;Q6P6C2;Q14739;Q9NWT6;Q9BXP1;Q9ULD0;Q15652;Q9NVH6;Q96KS0;Q9UI17;Q9H6Z9;Q9Y2Z2;Q9NXW9;O75251;Q8TDZ2;P00374;Q9NZC7;P12694;P07919;Q6ZMR3;Q6N021;P21953;Q96Q83;Q6NS38;P07195;Q7LBC6;P36551;Q9GZT9;P52209;Q93099;O00625;O75151;P29474;Q9UJ68;P48775;Q9Y3D2;P03886;Q86XF0;P14927;P00338;Q9HA92;Q9UL12;P53701;P16083;P31040;P49419;Q9BUP3;O75489;P42898;O95831;P21912;O14832;P04406;Q9UHB4;O43151;Q16836;Q9NVH6;Q99643;Q9BT30;P03897;P40926;Q8NCN5;P27695;Q9Y471;O75306;P09917;P07864;P14854;P40925;Q99807;Q15070;P03901;Q9C0B1;P03923;O14618;P02792;Q8N371;P55789;O75164;P23921;Q9BRX8;Q9BV57;Q8TBF2;Q96A73;Q7LG56;Q06830;Q96SZ5;O43819;P21695;Q9NNW7;Q86WU2}
- 23079 Pathogen[ P14075] interacts with 49 human partners: {Q9NVH6;P29474;Q9BUP3;P40925;Q96KS0;Q9GZT9;P31350;Q8N371;Q96Q83;P27695;Q9BV57;Q9UPP1;Q15652;Q7LBC6;Q15070;Q9Y2Z2;P40926;Q8NCN5;O00625;P15559;Q9UHB4;P31040;O75306;P07195;Q9BU89;P04406;P49419;Q9NVH6;O95831;O75251;Q16836;P02794;Q9H6W3;P07864;Q9NWT6;P55789;Q9ULD0;Q96A73;P00338;O14832;Q9BYZ2;Q13363;O75489;Q9NXW9;O75151;O14556;O75164;Q9H6Z9;P10599}
- 23080 Pathogen[ P0C206] interacts with 78 human partners: {P27695;Q8N371;Q9NZV6;P07195;Q96Q83;P53701;P09917;Q6ZMR3;Q14739;P07864;P55789;Q9HA92;Q9BUP3;P50213;O75251;Q96KS0;Q9GZT9;O43151;Q9ULD0;P02794;O75306;Q3KRA9;Q6NS38;Q16836;P15559;Q9UPP1;O14832;Q8TBF2;Q96A73;Q9Y2Z2;Q9NXW9;Q9NVH6;P36551;Q86WU2;Q7LBC6;O00625;P21953;Q7LG56;Q9NNW7;O75151;Q9BXP1;Q15070;Q9NWT6;O95831;O14556;Q9Y3D2;Q9H6W3;Q9UJ68;P40925;Q99807;O14618;P04406;P40926;Q8NHM5;P31040;Q9BV57;P02792;Q15652;P29474;O75489;Q9NZC7;Q9H6Z9;O75164;Q9BYZ2;P49419;P15121;P10599;Q13363;Q9UHB4;P21912;Q06830;Q8TDZ2;Q9BU89;Q8NCN5;P00338;Q9BRX8;P31350;P16083}
- 23081 Pathogen[ P03363] interacts with 27 human partners: {Q16836;P29474;Q9BUP3;P49419;P31040;Q9UHB4;P40925;Q9NNW7;Q9H6Z9;Q9ULD0;Q96BT7;P56545;O75164;Q9BYZ2;Q15652;Q9BXP1;Q96Q83;P04406;Q9BV57;O00625;O14618;Q14739;Q13363;O14556;Q96A73;P02794;O95831}
- 23082 [Cluster 2099]GO:0043551+P biological\_process [name] regulation of phosphatidylinositol 3-kinase activity [def] "Any process that modulates the frequency, rate or extent of phosphatidylinositol 3-kinase activity, the catalysis of the transfer of a phosphate group, usually from ATP, to an inositol lipid at the 3' position of the inositol ring." [GOC
- 23083 Pathogen[ Q2Q067] interacts with 2 human partners: {Q8WYR1;P27986}
- 23084 Pathogen[ P0C214] interacts with 2 human partners: {Q8WYR1;P27986}
- 23085 Pathogen[ P03346] interacts with 2 human partners: {Q8WYR1;P27986}
- 23086 Pathogen[ Q85601] interacts with 2 human partners: {P27986;Q8WYR1}
- 23087 Pathogen[ P14079] interacts with 1 human partners: {Q8WYR1}
- 23088 Pathogen[ P03383] interacts with 2 human partners: {P27986;Q8WYR1}
- 23089 Pathogen[ P03410] interacts with 2 human partners: {P27986;Q8WYR1}
- 23090 Pathogen[ P14075] interacts with 2 human partners: {Q8WYR1;P27986}
- 23091 Pathogen[ P0C206] interacts with 2 human partners: {P27986;Q8WYR1}
- 23092 Pathogen[ P03363] interacts with 2 human partners: {Q8WYR1;P27986}



23093 [Cluster 2100]GO:0007405+P biological\_process [name] neuroblast proliferation [def] "The expansion of a neuroblast population by cell division. A neuroblast is any cell that will divide and give rise to a neuron." [GOC

23094 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9NXR1;P47928}

23095 Pathogen[ P0C214] interacts with 2 human partners:{P47928;Q9NXR1}

23096 Pathogen[ P03346] interacts with 4 human partners:{Q9HD90;Q9NXR1;Q9Y6R0;P47928}

23097 Pathogen[ Q85601] interacts with 2 human partners:{Q9NXR1;P47928}

23098 Pathogen[ P14079] interacts with 3 human partners:{Q8WU20;Q9NXR1;P47928}

23099 Pathogen[ P03383] interacts with 1 human partners:{P47928}

23100 Pathogen[ P03410] interacts with 3 human partners:{Q9NXR1;P47928;Q8WU20}

23101 Pathogen[ P14075] interacts with 1 human partners:{P47928}

23102 Pathogen[ P0C206] interacts with 3 human partners:{Q8WU20;Q9NXR1;P47928}

23103 Pathogen[ P03363] interacts with 3 human partners:{P47928;Q9NXR1;Q9Y6R0}

23104 [Cluster 2101]GO:0032232+P biological\_process [name] negative regulation of actin filament bundle assembly [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the assembly of actin filament bundles." [GOC

23105 Pathogen[ Q2Q067] interacts with 2 human partners:{O60260;Q13233}

23106 Pathogen[ P0C214] interacts with 2 human partners:{Q13233;O60260}

23107 Pathogen[ P03346] interacts with 2 human partners:{Q13233;O60260}

23108 Pathogen[ Q85601] interacts with 2 human partners:{O60260;Q13233}

23109 Pathogen[ P14079] interacts with 1 human partners:{O60260}

23110 Pathogen[ P03383] interacts with 2 human partners:{Q13233;O60260}

23111 Pathogen[ P03410] interacts with 2 human partners:{O60260;Q13233}

23112 Pathogen[ P14075] interacts with 2 human partners:{Q13233;O60260}

23113 Pathogen[ P0C206] interacts with 2 human partners:{Q13233;O60260}

23114 Pathogen[ P03363] interacts with 1 human partners:{Q13233}

23115 [Cluster 2102]GO:0048041+P biological\_process [name] focal adhesion assembly [def] "The aggregation and bonding together of a set of components to form a focal adhesion, a complex of intracellular signaling and structural proteins that provides a structural link between the internal actin cytoskeleton and the ECM, and also function as a locus of signal transduction activity." [GOC

23116 Pathogen[ Q2Q067] interacts with 3 human partners:{Q96IF1;Q15654;Q9BX66}

23117 Pathogen[ P0C214] interacts with 2 human partners:{Q9BX66;Q15654}

23118 Pathogen[ P03346] interacts with 3 human partners:{Q96IF1;Q9BX66;Q15654}

23119 Pathogen[ Q85601] interacts with 3 human partners:{Q9BX66;Q15654;Q96IF1}

23120 Pathogen[ P14079] interacts with 3 human partners:{Q96IF1;P49023;Q9BX66}

23121 Pathogen[ P03383] interacts with 1 human partners:{Q15654}

23122 Pathogen[ P03410] interacts with 3 human partners:{Q15654;Q96IF1;Q9BX66}

23123 Pathogen[ P14075] interacts with 1 human partners:{Q15654}

23124 Pathogen[ P0C206] interacts with 3 human partners:{Q96IF1;Q15654;Q9BX66}

23125 Pathogen[ P03363] interacts with 3 human partners:{Q15654;Q9BX66;Q96IF1}

23126 [Cluster 2103]GO:0061428+P

23127 Pathogen[ Q2Q067] interacts with 2 human partners:{P40337;Q9NWT6}

23128 Pathogen[ P0C214] interacts with 2 human partners:{P40337;Q9NWT6}

23129 Pathogen[ P03346] interacts with 2 human partners:{P40337;Q9NWT6}

23130 Pathogen[ Q85601] interacts with 2 human partners:{P40337;Q9NWT6}

23131 Pathogen[ P14079] interacts with 2 human partners:{P40337;Q9NWT6}

23132 Pathogen[ P03383] interacts with 2 human partners:{Q9NWT6;P40337}

23133 Pathogen[ P03410] interacts with 2 human partners:{Q9NWT6;P40337}

23134 Pathogen[ P14075] interacts with 2 human partners:{Q9NWT6;P40337}

23135 Pathogen[ P0C206] interacts with 2 human partners:{Q9NWT6;P40337}

23136 Pathogen[ P03363] interacts with 1 human partners:{P40337}

23137 [Cluster 2104]GO:0051899+P biological\_process [name] membrane depolarization [def] "The process in which membrane potential changes in the depolarizing direction from the resting potential, usually from negative to positive. For example, the initial depolarization during the rising phase of an action potential is in the direction from the negative resting potential towards the positive membrane potential that will be the peak of the action potential." [Wikipedia

23138 Pathogen[ Q2Q067] interacts with 1 human partners:{Q99497}

23139 Pathogen[ P0C214] interacts with 2 human partners:{Q99497;P05412}

23140 Pathogen[ P03346] interacts with 2 human partners:{P05412;Q99497}

23141 Pathogen[ Q85601] interacts with 2 human partners:{Q99497;P05412}

23142 Pathogen[ P14079] interacts with 2 human partners:{Q99497;P05412}

23143 Pathogen[ P03383] interacts with 1 human partners:{P05412}

23144 Pathogen[ P03410] interacts with 2 human partners:{Q99497;P05412}

23145 Pathogen[ P14075] interacts with 1 human partners:{P05412}

23146 Pathogen[ P0C206] interacts with 2 human partners:{P05412;Q99497}

23147 Pathogen[ P03363] interacts with 1 human partners:{P05412}

23148 [Cluster 2105]GO:0019932+P biological\_process [name] second-messenger-mediated signaling [def] "A series of molecular signals in which an ion or small molecule is formed or released into the cytosol, thereby helping relay the signal within the cell." [GOC

23149 Pathogen[ Q2Q067] interacts with 2 human partners:{P30153;P67775}

23150 Pathogen[ P0C214] interacts with 2 human partners:{P30153;P67775}

23151 Pathogen[ P03346] interacts with 2 human partners:{P67775;P30153}

23152 Pathogen[ Q85601] interacts with 2 human partners:{P30153;P67775}

23153 Pathogen[ P14079] interacts with 1 human partners:{P30153}  
23154 Pathogen[ P03383] interacts with 2 human partners:{P30153;P67775}  
23155 Pathogen[ P03410] interacts with 2 human partners:{P30153;P67775}  
23156 Pathogen[ P14075] interacts with 2 human partners:{P67775;P30153}  
23157 Pathogen[ P0C206] interacts with 2 human partners:{P30153;P67775}  
23158 Pathogen[ P03363] interacts with 2 human partners:{P30153;P67775}  
23159 [Cluster 2106]GO:0070375+P biological\_process [name] BMK cascade [def] "A cascade of protein kinase activities, culminating in the phosphorylation and activation of big MAP kinase (BMK1/ERK5), which is a type of mitogen-activated protein (MAP) kinase." [GOC  
23160 Pathogen[ Q2Q067] interacts with 1 human partners:{Q02078}  
23161 Pathogen[ P0C214] interacts with 1 human partners:{Q02078}  
23162 Pathogen[ P03346] interacts with 1 human partners:{Q02078}  
23163 Pathogen[ Q85601] interacts with 1 human partners:{Q02078}  
23164 Pathogen[ P14079] interacts with 2 human partners:{Q02078;Q13164}  
23165 Pathogen[ P03383] interacts with 1 human partners:{Q02078}  
23166 Pathogen[ P03410] interacts with 1 human partners:{Q02078}  
23167 Pathogen[ P14075] interacts with 1 human partners:{Q02078}  
23168 Pathogen[ P0C206] interacts with 1 human partners:{Q02078}  
23169 Pathogen[ P03363] interacts with 1 human partners:{Q02078}  
23170 [Cluster 2107]GO:0060048+P biological\_process [name] cardiac muscle contraction [def] "Muscle contraction of cardiac muscle tissue." [GOC  
23171 Pathogen[ Q2Q067] interacts with 3 human partners:{Q8WUF5;Q07955;Q99717}  
23172 Pathogen[ P0C214] interacts with 4 human partners:{Q8WUF5;Q07955;P19429;Q99717}  
23173 Pathogen[ P03346] interacts with 4 human partners:{Q99717;Q07955;P63316;Q8WUF5}  
23174 Pathogen[ Q85601] interacts with 3 human partners:{Q07955;Q99717;Q8WUF5}  
23175 Pathogen[ P14079] interacts with 5 human partners:{P19429;Q8WUF5;P68032;Q07955;O15273}  
23176 Pathogen[ P03383] interacts with 3 human partners:{Q07955;Q99717;Q8WUF5}  
23177 Pathogen[ P03410] interacts with 7 human partners:{P19429;Q99717;O15273;Q07955;P63316;Q8WUF5;Q16635}  
23178 Pathogen[ P14075] interacts with 3 human partners:{Q8WUF5;Q99717;Q07955}  
23179 Pathogen[ P0C206] interacts with 5 human partners:{Q8WUF5;Q07955;Q99717;P19429;P50461}  
23180 Pathogen[ P03363] interacts with 4 human partners:{Q8WUF5;Q07955;P19429;Q99717}  
23181 [Cluster 2108]GO:0007569+P biological\_process [name] cell aging [def] "Progression of the cell from its inception to the end of its lifespan." [GOC  
23182 Pathogen[ Q2Q067] interacts with 7 human partners:{Q99583;P06748;Q53EL6;Q53G26;P37198;P42771;Q96EY1}  
23183 Pathogen[ P0C214] interacts with 7 human partners:{P06748;Q53EL6;P37198;P42771;Q53G26;Q99583;Q96EY1}  
23184 Pathogen[ P03346] interacts with 10 human partners:{P06748;Q14149;P37198;P42771;P51587;P48059;Q53G26;Q99583;Q96EY1;Q53EL6}  
23185 Pathogen[ Q85601] interacts with 9 human partners:{Q53G26;Q14149;P42771;P06748;Q53EL6;P48059;Q99583;Q96EY1;P51587}  
23186 Pathogen[ P14079] interacts with 9 human partners:{P51587;Q14149;Q99583;P37198;P06748;P48059;Q96EY1;Q53EL6;P42771}  
23187 Pathogen[ P03383] interacts with 7 human partners:{Q53EL6;P06748;P42771;Q99583;P37198;Q96EY1;Q53G26}  
23188 Pathogen[ P03410] interacts with 9 human partners:{P42771;Q53G26;Q14149;P06748;P51587;Q99583;Q53EL6;P48059;Q96EY1}  
23189 Pathogen[ P14075] interacts with 7 human partners:{P42771;Q53G26;P37198;P06748;Q53EL6;Q99583;Q96EY1}  
23190 Pathogen[ P0C206] interacts with 9 human partners:{P51587;Q99583;Q53G26;P42771;Q14149;P48059;Q53EL6;P06748;Q96EY1}  
23191 Pathogen[ P03363] interacts with 7 human partners:{Q53EL6;P06748;Q53G26;P37198;Q96EY1;Q99583;P42771}  
23192 [Cluster 2109]GO:0007422+P biological\_process [name] peripheral nervous system development [def] "The process whose specific outcome is the progression of the peripheral nervous system over time, from its formation to the mature structure. The peripheral nervous system is one of the two major divisions of the nervous system. Nerves in the PNS connect the central nervous system (CNS) with sensory organs, other organs, muscles, blood vessels and glands." [GOC  
23193 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9Y4Z2;P56693;P11161}  
23194 Pathogen[ P0C214] interacts with 3 human partners:{P56693;Q99574;P11161}  
23195 Pathogen[ P03346] interacts with 7 human partners:{Q9Y4Z2;Q9NU63;P48443;P56693;P11161;Q99929;Q9UJU5}  
23196 Pathogen[ Q85601] interacts with 4 human partners:{Q9Y4Z2;P56693;P11161;Q9NU63}  
23197 Pathogen[ P14079] interacts with 4 human partners:{P48443;Q9NU63;P11161;P56693}  
23198 Pathogen[ P03383] interacts with 2 human partners:{P11161;P56693}  
23199 Pathogen[ P03410] interacts with 3 human partners:{P56693;P11161;Q9NU63}  
23200 Pathogen[ P14075] interacts with 2 human partners:{P11161;P56693}  
23201 Pathogen[ P0C206] interacts with 5 human partners:{P11161;Q9Y4Z2;P56693;Q9NU63;P48443}  
23202 Pathogen[ P03363] interacts with 5 human partners:{Q9Y4Z2;Q99929;P56693;Q9UJU5;P11161}  
23203 [Cluster 2110]GO:0006950+P biological\_process [name] response to stress [def] "Any

- process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a disturbance in organismal or cellular homeostasis, usually, but not necessarily, exogenous (e.g. temperature, humidity, ionizing radiation)." [GOC
- 23204 Pathogen[ Q2Q067] interacts with 56 human  
partners: {P01100;O15234;O95433;Q08209;O95257;Q6IE81;Q9BZQ8;Q99497;Q12988;O75807;Q9BQ  
S6;P15121;Q00613;Q16082;Q04206;P61604;Q9ULV5;P08238;Q9UJY1;P18850;Q99933;P07900;P067  
48;Q03933;P08107;P04792;Q9Y2A0;P31948;P11142;Q9UQL6;O43524;Q9UDY4;P24522;Q9UJM3;O755  
82;P40337;Q9ULX9;Q9BPZ7;P41567;P35869;P25685;O95232;Q96RU7;Q13144;P45984;Q8IUR6;O433  
18;P26651;O14558;O60870;Q9UBY9;Q15759;Q13501;Q9Y2A4;P14625;Q96A56}
- 23205 Pathogen[ P0C214] interacts with 67 human  
partners: {Q9BPZ7;P18850;Q9UDY4;O15234;Q58FG0;P08294;Q8N573;Q9BQS6;P14625;Q00613;P358  
69;P24522;Q58FF7;Q12988;Q9Y2A4;P06748;O75807;P01100;P34932;P61604;Q9UBY9;P04792;Q160  
82;Q9ULP0;Q9UJM3;Q58FG1;Q04206;Q99497;Q9Y2A0;Q5SWA1;P31948;O43318;O95232;Q03933;O952  
57;Q13501;P15121;O60870;Q99933;Q9BZQ8;Q13144;Q08209;P40337;Q9ULX9;P41567;Q58FF3;Q58F  
F6;O75582;P26651;Q9ULV5;Q8IUR6;Q6IE81;Q96RU7;P10909;Q15759;Q58FF8;O14558;P45984;Q96A  
56;Q14011;Q14568;P08107;Q9UJY1;O95433;Q9UQL6;P11142;P25685}
- 23206 Pathogen[ P03346] interacts with 66 human  
partners: {P08107;P41567;Q9Y2A0;O15234;P50135;P45984;Q8N573;Q16082;Q12988;P07900;P256  
85;P06748;P14625;Q00613;Q14011;Q9ULP0;Q03933;Q9BPZ7;P61604;Q96A56;P15121;Q9UJY1;Q042  
06;P11142;P31948;Q8IUR6;Q5SWA1;Q9ULX9;O95433;P18850;P51843;O60870;O95232;Q9UBY9;Q9BZ  
Q8;O75569;O75582;Q99497;Q6IE81;P40337;Q96RU7;Q9UHD1;Q15759;Q9BQS6;P45985;P34932;Q9UD  
Y4;O43318;O95257;P35869;O14558;Q08209;Q9Y2A4;P26651;Q9ULV5;Q13144;O43524;P08238;P011  
00;O75807;Q9UQL6;P04792;Q99933;P24522;Q13501;Q9UJM3}
- 23207 Pathogen[ Q85601] interacts with 60 human  
partners: {Q99497;O15234;P08107;Q9UHD1;Q8IUR6;Q9ULV5;Q9UQL6;Q58FF8;Q03933;Q9BPZ7;P403  
37;O95433;P61604;P24522;P31948;Q5SWA1;P25685;Q13144;Q00613;Q9BZQ8;Q08209;P26651;P011  
00;O60870;Q9UBY9;O95232;Q12988;Q99933;Q9Y2A4;Q04206;P11142;P08238;O95257;P18850;O755  
82;P06748;P15121;Q9UDY4;P07900;Q96A56;Q6IE81;Q96RU7;P41567;Q16082;Q15759;P45984;Q9UJ  
M3;P14625;P34932;P04792;P35869;Q58FF3;O43318;Q9BQS6;O14558;O75807;Q14568;Q9UJY1;Q9UL  
X9;Q13501}
- 23208 Pathogen[ P14079] interacts with 74 human  
partners: {Q9UQL6;Q96A56;O75324;Q8N573;Q9BQS6;P31948;P11142;P35869;Q5SWA1;O43422;P525  
64;Q9Y6A5;P41567;Q9UJM3;O75582;P50135;Q99497;Q9UDY4;Q9ULP0;O75807;Q12988;O95433;P109  
09;O75569;O60870;Q03933;P25685;Q6IE81;O14683;P61604;Q13144;P45984;P45983;P40337;Q006  
13;Q16644;Q9Y6X1;Q15759;P08238;Q99933;P08107;P45985;O14558;P24522;P07900;Q16082;Q9UJ  
Y1;Q9ULX9;P06748;Q13501;O75366;Q96RU7;P18850;P14625;Q9Y2A4;O75293;O95232;Q14011;Q150  
11;Q9Y2A0;Q9UHD1;P04792;Q9BPZ7;O95257;Q9ULV5;Q9UBY9;Q9BZQ8;P01100;O15273;Q71910;O152  
34;Q08209;P03886;Q8IUR6}
- 23209 Pathogen[ P03383] interacts with 51 human  
partners: {P08107;O15234;O75582;Q96A56;P06748;Q8IUR6;O95433;P40337;Q9UQL6;P41567;Q9BP  
Z7;Q9UJM3;P31948;P61604;Q9BQS6;P24522;P04792;Q5SWA1;P07900;Q9Y2A0;O43318;Q9BZQ8;Q131  
44;O14558;O60870;Q9ULV5;Q9UDY4;P14625;Q15759;Q00613;P11142;Q13501;P26651;Q99933;Q96R  
U7;Q16082;O95232;P01100;Q04206;P45984;Q9UJY1;Q9UBY9;O75807;P18850;Q6IE81;Q9Y2A4;P358  
69;Q9ULX9;P08238;O95257;Q03933}
- 23210 Pathogen[ P03410] interacts with 73 human  
partners: {Q9UDY4;Q99933;Q00613;Q04206;Q71910;O15234;O75293;Q99497;Q9BQS6;Q08209;P082  
38;P25685;P24522;O75582;P61604;Q9BPZ7;P14625;O60870;O75324;Q9UHD1;Q13501;P11142;P047  
92;P07900;Q9Y6A5;P06748;Q9UJY1;P26651;Q03933;P01100;O15273;O75569;Q9UQL6;P41567;O433  
18;Q9Y6X1;P03886;P45985;O14558;P08107;Q58FF3;Q16082;Q12988;Q9ULP0;Q9ULX9;Q5SWA1;O758  
07;Q14011;Q8IUR6;P31948;O95232;O43422;Q96RU7;P45984;Q96A56;Q15011;Q9BZQ8;Q9ULV5;O952  
57;O95433;Q9Y2A0;Q9BSN7;P50135;P18850;Q9UBY9;Q8N573;Q6IE81;O14683;Q9Y2A4;Q9UJM3;P403  
37;P10909;Q13144}
- 23211 Pathogen[ P14075] interacts with 52 human  
partners: {Q99933;P35869;O15234;Q9BQS6;O95232;Q9UBY9;Q00613;P11142;Q04206;Q15759;Q9Y2  
A4;O75582;P61604;P26651;Q03933;O95257;Q9Y2A0;Q9ULX9;O95433;P04792;Q5SWA1;Q16082;Q9UJ  
Y1;Q9UDY4;P08238;O60870;P07900;Q9BPZ7;Q6IE81;Q9ULV5;Q9BZQ8;Q9UJM3;O43318;O14558;O758  
07;P06748;Q96RU7;P01100;P24522;P08107;Q9UQL6;Q15011;Q13144;P41567;P40337;P14625;P319  
48;Q8IUR6;Q96A56;Q13501;P18850;P45984}
- 23212 Pathogen[ P0C206] interacts with 69 human  
partners: {O75293;Q9BZQ8;Q13501;Q8IUR6;Q12988;Q9UDY4;Q9Y2A0;P24522;P26651;Q9ULP0;O434  
22;P35869;P18850;O75582;Q99933;P45984;O75807;Q00613;O95232;P41567;P34932;Q03933;O608  
70;Q14011;O43318;P04792;Q99497;Q9BQS6;Q96A56;Q96RU7;Q13144;Q9UJY1;Q16082;Q9ULV5;P082  
38;O95257;Q58FF3;P07900;Q9Y6A5;Q15011;P01100;Q04206;P10909;O15234;P08107;Q9BPZ7;Q5SW  
A1;P45985;Q71910;Q9UJM3;Q6IE81;Q9UHD1;Q8N573;P25685;Q08209;P15121;P06748;P31948;O145  
58;Q15759;P11142;P50135;Q9Y2A4;P61604;Q9ULX9;P40337;Q9UBY9;P14625;Q9UQL6}
- 23213 Pathogen[ P03363] interacts with 53 human  
partners: {Q6IE81;Q9UBY9;Q16082;P54652;P07900;Q04206;Q9BZQ8;Q9ULP0;O95232;Q03933;P501  
35;O95257;P18850;Q12988;O14558;Q9UDY4;Q9UJY1;Q9UQL6;O43422;O43318;Q9Y2A4;P40337;P067  
48;P35869;P41567;O43524;Q96A56;P08107;P34932;Q9BQS6;O95433;O60870;P24522;P31948;Q140  
11;O75807;Q9Y2A0;P26651;Q9ULV5;P25685;Q8IUR6;Q00613;Q13144;Q9UJM3;Q9ULX9;P08238;Q999  
33;P04792;P11142;P61604;O75569;P01100;O15234}
- 23214 [Cluster 2111]GO:0035196+P biological\_process [name] production of miRNAs involved in  
gene silencing by miRNA [def] "Cleavage of stem-loop RNA precursors into microRNAs  
(miRNAs), a class of small RNAs that primarily silence genes by blocking the translation  
of mRNA transcripts into protein." [GOC

23215 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8TAD8}  
23216 Pathogen[ P0C214] interacts with 1 human partners:{Q8TAD8}  
23217 Pathogen[ P03346] interacts with 1 human partners:{Q8TAD8}  
23218 Pathogen[ Q85601] interacts with 1 human partners:{Q8TAD8}  
23219 Pathogen[ P14079] interacts with 1 human partners:{Q8TAD8}  
23220 Pathogen[ P03383] interacts with 1 human partners:{Q8TAD8}  
23221 Pathogen[ P03410] interacts with 1 human partners:{Q8TAD8}  
23222 Pathogen[ P14075] interacts with 1 human partners:{Q8TAD8}  
23223 Pathogen[ P0C206] interacts with 1 human partners:{Q8TAD8}  
23224 Pathogen[ P03363] interacts with 1 human partners:{Q8TAD8}  
23225 [Cluster 2112]GO:0007030+P biological\_process [name] Golgi organization [def] "A process that is carried out at the cellular level which results in the assembly, arrangement of constituent parts, or disassembly of the Golgi apparatus." [GOC  
23226 Pathogen[ Q2Q067] interacts with 13 human partners:{Q9H2G9;Q9Y6D6;Q8IWE5;Q53FT3;Q9H8Y8;Q8NF91;Q14746;Q8TAT6;Q7RTS9;Q96CV9;P60953;Q8WTW3;Q9H9E3}  
23227 Pathogen[ P0C214] interacts with 15 human partners:{Q14746;Q9H9E3;P60953;Q8IWE5;Q53FT3;Q8TAT6;Q9H8Y8;Q8NF91;P49257;Q7RTS9;Q9H2G9;Q9BQQ3;Q96CV9;Q9Y6D6;Q8WTW3}  
23228 Pathogen[ P03346] interacts with 20 human partners:{Q14746;Q9H2G9;Q7RTS1;P49257;Q14789;Q8WTW3;P60953;Q9Y6D6;Q96CV9;Q9H9E3;Q7RTS9;Q9H8Y8;Q9BQQ3;Q8TAT6;P49755;Q8NF91;Q15363;Q9BVK6;Q53FT3;Q8IWE5}  
23229 Pathogen[ Q85601] interacts with 15 human partners:{Q14746;Q96CV9;Q53FT3;Q9BQQ3;Q8WTW3;Q8IWE5;Q9H9E3;P49257;Q7RTS9;Q9H2G9;P60953;Q9Y6D6;Q9H8Y8;Q8NF91;Q8TAT6}  
23230 Pathogen[ P14079] interacts with 20 human partners:{Q14789;Q14746;P49257;Q9BVK6;Q15363;Q9H2G9;Q9H8Y8;Q8WTW3;Q53FT3;P49755;Q7RTS1;Q9Y6D6;Q8TAT6;Q9BQQ3;Q7RTS9;O15260;Q8IWE5;Q9H9E3;Q8NF91;Q96CV9}  
23231 Pathogen[ P03383] interacts with 12 human partners:{Q14746;Q9H9E3;P60953;Q9H2G9;Q9Y6D6;Q8WTW3;Q8TAT6;Q7RTS9;Q53FT3;Q96CV9;Q9H8Y8;Q8IWE5}  
23232 Pathogen[ P03410] interacts with 20 human partners:{Q9H2G9;Q7RTS9;Q8IWE5;Q9BQQ3;P49257;Q7RTS1;Q53FT3;Q9BVK6;Q9H8Y8;Q96CV9;Q14789;Q15363;Q9Y6D6;Q8WTW3;P60953;Q14746;O15260;Q8TAT6;Q9H9E3;Q8NF91}  
23233 Pathogen[ P14075] interacts with 13 human partners:{P60953;Q8TAT6;Q14746;Q9H2G9;Q53FT3;Q9H9E3;Q9Y6D6;Q8IWE5;Q7RTS9;Q9H8Y8;Q14789;Q96CV9;Q8WTW3}  
23234 Pathogen[ P0C206] interacts with 20 human partners:{Q14789;Q9BVK6;Q7RTS9;Q8IWE5;Q9H9E3;Q9Y6D6;Q96CV9;Q9H8Y8;P49755;Q14746;Q8TAT6;Q8NF91;Q8WTW3;P49257;P60953;Q9H2G9;O15260;Q15363;Q9BQQ3;Q53FT3}  
23235 Pathogen[ P03363] interacts with 15 human partners:{Q53FT3;Q7RTS1;Q14789;Q8NF91;Q96CV9;Q7RTS9;Q9H9E3;Q8IWE5;Q14746;Q8TAT6;Q8WTW3;Q9H8Y8;Q9H2G9;Q9Y6D6;P60953}  
23236 [Cluster 2113]GO:0001938+P biological\_process [name] positive regulation of endothelial cell proliferation [def] "Any process that activates or increases the rate or extent of endothelial cell proliferation." [GOC  
23237 Pathogen[ Q2Q067] interacts with 4 human partners:{P27540;O14786;Q9HCU8;P22736}  
23238 Pathogen[ P0C214] interacts with 4 human partners:{O14786;Q9HCU8;P05412;P27540}  
23239 Pathogen[ P03346] interacts with 5 human partners:{P05412;Q9HCU8;P27540;P22736;O14786}  
23240 Pathogen[ Q85601] interacts with 5 human partners:{P27540;O14786;P22736;P05412;Q9HCU8}  
23241 Pathogen[ P14079] interacts with 6 human partners:{Q86V25;P13498;P22736;Q9HCU8;P27540;P05412}  
23242 Pathogen[ P03383] interacts with 3 human partners:{Q9HCU8;P27540;P05412}  
23243 Pathogen[ P03410] interacts with 6 human partners:{O14786;P27540;P22736;P05412;Q86V25;Q9HCU8}  
23244 Pathogen[ P14075] interacts with 3 human partners:{P05412;P27540;Q9HCU8}  
23245 Pathogen[ P0C206] interacts with 6 human partners:{Q9HCU8;P05412;P22736;O14786;P27540;Q86V25}  
23246 Pathogen[ P03363] interacts with 6 human partners:{P27540;O14786;Q8N302;Q9HCU8;Q86V25;P05412}  
23247 [Cluster 2114]GO:0060803+P biological\_process [name] BMP signaling pathway involved in mesodermal cell fate specification [def] "A series of molecular signals generated as a consequence of any member of the BMP (bone morphogenetic protein) family binding to a cell surface receptor and ultimately resulting in an cell becoming specified to adopt a mesodermal fate." [GOC  
23248 Pathogen[ Q2Q067] interacts with 1 human partners:{000321}  
23249 Pathogen[ P0C214] interacts with 1 human partners:{000321}  
23250 Pathogen[ P03346] interacts with 1 human partners:{000321}  
23251 Pathogen[ Q85601] interacts with 1 human partners:{000321}  
23252 Pathogen[ P14079] interacts with 1 human partners:{000321}  
23253 Pathogen[ P03383] interacts with 1 human partners:{000321}  
23254 Pathogen[ P03410] interacts with 1 human partners:{000321}  
23255 Pathogen[ P14075] interacts with 1 human partners:{000321}  
23256 Pathogen[ P0C206] interacts with 1 human partners:{000321}

23257 Pathogen[ P03363] interacts with 1 human partners:{000321}  
23258 [Cluster 2115]GO:0045324+P biological\_process [name] late endosome to vacuole transport [def] "The directed movement of substances from late endosomes to the vacuole. In yeast, after transport to the prevacuolar compartment, endocytic content is delivered to the late endosome and on to the vacuole. This pathway is analogous to endosome to lysosome transport." [PMID  
23259 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8WUX9}  
23260 Pathogen[ P0C214] interacts with 1 human partners:{Q8WUX9}  
23261 Pathogen[ P03346] interacts with 1 human partners:{Q8WUX9}  
23262 Pathogen[ Q85601] interacts with 1 human partners:{Q8WUX9}  
23263 Pathogen[ P14079] interacts with 1 human partners:{Q8WUX9}  
23264 Pathogen[ P03383] interacts with 1 human partners:{Q8WUX9}  
23265 Pathogen[ P03410] interacts with 1 human partners:{Q8WUX9}  
23266 Pathogen[ P14075] interacts with 1 human partners:{Q8WUX9}  
23267 Pathogen[ P0C206] interacts with 1 human partners:{Q8WUX9}  
23268 Pathogen[ P03363] interacts with 1 human partners:{Q8WUX9}  
23269 [Cluster 2116]GO:0071777+P biological\_process [name] positive regulation of cell cycle cytokinesis [def] "Any process that activates or increases the frequency, rate or extent of the division of the cytoplasm of a cell, and its separation into two daughter cells, that occurs in the context of cell cycle progression." [GOC  
23270 Pathogen[ Q2Q067] interacts with 7 human partners:{Q99741;Q1MSJ5;Q99569;Q02241;P60953;P30305;P61586}  
23271 Pathogen[ P0C214] interacts with 6 human partners:{Q1MSJ5;Q02241;P61586;P60953;P30305;Q99741}  
23272 Pathogen[ P03346] interacts with 8 human partners:{Q99569;P60953;P30305;Q02241;Q9H8V3;Q99741;Q1MSJ5;P61586}  
23273 Pathogen[ Q85601] interacts with 7 human partners:{Q99569;Q02241;P30305;Q1MSJ5;P61586;P60953;Q99741}  
23274 Pathogen[ P14079] interacts with 7 human partners:{Q02241;Q1MSJ5;Q99741;Q99569;P61586;Q9H8V3;P30305}  
23275 Pathogen[ P03383] interacts with 5 human partners:{Q1MSJ5;Q02241;P60953;P61586;Q99741}  
23276 Pathogen[ P03410] interacts with 8 human partners:{P61586;P60953;Q1MSJ5;Q9H8V3;P30305;Q02241;Q99569;Q99741}  
23277 Pathogen[ P14075] interacts with 5 human partners:{P60953;Q02241;P61586;Q99741;Q1MSJ5}  
23278 Pathogen[ P0C206] interacts with 8 human partners:{P30305;Q99741;Q02241;P61586;Q99569;Q9H8V3;P60953;Q1MSJ5}  
23279 Pathogen[ P03363] interacts with 5 human partners:{Q1MSJ5;Q02241;Q99569;Q99741;P60953}  
23280 [Cluster 2117]GO:0048026+P biological\_process [name] positive regulation of nuclear mRNA splicing, via spliceosome [def] "Any process that activates or increases the rate or extent of mRNA splicing via a spliceosomal mechanism." [GOC  
23281 Pathogen[ Q2Q067] interacts with 1 human partners:{P38159}  
23282 Pathogen[ P0C214] interacts with 1 human partners:{P38159}  
23283 Pathogen[ P03346] interacts with 2 human partners:{P38159;P62995}  
23284 Pathogen[ Q85601] interacts with 1 human partners:{P38159}  
23285 Pathogen[ P14079] interacts with 1 human partners:{P38159}  
23286 Pathogen[ P03383] interacts with 1 human partners:{P38159}  
23287 Pathogen[ P03410] interacts with 1 human partners:{P38159}  
23288 Pathogen[ P14075] interacts with 1 human partners:{P38159}  
23289 Pathogen[ P0C206] interacts with 1 human partners:{P38159}  
23290 Pathogen[ P03363] interacts with 3 human partners:{P38159;Q5SZQ8;P62995}  
23291 [Cluster 2118]GO:0032755+P biological\_process [name] positive regulation of interleukin-6 production [def] "Any process that activates or increases the frequency, rate, or extent of interleukin-6 production." [GOC  
23292 Pathogen[ Q2Q067] interacts with 2 human partners:{Q8IUC6;Q53H80}  
23293 Pathogen[ P0C214] interacts with 3 human partners:{Q8IUC6;Q53H80;P10809}  
23294 Pathogen[ P03346] interacts with 2 human partners:{Q53H80;Q8IUC6}  
23295 Pathogen[ Q85601] interacts with 2 human partners:{Q8IUC6;Q53H80}  
23296 Pathogen[ P14079] interacts with 5 human partners:{Q53H80;Q8IUC6;Q95760;Q9Y239;Q99836}  
23297 Pathogen[ P03383] interacts with 2 human partners:{Q8IUC6;Q53H80}  
23298 Pathogen[ P03410] interacts with 4 human partners:{Q9Y239;Q95760;Q53H80;Q8IUC6}  
23299 Pathogen[ P14075] interacts with 2 human partners:{Q53H80;Q8IUC6}  
23300 Pathogen[ P0C206] interacts with 2 human partners:{Q8IUC6;Q53H80}  
23301 Pathogen[ P03363] interacts with 1 human partners:{Q53H80}  
23302 [Cluster 2119]GO:0009566+P biological\_process [name] fertilization [def] "The union of gametes of opposite sexes during the process of sexual reproduction to form a zygote. It involves the fusion of the gametic nuclei (karyogamy) and cytoplasm (plasmogamy)." [GOC  
23303 Pathogen[ Q2Q067] interacts with 6 human partners:{A6NGQ2;P59047;Q8IYF3;Q9NRG9;P16989;Q9BX26}  
23304 Pathogen[ P0C214] interacts with 6 human partners:{P16989;Q9BXT5;Q9NRG9;Q9BX26;Q8IYF3;P59047}  
23305 Pathogen[ P03346] interacts with 8 human

23306 partners: {P59047;Q9BXT5;Q9BX26;Q9NRG9;Q8IYF3;P16989;A6NGQ2;Q9GZV8}  
Pathogen[ Q85601] interacts with 6 human

23307 partners: {Q9BXT5;Q8IYF3;Q9NRG9;Q9BX26;P16989;P59047}  
Pathogen[ P14079] interacts with 10 human

23308 partners: {Q9BXT5;Q7Z7C7;A6NGQ2;P16989;Q9BX26;Q9GZV8;Q96JY0;Q9NRG9;P59047;Q8IYF3}  
Pathogen[ P03383] interacts with 5 human

23309 partners: {P16989;Q8IYF3;A6NGQ2;Q9NRG9;Q9BX26}  
Pathogen[ P03410] interacts with 9 human

23310 partners: {P16989;A6NGQ2;P59047;Q9GZV8;Q9BX26;Q9BXT5;Q7Z7C7;Q8IYF3;Q9NRG9}  
Pathogen[ P14075] interacts with 7 human

23311 partners: {P16989;Q9BX26;Q9BXT5;A6NGQ2;Q9NRG9;Q8IYF3;Q7Z7C7}  
Pathogen[ P0C206] interacts with 9 human

23312 partners: {A6NGQ2;Q9NRG9;Q9BXT5;Q9BX26;Q7Z7C7;P16989;P59047;Q8IYF3;Q9GZV8}  
Pathogen[ P03363] interacts with 7 human

23313 partners: {A6NGQ2;Q9NRG9;Q96JY0;P59047;P16989;Q9BXT5;Q9BX26}  
[Cluster 2120]GO:0002479+P biological\_process [name] antigen processing and presentation of exogenous peptide antigen via MHC class I, TAP-dependent [def] "The process in which an antigen-presenting cell expresses a peptide antigen of exogenous origin on its cell surface in association with an MHC class I protein complex following intracellular transport via a TAP (transporter associated with antigen processing) pathway. The peptide is typically a fragment of a larger exogenous protein which has been degraded within the cell and is dependent on TAP transport from the cytosol to ER for association with the MHC class I molecule. Class I here refers to classical class I molecules." [GOC

23314 Pathogen[ Q2Q067] interacts with 41 human  
partners: {Q99460;O75832;P48556;P40306;P55036;O00231;O00233;P51665;P28072;A5LHX3;Q13200;P25787;Q06323;P28065;O14818;P27797;Q14997;P60900;Q9UL46;P61289;P28062;Q9UNM6;P25788;Q92530;P25786;Q16401;O00232;P28074;P25789;POCG47;P20618;POCG48;P28070;P28066;Q99436;Q8TAA3;P62987;O43242;P49721;P49720;P62979}

23315 Pathogen[ P0C214] interacts with 43 human  
partners: {Q14997;P51665;P25789;P55036;P28062;A5LHX3;P28065;O14818;O43242;P48556;P40306;Q13200;O00232;Q99460;P28066;O75832;P49720;P28074;POCG48;Q9UL46;P25788;Q9UNM6;O00231;Q06323;P25786;P28072;Q8TAA3;P62987;Q99436;P27797;POCG47;P25787;P35998;P60900;O00233;P62979;Q92530;Q15008;P28070;P20618;P49721;Q16401;P17980}

23316 Pathogen[ P03346] interacts with 41 human  
partners: {P25787;P28070;P25789;P55036;Q99460;Q9UL46;P62987;P28072;P25788;P28074;P49721;O14818;Q99436;POCG48;Q16401;A5LHX3;P28062;P20618;O00232;O75832;O00233;P49720;P28065;P60900;P25786;O00231;P61289;P62979;P27797;P28066;Q9UNM6;Q8TAA3;POCG47;Q14997;Q13200;P48556;P51665;Q06323;Q92530;O43242;P40306}

23317 Pathogen[ Q85601] interacts with 37 human  
partners: {P28066;Q9UNM6;P60900;P55036;P25787;P61289;P25788;O75832;P27797;POCG48;P25789;O00233;P20618;P40306;P49720;P28062;P49721;P25786;P28072;Q13200;P28065;P62979;Q99436;P28070;Q8TAA3;Q9UL46;Q99460;O00231;POCG47;P48556;P28074;Q92530;P62987;A5LHX3;Q06323;O14818;Q16401}

23318 Pathogen[ P14079] interacts with 46 human  
partners: {P28065;Q99436;P62333;P48556;P60468;POCG48;P40306;P13498;P55036;P28074;O00232;P49720;O00487;P25787;O75832;A5LHX3;P62979;O00233;P35998;P61289;P62987;P51665;P20618;Q8TAA3;Q14997;P28062;P60900;Q9UNM6;Q99460;O14818;P49721;P60059;Q92530;Q06323;P62191;Q15008;P43686;O43242;P25788;O00231;P28066;Q9UL46;POCG47;Q16401;P17980;P28072}

23319 Pathogen[ P03383] interacts with 37 human  
partners: {P55036;P62987;P25789;P60900;P40306;O00233;P49721;Q06323;Q14997;P20618;O75832;Q9UL46;Q9UNM6;P25786;Q99460;P28072;Q13200;P28065;P28066;Q16401;P62979;O00231;POCG47;POCG48;P28074;Q92530;P49720;Q8TAA3;P61289;P28062;P48556;O14818;Q99436;P28070;P25787;P27797;P25788}

23320 Pathogen[ P03410] interacts with 45 human  
partners: {P28070;P55036;POCG48;P60468;P25786;P60059;Q15008;Q16401;P60900;Q14997;P35998;Q99460;O00233;O00232;Q8TAA3;P48556;P49721;A5LHX3;P62979;Q99436;P40306;Q06323;Q13200;P25787;P28062;P51665;O14818;O00231;Q9UNM6;P25789;P49720;P62987;P28072;P25788;P28066;P28065;O43242;POCG47;P17980;O75832;P20618;Q9UL46;P28074;P61289;P27797}

23321 Pathogen[ P14075] interacts with 36 human  
partners: {P55036;P25788;P28066;Q06323;O75832;Q8TAA3;P60900;O00233;Q9UL46;P49720;Q13200;P48556;Q16401;P28070;P49721;O00231;Q92530;POCG48;P62979;P28062;P28074;P28065;P27797;P25786;O14818;P62987;P28072;Q14997;POCG47;P25787;P20618;Q9UNM6;P61289;P40306;Q99436;P25789}

23322 Pathogen[ P0C206] interacts with 40 human  
partners: {P61289;Q99436;P28062;Q9UNM6;POCG48;O75832;P27797;P40306;P28065;Q14997;P55036;P25786;P25788;P25787;Q06323;P49720;O00232;P60900;O43242;A5LHX3;P25789;P20618;Q13200;Q8TAA3;P28070;Q99460;P62979;P28066;O14818;POCG47;P28072;P28074;Q92530;P49721;P62987;Q9UL46;O00233;P48556;Q16401;O00231}

23323 Pathogen[ P03363] interacts with 4 human partners: {Q92530;P61289;P27797;P62987}

23324 [Cluster 2121]GO:0008064+P biological\_process [name] regulation of actin polymerization or depolymerization [def] "Any process that modulates the frequency, rate or extent of the assembly or disassembly of actin filaments by the addition or removal of actin monomers from a filament." [GOC

23325 Pathogen[ Q2Q067] interacts with 2 human partners: {P35080;O14604}

23326 Pathogen[ P0C214] interacts with 2 human partners: {P35080;O14604}

23327 Pathogen[ P03346] interacts with 2 human partners: {P35080;O14604}

23328 Pathogen[ Q85601] interacts with 2 human partners: {P35080;O14604}

23329 Pathogen[ P14079] interacts with 2 human partners: {O14604;P35080}

23330 Pathogen[ P03383] interacts with 2 human partners: {P35080;O14604}

23331 Pathogen[ P03410] interacts with 2 human partners: {P35080;O14604}

23332 Pathogen[ P14075] interacts with 2 human partners: {O14604;P35080}

23333 Pathogen[ P0C206] interacts with 2 human partners: {O14604;P35080}

23334 Pathogen[ P03363] interacts with 2 human partners: {P35080;O14604}

23335 [Cluster 2122]GO:0031110+P biological\_process [name] regulation of microtubule polymerization or depolymerization [def] "Any process that modulates the frequency, rate or extent of microtubule polymerization or depolymerization by the addition or removal of tubulin heterodimers from a microtubule." [GOC

23336 Pathogen[ Q2Q067] interacts with 4 human partners: {O75122;Q8IX90;Q96BD8;Q8WVK7}

23337 Pathogen[ P0C214] interacts with 4 human partners: {O75122;Q96BD8;Q8IX90;Q8WVK7}

23338 Pathogen[ P03346] interacts with 4 human partners: {O75122;Q8IX90;Q96BD8;Q8WVK7}

23339 Pathogen[ Q85601] interacts with 4 human partners: {O75122;Q96BD8;Q8IX90;Q8WVK7}

23340 Pathogen[ P14079] interacts with 4 human partners: {Q8IX90;Q8WVK7;Q96BD8;O75122}

23341 Pathogen[ P03383] interacts with 3 human partners: {Q96BD8;Q8WVK7;Q8IX90}

23342 Pathogen[ P03410] interacts with 4 human partners: {Q8IX90;Q8WVK7;Q96BD8;O75122}

23343 Pathogen[ P14075] interacts with 3 human partners: {Q8WVK7;Q96BD8;Q8IX90}

23344 Pathogen[ P0C206] interacts with 4 human partners: {Q8IX90;O75122;Q96BD8;Q8WVK7}

23345 Pathogen[ P03363] interacts with 3 human partners: {Q96BD8;Q8WVK7;Q8IX90}

23346 [Cluster 2123]GO:0003407+P biological\_process [name] neural retina development [def] "The progression of the neural retina over time from its initial formation to the mature structure. The neural retina is the part of the retina that contains neurons and photoreceptor cells." [GOC

23347 Pathogen[ Q2Q067] interacts with 4 human partners: {O96019;P51532;P42575;Q6STE5}

23348 Pathogen[ P0C214] interacts with 4 human partners: {Q6STE5;O96019;P42575;P51532}

23349 Pathogen[ P03346] interacts with 4 human partners: {P51532;P42575;O96019;Q6STE5}

23350 Pathogen[ Q85601] interacts with 4 human partners: {Q6STE5;O96019;P51532;P42575}

23351 Pathogen[ P14079] interacts with 3 human partners: {Q6STE5;P51532;P42575}

23352 Pathogen[ P03383] interacts with 3 human partners: {O96019;Q6STE5;P51532}

23353 Pathogen[ P03410] interacts with 4 human partners: {O96019;P42575;P51532;Q6STE5}

23354 Pathogen[ P14075] interacts with 3 human partners: {P51532;O96019;Q6STE5}

23355 Pathogen[ P0C206] interacts with 4 human partners: {P51532;Q6STE5;O96019;P42575}

23356 Pathogen[ P03363] interacts with 3 human partners: {Q6STE5;P51532;O96019}

23357 [Cluster 2124]GO:0006886+P biological\_process [name] intracellular protein transport [def] "The directed movement of proteins in a cell, including the movement of proteins between specific compartments or structures within a cell, such as organelles of a eukaryotic cell." [GOC

23358 Pathogen[ Q2Q067] interacts with 98 human partners: {Q92783;Q14974;Q9UI26;O94973;Q9Y6Q5;O00410;Q99747;Q10567;P56377;O75340;Q96Q U8;O43747;O95782;O95391;Q92572;O60784;P55735;Q9H2T7;Q8WXE9;P53675;P62826;O95295;Q9H1 H9;Q9P299;Q9BRJ2;Q9UJY4;Q9UJY5;O94829;Q8IV36;O43752;O14662;P83436;Q8WUH2;P06748;Q9HC H5;P48444;O00189;Q96P70;Q92973;O95198;P63010;Q96PC3;Q9BZE9;O75886;P61923;Q8NFW9;O14980;Q15388;P53677;Q9UBF2;O14787;Q9H9C1;Q8TEX9;Q14746;Q92624;Q00610;P61966;Q154 37;P55060;P53992;O95486;O75843;Q96JB2;Q96AP0;O94855;Q02410;Q9Y2T2;Q9H0R1;Q9BXS5;Q9UI A9;Q9HAV4;P54920;O15397;O95373;P53618;O43615;Q04917;P09497;O60763;O14925;Q9P0U1;Q9UL Z2;O95487;O14964;O75558;Q9BQE4;P35606;O43592;Q9Y678;P09496;Q9P2W9;P49754;Q15436;O756 74;Q9NZ52;Q13367;P41214}

23359 Pathogen[ P0C214] interacts with 97 human partners: {O94829;Q96CW1;Q8TEX9;Q9UI26;Q8NFW9;P61923;P55735;Q14746;P49754;Q9UIA9;O147 87;Q9P299;P55060;Q96P70;Q99747;Q15388;O95198;Q92624;P53992;P59780;Q9UJY5;Q04917;O952 95;P06748;Q9UM54;Q9Y2T2;O00189;Q13367;P53618;Q8IV36;P35606;P48444;P83436;O14964;Q9HC H5;Q9HAV4;O75886;P54920;Q9Y6Q2;O75340;Q9H0R1;Q15436;O75843;Q96Q U8;Q9BZE9;P63010;Q105 67;O14925;Q92572;P53675;O14980;Q9UBF2;O95487;Q9UJY4;P53677;P56377;Q15437;O43615;O435 92;Q96PC3;Q9NZ52;O43752;Q9ULZ2;O60763;O60784;P62826;O43747;O94973;Q9Y6Q5;P09497;Q024 10;Q92973;Q8WXE9;P61966;P09496;Q14974;O95782;Q9P0U1;Q9H2T7;O75558;Q9H9C1;Q92783;O953 91;O75674;Q9BQE4;P53680;Q9Y678;Q96JB2;Q8WUH2;O95373;Q9BXS5;O95486;O15397;Q9BRJ2;Q9P2 W9;O94855;P41214}

23360 Pathogen[ P03346] interacts with 123 human partners: {Q13596;Q8TEX9;Q9UI26;O14925;Q96AP0;P61966;P55735;Q96P70;O43752;Q14746;O153 97;Q9H115;Q9HAV4;Q9P2W9;Q9Y6B7;Q9NS69;Q9H2T7;P06748;Q96JB2;Q15036;P63010;O14787;Q9P2 53;O95295;O43747;O95714;Q92572;P53680;P49754;O95391;Q9ULZ2;P56377;Q96Q U8;O43615;Q8IV 36;Q9P0U1;P59780;O75886;Q9BXS5;Q9H0R1;O00410;Q9Y678;O95782;P53618;Q9HCH5;Q9H1H9;Q131 90;Q9P299;Q9H173;O00189;P55060;Q8WUH2;P09496;O60784;Q02410;Q04917;Q9BZE9;Q9UIA9;P628 26;O94855;Q8IYJ3;Q8TDW5;Q9NRS6;O43592;Q10567;O75843;O14980;P48444;Q9Y6Q2;Q92973;Q154 36;Q8WXE9;O75340;Q9UPM8;Q9UNH7;Q15437;O95373;Q96CW1;Q9UBF2;Q96PC3;Q9UJY4;Q9Y5X2;P549 20;O95198;P53675;P61923;O60763;O95486;Q8NFW9;P83436;P09497;Q92783;Q13367;Q9BRJ2;Q9H9 C1;Q15388;O14964;O95487;O14617;O60749;Q9UJY5;P49755;O75558;O75674;Q9Y6Q5;O94829;P412 14;P35606;Q9Y2J0;O94973;Q92624;Q9NZ52;O14662;P53367;Q00610;P53992;Q15363;Q92834;P536 77;Q99747;Q86Y82;Q9Y2T2;Q14974}

23361 Pathogen[ Q85601] interacts with 109 human partners: {Q13367;Q13596;Q9UI26;O14925;P54920;Q14746;Q8NFW9;P53675;Q9ULZ2;O75843;Q9HA V4;Q9UIA9;P48444;Q00610;Q9Y2T2;P09496;Q15388;Q9UJY4;Q96CW1;O95487;Q9P253;Q96P70;O952 95;O60763;O95714;O95391;Q15036;Q9BXS5;P56377;Q9P299;Q8IV36;P62826;Q9HCH5;Q8WXE9;Q96J

B2;O43747;P61923;P83436;Q9H1H9;Q9UPM8;Q9NP61;Q92834;P49754;Q8WUH2;Q10567;Q9P2W9;O75886;Q9UJY5;Q15436;Q9BZE9;Q04917;Q9H9C1;Q14974;O94829;O43752;Q92624;Q9Y6Q2;O95373;Q15437;P55060;Q92973;Q9UBF2;Q96QU8;Q9Y678;Q8TEX9;P55735;P53680;Q9BRJ2;P06748;Q92783;O14787;O14964;O43615;O75340;O75558;O14980;O95486;O94973;Q96PC3;P53618;Q9Y6B7;P09497;P53677;O15397;Q02410;P63010;Q9H2T7;Q92572;Q9UM54;P61966;P59780;Q9Y6Q5;P41214;O94855;P35606;Q9NZ52;O43592;Q9UNH7;O14662;P53992;Q9H0R1;O60784;O00189;O95198;O00410;Q99747;Q9BQE4;O75674;O95782}

23362 Pathogen[ P14079] interacts with 126 human partners: {O95373;O75886;Q96CW1;O43615;Q14746;Q9UNH7;P61923;Q9Y6Q5;Q15036;P61966;Q6ZVM7;Q9BXS5;Q8NEV8;Q00610;Q9UJY4;Q9BQE4;P83436;Q96P70;O95487;P30040;Q9H9C1;Q9UJY5;P05408;P35606;Q8IYJ3;Q9P0U1;Q9UPM8;Q02410;Q10567;O43592;Q9BZE9;Q9BRJ2;Q92834;P56377;Q9Y2T2;Q9Y678;Q92783;Q9Y6B7;P59780;O94855;O00189;Q9HCH5;O75674;Q92624;O60895;Q9NRS6;P53992;Q99747;Q9UM54;O60784;Q04917;O14925;Q9NS69;Q96JX3;Q9H269;P33947;Q92572;Q9NZ52;Q15363;Q15388;O75843;O95198;O75558;P24390;Q9ULZ2;O95782;Q8NFW9;Q9Y5X2;O94829;O00410;P49755;Q9P299;Q8IV36;O75340;Q9UI26;Q14974;P55060;Q92973;Q9UBF2;Q9H1H9;O60749;Q9P253;P09497;P60059;P63010;O15397;P53677;O95295;P06748;O14662;Q9H115;Q13596;O94973;P48444;Q8TEX9;Q99595;Q13367;Q9H0R1;Q8WXE9;O43747;O43752;O14787;Q9UIA9;P55735;P53675;Q9HAV4;Q5SRD1;P49754;Q96JB2;O14617;P62826;O95486;Q96PC3;P41214;Q9H2T7;Q9P2W9;Q96QU8;Q8WUH2;P51571;P53680;P54920;O95391;Q96AP0;P09496;O60763;Q9Y6Q2}

23363 Pathogen[ P03383] interacts with 79 human partners: {Q96CW1;Q9UI26;Q9UJY4;P56377;Q14746;Q9UIA9;P06748;Q00610;O15397;Q92572;P55735;O94829;P53618;P83436;Q9Y678;Q9BRJ2;P54920;O95487;O95295;Q8WXE9;Q10567;Q96P70;O14925;O43615;Q8IV36;Q9H9C1;O75886;Q9BZE9;Q96JB2;O95486;Q9HCH5;P53675;P49754;O00189;P53677;Q15436;Q9H1H9;P62826;P55060;Q99747;O75558;Q9H2T7;O75843;Q9Y2T2;Q92973;Q9BQE4;P63010;O14980;O43747;Q15437;Q9HAV4;O94855;Q9UJY5;Q15388;Q9ULZ2;P41214;O95782;Q9UBF2;O14787;Q14974;Q9P0U1;O60784;Q92783;Q13367;P53992;Q96QU8;O43752;Q02410;O95373;O43592;Q9BXS5;P09497;Q92624;O94973;O14964;O95391;O00410;Q8WUH2;Q9NZ52}

23364 Pathogen[ P03410] interacts with 136 human partners: {Q00610;P09496;Q9Y6Q5;Q5SRD1;Q9HCH5;Q9UPM8;O00203;O95782;Q96PC3;Q96CW1;Q9BZE9;Q6ZVM7;Q14974;Q9BXS5;Q13190;Q15388;P53680;Q96JB2;Q9H115;O60896;Q9Y2J0;P60059;Q13596;Q96AP0;O60895;O94855;Q8TDW5;Q9NZ52;P53992;Q9H1H9;Q9P299;O75674;P55060;O43747;Q04917;Q9ULZ2;O75843;O60749;Q8IV36;Q96QU8;P48444;Q96P70;P53367;Q10567;P30040;P35606;Q92572;P33947;Q9P2W9;O14662;Q92783;Q9NS69;Q8WUH2;P06748;Q9P253;Q8TEX9;O14617;Q9BQE4;Q9UJY5;P41214;Q9Y6B7;Q02410;Q8NFW9;Q8WXE9;Q9UMX2;O95295;Q9UNH7;O14925;Q99595;Q9UM54;Q92624;Q15436;O60763;Q8NEV8;Q15437;P62826;Q96JX3;Q92973;O14787;Q9Y2T2;Q9NP61;Q9Y678;Q9BRJ2;O94829;O95198;O43615;P09497;O95486;Q15363;P05408;Q15036;O60784;Q92834;Q8IYJ3;P53618;P61923;Q9H173;Q9NRS6;P49754;Q9H0R1;P53677;O75558;P24390;P63010;Q9H2T7;Q14746;O43752;Q9P0U1;Q9H9C1;O75340;O00410;P59780;Q9UI26;P83436;P55735;P53675;Q13367;Q9HAV4;O43592;P61966;Q9UIA9;Q9H269;O94973;P56377;O15397;Q99747;Q9Y6Q2;O75886;Q9UJY4;O14980;O95391;O95373;O95487;Q9Y5X2;Q9UBF2;P54920}

23365 Pathogen[ P14075] interacts with 81 human partners: {Q9UI26;Q9P0U1;Q9BQE4;O14925;P09497;Q9BRJ2;Q9UJY4;Q02410;Q14746;Q96JB2;P09496;Q9H1H9;O94973;Q96CW1;O75558;O75886;Q96P70;O95295;Q9H2T7;O14787;O43752;O95391;P53675;Q15388;Q9Y2T2;Q9UBF2;Q8IV36;Q92973;Q92783;Q99747;Q9NZ52;P54920;Q9HCH5;O15397;Q9H9C1;Q9HAV4;Q96AP0;P53992;P55735;Q92624;O43592;O14980;O00189;O95487;O14964;P49754;Q15437;O95373;P53618;P41214;Q8WXE9;O95782;O00410;P62826;O43747;Q9UIA9;P06748;Q15436;Q92572;O94829;P63010;Q96QU8;Q9ULZ2;Q9Y678;O75843;P56377;Q8WUH2;O94855;Q9BXS5;Q14974;O95486;Q10567;P83436;P55060;Q9NS69;Q00610;Q9UJY5;Q13367;O43615;O60784;Q9BZE9}

23366 Pathogen[ P0C206] interacts with 121 human partners: {O75340;O14964;O14662;P53680;P63010;Q9Y678;Q15437;P53675;Q9Y6B7;Q9UM54;P83436;O94973;Q9Y6Q5;Q96AP0;Q92572;O43592;O60784;Q9UNH7;Q9Y6Q2;P53618;Q9P299;O43747;O94855;Q10567;P54920;Q9NRS6;Q9Y2J0;O43752;Q9H0R1;P49754;Q8NFW9;P61966;Q8WXE9;Q14974;Q96QU8;Q96P70;P49755;Q9UJY4;Q00610;O15397;Q96JB2;P55735;O94829;Q9Y2T2;Q14746;Q13596;P62826;Q04917;O75558;Q92783;Q9H1H9;Q92973;Q15036;O00410;Q9BZE9;Q9HAV4;P09496;Q5SRD1;Q9NP61;Q92624;Q9BRJ2;P59780;P53677;O14787;O43615;O60749;Q8IV36;Q9UPM8;Q9BQE4;Q9BXS5;O95486;Q9NS69;Q9NZ52;P09497;O95373;P35606;P33947;Q9UJY5;P24390;Q8TEX9;O95487;O60763;Q96CW1;Q9P0U1;P48444;O14925;Q8WUH2;Q15388;Q9H2T7;O95295;O95782;P55060;Q99747;Q9UBF2;O14617;Q9P253;O95198;Q9ULZ2;O75843;P41214;P06748;Q9UIA9;P53992;Q15363;O75886;Q9HC5;O95391;Q96PC3;O75674;O00189;Q9H9C1;Q92834;O95714;Q13367;Q9P2W9;P56377;Q9UI26;P61923;Q02410;Q15436}

23367 Pathogen[ P03363] interacts with 99 human partners: {O60763;P49754;O14787;Q92973;Q9Y2T2;Q9UNH7;Q8WXE9;Q9H9C1;Q13367;O95391;O43747;Q9HAV4;Q9UJY4;O75340;P48444;O75886;Q92783;O14980;Q8NFW9;O00410;Q9Y678;P53677;Q9H2T7;O60784;Q15388;O14925;Q9NZ52;Q96P70;P54920;O75558;Q15436;P83436;Q00610;Q9Y6B7;O95486;P53618;Q9BXS5;P06748;Q9P299;Q96AP0;O94973;P61923;O60749;Q14746;Q9P2W9;Q92572;Q9BRJ2;O43615;Q96QU8;Q8IV36;Q9ULZ2;Q9H0R1;Q02410;Q9P0U1;Q8TEX9;P63010;O75674;Q92624;O95198;Q14974;Q9BZE9;O00189;O14964;O95295;O95782;O94829;P41214;P35606;O95714;Q8WUH2;O14662;Q9UBF2;Q92834;P53992;O75843;Q9UI26;O95487;O95373;Q13596;Q04917;Q9H1H9;Q9HCH5;P55060;Q9NS69;P62826;O43592;Q9UJY5;P09497;O43752;P53675;P55735;Q99747;O94855;Q10567;Q9UIA9;O15397;Q96CW1;Q9UPM8;Q96JB2}

23368 [Cluster 2125]GO:0006839+P biological\_process [name] mitochondrial transport [def] "Transport of substances into, out of or within a mitochondrion." [GOC]

23369 Pathogen[ Q2Q067] interacts with 3 human partners: {P07900;Q96EK5;Q9UBX3}

23370 Pathogen[ P0C214] interacts with 1 human partners: {Q9UBX3}

23371 Pathogen[ P03346] interacts with 3 human partners: {P07900;Q9UBX3;Q96EK5}

23372 Pathogen[ Q85601] interacts with 2 human partners: {Q9UBX3;P07900}



23373 Pathogen[ P14079] interacts with 3 human partners:{075431;Q96EK5;P07900}  
23374 Pathogen[ P03383] interacts with 2 human partners:{P07900;Q96EK5}  
23375 Pathogen[ P03410] interacts with 4 human partners:{Q96EK5;P07900;Q9UBX3;075431}  
23376 Pathogen[ P14075] interacts with 2 human partners:{P07900;Q96EK5}  
23377 Pathogen[ P0C206] interacts with 3 human partners:{Q9UBX3;P07900;Q96EK5}  
23378 Pathogen[ P03363] interacts with 2 human partners:{P07900;Q96EK5}  
23379 [Cluster 2126]GO:0045137+P biological\_process [name] development of primary sexual characteristics [def] "The process whose specific outcome is the progression of the primary sexual characteristics over time, from their formation to the mature structures. The primary sexual characteristics are the testes in males and the ovaries in females and they develop in response to sex hormone secretion." [GOC  
23380 Pathogen[ Q2Q067] interacts with 1 human partners:{Q14781}  
23381 Pathogen[ P0C214] interacts with 1 human partners:{Q14781}  
23382 Pathogen[ P03346] interacts with 1 human partners:{Q14781}  
23383 Pathogen[ Q85601] interacts with 1 human partners:{Q14781}  
23384 Pathogen[ P14079] interacts with 1 human partners:{Q14781}  
23385 Pathogen[ P03383] interacts with 1 human partners:{Q14781}  
23386 Pathogen[ P03410] interacts with 1 human partners:{Q14781}  
23387 Pathogen[ P14075] interacts with 1 human partners:{Q14781}  
23388 Pathogen[ P0C206] interacts with 1 human partners:{Q14781}  
23389 Pathogen[ P03363] interacts with 1 human partners:{Q14781}  
23390 [Cluster 2127]GO:0009628+P biological\_process [name] response to abiotic stimulus [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an abiotic (non-living) stimulus." [GOC  
23391 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UNS1}  
23392 Pathogen[ P0C214] interacts with 1 human partners:{Q9UNS1}  
23393 Pathogen[ P03346] interacts with 2 human partners:{P07992;Q9UNS1}  
23394 Pathogen[ Q85601] interacts with 1 human partners:{Q9UNS1}  
23395 Pathogen[ P14079] interacts with 3 human partners:{075324;Q9UNS1;P07992}  
23396 Pathogen[ P03383] interacts with 1 human partners:{Q9UNS1}  
23397 Pathogen[ P03410] interacts with 3 human partners:{P07992;075324;Q9UNS1}  
23398 Pathogen[ P14075] interacts with 1 human partners:{Q9UNS1}  
23399 Pathogen[ P0C206] interacts with 2 human partners:{Q9UNS1;P07992}  
23400 Pathogen[ P03363] interacts with 1 human partners:{Q9UNS1}  
23401 [Cluster 2128]GO:0043516+P biological\_process [name] regulation of DNA damage response, signal transduction by p53 class mediator [def] "Any process that modulates the frequency, rate or extent of the cascade of processes induced by the cell cycle regulator phosphoprotein p53, or an equivalent protein, in response to the detection of DNA damage." [GOC  
23402 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NRG4}  
23403 Pathogen[ P0C214] interacts with 2 human partners:{Q9NQR1;Q9NRG4}  
23404 Pathogen[ P03346] interacts with 2 human partners:{Q9NQR1;Q9NRG4}  
23405 Pathogen[ Q85601] interacts with 2 human partners:{Q9NQR1;Q9NRG4}  
23406 Pathogen[ P14079] interacts with 2 human partners:{Q9NRG4;Q9NQR1}  
23407 Pathogen[ P03383] interacts with 2 human partners:{Q9NRG4;Q9NQR1}  
23408 Pathogen[ P03410] interacts with 2 human partners:{Q9NQR1;Q9NRG4}  
23409 Pathogen[ P14075] interacts with 2 human partners:{Q9NQR1;Q9NRG4}  
23410 Pathogen[ P0C206] interacts with 2 human partners:{Q9NRG4;Q9NQR1}  
23411 Pathogen[ P03363] interacts with 2 human partners:{Q9NRG4;Q9NQR1}  
23412 [Cluster 2129]GO:0035278+P biological\_process [name] negative regulation of translation involved in gene silencing by miRNA [def] "The process in which microRNAs (miRNAs) block the translation of target mRNAs into proteins. Once incorporated into a RNA-induced silencing complex (RISC), a miRNA will typically repress translation if the miRNA imperfectly base-pairs with the 3' untranslated regions of target mRNAs." [PMID  
23413 Pathogen[ Q2Q067] interacts with 4 human partners:{Q9HCK5;Q9H9G7;Q9UKV8;Q9UL18}  
23414 Pathogen[ P0C214] interacts with 5 human partners:{Q9H9G7;Q8NDV7;Q9UKV8;Q9HCK5;Q9UL18}  
23415 Pathogen[ P03346] interacts with 5 human partners:{Q9H9G7;Q9UL18;Q9BWF3;Q9HCK5;Q9UKV8}  
23416 Pathogen[ Q85601] interacts with 4 human partners:{Q9HCK5;Q9UL18;Q9H9G7;Q9UKV8}  
23417 Pathogen[ P14079] interacts with 5 human partners:{Q9UKV8;Q9UL18;Q9H9G7;Q9HCK5;Q8NDV7}  
23418 Pathogen[ P03383] interacts with 4 human partners:{Q9UL18;Q9HCK5;Q9UKV8;Q9H9G7}  
23419 Pathogen[ P03410] interacts with 5 human partners:{Q9UKV8;Q9UL18;Q8NDV7;Q9H9G7;Q9HCK5}  
23420 Pathogen[ P14075] interacts with 4 human partners:{Q9HCK5;Q9H9G7;Q9UKV8;Q9UL18}  
23421 Pathogen[ P0C206] interacts with 5 human partners:{Q9HCK5;Q9UKV8;Q8NDV7;Q9H9G7;Q9UL18}  
23422 Pathogen[ P03363] interacts with 6 human partners:{Q9H9G7;Q9HCK5;Q9UKV8;Q9BWF3;Q8NDV7;Q9UL18}  
23423 [Cluster 2130]GO:0045210+P biological\_process [name] FasL biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of fas ligand (FasL or CD95L), an antigen originally found to be expressed on the cell surface of activated human T-lymphocytes and B-lymphocytes and a variety of malignant human lymphoid cell lines." [http

23424 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8WV24}

23425 Pathogen[ P0C214] interacts with 1 human partners:{Q8WV24}

23426 Pathogen[ P03346] interacts with 1 human partners:{Q8WV24}

23427 Pathogen[ Q85601] interacts with 1 human partners:{Q8WV24}

23428 Pathogen[ P14079] interacts with 1 human partners:{Q8WV24}

23429 Pathogen[ P03383] interacts with 1 human partners:{Q8WV24}

23430 Pathogen[ P03410] interacts with 1 human partners:{Q8WV24}

23431 Pathogen[ P14075] interacts with 1 human partners:{Q8WV24}

23432 Pathogen[ P0C206] interacts with 1 human partners:{Q8WV24}

23433 Pathogen[ P03363] interacts with 1 human partners:{Q8WV24}

23434 [Cluster 2131]GO:0014037+P biological\_process [name] Schwann cell differentiation  
[def] "The process in which a relatively unspecialized cell acquires the specialized features of a Schwann cell. Schwann cells are found in the peripheral nervous system, where they insulate neurons and axons, and regulate the environment in which neurons function." [GOC

23435 Pathogen[ Q2Q067] interacts with 3 human partners:{P11161;Q15742;Q13506}

23436 Pathogen[ P0C214] interacts with 3 human partners:{Q15742;Q13506;P11161}

23437 Pathogen[ P03346] interacts with 3 human partners:{Q15742;Q13506;P11161}

23438 Pathogen[ Q85601] interacts with 3 human partners:{Q13506;Q15742;P11161}

23439 Pathogen[ P14079] interacts with 3 human partners:{Q13506;Q15742;P11161}

23440 Pathogen[ P03383] interacts with 3 human partners:{Q15742;Q13506;P11161}

23441 Pathogen[ P03410] interacts with 3 human partners:{Q15742;P11161;Q13506}

23442 Pathogen[ P14075] interacts with 3 human partners:{Q13506;P11161;Q15742}

23443 Pathogen[ P0C206] interacts with 3 human partners:{P11161;Q15742;Q13506}

23444 Pathogen[ P03363] interacts with 3 human partners:{Q13506;Q15742;P11161}

23445 [Cluster 2132]GO:0002525+P biological\_process [name] acute inflammatory response to non-antigenic stimulus [def] "An acute inflammatory response to non-antigenic stimuli such as heat or physical trauma." [GOC

23446 Pathogen[ Q2Q067] interacts with 1 human partners:{P55212}

23447 Pathogen[ P0C214] interacts with 1 human partners:{P55212}

23448 Pathogen[ P03346] interacts with 1 human partners:{P55212}

23449 Pathogen[ Q85601] interacts with 1 human partners:{P55212}

23450 Pathogen[ P14079] interacts with 1 human partners:{P55212}

23451 Pathogen[ P03383] interacts with 1 human partners:{P55212}

23452 Pathogen[ P03410] interacts with 1 human partners:{P55212}

23453 Pathogen[ P14075] interacts with 1 human partners:{P55212}

23454 Pathogen[ P0C206] interacts with 1 human partners:{P55212}

23455 Pathogen[ P03363] interacts with 1 human partners:{P55212}

23456 [Cluster 2133]GO:0071167+P biological\_process [name] ribonucleoprotein complex import into nucleus [def] "The directed movement of a ribonucleoprotein complex from the cytoplasm to the nucleus." [GOC

23457 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96RS0}

23458 Pathogen[ P0C214] interacts with 1 human partners:{Q96RS0}

23459 Pathogen[ P03346] interacts with 1 human partners:{Q96RS0}

23460 Pathogen[ Q85601] interacts with 1 human partners:{Q96RS0}

23461 Pathogen[ P14079] interacts with 1 human partners:{Q96RS0}

23462 Pathogen[ P03383] interacts with 1 human partners:{Q96RS0}

23463 Pathogen[ P03410] interacts with 1 human partners:{Q96RS0}

23464 Pathogen[ P14075] interacts with 1 human partners:{Q96RS0}

23465 Pathogen[ P0C206] interacts with 1 human partners:{Q96RS0}

23466 Pathogen[ P03363] interacts with 1 human partners:{Q96RS0}

23467 [Cluster 2134]GO:2000660+P biological\_process [name] negative regulation of interleukin-1-mediated signaling pathway [def] "Any process that stops, prevents or reduces the frequency, rate or extent of interleukin-1-mediated signaling pathway." [GOC

23468 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8TD23}

23469 Pathogen[ P0C214] interacts with 1 human partners:{Q8TD23}

23470 Pathogen[ P03346] interacts with 1 human partners:{Q8TD23}

23471 Pathogen[ Q85601] interacts with 1 human partners:{Q8TD23}

23472 Pathogen[ P14079] interacts with 1 human partners:{Q8TD23}

23473 Pathogen[ P03383] interacts with 1 human partners:{Q8TD23}

23474 Pathogen[ P03410] interacts with 1 human partners:{Q8TD23}

23475 Pathogen[ P14075] interacts with 1 human partners:{Q8TD23}

23476 Pathogen[ P0C206] interacts with 1 human partners:{Q8TD23}

23477 Pathogen[ P03363] interacts with 1 human partners:{Q8TD23}

23478 [Cluster 2135]GO:0046889+P biological\_process [name] positive regulation of lipid biosynthetic process [def] "Any process that activates or increases the frequency, rate or extent of the chemical reactions and pathways resulting in the formation of lipids." [GOC

23479 Pathogen[ Q2Q067] interacts with 3 human partners:{P31749;Q9NP71;Q9BX66}

23480 Pathogen[ P0C214] interacts with 4 human partners:{Q9BX66;Q9NP71;P16220;P31749}

23481 Pathogen[ P03346] interacts with 5 human partners:{P16220;Q9BX66;Q9NP71;P31749;O60519}

23482 Pathogen[ Q85601] interacts with 4 human partners:{P31749;Q9BX66;Q9NP71;P16220}

23483 Pathogen[ P14079] interacts with 2 human partners:{Q9BX66;Q9NP71}

23484 Pathogen[ P03383] interacts with 3 human partners:{P16220;P31749;Q9NP71}

23485 Pathogen[ P03410] interacts with 4 human partners:{P31749;Q9NP71;P16220;Q9BX66}

23486 Pathogen[ P14075] interacts with 3 human partners:{Q9NP71;P31749;P16220}  
23487 Pathogen[ POC206] interacts with 4 human partners:{P31749;Q9NP71;P16220;Q9BX66}  
23488 Pathogen[ P03363] interacts with 4 human partners:{Q9BX66;P16220;P31749;Q9NP71}  
23489 [Cluster 2136]GO:0032980+P biological\_process [name] keratinocyte activation [def] "A change in the morphology or behavior of a keratinocyte resulting from exposure to an activating factor such as a cellular or soluble ligand. Upon activation, keratinocytes become migratory and hyperproliferative, and produce growth factors and cytokines." [GOC  
23490 Pathogen[ Q2Q067] interacts with 1 human partners:{P35908}  
23491 Pathogen[ POC214] interacts with 1 human partners:{P35908}  
23492 Pathogen[ P03346] interacts with 1 human partners:{P35908}  
23493 Pathogen[ Q85601] interacts with 1 human partners:{P35908}  
23494 Pathogen[ P14079] interacts with 1 human partners:{P35908}  
23495 Pathogen[ P03383] interacts with 1 human partners:{P35908}  
23496 Pathogen[ P03410] interacts with 1 human partners:{P35908}  
23497 Pathogen[ P14075] interacts with 1 human partners:{P35908}  
23498 Pathogen[ POC206] interacts with 1 human partners:{P35908}  
23499 Pathogen[ P03363] interacts with 1 human partners:{P35908}  
23500 [Cluster 2137]GO:2000210+P biological\_process [name] positive regulation of anoikis [def] "Any process that activates or increases the frequency, rate or extent of anoikis." [GOC  
23501 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9Y3E5;Q9HCU9}  
23502 Pathogen[ POC214] interacts with 2 human partners:{Q9Y3E5;Q9HCU9}  
23503 Pathogen[ P03346] interacts with 2 human partners:{Q9Y3E5;Q9HCU9}  
23504 Pathogen[ Q85601] interacts with 2 human partners:{Q9Y3E5;Q9HCU9}  
23505 Pathogen[ P14079] interacts with 2 human partners:{Q9Y3E5;Q9HCU9}  
23506 Pathogen[ P03383] interacts with 2 human partners:{Q9Y3E5;Q9HCU9}  
23507 Pathogen[ P03410] interacts with 1 human partners:{Q9Y3E5}  
23508 Pathogen[ P14075] interacts with 2 human partners:{Q9Y3E5;Q9HCU9}  
23509 Pathogen[ POC206] interacts with 2 human partners:{Q9HCU9;Q9Y3E5}  
23510 Pathogen[ P03363] interacts with 2 human partners:{Q9HCU9;Q9Y3E5}  
23511 [Cluster 2138]GO:0060231+P biological\_process [name] mesenchymal to epithelial transition [def] "A transition where a mesenchymal cell establishes apical/basolateral polarity, forms intercellular adhesive junctions, synthesizes basement membrane components and becomes an epithelial cell." [GOC  
23512 Pathogen[ Q2Q067] interacts with 2 human partners:{Q99966;P80723}  
23513 Pathogen[ POC214] interacts with 2 human partners:{Q99966;P80723}  
23514 Pathogen[ P03346] interacts with 2 human partners:{Q99966;P80723}  
23515 Pathogen[ Q85601] interacts with 2 human partners:{Q99966;P80723}  
23516 Pathogen[ P14079] interacts with 2 human partners:{Q99966;P80723}  
23517 Pathogen[ P03383] interacts with 1 human partners:{P80723}  
23518 Pathogen[ P03410] interacts with 2 human partners:{P80723;Q99966}  
23519 Pathogen[ P14075] interacts with 1 human partners:{P80723}  
23520 Pathogen[ POC206] interacts with 2 human partners:{P80723;Q99966}  
23521 Pathogen[ P03363] interacts with 1 human partners:{P80723}  
23522 [Cluster 2139]GO:0007160+P biological\_process [name] cell-matrix adhesion [def] "The binding of a cell to the extracellular matrix via adhesion molecules." [GOC  
23523 Pathogen[ Q2Q067] interacts with 7 human partners:{O75334;P11831;Q9Y5J6;O14713;P63000;Q9BX66;P61586}  
23524 Pathogen[ POC214] interacts with 8 human partners:{P63000;P31249;P61586;Q9BX66;P11831;O75334;Q9Y5J6;O14713}  
23525 Pathogen[ P03346] interacts with 10 human partners:{P31249;P11831;Q9BX66;Q9Y5J6;O14713;A6NDV4;O75334;P63000;Q13136;P61586}  
23526 Pathogen[ Q85601] interacts with 9 human partners:{P11831;O14713;Q9BX66;Q9Y5J6;P63000;P61586;O75334;P31249;Q13136}  
23527 Pathogen[ P14079] interacts with 8 human partners:{A6NDV4;Q13136;O75334;P61586;P31249;O14713;P49023;Q9BX66}  
23528 Pathogen[ P03383] interacts with 7 human partners:{P11831;O14713;P63000;P31249;Q9Y5J6;P61586;O75334}  
23529 Pathogen[ P03410] interacts with 10 human partners:{P11831;P63000;O75334;O14713;P31249;A6NDV4;Q13136;P61586;Q9Y5J6;Q9BX66}  
23530 Pathogen[ P14075] interacts with 7 human partners:{P11831;O14713;P31249;P61586;P63000;Q9Y5J6;O75334}  
23531 Pathogen[ POC206] interacts with 10 human partners:{Q9Y5J6;O75334;O14713;A6NDV4;P61586;P63000;Q9BX66;P11831;P31249;Q13136}  
23532 Pathogen[ P03363] interacts with 7 human partners:{Q9BX66;O14713;P63000;P31249;O75334;P11831;Q13136}  
23533 [Cluster 2140]GO:0060749+P biological\_process [name] mammary gland alveolus development [def] "The progression of the mammary gland alveolus over time, from its formation to its mature state. The mammary gland alveolus is a sac-like structure that is found in the mature gland." [GOC  
23534 Pathogen[ Q2Q067] interacts with 4 human partners:{P24385;P20719;Q99623;O15111}  
23535 Pathogen[ POC214] interacts with 3 human partners:{O15111;Q99623;P24385}  
23536 Pathogen[ P03346] interacts with 4 human partners:{O15111;P24385;P20719;Q99623}  
23537 Pathogen[ Q85601] interacts with 3 human partners:{P24385;O15111;Q99623}  
23538 Pathogen[ P14079] interacts with 1 human partners:{Q99623}  
23539 Pathogen[ P03383] interacts with 3 human partners:{O15111;P24385;Q99623}

23540 Pathogen[ P03410] interacts with 3 human partners:{O15111;P24385;Q99623}  
23541 Pathogen[ P14075] interacts with 3 human partners:{O15111;Q99623;P24385}  
23542 Pathogen[ P0C206] interacts with 4 human partners:{Q99623;O15111;P20719;P24385}  
23543 Pathogen[ P03363] interacts with 4 human partners:{Q99623;O15111;P20719;P24385}  
23544 [Cluster 2141]GO:0033211+P biological\_process [name] adiponectin-mediated signaling pathway [def] "A series of molecular signals generated as a consequence of adiponectin binding to a cell surface receptor." [GOC  
23545 Pathogen[ Q2Q067] interacts with 1 human partners:{P67870}  
23546 Pathogen[ P0C214] interacts with 1 human partners:{P67870}  
23547 Pathogen[ P03346] interacts with 1 human partners:{P67870}  
23548 Pathogen[ Q85601] interacts with 1 human partners:{P67870}  
23549 Pathogen[ P14079] interacts with 1 human partners:{P67870}  
23550 Pathogen[ P03383] interacts with 1 human partners:{P67870}  
23551 Pathogen[ P03410] interacts with 1 human partners:{P67870}  
23552 Pathogen[ P14075] interacts with 1 human partners:{P67870}  
23553 Pathogen[ P0C206] interacts with 1 human partners:{P67870}  
23554 Pathogen[ P03363] interacts with 1 human partners:{P67870}  
23555 [Cluster 2142]GO:0006360+P biological\_process [name] transcription from RNA polymerase I promoter [def] "The synthesis of RNA from a DNA template by RNA polymerase I (RNAP I), originating at an RNAP I promoter." [GOC  
23556 Pathogen[ Q2Q067] interacts with 21 human partners:{Q95602;Q15573;P52434;Q13889;P32780;Q6NZI2;Q92759;Q9H9Y6;P51948;Q92831;P50613;Q15572;P53803;Q53T94;P17480;Q15361;Q9NYV6;Q9Y2S0;Q13888;O15160;P51946}  
23557 Pathogen[ P0C214] interacts with 20 human partners:{P51946;Q15573;Q9H9Y6;P53803;Q15361;P50613;Q9Y2S0;Q6NZI2;P51948;Q15572;P17480;Q9NYV6;P32780;O15160;Q92831;O95602;Q13888;P52434;Q53T94;Q92759}  
23558 Pathogen[ P03346] interacts with 20 human partners:{P52434;Q15573;Q13888;P53803;Q9H9Y6;Q92831;Q6NZI2;Q53T94;Q13889;P17480;Q15361;P51946;O15160;Q92759;O95602;Q9NYV6;P51948;P32780;Q9Y2S0;Q15572}  
23559 Pathogen[ Q85601] interacts with 21 human partners:{P51946;P17480;O95602;Q13888;Q15573;P53803;Q9Y2S0;Q92831;P51948;Q9H9Y6;Q15572;Q53T94;Q92759;P32780;P50613;Q9NYV6;Q6NZI2;P52434;Q15361;P19447;O15160}  
23560 Pathogen[ P14079] interacts with 21 human partners:{Q9Y2S0;Q15573;Q9NYV6;P51946;P52434;Q13889;P53803;Q15572;P50613;Q13888;P17480;O15160;Q92759;P32780;Q6NZI2;O95602;Q15361;Q53T94;P19447;Q9H9Y6;P51948}  
23561 Pathogen[ P03383] interacts with 18 human partners:{P53803;Q92831;O95602;Q9NYV6;P51948;Q15572;Q6NZI2;Q13888;Q9H9Y6;P52434;Q15361;P50613;P51946;Q92759;Q15573;P17480;P32780;Q53T94}  
23562 Pathogen[ P03410] interacts with 22 human partners:{Q92831;Q6NZI2;Q15572;Q13889;P51946;P50613;Q9NYV6;Q15573;O95602;P53803;P19447;Q9Y2S0;P51948;O15160;Q13888;P52434;Q53T94;Q15361;P32780;Q92759;Q9H9Y6;P17480}  
23563 Pathogen[ P14075] interacts with 19 human partners:{P17480;Q15572;Q92759;Q9NYV6;Q92831;Q53T94;P50613;Q6NZI2;Q13889;Q15573;Q9H9Y6;P51946;P32780;O95602;Q15361;P52434;P51948;P53803;Q13888}  
23564 Pathogen[ P0C206] interacts with 22 human partners:{Q53T94;Q15361;O95602;Q15572;Q92831;P19447;P53803;Q13888;P50613;Q9Y2S0;Q6NZI2;Q92759;Q15573;P32780;Q13889;Q9H9Y6;Q9NYV6;P17480;P52434;O15160;P51946;P51948}  
23565 Pathogen[ P03363] interacts with 18 human partners:{Q9H9Y6;Q92831;Q13888;P32780;Q92759;P51946;O95602;Q53T94;P17480;Q9NYV6;Q6NZI2;Q15361;Q15573;P53803;Q15572;P52434;Q9Y2S0;O15160}  
23566 [Cluster 2143]GO:0019048+P biological\_process [name] virus-host interaction [def] "Interactions, directly with the host cell macromolecular machinery, to allow virus replication." [ISBN  
23567 Pathogen[ Q2Q067] interacts with 179 human partners:{Q14974;O14734;O43463;Q8TAF3;P17544;Q6VMQ6;Q96J02;O95639;Q86U42;P52948;Q71F23;P40306;Q14258;Q93034;O00410;Q93009;P20226;P63172;P49790;O15519;Q9BUP3;Q14160;P06400;Q7Z5K2;Q9Y4B6;P40763;Q96LA8;P62258;Q7KZF4;Q12986;P62826;Q99816;Q9BRP4;O95295;Q6VY07;P28072;Q15326;Q9NPG3;P08729;Q92985;Q13435;P19388;Q15046;Q04206;P11387;O60238;Q13547;P63167;O60506;Q6UUV9;Q9HB58;Q9UBU9;P49450;P06748;Q9UER7;Q15542;Q6ZRS2;Q7L5N1;Q96T58;P52657;P51610;Q14457;P63279;Q13158;Q16531;P08047;Q8NDT2;Q14790;Q92973;Q14240;O60563;O75531;P28065;P54725;O14818;Q15629;P08727;Q7KZ85;O15304;P11142;P61978;Q9UKL0;Q07021;Q12959;Q9Y297;Q9UKC9;Q8WUM4;O14980;P30307;P05787;Q9Y6Y0;Q86V81;Q92831;Q14653;Q96T37;Q9NXV2;Q9Y6K9;P28062;O75843;Q9H2J4;Q8TAE8;P25788;O00268;Q96PU5;Q13616;Q92830;Q5TCQ9;Q92993;O00505;Q9BXS5;Q6UUV7;O75475;Q15369;O75164;P09914;Q13363;Q9NWF9;P28749;Q9C035;O95373;P28074;P53618;P25789;P52630;O60885;P25963;Q13619;Q12983;Q969H0;P52292;Q9BYX4;P20618;P17096;Q12824;P29083;Q13409;O60583;O43765;P27986;Q05086;P28070;Q92793;Q01826;P14324;Q04637;P21675;Q99436;P06730;P45973;P08670;Q9UGR2;P49721;P13051;P23497;P49720;O60870;Q13765;P61586;Q53ET0;Q00987;P05783;Q9HC16;Q86VP3;P05388;Q66K89;P52294;P42224;P60842;Q86X55;Q13617;Q15056;P62937;P62877;Q9P1T7;P49715;Q9Y224;Q00403;Q9H6F5;Q14999}  
23568 Pathogen[ P0C214] interacts with 184 human partners:{Q05086;Q14457;Q92993;O00268;Q96J02;P08729;Q13619;Q13617;P25789;Q96T58;P30307;P51610;Q9Y6K9;Q13363;P28062;P05783;P09914;Q13547;Q12824;Q6VMQ6;P28065;P60842;Q6UU07;Q9UI12;P62993;P52657;P21675;Q86V81;Q5TCQ9;O95295;P06748;Q00987;P05388;Q7KZ85;Q13158;O14818;Q9C035;P53618;Q92793;P61586;Q9H2J4;Q6ZRS2;P54725;P17096;P17544;Q12986;Q00403;Q04206;Q15056;P63279;P05787;P42224;Q9BYX4;P40306;Q93034;Q9NXV2;O75164;Q14999;Q9Y2

97;P62877;O00308;O43463;Q7KZF4;Q86VP3;Q8WXG1;Q15542;Q9H0M0;O75843;Q9NWF9;P49450;O15519;Q14258;Q9HC16;O60870;P49790;Q9BUP3;Q92985;O14980;Q53ET0;Q9Y224;P52294;Q9Y6Y0;Q9UER7;Q08AM6;P49720;P28074;Q9Y4B6;Q9UKL0;Q15369;Q6VY07;O60583;Q14240;P08670;Q8TAF3;Q8TAE8;P25788;Q13765;P10809;Q6UUV9;P25963;P14324;Q93009;Q9P1T7;O75475;Q9UKC9;Q13616;P20226;Q969H0;Q12959;P28072;Q14160;Q14653;O00505;O75531;O95639;P11387;P62826;Q12983;P08727;Q04637;O60563;P23497;Q99816;Q01826;Q7Z5K2;P28749;Q92831;Q96G01;Q99436;P63172;Q15629;O60885;O60238;O60506;Q92830;O14734;Q9HB58;P45973;Q92973;P40763;P52292;Q9NWZ5;Q8NDT2;Q71F23;Q13435;Q86X55;Q14974;P35998;P19388;Q13409;P16220;Q15046;P52630;Q15326;Q86U42;P06730;P27986;O43765;O95373;Q9BRP4;Q16531;O15304;Q9BXS5;Q66K89;Q7L5N1;P28070;P06400;Q96T37;P08047;P52948;P20618;P13051;P29083;Q96PU5;Q9UBU9;P49721;P63167;Q96LA8;P17980;P11142;Q14790;Q9NPG3;Q9UGR2;Q8WUM4}

23569 Pathogen[ P03346] interacts with 193 human partners: {O75179;Q9NPG3;Q96G01;Q7KZ85;Q9Y6K9;Q96J02;O95639;P08729;Q15542;Q86U42;P61978;P28070;Q93009;P25789;P06730;P45973;Q53ET0;P05783;Q96PU5;Q14258;P16220;P09651;P08727;Q9UKL0;P06748;Q13616;Q9NWF9;O75531;Q7Z5K2;Q9UGR2;Q8TAE8;O95295;P28072;Q9BUP3;Q13158;P06400;P25963;P25788;Q9BYM8;P28074;P49721;O60563;O60238;Q5TCQ9;O14818;P62258;Q99436;O15304;P51610;Q15629;Q16531;P62937;O60506;P05787;Q9BXS5;O75475;O75970;O00410;Q14141;Q12986;Q04206;Q99816;P53618;Q9NXV2;Q07021;P11142;O00268;Q15056;Q9C035;P28062;P62993;Q14457;Q12824;P63279;O00505;Q15942;Q92831;Q8TAF3;P20618;Q9Y4B6;P60842;Q12983;P49715;P17096;Q66K89;O43463;Q93034;P62826;Q00987;O15519;P08047;P20226;P62877;O60870;P19388;O60583;Q92830;Q9BUN8;Q9Y6Y0;Q86V81;Q75843;O14980;Q9Y224;Q92973;Q8IYM9;Q8NDT2;Q86UT6;Q6VMQ6;Q13435;Q7KZF4;O95373;P49720;P28065;O75164;Q13547;P13051;P05388;P52657;Q6UUV9;P17544;P14324;Q9UER7;Q14240;P42224;P63172;Q14653;Q6ZRS2;Q96T58;Q9BYX4;O43765;P08670;P28749;P21675;O60885;Q15326;Q15369;Q14790;P49450;Q13409;Q13619;O14734;Q9UBU9;Q9H6F5;P54725;Q9HB58;P52292;Q14999;Q13363;P49790;Q86X55;P63167;Q6UUV7;P23497;Q86YS3;Q04637;Q05086;Q14160;Q9H0M0;P29083;Q9P1T7;Q92993;Q00403;Q92793;Q92985;P29914;P52630;P40763;Q9Y297;Q9UKC9;Q969H0;Q13765;Q6VY07;Q9H2J4;Q8WUM4;Q86VP3;P52294;Q7L5N1;Q96T37;Q01826;Q96LA8;Q71F23;Q9NWZ5;P40306;P27986;Q9BRP4;P30307;P11387;O00308;P61586;Q12959;Q14974;P52948;Q13617}

23570 Pathogen[ Q85601] interacts with 183 human partners: {Q14457;P52657;Q99816;O43765;Q96J02;P08729;Q15542;P61978;Q13409;O75843;Q53ET0;Q08AM6;P62993;P17096;Q14258;O60563;Q93009;Q86X55;Q969H0;Q6UUV9;P05388;Q9NPG3;Q15629;P13051;Q9UGR2;P06730;Q16531;O95295;O60506;Q14240;Q9UBU9;Q13158;P06400;P08670;P05787;P25788;Q86YS3;Q9BXS5;Q9HC16;Q14790;P62877;O15304;P40763;O60583;P62826;Q9UER7;Q71F23;Q04637;Q13616;O00268;Q9BRP4;Q96PU5;Q9NWF9;Q15046;Q13363;Q86V81;Q92831;Q7KZF4;Q9Y4B6;P63172;O43463;P63279;P51610;Q14974;P08047;P27986;P52630;Q9UKC9;Q7Z5K2;O14734;P25789;P11387;O60870;P19388;Q9H2J4;Q92830;Q14653;P20618;Q9Y6K9;Q9Y6Y0;P30307;Q13435;Q8NDT2;P05783;P40306;O95373;Q92973;Q6VY07;P62258;P49720;P16220;Q04206;P45973;Q96G01;P54725;P28062;Q13765;P11142;P49721;Q8IYM9;Q7KZ85;Q9HB58;Q15942;P52948;P14324;P9BYX4;Q6ZRS2;P29083;P49450;Q92985;Q14160;Q01826;P42224;Q15369;P06748;Q5TCQ9;P28072;P60842;Q00403;P61586;P28065;Q8TAF3;Q96T58;O14980;Q99436;Q9C035;P17544;P28070;P28749;P09914;P53618;P49715;Q12959;O60885;Q15326;O95639;P08727;Q12983;P52292;Q14999;P21675;Q8WUM4;O75164;Q96T37;Q6UUV7;Q13547;Q05086;Q66K89;P28074;Q92993;Q9P1T7;Q92793;O75475;Q6VMQ6;O00505;Q9NXV2;P19447;Q86U42;Q00987;O75531;O60238;Q12824;Q07021;Q13619;Q9UKL0;O14818;P62937;Q9BUP3;P52294;Q86VP3;O15519;Q8TAE8;P49790;P63167;Q7L5N1;Q9Y224;Q93034;O00410;Q96LA8;P20226;Q12986;P25963;Q13617}

23571 Pathogen[ P14079] interacts with 172 human partners: {Q15629;Q9BRP4;Q6VY07;O95373;P28065;Q99436;Q12986;Q14004;P60842;Q15056;P1142;Q9BXS5;P63279;Q96T37;P63172;Q9BYX4;P52630;P30307;Q969H0;P28749;Q96LA8;Q14653;P06730;Q13765;Q9C035;P09914;Q92830;O15519;O15304;P40306;Q92985;Q92793;P28074;O43432;O75475;Q16531;P17096;P52294;Q01826;P49720;Q9BU70;Q9NWZ5;O75179;Q9HC16;Q9UBU9;P08729;Q6ZRS2;Q86YS3;O95639;Q9UKC9;Q9H6F5;P62937;Q14240;P35998;Q14118;O60870;P14324;Q14258;P23497;P51610;P62877;Q7Z434;P20618;Q00987;Q9BUP3;O75843;Q9BUN8;P45973;Q7KZ85;Q71F23;Q6VMQ6;P19388;Q00403;Q14790;Q15046;P28062;Q96HD9;Q9NWF9;Q9UER7;P17544;O00410;Q86VP3;Q8WUM4;P49715;Q9Y6K9;Q9NPG3;O43765;O14734;Q93034;Q66K89;Q14974;P49450;Q86V81;Q86U42;Q9BYM8;Q9HB58;P61586;O60506;Q9Y4B6;O95292;Q9Y6Y0;O14818;Q13409;Q12983;P49721;Q9UKL0;Q9NXV2;P49790;Q96J02;O95295;P06748;P62258;O00505;P52657;P05783;Q8TAE8;Q96G01;P42224;O75531;Q13617;P61978;Q7L5N1;Q86UT6;P62993;Q13158;P63167;O60583;Q96FC9;Q9UI12;Q9P1T7;O60885;Q7KZF4;P08670;Q15369;Q12824;P62826;P25788;Q8TAF3;Q13616;Q99816;Q14457;O60238;Q7Z5K2;Q07021;Q9H2J4;Q9Y224;Q9NUN5;P08727;P52292;Q15542;Q8NDT2;Q96C10;Q14999;P17980;Q15326;P28072;P19447;Q9UGR2;P05388;Q04637;Q13619;P13051;P29083;Q92993;P21675;O00268;P52948;Q96T58;O75970;Q8WXG1;Q15942}

23572 Pathogen[ P03383] interacts with 154 human partners: {Q14457;P30307;P27986;Q13616;P05388;Q9UBU9;P08729;Q92831;Q9Y4B6;Q15369;Q14653;P08047;P06748;P17096;P16220;P08727;Q9Y6K9;P17544;Q12824;Q14160;Q9H2J4;Q6UUV9;P53618;P25789;P08670;Q8TAF3;Q9NWZ5;O95295;Q12986;O15304;P52948;P63172;Q93034;O43463;Q9BUN8;P40306;Q9BRP4;Q86X55;Q01826;Q6VY07;P62937;Q15542;Q6VMQ6;P52630;P49721;Q99816;P61978;P11387;O00505;Q92993;Q86V81;O14734;P05783;Q13435;P20618;Q13158;Q12983;P06400;Q66K89;O75164;Q00403;P62826;Q71F23;P20226;P52657;Q15326;O60870;Q6730;Q92985;Q15629;P45973;P52292;Q9Y6Y0;O60238;P05787;O60563;Q9C035;O75843;P61586;Q92973;Q6UUV7;O14980;Q7KZF4;Q92830;Q9NXV2;Q86VP3;Q15046;P54725;Q13765;P14324;O00268;Q9UER7;O75475;P11142;P25963;Q9NPG3;P28072;Q7L5N1;Q14974;Q5TCQ9;P28065;Q969H0;Q96T58;Q13547;P28749;Q9UKL0;Q9UKC9;P23497;Q04637;Q13617;O43765;O60885;P21675;Q9BUP3;P62877;Q04206;Q07021;Q8WUM4;Q8NDT2;O95373;P28074;Q14258;P19388;P49720;Q16531;P29083;Q9P1T7;Q8TAE8;Q9BXS5;P28062;P13051;Q53ET0;Q86U42;Q9NWF9;P63167;O14818;P62258;O60583;Q99436;P52294;P49790;P63279;Q96LA8;P28070;Q13363;Q92793;O75531;Q9Y224;O00410;Q14999;Q7Z5K2;P25788;Q7KZ85}

- 23573 Pathogen[ P03410] interacts with 196 human partners: {Q92830;Q9Y6G9;Q92831;P62258;Q04206;O60583;O95292;Q6UUUV7;P28070;Q96HD9;P51610;P27986;O95639;Q14974;Q96LA8;O00505;Q13409;Q9BXS5;Q9BU70;O00268;Q12983;P61978;O6085;Q86VP3;P20963;Q66K89;P52294;P05388;P21675;P29083;P06730;Q9NWF9;P35998;O75843;Q12959;Q9Y224;Q7Z5K2;Q7KZ85;P05141;P52948;Q5TCQ9;Q14653;O15519;O60870;Q9BYX4;Q14457;P63172;Q86X55;Q07021;Q9NWZ5;P05787;Q96T37;Q9Y6Y0;P11142;P17096;P45973;P63167;P49721;P20226;P06748;P06400;Q6UUUV9;O43432;Q14160;P54725;Q9NPG3;P52657;Q14258;Q99436;Q96T58;Q8WGX1;Q7Z434;Q53ET0;Q13158;Q6VMQ6;P17544;O95295;P40306;Q99816;Q9HC16;O60563;Q86YS3;O75970;Q7L5N1;Q9C035;Q12986;Q6ZRS2;Q86UT6;Q14734;Q92793;P49790;P62937;Q9NUN5;Q08AM6;Q15369;Q9P1T7;Q9UER7;P62826;Q969H0;Q9BUN8;P61586;Q15942;Q9H6F5;Q92973;Q9UGR2;Q15056;O75531;Q15629;P28062;Q71F23;Q01826;Q9UKC9;Q15326;P62877;P19447;P11387;Q9UI12;O43765;Q96G01;Q9BUP3;Q8NDT2;Q86V81;Q8TAF3;P16220;Q00403;O14818;P53618;Q9UBU9;Q15046;Q14118;P60842;Q16531;Q9NRW3;P08670;P49450;P28749;P25789;P49720;Q13616;P52630;Q96C10;Q13547;Q13619;P63279;Q15542;Q7KZF4;P08047;O60506;Q96FC9;Q9BRP4;Q13617;P28072;P13051;Q00987;O75475;O43463;O00410;P08729;Q9UKL0;Q9Y6K9;Q86U42;Q04637;P25963;Q92985;P25788;Q13765;O75164;Q12824;P52292;Q6VY07;P62993;Q9Y4B6;Q92993;Q8WUM4;P19388;P40763;P09914;Q93034;O75179;P08727;P05783;P28065;P30307;O60238;Q9HB58;P17980;Q9H2J4;O14980;P20618;P14324;O95373;Q14240;P28074;Q13435;O15304;Q9NXV2}
- 23574 Pathogen[ P14075] interacts with 155 human partners: {Q14457;P13051;P52630;P11387;P52292;P08729;Q9BUP3;Q12983;P25788;P23497;P11142;Q04206;P21675;P05783;P08727;P52657;Q15542;Q07021;Q93034;Q9NWZ5;Q86V81;Q9H6F5;O75475;Q14160;Q92831;O95295;Q9Y224;Q00403;Q8WUM4;P49720;O60563;P29083;Q9UKL0;Q96T58;P51610;Q92973;P17096;P05388;Q9P1T7;Q14734;P19388;Q7KZ85;O60583;Q53ET0;P45973;P06730;P20226;Q5TCQ9;Q15629;P63279;P63172;O15304;P28070;P25963;Q13547;P49721;Q92993;Q01826;O00505;Q9NXV2;O60870;Q8TAF3;Q14999;O14980;Q86VP3;Q9NWF9;P52294;Q9Y6Y0;Q12986;Q13435;Q15326;Q14653;P28062;P28074;Q96LA8;O95373;Q7Z5K2;P28065;Q86X55;P53618;Q9H2J4;Q6VMQ6;Q04637;Q13765;O60238;Q6UUUV9;Q13158;P27986;Q9BUN8;P14324;Q16531;O00410;P62826;Q9UKC9;O14818;Q9C035;P06748;P28072;P61586;Q14258;P61978;P06400;Q12824;P08670;P28749;Q66K89;O00268;Q8NDT2;O60885;P62937;Q92793;Q7L5N1;P54725;O43463;Q6UUUV7;O75843;P16220;P20618;Q7KZF4;Q9Y6K9;Q13363;Q9BXS5;Q9UBU9;Q14974;Q92985;P49790;Q9UER7;Q99816;Q13616;Q9BRP4;Q15046;P17544;Q86U42;P40306;Q969H0;Q92830;Q13617;Q15369;Q99436;P30307;Q71F23;P63167;Q8TAE8;Q6VY07;P62877;O75164;O43765;P52948;P62258;O75531;Q9Y4B6;P05787;P25789;Q9NPG3;P08047}
- 23575 Pathogen[ P0C206] interacts with 193 human partners: {Q8TAE8;Q9UKC9;Q9Y224;Q99436;P28062;P05787;Q96PU5;P62877;Q96T37;P54725;Q8TAF3;P45973;Q92830;P49790;Q6VMQ6;P40306;P28065;Q9BUP3;Q9Y6K9;P30307;Q9H6F5;P20226;O00308;P53618;P16220;P17544;P25788;Q07021;Q14258;Q9NXV2;P08727;P52657;Q9UKL0;Q86X55;P63167;Q5TCQ9;P49720;P61978;P19388;O60870;Q14974;O43463;P25963;Q05086;O00268;Q96J02;Q96LA8;Q9NWF9;Q7Z5K2;O00505;P08729;Q14457;Q969H0;Q7KZF4;Q86U42;Q9UER7;Q6ZRS2;Q13547;Q16531;P49715;Q93009;P62826;Q99816;Q9NWZ5;Q92993;Q12824;Q13158;Q13616;Q9HB58;Q15326;Q92973;Q92831;Q14141;P27986;O00410;O15519;Q13409;P62993;P06730;P28749;O75475;P61586;P19447;Q92793;P25789;Q9Y6Y0;O95292;Q14999;Q13435;O60238;Q9NPG3;O75531;Q6UUUV9;Q13619;Q12983;P14324;Q13617;O60506;Q9BXS5;Q6VY07;P49450;P62258;P20618;Q9UBU9;P08047;O95373;P28070;Q12986;P29083;P51610;Q92985;O60885;Q14160;Q04206;Q9UI12;Q86VP3;Q7KZ85;Q15942;Q9Y6G9;Q9BUN8;O14734;P05388;P05783;Q14790;O14818;Q9C035;P40763;Q14240;O95295;Q96T58;Q15542;P17096;Q8WUM4;P28072;O95639;Q53ET0;Q8IYM9;Q01826;O75164;Q15629;P28074;Q9BRP4;O7543;Q9HC16;Q04637;P49721;P06748;Q93034;P08670;O75179;P11387;Q9BYX4;O60583;Q96C10;Q00987;Q13363;Q9Y4B6;Q7L5N1;Q00403;Q9BYM8;Q66K89;P52294;P63172;P42224;P60842;Q8WGX1;P13051;O60563;Q9UGR2;Q86YS3;Q71F23;Q15369;P62937;O43765;Q13765;Q6UUUV7;O15304;P11142;Q12959;P52292;Q9P1T7;P52630;Q9H2J4;Q86V81;P21675;Q96G01;Q08AM6;Q8NDT2;Q15046;Q9BU70;Q14653;P09914;P06400}
- 23576 Pathogen[ P03363] interacts with 158 human partners: {Q9NWF9;Q9Y6Y0;O75179;P05783;Q14653;O14734;Q12959;P52630;P62258;Q6VMQ6;Q92973;Q53ET0;Q92985;Q9BUP3;P29083;Q96T58;P62937;Q9NWZ5;P63167;Q04206;O15519;P19388;Q13435;Q8TAF3;O60563;P05388;P11387;Q96LA8;Q92831;P25963;Q14457;P09914;Q14258;P45973;O14980;Q16531;O00410;Q6ZRS2;O15304;O00505;P09651;Q14160;Q15056;Q01826;P16220;Q9NPG3;Q9NXV2;P13051;Q9Y6K9;Q66K89;Q13617;O75475;O75164;Q9UER7;O00268;Q13765;Q9UBU9;Q86U42;Q15369;P53618;Q13158;O75970;P23497;P06400;O43765;P05787;Q9BXS5;Q7KZF4;Q12986;P06748;Q05086;P28749;Q6VY07;P52657;Q7KZ85;Q07021;O60885;Q15326;Q00403;Q13619;Q9P1T7;P08727;O60583;Q13616;Q14999;Q8WUM4;P62877;P63172;Q14240;Q96PU5;P49450;Q92830;P17096;Q8TAE8;Q7L5N1;Q5TCQ9;P08670;Q9UGR2;O60870;Q86V81;Q9H6F5;Q15542;Q969H0;Q9C035;Q9H2J4;Q14974;P63279;Q6UUUV9;Q13547;Q96T37;P49790;P08729;Q71F23;Q13409;Q92793;P54725;O95295;P21675;O00308;P20226;P60842;O43463;O75531;O60506;Q9BYX4;P61978;O75843;Q99816;O95373;P52948;Q9UKL0;Q9Y224;Q93034;Q13363;P08047;Q9H0M0;Q9UKC9;Q14141;Q9Y4B6;P17544;Q6UUUV7;P30307;Q7Z5K2;P62826;P52292;O60238;P27986;P06730;Q92993;Q12824;Q86X55;Q15942;P11142;P51610;Q04637;P52294;Q8NDT2;Q9BRP4}
- 23577 [Cluster 2144]GO:0006534+P biological\_process [name] cysteine metabolic process [def] "The chemical reactions and pathways involving cysteine, 2-amino-3-mercaptopropanoic acid." [GOC
- 23578 Pathogen[ Q2Q067] interacts with 2 human partners: {Q9Y697;P32929}
- 23579 Pathogen[ P0C214] interacts with 2 human partners: {P32929;Q9Y697}
- 23580 Pathogen[ P03346] interacts with 2 human partners: {Q9Y697;P32929}
- 23581 Pathogen[ Q85601] interacts with 2 human partners: {Q9Y697;P32929}
- 23582 Pathogen[ P14079] interacts with 3 human partners: {Q9Y697;P32929;Q16878}
- 23583 Pathogen[ P03383] interacts with 1 human partners: {Q9Y697}
- 23584 Pathogen[ P03410] interacts with 2 human partners: {P32929;Q9Y697}

23585 Pathogen[ P14075] interacts with 1 human partners:{Q9Y697}  
23586 Pathogen[ P0C206] interacts with 2 human partners:{Q9Y697;P32929}  
23587 Pathogen[ P03363] interacts with 1 human partners:{Q9Y697}  
23588 [Cluster 2145]GO:0070193+P biological\_process [name] synaptonemal complex organization  
[def] "A process that is carried out at the cellular level which results in the  
assembly, arrangement of constituent parts, or disassembly of a synaptonemal complex. A  
synaptonemal complex is a proteinaceous scaffold formed between homologous chromosomes  
during meiosis." [GOC  
23589 Pathogen[ Q2Q067] interacts with 1 human partners:{P63146}  
23590 Pathogen[ P0C214] interacts with 1 human partners:{P63146}  
23591 Pathogen[ P03346] interacts with 1 human partners:{P63146}  
23592 Pathogen[ Q85601] interacts with 1 human partners:{P63146}  
23593 Pathogen[ P14079] interacts with 1 human partners:{P63146}  
23594 Pathogen[ P03383] interacts with 1 human partners:{P63146}  
23595 Pathogen[ P03410] interacts with 1 human partners:{P63146}  
23596 Pathogen[ P14075] interacts with 1 human partners:{P63146}  
23597 Pathogen[ P0C206] interacts with 1 human partners:{P63146}  
23598 Pathogen[ P03363] interacts with 1 human partners:{P63146}  
23599 [Cluster 2146]GO:0051865+P biological\_process [name] protein autoubiquitination  
[def] "The ubiquitination by a protein of one or more of its own amino acid residues, or  
residues on an identical protein. Ubiquitination occurs on the lysine residue by  
formation of an isopeptide crosslink." [GOC  
23600 Pathogen[ Q2Q067] interacts with 18 human  
partners:{P19474;O60260;Q96T88;Q12933;P63146;P78317;Q5TA31;Q9NPD8;O95628;Q96PM5;Q9NT  
X7;Q9Y4L5;O76064;Q13216;Q9UNE7;P49459;Q96PU4;Q92466}  
23601 Pathogen[ P0C214] interacts with 18 human  
partners:{Q96PM5;P19474;O95628;Q9NNTX7;Q96PU4;P49459;Q96T88;P78317;Q13216;Q12933;Q5TA  
31;O60260;Q9Y4L5;Q92466;Q9UNE7;O76064;Q9NPD8;P63146}  
23602 Pathogen[ P03346] interacts with 19 human  
partners:{O76064;O95628;Q96PM5;Q9NNTX7;P49459;Q5TA31;O94972;P63146;Q9UNE7;Q9NPD8;Q132  
16;P78317;O60260;P19474;Q9Y4L5;Q96PU4;Q92466;O94822;Q96T88}  
23603 Pathogen[ Q85601] interacts with 18 human  
partners:{P78317;P63146;Q13216;Q96PM5;Q96PU4;Q9Y4L5;Q9NPD8;Q5TA31;O76064;Q12933;O956  
28;Q96T88;Q9NNTX7;P49459;O60260;P19474;Q92466;Q9UNE7}  
23604 Pathogen[ P14079] interacts with 11 human  
partners:{O60260;O95628;Q5TA31;Q9NPD8;Q13216;P19474;P49459;Q12933;P78317;Q92466;P631  
46}  
23605 Pathogen[ P03383] interacts with 14 human  
partners:{P19474;Q13216;Q96PU4;Q9NNTX7;P78317;O95628;O60260;Q5TA31;Q12933;Q96PM5;P494  
59;Q9NPD8;P63146;Q92466}  
23606 Pathogen[ P03410] interacts with 11 human  
partners:{O95628;P49459;Q5TA31;O60260;Q92466;Q9UNE7;P78317;P63146;Q12933;Q13216;Q9NP  
D8}  
23607 Pathogen[ P14075] interacts with 14 human  
partners:{Q96PM5;Q9NNTX7;P49459;Q96PU4;Q13216;Q9NPD8;O95628;Q12933;P19474;P78317;P631  
46;Q5TA31;Q92466;O60260}  
23608 Pathogen[ P0C206] interacts with 19 human  
partners:{Q9NPD8;Q9Y4L5;O94822;Q12933;P78317;Q13216;O95628;Q5TA31;Q9UNE7;P49459;Q96T  
88;O60260;Q96PM5;Q92466;Q9NNTX7;O76064;Q96PU4;P63146;P19474}  
23609 Pathogen[ P03363] interacts with 18 human  
partners:{O94972;P49459;O95628;Q12933;Q9NNTX7;P78317;P63146;Q9UNE7;P19474;Q96PM5;Q924  
66;Q9NPD8;Q5TA31;Q96T88;Q9Y4L5;O94822;Q13216;Q96PU4}  
23610 [Cluster 2147]GO:0045348+P biological\_process [name] positive regulation of MHC class  
II biosynthetic process [def] "Any process that activates or increases the frequency,  
rate or extent of the chemical reactions and pathways resulting in the formation of MHC  
class II." [GOC  
23611 Pathogen[ Q2Q067] interacts with 1 human partners:{P33076}  
23612 Pathogen[ P0C214] interacts with 1 human partners:{P33076}  
23613 Pathogen[ P03346] interacts with 1 human partners:{P33076}  
23614 Pathogen[ Q85601] interacts with 1 human partners:{P33076}  
23615 Pathogen[ P14079] interacts with 1 human partners:{P33076}  
23616 Pathogen[ P03383] interacts with 1 human partners:{P33076}  
23617 Pathogen[ P03410] interacts with 1 human partners:{P33076}  
23618 Pathogen[ P14075] interacts with 1 human partners:{P33076}  
23619 Pathogen[ P0C206] interacts with 1 human partners:{P33076}  
23620 Pathogen[ P03363] interacts with 1 human partners:{P33076}  
23621 [Cluster 2148]GO:0006693+P biological\_process [name] prostaglandin metabolic process  
[def] "The chemical reactions and pathways involving prostaglandins, any of a group of  
biologically active metabolites which contain a cyclopentane ring due to the formation  
of a bond between two carbons of a fatty acid. They have a wide range of biological  
activities." [ISBN  
23622 Pathogen[ Q2Q067] interacts with 1 human partners:{Q15185}  
23623 Pathogen[ P0C214] interacts with 2 human partners:{Q8TBF2;Q15185}  
23624 Pathogen[ P03346] interacts with 1 human partners:{Q15185}  
23625 Pathogen[ Q85601] interacts with 1 human partners:{Q15185}  
23626 Pathogen[ P14079] interacts with 2 human partners:{Q15185;Q8TBF2}

23627 Pathogen[ P03383] interacts with 1 human partners:{Q15185}

23628 Pathogen[ P03410] interacts with 2 human partners:{Q15185;Q8TBF2}

23629 Pathogen[ P14075] interacts with 1 human partners:{Q15185}

23630 Pathogen[ P0C206] interacts with 2 human partners:{Q15185;Q8TBF2}

23631 Pathogen[ P03363] interacts with 1 human partners:{Q15185}

23632 [Cluster 2149]GO:0006662+P biological\_process [name] glycerol ether metabolic process [def] "The chemical reactions and pathways involving glycerol ethers, any anhydride formed between two organic hydroxy compounds, one of which is glycerol." [GOC

23633 Pathogen[ Q2Q067] interacts with 1 human partners:{P10599}

23634 Pathogen[ P0C214] interacts with 2 human partners:{P10599;P13667}

23635 Pathogen[ P03346] interacts with 3 human partners:{O43396;P13667;P10599}

23636 Pathogen[ Q85601] interacts with 1 human partners:{P10599}

23637 Pathogen[ P14079] interacts with 1 human partners:{P10599}

23638 Pathogen[ P03383] interacts with 1 human partners:{P10599}

23639 Pathogen[ P03410] interacts with 2 human partners:{P10599;P13667}

23640 Pathogen[ P14075] interacts with 1 human partners:{P10599}

23641 Pathogen[ P0C206] interacts with 2 human partners:{P10599;P13667}

23642 Pathogen[ P03363] interacts with 1 human partners:{O43396}

23643 [Cluster 2150]GO:0007617+P biological\_process [name] mating behavior [def] "The behavioral interactions between organisms for the purpose of mating, or sexual reproduction resulting in the formation of zygotes." [GOC

23644 Pathogen[ Q2Q067] interacts with 1 human partners:{Q02577}

23645 Pathogen[ P0C214] interacts with 1 human partners:{Q02577}

23646 Pathogen[ P03346] interacts with 1 human partners:{Q02577}

23647 Pathogen[ Q85601] interacts with 1 human partners:{Q02577}

23648 Pathogen[ P14079] interacts with 1 human partners:{Q02577}

23649 Pathogen[ P03383] interacts with 1 human partners:{Q02577}

23650 Pathogen[ P03410] interacts with 1 human partners:{Q02577}

23651 Pathogen[ P14075] interacts with 1 human partners:{Q02577}

23652 Pathogen[ P0C206] interacts with 1 human partners:{Q02577}

23653 Pathogen[ P03363] interacts with 1 human partners:{Q02577}

23654 [Cluster 2151]GO:0090161+P biological\_process [name] Golgi ribbon formation [def] "The formation of a continuous ribbon of interconnected Golgi stacks of flat cisternae." [GOC

23655 Pathogen[ Q2Q067] interacts with 2 human partners:{Q96CV9;Q8IWJ2}

23656 Pathogen[ P0C214] interacts with 2 human partners:{Q8IWJ2;Q96CV9}

23657 Pathogen[ P03346] interacts with 2 human partners:{Q96CV9;Q8IWJ2}

23658 Pathogen[ Q85601] interacts with 2 human partners:{Q8IWJ2;Q96CV9}

23659 Pathogen[ P14079] interacts with 2 human partners:{Q8IWJ2;Q96CV9}

23660 Pathogen[ P03383] interacts with 2 human partners:{Q8IWJ2;Q96CV9}

23661 Pathogen[ P03410] interacts with 2 human partners:{Q96CV9;Q8IWJ2}

23662 Pathogen[ P14075] interacts with 2 human partners:{Q8IWJ2;Q96CV9}

23663 Pathogen[ P0C206] interacts with 2 human partners:{Q96CV9;Q8IWJ2}

23664 Pathogen[ P03363] interacts with 2 human partners:{Q96CV9;Q8IWJ2}

23665 [Cluster 2152]GO:0043434+P biological\_process [name] response to peptide hormone stimulus [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a peptide hormone stimulus. A peptide hormone is any of a class of peptides that are secreted into the blood stream and have endocrine functions in living animals." [PMID

23666 Pathogen[ Q2Q067] interacts with 15 human partners:{Q9Y266;P40763;P49770;P30279;P05062;P36956;P62324;Q9UI10;O14508;Q14232;Q9NR50;P29474;Q13144;P42224;P78543}

23667 Pathogen[ P0C214] interacts with 19 human partners:{P50440;P29474;Q9UI10;P49770;P78543;P17275;P42224;Q14232;Q9Y266;P05062;P11168;Q9NR50;Q13144;P05543;P62324;O14508;P30279;P40763;O15524}

23668 Pathogen[ P03346] interacts with 18 human partners:{O15524;P30279;P29474;P36956;P17275;O14508;P51843;Q9Y266;Q14232;P49770;P42224;P05062;P62324;Q13144;P40763;P78543;Q9NR50;Q9UI10}

23669 Pathogen[ Q85601] interacts with 17 human partners:{P11168;P40763;P62324;Q9NR50;Q13144;P05062;P49770;O14508;Q9Y266;P36956;P78543;P30279;P42224;P29474;P17275;Q14232;Q9UI10}

23670 Pathogen[ P14079] interacts with 15 human partners:{P04083;P78543;P62324;Q9UI10;Q9Y266;Q14118;Q13144;Q9NR50;P17275;P42224;O14508;Q14232;P50440;P81277;P36956}

23671 Pathogen[ P03383] interacts with 12 human partners:{P29474;P62324;Q9UI10;P11168;P30279;Q13144;Q9NR50;P78543;P49770;Q9Y266;Q14232;P17275}

23672 Pathogen[ P03410] interacts with 19 human partners:{P36956;Q9NR50;P30279;P11168;Q14232;P05062;P49770;P29474;O14508;P17275;P62324;Q14118;P78543;Q9Y266;P81277;P50440;P40763;Q9UI10;Q13144}

23673 Pathogen[ P14075] interacts with 13 human partners:{P29474;Q9Y266;P62324;P17275;P30279;Q9UI10;Q14232;P78543;P49770;Q9NR50;P11168;Q13144;P50440}

23674 Pathogen[ P0C206] interacts with 19 human partners:{P62324;P05062;P17275;P30279;Q14232;P36956;O15524;Q9NR50;Q13144;P11168;P497



70;P50440;O14508;Q9UI10;P40763;P29474;P42224;Q9Y266;P78543}

23675 Pathogen[ P03363] interacts with 12 human partners: {P29474;O15524;P30279;Q9Y266;Q9UI10;P78543;P17275;Q9NR50;P62324;P49770;Q13144;O14508}

23676 [Cluster 2153]GO:0006998+P biological\_process [name] nuclear envelope organization [def] "A process that is carried out at the cellular level which results in the assembly, arrangement of constituent parts, or disassembly of the nuclear envelope." [GOC

23677 Pathogen[ Q2Q067] interacts with 4 human partners: {Q9UH99;P02545;O75694;O95476}

23678 Pathogen[ P0C214] interacts with 4 human partners: {O75694;Q9UH99;O95476;P02545}

23679 Pathogen[ P03346] interacts with 6 human partners: {O75694;Q8WXH0;Q9UH99;P02545;O95476;O94901}

23680 Pathogen[ Q85601] interacts with 5 human partners: {P02545;O75694;Q9UH99;O95476;O94901}

23681 Pathogen[ P14079] interacts with 6 human partners: {O94901;Q8WXH0;O95476;Q9UH99;P02545;O75694}

23682 Pathogen[ P03383] interacts with 3 human partners: {P02545;Q9UH99;O75694}

23683 Pathogen[ P03410] interacts with 6 human partners: {Q9UH99;O75694;P02545;O95476;O94901;Q8WXH0}

23684 Pathogen[ P14075] interacts with 3 human partners: {P02545;Q9UH99;O75694}

23685 Pathogen[ P0C206] interacts with 6 human partners: {Q9UH99;O95476;O94901;O75694;P02545;Q8WXH0}

23686 Pathogen[ P03363] interacts with 5 human partners: {P02545;O95476;O75694;O94901;Q9UH99}

23687 [Cluster 2154]GO:0033205+P biological\_process [name] cell cycle cytokinesis [def] "Cytokinesis that occurs in the context of cell cycle progression and results in the division of the cytoplasm of a cell and its separation into two daughter cells." [GOC

23688 Pathogen[ Q2Q067] interacts with 2 human partners: {O76095;Q02241}

23689 Pathogen[ P0C214] interacts with 1 human partners: {Q02241}

23690 Pathogen[ P03346] interacts with 4 human partners: {P51587;Q02241;Q9H8V3;O76095}

23691 Pathogen[ Q85601] interacts with 3 human partners: {Q02241;O76095;P51587}

23692 Pathogen[ P14079] interacts with 4 human partners: {O76095;Q02241;P51587;Q9H8V3}

23693 Pathogen[ P03383] interacts with 2 human partners: {Q02241;O76095}

23694 Pathogen[ P03410] interacts with 4 human partners: {P51587;O76095;Q9H8V3;Q02241}

23695 Pathogen[ P14075] interacts with 2 human partners: {Q02241;O76095}

23696 Pathogen[ P0C206] interacts with 4 human partners: {P51587;Q02241;Q9H8V3;O76095}

23697 Pathogen[ P03363] interacts with 2 human partners: {Q02241;O76095}

23698 [Cluster 2155]GO:0000729+P biological\_process [name] DNA double-strand break processing [def] "The 5' to 3' exonucleolytic resection of the DNA at the site of the break to form a 3' single-strand DNA overhang." [PMID

23699 Pathogen[ Q2Q067] interacts with 3 human partners: {Q9H4L7;P61088;Q15819}

23700 Pathogen[ P0C214] interacts with 3 human partners: {Q9H4L7;Q15819;P61088}

23701 Pathogen[ P03346] interacts with 3 human partners: {P61088;Q9H4L7;Q15819}

23702 Pathogen[ Q85601] interacts with 3 human partners: {Q9H4L7;P61088;Q15819}

23703 Pathogen[ P14079] interacts with 2 human partners: {Q15819;Q9H4L7}

23704 Pathogen[ P03383] interacts with 2 human partners: {P61088;Q15819}

23705 Pathogen[ P03410] interacts with 3 human partners: {Q9H4L7;P61088;Q15819}

23706 Pathogen[ P14075] interacts with 2 human partners: {Q15819;P61088}

23707 Pathogen[ P0C206] interacts with 3 human partners: {Q9H4L7;P61088;Q15819}

23708 Pathogen[ P03363] interacts with 3 human partners: {Q9H4L7;P61088;Q15819}

23709 [Cluster 2156]GO:0043087+P biological\_process [name] regulation of GTPase activity [def] "Any process that modulates the rate of GTP hydrolysis by a GTPase." [GOC

23710 Pathogen[ Q2Q067] interacts with 2 human partners: {Q96IF1;Q96Q35}

23711 Pathogen[ P0C214] interacts with 1 human partners: {Q96Q35}

23712 Pathogen[ P03346] interacts with 2 human partners: {Q96Q35;Q96IF1}

23713 Pathogen[ Q85601] interacts with 2 human partners: {Q96IF1;Q96Q35}

23714 Pathogen[ P14079] interacts with 3 human partners: {Q96Q35;Q96IF1;Q15042}

23715 Pathogen[ P03383] interacts with 1 human partners: {Q96Q35}

23716 Pathogen[ P03410] interacts with 3 human partners: {Q96IF1;Q96Q35;Q15042}

23717 Pathogen[ P14075] interacts with 1 human partners: {Q96Q35}

23718 Pathogen[ P0C206] interacts with 2 human partners: {Q96IF1;Q96Q35}

23719 Pathogen[ P03363] interacts with 2 human partners: {Q96IF1;Q96Q35}

23720 [Cluster 2157]GO:0016570+P biological\_process [name] histone modification [def] "The covalent alteration of one or more amino acid residues within a histone protein." [GOC

23721 Pathogen[ Q2Q067] interacts with 1 human partners: {Q92541}

23722 Pathogen[ P0C214] interacts with 2 human partners: {Q92541;P50747}

23723 Pathogen[ P03346] interacts with 1 human partners: {Q92541}

23724 Pathogen[ Q85601] interacts with 1 human partners: {Q92541}

23725 Pathogen[ P14079] interacts with 1 human partners: {Q92541}

23726 Pathogen[ P03383] interacts with 1 human partners: {Q92541}

23727 Pathogen[ P03410] interacts with 1 human partners: {Q92541}

23728 Pathogen[ P14075] interacts with 1 human partners: {Q92541}

23729 Pathogen[ P0C206] interacts with 1 human partners: {Q92541}

23730 Pathogen[ P03363] interacts with 1 human partners: {Q92541}

23731 [Cluster 2158]GO:0000045+P biological\_process [name] autophagic vacuole assembly [def] "The formation of a double membrane-bounded structure, the autophagosome, that

occurs when a specialized membrane sac, called the isolation membrane, starts to enclose a portion of the cytoplasm." [PMID

23732 Pathogen[ Q2Q067] interacts with 13 human  
partners:{Q7Z3C6;Q9Y4P1;Q6ZNE5;Q9BSB4;Q8TDY2;Q14457;Q8IXH6;O75143;Q9Y4P8;O94817;Q676U5;Q9NT62;Q9H1Y0}

23733 Pathogen[ P0C214] interacts with 14 human  
partners:{Q14457;Q9BSB4;Q9Y4P1;Q676U5;Q8TDY2;O75143;Q6ZNE5;Q9Y4P8;O94817;Q8IXH6;Q9H1Y0;Q9NT62;Q9H492;Q7Z3C6}

23734 Pathogen[ P03346] interacts with 14 human  
partners:{Q7Z3C6;Q9Y4P1;O75143;Q9BSB4;Q8TDY2;Q9NT62;Q14457;Q6ZNE5;Q9H492;Q9H1Y0;Q8IXH6;Q676U5;O94817;Q9Y4P8}

23735 Pathogen[ Q85601] interacts with 13 human  
partners:{Q14457;Q9H492;O75143;Q9BSB4;Q9Y4P1;Q8TDY2;O94817;Q7Z3C6;Q9Y4P8;Q9H1Y0;Q676U5;Q9NT62;Q8IXH6}

23736 Pathogen[ P14079] interacts with 14 human  
partners:{Q8IXH6;Q9NT62;Q9Y4P8;Q8TDY2;Q9H492;Q7Z3C6;O75143;Q9H1Y0;Q9Y4P1;Q9BSB4;Q6ZNE5;Q676U5;O94817;Q14457}

23737 Pathogen[ P03383] interacts with 13 human  
partners:{Q14457;Q7Z3C6;O75143;Q9Y4P1;Q8TDY2;Q9NT62;Q9H1Y0;Q8IXH6;Q676U5;Q9Y4P8;O94817;Q6ZNE5;Q9BSB4}

23738 Pathogen[ P03410] interacts with 16 human  
partners:{Q8IXH6;Q674R7;Q9H1Y0;Q9Y4P1;Q9BSB4;O75143;Q14457;Q8TDY2;Q9Y4P8;O94817;Q9H492;Q676U5;Q9NT62;Q6ZNE5;Q7Z3C6;Q5MNZ9}

23739 Pathogen[ P14075] interacts with 13 human  
partners:{Q14457;Q6ZNE5;Q9BSB4;Q9NT62;O75143;Q9H1Y0;Q9Y4P1;Q676U5;Q8TDY2;Q9Y4P8;Q8IXH6;O94817;Q7Z3C6}

23740 Pathogen[ P0C206] interacts with 14 human  
partners:{Q7Z3C6;Q8IXH6;Q9BSB4;Q9Y4P1;Q9H492;Q14457;Q6ZNE5;Q9Y4P8;Q9H1Y0;Q8TDY2;Q676U5;O94817;Q9NT62;O75143}

23741 Pathogen[ P03363] interacts with 14 human  
partners:{Q9H492;Q14457;O75143;Q9NT62;Q9BSB4;Q7Z3C6;Q6ZNE5;Q8TDY2;Q9Y4P8;Q9Y4P1;Q676U5;Q8IXH6;O94817;Q9H1Y0}

23742 [Cluster 2159]GO:0006110+P biological\_process [name] regulation of glycolysis [def] "Any process that modulates the frequency, rate or extent of glycolysis." [GOC

23743 Pathogen[ Q2Q067] interacts with 2 human partners:{P18669;O95905}

23744 Pathogen[ P0C214] interacts with 1 human partners:{O95905}

23745 Pathogen[ P03346] interacts with 2 human partners:{P18669;O95905}

23746 Pathogen[ Q85601] interacts with 2 human partners:{P18669;O95905}

23747 Pathogen[ P14079] interacts with 2 human partners:{O95905;P18669}

23748 Pathogen[ P03383] interacts with 2 human partners:{P18669;O95905}

23749 Pathogen[ P03410] interacts with 2 human partners:{O95905;P18669}

23750 Pathogen[ P14075] interacts with 2 human partners:{P18669;O95905}

23751 Pathogen[ P0C206] interacts with 2 human partners:{O95905;P18669}

23752 Pathogen[ P03363] interacts with 2 human partners:{P18669;O95905}

23753 [Cluster 2160]GO:0006521+P biological\_process [name] regulation of cellular amino acid metabolic process [def] "Any process that modulates the frequency, rate or extent of the chemical reactions and pathways involving amino acids." [GOC

23754 Pathogen[ Q2Q067] interacts with 39 human  
partners:{Q99460;O75832;P48556;P40306;P55036;O00231;O00233;P51665;P28072;A5LHX3;Q13200;P25787;Q06323;P28065;O14818;Q9UMX2;Q14997;P60900;Q9UL46;P61289;P28062;P15559;Q9UNM6;P25788;Q92530;P25786;Q16401;O00232;P28074;P25789;P20618;P28070;P28066;Q99436;Q8TAA3;O43242;P49721;P49720;O95190}

23755 Pathogen[ P0C214] interacts with 42 human  
partners:{Q14997;P51665;P25789;P55036;P28062;A5LHX3;P28065;O14818;O43242;P48556;P40306;Q13200;O00232;P54368;Q99460;P28066;O75832;P49720;P28074;Q9UL46;P25788;Q9UNM6;O00231;Q06323;Q9UMX2;P25786;P28072;Q8TAA3;Q99436;P25787;O95190;P35998;P60900;O00233;Q92530;P15559;Q15008;P28070;P20618;P49721;Q16401;P17980}

23756 Pathogen[ P03346] interacts with 39 human  
partners:{P25787;P28070;P25789;P55036;Q99460;Q9UL46;P28072;P25788;P28074;P49721;O14818;Q99436;Q9UMX2;Q16401;A5LHX3;P28062;P15559;P20618;O00232;O75832;O00233;P49720;P28065;P60900;P25786;O00231;P61289;P28066;Q9UNM6;Q8TAA3;Q14997;Q13200;P48556;P51665;Q06323;Q92530;O43242;P40306;O95190}

23757 Pathogen[ Q85601] interacts with 34 human  
partners:{P28066;Q9UNM6;P60900;P55036;P25787;P61289;P25788;O75832;P25789;O00233;Q9UMX2;P20618;P40306;P49720;P28062;P49721;O95190;P25786;P28072;Q13200;P28065;Q99436;P28070;Q8TAA3;Q9UL46;Q99460;O00231;P48556;P28074;Q92530;A5LHX3;Q06323;O14818;Q16401}

23758 Pathogen[ P14079] interacts with 43 human  
partners:{P28065;Q99436;P62333;P48556;P40306;P55036;P28074;O00232;Q9UMX2;P49720;O00487;O95190;P25787;O75832;A5LHX3;O00233;P15559;P35998;P61289;P51665;P20618;Q8TAA3;P54368;Q14997;P28062;P60900;Q9UNM6;Q99460;O14818;P49721;Q92530;Q06323;P62191;Q15008;P43686;O43242;P25788;O00231;P28066;Q9UL46;Q16401;P17980;P28072}

23759 Pathogen[ P03383] interacts with 33 human  
partners:{P55036;P25789;P60900;P40306;O00233;P49721;Q06323;Q14997;P20618;O75832;Q9UL46;O95190;Q9UNM6;P25786;Q99460;P28072;Q13200;P28065;P28066;Q16401;O00231;P28074;Q92530;P49720;Q8TAA3;P61289;P28062;P48556;O14818;Q99436;P28070;P25787;P25788}

23760 Pathogen[ P03410] interacts with 42 human

partners:{P15559;P28070;P55036;P25786;Q15008;Q16401;P60900;Q14997;P35998;Q99460;O00233;O00232;Q8TAA3;P48556;P49721;O95190;A5LHX3;Q99436;P40306;Q06323;Q13200;P25787;P28062;P51665;O14818;O00231;Q9UNM6;P54368;P25789;P49720;P28072;P25788;P28066;Q9UMX2;P28065;O43242;P17980;O75832;P20618;Q9UL46;P28074;P61289}

23761 Pathogen[ P14075] interacts with 33 human partners:{P55036;P25788;P28066;Q06323;O75832;Q8TAA3;P60900;O00233;Q9UL46;P49720;Q13200;P48556;Q16401;P15559;P28070;P49721;O00231;Q92530;P28062;P28074;P28065;P25786;O14818;P28072;Q14997;P25787;P20618;Q9UNM6;P61289;P40306;Q99436;O95190;P25789}

23762 Pathogen[ P0C206] interacts with 39 human partners:{P61289;Q99436;P28062;Q9UNM6;O75832;P40306;P28065;Q14997;P55036;P25786;P25788;P25787;Q06323;P49720;P15559;O00232;P60900;O43242;A5LHX3;P25789;P54368;P20618;Q13200;Q8TAA3;P28070;O95190;Q99460;P28066;O14818;P28072;P28074;Q92530;P49721;Q9UL46;O00233;P48556;Q16401;O00231;Q9UMX2}

23763 Pathogen[ P03363] interacts with 4 human partners:{Q92530;P61289;Q9UMX2;O95190}

23764 [Cluster 2161]GO:0035617+P biological\_process [name] stress granule disassembly [def] "The disaggregation of a stress granule into its constituent protein and RNA parts." [GOC]

23765 Pathogen[ Q2Q067] interacts with 1 human partners:{Q07866}

23766 Pathogen[ P0C214] interacts with 1 human partners:{Q07866}

23767 Pathogen[ P03346] interacts with 1 human partners:{Q07866}

23768 Pathogen[ Q85601] interacts with 1 human partners:{Q07866}

23769 Pathogen[ P14079] interacts with 1 human partners:{Q07866}

23770 Pathogen[ P03383] interacts with 1 human partners:{Q07866}

23771 Pathogen[ P03410] interacts with 2 human partners:{Q07866;P33176}

23772 Pathogen[ P14075] interacts with 1 human partners:{Q07866}

23773 Pathogen[ P0C206] interacts with 1 human partners:{Q07866}

23774 Pathogen[ P03363] interacts with 2 human partners:{P33176;Q07866}

23775 [Cluster 2162]GO:0051439+P biological\_process [name] regulation of ubiquitin-protein ligase activity involved in mitotic cell cycle [def] "A cell cycle process that modulates the frequency, rate or extent of ubiquitin ligase activity that contributes to the mitotic cell cycle." [GOC]

23776 Pathogen[ Q2Q067] interacts with 64 human partners:{Q99460;O75832;P48556;P40306;P55036;O00231;O00233;Q9UJX3;Q9UJX5;P51665;P28072;O00762;A5LHX3;Q13257;Q13200;P25787;Q06323;O43684;Q9NYG5;Q9H1A4;P51965;P28065;O14818;P14635;Q9UJX2;Q9Y297;Q9UM13;Q14997;P60900;Q9UL46;P61289;Q12834;P51668;P28062;Q9UNM6;P25788;Q13616;Q92530;P25786;Q8NHZ8;Q16401;O00232;Q9UM11;Q9UJX4;P28074;P25789;Q9UKT4;P0CG47;P20618;P0CG48;P28070;P28066;Q99436;P24941;Q8TAA3;Q9UJX6;P62987;O43242;P30260;P49721;P49720;Q13042;P63208;P62979}

23777 Pathogen[ P0C214] interacts with 66 human partners:{Q9UJX6;Q14997;P51665;O43684;Q13257;P25789;P55036;P28062;A5LHX3;O00762;P28065;O14818;O43242;Q9UJX5;P63208;P48556;P40306;P14635;Q13200;Q9UJX2;Q9Y297;O00232;P51965;Q99460;P28066;O75832;Q9H1A4;P49720;P28074;P0CG48;Q9UL46;Q8NHZ8;Q12834;P25788;P24941;Q9UNM6;O00231;Q06323;P25786;Q13616;P28072;Q8TAA3;P62987;Q99436;Q9UJX4;P0CG47;P25787;Q9UJX3;P35998;P60900;O00233;Q9UM11;P51668;P62979;P30260;Q92530;Q9NYG5;Q15008;Q9UM13;P28070;Q9UKT4;P20618;P49721;Q16401;P17980;Q13042}

23778 Pathogen[ P03346] interacts with 64 human partners:{P25787;P28070;P25789;P55036;O43684;Q99460;Q9UM11;Q13616;Q9UL46;P62987;P28072;P25788;P28074;P49721;O14818;Q99436;P24941;P0CG48;Q16401;A5LHX3;Q9UM13;P28062;Q9NYG5;P20618;O00232;P51668;Q12834;O75832;O00233;Q9UJX6;P14635;Q13042;P51965;Q9UJX5;P49720;P28065;O00762;Q9UJX2;P60900;P25786;O00231;Q9UKT4;Q9UJX3;Q8NHZ8;P63208;P61289;Q9H1A4;P62979;P28066;Q9UNM6;Q9UJX4;Q8TAA3;P0CG47;Q14997;Q13200;P48556;P51665;Q06323;P30260;Q9Y297;Q92530;O43242;P40306;Q13257}

23779 Pathogen[ Q85601] interacts with 59 human partners:{Q9UJX2;P28066;Q9UNM6;P60900;P55036;Q9UJX6;P25787;P61289;P25788;Q9UKT4;Q8NHZ8;O75832;Q9H1A4;Q13616;P0CG48;P51668;Q12834;Q13257;P25789;O00233;P20618;P63208;P40306;P14635;Q13042;Q9UJX5;P51965;P49720;Q9UM13;P28062;P49721;Q9NYG5;P25786;O00762;P28072;Q9UJX3;Q13200;P28065;P62979;Q99436;P28070;Q9UJX4;Q9UM11;Q8TAA3;Q9UL46;Q99460;O00231;P0CG47;P48556;P28074;Q92530;P62987;A5LHX3;Q06323;P30260;O14818;P24941;O43684;Q16401}

23780 Pathogen[ P14079] interacts with 63 human partners:{P28065;Q99436;P62333;P48556;P51965;P0CG48;Q9UKT4;P40306;Q9UJX3;P55036;P28074;O00232;Q9H1A4;Q9UJX5;P49720;O00487;P25787;O75832;A5LHX3;P62979;O00233;P35998;P61289;P62987;P51665;P20618;Q9NYG5;Q8TAA3;Q14997;P51668;P14635;Q8NHZ8;P28062;P60900;Q9UM11;Q9UM13;Q13042;Q9UNM6;Q13257;Q99460;O14818;P49721;Q92530;Q9UJX6;P30260;Q06323;P62191;O00762;Q15008;P43686;O43242;P25788;P63208;O00231;Q13616;P28066;Q9UL46;P0CG47;Q16401;Q9UJX4;P17980;O43684;P28072}

23781 Pathogen[ P03383] interacts with 59 human partners:{Q13257;Q8NHZ8;Q13616;P55036;P62987;Q9NYG5;P51965;Q9UJX6;P25789;P60900;P40306;O00233;O00762;P49721;Q06323;Q9UKT4;Q14997;Q9H1A4;P63208;P20618;Q13042;P14635;Q12834;O75832;Q9UM13;O43684;P24941;Q9UM11;Q9UL46;Q9UNM6;P25786;Q99460;P28072;Q13200;P28065;P28066;Q9UJX4;Q16401;P62979;O00231;P0CG47;Q9UJX5;P0CG48;P28074;Q92530;P49720;Q8TAA3;P61289;Q9UJX2;P28062;P30260;P48556;O14818;Q9UJX3;Q99436;P28070;P51668;P25787;P25788}

23782 Pathogen[ P03410] interacts with 64 human partners:{Q9UKT4;P28070;P55036;P0CG48;O43684;Q9H1A4;P25786;Q15008;Q16401;P60900;Q14997;P35998;P51965;Q99460;Q9UJX4;Q9NYG5;O00233;Q9UM13;O00232;Q8NHZ8;Q8TAA3;P48556;P497

21;A5LHX3;P62979;Q99436;P40306;Q06323;P63208;Q13200;P25787;P14635;Q9UM11;Q13042;P24941;P28062;P51665;O14818;P51668;Q9UJX5;O00231;Q9UNM6;Q12834;P30260;P25789;P49720;Q13616;Q9UJX3;P62987;O00762;P28072;P25788;P28066;P28065;O43242;Q9UJX6;POCG47;P17980;O75832;P20618;Q9UL46;P28074;P61289;Q13257}

23783 Pathogen[ P14075] interacts with 58 human partners: {P55036;P25788;Q13042;P28066;P24941;Q06323;O75832;Q8TAA3;Q9UKT4;P60900;P14635;Q9UM11;O00233;Q9UL46;P49720;P51965;Q13257;O43684;Q13200;P48556;Q16401;P28070;Q9UJX2;P49721;O00231;Q9UJX6;Q8NHZ8;Q92530;P63208;POCG48;P62979;O00762;P28062;P28074;Q9UJX5;P28065;P25786;O14818;P62987;P28072;Q14997;Q9UJX4;POCG47;P25787;P20618;Q9H1A4;Q9UNM6;Q13616;Q9UM13;P30260;P61289;Q9UJX3;P40306;P51668;Q9NYG5;Q99436;Q12834;P25789}

23784 Pathogen[ POC206] interacts with 62 human partners: {P61289;Q99436;P28062;Q9UNM6;POCG48;O75832;P40306;P28065;Q14997;Q9UJX3;P55036;P25786;P25788;P25787;Q9UJX5;Q9UJX2;Q06323;P49720;O00232;P60900;Q13616;O43242;Q13257;P30260;A5LHX3;P25789;P51965;Q9UKT4;Q9H1A4;Q9NYG5;Q9UJX4;P20618;P63208;Q13200;Q8TAA3;P28070;Q99460;P62979;P28066;Q9UM11;O00762;O14818;Q9UJX6;POCG47;P28072;P28074;Q92530;P49721;P14635;O43684;P62987;Q9UM13;Q9UL46;Q13042;P24941;P51668;O00233;P48556;Q16401;Q12834;Q8NHZ8;O00231}

23785 Pathogen[ P03363] interacts with 25 human partners: {Q9UJX2;Q9NYG5;Q13042;P51965;O00762;Q92530;Q8NHZ8;Q9UJX3;P61289;P24941;Q9UJX5;P30260;P62987;Q9UM11;Q9UJX4;Q13616;O43684;Q9UKT4;Q9H1A4;P62987;Q13257;P51668;Q9UM13;Q12834;P63208}

23786 [Cluster 2163]GO:0043408+P biological\_process [name] regulation of MAPKKK cascade [def] "Any process that modulates the frequency, rate or extent of signal transduction mediated by the MAPKKK cascade." [GOC

23787 Pathogen[ Q2Q067] interacts with 2 human partners: {P41134;P25063}

23788 Pathogen[ POC214] interacts with 4 human partners: {P62993;P41134;P25063;Q9H4P4}

23789 Pathogen[ P03346] interacts with 4 human partners: {Q9H4P4;P62993;P41134;P25063}

23790 Pathogen[ Q85601] interacts with 3 human partners: {P62993;P41134;Q9H4P4}

23791 Pathogen[ P14079] interacts with 4 human partners: {O75787;P25063;P62993;P41134}

23792 Pathogen[ P03383] interacts with 1 human partners: {P25063}

23793 Pathogen[ P03410] interacts with 4 human partners: {O75787;P41134;P25063;P62993}

23794 Pathogen[ P14075] interacts with 1 human partners: {P25063}

23795 Pathogen[ POC206] interacts with 5 human partners: {Q9H4P4;O75787;P62993;P41134;P25063}

23796 Pathogen[ P03363] interacts with 2 human partners: {P41134;Q9H4P4}

23797 [Cluster 2164]GO:0001655+P biological\_process [name] urogenital system development [def] "The process whose specific outcome is the progression of the urogenital system over time, from its formation to the mature structure." [GOC

23798 Pathogen[ Q2Q067] interacts with 3 human partners: {P23769;Q96AP0;P40424}

23799 Pathogen[ POC214] interacts with 2 human partners: {P40424;P23769}

23800 Pathogen[ P03346] interacts with 5 human partners: {Q96AP0;Q9NRZ9;P23769;Q06710;P40424}

23801 Pathogen[ Q85601] interacts with 2 human partners: {P23769;P40424}

23802 Pathogen[ P14079] interacts with 2 human partners: {P23769;Q96AP0}

23803 Pathogen[ P03383] interacts with 2 human partners: {P40424;P23769}

23804 Pathogen[ P03410] interacts with 3 human partners: {Q96AP0;P23769;P40424}

23805 Pathogen[ P14075] interacts with 3 human partners: {P40424;P23769;Q96AP0}

23806 Pathogen[ POC206] interacts with 4 human partners: {Q96AP0;P40424;P23769;Q9NRZ9}

23807 Pathogen[ P03363] interacts with 2 human partners: {Q96AP0;P40424}

23808 [Cluster 2165]GO:0035986+P biological\_process [name] senescence-associated heterochromatin focus assembly [def] "The assembly of chromatin into senescence-associated heterochromatin foci (SAHF), transcriptionally-silent heterochromatin structures present in senescent cells, containing the condensed chromatin of one chromosome, and enriched for histone modifications. Formation of these chromatin structures is thought to repress expression of proliferation-promoting genes." [GOC

23809 Pathogen[ Q2Q067] interacts with 2 human partners: {P42771;P17096}

23810 Pathogen[ POC214] interacts with 2 human partners: {P17096;P42771}

23811 Pathogen[ P03346] interacts with 2 human partners: {P42771;P17096}

23812 Pathogen[ Q85601] interacts with 2 human partners: {P17096;P42771}

23813 Pathogen[ P14079] interacts with 2 human partners: {P17096;P42771}

23814 Pathogen[ P03383] interacts with 2 human partners: {P17096;P42771}

23815 Pathogen[ P03410] interacts with 2 human partners: {P42771;P17096}

23816 Pathogen[ P14075] interacts with 2 human partners: {P17096;P42771}

23817 Pathogen[ POC206] interacts with 2 human partners: {P42771;P17096}

23818 Pathogen[ P03363] interacts with 2 human partners: {P17096;P42771}

23819 [Cluster 2166]GO:0010001+P biological\_process [name] glial cell differentiation [def] "The process in which a relatively unspecialized cell acquires the specialized features of a glial cell." [GOC

23820 Pathogen[ Q2Q067] interacts with 3 human partners: {O00712;Q9UIH9;Q86Y01}

23821 Pathogen[ POC214] interacts with 3 human partners: {Q9UIH9;O00712;Q86Y01}

23822 Pathogen[ P03346] interacts with 4 human partners: {Q9HD90;O00712;Q86Y01;Q9UIH9}

23823 Pathogen[ Q85601] interacts with 4 human partners: {Q9UIH9;O00712;Q86Y01;P17677}

23824 Pathogen[ P14079] interacts with 4 human partners: {P17677;Q86Y01;Q9UIH9;O00712}

23825 Pathogen[ P03383] interacts with 2 human partners: {O00712;Q86Y01}

23826 Pathogen[ P03410] interacts with 4 human partners: {Q9UIH9;O00712;Q86Y01;P17677}

23827 Pathogen[ P14075] interacts with 2 human partners:{000712;Q86Y01}  
23828 Pathogen[ POC206] interacts with 4 human partners:{Q86Y01;P17677;Q9UIH9;000712}  
23829 Pathogen[ P03363] interacts with 3 human partners:{Q86Y01;000712;Q9UIH9}  
23830 [Cluster 2167]GO:0012501+P biological\_process [name] programmed cell death [def] "A process which begins when a cell receives an internal or external signal and activates a series of biochemical events (signaling pathway). The process ends with the death of the cell." [GOC  
23831 Pathogen[ Q2Q067] interacts with 3 human partners:{P11387;Q86YP4;Q9HBM6}  
23832 Pathogen[ POC214] interacts with 4 human partners:{P14618;Q9HBM6;Q86YP4;P11387}  
23833 Pathogen[ P03346] interacts with 4 human partners:{Q16342;Q86YP4;Q9HBM6;P11387}  
23834 Pathogen[ Q85601] interacts with 4 human partners:{Q9HBM6;P11387;P14618;Q86YP4}  
23835 Pathogen[ P14079] interacts with 4 human partners:{Q86YP4;P54826;Q16342;Q9HBM6}  
23836 Pathogen[ P03383] interacts with 3 human partners:{Q86YP4;Q9HBM6;P11387}  
23837 Pathogen[ P03410] interacts with 4 human partners:{Q86YP4;Q9HBM6;P11387;P54826}  
23838 Pathogen[ P14075] interacts with 4 human partners:{P11387;P54826;Q86YP4;Q9HBM6}  
23839 Pathogen[ POC206] interacts with 6 human partners:{Q16342;Q86YP4;Q9HBM6;P11387;P54826;P14618}  
23840 Pathogen[ P03363] interacts with 4 human partners:{Q16342;Q86YP4;P11387;Q9HBM6}  
23841 [Cluster 2168]GO:0031293+P biological\_process [name] membrane protein intracellular domain proteolysis [def] "The proteolytic cleavage of a transmembrane protein leading to the release of an intracellular domain." [PMID  
23842 Pathogen[ Q2Q067] interacts with 2 human partners:{Q04206;P19838}  
23843 Pathogen[ POC214] interacts with 2 human partners:{P19838;Q04206}  
23844 Pathogen[ P03346] interacts with 2 human partners:{Q04206;P19838}  
23845 Pathogen[ Q85601] interacts with 2 human partners:{Q04206;P19838}  
23846 Pathogen[ P14079] interacts with 3 human partners:{Q92542;Q9NZ42;Q8WW43}  
23847 Pathogen[ P03383] interacts with 2 human partners:{Q04206;P19838}  
23848 Pathogen[ P03410] interacts with 5 human partners:{Q04206;P19838;Q9NZ42;Q8WW43;Q92542}  
23849 Pathogen[ P14075] interacts with 2 human partners:{Q04206;P19838}  
23850 Pathogen[ POC206] interacts with 4 human partners:{Q9NZ42;Q92542;P19838;Q04206}  
23851 Pathogen[ P03363] interacts with 2 human partners:{Q04206;P19838}  
23852 [Cluster 2169]GO:0060707+P biological\_process [name] trophoblast giant cell differentiation [def] "The process in which a relatively unspecialized cell acquires specialized features of a trophoblast giant cell of the placenta. Trophoblast giant cells are the cell of the placenta that line the maternal decidua." [GOC  
23853 Pathogen[ Q2Q067] interacts with 2 human partners:{096004;Q99750}  
23854 Pathogen[ POC214] interacts with 2 human partners:{Q99750;096004}  
23855 Pathogen[ P03346] interacts with 4 human partners:{096004;095863;Q99750;000444}  
23856 Pathogen[ Q85601] interacts with 2 human partners:{096004;Q99750}  
23857 Pathogen[ P14079] interacts with 2 human partners:{096004;Q99750}  
23858 Pathogen[ P03383] interacts with 2 human partners:{096004;Q99750}  
23859 Pathogen[ P03410] interacts with 2 human partners:{096004;Q99750}  
23860 Pathogen[ P14075] interacts with 2 human partners:{096004;Q99750}  
23861 Pathogen[ POC206] interacts with 3 human partners:{000444;096004;Q99750}  
23862 Pathogen[ P03363] interacts with 2 human partners:{Q99750;096004}  
23863 [Cluster 2170]GO:0000056+P biological\_process [name] ribosomal small subunit export from nucleus [def] "The directed movement of a ribosomal small subunit from the nucleus into the cytoplasm." [GOC  
23864 Pathogen[ Q2Q067] interacts with 1 human partners:{P62841}  
23865 Pathogen[ POC214] interacts with 1 human partners:{P62841}  
23866 Pathogen[ P03346] interacts with 1 human partners:{P62841}  
23867 Pathogen[ Q85601] interacts with 1 human partners:{P62841}  
23868 Pathogen[ P14079] interacts with 1 human partners:{P62841}  
23869 Pathogen[ P03383] interacts with 1 human partners:{P62841}  
23870 Pathogen[ P03410] interacts with 1 human partners:{P62841}  
23871 Pathogen[ P14075] interacts with 1 human partners:{P62841}  
23872 Pathogen[ POC206] interacts with 1 human partners:{P62841}  
23873 Pathogen[ P03363] interacts with 1 human partners:{P62841}  
23874 [Cluster 2171]GO:0043000+P biological\_process [name] Golgi to plasma membrane CFTR protein transport [def] "The directed movement of Cystic Fibrosis Transmembrane conductance Regulator (CFTR) protein from the Golgi to the plasma membrane." [GOC  
23875 Pathogen[ Q2Q067] interacts with 1 human partners:{P05783}  
23876 Pathogen[ POC214] interacts with 1 human partners:{P05783}  
23877 Pathogen[ P03346] interacts with 1 human partners:{P05783}  
23878 Pathogen[ Q85601] interacts with 1 human partners:{P05783}  
23879 Pathogen[ P14079] interacts with 1 human partners:{P05783}  
23880 Pathogen[ P03383] interacts with 1 human partners:{P05783}  
23881 Pathogen[ P03410] interacts with 1 human partners:{P05783}  
23882 Pathogen[ P14075] interacts with 1 human partners:{P05783}  
23883 Pathogen[ POC206] interacts with 1 human partners:{P05783}  
23884 Pathogen[ P03363] interacts with 1 human partners:{P05783}  
23885 [Cluster 2172]GO:0001778+P biological\_process [name] plasma membrane repair [def] "The resealing of a cell plasma membrane after cellular wounding due to, for instance, mechanical stress." [GOC  
23886 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UKX2}

23887 Pathogen[ P0C214] interacts with 2 human partners:{Q9UKX2;P35580}

23888 Pathogen[ P03346] interacts with 1 human partners:{Q9UKX2}

23889 Pathogen[ Q85601] interacts with 2 human partners:{Q9UKX2;P35580}

23890 Pathogen[ P14079] interacts with 1 human partners:{Q9UKX2}

23891 Pathogen[ P03383] interacts with 2 human partners:{Q9UKX2;P35580}

23892 Pathogen[ P03410] interacts with 2 human partners:{Q9UKX2;P35580}

23893 Pathogen[ P14075] interacts with 1 human partners:{Q9UKX2}

23894 Pathogen[ P0C206] interacts with 2 human partners:{Q9UKX2;P35580}

23895 Pathogen[ P03363] interacts with 1 human partners:{Q9UKX2}

23896 [Cluster 2173]GO:0030855+P biological\_process [name] epithelial cell differentiation [def] "The process in which a relatively unspecialized cell acquires specialized features of an epithelial cell, any of the cells making up an epithelium." [GOC

23897 Pathogen[ Q2Q067] interacts with 7 human partners:{O43439;Q9Y4Z2;P12035;P78545;P13645;P19013;P02533}

23898 Pathogen[ P0C214] interacts with 6 human partners:{P12035;P02533;O43439;P78545;P19013;P13645}

23899 Pathogen[ P03346] interacts with 13 human partners:{Q9Y4Z2;Q02535;P19013;O43680;P02533;P13645;Q9NZC4;Q15475;O43439;P12035;P56178;P78545;Q9HBU1}

23900 Pathogen[ Q85601] interacts with 7 human partners:{P02533;Q9Y4Z2;P19013;P78545;O43439;P13645;P12035}

23901 Pathogen[ P14079] interacts with 7 human partners:{O43439;P02533;Q9NZC4;P13645;O43294;P78545;P12035}

23902 Pathogen[ P03383] interacts with 6 human partners:{P02533;P19013;P13645;P12035;P78545;O43439}

23903 Pathogen[ P03410] interacts with 7 human partners:{P13645;O43439;P02533;P12035;P78545;P19013;O43294}

23904 Pathogen[ P14075] interacts with 6 human partners:{P78545;P13645;P12035;O43439;P02533;P19013}

23905 Pathogen[ P0C206] interacts with 9 human partners:{Q9Y4Z2;P13645;P19013;P78545;O43294;Q9NZC4;O43439;P12035;P02533}

23906 Pathogen[ P03363] interacts with 11 human partners:{P56179;P02533;Q9Y4Z2;P13645;O43347;O43439;Q9NZC4;P78545;P12035;P19013;Q9HBU1}

23907 [Cluster 2174]GO:0010771+P biological\_process [name] negative regulation of cell morphogenesis involved in differentiation [def] "Any process that decreases the frequency, rate or extent of cell morphogenesis contributing to cell differentiation. Cell morphogenesis involved in differentiation is the change in form (cell shape and size) that occurs when relatively unspecialized cells acquire specialized structural and/or functional features that characterize the cells, tissues, or organs of the mature organism or some other relatively stable phase of the organism's life history." [GOC

23908 Pathogen[ Q2Q067] interacts with 1 human partners:{P53804}

23909 Pathogen[ P0C214] interacts with 1 human partners:{P53804}

23910 Pathogen[ P03346] interacts with 1 human partners:{P53804}

23911 Pathogen[ Q85601] interacts with 1 human partners:{P53804}

23912 Pathogen[ P14079] interacts with 1 human partners:{P53804}

23913 Pathogen[ P03383] interacts with 1 human partners:{P53804}

23914 Pathogen[ P03410] interacts with 1 human partners:{P53804}

23915 Pathogen[ P14075] interacts with 1 human partners:{P53804}

23916 Pathogen[ P0C206] interacts with 1 human partners:{P53804}

23917 Pathogen[ P03363] interacts with 1 human partners:{P53804}

23918 [Cluster 2175]GO:0051276+P biological\_process [name] chromosome organization [def] "A process that is carried out at the cellular level that results in the assembly, arrangement of constituent parts, or disassembly of chromosomes, structures composed of a very long molecule of DNA and associated proteins that carries hereditary information." [GOC

23919 Pathogen[ Q2Q067] interacts with 15 human partners:{P25490;Q96SD1;P27694;P49959;P01106;O95997;Q5EE01;O95347;Q53HL2;Q13129;Q9NZH4;Q96BT3;Q9NZH5;Q9BRX2;Q14683}

23920 Pathogen[ P0C214] interacts with 15 human partners:{Q96BT3;P49959;Q53HL2;Q96SD1;Q5EE01;Q9BRX2;O95347;Q13129;Q92698;Q9NZH5;Q14683;Q9NZH4;O95997;P27694;P01106}

23921 Pathogen[ P03346] interacts with 19 human partners:{Q9NZH4;Q96SD1;Q13129;P27694;P07992;Q5EE01;P25490;O95347;Q53HL2;Q92698;O95997;P01106;Q9NZH5;Q14683;P51587;Q01954;P49959;Q9BRX2;Q96BT3}

23922 Pathogen[ Q85601] interacts with 18 human partners:{P01106;Q9NZH4;O95347;Q96BT3;Q5EE01;Q13129;P25490;Q53HL2;P49959;Q92698;P27694;Q01954;Q9NZH5;Q14683;Q96SD1;Q9BRX2;P51587;O95997}

23923 Pathogen[ P14079] interacts with 20 human partners:{Q9BRX2;Q5EE01;Q96BT3;Q13129;Q92698;P51587;O95347;Q9BY32;P01106;O95997;Q53HL2;Q96SD1;P27694;Q9UQE7;Q9NZH4;P25490;Q14683;Q9NZH5;P07992;P49917}

23924 Pathogen[ P03383] interacts with 12 human partners:{Q14683;P01106;P27694;Q5EE01;O95347;Q9BRX2;Q96BT3;Q9NZH4;Q53HL2;Q9NZH5;O95997;Q13129}

23925 Pathogen[ P03410] interacts with 20 human partners:{P49959;Q9NZH5;Q92698;P01106;P07992;Q53HL2;Q9UQE7;Q96BT3;Q96SD1;O95997;P254

23926 Pathogen[ P14075] interacts with 12 human partners: {Q14683;Q5EE01;Q9BRX2;O95347;P01106;O95347;Q9NZH5;Q96BT3;P27694;Q53HL2;Q13129;Q9NZH4}

23927 Pathogen[ P0C206] interacts with 23 human partners: {Q9NZH5;P49959;P25490;P51587;O95997;Q96SD1;Q9BY32;P07992;Q5EE01;P49917;Q9UQ E7;O95347;Q14683;Q96BT3;Q53HL2;Q13129;Q9NZH4;P27694;P01106;Q9NTJ3;Q9BRX2;Q92698;Q01954}

23928 Pathogen[ P03363] interacts with 15 human partners: {Q9NZH5;P27694;O95347;P25490;Q53HL2;P01106;Q5EE01;Q13129;Q01954;Q96BT3;Q9BR X2;O95997;Q14683;Q92698;Q9NZH4}

23929 [Cluster 2176]GO:0032863+P biological\_process [name] activation of Rac GTPase activity [def] "Any process that initiates the activity of an inactive GTPase of the Rac family through the replacement of GDP by GTP." [GOC

23930 Pathogen[ Q2Q067] interacts with 1 human partners: {Q14160}

23931 Pathogen[ P0C214] interacts with 1 human partners: {Q14160}

23932 Pathogen[ P03346] interacts with 3 human partners: {Q5VV41;Q14160;Q9H8V3}

23933 Pathogen[ Q85601] interacts with 1 human partners: {Q14160}

23934 Pathogen[ P14079] interacts with 2 human partners: {Q9H8V3;Q5VV41}

23935 Pathogen[ P03383] interacts with 1 human partners: {Q14160}

23936 Pathogen[ P03410] interacts with 3 human partners: {Q14160;Q5VV41;Q9H8V3}

23937 Pathogen[ P14075] interacts with 1 human partners: {Q14160}

23938 Pathogen[ P0C206] interacts with 2 human partners: {Q14160;Q9H8V3}

23939 Pathogen[ P03363] interacts with 2 human partners: {Q5VV41;Q14160}

23940 [Cluster 2177]GO:0007017+P biological\_process [name] microtubule-based process [def] "Any cellular process that depends upon or alters the microtubule cytoskeleton, that part of the cytoskeleton comprising microtubules and their associated proteins." [GOC

23941 Pathogen[ Q2Q067] interacts with 7 human partners: {O75935;P63167;Q9NYZ3;Q13561;P23258;Q96FJ2;Q92845}

23942 Pathogen[ P0C214] interacts with 8 human partners: {O75935;Q99698;P23258;Q92845;Q9NYZ3;Q96FJ2;Q13561;P63167}

23943 Pathogen[ P03346] interacts with 8 human partners: {Q96FJ2;Q99698;P23258;O75935;Q9NYZ3;P63167;Q92845;Q13561}

23944 Pathogen[ Q85601] interacts with 8 human partners: {O75935;O96015;P23258;Q9NYZ3;Q92845;P63167;Q99698;Q13561}

23945 Pathogen[ P14079] interacts with 10 human partners: {Q96FJ2;Q9NYZ3;P68363;P23258;Q13561;P63167;Q92845;O96015;Q99698;O75935}

23946 Pathogen[ P03383] interacts with 6 human partners: {Q96FJ2;Q9NYZ3;O75935;Q92845;Q13561;P63167}

23947 Pathogen[ P03410] interacts with 10 human partners: {Q13561;Q92845;P63167;Q9NYZ3;Q9BVA1;O75935;P23258;P68363;Q99698;O96015}

23948 Pathogen[ P14075] interacts with 6 human partners: {Q92845;Q13561;Q96FJ2;O75935;Q9NYZ3;P63167}

23949 Pathogen[ P0C206] interacts with 8 human partners: {Q92845;P63167;Q99698;P23258;Q13561;Q9NYZ3;O75935;O96015}

23950 Pathogen[ P03363] interacts with 11 human partners: {Q92845;P63167;Q13561;Q9HC35;P68363;Q13748;Q99698;O75935;Q9NYZ3;P23258;Q96F J2}

23951 [Cluster 2178]GO:0042475+P biological\_process [name] odontogenesis of dentin-containing tooth [def] "The process whose specific outcome is the progression of a dentin-containing tooth over time, from its formation to the mature structure. A dentin-containing tooth is a hard, bony organ borne on the jaw or other bone of a vertebrate, and is composed mainly of dentin, a dense calcified substance, covered by a layer of enamel." [GOC

23952 Pathogen[ Q2Q067] interacts with 5 human partners: {O96004;Q13547;Q92769;Q07687;O15111}

23953 Pathogen[ P0C214] interacts with 5 human partners: {O15111;Q13547;Q07687;Q92769;O96004}

23954 Pathogen[ P03346] interacts with 7 human partners: {O15111;P56177;O96004;Q92769;Q13547;Q8TAU0;Q68G74}

23955 Pathogen[ Q85601] interacts with 5 human partners: {O15111;O96004;Q92769;Q13547;Q07687}

23956 Pathogen[ P14079] interacts with 6 human partners: {A1E959;O96004;Q92769;Q8WWZ3;Q07687;P28360}

23957 Pathogen[ P03383] interacts with 5 human partners: {Q07687;O15111;O96004;Q92769;Q13547}

23958 Pathogen[ P03410] interacts with 6 human partners: {O96004;O15111;Q07687;Q92769;Q13547;A1E959}

23959 Pathogen[ P14075] interacts with 5 human partners: {O15111;Q13547;Q07687;O96004;Q92769}

23960 Pathogen[ P0C206] interacts with 8 human partners: {Q07687;Q92769;Q13547;O96004;Q68G74;O15111;Q8TAU0;P56177}

23961 Pathogen[ P03363] interacts with 7 human partners: {P56177;O15111;P19883;O96004;Q13547;Q8TAU0;Q07687}

23962 [Cluster 2179]GO:0000387+P biological\_process [name] spliceosomal snRNP assembly

[def] "The aggregation, arrangement and bonding together of one or more snRNA and multiple protein components to form a ribonucleoprotein complex that is involved in formation of the spliceosome." [GOC

23963 Pathogen[ Q2Q067] interacts with 26 human  
partners: {O43290;O14744;Q9NVM4;P62318;Q9BQA1;P54105;P62314;Q9UHI6;P62304;Q8WXD5;P14678;Q96RS0;Q8TEQ6;P57678;Q09161;P52298;P62316;Q9NWZ8;P62306;Q9H840;Q16637;P62308;O14893;P09234;Q9H814;O95149}

23964 Pathogen[ P0C214] interacts with 23 human  
partners: {Q16637;P62316;Q09161;Q9H814;P14678;P62306;Q9NVM4;P57678;Q8WXD5;O95149;P62308;P52298;P62314;Q8TEQ6;Q9UHI6;P62318;Q96RS0;Q9H840;P62304;O14893;O43290;P09234;Q9NWZ8}

23965 Pathogen[ P03346] interacts with 26 human  
partners: {P54105;Q09161;O43290;O95149;Q9BQA1;P62304;Q9H814;Q8WXD5;O14744;P52298;Q16637;P62318;Q9NWZ8;P62306;Q9UHI6;Q9NVM4;Q96RS0;Q8TEQ6;P62314;P14678;P57678;O14893;P62316;P09234;P62308;Q9H840}

23966 Pathogen[ Q85601] interacts with 25 human  
partners: {P09234;Q9BQA1;O95149;P62304;Q9NVM4;O14744;P62316;Q09161;P14678;Q9H814;P62314;P62306;Q8TEQ6;P62318;Q9NWZ8;Q9UHI6;P54105;Q96RS0;O43290;O14893;P62308;P52298;Q16637;Q8WXD5;Q9H840}

23967 Pathogen[ P14079] interacts with 26 human  
partners: {P57678;Q96RS0;Q8TEQ6;O14893;Q9NVM4;P52298;Q9H840;Q9UHI6;P62314;O95149;O43290;P62306;P14678;Q9NWZ8;O14744;Q16637;Q9BQA1;P62308;P62304;P62316;P09234;P54105;P62318;Q8WXD5;Q09161;Q9H814}

23968 Pathogen[ P03383] interacts with 25 human  
partners: {Q9BQA1;Q9H840;P62318;O43290;P54105;P62316;P62304;Q9UHI6;Q8WXD5;O14744;Q09161;Q16637;P62314;Q8TEQ6;O14893;O95149;P14678;Q96RS0;P52298;P57678;P62308;Q9NWZ8;P09234;Q9H814;P62306}

23969 Pathogen[ P03410] interacts with 26 human  
partners: {Q96RS0;Q8WXD5;O14893;P62304;Q9H840;P62306;P54105;Q8TEQ6;Q9NVM4;Q9BQA1;P62308;P14678;P62316;Q9H814;P52298;Q16637;P62314;P09234;P57678;Q09161;O14744;O43290;Q9UHI6;O95149;Q9NWZ8;P62318}

23970 Pathogen[ P14075] interacts with 25 human  
partners: {Q8TEQ6;P62304;P54105;Q09161;P62316;Q9H814;Q8WXD5;Q9BQA1;P57678;P09234;Q9H840;P62306;P62308;Q16637;Q9UHI6;P62318;O14744;Q96RS0;Q9NWZ8;O95149;P14678;O14893;P62314;O43290;P52298}

23971 Pathogen[ P0C206] interacts with 26 human  
partners: {Q96RS0;P14678;O95149;P52298;Q9H840;Q9BQA1;Q09161;Q8WXD5;P54105;P62304;O14744;Q8TEQ6;P62314;P62316;O43290;Q9H814;Q9NVM4;P62318;O14893;P62306;Q9UHI6;Q16637;P62308;P09234;Q9NWZ8;P57678}

23972 Pathogen[ P03363] interacts with 26 human  
partners: {P62314;Q96RS0;O14744;Q9UHI6;Q9NWZ8;P62318;P62304;P09234;O14893;P62306;P54105;P57678;Q9BQA1;Q9NVM4;P62316;Q8WXD5;O43290;P52298;Q9H840;Q8TEQ6;P62308;Q16637;P14678;O95149;Q9H814;Q09161}

23973 [Cluster 2180]GO:0030041+P biological\_process [name] actin filament polymerization [def] "Assembly of actin filaments by the addition of actin monomers to a filament." [GOC

23974 Pathogen[ Q2Q067] interacts with 5 human  
partners: {Q92558;P06396;P59998;P42768;P63000}

23975 Pathogen[ P0C214] interacts with 5 human  
partners: {P63000;P06396;P59998;Q92558;P42768}

23976 Pathogen[ P03346] interacts with 5 human  
partners: {P42768;P59998;Q92558;P06396;P63000}

23977 Pathogen[ Q85601] interacts with 5 human  
partners: {P06396;Q92558;P63000;P59998;P42768}

23978 Pathogen[ P14079] interacts with 6 human  
partners: {P09327;Q92558;O60610;P59998;Q9UPY6;P42768}

23979 Pathogen[ P03383] interacts with 5 human  
partners: {P63000;Q92558;P59998;P42768;P06396}

23980 Pathogen[ P03410] interacts with 7 human  
partners: {Q9UPY6;O60610;P63000;P06396;Q92558;P59998;P42768}

23981 Pathogen[ P14075] interacts with 5 human  
partners: {P42768;P06396;P63000;Q92558;P59998}

23982 Pathogen[ P0C206] interacts with 5 human  
partners: {P06396;P59998;P63000;Q92558;P42768}

23983 Pathogen[ P03363] interacts with 6 human  
partners: {Q9UPY6;P42768;Q92558;P63000;P06396;P59998}

23984 [Cluster 2181]GO:0007059+P biological\_process [name] chromosome segregation [def] "The process in which genetic material, in the form of chromosomes, is organized into specific structures and then physically separated and apportioned to two or more sets. In eukaryotes, chromosome segregation begins with the alignment of chromosomes at the metaphase plate, includes chromosome separation, and ends when chromosomes have completed movement to the spindle poles." [GOC

23985 Pathogen[ Q2Q067] interacts with 48 human  
partners: {P49454;P30153;Q9Y6X3;Q96EE3;P18754;O95997;Q14674;Q96R06;Q6P1K2;Q9HBM1;Q5EE01;P11387;Q9H3R5;Q5FBB7;Q03188;Q96SN8;O43684;P63279;Q8NFH4;P11388;Q9NQS7;Q9Y448;Q96BT3;Q9BZD4;Q9BV86;Q9H410;Q8NFH3;O60216;Q9UJ98;Q8IX90;Q8NG31;Q93008;O60885;Q96T76;Q96B



23986 D8;Q9Y3D0;Q96IY1;Q86YI8;Q8WVM7;Q9BU64;O14777;Q562F6;Q8NCD3;Q8N3U4;Q9H081;Q8WVK7;P49711;O15392} Pathogen[ P0C214] interacts with 49 human partners: {Q9H081;O43684;Q96BT3;P30153;Q96SN8;Q96R06;Q5EE01;Q9UJ98;Q96EE3;P63279;Q6P1K2;Q562F6;Q93008;Q03188;Q8NCD3;Q96BD8;Q9HBM1;Q8NFH3;P11388;Q86YI8;Q9H5X1;P11387;Q9H410;O15392;Q9H3R5;P49711;Q8IX90;Q8N3U4;Q8WVM7;Q8NG31;O60885;Q5FBB7;Q9Y6X3;Q9NQS7;O95997;Q9Y3D0;Q8NFH4;Q96IY1;P49454;P18754;Q9Y448;O60216;Q9BZD4;Q9BV86;Q96T76;Q9BU64;Q8WVK7;O14777;Q14674}

23987 Pathogen[ P03346] interacts with 48 human partners: {Q5FBB7;Q8NFH4;O15392;O43684;Q96EE3;Q8N3U4;P11388;Q93008;Q96R06;Q5EE01;P18754;P63279;Q96IY1;Q8NFH3;O95997;Q8NCD3;P30153;O14777;Q9UJ98;Q96SN8;P49711;Q9NQS7;Q9Y6X3;Q562F6;Q9H081;Q9HBM1;Q9H410;Q9BU64;Q8WVM7;Q03188;Q8IX90;O60885;Q9Y448;Q9BV86;Q86YI8;Q8NG31;Q9H3R5;Q14674;Q6P1K2;O60216;Q96BD8;Q9BZD4;Q9Y3D0;Q96BT3;Q96T76;Q8WVK7;P49454;P11387}

23988 Pathogen[ Q85601] interacts with 50 human partners: {P49454;Q96T76;Q8NFH4;Q8NFH3;Q03188;Q96EE3;Q9NQS7;Q9Y3D0;Q9H081;Q96SN8;Q96BT3;Q5EE01;Q9BV86;P30153;Q8NG31;O15392;Q9H3R5;Q14674;O60216;Q8WVM7;P49711;Q93008;Q96R06;P63279;Q8NCD3;P11387;Q9Y448;Q562F6;Q9UJ98;Q9BU64;Q9BZD4;Q96BD8;P11388;Q86YI8;Q9H410;Q8IX90;Q8N3U4;O60885;Q8WVK7;Q96IY1;P18754;Q6P1K2;Q9GZM8;Q9Y6X3;O14777;O43684;Q9HBM1;Q5FBB7;P51955;O95997}

23989 Pathogen[ P14079] interacts with 50 human partners: {P11388;Q96IY1;Q03188;Q5EE01;P63279;Q8IX90;Q96BT3;Q9HBM1;Q96R06;Q9BZD4;Q9BV86;O15392;O60216;Q8NG31;Q14674;Q9Y3D0;Q9Y448;Q5FBB7;Q9H410;Q9H5X1;Q8N3U4;Q99661;P51955;Q9UJ98;Q562F6;Q8WVK7;Q8NFH3;Q96EE3;Q86YI8;Q9H3R5;Q9GZM8;O95997;Q8NFH4;Q9NQS7;Q8NCD3;Q9Y6X3;O60885;P49454;Q9BU64;P30153;Q96BD8;Q969P6;Q96SN8;Q96T76;P49711;P18754;O14777;O43684;Q6P1K2;Q9H081}

23990 Pathogen[ P03383] interacts with 44 human partners: {Q96EE3;Q9NQS7;Q03188;P49454;Q8NFH4;Q96T76;Q96BD8;Q8N3U4;P49711;Q5FBB7;Q96SN8;Q9UJ98;Q5EE01;Q9Y6X3;P30153;P11387;O60216;Q9Y3D0;Q96BT3;Q96R06;Q9BU64;Q14674;O43684;P18754;Q9BZD4;Q8WVK7;Q562F6;Q86YI8;Q9HBM1;Q9H410;Q9H081;Q8IX90;Q96IY1;Q8NCD3;O60885;Q8NG31;Q6P1K2;O95997;Q9Y448;O14777;Q9H3R5;P63279;Q8NFH3;Q8WVM7}

23991 Pathogen[ P03410] interacts with 49 human partners: {Q03188;Q8IX90;O15392;Q96T76;Q9H3R5;O43684;O60885;Q9H410;Q8NG31;Q9GZM8;Q8NFH4;Q96BT3;P05141;Q96SN8;Q9H5X1;Q562F6;Q96R06;O95997;Q8NCD3;O60216;Q14674;Q5EE01;P49454;Q96IY1;Q9Y448;Q6P1K2;P11387;Q9BZD4;Q8WVK7;Q9HBM1;Q96EE3;Q9UJ98;Q8N3U4;P49711;P11388;Q5FBB7;P30153;P63279;Q8WVM7;Q9BV86;Q9H081;P18754;Q96BD8;Q9Y3D0;Q8NFH3;O14777;Q9BU64;Q9NQS7;Q86YI8}

23992 Pathogen[ P14075] interacts with 44 human partners: {P11387;Q9H081;Q562F6;Q9NQS7;Q9Y6X3;Q8WVM7;Q96R06;Q8WVK7;Q5EE01;Q96IY1;O95997;O43684;Q96SN8;Q96BD8;P63279;O14777;Q9H3R5;Q9UJ98;Q9BU64;Q96EE3;Q96BT3;Q86YI8;Q5FBB7;Q9H410;P30153;Q8IX90;Q8NFH3;O60885;Q8NCD3;P49711;Q14674;P18754;Q9HBM1;Q6P1K2;Q03188;Q8NG31;P49454;Q8NFH4;Q9Y448;O60216;Q9BZD4;Q96T76;Q8N3U4;Q9Y3D0}

23993 Pathogen[ P0C206] interacts with 49 human partners: {Q96EE3;Q9HBM1;O60216;Q96SN8;Q9BV86;P30153;Q93008;P18754;P51955;O95997;Q9H081;O14777;Q9Y448;Q9BZD4;Q9H410;Q9UJ98;P49454;Q9BU64;Q9Y6X3;Q9GZM8;Q8IX90;Q5EE01;Q6P1K2;Q96BD8;Q9H3R5;Q9Y3D0;Q8NCD3;O60885;P49711;Q96IY1;Q96BT3;Q5FBB7;O15392;Q96T76;Q8NFH4;Q86YI8;Q562F6;Q14674;Q8N3U4;P11388;P11387;O43684;Q9NQS7;Q8NFH3;Q8WVM7;Q8NG31;Q9H5X1;Q8WVK7;Q03188}

23994 Pathogen[ P03363] interacts with 43 human partners: {Q9BZD4;Q9UJ98;P49454;Q96IY1;Q6P1K2;Q9H081;Q8NFH4;Q96BD8;P11387;Q9Y3D0;Q8NFH3;Q9BV86;Q8WVK7;Q9H410;Q8IX90;P49711;Q5FBB7;O60885;Q5EE01;Q96R06;O43684;Q96T76;Q9NQS7;Q8WVM7;Q9HBM1;Q03188;Q8NG31;Q8NCD3;P63279;Q14674;Q96BT3;Q9H3R5;Q8N3U4;O14777;O95997;Q9Y448;Q9Y6X3;Q562F6;P30153;P18754;Q93008;O60216;Q96SN8}

23995 [Cluster 2182]GO:0090162+P biological\_process [name] establishment of epithelial cell polarity [def] "The specification and formation of anisotropic intracellular organization of an epithelial cell." [GOC]

23996 Pathogen[ Q2Q067] interacts with 1 human partners: {Q8TES7}

23997 Pathogen[ P0C214] interacts with 1 human partners: {Q8TES7}

23998 Pathogen[ P03346] interacts with 3 human partners: {Q15438;Q8TEW0;Q8TES7}

23999 Pathogen[ Q85601] interacts with 1 human partners: {Q8TES7}

24000 Pathogen[ P14079] interacts with 3 human partners: {Q8TEW0;Q8TES7;Q15438}

24001 Pathogen[ P03383] interacts with 1 human partners: {Q8TES7}

24002 Pathogen[ P03410] interacts with 3 human partners: {Q15438;Q8TEW0;Q8TES7}

24003 Pathogen[ P14075] interacts with 1 human partners: {Q8TES7}

24004 Pathogen[ P0C206] interacts with 2 human partners: {Q8TEW0;Q8TES7}

24005 Pathogen[ P03363] interacts with 3 human partners: {Q15438;Q8TES7;Q9P2Q2}

24006 [Cluster 2183]GO:0046600+P biological\_process [name] negative regulation of centriole replication [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of centriole replication." [GOC]

24007 Pathogen[ Q2Q067] interacts with 1 human partners: {Q96SN8}

24008 Pathogen[ P0C214] interacts with 1 human partners: {Q96SN8}

24009 Pathogen[ P03346] interacts with 1 human partners: {Q96SN8}

24010 Pathogen[ Q85601] interacts with 1 human partners: {Q96SN8}

24011 Pathogen[ P14079] interacts with 1 human partners: {Q96SN8}

24012 Pathogen[ P03383] interacts with 1 human partners: {Q96SN8}

24013 Pathogen[ P03410] interacts with 1 human partners: {Q96SN8}

24014 Pathogen[ P14075] interacts with 1 human partners:{Q96SN8}  
24015 Pathogen[ P0C206] interacts with 1 human partners:{Q96SN8}  
24016 Pathogen[ P03363] interacts with 1 human partners:{Q96SN8}  
24017 [Cluster 2184]GO:0045955+P biological\_process [name] negative regulation of calcium ion-frequency exocytosis [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of calcium ion-dependent exocytosis." [GOC  
24018 Pathogen[ Q2Q067] interacts with 2 human partners:{000186;Q13127}  
24019 Pathogen[ P0C214] interacts with 2 human partners:{000186;Q13127}  
24020 Pathogen[ P03346] interacts with 2 human partners:{000186;Q13127}  
24021 Pathogen[ Q85601] interacts with 2 human partners:{000186;Q13127}  
24022 Pathogen[ P14079] interacts with 2 human partners:{000186;Q13127}  
24023 Pathogen[ P03383] interacts with 2 human partners:{000186;Q13127}  
24024 Pathogen[ P03410] interacts with 2 human partners:{Q13127;000186}  
24025 Pathogen[ P14075] interacts with 2 human partners:{000186;Q13127}  
24026 Pathogen[ P0C206] interacts with 2 human partners:{Q13127;000186}  
24027 Pathogen[ P03363] interacts with 2 human partners:{Q13127;000186}  
24028 [Cluster 2185]GO:0030836+P biological\_process [name] positive regulation of actin filament depolymerization [def] "Any process that activates or increases the frequency, rate or extent of actin depolymerization." [GOC  
24029 Pathogen[ Q2Q067] interacts with 1 human partners:{P23528}  
24030 Pathogen[ P0C214] interacts with 1 human partners:{Q96GD0}  
24031 Pathogen[ P03346] interacts with 1 human partners:{P23528}  
24032 Pathogen[ Q85601] interacts with 1 human partners:{P23528}  
24033 Pathogen[ P14079] interacts with 2 human partners:{Q96GD0;P23528}  
24034 Pathogen[ P03383] interacts with 1 human partners:{P23528}  
24035 Pathogen[ P03410] interacts with 2 human partners:{Q96GD0;P23528}  
24036 Pathogen[ P14075] interacts with 1 human partners:{P23528}  
24037 Pathogen[ P0C206] interacts with 2 human partners:{Q96GD0;P23528}  
24038 Pathogen[ P03363] interacts with 1 human partners:{P23528}  
24039 [Cluster 2186]GO:0042254+P biological\_process [name] ribosome biogenesis [def] "A cellular process that results in the biosynthesis of constituent macromolecules, assembly, and arrangement of constituent parts of ribosome subunits\_ includes transport to the sites of protein synthesis." [GOC  
24040 Pathogen[ Q2Q067] interacts with 53 human partners:{Q9H583;Q9NWK9;Q8NHW5;Q9BZE4;Q9BVP2;Q9Y324;P55769;Q5TAP6;Q9GZL7;Q9NVU7;Q9UJ K0;Q9NVN8;Q9NV31;Q9NRR4;Q2NL82;O00566;Q13601;P56537;Q96G21;Q8TDN6;Q9NY61;O75683;Q96H R8;O00541;Q9NPE3;Q9UHA3;Q92979;Q14137;Q9Y3A5;Q9Y221;Q15050;Q9H9Y2;O60832;P62269;Q998 48;P62424;Q96EU6;Q9BVJ6;O00567;Q9Y2P8;P78316;Q9H9L3;Q9UKD2;Q9NY12;Q9Y2X3;Q13895;Q9BR U9;Q8NE71;Q14331;P05388;Q8IUF8;Q9NYV6;O95478}  
24041 Pathogen[ P0C214] interacts with 56 human partners:{O75683;Q9BVJ6;Q8NHW5;Q9NWK9;Q9UJK0;Q9NV31;Q14331;Q9NPE3;O95478;P05388;Q2NL 82;O00541;Q96EU6;Q9GZL7;O00567;Q96G21;Q15050;Q9NY12;Q9NY61;P78316;Q8TDN6;Q9H089;Q9BR U9;Q9Y2P8;Q8NE71;A4D1E9;Q9Y221;P55769;Q14137;Q92979;Q9Y324;Q9UHA3;P62269;Q9NVU7;Q998 48;Q9H9L3;Q9NRR4;Q9NYV6;Q5TAP6;O60832;Q9UKD2;Q13895;Q9H9Y2;P62424;Q9NVN8;Q9BZE4;Q8IU F8;O00566;Q13601;Q9Y3A5;P56537;Q9Y2X3;Q9H583;Q9NV06;Q9BVP2;Q96HR8}  
24042 Pathogen[ P03346] interacts with 56 human partners:{Q9BVJ6;Q8NHW5;Q15050;Q13895;Q92979;Q9Y324;O00567;Q5TAP6;Q9UKD2;Q9BZE4;Q9H9 L3;O00541;Q9GZL7;P56537;Q9NWK9;Q9H583;Q96G21;O60832;P62424;O00566;Q9NV06;Q9Y2X3;Q9Y2 21;Q9Y2P8;Q9NX24;Q96EU6;Q9BRU9;Q9NV31;P05388;P78316;P62269;Q9NVU7;Q99848;Q9NY61;P557 69;O75683;Q2NL82;Q9NYV6;Q8TDN6;Q8NE71;Q14137;Q9NRR4;Q9NPE3;Q8IUF8;Q13601;Q9NY12;Q96H R8;Q9NVN8;O95478;Q9UJK0;Q9H9Y2;Q7Z7H8;Q9UHA3;Q9BVP2;Q9Y3A5;Q14331}  
24043 Pathogen[ Q85601] interacts with 55 human partners:{Q9NV31;Q8NHW5;Q9BRU9;Q9UJK0;O00541;Q9Y324;P05388;Q9BZE4;Q9NY61;Q96HR8;Q143 31;Q92979;Q96EU6;Q9H9Y2;Q9BVJ6;Q9Y3A5;Q8TDN6;P56537;Q9NRR4;Q9NWK9;Q96G21;P62424;P557 69;Q9H089;Q9UHA3;Q9Y221;Q9UKD2;Q15050;P62269;Q99848;Q9Y2P8;O00566;Q95478;Q13601;Q8NE 71;Q9H9L3;Q9NYV6;A4D1E9;Q9GZL7;Q9NV06;Q9NPE3;O00567;Q8IUF8;Q13895;Q9NY12;Q9NVN8;Q141 37;Q9H583;Q9Y2X3;O75683;Q9BVP2;O60832;Q2NL82;P78316;Q9NVU7}  
24044 Pathogen[ P14079] interacts with 59 human partners:{Q92979;Q9NV31;Q9BVP2;Q9NYV6;Q9NPE3;Q9Y2X3;Q9H4K7;Q9UHA3;Q2NL82;Q9NVU7;Q9NY 61;P56537;Q9BRU9;O60832;Q9GZL7;A4D1E9;Q15050;Q9Y3A5;Q9UJK0;Q96HR8;Q8TDN6;Q5TAP6;Q9BV J6;O00567;Q9BZE4;Q9NWK9;O00566;Q9NV06;Q8NC60;Q14692;P62424;Q9H583;Q9NY12;Q8NE71;Q9H9 L3;Q9NRR4;P78316;Q9Y324;O95478;Q99848;Q13601;Q9H9Y2;Q7Z7H8;Q14331;O00541;P55769;Q141 37;Q96G21;Q9Y2P8;Q13895;Q9UKD2;Q9Y221;P62269;O75616;O75683;P05388;Q9H089;Q96EU6;Q8NH W5}  
24045 Pathogen[ P03383] interacts with 51 human partners:{Q9NRR4;P05388;O95478;Q8NHW5;Q9NY61;Q13601;Q9Y324;Q9NYV6;Q9BVJ6;Q9Y2P8;Q9NV N8;O00567;Q5TAP6;Q9NWK9;O00541;Q8NE71;P56537;P62424;Q9BZE4;Q14331;Q9NPE3;Q15050;O756 83;Q96G21;Q8IUF8;Q13895;Q2NL82;Q9UJK0;Q9H583;Q9Y221;Q9NV31;Q9H9L3;P78316;P62269;Q998 48;Q9NY12;Q9Y3A5;Q96HR8;Q9BRU9;Q9GZL7;Q9Y2X3;P55769;Q96EU6;Q92979;Q8TDN6;Q14137;Q9BV P2;O60832;O00566;Q9NVU7;A4D1E9}  
24046 Pathogen[ P03410] interacts with 61 human partners:{Q9H4K7;Q99848;Q9NVN8;Q8NHW5;O75683;P78316;Q8NE71;Q9UJK0;Q15050;Q9NV06;P053 88;Q96G21;Q14692;Q9NY61;P62269;P55769;O60832;Q8TDN6;Q14137;Q9GZL7;Q8NC60;Q5TAP6;Q9NR R4;Q13895;Q9Y2X3;Q9BRU9;Q92979;Q9NYV6;Q9NX24;O00567;Q9H089;Q9NVU7;Q9UK D2;Q9BVP2;A4D1E9;Q9NPE3;Q9NWK9;Q9BVJ6;O00541;Q96EU6;Q96HR8;P62424;Q9Y324;Q13601;O954 78;Q9NV31;Q9H583;Q9Y2P8;Q2NL82;Q7Z7H8;Q9UHA3;P56537;Q9Y3A5;Q9Y221;Q9BZE4;Q9H9L3;O005

66;Q14331;O75616}  
24047 Pathogen[ P14075] interacts with 52 human  
partners:{O00566;Q9H583;P56537;Q92979;Q2NL82;Q9NYV6;A4D1E9;Q9GZL7;Q9NY61;Q9NVN8;O005  
41;P05388;Q13601;O00567;Q9NVU7;Q9BRU9;P78316;Q96HR8;Q9Y221;Q9Y2P8;Q9NPE3;O75683;P557  
69;Q9NV31;P62269;Q99848;Q8NE71;Q9UJK0;Q9NRR4;Q96EU6;O60832;Q9H9Y2;Q9Y324;Q96G21;Q9H9  
L3;Q9BZE4;O95478;Q14137;Q8IUF8;Q7Z7H8;Q15050;Q14331;Q9BVJ6;Q8TDN6;Q9NY12;P62424;Q9Y2  
X3;Q9BVP2;Q9NWK9;Q5TAP6;Q13895;Q9Y3A5}  
24048 Pathogen[ POC206] interacts with 58 human  
partners:{O75683;Q9NPE3;Q99848;Q9NWK9;Q8NHW5;Q13601;Q96G21;O95478;Q9Y324;Q9NVN8;Q96E  
U6;Q14137;Q9BVP2;Q9NY12;P55769;Q14692;Q9NVU7;Q8IUF8;Q9GZL7;Q9H9L3;Q7Z7H8;O00567;Q138  
95;Q15050;Q8TDN6;P78316;Q9H583;Q9Y2X3;Q9H089;Q92979;Q9NV06;P05388;Q9UJK0;Q9BRU9;P565  
37;Q9NRR4;Q9Y2P8;O60832;Q9BZE4;Q96HR8;O00541;Q8NE71;A4D1E9;Q9NV31;Q9Y3A5;Q9UKD2;Q9H9  
Y2;Q9UHA3;Q14331;P62269;Q9Y221;Q2NL82;Q9NY61;Q9NYV6;Q5TAP6;O00566;P62424;Q9BVJ6}  
24049 Pathogen[ P03363] interacts with 56 human  
partners:{O60832;Q9NX24;Q92979;Q9NVN8;Q8NHW5;Q9BVJ6;Q9BRU9;Q96EU6;Q9Y2X3;Q9GZL7;Q150  
50;O75683;P05388;Q99848;Q9Y324;Q14331;O95478;Q9H9Y2;Q9NVU7;Q9NY12;Q9Y2P8;Q9Y3A5;Q9BZ  
E4;O00567;Q9NV31;Q13601;Q8IUF8;Q9UJK0;Q13895;Q9NY61;Q9NYV6;Q9NPE3;P56537;Q9H9L3;Q5TA  
P6;Q14137;O00566;Q2NL82;Q96G21;Q9NRR4;Q7Z7H8;Q9H583;Q8NE71;Q9BVP2;P62424;P55769;Q9UK  
D2;Q9UHA3;P78316;Q9NWK9;O00541;Q9NV06;Q96HR8;P62269;Q9Y221;Q8TDN6}  
24050 [Cluster 2187]GO:0030032+P biological\_process [name] lamellipodium assembly [def]  
"Formation of a lamellipodium, a thin sheetlike extension of the surface of a migrating  
cell." [GOC  
24051 Pathogen[ Q2Q067] interacts with 5 human  
partners:{O43639;Q96IF1;Q9BW27;P16333;P63000}  
24052 Pathogen[ POC214] interacts with 5 human  
partners:{P63000;O43639;Q9BW27;P16333;Q5VZK9}  
24053 Pathogen[ P03346] interacts with 7 human  
partners:{O43639;Q96IF1;Q9NRF2;P16333;Q9BW27;P63000;Q5VZK9}  
24054 Pathogen[ Q85601] interacts with 6 human  
partners:{P16333;P63000;O43639;Q9BW27;Q5VZK9;Q96IF1}  
24055 Pathogen[ P14079] interacts with 6 human  
partners:{Q9BW27;P47756;Q96IF1;P16333;O43639;P49023}  
24056 Pathogen[ P03383] interacts with 3 human partners:{P63000;Q9BW27;P16333}  
24057 Pathogen[ P03410] interacts with 7 human  
partners:{Q9BW27;P47756;P63000;O43639;P16333;Q96IF1;Q5VZK9}  
24058 Pathogen[ P14075] interacts with 3 human partners:{P16333;Q9BW27;P63000}  
24059 Pathogen[ POC206] interacts with 7 human  
partners:{P47756;Q96IF1;P63000;Q5VZK9;P16333;O43639;Q9BW27}  
24060 Pathogen[ P03363] interacts with 7 human  
partners:{Q5VZK9;O43639;P63000;Q7L576;Q96IF1;P16333;Q9BW27}  
24061 [Cluster 2188]GO:0051782+P biological\_process [name] negative regulation of cell  
division [def] "Any process that stops, prevents, or reduces the frequency, rate or  
extent of cell division." [GOC  
24062 Pathogen[ Q2Q067] interacts with 2 human partners:{P01106;Q9H3M7}  
24063 Pathogen[ POC214] interacts with 2 human partners:{Q9H3M7;P01106}  
24064 Pathogen[ P03346] interacts with 2 human partners:{P01106;Q9H3M7}  
24065 Pathogen[ Q85601] interacts with 2 human partners:{P01106;Q9H3M7}  
24066 Pathogen[ P14079] interacts with 2 human partners:{P01106;Q9H3M7}  
24067 Pathogen[ P03383] interacts with 2 human partners:{P01106;Q9H3M7}  
24068 Pathogen[ P03410] interacts with 2 human partners:{P01106;Q9H3M7}  
24069 Pathogen[ P14075] interacts with 2 human partners:{P01106;Q9H3M7}  
24070 Pathogen[ POC206] interacts with 2 human partners:{Q9H3M7;P01106}  
24071 Pathogen[ P03363] interacts with 2 human partners:{Q9H3M7;P01106}  
24072 [Cluster 2189]GO:0060287+P biological\_process [name] epithelial cilium movement  
involved in determination of left/right asymmetry [def] "The movement of cilia of  
epithelial cells resulting in the transport of signals which determine asymmetry in an  
organism's body plan with respect to the left and right halves." [GOC  
24073 Pathogen[ Q2Q067] interacts with 2 human partners:{P48380;O75665}  
24074 Pathogen[ POC214] interacts with 2 human partners:{O75665;P48380}  
24075 Pathogen[ P03346] interacts with 2 human partners:{P48380;O75665}  
24076 Pathogen[ Q85601] interacts with 2 human partners:{O75665;P48380}  
24077 Pathogen[ P14079] interacts with 3 human partners:{P48380;Q9UFE4;O75665}  
24078 Pathogen[ P03383] interacts with 2 human partners:{P48380;O75665}  
24079 Pathogen[ P03410] interacts with 3 human partners:{O75665;Q9UFE4;P48380}  
24080 Pathogen[ P14075] interacts with 2 human partners:{P48380;O75665}  
24081 Pathogen[ POC206] interacts with 3 human partners:{P48380;Q9UFE4;O75665}  
24082 Pathogen[ P03363] interacts with 2 human partners:{P48380;O75665}  
24083 [Cluster 2190]GO:0030071+P biological\_process [name] regulation of mitotic  
metaphase/anaphase transition [def] "Any process that modulates the frequency, rate or  
extent of the onset of anaphase (chromosome movement) in the mitotic cell cycle." [GOC  
24084 Pathogen[ Q2Q067] interacts with 4 human partners:{Q9UJX5;Q9UJX2;Q9UM13;Q8NHZ8}  
24085 Pathogen[ POC214] interacts with 4 human partners:{Q9UJX5;Q9UJX2;Q8NHZ8;Q9UM13}  
24086 Pathogen[ P03346] interacts with 4 human partners:{Q9UM13;Q9UJX5;Q9UJX2;Q8NHZ8}  
24087 Pathogen[ Q85601] interacts with 4 human partners:{Q9UJX2;Q8NHZ8;Q9UJX5;Q9UM13}  
24088 Pathogen[ P14079] interacts with 3 human partners:{Q9UJX5;Q8NHZ8;Q9UM13}  
24089 Pathogen[ P03383] interacts with 4 human partners:{Q8NHZ8;Q9UM13;Q9UJX5;Q9UJX2}

24090 Pathogen[ P03410] interacts with 3 human partners:{Q9UM13;Q8NHZ8;Q9UJX5}  
24091 Pathogen[ P14075] interacts with 4 human partners:{Q9UJX2;Q8NHZ8;Q9UJX5;Q9UM13}  
24092 Pathogen[ P0C206] interacts with 4 human partners:{Q9UJX5;Q9UJX2;Q9UM13;Q8NHZ8}  
24093 Pathogen[ P03363] interacts with 4 human partners:{Q9UJX2;Q8NHZ8;Q9UJX5;Q9UM13}  
24094 [Cluster 2191]GO:0000290+P biological\_process [name] deadenylation-dependent decapping of nuclear-transcribed mRNA [def] "Cleavage of the 5'-cap of a nuclear mRNA triggered by shortening of the poly(A) tail to below a minimum functional length." [GOC  
24095 Pathogen[ Q2Q067] interacts with 2 human partners:{Q96C86;Q86TB9}  
24096 Pathogen[ P0C214] interacts with 2 human partners:{Q96C86;Q86TB9}  
24097 Pathogen[ P03346] interacts with 2 human partners:{Q96C86;Q86TB9}  
24098 Pathogen[ Q85601] interacts with 2 human partners:{Q86TB9;Q96C86}  
24099 Pathogen[ P14079] interacts with 2 human partners:{Q86TB9;Q96C86}  
24100 Pathogen[ P03383] interacts with 2 human partners:{Q86TB9;Q96C86}  
24101 Pathogen[ P03410] interacts with 2 human partners:{Q86TB9;Q96C86}  
24102 Pathogen[ P14075] interacts with 2 human partners:{Q86TB9;Q96C86}  
24103 Pathogen[ P0C206] interacts with 2 human partners:{Q86TB9;Q96C86}  
24104 Pathogen[ P03363] interacts with 2 human partners:{Q86TB9;Q96C86}  
24105 [Cluster 2192]GO:2001237+P biological\_process [name] negative regulation of extrinsic apoptotic signaling pathway [def] "Any process that stops, prevents or reduces the frequency, rate or extent of extrinsic apoptotic signaling pathway." [GOC  
24106 Pathogen[ Q2Q067] interacts with 5 human partners:{Q7Z6J0;O15519;Q99497;Q15326;O43255}  
24107 Pathogen[ P0C214] interacts with 5 human partners:{Q7Z6J0;Q99497;O15519;Q15326;O43255}  
24108 Pathogen[ P03346] interacts with 5 human partners:{Q7Z6J0;O43255;O15519;Q99497;Q15326}  
24109 Pathogen[ Q85601] interacts with 5 human partners:{Q99497;Q7Z6J0;Q15326;O43255;O15519}  
24110 Pathogen[ P14079] interacts with 3 human partners:{O15519;Q99497;Q15326}  
24111 Pathogen[ P03383] interacts with 2 human partners:{Q15326;O43255}  
24112 Pathogen[ P03410] interacts with 4 human partners:{Q99497;O15519;Q7Z6J0;Q15326}  
24113 Pathogen[ P14075] interacts with 2 human partners:{O43255;Q15326}  
24114 Pathogen[ P0C206] interacts with 5 human partners:{Q7Z6J0;O43255;Q99497;Q15326;O15519}  
24115 Pathogen[ P03363] interacts with 4 human partners:{O15519;Q15326;Q7Z6J0;O43255}  
24116 [Cluster 2193]GO:0044387+P biological\_process [name] negative regulation of protein kinase activity by regulation of protein phosphorylation [def] "The stopping, prevention, or reduction in frequency, rate or extent of protein kinase activity as a result of regulating the phosphorylation status of that protein kinase." [GOC  
24117 Pathogen[ Q2Q067] interacts with 2 human partners:{P55265;P49593}  
24118 Pathogen[ P0C214] interacts with 2 human partners:{P55265;P49593}  
24119 Pathogen[ P03346] interacts with 2 human partners:{P55265;P49593}  
24120 Pathogen[ Q85601] interacts with 2 human partners:{P49593;P55265}  
24121 Pathogen[ P14079] interacts with 2 human partners:{P49593;P55265}  
24122 Pathogen[ P03383] interacts with 1 human partners:{P55265}  
24123 Pathogen[ P03410] interacts with 2 human partners:{P55265;P49593}  
24124 Pathogen[ P14075] interacts with 1 human partners:{P55265}  
24125 Pathogen[ P0C206] interacts with 2 human partners:{P55265;P49593}  
24126 Pathogen[ P03363] interacts with 1 human partners:{P55265}  
24127 [Cluster 2194]GO:0035284+P biological\_process [name] brain segmentation [def] "Division of the brain into a series of semi-repetitive parts or segments." [GOC  
24128 Pathogen[ Q2Q067] interacts with 3 human partners:{O43364;Q9Y5Q3;P11161}  
24129 Pathogen[ P0C214] interacts with 2 human partners:{Q9Y5Q3;P11161}  
24130 Pathogen[ P03346] interacts with 3 human partners:{Q9Y5Q3;O43364;P11161}  
24131 Pathogen[ Q85601] interacts with 3 human partners:{O43364;Q9Y5Q3;P11161}  
24132 Pathogen[ P14079] interacts with 3 human partners:{Q9Y5Q3;O43364;P11161}  
24133 Pathogen[ P03383] interacts with 2 human partners:{Q9Y5Q3;P11161}  
24134 Pathogen[ P03410] interacts with 3 human partners:{Q9Y5Q3;O43364;P11161}  
24135 Pathogen[ P14075] interacts with 2 human partners:{P11161;Q9Y5Q3}  
24136 Pathogen[ P0C206] interacts with 3 human partners:{Q9Y5Q3;P11161;O43364}  
24137 Pathogen[ P03363] interacts with 3 human partners:{O43364;Q9Y5Q3;P11161}  
24138 [Cluster 2195]GO:0016480+P biological\_process [name] negative regulation of transcription from RNA polymerase III promoter [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of transcription from an RNA polymerase III promoter." [GOC  
24139 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9H063;Q15742}  
24140 Pathogen[ P0C214] interacts with 2 human partners:{Q15742;Q9H063}  
24141 Pathogen[ P03346] interacts with 2 human partners:{Q15742;Q9H063}  
24142 Pathogen[ Q85601] interacts with 2 human partners:{Q15742;Q9H063}  
24143 Pathogen[ P14079] interacts with 2 human partners:{Q15742;Q9H063}  
24144 Pathogen[ P03383] interacts with 2 human partners:{Q15742;Q9H063}  
24145 Pathogen[ P03410] interacts with 2 human partners:{Q9H063;Q15742}  
24146 Pathogen[ P14075] interacts with 2 human partners:{Q9H063;Q15742}  
24147 Pathogen[ P0C206] interacts with 2 human partners:{Q15742;Q9H063}  
24148 Pathogen[ P03363] interacts with 2 human partners:{Q9H063;Q15742}  
24149 [Cluster 2196]GO:0030431+P biological\_process [name] sleep [def] "Any process in

which an organism enters and maintains a periodic, readily reversible state of reduced awareness and metabolic activity. Usually accompanied by physical relaxation, the onset of sleep in humans and other mammals is marked by a change in the electrical activity of the brain." [ISBN

24150 Pathogen[ Q2Q067] interacts with 2 human partners:{P01100;P10515}

24151 Pathogen[ P0C214] interacts with 2 human partners:{P01100;P10515}

24152 Pathogen[ P03346] interacts with 2 human partners:{P10515;P01100}

24153 Pathogen[ Q85601] interacts with 2 human partners:{P01100;P10515}

24154 Pathogen[ P14079] interacts with 2 human partners:{P10515;P01100}

24155 Pathogen[ P03383] interacts with 2 human partners:{P01100;P10515}

24156 Pathogen[ P03410] interacts with 2 human partners:{P01100;P10515}

24157 Pathogen[ P14075] interacts with 2 human partners:{P10515;P01100}

24158 Pathogen[ P0C206] interacts with 2 human partners:{P01100;P10515}

24159 Pathogen[ P03363] interacts with 2 human partners:{P10515;P01100}

24160 [Cluster 2197]GO:0001866+P biological\_process [name] NK T cell proliferation [def] "The expansion of a NK T cell population by cell division." [GOC

24161 Pathogen[ Q2Q067] interacts with 1 human partners:{Q99607}

24162 Pathogen[ P0C214] interacts with 1 human partners:{Q99607}

24163 Pathogen[ P03346] interacts with 1 human partners:{Q99607}

24164 Pathogen[ Q85601] interacts with 1 human partners:{Q99607}

24165 Pathogen[ P14079] interacts with 1 human partners:{Q99607}

24166 Pathogen[ P03383] interacts with 1 human partners:{Q99607}

24167 Pathogen[ P03410] interacts with 1 human partners:{Q99607}

24168 Pathogen[ P14075] interacts with 1 human partners:{Q99607}

24169 Pathogen[ P0C206] interacts with 1 human partners:{Q99607}

24170 Pathogen[ P03363] interacts with 1 human partners:{Q99607}

24171 [Cluster 2198]GO:1901189+P

24172 Pathogen[ Q2Q067] interacts with 1 human partners:{Q06330}

24173 Pathogen[ P0C214] interacts with 1 human partners:{Q06330}

24174 Pathogen[ P03346] interacts with 1 human partners:{Q06330}

24175 Pathogen[ Q85601] interacts with 1 human partners:{Q06330}

24176 Pathogen[ P14079] interacts with 1 human partners:{Q06330}

24177 Pathogen[ P03383] interacts with 1 human partners:{Q06330}

24178 Pathogen[ P03410] interacts with 1 human partners:{Q06330}

24179 Pathogen[ P14075] interacts with 1 human partners:{Q06330}

24180 Pathogen[ P0C206] interacts with 1 human partners:{Q06330}

24181 Pathogen[ P03363] interacts with 1 human partners:{Q06330}

24182 [Cluster 2199]GO:0050790+P biological\_process [name] regulation of catalytic activity [def] "Any process that modulates the activity of an enzyme." [GOC

24183 Pathogen[ Q2Q067] interacts with 3 human partners:{Q86XL3;P51948;Q14232}

24184 Pathogen[ P0C214] interacts with 4 human partners:{Q9UI12;Q14232;P51948;Q86XL3}

24185 Pathogen[ P03346] interacts with 6 human partners:{Q14232;Q96QG7;Q15019;Q15435;Q86XL3;P51948}

24186 Pathogen[ Q85601] interacts with 4 human partners:{P51948;Q86XL3;Q14232;Q96QG7}

24187 Pathogen[ P14079] interacts with 9 human partners:{P10109;Q96QG7;Q86XL3;O00631;Q9Y478;Q9UI12;Q14558;Q14232;P51948}

24188 Pathogen[ P03383] interacts with 2 human partners:{P51948;Q14232}

24189 Pathogen[ P03410] interacts with 8 human partners:{Q96QG7;Q14232;Q14558;Q9UI12;P51948;P10109;O00631;Q86XL3}

24190 Pathogen[ P14075] interacts with 2 human partners:{Q14232;P51948}

24191 Pathogen[ P0C206] interacts with 7 human partners:{Q15435;Q15019;Q86XL3;Q14232;Q96QG7;Q9UI12;P51948}

24192 Pathogen[ P03363] interacts with 3 human partners:{Q15435;Q96QG7;Q86XL3}

24193 [Cluster 2200]GO:0030279+P biological\_process [name] negative regulation of ossification [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of bone formation." [GOC

24194 Pathogen[ Q2Q067] interacts with 1 human partners:{Q06330}

24195 Pathogen[ P0C214] interacts with 2 human partners:{Q06330;Q9HCE7}

24196 Pathogen[ P03346] interacts with 1 human partners:{Q06330}

24197 Pathogen[ Q85601] interacts with 1 human partners:{Q06330}

24198 Pathogen[ P14079] interacts with 2 human partners:{Q06413;Q06330}

24199 Pathogen[ P03383] interacts with 1 human partners:{Q06330}

24200 Pathogen[ P03410] interacts with 2 human partners:{Q06330;Q9BQB4}

24201 Pathogen[ P14075] interacts with 1 human partners:{Q06330}

24202 Pathogen[ P0C206] interacts with 1 human partners:{Q06330}

24203 Pathogen[ P03363] interacts with 1 human partners:{Q06330}

24204 [Cluster 2201]GO:0031663+P biological\_process [name] lipopolysaccharide-mediated signaling pathway [def] "The series of molecular signals generated in response to detection of lipopolysaccharide. Lipopolysaccharides (LPS) are major components of the outer membrane of Gram-negative bacteria, making them prime targets for recognition by the immune system." [GOC

24205 Pathogen[ Q2Q067] interacts with 6 human partners:{Q8IUC6;Q86UE4;Q14653;P29474;P25963;P42224}

24206 Pathogen[ P0C214] interacts with 6 human partners:{P29474;Q8IUC6;P42224;Q86UE4;P25963;Q14653}

24207 Pathogen[ P03346] interacts with 6 human

24208 partners:{Q86UE4;P29474;P25963;P42224;Q14653;Q8IUC6}  
Pathogen[ Q85601] interacts with 6 human

24209 partners:{Q8IUC6;Q14653;P42224;Q86UE4;P29474;P25963}  
Pathogen[ P14079] interacts with 7 human

24210 partners:{O43187;Q14653;Q8IUC6;Q86UE4;P42224;Q9Y6Y9;Q99836}  
Pathogen[ P03383] interacts with 5 human

24211 partners:{Q14653;P29474;Q8IUC6;Q86UE4;P25963}  
Pathogen[ P03410] interacts with 7 human

24212 partners:{Q14653;O43187;P29474;Q86UE4;Q9Y6Y9;Q8IUC6;P25963}  
Pathogen[ P14075] interacts with 5 human

24213 partners:{P29474;Q86UE4;P25963;Q14653;Q8IUC6}  
Pathogen[ P0C206] interacts with 6 human

24214 partners:{P25963;Q8IUC6;P29474;Q86UE4;P42224;Q14653}  
Pathogen[ P03363] interacts with 4 human partners:{Q14653;P29474;P25963;Q86UE4}

24215 [Cluster 2202]GO:0006481+P biological\_process [name] C-terminal protein methylation  
[def] "The methylation of the C-terminal amino acid of a protein." [GOC

24216 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UIC8}  
24217 Pathogen[ P0C214] interacts with 1 human partners:{Q9UIC8}  
24218 Pathogen[ P03346] interacts with 1 human partners:{Q9UIC8}  
24219 Pathogen[ Q85601] interacts with 1 human partners:{Q9UIC8}  
24220 Pathogen[ P14079] interacts with 1 human partners:{Q9UIC8}  
24221 Pathogen[ P03383] interacts with 1 human partners:{Q9UIC8}  
24222 Pathogen[ P03410] interacts with 1 human partners:{Q9UIC8}  
24223 Pathogen[ P14075] interacts with 1 human partners:{Q9UIC8}  
24224 Pathogen[ P0C206] interacts with 1 human partners:{Q9UIC8}  
24225 Pathogen[ P03363] interacts with 1 human partners:{Q9UIC8}

24226 [Cluster 2203]GO:0031929+P biological\_process [name] TOR signaling cascade [def] "A  
series of molecular signals mediated by TOR (Target of rapamycin) proteins, members of  
the phosphoinositide (PI) 3-kinase related kinase (PIKK) family that act as  
serine/threonine kinases in response to nutrient availability or growth factors." [PMID

24227 Pathogen[ Q2Q067] interacts with 3 human partners:{Q13541;Q9NRI5;P62753}  
24228 Pathogen[ P0C214] interacts with 3 human partners:{Q9NRI5;P62753;Q13541}  
24229 Pathogen[ P03346] interacts with 3 human partners:{Q9NRI5;Q13541;P62753}  
24230 Pathogen[ Q85601] interacts with 3 human partners:{P62753;Q13541;Q9NRI5}  
24231 Pathogen[ P14079] interacts with 3 human partners:{P62753;Q9NRI5;Q13541}  
24232 Pathogen[ P03383] interacts with 3 human partners:{Q9NRI5;P62753;Q13541}  
24233 Pathogen[ P03410] interacts with 3 human partners:{Q13541;Q9NRI5;P62753}  
24234 Pathogen[ P14075] interacts with 3 human partners:{Q9NRI5;P62753;Q13541}  
24235 Pathogen[ P0C206] interacts with 3 human partners:{Q13541;Q9NRI5;P62753}  
24236 Pathogen[ P03363] interacts with 3 human partners:{P62753;Q9NRI5;Q13541}

24237 [Cluster 2204]GO:0006895+P biological\_process [name] Golgi to endosome transport  
[def] "The directed movement of substances from the Golgi to early sorting endosomes.  
Clathrin vesicles transport substances from the trans-Golgi to endosomes." [GOC

24238 Pathogen[ Q2Q067] interacts with 3 human partners:{O95782;Q9Y3R5;Q96RL7}  
24239 Pathogen[ P0C214] interacts with 3 human partners:{Q96RL7;O95782;Q9Y3R5}  
24240 Pathogen[ P03346] interacts with 4 human partners:{O95782;Q9Y3R5;Q7Z3U7;Q96RL7}  
24241 Pathogen[ Q85601] interacts with 3 human partners:{Q96RL7;Q9Y3R5;O95782}  
24242 Pathogen[ P14079] interacts with 3 human partners:{Q96RL7;O95782;Q9Y3R5}  
24243 Pathogen[ P03383] interacts with 3 human partners:{Q96RL7;Q9Y3R5;O95782}  
24244 Pathogen[ P03410] interacts with 3 human partners:{O95782;Q96RL7;Q7Z3U7}  
24245 Pathogen[ P14075] interacts with 3 human partners:{Q96RL7;O95782;Q9Y3R5}  
24246 Pathogen[ P0C206] interacts with 3 human partners:{Q9Y3R5;O95782;Q96RL7}  
24247 Pathogen[ P03363] interacts with 3 human partners:{Q9Y3R5;O95782;Q96RL7}

24248 [Cluster 2205]GO:0021953+P biological\_process [name] central nervous system neuron  
differentiation [def] "The process in which a relatively unspecialized cell acquires  
specialized features of a neuron whose cell body resides in the central nervous system."  
[GO\_REF

24249 Pathogen[ Q2Q067] interacts with 2 human partners:{P49639;P35711}  
24250 Pathogen[ P0C214] interacts with 2 human partners:{P49639;P35711}  
24251 Pathogen[ P03346] interacts with 3 human partners:{P49639;P50219;P35711}  
24252 Pathogen[ Q85601] interacts with 2 human partners:{P49639;P35711}  
24253 Pathogen[ P14079] interacts with 2 human partners:{P35711;P49639}  
24254 Pathogen[ P03383] interacts with 2 human partners:{P49639;P35711}  
24255 Pathogen[ P03410] interacts with 1 human partners:{P49639}  
24256 Pathogen[ P14075] interacts with 1 human partners:{P35711}  
24257 Pathogen[ P0C206] interacts with 2 human partners:{P49639;P35711}  
24258 Pathogen[ P03363] interacts with 3 human partners:{P35711;P49639;P50219}

24259 [Cluster 2206]GO:0010952+P biological\_process [name] positive regulation of peptidase  
activity [def] "Any process that increases the frequency, rate or extent of peptidase  
activity, the hydrolysis of peptide bonds within proteins." [GOC

24260 Pathogen[ Q2Q067] interacts with 1 human partners:{O76031}  
24261 Pathogen[ P0C214] interacts with 1 human partners:{O76031}  
24262 Pathogen[ P03346] interacts with 1 human partners:{O76031}  
24263 Pathogen[ Q85601] interacts with 1 human partners:{O76031}  
24264 Pathogen[ P14079] interacts with 1 human partners:{O76031}  
24265 Pathogen[ P03383] interacts with 1 human partners:{O76031}

24266 Pathogen[ P03410] interacts with 1 human partners:{076031}  
24267 Pathogen[ P14075] interacts with 1 human partners:{076031}  
24268 Pathogen[ P0C206] interacts with 1 human partners:{076031}  
24269 Pathogen[ P03363] interacts with 1 human partners:{076031}  
24270 [Cluster 2207]GO:0048741+P biological\_process [name] skeletal muscle fiber development [def] "The process whose specific outcome is the progression of the skeletal muscle fiber over time, from its formation to the mature structure. Muscle fibers are formed by the maturation of myotubes. They can be classed as slow, intermediate/fast or fast." [GOC  
24271 Pathogen[ Q2Q067] interacts with 4 human partners:{Q08209;P15172;P12755;P53805}  
24272 Pathogen[ P0C214] interacts with 5 human partners:{P68133;P15172;Q08209;P12755;P53805}  
24273 Pathogen[ P03346] interacts with 4 human partners:{P53805;P15172;P15173;Q08209}  
24274 Pathogen[ Q85601] interacts with 5 human partners:{P68133;P15172;P12755;Q08209;P53805}  
24275 Pathogen[ P14079] interacts with 4 human partners:{P12755;P53805;Q08209;P68133}  
24276 Pathogen[ P03383] interacts with 2 human partners:{P15172;P53805}  
24277 Pathogen[ P03410] interacts with 4 human partners:{P12755;Q08209;P53805;P68133}  
24278 Pathogen[ P14075] interacts with 2 human partners:{P15172;P53805}  
24279 Pathogen[ P0C206] interacts with 5 human partners:{P53805;P12755;P68133;P15172;Q08209}  
24280 Pathogen[ P03363] interacts with 3 human partners:{P53805;P68133;P15172}  
24281 [Cluster 2208]GO:0045104+P biological\_process [name] intermediate filament cytoskeleton organization [def] "A process that is carried out at the cellular level which results in the assembly, arrangement of constituent parts, or disassembly of cytoskeletal structures comprising intermediate filaments and their associated proteins." [GOC  
24282 Pathogen[ Q2Q067] interacts with 8 human partners:{P54252;P41219;P08779;P12035;O15061;P12036;Q16352;P07197}  
24283 Pathogen[ P0C214] interacts with 9 human partners:{P12035;O15061;P41219;Q16352;Q13515;P08779;P12036;P07197;P54252}  
24284 Pathogen[ P03346] interacts with 10 human partners:{Q16352;P08779;Q96RT1;Q13515;O15061;P07197;P12036;P41219;P12035;P54252}  
24285 Pathogen[ Q85601] interacts with 10 human partners:{P08779;Q96RT1;P12036;P54252;Q13515;P12035;P41219;P07197;Q16352;O15061}  
24286 Pathogen[ P14079] interacts with 9 human partners:{P08779;P41219;P12036;P54252;Q96RT1;O15061;P07197;Q13515;P12035}  
24287 Pathogen[ P03383] interacts with 9 human partners:{Q16352;Q13515;P12036;O15061;P08779;P54252;P41219;P12035;P07197}  
24288 Pathogen[ P03410] interacts with 10 human partners:{Q96RT1;P12036;O15061;P12035;Q16352;Q13515;P54252;P41219;P08779;P07197}  
24289 Pathogen[ P14075] interacts with 9 human partners:{Q16352;Q13515;P12035;O15061;P54252;P41219;P12036;P08779;P07197}  
24290 Pathogen[ P0C206] interacts with 10 human partners:{Q96RT1;P08779;O15061;P41219;Q13515;P54252;P12036;Q16352;P12035;P07197}  
24291 Pathogen[ P03363] interacts with 10 human partners:{P08779;Q96RT1;P07197;Q16352;O15061;P54252;P41219;P12035;P12036;Q13515}  
24292 [Cluster 2209]GO:0048645+P biological\_process [name] organ formation [def] "The process pertaining to the initial formation of an organ from unspecified parts. The process begins with the specific processes that contribute to the appearance of the discrete structure, such as inductive events, and ends when the structural rudiment of the organ is recognizable, such as a condensation of mesenchymal cells into the organ rudiment. Organs are a natural part or structure in an animal or a plant, capable of performing some special action (termed its function), which is essential to the life or well-being of the whole. The heart and lungs are organs of animals, and the petal and leaf are organs of plants. In animals the organs are generally made up of several tissues, one of which usually predominates, and determines the principal function of the organ." [GOC  
24293 Pathogen[ Q2Q067] interacts with 2 human partners:{043365;P31314}  
24294 Pathogen[ P0C214] interacts with 2 human partners:{043365;P31314}  
24295 Pathogen[ P03346] interacts with 3 human partners:{043365;P78367;P31314}  
24296 Pathogen[ Q85601] interacts with 2 human partners:{P31314;043365}  
24297 Pathogen[ P14079] interacts with 1 human partners:{043365}  
24298 Pathogen[ P03383] interacts with 2 human partners:{043365;P31314}  
24299 Pathogen[ P03410] interacts with 2 human partners:{P31314;043365}  
24300 Pathogen[ P14075] interacts with 2 human partners:{043365;P31314}  
24301 Pathogen[ P0C206] interacts with 2 human partners:{P31314;043365}  
24302 Pathogen[ P03363] interacts with 3 human partners:{043365;P31314;P78367}  
24303 [Cluster 2210]GO:0035306+P biological\_process [name] positive regulation of dephosphorylation [def] "Any process that activates or increases the frequency, rate or extent of removal of phosphate groups from a molecule." [GOC  
24304 Pathogen[ Q2Q067] interacts with 1 human partners:{P78318}  
24305 Pathogen[ P0C214] interacts with 1 human partners:{P78318}  
24306 Pathogen[ P03346] interacts with 1 human partners:{P78318}  
24307 Pathogen[ Q85601] interacts with 1 human partners:{P78318}  
24308 Pathogen[ P14079] interacts with 1 human partners:{P78318}

24309 Pathogen[ P03383] interacts with 1 human partners:{P78318}

24310 Pathogen[ P03410] interacts with 1 human partners:{P78318}

24311 Pathogen[ P14075] interacts with 1 human partners:{P78318}

24312 Pathogen[ P0C206] interacts with 1 human partners:{P78318}

24313 Pathogen[ P03363] interacts with 1 human partners:{P78318}

24314 [Cluster 2211]GO:0048246+P biological\_process [name] macrophage chemotaxis [def] "The movement of a macrophage in response to an external stimulus." [GOC]

24315 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BW27}

24316 Pathogen[ P0C214] interacts with 1 human partners:{Q9BW27}

24317 Pathogen[ P03346] interacts with 1 human partners:{Q9BW27}

24318 Pathogen[ Q85601] interacts with 1 human partners:{Q9BW27}

24319 Pathogen[ P14079] interacts with 2 human partners:{Q9BW27;P0DJI8}

24320 Pathogen[ P03383] interacts with 1 human partners:{Q9BW27}

24321 Pathogen[ P03410] interacts with 2 human partners:{Q9BW27;P0DJI8}

24322 Pathogen[ P14075] interacts with 1 human partners:{Q9BW27}

24323 Pathogen[ P0C206] interacts with 1 human partners:{Q9BW27}

24324 Pathogen[ P03363] interacts with 1 human partners:{Q9BW27}

24325 [Cluster 2212]GO:000117+P biological\_process [name] regulation of transcription involved in G2/M-phase of mitotic cell cycle [def] "Any process that regulates transcription such that the target genes are transcribed as part of the G2/M phase of the mitotic cell cycle." [GOC]

24326 Pathogen[ Q2Q067] interacts with 2 human partners:{O14867;P21675}

24327 Pathogen[ P0C214] interacts with 2 human partners:{P21675;O14867}

24328 Pathogen[ P03346] interacts with 2 human partners:{O14867;P21675}

24329 Pathogen[ Q85601] interacts with 2 human partners:{O14867;P21675}

24330 Pathogen[ P14079] interacts with 2 human partners:{O14867;P21675}

24331 Pathogen[ P03383] interacts with 1 human partners:{P21675}

24332 Pathogen[ P03410] interacts with 2 human partners:{P21675;O14867}

24333 Pathogen[ P14075] interacts with 1 human partners:{P21675}

24334 Pathogen[ P0C206] interacts with 2 human partners:{O14867;P21675}

24335 Pathogen[ P03363] interacts with 2 human partners:{O14867;P21675}

24336 [Cluster 2213]GO:0045875+P biological\_process [name] negative regulation of sister chromatid cohesion [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of sister chromatid cohesion." [GOC]

24337 Pathogen[ Q2Q067] interacts with 2 human partners:{Q7Z5K2;Q14674}

24338 Pathogen[ P0C214] interacts with 2 human partners:{Q7Z5K2;Q14674}

24339 Pathogen[ P03346] interacts with 2 human partners:{Q7Z5K2;Q14674}

24340 Pathogen[ Q85601] interacts with 2 human partners:{Q14674;Q7Z5K2}

24341 Pathogen[ P14079] interacts with 2 human partners:{Q14674;Q7Z5K2}

24342 Pathogen[ P03383] interacts with 2 human partners:{Q14674;Q7Z5K2}

24343 Pathogen[ P03410] interacts with 2 human partners:{Q7Z5K2;Q14674}

24344 Pathogen[ P14075] interacts with 2 human partners:{Q7Z5K2;Q14674}

24345 Pathogen[ P0C206] interacts with 2 human partners:{Q7Z5K2;Q14674}

24346 Pathogen[ P03363] interacts with 2 human partners:{Q14674;Q7Z5K2}

24347 [Cluster 2214]GO:000082+P biological\_process [name] G1/S transition of mitotic cell cycle [def] "Progression from G1 phase to S phase of the mitotic cell cycle." [GOC]

24348 Pathogen[ Q2Q067] interacts with 101 human partners:{Q9UPP1;Q99460;O75832;P48556;P18754;P40306;Q93034;P42773;P55036;P24385;P06400;O00231;O00233;P27694;Q01094;Q08209;P51665;Q99741;P28072;P61024;P49427;Q99708;Q9H211;O00743;P35244;Q9UBU7;Q13200;P25787;Q06323;Q13415;Q13156;P30304;P28065;O14818;P14635;Q13541;P12004;Q14181;Q9Y5P8;Q14186;P51948;P31350;P60900;Q9UL46;P61289;Q9UBD5;Q5MJ70;P15927;Q86T82;P28062;P56282;O95644;P24864;Q9UNM6;P25788;O75419;Q13616;Q92530;P50613;P25786;P78396;P38936;Q13618;O96020;Q16401;O00232;Q13309;Q7L590;O43913;P28074;P25789;Q9UKT4;P0CG47;Q13619;P04818;Q9Y5N6;Q13416;P20618;P42771;P0CG48;P25205;P47928;P28070;P28066;Q99436;P24941;Q9BQA5;P62987;O43242;P06730;P49721;P11802;P46527;P49720;P10242;Q96FF9;P63208;Q13617;P51946;Q00534;P62979}

24349 Pathogen[ P0C214] interacts with 107 human partners:{P51665;P51946;Q13619;Q13617;P25789;P55036;P04818;Q13156;P31350;P28062;P28065;O43913;Q7L590;P50613;Q13309;P49427;Q5H9I0;O14818;P11802;O43242;P61024;Q99708;P63208;Q86Y37;P46527;P48556;Q13618;P40306;Q93034;P14635;P24385;Q9UBU7;Q13200;P38936;O00232;Q9Y5N6;Q96FF9;P15170;P25205;Q99460;P28066;Q01094;O75832;P00374;Q14566;Q00534;Q14186;P47928;P51948;P49720;P28074;P0CG48;Q9UL46;P78396;Q08209;P15927;P25788;P24941;Q9UNM6;O00231;P42771;P35244;Q06323;P25786;Q9H211;Q13616;P28072;P10242;P62987;P42773;P54687;O75419;Q99436;P24864;P0CG47;P25787;Q13416;O00743;Q5MJ70;P27694;P35998;P60900;Q9Y5P8;Q9BQA5;O00233;O95644;P62979;P06730;P18754;P30304;P56282;Q92530;Q15008;Q9UBD5;Q9UPP1;P28070;P06400;Q9UKT4;P20618;P49721;Q99741;Q16401;Q13541;O96020;P17980;Q13415;Q14181}

24350 Pathogen[ P03346] interacts with 107 human partners:{P25787;P12004;P28070;O00743;P78396;P25789;P55036;P06730;P55273;P24385;Q99460;Q96FF9;Q13616;Q5MJ70;Q9UL46;P62987;P27694;P28072;P49427;P06400;P25788;Q9Y5N6;P28074;P49721;Q13541;O96020;Q9UBD5;P35244;O14818;Q99708;Q99436;P24941;P30304;Q13156;P56282;P0CG48;Q13618;Q16401;Q9UBU7;P24864;P28062;P18754;P61024;P20618;P42771;O00232;O95644;Q01094;Q86T82;Q93034;P11802;Q9Y5P8;O75832;O00233;Q14566;P25205;Q14186;P31350;P10242;Q16667;P14635;Q13309;P49720;P28065;P51946;P60900;P33992;P25786;O00231;Q13415;Q9UKT4;P15927;Q86Y37;Q9UPP1;Q5H9I0;P63208;P61289;Q14181;P42773;P62979;P28066;Q9UNM6;P33991;P0CG47;Q13619;Q13416;Q13200;P48556;Q00534;P51665;P38936;Q06323;Q08209;O75419;P465



- 27;Q99741;Q7L590;Q92530;Q9H211;O43929;P51948;O43242;O43913;P40306;P47928;Q9BQA5;Q13617}
- 24351 Pathogen[ Q85601] interacts with 103 human partners: {P51946;P28066;Q9UNM6;P60900;O43913;Q13309;P55036;Q7L590;P55273;P24385;P25787;P61289;P06730;P56282;P49427;P06400;P25788;Q9UKT4;P35244;Q99708;O75832;Q13415;Q9Y5N6;Q13616;P10242;Q9UBU7;Q9UBD5;P0CG48;P30304;Q86Y37;P51948;P61024;O95644;P31350;P27694;Q13541;P11802;Q08209;P25789;O00233;Q14566;O96020;Q14186;P20618;P63208;P15170;P25205;P40306;P14635;P15927;P49720;P28062;P49721;P25786;P78396;P42771;Q9UPP1;P28072;Q13200;P50613;P28065;Q14181;P42773;Q5H9I0;P62979;Q99436;P28070;Q86T82;Q9BQA5;Q9UL46;Q99460;O00231;P0CG47;Q13416;P18754;Q13156;P48556;O00743;P12004;P28074;Q92530;P38936;P62987;P33992;Q00534;Q13618;Q06323;O75419;Q99741;Q13619;Q9H211;O14818;Q96FF9;P24941;Q16401;Q01094;Q93034;Q9Y5P8;P47928;P46527;P24864;Q5MJ70;Q13617}
- 24352 Pathogen[ P14079] interacts with 106 human partners: {P28065;Q99436;P00374;P62333;Q13416;P48556;Q5MJ70;Q7L590;P0CG48;O75419;Q14566;Q9UKT4;P06730;Q14186;P51946;Q13415;Q13309;P78396;Q9Y5N6;P24864;P40306;P55036;P28074;Q13618;O00232;Q96FF9;O43913;Q9H211;O95644;P49720;O00487;P25787;Q5H9I0;O75832;P62979;O00233;P31350;P35998;Q9BQA5;Q13156;P61289;P30304;P62987;P55273;P51665;Q13541;P20618;Q99741;P50613;P14635;P28062;P60900;Q9UBD5;Q9UPP1;Q99708;P38936;Q9UNM6;P56282;Q93034;Q99460;O14818;P49721;Q92530;P49642;Q14181;O43929;Q13617;P33992;P15927;P49427;Q06323;P27694;P62191;P46527;P12004;Q15008;P42773;P43686;O43242;P25788;P63208;O00231;Q13616;P28066;Q9Y5P8;Q9UL46;O96020;Q86Y37;P10242;P35244;P0CG47;Q01094;P04818;Q08209;P25205;Q16401;P17980;P18754;O00743;P47928;P28072;Q9UBU7;Q13619;P42771;P61024;P51948}
- 24353 Pathogen[ P03383] interacts with 90 human partners: {Q13616;Q9UBD5;P55036;P61024;P62987;Q5H9I0;P51948;P25789;P60900;Q01094;Q7L590;Q14181;P49427;P27694;Q93034;P40306;O95644;O00233;P25205;P30304;P49721;Q06323;P24385;Q9UKT4;P63208;Q00534;P20618;P14635;P11802;P06400;P31350;Q13618;P78396;O43913;Q9Y5P8;P56282;O75832;P06730;Q14186;P15927;P50613;Q9Y5N6;Q13541;P51946;P46527;Q9BQA5;P24941;P18754;Q9UL46;Q9UNM6;P35244;P25786;Q99460;O96020;P28072;Q13200;P28065;P42771;P28066;Q96FF9;Q99708;P10242;O75419;Q13617;Q16401;P62979;O00231;P0CG47;Q13416;Q13309;P0CG48;P28074;Q92530;P49720;P61289;Q13156;P47928;P28062;P24864;P48556;O00743;O14818;Q99436;Q9UPP1;Q9H211;P28070;Q99741;P25787;P25788;Q5MJ70}
- 24354 Pathogen[ P03410] interacts with 111 human partners: {Q9UKT4;P42771;Q9UPP1;P28070;P46527;P35244;P25205;P55036;O43929;P31350;P0CG48;Q99708;Q14181;Q00534;P25786;Q13416;Q08209;Q15008;Q16401;P49427;P60900;O75419;O96020;Q9BQA5;P06730;P35998;Q99460;P00374;P10242;O00233;P51946;Q5H9I0;O00232;P55273;P48556;P49721;Q9H211;P06400;P56282;P62979;Q13541;P50613;Q99436;P33992;P78396;O95644;P40306;Q06323;P24385;Q13618;P63208;Q13200;P25787;P14635;P38936;Q13309;P15170;P04818;P30304;P24941;P11802;Q9UBU7;P28062;P51665;P47928;Q13156;Q14186;O14818;Q86Y37;Q7L590;O00231;Q9UNM6;P51948;P25789;P49720;Q13616;P62987;Q01094;Q13619;P61024;P27694;Q13617;P28072;Q5MJ70;Q96FF9;P15927;P18754;Q9Y5N6;P25788;O43913;Q14566;P28066;P24864;P12004;Q9UBD5;P42773;Q93034;P28065;O43242;O00743;P0CG47;P17980;O75832;P20618;P49642;Q9Y5P8;Q9UL46;P28074;P61289;Q13415;Q99741}
- 24355 Pathogen[ P14075] interacts with 89 human partners: {Q9Y5P8;P55036;P25788;Q9H211;P31350;P28066;P24941;Q5MJ70;P11802;Q06323;O75832;Q93034;Q9BQA5;P61024;Q13618;Q9UKT4;P60900;P49427;P14635;O00233;Q9UL46;Q9Y5N6;P49720;P50613;Q9UPP1;Q9UBD5;O75419;Q00534;P42771;P47928;Q13200;P48556;P06730;Q16401;P15927;O96020;P10242;P28070;P49721;Q96FF9;O00231;P46527;P78396;O00743;Q92530;P63208;Q13156;Q14186;P35244;P0CG48;P62979;P28062;P28074;P25205;P28065;P25786;O14818;P62987;Q13309;P28072;Q01094;P30304;P06400;O43913;P27694;P51946;P0CG47;P25787;Q13416;P18754;Q99741;P20618;P24385;P56282;Q9UNM6;Q13616;Q14181;P61289;Q7L590;P40306;Q13617;Q99708;Q99436;Q13541;O95644;P51948;Q5H9I0;P25789;P24864}
- 24356 Pathogen[ P0C206] interacts with 108 human partners: {P61289;Q99436;P28062;Q9UNM6;Q13541;P0CG48;Q86Y37;O75832;P61024;P40306;P28065;O00743;P55036;Q99708;Q13309;P25786;P25788;P18754;O75419;Q13156;P25205;P25787;O43913;Q06323;P49720;Q9UPP1;P10242;O00232;P60900;Q9UBD5;P42771;Q14186;Q13416;Q13616;P49642;O43242;Q99741;Q9BQA5;O96020;P49427;P06730;P25789;Q96FF9;P30291;Q9UKT4;P42773;Q13619;Q13617;P50613;Q13618;P20618;Q14181;P63208;Q9UBU7;Q13200;P28070;Q99460;Q9H211;Q01094;P62979;Q9Y5N6;P55273;P46527;P28066;P38936;Q86T82;O14818;P04818;P0CG47;P28072;P30304;P78396;P56282;Q13415;Q5H9I0;P28074;P27694;Q08209;Q92530;P15927;P49721;P14635;Q93034;O95644;P62987;P35244;Q9UL46;P47928;P24864;Q9Y5P8;P24941;Q14566;O00233;P11802;P48556;Q16401;Q5MJ70;Q99640;P33992;O00231;P51946;P31350;P51948;P24385;Q00534;P12004;P06400;Q7L590}
- 24357 Pathogen[ P03363] interacts with 58 human partners: {Q9Y5P8;Q13309;P27694;P24864;Q92530;P25205;Q13618;P51946;Q16667;O00743;Q13617;P61289;P24941;Q14181;P35244;Q5H9I0;P15927;P49427;P06400;P33992;P30304;Q00534;Q13619;Q99708;Q13416;Q13616;O96020;Q13415;Q13156;Q01094;Q99741;P61024;Q86T82;P78396;Q9H211;Q5MJ70;Q9BQA5;Q9UKT4;P47928;P62987;P24385;P10242;Q14186;O95644;Q7L590;Q93034;Q96FF9;P42773;P11802;Q13541;Q9UBD5;P18754;Q9Y5N6;P63208;P06730;P42771;O75419;O43913}
- 24358 [Cluster 2215]GO:0010501+P biological\_process [name] RNA secondary structure unwinding [def] "The process in which a secondary structure of RNA are broken or 'melted'." [PMID 24359 Pathogen[ Q2Q067] interacts with 1 human partners: {Q13838}
- 24360 Pathogen[ P0C214] interacts with 1 human partners: {Q13838}
- 24361 Pathogen[ P03346] interacts with 1 human partners: {Q13838}
- 24362 Pathogen[ Q85601] interacts with 1 human partners: {Q13838}
- 24363 Pathogen[ P14079] interacts with 1 human partners: {Q13838}
- 24364 Pathogen[ P03383] interacts with 1 human partners: {Q13838}

24365 Pathogen[ P03410] interacts with 1 human partners:{Q13838}  
24366 Pathogen[ P14075] interacts with 1 human partners:{Q13838}  
24367 Pathogen[ P0C206] interacts with 1 human partners:{Q13838}  
24368 Pathogen[ P03363] interacts with 1 human partners:{Q13838}  
24369 [Cluster 2216]GO:0048205+P biological\_process [name] COPI coating of Golgi vesicle  
[def] "The addition of COPI proteins and adaptor proteins to Golgi membranes during the  
formation of transport vesicles, forming a vesicle coat." [GOC  
24370 Pathogen[ Q2Q067] interacts with 6 human  
partners:{O14579;P48444;P61923;P53618;P35606;Q9Y678}  
24371 Pathogen[ P0C214] interacts with 6 human  
partners:{P61923;O14579;P53618;P35606;P48444;Q9Y678}  
24372 Pathogen[ P03346] interacts with 9 human  
partners:{Q9Y678;P53618;O14579;P48444;P61923;P49755;P35606;Q15363;Q9BVK6}  
24373 Pathogen[ Q85601] interacts with 7 human  
partners:{P48444;O14579;P61923;Q8N6T3;Q9Y678;P53618;P35606}  
24374 Pathogen[ P14079] interacts with 8 human  
partners:{P61923;P35606;Q9BVK6;Q9Y678;Q15363;P49755;P48444;O14579}  
24375 Pathogen[ P03383] interacts with 3 human partners:{O14579;P53618;Q9Y678}  
24376 Pathogen[ P03410] interacts with 8 human  
partners:{P48444;P35606;O14579;Q9BVK6;Q9Y678;Q15363;P53618;P61923}  
24377 Pathogen[ P14075] interacts with 3 human partners:{P53618;Q9Y678;O14579}  
24378 Pathogen[ P0C206] interacts with 10 human  
partners:{Q9BVK6;O14579;Q9Y678;Q8N6T3;P53618;P49755;P35606;P48444;Q15363;P61923}  
24379 Pathogen[ P03363] interacts with 6 human  
partners:{P48444;Q9Y678;O14579;P53618;P61923;P35606}  
24380 [Cluster 2217]GO:0030857+P biological\_process [name] negative regulation of epithelial  
cell differentiation [def] "Any process that stops, prevents, or reduces the  
frequency, rate or extent of epithelial cell differentiation." [GOC  
24381 Pathogen[ Q2Q067] interacts with 2 human partners:{P24385;P46937}  
24382 Pathogen[ P0C214] interacts with 2 human partners:{P46937;P24385}  
24383 Pathogen[ P03346] interacts with 2 human partners:{P46937;P24385}  
24384 Pathogen[ Q85601] interacts with 2 human partners:{P24385;P46937}  
24385 Pathogen[ P14079] interacts with 1 human partners:{P46937}  
24386 Pathogen[ P03383] interacts with 2 human partners:{P24385;P46937}  
24387 Pathogen[ P03410] interacts with 2 human partners:{P24385;P46937}  
24388 Pathogen[ P14075] interacts with 2 human partners:{P46937;P24385}  
24389 Pathogen[ P0C206] interacts with 2 human partners:{P46937;P24385}  
24390 Pathogen[ P03363] interacts with 2 human partners:{P46937;P24385}  
24391 [Cluster 2218]GO:0080163+P biological\_process [name] regulation of protein  
serine/threonine phosphatase activity [def] "Any process that modulates the frequency,  
rate or extent of protein serine/threonine phosphatase activity  
24392 Pathogen[ Q2Q067] interacts with 1 human partners:{Q6NUP7}  
24393 Pathogen[ P0C214] interacts with 1 human partners:{Q6NUP7}  
24394 Pathogen[ P03346] interacts with 1 human partners:{Q6NUP7}  
24395 Pathogen[ Q85601] interacts with 1 human partners:{Q6NUP7}  
24396 Pathogen[ P14079] interacts with 1 human partners:{Q6NUP7}  
24397 Pathogen[ P03383] interacts with 1 human partners:{Q6NUP7}  
24398 Pathogen[ P03410] interacts with 1 human partners:{Q6NUP7}  
24399 Pathogen[ P14075] interacts with 1 human partners:{Q6NUP7}  
24400 Pathogen[ P0C206] interacts with 1 human partners:{Q6NUP7}  
24401 Pathogen[ P03363] interacts with 1 human partners:{Q6NUP7}  
24402 [Cluster 2219]GO:0006516+P biological\_process [name] glycoprotein catabolic process  
[def] "The chemical reactions and pathways resulting in the breakdown of glycoproteins,  
any protein that contains covalently bound glucose (i.e. monosaccharide) residues\_ the  
glycose occurs most commonly as oligosaccharide or fairly small polysaccharide but  
occasionally as monosaccharide." [GOC  
24403 Pathogen[ Q2Q067] interacts with 2 human partners:{Q96IV0;Q9NRD1}  
24404 Pathogen[ P0C214] interacts with 2 human partners:{Q96IV0;Q9NRD1}  
24405 Pathogen[ P03346] interacts with 2 human partners:{Q9NRD1;Q96IV0}  
24406 Pathogen[ Q85601] interacts with 2 human partners:{Q96IV0;Q9NRD1}  
24407 Pathogen[ P14079] interacts with 3 human partners:{Q96IV0;O60502;Q9NRD1}  
24408 Pathogen[ P03383] interacts with 2 human partners:{Q9NRD1;Q96IV0}  
24409 Pathogen[ P03410] interacts with 3 human partners:{Q9NRD1;O60502;Q96IV0}  
24410 Pathogen[ P14075] interacts with 2 human partners:{Q96IV0;Q9NRD1}  
24411 Pathogen[ P0C206] interacts with 2 human partners:{Q96IV0;Q9NRD1}  
24412 Pathogen[ P03363] interacts with 2 human partners:{Q96IV0;Q9NRD1}  
24413 [Cluster 2220]GO:0046502+P biological\_process [name] uroporphyrinogen III metabolic  
process [def] "The chemical reactions and pathways involving uroporphyrinogen III, a  
precursor for synthesis of vitamin B12, chlorophyll, and heme in organisms that produce  
these compounds." [GOC  
24414 Pathogen[ Q2Q067] interacts with 1 human partners:{P06132}  
24415 Pathogen[ P0C214] interacts with 1 human partners:{P06132}  
24416 Pathogen[ P03346] interacts with 1 human partners:{P06132}  
24417 Pathogen[ Q85601] interacts with 1 human partners:{P06132}  
24418 Pathogen[ P14079] interacts with 1 human partners:{P06132}  
24419 Pathogen[ P03383] interacts with 1 human partners:{P06132}

24420 Pathogen[ P03410] interacts with 1 human partners:{P06132}  
24421 Pathogen[ P14075] interacts with 1 human partners:{P06132}  
24422 Pathogen[ P0C206] interacts with 1 human partners:{P06132}  
24423 Pathogen[ P03363] interacts with 1 human partners:{P06132}  
24424 [Cluster 2221]GO:0060828+P biological\_process [name] regulation of canonical Wnt receptor signaling pathway [def] "Any process that modulates the rate, frequency, or extent of the Wnt receptor signaling pathway through beta-catenin, the series of molecular signals initiated by binding of a Wnt protein to a frizzled family receptor on the surface of the target cell, followed by propagation of the signal via beta-catenin, and ending with a change in transcription of target genes." [GOC  
24425 Pathogen[ Q2Q067] interacts with 5 human partners:{P50402;Q5JTC6;Q9H7S9;Q8ND76;Q9BT81}  
24426 Pathogen[ P0C214] interacts with 6 human partners:{Q8ND76;O94921;Q9BT81;P50402;Q5JTC6;Q9H7S9}  
24427 Pathogen[ P03346] interacts with 6 human partners:{Q8ND76;Q9H7S9;P50402;O94921;Q9BT81;Q5JTC6}  
24428 Pathogen[ Q85601] interacts with 6 human partners:{Q9H7S9;Q8ND76;O94921;Q5JTC6;P50402;Q9BT81}  
24429 Pathogen[ P14079] interacts with 5 human partners:{Q9BT81;Q8ND76;Q9H7S9;P50402;Q5JTC6}  
24430 Pathogen[ P03383] interacts with 5 human partners:{Q5JTC6;Q8ND76;Q9H7S9;O94921;P50402}  
24431 Pathogen[ P03410] interacts with 5 human partners:{P50402;Q5JTC6;Q9H7S9;Q9BT81;Q8ND76}  
24432 Pathogen[ P14075] interacts with 5 human partners:{P50402;Q5JTC6;Q8ND76;Q9H7S9;O94921}  
24433 Pathogen[ P0C206] interacts with 6 human partners:{P50402;Q9BT81;Q9H7S9;Q8ND76;O94921;Q5JTC6}  
24434 Pathogen[ P03363] interacts with 5 human partners:{Q5JTC6;Q9H7S9;Q8ND76;P50402;Q9BT81}  
24435 [Cluster 2222]GO:2000194+P biological\_process [name] regulation of female gonad development [def] "Any process that modulates the frequency, rate or extent of female gonad development." [GOC  
24436 Pathogen[ Q2Q067] interacts with 1 human partners:{O60356}  
24437 Pathogen[ P0C214] interacts with 1 human partners:{O60356}  
24438 Pathogen[ P03346] interacts with 1 human partners:{O60356}  
24439 Pathogen[ Q85601] interacts with 1 human partners:{O60356}  
24440 Pathogen[ P14079] interacts with 1 human partners:{O60356}  
24441 Pathogen[ P03383] interacts with 1 human partners:{O60356}  
24442 Pathogen[ P03410] interacts with 1 human partners:{O60356}  
24443 Pathogen[ P14075] interacts with 1 human partners:{O60356}  
24444 Pathogen[ P0C206] interacts with 1 human partners:{O60356}  
24445 Pathogen[ P03363] interacts with 1 human partners:{O60356}  
24446 [Cluster 2223]GO:0005978+P biological\_process [name] glycogen biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of glycogen, a polydisperse, highly branched glucan composed of chains of D-glucose residues." [ISBN  
24447 Pathogen[ Q2Q067] interacts with 9 human partners:{P31749;P35573;P36871;Q16851;Q96G03;P46976;P54840;P13807;Q9UQK1}  
24448 Pathogen[ P0C214] interacts with 12 human partners:{Q04446;P35573;P46976;Q96G03;P36871;Q15124;Q16851;O15488;P54840;P13807;P31749;Q9UQK1}  
24449 Pathogen[ P03346] interacts with 9 human partners:{Q9UQK1;P13807;P35573;P46976;P36871;Q16851;P31749;Q96G03;P54840}  
24450 Pathogen[ Q85601] interacts with 11 human partners:{P13807;P31749;Q9UQK1;Q16851;P46976;P35573;Q15124;P36871;Q04446;P54840;Q96G03}  
24451 Pathogen[ P14079] interacts with 11 human partners:{P31751;Q16851;P13807;Q15124;P46976;Q9UQK1;P35573;Q96G03;P54840;P36871;O15488}  
24452 Pathogen[ P03383] interacts with 8 human partners:{Q96G03;Q9UQK1;P31749;P13807;P35573;Q16851;P46976;P54840}  
24453 Pathogen[ P03410] interacts with 12 human partners:{P46976;Q16851;P36871;P54840;Q04446;P35573;P31749;Q15124;P13807;O15488;Q96G03;Q9UQK1}  
24454 Pathogen[ P14075] interacts with 8 human partners:{Q96G03;P46976;P54840;Q9UQK1;P31749;P35573;P13807;Q16851}  
24455 Pathogen[ P0C206] interacts with 12 human partners:{Q16851;P31749;P46976;Q96G03;Q9UQK1;Q04446;P13807;Q15124;P54840;P36871;O15488;P35573}  
24456 Pathogen[ P03363] interacts with 8 human partners:{P13807;Q16851;P31749;P54840;Q9UQK1;P35573;P46976;Q96G03}  
24457 [Cluster 2224]GO:2000649+P biological\_process [name] regulation of sodium ion transmembrane transporter activity [def] "Any process that modulates the frequency, rate or extent of sodium ion transmembrane transporter activity." [GOC  
24458 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9HD47;Q04917}  
24459 Pathogen[ P0C214] interacts with 2 human partners:{Q04917;Q9HD47}

24460 Pathogen[ P03346] interacts with 2 human partners:{Q9HD47;Q04917}  
24461 Pathogen[ Q85601] interacts with 2 human partners:{Q9HD47;Q04917}  
24462 Pathogen[ P14079] interacts with 2 human partners:{Q04917;Q9HD47}  
24463 Pathogen[ P03383] interacts with 1 human partners:{Q9HD47}  
24464 Pathogen[ P03410] interacts with 2 human partners:{Q04917;Q9HD47}  
24465 Pathogen[ P14075] interacts with 1 human partners:{Q9HD47}  
24466 Pathogen[ P0C206] interacts with 2 human partners:{Q04917;Q9HD47}  
24467 Pathogen[ P03363] interacts with 2 human partners:{Q9HD47;Q04917}  
24468 [Cluster 2225]GO:0010718+P biological\_process [name] positive regulation of epithelial to mesenchymal transition [def] "Any process that increases the rate, frequency, or extent of epithelial to mesenchymal transition. Epithelial to mesenchymal transition is where an epithelial cell loses apical/basolateral polarity, severs intercellular adhesive junctions, degrades basement membrane components and becomes a migratory mesenchymal cell." [GOC  
24469 Pathogen[ Q2Q067] interacts with 7 human partners:{Q9H4X1;Q13485;Q86UU0;Q9H7S9;P84022;Q9GZV5;Q15796}  
24470 Pathogen[ P0C214] interacts with 7 human partners:{Q9H4X1;P84022;Q9GZV5;Q13485;Q15796;Q86UU0;Q9H7S9}  
24471 Pathogen[ P03346] interacts with 8 human partners:{Q9H4X1;Q9GZV5;Q15796;P84022;Q95863;Q9H7S9;Q13485;Q86UU0}  
24472 Pathogen[ Q85601] interacts with 7 human partners:{Q9H4X1;Q9H7S9;Q86UU0;Q9GZV5;P84022;Q13485;Q15796}  
24473 Pathogen[ P14079] interacts with 5 human partners:{Q9GZV5;O43294;Q86UU0;Q9H7S9;Q13145}  
24474 Pathogen[ P03383] interacts with 7 human partners:{Q9H4X1;Q13485;Q86UU0;P84022;Q9H7S9;Q15796;Q9GZV5}  
24475 Pathogen[ P03410] interacts with 9 human partners:{P84022;Q9H4X1;Q13145;O43294;Q9GZV5;Q13485;Q9H7S9;Q15796;Q86UU0}  
24476 Pathogen[ P14075] interacts with 7 human partners:{Q86UU0;Q9GZV5;Q9H4X1;Q15796;Q13485;P84022;Q9H7S9}  
24477 Pathogen[ P0C206] interacts with 8 human partners:{P84022;Q9H4X1;Q86UU0;Q15796;Q9GZV5;Q9H7S9;O43294;Q13485}  
24478 Pathogen[ P03363] interacts with 7 human partners:{Q9H4X1;Q9H7S9;Q9GZV5;Q15796;P84022;Q86UU0;Q13485}  
24479 [Cluster 2226]GO:0072553+P biological\_process [name] terminal button organization [def] "A process that is carried out at the cellular level which results in the assembly, arrangement of constituent parts, or disassembly of a terminal button. A terminal button is the terminal inflated portion of the axon, containing the specialized apparatus necessary to release neurotransmitters." [GOC  
24480 Pathogen[ Q2Q067] interacts with 1 human partners:{095295}  
24481 Pathogen[ P0C214] interacts with 1 human partners:{095295}  
24482 Pathogen[ P03346] interacts with 1 human partners:{095295}  
24483 Pathogen[ Q85601] interacts with 1 human partners:{095295}  
24484 Pathogen[ P14079] interacts with 1 human partners:{095295}  
24485 Pathogen[ P03383] interacts with 1 human partners:{095295}  
24486 Pathogen[ P03410] interacts with 1 human partners:{095295}  
24487 Pathogen[ P14075] interacts with 1 human partners:{095295}  
24488 Pathogen[ P0C206] interacts with 1 human partners:{095295}  
24489 Pathogen[ P03363] interacts with 1 human partners:{095295}  
24490 [Cluster 2227]GO:0051017+P biological\_process [name] actin filament bundle assembly [def] "The assembly of actin filament bundles\_ actin filaments are on the same axis but may be oriented with the same or opposite polarities and may be packed with different levels of tightness." [GOC  
24491 Pathogen[ Q2Q067] interacts with 4 human partners:{Q14511;Q9Y6N9;P60953;Q96IZ0}  
24492 Pathogen[ P0C214] interacts with 5 human partners:{Q96IZ0;Q9Y6N9;P60953;Q16658;Q14511}  
24493 Pathogen[ P03346] interacts with 7 human partners:{Q9Y6N9;Q14511;P60953;Q08495;Q96IZ0;Q12929;Q16658}  
24494 Pathogen[ Q85601] interacts with 4 human partners:{Q96IZ0;Q9Y6N9;P60953;Q14511}  
24495 Pathogen[ P14079] interacts with 8 human partners:{Q12929;Q08495;Q16658;P35611;Q2M3G4;Q96IZ0;Q9Y6N9;Q05682}  
24496 Pathogen[ P03383] interacts with 3 human partners:{P60953;Q96IZ0;Q14511}  
24497 Pathogen[ P03410] interacts with 10 human partners:{Q16658;Q2M3G4;Q05682;Q14511;Q9Y6N9;Q08495;Q96IZ0;P60953;P35611;Q12929}  
24498 Pathogen[ P14075] interacts with 3 human partners:{P60953;Q14511;Q96IZ0}  
24499 Pathogen[ P0C206] interacts with 7 human partners:{Q96IZ0;Q9Y6N9;Q16658;Q2M3G4;P60953;Q08495;Q14511}  
24500 Pathogen[ P03363] interacts with 8 human partners:{Q9Y6N9;Q2M3G4;Q96IZ0;Q08495;Q14511;Q12929;Q16658;P60953}  
24501 [Cluster 2228]GO:0034629+P biological\_process [name] cellular protein complex localization [def] "A protein complex localization process that takes place at the cellular level\_ as a result, a protein complex is transported to, or maintained in, a specific location within a cell." [GOC  
24502 Pathogen[ Q2Q067] interacts with 2 human partners:{000401;015105}  
24503 Pathogen[ P0C214] interacts with 2 human partners:{015105;000401}  
24504 Pathogen[ P03346] interacts with 2 human partners:{015105;000401}

24505 Pathogen[ Q85601] interacts with 2 human partners:{000401;015105}  
24506 Pathogen[ P14079] interacts with 2 human partners:{015105;000401}  
24507 Pathogen[ P03383] interacts with 2 human partners:{000401;015105}  
24508 Pathogen[ P03410] interacts with 2 human partners:{000401;015105}  
24509 Pathogen[ P14075] interacts with 2 human partners:{000401;015105}  
24510 Pathogen[ P0C206] interacts with 2 human partners:{015105;000401}  
24511 Pathogen[ P03363] interacts with 2 human partners:{015105;000401}  
24512 [Cluster 2229]GO:0030263+P biological\_process [name] apoptotic chromosome condensation  
[def] "The compaction of chromatin during apoptosis." [GOC  
24513 Pathogen[ Q2Q067] interacts with 3 human partners:{P11388;Q9UKV3;O76075}  
24514 Pathogen[ P0C214] interacts with 3 human partners:{P11388;Q9UKV3;O76075}  
24515 Pathogen[ P03346] interacts with 3 human partners:{P11388;Q9UKV3;O76075}  
24516 Pathogen[ Q85601] interacts with 3 human partners:{O76075;Q9UKV3;P11388}  
24517 Pathogen[ P14079] interacts with 3 human partners:{P11388;O76075;Q9UKV3}  
24518 Pathogen[ P03383] interacts with 1 human partners:{Q9UKV3}  
24519 Pathogen[ P03410] interacts with 3 human partners:{O76075;Q9UKV3;P11388}  
24520 Pathogen[ P14075] interacts with 1 human partners:{Q9UKV3}  
24521 Pathogen[ P0C206] interacts with 3 human partners:{O76075;P11388;Q9UKV3}  
24522 Pathogen[ P03363] interacts with 2 human partners:{Q9UKV3;O76075}  
24523 [Cluster 2230]GO:0000463+P biological\_process [name] maturation of LSU-rRNA from  
tricistronic rRNA transcript (SSU-rRNA, 5.8S rRNA, LSU-rRNA) [def] "Any process  
involved in the maturation of a precursor Large SubUnit (LSU) ribosomal RNA (rRNA)  
molecule into a mature LSU-rRNA molecule from the pre-rRNA molecule originally produced  
as a tricistronic rRNA transcript that contains the Small Subunit (SSU) rRNA, 5.8S rRNA,  
and Large Subunit (LSU) in that order from 5' to 3' along the primary transcript." [GOC  
24524 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9GZL7;O00541;Q14137}  
24525 Pathogen[ P0C214] interacts with 3 human partners:{O00541;Q9GZL7;Q14137}  
24526 Pathogen[ P03346] interacts with 3 human partners:{O00541;Q9GZL7;Q14137}  
24527 Pathogen[ Q85601] interacts with 3 human partners:{O00541;Q9GZL7;Q14137}  
24528 Pathogen[ P14079] interacts with 3 human partners:{Q9GZL7;O00541;Q14137}  
24529 Pathogen[ P03383] interacts with 3 human partners:{O00541;Q9GZL7;Q14137}  
24530 Pathogen[ P03410] interacts with 3 human partners:{Q14137;Q9GZL7;O00541}  
24531 Pathogen[ P14075] interacts with 3 human partners:{Q9GZL7;O00541;Q14137}  
24532 Pathogen[ P0C206] interacts with 3 human partners:{Q14137;Q9GZL7;O00541}  
24533 Pathogen[ P03363] interacts with 3 human partners:{Q9GZL7;Q14137;O00541}  
24534 [Cluster 2231]GO:1901094+P  
24535 Pathogen[ Q2Q067] interacts with 1 human partners:{075381}  
24536 Pathogen[ P0C214] interacts with 1 human partners:{075381}  
24537 Pathogen[ P03346] interacts with 2 human partners:{075381;P50542}  
24538 Pathogen[ Q85601] interacts with 1 human partners:{075381}  
24539 Pathogen[ P14079] interacts with 2 human partners:{P50542;075381}  
24540 Pathogen[ P03383] interacts with 1 human partners:{075381}  
24541 Pathogen[ P03410] interacts with 2 human partners:{075381;P50542}  
24542 Pathogen[ P14075] interacts with 1 human partners:{075381}  
24543 Pathogen[ P0C206] interacts with 2 human partners:{075381;P50542}  
24544 Pathogen[ P03363] interacts with 1 human partners:{075381}  
24545 [Cluster 2232]GO:0008203+P biological\_process [name] cholesterol metabolic process  
[def] "The chemical reactions and pathways involving cholesterol, cholest-5-en-3  
beta-ol, the principal sterol of vertebrates and the precursor of many steroids,  
including bile acids and steroid hormones. It is a component of the plasma membrane  
lipid bilayer and of plasma lipoproteins and can be found in all animal tissues." [ISBN  
24546 Pathogen[ Q2Q067] interacts with 5 human  
partners:{P36956;Q15466;P20823;P14324;P49715}  
24547 Pathogen[ P0C214] interacts with 5 human  
partners:{Q13907;Q9BXS1;P14324;P22830;Q15466}  
24548 Pathogen[ P03346] interacts with 7 human  
partners:{P36956;Q12772;Q15466;P20823;P49715;Q9BXW6;P14324}  
24549 Pathogen[ Q85601] interacts with 7 human  
partners:{Q15466;Q12772;P36956;P14324;P49715;P20823;Q13907}  
24550 Pathogen[ P14079] interacts with 14 human  
partners:{Q9BXW6;Q9BXS1;Q9Y5U4;Q13907;P14324;Q0VD83;Q12772;P49715;P22830;P53602;Q9NW  
W5;Q15466;P36956;Q15503}  
24551 Pathogen[ P03383] interacts with 2 human partners:{Q15466;P14324}  
24552 Pathogen[ P03410] interacts with 14 human  
partners:{P53602;P36956;Q9NWW5;Q9Y5U4;Q12772;P22830;Q15466;Q0VD83;Q9UBY8;Q13907;O155  
03;Q9BXW6;P14324;Q9BXS1}  
24553 Pathogen[ P14075] interacts with 2 human partners:{P14324;Q15466}  
24554 Pathogen[ P0C206] interacts with 10 human  
partners:{Q15466;P49715;P36956;P14324;Q13907;Q9BXS1;P20823;P22830;Q9BXW6;Q12772}  
24555 Pathogen[ P03363] interacts with 2 human partners:{Q15466;Q9BXW6}  
24556 [Cluster 2233]GO:0010971+P biological\_process [name] positive regulation of G2/M  
transition of mitotic cell cycle [def] "Any process that increases the rate or extent  
of progression from G2 phase to M phase of the mitotic cell cycle." [GOC  
24557 Pathogen[ Q2Q067] interacts with 1 human partners:{060885}  
24558 Pathogen[ P0C214] interacts with 1 human partners:{060885}  
24559 Pathogen[ P03346] interacts with 1 human partners:{060885}

24560 Pathogen[ Q85601] interacts with 1 human partners:{060885}  
24561 Pathogen[ P14079] interacts with 1 human partners:{060885}  
24562 Pathogen[ P03383] interacts with 1 human partners:{060885}  
24563 Pathogen[ P03410] interacts with 1 human partners:{060885}  
24564 Pathogen[ P14075] interacts with 1 human partners:{060885}  
24565 Pathogen[ P0C206] interacts with 1 human partners:{060885}  
24566 Pathogen[ P03363] interacts with 1 human partners:{060885}  
24567 [Cluster 2234]GO:0035307+P biological\_process [name] positive regulation of protein dephosphorylation [def] "Any process that activates or increases the frequency, rate or extent of removal of phosphate groups from a protein." [GOC  
24568 Pathogen[ Q2Q067] interacts with 4 human partners:{Q86XL3;Q15172;Q8N9A8;Q15257}  
24569 Pathogen[ P0C214] interacts with 4 human partners:{Q8N9A8;Q15172;Q15257;Q86XL3}  
24570 Pathogen[ P03346] interacts with 4 human partners:{Q15172;Q15257;Q8N9A8;Q86XL3}  
24571 Pathogen[ Q85601] interacts with 4 human partners:{Q15172;Q86XL3;Q8N9A8;Q15257}  
24572 Pathogen[ P14079] interacts with 4 human partners:{Q15172;Q8N9A8;Q86XL3;P17405}  
24573 Pathogen[ P03383] interacts with 2 human partners:{Q15257;Q8N9A8}  
24574 Pathogen[ P03410] interacts with 5 human partners:{Q15172;Q15257;Q8N9A8;Q86XL3;P17405}  
24575 Pathogen[ P14075] interacts with 2 human partners:{Q15257;Q8N9A8}  
24576 Pathogen[ P0C206] interacts with 4 human partners:{Q86XL3;Q15172;Q15257;Q8N9A8}  
24577 Pathogen[ P03363] interacts with 4 human partners:{Q8N9A8;Q15172;Q15257;Q86XL3}  
24578 [Cluster 2235]GO:0034625+P biological\_process [name] fatty acid elongation, monounsaturated fatty acid [def] "Elongation of a fatty acid chain into which one C-C double bond has been introduced." [GOC  
24579 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9H5J4;Q9BW60;Q9HB03}  
24580 Pathogen[ P0C214] interacts with 3 human partners:{Q9HB03;Q9NYP7;Q9BW60}  
24581 Pathogen[ P03346] interacts with 3 human partners:{Q9BW60;Q9H5J4;Q9HB03}  
24582 Pathogen[ Q85601] interacts with 3 human partners:{Q9BW60;Q9H5J4;Q9HB03}  
24583 Pathogen[ P14079] interacts with 3 human partners:{Q9HB03;Q9BW60;Q9H5J4}  
24584 Pathogen[ P03383] interacts with 3 human partners:{Q9BW60;Q9H5J4;Q9HB03}  
24585 Pathogen[ P03410] interacts with 3 human partners:{Q9H5J4;Q9BW60;Q9HB03}  
24586 Pathogen[ P14075] interacts with 3 human partners:{Q9H5J4;Q9BW60;Q9HB03}  
24587 Pathogen[ P0C206] interacts with 3 human partners:{Q9HB03;Q9H5J4;Q9BW60}  
24588 Pathogen[ P03363] interacts with 1 human partners:{Q9H5J4}  
24589 [Cluster 2236]GO:0090004+P biological\_process [name] positive regulation of establishment of protein localization in plasma membrane [def] "Any process that increases the frequency, rate or extent of the directed movement of a protein to a specific location in the plasma membrane." [GOC  
24590 Pathogen[ Q2Q067] interacts with 4 human partners:{P31749;Q12959;P27986;Q9BX66}  
24591 Pathogen[ P0C214] interacts with 4 human partners:{Q9BX66;Q12959;P27986;P31749}  
24592 Pathogen[ P03346] interacts with 6 human partners:{Q9BX66;P31749;Q5VV41;Q969F2;P27986;Q12959}  
24593 Pathogen[ Q85601] interacts with 4 human partners:{P31749;Q9BX66;P27986;Q12959}  
24594 Pathogen[ P14079] interacts with 2 human partners:{Q9BX66;Q5VV41}  
24595 Pathogen[ P03383] interacts with 2 human partners:{P27986;P31749}  
24596 Pathogen[ P03410] interacts with 7 human partners:{P27986;Q969F2;Q12959;P31749;Q5VV41;P33176;Q9BX66}  
24597 Pathogen[ P14075] interacts with 2 human partners:{P31749;P27986}  
24598 Pathogen[ P0C206] interacts with 5 human partners:{P31749;Q969F2;P27986;Q9BX66;Q12959}  
24599 Pathogen[ P03363] interacts with 6 human partners:{Q12959;Q9BX66;Q5VV41;P33176;P31749;P27986}  
24600 [Cluster 2237]GO:0090081+P biological\_process [name] regulation of heart induction by regulation of canonical Wnt receptor signaling pathway [def] "Any process that modulates the rate, frequency or extent of canonical Wnt receptor signaling pathway that regulates heart induction. Canonical Wnt receptor signaling pathway involved in heart induction is the series of molecular signals initiated by binding of Wnt protein to a frizzled family receptor on the surface of the target cell, followed by relaying of the signal via beta-catenin, and ending with a change in transcription of target genes." [GOC  
24601 Pathogen[ Q2Q067] interacts with 1 human partners:{Q01860}  
24602 Pathogen[ P0C214] interacts with 1 human partners:{Q01860}  
24603 Pathogen[ P03346] interacts with 1 human partners:{Q01860}  
24604 Pathogen[ Q85601] interacts with 1 human partners:{Q01860}  
24605 Pathogen[ P14079] interacts with 1 human partners:{Q01860}  
24606 Pathogen[ P03383] interacts with 1 human partners:{Q01860}  
24607 Pathogen[ P03410] interacts with 1 human partners:{Q01860}  
24608 Pathogen[ P14075] interacts with 1 human partners:{Q01860}  
24609 Pathogen[ P0C206] interacts with 1 human partners:{Q01860}  
24610 Pathogen[ P03363] interacts with 1 human partners:{Q01860}  
24611 [Cluster 2238]GO:0010040+P biological\_process [name] response to iron(II) ion [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an iron(II) ion stimulus." [GOC  
24612 Pathogen[ Q2Q067] interacts with 2 human partners:{P21399;P27986}  
24613 Pathogen[ P0C214] interacts with 2 human partners:{P21399;P27986}

24614 Pathogen[ P03346] interacts with 2 human partners:{P21399;P27986}  
24615 Pathogen[ Q85601] interacts with 2 human partners:{P21399;P27986}  
24616 Pathogen[ P14079] interacts with 1 human partners:{P21399}  
24617 Pathogen[ P03383] interacts with 1 human partners:{P27986}  
24618 Pathogen[ P03410] interacts with 2 human partners:{P27986;P21399}  
24619 Pathogen[ P14075] interacts with 1 human partners:{P27986}  
24620 Pathogen[ P0C206] interacts with 2 human partners:{P27986;P21399}  
24621 Pathogen[ P03363] interacts with 1 human partners:{P27986}  
24622 [Cluster 2239]GO:0071897+P biological\_process [name] DNA biosynthetic process [def] "The cellular DNA metabolic process resulting in the formation of DNA, deoxyribonucleic acid, one of the two main types of nucleic acid, consisting of a long unbranched macromolecule formed from one or two strands of linked deoxyribonucleotides, the 3'-phosphate group of each constituent deoxyribonucleotide being joined in 3',5'-phosphodiester linkage to the 5'-hydroxyl group of the deoxyribose moiety of the next one." [GOC  
24623 Pathogen[ Q2Q067] interacts with 1 human partners:{P35232}  
24624 Pathogen[ P0C214] interacts with 1 human partners:{P35232}  
24625 Pathogen[ P03346] interacts with 1 human partners:{P35232}  
24626 Pathogen[ Q85601] interacts with 1 human partners:{P35232}  
24627 Pathogen[ P14079] interacts with 1 human partners:{P35232}  
24628 Pathogen[ P03383] interacts with 1 human partners:{P35232}  
24629 Pathogen[ P03410] interacts with 1 human partners:{P35232}  
24630 Pathogen[ P14075] interacts with 1 human partners:{P35232}  
24631 Pathogen[ P0C206] interacts with 1 human partners:{P35232}  
24632 Pathogen[ P03363] interacts with 1 human partners:{P35232}  
24633 [Cluster 2240]GO:0010972+P biological\_process [name] negative regulation of G2/M transition of mitotic cell cycle [def] "Any process that decreases the rate or extent of progression from G2 phase to M phase of the mitotic cell cycle." [GOC  
24634 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13642}  
24635 Pathogen[ P0C214] interacts with 1 human partners:{Q13642}  
24636 Pathogen[ P03346] interacts with 1 human partners:{Q13642}  
24637 Pathogen[ Q85601] interacts with 1 human partners:{Q13642}  
24638 Pathogen[ P14079] interacts with 1 human partners:{Q13642}  
24639 Pathogen[ P03383] interacts with 1 human partners:{Q13642}  
24640 Pathogen[ P03410] interacts with 1 human partners:{Q13642}  
24641 Pathogen[ P14075] interacts with 1 human partners:{Q13642}  
24642 Pathogen[ P0C206] interacts with 1 human partners:{Q13642}  
24643 Pathogen[ P03363] interacts with 1 human partners:{Q13642}  
24644 [Cluster 2241]GO:0006424+P biological\_process [name] glutamyl-tRNA aminoacylation [def] "The process of coupling glutamate to glutamyl-tRNA, catalyzed by glutamyl-tRNA synthetase. In tRNA aminoacylation, the amino acid is first activated by linkage to AMP and then transferred to either the 2'- or the 3'-hydroxyl group of the 3'- adenosine residue of the tRNA." [GOC  
24645 Pathogen[ Q2Q067] interacts with 1 human partners:{P07814}  
24646 Pathogen[ P0C214] interacts with 2 human partners:{P07814;Q5JPH6}  
24647 Pathogen[ P03346] interacts with 1 human partners:{P07814}  
24648 Pathogen[ Q85601] interacts with 1 human partners:{P07814}  
24649 Pathogen[ P14079] interacts with 2 human partners:{Q5JPH6;P07814}  
24650 Pathogen[ P03383] interacts with 2 human partners:{Q5JPH6;P07814}  
24651 Pathogen[ P03410] interacts with 2 human partners:{Q5JPH6;P07814}  
24652 Pathogen[ P14075] interacts with 2 human partners:{Q5JPH6;P07814}  
24653 Pathogen[ P0C206] interacts with 2 human partners:{P07814;Q5JPH6}  
24654 Pathogen[ P03363] interacts with 2 human partners:{Q5JPH6;P07814}  
24655 [Cluster 2242]GO:0016337+P biological\_process [name] cell-cell adhesion [def] "The attachment of one cell to another cell via adhesion molecules." [GOC  
24656 Pathogen[ Q2Q067] interacts with 10 human partners:{O75161;Q14160;P15924;P11831;Q12959;Q96F07;P25063;P60953;P35579;O60716}  
24657 Pathogen[ P0C214] interacts with 9 human partners:{O75161;O60716;P15924;Q96F07;P11831;P60953;P25063;Q12959;Q14160}  
24658 Pathogen[ P03346] interacts with 11 human partners:{P15924;O60716;Q96F07;P11831;P35579;P60953;O75161;Q9UI47;P25063;Q14160;Q12959}  
24659 Pathogen[ Q85601] interacts with 9 human partners:{O75161;P11831;Q96F07;P35579;P15924;O60716;Q14160;Q12959;P60953}  
24660 Pathogen[ P14079] interacts with 12 human partners:{O75161;P35579;Q9UI47;P15924;Q9HBM0;Q96GC9;P25063;O76027;Q96F07;Q9BZX4;O15259;O60716}  
24661 Pathogen[ P03383] interacts with 9 human partners:{P15924;O60716;P11831;Q14160;P60953;P25063;Q96F07;O75161;P35579}  
24662 Pathogen[ P03410] interacts with 17 human partners:{P11831;Q9HBM0;P15924;Q96GC9;O15259;Q12959;O76027;O60716;Q9BZX4;P35579;O75161;Q14160;P25063;P60953;Q9UI47;Q96F07;Q15517}  
24663 Pathogen[ P14075] interacts with 10 human partners:{P60953;Q96F07;Q14160;P11831;O75161;P35579;Q9HBM0;O60716;P25063;P15924}  
24664 Pathogen[ P0C206] interacts with 12 human partners:{O60716;Q96F07;O75161;Q9UI47;P25063;Q14160;P35579;P60953;P11831;P15924;Q9HB

M0;Q12959}

24665 Pathogen[ P03363] interacts with 11 human partners: {Q12959;O75161;Q9UI47;P35579;Q14160;Q96F07;P15924;P11831;O15259;P60953;O60716}

24666 [Cluster 2243]GO:0042035+P biological\_process [name] regulation of cytokine biosynthetic process [def] "Any process that modulates the frequency, rate or extent of the chemical reactions and pathways resulting in the formation of cytokines." [GOC

24667 Pathogen[ Q2Q067] interacts with 3 human partners: {O00425;Q9Y6M1;Q9HBT7}

24668 Pathogen[ P0C214] interacts with 4 human partners: {O00425;Q9NZI8;Q9Y6M1;Q9HBT7}

24669 Pathogen[ P03346] interacts with 4 human partners: {Q9Y6M1;O00425;Q9NZI8;Q9HBT7}

24670 Pathogen[ Q85601] interacts with 3 human partners: {Q9HBT7;Q9Y6M1;O00425}

24671 Pathogen[ P14079] interacts with 3 human partners: {Q9HBT7;Q9Y6M1;O00425}

24672 Pathogen[ P03383] interacts with 2 human partners: {Q9HBT7;O00425}

24673 Pathogen[ P03410] interacts with 3 human partners: {Q9HBT7;O00425;Q9Y6M1}

24674 Pathogen[ P14075] interacts with 2 human partners: {Q9HBT7;O00425}

24675 Pathogen[ P0C206] interacts with 3 human partners: {Q9HBT7;Q9Y6M1;O00425}

24676 Pathogen[ P03363] interacts with 4 human partners: {O00425;Q9Y6M1;Q9HBT7;Q9NZI8}

24677 [Cluster 2244]GO:0006450+P biological\_process [name] regulation of translational fidelity [def] "Any process that modulates the ability of the translational apparatus to interpret the genetic code." [GOC

24678 Pathogen[ Q2Q067] interacts with 3 human partners: {P46782;P41252;Q9P2J5}

24679 Pathogen[ P0C214] interacts with 8 human partners: {Q9NSE4;P41252;Q15031;P49588;P26640;Q5ST30;P46782;Q9P2J5}

24680 Pathogen[ P03346] interacts with 3 human partners: {P41252;P46782;Q9P2J5}

24681 Pathogen[ Q85601] interacts with 3 human partners: {Q9P2J5;P46782;P41252}

24682 Pathogen[ P14079] interacts with 9 human partners: {Q9P2J5;O43716;Q15031;Q5ST30;P46782;P41252;P26640;Q9NSE4;P49588}

24683 Pathogen[ P03383] interacts with 4 human partners: {Q9P2J5;Q15031;P46782;P41252}

24684 Pathogen[ P03410] interacts with 7 human partners: {Q9NSE4;Q5ST30;P49588;Q9P2J5;P46782;P41252;P26640}

24685 Pathogen[ P14075] interacts with 5 human partners: {P41252;P46782;Q9P2J5;Q9NSE4;Q15031}

24686 Pathogen[ P0C206] interacts with 7 human partners: {Q9NSE4;P41252;Q5ST30;P26640;P46782;Q15031;Q9P2J5}

24687 Pathogen[ P03363] interacts with 4 human partners: {P41252;P46782;Q9P2J5;Q15031}

24688 [Cluster 2245]GO:0006779+P biological\_process [name] porphyrin-containing compound biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of any member of a large group of derivatives or analogs of porphyrin. Porphyrin consists of a ring of four pyrrole nuclei linked each to the next at their alpha positions through a methine group." [GOC

24689 Pathogen[ Q2Q067] interacts with 3 human partners: {P10746;P06132;P08397}

24690 Pathogen[ P0C214] interacts with 7 human partners: {P06132;P16157;Q9HA92;P10746;P08397;P36551;P22830}

24691 Pathogen[ P03346] interacts with 5 human partners: {P02549;P11277;P10746;P16157;P06132}

24692 Pathogen[ Q85601] interacts with 4 human partners: {P16157;P10746;P06132;P08397}

24693 Pathogen[ P14079] interacts with 9 human partners: {P10746;P16157;P06132;P08397;Q9HA92;P22830;P11277;P36551;P02549}

24694 Pathogen[ P03383] interacts with 2 human partners: {P06132;P08397}

24695 Pathogen[ P03410] interacts with 9 human partners: {P08397;P16157;P06132;P02549;P36551;P10746;Q9HA92;P22830;P11277}

24696 Pathogen[ P14075] interacts with 2 human partners: {P06132;P08397}

24697 Pathogen[ P0C206] interacts with 8 human partners: {P10746;Q9HA92;P36551;P16157;P22830;P11277;P08397;P06132}

24698 Pathogen[ P03363] interacts with 4 human partners: {P11277;P02549;P16157;P06132}

24699 [Cluster 2246]GO:0042790+P biological\_process [name] transcription of nuclear large rRNA transcript from RNA polymerase I promoter [def] "The synthesis of the large ribosomal RNA (rRNA) transcript which encodes several rRNAs, e.g. in mammals 28S, 18S and 5.8S, from a nuclear DNA template transcribed by RNA polymerase I." [GOC

24700 Pathogen[ Q2Q067] interacts with 1 human partners: {Q13428}

24701 Pathogen[ P0C214] interacts with 1 human partners: {Q13428}

24702 Pathogen[ P03346] interacts with 1 human partners: {Q13428}

24703 Pathogen[ Q85601] interacts with 1 human partners: {Q13428}

24704 Pathogen[ P14079] interacts with 1 human partners: {Q13428}

24705 Pathogen[ P03383] interacts with 1 human partners: {Q13428}

24706 Pathogen[ P03410] interacts with 1 human partners: {Q13428}

24707 Pathogen[ P14075] interacts with 1 human partners: {Q13428}

24708 Pathogen[ P0C206] interacts with 1 human partners: {Q13428}

24709 Pathogen[ P03363] interacts with 1 human partners: {Q13428}

24710 [Cluster 2247]GO:0001958+P biological\_process [name] endochondral ossification [def] "The formation of bone by the replacement of cartilage tissue with mineralized bone." [ISBN

24711 Pathogen[ Q2Q067] interacts with 3 human partners: {Q14814;Q15742;Q13506}

24712 Pathogen[ P0C214] interacts with 4 human partners: {Q15742;Q14814;Q13506;P35520}

24713 Pathogen[ P03346] interacts with 4 human partners: {Q14814;Q15742;Q13506;P56178}

24714 Pathogen[ Q85601] interacts with 3 human partners: {Q14814;Q13506;Q15742}



24715 Pathogen[ P14079] interacts with 4 human partners:{Q13506;Q06413;Q15742;Q14814}  
24716 Pathogen[ P03383] interacts with 3 human partners:{Q15742;Q14814;Q13506}  
24717 Pathogen[ P03410] interacts with 3 human partners:{Q14814;Q15742;Q13506}  
24718 Pathogen[ P14075] interacts with 3 human partners:{Q13506;Q15742;Q14814}  
24719 Pathogen[ P0C206] interacts with 3 human partners:{Q15742;Q14814;Q13506}  
24720 Pathogen[ P03363] interacts with 3 human partners:{Q14814;Q13506;Q15742}  
24721 [Cluster 2248]GO:0045090+P biological\_process [name] retroviral genome replication  
[def] "Any process involved in the replication of a retroviral genome. Retroviruses use  
RNA as their nucleic acid and reverse transcriptase to copy their genome into the DNA of  
the host cells chromosomes." [GOC  
24722 Pathogen[ Q2Q067] interacts with 2 human partners:{000267;Q12824}  
24723 Pathogen[ P0C214] interacts with 2 human partners:{Q12824;000267}  
24724 Pathogen[ P03346] interacts with 2 human partners:{Q12824;000267}  
24725 Pathogen[ Q85601] interacts with 2 human partners:{000267;Q12824}  
24726 Pathogen[ P14079] interacts with 2 human partners:{Q12824;000267}  
24727 Pathogen[ P03383] interacts with 2 human partners:{Q12824;000267}  
24728 Pathogen[ P03410] interacts with 2 human partners:{000267;Q12824}  
24729 Pathogen[ P14075] interacts with 2 human partners:{Q12824;000267}  
24730 Pathogen[ P0C206] interacts with 2 human partners:{Q12824;000267}  
24731 Pathogen[ P03363] interacts with 2 human partners:{000267;Q12824}  
24732 [Cluster 2249]GO:0045861+P biological\_process [name] negative regulation of  
proteolysis [def] "Any process that stops, prevents, or reduces the frequency, rate or  
extent of the hydrolysis of a peptide bond or bonds within a protein." [GOC  
24733 Pathogen[ Q2Q067] interacts with 2 human partners:{P48595;P27986}  
24734 Pathogen[ P0C214] interacts with 4 human partners:{P46379;P07093;P27986;P48595}  
24735 Pathogen[ P03346] interacts with 4 human partners:{P46379;Q96KC8;P27986;P48595}  
24736 Pathogen[ Q85601] interacts with 4 human partners:{P46379;P27986;P48595;P07093}  
24737 Pathogen[ P14079] interacts with 1 human partners:{P48595}  
24738 Pathogen[ P03383] interacts with 2 human partners:{P27986;P48595}  
24739 Pathogen[ P03410] interacts with 3 human partners:{P27986;Q9UBY8;P48595}  
24740 Pathogen[ P14075] interacts with 2 human partners:{P48595;P27986}  
24741 Pathogen[ P0C206] interacts with 3 human partners:{P27986;P48595;P46379}  
24742 Pathogen[ P03363] interacts with 3 human partners:{P46379;P48595;P27986}  
24743 [Cluster 2250]GO:0000244+P biological\_process [name] assembly of spliceosomal  
tri-snRNP [def] "The formation of a tri-snRNP complex containing U4 and U6 (or U4atac  
and U6atac) snRNAs and U5 snRNAs and associated proteins. This includes reannealing of  
U4 and U6 (or U4atac and U6atac) snRNAs released from previous rounds of splicing to  
reform the U4/U6 snRNP (or U4atac/U6atac snRNP) as well as the subsequent association of  
the U5 snRNP with the U4/U6 snRNP (or U4atac/U6atac snRNP) to form a tri-snRNP that is  
ready to reassemble into another spliceosome complex." [ISBN  
24744 Pathogen[ Q2Q067] interacts with 5 human  
partners:{075494;Q8WWY3;O95400;O94906;Q9UHI6}  
24745 Pathogen[ P0C214] interacts with 5 human  
partners:{O95400;O94906;Q9UHI6;O75494;Q8WWY3}  
24746 Pathogen[ P03346] interacts with 5 human  
partners:{O95400;O94906;Q9UHI6;Q8WWY3;O75494}  
24747 Pathogen[ Q85601] interacts with 5 human  
partners:{O75494;O94906;Q9UHI6;Q8WWY3;O95400}  
24748 Pathogen[ P14079] interacts with 5 human  
partners:{O94906;Q9UHI6;Q8WWY3;O95400;O75494}  
24749 Pathogen[ P03383] interacts with 5 human  
partners:{O75494;Q9UHI6;O95400;O94906;Q8WWY3}  
24750 Pathogen[ P03410] interacts with 5 human  
partners:{Q8WWY3;O94906;O95400;Q9UHI6;O75494}  
24751 Pathogen[ P14075] interacts with 5 human  
partners:{O95400;O75494;O94906;Q9UHI6;Q8WWY3}  
24752 Pathogen[ P0C206] interacts with 5 human  
partners:{O75494;O95400;Q8WWY3;O94906;Q9UHI6}  
24753 Pathogen[ P03363] interacts with 5 human  
partners:{O95400;Q9UHI6;Q8WWY3;O94906;O75494}  
24754 [Cluster 2251]GO:0043627+P biological\_process [name] response to estrogen stimulus  
[def] "Any process that results in a change in state or activity of a cell or an  
organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as  
a result of stimulus by an estrogen, C18 steroid hormones that can stimulate the  
development of female sexual characteristics." [GOC  
24755 Pathogen[ Q2Q067] interacts with 11 human  
partners:{P24385;Q96RK1;Q8N1N5;O14686;P08727;Q99966;P25063;Q8N895;O43541;P53805;Q9UB  
L3}  
24756 Pathogen[ P0C214] interacts with 9 human  
partners:{P24385;P05121;Q99966;Q96RK1;O43541;P25063;P08727;P53805;Q8N895}  
24757 Pathogen[ P03346] interacts with 12 human  
partners:{P53805;Q99966;P24385;P08727;Q8N1N5;Q15291;Q8N895;Q9UBL3;O43541;O14686;Q96R  
K1;P25063}  
24758 Pathogen[ Q85601] interacts with 10 human  
partners:{Q96RK1;P24385;O43541;Q99966;O14686;Q8N895;Q9UBL3;P05121;P53805;P08727}  
24759 Pathogen[ P14079] interacts with 9 human

24760 partners:{Q8N895;Q9UBL3;Q99966;P53805;Q8N1N5;P25063;Q96RK1;O43541;P08727}  
Pathogen[ P03383] interacts with 8 human

24761 partners:{P08727;P25063;P53805;P24385;Q8N1N5;Q96RK1;Q8N895;O43541}  
Pathogen[ P03410] interacts with 10 human

24762 partners:{P05121;Q8N1N5;P24385;P53805;P25063;O43541;Q96RK1;Q8N895;P08727;Q99966}  
Pathogen[ P14075] interacts with 8 human

24763 partners:{P08727;O43541;Q96RK1;P53805;Q8N1N5;Q8N895;P24385;P25063}  
Pathogen[ P0C206] interacts with 12 human

24764 partners:{O43541;P53805;P08727;O14686;Q8N895;P25063;Q8N1N5;Q96RK1;Q99966;Q9UBL3;P05121;P24385}  
Pathogen[ P03363] interacts with 10 human

24765 partners:{Q15291;P53805;Q9UBL3;Q8N1N5;Q96RK1;P08727;O43541;Q8N895;P24385;O14686}  
[Cluster 2252]GO:0045404+P biological\_process [name] positive regulation of interleukin-4 biosynthetic process [def] "Any process that activates or increases the frequency, rate or extent of the chemical reactions and pathways resulting in the formation of interleukin-4." [GOC

24766 Pathogen[ Q2Q067] interacts with 1 human partners:{Q15306}  
24767 Pathogen[ P0C214] interacts with 1 human partners:{Q15306}  
24768 Pathogen[ P03346] interacts with 1 human partners:{Q15306}  
24769 Pathogen[ Q85601] interacts with 1 human partners:{Q15306}  
24770 Pathogen[ P14079] interacts with 1 human partners:{Q15306}  
24771 Pathogen[ P03383] interacts with 1 human partners:{Q15306}  
24772 Pathogen[ P03410] interacts with 1 human partners:{Q15306}  
24773 Pathogen[ P14075] interacts with 1 human partners:{Q15306}  
24774 Pathogen[ P0C206] interacts with 1 human partners:{Q15306}  
24775 Pathogen[ P03363] interacts with 1 human partners:{Q15306}

24776 [Cluster 2253]GO:2000078+P biological\_process [name] positive regulation of type B pancreatic cell development [def] "Any process that activates or increases the frequency, rate or extent of pancreatic B cell development." [GOC

24777 Pathogen[ Q2Q067] interacts with 1 human partners:{P48380}  
24778 Pathogen[ P0C214] interacts with 2 human partners:{Q92934;P48380}  
24779 Pathogen[ P03346] interacts with 2 human partners:{P48380;P78426}  
24780 Pathogen[ Q85601] interacts with 1 human partners:{P48380}  
24781 Pathogen[ P14079] interacts with 2 human partners:{P48380;Q92934}  
24782 Pathogen[ P03383] interacts with 1 human partners:{P48380}  
24783 Pathogen[ P03410] interacts with 2 human partners:{Q92934;P48380}  
24784 Pathogen[ P14075] interacts with 1 human partners:{P48380}  
24785 Pathogen[ P0C206] interacts with 2 human partners:{P48380;Q92934}  
24786 Pathogen[ P03363] interacts with 1 human partners:{P48380}

24787 [Cluster 2254]GO:0006002+P biological\_process [name] fructose 6-phosphate metabolic process [def] "The chemical reactions and pathways involving fructose 6-phosphate, also known as F6P. The D-enantiomer is an important intermediate in glycolysis, gluconeogenesis, and fructose metabolism." [ISBN

24788 Pathogen[ Q2Q067] interacts with 2 human partners:{P37837;P09467}  
24789 Pathogen[ P0C214] interacts with 2 human partners:{P37837;P09467}  
24790 Pathogen[ P03346] interacts with 2 human partners:{P09467;P37837}  
24791 Pathogen[ Q85601] interacts with 2 human partners:{P37837;P09467}  
24792 Pathogen[ P14079] interacts with 2 human partners:{P09467;P37837}  
24793 Pathogen[ P03383] interacts with 2 human partners:{P09467;P37837}  
24794 Pathogen[ P03410] interacts with 2 human partners:{P37837;P09467}  
24795 Pathogen[ P14075] interacts with 2 human partners:{P37837;P09467}  
24796 Pathogen[ P0C206] interacts with 2 human partners:{P09467;P37837}  
24797 Pathogen[ P03363] interacts with 1 human partners:{P37837}

24798 [Cluster 2255]GO:0043587+P biological\_process [name] tongue morphogenesis [def] "The process in which the anatomical structures of the tongue are generated and organized. The tongue is the movable, muscular organ on the floor of the mouth of most vertebrates, in man other mammals is the principal organ of taste, aids in the prehension of food, in swallowing, and in modifying the voice as in speech." [GOC

24799 Pathogen[ Q2Q067] interacts with 2 human partners:{P13646;P31276}  
24800 Pathogen[ P0C214] interacts with 2 human partners:{P13646;P31276}  
24801 Pathogen[ P03346] interacts with 2 human partners:{P13646;P31276}  
24802 Pathogen[ Q85601] interacts with 2 human partners:{P13646;P31276}  
24803 Pathogen[ P14079] interacts with 2 human partners:{P13646;P31276}  
24804 Pathogen[ P03383] interacts with 2 human partners:{P31276;P13646}  
24805 Pathogen[ P03410] interacts with 2 human partners:{P13646;P31276}  
24806 Pathogen[ P14075] interacts with 2 human partners:{P13646;P31276}  
24807 Pathogen[ P0C206] interacts with 2 human partners:{P13646;P31276}  
24808 Pathogen[ P03363] interacts with 2 human partners:{P31276;P13646}

24809 [Cluster 2256]GO:0031573+P biological\_process [name] intra-S DNA damage checkpoint [def] "A cell cycle checkpoint that slows DNA synthesis in response to DNA damage by the prevention of new origin firing and the stabilization of slow replication fork progression." [GOC

24810 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9BVW5;Q14676;Q01831}  
24811 Pathogen[ P0C214] interacts with 3 human partners:{Q9BVW5;Q14676;Q01831}  
24812 Pathogen[ P03346] interacts with 3 human partners:{Q14676;Q01831;Q9BVW5}  
24813 Pathogen[ Q85601] interacts with 3 human partners:{Q01831;Q14676;Q9BVW5}

24814 Pathogen[ P14079] interacts with 3 human partners:{Q14676;Q01831;Q9BVW5}  
24815 Pathogen[ P03383] interacts with 3 human partners:{Q9BVW5;Q01831;Q14676}  
24816 Pathogen[ P03410] interacts with 3 human partners:{Q9BVW5;Q01831;Q14676}  
24817 Pathogen[ P14075] interacts with 3 human partners:{Q01831;Q9BVW5;Q14676}  
24818 Pathogen[ P0C206] interacts with 3 human partners:{Q9BVW5;Q14676;Q01831}  
24819 Pathogen[ P03363] interacts with 3 human partners:{Q01831;Q9BVW5;Q14676}  
24820 [Cluster 2257]GO:0045737+P biological\_process [name] positive regulation of cyclin-dependent protein kinase activity [def] "Any process that activates or increases the frequency, rate or extent of CDK activity." [GOC  
24821 Pathogen[ Q2Q067] interacts with 6 human partners:{P30281;O75832;P24385;P30279;Q5MJ70;Q8ND76}  
24822 Pathogen[ P0C214] interacts with 6 human partners:{Q8ND76;P24385;O75832;P30281;P30279;Q5MJ70}  
24823 Pathogen[ P03346] interacts with 6 human partners:{P30281;Q8ND76;P24385;P30279;Q5MJ70;O75832}  
24824 Pathogen[ Q85601] interacts with 6 human partners:{P30281;P24385;O75832;Q8ND76;P30279;Q5MJ70}  
24825 Pathogen[ P14079] interacts with 3 human partners:{Q5MJ70;O75832;Q8ND76}  
24826 Pathogen[ P03383] interacts with 6 human partners:{P24385;P30279;O75832;Q8ND76;P30281;Q5MJ70}  
24827 Pathogen[ P03410] interacts with 6 human partners:{P30279;P24385;P30281;Q5MJ70;Q8ND76;O75832}  
24828 Pathogen[ P14075] interacts with 6 human partners:{Q5MJ70;O75832;P30281;P30279;Q8ND76;P24385}  
24829 Pathogen[ P0C206] interacts with 6 human partners:{O75832;P30279;Q8ND76;Q5MJ70;P24385;P30281}  
24830 Pathogen[ P03363] interacts with 5 human partners:{P30279;Q8ND76;Q5MJ70;P24385;P30281}  
24831 [Cluster 2258]GO:0048619+P biological\_process [name] embryonic hindgut morphogenesis [def] "The process in which the anatomical structures of the hindgut are generated and organized, during the embryonic phase." [GOC  
24832 Pathogen[ Q2Q067] interacts with 2 human partners:{P36402;Q9NYF0}  
24833 Pathogen[ P0C214] interacts with 2 human partners:{P36402;Q9NYF0}  
24834 Pathogen[ P03346] interacts with 4 human partners:{P31271;P35453;P36402;Q9NYF0}  
24835 Pathogen[ Q85601] interacts with 3 human partners:{Q9NYF0;P36402;P31271}  
24836 Pathogen[ P14079] interacts with 3 human partners:{P31271;P36402;Q9NYF0}  
24837 Pathogen[ P03383] interacts with 2 human partners:{P36402;Q9NYF0}  
24838 Pathogen[ P03410] interacts with 2 human partners:{P36402;Q9NYF0}  
24839 Pathogen[ P14075] interacts with 2 human partners:{P36402;Q9NYF0}  
24840 Pathogen[ P0C206] interacts with 3 human partners:{P31271;Q9NYF0;P36402}  
24841 Pathogen[ P03363] interacts with 4 human partners:{P35453;P36402;P31271;Q9NYF0}  
24842 [Cluster 2259]GO:0071383+P biological\_process [name] cellular response to steroid hormone stimulus [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a steroid hormone stimulus." [GOC  
24843 Pathogen[ Q2Q067] interacts with 2 human partners:{P68036;O94763}  
24844 Pathogen[ P0C214] interacts with 2 human partners:{Q8TDB4;O94763}  
24845 Pathogen[ P03346] interacts with 3 human partners:{P68036;O94763;Q8TDB4}  
24846 Pathogen[ Q85601] interacts with 3 human partners:{Q8TDB4;P68036;O94763}  
24847 Pathogen[ P14079] interacts with 3 human partners:{P68036;O94763;Q8TDB4}  
24848 Pathogen[ P03383] interacts with 3 human partners:{Q8TDB4;O94763;P68036}  
24849 Pathogen[ P03410] interacts with 3 human partners:{O94763;P68036;Q8TDB4}  
24850 Pathogen[ P14075] interacts with 3 human partners:{P68036;O94763;Q8TDB4}  
24851 Pathogen[ P0C206] interacts with 3 human partners:{P68036;O94763;Q8TDB4}  
24852 Pathogen[ P03363] interacts with 2 human partners:{O94763;P68036}  
24853 [Cluster 2260]GO:0035094+P biological\_process [name] response to nicotine [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a nicotine stimulus." [CHEBI  
24854 Pathogen[ Q2Q067] interacts with 1 human partners:{Q99933}  
24855 Pathogen[ P0C214] interacts with 1 human partners:{Q99933}  
24856 Pathogen[ P03346] interacts with 2 human partners:{P78426;Q99933}  
24857 Pathogen[ Q85601] interacts with 1 human partners:{Q99933}  
24858 Pathogen[ P14079] interacts with 1 human partners:{Q99933}  
24859 Pathogen[ P03383] interacts with 1 human partners:{Q99933}  
24860 Pathogen[ P03410] interacts with 1 human partners:{Q99933}  
24861 Pathogen[ P14075] interacts with 1 human partners:{Q99933}  
24862 Pathogen[ P0C206] interacts with 1 human partners:{Q99933}  
24863 Pathogen[ P03363] interacts with 1 human partners:{Q99933}  
24864 [Cluster 2261]GO:0043488+P biological\_process [name] regulation of mRNA stability [def] "Any process that modulates the propensity of mRNA molecules to degradation. Includes processes that both stabilize and destabilize mRNAs." [GOC  
24865 Pathogen[ Q2Q067] interacts with 8 human partners:{Q14103;P27695;Q92994;Q9Y2V2;P47974;P26651;Q8NC51;Q07352}  
24866 Pathogen[ P0C214] interacts with 9 human partners:{P27695;Q9Y2V2;Q5JVF3;Q07352;Q14103;Q92994;P26651;Q8NC51;P47974}

24867 Pathogen[ P03346] interacts with 8 human partners: {Q8NC51;Q9Y2V2;Q14103;P47974;Q07352;Q92994;P27695;P26651}

24868 Pathogen[ Q85601] interacts with 8 human partners: {Q8NC51;Q92994;Q14103;Q07352;P47974;P26651;Q9Y2V2;P27695}

24869 Pathogen[ P14079] interacts with 8 human partners: {Q92994;Q14103;P47974;Q8NC51;P27695;Q5JVF3;Q9Y2V2;Q07352}

24870 Pathogen[ P03383] interacts with 7 human partners: {Q07352;Q92994;Q14103;P26651;P27695;Q9Y2V2;Q8NC51}

24871 Pathogen[ P03410] interacts with 9 human partners: {Q14103;Q92994;Q9Y2V2;P26651;Q5JVF3;P47974;P27695;Q07352;Q8NC51}

24872 Pathogen[ P14075] interacts with 7 human partners: {Q14103;P27695;P26651;Q8NC51;Q9Y2V2;Q92994;Q07352}

24873 Pathogen[ P0C206] interacts with 9 human partners: {P27695;Q14103;P26651;Q9Y2V2;Q5JVF3;Q92994;Q07352;Q8NC51;P47974}

24874 Pathogen[ P03363] interacts with 7 human partners: {Q8NC51;Q9Y2V2;Q07352;Q9BX46;Q14103;P26651;P47974}

24875 [Cluster 2262]GO:0070102+P biological\_process [name] interleukin-6-mediated signaling pathway [def] "A series of molecular events generated as a consequence of interleukin-6 binding to a cell surface receptor." [GOC]

24876 Pathogen[ Q2Q067] interacts with 2 human partners: {P40763;Q6PD62}

24877 Pathogen[ P0C214] interacts with 2 human partners: {P40763;Q6PD62}

24878 Pathogen[ P03346] interacts with 2 human partners: {Q6PD62;P40763}

24879 Pathogen[ Q85601] interacts with 2 human partners: {Q6PD62;P40763}

24880 Pathogen[ P14079] interacts with 1 human partners: {Q6PD62}

24881 Pathogen[ P03383] interacts with 1 human partners: {Q6PD62}

24882 Pathogen[ P03410] interacts with 2 human partners: {Q6PD62;P40763}

24883 Pathogen[ P14075] interacts with 1 human partners: {Q6PD62}

24884 Pathogen[ P0C206] interacts with 2 human partners: {Q6PD62;P40763}

24885 Pathogen[ P03363] interacts with 2 human partners: {Q13480;Q6PD62}

24886 [Cluster 2263]GO:0021854+P biological\_process [name] hypothalamus development [def] "The progression of the hypothalamus region of the forebrain, from its initial formation to its mature state." [GO\_REF]

24887 Pathogen[ Q2Q067] interacts with 2 human partners: {P14921;Q9H4S2}

24888 Pathogen[ P0C214] interacts with 1 human partners: {P14921}

24889 Pathogen[ P03346] interacts with 4 human partners: {Q9H4S2;P41225;P51843;P14921}

24890 Pathogen[ Q85601] interacts with 2 human partners: {P14921;Q9H4S2}

24891 Pathogen[ P14079] interacts with 2 human partners: {O14949;Q15042}

24892 Pathogen[ P03383] interacts with 1 human partners: {P14921}

24893 Pathogen[ P03410] interacts with 3 human partners: {O14949;Q15042;P14921}

24894 Pathogen[ P14075] interacts with 1 human partners: {P14921}

24895 Pathogen[ P0C206] interacts with 2 human partners: {P14921;Q9H4S2}

24896 Pathogen[ P03363] interacts with 2 human partners: {P14921;Q9H4S2}

24897 [Cluster 2264]GO:0001967+P biological\_process [name] suckling behavior [def] "Specific actions of a newborn or infant mammal that result in the derivation of nourishment from the breast." [GOC]

24898 Pathogen[ Q2Q067] interacts with 3 human partners: {A6NFD8;Q96BD5;Q9UI36}

24899 Pathogen[ P0C214] interacts with 2 human partners: {Q96BD5;Q9UI36}

24900 Pathogen[ P03346] interacts with 3 human partners: {A6NFD8;Q96BD5;Q9UI36}

24901 Pathogen[ Q85601] interacts with 3 human partners: {Q96BD5;A6NFD8;Q9UI36}

24902 Pathogen[ P14079] interacts with 3 human partners: {Q96BD5;Q9UI36;A6NFD8}

24903 Pathogen[ P03383] interacts with 2 human partners: {Q96BD5;Q9UI36}

24904 Pathogen[ P03410] interacts with 3 human partners: {Q9UI36;A6NFD8;Q96BD5}

24905 Pathogen[ P14075] interacts with 2 human partners: {Q96BD5;Q9UI36}

24906 Pathogen[ P0C206] interacts with 3 human partners: {A6NFD8;Q9UI36;Q96BD5}

24907 Pathogen[ P03363] interacts with 3 human partners: {Q96BD5;Q9UI36;A6NFD8}

24908 [Cluster 2265]GO:0008347+P biological\_process [name] glial cell migration [def] "The orderly movement of a glial cell, non-neuronal cells that provide support and nutrition, maintain homeostasis, form myelin, and participate in signal transmission in the nervous system." [GOC]

24909 Pathogen[ Q2Q067] interacts with 1 human partners: {Q99608}

24910 Pathogen[ P0C214] interacts with 1 human partners: {Q99608}

24911 Pathogen[ P03346] interacts with 1 human partners: {Q99608}

24912 Pathogen[ Q85601] interacts with 1 human partners: {Q99608}

24913 Pathogen[ P14079] interacts with 1 human partners: {Q99608}

24914 Pathogen[ P03383] interacts with 1 human partners: {Q99608}

24915 Pathogen[ P03410] interacts with 1 human partners: {Q99608}

24916 Pathogen[ P14075] interacts with 1 human partners: {Q99608}

24917 Pathogen[ P0C206] interacts with 1 human partners: {Q99608}

24918 Pathogen[ P03363] interacts with 1 human partners: {Q99608}

24919 [Cluster 2266]GO:0055082+P biological\_process [name] cellular chemical homeostasis [def] "Any biological process involved in the maintenance of an internal steady state of a chemical at the level of the cell." [GOC]

24920 Pathogen[ Q2Q067] interacts with 1 human partners: {Q8N5D0}

24921 Pathogen[ P0C214] interacts with 1 human partners: {Q8N5D0}

24922 Pathogen[ P03346] interacts with 1 human partners: {Q8N5D0}

24923 Pathogen[ Q85601] interacts with 1 human partners: {Q8N5D0}

24924 Pathogen[ P14079] interacts with 1 human partners:{Q8N5D0}  
24925 Pathogen[ P03383] interacts with 1 human partners:{Q8N5D0}  
24926 Pathogen[ P03410] interacts with 1 human partners:{Q8N5D0}  
24927 Pathogen[ P14075] interacts with 1 human partners:{Q8N5D0}  
24928 Pathogen[ P0C206] interacts with 1 human partners:{Q8N5D0}  
24929 Pathogen[ P03363] interacts with 1 human partners:{Q8N5D0}  
24930 [Cluster 2267]GO:0009786+P biological\_process [name] regulation of asymmetric cell division [def] "Any process that modulates the frequency, rate or extent of asymmetric cell division." [GOC  
24931 Pathogen[ Q2Q067] interacts with 1 human partners:{Q01860}  
24932 Pathogen[ P0C214] interacts with 1 human partners:{Q01860}  
24933 Pathogen[ P03346] interacts with 1 human partners:{Q01860}  
24934 Pathogen[ Q85601] interacts with 1 human partners:{Q01860}  
24935 Pathogen[ P14079] interacts with 1 human partners:{Q01860}  
24936 Pathogen[ P03383] interacts with 1 human partners:{Q01860}  
24937 Pathogen[ P03410] interacts with 1 human partners:{Q01860}  
24938 Pathogen[ P14075] interacts with 1 human partners:{Q01860}  
24939 Pathogen[ P0C206] interacts with 1 human partners:{Q01860}  
24940 Pathogen[ P03363] interacts with 1 human partners:{Q01860}  
24941 [Cluster 2268]GO:0031629+P biological\_process [name] synaptic vesicle fusion to presynaptic membrane [def] "Fusion of the membrane of a synaptic vesicle with its target presynaptic membrane, thereby releasing its cargo neurotransmitters into the synaptic cleft." [ISBN  
24942 Pathogen[ Q2Q067] interacts with 1 human partners:{095295}  
24943 Pathogen[ P0C214] interacts with 1 human partners:{095295}  
24944 Pathogen[ P03346] interacts with 1 human partners:{095295}  
24945 Pathogen[ Q85601] interacts with 1 human partners:{095295}  
24946 Pathogen[ P14079] interacts with 1 human partners:{095295}  
24947 Pathogen[ P03383] interacts with 1 human partners:{095295}  
24948 Pathogen[ P03410] interacts with 1 human partners:{095295}  
24949 Pathogen[ P14075] interacts with 1 human partners:{095295}  
24950 Pathogen[ P0C206] interacts with 1 human partners:{095295}  
24951 Pathogen[ P03363] interacts with 1 human partners:{095295}  
24952 [Cluster 2269]GO:0045859+P biological\_process [name] regulation of protein kinase activity [def] "Any process that modulates the frequency, rate or extent of protein kinase activity." [GOC  
24953 Pathogen[ Q2Q067] interacts with 6 human partners:{Q6NXT1;P67870;Q9UNN5;P60953;Q8ND04;Q9H2G4}  
24954 Pathogen[ P0C214] interacts with 6 human partners:{P60953;Q9UNN5;Q8ND04;Q9H2G4;Q6NXT1;P67870}  
24955 Pathogen[ P03346] interacts with 7 human partners:{Q9H2G4;P60953;Q8ND04;Q9UNN5;P67870;Q9H8V3;Q6NXT1}  
24956 Pathogen[ Q85601] interacts with 6 human partners:{Q6NXT1;Q9UNN5;Q8ND04;P60953;Q9H2G4;P67870}  
24957 Pathogen[ P14079] interacts with 6 human partners:{Q6NXT1;Q9UNN5;Q9H2G4;Q8ND04;Q9H8V3;P67870}  
24958 Pathogen[ P03383] interacts with 5 human partners:{Q8ND04;P60953;Q9UNN5;P67870;Q9H2G4}  
24959 Pathogen[ P03410] interacts with 7 human partners:{Q9UNN5;Q6NXT1;Q8ND04;P60953;Q9H8V3;P67870;Q9H2G4}  
24960 Pathogen[ P14075] interacts with 5 human partners:{P60953;Q9H2G4;Q9UNN5;P67870;Q8ND04}  
24961 Pathogen[ P0C206] interacts with 7 human partners:{Q9UNN5;Q6NXT1;Q8ND04;P67870;Q9H8V3;Q9H2G4;P60953}  
24962 Pathogen[ P03363] interacts with 6 human partners:{Q9UNN5;Q8ND04;Q6NXT1;Q9H2G4;P67870;P60953}  
24963 [Cluster 2270]GO:0003256+P biological\_process [name] regulation of transcription from RNA polymerase II promoter involved in myocardial precursor cell differentiation [def] "Any process that modulates the frequency, rate or extent of transcription from an RNA polymerase II promoter that contributes to the differentiation of a myocardial precursor cell." [GOC  
24964 Pathogen[ Q2Q067] interacts with 1 human partners:{Q06330}  
24965 Pathogen[ P0C214] interacts with 1 human partners:{Q06330}  
24966 Pathogen[ P03346] interacts with 1 human partners:{Q06330}  
24967 Pathogen[ Q85601] interacts with 1 human partners:{Q06330}  
24968 Pathogen[ P14079] interacts with 1 human partners:{Q06330}  
24969 Pathogen[ P03383] interacts with 1 human partners:{Q06330}  
24970 Pathogen[ P03410] interacts with 1 human partners:{Q06330}  
24971 Pathogen[ P14075] interacts with 1 human partners:{Q06330}  
24972 Pathogen[ P0C206] interacts with 1 human partners:{Q06330}  
24973 Pathogen[ P03363] interacts with 1 human partners:{Q06330}  
24974 [Cluster 2271]GO:0071300+P biological\_process [name] cellular response to retinoic acid [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a retinoic acid stimulus." [GOC  
24975 Pathogen[ Q2Q067] interacts with 7 human

24976 partners:{Q13573;Q8IZD2;P13646;P28702;Q6IQ32;P10914;P13682}  
Pathogen[ P0C214] interacts with 6 human

24977 partners:{Q6IQ32;Q13573;P13646;P10914;P13682;Q8IZD2}  
Pathogen[ P03346] interacts with 7 human

24978 partners:{P13646;P28702;P10914;Q6IQ32;P13682;Q13573;Q8IZD2}  
Pathogen[ Q85601] interacts with 7 human

24979 partners:{P13646;P13682;Q13573;P28702;P10914;Q6IQ32;Q8IZD2}  
Pathogen[ P14079] interacts with 7 human

24980 partners:{P13646;Q13573;Q7Z7C7;P28702;Q6IQ32;P13682;P10914}  
Pathogen[ P03383] interacts with 6 human

24981 partners:{Q13573;P10914;Q6IQ32;P28702;P13646;P13682}  
Pathogen[ P03410] interacts with 7 human

24982 partners:{P13646;P13682;Q6IQ32;Q7Z7C7;P10914;P28702;Q13573}  
Pathogen[ P14075] interacts with 6 human

24983 partners:{Q13573;P13646;Q6IQ32;P28702;P10914;Q7Z7C7}  
Pathogen[ P0C206] interacts with 8 human

24984 partners:{P10914;P13682;Q7Z7C7;Q13573;Q6IQ32;P28702;P13646;Q8IZD2}  
Pathogen[ P03363] interacts with 6 human

24985 partners:{P13682;P28702;P10914;Q13573;Q6IQ32;P13646}  
[Cluster 2272]GO:2001178+P biological\_process [name] positive regulation of mediator complex assembly [def] "Any process that activates or increases the frequency, rate or extent of mediator complex assembly." [GOC

24986 Pathogen[ Q2Q067] interacts with 1 human partners:{Q71SY5}  
24987 Pathogen[ P0C214] interacts with 1 human partners:{Q71SY5}  
24988 Pathogen[ P03346] interacts with 1 human partners:{Q71SY5}  
24989 Pathogen[ Q85601] interacts with 1 human partners:{Q71SY5}  
24990 Pathogen[ P14079] interacts with 1 human partners:{Q71SY5}  
24991 Pathogen[ P03383] interacts with 1 human partners:{Q71SY5}  
24992 Pathogen[ P03410] interacts with 1 human partners:{Q71SY5}  
24993 Pathogen[ P14075] interacts with 1 human partners:{Q71SY5}  
24994 Pathogen[ P0C206] interacts with 1 human partners:{Q71SY5}  
24995 Pathogen[ P03363] interacts with 1 human partners:{Q71SY5}

24996 [Cluster 2273]GO:0007638+P biological\_process [name] mechanosensory behavior [def] "Behavior that is dependent upon the sensation of a mechanical stimulus." [GOC

24997 Pathogen[ Q2Q067] interacts with 2 human partners:{Q99684;P50549}  
24998 Pathogen[ P0C214] interacts with 2 human partners:{Q99684;P50549}  
24999 Pathogen[ P03346] interacts with 2 human partners:{P50549;Q99684}  
25000 Pathogen[ Q85601] interacts with 2 human partners:{P50549;Q99684}  
25001 Pathogen[ P14079] interacts with 2 human partners:{Q99684;P50549}  
25002 Pathogen[ P03383] interacts with 2 human partners:{P50549;Q99684}  
25003 Pathogen[ P03410] interacts with 2 human partners:{Q99684;P50549}  
25004 Pathogen[ P14075] interacts with 2 human partners:{Q99684;P50549}  
25005 Pathogen[ P0C206] interacts with 2 human partners:{P50549;Q99684}  
25006 Pathogen[ P03363] interacts with 2 human partners:{Q99684;P50549}

25007 [Cluster 2274]GO:0051262+P biological\_process [name] protein tetramerization [def] "The formation of a protein tetramer, a macromolecular structure consisting of four noncovalently associated identical or nonidentical subunits." [GOC

25008 Pathogen[ Q2Q067] interacts with 6 human  
partners:{Q8N684;O15350;Q16630;P34896;O43809;Q9NTM9}

25009 Pathogen[ P0C214] interacts with 8 human  
partners:{O15350;Q8N684;Q16630;O43809;Q9NTM9;P34896;P48163;P30566}

25010 Pathogen[ P03346] interacts with 7 human  
partners:{Q9NTM9;Q86WG5;Q8N684;O15350;O43809;P50542;Q16630}

25011 Pathogen[ Q85601] interacts with 4 human partners:{Q8N684;P34896;O15350;O43809}

25012 Pathogen[ P14079] interacts with 9 human  
partners:{O43809;Q9NTM9;Q15070;O15350;P50542;Q8N684;Q16630;Q86WG5;P34896}

25013 Pathogen[ P03383] interacts with 4 human partners:{P34896;Q8N684;O15350;O43809}

25014 Pathogen[ P03410] interacts with 10 human  
partners:{Q9NTM9;O43809;P30566;P50542;Q8N684;O15350;Q15070;Q16630;P34896;Q86WG5}

25015 Pathogen[ P14075] interacts with 6 human  
partners:{O43809;P34896;Q9NTM9;Q15070;O15350;Q8N684}

25016 Pathogen[ P0C206] interacts with 8 human  
partners:{Q8N684;O43809;P50542;Q15070;Q16630;P34896;O15350;Q9NTM9}

25017 Pathogen[ P03363] interacts with 5 human  
partners:{Q16630;Q8N684;O43809;Q86WG5;Q9NTM9}

25018 [Cluster 2275]GO:0043032+P biological\_process [name] positive regulation of macrophage activation [def] "Any process that stimulates, induces or increases the rate of macrophage activation." [GOC

25019 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8NFX5}  
25020 Pathogen[ P0C214] interacts with 2 human partners:{P10809;Q8NFX5}  
25021 Pathogen[ P03346] interacts with 1 human partners:{Q8NFX5}  
25022 Pathogen[ Q85601] interacts with 1 human partners:{Q8NFX5}  
25023 Pathogen[ P14079] interacts with 2 human partners:{Q8NFX5;O95760}  
25024 Pathogen[ P03383] interacts with 1 human partners:{Q8NFX5}  
25025 Pathogen[ P03410] interacts with 2 human partners:{Q8NFX5;O95760}  
25026 Pathogen[ P14075] interacts with 1 human partners:{Q8NFX5}

25027 Pathogen[ P0C206] interacts with 1 human partners:{Q8NFZ5}

25028 Pathogen[ P03363] interacts with 1 human partners:{Q8NFZ5}

25029 [Cluster 2276]GO:0003144+P biological\_process [name] embryonic heart tube formation [def] "The process that gives rise to the embryonic heart tube. This process pertains to the initial formation of a structure from unspecified parts. The embryonic heart tube is an epithelial tube that will give rise to the mature heart." [GOC

25030 Pathogen[ Q2Q067] interacts with 1 human partners:{096004}

25031 Pathogen[ P0C214] interacts with 1 human partners:{096004}

25032 Pathogen[ P03346] interacts with 1 human partners:{096004}

25033 Pathogen[ Q85601] interacts with 1 human partners:{096004}

25034 Pathogen[ P14079] interacts with 1 human partners:{096004}

25035 Pathogen[ P03383] interacts with 1 human partners:{096004}

25036 Pathogen[ P03410] interacts with 1 human partners:{096004}

25037 Pathogen[ P14075] interacts with 1 human partners:{096004}

25038 Pathogen[ P0C206] interacts with 1 human partners:{096004}

25039 Pathogen[ P03363] interacts with 1 human partners:{096004}

25040 [Cluster 2277]GO:0034122+P biological\_process [name] negative regulation of toll-like receptor signaling pathway [def] "Any process that stops, prevents, or reduces the frequency, rate, or extent of toll-like receptor signaling pathway." [GOC

25041 Pathogen[ Q2Q067] interacts with 3 human partners:{Q8WUQ7;Q15306;Q9UBC1}

25042 Pathogen[ P0C214] interacts with 2 human partners:{Q9UBC1;Q15306}

25043 Pathogen[ P03346] interacts with 3 human partners:{Q15306;Q9UBC1;Q8WUQ7}

25044 Pathogen[ Q85601] interacts with 2 human partners:{Q15306;Q9UBC1}

25045 Pathogen[ P14079] interacts with 3 human partners:{Q9UBC1;Q15306;Q8WUQ7}

25046 Pathogen[ P03383] interacts with 3 human partners:{Q9UBC1;Q15306;Q8WUQ7}

25047 Pathogen[ P03410] interacts with 3 human partners:{Q8WUQ7;Q15306;Q9UBC1}

25048 Pathogen[ P14075] interacts with 3 human partners:{Q9UBC1;Q15306;Q8WUQ7}

25049 Pathogen[ P0C206] interacts with 3 human partners:{Q9UBC1;Q15306;Q8WUQ7}

25050 Pathogen[ P03363] interacts with 3 human partners:{Q15306;Q8WUQ7;Q9UBC1}

25051 [Cluster 2278]GO:0035360+P biological\_process [name] positive regulation of peroxisome proliferator activated receptor signaling pathway [def] "Any process that activates or increases the frequency, rate or extent of the peroxisome proliferator activated receptor signaling pathway." [GOC

25052 Pathogen[ Q2Q067] interacts with 1 human partners:{Q76L83}

25053 Pathogen[ P0C214] interacts with 1 human partners:{Q76L83}

25054 Pathogen[ P03346] interacts with 1 human partners:{Q76L83}

25055 Pathogen[ Q85601] interacts with 1 human partners:{Q76L83}

25056 Pathogen[ P14079] interacts with 1 human partners:{Q76L83}

25057 Pathogen[ P03383] interacts with 1 human partners:{Q76L83}

25058 Pathogen[ P03410] interacts with 1 human partners:{Q76L83}

25059 Pathogen[ P14075] interacts with 1 human partners:{Q76L83}

25060 Pathogen[ P0C206] interacts with 1 human partners:{Q76L83}

25061 Pathogen[ P03363] interacts with 1 human partners:{Q76L83}

25062 [Cluster 2279]GO:0001942+P biological\_process [name] hair follicle development [def] "The process whose specific outcome is the progression of the hair follicle over time, from its formation to the mature structure. A hair follicle is a tube-like opening in the epidermis where the hair shaft develops and into which the sebaceous glands open." [GOC

25063 Pathogen[ Q2Q067] interacts with 8 human partners:{Q9NSB2;Q04206;Q92754;P31276;Q43679;Q9H4B6;Q86U70;Q9Y651}

25064 Pathogen[ P0C214] interacts with 9 human partners:{Q9NSB2;Q04206;Q92754;Q9H4B6;Q86U70;Q43679;P49588;Q9Y651;P31276}

25065 Pathogen[ P03346] interacts with 10 human partners:{Q86U70;P31276;Q04206;Q92754;Q9BT04;Q9NSB2;Q43679;P35713;Q9H4B6;Q9Y651}

25066 Pathogen[ Q85601] interacts with 9 human partners:{Q92754;Q86U70;Q9Y651;Q04206;Q43679;P31276;Q9BT04;Q9H4B6;Q9NSB2}

25067 Pathogen[ P14079] interacts with 9 human partners:{Q43679;Q86U70;P31276;Q9H4B6;Q92754;Q8WWZ3;P49588;Q9NSB2;Q9BT04}

25068 Pathogen[ P03383] interacts with 8 human partners:{Q9NSB2;Q86U70;P31276;Q43679;Q92754;Q04206;Q9BT04;Q9H4B6}

25069 Pathogen[ P03410] interacts with 9 human partners:{Q04206;P31276;P49588;Q43679;Q9BT04;Q86U70;Q9H4B6;Q9NSB2;Q92754}

25070 Pathogen[ P14075] interacts with 8 human partners:{Q86U70;Q04206;Q9NSB2;Q9BT04;Q92754;Q9H4B6;Q43679;P31276}

25071 Pathogen[ P0C206] interacts with 9 human partners:{Q43679;Q9NSB2;Q9BT04;Q92754;Q04206;Q9H4B6;Q86U70;P31276;Q9Y651}

25072 Pathogen[ P03363] interacts with 9 human partners:{Q86U70;Q04206;Q43679;Q9BT04;Q9NSB2;P31276;Q9H4B6;Q9Y651;Q92754}

25073 [Cluster 2280]GO:0045879+P biological\_process [name] negative regulation of smoothed signaling pathway [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of smoothed signaling." [GOC

25074 Pathogen[ Q2Q067] interacts with 4 human partners:{P06400;Q9Y297;Q9NSC2;Q9UMX1}

25075 Pathogen[ P0C214] interacts with 5 human partners:{Q9Y297;Q9NSC2;P07093;Q9UMX1;P06400}

25076 Pathogen[ P03346] interacts with 7 human partners:{Q9BZE0;Q693B1;Q9BXA9;P06400;Q9NSC2;Q9Y297;Q9UMX1}

25077 Pathogen[ Q85601] interacts with 4 human partners:{P06400;Q9NSC2;P07093;Q9UMX1}  
25078 Pathogen[ P14079] interacts with 4 human partners:{Q9UMX1;P54826;Q9BZE0;Q9NSC2}  
25079 Pathogen[ P03383] interacts with 3 human partners:{P06400;Q9NSC2;Q9UMX1}  
25080 Pathogen[ P03410] interacts with 4 human partners:{P06400;P54826;Q9NSC2;Q9UMX1}  
25081 Pathogen[ P14075] interacts with 4 human partners:{Q9NSC2;P06400;Q9UMX1;P54826}  
25082 Pathogen[ POC206] interacts with 6 human partners:{Q9BZE0;Q9UMX1;Q9NSC2;Q693B1;P54826;P06400}  
25083 Pathogen[ P03363] interacts with 4 human partners:{Q9UMX1;P06400;Q9BZE0;Q693B1}  
25084 [Cluster 2281]GO:0050868+P biological\_process [name] negative regulation of T cell activation [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of T cell activation." [GOC  
25085 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96FA3}  
25086 Pathogen[ POC214] interacts with 1 human partners:{Q96FA3}  
25087 Pathogen[ P03346] interacts with 3 human partners:{Q8IWW1;Q96FA3;Q9Y2R2}  
25088 Pathogen[ Q85601] interacts with 1 human partners:{Q96FA3}  
25089 Pathogen[ P14079] interacts with 2 human partners:{Q96FA3;Q8IWW1}  
25090 Pathogen[ P03383] interacts with 1 human partners:{Q96FA3}  
25091 Pathogen[ P03410] interacts with 2 human partners:{Q96FA3;Q8IWW1}  
25092 Pathogen[ P14075] interacts with 2 human partners:{Q8IWW1;Q96FA3}  
25093 Pathogen[ POC206] interacts with 3 human partners:{Q8IWW1;Q9Y2R2;Q96FA3}  
25094 Pathogen[ P03363] interacts with 2 human partners:{Q9Y2R2;Q96FA3}  
25095 [Cluster 2282]GO:0020027+P biological\_process [name] hemoglobin metabolic process [def] "The chemical reactions and pathways involving hemoglobin, including its uptake and utilization." [GOC  
25096 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NZD4}  
25097 Pathogen[ POC214] interacts with 1 human partners:{Q9NZD4}  
25098 Pathogen[ P03346] interacts with 2 human partners:{Q9NZD4;P16452}  
25099 Pathogen[ Q85601] interacts with 1 human partners:{Q9NZD4}  
25100 Pathogen[ P14079] interacts with 3 human partners:{P16452;P35611;Q9NZD4}  
25101 Pathogen[ P03383] interacts with 1 human partners:{Q9NZD4}  
25102 Pathogen[ P03410] interacts with 3 human partners:{P16452;P35611;Q9NZD4}  
25103 Pathogen[ P14075] interacts with 1 human partners:{Q9NZD4}  
25104 Pathogen[ POC206] interacts with 2 human partners:{P16452;Q9NZD4}  
25105 Pathogen[ P03363] interacts with 2 human partners:{Q9NZD4;P16452}  
25106 [Cluster 2283]GO:0006972+P biological\_process [name] hyperosmotic response [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of detection of, or exposure to, a hyperosmotic environment, i.e. an environment with a higher concentration of solutes than the organism or cell." [GOC  
25107 Pathogen[ Q2Q067] interacts with 1 human partners:{P63000}  
25108 Pathogen[ POC214] interacts with 1 human partners:{P63000}  
25109 Pathogen[ P03346] interacts with 2 human partners:{P50135;P63000}  
25110 Pathogen[ Q85601] interacts with 1 human partners:{P63000}  
25111 Pathogen[ P14079] interacts with 1 human partners:{P50135}  
25112 Pathogen[ P03383] interacts with 1 human partners:{P63000}  
25113 Pathogen[ P03410] interacts with 2 human partners:{P63000;P50135}  
25114 Pathogen[ P14075] interacts with 1 human partners:{P63000}  
25115 Pathogen[ POC206] interacts with 2 human partners:{P63000;P50135}  
25116 Pathogen[ P03363] interacts with 2 human partners:{P50135;P63000}  
25117 [Cluster 2284]GO:0060712+P biological\_process [name] spongiotrophoblast layer development [def] "The process in which the spongiotrophoblast layer of the placenta progresses from its formation to its mature state." [GOC  
25118 Pathogen[ Q2Q067] interacts with 3 human partners:{Q99966;Q9P243;Q9NR09}  
25119 Pathogen[ POC214] interacts with 3 human partners:{Q99966;Q9NR09;Q9P243}  
25120 Pathogen[ P03346] interacts with 5 human partners:{Q99966;Q9P243;Q99929;Q9NR09;Q8N3Y1}  
25121 Pathogen[ Q85601] interacts with 4 human partners:{Q99966;Q8N3Y1;Q9NR09;Q9P243}  
25122 Pathogen[ P14079] interacts with 4 human partners:{Q8N3Y1;Q99966;Q9NR09;Q9P243}  
25123 Pathogen[ P03383] interacts with 1 human partners:{Q9NR09}  
25124 Pathogen[ P03410] interacts with 4 human partners:{Q9P243;Q9NR09;Q8N3Y1;Q99966}  
25125 Pathogen[ P14075] interacts with 1 human partners:{Q9NR09}  
25126 Pathogen[ POC206] interacts with 4 human partners:{Q9P243;Q8N3Y1;Q9NR09;Q99966}  
25127 Pathogen[ P03363] interacts with 4 human partners:{Q99929;Q9P243;Q9NR09;Q8N3Y1}  
25128 [Cluster 2285]GO:0007166+P biological\_process [name] cell surface receptor linked signaling pathway [def] "A series of molecular signals initiated by activation of a receptor on the surface of a cell. The pathway begins with binding of an extracellular ligand to a cell surface receptor, or for receptors that signal in the absence of a ligand, by ligand-withdrawal or the activity of a constitutively active receptor. The pathway ends with regulation of a downstream cellular process, e.g. transcription." [GOC  
25129 Pathogen[ Q2Q067] interacts with 11 human partners:{Q99933;Q9Y6J0;Q95551;Q00978;Q99873;Q07666;P37198;Q86Y01;Q13490;P22681;Q9H0E9}  
25130 Pathogen[ POC214] interacts with 13 human partners:{P22681;Q95551;Q9UI08;Q13490;Q99873;Q00978;P37198;Q07666;Q99933;Q9H0E9;Q86Y01;Q99704;Q9Y6J0}  
25131 Pathogen[ P03346] interacts with 15 human



partners:{Q99873;O95551;Q13489;Q9UI08;Q00978;P37198;Q53HI1;Q9H0E9;Q07666;Q9Y6J0;Q99704;Q13490;P22681;Q86Y01;Q99933}

25132 Pathogen[ Q85601] interacts with 10 human partners:{P22681;Q13490;Q07666;Q9Y6J0;Q9H0E9;Q00978;Q99933;Q99873;Q86Y01;O95551}

25133 Pathogen[ P14079] interacts with 18 human partners:{P04083;P13164;Q99704;Q99873;Q9H0E9;Q86Y01;Q07666;Q99933;P37198;O14836;Q53HI1;O95551;Q00978;Q9Y6Y9;Q99836;Q9Y6J0;Q13490;Q9UI08}

25134 Pathogen[ P03383] interacts with 9 human partners:{Q13490;Q00978;Q9H0E9;Q99873;Q07666;Q99933;O95551;P37198;Q86Y01}

25135 Pathogen[ P03410] interacts with 15 human partners:{Q99933;Q9Y6J0;Q9UI08;P20963;Q13490;Q07666;Q53HI1;O95551;Q86Y01;Q99704;O14836;Q9Y6Y9;Q9H0E9;Q00978;Q99873}

25136 Pathogen[ P14075] interacts with 9 human partners:{Q99933;Q07666;Q00978;Q13490;Q99873;P37198;Q53HI1;Q86Y01;O95551}

25137 Pathogen[ P0C206] interacts with 14 human partners:{Q86Y01;Q99873;Q99933;Q9UI08;Q07666;Q9Y6J0;P22681;Q53HI1;O95551;Q13489;Q99704;Q00978;Q9H0E9;Q13490}

25138 Pathogen[ P03363] interacts with 14 human partners:{P22681;Q9Y6J0;Q86Y01;Q13490;Q07666;Q99704;Q9UI08;Q13489;Q00978;O95551;P37198;Q9H0E9;Q99933;Q99873}

25139 [Cluster 2286]GO:0009411+P biological\_process [name] response to UV [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an ultraviolet radiation (UV light) stimulus. Ultraviolet radiation is electromagnetic radiation with a wavelength in the range of 10 to 380 nanometers." [GOC

25140 Pathogen[ Q2Q067] interacts with 22 human partners:{Q2YD98;Q86UA6;Q92889;Q9NZJ0;Q9UBZ9;Q13794;P63146;Q15004;O00255;Q03468;P38936;Q13216;Q9BVW5;P22415;P49459;Q9BZF9;Q92466;Q9H040;Q13888;O60921;P28715;P23025}

25141 Pathogen[ P0C214] interacts with 26 human partners:{Q9H040;Q92889;P23025;Q9UBZ9;Q9BVW5;P49459;P38936;Q13794;Q13216;O60921;P28715;Q9NZJ0;P42574;Q15004;Q13888;O95155;Q9BZF9;Q9UIV8;Q14011;Q86UA6;P22415;Q92466;P55210;Q03468;P63146;O00255}

25142 Pathogen[ P03346] interacts with 31 human partners:{O60921;Q9NZJ0;Q9NS91;P28715;P55273;O95155;Q14011;Q15004;Q9UBZ9;Q13888;P42574;P49459;Q03468;O00255;P63146;Q9H040;Q86UA6;Q13216;Q2YD98;Q92889;P55211;P55210;P23025;Q9BZF9;P38936;O94782;Q92466;Q9BVW5;Q13794;Q96M02;P22415}

25143 Pathogen[ Q85601] interacts with 27 human partners:{Q96M02;P23025;P55273;P63146;Q15004;Q9H040;Q13888;Q13216;Q86UA6;Q9BZF9;Q9NZJ0;O95155;Q92889;P28715;P22415;Q03468;Q9UBZ9;O60921;O00255;P49459;P38936;Q92466;P19447;Q13794;P55210;Q9BVW5;Q9NS91}

25144 Pathogen[ P14079] interacts with 29 human partners:{P28715;Q9H040;Q9UBZ9;Q13216;P23025;P55273;Q96M02;P45983;Q13888;P55210;P38936;P49459;Q86UA6;Q13794;Q92889;Q9BZF9;Q14011;Q03468;Q9NZJ0;Q92466;Q15004;P52701;Q2YD98;O00255;P63146;O60921;P19447;Q9BVW5;P22415}

25145 Pathogen[ P03383] interacts with 19 human partners:{Q86UA6;Q9BVW5;Q9NZJ0;Q13216;Q13888;Q9BZF9;Q15004;O60921;Q9H040;Q03468;P23025;O00255;Q9UBZ9;P49459;P63146;Q13794;Q92466;Q2YD98;P22415}

25146 Pathogen[ P03410] interacts with 28 human partners:{Q96M02;P23025;Q9H040;Q9BVW5;Q86UA6;P55273;P49459;Q92889;Q15004;Q13794;Q03468;P28715;Q92466;Q9UBZ9;P52701;P38936;Q2YD98;P19447;P63146;P22415;O60921;Q14011;Q13216;Q13888;Q9BZF9;O00255;P55210;Q9NZJ0}

25147 Pathogen[ P14075] interacts with 19 human partners:{Q9UBZ9;P23025;P49459;Q13216;Q9H040;Q9BVW5;Q03468;O00255;Q2YD98;Q13794;O60921;Q9BZF9;Q86UA6;P63146;P22415;Q92466;Q9NZJ0;Q15004;Q13888}

25148 Pathogen[ P0C206] interacts with 30 human partners:{Q2YD98;Q96M02;P28715;P52701;O00255;Q14011;Q03468;Q9NS91;O95155;Q13216;P19447;P22415;Q13888;Q9BVW5;P49459;Q92889;P55273;P38936;O60921;P42574;Q9UBZ9;Q9NZJ0;Q92466;Q9BZF9;Q9H040;P55210;Q15004;P23025;Q13794;P63146}

25149 Pathogen[ P03363] interacts with 24 human partners:{P49459;Q13888;Q13794;O95155;Q2YD98;Q92889;P23025;Q96M02;P63146;Q86UA6;Q9BZF9;Q9BVW5;Q15004;Q9H040;Q14011;P22415;Q92466;Q03468;O60921;P55210;Q13216;Q9UBZ9;Q9NZJ0;Q9NS91}

25150 [Cluster 2287]GO:0072384+P biological\_process [name] organelle transport along microtubule [def] "The directed movement of an organelle along a microtubule, mediated by motor proteins. This process begins with the attachment of an organelle to a microtubule, and ends when the organelle reaches its final destination." [GOC

25151 Pathogen[ Q2Q067] interacts with 2 human partners:{P60953;Q9Y678}

25152 Pathogen[ P0C214] interacts with 2 human partners:{P60953;Q9Y678}

25153 Pathogen[ P03346] interacts with 2 human partners:{Q9Y678;P60953}

25154 Pathogen[ Q85601] interacts with 2 human partners:{Q9Y678;P60953}

25155 Pathogen[ P14079] interacts with 1 human partners:{Q9Y678}

25156 Pathogen[ P03383] interacts with 2 human partners:{Q9Y678;P60953}

25157 Pathogen[ P03410] interacts with 2 human partners:{Q9Y678;P60953}

25158 Pathogen[ P14075] interacts with 2 human partners:{P60953;Q9Y678}

25159 Pathogen[ P0C206] interacts with 2 human partners:{Q9Y678;P60953}

25160 Pathogen[ P03363] interacts with 2 human partners:{Q9Y678;P60953}

25161 [Cluster 2288]GO:0060017+P biological\_process [name] parathyroid gland development  
[def] "The process whose specific outcome is the progression of the parathyroid gland over time, from its formation to the mature structure. The parathyroid gland is an organ specialised for secretion of parathyroid hormone." [GOC  
25162 Pathogen[ Q2Q067] interacts with 1 human partners:{043365}  
25163 Pathogen[ P0C214] interacts with 1 human partners:{043365}  
25164 Pathogen[ P03346] interacts with 4 human partners:{075603;P15863;043365;P46109}  
25165 Pathogen[ Q85601] interacts with 1 human partners:{043365}  
25166 Pathogen[ P14079] interacts with 2 human partners:{P46109;043365}  
25167 Pathogen[ P03383] interacts with 1 human partners:{043365}  
25168 Pathogen[ P03410] interacts with 2 human partners:{P46109;043365}  
25169 Pathogen[ P14075] interacts with 1 human partners:{043365}  
25170 Pathogen[ P0C206] interacts with 1 human partners:{043365}  
25171 Pathogen[ P03363] interacts with 2 human partners:{043365;P46109}  
25172 [Cluster 2289]GO:0060213+P biological\_process [name] positive regulation of nuclear-transcribed mRNA poly(A) tail shortening [def] "Any process that increases the frequency, rate or extent of poly(A) tail shortening of a nuclear-transcribed mRNA. Poly(A) tail shortening is the decrease in length of the poly(A) tail of an mRNA from full length to an oligo(A) length." [GOC  
25173 Pathogen[ Q2Q067] interacts with 2 human partners:{P26651;P78543}  
25174 Pathogen[ P0C214] interacts with 2 human partners:{P78543;P26651}  
25175 Pathogen[ P03346] interacts with 2 human partners:{P26651;P78543}  
25176 Pathogen[ Q85601] interacts with 2 human partners:{P26651;P78543}  
25177 Pathogen[ P14079] interacts with 1 human partners:{P78543}  
25178 Pathogen[ P03383] interacts with 2 human partners:{P78543;P26651}  
25179 Pathogen[ P03410] interacts with 2 human partners:{P26651;P78543}  
25180 Pathogen[ P14075] interacts with 2 human partners:{P26651;P78543}  
25181 Pathogen[ P0C206] interacts with 2 human partners:{P26651;P78543}  
25182 Pathogen[ P03363] interacts with 2 human partners:{P78543;P26651}  
25183 [Cluster 2290]GO:0031397+P biological\_process [name] negative regulation of protein ubiquitination [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the addition of ubiquitin groups to a protein." [GOC  
25184 Pathogen[ Q2Q067] interacts with 7 human  
partners:{Q9BZE4;Q04323;O15105;Q9UK41;O94874;O75113;Q9H1Y0}  
25185 Pathogen[ P0C214] interacts with 7 human  
partners:{Q9UK41;O94874;O15105;Q04323;Q9H1Y0;O75113;Q9BZE4}  
25186 Pathogen[ P03346] interacts with 8 human  
partners:{Q06945;Q9BZE4;Q9UK41;O15105;Q04323;O75113;Q9H1Y0;O94874}  
25187 Pathogen[ Q85601] interacts with 7 human  
partners:{Q9BZE4;Q9UK41;Q04323;Q9H1Y0;O75113;O15105;O94874}  
25188 Pathogen[ P14079] interacts with 8 human  
partners:{O94874;Q9H1Y0;Q9BZE4;Q9UL15;Q8N300;O15105;Q04323;O75113}  
25189 Pathogen[ P03383] interacts with 7 human  
partners:{Q9BZE4;Q04323;Q9H1Y0;O15105;Q9UK41;O75113;O94874}  
25190 Pathogen[ P03410] interacts with 8 human  
partners:{Q9H1Y0;Q04323;Q9UL15;O15105;O75113;O94874;Q8N300;Q9BZE4}  
25191 Pathogen[ P14075] interacts with 7 human  
partners:{O94874;Q9H1Y0;Q9UK41;Q04323;O15105;Q9BZE4;O75113}  
25192 Pathogen[ P0C206] interacts with 8 human  
partners:{Q04323;Q9UK41;O15105;O75113;Q9H1Y0;O94874;Q9BZE4;Q8N300}  
25193 Pathogen[ P03363] interacts with 7 human  
partners:{Q04323;Q9BZE4;O15105;O75113;Q9UK41;O94874;Q9H1Y0}  
25194 [Cluster 2291]GO:0002360+P biological\_process [name] T cell lineage commitment  
[def] "The process in which a lymphoid progenitor cell becomes committed to becoming any type of T cell." [GOC  
25195 Pathogen[ Q2Q067] interacts with 1 human partners:{P55895}  
25196 Pathogen[ P0C214] interacts with 1 human partners:{P55895}  
25197 Pathogen[ P03346] interacts with 1 human partners:{P55895}  
25198 Pathogen[ Q85601] interacts with 1 human partners:{P55895}  
25199 Pathogen[ P14079] interacts with 1 human partners:{P13232}  
25200 Pathogen[ P03383] interacts with 1 human partners:{P55895}  
25201 Pathogen[ P03410] interacts with 2 human partners:{P55895;P13232}  
25202 Pathogen[ P14075] interacts with 1 human partners:{P55895}  
25203 Pathogen[ P0C206] interacts with 1 human partners:{P55895}  
25204 Pathogen[ P03363] interacts with 1 human partners:{P55895}  
25205 [Cluster 2292]GO:0009447+P biological\_process [name] putrescine catabolic process  
[def] "The chemical reactions and pathways resulting in the breakdown of putrescine, 1,4-diaminobutane\_ putrescine is the metabolic precursor of spermidine and spermine." [GOC  
25206 Pathogen[ Q2Q067] interacts with 1 human partners:{P21673}  
25207 Pathogen[ P0C214] interacts with 1 human partners:{P21673}  
25208 Pathogen[ P03346] interacts with 1 human partners:{P21673}  
25209 Pathogen[ Q85601] interacts with 1 human partners:{P21673}  
25210 Pathogen[ P14079] interacts with 1 human partners:{P21673}  
25211 Pathogen[ P03383] interacts with 1 human partners:{P21673}  
25212 Pathogen[ P03410] interacts with 1 human partners:{P21673}

25213 Pathogen[ P14075] interacts with 1 human partners:{P21673}

25214 Pathogen[ POC206] interacts with 1 human partners:{P21673}

25215 Pathogen[ P03363] interacts with 1 human partners:{P21673}

25216 [Cluster 2293]GO:0009913+P biological\_process [name] epidermal cell differentiation [def] "The process in which a relatively unspecialized cell acquires specialized features of an epidermal cell, any of the cells making up the epidermis." [GOC

25217 Pathogen[ Q2Q067] interacts with 3 human partners:{P08151;Q13547;Q92769}

25218 Pathogen[ POC214] interacts with 3 human partners:{Q13547;Q92769;P08151}

25219 Pathogen[ P03346] interacts with 3 human partners:{Q92769;Q13547;P08151}

25220 Pathogen[ Q85601] interacts with 3 human partners:{P08151;Q92769;Q13547}

25221 Pathogen[ P14079] interacts with 2 human partners:{P08151;Q92769}

25222 Pathogen[ P03383] interacts with 2 human partners:{Q92769;Q13547}

25223 Pathogen[ P03410] interacts with 2 human partners:{Q92769;Q13547}

25224 Pathogen[ P14075] interacts with 2 human partners:{Q13547;Q92769}

25225 Pathogen[ POC206] interacts with 3 human partners:{Q92769;Q13547;P08151}

25226 Pathogen[ P03363] interacts with 2 human partners:{P08151;Q13547}

25227 [Cluster 2294]GO:0055010+P biological\_process [name] ventricular cardiac muscle tissue morphogenesis [def] "The process in which the anatomical structures of cardiac ventricle muscle is generated and organized." [GOC

25228 Pathogen[ Q2Q067] interacts with 3 human partners:{O96004;O15105;P12883}

25229 Pathogen[ POC214] interacts with 6 human partners:{Q8WV60;O15105;P19429;P12883;O96004;P13533}

25230 Pathogen[ P03346] interacts with 4 human partners:{O15105;O96004;P63316;P10916}

25231 Pathogen[ Q85601] interacts with 5 human partners:{P13533;Q8WV60;O96004;P12883;O15105}

25232 Pathogen[ P14079] interacts with 7 human partners:{P19429;O96004;P10916;P19237;Q8WV60;P12883;O15105}

25233 Pathogen[ P03383] interacts with 3 human partners:{O96004;O15105;P12883}

25234 Pathogen[ P03410] interacts with 8 human partners:{P10916;O96004;P19429;Q8WV60;P12883;O15105;P63316;P13533}

25235 Pathogen[ P14075] interacts with 2 human partners:{O96004;O15105}

25236 Pathogen[ POC206] interacts with 6 human partners:{Q8WV60;P13533;P19429;O96004;O15105;P12883}

25237 Pathogen[ P03363] interacts with 4 human partners:{O15105;O96004;P19429;P10916}

25238 [Cluster 2295]GO:0040020+P biological\_process [name] regulation of meiosis [def] "Any process that modulates the frequency, rate or extent of meiosis, the process in which the nucleus of a diploid cell divides twice forming four haploid cells, one or more of which usually function as gametes." [GOC

25239 Pathogen[ Q2Q067] interacts with 4 human partners:{P27797;Q12834;Q9UM11;Q9UKT4}

25240 Pathogen[ POC214] interacts with 4 human partners:{Q12834;P27797;Q9UM11;Q9UKT4}

25241 Pathogen[ P03346] interacts with 4 human partners:{Q9UM11;Q12834;Q9UKT4;P27797}

25242 Pathogen[ Q85601] interacts with 5 human partners:{Q9UKT4;P27797;Q12834;Q9UM11;Q4G163}

25243 Pathogen[ P14079] interacts with 3 human partners:{Q9UKT4;Q9UM11;Q4G163}

25244 Pathogen[ P03383] interacts with 4 human partners:{Q9UKT4;Q12834;Q9UM11;P27797}

25245 Pathogen[ P03410] interacts with 5 human partners:{Q9UKT4;Q4G163;Q9UM11;Q12834;P27797}

25246 Pathogen[ P14075] interacts with 4 human partners:{Q9UKT4;Q9UM11;P27797;Q12834}

25247 Pathogen[ POC206] interacts with 5 human partners:{P27797;Q9UKT4;Q9UM11;Q4G163;Q12834}

25248 Pathogen[ P03363] interacts with 4 human partners:{Q9UM11;P27797;Q9UKT4;Q12834}

25249 [Cluster 2296]GO:0033138+P biological\_process [name] positive regulation of peptidyl-serine phosphorylation [def] "Any process that activates or increases the frequency, rate or extent of the phosphorylation of peptidyl-serine." [GOC

25250 Pathogen[ Q2Q067] interacts with 5 human partners:{P31749;Q8WWQ0;Q9UI95;P60953;O95429}

25251 Pathogen[ POC214] interacts with 5 human partners:{P60953;Q9UI95;Q8WWQ0;O95429;P31749}

25252 Pathogen[ P03346] interacts with 6 human partners:{P60953;Q9UI95;P31749;O60519;Q8WWQ0;O95429}

25253 Pathogen[ Q85601] interacts with 5 human partners:{P31749;Q9UI95;Q8WWQ0;P60953;O95429}

25254 Pathogen[ P14079] interacts with 5 human partners:{P31751;P20809;O43597;O95429;Q8WWQ0}

25255 Pathogen[ P03383] interacts with 5 human partners:{Q9UI95;P31749;P60953;Q8WWQ0;O95429}

25256 Pathogen[ P03410] interacts with 7 human partners:{Q9UI95;O43597;P20809;P31749;Q8WWQ0;O95429;P60953}

25257 Pathogen[ P14075] interacts with 6 human partners:{P60953;Q8WWQ0;Q9UI95;P31749;P20809;O95429}

25258 Pathogen[ POC206] interacts with 7 human partners:{P31749;Q8WWQ0;O95429;P20809;O43597;P60953;Q9UI95}

25259 Pathogen[ P03363] interacts with 5 human partners:{Q8WWQ0;P31749;Q9UI95;O95429;P60953}

25260 [Cluster 2297]GO:0007423+P biological\_process [name] sensory organ development [def] "The process whose specific outcome is the progression of sensory organs over

time, from its formation to the mature structure." [GOC

25261 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9Y5Q3}

25262 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y5Q3}

25263 Pathogen[ P03346] interacts with 3 human partners:{P41225;Q9Y5Q3;Q92481}

25264 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y5Q3}

25265 Pathogen[ P14079] interacts with 1 human partners:{Q9Y5Q3}

25266 Pathogen[ P03383] interacts with 1 human partners:{Q9Y5Q3}

25267 Pathogen[ P03410] interacts with 1 human partners:{Q9Y5Q3}

25268 Pathogen[ P14075] interacts with 1 human partners:{Q9Y5Q3}

25269 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y5Q3}

25270 Pathogen[ P03363] interacts with 1 human partners:{Q9Y5Q3}

25271 [Cluster 2298]GO:0006139+P biological\_process [name] nucleobase-containing compound metabolic process [def] "Any cellular metabolic process involving nucleobases, nucleosides, nucleotides and nucleic acids." [GOC

25272 Pathogen[ Q2Q067] interacts with 8 human partners:{Q9Y6K5;Q8IZH2;P33316;Q7KZ85;P04818;Q9Y535;P51580;Q14194}

25273 Pathogen[ P0C214] interacts with 19 human partners:{Q05932;P04818;P33316;Q7KZ85;O95299;Q9Y6K5;P51580;P29728;Q14194;Q8IZH2;Q16831;Q9Y535;Q13126;Q9HCE5;P17812;Q9Y2T3;P31939;Q9Y3B8;Q9P1U0}

25274 Pathogen[ P03346] interacts with 11 human partners:{Q9HCE5;Q7KZ85;P51580;Q8IZH2;Q86U44;Q9Y535;Q14194;P84090;Q9Y6K5;Q9P1U0;P33316}

25275 Pathogen[ Q85601] interacts with 8 human partners:{Q9P1U0;Q14194;Q9Y535;P33316;Q8IZH2;Q9Y6K5;Q7KZ85;Q9HCE5}

25276 Pathogen[ P14079] interacts with 26 human partners:{Q9Y3B8;P29728;P17812;P31939;Q16831;Q9UKK9;Q9Y2T3;P33316;Q9C093;Q9HCE5;Q86U44;Q7KZ85;Q8IZH2;Q9P1U0;Q9Y6K5;O60256;O95299;Q14194;P84090;Q8N3J2;Q96FC9;Q14558;P51580;P04818;Q05932;Q9Y535}

25277 Pathogen[ P03383] interacts with 5 human partners:{Q9Y535;Q9Y6K5;P33316;P84090;Q7KZ85}

25278 Pathogen[ P03410] interacts with 27 human partners:{Q9Y3B8;Q9HCE5;P29728;P17812;O95299;Q8N3J2;Q16831;Q7KZ85;Q9UKK9;Q8NHP7;P84090;Q9Y535;Q9Y2T3;P33316;Q8IZH2;P04818;Q14558;Q9P1U0;P31939;O60256;Q9Y6K5;Q9C093;Q96FC9;Q14194;Q86U44;Q05932;P51580}

25279 Pathogen[ P14075] interacts with 6 human partners:{Q7KZ85;Q9Y535;Q9Y6K5;P51580;P33316;P84090}

25280 Pathogen[ P0C206] interacts with 17 human partners:{P33316;Q16831;Q9P1U0;Q8IZH2;Q9Y6K5;P29728;P31939;Q9Y535;P51580;Q9Y3B8;Q7KZ85;Q9HCE5;P04818;Q14194;P84090;Q9BX63;Q05932}

25281 Pathogen[ P03363] interacts with 11 human partners:{Q9Y6K5;Q9BX63;Q9Y535;P51580;P33316;Q14194;Q86U44;Q7KZ85;Q9HCE5;Q8N3J2;Q8IZH2}

25282 [Cluster 2299]GO:0046985+P biological\_process [name] positive regulation of hemoglobin biosynthetic process [def] "Any process that activates or increases the frequency, rate or extent of the chemical reactions and pathways resulting in the formation of hemoglobin, an oxygen carrying, conjugated protein containing four heme groups and globin." [GOC

25283 Pathogen[ Q2Q067] interacts with 1 human partners:{Q86U70}

25284 Pathogen[ P0C214] interacts with 1 human partners:{Q86U70}

25285 Pathogen[ P03346] interacts with 1 human partners:{Q86U70}

25286 Pathogen[ Q85601] interacts with 1 human partners:{Q86U70}

25287 Pathogen[ P14079] interacts with 1 human partners:{Q86U70}

25288 Pathogen[ P03383] interacts with 1 human partners:{Q86U70}

25289 Pathogen[ P03410] interacts with 1 human partners:{Q86U70}

25290 Pathogen[ P14075] interacts with 1 human partners:{Q86U70}

25291 Pathogen[ P0C206] interacts with 1 human partners:{Q86U70}

25292 Pathogen[ P03363] interacts with 1 human partners:{Q86U70}

25293 [Cluster 2300]GO:0036245+P

25294 Pathogen[ Q2Q067] interacts with 2 human partners:{Q96C86;Q9UHB4}

25295 Pathogen[ P0C214] interacts with 2 human partners:{Q96C86;Q9UHB4}

25296 Pathogen[ P03346] interacts with 2 human partners:{Q96C86;Q9UHB4}

25297 Pathogen[ Q85601] interacts with 2 human partners:{Q9UHB4;Q96C86}

25298 Pathogen[ P14079] interacts with 2 human partners:{Q9UHB4;Q96C86}

25299 Pathogen[ P03383] interacts with 2 human partners:{Q9UHB4;Q96C86}

25300 Pathogen[ P03410] interacts with 2 human partners:{Q9UHB4;Q96C86}

25301 Pathogen[ P14075] interacts with 2 human partners:{Q9UHB4;Q96C86}

25302 Pathogen[ P0C206] interacts with 2 human partners:{Q96C86;Q9UHB4}

25303 Pathogen[ P03363] interacts with 2 human partners:{Q9UHB4;Q96C86}

25304 [Cluster 2301]GO:0060992+P biological\_process [name] response to fungicide [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a fungicide stimulus. Fungicides are chemicals used to kill fungi." [GOC

25305 Pathogen[ Q2Q067] interacts with 1 human partners:{P06132}

25306 Pathogen[ P0C214] interacts with 1 human partners:{P06132}

25307 Pathogen[ P03346] interacts with 1 human partners:{P06132}

25308 Pathogen[ Q85601] interacts with 1 human partners:{P06132}

25309 Pathogen[ P14079] interacts with 1 human partners:{P06132}

25310 Pathogen[ P03383] interacts with 1 human partners:{P06132}

25311 Pathogen[ P03410] interacts with 1 human partners:{P06132}

25312 Pathogen[ P14075] interacts with 1 human partners:{P06132}

25313 Pathogen[ P0C206] interacts with 1 human partners:{P06132}

25314 Pathogen[ P03363] interacts with 1 human partners:{P06132}

25315 [Cluster 2302]GO:0009785+P biological\_process [name] blue light signaling pathway [def] "The series of molecular signals initiated upon sensing of blue light by photoreceptor molecule, at a wavelength between 400nm and 470nm." [GOC

25316 Pathogen[ Q2Q067] interacts with 1 human partners:{Q16526}

25317 Pathogen[ P0C214] interacts with 2 human partners:{Q49AN0;Q16526}

25318 Pathogen[ P03346] interacts with 2 human partners:{Q49AN0;Q16526}

25319 Pathogen[ Q85601] interacts with 2 human partners:{Q49AN0;Q16526}

25320 Pathogen[ P14079] interacts with 2 human partners:{Q16526;Q49AN0}

25321 Pathogen[ P03383] interacts with 1 human partners:{Q16526}

25322 Pathogen[ P03410] interacts with 2 human partners:{Q16526;Q49AN0}

25323 Pathogen[ P14075] interacts with 1 human partners:{Q16526}

25324 Pathogen[ P0C206] interacts with 2 human partners:{Q16526;Q49AN0}

25325 Pathogen[ P03363] interacts with 2 human partners:{Q49AN0;Q16526}

25326 [Cluster 2303]GO:0051039+P biological\_process [name] positive regulation of transcription during meiosis [def] "Any process that activates or increases the frequency, rate or extent of transcription during meiosis." [GOC

25327 Pathogen[ Q2Q067] interacts with 1 human partners:{Q58F21}

25328 Pathogen[ P0C214] interacts with 1 human partners:{Q58F21}

25329 Pathogen[ P03346] interacts with 1 human partners:{Q58F21}

25330 Pathogen[ Q85601] interacts with 1 human partners:{Q58F21}

25331 Pathogen[ P14079] interacts with 1 human partners:{Q58F21}

25332 Pathogen[ P03383] interacts with 1 human partners:{Q58F21}

25333 Pathogen[ P03410] interacts with 1 human partners:{Q58F21}

25334 Pathogen[ P14075] interacts with 1 human partners:{Q58F21}

25335 Pathogen[ P0C206] interacts with 1 human partners:{Q58F21}

25336 Pathogen[ P03363] interacts with 1 human partners:{Q58F21}

25337 [Cluster 2304]GO:0000389+P biological\_process [name] nuclear mRNA 3'-splice site recognition [def] "Recognition of the intron 3'-splice site by components of the assembling U2- or U12-type spliceosome." [GOC

25338 Pathogen[ Q2Q067] interacts with 5 human partners:{O95391;Q15459;Q15637;Q12874;Q15428}

25339 Pathogen[ P0C214] interacts with 5 human partners:{Q15637;Q15428;Q15459;Q12874;O95391}

25340 Pathogen[ P03346] interacts with 5 human partners:{Q12874;O95391;Q15637;Q15459;Q15428}

25341 Pathogen[ Q85601] interacts with 4 human partners:{Q15637;O95391;Q15459;Q12874}

25342 Pathogen[ P14079] interacts with 5 human partners:{Q15637;Q12874;Q15459;Q15428;O95391}

25343 Pathogen[ P03383] interacts with 4 human partners:{Q15459;Q12874;Q15637;O95391}

25344 Pathogen[ P03410] interacts with 5 human partners:{Q15637;Q15428;Q15459;Q12874;O95391}

25345 Pathogen[ P14075] interacts with 5 human partners:{O95391;Q15459;Q15428;Q12874;Q15637}

25346 Pathogen[ P0C206] interacts with 5 human partners:{Q15637;Q12874;O95391;Q15459;Q15428}

25347 Pathogen[ P03363] interacts with 5 human partners:{O95391;Q15459;Q12874;Q15637;Q15428}

25348 [Cluster 2305]GO:0014902+P biological\_process [name] myotube differentiation [def] "The process in which a relatively unspecialized cell acquires specialized features of a myotube cell. Myotube differentiation starts with myoblast fusion and the appearance of specific cell markers (this is the cell development step). Then individual myotubes can fuse to form bigger myotubes and start to contract. Myotubes are multinucleated cells that are formed when proliferating myoblasts exit the cell cycle, differentiate and fuse." [GOC

25349 Pathogen[ Q2Q067] interacts with 2 human partners:{P12755;Q9UMQ3}

25350 Pathogen[ P0C214] interacts with 2 human partners:{P12755;Q9UMQ3}

25351 Pathogen[ P03346] interacts with 2 human partners:{Q9P2K5;Q9UMQ3}

25352 Pathogen[ Q85601] interacts with 3 human partners:{Q9P2K5;P12755;Q9UMQ3}

25353 Pathogen[ P14079] interacts with 3 human partners:{P12755;Q06413;Q9UMQ3}

25354 Pathogen[ P03383] interacts with 1 human partners:{Q9UMQ3}

25355 Pathogen[ P03410] interacts with 3 human partners:{P12755;Q9UMQ3;Q9P2K5}

25356 Pathogen[ P14075] interacts with 1 human partners:{Q9UMQ3}

25357 Pathogen[ P0C206] interacts with 3 human partners:{Q9UMQ3;P12755;Q9P2K5}

25358 Pathogen[ P03363] interacts with 2 human partners:{Q9P2K5;Q9UMQ3}

25359 [Cluster 2306]GO:0070059+P biological\_process [name] apoptosis in response to endoplasmic reticulum stress [def] "Apoptosis that occurs in response to a stimulus indicating endoplasmic reticulum (ER) stress. ER stress usually results from the accumulation of unfolded or misfolded proteins in the ER lumen." [GOC

25360 Pathogen[ Q2Q067] interacts with 6 human partners:{Q9BXH1;P35638;Q9BUX1;Q96RU7;O95831;P18848}

25361 Pathogen[ P0C214] interacts with 6 human partners: {P46379;Q9BXH1;P18848;Q9BUX1;Q96RU7;P35638}

25362 Pathogen[ P03346] interacts with 7 human partners: {Q9BUX1;P35638;P18848;P46379;Q95831;Q96RU7;Q9BXH1}

25363 Pathogen[ Q85601] interacts with 7 human partners: {Q9BXH1;Q95831;Q9BUX1;P18848;P46379;Q96RU7;P35638}

25364 Pathogen[ P14079] interacts with 5 human partners: {Q9BXH1;Q95831;P35638;Q96RU7;Q9BUX1}

25365 Pathogen[ P03383] interacts with 6 human partners: {Q9BUX1;Q95831;P35638;Q96RU7;P18848;Q9BXH1}

25366 Pathogen[ P03410] interacts with 6 human partners: {P35638;Q9BXH1;P18848;Q9BUX1;Q95831;Q96RU7}

25367 Pathogen[ P14075] interacts with 6 human partners: {P35638;Q95831;Q9BXH1;P18848;Q9BUX1;Q96RU7}

25368 Pathogen[ P0C206] interacts with 7 human partners: {Q9BUX1;Q9BXH1;Q96RU7;Q95831;P46379;P18848;P35638}

25369 Pathogen[ P03363] interacts with 6 human partners: {P46379;P18848;Q9BUX1;P35638;Q9BXH1;Q95831}

25370 [Cluster 2307]GO:0000209+P biological\_process [name] protein polyubiquitination [def] "Addition of multiple ubiquitin groups to a protein, forming a ubiquitin chain." [ISBN

25371 Pathogen[ Q2Q067] interacts with 82 human partners: {Q95376;Q99460;Q96J02;Q75832;P48556;P40306;P55036;Q13356;O00231;O00233;Q9H2K2;P62837;P51665;Q15386;P19474;O60260;P28072;P49427;Q9NZJ0;A5LHX3;Q13200;P25787;Q6ZNA4;Q06323;Q6VVB1;Q7Z6Z7;P51965;Q8N726;P28065;O14818;P61077;P63146;Q9Y297;Q86Y13;Q8NE65;Q14997;P60900;Q9UL46;P61289;P51668;P28062;Q96EP1;Q9UNM6;P25788;Q13233;Q92530;P25786;O60291;Q16401;Q5VTR2;Q96FA3;O00232;Q13309;Q15819;Q13216;P28074;P25789;P0CG47;Q95271;P20618;Q9UNE7;Q14139;P0CG48;P49459;P28070;P28066;P68036;Q99436;Q8TAA3;P62987;Q92466;O43242;Q9BVN2;Q13404;P49721;P49720;Q13490;Q9UMS4;Q13867;Q8NEZ5;Q9UKT5;P62979}

25372 Pathogen[ P0C214] interacts with 85 human partners: {Q14997;P51665;Q96J02;P25789;P55036;P19474;P28062;A5LHX3;Q13490;P28065;Q13309;P49427;O14818;Q13867;O43242;Q96FA3;P49459;Q13404;P48556;P40306;Q8N726;Q13200;Q9Y297;O00232;P51965;Q9UMS4;P61077;Q13216;Q9HCE7;Q99460;P28066;O75832;Q15819;Q13233;P49720;Q95071;P28074;Q14139;Q13356;P0CG48;Q9UL46;Q15386;Q95376;Q9NZJ0;P25788;Q9UNM6;O00231;Q06323;P25786;P28072;Q9H2K2;Q6ZNA4;Q8TAA3;P62987;Q9H4P4;O60291;Q99436;Q9BVN2;P0CG47;P25787;Q86Y13;Q7Z6Z7;Q95155;O60260;P35998;P60900;O00233;P51668;Q92466;Q95271;P62979;Q5VTR2;Q9UNE7;Q92530;Q8NE65;Q15008;P28070;P63146;Q6VVB1;P20618;P49721;Q96EP1;Q16401;P17980;Q9UKT5}

25373 Pathogen[ P03346] interacts with 87 human partners: {Q9NZJ0;P25787;Q96J02;P28070;P25789;P55036;P68036;Q99460;Q9UL46;Q5VTR2;Q95155;Q95376;P62987;P28072;P49427;P25788;Q8NEZ5;Q9BYM8;P28074;P49721;O14818;Q8NE65;Q99436;Q9UMS4;P0CG48;Q16401;Q9H4P4;A5LHX3;P28062;Q15386;P49459;P20618;O00232;P51668;P61077;Q96FA3;Q13404;O75832;O00233;Q14139;Q9H2K2;Q96EP0;P51965;Q13309;P63146;P49720;P28065;Q9UKT5;Q9UNE7;P60900;P25786;O00231;P62837;Q13233;Q6ZNA4;Q13356;Q13216;P61289;Q6VVB1;P62979;P28066;Q9UNM6;O60291;Q13867;O60260;Q8TAA3;P0CG47;Q95271;P19474;Q14997;Q13490;Q13200;P48556;Q9BVN2;P51665;Q92466;Q06323;Q95071;Q8N726;Q9Y297;Q92530;Q7Z6Z7;O43242;P40306;Q86Y13;Q96EP1;Q15819}

25374 Pathogen[ Q85601] interacts with 80 human partners: {Q14139;P28066;Q9UNM6;Q96J02;P60900;Q13309;P55036;Q13490;P63146;P25787;P61289;P49427;P25788;Q13216;O75832;Q9UMS4;Q9BVN2;Q9NZJ0;P0CG48;Q15386;Q95155;P51668;Q13867;P68036;P61077;Q96FA3;Q13404;P25789;O60291;O00233;Q9H2K2;P20618;Q8N726;P40306;P51965;P49720;P28062;P49721;P25786;P28072;Q13200;Q13356;P49459;P28065;Q6VVB1;Q8NE65;P62979;Q99436;P28070;Q95376;O60260;Q5VTR2;Q8TAA3;P62837;Q9UL46;Q99460;O00231;P0CG47;Q6ZNA4;Q7Z6Z7;P48556;P28074;Q92530;Q13233;P62987;Q96EP1;Q9H4P4;A5LHX3;P19474;Q92466;Q95271;Q95071;Q06323;Q9UKT5;Q9UNE7;O14818;Q16401;Q86Y13;Q8NEZ5;Q15819}

25375 Pathogen[ P14079] interacts with 78 human partners: {P28065;Q99436;O60260;P62333;Q9UKT5;P48556;P51965;P0CG48;Q9BVN2;P68036;Q13309;Q95271;Q15819;P40306;Q13404;P55036;P28074;O00232;Q96EP0;P49720;O00487;P25787;Q6ZNA4;O75832;Q8N726;P29144;A5LHX3;Q9H2K2;Q13216;P62979;O00233;P35998;P61077;P61289;P62987;Q96FA3;P51665;P20618;Q8TAA3;Q14997;P51668;Q9UMS4;Q13356;P28062;P60900;P19474;Q5VTR2;Q9UNM6;Q13867;P49459;Q99460;Q9BYM8;O14818;P49721;Q92530;Q96J02;Q14139;P49427;Q06323;Q8NEZ5;P62191;P62837;Q9NZJ0;Q92466;Q15008;P43686;O43242;P25788;O00231;P28066;Q9UL46;P0CG47;Q8NE65;P63146;Q16401;P17980;P28072;Q13490}

25376 Pathogen[ P03383] interacts with 69 human partners: {P19474;P55036;P62987;Q9NZJ0;Q13216;Q13233;Q13356;Q14139;P51965;P25789;P60900;P49427;P40306;O00233;Q13490;P49721;Q06323;Q6ZNA4;Q14997;P20618;P61077;O75832;O60260;Q15819;Q13404;Q9UKT5;Q13867;Q95376;Q9UL46;Q9UNM6;P25786;Q99460;P62837;P28072;Q8NE65;Q13200;P28065;P28066;Q5VTR2;Q16401;P62979;O00231;P0CG47;Q96FA3;P68036;Q13309;P49459;P28074;Q92530;P63146;P49720;Q8TAA3;P61289;Q96EP1;Q92466;P28062;Q95271;Q8NEZ5;P48556;O14818;Q99436;P28070;Q9UMS4;P51668;Q9BVN2;Q8N726;P25787;P25788}

25377 Pathogen[ P03410] interacts with 76 human partners: {Q9BVN2;P28070;P55036;Q6ZNA4;P0CG48;P25786;Q15008;Q16401;Q8N726;P49427;P60900;Q14997;P35998;P51965;Q96FA3;Q99460;O00233;Q13490;O00232;Q13867;P49459;Q9UKT5;Q8TAA3;P48556;P49721;Q5VTR2;O60260;P68036;Q13233;A5LHX3;P62979;Q92466;Q99436;Q15819;Q13356;P40306;Q06323;Q9UNE7;Q13200;P25787;Q13309;Q8NEZ5;Q95271;P28062;P51665;P63146;Q8NE65;O14818;P51668;O00231;Q9UNM6;Q13216;P25789;P49720;P62987;Q9UMS4;Q14139;O60291;P280

72;Q9H2K2;Q13404;P25788;P28066;P28065;O43242;Q96EP1;P0CG47;P17980;O75832;P20618;P61077;P62837;Q9UL46;P28074;P61289;Q9NZJ0}

25378 Pathogen[ P14075] interacts with 67 human partners: {Q5VTR2;Q15819;P55036;P25788;P28066;P68036;Q06323;O75832;P62837;Q8TAA3;P60900;P49427;O00233;Q9UL46;Q9BVN2;P49720;P49459;Q14139;P51965;Q13216;Q13200;P48556;Q16401;P28070;P61077;P49721;O00231;Q92530;Q9UKT5;P0CG48;P62979;Q6ZNA4;P28062;Q13490;P28074;P28065;Q96FA3;P19474;P25786;O14818;P62987;Q13309;Q8NEZ5;P28072;Q9UMS4;Q13867;Q14997;P0CG47;P25787;O95376;Q13404;P20618;P63146;Q9UNM6;Q92466;Q9NZJ0;O95271;Q13233;P61289;P40306;P51668;O60260;Q99436;Q8NE65;Q8N726;Q96EP1;P25789}

25379 Pathogen[ P0C206] interacts with 86 human partners: {O95271;P61289;Q99436;P28062;Q9UNM6;Q9UMS4;P0CG48;O60291;O75832;Q9H4P4;P40306;P28065;Q14997;P55036;Q8N726;O95376;Q13309;P25786;P25788;P29144;P68036;Q96EP1;P25787;Q6ZNA4;Q06323;P49720;Q96J02;O00232;P60900;P62837;O95155;Q8NE65;O43242;P49427;Q5VTR2;Q13216;Q13233;A5LHX3;Q15386;P25789;Q13867;P51965;Q96EP0;P20618;Q9UNE7;Q14139;Q13200;Q8TAA3;P28070;P49459;O60260;Q99460;P62979;P28066;Q15819;O14818;Q9NZJ0;P0CG47;Q13356;P28072;Q96FA3;P28074;Q92530;P61077;P49721;P49721;Q92466;Q7Z6Z7;P62987;Q13404;Q9BYM8;Q8NEZ5;Q9UL46;Q9UKT5;O95071;P51668;Q9H2K2;Q6VVB1;O00233;P48556;Q86Y13;Q16401;O00231;P63146;P19474;Q9BVN2;Q13490}

25380 Pathogen[ P03363] interacts with 46 human partners: {Q14139;O95376;Q13490;Q13309;Q96EP1;P51965;Q8NE65;P49459;O60291;Q8NEZ5;Q92530;Q96EP0;Q86Y13;Q13356;O95155;Q5VTR2;P61289;Q6VVB1;P63146;P49427;Q9H2K2;Q6ZNA4;Q7Z6Z7;Q13867;Q96FA3;Q9UKT5;Q9UNE7;P19474;O95271;P62987;O95071;Q9H4P4;Q15386;P51668;Q92466;Q9BVN2;Q8N726;P61077;Q13404;Q9UMS4;Q13216;P62837;Q9NZJ0;Q13233;P68036;Q15819}

25381 [Cluster 2308]GO:0006432+P biological\_process [name] phenylalanyl-tRNA aminoacylation [def] "The process of coupling phenylalanine to phenylalanyl-tRNA, catalyzed by phenylalanyl-tRNA synthetase. In tRNA aminoacylation, the amino acid is first activated by linkage to AMP and then transferred to either the 2'- or the 3'-hydroxyl group of the 3'-adenosine residue of the tRNA." [GOC]

25382 Pathogen[ Q2Q067] interacts with 3 human partners: {O95363;Q9Y285;Q9NSD9}

25383 Pathogen[ P0C214] interacts with 3 human partners: {O95363;Q9Y285;Q9NSD9}

25384 Pathogen[ P03346] interacts with 1 human partners: {Q9Y285}

25385 Pathogen[ Q85601] interacts with 3 human partners: {Q9NSD9;Q9Y285;O95363}

25386 Pathogen[ P14079] interacts with 4 human partners: {Q9Y285;Q9BRP7;O95363;Q9NSD9}

25387 Pathogen[ P03383] interacts with 3 human partners: {Q9Y285;O95363;Q9NSD9}

25388 Pathogen[ P03410] interacts with 4 human partners: {Q9BRP7;Q9Y285;Q9NSD9;O95363}

25389 Pathogen[ P14075] interacts with 3 human partners: {Q9NSD9;O95363;Q9Y285}

25390 Pathogen[ P0C206] interacts with 4 human partners: {O95363;Q9BRP7;Q9Y285;Q9NSD9}

25391 Pathogen[ P03363] interacts with 3 human partners: {Q9NSD9;O95363;Q9Y285}

25392 [Cluster 2309]GO:0061337+P biological\_process [name] cardiac conduction [def] "A heart process that regulates cardiac muscle contraction through signal initiation and propagation." [GOC]

25393 Pathogen[ Q2Q067] interacts with 1 human partners: {Q02078}

25394 Pathogen[ P0C214] interacts with 1 human partners: {Q02078}

25395 Pathogen[ P03346] interacts with 1 human partners: {Q02078}

25396 Pathogen[ Q85601] interacts with 1 human partners: {Q02078}

25397 Pathogen[ P14079] interacts with 1 human partners: {Q02078}

25398 Pathogen[ P03383] interacts with 1 human partners: {Q02078}

25399 Pathogen[ P03410] interacts with 1 human partners: {Q02078}

25400 Pathogen[ P14075] interacts with 1 human partners: {Q02078}

25401 Pathogen[ P0C206] interacts with 1 human partners: {Q02078}

25402 Pathogen[ P03363] interacts with 1 human partners: {Q02078}

25403 [Cluster 2310]GO:0001666+P biological\_process [name] response to hypoxia [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a stimulus indicating lowered oxygen tension. Hypoxia, defined as a decline in O2 levels below normoxic levels of 20.8 - 20.95%, results in metabolic adaptation at both the cellular and organismal level." [GOC]

25404 Pathogen[ Q2Q067] interacts with 34 human partners: {P27540;Q9HBZ2;Q6RW13;P14921;Q13485;Q16656;P18887;A6NIX2;P02511;P22557;P11831;Q96IF1;P63146;Q9UGP4;P84022;P25063;P09972;P29474;Q9Y2N7;Q6RSH7;O15198;O60765;Q96KS0;Q9H6Z9;Q12983;P22415;Q9GZT9;Q92793;P02489;Q9UMX0;Q99814;P08397;O60936;P14625}

25405 Pathogen[ P0C214] interacts with 38 human partners: {Q9UGP4;P29474;O15198;P08294;P14625;Q6RW13;P14921;P02489;P02511;Q16656;Q92793;Q96KS0;P84022;P11831;Q9H6Q4;P22557;Q9HBZ2;P08397;Q9Y2N7;A6NIX2;Q9H6Z9;O60765;P14618;P18887;Q13485;Q9GZT9;P25063;P09972;Q12983;Q99814;P27540;P22415;P40692;Q9UMX0;P63146;O60936;P30566;Q6RSH7}

25406 Pathogen[ P03346] interacts with 35 human partners: {P09972;Q6RSH7;Q9UGP4;O60765;P29474;P14625;Q16656;P11831;P02489;Q96IF1;Q9UMX0;P27540;P22557;Q12983;O00151;O15198;P14921;P84022;P02511;P63146;Q9Y2N7;Q9GZT9;A6NIX2;Q99814;Q9HBZ2;P18887;O60936;Q96KS0;Q99929;Q13485;P25063;Q6RW13;Q92793;Q9H6Z9;P22415}

25407 Pathogen[ Q85601] interacts with 37 human partners: {O15198;P02489;P11831;Q9H6Z9;P63146;P14921;P18887;Q9Y2N7;Q16656;A6NIX2;O60936;O00151;Q99814;P27540;Q9H6Q4;P22415;Q9GZT9;P14618;Q96KS0;O60765;P02511;P09972;Q6RW13;Q9HBZ2;P29474;Q96IF1;P84022;Q9UGP4;Q6RSH7;Q12983;P14625;P08397;Q92793;P40692;P19447;Q13485;Q9UMX0}

25408 Pathogen[ P14079] interacts with 37 human partners: {Q9GZT9;Q99814;Q9Y2N7;P20396;P02511;Q9UMX0;P40692;Q92793;O15198;Q6RW13;Q16656;P09972;P22557;O00151;P02489;Q9H6Q4;Q9NX09;Q96IF1;P08397;P27540;P18887;Q9H6Z9;A6NIX2;P25063;Q8IVP5;O60936;Q12983;P14625;Q6RSH7;Q9HBZ2;P02144;O60765;Q96KS0;P63146;Q9UGP4;P19447;P22415}

25409 Pathogen[ P03383] interacts with 29 human partners: {O15198;Q6RW13;P11831;Q13485;P29474;P27540;O60765;P14921;Q16656;A6NIX2;P02511;P25063;P09972;O60936;Q96KS0;Q12983;Q6RSH7;Q9H6Q4;P84022;Q9UGP4;Q9Y2N7;Q9UMX0;Q9H6Z9;P14625;P08397;P18887;P63146;Q92793;P22415}

25410 Pathogen[ P03410] interacts with 43 human partners: {P84022;P11831;P40692;P18887;P02144;P08397;Q12983;Q96KS0;Q9H6Z9;Q99814;Q9Y2N7;Q9UGP4;P14625;O15198;Q9H6Q4;Q9HBZ2;Q9GZT9;Q96IF1;P27540;Q9UMX0;P22557;A6NIX2;Q92793;P29474;O60936;P09972;P02489;P25063;P02511;P30566;P19447;P63146;P22415;Q13485;Q6RW13;Q6RSH7;Q16656;O00151;O60765;Q8IVP5;Q9NX09;P14921;P20396}

25411 Pathogen[ P14075] interacts with 29 human partners: {P29474;Q12983;Q96KS0;Q9GZT9;Q16656;P11831;O60765;Q9UGP4;Q9Y2N7;Q6RSH7;P08397;P27540;Q13485;O15198;A6NIX2;P14921;P02511;P09972;Q92793;P63146;P22415;P84022;Q6RW13;O60936;P14625;P18887;Q9UMX0;Q9H6Z9;P25063}

25412 Pathogen[ P0C206] interacts with 40 human partners: {P84022;P14921;Q9Y2N7;Q96KS0;Q9GZT9;Q9UGP4;Q96IF1;Q9UMX0;P40692;A6NIX2;O60765;P19447;Q92793;Q12983;O60936;Q16656;P22415;P25063;Q6RW13;Q6RSH7;P22557;O00151;Q13485;P29474;P11831;P09972;Q9H6Z9;P27540;Q9H6Q4;Q99814;O15198;P02511;P08397;P20396;P02489;P18887;P14618;Q9HBZ2;P14625;P63146}

25413 Pathogen[ P03363] interacts with 26 human partners: {P18887;P29474;P27540;Q99929;Q9H6Z9;O60765;P09972;Q9UMX0;P14921;Q9HBZ2;P63146;Q96IF1;Q9UGP4;Q6RSH7;P11831;Q9Y2N7;P84022;Q16656;P22415;Q99814;Q92793;O60936;Q13485;A6NIX2;P02489;O15198}

25414 [Cluster 2311]GO:0006290+P biological\_process [name] pyrimidine dimer repair [def] "The repair of UV-induced T-T, C-T and C-C dimers." [ISBN

25415 Pathogen[ Q2Q067] interacts with 4 human partners: {Q9Y253;P06746;Q03468;Q92466}

25416 Pathogen[ P0C214] interacts with 4 human partners: {P06746;Q92466;Q9Y253;Q03468}

25417 Pathogen[ P03346] interacts with 4 human partners: {Q9Y253;Q03468;Q92466;P06746}

25418 Pathogen[ Q85601] interacts with 4 human partners: {Q03468;P06746;Q92466;Q9Y253}

25419 Pathogen[ P14079] interacts with 4 human partners: {P06746;Q9Y253;Q03468;Q92466}

25420 Pathogen[ P03383] interacts with 4 human partners: {Q9Y253;P06746;Q03468;Q92466}

25421 Pathogen[ P03410] interacts with 4 human partners: {P06746;Q03468;Q92466;Q9Y253}

25422 Pathogen[ P14075] interacts with 4 human partners: {P06746;Q03468;Q9Y253;Q92466}

25423 Pathogen[ P0C206] interacts with 4 human partners: {Q9Y253;Q03468;P06746;Q92466}

25424 Pathogen[ P03363] interacts with 4 human partners: {Q9Y253;P06746;Q92466;Q03468}

25425 [Cluster 2312]GO:0090129+P biological\_process [name] positive regulation of synapse maturation [def] "Any process that increases the extent of synapse maturation, the process that organizes a synapse so that it attains its fully functional state." [GOC

25426 Pathogen[ Q2Q067] interacts with 2 human partners: {Q12834;Q9UJX6}

25427 Pathogen[ P0C214] interacts with 2 human partners: {Q9UJX6;Q12834}

25428 Pathogen[ P03346] interacts with 2 human partners: {Q12834;Q9UJX6}

25429 Pathogen[ Q85601] interacts with 2 human partners: {Q9UJX6;Q12834}

25430 Pathogen[ P14079] interacts with 1 human partners: {Q9UJX6}

25431 Pathogen[ P03383] interacts with 2 human partners: {Q9UJX6;Q12834}

25432 Pathogen[ P03410] interacts with 2 human partners: {Q12834;Q9UJX6}

25433 Pathogen[ P14075] interacts with 2 human partners: {Q9UJX6;Q12834}

25434 Pathogen[ P0C206] interacts with 2 human partners: {Q9UJX6;Q12834}

25435 Pathogen[ P03363] interacts with 2 human partners: {Q9UJX6;Q12834}

25436 [Cluster 2313]GO:0060509+P biological\_process [name] Type I pneumocyte differentiation [def] "The process in which a relatively unspecialized cell acquires specialized features of a Type I pneumocyte. A type I pneumocyte is a flattened cell with greatly attenuated cytoplasm and a paucity of organelles." [GOC

25437 Pathogen[ Q2Q067] interacts with 1 human partners: {O00712}

25438 Pathogen[ P0C214] interacts with 1 human partners: {O00712}

25439 Pathogen[ P03346] interacts with 1 human partners: {O00712}

25440 Pathogen[ Q85601] interacts with 1 human partners: {O00712}

25441 Pathogen[ P14079] interacts with 1 human partners: {O00712}

25442 Pathogen[ P03383] interacts with 1 human partners: {O00712}

25443 Pathogen[ P03410] interacts with 1 human partners: {O00712}

25444 Pathogen[ P14075] interacts with 1 human partners: {O00712}

25445 Pathogen[ P0C206] interacts with 1 human partners: {O00712}

25446 Pathogen[ P03363] interacts with 1 human partners: {O00712}

25447 [Cluster 2314]GO:0006914+P biological\_process [name] autophagy [def] "The process in which cells digest parts of their own cytoplasm\_ allows for both recycling of macromolecular constituents under conditions of cellular stress and remodeling the intracellular structure for cell differentiation." [ISBN

25448 Pathogen[ Q2Q067] interacts with 21 human partners: {Q7Z3C6;Q9Y4P1;Q8NEM7;Q16666;Q99497;O60260;Q9BXW4;Q6ZNE5;Q9BSB4;Q8TDY2;Q14457;Q8IXH6;P60520;O75143;Q9Y4P8;O94817;Q676U5;Q9NT62;Q9H1Y0;Q13501;Q96A56}

25449 Pathogen[ P0C214] interacts with 22 human partners: {Q14457;P60520;O14681;Q9BSB4;Q9Y4P1;Q9BXW4;Q676U5;Q16666;Q8TDY2;Q99497;Q13501;O75143;Q6ZNE5;Q9Y4P8;O94817;Q8IXH6;Q9H1Y0;O60260;Q96A56;Q9NT62;Q9H492;Q7Z3C6}



25450 Pathogen[ P03346] interacts with 30 human partners: {Q16666;Q7Z3C6;Q9Y4P1;Q92622;O75143;P60520;Q96A56;Q12981;Q9BSB4;Q8TDY2;Q9NT62;Q14457;Q9UID3;Q6ZNE5;Q8NAA4;Q14694;P51397;Q8NEM7;Q9C0C7;Q9H492;Q99497;Q969Q5;O60260;Q9BXW4;Q9H1Y0;Q8IXH6;Q676U5;O94817;Q9Y4P8;Q13501}

25451 Pathogen[ Q85601] interacts with 22 human partners: {Q14457;Q9H492;Q99497;Q16666;O75143;Q9BSB4;Q9Y4P1;Q12981;Q8TDY2;O94817;Q7Z3C6;Q9BXW4;Q9Y4P8;Q9H1Y0;Q676U5;Q96A56;O60260;Q9NT62;P60520;Q8IXH6;Q9UID3;Q13501}

25452 Pathogen[ P14079] interacts with 35 human partners: {Q96A56;O60260;Q8NEM7;Q8IXH6;Q9NT62;Q9UID3;Q9Y4P8;Q8TDY2;Q9H492;Q9H0Y0;Q99497;Q86TL0;Q7Z3C6;O75143;Q9H1Y0;Q9Y4P1;Q9BSB4;Q6ZNE5;Q9H8M9;Q96GC9;P60520;Q9HCE0;Q12981;Q8IVP5;Q13501;Q8N682;P51397;A8MW95;Q676U5;O94817;Q14457;Q92622;Q9BXW4;O14681;Q16666}

25453 Pathogen[ P03383] interacts with 19 human partners: {Q14457;Q96A56;Q7Z3C6;O75143;Q9Y4P1;Q8TDY2;Q9NT62;Q9H1Y0;Q8IXH6;O60260;Q676U5;Q16666;Q13501;Q9Y4P8;O94817;O14681;P51397;Q6ZNE5;Q9BSB4}

25454 Pathogen[ P03410] interacts with 35 human partners: {Q9H0Y0;Q8IXH6;Q674R7;Q16666;Q8NAA4;O14681;Q96GC9;Q99497;Q9H1Y0;Q9Y4P1;Q9BSB4;P60520;O75143;Q14457;Q8TDY2;Q13501;Q9HCE0;O60260;Q9Y4P8;O94817;Q86TL0;P51397;Q9H492;Q9BXW4;Q676U5;Q9NT62;Q8NEM7;Q96A56;Q6ZNE5;Q12981;Q7Z3C6;Q8IVP5;A8MW95;Q9UID3;Q5MNZ9}

25455 Pathogen[ P14075] interacts with 20 human partners: {Q14457;Q6ZNE5;O14681;Q9BSB4;Q9NT62;O75143;Q9H1Y0;Q9Y4P1;Q676U5;Q8TDY2;Q16666;Q9Y4P8;P51397;Q8IXH6;Q8NEM7;O94817;O60260;Q96A56;Q13501;Q7Z3C6}

25456 Pathogen[ P0C206] interacts with 30 human partners: {Q7Z3C6;Q8IXH6;Q9BSB4;Q13501;Q9C0C7;Q9BXW4;Q9Y4P1;Q9H492;Q14457;Q16666;Q6ZNE5;Q99497;Q96A56;Q9Y4P8;A8MW95;Q92622;O14681;P51397;Q9H1Y0;Q9HCE0;O60260;Q8TDY2;P60520;Q12981;Q9UID3;Q676U5;O94817;Q86TL0;Q9NT62;O75143}

25457 Pathogen[ P03363] interacts with 24 human partners: {Q9UID3;Q9H492;Q969Q5;Q14457;Q8NEM7;Q9BXW4;O75143;Q9NT62;P60520;Q8NAA4;Q9BSB4;Q16666;Q9C0C7;Q96A56;Q92622;Q7Z3C6;Q6ZNE5;Q8TDY2;Q9Y4P8;Q9Y4P1;Q676U5;Q8IXH6;O94817;Q9H1Y0}

25458 [Cluster 2315]GO:0051225+P biological\_process [name] spindle assembly [def] "The aggregation, arrangement and bonding together of a set of components to form the spindle, the array of microtubules and associated molecules that serves to move duplicated chromosomes apart." [GOC]

25459 Pathogen[ Q2Q067] interacts with 17 human partners: {P18754;Q7Z4H7;O94927;O15379;Q9NVX0;A6NKF1;Q99871;Q8TEP8;Q9BT25;Q9H6D7;Q96MT8;Q9UKT4;O95271;Q9ULG1;Q96CS2;O75376;Q68CZ6}

25460 Pathogen[ P0C214] interacts with 17 human partners: {O94927;Q7Z4H7;Q96MT8;Q9ULG1;Q96CS2;Q8TEP8;Q9BT25;O75376;O15379;Q99871;Q9H6D7;A6NKF1;Q68CZ6;O95271;Q9NVX0;P18754;Q9UKT4}

25461 Pathogen[ P03346] interacts with 17 human partners: {Q9BT25;Q9H6D7;Q99871;Q7Z4H7;O15379;Q9ULG1;P18754;Q8TEP8;Q9NVX0;A6NKF1;Q68CZ6;Q9UKT4;O75376;Q96CS2;O95271;O94927;Q96MT8}

25462 Pathogen[ Q85601] interacts with 18 human partners: {Q9H6D7;Q9BT25;Q99871;Q7Z4H7;Q9UKT4;Q9NVX0;A6NKF1;Q8TEP8;Q96MT8;O75376;Q9ULG1;O94927;Q96CS2;O15379;P18754;O95271;Q68CZ6;P51955}

25463 Pathogen[ P14079] interacts with 17 human partners: {O15379;Q9ULG1;Q9UKT4;Q8TEP8;O95271;Q99871;Q9NVX0;P51955;Q9H6D7;A6NKF1;O75376;Q7Z4H7;Q9BT25;Q68CZ6;P18754;O94927;Q96CS2}

25464 Pathogen[ P03383] interacts with 16 human partners: {O75376;Q9NVX0;Q7Z4H7;Q9UKT4;Q96MT8;A6NKF1;Q8TEP8;Q99871;Q96CS2;O94927;P18754;Q68CZ6;O15379;Q9BT25;Q9H6D7;O95271}

25465 Pathogen[ P03410] interacts with 16 human partners: {Q9UKT4;Q9H6D7;Q8TEP8;Q9ULG1;O75376;Q68CZ6;Q96CS2;O95271;O15379;Q9NVX0;O94927;P18754;A6NKF1;Q99871;Q9BT25;Q7Z4H7}

25466 Pathogen[ P14075] interacts with 16 human partners: {Q96MT8;Q99871;Q7Z4H7;Q9UKT4;Q68CZ6;Q9BT25;Q8TEP8;O75376;Q96CS2;O15379;A6NKF1;Q9NVX0;P18754;O94927;O95271;Q9H6D7}

25467 Pathogen[ P0C206] interacts with 18 human partners: {O95271;P18754;P51955;Q9BT25;Q8TEP8;Q9NVX0;Q9UKT4;A6NKF1;Q9ULG1;O15379;Q96CS2;Q7Z4H7;O94927;O75376;Q9H6D7;Q99871;Q96MT8;Q68CZ6}

25468 Pathogen[ P03363] interacts with 17 human partners: {A6NKF1;Q9ULG1;Q96MT8;O15379;O75376;Q9H6D7;Q9BT25;Q8TEP8;Q68CZ6;O94927;Q9NVX0;Q9UKT4;O95271;Q96CS2;Q99871;P18754;Q7Z4H7}

25469 [Cluster 2316]GO:0014707+P biological\_process [name] branchiomic skeletal muscle development [def] "The process whose specific outcome is the progression of the branchiomic skeletal muscle over time, from its formation to the mature structure. The branchiomic skeletal muscle is derived from cranial mesoderm and controls facial expression, pharyngeal and laryngeal function, operating the jaw. The muscle begins its development with the differentiation of the muscle cells and ends with the mature muscle. Branchiomic muscles of mammals correspond to the gill musculature of fish." [GOC]

25470 Pathogen[ Q2Q067] interacts with 2 human partners: {P78337;O60682}

25471 Pathogen[ P0C214] interacts with 1 human partners: {P78337}

25472 Pathogen[ P03346] interacts with 3 human partners: {P78337;O60682;O43680}

25473 Pathogen[ Q85601] interacts with 2 human partners: {O60682;P78337}

25474 Pathogen[ P14079] interacts with 2 human partners:{P78337;O60682}  
25475 Pathogen[ P03383] interacts with 1 human partners:{P78337}  
25476 Pathogen[ P03410] interacts with 2 human partners:{O60682;P78337}  
25477 Pathogen[ P14075] interacts with 1 human partners:{P78337}  
25478 Pathogen[ P0C206] interacts with 2 human partners:{P78337;O60682}  
25479 Pathogen[ P03363] interacts with 2 human partners:{O60682;P78337}  
25480 [Cluster 2317]GO:0010574+P biological\_process [name] regulation of vascular endothelial growth factor production [def] "Any process that modulates the frequency, rate, or extent of production of vascular endothelial growth factor." [GOC  
25481 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UN36}  
25482 Pathogen[ P0C214] interacts with 1 human partners:{Q9UN36}  
25483 Pathogen[ P03346] interacts with 1 human partners:{Q9UN36}  
25484 Pathogen[ Q85601] interacts with 1 human partners:{Q9UN36}  
25485 Pathogen[ P14079] interacts with 1 human partners:{Q9UN36}  
25486 Pathogen[ P03383] interacts with 1 human partners:{Q9UN36}  
25487 Pathogen[ P03410] interacts with 1 human partners:{Q9UN36}  
25488 Pathogen[ P14075] interacts with 1 human partners:{Q9UN36}  
25489 Pathogen[ P0C206] interacts with 1 human partners:{Q9UN36}  
25490 Pathogen[ P03363] interacts with 1 human partners:{Q9UN36}  
25491 [Cluster 2318]GO:0045830+P biological\_process [name] positive regulation of isotype switching [def] "Any process that activates or increases the frequency, rate or extent of isotype switching." [GOC  
25492 Pathogen[ Q2Q067] interacts with 1 human partners:{Q6ZW49}  
25493 Pathogen[ P0C214] interacts with 1 human partners:{Q6ZW49}  
25494 Pathogen[ P03346] interacts with 1 human partners:{Q6ZW49}  
25495 Pathogen[ Q85601] interacts with 1 human partners:{Q6ZW49}  
25496 Pathogen[ P14079] interacts with 1 human partners:{Q6ZW49}  
25497 Pathogen[ P03383] interacts with 1 human partners:{Q6ZW49}  
25498 Pathogen[ P03410] interacts with 1 human partners:{Q6ZW49}  
25499 Pathogen[ P14075] interacts with 1 human partners:{Q6ZW49}  
25500 Pathogen[ P0C206] interacts with 1 human partners:{Q6ZW49}  
25501 Pathogen[ P03363] interacts with 1 human partners:{Q6ZW49}  
25502 [Cluster 2319]GO:0046849+P biological\_process [name] bone remodeling [def] "The continuous turnover of bone matrix and mineral that involves first, an increase in resorption (osteoclastic activity) and later, reactive bone formation (osteoblastic activity). The process of bone remodeling takes place in the adult skeleton at discrete foci. The process ensures the mechanical integrity of the skeleton throughout life and plays an important role in calcium homeostasis. An imbalance in the regulation of bone resorption and bone formation results in many of the metabolic bone diseases, such as osteoporosis." [GOC  
25503 Pathogen[ Q2Q067] interacts with 1 human partners:{O75030}  
25504 Pathogen[ P0C214] interacts with 1 human partners:{O75030}  
25505 Pathogen[ P03346] interacts with 1 human partners:{O75030}  
25506 Pathogen[ Q85601] interacts with 1 human partners:{O75030}  
25507 Pathogen[ P14079] interacts with 1 human partners:{O75030}  
25508 Pathogen[ P03383] interacts with 1 human partners:{O75030}  
25509 Pathogen[ P03410] interacts with 1 human partners:{O75030}  
25510 Pathogen[ P14075] interacts with 1 human partners:{O75030}  
25511 Pathogen[ P0C206] interacts with 1 human partners:{O75030}  
25512 Pathogen[ P03363] interacts with 1 human partners:{O75030}  
25513 [Cluster 2320]GO:0043569+P biological\_process [name] negative regulation of insulin-like growth factor receptor signaling pathway [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of insulin-like growth factor receptor signaling." [GOC  
25514 Pathogen[ Q2Q067] interacts with 1 human partners:{O15265}  
25515 Pathogen[ P0C214] interacts with 1 human partners:{O15265}  
25516 Pathogen[ P03346] interacts with 1 human partners:{O15265}  
25517 Pathogen[ Q85601] interacts with 1 human partners:{O15265}  
25518 Pathogen[ P14079] interacts with 1 human partners:{O15265}  
25519 Pathogen[ P03383] interacts with 1 human partners:{O15265}  
25520 Pathogen[ P03410] interacts with 1 human partners:{O15265}  
25521 Pathogen[ P14075] interacts with 1 human partners:{O15265}  
25522 Pathogen[ P0C206] interacts with 1 human partners:{O15265}  
25523 Pathogen[ P03363] interacts with 1 human partners:{O15265}  
25524 [Cluster 2321]GO:0006351+P biological\_process [name] transcription, DNA-dependent [def] "The cellular synthesis of RNA on a template of DNA." [GOC  
25525 Pathogen[ Q2Q067] interacts with 1586 human partners:{Q13562;Q0D2J5;Q12901;O60806;Q9HC78;Q96EI5;Q9H4I2;Q01844;Q9NZ81;Q9UM63;Q96SQ5;Q9BUE0;Q9Y473;Q9BYE7;Q14526;Q9Y5K5;Q8WV37;Q9UNN4;Q8N859;O43365;O95602;P52742;Q15573;Q9BRH9;Q9UKI9;Q8NG57;Q96N77;Q9NWB6;C9JN71;Q14151;Q12905;O43463;Q9UPP1;Q7RTT3;Q9NZI7;Q8WZ33;P27540;P17544;O75525;Q13118;P25490;Q33E94;Q6VMQ6;P52434;Q92750;Q03989;P22392;Q9UK13;P35789;Q6V9R5;Q8NA42;O00213;Q9HB65;Q9Y6X8;Q92585;Q96FV9;O43167;Q2M218;Q04864;Q9UHL9;Q9UJN7;O00411;P0C1Z6;Q16236;Q03923;Q9Y4A5;Q9UEG4;P62633;P54252;Q9BUG6;Q96S65;A6BNDX5;O43364;Q8NEM1;Q71F23;O15525;Q13185;Q9UC06;Q99583;Q6Z28;O75155;Q8IZL2;P98182;Q8IX15;Q12837;Q9H7X3;O14744;Q9UPN9;Q9Y5Q3;Q03052;O75461;P56524;Q9UK11;Q9BY41;P17029;Q12796;P52738;Q10587;A8MTY0;Q9HAW0;O75909;Q9Y3C7;A0AVK6;Q8N228;Q9UMS5;Q96D

98;Q9H7R0;Q96PE6;Q8IZD2;A6NFQ7;Q99502;Q9H3H9;Q8IZ26;P60002;Q9HBZ2;Q9BRR0;Q6ZW49;P108  
27;Q8WWY6;A6NJJ1;P15884;P20226;Q9NVM4;Q04726;Q96HR3;O43361;Q9HAU4;P10243;Q9Y462;Q994  
17;P09067;Q96NI8;Q92681;Q16594;Q9UGU0;O75925;Q92922;Q6NUN9;Q8N9R8;P39687;Q9UJL9;Q9UQ  
80;Q9NS56;O60304;Q9BRU2;P23511;P24278;Q8NEP9;Q9H063;Q8WVCO;Q05066;Q8NEF9;Q6ZQV5;Q9HB  
E1;Q06416;Q9NXR8;Q13487;Q63HK5;P0CJ88;Q99081;Q8N0Y2;Q9Y2D1;Q92664;Q5VTD9;Q15928;Q96K  
75;Q9Y3Q8;Q9UHB7;Q12888;Q9H175;Q6XD76;Q00291;Q00470;Q9UBX2;Q9UHR5;Q13887;O00267;Q96R  
K1;P06400;Q8TA94;Q6ZN32;Q9H9T3;Q9NPJ6;Q8WYA1;Q0D2K3;Q96I24;P29374;Q9NPF5;Q86YE8;Q08A  
N1;Q9C005;Q01094;P58317;Q8IYF1;Q9UKV0;Q14678;Q8WW38;Q08999;Q6ZMY9;P40763;Q9H5Q4;Q8WY  
H8;P78424;Q8N8Z8;P14921;Q5VZB9;Q6ZS27;Q9NYB0;A6NP11;Q9UL59;Q96LA8;O15226;P06454;Q8N4  
W9;Q13889;Q13352;P01106;Q9H2P0;Q13148;P10073;Q52LR7;O14503;Q9HAZ2;P36402;O43159;Q7Z5  
89;Q12872;Q16666;P46937;Q15910;Q9NR55;Q16533;O75151;Q9Y3T9;O60481;P6IE81;Q7KZF4;P678  
09;O95402;Q6PD62;Q13485;A6NGD5;Q5SXM1;Q01543;Q6IV72;A8MVS1;Q9UNS1;Q9HAJ7;P10589;Q8N2  
I2;Q6ECI4;Q9UC07;P35680;Q14549;Q9POU4;Q9H9D4;Q12986;Q9NR48;P31274;P13056;Q9C0F0;P312  
68;Q6ZT77;Q8IUE1;Q9UHF7;O43189;P62508;Q6P1J9;Q9ULD5;P51508;Q9UBB5;Q0PNE2;Q14590;A5YK  
K6;Q15596;P48380;Q8WVM0;O14813;Q9NTW7;Q16656;Q9Y2Y9;Q96NG8;P35712;Q6ZN06;Q15233;P411  
82;Q9Y2X9;P54259;Q9H5H4;P10828;Q96AE4;Q15562;Q9GZS3;Q460N3;Q96019;Q9HC52;Q01664;P551  
97;Q8NBB4;O00570;Q9GZS1;Q8N3X6;P82979;Q96H40;P49910;Q8N5U6;Q15326;Q9NZV7;Q96IS3;Q86U  
Q8;P18847;Q9UHX1;P0CJ87;P51531;Q8N9N5;Q32MQ0;P49716;P41970;Q9HAF1;Q6P2D0;Q9HCL3;Q6U7  
Q0;Q13111;Q8WXF8;A6NIX2;Q9Y5Q8;Q8TD23;Q9BW11;Q9NQ87;Q5PSV4;Q96SK3;P61457;Q96TT1;Q147  
U1;Q15697;Q96LW1;Q9NZL3;Q6VUC0;O96004;Q92985;Q6P1K2;Q15059;Q9UL49;Q7Z6R9;Q8HWS3;Q7L2  
R6;O00167;P08151;Q9BZE3;Q9C086;Q15653;P49750;Q15196;Q00613;Q99676;O75478;Q9BRG1;Q86U  
U0;Q96T88;Q13772;P19388;Q96SL8;P37275;Q8IYW8;Q14140;O75081;Q5SXM2;Q05516;Q32MZ4;P207  
49;Q8NF64;Q05481;Q02930;Q9HD15;P52435;Q9NVW2;Q8NCK3;Q460N5;Q8NDW4;O00257;O60543;O758  
20;Q9NZI6;P49116;Q7Z7J5;P10074;Q9HCD5;O60315;Q04206;Q99551;Q9P0L1;Q9H944;P12980;Q141  
19;P50548;Q9H4Z2;Q6P9A1;Q96MA1;Q16633;Q9ULV5;Q8IXT2;Q96PQ6;Q86SE9;Q8N782;Q96NL3;Q6P1  
N0;Q13547;A8MV65;Q9NP66;Q05195;Q8TAW3;Q96AV8;Q9BTT4;P63167;P51815;P14373;Q5VWZ1;Q141  
03;Q9UIS9;O00712;Q9NZI5;Q99990;Q93074;Q8TF20;Q01201;Q6UUUV9;Q9HB58;Q6ZR52;Q15528;Q996  
84;P52741;Q9UDV7;Q14814;P39880;P18850;Q8TF68;Q3KQV3;P50549;P32780;Q99594;O94983;Q8IU  
E0;Q9P255;A6H8Y1;Q8NC26;P17483;P14316;O43296;Q76L83;Q9H4T2;O15379;O75486;O15266;P369  
56;P18615;A6NFD8;O95948;O14709;P41134;Q08ER8;Q9BQ87;Q9UKN8;Q14192;Q5T5D7;Q9BWW4;Q9NQ  
X1;Q9Y5R5;Q92800;Q6NZI2;Q96EZ8;Q6ZMW2;P30876;Q99503;P19387;Q4LE39;Q9UED7;Q16520;P159  
76;O95931;Q9BWX5;Q9H307;Q5T3J3;O75586;Q8N196;Q9Y2G9;Q96JC9;Q9H0E3;Q2M3W8;Q15542;O146  
86;O15535;Q6MZP7;Q6S96;Q7RTT5;Q03933;P28356;Q92754;Q9HC44;Q96ST3;O14628;Q8TBC5;P612  
18;Q96RK0;Q8N8G2;O15350;Q6ZSS3;Q92759;Q6ZRS2;P35638;Q9NY61;Q8TDY2;O75448;Q92945;Q9UF  
W8;Q9NP11;Q8WY22;P54198;Q6ISB3;Q02447;Q99909;Q9NSD4;Q16534;Q2M1K9;Q04727;Q96T58;Q8WY  
36;O60244;Q5HYR2;Q86YP4;P52657;Q6ZNA4;O14896;Q8IX12;P41218;O00401;Q8WUF5;P17030;Q149  
34;Q9H981;Q86WP2;P17031;Q7Z340;P42704;Q86UE3;Q53TQ3;P09086;O75362;Q16670;Q96N95;Q9Y5  
A6;Q9Y3Y2;Q8TF47;O75971;O75175;P17036;Q94993;Q9ULJ3;O14776;Q8TBE0;D6RGH6;P17040;Q155  
60;P17676;Q2QGD7;P17482;Q9P086;P17010;O95625;P11308;Q53H80;P17038;Q8N5Y2;Q7L1Q6;Q9Y4  
Z2;Q9UK12;Q8WYN3;P38935;Q8NDY6;Q9NYF8;P08047;Q8TC21;P11473;Q7RTU5;Q00978;Q96C  
28;O75928;Q7RTT6;Q96RJ6;O75182;Q8NDT2;Q9ULJ6;Q15022;O43829;P16415;Q9BSM1;Q8NHM5;Q5VV  
H5;Q86Y25;Q9H9Y6;Q01892;P0CG00;Q8N5F7;Q8N3S3;P09017;Q8N184;Q96NJ6;P22670;O60563;Q8WU  
B8;O95416;Q13129;Q9H7S9;Q8N726;P11831;P20265;Q7Z3V5;P15172;P0C7T5;Q3SXZ3;Q86VP6;O432  
48;Q6NT76;Q14CW9;P28702;Q9UFB7;Q6IQ21;Q00577;P48552;Q13398;Q53GI3;Q8IU81;Q96MR9;P483  
75;Q15561;Q8NBZ0;Q96BV0;O75446;Q8IZL8;P35227;A8MT65;A6NK53;Q12962;Q9Y295;Q96TJ2;P280  
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25526

Pathogen[ P0C214] interacts with 1612 human

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Pathogen[ P03346] interacts with 2017 human  
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25528 Pathogen[ Q85601] interacts with 1742 human partners: {Q5T230;Q9UQR1;Q9HCZ1;Q8N8C0;Q03701;Q96RK1;Q9UML2;Q9HCG1;P54259;Q9UNN4;P51946;O95619;P01106;Q9P2R6;Q3KNS6;Q92618;P18146;Q494X3;P52657;P10243;Q96IZ0;P17480;Q9HCE1;O75373;Q8N3X6;Q8N1G0;Q969S8;O00401;Q9ULW3;Q68CJ9;Q8N196;P08048;Q969E4;Q9H5I1;O95625;Q8IYN2;Q6NX45;Q6PD62;O15198;Q9UPN9;O75182;P78317;Q8NI51;Q99543;Q96MH2;Q8IXT2;Q9Y250;Q03989;O60225;Q9Y2X0;Q14978;O00213;Q15637;Q92585;P17097;Q9NRC8;P51786;Q96CJ1;Q15014;Q8TE85;Q15532;Q969J2;Q8N9K5;P78424;Q9NZU5;Q15542;Q9UHL9;Q32M78;P28698;Q8IZC7;Q92664;P49639;P15621;O75971;P09629;Q63HK3;P61978;P0CG00;P51815;Q9UHF7;Q9Y5T5;Q96S65;Q13487;P36954;Q9Y3Y2;P54198;Q6ZR52;Q8N5Y2;Q9NQX6;Q15370;Q9HCS7;Q9UKV0;Q96QR8;P08151;Q9H2F5;Q6PEW1;Q86W11;Q8NA42;P11831;Q14929;Q9NT76;Q4LE39;Q15853;Q8TF39;Q9HBT8;Q9UP68;O14896;Q02078;Q9P1U0;Q96JK9;P17676;Q16666;Q5HYR2;P09874;O60481;Q14593;Q96DB2;P62633;Q9BUE0;P17040;Q6ZN11;P11473;O95602;Q2VY69;Q3MJ62;O94864;Q8N720;Q86XU0;Q06455;Q96S49;Q9UNY5;P25208;Q9H1I8;Q14586;Q96MA1;O14529;O15535;Q9NPA5;Q9UJW8;P33076;Q9HAU4;Q9BT49;Q13495;Q8NBB4;Q9NQV7;Q9H8M2;Q6VUC0;Q96JB3;Q9UKL3;Q53ET0;A6NHJ4;Q96PK6;Q9ULJ3;Q13127;Q9NS56;P14373;O43316;Q9H707;Q2M3X9;Q8IUE1;O75528;Q96MX3;Q16236;Q6V9R5;Q5EBL2;C9JN71;O75928;Q53TQ3;Q13490;Q7Z340;Q9BRU2;P14316;P17096;Q8WV37;Q96SR6;Q5JNZ3;Q96ND8;P41134;Q6PG37;Q96K62;Q15834;Q8N8G2;O14813;Q8WVC0;Q9Y4Z2;Q96EK4;Q96RL1;Q5JVS0;Q14765;Q5TYW1;A6NFI3;Q7Z591;Q8N228;O96017;Q07666;Q9UC07;Q96CS4;Q9H1D9;Q92754;Q02556;P17028;P51522;O60563;P42568;P61968;Q8N7M2;Q9P0W2;Q969W8;Q9NUA8;Q8TDD2;Q9BWX5;A6NK75;Q01538;Q6ZYL4;P0CB33;Q9P2K5;Q9ULD5;P09086;P21506;Q6XYB7;Q15466;Q01892;Q8N371;Q9UPW6;A6NJ46;Q86X55;O15534;Q8IUR6;Q9UQ80;P50539;Q12901;Q08999;P56270;Q9H8G1;P15976;O75909;Q9BQG0;Q3SXZ3;Q6UV9;Q9BY41;Q9UL59;Q7RTV0;Q7L945;Q92994;O15265;Q96H20;Q9C0G0;Q16384;P19484;P50750;P17019;Q52LR7;Q96NG8;P15172;Q04724;Q5HY98;A6NNA5;Q96BD5;P14921;Q9ULV5;Q6P1L6;Q03052;Q8N8L2;Q6ZN57;Q96BR6;Q9ULK4;Q6ZMS7;Q96HQ0;Q96JM2;Q8N9R8;P86452;Q9Y2N7;P86452;Q9UQL6;Q8NB12;P13682;P08651;Q3B7T1;Q9UIF9;Q3L8U1;Q86V15;Q6STE5;O75151;Q96JF6;Q8TBE0;Q5PSV4;O75398;P17032;Q16656;Q9C0F0;Q6PF04;Q9UL58;P60002;P17036;Q6DD87;Q9HCL3;Q14CW9;Q86U70;Q06546;Q9Y2



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46;Q49AM1;Q14135;P58317;Q9NQ33;Q9C0F3;Q99814;O15392;Q8TF32;P16383;P27540;Q15776;A8MQ  
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58;Q9HAW0;Q8IUE0;Q8NA19;Q9P2F9;O14646;Q9Y3M9;P17038;Q13469;Q9P255;Q92831;Q9BUJ2;A6NM  
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25529

Pathogen[ P14079] interacts with 1706 human

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25530

Pathogen[ P03383] interacts with 1278 human

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25531

Pathogen[ P03410] interacts with 1704 human

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25532

Pathogen[ P14075] interacts with 1236 human

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Pathogen[ P0C206] interacts with 1853 human

partners: 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25534

Pathogen[ P03363] interacts with 1799 human

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75;Q9NR48;Q14585;O14646;P33076;Q14CW9;P52740;Q14103;Q8IWI9;P51523;Q96028;Q9BWX5;P231  
93;Q14587;Q01201;Q0PNE2;P56270;Q9NPA5;P35712;Q99990;Q9NV56;Q01844;O60393;Q96NG5;Q8N9  
R8;Q9UQR0;O60682;Q9HBM6;Q9Y651;Q7RTU5;Q00978;Q9P2K3;P10242;Q9UL18;P20226;Q5THR3;Q926  
81;Q96F24;Q16526;Q8WUI4;P49910;Q6AZW8;Q3B8N5;P52655;Q5TB30;P17014;Q96GE5;Q9Y2Y4;Q047  
25;Q7RTU4;Q5H9L2;O75362;Q92670;Q8WVM0;Q9UL58;Q13485;O75175;Q8NA19;Q460N5;Q9BTT4;Q8N7  
26;O95076;O95402;P10074;Q96RK0;Q9UBW7;Q12968;Q05195;Q9ULV5;P17482;P52951;P49335;Q9UI  
V1;Q8TD23;O60806;Q9Y6R6;Q03468;Q9Y4A5;P63272;Q9UJN7;P50750;O00167;P78367;Q08945;O005  
70;Q14186;P98182;P31269;Q8IX12;Q6ZS27;Q63HK5;Q6ZN01;Q5HY98;P12980;O60225;A8K8V0;P194  
84;Q9UQR1;Q2QD7;Q8IYN0;O00401;Q8TD26;P84550;Q92541;Q8TB69;Q16385;Q96JL9;O43159;Q9NY  
T6;P17020;Q04363;Q14188;Q9NPJ6;Q3MTS6;Q9BR84;P15884;P41162;O75398;Q8TF47;O95644;A6NP  
11;Q7Z5H3;Q3SY52;A6NIX2;P25440;Q96T88;Q5BXX8;O43361;A6NLW8;Q8IUR6;Q9H7X3;Q9BSG1;Q09F  
C8;Q9UK12;Q15714;Q15973;Q96QS3;O94993;P61978;Q86XF7;Q8IUE0;P05412;Q96MN9;Q6IQ32;P170  
17;Q2VWA4;Q96K58;P40424;Q96AV8;Q9BT49;Q9H116;O60304;Q8TAU3;O15055;Q7Z401;A2RU54;Q006  
13;Q13398;Q9UKT9;Q53GI3;O15405;Q96CJ1;Q5SXM2;O60675;Q86VP6;Q86UD4;Q14934;Q12873;B2RX  
F5;Q9HAJ7;P42568;P28370;Q147U1;Q9NR11;Q95581;P58317;Q04864;P19532;Q04864;Q9H511;Q150  
59;Q6P1N0;Q6AW86;Q9UKL0;Q8IYX0;O60244;Q9ULC4;Q9NQR1;Q5VZB9;Q9ULJ6;Q6P280;Q8NDP4;Q8NF  
J8;P61077;O75486;Q7L945;Q9H204;Q9NVW2;Q12789;Q5EBM4;Q9Y6B2;Q9NQ92;Q14776;Q9Y224;Q5T3  
J3;Q9H0E3;Q9BWW4;O43918;P09629;Q8TC21;A8MXY4;P16989;Q8NB50;Q9BQI9;Q9UFF9;Q52M93;Q155  
73;Q8N9K5;Q9Y543;P55197;P40426;Q96N95;P09874;P35452;Q8WXB4;Q96SQ7;Q9NP71;Q02548;P527  
41;P14970;Q14207;Q9HCG1;Q13363;Q9Y2Q1;Q8WW38;Q06587;Q9P086;Q499Z4;Q9BY31;Q8NFP5;Q96N  
J3;Q14498;O95416;Q8NFZ5;O75478;P16383;Q68DY9;P52743;Q8TAW3;Q9UBG7;O43364;Q9ULK4;P080  
47;Q53TQ3;Q96ES7;Q6ZW49;Q8WTZ3;Q9UMQ3;Q5TEC3;A8MVS1;O00472;Q99081;Q9HC78;Q9NY43;Q8TA  
U0;P82094;Q2M3X9;P15622;Q86YW9;Q9H501;Q8IX03;O60290;Q9UKN8;Q15560;Q6W2J9;Q8IWS0;P483  
80;Q75626;O00716;Q03701;P0C7X2;Q13761;P52742;Q6ZRF7;Q9Y6Y1;Q9H9D4;Q6P3V2;Q2M3W8;Q5MC  
W4;Q7Z7J5;Q15935;Q96EI5;Q8WXF1;A6NFI3;O43298;Q9BWM5;P37198;O43829;Q8N1W2;Q01658;O602  
84;P51531;Q8N8J6;Q8N587;Q92922;P43355;Q8WTS6;Q9NQV6;Q15543;Q9UL36;P53803;P17544;Q9P2  
R6;P52435;Q00577;Q6UUV7;Q8IYI8;P09630;Q96D98;P17040;O94892;Q0VGE8;Q9HCE3;O60828;Q155  
72;Q96BR9;Q8N2W9;Q05481;Q9P0W2;P0CJ78;O15060;Q86W54;Q8N6I1;Q96PM9;Q7Z5L9;Q68CP9;Q955  
03;Q96E25;P52434;Q92800;Q8NHV9;Q16534;Q9P2F9;Q9H1I8;P41212;Q96K75;Q9UQ3;P09017;Q9UJ  
U5;Q9H9T3;O15522;Q5FWF6;Q8NF64;P39880;Q53H80;Q9H9S0;Q9ULX9;Q9UIH9;Q6P2C8;Q9BT81;Q9NY  
W8;A6NJJ6;Q8HWS3;O95251;Q99459;Q13352;P78337;P51815;P15172;Q9UID6;Q96MH2;Q96CS4;Q3MJ

62;Q05516;Q12837;A6NJL1;O43513;Q9BUJ2;O15534;Q8WXF8;Q3ZCX4;Q8TBZ5;Q15561;A8MT65;P50219;Q13106;Q9GZX5;A6NLF2;Q99717;Q8TF50;Q96G25;P17038;P0CJ79;Q5H9L4;Q6P9G9;O60716;P25208;P43356;Q9UPW6;O00257;Q15047;Q12857;Q96NI8;Q8TF32;Q6ZMS7;Q9BYH8;Q9P0T4;Q9UBD0;Q8N7H5;Q9NRC8;P60002;O75525;Q9H4I2;Q9BTA9;Q9H3H9;Q9NWB6;Q9NP66;Q32M78;Q86Y97;P10589;Q6P1X5;P15408;O15198;Q8NBZ0;Q8TBE0;Q96NL3;Q9Y473;P13056;Q8WYH8;Q99594;Q14678;Q5VWG9;Q5PSV4;Q93008;Q8NEM1;Q5HYR2;Q15329;Q9H0E9;Q9UL49;Q99583;Q3KNW1;P78347;Q9UJW9;Q9Y5Q3;Q5T0F9;Q01664;Q8IXH6;Q8WVJ9;P52746;Q9Y5Q8;O75182;A6NNA5;Q05215;Q9BYE7;Q8IZL2;Q9UII5;Q9BZE0;Q92993;P38935;Q9Y6J9;Q96B42;Q9Y2S0;Q01860;Q9P2Y4;Q9BXJ9;P31275;O14813;Q08ER8;Q12824;Q8N3X6;Q03060;Q4V348;Q9UJL9;O14627;Q86X55;Q9BQ70;Q49A33;Q9NV72;Q96N38;Q9BXG8;O00291;Q06730;Q9UIE0;Q14151;Q03052;Q9H8G1;Q9H944;Q99551;O60711;Q02446;Q9UJW8;P68104;Q5H9F3;O14628;Q8NBF1;Q6P4R8;A6NN14;O14503;O14686;Q10587;Q96MN5;O75528;P11142;Q9HBUL;A6NJ46;Q68DY1;Q12888;Q15906;Q92585;P10243;P22670;Q86TJ2;Q7Z3V5;Q9Y222;O75177;Q8N7Q3;Q8TBZ8;Q15650;P10073;Q8NF99;Q14135;O75290;Q9HD42;P67809;Q9NR83;O15535;Q6ZT77;A8MWA4;O43719;Q8N3C0;O75467;O15160;P52747;O75928;P68036;Q6PD62;P28324;Q8N344;Q13118;Q96SQ5;P23511;P17035;Q8N0Y2;Q8N4W9;A6NM28;Q92785;Q9UBB5;Q02577;Q92754;Q7RTU3;A6NFD8;Q9UIS9;Q16594;Q6VUC0;Q6PK81;Q9H5Q4;Q9H5J8;Q6P198;Q9UFB7;Q9HAZ2;Q96H86;Q8TA94;Q5JVG8;Q9UBX0;Q03938;Q7RTT6;Q16600;Q9H2A3;Q14192;Q6QHK4;P11161;Q8NDT2;Q9Y2P7;O00482;Q9H7R5;Q02078;Q9Y3C7}

25535 [Cluster 2322]GO:0009059+P biological\_process [name] macromolecule biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of a macromolecule, any molecule of high relative molecular mass, the structure of which essentially comprises the multiple repetition of units derived, actually or conceptually, from molecules of low relative molecular mass." [CHEBI

25536 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NRN7}

25537 Pathogen[ P0C214] interacts with 1 human partners:{Q9NRN7}

25538 Pathogen[ P03346] interacts with 1 human partners:{Q9NRN7}

25539 Pathogen[ Q85601] interacts with 1 human partners:{Q9NRN7}

25540 Pathogen[ P14079] interacts with 2 human partners:{O94777;Q9NRN7}

25541 Pathogen[ P03383] interacts with 1 human partners:{Q9NRN7}

25542 Pathogen[ P03410] interacts with 2 human partners:{O94777;Q9NRN7}

25543 Pathogen[ P14075] interacts with 2 human partners:{O94777;Q9NRN7}

25544 Pathogen[ P0C206] interacts with 2 human partners:{O94777;Q9NRN7}

25545 Pathogen[ P03363] interacts with 1 human partners:{Q9NRN7}

25546 [Cluster 2323]GO:0030968+P biological\_process [name] endoplasmic reticulum unfolded protein response [def] "The series of molecular signals generated as a consequence of the presence of unfolded proteins in the endoplasmic reticulum (ER) or other ER-related stress\_results in changes in the regulation of transcription and translation." [GOC

25547 Pathogen[ Q2Q067] interacts with 25 human partners:{P05198;Q16236;P02545;P24385;Q9P0U4;P18847;O75807;P18850;P35638;Q9UBS4;Q14203;P27797;Q15173;Q9UBS3;Q9BQ90;P17861;Q9BQE4;P18848;Q93075;O14595;P32929;Q13105;Q9H2G4;P14625;Q14999}

25548 Pathogen[ P0C214] interacts with 26 human partners:{P18850;P14625;O14595;Q14203;O75807;Q9UBS3;P24385;Q14999;Q9UBS4;P32929;P18848;Q15173;P17861;P18847;P49588;Q93075;Q9H2G4;P05198;P27797;P02545;Q9BQE4;Q13105;P35638;Q9BQ90;P55072;Q16236}

25549 Pathogen[ P03346] interacts with 28 human partners:{Q9UBS3;P24385;P18847;P14625;P35638;P17861;Q9H2G4;Q14203;P55072;P02545;Q9BQ90;P18850;Q16236;P18848;Q9BUN8;Q9P0U4;P32929;Q13105;P27797;Q9UBS4;Q9HCU5;Q14999;P51858;Q15173;Q93075;O14595;O75807;P05198}

25550 Pathogen[ Q85601] interacts with 26 human partners:{P02545;Q16236;P24385;Q9UBS3;P18848;Q9UBS4;Q15173;P27797;Q14203;Q9P0U4;P18847;Q9BQ90;Q8N6T3;P18850;P05198;P14625;Q14999;Q9H2G4;O75807;Q93075;O14595;P17861;Q13105;Q9BQE4;P35638;P32929}

25551 Pathogen[ P14079] interacts with 35 human partners:{O95070;O14773;Q9BQ90;Q9BQE4;P61421;Q15173;Q9UBS3;Q9UBS4;P43307;O75807;P05198;Q13105;Q96Q80;Q9GZP9;P35611;Q9BUN8;Q9H2G4;Q9Y6X1;O95292;Q969H8;O14653;P32929;Q93075;P35638;Q16236;Q9P0U4;P18850;P14625;Q96FC9;Q15011;P49588;P02545;Q14999;Q14203;O43731}

25552 Pathogen[ P03383] interacts with 23 human partners:{P02545;Q93075;Q15173;Q14203;Q9BUN8;P18847;P17861;P35638;P24385;Q9UBS4;Q9UBS3;Q13105;Q9BQE4;P05198;P14625;Q16236;Q9H2G4;O75807;P18848;P18850;Q9BQ90;Q14999;P27797}

25553 Pathogen[ P03410] interacts with 39 human partners:{O95292;P35638;P17861;Q9P0U4;P18847;P18848;P61421;Q15173;P49588;P32929;Q16236;P14625;Q96Q80;Q93075;Q9GZP9;Q9UBS3;Q9BQE4;P24385;P43307;Q9Y6X1;Q9BUN8;P02545;O75807;Q9HCU5;Q9UBS4;Q96FC9;Q15011;O14653;Q13105;O43731;Q9H2G4;P18850;P35611;Q9BQ90;O95070;Q14203;Q5MNZ9;P05198;P27797}

25554 Pathogen[ P14075] interacts with 24 human partners:{Q9BQE4;Q9UBS3;Q13105;P17861;P18847;P35638;Q93075;Q9H2G4;P05198;Q14999;P02545;P27797;Q9BUN8;O75807;Q15173;P18848;Q15011;P24385;Q14203;Q9UBS4;Q16236;P14625;P18850;Q9BQ90}

25555 Pathogen[ P0C206] interacts with 34 human partners:{Q9P0U4;Q8N6T3;P27797;O14653;P18850;O75807;Q9UBS4;O95070;Q15173;P17861;O95292;Q14999;P05198;Q93075;Q9BQE4;Q15011;P32929;Q9BUN8;Q9GZP9;Q9H2G4;P55072;O43731;Q9BQ90;P18847;P02545;Q16236;Q9UBS3;O14595;Q14203;Q13105;P18848;P35638;P14625;P24385}

25556 Pathogen[ P03363] interacts with 23 human

partners:{Q16236;P51858;P18848;Q13105;P02545;Q93075;P18847;P18850;Q9UBS3;Q9P0U4;P05198;Q9BQ90;Q14999;Q9H2G4;P27797;Q9UBS4;P17861;P35638;Q15173;O75807;P24385;Q14203;O14595}

25557 [Cluster 2324]GO:0001525+P biological\_process [name] angiogenesis [def] "Blood vessel formation when new vessels emerge from the proliferation of pre-existing blood vessels." [ISBN

25558 Pathogen[ Q2Q067] interacts with 32 human partners:{Q43365;Q9NZI7;P23381;O14786;Q5D1E8;Q9BUP3;O00470;Q13887;P31268;P41970;O96004;P41134;P04792;Q14790;P55347;Q9UII2;Q12904;Q06330;P29474;Q6RSH7;Q9BUL8;P14651;P19338;P06744;Q9Y5J3;O43318;P35579;P50222;Q5UE93;P21673;Q99814;Q9BXJ9}

25559 Pathogen[ P0C214] interacts with 31 human partners:{P41970;O00470;P29474;O43365;Q13887;O14786;Q12904;P55347;P23381;Q9Y5J3;P04792;Q9BUL8;Q06330;P05121;O43318;P14651;Q9NZI7;Q9BUP3;Q9UII2;P41134;P50222;Q5UE93;Q9BXJ9;P05412;Q99814;O96004;P21673;Q5D1E8;P19338;Q6RSH7;Q14790}

25560 Pathogen[ P03346] interacts with 38 human partners:{Q06330;P23381;P05412;Q6RSH7;P31268;P29474;Q9BUP3;P35579;Q9BYW2;Q92826;P21673;P19338;Q9Y5J3;O96004;O43365;P50222;Q9UII2;Q12904;P17542;P41134;O00470;Q9BXJ9;Q5D1E8;Q99814;Q13887;O00522;P35713;Q14790;P55347;P41970;P06744;Q5UE93;O43318;Q9BUL8;P04792;O14786;Q9NZI7;P14651}

25561 Pathogen[ Q85601] interacts with 32 human partners:{P41134;Q06330;P35579;Q9BUL8;Q14790;P41970;P23381;P06744;Q99814;P21673;P19338;O14786;O96004;P50222;Q9UII2;Q9BXJ9;P05412;O00470;P05121;P29474;Q6RSH7;P55347;P04792;P14651;O43365;O43318;Q5UE93;Q9BUP3;Q13887;Q9NZI7;Q9Y5J3;Q5D1E8}

25562 Pathogen[ P14079] interacts with 32 human partners:{P35579;P23381;Q5D1E8;Q99814;P55347;Q9NP84;Q9BXJ9;Q9UII2;O96004;O60895;P06744;Q9BUL8;Q9BUP3;Q9H488;P19338;Q06330;Q9NZI7;Q14790;Q9Y5J3;O43365;Q6RSH7;P41134;Q12904;P05412;P04792;O00470;P21673;Q5UE93;P41970;P50222;O00522;P14651}

25563 Pathogen[ P03383] interacts with 26 human partners:{Q06330;O00470;Q12904;P29474;P19338;P50222;Q5D1E8;O43365;P04792;O43318;Q6RSH7;P55347;O96004;Q9UII2;P06744;P23381;Q9BXJ9;Q9NZI7;Q9BUL8;Q9BUP3;P41970;Q5UE93;P35579;P21673;P14651;P05412}

25564 Pathogen[ P03410] interacts with 35 human partners:{O14786;Q9Y5J3;P05121;Q5UE93;O00470;P06744;O96004;O60895;Q99814;Q06330;P50222;Q9BUL8;P14651;P23381;P41134;P35579;P04792;Q12904;Q9UII2;O43318;P29474;Q5D1E8;Q9BUP3;P19338;P21673;P05412;O00522;Q6RSH7;P55347;P41970;Q9NP84;Q9NZI7;Q9H488;O43365;Q9BXJ9}

25565 Pathogen[ P14075] interacts with 25 human partners:{P29474;Q9BUP3;P19338;Q9BUL8;P06744;P23381;P05412;Q9BXJ9;O00470;Q6RSH7;Q5UE93;P04792;Q9NZI7;O43365;P55347;O96004;Q9UII2;Q12904;O43318;P35579;Q5D1E8;Q06330;P41970;P21673;P50222}

25566 Pathogen[ P0C206] interacts with 35 human partners:{Q13887;Q06330;Q9BUP3;O43365;O00470;P05412;P14651;O43318;P19338;P04792;P31268;P41970;Q9NZI7;O14786;O96004;P41134;P21673;P06744;Q6RSH7;Q9Y5J3;Q5D1E8;Q14790;Q9BUL8;P35579;P29474;P05121;Q5UE93;Q99814;Q9BXJ9;P23381;Q9UII2;O00522;Q12904;P55347;P50222}

25567 Pathogen[ P03363] interacts with 33 human partners:{Q9BUL8;P29474;Q9BUP3;P19338;Q9Y5J3;P06744;P35579;O14786;O43365;P14651;Q06330;O43318;Q8N302;P55347;P23381;P21673;Q6RSH7;Q5UE93;O00522;P41134;P31268;Q9NZI7;O96004;Q92826;O00470;Q99814;P50222;Q7Z5H3;P05412;Q5D1E8;P41970;P04792;Q9BXJ9}

25568 [Cluster 2325]GO:0001714+P biological\_process [name] endodermal cell fate specification [def] "The cell fate determination process that results in a cell becoming capable of differentiating autonomously into an endoderm cell in an environment that is neutral with respect to the developmental pathway\_ upon specification, the cell fate can be reversed." [GOC

25569 Pathogen[ Q2Q067] interacts with 2 human partners:{P35680;Q01860}

25570 Pathogen[ P0C214] interacts with 1 human partners:{Q01860}

25571 Pathogen[ P03346] interacts with 3 human partners:{Q01860;P35680;Q9H9S0}

25572 Pathogen[ Q85601] interacts with 2 human partners:{P35680;Q01860}

25573 Pathogen[ P14079] interacts with 2 human partners:{P35680;Q01860}

25574 Pathogen[ P03383] interacts with 1 human partners:{Q01860}

25575 Pathogen[ P03410] interacts with 2 human partners:{Q01860;P35680}

25576 Pathogen[ P14075] interacts with 1 human partners:{Q01860}

25577 Pathogen[ P0C206] interacts with 3 human partners:{Q01860;P35680;Q9H9S0}

25578 Pathogen[ P03363] interacts with 2 human partners:{Q9H9S0;Q01860}

25579 [Cluster 2326]GO:0031295+P biological\_process [name] T cell costimulation [def] "The process of providing, via surface-bound receptor-ligand pairs, a second, antigen-independent, signal in addition to that provided by the T cell receptor to augment T cell activation." [ISBN

25580 Pathogen[ Q2Q067] interacts with 9 human partners:{P31749;Q9BPZ7;P25063;Q9BVC4;O75791;P60953;P27986;P63000;Q6R327}

25581 Pathogen[ P0C214] interacts with 10 human partners:{Q9BPZ7;P63000;Q9BVC4;P62993;P60953;Q6R327;P25063;O75791;P27986;P31749}

25582 Pathogen[ P03346] interacts with 10 human partners:{Q9BVC4;Q9BPZ7;P60953;P62993;P31749;P25063;Q6R327;P63000;P27986;O75791}

25583 Pathogen[ Q85601] interacts with 8 human partners:{P31749;P62993;Q9BPZ7;P63000;P27986;Q9BVC4;P60953;O75791}

25584 Pathogen[ P14079] interacts with 7 human partners: {Q6R327;Q9BXL7;Q9BVC4;O75791;P25063;P62993;Q9BPZ7}

25585 Pathogen[ P03383] interacts with 7 human partners: {P27986;O75791;P31749;Q9BPZ7;P60953;P25063;P63000}

25586 Pathogen[ P03410] interacts with 12 human partners: {P27986;P20963;P63000;Q9BPZ7;P31749;Q9BVC4;Q9BXL7;P25063;Q6R327;P60953;P62993;O75791}

25587 Pathogen[ P14075] interacts with 8 human partners: {P60953;O75791;Q9BPZ7;P31749;Q6R327;P27986;P63000;P25063}

25588 Pathogen[ P0C206] interacts with 10 human partners: {P31749;O75791;P27986;P62993;Q6R327;P25063;P63000;Q9BPZ7;P60953;Q9BVC4}

25589 Pathogen[ P03363] interacts with 7 human partners: {Q9BVC4;O75791;P63000;P31749;P60953;P27986;Q6R327}

25590 [Cluster 2327]GO:0035887+P biological\_process [name] aortic smooth muscle cell differentiation [def] "The process in which a relatively unspecialized cell acquires specialized features of a smooth muscle cell surrounding the aorta." [GOC

25591 Pathogen[ Q2Q067] interacts with 2 human partners: {P51531;Q9HBD4}

25592 Pathogen[ P0C214] interacts with 2 human partners: {Q9HBD4;P51531}

25593 Pathogen[ P03346] interacts with 2 human partners: {Q9HBD4;P51531}

25594 Pathogen[ Q85601] interacts with 2 human partners: {P51531;Q9HBD4}

25595 Pathogen[ P14079] interacts with 1 human partners: {P51531}

25596 Pathogen[ P03383] interacts with 2 human partners: {Q9HBD4;P51531}

25597 Pathogen[ P03410] interacts with 2 human partners: {P51531;Q9HBD4}

25598 Pathogen[ P14075] interacts with 2 human partners: {Q9HBD4;P51531}

25599 Pathogen[ P0C206] interacts with 2 human partners: {P51531;Q9HBD4}

25600 Pathogen[ P03363] interacts with 2 human partners: {Q9HBD4;P51531}

25601 [Cluster 2328]GO:0021766+P biological\_process [name] hippocampus development [def] "The progression of the hippocampus over time from its initial formation until its mature state." [GO\_REF

25602 Pathogen[ Q2Q067] interacts with 7 human partners: {P62258;O60315;O15350;P11831;Q92769;Q07687;P47928}

25603 Pathogen[ P0C214] interacts with 6 human partners: {O15350;P11831;Q07687;P47928;Q92769;O60315}

25604 Pathogen[ P03346] interacts with 8 human partners: {P11831;O60315;P62258;P56177;O15350;Q92769;Q9H2C1;P47928}

25605 Pathogen[ Q85601] interacts with 7 human partners: {P11831;O60315;P62258;Q92769;O15350;Q07687;P47928}

25606 Pathogen[ P14079] interacts with 9 human partners: {P24588;O15350;O60315;O14949;Q15078;Q92769;P62258;Q07687;P47928}

25607 Pathogen[ P03383] interacts with 6 human partners: {P11831;Q07687;Q92769;O15350;P47928;P62258}

25608 Pathogen[ P03410] interacts with 8 human partners: {P62258;P11831;Q07687;Q92769;P47928;O15350;O14949;P24588}

25609 Pathogen[ P14075] interacts with 6 human partners: {P11831;P47928;Q07687;O15350;Q92769;P62258}

25610 Pathogen[ P0C206] interacts with 9 human partners: {Q07687;Q92769;P62258;Q9H2C1;P11831;O60315;O15350;P47928;P56177}

25611 Pathogen[ P03363] interacts with 6 human partners: {P62258;O60315;P56177;P11831;P47928;Q07687}

25612 [Cluster 2329]GO:0007072+P biological\_process [name] positive regulation of transcription on exit from mitosis [def] "Any process that increases the frequency, rate or extent of transcription as the cell leaves M phase. M phase is the part of the mitotic cell cycle during which mitosis and cytokinesis take place." [GOC

25613 Pathogen[ Q2Q067] interacts with 1 human partners: {Q9NRC8}

25614 Pathogen[ P0C214] interacts with 1 human partners: {Q9NRC8}

25615 Pathogen[ P03346] interacts with 1 human partners: {Q9NRC8}

25616 Pathogen[ Q85601] interacts with 1 human partners: {Q9NRC8}

25617 Pathogen[ P14079] interacts with 1 human partners: {Q9NRC8}

25618 Pathogen[ P03383] interacts with 1 human partners: {Q9NRC8}

25619 Pathogen[ P03410] interacts with 1 human partners: {Q9NRC8}

25620 Pathogen[ P14075] interacts with 1 human partners: {Q9NRC8}

25621 Pathogen[ P0C206] interacts with 1 human partners: {Q9NRC8}

25622 Pathogen[ P03363] interacts with 1 human partners: {Q9NRC8}

25623 [Cluster 2330]GO:0006108+P biological\_process [name] malate metabolic process [def] "The chemical reactions and pathways involving malate, the anion of hydroxybutanedioic acid, a chiral hydroxydicarboxylic acid. The (+) enantiomer is an important intermediate in metabolism as a component of both the TCA cycle and the glyoxylate cycle." [ISBN

25624 Pathogen[ Q2Q067] interacts with 3 human partners: {P07954;P40925;P40926}

25625 Pathogen[ P0C214] interacts with 5 human partners: {Q5I0G3;P07954;P40926;P48163;Q16798}

25626 Pathogen[ P03346] interacts with 3 human partners: {P40926;P40925;P07954}

25627 Pathogen[ Q85601] interacts with 3 human partners: {P07954;P40925;P40926}

25628 Pathogen[ P14079] interacts with 2 human partners: {P07954;P40925}

25629 Pathogen[ P03383] interacts with 2 human partners: {P40926;P40925}

25630 Pathogen[ P03410] interacts with 3 human partners: {P07954;P40926;P40925}

25631 Pathogen[ P14075] interacts with 2 human partners: {P40925;P40926}



25632 Pathogen[ P0C206] interacts with 3 human partners:{P40925;P40926;P07954}

25633 Pathogen[ P03363] interacts with 1 human partners:{P40925}

25634 [Cluster 2331]GO:0001933+P biological\_process [name] negative regulation of protein phosphorylation [def] "Any process that stops, prevents or reduces the rate of addition of phosphate groups to amino acids within a protein." [GOC

25635 Pathogen[ Q2Q067] interacts with 10 human partners:{P04156;Q8WUQ7;Q9BZQ8;O60260;P14635;P84022;O00255;Q9GZV5;Q7Z2X4;Q96IU2}

25636 Pathogen[ P0C214] interacts with 9 human partners:{P84022;Q9GZV5;P14635;Q7Z2X4;Q9BZQ8;P04156;Q96IU2;O60260;O00255}

25637 Pathogen[ P03346] interacts with 12 human partners:{Q9GZV5;Q9P2D0;Q7Z2X4;P84022;P14635;O00255;Q9BZQ8;O60260;Q96IU2;P04156;Q8WUQ7;Q8TDZ2}

25638 Pathogen[ Q85601] interacts with 10 human partners:{Q9P2D0;Q9GZV5;Q7Z2X4;Q9BZQ8;P14635;O00255;P84022;O60260;P04156;Q96IU2}

25639 Pathogen[ P14079] interacts with 12 human partners:{O60260;Q9GZV5;Q96IU2;Q8TDZ2;P04156;P14635;Q9P2X3;Q8WUQ7;Q7Z2X4;O00255;Q9BZQ8;Q9P2D0}

25640 Pathogen[ P03383] interacts with 9 human partners:{P04156;Q96IU2;P14635;Q9BZQ8;P84022;O60260;O00255;Q8WUQ7;Q9GZV5}

25641 Pathogen[ P03410] interacts with 13 human partners:{P84022;Q8WUQ7;Q96IU2;Q8TDZ2;O60260;Q9GZV5;P14635;Q7Z2X4;Q9P2X3;P04156;Q9BZQ8;Q9P2D0;O00255}

25642 Pathogen[ P14075] interacts with 10 human partners:{Q96IU2;Q9GZV5;P14635;P04156;Q9P2X3;O00255;Q9BZQ8;P84022;Q8WUQ7;O60260}

25643 Pathogen[ P0C206] interacts with 13 human partners:{P84022;Q9BZQ8;Q7Z2X4;P04156;O00255;Q8WUQ7;Q9GZV5;O60260;P14635;Q9P2D0;Q9P2X3;Q8TDZ2;Q96IU2}

25644 Pathogen[ P03363] interacts with 7 human partners:{Q9BZQ8;Q9P2D0;P04156;Q8WUQ7;Q9GZV5;P84022;Q96IU2}

25645 [Cluster 2332]GO:0008150+P biological\_process [name] biological\_process [def] "Any process specifically pertinent to the functioning of integrated living units

25646 Pathogen[ Q2Q067] interacts with 156 human partners:{Q9HD33;Q9Y2J2;O95671;P53370;Q9NYP9;Q14657;O15234;P98182;Q96EL2;Q9Y3S2;Q9UK11;Q9ULX6;A5PL33;P59022;Q9GZV5;Q9GZP8;Q5SRH9;P23610;Q53EQ6;P10073;Q9P2M7;O00193;Q92797;Q9ULD5;Q9PNE2;Q96BZ8;Q9P0M2;P57060;Q9UKJ3;Q15059;O60829;P49750;Q9P0W5;A6NNW6;O76013;Q9UJY1;A3KN83;Q9BZV1;Q9H322;Q9P3C0;O15453;P56555;P18615;Q9H171;Q9Y5R5;P53672;Q4LE39;Q9NSB4;Q03252;Q9BY42;Q9H5F2;Q8NBR6;Q04727;O15117;Q86V97;Q5T280;O95625;Q7RTU5;Q9NY87;Q96NJ6;Q9BZE9;O14972;O43583;Q8N3J9;Q15937;Q9H6Y2;Q9BZE7;O60287;Q9Y2Q9;Q15935;Q2TAL8;Q9H2C0;Q63HK3;Q9UII5;Q9NWX4;Q9H2W6;Q9BPZ7;Q96A73;Q9BTE7;P43358;P82650;P50221;Q9UKJ5;O60826;Q9NRL3;Q96NG5;O14530;Q9NPI8;Q9BUW7;Q9UBW7;Q9UBW7;Q99618;P57055;Q70EK8;Q9Y592;Q9NR77;Q9BVC6;Q8N0V3;Q12980;Q9Y2P8;Q9NRY5;Q9H0A9;P41162;Q9Y6Z5;O75564;Q70EK8;Q9H1B7;Q9Y4K1;Q99619;O75638;Q9H9J2;O60290;Q9H0U9;Q9UBL0;Q96GG9;Q9BQ65;Q5TEC3;Q8WVZ9;O43765;P0C7X2;Q93052;Q92670;Q5C9Z4;P82664;Q96FN9;Q8N5J2;Q9BZF9;P84101;Q96M91;P43359;O14512;Q9BYS1;Q5T7W7;Q9HCM9;Q9Y421;Q969X6;Q9BXF6;Q9Y675;Q8WVK2;Q92917;Q15651;Q9P0V3;Q6PI98;Q7Z794;Q9HCI5;P49754;O95153;Q9Y608;Q969T9;Q9NYP3;P43360;O14879;Q96B26;Q9NPC6;Q6P2E9;Q9NQR4}

25647 Pathogen[ P0C214] interacts with 188 human partners:{Q9HD33;Q9BPZ7;Q6RFH5;O95671;O15234;Q15059;Q14264;O15117;Q96EL2;P49754;Q9H9J2;Q9BQ65;O76013;P84101;Q04727;P53672;Q8WUX2;Q9H6Y2;O95153;Q63HK3;Q9ULD5;Q6P2E9;Q9H4I8;Q15651;Q53EQ6;O15194;Q9UJY1;Q9P0V3;Q9NRY5;Q96M91;O14879;P43360;O60826;Q9UKJ3;Q9Y3C0;Q9H171;P43358;Q7Z794;O60829;P53370;Q5SRH9;O14513;Q9P0M2;Q8N5J2;Q9BTE6;Q92797;O95625;Q969T9;Q9UK11;Q8NBR6;O14530;Q9NPC6;Q53S33;Q96A73;Q96NG5;Q8WVZ9;Q9Y2Q9;Q9H0A9;Q9NYP3;Q7RTU5;Q9UII5;O60287;P82664;Q9BZV1;O60290;P18615;O75564;Q9UKJ3;Q9BZE9;Q86V97;Q9BY42;Q70EK8;Q9Y421;Q9Y2P8;Q9Y6Z5;Q8WVK2;Q9NRY5;A6NNW6;Q6PI98;P49750;Q03252;P57060;Q12980;Q9NQR4;Q8IYX8;Q9H0A0;O15453;Q9GZV5;Q9NYP9;Q68D10;Q5JTY3;Q92917;Q969X6;Q6GMV2;P98169;Q9BUW7;Q9BZE7;A2RTX5;Q99618;Q14019;Q9P0W5;Q9H1B7;Q9Y608;Q3SYA9;Q0PNE2;Q99619;Q9UBW7;Q9H322;Q9BXF6;Q2M3D2;Q9NR77;Q9HCM9;A3KN83;Q9ULX6;O00193;Q4LE39;P43359;Q9Y4X0;Q9H5X1;Q9BTE7;O94903;P59022;Q9NPI8;Q15935;Q9H8M2;Q8N2G8;Q9N2M5;P0C7X2;Q9P2M7;Q9H9E1;Q9BVC6;Q9HCI5;P98182;Q9H0U9;Q9UBL0;Q5TEC3;O14972;Q9BZF9;Q9H2W6;Q9Y675;Q8WWM7;Q8N0V3;P50221;Q9NWX4;Q5H9L4;P41162;P56555;Q8N3J9;Q5T7W7;Q5T280;Q9H2C0;Q5C9Z4;Q96NJ6;O14512;P23610;Q8NB25;Q96FN9;Q9BZL1;Q9BYS1;Q14657;Q9H5F2;Q8IZ73;O43765;Q9NY87;Q8WV07;Q9UJY1;Q9H3K2;P52746;Q96N20;Q96BZ8;Q86U38;P82650;O43583;P57055;Q96B26;Q9BVG4;Q2TAL8;Q9Y5R5;Q15937;Q9Y4K1;Q9NSB4;P10073;Q8WV59;O75638;Q92670;Q9Y592;Q96GG9;Q9NRL3}

25648 Pathogen[ P03346] interacts with 249 human partners:{Q96NG5;Q9UKS7;Q96N20;Q9H7Z3;O15234;O75564;P98182;Q9BZL1;Q9P0M2;Q96EL2;Q96A73;Q9NQC8;Q9NY87;Q96NJ6;O95625;A3KN83;P50221;P57055;Q9BQE9;Q9Y3C0;Q9HCS5;Q8IVW6;Q9ULD5;Q9H0A9;Q96JP2;P23610;Q9BYG8;O60287;Q9H2Z4;Q8NFV4;Q70EK8;Q96G27;Q1KMD3;A6NNW6;Q03828;P57060;P84101;Q9H3K2;Q9GZV5;O94875;Q9H171;Q2TAL8;Q9GZP8;P49754;Q9N2M5;Q969X6;Q9BY42;Q4L180;O60290;Q5T280;O15225;Q5T7W7;Q9BPZ7;Q9Y5M1;Q96BZ8;Q9P2W1;Q96W07;P43360;Q9NSB4;Q0PNE2;O95177;Q9Y6Z2;Q9BZV1;Q969T9;P49750;P56555;Q9UK11;Q9UJY1;Q06250;O95671;Q8WW59;Q9GZL8;O00193;Q9H2C0;Q9HCK0;Q9H2W6;Q96GG9;Q9NWX4;P0C7X2;Q96BR9;O95153;Q9Y3S2;Q15847;Q7RTU5;Q6PI98;Q96B26;Q92670;Q9Y5R5;O14972;Q9UKJ5;Q9BZE7;Q8IYX8;O15194;Q9UID3;Q4V328;Q15059;Q9P565;Q9BZE9;Q9UKJ3;Q9ULX6;Q9H5F2;Q9Y592;P98169;P53370;O14530;Q9HB31;Q9HAU0;Q7Z794;Q9BQ65;Q9C0H6;Q9Y675;P41162;Q8WVK2;O43583;Q6UW56;Q9Y421;Q9Y608;P82650;Q68D10;Q9BZ29;Q14153;Q9NQR4;Q9H4I8;Q9H9E1;Q14264;Q13166;Q8WWE0;Q9Y2P8;Q9BVC5;Q9P0V3;Q15646;Q9Y4H4;P13985;P52746;Q9UBL0;Q8N5J2;Q9P0W5;O60826;Q9H322;O14879;Q8N0V3;P58107;Q9BU



- W7;Q16891;O14715;Q6P2E9;Q9BZD3;Q9HCM9;Q92784;Q9BTE7;Q9Y6I7;Q99619;Q9HD33;Q9NR77;Q9Y4  
P9;P10073;Q9H6Y2;Q9H8M2;Q9BVG4;Q9NRY5;O15453;Q53EQ6;Q8WVZ9;Q63HK3;Q2M3D2;Q9H0U9;Q9Y2  
J2;Q5SRH9;Q96M91;Q15935;Q86VF2;A5PL33;O43765;Q9BVC6;Q92797;Q03252;Q8TE68;Q4LE39;Q9Y6  
Z5;P02728;Q15937;Q9BTY7;Q15435;Q9NYP3;Q75638;Q04727;P10768;Q43763;Q9UII5;Q14019;Q6RF  
H5;Q15527;Q9BXF6;Q9BZF9;Q12980;Q15270;Q92917;Q9BXM8;Q7Z3D6;P59022;Q5H9L4;Q9NPI8;Q134  
01;Q9Y4K1;Q96002;Q10571;Q8NI36;O15117;Q15651;P82664;O14512;Q93052;Q60829;Q9BYS1;Q86X  
76;P43358;Q96FN9;Q8TAU0;Q9BZR9;Q5JTJ3;Q8WXX7;Q9NYP9;Q6FIF0;Q14C87;Q16204;O43900;Q8NB  
R6;Q3SYA9;Q8N3J9;Q14657;P53672;Q5TEC3;Q99618;P18615;Q00765;Q9H1B7;Q9NRL3;Q8N2G8;Q9P2  
M7;P43359;Q9H9J2;Q9HCI5;Q5C9Z4;O76013;Q86V97;Q9UBW7;Q9NPC6;Q9Y2Q9;Q8WU76}
- 25649 Pathogen[ Q85601] interacts with 167 human  
partners: {Q53EQ6;O14530;O95625;O43765;Q9NRL3;Q9Y608;Q63HK3;O15234;Q6P2E9;Q4LE39;Q9BZ  
L1;Q96EL2;Q96A73;Q9H8M2;Q9Y2J2;Q9NY87;Q9GZW5;O76013;Q9H5F2;P10768;Q92917;P53672;Q9NS  
B4;Q8N0V3;Q9ULD5;Q96JP2;Q5C9Z4;O14879;O95671;O95153;P57060;O15194;O60290;Q969X6;Q8N5  
J2;Q9Y6Z5;Q9H2W6;P59022;Q9BPZ7;Q9BZF9;Q5H9L4;Q9P0W5;Q9NPI8;P56555;Q969T9;Q93052;Q9Y3  
C0;Q96NG5;P0C7X2;Q03252;Q9UII5;P55145;Q5SRH9;Q9BZR9;Q9UJJ7;P49754;Q7RTU5;P18615;Q9NR  
Y5;Q9H6Y2;O14972;Q9BZV1;P41162;Q9UK11;Q15651;Q9BZE9;Q15059;P53370;Q9HAU0;Q9UBW7;Q9NP  
C6;Q9Y592;P52746;Q7Z794;Q9Y675;Q9H0A9;P43360;Q9H2C0;Q9NQR4;O15117;Q6PI98;Q5T280;Q9H1  
71;Q8WVZ9;Q9H322;Q9ULX6;Q9BXF6;Q96N20;Q4L180;Q9UKJ3;Q9UBL0;Q14657;Q8WV07;Q9NYP9;Q0PN  
E2;Q99618;Q04727;P98169;A2RTX5;Q70EK8;Q9UKJ5;Q2TAL8;Q96NJ6;Q9Y2P8;Q9Y2Q9;Q86V97;Q9NR  
77;Q9Y4K1;Q9NYK5;P82650;Q8WWM7;Q2M3D2;Q6GMV2;Q9HD33;Q92797;Q9P0M2;Q60287;Q15937;P162  
04;Q00193;O75638;Q9NZM5;P84101;Q8NBR6;O15453;A3KN83;Q6RFH5;Q60826;Q9Y5R5;Q92670;P502  
21;Q9H9E1;Q9P0V3;P57055;O94903;Q8N3J9;Q8N2G8;P82664;O14512;Q9BY42;P43358;Q9H9J2;P433  
59;Q9BTE7;O43583;Q9H0U9;Q15935;Q9C0H6;O43900;O75564;Q14264;Q5TEC3;Q9UID3;Q96B26;Q9UJ  
Y1;P98182;Q9H1B7;Q9P2M7;Q96GG9;Q96M91;Q99619;Q96FN9;Q9HCM9;Q8IYX8;P10073;Q9HCI5;P497  
50}
- 25650 Pathogen[ P14079] interacts with 321 human  
partners: {Q9Y3C0;O15255;Q5VV42;Q9H0U9;Q96M91;Q5TGZ0;O15442;O15194;Q9GZN8;Q9BZP3;O755  
56;Q9BUV8;Q9Y4P9;Q9Y2J2;Q96GG9;O76087;Q8N3T6;Q14C87;Q96FN9;Q8NEB7;P09565;Q9BZL1;Q9GZ  
U0;O15225;Q9BVC5;P57088;Q9BTD3;Q9P2X8;Q9GZL8;Q86V97;Q969X6;P02728;Q60826;Q9BTE6;Q7Z7  
94;Q86U38;Q9UID3;P10073;Q9H8M2;Q9NZM5;Q96A33;Q92917;Q5H9L4;Q24JP5;A3KN83;Q8NBR6;Q9H0  
A0;Q8N6L1;Q9UKJ5;Q9BVC6;Q15155;Q9ULX6;P43360;P82664;O15453;O60290;Q5TEC3;O00193;P563  
78;Q5T7W7;Q9BY42;Q02083;A8MXV4;Q9BUW7;P13985;Q92564;Q9P0M2;P43359;Q92545;Q9Y675;Q96I  
76;Q9H171;Q6GMV2;Q13166;Q9NSB4;Q9Y5R5;P52746;Q93052;Q9NPI8;O75564;Q96A73;P47944;Q63H  
K3;Q9BZE9;Q8N5J2;Q99932;O14715;Q9BZD3;Q9BYS1;Q70EK8;Q04118;Q14264;Q8NE00;Q12980;Q018  
04;A2RTX5;Q96N20;Q969T9;Q16891;Q4LE39;O95153;Q60287;A6NNW6;Q9NPC6;Q15059;Q15527;Q6NT  
E8;Q96CP2;Q9UK11;Q9BQ65;P81408;Q9Y6Z2;Q9NV29;Q9BZV1;Q8N0V3;Q93900;Q10571;P18615;Q9UI  
G4;Q96G27;Q86YL5;Q6P2E9;Q96NG5;Q9H0C3;Q9UBW7;Q9Y4H4;O60678;Q8IVB5;Q9NR05;Q9HCI5;Q3SY  
A9;Q03252;Q9P0V3;O94903;P58511;Q9BTE7;Q8IUG1;Q9HCM9;Q9H5X1;Q9Y6Z5;Q8NB25;Q69YN2;O145  
13;Q9BXM8;Q99618;O95671;Q9Y592;Q5SRH9;Q92797;Q9Y421;Q8IZ73;Q9UJ55;Q6PI98;P55081;Q162  
04;P0C7X2;Q9NLD3;Q9ULD5;Q9UBL0;Q9NRL3;Q9H9E1;Q92670;Q8WVZ9;Q15651;Q9BQE9;Q9Y6I8;O151  
17;Q9P0I2;Q9HAU0;Q9H790;Q8IUX1;Q9H7Z3;Q9H2C0;Q14657;O75690;Q14DG7;P30408;P57055;Q130  
66;P82650;Q9BXF6;Q5T6V5;Q9BVG4;Q9UEE9;Q9Y6Z4;Q9NQA3;Q9H2W6;Q53FP2;Q8IYQ7;O14530;Q9BY  
I3;P55808;P84101;O60829;Q9H1B7;O43765;Q9NRY5;Q96J86;O95177;Q9HC47;Q9UKJ3;Q8N2G8;Q9NY  
87;Q9NYP8;P53370;Q9Y2Q9;Q8WV07;Q9P2X3;Q9NYP3;Q8WWM7;O76013;Q15847;Q9Y4X0;O43583;Q5JT  
J3;Q14153;Q8N1D0;Q9Y5U8;Q2TAL8;Q9Y471;Q9UJY1;Q8TCU4;O96002;Q5C9Z4;Q68D10;Q9NYP9;Q9GZ  
P8;Q9P2M7;P98169;P59022;Q9P0W5;Q8WVK2;Q8N3J9;Q9NUM4;A4D263;Q9H9J2;Q9UKR5;Q9GZW5;P236  
10;Q9H3K2;P43358;O14512;Q9H0A9;P49750;P30039;Q9BZF9;Q9BTY7;Q07627;Q9UJJ7;P10163;Q5T0  
11;Q9UII5;Q9C0H6;P59020;Q4V328;Q9NZV5;Q96AN5;Q96B26;Q9H5F2;Q9HD33;Q9HBU9;P41162;Q8WX  
X7;O14972;Q9NQC8;P53672;A5PL33;Q6NVU6;Q5SRD1;Q00765;O75638;Q9Y2P8;P49754;Q9Y4K1;Q0PN  
E2;P58107;P98182;Q9H478;Q9BPZ7;Q96AQ2;P57060;Q8NFP0;P56555;Q9NYK5;Q15935;Q9NR77;Q8IY  
X8;O14879;Q53S33;Q9H6K1;O14523;P10075;O95625;O15234;Q06250;P04280;Q9NQR4;Q9Y3S2;Q9Y5  
M1;Q96EL2;Q9BZW4;Q04727;Q8IXM6;P02729;Q99619;Q9NWW4;Q9Y608;P50221;Q14019;O14524;Q2M3  
D2;Q96NJ6;Q9NPA0;Q9BYG8;Q13296;Q9NUG4;Q53EQ6;Q9H322;Q5T280;Q86TL2;P43362}
- 25651 Pathogen[ P03383] interacts with 203 human  
partners: {O14879;O76087;P43359;Q15935;Q8N5J2;Q9H7Z3;O15234;P84101;Q63HK3;Q8NBR6;Q9BZ  
E7;O95625;Q96EL2;Q9Y6Z5;Q9BYG8;A6NNW6;Q9GZW5;Q9Y2P8;Q9NSB4;Q9Y3C0;O60287;P82664;Q131  
66;Q96M91;P53370;Q15937;P02728;Q96G27;Q9Y5R5;Q9Y675;Q9GZN8;Q04727;Q92670;Q3SYA9;Q9H6  
Y2;Q9BPZ7;Q96BZ8;Q9BZL1;Q96A73;O60290;Q9H2W6;Q96GG9;Q8N0V3;Q9BQ65;O14972;Q9BZF9;Q5SR  
H9;A3KN83;Q5H9L4;Q8N3J9;O95177;Q92797;Q9NYP9;Q6PNE2;Q9BZV1;Q969T9;Q9ULD5;Q9BZE9;Q8WW  
M7;O00193;Q06250;Q9NZM5;Q96N20;Q9GZL8;O75638;Q60826;Q9NWW4;Q9Y592;P0C7X2;Q156  
51;P49754;Q15847;Q7RTU5;Q969X6;O15117;Q6PI98;Q9BXM8;P41162;Q9BTY7;Q4V328;P49750;Q9UK  
11;Q96002;Q99618;Q9UKJ3;P13985;Q9UBW7;Q9Y6Z2;O14530;P52746;P43360;Q9BTE6;Q9H0A9;Q14C  
87;Q9GZP8;Q9BVC6;Q9Y2Q9;Q9Y4K1;Q53EQ6;Q96FN9;Q8WVZ9;Q5JTJ3;Q9BQE9;Q7Z794;Q13066;Q9BX  
F6;Q9H171;P53672;P43358;Q9Y5M1;Q9H322;Q9BUW7;Q9HD33;A2RTX5;P55145;A5PL33;Q14657;Q9HC  
M9;Q9NY87;Q9P2M7;Q86V97;Q68D10;O14513;Q9NR77;Q07627;Q2TAL8;P10073;Q9BVG4;Q9NRY5;O154  
53;Q9P0W5;Q96B26;Q9H0U9;Q12980;Q9Y4H4;Q5T7W7;O60829;Q9NQR4;Q8WVK2;Q9ULX6;Q14264;Q9UK  
J5;Q9HCI5;Q4LE39;O43765;Q5T280;Q14153;Q9NRL3;A4D263;Q5TEC3;Q9NYP3;Q15059;P56555;Q9BV  
C5;Q96NJ6;Q15527;O95153;Q03252;Q9P0V3;Q9H9J2;Q9UII5;P82650;O43583;O95671;Q53S33;Q9UJ  
Y1;P50221;Q9H1B7;Q70EK8;Q8NFP0;O14512;P23610;Q9NPI8;Q9BY42;Q9BYS1;Q9NYP8;O15225;Q9BT  
E7;Q9Y4P9;Q2M3D2;Q9Y421;Q9NPI8;Q8WXX7;Q9Y608;O75564;P59022;Q92917;Q8IUG1;Q9H0A0;P570  
60;Q9UBL0;P18615;P98182;Q5T6V5;Q99619;P57055;Q96NG5;Q5C9Z4;O76013;Q8WV07;Q6P2E9;Q9H5  
F2}
- 25652 Pathogen[ P03410] interacts with 324 human  
partners: {P30039;O60287;Q2M3D2;P49750;Q0PNE2;Q9BVC5;Q9Y2Q9;Q92917;Q5SRD1;Q9HC47;Q9NZ  
M5;P47944;Q9GZP8;Q8IZ73;Q9H6K1;P10768;Q9BZE9;Q92564;O75690;Q9H0C3;Q9UBL0;Q9HD33;A4D2  
63;Q9Y6Z5;Q8NEB7;Q9BTE7;Q9Y3C0;Q9Y675;O15255;O75638;Q8WUX2;Q13296;P59022;Q3SYA9;Q9C0

H6;O15234;Q14C87;Q9BZL1;Q8WXX7;Q8N5J2;Q9NRL3;Q9HCM9;Q969T9;Q9BTE6;P18615;P41162;Q9H0  
U9;Q6PI98;Q8N6L1;P98169;Q6PJE2;Q9BVC6;Q9NPA0;P02729;O96002;Q96M91;Q9BQE9;Q99618;Q9Y4  
P9;Q02083;O76087;Q9GZL8;P98182;Q86TL2;Q96CP2;Q8NFP0;Q15527;Q9UJ55;P56378;Q92670;Q9BZ  
D3;Q4L180;Q9BUW7;Q8N7X4;Q9UII5;Q14264;Q8WV07;P10073;Q10571;Q69YN2;Q9H0A0;A3KN83;Q96A  
33;P50221;Q14019;Q14153;Q8N3J9;Q9BVG4;Q9P0V3;Q5T6V5;Q9BZP3;Q9HAU0;Q9BZE7;Q9BPZ7;P570  
55;P97060;Q9BY42;Q8WVZ9;Q53EQ6;P58107;P13985;Q9UK11;Q92545;P23610;Q5C9Z4;Q14657;Q9Y  
I3;Q9NRY5;Q9NYP9;Q9H5X1;Q15847;Q9H478;P43359;Q9P2X8;P82650;P58511;Q9BUV8;Q8TCU4;Q9NY  
P8;Q86V97;Q9UEE9;Q7Z794;O43583;Q96J86;Q96AN5;O15225;Q15651;Q12980;Q24JP5;O14530;Q9BT  
D3;Q9UJY1;Q9NYK5;Q6GMV2;Q15059;O14972;Q86X76;Q14DG7;Q8WWM7;Q5JTJ3;O00193;Q9NSB4;Q9H3  
22;Q4LE39;Q8IYX8;Q9H9J2;Q9Y4X0;Q9H171;P02812;P52746;Q9NPC6;O60826;Q8WU76;Q5TEC3;Q9UJ  
J7;Q9BZV1;P81408;P82664;Q9H8M2;Q9Y592;Q9RFH5;Q9Y5M1;Q9ULD5;Q5SRH9;Q9H790;Q9Y4H4;Q5T7  
W7;Q5H9L4;Q9Y6Z4;Q9P0M2;A5PL33;Q93052;O14715;Q9NQR4;Q96B26;Q99619;Q8WVK2;O14523;Q6P2  
E9;Q9Y608;Q68D10;Q92797;Q96G27;P43362;Q5T280;Q9BXM8;P53370;Q9Y3S2;Q9NV29;Q9NPI8;Q032  
52;O14513;Q9NWV4;Q96BZ8;Q9Y2J2;P56555;Q9UIG4;Q9P2X3;Q9BXF6;Q9ULX6;O43765;Q06250;Q9Y6  
I8;Q8N2G8;Q04727;Q9UKJ5;Q13066;P02728;Q9H1B7;A8MXV4;P84101;Q9P0W5;Q9NY87;P43365;P497  
54;P87889;Q9Y5U8;Q8N3T6;Q9H7Z3;Q00765;O76013;Q9Y334;Q9Y4K1;O95625;Q96CN7;P09565;Q9NY  
P3;O15117;Q96EL2;Q70EK8;Q7Z3D6;Q9BTY7;Q9Y6Z2;Q9BYG8;Q9BZF9;Q9HCI5;Q9H0A9;Q9Y471;P570  
88;O95671;Q8NBR6;Q99932;Q8IUG1;Q04118;Q9GZN8;Q9H2C0;Q96NG5;P10163;Q07627;Q16204;Q7RT  
U5;Q9H2W6;P43360;Q9UBW7;Q9P2M7;Q9NUG4;Q8N1D0;O15442;O14512;O15453;Q63HK3;Q9H3K2;Q159  
37;Q96AQ2;Q9NQC8;Q6NVU6;Q8NE00;Q9P0I2;P43358;Q9BQ65;O75564;O95153;P55808;O14524;Q168  
91;O60829;Q96N20;O14879;Q86YL5;Q9Y2P8;Q96JP2;Q9BYS1;A2RTX5;Q4V328;Q2TAL8;Q96GG9;Q9H5  
F2;Q8N0V3;Q8IXU6;Q9GZU0;P10075;Q13166;Q96I76;P0C7X2;A6NNW6;Q8IXM6;Q9NR77;Q9BZW4;Q8WW  
59;Q9UKJ3;Q86U38;Q9NQA3;Q9Y421;O94903;Q969X6;O95177;P04280;Q9UID3;Q96A73;Q9H9E1;O602  
90;Q9GZW5;O15194;Q8NB25;Q9H6Y2;P53672;Q96FN9;Q9NRQ5;Q9HBU9;Q53S33;Q96NJ6;O43900;Q9NZ  
V5;Q15935}

25653

Pathogen[ P14075] interacts with 250 human

partners: {Q04727;Q92797;Q9P0V3;Q6P2E9;Q92545;Q15059;O14530;P84101;O15234;O75564;Q062  
50;Q96EL2;P59022;Q99932;Q9NQR4;Q9Y2J2;Q9BVC6;Q14264;Q9NYK5;Q8WV07;Q9UKJ3;Q9H322;Q9NR  
Q5;Q9P0W5;Q9Y5R5;Q9H2C0;Q9NPC6;P0C7X2;Q8N0V3;Q9H0A9;Q9Y2Q9;Q5T6V5;P18615;Q96NJ6;Q96J  
86;Q07627;Q9BVC5;Q4LE39;Q13166;Q9BZD3;Q9NYP3;Q13296;Q96BZ8;Q99619;Q10571;Q9GZW5;Q9GZ  
P8;Q9P2X8;P47944;Q15937;Q9BY42;Q02083;Q96002;Q96Z5;P53672;O76087;Q263D2;Q14C87;Q68D  
10;Q9NSB4;Q9Y6Z4;O95177;P13985;Q96M91;Q8N6L1;Q9NPI8;Q5JTJ3;Q14153;Q9NYP8;Q969T9;Q9UK  
11;Q92917;O95625;Q9HD33;P82650;P49750;O15117;Q9Y4K1;Q53EQ6;Q96FN9;Q5SRH9;O15453;Q9BV  
G4;P04280;P02728;Q9H2W6;Q9P2X3;Q9UJY1;A8MXV4;A3KN83;Q7RTU5;Q12980;Q9H9J2;Q86TL2;Q9H6  
Y2;O94903;Q4V328;P43358;Q9H0A0;Q96AQ2;O75638;P43359;Q9BYI3;Q9H478;Q70EK8;Q86V97;Q9HC  
M9;Q9ULD5;O15225;O43583;P41162;Q15847;Q9H6K1;A5PL33;Q3SYA9;Q9BPZ7;Q5TEC3;Q9NRY5;P563  
78;Q9BTE6;Q92670;Q9Y2P8;O75556;P49754;Q96GG9;O60287;Q2TAL8;O76013;P52746;Q9NRL3;P502  
21;Q13066;Q6PI98;Q8N3J9;P82664;Q9BQ65;Q9BZP3;Q9ULX6;Q9BUW7;O14523;A2RTX5;Q9H7Z3;Q9BY  
G8;Q9Y421;O95671;Q9NYP9;Q9H5F2;Q9BTD3;Q9Y608;Q9NZM5;Q5T7W7;Q14657;A6NNW6;Q9BZL1;P570  
60;O15255;Q8NDX9;Q9UJY1;P56555;Q8IXM6;Q969X6;Q9NR77;Q9Y4P9;O60290;Q9Y3S2;P57055;Q8WV  
Z9;O15442;Q9NWV4;Q96B26;Q9UIG4;Q9Y5M1;Q9H0U9;Q9GZL8;Q8NBR6;Q15935;Q9NV29;Q5H9L4;P533  
70;O60826;Q6NVU6;O14879;Q8WWM7;Q9Y3C0;P02812;Q96A73;Q9BZE7;Q9UEE9;A4D263;Q9BXF6;P981  
82;P58511;Q5C9Z4;Q96N20;Q9BTY7;Q8IUG1;Q8N5J2;Q9BZF9;Q8NE00;Q7Z794;Q8WVK2;Q9BQE9;Q9Y6  
Z2;Q8NFP0;Q9BZV1;Q9P2M7;Q99618;O14512;P23610;O95153;Q9BYS1;Q96NG5;Q9Y592;Q9UII5;Q8WX  
X7;Q9H1B7;Q9BTE7;Q9BXM8;P43360;Q96G27;Q9UKJ5;Q9GZU0;Q63HK3;O14972;Q9UBW7;Q53S33;Q9Y4  
H4;O60829;P10073;Q9H171;Q5T280;O14513;Q9UBL0;Q0PNE2;P09565;Q15651;P81408;Q15527;Q9HC  
I5;O00193;Q9GZN8;Q03252;O43765;O75690;Q9BZE9;Q9NY87;P55808;Q6GMV2;Q9Y675;Q9Y5U8}

25654

Pathogen[ P0C206] interacts with 296 human

partners: {Q9UBW7;Q4L180;Q9NY87;Q9Y3S2;Q96A33;O60829;Q9NQC8;Q9Y5M1;Q9NPI8;Q8N0V3;Q154  
35;Q96002;Q95081;Q2M3D2;Q8NB25;Q14657;Q9GZW5;Q14019;Q9Y4H4;Q15270;Q63HK3;Q8IXM6;Q9H7  
90;P98182;O14530;A8MXV4;Q9GZL8;Q96EL2;Q9NZM5;Q07627;Q86U38;P43358;Q9UII5;P57088;Q9Y5  
U8;Q9BXF6;Q9BVC5;Q9P2X8;O14524;Q9HAU0;Q9H5F2;Q9UJ55;P57060;Q8N2G8;O75638;Q8TCU4;Q9BQ  
65;Q9BTE7;P49754;Q8NBR6;Q9C0H6;O60826;Q99619;Q9UEE9;Q8IWB7;Q6PI98;Q8NFP0;P50221;A2RT  
X5;Q9Y4K1;Q8WXX7;Q9BZP3;O00193;Q9Y6Z5;Q96A73;O14879;Q99618;Q3SYA9;P10073;Q9NYP9;Q53E  
Q6;Q6UW56;O75690;Q04727;Q92670;Q9H9E1;Q9BZE7;Q9H6Y2;P09565;Q96GG9;Q9Y6Z4;P56555;P433  
60;Q7Z794;Q13066;Q9UKJ5;O95671;Q96G27;Q9UBL0;Q9BQE9;Q16891;Q9NRY5;Q9Y592;Q5JTJ3;A6NN  
W6;P10768;Q86YL5;Q9ULX6;Q96BZ8;Q96B26;P43359;Q8IZ73;Q9H6K1;P55145;P57055;Q03252;Q8N3  
J9;Q9BZE9;Q7Z3D6;P02728;O95153;Q9UKJ3;Q5SRD1;P10075;Q9NR77;Q9Y4X0;Q9HD33;Q9UJY1;A5PL  
33;Q9Y421;Q9Y675;A4D263;P23610;Q9H8M2;Q9P0W5;Q9UJY1;Q9Y608;Q9H3K2;Q9H0A9;P43362;Q9Y3  
C0;Q9UK11;Q9NRL3;Q92797;O76013;Q9BTY7;P82664;Q96N20;Q92784;Q13166;Q8WV07;Q15651;P411  
62;Q5T280;Q5T7W7;Q9Y4P9;Q8WW59;Q2TAL8;Q13296;O76087;Q9H4I8;Q92917;Q9BZR9;Q9BUV8;O149  
72;O75564;Q12980;Q969X6;Q9BZV1;Q6RFH5;Q9H322;Q9BZL1;Q92564;P18615;Q9P0M2;Q9BVC6;O439  
00;Q96BR9;Q6P2E9;Q7RTU5;Q8WVZ9;Q9H171;Q9BTE6;Q5TEC3;P53370;Q96JP2;Q4LE39;Q8IYX8;Q9Y5  
R5;Q16204;Q9NQR4;O15225;Q0PNE2;P59022;Q9H7Z3;P30039;Q8N1D0;Q8WU76;Q5H9L4;Q02083;Q5T6  
V5;O15234;O94903;Q5C9Z4;Q9BPZ7;P49750;Q9VWZ2;Q9Y2P8;Q15937;Q9NYP8;Q10H09;O602  
87;Q9ULD5;Q9H2W6;Q14264;Q9BUW7;Q9BVG4;Q9UID3;Q9BYS1;Q8N5J2;Q96M91;P82650;Q9P0V3;Q9HC  
M9;Q9BY42;P53672;Q9Y2Q9;Q96NJ6;P0C7X2;P98169;Q9BYG8;O60678;Q15059;Q9GZN8;Q96FN9;Q9P2  
M7;O95625;Q00765;Q4V328;O15255;Q8WUX2;Q86VF2;Q15847;Q9H9J2;P84101;Q53S33;O15194;Q999  
32;P52746;Q9NSB4;O43583;Q5SRH9;Q9NYK5;O14512;Q9BZF9;Q969T9;Q8TAU0;Q6250;P17889;Q8WW  
M7;O15117;O14513;Q9P2X3;Q9H1B7;O95177;Q9Y6I8;Q9NPC6;A3KN83;Q9BXM8;Q96CP2;Q14153;Q159  
35;Q14DG7;O43765;Q9HCI5;Q8WVK2;Q14C87;Q68D10;O43763;O15442;Q9BYI3;Q9NYP3;Q9Y6Z2;Q930  
52;Q9H5X1;Q9H2C0;Q9H0A0;Q9BZD3;P13985;Q9Y2J2;Q8IUG1;Q9NWV4;Q9HCK0;Q96NG5;Q10571;O602  
90;Q6GMV2;Q86X76;P47944;Q9GZP8;Q86V97;Q15527;Q70EK8;O14715;Q01804}

25655

Pathogen[ P03363] interacts with 239 human

partners: {Q1KMD3;Q96B26;P49754;P82650;Q9Y3C0;Q9HAU0;O60829;Q9UID3;Q9H7Z3;P43360;Q9Y5  
92;O75638;Q92917;Q9NYP9;Q14264;Q9NYP3;Q9BZR9;P82664;Q96EL2;Q96GG9;P10265;Q5C9Z4;Q8WX

X7;Q8N5J2;Q8NOV3;Q9P0V3;Q969X6;P98169;A2RTX5;Q02083;Q9H8M2;Q9Y4H4;Q9NY87;Q9H5F2;Q9GZ  
P8;Q8N3J9;Q96NJ6;Q86VF2;Q14657;P53672;P02728;Q9GZL8;P23610;O43763;Q969T9;Q6UW56;Q6P2  
E9;Q96JP2;Q8TE68;P59022;Q9BYG8;Q9Y2Q9;Q53EQ6;Q9Y2P8;P10768;Q10571;Q9Y5M1;Q14C87;Q9UJ  
Y1;Q2M3D2;Q95671;Q8IVW6;Q4LE39;Q8N2G8;Q95153;Q8WU76;Q9H9J2;Q9UK11;P57060;Q9BXM8;Q9Y4  
P9;Q9HCK0;Q5VWZ2;Q9H322;Q96N20;O00193;Q9NWW4;O43765;Q9BQE9;Q04727;O14879;O94875;Q9GZ  
W5;Q9Y6I7;Q93052;Q9NR77;Q9BTE7;Q9HD33;Q92797;P18615;Q9HCS5;Q14019;Q9H0M2;P50221;Q154  
35;A4D263;Q9Y608;Q9BZF9;Q03252;O60287;P43358;Q15937;O15117;Q16204;Q9H0U9;Q06250;Q3SY  
A9;A3KN83;A6NNW6;Q9P0W5;Q4L180;Q9H4I8;P84101;Q68D10;O76013;Q9BZD3;Q9ULD5;O96002;Q9BZ  
P3;Q96BZ8;Q8WW59;Q9BTE6;O15453;O60826;Q9Y5R5;Q9H2W6;Q9BZV1;Q63HK3;Q15270;Q15847;Q9H9  
E1;Q9Y4K1;P49750;Q9Y6Z5;Q99619;O75564;Q9H2Z4;Q8NBR6;P13985;Q96PQ7;Q96I76;P57055;Q9BZ  
E9;Q9HB31;Q9BQ65;Q8WVZ9;Q9BTY7;Q99618;Q9C0H6;Q15651;Q9H1B7;O14530;Q86V97;Q7Z7M0;Q9NR  
L3;Q9BXF6;Q6FIF0;Q96M91;Q0PNE2;Q5T280;Q96NG5;Q9BUW7;Q7RTU5;Q9H171;Q9BYS1;Q92670;Q9UB  
W7;P98182;Q9UBL0;Q9HCI5;Q8WV07;Q9HCM9;O43583;P41162;Q9UKJ5;Q9H0A9;Q8IYX8;O43900;Q96G  
27;Q9H3K2;Q9BY42;Q9BZL1;Q5T7W7;Q15059;Q8WVK2;Q9Y6Z2;O14972;Q2TAL8;Q9NPI8;Q03828;Q5TE  
C3;O14512;Q9UKJ3;Q96FN9;Q8WXE0;Q8TAU0;Q9H6Y2;O60290;Q9H2C0;Q9NRY5;P0C7X2;Q15935;Q9NP  
C6;O15225;P43359;Q12980;Q96BR9;O95625;Q7Z794;Q00765;Q9Y675;Q9BVG4;Q15527;Q5H9L4;P565  
55;Q9BZE7;Q9P2M7;Q6RFH5;Q96A73;Q5SRH9;Q9BVC5;P52746;Q9ULX6;Q9UII5;Q9Y2J2;Q9NSB4;Q141  
53;Q9NQR4;P58107;Q9NQC8;A5PL33;Q9NZM5;P10073;Q9Y421;Q13166;Q13401;Q6PI98;O15234;P533  
70}

25656 [Cluster 2333]GO:0048260+P biological\_process [name] positive regulation of  
receptor-mediated endocytosis [def] "Any process that activates or increases the  
frequency, rate or extent of receptor mediated endocytosis, the uptake of external  
materials by cells, utilizing receptors to ensure specificity of transport." [GOC  
25657 Pathogen[ Q2Q067] interacts with 3 human partners:{O00291;P61978;P22681}  
25658 Pathogen[ P0C214] interacts with 5 human  
partners:{P22681;P05121;Q9BQI5;Q96G01;O00291}  
25659 Pathogen[ P03346] interacts with 5 human  
partners:{Q96G01;P61978;O00291;P22681;Q9BQI5}  
25660 Pathogen[ Q85601] interacts with 5 human  
partners:{P61978;P22681;Q96G01;P05121;O00291}  
25661 Pathogen[ P14079] interacts with 4 human partners:{O00291;Q9BQI5;Q96G01;P61978}  
25662 Pathogen[ P03383] interacts with 3 human partners:{P61978;O00291;Q9BQI5}  
25663 Pathogen[ P03410] interacts with 5 human  
partners:{P05121;P61978;O00291;Q96G01;Q9BQI5}  
25664 Pathogen[ P14075] interacts with 3 human partners:{Q9BQI5;O00291;P61978}  
25665 Pathogen[ P0C206] interacts with 6 human  
partners:{O00291;P61978;P22681;Q9BQI5;P05121;Q96G01}  
25666 Pathogen[ P03363] interacts with 4 human partners:{P22681;P61978;Q9BQI5;O00291}  
25667 [Cluster 2334]GO:0016558+P biological\_process [name] protein import into peroxisome  
matrix [def] "The import of proteins into the peroxisomal matrix. A peroxisome  
targeting signal (PTS) binds to a soluble receptor protein in the cytosol, and the  
resulting complex then binds to a receptor protein in the peroxisome membrane and is  
imported." [ISBN  
25668 Pathogen[ Q2Q067] interacts with 1 human partners:{O75381}  
25669 Pathogen[ P0C214] interacts with 1 human partners:{O75381}  
25670 Pathogen[ P03346] interacts with 3 human partners:{O75381;P50542;O43933}  
25671 Pathogen[ Q85601] interacts with 2 human partners:{O43933;O75381}  
25672 Pathogen[ P14079] interacts with 4 human partners:{Q9Y5Y5;P50542;Q7Z412;O75381}  
25673 Pathogen[ P03383] interacts with 1 human partners:{O75381}  
25674 Pathogen[ P03410] interacts with 3 human partners:{Q9Y5Y5;O75381;P50542}  
25675 Pathogen[ P14075] interacts with 1 human partners:{O75381}  
25676 Pathogen[ P0C206] interacts with 3 human partners:{O43933;O75381;P50542}  
25677 Pathogen[ P03363] interacts with 2 human partners:{O43933;O75381}  
25678 [Cluster 2335]GO:0055014+P biological\_process [name] atrial cardiac muscle cell  
development [def] "The process whose specific outcome is the progression of an atrial  
cardiac muscle cell over time, from its formation to the mature state. Cardiac muscle  
cells are striated muscle cells that are responsible for heart contraction. The atrium  
is the part of the heart that receives blood into the organ." [GOC  
25679 Pathogen[ Q2Q067] interacts with 1 human partners:{Q14192}  
25680 Pathogen[ P0C214] interacts with 1 human partners:{Q14192}  
25681 Pathogen[ P03346] interacts with 1 human partners:{Q14192}  
25682 Pathogen[ Q85601] interacts with 1 human partners:{Q14192}  
25683 Pathogen[ P14079] interacts with 1 human partners:{Q14192}  
25684 Pathogen[ P03383] interacts with 1 human partners:{Q14192}  
25685 Pathogen[ P03410] interacts with 1 human partners:{Q14192}  
25686 Pathogen[ P14075] interacts with 1 human partners:{Q14192}  
25687 Pathogen[ P0C206] interacts with 1 human partners:{Q14192}  
25688 Pathogen[ P03363] interacts with 1 human partners:{Q14192}  
25689 [Cluster 2336]GO:0030324+P biological\_process [name] lung development [def] "The  
process whose specific outcome is the progression of the lung over time, from its  
formation to the mature structure. In all air-breathing vertebrates the lungs are  
developed from the ventral wall of the oesophagus as a pouch which divides into two  
sacs. In amphibians and many reptiles the lungs retain very nearly this primitive  
sac-like character, but in the higher forms the connection with the esophagus becomes  
elongated into the windpipe and the inner walls of the sacs become more and more  
divided, until, in the mammals, the air spaces become minutely divided into tubes ending

in small air cells, in the walls of which the blood circulates in a fine network of capillaries. In mammals the lungs are more or less divided into lobes, and each lung occupies a separate cavity in the thorax." [GOC

25690 Pathogen[ Q2Q067] interacts with 18 human partners: {P04198;Q63HK5;Q8WW38;Q9UNSL1;P08151;Q53FT3;P39880;P36956;Q02447;P08047;P20719;P29474;P62136;Q15796;Q4LEZ3;Q99814;P49715;Q15750}

25691 Pathogen[ P0C214] interacts with 17 human partners: {P29474;O95633;P46379;Q4LEZ3;Q63HK5;Q53FT3;Q8WW38;Q9UNSL1;P62136;Q15796;P39880;Q15750;Q02447;Q99814;P08151;P08047;P04198}

25692 Pathogen[ P03346] interacts with 23 human partners: {P62136;O15522;P29474;P36956;Q8WW38;Q15796;Q9UNSL1;Q63HK5;P49715;P20719;P08047;Q4LEZ3;P46379;Q99814;Q15750;Q14190;P04198;Q99593;P39880;Q02447;O95633;Q53FT3;P08151}

25693 Pathogen[ Q85601] interacts with 18 human partners: {P08151;Q53FT3;Q15750;Q8WW38;P46379;Q99814;P08047;P62136;P36956;Q02447;P29474;P49715;Q4LEZ3;P04198;P39880;Q63HK5;Q15796;Q9UNSL1}

25694 Pathogen[ P14079] interacts with 16 human partners: {P08151;Q99814;O43597;P39880;P62136;Q02447;Q15750;Q53FT3;P49715;Q4LEZ3;Q13510;P04198;Q63HK5;Q9UNSL1;P36956;Q8WW38}

25695 Pathogen[ P03383] interacts with 12 human partners: {Q9UNSL1;P08047;P29474;Q8WW38;P62136;Q02447;P04198;P39880;Q15796;Q53FT3;Q4LEZ3;Q15750}

25696 Pathogen[ P03410] interacts with 17 human partners: {P36956;O43597;Q02447;Q99814;Q15750;Q4LEZ3;P62136;Q53FT3;Q8WW38;Q13510;P29474;P39880;Q9UNSL1;P08047;Q63HK5;Q15796;P04198}

25697 Pathogen[ P14075] interacts with 13 human partners: {P29474;Q53FT3;Q15750;Q13510;Q8WW38;P04198;Q15796;P39880;P62136;Q4LEZ3;Q02447;Q9UNSL1;P08047}

25698 Pathogen[ P0C206] interacts with 21 human partners: {Q9UNSL1;O95633;Q8WW38;P49715;P36956;Q15796;Q63HK5;P08047;Q02447;P04198;O43597;P29474;Q4LEZ3;Q15750;Q99814;P39880;P20719;P08151;P46379;Q53FT3;P62136}

25699 Pathogen[ P03363] interacts with 18 human partners: {Q53FT3;P46379;P29474;P62136;P08151;Q02447;P20719;P04198;Q15750;Q9UNSL1;Q15796;Q99814;Q4LEZ3;Q63HK5;Q8WW38;P08047;O15522;P39880}

25700 [Cluster 2337]GO:0060379+P biological\_process [name] cardiac muscle cell myoblast differentiation [def] "The process in which a relatively unspecialized cell acquires specialized features of a cardiac myoblast. A cardiac myoblast is a precursor cell that has been committed to a cardiac muscle cell fate but retains the ability to divide and proliferate throughout life." [GOC

25701 Pathogen[ Q2Q067] interacts with 1 human partners: {Q13127}

25702 Pathogen[ P0C214] interacts with 1 human partners: {Q13127}

25703 Pathogen[ P03346] interacts with 1 human partners: {Q13127}

25704 Pathogen[ Q85601] interacts with 1 human partners: {Q13127}

25705 Pathogen[ P14079] interacts with 1 human partners: {Q13127}

25706 Pathogen[ P03383] interacts with 1 human partners: {Q13127}

25707 Pathogen[ P03410] interacts with 1 human partners: {Q13127}

25708 Pathogen[ P14075] interacts with 1 human partners: {Q13127}

25709 Pathogen[ P0C206] interacts with 1 human partners: {Q13127}

25710 Pathogen[ P03363] interacts with 1 human partners: {Q13127}

25711 [Cluster 2338]GO:0070932+P biological\_process [name] histone H3 deacetylation [def] "The modification of histone H3 by the removal of one or more acetyl groups." [GOC

25712 Pathogen[ Q2Q067] interacts with 13 human partners: {P56524;Q9BY41;Q9UKV0;Q13547;O15379;Q9UQL6;Q969S8;Q96DB2;Q92769;P28324;Q9H4L7;Q8WUI4;Q9NRC8}

25713 Pathogen[ P0C214] interacts with 13 human partners: {Q13547;Q969S8;Q96DB2;P56524;Q9H4L7;Q92769;P28324;Q9UKV0;O15379;Q9NRC8;Q8WUI4;Q9UQL6;Q9BY41}

25714 Pathogen[ P03346] interacts with 13 human partners: {Q969S8;P28324;Q96DB2;O15379;P56524;Q92769;Q13547;Q9BY41;Q8WUI4;Q9UKV0;Q9NRC8;Q9UQL6;Q9H4L7}

25715 Pathogen[ Q85601] interacts with 13 human partners: {Q969S8;Q9NRC8;Q9UKV0;Q96DB2;Q9BY41;Q9UQL6;Q92769;Q9H4L7;P56524;O15379;Q13547;Q8WUI4;P28324}

25716 Pathogen[ P14079] interacts with 11 human partners: {Q9UQL6;O15379;Q96DB2;Q9H4L7;Q969S8;Q8WUI4;Q9UKV0;Q92769;Q9BY41;P56524;Q9NRC8}

25717 Pathogen[ P03383] interacts with 11 human partners: {Q9UQL6;P28324;Q92769;O15379;Q13547;Q9BY41;Q9UKV0;P56524;Q8WUI4;Q969S8;Q9NRC8}

25718 Pathogen[ P03410] interacts with 13 human partners: {Q9UKV0;Q9H4L7;Q9BY41;P28324;Q8WUI4;Q9UQL6;Q969S8;Q92769;O15379;P56524;Q13547;Q9NRC8;Q96DB2}

25719 Pathogen[ P14075] interacts with 11 human partners: {Q9BY41;Q969S8;P56524;Q9UKV0;Q13547;P28324;Q92769;O15379;Q9NRC8;Q9UQL6;Q8WUI4}

25720 Pathogen[ P0C206] interacts with 13 human

partners:{Q9H4L7;Q92769;Q96DB2;Q9UKV0;Q13547;O15379;Q8WUI4;P28324;Q9NRC8;Q9BY41;P565  
24;Q969S8;Q9UQL6}

25721 Pathogen[ P03363] interacts with 10 human  
partners:{Q9BY41;Q9H4L7;O15379;Q969S8;Q9UQL6;Q9UKV0;Q13547;Q8WUI4;Q9NRC8;P28324}

25722 [Cluster 2339]GO:0050810+P biological\_process [name] regulation of steroid  
biosynthetic process [def] "Any process that modulates the frequency, rate or extent  
of the chemical reactions and pathways resulting in the formation of steroids, compounds  
with a 1,2,cyclopentanoperhydrophenanthrene nucleus." [GOC

25723 Pathogen[ Q2Q067] interacts with 1 human partners:{Q15637}

25724 Pathogen[ P0C214] interacts with 1 human partners:{Q15637}

25725 Pathogen[ P03346] interacts with 2 human partners:{Q15637;Q13285}

25726 Pathogen[ Q85601] interacts with 1 human partners:{Q15637}

25727 Pathogen[ P14079] interacts with 1 human partners:{Q15637}

25728 Pathogen[ P03383] interacts with 1 human partners:{Q15637}

25729 Pathogen[ P03410] interacts with 1 human partners:{Q15637}

25730 Pathogen[ P14075] interacts with 1 human partners:{Q15637}

25731 Pathogen[ P0C206] interacts with 1 human partners:{Q15637}

25732 Pathogen[ P03363] interacts with 1 human partners:{Q15637}

25733 [Cluster 2340]GO:0042769+P biological\_process [name] DNA damage response, detection of  
DNA damage [def] "The series of events required to receive a stimulus indicating DNA  
damage has occurred and convert it to a molecular signal." [GOC

25734 Pathogen[ Q2Q067] interacts with 5 human  
partners:{P82933;P82912;Q9BYN8;P09874;P82673}

25735 Pathogen[ P0C214] interacts with 5 human  
partners:{P82912;Q9BYN8;P82673;P82933;P09874}

25736 Pathogen[ P03346] interacts with 6 human  
partners:{Q06945;P82912;P82933;P09874;Q9BYN8;P82673}

25737 Pathogen[ Q85601] interacts with 4 human partners:{P09874;P82912;P82933;Q9BYN8}

25738 Pathogen[ P14079] interacts with 5 human  
partners:{P09874;P82933;P82912;Q9BYN8;P82673}

25739 Pathogen[ P03383] interacts with 4 human partners:{P82912;P82933;Q9BYN8;P09874}

25740 Pathogen[ P03410] interacts with 5 human  
partners:{Q9BYN8;P09874;P82673;P82912;P82933}

25741 Pathogen[ P14075] interacts with 4 human partners:{P82912;Q9BYN8;P82933;P09874}

25742 Pathogen[ P0C206] interacts with 5 human  
partners:{P09874;P82673;Q9BYN8;P82933;P82912}

25743 Pathogen[ P03363] interacts with 4 human partners:{P82912;P82933;P09874;Q9BYN8}

25744 [Cluster 2341]GO:0090307+P biological\_process [name] spindle assembly involved in  
mitosis [def] "The aggregation, arrangement and bonding together of a set of components  
to form the spindle that contributes to the process of mitosis." [GOC

25745 Pathogen[ Q2Q067] interacts with 5 human  
partners:{Q8N0Z3;O96017;O75665;P10244;P61586}

25746 Pathogen[ P0C214] interacts with 5 human  
partners:{P61586;P10244;O96017;O75665;Q8N0Z3}

25747 Pathogen[ P03346] interacts with 5 human  
partners:{P10244;O96017;Q8N0Z3;O75665;P61586}

25748 Pathogen[ Q85601] interacts with 5 human  
partners:{O96017;O75665;P10244;P61586;Q8N0Z3}

25749 Pathogen[ P14079] interacts with 6 human  
partners:{P10244;Q587J8;O15066;P61586;Q8N0Z3;O75665}

25750 Pathogen[ P03383] interacts with 5 human  
partners:{P10244;Q8N0Z3;P61586;O75665;O96017}

25751 Pathogen[ P03410] interacts with 6 human  
partners:{O75665;Q8N0Z3;P10244;P61586;O96017;Q587J8}

25752 Pathogen[ P14075] interacts with 5 human  
partners:{P10244;O96017;P61586;O75665;Q8N0Z3}

25753 Pathogen[ P0C206] interacts with 5 human  
partners:{O96017;P61586;P10244;O75665;Q8N0Z3}

25754 Pathogen[ P03363] interacts with 5 human  
partners:{O96017;P10244;Q8N0Z3;O15066;O75665}

25755 [Cluster 2342]GO:0045744+P biological\_process [name] negative regulation of G-protein  
coupled receptor protein signaling pathway [def] "Any process that stops, prevents, or  
reduces the frequency, rate or extent of G-protein coupled receptor protein signaling  
pathway activity." [GOC

25756 Pathogen[ Q2Q067] interacts with 2 human partners:{P41220;O60291}

25757 Pathogen[ P0C214] interacts with 2 human partners:{P41220;O60291}

25758 Pathogen[ P03346] interacts with 3 human partners:{Q68CZ1;O60291;P41220}

25759 Pathogen[ Q85601] interacts with 2 human partners:{P41220;O60291}

25760 Pathogen[ P14079] interacts with 2 human partners:{Q68CZ1;P41220}

25761 Pathogen[ P03383] interacts with 1 human partners:{P41220}

25762 Pathogen[ P03410] interacts with 3 human partners:{P41220;O60291;Q68CZ1}

25763 Pathogen[ P14075] interacts with 1 human partners:{P41220}

25764 Pathogen[ P0C206] interacts with 2 human partners:{O60291;P41220}

25765 Pathogen[ P03363] interacts with 2 human partners:{O60291;P41220}

25766 [Cluster 2343]GO:0070936+P biological\_process [name] protein K48-linked ubiquitination  
[def] "A protein ubiquitination process in which a polymer of ubiquitin, formed by

linkages between lysine residues at position 48 of the ubiquitin monomers, is added to a protein. K48-linked ubiquitination targets the substrate protein for degradation." [GOC

25767 Pathogen[ Q2Q067] interacts with 25 human  
partners: {Q95376;Q96J02;Q9NS56;P62837;P53804;O60260;P49427;O00762;Q9Y2X8;P60604;P51965;P61077;P63146;P78317;Q5TA31;Q9NPD8;P51668;Q9NTX7;Q96FA3;O76064;Q9NWF9;P49459;Q05086;P62256;Q9Y252}

25768 Pathogen[ P0C214] interacts with 29 human  
partners: {Q05086;Q96J02;O00762;P49427;Q9NS56;Q96FA3;Q9NTX7;P49459;Q969T4;P51965;P78317;Q9NWF9;P61077;P62253;P61086;Q9Y2X8;Q95376;P53804;Q9Y252;Q5TA31;O60260;Q712K3;P62256;P51668;O76064;Q9NPD8;Q96LR5;P63146;P60604}

25769 Pathogen[ P03346] interacts with 25 human  
partners: {Q96J02;O76064;Q9NWF9;O95376;P49427;Q9NTX7;P49459;Q9Y2X8;Q5TA31;P51668;P61077;Q96FA3;Q9NS56;P60604;P51965;P63146;O00762;P62837;Q9NPD8;P78317;O60260;Q05086;P62256;P53804;Q9Y252}

25770 Pathogen[ Q85601] interacts with 29 human  
partners: {Q96J02;P78317;P62253;Q9NS56;P63146;P49427;Q9Y2X8;Q969T4;Q9NWF9;Q9NPD8;Q5TA31;P51668;Q96LR5;P61077;Q96FA3;O76064;P51965;P61086;O00762;Q9NTX7;P49459;O95376;O60260;Q9Y252;P62837;Q05086;P62256;P53804;P60604}

25771 Pathogen[ P14079] interacts with 20 human  
partners: {O60260;P53804;P51965;Q5TA31;Q9NPD8;P60604;P61077;Q96FA3;P62256;P51668;Q9NWF9;P49459;Q9NS56;Q96J02;Q9Y2X8;P49427;P78317;P62837;O00762;P63146}

25772 Pathogen[ P03383] interacts with 21 human  
partners: {P53804;P51965;P49427;Q9Y2X8;O00762;Q9NTX7;P78317;P61077;O60260;P60604;Q5TA31;O95376;P62837;Q9Y252;Q96FA3;P49459;Q9NPD8;P62256;P63146;Q9NWF9;P51668}

25773 Pathogen[ P03410] interacts with 18 human  
partners: {P49427;Q9NWF9;P51965;Q96FA3;P49459;Q5TA31;O60260;P62256;P78317;P63146;Q9Y2X8;P51668;Q9NPD8;O00762;P60604;P53804;P61077;P62837}

25774 Pathogen[ P14075] interacts with 21 human  
partners: {P53804;P60604;Q9NTX7;P62837;P49427;Q9Y252;P49459;P51965;Q9Y2X8;P61077;Q9NPD8;Q9NWF9;O00762;Q96FA3;P78317;O95376;P62256;P63146;Q5TA31;P51668;O60260}

25775 Pathogen[ P0C206] interacts with 30 human  
partners: {Q9Y2X8;Q9NS56;Q9NPD8;P62253;O95376;Q05086;Q96J02;Q9NWF9;Q96LR5;P62837;P53804;P78317;P49427;Q5TA31;Q712K3;P51965;P60604;P49459;O60260;P62256;Q969T4;O00762;Q96FA3;P61077;P61086;Q9NTX7;Q9Y252;O76064;P51668;P63146}

25776 Pathogen[ P03363] interacts with 22 human  
partners: {Q95376;Q9NWF9;Q9Y252;P51965;P60604;P49459;O00762;Q9NTX7;P78317;P63146;P49427;Q05086;Q96FA3;P62256;Q969T4;P51668;Q9NPD8;Q5TA31;P53804;P61077;Q9Y2X8;P62837}

25777 [Cluster 2344]GO:0006261+P biological\_process [name] DNA-dependent DNA replication [def] "A DNA replication process that uses parental DNA as a template for the DNA-dependent DNA polymerases that synthesize the new strands." [GOC

25778 Pathogen[ Q2Q067] interacts with 16 human  
partners: {Q15054;Q86UA6;P27694;P49005;P11388;Q00059;P06746;P15927;P56282;Q9HCU8;Q9NRL2;P54098;Q9UHN1;P35251;O14519;Q9BTE3}

25779 Pathogen[ P0C214] interacts with 16 human  
partners: {Q9NRL2;P06746;P54098;P35251;P49005;Q9HCU8;Q9BTE3;Q00059;P15927;O14519;P11388;Q15054;P27694;Q86UA6;P56282;Q9UHN1}

25780 Pathogen[ P03346] interacts with 16 human  
partners: {Q9HCU8;P54098;P11388;P27694;Q00059;P56282;Q9UHN1;P49005;Q9NRL2;P15927;Q86UA6;P35251;P06746;O14519;Q9BTE3;Q15054}

25781 Pathogen[ Q85601] interacts with 16 human  
partners: {Q9BTE3;P56282;Q86UA6;Q00059;P49005;O14519;Q15054;P27694;P54098;P15927;P35251;P11388;Q9NRL2;Q9HCU8;P06746;Q9UHN1}

25782 Pathogen[ P14079] interacts with 16 human  
partners: {O14519;P11388;Q9NRL2;P49005;Q9HCU8;Q9BTE3;Q15054;Q00059;P56282;P35251;Q86UA6;P06746;P15927;P27694;P54098;Q9UHN1}

25783 Pathogen[ P03383] interacts with 15 human  
partners: {Q86UA6;O14519;Q9UHN1;P06746;Q9HCU8;P27694;Q9BTE3;Q00059;P49005;P56282;P15927;P54098;Q15054;Q9NRL2;P35251}

25784 Pathogen[ P03410] interacts with 16 human  
partners: {Q9BTE3;Q00059;Q86UA6;P06746;P56282;P35251;Q9NRL2;Q15054;P11388;O14519;P49005;P27694;P15927;Q9UHN1;P54098;Q9HCU8}

25785 Pathogen[ P14075] interacts with 15 human  
partners: {Q00059;P54098;Q9NRL2;P06746;P49005;P15927;Q9BTE3;O14519;P35251;Q15054;P27694;Q9UHN1;Q86UA6;Q9HCU8;P56282}

25786 Pathogen[ P0C206] interacts with 15 human  
partners: {Q9BTE3;Q9UHN1;P35251;Q9HCU8;P06746;P54098;Q9NRL2;P49005;O14519;Q15054;P56282;P27694;P11388;P15927;Q00059}

25787 Pathogen[ P03363] interacts with 14 human  
partners: {P27694;Q9NRL2;Q9BTE3;P35251;P49005;P15927;P54098;Q86UA6;Q9HCU8;P06746;Q00059;Q15054;O14519;Q9UHN1}

25788 [Cluster 2345]GO:2000121+P biological\_process [name] regulation of removal of superoxide radicals [def] "Any process that modulates the frequency, rate or extent of removal of superoxide radicals." [GOC

25789 Pathogen[ Q2Q067] interacts with 1 human partners: {Q16236}

25790 Pathogen[ P0C214] interacts with 1 human partners: {Q16236}

25791 Pathogen[ P03346] interacts with 1 human partners: {Q16236}

25792 Pathogen[ Q85601] interacts with 1 human partners:{Q16236}  
25793 Pathogen[ P14079] interacts with 1 human partners:{Q16236}  
25794 Pathogen[ P03383] interacts with 1 human partners:{Q16236}  
25795 Pathogen[ P03410] interacts with 1 human partners:{Q16236}  
25796 Pathogen[ P14075] interacts with 1 human partners:{Q16236}  
25797 Pathogen[ P0C206] interacts with 1 human partners:{Q16236}  
25798 Pathogen[ P03363] interacts with 1 human partners:{Q16236}  
25799 [Cluster 2346]GO:0007267+P biological\_process [name] cell-cell signaling [def] "Any process that mediates the transfer of information from one cell to another." [GOC  
25800 Pathogen[ Q2Q067] interacts with 16 human partners:{Q13118;O14786;Q15398;Q96B97;O95886;Q9NR48;O75896;Q9P1A6;Q13123;P15976;Q92754;Q12904;Q16621;P10599;O75791;O14490}  
25801 Pathogen[ P0C214] interacts with 19 human partners:{O14490;O14786;Q12904;O75896;P62993;Q16621;Q9P1A6;O95989;Q92754;Q9Y2H0;Q15398;Q9H0E2;O95886;P10599;Q9NR48;O75791;Q13123;P43490;Q96B97}  
25802 Pathogen[ P03346] interacts with 28 human partners:{Q13588;O14490;Q16621;Q96B97;Q7RTS1;P06401;P62993;Q15942;P55196;Q9H0E2;Q92754;O75896;Q12904;Q15398;Q9Y2H0;P15976;Q13118;O95886;Q13123;Q9H2C1;Q99593;P10599;Q9NR48;Q13285;O14786;Q9P1A6;Q9HBU1;O75791}  
25803 Pathogen[ Q85601] interacts with 17 human partners:{O14490;P62993;Q92754;Q15398;P15976;Q16621;Q9NR48;O95989;Q9P1A6;O14786;P10599;Q13123;Q15942;Q96B97;Q13118;O95886;O75791}  
25804 Pathogen[ P14079] interacts with 25 human partners:{P01215;Q13118;P20809;O75896;P20396;P43490;P15976;Q96B97;Q9Y2H0;O75791;Q7RTS1;O95989;P13232;Q16621;Q92754;P62993;P10599;O95886;Q9P1A6;Q12904;Q9H0E2;O14490;Q15942;Q15398;Q13123}  
25805 Pathogen[ P03383] interacts with 13 human partners:{Q9P1A6;Q12904;O75791;O75896;O95886;O14490;P10599;Q16621;Q13123;Q92754;P01215;O95989;Q9Y2H0}  
25806 Pathogen[ P03410] interacts with 27 human partners:{Q9P1A6;O14786;P10599;Q15398;Q13445;Q9Y2H0;P20809;Q7RTS1;O14490;P01215;Q12904;P43490;Q15942;Q16621;O95989;Q9H0E2;Q13118;Q96B97;O95886;Q13123;P62993;O75896;P15976;Q92754;O75791;P13232;P20396}  
25807 Pathogen[ P14075] interacts with 14 human partners:{O75791;O95886;Q92754;Q12904;O14490;Q13123;O75896;Q9P1A6;P20809;Q9Y2H0;Q16621;P01215;O95989;P10599}  
25808 Pathogen[ P0C206] interacts with 28 human partners:{P06401;Q96B97;O95886;P43490;O75896;P15976;O75791;Q13123;P62993;O14786;Q92754;O95989;Q9Y2H0;Q9H0E2;O14490;Q9NR48;P55196;Q9H2C1;P01215;Q15942;P20809;Q16621;P10599;P20396;Q13118;Q15398;Q9P1A6;Q12904}  
25809 Pathogen[ P03363] interacts with 17 human partners:{Q7RTS1;O14786;Q96B97;Q15398;Q16621;O75791;Q13588;Q13123;Q9H0E2;Q9NR48;O95886;Q9P1A6;O14490;Q15942;Q9HBU1;Q13118;Q92754}  
25810 [Cluster 2347]GO:0045599+P biological\_process [name] negative regulation of fat cell differentiation [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of adipocyte differentiation." [GOC  
25811 Pathogen[ Q2Q067] interacts with 10 human partners:{Q8WW38;P23769;P35548;Q9GZV5;Q8IX07;Q96RU7;P47928;Q8WYK2;Q15834;Q8IXJ9}  
25812 Pathogen[ P0C214] interacts with 9 human partners:{P23769;Q9GZV5;Q15834;Q8IXJ9;P47928;Q8WW38;Q8IX07;Q96RU7;P35548}  
25813 Pathogen[ P03346] interacts with 11 human partners:{Q15834;P35548;Q8WW38;Q9GZV5;P23769;Q8IX07;Q12778;Q96RU7;Q8IXJ9;Q8WYK2;P47928}  
25814 Pathogen[ Q85601] interacts with 10 human partners:{Q15834;Q8WW38;P23769;Q8IXJ9;Q9GZV5;P35548;Q8IX07;Q96RU7;Q8WYK2;P47928}  
25815 Pathogen[ P14079] interacts with 11 human partners:{Q8WYK2;Q9GZV5;Q8IXJ9;O43294;Q8IX07;Q15834;Q96RU7;P23769;Q8WW38;P47928;O15503}  
25816 Pathogen[ P03383] interacts with 8 human partners:{Q8IXJ9;Q8WW38;P23769;P35548;Q96RU7;P47928;Q9GZV5;Q15834}  
25817 Pathogen[ P03410] interacts with 12 human partners:{Q8WYK2;O43294;Q8WW38;Q9GZV5;P35548;Q8IX07;Q8IXJ9;P47928;Q15834;Q96RU7;P23769;O15503}  
25818 Pathogen[ P14075] interacts with 8 human partners:{Q9GZV5;Q8IXJ9;P23769;P35548;P47928;Q8WW38;Q15834;Q96RU7}  
25819 Pathogen[ P0C206] interacts with 11 human partners:{Q8WW38;Q8WYK2;Q96RU7;Q9GZV5;Q8IXJ9;P35548;Q15834;O43294;P23769;Q8IX07;P47928}  
25820 Pathogen[ P03363] interacts with 7 human partners:{Q15834;Q8IXJ9;P35548;Q8WYK2;Q9GZV5;P47928;Q8WW38}  
25821 [Cluster 2348]GO:0051149+P biological\_process [name] positive regulation of muscle cell differentiation [def] "Any process that activates or increases the frequency, rate or extent of muscle cell differentiation." [CL  
25822 Pathogen[ Q2Q067] interacts with 10 human partners:{Q92585;Q12982;P13349;P63241;P15172;P60953;P15923;Q15759;P23409;Q02078}  
25823 Pathogen[ P0C214] interacts with 9 human

25824 partners:{Q92585;P13349;P15172;P60953;P63241;Q02078;P15923;Q12982;Q15759}  
Pathogen[ P03346] interacts with 12 human  
partners:{Q92585;Q02078;P13349;P15923;P15172;P23409;P15173;P60953;P63241;Q9BWF3;Q15759;Q12982}

25825 Pathogen[ Q85601] interacts with 10 human  
partners:{Q92585;Q02078;P15172;P13349;Q12982;P63241;P23409;P15923;Q15759;P60953}

25826 Pathogen[ P14079] interacts with 10 human  
partners:{Q12982;Q02078;Q06413;P13349;P23409;P52564;P15923;Q15759;P63241;Q92585}

25827 Pathogen[ P03383] interacts with 7 human  
partners:{Q92585;P15172;P60953;P15923;P63241;Q15759;Q02078}

25828 Pathogen[ P03410] interacts with 8 human  
partners:{P23409;P15923;Q92585;P13349;P60953;Q12982;Q02078;P63241}

25829 Pathogen[ P14075] interacts with 7 human  
partners:{P60953;Q92585;Q15759;P15172;P63241;P15923;Q02078}

25830 Pathogen[ P0C206] interacts with 10 human  
partners:{Q12982;Q02078;P23409;P13349;P15923;P60953;P63241;P15172;Q15759;Q92585}

25831 Pathogen[ P03363] interacts with 10 human  
partners:{Q9BWF3;P13349;P15923;P63241;P23409;P15172;P60953;Q12982;Q92585;Q02078}

25832 [Cluster 2349]GO:0019255+P biological\_process [name] glucose 1-phosphate metabolic process [def] "The chemical reactions and pathways involving glucose 1-phosphate, a monophosphorylated derivative of glucose with the phosphate group attached to C-1." [GOC

25833 Pathogen[ Q2Q067] interacts with 1 human partners:{Q16851}

25834 Pathogen[ P0C214] interacts with 1 human partners:{Q16851}

25835 Pathogen[ P03346] interacts with 1 human partners:{Q16851}

25836 Pathogen[ Q85601] interacts with 1 human partners:{Q16851}

25837 Pathogen[ P14079] interacts with 1 human partners:{Q16851}

25838 Pathogen[ P03383] interacts with 1 human partners:{Q16851}

25839 Pathogen[ P03410] interacts with 1 human partners:{Q16851}

25840 Pathogen[ P14075] interacts with 1 human partners:{Q16851}

25841 Pathogen[ P0C206] interacts with 1 human partners:{Q16851}

25842 Pathogen[ P03363] interacts with 1 human partners:{Q16851}

25843 [Cluster 2350]GO:0010870+P biological\_process [name] positive regulation of receptor biosynthetic process [def] "Any process that increases the frequency or rate of receptor biosynthesis. Receptor biosynthesis is the collection of chemical reactions and pathways resulting in the formation of a receptor molecule, a macromolecule that undergoes combination with a hormone, neurotransmitter, drug or intracellular messenger to initiate a change in cell function." [GOC

25844 Pathogen[ Q2Q067] interacts with 3 human partners:{Q13547;P20719;Q92769}

25845 Pathogen[ P0C214] interacts with 2 human partners:{Q13547;Q92769}

25846 Pathogen[ P03346] interacts with 3 human partners:{P20719;Q92769;Q13547}

25847 Pathogen[ Q85601] interacts with 2 human partners:{Q92769;Q13547}

25848 Pathogen[ P14079] interacts with 1 human partners:{Q92769}

25849 Pathogen[ P03383] interacts with 2 human partners:{Q92769;Q13547}

25850 Pathogen[ P03410] interacts with 2 human partners:{Q92769;Q13547}

25851 Pathogen[ P14075] interacts with 2 human partners:{Q13547;Q92769}

25852 Pathogen[ P0C206] interacts with 3 human partners:{Q92769;Q13547;P20719}

25853 Pathogen[ P03363] interacts with 2 human partners:{P20719;Q13547}

25854 [Cluster 2351]GO:0044209+P biological\_process [name] AMP salvage [def] "The chemical reactions and pathways resulting in the formation of adenosine monophosphate (AMP) from derivatives of it (either adenine, ADP or adenosine 3',5'-bisphosphate) without de novo synthesis." [GOC

25855 Pathogen[ Q2Q067] interacts with 1 human partners:{P07741}

25856 Pathogen[ P0C214] interacts with 1 human partners:{P07741}

25857 Pathogen[ P03346] interacts with 1 human partners:{P07741}

25858 Pathogen[ Q85601] interacts with 1 human partners:{P07741}

25859 Pathogen[ P14079] interacts with 1 human partners:{P07741}

25860 Pathogen[ P03383] interacts with 1 human partners:{P07741}

25861 Pathogen[ P03410] interacts with 1 human partners:{P07741}

25862 Pathogen[ P14075] interacts with 1 human partners:{P07741}

25863 Pathogen[ P0C206] interacts with 1 human partners:{P07741}

25864 Pathogen[ P03363] interacts with 1 human partners:{P07741}

25865 [Cluster 2352]GO:0007398+P biological\_process [name] ectoderm development [def] "The process whose specific outcome is the progression of the ectoderm over time, from its formation to the mature structure. In animal embryos, the ectoderm is the outer germ layer of the embryo, formed during gastrulation." [GOC

25866 Pathogen[ Q2Q067] interacts with 6 human  
partners:{P02538;Q8N7J2;Q9UKW6;Q8TE85;P04259;Q13105}

25867 Pathogen[ P0C214] interacts with 7 human  
partners:{Q9UKW6;P02538;Q9HCE7;Q8TE85;P04259;Q8N7J2;Q13105}

25868 Pathogen[ P03346] interacts with 7 human  
partners:{P02538;Q8N7J2;Q8TE85;Q13105;P04259;Q9UKW6;Q9UIW0}

25869 Pathogen[ Q85601] interacts with 6 human  
partners:{Q8TE85;P02538;P04259;Q9UKW6;Q8N7J2;Q13105}

25870 Pathogen[ P14079] interacts with 5 human  
partners:{Q8TE85;Q13105;Q8N7J2;P04259;Q9UKW6}

25871 Pathogen[ P03383] interacts with 6 human



25872 partners:{Q9UKW6;Q8TE85;Q13105;Q8N7J2;P02538;P04259}  
Pathogen[ P03410] interacts with 6 human

25873 partners:{P02538;Q9UKW6;Q8TE85;P04259;Q8N7J2;Q13105}  
Pathogen[ P14075] interacts with 6 human

25874 partners:{Q13105;Q8TE85;Q8N7J2;P04259;Q9UKW6;P02538}  
Pathogen[ P0C206] interacts with 6 human

25875 partners:{Q8TE85;P02538;Q8N7J2;Q9UKW6;P04259;Q13105}  
Pathogen[ P03363] interacts with 7 human

25876 partners:{Q9UIW0;Q13105;P02538;Q9UKW6;Q8TE85;P04259;Q8N7J2}  
[Cluster 2353]GO:0006990+P biological\_process [name] positive regulation of transcription from RNA polymerase II promoter involved in unfolded protein response [def] "The activation of genes whose promoters contain a specific sequence elements such as the unfolded protein response element (UPRE\_ consensus CAGCGTG) or the ER stress-response element (ERSE\_ CCAAN(N)9CCACG), as a result of signaling via the unfolded protein response." [GOC

25877 Pathogen[ Q2Q067] interacts with 1 human partners:{P18850}  
25878 Pathogen[ P0C214] interacts with 1 human partners:{P18850}  
25879 Pathogen[ P03346] interacts with 1 human partners:{P18850}  
25880 Pathogen[ Q85601] interacts with 1 human partners:{P18850}  
25881 Pathogen[ P14079] interacts with 1 human partners:{P18850}  
25882 Pathogen[ P03383] interacts with 1 human partners:{P18850}  
25883 Pathogen[ P03410] interacts with 1 human partners:{P18850}  
25884 Pathogen[ P14075] interacts with 1 human partners:{P18850}  
25885 Pathogen[ P0C206] interacts with 1 human partners:{P18850}  
25886 Pathogen[ P03363] interacts with 1 human partners:{P18850}

25887 [Cluster 2354]GO:0043200+P biological\_process [name] response to amino acid stimulus [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an amino acid stimulus. An amino acid is a carboxylic acids containing one or more amino groups." [CHEBI

25888 Pathogen[ Q2Q067] interacts with 6 human  
partners:{Q04206;P05062;P23528;P29474;P27986;P08397}  
25889 Pathogen[ P0C214] interacts with 6 human  
partners:{P29474;Q04206;P05062;P08397;P49588;P27986}  
25890 Pathogen[ P03346] interacts with 5 human  
partners:{P29474;Q04206;P05062;P23528;P27986}  
25891 Pathogen[ Q85601] interacts with 6 human  
partners:{P05062;P27986;Q04206;P29474;P08397;P23528}  
25892 Pathogen[ P14079] interacts with 4 human partners:{P23528;P08397;Q16878;P49588}  
25893 Pathogen[ P03383] interacts with 5 human  
partners:{P27986;P29474;Q04206;P08397;P23528}  
25894 Pathogen[ P03410] interacts with 7 human  
partners:{Q04206;P27986;P08397;P49588;P05062;P29474;P23528}  
25895 Pathogen[ P14075] interacts with 5 human  
partners:{P29474;Q04206;P08397;P23528;P27986}  
25896 Pathogen[ P0C206] interacts with 6 human  
partners:{P05062;P27986;Q04206;P29474;P08397;P23528}

25897 Pathogen[ P03363] interacts with 4 human partners:{P29474;Q04206;P23528;P27986}  
25898 [Cluster 2355]GO:0001539+P biological\_process [name] ciliary or flagellar motility [def] "Cell motility due to movement of cilia or flagella." [GOC

25899 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96C74}  
25900 Pathogen[ P0C214] interacts with 1 human partners:{Q96C74}  
25901 Pathogen[ P03346] interacts with 2 human partners:{Q9UIF3;Q96C74}  
25902 Pathogen[ Q85601] interacts with 1 human partners:{Q96C74}  
25903 Pathogen[ P14079] interacts with 3 human partners:{075952;Q9UIF3;Q96C74}  
25904 Pathogen[ P03383] interacts with 1 human partners:{Q96C74}  
25905 Pathogen[ P03410] interacts with 2 human partners:{Q9UIF3;075952}  
25906 Pathogen[ P14075] interacts with 1 human partners:{Q96C74}  
25907 Pathogen[ P0C206] interacts with 3 human partners:{075952;Q9UIF3;Q96C74}  
25908 Pathogen[ P03363] interacts with 2 human partners:{Q96C74;Q9UIF3}

25909 [Cluster 2356]GO:0051341+P biological\_process [name] regulation of oxidoreductase activity [def] "Any process that modulates the frequency, rate or extent of oxidoreductase activity, the catalysis of an oxidation-reduction (redox) reaction, a reversible chemical reaction in which the oxidation state of an atom or atoms within a molecule is altered. One substrate acts as a hydrogen or electron donor and becomes oxidized, while the other acts as hydrogen or electron acceptor and becomes reduced." [EC

25910 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BQ95}  
25911 Pathogen[ P0C214] interacts with 1 human partners:{Q9BQ95}  
25912 Pathogen[ P03346] interacts with 1 human partners:{Q9BQ95}  
25913 Pathogen[ Q85601] interacts with 1 human partners:{Q9BQ95}  
25914 Pathogen[ P14079] interacts with 1 human partners:{Q9BQ95}  
25915 Pathogen[ P03383] interacts with 1 human partners:{Q9BQ95}  
25916 Pathogen[ P03410] interacts with 1 human partners:{Q9BQ95}  
25917 Pathogen[ P14075] interacts with 1 human partners:{Q9BQ95}  
25918 Pathogen[ P0C206] interacts with 1 human partners:{Q9BQ95}

25919 Pathogen[ P03363] interacts with 1 human partners:{Q9BQ95}  
25920 [Cluster 2357]GO:0006805+P biological\_process [name] xenobiotic metabolic process  
[def] "The chemical reactions and pathways involving a xenobiotic compound, a compound  
foreign to living organisms. Used of chemical compounds, e.g. a xenobiotic chemical,  
such as a pesticide." [GOC  
25921 Pathogen[ Q2Q067] interacts with 6 human  
partners:{O00204;O00170;Q16851;P15559;P35869;P51580}  
25922 Pathogen[ P0C214] interacts with 14 human  
partners:{O00170;P35869;P51580;P40261;O75223;Q16851;Q9NWM0;O00204;P07327;P23526;P155  
59;Q06520;Q6IB77;Q9NZL9}  
25923 Pathogen[ P03346] interacts with 11 human  
partners:{O00204;Q06520;P23526;Q9NZL9;P51580;O00170;P15559;Q16851;O75469;P35869;P402  
61}  
25924 Pathogen[ Q85601] interacts with 6 human  
partners:{O00170;Q16851;Q6IB77;O00204;P35869;P23526}  
25925 Pathogen[ P14079] interacts with 13 human  
partners:{O75223;O14841;P35869;Q96KP4;Q16851;O00170;P15559;Q9NZL9;Q6IB77;O75469;P106  
20;P23526;P51580}  
25926 Pathogen[ P03383] interacts with 3 human partners:{O00170;Q16851;P35869}  
25927 Pathogen[ P03410] interacts with 10 human  
partners:{P15559;Q16851;Q6IB77;O00204;O14841;O00170;P23526;O75223;Q9NZL9;P51580}  
25928 Pathogen[ P14075] interacts with 5 human  
partners:{P35869;P15559;O00170;P51580;Q16851}  
25929 Pathogen[ P0C206] interacts with 10 human  
partners:{Q16851;Q9NZL9;P35869;O75469;P15559;P51580;O00204;P23526;Q6IB77;O00170}  
25930 Pathogen[ P03363] interacts with 6 human  
partners:{P51580;Q16851;P35869;O00204;O00170;Q06520}  
25931 [Cluster 2358]GO:0008286+P biological\_process [name] insulin receptor signaling  
pathway [def] "The series of molecular signals generated as a consequence of the insulin  
receptor binding to insulin." [GOC  
25932 Pathogen[ Q2Q067] interacts with 24 human  
partners:{P23588;P46108;P31749;Q92922;Q92572;P36543;Q5T1C6;P36956;P56945;Q13541;O435  
24;Q9BVC4;Q92529;Q8WWQ0;Q96RU7;P35813;P31946;P27986;Q04637;P06730;Q9BX66;Q9UKG1;P627  
53;Q13542}  
25933 Pathogen[ P0C214] interacts with 28 human  
partners:{Q16864;P35813;Q9BVC4;Q9Y376;P56945;Q9UI12;P62993;P23588;Q9BX66;P36543;Q925  
29;Q9UKG1;Q13542;Q92922;Q92572;Q8WWQ0;P62753;Q04637;Q96RU7;Q5T1C6;P46108;P31946;P067  
30;Q99704;P27986;P43490;P31749;Q13541}  
25934 Pathogen[ P03346] interacts with 35 human  
partners:{P21283;Q13542;P35813;P06730;P36956;Q9Y5K8;Q92572;Q9BVC4;Q13541;Q13322;P365  
43;Q93050;P62993;Q9BX66;Q9Y376;P56945;P17706;P31749;Q8WWQ0;Q99704;Q12778;P98177;P461  
08;Q96RU7;P23588;P31946;Q92922;Q9UKG1;Q16864;Q04637;Q92529;O43524;P62753;P27986;Q6ZW  
J1}  
25935 Pathogen[ Q85601] interacts with 27 human  
partners:{P31946;P31749;P62993;P06730;P23588;Q9BX66;P62753;Q93050;Q6ZJW1;Q04637;Q9Y3  
76;P46108;Q13541;P27986;Q9BVC4;P56945;P36956;Q8WWQ0;Q92529;Q96RU7;Q9UKG1;Q92572;P358  
13;Q92922;Q5T1C6;Q13542;P36543}  
25936 Pathogen[ P14079] interacts with 36 human  
partners:{P31751;P36543;Q9Y5K8;Q9UKG1;P06730;Q99704;P61421;P62753;Q96LB4;Q92922;P434  
90;Q8WWQ0;Q9BVC4;Q92572;Q13541;P23588;P35813;P31946;Q5T1C6;Q9Y478;Q8N8Y2;Q8WU20;Q96R  
U7;Q13542;Q93050;P62993;Q9UI12;O95670;Q92529;Q6ZJW1;Q16864;Q9BX66;P36956;Q9Y376;P461  
08;Q04637}  
25937 Pathogen[ P03383] interacts with 17 human  
partners:{P27986;P56945;Q92572;P31946;P31749;P62753;P35813;Q13542;P23588;P06730;Q135  
41;Q96RU7;Q04637;Q8WWQ0;Q92922;P36543;Q5T1C6}  
25938 Pathogen[ P03410] interacts with 38 human  
partners:{P36956;Q92529;P27986;P35813;Q8N8Y2;Q6ZJW1;P06730;P61421;Q92572;Q93050;P317  
49;Q9BVC4;Q13541;P43490;Q8WWQ0;Q9Y376;Q5T1C6;Q99704;Q92922;Q9UI12;Q96LB4;Q13542;O956  
70;Q96RU7;P46108;P56945;Q16864;Q8WU20;Q04637;Q9Y5K8;P62993;O75348;Q9UKG1;Q9BX66;P365  
43;P62753;P23588;P31946}  
25939 Pathogen[ P14075] interacts with 17 human  
partners:{P35813;Q8WWQ0;Q13542;P23588;Q92922;P06730;Q5T1C6;P31749;P62753;Q04637;P279  
86;Q92572;Q96RU7;P31946;Q13541;P56945;P36543}  
25940 Pathogen[ P0C206] interacts with 34 human  
partners:{Q13541;Q9UKG1;P36543;P31749;Q92572;Q6ZJW1;Q92922;P36956;P43490;Q9Y376;P279  
86;Q8WWQ0;P62993;Q96RU7;P06730;P31946;Q13542;Q8WU20;Q9UI12;Q5T1C6;Q99704;Q9Y5K8;Q168  
64;Q9BX66;P23588;P56945;Q04637;P46108;Q92529;P62753;P17706;Q9BVC4;Q93050;P35813}  
25941 Pathogen[ P03363] interacts with 26 human  
partners:{P17706;Q9BVC4;Q8WWQ0;Q9BX66;P36543;Q99704;P62753;P31946;P23588;Q92529;Q925  
72;O43524;Q13480;P31749;P46108;Q6ZJW1;Q9Y376;Q9Y5K8;P56945;Q13541;Q92922;P27986;P067  
30;Q9UKG1;Q13542;Q04637}  
25942 [Cluster 2359]GO:0034969+P biological\_process [name] histone arginine methylation  
[def] "The modification of a histone by addition of a methyl group to an arginine  
residue." [GOC  
25943 Pathogen[ Q2Q067] interacts with 4 human partners:{Q9NVM4;P55345;Q9NR22;Q86X55}  
25944 Pathogen[ P0C214] interacts with 4 human partners:{Q9NVM4;P55345;Q86X55;Q9NR22}

25945 Pathogen[ P03346] interacts with 4 human partners:{P55345;Q9NR22;Q9NVM4;Q86X55}

25946 Pathogen[ Q85601] interacts with 4 human partners:{Q9NR22;Q86X55;Q9NVM4;P55345}

25947 Pathogen[ P14079] interacts with 3 human partners:{Q9NR22;Q9NVM4;P55345}

25948 Pathogen[ P03383] interacts with 2 human partners:{Q86X55;Q9NR22}

25949 Pathogen[ P03410] interacts with 4 human partners:{Q9NVM4;Q86X55;Q9NR22;P55345}

25950 Pathogen[ P14075] interacts with 2 human partners:{Q9NR22;Q86X55}

25951 Pathogen[ P0C206] interacts with 4 human partners:{Q86X55;Q9NVM4;Q9NR22;P55345}

25952 Pathogen[ P03363] interacts with 3 human partners:{Q9NVM4;Q9NR22;Q86X55}

25953 [Cluster 2360]GO:0032324+P biological\_process [name] molybdopterin cofactor biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of the molybdopterin cofactor (Moco), essential for the catalytic activity of some enzymes, e.g. sulfite oxidase, xanthine dehydrogenase, and aldehyde oxidase. The cofactor consists of a mononuclear molybdenum (Mo-molybdopterin) or tungsten ion (W-molybdopterin) coordinated by one or two molybdopterin ligands." [GOC

25954 Pathogen[ Q2Q067] interacts with 2 human partners:{O96007;Q9Y697}

25955 Pathogen[ P0C214] interacts with 4 human partners:{O96033;O95396;Q9Y697;O96007}

25956 Pathogen[ P03346] interacts with 2 human partners:{Q9Y697;O96007}

25957 Pathogen[ Q85601] interacts with 2 human partners:{Q9Y697;O96007}

25958 Pathogen[ P14079] interacts with 3 human partners:{O96007;O96033;Q9Y697}

25959 Pathogen[ P03383] interacts with 2 human partners:{Q9Y697;O96007}

25960 Pathogen[ P03410] interacts with 3 human partners:{Q9Y697;O96007;O96033}

25961 Pathogen[ P14075] interacts with 2 human partners:{O96007;Q9Y697}

25962 Pathogen[ P0C206] interacts with 3 human partners:{Q9Y697;O96007;O95396}

25963 Pathogen[ P03363] interacts with 2 human partners:{O96007;Q9Y697}

25964 [Cluster 2361]GO:0007091+P biological\_process [name] mitotic metaphase/anaphase transition [def] "The cell cycle process in which a cell progresses from metaphase to anaphase during mitosis, triggered by the destruction of mitotic cyclins." [PMID

25965 Pathogen[ Q2Q067] interacts with 7 human partners:{Q9UJX2;O60216;Q9UKT4;Q14683;Q8WVM7;P30260;Q8N3U4}

25966 Pathogen[ P0C214] interacts with 7 human partners:{Q9UJX2;Q14683;Q8N3U4;Q8WVM7;P30260;O60216;Q9UKT4}

25967 Pathogen[ P03346] interacts with 7 human partners:{Q8N3U4;Q14683;Q9UJX2;Q9UKT4;Q8WVM7;P30260;O60216}

25968 Pathogen[ Q85601] interacts with 7 human partners:{Q9UJX2;Q9UKT4;O60216;Q8WVM7;Q14683;Q8N3U4;P30260}

25969 Pathogen[ P14079] interacts with 6 human partners:{Q9UKT4;O60216;Q8N3U4;P30260;Q9UQE7;Q14683}

25970 Pathogen[ P03383] interacts with 7 human partners:{Q14683;Q8N3U4;Q9UKT4;O60216;Q9UJX2;P30260;Q8WVM7}

25971 Pathogen[ P03410] interacts with 7 human partners:{Q9UKT4;Q9UQE7;O60216;Q14683;Q8N3U4;P30260;Q8WVM7}

25972 Pathogen[ P14075] interacts with 7 human partners:{Q14683;Q9UKT4;Q8WVM7;Q9UJX2;P30260;O60216;Q8N3U4}

25973 Pathogen[ P0C206] interacts with 8 human partners:{O60216;Q9UJX2;P30260;Q9UKT4;Q9UQE7;Q14683;Q8N3U4;Q8WVM7}

25974 Pathogen[ P03363] interacts with 7 human partners:{Q9UJX2;P30260;Q8WVM7;Q9UKT4;Q8N3U4;Q14683;O60216}

25975 [Cluster 2362]GO:0006406+P biological\_process [name] mRNA export from nucleus [def] "The directed movement of mRNA from the nucleus to the cytoplasm." [GOC

25976 Pathogen[ Q2Q067] interacts with 46 human partners:{Q92900;Q96FV9;Q12769;Q9UPR3;P61326;O75494;Q01130;Q9H1B4;P78406;Q9UBU9;O00148;P52594;Q13838;Q07955;Q6I9Y2;Q9BRD0;Q9BZI7;Q13769;P63241;Q16629;Q10570;Q9HAU5;P84103;Q8IYB3;Q86V81;Q53GS7;Q86US8;Q05519;P26368;Q9Y5S9;Q01081;Q9P2I0;Q13243;Q8NI27;Q09161;Q92540;P57740;Q9H4D5;P52298;Q9UKF6;Q14493;Q8WUM0;O60508;P06730;P35658;Q96QD9}

25977 Pathogen[ P0C214] interacts with 48 human partners:{Q9BZI7;Q96FV9;P26368;Q09161;O00148;Q9UKF6;P84103;Q86V81;Q9Y5S9;Q13769;O60508;Q92900;P78406;P57740;Q10570;Q92540;Q9HAU5;P63241;Q07955;P52298;Q86US8;Q14493;Q8IYB3;Q9H1B4;Q53GS7;P61326;P35658;Q13243;Q9UPR3;Q9P2I0;Q05519;Q8NI27;Q01081;O75494;Q15287;Q9BRD0;Q9UMR2;P52594;Q96QD9;Q9H4D5;P06730;Q13838;Q8WUM0;Q16629;Q9UBU9;Q12769;Q6I9Y2;Q01130}

25978 Pathogen[ P03346] interacts with 52 human partners:{Q9UPR3;Q9BRD0;Q9Y5S9;Q96FV9;Q9BZI7;Q8WUM0;Q09161;P06730;Q08170;Q8IYB3;Q12769;Q86US8;Q9UKF6;Q9UMR2;P78406;P57740;Q53GS7;Q13242;Q13247;Q13769;P63241;P35658;P52298;Q16629;Q07955;Q9H1B4;Q14493;Q86V81;O60508;Q96J01;P52594;P26368;Q96QD9;Q01081;P61326;Q13838;Q9HAU5;Q92540;P84103;Q9H4D5;Q15287;Q05519;Q01130;Q9UBU9;Q9P2I0;Q13243;O00148;Q92900;O75494;Q8NI27;Q10570;Q6I9Y2}

25979 Pathogen[ Q85601] interacts with 48 human partners:{Q9BZI7;Q8IYB3;Q13243;P06730;Q13769;Q12769;Q01130;Q92540;Q9UBU9;P78406;P57740;Q53GS7;P61326;Q15287;Q8WUM0;O00148;Q9H4D5;Q9UMR2;Q86V81;O75494;P63241;P52594;Q16629;Q07955;Q9H1B4;Q09161;Q96FV9;Q9HAU5;O60508;Q13838;Q9BRD0;Q10570;Q9P2I0;Q96QD9;Q01081;Q05519;Q8NI27;P84103;P35658;Q86US8;Q9UPR3;P52298;P26368;Q92900;Q9UKF6;Q6I9Y2;Q14493;Q9Y5S9}

25980 Pathogen[ P14079] interacts with 46 human partners:{Q15287;O60508;P06730;Q9H4D5;Q9UKF6;P57740;Q10570;P52298;P35658;Q13243;Q9Y5S9;P26368;Q92540;Q8NI27;Q86US8;Q9UBU9;P52594;Q13838;Q9H1B4;Q96FV9;Q13769;Q8IYB3;Q16629;Q6I9Y2;P61326;Q8WUM0;Q53GS7;Q9BZI7;Q05519;Q86V81;O00148;Q9HAU5;Q9BRD0;Q07955;P632

25981 Pathogen[ P03383] interacts with 46 human partners: {Q9H1B4;Q8WUM0;Q9UBU9;Q07955;Q15287;Q8NI27;O75494;Q9H4D5;Q13769;Q13838;Q9Y5S9;P78406;P57740;Q96FV9;Q10570;P61326;P26368;Q13243;Q86V81;Q53GS7;P63241;Q9UKF6;Q12769;Q09161;Q16629;Q9UPR3;P06730;Q8IYB3;P84103;Q9HAU5;Q01130;Q86US8;Q14493;Q96QD9;Q01081;P52298;P35658;Q05519;Q9P2I0;Q92540;Q92900;Q9BRD0;P52594;Q6I9Y2;O00148;Q9BZI7}

25982 Pathogen[ P03410] interacts with 48 human partners: {Q92540;Q13838;Q01081;P52594;P26368;Q10570;P61326;O60508;Q16629;Q92900;Q8NI27;Q15287;P06730;Q9UPR3;Q9Y5S9;Q14493;O00148;P78406;Q9HAU5;Q9BZI7;Q96FV9;Q96QD9;Q9H4D5;Q9UMR2;Q05519;Q07955;P35658;P52298;Q9P2I0;Q86V81;Q9UBU9;Q9H1B4;Q13769;Q8IYB3;Q86US8;Q01130;Q9UKF6;Q6I9Y2;Q8WUM0;P63241;Q09161;Q9BRD0;P84103;P57740;Q12769;Q13243;O75494;Q53GS7}

25983 Pathogen[ P14075] interacts with 46 human partners: {Q05519;Q09161;Q92900;Q9P2I0;Q9UPR3;Q86V81;Q13243;Q13769;P61326;Q14493;P78406;P57740;Q53GS7;Q01130;P06730;O75494;P63241;P35658;Q8NI27;Q96QD9;Q86US8;Q6I9Y2;Q15287;P26368;Q9BRD0;Q01081;Q9HAU5;Q8IYB3;P52594;Q9Y5S9;Q12769;P84103;Q9UBU9;Q9H1B4;Q8WUM0;Q9H4D5;Q96FV9;Q9UKF6;Q13838;Q92540;Q16629;Q10570;O00148;Q07955;P52298;Q9BZI7}

25984 Pathogen[ P0C206] interacts with 47 human partners: {Q53GS7;Q15287;O00148;Q9UKF6;O60508;Q9BZI7;Q07955;P26368;P52298;P61326;Q01081;Q09161;Q8NI27;Q05519;Q8IYB3;Q13243;Q16629;O75494;P57740;Q9P2I0;P06730;Q13769;Q8WUM0;Q86US8;Q9H4D5;Q96FV9;Q13838;Q9UBU9;Q9BRD0;Q9H1B4;Q9UPR3;Q9HAU5;P63241;P84103;Q96QD9;Q92900;P78406;Q12769;Q9UMR2;Q01130;Q92540;Q14493;P35658;Q6I9Y2;Q9Y5S9;Q86V81;Q10570}

25985 Pathogen[ P03363] interacts with 53 human partners: {Q53GS7;Q9H4D5;Q96J01;Q9P2I0;Q10570;Q92900;Q08170;Q86US8;Q12769;Q9UPR3;Q16629;Q13769;Q01130;Q9UBU9;Q8NI27;Q96FV9;Q92620;P61326;Q05519;Q96QD9;Q15287;Q8WUM0;Q13242;Q8IYB3;P26368;O00148;Q13243;Q86V81;Q9HAU5;P52298;Q13838;P35658;P57740;Q6I9Y2;Q9UMR2;P63241;Q07955;Q92540;Q01081;P78406;Q9BZI7;Q13247;Q9UKF6;P84103;P52594;Q14493;P06730;Q9BRD0;Q9Y5S9;Q9H1B4;O75494;O60508;Q09161}

25986 [Cluster 2363]GO:0071222+P biological\_process [name] cellular response to lipopolysaccharide [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a lipopolysaccharide stimulus\_ lipopolysaccharide is a major component of the cell wall of gram-negative bacteria." [GOC

25987 Pathogen[ Q2Q067] interacts with 13 human partners: {Q8WUQ7;Q6PD62;Q6P1J9;Q04206;Q99684;Q15744;Q15327;Q9GZX7;Q02556;Q9UBC1;Q8NFZ5;Q8N7H5;Q9BQE4}

25988 Pathogen[ P0C214] interacts with 13 human partners: {Q15327;Q04206;P05121;Q02556;Q6P1J9;Q8N7H5;Q8NFZ5;Q9GZX7;Q99684;Q9BQE4;Q5EBM0;Q6PD62;Q9UBC1}

25989 Pathogen[ P03346] interacts with 11 human partners: {Q6PD62;Q8NFZ5;Q15327;Q04206;Q02556;Q99684;Q15744;Q9UBC1;Q8WUQ7;Q6P1J9;Q8N7H5}

25990 Pathogen[ Q85601] interacts with 13 human partners: {Q6PD62;Q02556;Q6P1J9;Q9GZX7;Q8NFZ5;Q04206;Q15744;Q15327;P05121;Q99684;Q8N7H5;Q9BQE4;Q9UBC1}

25991 Pathogen[ P14079] interacts with 17 human partners: {Q96KP6;Q9NRQ2;Q16873;Q06413;Q5EBM0;Q9BQE4;Q99684;Q9UBC1;Q6PD62;Q15744;Q9GZX7;Q8NFZ5;Q15327;Q8WUQ7;Q02556;Q6P1J9;Q8N7H5}

25992 Pathogen[ P03383] interacts with 12 human partners: {Q6P1J9;Q6PD62;Q9UBC1;Q9BQE4;Q99684;Q8WUQ7;Q15327;Q04206;Q02556;Q5EBM0;Q8NFZ5;Q8N7H5}

25993 Pathogen[ P03410] interacts with 19 human partners: {Q8WUQ7;Q04206;P05121;Q8NFZ5;Q6PD62;Q9NRQ2;Q99684;Q15327;Q9BQE4;Q9NRY6;Q02556;Q8N7H5;Q9UBC1;Q16873;Q96KP6;Q5EBM0;Q6P1J9;Q9GZX7;Q15744}

25994 Pathogen[ P14075] interacts with 12 human partners: {Q9BQE4;Q04206;Q15327;Q8NFZ5;Q02556;Q8N7H5;Q6P1J9;Q9UBC1;Q99684;Q6PD62;Q8WUQ7;Q5EBM0}

25995 Pathogen[ P0C206] interacts with 15 human partners: {Q6PD62;Q9UBC1;Q15744;Q15327;Q5EBM0;Q8NFZ5;Q8WUQ7;Q02556;Q9BQE4;Q9GZX7;Q8N7H5;Q04206;Q99684;P05121;Q6P1J9}

25996 Pathogen[ P03363] interacts with 11 human partners: {Q99684;Q04206;Q02556;Q15744;Q15327;Q8WUQ7;Q6P1J9;Q8NFZ5;Q9UBC1;Q8N7H5;Q6PD62}

25997 [Cluster 2364]GO:0048075+P biological\_process [name] positive regulation of eye pigmentation [def] "Any process that activates or increases the frequency, rate or extent of establishment of a pattern of pigment in the eye of an organism." [GOC

25998 Pathogen[ Q2Q067] interacts with 1 human partners: {Q9NQG7}

25999 Pathogen[ P0C214] interacts with 1 human partners: {Q9NQG7}

26000 Pathogen[ P03346] interacts with 1 human partners: {Q9NQG7}

26001 Pathogen[ Q85601] interacts with 1 human partners: {Q9NQG7}

26002 Pathogen[ P14079] interacts with 1 human partners: {Q9NQG7}

26003 Pathogen[ P03383] interacts with 1 human partners: {Q9NQG7}

26004 Pathogen[ P03410] interacts with 1 human partners: {Q9NQG7}

26005 Pathogen[ P14075] interacts with 1 human partners: {Q9NQG7}

26006 Pathogen[ P0C206] interacts with 1 human partners: {Q9NQG7}

26007 Pathogen[ P03363] interacts with 1 human partners:{Q9NQG7}

26008 [Cluster 2365]GO:0045070+P biological\_process [name] positive regulation of viral genome replication [def] "Any process that activates or increases the frequency, rate or extent of viral genome replication." [GOC

26009 Pathogen[ Q2Q067] interacts with 5 human partners:{P55265;Q15633;P11388;P54725;P09914}

26010 Pathogen[ P0C214] interacts with 5 human partners:{P09914;P55265;P54725;Q15633;P11388}

26011 Pathogen[ P03346] interacts with 6 human partners:{P55265;P11388;Q15633;P54725;O00482;P09914}

26012 Pathogen[ Q85601] interacts with 6 human partners:{P54725;P11388;Q15633;P55265;O00482;P09914}

26013 Pathogen[ P14079] interacts with 5 human partners:{P11388;P09914;O00482;P55265;O95292}

26014 Pathogen[ P03383] interacts with 3 human partners:{P54725;P55265;Q15633}

26015 Pathogen[ P03410] interacts with 6 human partners:{O95292;Q15633;P55265;P54725;P11388;P09914}

26016 Pathogen[ P14075] interacts with 3 human partners:{P55265;Q15633;P54725}

26017 Pathogen[ P0C206] interacts with 7 human partners:{P54725;P55265;O00482;O95292;Q15633;P11388;P09914}

26018 Pathogen[ P03363] interacts with 5 human partners:{P09914;Q15633;P55265;P54725;O00482}

26019 [Cluster 2366]GO:0009991+P biological\_process [name] response to extracellular stimulus [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an extracellular stimulus." [GOC

26020 Pathogen[ Q2Q067] interacts with 1 human partners:{P39019}

26021 Pathogen[ P0C214] interacts with 2 human partners:{P68133;P39019}

26022 Pathogen[ P03346] interacts with 1 human partners:{P39019}

26023 Pathogen[ Q85601] interacts with 2 human partners:{P68133;P39019}

26024 Pathogen[ P14079] interacts with 2 human partners:{P39019;P68133}

26025 Pathogen[ P03383] interacts with 1 human partners:{P39019}

26026 Pathogen[ P03410] interacts with 2 human partners:{P68133;P39019}

26027 Pathogen[ P14075] interacts with 1 human partners:{P39019}

26028 Pathogen[ P0C206] interacts with 2 human partners:{P68133;P39019}

26029 Pathogen[ P03363] interacts with 2 human partners:{P68133;P39019}

26030 [Cluster 2367]GO:0006412+P biological\_process [name] translation [def] "The cellular metabolic process in which a protein is formed, using the sequence of a mature mRNA molecule to specify the sequence of amino acids in a polypeptide chain. Translation is mediated by the ribosome, and begins with the formation of a ternary complex between aminoacylated initiator methionine tRNA, GTP, and initiation factor 2, which subsequently associates with the small subunit of the ribosome and an mRNA. Translation ends with the release of a polypeptide chain from the ribosome." [GOC

26031 Pathogen[ Q2Q067] interacts with 246 human partners:{O95363;Q5JNZ5;P23588;P05198;Q9HD33;Q7L2H7;P61313;Q99613;P62701;Q9HBB1;O00425;P82921;Q9BYD6;Q13084;P49458;Q9BZE1;P47914;P23381;Q9H3J6;P82933;P31749;P46779;Q96EL2;Q9BYD1;Q4U2R6;O00303;P49591;P82912;Q59GN2;O60841;P82932;Q9BY44;Q9Y3B7;Q02543;P26373;P29692;Q9Y676;O75394;Q96A35;Q9UBQ5;P62750;Q13889;P47813;P62273;Q9Y285;Q9Y2R9;Q13405;Q96GC5;Q6NVV1;P15880;P40429;P09132;Q9NWU5;P46782;Q9BRJ2;P35268;P24534;P22090;Q15046;P49770;P46778;Q9NSD9;P82663;P26641;Q9BYC8;Q9UGC7;P62888;Q9Y3D9;P32969;P62277;P56537;P62241;Q9P0M9;Q15025;O75570;P62244;P05387;Q5T653;Q9NVS2;Q14152;P62861;P42766;P05386;Q5T160;Q9Y291;Q9P0J6;P38935;Q96DP5;Q92905;P63241;Q6P1L8;Q969Q0;Q9Y262;Q14240;Q9UNX3;P30050;Q96I59;O43776;Q15629;Q8IXM3;Q9Y3D3;Q9Y2R5;P18077;P62891;Q13541;Q9BQ48;P61927;Q9Y399;P39023;P62081;P61247;Q9UHB9;P61254;Q9UI10;P62249;P62280;P83731;O15235;P62263;P60866;P62906;Q9BQC6;P41252;P52815;Q13310;Q14232;P82914;Q02878;P82914;Q02878;P46777;Q96E11;Q12904;Q7Z7F7;P62899;P78344;Q9NR50;P08708;P41567;Q96EH5;P08865;Q9NZE8;Q07020;P62913;Q9HD40;O14602;O60783;P62269;P60228;Q9NP92;Q9Y6G3;P07814;Q6IS14;P62424;P49366;P62917;P5772;P62829;P46783;Q8IYD1;O76021;Q9BYD3;P62495;P36578;Q9UKV8;P62857;Q9BYD2;Q9Y3D5;P62847;O75822;P49207;Q13144;Q13155;P23396;P54136;Q9H0U6;Q9H2K0;P20042;O60573;P63173;P18621;P82675;Q6PI48;Q9NRX2;Q86TS9;Q9HA77;Q658K8;P43897;P39019;Q9BW92;P41250;P82664;P61353;O15371;Q04637;Q96L21;Q9GZV4;P62266;P42677;Q9Y3U8;P63220;P62841;Q8NE71;P83881;P62987;P06730;P49589;Q9BZG8;P49406;Q9P015;Q13765;P50914;P46776;Q9H7H0;P11940;P82909;P62854;O43324;Q9P2J5;P09001;P62753;P05388;Q13542;Q8N983;P60842;P18124;P62851;P25398;Q15056;A6NKH3;P62910;Q92901;P68104;P46781;Q9BYC9;P14868;P27635;O75821;Q13888;O15372;Q13347;P61513;P41214;Q96T21;P62945;Q71UM5;Q9NX20;P62979}

26032 Pathogen[ P0C214] interacts with 277 human partners:{Q9HD33;P62861;P41250;Q13310;P84098;Q96A35;P61247;P60228;P49406;Q9HBB1;Q9Y399;Q13405;Q9UGC7;Q9Y3D5;Q9BYD2;P49589;Q96EL2;Q9BYD1;Q9NSE4;P15880;Q6IS14;P62081;P42766;Q12904;Q9UI10;Q7L3T8;P62913;P22090;Q95363;Q9UGM6;O60841;P82912;Q92901;P62249;Q9Y3D9;P62899;P62854;P39019;P62263;P60842;P82675;P49770;Q9Y262;P0C6E6;Q9H0U6;Q9BY44;Q96I59;Q16540;Q9NP81;P12081;P57772;Q9Y676;P23381;Q86TS9;P62273;O60739;Q9NP92;P23396;P18077;O15235;Q9GZV4;P05388;O15372;P49590;P07814;P62847;Q9BYD3;P23588;Q96GC5;O76021;Q9NX20;Q9Y285;P62829;P41252;P26373;Q14152;Q5JTZ9;Q9H7H0;P27635;P47813;P46778;Q9BTE6;Q8N5X7;P6P5R6;A6NMX2;Q99613;Q4U2R6;Q5JNZ5;Q9NWU5;O14602;Q8IXM3;Q96EH5;Q96DP5;O00425;O75821;P61513;P78344;Q7Z2W9;P29692;P83881;Q15056;O75394;Q5T653;P62701;Q71UM5;P49207;P11940;Q14232;P63220;P26641;P08865;P32969;Q5JPH6;Q02543;O43776;P62266;P38935;P09001;P632

41;Q15031;Q969Q0;P14868;Q13542;P82664;P49591;P82914;P15170;P62277;Q8N983;P50914;P49366;P46779;Q14197;Q59GN2;O00303;P40429;Q9P0J6;P41091;P47914;Q8NE71;P63173;P13639;Q13084;P56192;P46783;Q92905;P43897;Q9BQ48;P82663;P26639;Q9NR50;P82921;P62280;Q9UNX3;O75570;Q9Y3U8;Q6P1L8;P30050;P62753;P62910;Q13144;P62891;Q14240;Q8TD47;Q7L2H7;P54577;P82909;Q9NZE8;A2RTX5;P62495;Q13765;Q9Y6G3;P62269;Q15025;P41567;Q96T21;Q9H3J6;P46781;Q9Y291;Q9Y2R9;O43324;Q9HA77;Q8IYD1;P49588;A6NKH3;Q96GW9;Q9BYC9;P61254;Q9UKV8;P62841;P62244;Q9NRX2;P62987;Q7Z7F7;Q04637;Q9Y2R5;Q96E11;Q07020;P42677;P62945;Q075822;Q6NVV1;Q9P0M9;P46776;P05198;Q15629;Q9BQC6;P52815;P62241;P46777;P82932;P55884;P24534;Q13888;P83731;Q96L21;P35268;Q5T160;P47897;Q9UHB9;Q9BW92;P62424;Q6PI48;P60866;Q9BYC8;P62857;Q9H2K0;Q9HD40;P49458;P61313;P08708;Q9P015;B5ME19;P20042;Q9BZG8;P05387;P25398;Q9UBQ5;Q9NSD9;P26640;Q9BZE1;Q9Y3B7;Q15046;P61927;P62750;P62979;P05386;P09132;P62851;P06730;Q5ST30;P46782;P56537;P82933;P18124;Q05639;Q5VTE0;P31749;P61353;Q9BYD6;P36578;Q13155;Q9Y2Z4;Q9BRJ2;Q9Y3D3;O15371;P18621;Q13541;O60783;Q658K8;Q13347;P62906;O60573;Q02878;Q9P2J5;Q9NVS2;P41214}

26033 Pathogen[ P03346] interacts with 253 human

partners: {Q96A35;P41567;O60739;O76021;P23381;Q9NVS2;Q9HBB1;P05387;Q9Y399;P46779;Q9UGC7;B5ME19;Q13542;Q96EL2;P38935;Q9BYD1;P63173;Q5JNZ5;P06730;P62917;O75394;P62249;P62913;P49406;Q9P0J6;Q8N983;P62861;P82912;P62277;Q02878;P41091;P47813;P82933;Q9UBQ5;Q59GN2;Q9GZV4;P62280;P39023;P57772;Q9H3J6;P62987;P61927;Q9UNX3;P62857;O00425;Q9H0U6;Q13541;Q8IXM3;Q13347;P07814;O60841;P46778;P49207;Q8N5X7;Q15629;Q6P5R6;Q13888;P62266;Q9BYC8;P26641;P78344;P61254;Q9BQ48;P56537;O60573;P62495;Q71UM5;Q15056;Q5T653;P11940;P29692;Q96T21;P62424;P62273;O43776;P55884;Q9BYD2;P83731;P60866;P49458;P0CW22;P63241;P62899;Q969Q0;Q14152;P82909;O75821;P60842;Q9BYC9;Q6NVV1;P35268;P41252;P09132;O14602;P09001;P62891;P08708;Q13889;Q6IS14;O00303;Q8TD47;P46782;P41250;P61353;Q13155;P62854;Q9Y3D9;Q9Y3U8;O75570;P47914;Q12904;Q14232;Q9Y285;P43897;Q9Y2R5;P08865;Q96DP5;Q96L21;Q9NRX2;P60228;Q7Z7F7;O15235;P31749;P61313;P25398;Q13084;Q9P2J5;P82914;P60783;P61513;Q96E11;O43324;Q9NZE8;A6NKH3;P05388;Q9Y2R9;P62269;Q6P1L8;Q15025;Q02543;P42766;P62081;Q7L2H7;P49366;P61247;Q9BYD3;Q14240;P54136;Q9HD33;P49770;Q9NNU5;P18621;Q8IYD1;Q9Y676;P46781;Q9HD40;P82921;P84098;Q969K4;P15880;Q9UKV8;P14868;P50914;P49589;Q9Y6G3;P62829;P62979;Q9Y3D5;Q99613;P24534;Q92905;O75822;P39019;Q9BYD6;P23588;Q9Y3D3;Q9H7H0;P23396;Q9BY44;Q4U2R6;P42677;P62750;Q96EH5;P62701;Q9BQC6;P30050;P82914;P60783;P61513;Q9NE71;Q9BRJ2;Q9BZE1;P82675;P62847;Q13405;Q9UHB9;P62851;Q6PI48;Q13310;P22090;Q9H2K0;Q04637;Q92616;A6NMX2;P46777;P82663;P52815;Q9BZG8;O15371;Q07020;P62263;P82664;P62841;Q658K8;P83881;P82932;P41214;P05386;P18077;Q13144;P20042;Q7Z2W9;P46776;P62241;Q13765;Q9Y291;Q9NR50;P62753;O15372;P62945;Q92901;P32969;P26373;Q9UI10;P18124;P40429;P27635;P68104;Q9P015;Q7Z7H8;P46783;Q9Y3B7;Q9Y262;Q96GC5;P62906;Q9P0M9;P62244;Q9NX20;P62888;P0C6E6;P63220;P05198}

26034 Pathogen[ Q85601] interacts with 246 human

partners: {P46783;P32969;P61513;Q9HBB1;P26373;P62857;P52815;P62244;P09001;Q9BQC6;Q96EL2;Q9BYD1;P54136;O43324;Q9NSD9;P62913;P62854;P31749;P82912;P62081;P26639;Q6P5R6;P14868;P61353;Q96A35;P62891;P46776;P47813;P82933;P18077;P61313;P41091;Q9Y2R5;Q9Y3D5;Q99613;P49406;P05388;Q9UBQ5;Q9GZV4;P62495;Q9NP92;Q5VTE0;A6NKH3;Q9Y3B7;Q15629;P57772;P49589;Q4U2R6;P06730;Q14240;Q9HD40;P63173;P38935;Q9H0U6;Q9P2J5;Q13310;P23588;Q9NX20;Q96E11;P82921;Q13888;Q13155;P07814;P23396;P62273;Q96T21;P46778;P62829;Q8N5X7;P30050;P62753;P27635;Q9BYC9;Q04637;P82932;P23381;P15880;Q9P0M9;Q9BQ48;Q96537;P83881;Q07020;Q9BY44;P39019;Q658K8;P26641;Q5T653;Q9Y3U8;Q71UM5;Q9NR50;P62701;P62241;P82675;P62424;Q15046;O43776;Q9Y3D9;O00303;P83731;P63241;Q9BYD2;P62899;Q9BW92;P20042;Q13144;P62945;Q9Y285;P49770;Q9H7H0;P24534;P62263;Q9P015;Q13541;P62861;Q02878;Q9BYD6;Q9HA77;P39023;P61254;O15371;Q9Y2R9;P41250;Q13405;B5ME19;Q9Y3D3;Q5T160;P49207;P60228;O75570;P11940;Q96GC5;Q9Y291;P62910;Q9Y6G3;Q9NRX2;Q8N983;P82909;Q9H3J6;O15235;P62249;P62280;P15170;P47914;P84098;Q96L21;Q7Z7F7;Q13084;P08708;O75394;P42766;Q9NZE8;A2RTX5;O60573;Q13765;Q9NVS2;P62269;Q92905;P68104;Q15025;Q9Y262;Q9BZG8;Q9BYD3;Q9NNU5;Q9UGC7;P18621;Q8IYD1;Q9Y676;P05387;O00425;P78344;Q9BRJ2;Q96I59;Q9UNX3;P60842;Q9UKV8;P62277;P35268;P43897;P62979;Q7L2H7;Q13347;P62847;O75822;Q8NE71;P41567;Q9HD33;O14602;O95363;Q14152;P05198;P26641;P78344;Q96EH5;Q8IXM3;Q867S9;Q8BZE1;P46782;P47897;Q9UHB9;O60783;Q6PI48;P46779;P62750;P62851;P62841;O15372;P62987;P82663;P22090;P41252;P82664;P61927;P29692;P36578;P41214;P05386;P82914;O76021;P08865;Q9Y399;P61247;Q14232;Q05639;Q9P0J6;O75821;P09132;Q5JNZ5;P46777;P62917;Q92901;Q9UI10;P18124;P46781;Q6NVV1;P25398;P60866;Q02543;P62906;P50914;Q6IS14;P62266;P40429;Q13542;P62888;Q6P1L8}

26035 Pathogen[ P14079] interacts with 287 human

partners: {Q15629;Q9Y3U8;Q9BQC6;P27635;Q8IXM3;P52815;P84098;P46779;A6NKH3;Q7L2H7;Q9BYD6;A6NMX2;Q9Y285;Q7Z7F7;P20042;P23381;P26639;Q9UKV8;P26373;Q4U2R6;P09132;P60842;O14602;P23396;Q96GW9;Q9P2J5;Q15056;Q6NVV1;P60468;P40429;O75879;Q7L3T8;Q9BTE6;O00303;Q9BW92;O43716;Q9H0R6;Q96E11;O75821;P06730;Q13765;O60739;Q9UI10;P54136;Q9H2K0;P18621;Q658K8;P47813;Q9H0U6;P83881;Q15031;P68104;Q5T160;P41567;Q9BY44;Q9UNX3;P82664;P46781;P83731;P61513;P62847;Q6IS14;P41091;P39656;P62753;P56537;P82933;Q9BQ48;P57772;P26641;P39023;P62273;Q9Y2R9;Q9BYD2;Q5ST30;Q9BYC9;O43432;P25398;P62495;Q9BRJ2;Q9NP81;Q9H3J6;P47897;O95363;P49591;P43307;Q9Y6G3;A2RTX5;Q9NRX2;P18077;Q9Y291;O75570;P14868;Q16540;P46783;Q13310;P05198;P61254;P50914;Q7Z2W9;P46199;P04844;Q13889;Q15025;P62979;P62841;P18124;Q14240;P42766;P62266;Q9Y2R5;P29692;O15371;P46782;P62987;Q5JNZ5;O60783;Q9HA77;Q13144;P62241;Q13541;Q8IYD1;P78344;P23588;Q9Y3D3;P32969;P22090;Q9P0M9;O43776;Q5JPH6;P62829;O60573;B5ME19;P60866;P43897;Q96RP9;P62854;Q9NR50;Q13888;Q07020;P39019;Q13084;Q9BZE1;Q96T21;P63220;P49207;Q96L21;P49589;P62244;P82921;Q15046;P09001;Q96A35;P24534;P62263;Q02543;P62424;Q92901;P62277;O75822;P11940;P62750;P62910;Q86TS9;P63173;P49458;Q96GC5;P41252;P46776;Q9BYD3;P82912;O76021;Q8NE71;P08708;Q99613;Q9HBB1;P41250;Q8N5X7;Q96I59;Q92616;P36578;P26640;P0CW22;Q9BYD1;P13639;P56192;Q9NSD9;Q71UM5;Q9BYC8;Q92905;O152

35;P60059;P62906;P47914;P62280;Q6P5R6;Q969S9;Q9UGC7;Q9Y262;P62899;Q9Y2Z4;Q9NP92;Q13405;Q9BZG8;P63241;Q13542;P61353;P62081;P62945;Q9NX20;P46777;Q8N442;P42677;P30050;Q9P015;O60841;P15880;Q59GN2;O75394;Q7Z7H8;P62891;P82909;Q9UGM6;Q9H7H0;P82675;Q9NZE8;Q9HD33;P62888;P08865;Q9NSE4;Q13155;P38935;P61927;P62917;Q9Y3B7;Q9P0J6;P46778;P62249;Q12904;O00425;Q13347;Q9Y676;Q969Q0;Q14197;P05386;P49588;P35268;Q14232;P62913;Q9HD40;P41214;Q6PI48;Q8N983;Q9NVS2;P05387;Q9UBQ5;P61247;P62269;P62701;Q9UHB9;P51571;Q9GZV4;P61313;Q5T653;P82663;Q14152;Q8TD47;Q96EL2;P07814;O43324;Q96DP5;P62851;Q96P1L8;P0C6E6;P49411;P05388;Q04637;Q96EH5;O15372;Q9Y3D5;P49366;P62857;P55884;P62861;Q9Y3D9;P82914;P49406}

26036 Pathogen[ P03383] interacts with 249 human partners: {P42766;P36578;P05388;Q9HBH1;P62266;Q9Y285;P39019;P26373;Q9H3J6;Q96EL2;Q9BYD1;P62913;P62945;Q12904;Q9P2J5;P62854;P40429;P82912;Q9BYD2;P14868;Q96A35;P62987;P62891;P25398;Q9HD40;Q13084;Q658K8;P62280;P82664;Q07020;P49458;P62750;Q9BRJ2;O15371;P05387;Q9BQ48;P62249;P62888;P57772;P62899;Q9UBQ5;P60228;P61927;P24534;A6NKH3;Q8NE71;Q13888;P46777;P46779;P41567;P49207;Q9P0J6;P31749;Q9NX20;Q5JPH6;P56537;P49589;P83731;P62424;Q5T160;Q92905;P49406;Q9UI10;Q15031;P18124;P82933;P46778;Q92901;P62753;Q9BQC6;Q9NP81;Q9Y262;Q9GZV4;P42677;Q9NWU5;P61247;Q9BYC9;Q5JNZ5;P83881;P09001;P26641;Q9BYD3;P47914;Q5T653;O60841;Q9P0M9;Q71UM5;Q9Y2R9;Q96T21;P11940;Q14152;P62917;Q9NP92;P82914;Q13405;P62273;O60573;Q9UNX3;Q9BZE1;P63241;Q96L21;O43324;P09132;Q969Q0;Q13155;Q9NRX2;P30050;P84098;Q9Y6G3;O75394;Q9BY44;O14602;Q13542;P32969;Q9NVS2;P20042;P49366;P82675;P62277;Q9BTE6;O75570;Q13144;Q9BYD6;P18077;Q6P1L8;P23588;P06730;P63173;Q9Y3D9;Q9NR50;Q15629;O60783;P62081;Q9Y2R5;P23381;Q9Y3B7;Q13541;P61313;P08865;Q96I59;P82909;P82663;P62851;P62495;P47813;P46782;Q15046;Q9HD33;Q9NZE8;A2RTX5;P41214;Q9H2K0;Q13765;P62269;Q9P015;P68104;Q15025;P63220;P05198;Q02543;P62244;Q02878;Q9Y224;O95363;Q7L2H7;P07814;P49770;Q9UGC7;Q9Y3D5;Q8IYD1;Q96GW9;Q86TS9;P82921;P78344;P62910;P27635;Q9UKV8;Q8IXM3;Q9HA77;P43897;P62857;Q99613;P82932;O75822;P62906;P46783;Q9Y3U8;P60866;Q04637;P52815;P61254;P62979;Q96DP5;P62241;Q7Z7F7;P46781;Q14232;Q96EH5;Q13347;Q96E11;P39023;O43776;Q9UHB9;Q6PI48;Q13310;P38935;P62841;O00425;Q6NVV1;P22090;P41250;P62701;P62829;Q9Y676;P29692;P62263;P62847;P35268;Q4U2R6;P41252;P54136;P05386;P50914;O15235;Q9Y291;Q9NSD9;P49591;Q9Y399;P62861;Q7L3T8;P18621;O15372;P46776;Q96GC5;O75821;P15880;P23396;Q8N983;Q9Y3D3;P61513;Q59GN2;Q9BZG8;Q9BYC8;O76021;Q9H0U6;P08708;Q9BW92;P61353}

26037 Pathogen[ P03410] interacts with 292 human partners: {P62861;Q96DP5;Q96T21;P05386;Q9Y399;Q7Z7F7;Q02543;P61247;P62241;Q9Y285;P62829;P49207;Q9HA77;P26373;P82663;Q9HD33;P61513;Q9NR50;P82909;P68104;Q13155;P62899;Q9NSE4;P56192;Q9P015;Q13889;Q8NE71;P0CW22;Q9P0M9;Q9BTE6;Q9UHB9;Q9UKV8;Q9UHB9;P62244;Q9H7H0;O60841;P62913;O75822;Q16540;P60468;P60059;Q02878;Q9NX20;O75879;Q92901;P11940;P49589;Q5ST30;B5ME19;O15372;P15880;P46777;P46776;Q9HBH1;P62841;P82675;Q5JNZ5;P30050;P05388;Q9BW92;Q8N983;O15235;P06730;P46781;P18124;P49588;P54136;Q96A35;Q9H2K0;P20042;Q96RP9;P49406;P23381;P46199;Q92905;Q9BYD2;P62269;Q07020;P63220;Q7L3T8;O43776;P62910;P62847;Q59GN2;P62906;Q9P0J6;Q7L2H7;P31749;P52815;Q9NP92;P23396;Q14232;Q969S9;P18621;P62266;Q9NWU5;P62249;P63173;P50914;Q969Q0;P47897;P62280;Q96EH5;Q9BQC6;Q15025;P14868;O43432;P22090;P13639;Q9BYD6;P61313;P62979;Q99613;P47813;Q9Y3D5;Q13541;Q14152;Q9BYD3;P41214;P62701;P49770;Q12904;P62750;Q9NSD9;O60783;P82664;Q969K4;Q96E11;Q8N442;Q9P2J5;P41567;P55884;P08865;Q96L21;P49591;Q9UNX3;P62277;O15371;Q9Y676;P36578;Q9BYD1;P18077;P25398;P38935;P43307;P61927;P84098;Q4U2R6;P62854;P62273;P26639;Q9NRX2;P09132;Q9BTE6;P15170;O60739;P0C6E6;P62081;P46783;P62495;Q96I59;Q8TD47;Q6NVV1;Q15056;Q9BRJ2;P49366;Q15629;Q9UGC7;Q9Y3U8;Q13084;P41250;Q14197;Q6P1L8;Q9Y291;P08708;Q9Y2R9;P46782;P32969;Q658K8;Q9H0R6;Q15046;Q9Y6G3;O14602;Q13542;Q9BQ48;Q8IXM3;P60842;O43324;O00303;Q5T653;P82912;Q92616;P04844;Q9H3J6;Q5JPH6;P46779;P27635;Q96EL2;Q9NZE8;Q8IYD1;P57772;Q13888;O60573;O75821;Q9HD40;P62987;Q9UGM6;P41252;Q9BY44;Q9Y3D9;Q7Z2W9;O00425;P62753;P78344;Q9P5R6;Q9UBQ5;P23588;Q9UI10;Q13405;Q71UM5;P49411;Q9BZE1;Q14240;P43897;O75394;P83881;Q9H0U6;P60866;Q13144;P42677;Q9Y3D3;Q6IS14;Q96GC5;P05198;Q9Y3B7}

26038 Pathogen[ P14075] interacts with 255 human partners: {Q9Y2Z4;P42766;P54136;Q9HBH1;Q9H7H0;P49207;P09132;Q9UGC7;P62857;P52815;P46781;Q9BRJ2;P63220;O76021;P32969;Q96EL2;Q9BYD1;Q9BYD6;Q9NRX2;P62495;Q9BYD2;P42677;Q13155;P62913;P82921;P22090;O60841;Q9P0M9;P56537;P20042;Q02878;P82912;Q96L21;Q9Y3D9;P41250;P62277;O15372;Q96GC5;Q7L2H7;P23381;Q658K8;P62851;Q13542;P68104;Q59GN2;P57772;P23588;P08865;P62244;P49406;Q9BQC6;Q9Y2R5;Q9NX20;Q96E11;P08708;Q9NSD9;P61254;P46778;O75394;P38935;P05388;P41252;P26641;P78344;Q9Y3D3;Q96T21;Q9HD33;P83881;Q99613;O75821;O95363;Q5T653;P46777;Q6P1L8;P29692;Q9GZV4;Q9Y3U8;P62249;Q9BZG8;P06730;P62081;Q15629;P63241;P62750;P18621;Q969Q0;Q9Y3D5;Q02543;Q9UI10;Q9BYC9;P18124;Q9UNX3;P25398;Q9BQ48;Q96GW9;Q9BZE1;Q13084;P47813;Q9HA77;Q9NP81;P05198;O15371;P49366;P82909;Q9Y3B7;Q9Y2R9;Q13405;Q9Y676;Q9Y285;P11940;P60228;P63173;Q9NWU5;P30050;Q9H2K0;P31749;O15235;Q9BTE6;P62979;P43897;Q13310;Q9Y399;O60573;P83731;P49458;P84098;Q8N983;Q7L3T8;O60739;Q14232;Q9HD40;P56192;P61247;O60783;P62753;P46782;P62891;P62861;Q13889;Q12904;Q96A35;P18077;P82664;P46779;P62917;P39023;Q9NZE8;A2RTX5;P41214;Q04637;P50914;Q13765;Q6NVV1;P62269;P62847;Q9BW92;P62910;O43776;P62273;Q15025;Q9P015;Q86TS9;P40429;P82663;P23396;P62241;Q9Y291;P15880;Q8NE71;P49770;P62987;Q8IYD1;O14602;P14868;P82914;Q5T160;Q9P2J5;Q9UKV8;P62841;P36578;Q5JNZ5;P62266;P82932;Q9Y262;Q13347;Q13836;P61513;P27635;P62888;Q9H0U6;Q92901;Q8IXM3;P26639;P35268;Q9NR50;Q9UHB9;P62945;Q6PI48;P46776;Q96EH5;P09001;Q9BYD3;Q96I59;P46783;Q7Z7H8;Q4U2R6;P62701;Q13144;Q9NP92;Q9BYC8;P49589;P62899;O00425}

- 25;O43324;Q5JPH6;P82933;P47914;P62906;P41567;Q15046;Q7Z7F7;Q9UBQ5;P05386;Q92905;P61353;P39019;P62424;Q9NSE4;Q9BY44;Q15031;P24534;P62829;P62280;P49591;Q9P0J6;O75570;Q13541;Q07020;P62263;Q96DP5;P62854;P60866;P82675;P26373;P07814;P05387;Q9Y6G3;Q14152;A6NKH3;Q9NVS2;Q71UM5;P61927;Q13888}
- 26039 Pathogen[ P0C206] interacts with 273 human partners: {P49589;O95363;P41091;Q6P1L8;Q7L2H7;P09132;P40429;P61313;Q9NSE4;Q96A35;O43324;Q13541;P07814;Q9Y291;Q9Y3D5;Q99613;Q9Y399;Q96L21;P27635;Q9GZV4;P20042;P18124;Q6IS14;Q8IXM3;Q7Z2W9;P38935;P31749;P62854;Q9H0U6;Q9Y2Z4;Q96EL2;P49207;Q9BQ48;P62081;Q9Y3D3;Q9P015;P30050;P39656;O14602;O60783;P82914;Q9UGC7;Q13084;P41252;Q6PI48;P62241;Q4U2R6;P62244;P50914;Q9BYC8;P08865;Q5ST30;P62750;P18621;P46781;P62266;Q02543;Q14232;P41567;Q658K8;Q7Z7H8;Q9Y676;P09001;Q9HD40;Q07020;Q9P0M9;P83881;Q8IYD1;P46778;A2RTX5;Q9UGM6;P62263;Q5JPH6;Q9NP81;P62273;Q02878;Q9HA77;Q9P0J6;Q9UKV8;Q9NWU5;Q5T653;P62495;Q9NRX2;P62280;P41250;P49406;P26641;Q6P5R6;Q9H3J6;P62857;P62851;Q9Y6G3;P62910;P26640;Q9NR50;P46782;P49591;Q9NZE8;P06730;P61247;Q9HD33;O43776;Q13144;P18077;Q92616;Q9BRJ2;P62913;P61927;P61353;P62888;P49366;Q6NVV1;O75394;P82664;Q15025;P43897;P36578;P60228;P49770;Q96GC5;Q9NVS2;P62861;P05198;Q9Y285;O60841;Q13888;Q8N5X7;Q9NSD9;Q13542;Q13310;Q9BYC9;P35268;P23396;P39023;Q9Y2R9;P32969;Q13405;P82909;O76021;P62701;Q9BTE6;P05386;Q9Y3B7;Q86TS9;P22090;O60739;Q9H2K0;B5ME19;Q9BYD6;P84098;P62945;Q9BYD2;P26373;Q71UM5;Q14152;P46777;P05388;Q9UI10;P62979;P57772;A6NMX2;Q5T160;Q9BW92;O15371;P62899;P82933;P47813;P56537;P83731;Q9Y3D9;Q9BZG8;P82663;P82675;P39019;Q92901;P05387;P46783;P56192;P42766;P60866;Q9NP92;Q14240;P62841;Q8NE71;Q96E11;P63241;Q9UNX3;Q9BZE1;P54136;P23588;Q13889;Q969Q0;P61513;P24534;P78344;P49458;Q13155;P26639;A6NKH3;Q9BYD1;Q15629;Q9BY44;P62277;Q9UHB9;P0C6E6;O60573;Q15031;Q14197;P46776;Q8N983;P62906;P41214;Q9H7H0;Q04637;P63173;P82932;P62987;Q9Y2R5;O75821;Q7L3T8;P62891;P62269;Q9P2J5;P29692;P62753;O75570;Q9HBH1;Q13347;P46779;P63220;P60842;Q5JNZ5;P15880;Q9NX20;Q96EH5;P25398;O00303;P08708;Q13765;P23381;P11940;Q96DP5;Q7Z7F7;P47914;P68104;O15235;Q9BQC6;P47897;P14868;P62847;Q9Y262;P61254;P82912;O15372;Q96GW9;Q12904;O75822;Q96T21;P42677;P62829;Q96I59;P52815;O00425;Q9BYD3;Q15046;P62249;P62424;P82921;Q59GN2;Q92905;Q9Y3U8;Q9UBQ5;P62917}
- 26040 Pathogen[ P03363] interacts with 257 human partners: {P62913;Q9Y2Z4;P43897;Q9Y2R5;Q9BYD2;P09132;O60739;P18621;P05386;Q9HD40;Q9GV4;O15371;P62750;P23396;P42677;Q9Y7H0;P63173;P08865;Q96GC5;P41252;P62847;O75570;P18077;P82664;P05387;Q96EL2;Q9NSD9;Q9BY44;P84098;P42766;Q9NZE8;A2RTX5;P62249;Q9BYD1;P82921;P05388;O60841;P36578;P49406;Q13347;P62753;P62081;A6NKH3;P62910;Q96I59;Q8IXM3;P14868;Q13888;P61513;P49589;P46776;Q13405;Q9UI10;Q9BYD3;P41250;P82914;P61254;Q9P0J6;P62273;Q9UHB9;P32969;Q92901;Q8IYD1;P46778;Q15056;Q9NVS2;Q9Y3D5;P61927;O14602;Q9UBQ5;O00425;P62891;P52815;Q14152;Q6P5R6;Q59GN2;Q9UKV8;P61353;P47897;P49366;Q5JPH6;Q96A35;O43376;Q9BZE1;P08708;Q13765;P15880;P11940;Q96L21;Q7Z7F7;P23381;Q96T21;O15372;Q9H0U6;P41091;P41567;P23588;P57772;Q9HD33;P62495;P05198;Q9Y3B7;P26373;Q13155;Q4U2R6;Q9NX07;P83881;Q96EH5;O76021;Q9BRJ2;Q9NWU5;P22090;P62861;P62841;Q9UNX3;Q9NR50;O75394;P54136;P30050;P82912;Q8N5X7;P62829;P26641;P82663;Q14240;P46782;P35268;Q9NRX2;P29692;Q9BTE6;P31749;Q9Y6G3;Q6PI48;Q9BYC8;P20042;P46781;P47813;P50914;Q13310;A6NMX2;Q9P0M9;P56537;Q9Y2R9;P63220;Q7L2H7;Q9Y3D9;P61313;P39019;Q9NX20;P46779;Q5T653;Q02543;P46777;P62987;Q8N983;Q7Z7H8;O95363;O60783;P25398;Q9NP92;B5ME19;P09001;P82675;Q5JNZ5;P82933;Q9H3J6;P49770;P60228;P83731;P62851;P62280;Q9P2J5;Q71UM5;Q9Y3U8;P62888;P49458;P41214;P63241;P60842;Q969Q0;Q9BW92;Q92616;Q9Y676;P49591;P62244;P62277;P62906;Q15025;Q9Y285;Q8NE71;P62266;P62945;P49207;P62241;Q9BQC6;P62424;Q7L3T8;P60866;Q9Y262;P61247;P24534;O60573;Q13144;Q9P015;Q9BZG8;Q15031;Q9Y3D3;Q13084;P62899;P62857;Q02878;P82909;Q6IS14;Q13541;O75821;Q6NVV1;P07814;P78344;Q07020;P0C6E6;P39023;P82932;Q9BQ48;Q86TS9;P62854;Q9Y399;O15235;P62917;Q7Z2W9;P55884;Q9BYC9;P18124;P40429;Q5T160;P27635;Q96E11;P06730;P62263;O43324;P47914;Q9Y291;P38935;P62701;Q658K8;Q92905;P68104;Q8TD47;Q9BYD6;O75822;P62269;Q13542;P46783;Q99613;Q04637;O00303;Q9UGC7;Q6P1L8}
- 26041 [Cluster 2368]GO:0006493+P biological\_process [name] protein O-linked glycosylation [def] "A protein glycosylation process in which a sugar unit is added to a protein via the hydroxyl group of peptidyl-serine, peptidyl-threonine, peptidyl-hydroxylysine, or peptidyl-hydroxyproline, or via the phenol group of peptidyl-tyrosine, forming an O-glycan." [ISBN
- 26042 Pathogen[ Q2Q067] interacts with 2 human partners: {O60296;Q9UPV9}
- 26043 Pathogen[ P0C214] interacts with 2 human partners: {Q9UPV9;O60296}
- 26044 Pathogen[ P03346] interacts with 2 human partners: {O60296;Q9UPV9}
- 26045 Pathogen[ Q85601] interacts with 2 human partners: {Q9UPV9;O60296}
- 26046 Pathogen[ P14079] interacts with 4 human partners: {Q9H488;O60296;Q8NBL1;Q5NDL2}
- 26047 Pathogen[ P03383] interacts with 2 human partners: {O60296;Q9UPV9}
- 26048 Pathogen[ P03410] interacts with 3 human partners: {Q9UPV9;O60296;Q9H488}
- 26049 Pathogen[ P14075] interacts with 2 human partners: {O60296;Q9UPV9}
- 26050 Pathogen[ P0C206] interacts with 2 human partners: {Q9UPV9;O60296}
- 26051 Pathogen[ P03363] interacts with 2 human partners: {Q9UPV9;O60296}
- 26052 [Cluster 2369]GO:0042984+P biological\_process [name] regulation of amyloid precursor protein biosynthetic process [def] "Any process that modulates the frequency, rate or extent of the chemical reactions and pathways resulting in the formation of amyloid precursor protein (APP), the precursor of beta-amyloid." [GOC
- 26053 Pathogen[ Q2Q067] interacts with 1 human partners: {Q96P71}
- 26054 Pathogen[ P0C214] interacts with 1 human partners: {Q96P71}
- 26055 Pathogen[ P03346] interacts with 1 human partners: {Q96P71}
- 26056 Pathogen[ Q85601] interacts with 1 human partners: {Q96P71}
- 26057 Pathogen[ P14079] interacts with 1 human partners: {Q96P71}
- 26058 Pathogen[ P03383] interacts with 1 human partners: {Q96P71}



26059 Pathogen[ P03410] interacts with 1 human partners:{Q96P71}

26060 Pathogen[ P14075] interacts with 1 human partners:{Q96P71}

26061 Pathogen[ P0C206] interacts with 1 human partners:{Q96P71}

26062 Pathogen[ P03363] interacts with 1 human partners:{Q96P71}

26063 [Cluster 2370]GO:0060644+P biological\_process [name] mammary gland epithelial cell differentiation [def] "The process in which a relatively unspecialized epithelial cell becomes a more specialized epithelial cell of the mammary gland." [GOC

26064 Pathogen[ Q2Q067] interacts with 7 human partners:{P31749;O14896;P17676;Q9H7S9;Q9UKW6;P20719;P16455}

26065 Pathogen[ P0C214] interacts with 6 human partners:{Q9UKW6;P17676;O14896;P16455;P31749;Q9H7S9}

26066 Pathogen[ P03346] interacts with 6 human partners:{P17676;P20719;P31749;Q9H7S9;O14896;Q9UKW6}

26067 Pathogen[ Q85601] interacts with 6 human partners:{O14896;P17676;P31749;Q9H7S9;P16455;Q9UKW6}

26068 Pathogen[ P14079] interacts with 5 human partners:{P31751;O14896;P16455;Q9H7S9;Q9UKW6}

26069 Pathogen[ P03383] interacts with 5 human partners:{Q9UKW6;P31749;O14896;P17676;Q9H7S9}

26070 Pathogen[ P03410] interacts with 6 human partners:{O14896;P17676;P31749;Q9UKW6;P16455;Q9H7S9}

26071 Pathogen[ P14075] interacts with 5 human partners:{P31749;O14896;Q9UKW6;Q9H7S9;P17676}

26072 Pathogen[ P0C206] interacts with 7 human partners:{P31749;Q9H7S9;P17676;O14896;Q9UKW6;P20719;P16455}

26073 Pathogen[ P03363] interacts with 6 human partners:{O14896;P17676;Q9H7S9;Q9UKW6;P20719;P31749}

26074 [Cluster 2371]GO:0010748+P biological\_process [name] negative regulation of plasma membrane long-chain fatty acid transport [def] "Any process that decreases the rate, frequency or extent of plasma membrane long-chain fatty acid transport. Plasma membrane long-chain fatty acid transport is the directed movement of long-chain fatty acids across the plasma membrane." [GOC

26075 Pathogen[ Q2Q067] interacts with 1 human partners:{P31749}

26076 Pathogen[ P0C214] interacts with 1 human partners:{P31749}

26077 Pathogen[ P03346] interacts with 1 human partners:{P31749}

26078 Pathogen[ Q85601] interacts with 1 human partners:{P31749}

26079 Pathogen[ P14079] interacts with 1 human partners:{P31751}

26080 Pathogen[ P03383] interacts with 1 human partners:{P31749}

26081 Pathogen[ P03410] interacts with 1 human partners:{P31749}

26082 Pathogen[ P14075] interacts with 1 human partners:{P31749}

26083 Pathogen[ P0C206] interacts with 1 human partners:{P31749}

26084 Pathogen[ P03363] interacts with 1 human partners:{P31749}

26085 [Cluster 2372]GO:0030183+P biological\_process [name] B cell differentiation [def] "The process in which a precursor cell type acquires the specialized features of a B cell. A B cell is a lymphocyte of B lineage with the phenotype CD19-positive and capable of B cell mediated immunity." [GO\_REF

26086 Pathogen[ Q2Q067] interacts with 17 human partners:{Q96SD1;P56524;P55895;Q9UKV0;P41182;P12980;Q02447;Q9H9Q4;P28069;Q9UQL6;Q9GZX7;P27986;Q9NP87;P55327;P15923;P10242;P53567}

26087 Pathogen[ P0C214] interacts with 18 human partners:{P53567;Q9H9Q4;Q8WV28;Q96SD1;P56524;P55895;P15923;Q9UKV0;P41182;P28069;P10242;Q02447;P55327;Q9GZX7;Q9NP87;P27986;Q9UQL6;P12980}

26088 Pathogen[ P03346] interacts with 21 human partners:{Q99612;Q96SD1;P55327;P55895;P15923;P56524;Q9H165;Q9UBC0;P12980;P10242;P41182;Q9UKV0;Q9H9Q4;P28069;P53567;Q8WV28;Q9NP87;Q8TAU0;Q02447;Q9UQL6;P27986}

26089 Pathogen[ Q85601] interacts with 17 human partners:{Q9UKV0;Q9UQL6;P53567;P12980;P28069;Q9GZX7;P10242;P27986;Q96SD1;Q99612;P15923;Q02447;P56524;Q9NP87;P41182;P55895;Q9H9Q4}

26090 Pathogen[ P14079] interacts with 18 human partners:{Q9UQL6;P55327;P20809;P53567;Q9H9Q4;Q9UKV0;Q02447;P15923;Q99612;P28069;Q9GZX7;P41182;P12980;Q8WV28;Q9NP87;Q96SD1;P10242;P56524}

26091 Pathogen[ P03383] interacts with 12 human partners:{P27986;P28069;Q9UQL6;Q9H9Q4;P15923;P12980;Q02447;P55895;P10242;Q9UKV0;P56524;P53567}

26092 Pathogen[ P03410] interacts with 19 human partners:{Q9UKV0;P28069;P27986;Q02447;P10242;P53567;Q8WV28;P20809;P55895;Q96SD1;P15923;Q9UQL6;P56524;P55327;Q9GZX7;P41182;P12980;Q9NP87;Q9H9Q4}

26093 Pathogen[ P14075] interacts with 14 human partners:{P28069;P55327;P53567;P56524;Q9UKV0;P10242;P15923;Q9H9Q4;P27986;Q02447;P20809;P12980;Q9UQL6;P55895}

26094 Pathogen[ P0C206] interacts with 23 human partners:{P53567;P41182;Q9UKV0;P10242;Q9UBC0;P12980;P55327;Q96SD1;P27986;Q9H9Q4;Q99612;Q9GZX7;P15923;Q02447;P55895;Q9H165;Q9NP87;P20809;Q13422;P56524;P28069;Q8TAU0;Q9UQL6}

26095 Pathogen[ P03363] interacts with 17 human partners:{Q9UBC0;P53567;Q02447;Q8WV28;Q99612;Q9UQL6;P15923;P28069;Q9UKV0;Q9H9Q4;Q9NP

87;P10242;P12980;P55895;Q8TAU0;P27986;P55327}

26096 [Cluster 2373]GO:0010224+P biological\_process [name] response to UV-B [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a UV-B radiation stimulus. UV-B radiation (UV-B light) spans the wavelengths 290 to 320 nm." [GOC

26097 Pathogen[ Q2Q067] interacts with 5 human partners:{Q04206;P05114;Q03468;Q01831;P07476}

26098 Pathogen[ P0C214] interacts with 5 human partners:{P07476;Q04206;Q01831;P05114;Q03468}

26099 Pathogen[ P03346] interacts with 5 human partners:{P05114;Q04206;P07476;Q03468;Q01831}

26100 Pathogen[ Q85601] interacts with 4 human partners:{Q01831;Q03468;Q04206;P05114}

26101 Pathogen[ P14079] interacts with 5 human partners:{P05114;P07476;P29459;Q03468;Q01831}

26102 Pathogen[ P03383] interacts with 5 human partners:{Q01831;Q03468;P07476;P05114;Q04206}

26103 Pathogen[ P03410] interacts with 6 human partners:{Q04206;Q03468;Q01831;P05114;P29459;P07476}

26104 Pathogen[ P14075] interacts with 5 human partners:{Q04206;Q01831;Q03468;P07476;P05114}

26105 Pathogen[ P0C206] interacts with 5 human partners:{P05114;Q03468;Q04206;Q01831;P07476}

26106 Pathogen[ P03363] interacts with 5 human partners:{Q04206;Q01831;P05114;P07476;Q03468}

26107 [Cluster 2374]GO:0050729+P biological\_process [name] positive regulation of inflammatory response [def] "Any process that activates or increases the frequency, rate or extent of the inflammatory response." [GOC

26108 Pathogen[ Q2Q067] interacts with 2 human partners:{P21980;Q15025}

26109 Pathogen[ P0C214] interacts with 3 human partners:{P05121;Q15025;P21980}

26110 Pathogen[ P03346] interacts with 2 human partners:{P21980;Q15025}

26111 Pathogen[ Q85601] interacts with 3 human partners:{P21980;Q15025;P05121}

26112 Pathogen[ P14079] interacts with 4 human partners:{Q08722;P21980;Q15025;O95760}

26113 Pathogen[ P03383] interacts with 2 human partners:{Q15025;P21980}

26114 Pathogen[ P03410] interacts with 5 human partners:{P05121;Q15025;O95760;Q08722;P21980}

26115 Pathogen[ P14075] interacts with 2 human partners:{Q15025;P21980}

26116 Pathogen[ P0C206] interacts with 3 human partners:{P21980;Q15025;P05121}

26117 Pathogen[ P03363] interacts with 1 human partners:{Q15025}

26118 [Cluster 2375]GO:0030318+P biological\_process [name] melanocyte differentiation [def] "The process in which a relatively unspecialized cell acquires specialized features of a melanocyte." [GOC

26119 Pathogen[ Q2Q067] interacts with 6 human partners:{Q9NQG7;Q9UL45;Q99966;P56693;O75030;Q86YV9}

26120 Pathogen[ P0C214] interacts with 6 human partners:{Q9NQG7;P56693;Q86YV9;O75030;Q99966;Q9UL45}

26121 Pathogen[ P03346] interacts with 7 human partners:{Q9NQG7;Q86YV9;Q99966;P56693;O75030;Q9UL45;Q9UJU5}

26122 Pathogen[ Q85601] interacts with 5 human partners:{Q9NQG7;Q99966;O75030;Q86YV9;P56693}

26123 Pathogen[ P14079] interacts with 8 human partners:{Q9NQG7;Q86YV9;Q06413;Q92902;Q99966;Q9UL45;P56693;O75030}

26124 Pathogen[ P03383] interacts with 4 human partners:{Q9NQG7;O75030;Q86YV9;P56693}

26125 Pathogen[ P03410] interacts with 7 human partners:{Q9NQG7;Q92902;O75030;Q9UL45;Q86YV9;P56693;Q99966}

26126 Pathogen[ P14075] interacts with 4 human partners:{Q9NQG7;O75030;P56693;Q86YV9}

26127 Pathogen[ P0C206] interacts with 6 human partners:{Q9NQG7;Q9UL45;O75030;P56693;Q99966;Q86YV9}

26128 Pathogen[ P03363] interacts with 5 human partners:{Q9NQG7;P56693;O75030;Q92902;Q9UJU5}

26129 [Cluster 2376]GO:0042491+P biological\_process [name] auditory receptor cell differentiation [def] "The process in which a relatively unspecialized cell acquires specialized features of an auditory hair cell." [CL

26130 Pathogen[ Q2Q067] interacts with 3 human partners:{Q99684;P39880;Q9Y6N9}

26131 Pathogen[ P0C214] interacts with 4 human partners:{Q9UM54;Q9Y6N9;P39880;Q99684}

26132 Pathogen[ P03346] interacts with 5 human partners:{Q9Y6N9;Q92858;Q99684;P39880;Q15319}

26133 Pathogen[ Q85601] interacts with 4 human partners:{Q9Y6N9;Q99684;Q9UM54;P39880}

26134 Pathogen[ P14079] interacts with 4 human partners:{P39880;Q99684;Q9UM54;Q9Y6N9}

26135 Pathogen[ P03383] interacts with 2 human partners:{Q99684;P39880}

26136 Pathogen[ P03410] interacts with 4 human partners:{Q99684;Q9UM54;Q9Y6N9;P39880}

26137 Pathogen[ P14075] interacts with 2 human partners:{P39880;Q99684}

26138 Pathogen[ P0C206] interacts with 4 human partners:{Q9UM54;Q9Y6N9;Q99684;P39880}

26139 Pathogen[ P03363] interacts with 4 human partners:{Q9Y6N9;Q99684;P39880;Q15319}

26140 [Cluster 2377]GO:0061154+P biological\_process [name] endothelial tube morphogenesis [def] "The process in which the anatomical structures of a tube are generated and

organized from an endothelium. An endothelium is an epithelium that lines an anatomical structure." [GOC

26141 Pathogen[ Q2Q067] interacts with 2 human partners:{P67870;Q9BSQ5}

26142 Pathogen[ P0C214] interacts with 2 human partners:{Q9BSQ5;P67870}

26143 Pathogen[ P03346] interacts with 2 human partners:{P67870;Q9BSQ5}

26144 Pathogen[ Q85601] interacts with 2 human partners:{P67870;Q9BSQ5}

26145 Pathogen[ P14079] interacts with 2 human partners:{Q9BSQ5;P67870}

26146 Pathogen[ P03383] interacts with 2 human partners:{P67870;Q9BSQ5}

26147 Pathogen[ P03410] interacts with 2 human partners:{P67870;Q9BSQ5}

26148 Pathogen[ P14075] interacts with 2 human partners:{P67870;Q9BSQ5}

26149 Pathogen[ P0C206] interacts with 2 human partners:{Q9BSQ5;P67870}

26150 Pathogen[ P03363] interacts with 2 human partners:{Q9BSQ5;P67870}

26151 [Cluster 2378]GO:0032387+P biological\_process [name] negative regulation of intracellular transport [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the directed movement of substances within cells." [GOC

26152 Pathogen[ Q2Q067] interacts with 2 human partners:{P02511;P02489}

26153 Pathogen[ P0C214] interacts with 2 human partners:{P02489;P02511}

26154 Pathogen[ P03346] interacts with 2 human partners:{P02489;P02511}

26155 Pathogen[ Q85601] interacts with 2 human partners:{P02489;P02511}

26156 Pathogen[ P14079] interacts with 3 human partners:{P02511;P02489;P10636}

26157 Pathogen[ P03383] interacts with 1 human partners:{P02511}

26158 Pathogen[ P03410] interacts with 3 human partners:{P02489;P02511;P10636}

26159 Pathogen[ P14075] interacts with 1 human partners:{P02511}

26160 Pathogen[ P0C206] interacts with 3 human partners:{P10636;P02511;P02489}

26161 Pathogen[ P03363] interacts with 1 human partners:{P02489}

26162 [Cluster 2379]GO:0090050+P biological\_process [name] positive regulation of cell migration involved in sprouting angiogenesis [def] "Any process that increases the frequency, rate or extent of cell migration involved in sprouting angiogenesis. Cell migration involved in sprouting angiogenesis is the orderly movement of endothelial cells into the extracellular matrix in order to form new blood vessels contributing to the process of sprouting angiogenesis." [GOC

26163 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9UKV0;Q8WUI4}

26164 Pathogen[ P0C214] interacts with 2 human partners:{Q9UKV0;Q8WUI4}

26165 Pathogen[ P03346] interacts with 2 human partners:{Q8WUI4;Q9UKV0}

26166 Pathogen[ Q85601] interacts with 2 human partners:{Q9UKV0;Q8WUI4}

26167 Pathogen[ P14079] interacts with 2 human partners:{Q8WUI4;Q9UKV0}

26168 Pathogen[ P03383] interacts with 2 human partners:{Q9UKV0;Q8WUI4}

26169 Pathogen[ P03410] interacts with 2 human partners:{Q9UKV0;Q8WUI4}

26170 Pathogen[ P14075] interacts with 2 human partners:{Q9UKV0;Q8WUI4}

26171 Pathogen[ P0C206] interacts with 2 human partners:{Q9UKV0;Q8WUI4}

26172 Pathogen[ P03363] interacts with 2 human partners:{Q9UKV0;Q8WUI4}

26173 [Cluster 2380]GO:0060242+P biological\_process [name] contact inhibition [def] "The cellular process in which cells stop growing or dividing in response to increased cell density." [GOC

26174 Pathogen[ Q2Q067] interacts with 1 human partners:{P46937}

26175 Pathogen[ P0C214] interacts with 1 human partners:{P46937}

26176 Pathogen[ P03346] interacts with 1 human partners:{P46937}

26177 Pathogen[ Q85601] interacts with 1 human partners:{P46937}

26178 Pathogen[ P14079] interacts with 1 human partners:{P46937}

26179 Pathogen[ P03383] interacts with 1 human partners:{P46937}

26180 Pathogen[ P03410] interacts with 1 human partners:{P46937}

26181 Pathogen[ P14075] interacts with 1 human partners:{P46937}

26182 Pathogen[ P0C206] interacts with 1 human partners:{P46937}

26183 Pathogen[ P03363] interacts with 1 human partners:{P46937}

26184 [Cluster 2381]GO:0001731+P biological\_process [name] formation of translation preinitiation complex [def] "The joining of the small ribosomal subunit, ternary complex, and mRNA." [GOC

26185 Pathogen[ Q2Q067] interacts with 1 human partners:{Q7Z2Z1}

26186 Pathogen[ P0C214] interacts with 1 human partners:{Q7Z2Z1}

26187 Pathogen[ P03346] interacts with 1 human partners:{Q7Z2Z1}

26188 Pathogen[ Q85601] interacts with 1 human partners:{Q7Z2Z1}

26189 Pathogen[ P14079] interacts with 1 human partners:{Q7Z2Z1}

26190 Pathogen[ P03383] interacts with 1 human partners:{Q7Z2Z1}

26191 Pathogen[ P03410] interacts with 1 human partners:{Q7Z2Z1}

26192 Pathogen[ P14075] interacts with 1 human partners:{Q7Z2Z1}

26193 Pathogen[ P0C206] interacts with 1 human partners:{Q7Z2Z1}

26194 Pathogen[ P03363] interacts with 1 human partners:{Q7Z2Z1}

26195 [Cluster 2382]GO:0071340+P biological\_process [name] skeletal muscle acetylcholine-gated channel clustering [def] "The accumulation of acetylcholine-gated cation channels in a narrow, central region of muscle fibers, in apposition to nerve terminals." [GOC

26196 Pathogen[ Q2Q067] interacts with 2 human partners:{Q53G26;Q96EY1}

26197 Pathogen[ P0C214] interacts with 2 human partners:{Q53G26;Q96EY1}

26198 Pathogen[ P03346] interacts with 2 human partners:{Q53G26;Q96EY1}

26199 Pathogen[ Q85601] interacts with 2 human partners:{Q53G26;Q96EY1}

26200 Pathogen[ P14079] interacts with 1 human partners:{Q96EY1}

26201 Pathogen[ P03383] interacts with 2 human partners:{Q96EY1;Q53G26}

26202 Pathogen[ P03410] interacts with 2 human partners:{Q53G26;Q96EY1}

26203 Pathogen[ P14075] interacts with 2 human partners:{Q53G26;Q96EY1}

26204 Pathogen[ P0C206] interacts with 2 human partners:{Q53G26;Q96EY1}

26205 Pathogen[ P03363] interacts with 2 human partners:{Q53G26;Q96EY1}

26206 [Cluster 2383]GO:0001974+P biological\_process [name] blood vessel remodeling [def] "The reorganization or renovation of existing blood vessels." [GOC

26207 Pathogen[ Q2Q067] interacts with 5 human partners:{O43365;P21980;P29474;Q99814;Q9H1Y0}

26208 Pathogen[ P0C214] interacts with 6 human partners:{P29474;O43365;Q9H1Y0;Q99814;P21980;P35520}

26209 Pathogen[ P03346] interacts with 5 human partners:{P21980;P29474;O43365;Q99814;Q9H1Y0}

26210 Pathogen[ Q85601] interacts with 5 human partners:{Q99814;Q9H1Y0;P21980;P29474;O43365}

26211 Pathogen[ P14079] interacts with 6 human partners:{P15502;Q99814;Q06413;P21980;Q9H1Y0;O43365}

26212 Pathogen[ P03383] interacts with 5 human partners:{P29474;O43365;Q9H1Y0;P21980;P15502}

26213 Pathogen[ P03410] interacts with 6 human partners:{Q9H1Y0;Q99814;P29474;P15502;P21980;O43365}

26214 Pathogen[ P14075] interacts with 5 human partners:{P29474;Q9H1Y0;O43365;P15502;P21980}

26215 Pathogen[ P0C206] interacts with 7 human partners:{O43365;P15502;P21980;P50461;Q9H1Y0;P29474;Q99814}

26216 Pathogen[ P03363] interacts with 4 human partners:{P29474;O43365;Q99814;Q9H1Y0}

26217 [Cluster 2384]GO:0060510+P biological\_process [name] Type II pneumocyte differentiation [def] "The process in which a relatively unspecialized cell acquires specialized features of a Type II pneumocyte. A Type II pneumocyte is a surfactant secreting cell that contains abundant cytoplasm containing numerous lipid-rich multilamellar bodies." [GOC

26218 Pathogen[ Q2Q067] interacts with 2 human partners:{O00712;Q13155}

26219 Pathogen[ P0C214] interacts with 2 human partners:{O00712;Q13155}

26220 Pathogen[ P03346] interacts with 2 human partners:{O00712;Q13155}

26221 Pathogen[ Q85601] interacts with 2 human partners:{Q13155;O00712}

26222 Pathogen[ P14079] interacts with 2 human partners:{Q13155;O00712}

26223 Pathogen[ P03383] interacts with 2 human partners:{O00712;Q13155}

26224 Pathogen[ P03410] interacts with 2 human partners:{Q13155;O00712}

26225 Pathogen[ P14075] interacts with 2 human partners:{Q13155;O00712}

26226 Pathogen[ P0C206] interacts with 2 human partners:{O00712;Q13155}

26227 Pathogen[ P03363] interacts with 2 human partners:{O00712;Q13155}

26228 [Cluster 2385]GO:0043124+P biological\_process [name] negative regulation of I-kappaB kinase/NF-kappaB cascade [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of an I-kappaB kinase/NF-kappaB induced cascade." [GOC

26229 Pathogen[ Q2Q067] interacts with 8 human partners:{Q15326;Q15025;Q14790;Q96LW7;Q04724;Q9Y2G2;P42224;Q96EY1}

26230 Pathogen[ P0C214] interacts with 8 human partners:{P42224;Q04724;Q96LW7;Q15025;Q9Y2G2;Q15326;Q96EY1;Q14790}

26231 Pathogen[ P03346] interacts with 9 human partners:{Q04724;Q15025;P42224;Q96LW7;Q15326;Q14790;Q6GQQ9;Q9Y2G2;Q96EY1}

26232 Pathogen[ Q85601] interacts with 8 human partners:{Q04724;Q14790;Q9Y2G2;Q15025;P42224;Q15326;Q96LW7;Q96EY1}

26233 Pathogen[ P14079] interacts with 9 human partners:{Q96KP6;Q96LW7;Q15025;Q14790;P42224;Q9Y2G2;Q04724;Q15326;Q96EY1}

26234 Pathogen[ P03383] interacts with 6 human partners:{Q04724;Q15326;Q15025;Q9Y2G2;Q96EY1;Q96LW7}

26235 Pathogen[ P03410] interacts with 7 human partners:{Q9Y2G2;Q04724;Q15025;Q96KP6;Q15326;Q96EY1;Q96LW7}

26236 Pathogen[ P14075] interacts with 6 human partners:{Q96LW7;Q15326;Q15025;Q04724;Q96EY1;Q9Y2G2}

26237 Pathogen[ P0C206] interacts with 9 human partners:{Q9Y2G2;Q15326;Q96LW7;Q15025;Q14790;Q6GQQ9;Q04724;P42224;Q96EY1}

26238 Pathogen[ P03363] interacts with 7 human partners:{Q6GQQ9;Q96LW7;Q04724;Q15326;Q9Y2G2;Q15025;Q96EY1}

26239 [Cluster 2386]GO:0032071+P biological\_process [name] regulation of endodeoxyribonuclease activity [def] "Any process that modulates the frequency, rate or extent of endodeoxyribonuclease activity, the hydrolysis of ester linkages within deoxyribonucleic acid by creating internal breaks." [GOC

26240 Pathogen[ Q2Q067] interacts with 1 human partners:{P06748}

26241 Pathogen[ P0C214] interacts with 1 human partners:{P06748}

26242 Pathogen[ P03346] interacts with 1 human partners:{P06748}

26243 Pathogen[ Q85601] interacts with 1 human partners:{P06748}

26244 Pathogen[ P14079] interacts with 1 human partners:{P06748}

26245 Pathogen[ P03383] interacts with 1 human partners:{P06748}

26246 Pathogen[ P03410] interacts with 1 human partners:{P06748}

26247 Pathogen[ P14075] interacts with 1 human partners:{P06748}

26248 Pathogen[ P0C206] interacts with 1 human partners:{P06748}

26249 Pathogen[ P03363] interacts with 1 human partners:{P06748}

26250 [Cluster 2387]GO:0032480+P biological\_process [name] negative regulation of type I interferon production [def] "Any process that stops, prevents, or reduces the frequency, rate, or extent of type I interferon production. Type I interferons include the interferon-alpha, beta, delta, epsilon, zeta, kappa, tau, and omega gene families." [GOC]

26251 Pathogen[ Q2Q067] interacts with 19 human partners:{Q096J02;Q14258;Q9UII4;P61077;Q14653;Q14933;Q13114;Q15366;Q86VP1;Q13526;P0CG47;Q9BYX4;P0CG48;O94817;Q86WI3;P62987;Q9H1Y0;Q8IUD6;P62979}

26252 Pathogen[ P0C214] interacts with 20 human partners:{O14933;Q96J02;Q14164;Q86WI3;Q13526;Q8IUD6;Q9BYX4;Q15366;P61077;Q14258;P0CG48;Q86VP1;O94817;Q9UII4;Q14653;P62987;Q9H1Y0;Q13114;P0CG47;P62979}

26253 Pathogen[ P03346] interacts with 21 human partners:{Q96J02;Q15366;Q14258;P62987;Q8IUD6;P0CG48;Q9UII4;Q13526;Q13114;P61077;Q86UT6;Q86WI3;Q14653;P62979;Q9BYX4;P0CG47;O14933;Q9H1Y0;O94817;Q14164;Q86VP1}

26254 Pathogen[ Q85601] interacts with 20 human partners:{Q96J02;Q86VP1;O14933;Q14258;Q86WI3;P0CG48;Q8IUD6;Q13114;P61077;O94817;Q14653;Q14164;Q13526;Q9NQC7;Q9H1Y0;Q9BYX4;P62979;P0CG47;P62987;Q15366}

26255 Pathogen[ P14079] interacts with 22 human partners:{P0CG48;Q9BYX4;Q14653;Q14164;P62979;Q14258;P61077;Q9H1Y0;P62987;Q7Z434;Q15366;Q96J02;Q86UT6;O94817;Q86WI3;Q13526;P0CG47;Q9NQC7;O14933;Q96C10;Q8IUD6;Q13114}

26256 Pathogen[ P03383] interacts with 15 human partners:{Q14653;Q15366;O14933;P62987;Q86VP1;Q9H1Y0;P61077;Q86WI3;P62979;P0CG47;P0CG48;O94817;Q14258;Q13114;Q13526}

26257 Pathogen[ P03410] interacts with 19 human partners:{P0CG48;Q9H1Y0;Q13526;Q14653;Q9BYX4;Q15366;P62979;O94817;Q14258;Q86VP1;O14933;Q7Z434;Q86WI3;Q86UT6;Q96C10;P62987;P0CG47;Q13114;P61077}

26258 Pathogen[ P14075] interacts with 15 human partners:{Q15366;Q86WI3;Q9H1Y0;O14933;P61077;P0CG48;P62979;Q86VP1;Q14653;Q13526;P62987;Q13114;Q14258;O94817;P0CG47}

26259 Pathogen[ P0C206] interacts with 21 human partners:{Q9NQC7;P0CG48;Q13114;Q13526;Q86WI3;O14933;Q14258;Q86VP1;Q96J02;Q8IUD6;Q14164;Q9H1Y0;P62979;Q15366;P0CG47;O94817;P61077;P62987;Q9BYX4;Q96C10;Q14653}

26260 Pathogen[ P03363] interacts with 15 human partners:{Q86VP1;Q14653;Q15366;O14933;Q14258;Q13526;Q86WI3;P62987;Q8IUD6;Q13114;Q9BYX4;P61077;Q9UII4;O94817;Q9H1Y0}

26261 [Cluster 2388]GO:2000564+P biological\_process [name] regulation of CD8-positive, alpha-beta T cell proliferation [def] "Any process that modulates the frequency, rate or extent of CD8-positive, alpha-beta T cell proliferation." [GOC]

26262 Pathogen[ Q2Q067] interacts with 1 human partners:{P10914}

26263 Pathogen[ P0C214] interacts with 1 human partners:{P10914}

26264 Pathogen[ P03346] interacts with 1 human partners:{P10914}

26265 Pathogen[ Q85601] interacts with 1 human partners:{P10914}

26266 Pathogen[ P14079] interacts with 1 human partners:{P10914}

26267 Pathogen[ P03383] interacts with 1 human partners:{P10914}

26268 Pathogen[ P03410] interacts with 1 human partners:{P10914}

26269 Pathogen[ P14075] interacts with 1 human partners:{P10914}

26270 Pathogen[ P0C206] interacts with 1 human partners:{P10914}

26271 Pathogen[ P03363] interacts with 1 human partners:{P10914}

26272 [Cluster 2389]GO:0010159+P biological\_process [name] specification of organ position [def] "The regionalization process in which information that determines the correct position at which organ primordia are formed is generated and perceived resulting in correct positioning of the new organ." [PMID]

26273 Pathogen[ Q2Q067] interacts with 1 human partners:{O43365}

26274 Pathogen[ P0C214] interacts with 1 human partners:{O43365}

26275 Pathogen[ P03346] interacts with 2 human partners:{O43365;O75593}

26276 Pathogen[ Q85601] interacts with 1 human partners:{O43365}

26277 Pathogen[ P14079] interacts with 1 human partners:{O43365}

26278 Pathogen[ P03383] interacts with 1 human partners:{O43365}

26279 Pathogen[ P03410] interacts with 1 human partners:{O43365}

26280 Pathogen[ P14075] interacts with 1 human partners:{O43365}

26281 Pathogen[ P0C206] interacts with 1 human partners:{O43365}

26282 Pathogen[ P03363] interacts with 1 human partners:{O43365}

26283 [Cluster 2390]GO:0007621+P biological\_process [name] negative regulation of female receptivity [def] "Any process that stops, prevents or reduces the receptiveness of a female to male advances." [GOC]

26284 Pathogen[ Q2Q067] interacts with 1 human partners:{P10828}

26285 Pathogen[ P0C214] interacts with 1 human partners:{P10828}

26286 Pathogen[ P03346] interacts with 1 human partners:{P10828}

26287 Pathogen[ Q85601] interacts with 1 human partners:{P10828}

26288 Pathogen[ P14079] interacts with 1 human partners:{P10828}

26289 Pathogen[ P03383] interacts with 1 human partners:{P10828}

26290 Pathogen[ P03410] interacts with 1 human partners:{P10828}

26291 Pathogen[ P14075] interacts with 1 human partners:{P10828}

26292 Pathogen[ P0C206] interacts with 1 human partners:{P10828}

26293 Pathogen[ P03363] interacts with 1 human partners:{P10828}

26294 [Cluster 2391]GO:0071542+P biological\_process [name] dopaminergic neuron differentiation [def] "The process in which a neuroblast acquires the specialized structural and functional features of a dopaminergic neuron, a neuron that secretes dopamine." [GOC

26295 Pathogen[ Q2Q067] interacts with 2 human partners:{O14813;P63000}

26296 Pathogen[ P0C214] interacts with 2 human partners:{O14813;P63000}

26297 Pathogen[ P03346] interacts with 3 human partners:{O75364;O14813;P63000}

26298 Pathogen[ Q85601] interacts with 2 human partners:{O14813;P63000}

26299 Pathogen[ P14079] interacts with 1 human partners:{O14813}

26300 Pathogen[ P03383] interacts with 1 human partners:{P63000}

26301 Pathogen[ P03410] interacts with 2 human partners:{O14813;P63000}

26302 Pathogen[ P14075] interacts with 1 human partners:{P63000}

26303 Pathogen[ P0C206] interacts with 2 human partners:{P63000;O14813}

26304 Pathogen[ P03363] interacts with 2 human partners:{P63000;O14813}

26305 [Cluster 2392]GO:0048566+P biological\_process [name] embryonic digestive tract development [def] "The process whose specific outcome is the progression of the gut over time, from its formation to the mature structure during embryonic development. The gut is the region of the digestive tract extending from the beginning of the intestines to the anus." [GOC

26306 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9NSC2;P10242}

26307 Pathogen[ P0C214] interacts with 2 human partners:{Q9NSC2;P10242}

26308 Pathogen[ P03346] interacts with 2 human partners:{Q9NSC2;P10242}

26309 Pathogen[ Q85601] interacts with 2 human partners:{P10242;Q9NSC2}

26310 Pathogen[ P14079] interacts with 2 human partners:{P10242;Q9NSC2}

26311 Pathogen[ P03383] interacts with 2 human partners:{Q9NSC2;P10242}

26312 Pathogen[ P03410] interacts with 2 human partners:{P10242;Q9NSC2}

26313 Pathogen[ P14075] interacts with 2 human partners:{Q9NSC2;P10242}

26314 Pathogen[ P0C206] interacts with 2 human partners:{Q9NSC2;P10242}

26315 Pathogen[ P03363] interacts with 1 human partners:{P10242}

26316 [Cluster 2393]GO:0048103+P biological\_process [name] somatic stem cell division [def] "The self-renewing division of a somatic stem cell, a stem cell that can give rise to cell types of the body other than those of the germ-line." [GOC

26317 Pathogen[ Q2Q067] interacts with 3 human partners:{P17483;Q8N726;P35226}

26318 Pathogen[ P0C214] interacts with 2 human partners:{P35226;Q8N726}

26319 Pathogen[ P03346] interacts with 3 human partners:{P35226;P17483;Q8N726}

26320 Pathogen[ Q85601] interacts with 2 human partners:{Q8N726;P35226}

26321 Pathogen[ P14079] interacts with 2 human partners:{Q8N726;P35226}

26322 Pathogen[ P03383] interacts with 2 human partners:{P35226;Q8N726}

26323 Pathogen[ P03410] interacts with 2 human partners:{Q8N726;P35226}

26324 Pathogen[ P14075] interacts with 2 human partners:{P35226;Q8N726}

26325 Pathogen[ P0C206] interacts with 3 human partners:{Q8N726;P35226;P17483}

26326 Pathogen[ P03363] interacts with 3 human partners:{P17483;P35226;Q8N726}

26327 [Cluster 2394]GO:0048255+P biological\_process [name] mRNA stabilization [def] "Prevention of degradation of mRNA molecules. In the absence of compensating changes in other processes, the slowing of mRNA degradation can result in an overall increase in the population of active mRNA molecules." [GOC

26328 Pathogen[ Q2Q067] interacts with 5 human partners:{Q01094;Q9H074;Q14103;Q9Y2T7;P11940}

26329 Pathogen[ P0C214] interacts with 6 human partners:{P11940;Q01094;Q9Y2T7;Q14103;Q9H074;Q14011}

26330 Pathogen[ P03346] interacts with 6 human partners:{Q14011;P11940;Q01094;Q14103;Q9H074;Q9Y2T7}

26331 Pathogen[ Q85601] interacts with 5 human partners:{Q9Y2T7;Q14103;P11940;Q9H074;Q01094}

26332 Pathogen[ P14079] interacts with 7 human partners:{P41238;Q14103;Q9H074;Q9Y2T7;P11940;Q14011;Q01094}

26333 Pathogen[ P03383] interacts with 5 human partners:{Q01094;P11940;Q9Y2T7;Q14103;Q9H074}

26334 Pathogen[ P03410] interacts with 7 human partners:{Q14103;P11940;P41238;Q9H074;Q14011;Q01094;Q9Y2T7}

26335 Pathogen[ P14075] interacts with 5 human partners:{Q14103;Q9H074;P11940;Q9Y2T7;Q01094}

26336 Pathogen[ P0C206] interacts with 7 human partners:{Q9H074;Q14103;Q14011;Q01094;P41238;Q9Y2T7;P11940}

26337 Pathogen[ P03363] interacts with 7 human partners:{P11940;Q15717;Q01094;Q14011;Q14103;Q9Y2T7;Q9H074}

26338 [Cluster 2395]GO:0035767+P biological\_process [name] endothelial cell chemotaxis [def] "The directed movement of an endothelial cell guided by a specific chemical concentration gradient. Movement may be towards a higher concentration (positive chemotaxis) or towards a lower concentration (negative chemotaxis)." [CL

26339 Pathogen[ Q2Q067] interacts with 3 human partners:{O14786;P04792;P22736}

26340 Pathogen[ P0C214] interacts with 2 human partners:{O14786;P04792}

26341 Pathogen[ P03346] interacts with 3 human partners:{P22736;P04792;O14786}

26342 Pathogen[ Q85601] interacts with 3 human partners:{O14786;P22736;P04792}

26343 Pathogen[ P14079] interacts with 2 human partners:{P22736;P04792}

26344 Pathogen[ P03383] interacts with 1 human partners:{P04792}

26345 Pathogen[ P03410] interacts with 3 human partners:{O14786;P04792;P22736}

26346 Pathogen[ P14075] interacts with 1 human partners:{P04792}

26347 Pathogen[ P0C206] interacts with 3 human partners:{P04792;P22736;O14786}

26348 Pathogen[ P03363] interacts with 2 human partners:{O14786;P04792}

26349 [Cluster 2396]GO:0019060+P biological\_process [name] intracellular transport of viral proteins in host cell [def] "The directed movement of viral proteins within the host cell." [ISBN

26350 Pathogen[ Q2Q067] interacts with 2 human partners:{P63172;P09914}

26351 Pathogen[ P0C214] interacts with 2 human partners:{P09914;P63172}

26352 Pathogen[ P03346] interacts with 3 human partners:{Q9BUN8;P63172;P09914}

26353 Pathogen[ Q85601] interacts with 2 human partners:{P63172;P09914}

26354 Pathogen[ P14079] interacts with 3 human partners:{P63172;P09914;Q9BUN8}

26355 Pathogen[ P03383] interacts with 2 human partners:{P63172;Q9BUN8}

26356 Pathogen[ P03410] interacts with 3 human partners:{P63172;Q9BUN8;P09914}

26357 Pathogen[ P14075] interacts with 2 human partners:{P63172;Q9BUN8}

26358 Pathogen[ P0C206] interacts with 3 human partners:{Q9BUN8;P63172;P09914}

26359 Pathogen[ P03363] interacts with 2 human partners:{P09914;P63172}

26360 [Cluster 2397]GO:0006900+P biological\_process [name] membrane budding [def] "The evagination of a membrane, resulting in formation of a vesicle." [GOC

26361 Pathogen[ Q2Q067] interacts with 1 human partners:{000401}

26362 Pathogen[ P0C214] interacts with 1 human partners:{000401}

26363 Pathogen[ P03346] interacts with 1 human partners:{000401}

26364 Pathogen[ Q85601] interacts with 1 human partners:{000401}

26365 Pathogen[ P14079] interacts with 1 human partners:{000401}

26366 Pathogen[ P03383] interacts with 1 human partners:{000401}

26367 Pathogen[ P03410] interacts with 1 human partners:{000401}

26368 Pathogen[ P14075] interacts with 1 human partners:{000401}

26369 Pathogen[ P0C206] interacts with 1 human partners:{000401}

26370 Pathogen[ P03363] interacts with 1 human partners:{000401}

26371 [Cluster 2398]GO:0051488+P biological\_process [name] activation of anaphase-promoting complex activity [def] "Any process that initiates the ubiquitin ligase activity of the anaphase-promoting complex." [GOC

26372 Pathogen[ Q2Q067] interacts with 3 human partners:{000762;Q12834;Q9UM11}

26373 Pathogen[ P0C214] interacts with 4 human partners:{Q16763;000762;Q12834;Q9UM11}

26374 Pathogen[ P03346] interacts with 3 human partners:{Q9UM11;Q12834;000762}

26375 Pathogen[ Q85601] interacts with 4 human partners:{Q16763;Q12834;000762;Q9UM11}

26376 Pathogen[ P14079] interacts with 2 human partners:{Q9UM11;000762}

26377 Pathogen[ P03383] interacts with 3 human partners:{000762;Q12834;Q9UM11}

26378 Pathogen[ P03410] interacts with 3 human partners:{Q9UM11;Q12834;000762}

26379 Pathogen[ P14075] interacts with 3 human partners:{Q9UM11;000762;Q12834}

26380 Pathogen[ P0C206] interacts with 4 human partners:{Q16763;Q9UM11;000762;Q12834}

26381 Pathogen[ P03363] interacts with 3 human partners:{000762;Q9UM11;Q12834}

26382 [Cluster 2399]GO:0018298+P biological\_process [name] protein-chromophore linkage [def] "The covalent or noncovalent attachment of a chromophore to a protein." [GOC

26383 Pathogen[ Q2Q067] interacts with 1 human partners:{Q16526}

26384 Pathogen[ P0C214] interacts with 2 human partners:{Q49AN0;Q16526}

26385 Pathogen[ P03346] interacts with 2 human partners:{Q49AN0;Q16526}

26386 Pathogen[ Q85601] interacts with 2 human partners:{Q49AN0;Q16526}

26387 Pathogen[ P14079] interacts with 2 human partners:{Q16526;Q49AN0}

26388 Pathogen[ P03383] interacts with 1 human partners:{Q16526}

26389 Pathogen[ P03410] interacts with 2 human partners:{Q16526;Q49AN0}

26390 Pathogen[ P14075] interacts with 1 human partners:{Q16526}

26391 Pathogen[ P0C206] interacts with 2 human partners:{Q16526;Q49AN0}

26392 Pathogen[ P03363] interacts with 2 human partners:{Q49AN0;Q16526}

26393 [Cluster 2400]GO:0007413+P biological\_process [name] axonal fasciculation [def] "The collection of axons into a bundle of rods, known as a fascicle." [GOC

26394 Pathogen[ Q2Q067] interacts with 2 human partners:{O14786;Q99608}

26395 Pathogen[ P0C214] interacts with 2 human partners:{O14786;Q99608}

26396 Pathogen[ P03346] interacts with 2 human partners:{Q99608;O14786}

26397 Pathogen[ Q85601] interacts with 2 human partners:{Q99608;O14786}

26398 Pathogen[ P14079] interacts with 2 human partners:{Q99608;Q15078}

26399 Pathogen[ P03383] interacts with 1 human partners:{Q99608}

26400 Pathogen[ P03410] interacts with 2 human partners:{O14786;Q99608}

26401 Pathogen[ P14075] interacts with 1 human partners:{Q99608}

26402 Pathogen[ P0C206] interacts with 2 human partners:{O14786;Q99608}

26403 Pathogen[ P03363] interacts with 2 human partners:{O14786;Q99608}

26404 [Cluster 2401]GO:0045838+P biological\_process [name] positive regulation of membrane potential [def] "Any process that activates or increases the frequency, rate or extent of establishment or extent of a membrane potential, the electric potential existing across any membrane arising from charges in the membrane itself and from the charges present in the media on either side of the membrane." [GOC

26405 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9Y6X2;Q15599}

26406 Pathogen[ P0C214] interacts with 2 human partners:{Q9Y6X2;Q15599}

26407 Pathogen[ P03346] interacts with 2 human partners:{Q15599;Q9Y6X2}

26408 Pathogen[ Q85601] interacts with 2 human partners:{Q9Y6X2;Q15599}

26409 Pathogen[ P14079] interacts with 2 human partners:{Q9Y6X2;Q15599}  
26410 Pathogen[ P03383] interacts with 1 human partners:{Q9Y6X2}  
26411 Pathogen[ P03410] interacts with 2 human partners:{Q9Y6X2;Q15599}  
26412 Pathogen[ P14075] interacts with 1 human partners:{Q9Y6X2}  
26413 Pathogen[ P0C206] interacts with 2 human partners:{Q9Y6X2;Q15599}  
26414 Pathogen[ P03363] interacts with 2 human partners:{Q9Y6X2;Q15599}  
26415 [Cluster 2402]GO:0072075+P biological\_process [name] metanephric mesenchyme development [def] "The biological process whose specific outcome is the progression of a metanephric mesenchyme from an initial condition to its mature state. This process begins with the formation of metanephric mesenchyme and ends with the mature structure. Metanephric mesenchyme is the tissue made up of loosely connected mesenchymal cells in the metanephros." [GOC  
26416 Pathogen[ Q2Q067] interacts with 1 human partners:{P80723}  
26417 Pathogen[ P0C214] interacts with 1 human partners:{P80723}  
26418 Pathogen[ P03346] interacts with 3 human partners:{Q9UIU6;P80723;Q15475}  
26419 Pathogen[ Q85601] interacts with 1 human partners:{P80723}  
26420 Pathogen[ P14079] interacts with 1 human partners:{P80723}  
26421 Pathogen[ P03383] interacts with 1 human partners:{P80723}  
26422 Pathogen[ P03410] interacts with 1 human partners:{P80723}  
26423 Pathogen[ P14075] interacts with 1 human partners:{P80723}  
26424 Pathogen[ P0C206] interacts with 1 human partners:{P80723}  
26425 Pathogen[ P03363] interacts with 1 human partners:{P80723}  
26426 [Cluster 2403]GO:0009615+P biological\_process [name] response to virus [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a stimulus from a virus." [GOC  
26427 Pathogen[ Q2Q067] interacts with 34 human partners:{Q9Y6K5;P55265;Q16666;P09913;Q92985;P20749;P26641;P62244;P25787;P04792;O75531;P80217;P23528;Q9NS37;O15304;Q7Z2W4;Q9Y6Y0;P61966;Q9Y6K9;P09914;Q92499;O43504;Q9BUJ2;O14920;Q9BYX4;P17096;P35269;P13994;P06733;P15407;O15111;O94763;O14879;Q00534}  
26428 Pathogen[ P0C214] interacts with 39 human partners:{P80217;Q9NS37;O15111;Q9Y6K9;P09914;P09913;O14879;P48643;P15407;P35269;P55265;Q9Y6K5;P04792;P17096;P29728;Q16666;Q9BYX4;P26641;Q8WXG1;Q7Z2W4;Q00534;Q92985;Q9Y6Y0;P20749;Q9BUJ2;P06733;P62736;P13994;O75531;P62244;Q92499;Q9H2U1;O43504;P10909;P25787;P61966;O94763;O14920;O15304}  
26429 Pathogen[ P03346] interacts with 40 human partners:{P25787;Q9Y6K9;P61966;Q16666;O15111;P55265;O75531;P62736;O94763;O15304;P26641;Q9BUJ2;P17096;P06733;Q9H2U1;Q8TCB0;Q92499;Q9Y6Y0;Q8IYM9;Q15646;O14879;O75569;P13994;P15407;Q9BYX4;O43504;P20749;P80217;P35269;Q00534;P09913;O14920;P23528;Q92985;P09914;Q9NS37;P04792;Q9Y6K5;P62244;Q7Z2W4}  
26430 Pathogen[ Q85601] interacts with 37 human partners:{P62244;Q16666;P09913;P17096;P25787;O14879;O15111;P15407;O15304;Q7Z2W4;P26641;P06733;Q9BUJ2;Q92499;P80217;Q9Y6K9;Q9Y6Y0;Q9Y6K5;O14920;Q8IYM9;P35269;Q9BYX4;Q92985;P13994;P55265;P09914;P04792;O94763;P23528;Q00534;P61966;Q9NS37;P48643;O75531;P62736;P20749;Q9H2U1}  
26431 Pathogen[ P14079] interacts with 44 human partners:{P13164;P48643;P61966;Q06413;Q9BYX4;P29728;P09914;P35269;Q7Z2W4;P80217;O15304;Q92985;P26641;Q9BUJ2;P17096;P25787;P10909;O75569;Q9NS37;P06733;P09913;O94763;P62244;P55265;P23528;Q9Y6K9;Q9Y6K5;Q9Y6Y0;O75531;P20749;Q96AZ6;P15407;P29459;Q8TCB0;Q92499;O43504;P13994;P04792;O14879;Q96C10;Q99836;Q16666;P13693;Q8WXG1}  
26432 Pathogen[ P03383] interacts with 31 human partners:{O14879;P17096;Q9Y6K9;P35269;O14920;O15304;O15111;P20749;P26641;P04792;Q00534;P09913;Q92985;O94763;Q9Y6Y0;P80217;P15407;P62244;Q16666;P13994;Q9Y6K5;O43504;Q9BUJ2;P55265;P23528;Q92499;Q9NS37;P06733;O75531;P25787;Q7Z2W4}  
26433 Pathogen[ P03410] interacts with 46 human partners:{P20749;P13994;Q9NS37;O94763;Q16666;O14920;P62736;P48643;P62244;O43504;Q00534;P29728;Q9BUJ2;O15111;P06733;Q9BYX4;Q9Y6Y0;P17096;P04792;P55265;Q8WXG1;O75569;P25787;Q92499;Q7Z2W4;O75531;Q96AZ6;P13693;P35269;P80217;Q9Y6K5;P09913;Q96C10;Q8TCB0;P26641;P15407;P23528;Q9Y6K9;Q92985;O14879;P61966;P09914;P29459;P10909;O15304;Q9H2U1}  
26434 Pathogen[ P14075] interacts with 31 human partners:{P06733;O15111;P09913;P55265;P62244;P17096;Q00534;P26641;P80217;P04792;Q16666;O15304;O94763;P23528;Q92499;O14920;Q9Y6Y0;Q9BUJ2;P35269;Q9Y6K5;P13994;Q7Z2W4;O14879;O43504;P25787;Q9Y6K9;Q92985;P15407;Q9NS37;P20749;O75531}  
26435 Pathogen[ P0C206] interacts with 43 human partners:{Q9BUJ2;P06733;P48643;O14920;P55265;Q9Y6K9;P15407;P62736;P62244;P25787;Q9Y6K5;P61966;O14879;Q16666;P29728;P04792;P26641;P80217;O43504;Q9Y6Y0;O75531;P35269;Q8TCB0;Q92985;P09913;O15111;P13994;Q9NS37;P10909;P17096;P20749;Q8IYM9;Q9H2U1;Q9BYX4;Q96C10;Q7Z2W4;Q8WXG1;Q92499;P23528;O15304;O94763;Q00534;P09914}  
26436 Pathogen[ P03363] interacts with 38 human partners:{Q9Y6Y0;Q9Y6K5;P13994;Q92985;O14920;Q8IY21;Q9NS37;P09914;P09913;O15111;O15304;P06733;P62736;Q7Z2W4;Q9Y6K9;P80217;O14879;O43504;P35269;Q16666;Q00534;P20749;P26641;P17096;O94763;Q92499;P55265;P23528;P15407;Q8TCB0;P62244;O75531;Q9BYX4;Q9H2U1;Q9BUJ2;P48643;P04792;O75569}  
26437 [Cluster 2404]GO:0060333+P biological\_process [name] interferon-gamma-mediated signaling pathway [def] "A series of molecular events generated as a consequence of interferon-gamma binding to a cell surface receptor." [GOC



26438 Pathogen[ Q2Q067] interacts with 16 human partners: {Q9Y6K5;O75925;Q92985;P14316;O14896;Q00978;P63165;Q14653;Q15306;P10914;Q02556;P23497;Q13568;P42224;P02795;P33076}

26439 Pathogen[ P0C214] interacts with 18 human partners: {O75925;Q13568;P33076;Q9Y6K5;P29728;P42224;P10914;Q00978;Q92985;P63165;Q02556;O14896;P02795;Q14653;P23497;O15524;P14316;Q15306}

26440 Pathogen[ P03346] interacts with 19 human partners: {O15524;P14316;P33076;Q15306;Q00978;O75925;P17706;Q15646;P10914;Q02556;P63165;O14896;P42224;Q14653;Q13568;P02795;P23497;Q92985;Q9Y6K5}

26441 Pathogen[ Q85601] interacts with 15 human partners: {O14896;P33076;P14316;Q02556;Q15306;Q00978;P02795;P10914;Q14653;Q9Y6K5;Q92985;P42224;P63165;Q13568;O75925}

26442 Pathogen[ P14079] interacts with 17 human partners: {P33076;P29728;P02795;Q14653;O14896;Q92985;P63165;Q15306;P23497;Q13568;Q9Y6K5;P42224;O75925;Q00978;Q02556;P14316;P10914}

26443 Pathogen[ P03383] interacts with 15 human partners: {P10914;O75925;P14316;Q14653;P33076;Q15306;Q00978;P02795;Q92985;O14896;Q13568;P63165;Q9Y6K5;P23497;Q02556}

26444 Pathogen[ P03410] interacts with 15 human partners: {O75925;O14896;P29728;P63165;Q14653;Q15306;Q13568;Q02556;P02795;P10914;Q9Y6K5;P14316;Q92985;P33076;Q00978}

26445 Pathogen[ P14075] interacts with 15 human partners: {P63165;P23497;P33076;O75925;Q00978;Q02556;Q13568;Q14653;Q9Y6K5;Q15306;P14316;O14896;P02795;Q92985;P10914}

26446 Pathogen[ P0C206] interacts with 18 human partners: {P10914;Q13568;O75925;Q9Y6K5;P29728;Q15306;O15524;P33076;Q02556;Q92985;O14896;Q00978;P63165;P02795;P42224;P14316;P17706;Q14653}

26447 Pathogen[ P03363] interacts with 17 human partners: {P17706;Q14653;Q9Y6K5;Q92985;O14896;P02795;O15524;Q02556;Q13568;Q15306;P23497;P63165;P14316;P10914;O75925;P33076;Q00978}

26448 [Cluster 2405]GO:0000480+P biological\_process [name] endonucleolytic cleavage in 5'-ETS of tricistronic rRNA transcript (SSU-rRNA, 5.8S rRNA, LSU-rRNA) [def] "Endonucleolytic cleavage within the 5'-External Transcribed Spacer (ETS) of a tricistronic rRNA transcript that contains the Small Subunit (SSU) rRNA, the 5.8S rRNA, and the Large Subunit (LSU) rRNA in that order from 5' to 3' along the primary transcript. Endonucleolytic cleavage within the 5'-ETS of the pre-rRNA is conserved as one of the early steps of rRNA processing in all eukaryotes, but the specific position of cleavage is variable." [GOC

26449 Pathogen[ Q2Q067] interacts with 2 human partners: {P78316;O75691}

26450 Pathogen[ P0C214] interacts with 2 human partners: {O75691;P78316}

26451 Pathogen[ P03346] interacts with 2 human partners: {O75691;P78316}

26452 Pathogen[ Q85601] interacts with 2 human partners: {O75691;P78316}

26453 Pathogen[ P14079] interacts with 2 human partners: {O75691;P78316}

26454 Pathogen[ P03383] interacts with 2 human partners: {O75691;P78316}

26455 Pathogen[ P03410] interacts with 2 human partners: {P78316;O75691}

26456 Pathogen[ P14075] interacts with 2 human partners: {P78316;O75691}

26457 Pathogen[ P0C206] interacts with 2 human partners: {P78316;O75691}

26458 Pathogen[ P03363] interacts with 2 human partners: {O75691;P78316}

26459 [Cluster 2406]GO:0006390+P biological\_process [name] transcription from mitochondrial promoter [def] "The synthesis of RNA from a mitochondrial DNA template, usually by a specific mitochondrial RNA polymerase." [GOC

26460 Pathogen[ Q2Q067] interacts with 7 human partners: {O00411;Q9H5Q4;Q99551;Q00059;P52815;Q7Z6M4;Q96QE5}

26461 Pathogen[ P0C214] interacts with 7 human partners: {O00411;Q96QE5;Q7Z6M4;Q00059;P52815;Q99551;Q9H5Q4}

26462 Pathogen[ P03346] interacts with 7 human partners: {Q00059;Q9H5Q4;O00411;Q99551;Q7Z6M4;Q96QE5;P52815}

26463 Pathogen[ Q85601] interacts with 7 human partners: {P52815;Q7Z6M4;Q96QE5;Q00059;Q99551;Q9H5Q4;O00411}

26464 Pathogen[ P14079] interacts with 6 human partners: {P52815;Q00059;O00411;Q7Z6M4;Q9H5Q4;Q99551}

26465 Pathogen[ P03383] interacts with 7 human partners: {Q00059;Q9H5Q4;Q99551;P52815;Q7Z6M4;O00411;Q96QE5}

26466 Pathogen[ P03410] interacts with 7 human partners: {Q00059;P52815;O00411;Q96QE5;Q9H5Q4;Q99551;Q7Z6M4}

26467 Pathogen[ P14075] interacts with 7 human partners: {Q00059;P52815;Q9H5Q4;O00411;Q99551;Q96QE5;Q7Z6M4}

26468 Pathogen[ P0C206] interacts with 7 human partners: {Q7Z6M4;Q96QE5;Q99551;Q9H5Q4;Q00059;P52815;O00411}

26469 Pathogen[ P03363] interacts with 6 human partners: {O00411;P52815;Q96QE5;Q00059;Q99551;Q9H5Q4}

26470 [Cluster 2407]GO:0046784+P biological\_process [name] intronless viral mRNA export from host nucleus [def] "The directed movement of intronless viral mRNA from the host nucleus to the cytoplasm for translation." [PMID

26471 Pathogen[ Q2Q067] interacts with 6 human partners: {Q96FV9;Q13838;Q6I9Y2;Q13769;Q86V81;Q8NI27}

26472 Pathogen[ P0C214] interacts with 6 human partners:{Q96FV9;Q86V81;Q13769;Q8NI27;Q13838;Q6I9Y2}

26473 Pathogen[ P03346] interacts with 7 human partners:{Q96FV9;Q13769;Q86V81;Q96J01;Q13838;Q8NI27;Q6I9Y2}

26474 Pathogen[ Q85601] interacts with 6 human partners:{Q13769;Q86V81;Q96FV9;Q13838;Q8NI27;Q6I9Y2}

26475 Pathogen[ P14079] interacts with 6 human partners:{Q8NI27;Q13838;Q96FV9;Q13769;Q6I9Y2;Q86V81}

26476 Pathogen[ P03383] interacts with 6 human partners:{Q8NI27;Q13769;Q13838;Q96FV9;Q86V81;Q6I9Y2}

26477 Pathogen[ P03410] interacts with 6 human partners:{Q13838;Q8NI27;Q96FV9;Q86V81;Q13769;Q6I9Y2}

26478 Pathogen[ P14075] interacts with 6 human partners:{Q86V81;Q13769;Q8NI27;Q6I9Y2;Q96FV9;Q13838}

26479 Pathogen[ P0C206] interacts with 6 human partners:{Q8NI27;Q13769;Q96FV9;Q13838;Q6I9Y2;Q86V81}

26480 Pathogen[ P03363] interacts with 7 human partners:{Q96J01;Q13769;Q8NI27;Q96FV9;Q86V81;Q13838;Q6I9Y2}

26481 [Cluster 2408]GO:0030163+P biological\_process [name] protein catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of a protein by the destruction of the native, active configuration, with or without the hydrolysis of peptide bonds." [GOC

26482 Pathogen[ Q2Q067] interacts with 13 human partners:{P31749;Q8IYW8;Q9Y3C4;Q12933;Q9Y297;Q9H4M3;Q6RSH7;Q8NI29;O15164;Q9NRD1;Q96EF6;Q00987;P62877}

26483 Pathogen[ P0C214] interacts with 18 human partners:{Q8IYW8;Q9Y3C4;Q00987;Q8NI29;Q8NG27;Q9NRD1;Q9Y297;P62877;Q6ZVX7;Q12933;O15164;P35998;Q96EF6;P31749;Q8IYW7;P17980;Q9H4M3;Q6RSH7}

26484 Pathogen[ P03346] interacts with 14 human partners:{Q6RSH7;Q00987;P62877;Q9Y3C4;Q8NI29;P31749;Q9H4M3;Q9NRD1;Q8IUQ4;Q96EF6;Q8IYW8;Q8NG27;Q9Y297;O15164}

26485 Pathogen[ Q85601] interacts with 15 human partners:{Q9H4M3;P31749;Q8IYW7;P62877;O15164;Q8NI29;Q12933;Q6ZVX7;Q6RSH7;Q96EF6;Q9Y3C4;Q00987;Q8NG27;Q8IYW8;Q9NRD1}

26486 Pathogen[ P14079] interacts with 22 human partners:{Q8NI29;P62333;O15164;Q6ZVX7;O14773;Q8IYW8;P35998;P62877;Q8IYW7;Q96EF6;Q00987;O75503;Q9NZ43;Q9Y3C4;Q9H4M3;Q12933;Q6RSH7;P62191;Q9NRD1;Q9NWW5;P43686;P17980}

26487 Pathogen[ P03383] interacts with 10 human partners:{Q8IYW8;P31749;Q8NI29;Q6RSH7;Q12933;Q9Y3C4;P62877;Q9NRD1;Q96EF6;Q9H4M3}

26488 Pathogen[ P03410] interacts with 19 human partners:{Q8IYW8;Q9H4M3;Q9NZ43;Q9NRD1;Q9NWW5;P35998;Q9Y3C4;P31749;Q8IYW7;Q6ZVX7;O75503;P62877;Q12933;Q8NI29;Q6RSH7;Q9UBY8;Q00987;Q96EF6;P17980}

26489 Pathogen[ P14075] interacts with 11 human partners:{Q9Y3C4;Q6RSH7;Q96EF6;Q6ZVX7;P31749;Q12933;Q8NI29;Q9H4M3;Q9NRD1;P62877;Q8IYW8}

26490 Pathogen[ P0C206] interacts with 16 human partners:{P62877;P31749;Q8NG27;Q9H4M3;Q8IUQ4;O15164;Q6ZVX7;Q12933;Q9NRD1;Q6RSH7;Q8IYW7;Q8IYW8;Q8NI29;Q9Y3C4;Q00987;Q96EF6}

26491 Pathogen[ P03363] interacts with 11 human partners:{Q8NI29;Q12933;Q8NG27;Q9H4M3;Q6RSH7;Q96EF6;P62877;Q9Y3C4;P31749;Q8IYW8;Q9NRD1}

26492 [Cluster 2409]GO:1900740+P

26493 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BXH1}

26494 Pathogen[ P0C214] interacts with 1 human partners:{Q9BXH1}

26495 Pathogen[ P03346] interacts with 1 human partners:{Q9BXH1}

26496 Pathogen[ Q85601] interacts with 1 human partners:{Q9BXH1}

26497 Pathogen[ P14079] interacts with 1 human partners:{Q9BXH1}

26498 Pathogen[ P03383] interacts with 1 human partners:{Q9BXH1}

26499 Pathogen[ P03410] interacts with 1 human partners:{Q9BXH1}

26500 Pathogen[ P14075] interacts with 1 human partners:{Q9BXH1}

26501 Pathogen[ P0C206] interacts with 1 human partners:{Q9BXH1}

26502 Pathogen[ P03363] interacts with 1 human partners:{Q9BXH1}

26503 [Cluster 2410]GO:0003160+P biological\_process [name] endocardium morphogenesis [def] "The process in which the anatomical structure of the endocardium is generated and organized. The endocardium is an anatomical structure comprised of an endothelium and an extracellular matrix that forms the innermost layer of tissue of the heart, and lines the heart chambers." [GOC

26504 Pathogen[ Q2Q067] interacts with 1 human partners:{Q06330}

26505 Pathogen[ P0C214] interacts with 1 human partners:{Q06330}

26506 Pathogen[ P03346] interacts with 1 human partners:{Q06330}

26507 Pathogen[ Q85601] interacts with 1 human partners:{Q06330}

26508 Pathogen[ P14079] interacts with 1 human partners:{Q06330}

26509 Pathogen[ P03383] interacts with 1 human partners:{Q06330}

26510 Pathogen[ P03410] interacts with 1 human partners:{Q06330}

26511 Pathogen[ P14075] interacts with 1 human partners:{Q06330}

26512 Pathogen[ P0C206] interacts with 1 human partners:{Q06330}

26513 Pathogen[ P03363] interacts with 1 human partners:{Q06330}

26514 [Cluster 2411]GO:0090361+P biological\_process [name] regulation of platelet-derived growth factor production [def] "Any process that modulates the rate, frequency, or extent of the appearance of any platelet-derived growth factor due to biosynthesis or secretion following a cellular stimulus, resulting in an increase in its intracellular or extracellular levels." [GOC]

26515 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UN36}

26516 Pathogen[ P0C214] interacts with 1 human partners:{Q9UN36}

26517 Pathogen[ P03346] interacts with 1 human partners:{Q9UN36}

26518 Pathogen[ Q85601] interacts with 1 human partners:{Q9UN36}

26519 Pathogen[ P14079] interacts with 1 human partners:{Q9UN36}

26520 Pathogen[ P03383] interacts with 1 human partners:{Q9UN36}

26521 Pathogen[ P03410] interacts with 1 human partners:{Q9UN36}

26522 Pathogen[ P14075] interacts with 1 human partners:{Q9UN36}

26523 Pathogen[ P0C206] interacts with 1 human partners:{Q9UN36}

26524 Pathogen[ P03363] interacts with 1 human partners:{Q9UN36}

26525 [Cluster 2412]GO:0032956+P biological\_process [name] regulation of actin cytoskeleton organization [def] "Any process that modulates the frequency, rate or extent of the formation, arrangement of constituent parts, or disassembly of cytoskeletal structures comprising actin filaments and their associated proteins." [GOC]

26526 Pathogen[ Q2Q067] interacts with 4 human partners:{P46108;Q9BVC4;Q8TE85;Q6R327}

26527 Pathogen[ P0C214] interacts with 4 human partners:{Q9BVC4;Q8TE85;Q6R327;P46108}

26528 Pathogen[ P03346] interacts with 4 human partners:{Q9BVC4;Q8TE85;P46108;Q6R327}

26529 Pathogen[ Q85601] interacts with 3 human partners:{Q8TE85;P46108;Q9BVC4}

26530 Pathogen[ P14079] interacts with 5 human partners:{Q6R327;Q8TE85;Q9BVC4;Q15078;P46108}

26531 Pathogen[ P03383] interacts with 1 human partners:{Q8TE85}

26532 Pathogen[ P03410] interacts with 4 human partners:{Q9BVC4;Q8TE85;Q6R327;P46108}

26533 Pathogen[ P14075] interacts with 2 human partners:{Q8TE85;Q6R327}

26534 Pathogen[ P0C206] interacts with 4 human partners:{Q8TE85;Q6R327;P46108;Q9BVC4}

26535 Pathogen[ P03363] interacts with 4 human partners:{Q9BVC4;Q8TE85;P46108;Q6R327}

26536 [Cluster 2413]GO:0090308+P biological\_process [name] regulation of methylation-dependent chromatin silencing [def] "Any process that modulates the rate, frequency, or extent of the repression of transcription by methylation of DNA, leading to the formation of heterochromatin." [GOC]

26537 Pathogen[ Q2Q067] interacts with 1 human partners:{Q01860}

26538 Pathogen[ P0C214] interacts with 1 human partners:{Q01860}

26539 Pathogen[ P03346] interacts with 1 human partners:{Q01860}

26540 Pathogen[ Q85601] interacts with 1 human partners:{Q01860}

26541 Pathogen[ P14079] interacts with 1 human partners:{Q01860}

26542 Pathogen[ P03383] interacts with 1 human partners:{Q01860}

26543 Pathogen[ P03410] interacts with 1 human partners:{Q01860}

26544 Pathogen[ P14075] interacts with 1 human partners:{Q01860}

26545 Pathogen[ P0C206] interacts with 1 human partners:{Q01860}

26546 Pathogen[ P03363] interacts with 1 human partners:{Q01860}

26547 [Cluster 2414]GO:0042660+P biological\_process [name] positive regulation of cell fate specification [def] "Any process that activates or enables a cell to adopt a specific fate." [GOC]

26548 Pathogen[ Q2Q067] interacts with 1 human partners:{Q99684}

26549 Pathogen[ P0C214] interacts with 1 human partners:{Q99684}

26550 Pathogen[ P03346] interacts with 1 human partners:{Q99684}

26551 Pathogen[ Q85601] interacts with 1 human partners:{Q99684}

26552 Pathogen[ P14079] interacts with 1 human partners:{Q99684}

26553 Pathogen[ P03383] interacts with 1 human partners:{Q99684}

26554 Pathogen[ P03410] interacts with 1 human partners:{Q99684}

26555 Pathogen[ P14075] interacts with 1 human partners:{Q99684}

26556 Pathogen[ P0C206] interacts with 1 human partners:{Q99684}

26557 Pathogen[ P03363] interacts with 1 human partners:{Q99684}

26558 [Cluster 2415]GO:000245+P biological\_process [name] spliceosome assembly [def] "The aggregation, arrangement and bonding together of the spliceosome, a ribonucleoprotein apparatus that catalyzes nuclear mRNA splicing via transesterification reactions." [PMID]

26559 Pathogen[ Q2Q067] interacts with 15 human partners:{P83876;Q15696;Q13838;O94906;P62314;P62304;Q8WXD5;Q92499;Q99590;P62316;Q15637;Q16637;P62308;Q9UMS4;O14893}

26560 Pathogen[ P0C214] interacts with 15 human partners:{Q16637;P62316;Q15637;Q8WXD5;P62308;O94906;Q9UMS4;P62314;Q15696;P83876;Q99590;Q92499;P62304;O14893;Q13838}

26561 Pathogen[ P03346] interacts with 17 human partners:{P62304;P83876;Q15637;Q9UMS4;Q8WXD5;O94906;Q16637;P52756;Q92499;Q13838;Q99590;P62314;Q9BZJ0;O14893;P62316;Q15696;P62308}

26562 Pathogen[ Q85601] interacts with 15 human partners:{Q15637;P62304;Q9UMS4;Q92499;P62316;O94906;P62314;Q13838;Q99590;P83876;O14893;P62308;Q15696;Q16637;Q8WXD5}

26563 Pathogen[ P14079] interacts with 15 human partners:{Q15637;O94906;O14893;P83876;Q13838;P62314;Q16637;Q9UMS4;P62308;Q15696;P62304;P62316;Q92499;P52756;Q8WXD5}

26564 Pathogen[ P03383] interacts with 14 human partners: {P83876;Q13838;P62316;P62304;Q8WXD5;O94906;Q16637;P62314;O14893;Q99590;P62308;Q92499;Q15637;Q9UMS4}

26565 Pathogen[ P03410] interacts with 15 human partners: {P83876;Q13838;Q8WXD5;O14893;P62304;Q15637;Q15696;P62308;P62316;O94906;Q16637;Q92499;P62314;Q9UMS4;Q99590}

26566 Pathogen[ P14075] interacts with 14 human partners: {P62304;P62316;Q8WXD5;P62308;O94906;Q16637;Q92499;Q15637;Q9UMS4;Q99590;P83876;O14893;P62314;Q13838}

26567 Pathogen[ P0C206] interacts with 15 human partners: {Q9UMS4;P83876;Q15696;Q8WXD5;P62304;Q15637;P62314;P62316;Q13838;Q99590;O14893;O94906;Q16637;P62308;Q92499}

26568 Pathogen[ P03363] interacts with 17 human partners: {P62314;P62304;O14893;P62316;Q15637;Q8WXD5;Q92499;Q13838;P83876;O94906;P62308;Q16637;Q9UMS4;Q99590;Q15696;Q9BZJ0;P52756}

26569 [Cluster 2416]GO:0007589+P biological\_process [name] body fluid secretion [def] "The controlled release of a fluid by a cell or group of cells in an animal." [GOC]

26570 Pathogen[ Q2Q067] interacts with 1 human partners: {Q99576}

26571 Pathogen[ P0C214] interacts with 1 human partners: {Q99576}

26572 Pathogen[ P03346] interacts with 1 human partners: {Q99576}

26573 Pathogen[ Q85601] interacts with 1 human partners: {Q99576}

26574 Pathogen[ P14079] interacts with 1 human partners: {Q99576}

26575 Pathogen[ P03383] interacts with 1 human partners: {Q99576}

26576 Pathogen[ P03410] interacts with 1 human partners: {Q99576}

26577 Pathogen[ P14075] interacts with 1 human partners: {Q99576}

26578 Pathogen[ P0C206] interacts with 1 human partners: {Q99576}

26579 Pathogen[ P03363] interacts with 1 human partners: {Q99576}

26580 [Cluster 2417]GO:0030718+P biological\_process [name] germ-line stem cell maintenance [def] "Any process involved in preventing uncommitted germ-line stem cells from differentiating as another cell type." [ISBN]

26581 Pathogen[ Q2Q067] interacts with 2 human partners: {Q92754;Q92793}

26582 Pathogen[ P0C214] interacts with 2 human partners: {Q92793;Q92754}

26583 Pathogen[ P03346] interacts with 2 human partners: {Q92754;Q92793}

26584 Pathogen[ Q85601] interacts with 2 human partners: {Q92754;Q92793}

26585 Pathogen[ P14079] interacts with 2 human partners: {Q92793;Q92754}

26586 Pathogen[ P03383] interacts with 2 human partners: {Q92754;Q92793}

26587 Pathogen[ P03410] interacts with 2 human partners: {Q92793;Q92754}

26588 Pathogen[ P14075] interacts with 2 human partners: {Q92754;Q92793}

26589 Pathogen[ P0C206] interacts with 2 human partners: {Q92793;Q92754}

26590 Pathogen[ P03363] interacts with 2 human partners: {Q92793;Q92754}

26591 [Cluster 2418]GO:0006203+P biological\_process [name] dGTP catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of dGTP, guanosine triphosphate." [ISBN]

26592 Pathogen[ Q2Q067] interacts with 1 human partners: {P36639}

26593 Pathogen[ P0C214] interacts with 1 human partners: {P36639}

26594 Pathogen[ P03346] interacts with 1 human partners: {P36639}

26595 Pathogen[ Q85601] interacts with 1 human partners: {P36639}

26596 Pathogen[ P14079] interacts with 1 human partners: {P36639}

26597 Pathogen[ P03383] interacts with 1 human partners: {P36639}

26598 Pathogen[ P03410] interacts with 1 human partners: {P36639}

26599 Pathogen[ P14075] interacts with 1 human partners: {P36639}

26600 Pathogen[ P0C206] interacts with 1 human partners: {P36639}

26601 Pathogen[ P03363] interacts with 1 human partners: {P36639}

26602 [Cluster 2419]GO:0032835+P biological\_process [name] glomerulus development [def] "The progression of the glomerulus over time from its initial formation until its mature state. The glomerulus is a capillary tuft which forms a close network with the visceral epithelium (podocytes) and the mesangium to form the filtration barrier and is surrounded by Bowman's capsule in nephrons of the vertebrate kidney. The glomerulus is part of the nephron and is restricted to one body segment." [GOC]

26603 Pathogen[ Q2Q067] interacts with 2 human partners: {Q9NQ87;Q9GZV5}

26604 Pathogen[ P0C214] interacts with 2 human partners: {Q9GZV5;Q9NQ87}

26605 Pathogen[ P03346] interacts with 3 human partners: {Q9GZV5;O43680;Q9NQ87}

26606 Pathogen[ Q85601] interacts with 2 human partners: {Q9GZV5;Q9NQ87}

26607 Pathogen[ P14079] interacts with 2 human partners: {Q9GZV5;Q9NQ87}

26608 Pathogen[ P03383] interacts with 2 human partners: {Q9NQ87;Q9GZV5}

26609 Pathogen[ P03410] interacts with 2 human partners: {Q9NQ87;Q9GZV5}

26610 Pathogen[ P14075] interacts with 2 human partners: {Q9GZV5;Q9NQ87}

26611 Pathogen[ P0C206] interacts with 2 human partners: {Q9NQ87;Q9GZV5}

26612 Pathogen[ P03363] interacts with 2 human partners: {Q9NQ87;Q9GZV5}

26613 [Cluster 2420]GO:0022604+P biological\_process [name] regulation of cell morphogenesis [def] "Any process that modulates the frequency, rate or extent of cell morphogenesis. Cell morphogenesis is the developmental process in which the shape of a cell is generated and organized." [GOC]

26614 Pathogen[ Q2Q067] interacts with 8 human partners: {Q5VSL9;P52742;A6NIX2;Q86UU0;P23528;Q8WWQ0;Q5T5Y3;Q5HYK7}

26615 Pathogen[ P0C214] interacts with 8 human

26616 partners: {P52742;Q5HYK7;Q5VSL9;A6NIX2;Q8WWQ0;Q5VZL5;Q5T5Y3;Q86UU0}  
Pathogen[ P03346] interacts with 8 human

26617 partners: {Q5T5Y3;P52742;Q8WWQ0;A6NIX2;Q5VSL9;Q5HYK7;Q86UU0;P23528}  
Pathogen[ Q85601] interacts with 11 human

26618 partners: {Q14202;Q5HYK7;A6NIX2;Q95789;Q86UU0;Q5VSL9;P52742;Q8WWQ0;Q5T5Y3;P23528;Q5VZL5}  
Pathogen[ P14079] interacts with 14 human

26619 partners: {Q8N6M3;P52742;Q95789;P47756;Q8WWQ0;Q14202;P23528;A6NIX2;Q71RC2;Q86UU0;Q5HYK7;Q5T5Y3;Q5VSL9;Q5VZL5}  
Pathogen[ P03383] interacts with 8 human

26620 partners: {Q5VSL9;Q5HYK7;A6NIX2;Q86UU0;P52742;Q5T5Y3;Q8WWQ0;P23528}  
Pathogen[ P03410] interacts with 14 human

26621 partners: {Q14202;Q71RC2;Q5HYK7;P47756;Q5VSL9;Q8N6M3;Q95789;Q5T5Y3;A6NIX2;Q8WWQ0;Q5VZL5;P23528;Q86UU0;P52742}  
Pathogen[ P14075] interacts with 10 human

26622 partners: {Q86UU0;Q8WWQ0;Q5VZL5;Q5HYK7;P23528;Q5VSL9;P52742;Q5T5Y3;A6NIX2;Q8N6M3}  
Pathogen[ P0C206] interacts with 13 human

26623 partners: {Q5VZL5;P47756;Q86UU0;Q5VSL9;A6NIX2;Q5T5Y3;Q8WWQ0;Q14202;Q8N6M3;Q5HYK7;P52742;P23528;Q95789}  
Pathogen[ P03363] interacts with 9 human

26624 [Cluster 2421]GO:0034502+P biological\_process [name] protein localization to chromosome [def] "Any process in which a protein is transported to, or maintained at, a specific location on a chromosome." [GOC

26625 Pathogen[ Q2Q067] interacts with 1 human partners: {Q9BSI4}

26626 Pathogen[ P0C214] interacts with 2 human partners: {Q9BSI4;Q9BXT5}

26627 Pathogen[ P03346] interacts with 2 human partners: {Q9BSI4;Q9BXT5}

26628 Pathogen[ Q85601] interacts with 1 human partners: {Q9BXT5}

26629 Pathogen[ P14079] interacts with 2 human partners: {Q9BXT5;Q9BSI4}

26630 Pathogen[ P03383] interacts with 1 human partners: {Q9BSI4}

26631 Pathogen[ P03410] interacts with 2 human partners: {Q9BSI4;Q9BXT5}

26632 Pathogen[ P14075] interacts with 2 human partners: {Q9BSI4;Q9BXT5}

26633 Pathogen[ P0C206] interacts with 2 human partners: {Q9BSI4;Q9BXT5}

26634 Pathogen[ P03363] interacts with 2 human partners: {Q9BSI4;Q9BXT5}

26635 [Cluster 2422]GO:0033674+P biological\_process [name] positive regulation of kinase activity [def] "Any process that activates or increases the frequency, rate or extent of kinase activity, the catalysis of the transfer of a phosphate group, usually from ATP, to a substrate molecule." [GOC

26636 Pathogen[ Q2Q067] interacts with 5 human  
partners: {P49959;Q8TCI5;Q96IF1;O60934;Q969S3}

26637 Pathogen[ P0C214] interacts with 3 human partners: {Q969S3;P49959;Q8TCI5}

26638 Pathogen[ P03346] interacts with 5 human  
partners: {Q969S3;Q96IF1;P49959;O60934;Q8TCI5}

26639 Pathogen[ Q85601] interacts with 5 human  
partners: {P49959;Q8TCI5;Q969S3;Q96IF1;O60934}

26640 Pathogen[ P14079] interacts with 4 human partners: {O60934;Q96IF1;Q8TCI5;Q969S3}

26641 Pathogen[ P03383] interacts with 2 human partners: {Q8TCI5;Q969S3}

26642 Pathogen[ P03410] interacts with 5 human  
partners: {P49959;Q969S3;Q96IF1;Q8TCI5;O60934}

26643 Pathogen[ P14075] interacts with 2 human partners: {Q969S3;Q8TCI5}

26644 Pathogen[ P0C206] interacts with 5 human  
partners: {Q8TCI5;P49959;Q96IF1;O60934;Q969S3}

26645 Pathogen[ P03363] interacts with 3 human partners: {Q8TCI5;Q96IF1;Q969S3}

26646 [Cluster 2423]GO:0031124+P biological\_process [name] mRNA 3'-end processing [def] "Any process involved in forming the mature 3' end of an mRNA molecule." [GOC

26647 Pathogen[ Q2Q067] interacts with 27 human  
partners: {P33240;Q86U42;P61326;Q01130;Q8N684;Q07955;Q9BZI7;Q16629;Q10570;Q12996;P84103;Q8IYB3;Q05048;Q94913;Q86V81;Q05519;P26368;Q9Y5S9;Q01081;Q9P2I0;Q13243;O43809;Q09161;P52298;Q9UKF6;O60508;P51003}

26648 Pathogen[ P0C214] interacts with 28 human  
partners: {Q12996;Q9BZI7;P26368;Q09161;Q94913;Q9UKF6;P84103;Q86V81;Q9Y5S9;P51003;O60508;Q05048;Q10570;Q8N684;Q07955;P52298;Q8IYB3;O43809;P61326;Q13243;Q9P2I0;Q05519;Q01081;P33240;Q15287;Q86U42;Q16629;Q01130}

26649 Pathogen[ P03346] interacts with 31 human  
partners: {Q9Y5S9;Q9BZI7;Q86U42;Q09161;Q08170;Q8IYB3;Q9UKF6;Q8N684;Q13242;Q13247;P52298;Q16629;Q07955;Q05048;Q86V81;O60508;P51003;Q94913;P26368;Q01081;P61326;O43809;P84103;Q15287;Q05519;Q01130;Q9P2I0;Q13243;Q10570;Q12996;P33240}

26650 Pathogen[ Q85601] interacts with 27 human  
partners: {Q9BZI7;Q8IYB3;Q13243;Q05048;Q01130;Q8N684;P61326;Q15287;Q94913;Q86V81;Q16629;Q07955;Q09161;O60508;Q10570;Q9P2I0;Q01081;Q05519;P84103;P52298;P26368;P51003;Q86U42;Q9UKF6;P33240;O43809;Q9Y5S9}

26651 Pathogen[ P14079] interacts with 27 human  
partners: {O43809;Q15287;O60508;Q9UKF6;Q10570;P52298;Q13243;Q9Y5S9;P33240;P26368;Q94913;Q05048;Q8IYB3;Q16629;P61326;Q9BZI7;Q05519;Q8N684;Q86V81;Q86U42;Q07955;Q01081;P51003;Q12996;Q09161;P84103;Q9P2I0}

26652 Pathogen[ P03383] interacts with 26 human

partners: {Q07955;Q15287;Q05048;P51003;Q9Y5S9;Q10570;P61326;P26368;Q13243;Q86V81;Q9UKF6;Q09161;Q16629;Q8N684;Q94913;Q8IYB3;P33240;P84103;Q01130;Q01081;O43809;P52298;Q05519;Q9P2I0;Q86U42;Q9BZI7}

26653 Pathogen[ P03410] interacts with 28 human  
partners: {Q01081;P26368;Q10570;P61326;O60508;Q12996;Q05048;Q16629;Q15287;Q9Y5S9;Q9BZI7;P51003;Q43809;Q05519;Q94913;Q07955;P52298;Q9P2I0;P33240;Q86V81;Q8IYB3;Q01130;Q9UKF6;Q8N684;Q09161;P84103;Q86U42;Q13243}

26654 Pathogen[ P14075] interacts with 26 human  
partners: {P51003;Q05519;Q09161;O43809;Q9P2I0;Q86V81;Q13243;P61326;Q01130;P33240;Q05048;Q15287;P26368;Q01081;Q8IYB3;Q9Y5S9;P84103;Q8N684;Q9UKF6;Q86U42;Q16629;Q10570;Q94913;Q07955;P52298;Q9BZI7}

26655 Pathogen[ P0C206] interacts with 28 human  
partners: {Q15287;P33240;Q9UKF6;O60508;Q9BZI7;Q07955;P26368;P52298;P61326;Q01081;Q09161;Q94913;Q05519;Q8IYB3;Q8N684;Q13243;Q16629;Q86U42;P51003;O43809;Q9P2I0;Q05048;Q12996;P84103;Q01130;Q9Y5S9;Q86V81;Q10570}

26656 Pathogen[ P03363] interacts with 32 human  
partners: {Q9P2I0;Q10570;Q08170;Q05048;Q16629;Q01130;Q86U42;Q92620;Q94913;P61326;Q05519;Q15287;Q8N684;Q13242;Q8IYB3;O43809;P26368;P51003;Q13243;Q86V81;P52298;Q07955;Q01081;Q9BZI7;Q13247;Q9UKF6;P84103;P33240;Q9Y5S9;Q12996;O60508;Q09161}

26657 [Cluster 2424]GO:0045766+P biological\_process [name] positive regulation of angiogenesis [def] "Any process that activates or increases angiogenesis." [GOC]

26658 Pathogen[ Q2Q067] interacts with 7 human  
partners: {P14921;Q01196;Q86UE4;P62324;P23769;P29474;Q5UE93}

26659 Pathogen[ P0C214] interacts with 7 human  
partners: {P29474;P14921;P23769;P05121;Q86UE4;Q5UE93;P62324}

26660 Pathogen[ P03346] interacts with 8 human  
partners: {Q86UE4;P29474;P23769;Q86Z02;P14921;Q01196;Q5UE93;P62324}

26661 Pathogen[ Q85601] interacts with 7 human  
partners: {P14921;P23769;P62324;Q86UE4;P05121;P29474;Q5UE93}

26662 Pathogen[ P14079] interacts with 6 human  
partners: {Q86V25;P62324;O60895;Q86UE4;P23769;Q5UE93}

26663 Pathogen[ P03383] interacts with 6 human  
partners: {P29474;P62324;Q86UE4;P14921;P23769;Q5UE93}

26664 Pathogen[ P03410] interacts with 9 human  
partners: {P05121;Q5UE93;O60895;P29474;P62324;Q86UE4;P23769;Q86V25;P14921}

26665 Pathogen[ P14075] interacts with 6 human  
partners: {P29474;P62324;Q86UE4;P23769;Q5UE93;P14921}

26666 Pathogen[ P0C206] interacts with 8 human  
partners: {P62324;P14921;P23769;P29474;P05121;Q5UE93;Q86UE4;Q86V25}

26667 Pathogen[ P03363] interacts with 7 human  
partners: {P29474;P14921;Q8N302;Q86UE4;Q86V25;Q5UE93;P62324}

26668 [Cluster 2425]GO:0007259+P biological\_process [name] JAK-STAT cascade [def] "Any process in which STAT proteins (Signal Transducers and Activators of Transcription) and JAK (Janus Activated Kinase) proteins convey a signal to trigger a change in the activity or state of a cell. The JAK-STAT cascade begins with activation of STAT proteins by members of the JAK family of tyrosine kinases, proceeds through dimerization and subsequent nuclear translocation of STAT proteins, and ends with regulation of target gene expression by STAT proteins." [GOC]

26669 Pathogen[ Q2Q067] interacts with 8 human  
partners: {O75925;P40763;Q6PD62;Q14765;Q13287;O14508;P52630;P42224}

26670 Pathogen[ P0C214] interacts with 9 human  
partners: {O75925;Q14765;P42224;O14508;P40763;P52630;O15524;Q6PD62;Q13287}

26671 Pathogen[ P03346] interacts with 10 human  
partners: {Q6PD62;O15524;O95630;Q13287;O14508;O75925;P42224;Q14765;P52630;P40763}

26672 Pathogen[ Q85601] interacts with 9 human  
partners: {Q6PD62;Q14765;P40763;O14508;P52630;P42224;O95630;O75925;Q13287}

26673 Pathogen[ P14079] interacts with 7 human  
partners: {P52630;Q14765;Q6PD62;P42224;O14508;O75925;Q13287}

26674 Pathogen[ P03383] interacts with 4 human partners: {O75925;Q6PD62;P52630;Q13287}

26675 Pathogen[ P03410] interacts with 7 human  
partners: {O75925;Q6PD62;Q14765;Q13287;O14508;P52630;P40763}

26676 Pathogen[ P14075] interacts with 4 human partners: {P52630;Q13287;O75925;Q6PD62}

26677 Pathogen[ P0C206] interacts with 10 human  
partners: {Q6PD62;O75925;O95630;O15524;Q13287;O14508;P40763;Q14765;P42224;P52630}

26678 Pathogen[ P03363] interacts with 7 human  
partners: {P52630;Q14765;O15524;O75925;O14508;Q13287;Q6PD62}

26679 [Cluster 2426]GO:0070498+P biological\_process [name] interleukin-1-mediated signaling pathway [def] "A series of molecular signals generated as a consequence of interleukin-1 binding to a cell surface receptor." [GOC]

26680 Pathogen[ Q2Q067] interacts with 3 human partners: {O75582;Q8NFZ5;P18146}

26681 Pathogen[ P0C214] interacts with 3 human partners: {O75582;Q8NFZ5;P18146}

26682 Pathogen[ P03346] interacts with 3 human partners: {Q8NFZ5;O75582;P18146}

26683 Pathogen[ Q85601] interacts with 3 human partners: {P18146;Q8NFZ5;O75582}

26684 Pathogen[ P14079] interacts with 3 human partners: {O43187;O75582;Q8NFZ5}

26685 Pathogen[ P03383] interacts with 3 human partners: {O75582;P18146;Q8NFZ5}

26686 Pathogen[ P03410] interacts with 4 human partners: {Q8NFZ5;O75582;O43187;P18146}

26687 Pathogen[ P14075] interacts with 3 human partners:{O75582;P18146;Q8NFZ5}  
26688 Pathogen[ P0C206] interacts with 3 human partners:{O75582;Q8NFZ5;P18146}  
26689 Pathogen[ P03363] interacts with 2 human partners:{P18146;Q8NFZ5}  
26690 [Cluster 2427]GO:0046022+P biological\_process [name] positive regulation of transcription from RNA polymerase II promoter during mitosis [def] "Any process that activates or increases the frequency, rate or extent of transcription from an RNA polymerase II promoter during mitosis." [GOC  
26691 Pathogen[ Q2Q067] interacts with 1 human partners:{P15407}  
26692 Pathogen[ P0C214] interacts with 2 human partners:{P15407;P17275}  
26693 Pathogen[ P03346] interacts with 3 human partners:{P17275;Q9HCS4;P15407}  
26694 Pathogen[ Q85601] interacts with 3 human partners:{P15407;Q9HCS4;P17275}  
26695 Pathogen[ P14079] interacts with 2 human partners:{P17275;P15407}  
26696 Pathogen[ P03383] interacts with 2 human partners:{P15407;P17275}  
26697 Pathogen[ P03410] interacts with 3 human partners:{P17275;Q9HCS4;P15407}  
26698 Pathogen[ P14075] interacts with 2 human partners:{P17275;P15407}  
26699 Pathogen[ P0C206] interacts with 3 human partners:{P15407;P17275;Q9HCS4}  
26700 Pathogen[ P03363] interacts with 3 human partners:{Q9HCS4;P17275;P15407}  
26701 [Cluster 2428]GO:0007018+P biological\_process [name] microtubule-based movement [def] "A microtubule-based process that is mediated by motor proteins and results in the movement of organelles, other microtubules, or other particles along microtubules." [GOC  
26702 Pathogen[ Q2Q067] interacts with 13 human partners:{Q8TF09;Q9H1H9;Q14204;Q9NP97;Q96Q89;Q8TD16;Q9H0B6;Q02241;O00139;Q07866;Q13409;Q92845;O14576}  
26703 Pathogen[ P0C214] interacts with 12 human partners:{Q07866;Q02241;Q8TF09;Q14204;O00139;Q9H0B6;Q96Q89;Q8TD16;Q92845;O14576;Q9NP97;Q13409}  
26704 Pathogen[ P03346] interacts with 15 human partners:{Q15058;O14576;Q12840;O00139;Q9H1H9;Q14204;Q8TF09;Q96Q89;Q8TD16;Q02241;Q13409;Q92845;Q9NP97;Q9H0B6;Q07866}  
26705 Pathogen[ Q85601] interacts with 16 human partners:{Q13409;Q9NP97;Q02241;Q14204;Q9H1H9;Q96015;Q12840;Q96Q89;Q15058;O14576;Q8TD16;Q92845;Q8TF09;Q07866;O00139;Q9H0B6}  
26706 Pathogen[ P14079] interacts with 26 human partners:{Q8TF09;Q6ZMV9;Q07866;Q9NZ32;Q12840;Q02241;Q14204;Q7Z4S6;P68363;Q9NP97;O15066;Q99661;Q96Q89;Q60282;O00139;Q15058;Q9H1H9;Q13409;Q86Y91;Q5T7B8;O14576;Q92845;Q96015;Q95235;Q9H0B6;Q8TD16}  
26707 Pathogen[ P03383] interacts with 8 human partners:{Q02241;Q9H0B6;Q9H1H9;Q9NP97;Q96Q89;Q07866;Q92845;Q8TF09}  
26708 Pathogen[ P03410] interacts with 27 human partners:{Q86Y91;Q14204;Q96Q89;Q15058;Q07866;Q13409;Q9NP97;Q9H0B6;O00139;Q8TF09;Q9NZ32;Q9H1H9;Q60282;Q7Z4S6;Q92845;Q8TD16;Q12840;Q60333;O14576;Q6ZMV9;Q9BVA1;P68363;P33176;Q5T7B8;Q96015;Q02241;Q6PJI1}  
26709 Pathogen[ P14075] interacts with 9 human partners:{Q9NP97;Q9H1H9;Q02241;Q92845;Q8TF09;O00139;Q07866;Q9H0B6;Q96Q89}  
26710 Pathogen[ P0C206] interacts with 19 human partners:{Q9NP97;O14576;Q96Q89;Q92845;Q9NZ32;Q8TF09;Q9H1H9;Q02241;Q13409;Q86Y91;Q14204;Q9H0B6;Q12840;O00139;Q15058;Q9BW19;Q8TD16;Q96015;Q07866}  
26711 Pathogen[ P03363] interacts with 27 human partners:{Q92845;Q2VIQ3;P33176;P68363;Q14204;Q02241;Q7Z4S6;Q07866;Q14807;Q6ZMV9;Q60282;Q13748;Q9H0B6;Q8TF09;Q9NZ32;Q5T7B8;Q13409;O15066;Q15058;Q96Q89;Q60333;Q9H1H9;Q9NP97;O00139;Q8TD16;O14576;Q12840}  
26712 [Cluster 2429]GO:0045945+P biological\_process [name] positive regulation of transcription from RNA polymerase III promoter [def] "Any process that activates or increases the frequency, rate or extent of transcription from an RNA polymerase III promoter." [GOC  
26713 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9HCK8;P49715}  
26714 Pathogen[ P0C214] interacts with 1 human partners:{Q9HCK8}  
26715 Pathogen[ P03346] interacts with 2 human partners:{P49715;Q9HCK8}  
26716 Pathogen[ Q85601] interacts with 2 human partners:{Q9HCK8;P49715}  
26717 Pathogen[ P14079] interacts with 2 human partners:{P49715;Q9HCK8}  
26718 Pathogen[ P03383] interacts with 1 human partners:{Q9HCK8}  
26719 Pathogen[ P03410] interacts with 1 human partners:{Q9HCK8}  
26720 Pathogen[ P14075] interacts with 1 human partners:{Q9HCK8}  
26721 Pathogen[ P0C206] interacts with 2 human partners:{Q9HCK8;P49715}  
26722 Pathogen[ P03363] interacts with 1 human partners:{Q9HCK8}  
26723 [Cluster 2430]GO:0003310+P biological\_process [name] pancreatic A cell differentiation [def] "The process in which relatively unspecialized cells acquire specialized structural and functional features of a pancreatic A cell. A pancreatic A cell is a cell in the pancreas that secretes glucagon." [GOC  
26724 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8HWS3}  
26725 Pathogen[ P0C214] interacts with 1 human partners:{Q8HWS3}  
26726 Pathogen[ P03346] interacts with 1 human partners:{Q8HWS3}  
26727 Pathogen[ Q85601] interacts with 1 human partners:{Q8HWS3}  
26728 Pathogen[ P14079] interacts with 1 human partners:{Q8HWS3}  
26729 Pathogen[ P03383] interacts with 1 human partners:{Q8HWS3}  
26730 Pathogen[ P03410] interacts with 1 human partners:{Q8HWS3}

26731 Pathogen[ P14075] interacts with 1 human partners:{Q8HWS3}

26732 Pathogen[ P0C206] interacts with 1 human partners:{Q8HWS3}

26733 Pathogen[ P03363] interacts with 1 human partners:{Q8HWS3}

26734 [Cluster 2431]GO:0051649+P biological\_process [name] establishment of localization in cell [def] "The directed movement of a substance or cellular entity, such as a protein complex or organelle, to a specific location within, or in the membrane of, a cell." [GOC

26735 Pathogen[ Q2Q067] interacts with 1 human partners:{095229}

26736 Pathogen[ P0C214] interacts with 1 human partners:{095229}

26737 Pathogen[ P03346] interacts with 1 human partners:{095229}

26738 Pathogen[ Q85601] interacts with 1 human partners:{095229}

26739 Pathogen[ P14079] interacts with 1 human partners:{095229}

26740 Pathogen[ P03383] interacts with 1 human partners:{095229}

26741 Pathogen[ P03410] interacts with 1 human partners:{095229}

26742 Pathogen[ P14075] interacts with 1 human partners:{095229}

26743 Pathogen[ P0C206] interacts with 1 human partners:{095229}

26744 Pathogen[ P03363] interacts with 1 human partners:{095229}

26745 [Cluster 2432]GO:0010498+P biological\_process [name] proteasomal protein catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of a protein or peptide by hydrolysis of its peptide bonds that is mediated by the proteasome." [GOC

26746 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13794}

26747 Pathogen[ P0C214] interacts with 1 human partners:{Q13794}

26748 Pathogen[ P03346] interacts with 1 human partners:{Q13794}

26749 Pathogen[ Q85601] interacts with 1 human partners:{Q13794}

26750 Pathogen[ P14079] interacts with 1 human partners:{Q13794}

26751 Pathogen[ P03383] interacts with 1 human partners:{Q13794}

26752 Pathogen[ P03410] interacts with 1 human partners:{Q13794}

26753 Pathogen[ P14075] interacts with 1 human partners:{Q13794}

26754 Pathogen[ P0C206] interacts with 1 human partners:{Q13794}

26755 Pathogen[ P03363] interacts with 1 human partners:{Q13794}

26756 [Cluster 2433]GO:0032007+P biological\_process [name] negative regulation of TOR signaling cascade [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of signaling via the TOR signaling pathway." [GOC

26757 Pathogen[ Q2Q067] interacts with 2 human partners:{Q8IYW8;Q96B36}

26758 Pathogen[ P0C214] interacts with 3 human partners:{Q8IYW8;Q96B36;Q8IYW7}

26759 Pathogen[ P03346] interacts with 3 human partners:{Q96B36;Q8IYW8;Q8TB45}

26760 Pathogen[ Q85601] interacts with 3 human partners:{Q8IYW7;Q96B36;Q8IYW8}

26761 Pathogen[ P14079] interacts with 6 human partners:{Q8IYW8;Q8IYW7;Q9NX09;Q8TB45;Q96B36;O75204}

26762 Pathogen[ P03383] interacts with 2 human partners:{Q8IYW8;Q96B36}

26763 Pathogen[ P03410] interacts with 6 human partners:{Q8IYW8;Q8IYW7;Q96B36;O75204;Q8TB45;Q9NX09}

26764 Pathogen[ P14075] interacts with 2 human partners:{Q96B36;Q8IYW8}

26765 Pathogen[ P0C206] interacts with 3 human partners:{Q96B36;Q8IYW7;Q8IYW8}

26766 Pathogen[ P03363] interacts with 3 human partners:{Q96B36;Q8TB45;Q8IYW8}

26767 [Cluster 2434]GO:0009887+P biological\_process [name] organ morphogenesis [def] "Morphogenesis of an organ. An organ is defined as a tissue or set of tissues that work together to perform a specific function or functions. Morphogenesis is the process in which anatomical structures are generated and organized. Organs are commonly observed as visibly distinct structures, but may also exist as loosely associated clusters of cells that work together to perform a specific function or functions." [GOC

26768 Pathogen[ Q2Q067] interacts with 26 human partners:{O43365;O14786;Q99502;P10827;Q04726;Q92922;Q01543;O14639;P10828;Q04206;O95948;Q86YC2;P59047;O75496;Q9Y603;Q13616;Q16254;P23760;Q04725;O75360;O43186;Q13642;Q04724;Q9BX26;Q14129;P40424}

26769 Pathogen[ P0C214] interacts with 29 human partners:{P40424;Q9UI08;Q16254;P32243;O43365;O14786;P22735;O43186;O75496;Q04206;O14639;Q04724;Q14129;P53701;Q92922;Q13642;Q04726;Q9Y603;Q01543;Q13616;O75360;Q86YC2;Q9BX26;Q04725;P10828;O95948;P59047;P23760;Q99502}

26770 Pathogen[ P03346] interacts with 44 human partners:{P31271;P59047;P47902;Q3YBM2;O75364;P10827;O14639;Q13616;Q9BX26;Q99626;P41225;P23760;Q04206;Q14129;O43186;Q9UI08;Q99502;Q16254;O43316;P78426;O43680;O43365;Q04726;Q9C0J9;Q96922;O95948;Q04725;Q04724;Q02548;P46109;Q86YC2;Q13642;O95475;Q92922;P10828;Q9UBR4;P40424;O75360;P22735;Q9Y603;P32243;O14786;Q01543;O75496}

26771 Pathogen[ Q85601] interacts with 28 human partners:{O14639;O75496;O75360;O43316;Q04724;Q9Y603;Q13616;Q13642;Q9BX26;O14786;Q04725;P40424;Q04726;O95948;Q04206;Q99502;Q01543;Q16254;Q86YC2;P10827;P32243;P31271;O43365;P10828;Q14129;Q92922;P23760;P59047}

26772 Pathogen[ P14079] interacts with 34 human partners:{Q04725;P15502;Q99502;P22735;Q16254;P10828;O95948;P46109;O14639;Q92922;Q14129;Q86YC2;P31271;P10827;Q01543;Q13642;Q14353;O94772;O75360;Q53GA4;P13232;Q9Y603;O43365;Q04726;Q9BX26;P32243;Q04724;Q13616;P53701;P59047;O75496;Q3YBM2;Q9UI08;P23760}

26773 Pathogen[ P03383] interacts with 24 human partners:{Q13616;P32243;Q14129;O14639;P40424;Q3YBM2;O75360;O43365;Q04724;Q04726;Q04725;Q16254;Q01543;O43186;P23760;Q04206;Q86YC2;Q92922;P10828;Q13642;Q9Y603;P15502;O754



96;Q9BX26}  
26774 Pathogen[ P03410] interacts with 35 human  
partners:{O14786;Q04206;Q14129;Q14353;Q9UI08;Q04726;Q99502;Q53GA4;Q16254;O14639;Q047  
24;P59047;O95948;P10828;Q9Y603;P15502;Q9BX26;P53701;Q92922;Q13642;Q13616;P32243;O754  
96;P23760;Q3YBM2;O75360;P40424;O94772;Q86YC2;P46109;O43365;Q01543;Q04725;P13232;P227  
35}  
26775 Pathogen[ P14075] interacts with 25 human  
partners:{Q14129;Q04206;P40424;Q04725;Q01543;P10828;Q86YC2;Q9BX26;O43186;Q92922;Q9Y6  
03;O43365;Q13642;Q04726;Q3YBM2;Q16254;O75360;O14639;P15502;Q04724;Q99502;P23760;Q136  
16;O75496;P32243}  
26776 Pathogen[ P0C206] interacts with 37 human  
partners:{P53701;O75496;Q13642;O43365;Q86YC2;P15502;Q02548;Q04726;Q9C0J9;Q92922;Q047  
25;Q9UI08;Q13616;Q9Y603;Q9BX26;Q16254;P40424;Q969G2;O14786;O75360;P10828;P59047;P322  
43;Q3YBM2;Q04206;P23760;Q04724;Q99502;P31271;Q14129;O14639;Q9UBR4;P22735;Q01543;O433  
16;P10827;O95948}  
26777 Pathogen[ P03363] interacts with 35 human  
partners:{P10828;O95948;P47902;O75360;Q04206;Q99626;O14786;O43365;P23760;P31271;Q015  
43;Q9C0J9;Q16254;O43316;Q04726;P46109;Q9Y603;P32243;Q04724;Q3YBM2;Q13616;Q9UI08;O431  
86;P59047;Q14129;O75496;Q04725;P40424;Q13642;Q02548;O95475;Q92922;Q9BX26;O14639;Q86Y  
C2}  
26778 [Cluster 2435]GO:0060416+P biological\_process [name] response to growth hormone  
stimulus [def] "Any process that results in a change in state or activity of a cell  
or an organism (in terms of movement, secretion, enzyme production, gene expression,  
etc.) as a result of a growth hormone stimulus. Growth hormone is a peptide hormone that  
binds to the growth hormone receptor and stimulates growth." [GOC  
26779 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9HB71;P10914}  
26780 Pathogen[ P0C214] interacts with 2 human partners:{P10914;Q9HB71}  
26781 Pathogen[ P03346] interacts with 3 human partners:{Q9HB71;P10914;O95361}  
26782 Pathogen[ Q85601] interacts with 2 human partners:{P10914;Q9HB71}  
26783 Pathogen[ P14079] interacts with 3 human partners:{Q9HB71;O95361;P10914}  
26784 Pathogen[ P03383] interacts with 2 human partners:{P10914;Q9HB71}  
26785 Pathogen[ P03410] interacts with 2 human partners:{Q9HB71;P10914}  
26786 Pathogen[ P14075] interacts with 2 human partners:{P10914;Q9HB71}  
26787 Pathogen[ P0C206] interacts with 3 human partners:{P10914;Q9HB71;O95361}  
26788 Pathogen[ P03363] interacts with 2 human partners:{Q9HB71;P10914}  
26789 [Cluster 2436]GO:0007596+P biological\_process [name] blood coagulation [def] "The  
sequential process in which the multiple coagulation factors of the blood interact,  
ultimately resulting in the formation of an insoluble fibrin clot\_ it may be divided  
into three stages  
26790 Pathogen[ Q2Q067] interacts with 59 human  
partners:{Q9NQG7;Q9UL45;P46108;P31749;O15525;O00186;P63104;P07737;Q13356;Q8WW38;P010  
09;Q13547;Q6QNY0;P14316;P56945;Q96EV8;P15976;Q9BWX5;Q96ST3;P23528;Q9UKL0;Q07021;O435  
02;P23769;P62328;Q96BD5;Q9ULX9;Q8WYR1;P68871;P10914;Q13310;Q92769;P29474;P08697;Q130  
94;Q16621;Q8IX07;Q9H0B6;Q02241;O00139;Q07866;O60675;P42768;Q5JVS0;P60953;P27986;P630  
00;Q92845;P24941;Q15652;P45973;Q86YV9;Q5UE93;P10242;Q8TDN4;P61586;P62937;Q9P0W2;Q9UP  
Z3}  
26791 Pathogen[ P0C214] interacts with 71 human  
partners:{Q13310;Q9NQG7;P29474;Q07866;P08697;P60709;P63000;Q5JVS0;Q9UK55;Q13547;P569  
45;P02042;Q02241;P62993;Q99698;Q16621;P23769;P61586;O00186;Q96BD5;P60953;P10914;Q86Y  
V9;O00139;P05121;Q13094;Q6QNY0;Q9H0B6;Q8TDN4;P18545;P10124;P68871;P69892;P49257;Q9P0  
W2;Q8WYR1;Q13356;Q9UKL0;Q92769;Q8WW38;Q15652;Q9UL45;P05546;O43502;P02100;P24941;Q9UL  
X9;Q5UE93;O15525;P07093;P01008;Q96EV8;Q8IX07;Q92845;P10242;P10909;P05120;Q96ST3;P459  
73;O76083;P46108;P69891;P42768;Q5VZK9;P63261;P27986;O60675;P14316;P31749;P62328;Q9UP  
Z3}  
26792 Pathogen[ P03346] interacts with 69 human  
partners:{Q9NQG7;Q96ST3;Q86YV9;Q16621;Q99698;P45973;Q12840;Q9UKL0;P29474;Q9P0W2;Q8WY  
R1;Q8WW38;O43502;P42768;Q9BWX5;O00139;P02100;P49257;P14316;P23769;P24941;P62937;P607  
09;Q07021;P60953;P62993;Q8TDN4;Q15652;Q9NRF2;Q9ULX9;O00186;Q6QNY0;Q9Y6F6;Q9BZ29;P102  
42;P56945;P15976;P31749;Q96EV8;P10914;O15315;Q92769;Q13094;Q13547;Q8IX07;Q9UL45;Q133  
56;P46108;Q02241;P68871;O15525;Q96BD5;Q5JVS0;P63104;P62328;P01009;Q5UE93;Q13310;Q928  
45;P07737;P23528;O60675;P63000;Q9UPZ3;Q5VZK9;P27986;Q9H0B6;Q07866;P61586}  
26793 Pathogen[ Q85601] interacts with 74 human  
partners:{Q9NQG7;Q9UPZ3;O00186;Q6QNY0;P63104;O43502;O15315;P31749;P62993;P14316;Q022  
41;Q5JVS0;Q9P0W2;Q9BWX5;P15976;Q96BD5;Q8WW38;Q16621;Q13310;P02042;P23769;P63000;P102  
42;P46108;Q8TDN4;O15525;P02100;P08697;Q86YV9;P10914;P27986;Q12840;P07737;P60709;P010  
09;P69892;P56945;Q96EV8;Q5VZK9;P49257;Q92769;P63261;P45973;P42768;Q8IX07;P05121;P615  
86;Q13356;P29474;P68871;P05120;P01008;P60953;P62328;Q92845;Q8WYR1;P69891;Q13547;P235  
28;Q15652;P07093;O60675;Q07021;Q9UKL0;Q5UE93;P62937;P24941;Q07866;O00139;Q9H0B6;Q9UL  
X9;Q99698;Q13094;Q96ST3}  
26794 Pathogen[ P14079] interacts with 79 human  
partners:{Q9NQG7;Q9NRQ2;Q86YV9;Q5JVS0;O15315;P02042;P49257;Q8N6Q3;P69891;P63261;Q142  
42;Q9BWX5;Q01518;Q6QNY0;P02100;Q07866;Q96ST3;Q12840;Q08722;Q9H1K0;P47756;Q13094;Q022  
41;Q8WYR1;O60675;Q92902;P07737;Q13310;P15976;P10909;P62937;Q15652;P63104;P45973;O001  
86;O15066;P68871;P18545;Q8TDN4;P08758;Q9P0W2;Q99661;Q8NCG7;Q13356;Q96BD5;Q9UPZ3;Q927  
69;Q9UL45;P23528;O00139;P62328;P61586;P60709;Q8IX07;P10124;Q9UKL0;Q9ULX9;Q16621;O435  
02;P62993;O15525;O43561;Q96EV8;Q9Y6F6;P13928;Q92845;P10242;Q99698;Q07021;Q9H0B6;P698

26795 Pathogen[ P03383] interacts with 54 human partners: {Q9NQG7;P27986;Q6QNY0;P10914;P56945;P14316;Q5JVS0;P29474;Q02241;Q13356;Q8WW38;P31749;Q96BD5;P60953;P62328;P08697;Q00186;P62937;P23769;P63000;P68871;Q9H0B6;P07737;Q96EV8;O15525;P01009;P01008;Q16621;P45973;Q15652;P63104;P61586;P24941;Q92769;P42768;Q86YV9;Q8TDN4;Q07866;Q13094;Q9P0W2;Q13547;P10124;Q9UKL0;P10242;Q07021;Q8WYR1;Q9UPZ3;Q9UE93;O60675;Q96ST3;Q13310;Q92845;P23528;Q9ULX9}

26796 Pathogen[ P03410] interacts with 87 human partners: {Q9NQG7;O00203;Q13094;P27986;P05121;O60675;Q5UE93;Q8NCG7;Q07866;P62328;P02100;Q8WYR1;Q8N6Q3;P47756;Q9H0B6;O00139;P49257;Q15652;P63000;O15315;Q92902;Q6QNY0;Q14242;P10242;P10124;O43561;Q9NRQ2;Q9P0W2;Q92845;Q9Y6F6;Q07021;P31749;P45973;P42768;Q12840;Q96ST3;Q8WW38;Q9UL45;Q13356;O15525;P29474;Q8IX07;P62937;P68871;Q92769;Q9BWX5;Q9UPZ3;O43502;P18545;Q86YV9;P61586;P24941;P08697;Q16621;Q5JVS0;Q08722;P10914;Q9ULX9;Q9H1K0;P02042;P63104;P60953;P23769;P46108;P56945;Q13547;Q99698;P63261;Q5VZK9;P01009;P14316;Q96BD5;Q01518;Q9UKL0;P23528;O00186;P69892;P62993;Q8TDN4;P07737;Q13310;Q96EV8;P15976;P60709;Q02241;P10909;P69891}

26797 Pathogen[ P14075] interacts with 54 human partners: {P60953;Q9NQG7;P29474;P68871;Q96ST3;P24941;Q02241;Q07021;Q8WYR1;O00186;P62328;Q92845;P23769;Q9UKL0;Q9Y6F6;P42768;Q15652;O60675;Q5UE93;Q9ULX9;P45973;P01009;Q8WW38;P10242;Q13547;P07737;P23528;P31749;Q13310;O00139;Q92769;Q5JVS0;P27986;Q86YV9;Q6QNY0;P63104;P08697;Q96BD5;P61586;Q9UPZ3;P14316;Q13094;P63000;O15525;Q96EV8;P62937;P10124;Q16621;Q07866;Q9H0B6;P10914;Q8TDN4;Q9P0W2;P56945}

26798 Pathogen[ P0C206] interacts with 81 human partners: {O43502;Q9NQG7;P68871;P10914;Q92769;P60709;P45973;Q96ST3;P31749;P01008;Q9UL45;Q8TDN4;P47756;Q92845;P02100;P69892;P18545;Q9UPZ3;Q07021;P62328;Q9UKL0;Q9H1K0;Q8WW38;P10242;Q99698;Q13547;P01009;O15525;P15976;Q02241;P27986;P62993;P61586;P69891;Q9BWX5;P30291;P63104;Q9H0B6;Q9P0W2;Q5JVS0;Q13310;P63000;Q5VZK9;Q96EV8;P63261;O15315;P49257;Q9Y6F6;P10909;Q12840;P60953;O00139;Q15652;Q13356;P23769;P29474;Q8IX07;P05121;Q16621;Q5UE93;P56945;P46108;Q6QNY0;Q13094;P42768;P07737;Q86YV9;O60675;P02042;Q9BW19;P23528;P24941;P62937;P14316;P10124;Q96BD5;Q07866;Q9ULX9;O00186;P08697;Q8WYR1}

26799 Pathogen[ P03363] interacts with 60 human partners: {Q9NQG7;Q92845;P29474;P62937;Q8WYR1;Q2VIQ3;P60709;P68871;Q9UPZ3;P62328;P45973;Q5VZK9;Q13356;P42768;Q02241;Q16621;P24941;Q15652;P63000;Q07866;Q14807;Q07021;Q96BD5;P63104;Q9H0B6;Q92902;Q99698;Q5UE93;P31749;P14316;Q5JVS0;O15525;Q13310;Q96ST3;P10914;P23528;P46108;Q13547;O00186;O15066;Q9BWX5;P10242;P56945;Q8TDN4;P63261;O60675;Q9Y6F6;Q9UKL0;Q8WW38;O00139;Q9P0W2;Q9ULX9;P60953;P27986;Q6QNY0;Q12840;P07737;Q13094;O43502;O15315}

26800 [Cluster 2437]GO:0009294+P biological\_process [name] DNA mediated transformation [def] "The introduction and uptake of foreign genetic material (DNA or RNA) into a cell, and often the expression of that genetic material." [ISBN

26801 Pathogen[ Q2Q067] interacts with 1 human partners: {Q13129}

26802 Pathogen[ P0C214] interacts with 1 human partners: {Q13129}

26803 Pathogen[ P03346] interacts with 1 human partners: {Q13129}

26804 Pathogen[ Q85601] interacts with 1 human partners: {Q13129}

26805 Pathogen[ P14079] interacts with 2 human partners: {Q13129;Q9UQE7}

26806 Pathogen[ P03383] interacts with 1 human partners: {Q13129}

26807 Pathogen[ P03410] interacts with 2 human partners: {Q9UQE7;Q13129}

26808 Pathogen[ P14075] interacts with 1 human partners: {Q13129}

26809 Pathogen[ P0C206] interacts with 2 human partners: {Q9UQE7;Q13129}

26810 Pathogen[ P03363] interacts with 1 human partners: {Q13129}

26811 [Cluster 2438]GO:0043044+P biological\_process [name] ATP-dependent chromatin remodeling [def] "Dynamic structural changes to eukaryotic chromatin that require energy from the hydrolysis of ATP, ranging from local changes necessary for transcriptional regulation to global changes necessary for chromosome segregation, mediated by ATP-dependent chromatin-remodelling factors." [GOC

26812 Pathogen[ Q2Q067] interacts with 3 human partners: {Q9H4L7;Q9HCK8;P28370}

26813 Pathogen[ P0C214] interacts with 4 human partners: {Q9H4L7;P28370;Q9HCK8;O60264}

26814 Pathogen[ P03346] interacts with 4 human partners: {O60264;Q9HCK8;P28370;Q9H4L7}

26815 Pathogen[ Q85601] interacts with 4 human partners: {Q9H4L7;Q9HCK8;P28370;O60264}

26816 Pathogen[ P14079] interacts with 4 human partners: {P28370;Q9H4L7;Q9HCK8;O60264}

26817 Pathogen[ P03383] interacts with 2 human partners: {P28370;Q9HCK8}

26818 Pathogen[ P03410] interacts with 4 human partners: {Q9H4L7;Q9HCK8;O60264;P28370}

26819 Pathogen[ P14075] interacts with 2 human partners: {Q9HCK8;P28370}

26820 Pathogen[ P0C206] interacts with 5 human partners: {Q9H4L7;Q9HCK8;P28370;Q9UIG0;O60264}

26821 Pathogen[ P03363] interacts with 4 human partners: {Q9H4L7;O60264;Q9HCK8;P28370}

26822 [Cluster 2439]GO:0051170+P biological\_process [name] nuclear import [def] "The directed movement of substances into the nucleus." [GOC

26823 Pathogen[ Q2Q067] interacts with 1 human partners: {Q9BUP3}

26824 Pathogen[ P0C214] interacts with 1 human partners: {Q9BUP3}

26825 Pathogen[ P03346] interacts with 2 human partners: {P09651;Q9BUP3}

26826 Pathogen[ Q85601] interacts with 1 human partners: {Q9BUP3}

26827 Pathogen[ P14079] interacts with 1 human partners: {Q9BUP3}

26828 Pathogen[ P03383] interacts with 1 human partners: {Q9BUP3}

26829 Pathogen[ P03410] interacts with 1 human partners: {Q9BUP3}

26830 Pathogen[ P14075] interacts with 1 human partners: {Q9BUP3}

26831 Pathogen[ P0C206] interacts with 1 human partners:{Q9BUP3}  
26832 Pathogen[ P03363] interacts with 2 human partners:{Q9BUP3;P09651}  
26833 [Cluster 2440]GO:0048305+P biological\_process [name] immunoglobulin secretion [def] "The regulated release of immunoglobulins from a B cell or plasma cell, whose mechanism includes the use of alternate polyadenylation signals to favor the biosynthesis of secreted forms of immunoglobulin over membrane-bound immunoglobulin." [GOC  
26834 Pathogen[ Q2Q067] interacts with 2 human partners:{O43734;P09086}  
26835 Pathogen[ P0C214] interacts with 2 human partners:{O43734;P09086}  
26836 Pathogen[ P03346] interacts with 3 human partners:{P09086;O43734;Q8IWW1}  
26837 Pathogen[ Q85601] interacts with 1 human partners:{P09086}  
26838 Pathogen[ P14079] interacts with 3 human partners:{P09086;Q8IWW1;O43734}  
26839 Pathogen[ P03383] interacts with 1 human partners:{O43734}  
26840 Pathogen[ P03410] interacts with 2 human partners:{Q8IWW1;O43734}  
26841 Pathogen[ P14075] interacts with 2 human partners:{Q8IWW1;O43734}  
26842 Pathogen[ P0C206] interacts with 3 human partners:{Q8IWW1;O43734;P09086}  
26843 Pathogen[ P03363] interacts with 2 human partners:{P09086;O43734}  
26844 [Cluster 2441]GO:0021740+P biological\_process [name] principal sensory nucleus of trigeminal nerve development [def] "The process whose specific outcome is the progression of the pontine nucleus over time, from its formation to the mature structure." [GO\_REF  
26845 Pathogen[ Q2Q067] interacts with 1 human partners:{O00712}  
26846 Pathogen[ P0C214] interacts with 1 human partners:{O00712}  
26847 Pathogen[ P03346] interacts with 1 human partners:{O00712}  
26848 Pathogen[ Q85601] interacts with 1 human partners:{O00712}  
26849 Pathogen[ P14079] interacts with 1 human partners:{O00712}  
26850 Pathogen[ P03383] interacts with 1 human partners:{O00712}  
26851 Pathogen[ P03410] interacts with 1 human partners:{O00712}  
26852 Pathogen[ P14075] interacts with 1 human partners:{O00712}  
26853 Pathogen[ P0C206] interacts with 1 human partners:{O00712}  
26854 Pathogen[ P03363] interacts with 1 human partners:{O00712}  
26855 [Cluster 2442]GO:0033148+P biological\_process [name] positive regulation of intracellular estrogen receptor signaling pathway [def] "Any process that activates or increases the frequency, rate or extent of the activity of an intracellular estrogen receptor signaling pathway." [GOC  
26856 Pathogen[ Q2Q067] interacts with 3 human partners:{O14686;Q13309;Q92841}  
26857 Pathogen[ P0C214] interacts with 2 human partners:{Q92841;Q13309}  
26858 Pathogen[ P03346] interacts with 3 human partners:{Q92841;Q13309;O14686}  
26859 Pathogen[ Q85601] interacts with 2 human partners:{Q13309;O14686}  
26860 Pathogen[ P14079] interacts with 1 human partners:{Q13309}  
26861 Pathogen[ P03383] interacts with 2 human partners:{Q92841;Q13309}  
26862 Pathogen[ P03410] interacts with 1 human partners:{Q13309}  
26863 Pathogen[ P14075] interacts with 2 human partners:{Q13309;Q92841}  
26864 Pathogen[ P0C206] interacts with 3 human partners:{Q13309;O14686;Q92841}  
26865 Pathogen[ P03363] interacts with 3 human partners:{Q13309;Q92841;O14686}  
26866 [Cluster 2443]GO:0048167+P biological\_process [name] regulation of synaptic plasticity [def] "A process that modulates synaptic plasticity, the ability of synapses to change as circumstances require. They may alter function, such as increasing or decreasing their sensitivity, or they may increase or decrease in actual numbers." [GOC  
26867 Pathogen[ Q2Q067] interacts with 3 human partners:{P61981;Q9UQB3;Q04917}  
26868 Pathogen[ P0C214] interacts with 5 human partners:{P05937;Q04917;Q9UM54;Q9UQB3;P61981}  
26869 Pathogen[ P03346] interacts with 5 human partners:{O14908;P05937;Q04917;Q9UQB3;P61981}  
26870 Pathogen[ Q85601] interacts with 4 human partners:{P61981;Q04917;Q9UQB3;Q9UM54}  
26871 Pathogen[ P14079] interacts with 7 human partners:{P05937;P16298;Q9UQB3;Q9UM54;Q04917;P61981;O14908}  
26872 Pathogen[ P03383] interacts with 2 human partners:{Q9UQB3;P61981}  
26873 Pathogen[ P03410] interacts with 6 human partners:{Q04917;O14908;P61981;Q9UM54;P05937;Q9UQB3}  
26874 Pathogen[ P14075] interacts with 2 human partners:{P61981;Q9UQB3}  
26875 Pathogen[ P0C206] interacts with 5 human partners:{Q9UM54;Q04917;O14908;P61981;Q9UQB3}  
26876 Pathogen[ P03363] interacts with 5 human partners:{O14908;P61981;Q04917;Q9UQB3;P05937}  
26877 [Cluster 2444]GO:0035025+P biological\_process [name] positive regulation of Rho protein signal transduction [def] "Any process that activates or increases the frequency, rate or extent of Rho protein signal transduction." [GOC  
26878 Pathogen[ Q2Q067] interacts with 2 human partners:{Q8N0Z2;P63000}  
26879 Pathogen[ P0C214] interacts with 2 human partners:{P63000;Q8N0Z2}  
26880 Pathogen[ P03346] interacts with 2 human partners:{Q8N0Z2;P63000}  
26881 Pathogen[ Q85601] interacts with 2 human partners:{P63000;Q8N0Z2}  
26882 Pathogen[ P14079] interacts with 1 human partners:{Q8N0Z2}  
26883 Pathogen[ P03383] interacts with 2 human partners:{P63000;Q8N0Z2}  
26884 Pathogen[ P03410] interacts with 2 human partners:{P63000;Q8N0Z2}  
26885 Pathogen[ P14075] interacts with 2 human partners:{Q8N0Z2;P63000}  
26886 Pathogen[ P0C206] interacts with 2 human partners:{P63000;Q8N0Z2}

26887 Pathogen[ P03363] interacts with 2 human partners:{P63000;Q8N0Z2}

26888 [Cluster 2445]GO:0060337+P biological\_process [name] type I interferon-mediated signaling pathway [def] "A series of molecular events generated as a consequence of a type I interferon binding to a cell surface receptor. Type I interferons include the interferon-alpha, beta, delta, epsilon, zeta, kappa, tau, and omega gene families." [GOC

26889 Pathogen[ Q2Q067] interacts with 21 human partners:{Q9Y6K5;P55265;P09913;Q92985;P14316;O14896;Q00978;P80217;Q6GPH4;Q14653;Q15306;P10914;P28062;Q02556;P09914;P52630;P23497;Q13568;P42224;O14879;P18146}

26890 Pathogen[ P0C214] interacts with 23 human partners:{P80217;P28062;P09914;P09913;Q13568;O14879;P55265;Q9Y6K5;P29728;P42224;P10914;Q00978;Q92985;Q02556;O14896;Q14653;Q6GPH4;P23497;P18146;P52630;O15524;P14316;Q15306}

26891 Pathogen[ P03346] interacts with 23 human partners:{O15524;P55265;P14316;P28062;Q15306;Q00978;Q15646;P10914;Q02556;O14879;O14896;P42224;Q14653;Q13568;P80217;Q6GPH4;P23497;P09913;P18146;Q92985;P09914;P52630;Q9Y6K5}

26892 Pathogen[ Q85601] interacts with 20 human partners:{P18146;O14896;P09913;P14316;Q02556;O14879;Q6GPH4;Q15306;Q00978;P10914;P52630;P80217;Q14653;Q9Y6K5;P28062;Q92985;P42224;P55265;P09914;Q13568}

26893 Pathogen[ P14079] interacts with 25 human partners:{P13164;P52630;P29728;Q14653;P09914;P09912;O14896;P80217;Q92985;Q15306;P23497;P09913;Q13568;P28062;P55265;Q9Y6K5;Q6GPH4;P42224;Q96AZ6;Q00978;Q02556;O14879;P14316;P10914;P40305}

26894 Pathogen[ P03383] interacts with 18 human partners:{O14879;P10914;P14316;Q14653;P52630;Q15306;Q00978;P18146;P09913;Q92985;P80217;O14896;Q13568;Q9Y6K5;P23497;P55265;Q02556;P28062}

26895 Pathogen[ P03410] interacts with 23 human partners:{O14896;P29728;Q14653;P09912;P55265;Q15306;Q13568;Q02556;Q6GPH4;P28062;Q96AZ6;P10914;P80217;Q9Y6K5;P09913;P52630;P14316;Q92985;O14879;P18146;P40305;P09914;Q00978}

26896 Pathogen[ P14075] interacts with 19 human partners:{P52630;P23497;P09913;P55265;P18146;P80217;Q00978;Q02556;Q13568;Q14653;P28062;Q9Y6K5;Q15306;P14316;O14896;O14879;P40305;Q92985;P10914}

26897 Pathogen[ P0C206] interacts with 23 human partners:{P28062;P10914;Q13568;P40305;P55265;Q9Y6K5;O14879;P29728;Q15306;O15524;P80217;P18146;Q02556;Q92985;P09913;O14896;Q00978;P42224;Q6GPH4;P14316;P52630;Q14653;P09914}

26898 Pathogen[ P03363] interacts with 19 human partners:{Q14653;Q9Y6K5;P52630;Q92985;O14896;P18146;O15524;Q02556;P09914;P09913;Q13568;P80217;Q15306;P23497;O14879;P14316;P10914;P55265;Q00978}

26899 [Cluster 2446]GO:0033693+P biological\_process [name] neurofilament bundle assembly [def] "The assembly of neurofilaments into bundles, in which the filaments are longitudinally oriented, with numerous crossbridges between them. Neurofilament bundles may be cross-linked to each other, to membrane-bounded organelles or other cytoskeletal structures such as microtubules." [PMID

26900 Pathogen[ Q2Q067] interacts with 1 human partners:{P07196}

26901 Pathogen[ P0C214] interacts with 1 human partners:{P07196}

26902 Pathogen[ P03346] interacts with 1 human partners:{P07196}

26903 Pathogen[ Q85601] interacts with 1 human partners:{P07196}

26904 Pathogen[ P14079] interacts with 1 human partners:{P07196}

26905 Pathogen[ P03383] interacts with 1 human partners:{P07196}

26906 Pathogen[ P03410] interacts with 1 human partners:{P07196}

26907 Pathogen[ P14075] interacts with 1 human partners:{P07196}

26908 Pathogen[ P0C206] interacts with 1 human partners:{P07196}

26909 Pathogen[ P03363] interacts with 1 human partners:{P07196}

26910 [Cluster 2447]GO:2000144+P biological\_process [name] positive regulation of transcription initiation, DNA-dependent [def] "Any process that activates or increases the frequency, rate or extent of DNA-dependent transcription initiation." [GOC

26911 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NYF8}

26912 Pathogen[ P0C214] interacts with 1 human partners:{Q9NYF8}

26913 Pathogen[ P03346] interacts with 1 human partners:{Q9NYF8}

26914 Pathogen[ Q85601] interacts with 1 human partners:{Q9NYF8}

26915 Pathogen[ P14079] interacts with 1 human partners:{Q9NYF8}

26916 Pathogen[ P03383] interacts with 1 human partners:{Q9NYF8}

26917 Pathogen[ P03410] interacts with 1 human partners:{Q9NYF8}

26918 Pathogen[ P14075] interacts with 1 human partners:{Q9NYF8}

26919 Pathogen[ P0C206] interacts with 1 human partners:{Q9NYF8}

26920 Pathogen[ P03363] interacts with 1 human partners:{Q9NYF8}

26921 [Cluster 2448]GO:0045669+P biological\_process [name] positive regulation of osteoblast differentiation [def] "Any process that activates or increases the frequency, rate or extent of osteoblast differentiation." [GOC

26922 Pathogen[ Q2Q067] interacts with 10 human partners:{Q9H4I2;P17676;P35548;O00255;Q9NSA3;Q9Y5J3;P47928;Q99717;Q15797;P49715}

26923 Pathogen[ P0C214] interacts with 10 human partners:{Q9Y5J3;Q9H4I2;P17676;Q9NSA3;P17535;P47928;Q99717;Q15797;P35548;O00255}

26924 Pathogen[ P03346] interacts with 14 human partners: {P17676;P35548;Q15797;P17535;Q99717;P49715;Q9Y5J3;Q6UW56;Q9NSA3;O00255;Q9H4I2;Q92832;P56178;P47928}

26925 Pathogen[ Q85601] interacts with 11 human partners: {P17676;Q15797;Q9H4I2;P17535;Q99717;P35548;O00255;P49715;Q9NSA3;Q9Y5J3;P47928}

26926 Pathogen[ P14079] interacts with 11 human partners: {P13164;Q06413;Q9NR12;Q15797;P49715;Q92832;Q9Y5J3;Q9H4I2;O00255;P47928;P17535}

26927 Pathogen[ P03383] interacts with 9 human partners: {Q9H4I2;Q15797;Q9NSA3;P35548;Q99717;P17676;O00255;P17535;P47928}

26928 Pathogen[ P03410] interacts with 11 human partners: {Q9Y5J3;Q9NSA3;P17676;Q9H4I2;Q99717;Q92832;P35548;P17535;Q15797;P47928;O00255}

26929 Pathogen[ P14075] interacts with 8 human partners: {Q9H4I2;P35548;P47928;Q99717;O00255;Q9NSA3;P17676;P17535}

26930 Pathogen[ P0C206] interacts with 13 human partners: {Q9NSA3;Q9H4I2;O00255;Q99717;Q6UW56;P17535;P49715;P17676;Q9Y5J3;P35548;Q15797;Q92832;P47928}

26931 Pathogen[ P03363] interacts with 12 human partners: {P17535;Q9Y5J3;P17676;Q6UW56;P35548;Q15797;Q92832;Q9NSA3;P47928;Q9NR12;Q99717;Q9H4I2}

26932 [Cluster 2449]GO:0033092+P biological\_process [name] positive regulation of immature T cell proliferation in thymus [def] "Any process that activates or increases the frequency, rate or extent of immature T cell proliferation in the thymus." [GOC]

26933 Pathogen[ Q2Q067] interacts with 1 human partners: {P35226}

26934 Pathogen[ P0C214] interacts with 1 human partners: {P35226}

26935 Pathogen[ P03346] interacts with 1 human partners: {P35226}

26936 Pathogen[ Q85601] interacts with 1 human partners: {P35226}

26937 Pathogen[ P14079] interacts with 1 human partners: {P35226}

26938 Pathogen[ P03383] interacts with 1 human partners: {P35226}

26939 Pathogen[ P03410] interacts with 1 human partners: {P35226}

26940 Pathogen[ P14075] interacts with 1 human partners: {P35226}

26941 Pathogen[ P0C206] interacts with 1 human partners: {P35226}

26942 Pathogen[ P03363] interacts with 1 human partners: {P35226}

26943 [Cluster 2450]GO:2001162+P biological\_process [name] positive regulation of histone H3-K79 methylation [def] "Any process that activates or increases the frequency, rate or extent of histone H3-K79 methylation." [PMID]

26944 Pathogen[ Q2Q067] interacts with 2 human partners: {Q6PD62;Q9GZS3}

26945 Pathogen[ P0C214] interacts with 2 human partners: {Q6PD62;Q9GZS3}

26946 Pathogen[ P03346] interacts with 2 human partners: {Q6PD62;Q9GZS3}

26947 Pathogen[ Q85601] interacts with 2 human partners: {Q6PD62;Q9GZS3}

26948 Pathogen[ P14079] interacts with 2 human partners: {Q9GZS3;Q6PD62}

26949 Pathogen[ P03383] interacts with 2 human partners: {Q6PD62;Q9GZS3}

26950 Pathogen[ P03410] interacts with 2 human partners: {Q6PD62;Q9GZS3}

26951 Pathogen[ P14075] interacts with 2 human partners: {Q6PD62;Q9GZS3}

26952 Pathogen[ P0C206] interacts with 2 human partners: {Q6PD62;Q9GZS3}

26953 Pathogen[ P03363] interacts with 2 human partners: {Q9GZS3;Q6PD62}

26954 [Cluster 2451]GO:0043567+P biological\_process [name] regulation of insulin-like growth factor receptor signaling pathway [def] "Any process that modulates the frequency, rate or extent of insulin-like growth factor receptor signaling." [GOC]

26955 Pathogen[ Q2Q067] interacts with 1 human partners: {P28069}

26956 Pathogen[ P0C214] interacts with 1 human partners: {P28069}

26957 Pathogen[ P03346] interacts with 1 human partners: {P28069}

26958 Pathogen[ Q85601] interacts with 1 human partners: {P28069}

26959 Pathogen[ P14079] interacts with 1 human partners: {P28069}

26960 Pathogen[ P03383] interacts with 1 human partners: {P28069}

26961 Pathogen[ P03410] interacts with 1 human partners: {P28069}

26962 Pathogen[ P14075] interacts with 1 human partners: {P28069}

26963 Pathogen[ P0C206] interacts with 1 human partners: {P28069}

26964 Pathogen[ P03363] interacts with 1 human partners: {P28069}

26965 [Cluster 2452]GO:0042698+P biological\_process [name] ovulation cycle [def] "The type of sexual cycle seen in females, often with physiologic changes in the endometrium that recur at regular intervals during the reproductive years." [ISBN]

26966 Pathogen[ Q2Q067] interacts with 1 human partners: {Q02577}

26967 Pathogen[ P0C214] interacts with 1 human partners: {Q02577}

26968 Pathogen[ P03346] interacts with 1 human partners: {Q02577}

26969 Pathogen[ Q85601] interacts with 1 human partners: {Q02577}

26970 Pathogen[ P14079] interacts with 1 human partners: {Q02577}

26971 Pathogen[ P03383] interacts with 1 human partners: {Q02577}

26972 Pathogen[ P03410] interacts with 1 human partners: {Q02577}

26973 Pathogen[ P14075] interacts with 1 human partners: {Q02577}

26974 Pathogen[ P0C206] interacts with 1 human partners: {Q02577}

26975 Pathogen[ P03363] interacts with 1 human partners: {Q02577}

26976 [Cluster 2453]GO:0021670+P biological\_process [name] lateral ventricle development [def] "The process whose specific outcome is the progression of the lateral ventricles

over time, from the formation to the mature structure. The two lateral ventricles are a cavity in each of the cerebral hemispheres derived from the cavity of the embryonic neural tube. They are separated from each other by the septum pellucidum, and each communicates with the third ventricle by the foramen of Monro, through which also the choroid plexuses of the lateral ventricles become continuous with that of the third ventricle." [GO\_REF

26977 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9Y5K5;Q8NHM5;Q00534}  
26978 Pathogen[ P0C214] interacts with 4 human partners:{Q9Y5K5;Q00534;P35580;Q8NHM5}  
26979 Pathogen[ P03346] interacts with 5 human partners:{Q68CZ1;Q00534;Q8NHM5;Q9Y6R0;Q9Y5K5}  
26980 Pathogen[ Q85601] interacts with 4 human partners:{Q8NHM5;Q9Y5K5;P35580;Q00534}  
26981 Pathogen[ P14079] interacts with 4 human partners:{Q9BVM2;Q68CZ1;Q8NHM5;Q9Y5K5}  
26982 Pathogen[ P03383] interacts with 3 human partners:{Q00534;Q9Y5K5;P35580}  
26983 Pathogen[ P03410] interacts with 5 human partners:{Q00534;P35580;Q9Y5K5;Q68CZ1;Q9BVM2}  
26984 Pathogen[ P14075] interacts with 3 human partners:{Q00534;Q9BVM2;Q9Y5K5}  
26985 Pathogen[ P0C206] interacts with 5 human partners:{Q9BVM2;Q9Y5K5;Q8NHM5;P35580;Q00534}  
26986 Pathogen[ P03363] interacts with 3 human partners:{Q9Y5K5;Q00534;Q9Y6R0}  
26987 [Cluster 2454]GO:0007080+P biological\_process [name] mitotic metaphase plate congression [def] "The cell cycle process in which chromosomes are aligned at the metaphase plate, a plane halfway between the poles of the mitotic spindle, during mitosis." [GOC  
26988 Pathogen[ Q2Q067] interacts with 9 human partners:{Q96EE3;P14635;Q9UJX2;O43264;Q6PGN9;Q15050;Q96BK5;Q96FF9;Q96EA4}  
26989 Pathogen[ P0C214] interacts with 9 human partners:{Q96BK5;O43264;Q96EA4;Q96EE3;P14635;Q15050;Q9UJX2;Q96FF9;Q6PGN9}  
26990 Pathogen[ P03346] interacts with 9 human partners:{Q15050;Q96EE3;Q96FF9;O43264;Q96EA4;P14635;Q9UJX2;Q96BK5;Q6PGN9}  
26991 Pathogen[ Q85601] interacts with 9 human partners:{Q9UJX2;Q6PGN9;Q96EE3;O43264;Q96EA4;P14635;Q96BK5;Q15050;Q96FF9}  
26992 Pathogen[ P14079] interacts with 8 human partners:{Q96FF9;Q15050;P14635;Q96EA4;Q96EE3;O43264;Q6PGN9;Q96BK5}  
26993 Pathogen[ P03383] interacts with 9 human partners:{Q96EE3;O43264;Q96BK5;Q15050;Q96EA4;P14635;Q6PGN9;Q96FF9;Q9UJX2}  
26994 Pathogen[ P03410] interacts with 8 human partners:{Q15050;O43264;Q96EA4;P14635;Q96EE3;Q96FF9;Q96BK5;Q6PGN9}  
26995 Pathogen[ P14075] interacts with 9 human partners:{P14635;Q9UJX2;Q96FF9;Q96BK5;Q96EA4;Q96EE3;Q6PGN9;Q15050;O43264}  
26996 Pathogen[ P0C206] interacts with 9 human partners:{Q96EE3;Q9UJX2;Q6PGN9;Q96BK5;Q15050;Q96FF9;Q96EA4;P14635;O43264}  
26997 Pathogen[ P03363] interacts with 7 human partners:{Q9UJX2;Q96EA4;Q15050;Q96BK5;O43264;Q6PGN9;Q96FF9}  
26998 [Cluster 2455]GO:0034124+P biological\_process [name] regulation of MyD88-dependent toll-like receptor signaling pathway [def] "Any process that modulates the frequency, rate, or extent of MyD88-dependent toll-like receptor signaling pathway." [GOC  
26999 Pathogen[ Q2Q067] interacts with 2 human partners:{Q92985;P10914}  
27000 Pathogen[ P0C214] interacts with 2 human partners:{P10914;Q92985}  
27001 Pathogen[ P03346] interacts with 2 human partners:{P10914;Q92985}  
27002 Pathogen[ Q85601] interacts with 2 human partners:{P10914;Q92985}  
27003 Pathogen[ P14079] interacts with 2 human partners:{Q92985;P10914}  
27004 Pathogen[ P03383] interacts with 2 human partners:{P10914;Q92985}  
27005 Pathogen[ P03410] interacts with 2 human partners:{P10914;Q92985}  
27006 Pathogen[ P14075] interacts with 2 human partners:{Q92985;P10914}  
27007 Pathogen[ P0C206] interacts with 2 human partners:{P10914;Q92985}  
27008 Pathogen[ P03363] interacts with 2 human partners:{Q92985;P10914}  
27009 [Cluster 2456]GO:0050859+P biological\_process [name] negative regulation of B cell receptor signaling pathway [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of signaling pathways initiated by the cross-linking of an antigen receptor on a B cell." [GOC  
27010 Pathogen[ Q2Q067] interacts with 1 human partners:{O60711}  
27011 Pathogen[ P0C214] interacts with 1 human partners:{O60711}  
27012 Pathogen[ P03346] interacts with 1 human partners:{O60711}  
27013 Pathogen[ Q85601] interacts with 1 human partners:{O60711}  
27014 Pathogen[ P14079] interacts with 1 human partners:{O60711}  
27015 Pathogen[ P03383] interacts with 1 human partners:{O60711}  
27016 Pathogen[ P03410] interacts with 1 human partners:{O60711}  
27017 Pathogen[ P14075] interacts with 1 human partners:{O60711}  
27018 Pathogen[ P0C206] interacts with 1 human partners:{O60711}  
27019 Pathogen[ P03363] interacts with 1 human partners:{O60711}  
27020 [Cluster 2457]GO:0006333+P biological\_process [name] chromatin assembly or disassembly [def] "The formation or destruction of chromatin structures." [GOC  
27021 Pathogen[ Q2Q067] interacts with 5 human partners:{Q9BY41;Q9BW71;O94776;Q9Y294;Q9H5I1}  
27022 Pathogen[ P0C214] interacts with 6 human partners:{Q9H5I1;Q9BW71;O94776;O60264;Q9Y294;Q9BY41}

27023 Pathogen[ P03346] interacts with 6 human partners:{O94776;Q9BW71;O60264;Q9BY41;Q9H5I1;Q9Y294}

27024 Pathogen[ Q85601] interacts with 6 human partners:{Q9H5I1;Q9BY41;O94776;Q9BW71;Q9Y294;O60264}

27025 Pathogen[ P14079] interacts with 6 human partners:{Q9H5I1;Q9BY41;O60264;Q9BW71;Q9Y294;O94776}

27026 Pathogen[ P03383] interacts with 5 human partners:{O94776;Q9BW71;Q9Y294;Q9BY41;Q9H5I1}

27027 Pathogen[ P03410] interacts with 6 human partners:{Q9BY41;Q9Y294;Q9H5I1;Q9BW71;O94776;O60264}

27028 Pathogen[ P14075] interacts with 5 human partners:{Q9BY41;O94776;Q9H5I1;Q9Y294;Q9BW71}

27029 Pathogen[ P0C206] interacts with 7 human partners:{Q9BW71;O94776;Q9H5I1;Q9Y294;Q9BY41;Q9UIG0;O60264}

27030 Pathogen[ P03363] interacts with 6 human partners:{Q9H5I1;Q9BY41;Q9Y294;Q9BW71;O60264;O94776}

27031 [Cluster 2458]GO:0021915+P biological\_process [name] neural tube development [def] "The process whose specific outcome is the progression of the neural tube over time, from its formation to the mature structure. The mature structure of the neural tube exists when the tube has been segmented into the forebrain, midbrain, hindbrain and spinal cord regions. In addition neural crest has budded away from the epithelium." [GO\_REF

27032 Pathogen[ Q2Q067] interacts with 4 human partners:{P36402;Q15468;Q5TGS1;Q9NSC2}

27033 Pathogen[ P0C214] interacts with 5 human partners:{Q9NW07;Q15468;Q9NSC2;P36402;Q5TGS1}

27034 Pathogen[ P03346] interacts with 9 human partners:{Q9Y467;P36402;Q9NW07;Q9UJQ4;Q9NSC2;Q9C0C7;Q5TGS1;Q15468;Q96EL1}

27035 Pathogen[ Q85601] interacts with 4 human partners:{Q9NW07;Q5TGS1;P36402;Q9NSC2}

27036 Pathogen[ P14079] interacts with 8 human partners:{P36402;Q96EL1;Q4AC94;Q15468;Q5TGS1;Q9UJQ4;Q9NW07;Q9NSC2}

27037 Pathogen[ P03383] interacts with 5 human partners:{Q15468;Q96EL1;Q9NSC2;P36402;Q5TGS1}

27038 Pathogen[ P03410] interacts with 8 human partners:{P36402;Q4AC94;Q15468;Q96EL1;Q5TGS1;Q9NW07;Q9NSC2;Q9UJQ4}

27039 Pathogen[ P14075] interacts with 5 human partners:{Q9NSC2;Q5TGS1;Q96EL1;P36402;Q15468}

27040 Pathogen[ P0C206] interacts with 8 human partners:{Q15468;Q9C0C7;Q9UJQ4;Q5TGS1;Q9NW07;Q9NSC2;P36402;Q96EL1}

27041 Pathogen[ P03363] interacts with 7 human partners:{Q5TGS1;Q9UJQ4;Q15468;P36402;Q9NW07;Q9Y467;Q9C0C7}

27042 [Cluster 2459]GO:0003365+P biological\_process [name] establishment of cell polarity involved in ameboidal cell migration [def] "The specification and formation of anisotropic intracellular organization that contributes to the self-propelled directed movement of an ameboid cell." [GOC

27043 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8IY63}

27044 Pathogen[ P0C214] interacts with 1 human partners:{Q8IY63}

27045 Pathogen[ P03346] interacts with 1 human partners:{Q8IY63}

27046 Pathogen[ Q85601] interacts with 1 human partners:{Q8IY63}

27047 Pathogen[ P14079] interacts with 1 human partners:{Q8IY63}

27048 Pathogen[ P03383] interacts with 1 human partners:{Q8IY63}

27049 Pathogen[ P03410] interacts with 1 human partners:{Q8IY63}

27050 Pathogen[ P14075] interacts with 1 human partners:{Q8IY63}

27051 Pathogen[ P0C206] interacts with 1 human partners:{Q8IY63}

27052 Pathogen[ P03363] interacts with 1 human partners:{Q8IY63}

27053 [Cluster 2460]GO:0034553+P biological\_process [name] mitochondrial respiratory chain complex II assembly [def] "The aggregation, arrangement and bonding together of a set of components to form respiratory chain complex II, in the mitochondrial inner membrane." [GOC

27054 Pathogen[ Q2Q067] interacts with 1 human partners:{A6NFY7}

27055 Pathogen[ P0C214] interacts with 1 human partners:{A6NFY7}

27056 Pathogen[ P03346] interacts with 1 human partners:{A6NFY7}

27057 Pathogen[ Q85601] interacts with 1 human partners:{A6NFY7}

27058 Pathogen[ P14079] interacts with 1 human partners:{A6NFY7}

27059 Pathogen[ P03383] interacts with 1 human partners:{A6NFY7}

27060 Pathogen[ P03410] interacts with 1 human partners:{A6NFY7}

27061 Pathogen[ P14075] interacts with 1 human partners:{A6NFY7}

27062 Pathogen[ P0C206] interacts with 1 human partners:{A6NFY7}

27063 Pathogen[ P03363] interacts with 1 human partners:{A6NFY7}

27064 [Cluster 2461]GO:0043297+P biological\_process [name] apical junction assembly [def] "The formation of an apical junction, a functional unit located near the cell apex at the points of contact between epithelial cells composed of the tight junction, the zonula adherens junction and the desmosomes, by the aggregation, arrangement and bonding together of its constituents." [GOC

27065 Pathogen[ Q2Q067] interacts with 2 human partners:{Q8TES7;P61586}

27066 Pathogen[ P0C214] interacts with 2 human partners:{P61586;Q8TES7}

27067 Pathogen[ P03346] interacts with 2 human partners:{Q8TES7;P61586}

27068 Pathogen[ Q85601] interacts with 2 human partners:{Q8TES7;P61586}  
27069 Pathogen[ P14079] interacts with 3 human partners:{Q8N6F1;P61586;Q8TES7}  
27070 Pathogen[ P03383] interacts with 2 human partners:{Q8TES7;P61586}  
27071 Pathogen[ P03410] interacts with 3 human partners:{Q8N6F1;P61586;Q8TES7}  
27072 Pathogen[ P14075] interacts with 2 human partners:{Q8TES7;P61586}  
27073 Pathogen[ P0C206] interacts with 2 human partners:{P61586;Q8TES7}  
27074 Pathogen[ P03363] interacts with 1 human partners:{Q8TES7}  
27075 [Cluster 2462]GO:0050658+P biological\_process [name] RNA transport [def] "The directed movement of RNA, ribonucleic acids, into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore." [GOC  
27076 Pathogen[ Q2Q067] interacts with 4 human partners:{Q14008;Q9H1B4;Q99700;P22626}  
27077 Pathogen[ P0C214] interacts with 4 human partners:{Q14008;Q99700;Q9H1B4;P22626}  
27078 Pathogen[ P03346] interacts with 5 human  
partners:{P22626;Q9H1B4;Q99700;Q14008;Q9NWB1}  
27079 Pathogen[ Q85601] interacts with 4 human partners:{Q14008;P22626;Q9H1B4;Q99700}  
27080 Pathogen[ P14079] interacts with 5 human  
partners:{Q99700;Q9H1B4;Q9NWB1;P22626;Q14008}  
27081 Pathogen[ P03383] interacts with 4 human partners:{Q9H1B4;Q14008;P22626;Q99700}  
27082 Pathogen[ P03410] interacts with 5 human  
partners:{Q99700;Q9NWB1;P22626;Q14008;Q9H1B4}  
27083 Pathogen[ P14075] interacts with 4 human partners:{P22626;Q99700;Q9H1B4;Q14008}  
27084 Pathogen[ P0C206] interacts with 4 human partners:{Q14008;P22626;Q99700;Q9H1B4}  
27085 Pathogen[ P03363] interacts with 5 human  
partners:{Q9NWB1;P22626;Q14008;Q99700;Q9H1B4}  
27086 [Cluster 2463]GO:0014015+P biological\_process [name] positive regulation of  
gliogenesis [def] "Any process that activates or increases the frequency, rate or extent  
of gliogenesis, the formation of mature glia." [GOC  
27087 Pathogen[ Q2Q067] interacts with 1 human partners:{P56693}  
27088 Pathogen[ P0C214] interacts with 1 human partners:{P56693}  
27089 Pathogen[ P03346] interacts with 1 human partners:{P56693}  
27090 Pathogen[ Q85601] interacts with 1 human partners:{P56693}  
27091 Pathogen[ P14079] interacts with 1 human partners:{P56693}  
27092 Pathogen[ P03383] interacts with 1 human partners:{P56693}  
27093 Pathogen[ P03410] interacts with 1 human partners:{P56693}  
27094 Pathogen[ P14075] interacts with 1 human partners:{P56693}  
27095 Pathogen[ P0C206] interacts with 1 human partners:{P56693}  
27096 Pathogen[ P03363] interacts with 1 human partners:{P56693}  
27097 [Cluster 2464]GO:0005980+P biological\_process [name] glycogen catabolic process  
[def] "The chemical reactions and pathways resulting in the breakdown of glycogen, a  
polydisperse, highly branched glucan composed of chains of D-glucose residues." [ISBN  
27098 Pathogen[ Q2Q067] interacts with 4 human partners:{P35573;P36871;Q96G03;P46976}  
27099 Pathogen[ P0C214] interacts with 7 human  
partners:{P35573;P46976;Q96G03;P36871;O15488;Q93100;P46020}  
27100 Pathogen[ P03346] interacts with 4 human partners:{P35573;P46976;P36871;Q96G03}  
27101 Pathogen[ Q85601] interacts with 4 human partners:{P46976;P35573;P36871;Q96G03}  
27102 Pathogen[ P14079] interacts with 7 human  
partners:{Q93100;P46976;P35573;Q96G03;P36871;P46020;O15488}  
27103 Pathogen[ P03383] interacts with 3 human partners:{Q96G03;P35573;P46976}  
27104 Pathogen[ P03410] interacts with 7 human  
partners:{P46976;P36871;P46020;P35573;Q93100;O15488;Q96G03}  
27105 Pathogen[ P14075] interacts with 4 human partners:{Q93100;Q96G03;P46976;P35573}  
27106 Pathogen[ P0C206] interacts with 7 human  
partners:{Q93100;P46976;Q96G03;P46020;P36871;O15488;P35573}  
27107 Pathogen[ P03363] interacts with 3 human partners:{P35573;P46976;Q96G03}  
27108 [Cluster 2465]GO:0033144+P biological\_process [name] negative regulation of  
intracellular steroid hormone receptor signaling pathway [def] "Any process that  
stops, prevents, or reduces the frequency, rate or extent of the activity of any  
intracellular steroid hormone receptor signaling pathway." [GOC  
27109 Pathogen[ Q2Q067] interacts with 2 human partners:{P27797;P61586}  
27110 Pathogen[ P0C214] interacts with 2 human partners:{P61586;P27797}  
27111 Pathogen[ P03346] interacts with 3 human partners:{P51843;P27797;P61586}  
27112 Pathogen[ Q85601] interacts with 2 human partners:{P27797;P61586}  
27113 Pathogen[ P14079] interacts with 1 human partners:{P61586}  
27114 Pathogen[ P03383] interacts with 2 human partners:{P61586;P27797}  
27115 Pathogen[ P03410] interacts with 2 human partners:{P61586;P27797}  
27116 Pathogen[ P14075] interacts with 2 human partners:{P27797;P61586}  
27117 Pathogen[ P0C206] interacts with 2 human partners:{P27797;P61586}  
27118 Pathogen[ P03363] interacts with 1 human partners:{P27797}  
27119 [Cluster 2466]GO:0033314+P biological\_process [name] mitotic cell cycle DNA  
replication checkpoint [def] "A cell cycle checkpoint that acts during a mitotic cell  
cycle and prevents the initiation of mitosis until DNA replication is complete, thereby  
ensuring that progeny inherit a full complement of the genome." [GOC  
27120 Pathogen[ Q2Q067] interacts with 2 human partners:{Q7Z2Z1;Q9HAW4}  
27121 Pathogen[ P0C214] interacts with 2 human partners:{Q9HAW4;Q7Z2Z1}  
27122 Pathogen[ P03346] interacts with 2 human partners:{Q7Z2Z1;Q9HAW4}  
27123 Pathogen[ Q85601] interacts with 2 human partners:{Q7Z2Z1;Q9HAW4}



27124 Pathogen[ P14079] interacts with 2 human partners:{Q9HAW4;Q7Z2Z1}  
27125 Pathogen[ P03383] interacts with 2 human partners:{Q7Z2Z1;Q9HAW4}  
27126 Pathogen[ P03410] interacts with 2 human partners:{Q9HAW4;Q7Z2Z1}  
27127 Pathogen[ P14075] interacts with 2 human partners:{Q7Z2Z1;Q9HAW4}  
27128 Pathogen[ P0C206] interacts with 2 human partners:{Q7Z2Z1;Q9HAW4}  
27129 Pathogen[ P03363] interacts with 2 human partners:{Q9HAW4;Q7Z2Z1}  
27130 [Cluster 2467]GO:0006206+P biological\_process [name] pyrimidine base metabolic process  
[def] "The chemical reactions and pathways involving pyrimidine bases, 1,3-diazine,  
organic nitrogenous bases." [GOC  
27131 Pathogen[ Q2Q067] interacts with 3 human partners:{P33316;P04818;P11172}  
27132 Pathogen[ P0C214] interacts with 7 human  
partners:{Q95045;P04818;P33316;P11172;Q8TCD5;Q16831;Q9H0P0}  
27133 Pathogen[ P03346] interacts with 2 human partners:{P11172;P33316}  
27134 Pathogen[ Q85601] interacts with 4 human partners:{P11172;P33316;Q95045;Q9H0P0}  
27135 Pathogen[ P14079] interacts with 8 human  
partners:{Q9H0P0;Q8TCD5;Q16831;P11172;P33316;Q95045;Q9BXI3;P04818}  
27136 Pathogen[ P03383] interacts with 2 human partners:{P33316;P11172}  
27137 Pathogen[ P03410] interacts with 8 human  
partners:{Q95045;Q16831;P11172;P33316;Q9BXI3;P04818;Q8TCD5;Q9H0P0}  
27138 Pathogen[ P14075] interacts with 3 human partners:{P11172;Q95045;P33316}  
27139 Pathogen[ P0C206] interacts with 7 human  
partners:{P33316;Q16831;Q95045;P11172;Q8TCD5;Q9H0P0;P04818}  
27140 Pathogen[ P03363] interacts with 2 human partners:{P33316;P11172}  
27141 [Cluster 2468]GO:0032233+P biological\_process [name] positive regulation of actin  
filament bundle assembly [def] "Any process that activates or increases the  
frequency, rate or extent of the assembly of actin filament bundles." [GOC  
27142 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8N3V7}  
27143 Pathogen[ P0C214] interacts with 1 human partners:{Q8N3V7}  
27144 Pathogen[ P03346] interacts with 1 human partners:{Q8N3V7}  
27145 Pathogen[ Q85601] interacts with 1 human partners:{Q8N3V7}  
27146 Pathogen[ P14079] interacts with 2 human partners:{P09327;Q8N3V7}  
27147 Pathogen[ P03383] interacts with 1 human partners:{Q8N3V7}  
27148 Pathogen[ P03410] interacts with 1 human partners:{Q8N3V7}  
27149 Pathogen[ P14075] interacts with 1 human partners:{Q8N3V7}  
27150 Pathogen[ P0C206] interacts with 1 human partners:{Q8N3V7}  
27151 Pathogen[ P03363] interacts with 1 human partners:{Q8N3V7}  
27152 [Cluster 2469]GO:0090263+P biological\_process [name] positive regulation of canonical  
Wnt receptor signaling pathway [def] "Any process that increases the rate, frequency,  
or extent of the Wnt receptor signaling pathway through beta-catenin, the series of  
molecular signals initiated by binding of a Wnt protein to a frizzled family receptor on  
the surface of the target cell, followed by propagation of the signal via beta-catenin,  
and ending with a change in transcription of target genes." [GOC  
27153 Pathogen[ Q2Q067] interacts with 10 human  
partners:{Q9H2K2;P46937;Q5JTC6;P84022;O14641;Q9NTX7;P19838;Q95271;Q8IZT6;Q96IU2}  
27154 Pathogen[ P0C214] interacts with 12 human  
partners:{P19838;P46937;P84022;Q9NTX7;P98170;Q95071;O14641;Q9H2K2;Q96IU2;Q95271;Q8IZ  
T6;Q5JTC6}  
27155 Pathogen[ P03346] interacts with 15 human  
partners:{Q06945;P46937;Q9NTX7;P98170;Q9H2K2;P84022;O14641;Q06190;Q95271;Q96IU2;P198  
38;Q8IZT6;P56178;Q95071;Q5JTC6}  
27156 Pathogen[ Q85601] interacts with 12 human  
partners:{P98170;Q8IZT6;Q9H2K2;O14641;Q9NTX7;Q5JTC6;P84022;P46937;Q95271;Q95071;P198  
38;Q96IU2}  
27157 Pathogen[ P14079] interacts with 9 human  
partners:{Q96IU2;Q95271;O14641;Q9H2K2;P46937;Q06190;Q5JTC6;Q13145;Q8IZT6}  
27158 Pathogen[ P03383] interacts with 8 human  
partners:{Q9NTX7;Q96IU2;P84022;O14641;Q5JTC6;Q95271;P19838;P46937}  
27159 Pathogen[ P03410] interacts with 11 human  
partners:{P84022;P19838;Q96IU2;Q13145;Q06190;Q8IZT6;Q95271;P46937;Q5JTC6;Q9H2K2;O146  
41}  
27160 Pathogen[ P14075] interacts with 8 human  
partners:{Q96IU2;Q9NTX7;O14641;Q5JTC6;P46937;P19838;P84022;Q95271}  
27161 Pathogen[ P0C206] interacts with 12 human  
partners:{Q95271;P46937;P84022;Q06190;Q8IZT6;P98170;P19838;Q9NTX7;Q95071;Q9H2K2;Q96I  
U2;Q5JTC6}  
27162 Pathogen[ P03363] interacts with 13 human  
partners:{Q5JTC6;Q9NTX7;Q06190;Q9H2K2;P46937;P84022;P98170;Q95271;P19838;Q95071;Q96I  
U2;O14641;Q8IZT6}  
27163 [Cluster 2470]GO:0003219+P biological\_process [name] cardiac right ventricle formation  
[def] "The developmental process pertaining to the initial formation of a right cardiac  
ventricle from unspecified parts." [GOC  
27164 Pathogen[ Q2Q067] interacts with 2 human partners:{Q96004;Q6STE5}  
27165 Pathogen[ P0C214] interacts with 2 human partners:{Q6STE5;Q96004}  
27166 Pathogen[ P03346] interacts with 2 human partners:{Q96004;Q6STE5}  
27167 Pathogen[ Q85601] interacts with 2 human partners:{Q6STE5;Q96004}  
27168 Pathogen[ P14079] interacts with 2 human partners:{Q6STE5;Q96004}

27169 Pathogen[ P03383] interacts with 2 human partners:{Q6STE5;O96004}  
27170 Pathogen[ P03410] interacts with 2 human partners:{O96004;Q6STE5}  
27171 Pathogen[ P14075] interacts with 2 human partners:{O96004;Q6STE5}  
27172 Pathogen[ P0C206] interacts with 2 human partners:{Q6STE5;O96004}  
27173 Pathogen[ P03363] interacts with 2 human partners:{Q6STE5;O96004}  
27174 [Cluster 2471]GO:0030514+P biological\_process [name] negative regulation of BMP signaling pathway [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of BMP signaling pathway activity." [GOC  
27175 Pathogen[ Q2Q067] interacts with 5 human partners:{Q9UPN9;P50616;P12755;O15105;O43541}  
27176 Pathogen[ P0C214] interacts with 7 human partners:{O95633;Q9HCE7;O15105;P50616;O43541;P12755;Q9UPN9}  
27177 Pathogen[ P03346] interacts with 6 human partners:{Q9UPN9;O15105;O43541;P50616;P84550;O95633}  
27178 Pathogen[ Q85601] interacts with 5 human partners:{Q9UPN9;O43541;P12755;P50616;O15105}  
27179 Pathogen[ P14079] interacts with 5 human partners:{P12755;Q9UPN9;O43541;P50616;O15105}  
27180 Pathogen[ P03383] interacts with 4 human partners:{Q9UPN9;O15105;O43541;P50616}  
27181 Pathogen[ P03410] interacts with 6 human partners:{P12755;Q9BQB4;O43541;O15105;Q9UPN9;P50616}  
27182 Pathogen[ P14075] interacts with 4 human partners:{O43541;Q9UPN9;P50616;O15105}  
27183 Pathogen[ P0C206] interacts with 7 human partners:{O43541;Q9UPN9;O95633;P12755;O15105;P50616;P84550}  
27184 Pathogen[ P03363] interacts with 5 human partners:{Q9UPN9;O15105;P50616;O43541;P84550}  
27185 [Cluster 2472]GO:0000720+P biological\_process [name] pyrimidine dimer repair by nucleotide-excision repair [def] "The repair of UV-induced T-T, C-T, and C-C dimers by the recognition and removal of the damaged DNA strand from the DNA helix as an oligonucleotide. The small gap left in the DNA helix is filled in by the sequential action of DNA polymerase and DNA ligase." [GOC  
27186 Pathogen[ Q2Q067] interacts with 1 human partners:{P05114}  
27187 Pathogen[ P0C214] interacts with 1 human partners:{P05114}  
27188 Pathogen[ P03346] interacts with 2 human partners:{P07992;P05114}  
27189 Pathogen[ Q85601] interacts with 1 human partners:{P05114}  
27190 Pathogen[ P14079] interacts with 2 human partners:{P05114;P07992}  
27191 Pathogen[ P03383] interacts with 1 human partners:{P05114}  
27192 Pathogen[ P03410] interacts with 2 human partners:{P07992;P05114}  
27193 Pathogen[ P14075] interacts with 1 human partners:{P05114}  
27194 Pathogen[ P0C206] interacts with 2 human partners:{P05114;P07992}  
27195 Pathogen[ P03363] interacts with 1 human partners:{P05114}  
27196 [Cluster 2473]GO:0033299+P biological\_process [name] secretion of lysosomal enzymes [def] "The controlled release of lysosomal enzymes by a cell or group of cells." [GOC  
27197 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9UL45;Q6QNY0}  
27198 Pathogen[ P0C214] interacts with 3 human partners:{Q99698;Q6QNY0;Q9UL45}  
27199 Pathogen[ P03346] interacts with 3 human partners:{Q99698;Q6QNY0;Q9UL45}  
27200 Pathogen[ Q85601] interacts with 2 human partners:{Q6QNY0;Q99698}  
27201 Pathogen[ P14079] interacts with 4 human partners:{Q6QNY0;Q92902;Q9UL45;Q99698}  
27202 Pathogen[ P03383] interacts with 1 human partners:{Q6QNY0}  
27203 Pathogen[ P03410] interacts with 4 human partners:{Q92902;Q6QNY0;Q9UL45;Q99698}  
27204 Pathogen[ P14075] interacts with 1 human partners:{Q6QNY0}  
27205 Pathogen[ P0C206] interacts with 3 human partners:{Q9UL45;Q99698;Q6QNY0}  
27206 Pathogen[ P03363] interacts with 3 human partners:{Q92902;Q99698;Q6QNY0}  
27207 [Cluster 2474]GO:0006978+P biological\_process [name] DNA damage response, signal transduction by p53 class mediator resulting in transcription of p21 class mediator [def] "A cascade of processes induced by the cell cycle regulator phosphoprotein p53, or an equivalent protein, resulting in the induction of the transcription of p21 (also known as WAF1, CIP1 and SDI1) or any equivalent protein, in response to the detection of DNA damage." [PMID  
27208 Pathogen[ Q2Q067] interacts with 6 human partners:{Q01664;Q9UNL4;O15350;Q08050;Q92993;P23497}  
27209 Pathogen[ P0C214] interacts with 5 human partners:{Q92993;O15350;Q9UNL4;P23497;Q01664}  
27210 Pathogen[ P03346] interacts with 7 human partners:{Q9UNL4;Q08050;O15350;P51587;P23497;Q92993;Q01664}  
27211 Pathogen[ Q85601] interacts with 6 human partners:{Q9UNL4;Q08050;O15350;Q92993;Q01664;P51587}  
27212 Pathogen[ P14079] interacts with 7 human partners:{Q9UNL4;P51587;P23497;O15350;Q01664;P15941;Q92993}  
27213 Pathogen[ P03383] interacts with 5 human partners:{Q9UNL4;Q92993;Q01664;O15350;P23497}  
27214 Pathogen[ P03410] interacts with 6 human partners:{P15941;Q9UNL4;P51587;Q01664;O15350;Q92993}  
27215 Pathogen[ P14075] interacts with 6 human partners:{P23497;Q08050;Q92993;Q01664;O15350;Q9UNL4}  
27216 Pathogen[ P0C206] interacts with 6 human

27217 partners:{P51587;Q92993;Q08050;Q01664;O15350;Q9UNL4}  
 Pathogen[ P03363] interacts with 5 human  
 partners:{P23497;Q9UNL4;Q08050;Q01664;Q92993}

27218 [Cluster 2475]GO:0048793+P biological\_process [name] pronephros development [def]  
 "The process whose specific outcome is the progression of the pronephros over time, from  
 its formation to the mature structure. In mammals, the pronephros is the first of the  
 three embryonic kidneys to be established and exists only transiently. In lower  
 vertebrates such as fish and amphibia, the pronephros is the fully functional embryonic  
 kidney and is indispensable for larval life." [GOC  
 27219 Pathogen[ Q2Q067] interacts with 2 human partners:{P35680;O15078}  
 27220 Pathogen[ P0C214] interacts with 1 human partners:{O15078}  
 27221 Pathogen[ P03346] interacts with 3 human partners:{Q06710;P35680;O15078}  
 27222 Pathogen[ Q85601] interacts with 2 human partners:{O15078;P35680}  
 27223 Pathogen[ P14079] interacts with 2 human partners:{P35680;O15078}  
 27224 Pathogen[ P03383] interacts with 1 human partners:{O15078}  
 27225 Pathogen[ P03410] interacts with 2 human partners:{O15078;P35680}  
 27226 Pathogen[ P14075] interacts with 1 human partners:{O15078}  
 27227 Pathogen[ P0C206] interacts with 2 human partners:{P35680;O15078}  
 27228 Pathogen[ P03363] interacts with 1 human partners:{O15078}

27229 [Cluster 2476]GO:0000722+P biological\_process [name] telomere maintenance via  
 recombination [def] "Any recombinational process that contributes to the maintenance  
 of proper telomeric length." [GOC  
 27230 Pathogen[ Q2Q067] interacts with 13 human  
 partners:{Q15054;Q8IY18;P27694;P35244;P49005;P12004;Q14181;P15927;P56282;Q9HCU8;P397  
 48;P35251;Q96MF7}  
 27231 Pathogen[ P0C214] interacts with 12 human  
 partners:{Q8IY18;P35251;P49005;Q9HCU8;Q96MF7;P15927;P35244;P39748;Q15054;P27694;P562  
 82;Q14181}  
 27232 Pathogen[ P03346] interacts with 16 human  
 partners:{P12004;Q9HCU8;Q96MF7;P27694;P35244;P35250;P56282;P49005;P15927;P35249;Q141  
 81;P35251;P39748;Q8IY18;P40937;Q15054}  
 27233 Pathogen[ Q85601] interacts with 13 human  
 partners:{Q8IY18;P56282;P35244;P49005;Q15054;P27694;P15927;P35251;Q14181;Q9HCU8;P120  
 04;P39748;Q96MF7}  
 27234 Pathogen[ P14079] interacts with 16 human  
 partners:{Q96MF7;P40937;P49005;Q9HCU8;Q15054;P35250;P56282;P35251;P49642;Q14181;P159  
 27;P27694;Q8IY18;P12004;P35244;P39748}  
 27235 Pathogen[ P03383] interacts with 10 human  
 partners:{Q9HCU8;Q14181;P27694;P49005;Q96MF7;P56282;P15927;P35244;Q15054;P35251}  
 27236 Pathogen[ P03410] interacts with 16 human  
 partners:{P35244;Q14181;P39748;P56282;Q96MF7;P35251;Q15054;Q8IY18;P49005;P27694;P159  
 27;P35250;P40937;P12004;P49642;Q9HCU8}  
 27237 Pathogen[ P14075] interacts with 10 human  
 partners:{P49005;P15927;P35244;P35251;Q15054;P27694;Q9HCU8;P56282;Q96MF7;Q14181}  
 27238 Pathogen[ P0C206] interacts with 14 human  
 partners:{P35251;Q9HCU8;P49005;P49642;Q15054;Q14181;Q96MF7;P56282;P27694;P15927;P397  
 48;P35244;Q8IY18;P12004}  
 27239 Pathogen[ P03363] interacts with 10 human  
 partners:{P27694;P35251;P49005;Q14181;P35244;P15927;Q9HCU8;Q15054;Q8IY18;Q96MF7}

27240 [Cluster 2477]GO:2000045+P biological\_process [name] regulation of G1/S transition of  
 mitotic cell cycle [def] "Any process that modulates the frequency, rate or extent of  
 G1/S transition of mitotic cell cycle." [GOC  
 27241 Pathogen[ Q2Q067] interacts with 4 human partners:{P55957;Q01094;Q7Z2X4;Q9ULG1}  
 27242 Pathogen[ P0C214] interacts with 4 human partners:{P55957;Q9ULG1;Q7Z2X4;Q01094}  
 27243 Pathogen[ P03346] interacts with 5 human  
 partners:{Q9ULG1;P55957;Q7Z2X4;Q01094;Q496M5}  
 27244 Pathogen[ Q85601] interacts with 5 human  
 partners:{Q7Z2X4;P55957;Q9ULG1;Q496M5;Q01094}  
 27245 Pathogen[ P14079] interacts with 4 human partners:{Q9ULG1;Q7Z2X4;Q01094;P55957}  
 27246 Pathogen[ P03383] interacts with 2 human partners:{Q01094;P55957}  
 27247 Pathogen[ P03410] interacts with 4 human partners:{Q9ULG1;P55957;Q7Z2X4;Q01094}  
 27248 Pathogen[ P14075] interacts with 2 human partners:{P55957;Q01094}  
 27249 Pathogen[ P0C206] interacts with 5 human  
 partners:{Q496M5;Q7Z2X4;Q9ULG1;Q01094;P55957}

27250 Pathogen[ P03363] interacts with 3 human partners:{P55957;Q9ULG1;Q01094}

27251 [Cluster 2478]GO:0022904+P biological\_process [name] respiratory electron transport  
 chain [def] "A process in which a series of electron carriers operate together to  
 transfer electrons from donors such as NADH and FADH2 to any of several different  
 terminal electron acceptors to generate a transmembrane electrochemical gradient." [GOC  
 27252 Pathogen[ Q2Q067] interacts with 16 human  
 partners:{O43920;P31040;P56181;P38117;O75489;P13073;O96000;Q9BQG0;O95178;O43678;O752  
 51;O75306;P99999;Q9P0J0;P21912;P24539}  
 27253 Pathogen[ P0C214] interacts with 32 human  
 partners:{Q16795;O75306;O43678;P22695;Q99643;P56556;P28331;O43920;O95299;P17568;Q9BQ  
 G0;Q99807;P36542;Q16718;O14561;O95298;P99999;P12074;Q9P0J0;P24539;P13073;P38117;O960  
 00;O95182;O75489;O14521;O75251;Q9UI09;P21912;P56181;O95178;P13804}

27254 Pathogen[ P03346] interacts with 16 human partners: {P31040;P56181;Q9BQG0;O75489;O43678;O95178;P21912;P99999;P24539;O43920;P13073;P38117;O75251;O96000;O75306;Q9P0J0}

27255 Pathogen[ Q85601] interacts with 11 human partners: {Q9P0J0;P99999;P24539;Q9BQG0;O75306;P21912;O43678;P56181;O96000;O43920;P31040}

27256 Pathogen[ P14079] interacts with 65 human partners: {P56181;P22695;P36542;O43674;O43677;O43181;O95169;Q99807;P56134;P56556;P13073;O95139;P25705;P12074;O96000;O95167;O75306;P00395;P00403;P17568;P56385;P10606;Q9UDW1;P14927;P13804;Q86Y39;O95182;P07919;O14949;P14854;P20674;P38117;P03928;P31040;O14548;O43676;O43678;P51970;Q9BQG0;O95178;O75251;O14561;Q9UI09;P00156;O95299;P09669;Q9P0J0;O75964;O75489;P03923;Q16718;P03897;P56381;P15954;O14521;O43920;O15239;P99999;O43819;P24539;O00483;P03901;P03886;O95298;P21912}

27257 Pathogen[ P03383] interacts with 14 human partners: {Q9BQG0;P13073;O75251;P31040;O96000;O43678;O43920;O75489;O75306;O95178;P99999;Q9P0J0;P56181;P24539}

27258 Pathogen[ P03410] interacts with 69 human partners: {O95168;O43674;P56556;P17568;P13804;O95178;P36542;O75380;O43678;P25705;O75251;O14548;P15954;O95299;P51970;O43920;Q9UI09;O96000;P07919;P20674;O95167;P56385;O15239;Q9Y6M9;P38117;P13073;P56381;P22695;P03886;O00483;O95298;O75438;Q9UDW1;P56181;P00156;O14561;P14927;P31040;P03928;O75489;P24539;Q86Y39;P21912;Q9BQG0;O75964;P99999;P09669;Q99643;P03897;O43677;O95169;O43181;O14521;Q16718;O75306;P00403;O43676;O14949;P14854;Q99807;P03901;Q9P0J0;P03923;P18859;P56134;P10606;O43819;P12074;O95182}

27259 Pathogen[ P14075] interacts with 22 human partners: {O43674;P56181;O96000;O95182;O43677;P13073;P31040;O43920;O75306;O14561;O95298;O43678;Q9BQG0;P99999;O75251;P24539;P38117;P56385;O75489;O95178;Q9P0J0;O43676}

27260 Pathogen[ P0C206] interacts with 32 human partners: {P99999;P56181;O75251;Q9UDW1;O43920;O14521;O75306;P12074;P36542;O95182;P38117;Q9UI09;O95298;P22695;O14561;O00483;Q9BQG0;P17568;O95178;Q99807;P13073;P31040;P24539;Q9P0J0;O43678;O75489;P56381;P21912;O96000;O43674;P56385;P56556}

27261 Pathogen[ P03363] interacts with 6 human partners: {P31040;P99999;Q9BQG0;Q9P0J0;O96000;P56181}

27262 [Cluster 2479]GO:0070207+P biological\_process [name] protein homotrimerization [def] "The formation of a protein homotrimer, a macromolecular structure consisting of three noncovalently associated identical subunits." [GOC]

27263 Pathogen[ Q2Q067] interacts with 5 human partners: {Q8TCS8;Q12933;Q9ULV5;P12755;P12757}

27264 Pathogen[ P0C214] interacts with 6 human partners: {P00480;P12757;Q12933;Q8TCS8;P12755;Q9ULV5}

27265 Pathogen[ P03346] interacts with 3 human partners: {P12757;Q8TCS8;Q9ULV5}

27266 Pathogen[ Q85601] interacts with 6 human partners: {Q9ULV5;P00480;P12757;P12755;Q12933;Q8TCS8}

27267 Pathogen[ P14079] interacts with 8 human partners: {P12755;P20292;P10620;P00480;Q12933;P12757;Q9ULV5;Q8TCS8}

27268 Pathogen[ P03383] interacts with 4 human partners: {Q8TCS8;Q9ULV5;Q12933;P12757}

27269 Pathogen[ P03410] interacts with 7 human partners: {Q8TCS8;P12755;P00480;Q12933;P12757;Q9ULV5;P20292}

27270 Pathogen[ P14075] interacts with 4 human partners: {P12757;Q9ULV5;Q12933;Q8TCS8}

27271 Pathogen[ P0C206] interacts with 7 human partners: {Q8TCS8;Q12933;P12755;Q9ULV5;P12757;P20292;P00480}

27272 Pathogen[ P03363] interacts with 3 human partners: {P12757;Q12933;Q9ULV5}

27273 [Cluster 2480]GO:0003214+P biological\_process [name] cardiac left ventricle morphogenesis [def] "The process in which the left cardiac ventricle is generated and organized." [GOC]

27274 Pathogen[ Q2Q067] interacts with 1 human partners: {Q06330}

27275 Pathogen[ P0C214] interacts with 1 human partners: {Q06330}

27276 Pathogen[ P03346] interacts with 1 human partners: {Q06330}

27277 Pathogen[ Q85601] interacts with 1 human partners: {Q06330}

27278 Pathogen[ P14079] interacts with 1 human partners: {Q06330}

27279 Pathogen[ P03383] interacts with 1 human partners: {Q06330}

27280 Pathogen[ P03410] interacts with 1 human partners: {Q06330}

27281 Pathogen[ P14075] interacts with 1 human partners: {Q06330}

27282 Pathogen[ P0C206] interacts with 1 human partners: {Q06330}

27283 Pathogen[ P03363] interacts with 1 human partners: {Q06330}

27284 [Cluster 2481]GO:0007252+P biological\_process [name] I-kappaB phosphorylation [def] "The process of introducing a phosphate group into an I-kappaB protein." [GOC]

27285 Pathogen[ Q2Q067] interacts with 5 human partners: {Q8IUD2;O95163;O14920;O43318;O15111}

27286 Pathogen[ P0C214] interacts with 6 human partners: {O15111;Q14164;O43318;Q8IUD2;O95163;O14920}

27287 Pathogen[ P03346] interacts with 6 human partners: {O15111;Q8IUD2;O95163;O14920;O43318;Q14164}

27288 Pathogen[ Q85601] interacts with 6 human partners: {O15111;Q14164;O14920;O43318;O95163;Q8IUD2}

27289 Pathogen[ P14079] interacts with 3 human partners: {Q14164;O95163;Q8IUD2}

27290 Pathogen[ P03383] interacts with 5 human

27291 partners:{O95163;O14920;O15111;O43318;Q8IUD2}  
Pathogen[ P03410] interacts with 5 human

27292 partners:{O14920;O15111;O43318;Q8IUD2;O95163}  
Pathogen[ P14075] interacts with 5 human

27293 partners:{O15111;Q8IUD2;O14920;O43318;O95163}  
Pathogen[ P0C206] interacts with 6 human

27294 partners:{O14920;O43318;Q8IUD2;O95163;Q14164;O15111}  
Pathogen[ P03363] interacts with 5 human

27295 partners:{O14920;O15111;O43318;O95163;Q8IUD2}  
[Cluster 2482]GO:0010845+P biological\_process [name] positive regulation of reciprocal meiotic recombination [def] "Any process that increases the frequency, rate or extent of recombination during meiosis. Reciprocal meiotic recombination is the cell cycle process in which double strand breaks are formed and repaired through a double Holliday junction intermediate." [GOC

27296 Pathogen[ Q2Q067] interacts with 1 human partners:{P63146}  
27297 Pathogen[ P0C214] interacts with 2 human partners:{P63146;Q9NQV7}  
27298 Pathogen[ P03346] interacts with 2 human partners:{Q9NQV7;P63146}  
27299 Pathogen[ Q85601] interacts with 2 human partners:{Q9NQV7;P63146}  
27300 Pathogen[ P14079] interacts with 2 human partners:{Q9NQV7;P63146}  
27301 Pathogen[ P03383] interacts with 1 human partners:{P63146}  
27302 Pathogen[ P03410] interacts with 2 human partners:{Q9NQV7;P63146}  
27303 Pathogen[ P14075] interacts with 1 human partners:{P63146}  
27304 Pathogen[ P0C206] interacts with 2 human partners:{Q9NQV7;P63146}  
27305 Pathogen[ P03363] interacts with 1 human partners:{P63146}

27306 [Cluster 2483]GO:0045900+P biological\_process [name] negative regulation of translational elongation [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of translational elongation." [GOC

27307 Pathogen[ Q2Q067] interacts with 2 human partners:{P49458;O76064}  
27308 Pathogen[ P0C214] interacts with 3 human partners:{P49458;Q8IYW5;O76064}  
27309 Pathogen[ P03346] interacts with 3 human partners:{O76064;P49458;Q8IYW5}  
27310 Pathogen[ Q85601] interacts with 2 human partners:{O76064;Q8IYW5}  
27311 Pathogen[ P14079] interacts with 1 human partners:{P49458}  
27312 Pathogen[ P03383] interacts with 1 human partners:{P49458}  
27313 Pathogen[ P03410] interacts with 1 human partners:{P49458}  
27314 Pathogen[ P14075] interacts with 1 human partners:{P49458}  
27315 Pathogen[ P0C206] interacts with 3 human partners:{Q8IYW5;P49458;O76064}  
27316 Pathogen[ P03363] interacts with 2 human partners:{Q8IYW5;P49458}

27317 [Cluster 2484]GO:0042177+P biological\_process [name] negative regulation of protein catabolic process [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the chemical reactions and pathways resulting in the breakdown of a protein by the destruction of the native, active configuration, with or without the hydrolysis of peptide bonds." [GOC

27318 Pathogen[ Q2Q067] interacts with 6 human  
partners:{Q13485;Q8N9N5;Q04206;Q13257;P84022;Q9UI95}

27319 Pathogen[ P0C214] interacts with 8 human  
partners:{Q13257;Q8N9N5;P84022;Q04206;Q9UI95;Q13485;P07093;Q96P63}

27320 Pathogen[ P03346] interacts with 8 human  
partners:{Q04206;Q9UI95;P84022;Q8N9N5;O15151;Q96P63;Q13485;Q13257}

27321 Pathogen[ Q85601] interacts with 10 human  
partners:{O15151;Q9UI95;Q13257;Q04206;Q8N9N5;P84022;Q4G163;P07093;Q13485;Q96P63}

27322 Pathogen[ P14079] interacts with 4 human partners:{Q8N9N5;Q4G163;Q13257;O15151}  
27323 Pathogen[ P03383] interacts with 7 human  
partners:{Q13257;Q13485;Q9UI95;P84022;Q8N9N5;Q96P63;Q04206}

27324 Pathogen[ P03410] interacts with 9 human  
partners:{P84022;Q4G163;Q04206;Q9UI95;O15151;Q8N9N5;Q96P63;Q13485;Q13257}

27325 Pathogen[ P14075] interacts with 6 human  
partners:{Q8N9N5;Q04206;Q13257;Q9UI95;Q13485;P84022}

27326 Pathogen[ P0C206] interacts with 9 human  
partners:{P84022;Q8N9N5;Q13257;O15151;Q04206;Q13485;Q96P63;Q4G163;Q9UI95}

27327 Pathogen[ P03363] interacts with 8 human  
partners:{Q04206;Q8N9N5;O15151;Q96P63;P84022;Q9UI95;Q13257;Q13485}

27328 [Cluster 2485]GO:0050709+P biological\_process [name] negative regulation of protein secretion [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the controlled release of a protein from a cell or group of cells." [GOC

27329 Pathogen[ Q2Q067] interacts with 2 human partners:{Q96FX2;Q9UGK8}  
27330 Pathogen[ P0C214] interacts with 3 human partners:{Q96FX2;Q8WXG1;Q9UGK8}  
27331 Pathogen[ P03346] interacts with 2 human partners:{Q9UGK8;Q96FX2}  
27332 Pathogen[ Q85601] interacts with 2 human partners:{Q96FX2;Q9UGK8}  
27333 Pathogen[ P14079] interacts with 4 human partners:{P04083;Q96FX2;Q9UGK8;Q8WXG1}  
27334 Pathogen[ P03383] interacts with 2 human partners:{Q96FX2;Q9UGK8}  
27335 Pathogen[ P03410] interacts with 3 human partners:{Q96FX2;Q8WXG1;Q9UGK8}  
27336 Pathogen[ P14075] interacts with 2 human partners:{Q9UGK8;Q96FX2}  
27337 Pathogen[ P0C206] interacts with 3 human partners:{Q9UGK8;Q96FX2;Q8WXG1}  
27338 Pathogen[ P03363] interacts with 2 human partners:{Q9UGK8;Q96FX2}

27339 [Cluster 2486]GO:0003341+P biological\_process [name] cilium movement [def] "The directed, self-propelled movement of a cilium." [GOC

27340 Pathogen[ Q2Q067] interacts with 1 human partners:{Q5TD94}  
27341 Pathogen[ P0C214] interacts with 1 human partners:{Q5TD94}  
27342 Pathogen[ P03346] interacts with 1 human partners:{Q5TD94}  
27343 Pathogen[ Q85601] interacts with 1 human partners:{Q5TD94}  
27344 Pathogen[ P14079] interacts with 3 human partners:{Q9H1X1;Q5TD94;Q8IW40}  
27345 Pathogen[ P03383] interacts with 1 human partners:{Q5TD94}  
27346 Pathogen[ P03410] interacts with 3 human partners:{Q5TD94;Q9H1X1;Q8IW40}  
27347 Pathogen[ P14075] interacts with 1 human partners:{Q5TD94}  
27348 Pathogen[ P0C206] interacts with 3 human partners:{Q5TD94;Q9H1X1;Q8IW40}  
27349 Pathogen[ P03363] interacts with 3 human partners:{Q9H1X1;Q5TD94;Q8IW40}  
27350 [Cluster 2487]GO:0001833+P biological\_process [name] inner cell mass cell proliferation [def] "The proliferation of cells in the inner cell mass." [GOC  
27351 Pathogen[ Q2Q067] interacts with 7 human partners:{Q86YC2;Q86XI2;Q14691;Q9Y3A5;Q15047;Q7Z7C8;O60885}  
27352 Pathogen[ P0C214] interacts with 7 human partners:{Q86XI2;Q15047;Q7Z7C8;Q14691;Q86YC2;O60885;Q9Y3A5}  
27353 Pathogen[ P03346] interacts with 9 human partners:{Q14691;Q9UJQ4;Q7Z7C8;Q86XI2;P51587;Q86YC2;O60885;Q15047;Q9Y3A5}  
27354 Pathogen[ Q85601] interacts with 9 human partners:{Q7Z7C8;Q9Y3A5;Q14691;Q86YC2;O60885;Q86XI2;Q15047;Q9GZM8;P51587}  
27355 Pathogen[ P14079] interacts with 10 human partners:{Q15047;Q14691;P51587;Q9Y3A5;Q86YC2;Q8N201;Q9UJQ4;Q9GZM8;Q86XI2;O60885}  
27356 Pathogen[ P03383] interacts with 6 human partners:{Q15047;Q86XI2;Q9Y3A5;O60885;Q86YC2;Q14691}  
27357 Pathogen[ P03410] interacts with 10 human partners:{Q15047;O60885;Q9GZM8;Q8N201;P51587;Q14691;Q86XI2;Q9UJQ4;Q9Y3A5;Q86YC2}  
27358 Pathogen[ P14075] interacts with 7 human partners:{Q86YC2;Q86XI2;Q15047;Q7Z7C8;Q14691;O60885;Q9Y3A5}  
27359 Pathogen[ P0C206] interacts with 11 human partners:{Q9UJQ4;Q86YC2;P51587;Q9GZM8;Q86XI2;Q14691;O60885;Q9Y3A5;Q7Z7C8;Q15047;Q8N201}  
27360 Pathogen[ P03363] interacts with 8 human partners:{Q14691;Q9UJQ4;Q86XI2;Q9Y3A5;O60885;Q7Z7C8;Q15047;Q86YC2}  
27361 [Cluster 2488]GO:2000042+P biological\_process [name] negative regulation of double-strand break repair via homologous recombination [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of double-strand break repair via homologous recombination." [GOC  
27362 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NWS1}  
27363 Pathogen[ P0C214] interacts with 1 human partners:{Q9NWS1}  
27364 Pathogen[ P03346] interacts with 1 human partners:{Q9NWS1}  
27365 Pathogen[ Q85601] interacts with 1 human partners:{Q9NWS1}  
27366 Pathogen[ P14079] interacts with 1 human partners:{Q9NWS1}  
27367 Pathogen[ P03383] interacts with 1 human partners:{Q9NWS1}  
27368 Pathogen[ P03410] interacts with 1 human partners:{Q9NWS1}  
27369 Pathogen[ P14075] interacts with 1 human partners:{Q9NWS1}  
27370 Pathogen[ P0C206] interacts with 1 human partners:{Q9NWS1}  
27371 Pathogen[ P03363] interacts with 1 human partners:{Q9NWS1}  
27372 [Cluster 2489]GO:0042518+P biological\_process [name] negative regulation of tyrosine phosphorylation of Stat3 protein [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the introduction of a phosphate group to a tyrosine residue of a Stat3 protein." [GOC  
27373 Pathogen[ Q2Q067] interacts with 2 human partners:{P30153;P67775}  
27374 Pathogen[ P0C214] interacts with 3 human partners:{P30153;P67775;O15524}  
27375 Pathogen[ P03346] interacts with 3 human partners:{O15524;P67775;P30153}  
27376 Pathogen[ Q85601] interacts with 2 human partners:{P30153;P67775}  
27377 Pathogen[ P14079] interacts with 1 human partners:{P30153}  
27378 Pathogen[ P03383] interacts with 2 human partners:{P30153;P67775}  
27379 Pathogen[ P03410] interacts with 2 human partners:{P30153;P67775}  
27380 Pathogen[ P14075] interacts with 2 human partners:{P67775;P30153}  
27381 Pathogen[ P0C206] interacts with 3 human partners:{P30153;O15524;P67775}  
27382 Pathogen[ P03363] interacts with 3 human partners:{O15524;P30153;P67775}  
27383 [Cluster 2490]GO:0022037+P biological\_process [name] metencephalon development [def] "The process whose specific outcome is the progression of the metencephalon over time, from its formation to the mature structure." [GO\_REF  
27384 Pathogen[ Q2Q067] interacts with 1 human partners:{Q92830}  
27385 Pathogen[ P0C214] interacts with 1 human partners:{Q92830}  
27386 Pathogen[ P03346] interacts with 1 human partners:{Q92830}  
27387 Pathogen[ Q85601] interacts with 1 human partners:{Q92830}  
27388 Pathogen[ P14079] interacts with 1 human partners:{Q92830}  
27389 Pathogen[ P03383] interacts with 1 human partners:{Q92830}  
27390 Pathogen[ P03410] interacts with 1 human partners:{Q92830}  
27391 Pathogen[ P14075] interacts with 1 human partners:{Q92830}  
27392 Pathogen[ P0C206] interacts with 1 human partners:{Q92830}  
27393 Pathogen[ P03363] interacts with 1 human partners:{Q92830}  
27394 [Cluster 2491]GO:0042693+P biological\_process [name] muscle cell fate commitment [def] "The process in which the cellular identity of muscle cells is acquired and

determined." [CL  
27395 Pathogen[ Q2Q067] interacts with 3 human partners:{P13349;P15172;P23409}  
27396 Pathogen[ POC214] interacts with 2 human partners:{P13349;P15172}  
27397 Pathogen[ P03346] interacts with 4 human partners:{P13349;P15172;P23409;P15173}  
27398 Pathogen[ Q85601] interacts with 3 human partners:{P15172;P13349;P23409}  
27399 Pathogen[ P14079] interacts with 2 human partners:{P13349;P23409}  
27400 Pathogen[ P03383] interacts with 1 human partners:{P15172}  
27401 Pathogen[ P03410] interacts with 2 human partners:{P23409;P13349}  
27402 Pathogen[ P14075] interacts with 1 human partners:{P15172}  
27403 Pathogen[ POC206] interacts with 3 human partners:{P23409;P13349;P15172}  
27404 Pathogen[ P03363] interacts with 3 human partners:{P13349;P23409;P15172}  
27405 [Cluster 2492]GO:0045143+P biological\_process [name] homologous chromosome segregation  
[def] "The cell cycle process in which replicated homologous chromosomes are organized  
and then physically separated and apportioned to two sets during the first division of  
the meiotic cell cycle. Each replicated chromosome, composed of two sister chromatids,  
aligns at the cell equator, paired with its homologous partner\_ this pairing off,  
referred to as synapsis, permits genetic recombination. One homolog (both sister  
chromatids) of each morphologic type goes into each of the resulting chromosome sets."  
[GOC  
27406 Pathogen[ Q2Q067] interacts with 2 human partners:{O95997;Q14674}  
27407 Pathogen[ POC214] interacts with 2 human partners:{O95997;Q14674}  
27408 Pathogen[ P03346] interacts with 2 human partners:{O95997;Q14674}  
27409 Pathogen[ Q85601] interacts with 2 human partners:{Q14674;O95997}  
27410 Pathogen[ P14079] interacts with 3 human partners:{O43196;Q14674;O95997}  
27411 Pathogen[ P03383] interacts with 2 human partners:{Q14674;O95997}  
27412 Pathogen[ P03410] interacts with 3 human partners:{O95997;Q14674;O43196}  
27413 Pathogen[ P14075] interacts with 2 human partners:{O95997;Q14674}  
27414 Pathogen[ POC206] interacts with 2 human partners:{O95997;Q14674}  
27415 Pathogen[ P03363] interacts with 2 human partners:{Q14674;O95997}  
27416 [Cluster 2493]GO:0007076+P biological\_process [name] mitotic chromosome condensation  
[def] "The cell cycle process in which chromatin structure is compacted prior to and  
during mitosis in eukaryotic cells." [GOC  
27417 Pathogen[ Q2Q067] interacts with 10 human  
partners:{P42695;O95347;O43823;Q15003;Q15021;Q9HD42;Q86YI8;Q9BXS6;Q9BPX3;Q96FF9}  
27418 Pathogen[ POC214] interacts with 10 human  
partners:{Q9BPX3;Q15003;Q9BXS6;Q9HD42;P42695;Q96FF9;O95347;O43823;Q86YI8;Q15021}  
27419 Pathogen[ P03346] interacts with 11 human  
partners:{Q9BXS6;Q5XG87;Q96FF9;Q9HD42;O95347;Q9BPX3;Q15021;P42695;Q86YI8;Q15003;O438  
23}  
27420 Pathogen[ Q85601] interacts with 11 human  
partners:{O95347;P42695;Q9BXS6;Q9BPX3;Q5XG87;Q86YI8;O43823;Q15003;Q96FF9;Q9HD42;Q150  
21}  
27421 Pathogen[ P14079] interacts with 11 human  
partners:{Q96FF9;O43823;Q5XG87;Q9HD42;Q15003;Q9BXS6;O95347;Q86YI8;Q9BPX3;Q15021;P426  
95}  
27422 Pathogen[ P03383] interacts with 8 human  
partners:{Q9BXS6;O95347;Q15003;Q86YI8;Q9HD42;Q96FF9;Q9BPX3;Q15021}  
27423 Pathogen[ P03410] interacts with 11 human  
partners:{P42695;Q15003;Q9BXS6;O95347;Q9HD42;Q5XG87;Q96FF9;Q9BPX3;O43823;Q15021;Q86Y  
I8}  
27424 Pathogen[ P14075] interacts with 9 human  
partners:{Q9BXS6;Q96FF9;O95347;Q86YI8;Q9HD42;Q15003;O43823;Q9BPX3;Q15021}  
27425 Pathogen[ POC206] interacts with 12 human  
partners:{Q9BPX3;Q5XG87;P42695;Q15021;Q96FF9;Q15003;O95347;Q86YI8;O43823;Q9HD42;Q9BX  
S6;Q9NTJ3}  
27426 Pathogen[ P03363] interacts with 8 human  
partners:{Q15021;O95347;Q9BXS6;Q9BPX3;P42695;Q96FF9;Q15003;Q9HD42}  
27427 [Cluster 2494]GO:0070076+P biological\_process [name] histone lysine demethylation  
[def] "The modification of a histone by the removal of a methyl group from a lysine  
residue." [GOC  
27428 Pathogen[ Q2Q067] interacts with 1 human partners:{P63146}  
27429 Pathogen[ POC214] interacts with 1 human partners:{P63146}  
27430 Pathogen[ P03346] interacts with 1 human partners:{P63146}  
27431 Pathogen[ Q85601] interacts with 1 human partners:{P63146}  
27432 Pathogen[ P14079] interacts with 1 human partners:{P63146}  
27433 Pathogen[ P03383] interacts with 1 human partners:{P63146}  
27434 Pathogen[ P03410] interacts with 1 human partners:{P63146}  
27435 Pathogen[ P14075] interacts with 1 human partners:{P63146}  
27436 Pathogen[ POC206] interacts with 1 human partners:{P63146}  
27437 Pathogen[ P03363] interacts with 1 human partners:{P63146}  
27438 [Cluster 2495]GO:0060317+P biological\_process [name] cardiac epithelial to mesenchymal  
transition [def] "A transition where a cardiac epithelial cell loses apical/basolateral  
polarity, severs intercellular adhesive junctions, degrades basement membrane components  
and becomes a migratory mesenchymal cell." [GOC  
27439 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9NQ87;Q9Y5J3}  
27440 Pathogen[ POC214] interacts with 2 human partners:{Q9Y5J3;Q9NQ87}

27441 Pathogen[ P03346] interacts with 2 human partners:{Q9Y5J3;Q9NQ87}  
27442 Pathogen[ Q85601] interacts with 2 human partners:{Q9NQ87;Q9Y5J3}  
27443 Pathogen[ P14079] interacts with 2 human partners:{Q9Y5J3;Q9NQ87}  
27444 Pathogen[ P03383] interacts with 1 human partners:{Q9NQ87}  
27445 Pathogen[ P03410] interacts with 2 human partners:{Q9Y5J3;Q9NQ87}  
27446 Pathogen[ P14075] interacts with 1 human partners:{Q9NQ87}  
27447 Pathogen[ P0C206] interacts with 2 human partners:{Q9NQ87;Q9Y5J3}  
27448 Pathogen[ P03363] interacts with 2 human partners:{Q9Y5J3;Q9NQ87}  
27449 [Cluster 2496]GO:0090292+P biological\_process [name] nuclear matrix anchoring at nuclear membrane [def] "The process in which the nuclear matrix, the dense fibrillar network lying on the inner side of the nuclear membrane, is directly or indirectly linked to the nuclear membrane." [GOC  
27450 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9UH99;Q8NF91}  
27451 Pathogen[ P0C214] interacts with 2 human partners:{Q9UH99;Q8NF91}  
27452 Pathogen[ P03346] interacts with 3 human partners:{Q9UH99;Q8NF91;O94901}  
27453 Pathogen[ Q85601] interacts with 3 human partners:{Q9UH99;Q8NF91;O94901}  
27454 Pathogen[ P14079] interacts with 3 human partners:{O94901;Q8NF91;Q9UH99}  
27455 Pathogen[ P03383] interacts with 1 human partners:{Q9UH99}  
27456 Pathogen[ P03410] interacts with 3 human partners:{Q9UH99;O94901;Q8NF91}  
27457 Pathogen[ P14075] interacts with 1 human partners:{Q9UH99}  
27458 Pathogen[ P0C206] interacts with 3 human partners:{Q9UH99;O94901;Q8NF91}  
27459 Pathogen[ P03363] interacts with 3 human partners:{Q8NF91;O94901;Q9UH99}  
27460 [Cluster 2497]GO:2000116+P biological\_process [name] regulation of cysteine-type endopeptidase activity [def] "Any process that modulates the frequency, rate or extent of cysteine-type endopeptidase activity." [GOC  
27461 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13490}  
27462 Pathogen[ P0C214] interacts with 1 human partners:{Q13490}  
27463 Pathogen[ P03346] interacts with 2 human partners:{Q13489;Q13490}  
27464 Pathogen[ Q85601] interacts with 1 human partners:{Q13490}  
27465 Pathogen[ P14079] interacts with 1 human partners:{Q13490}  
27466 Pathogen[ P03383] interacts with 1 human partners:{Q13490}  
27467 Pathogen[ P03410] interacts with 1 human partners:{Q13490}  
27468 Pathogen[ P14075] interacts with 1 human partners:{Q13490}  
27469 Pathogen[ P0C206] interacts with 2 human partners:{Q13489;Q13490}  
27470 Pathogen[ P03363] interacts with 2 human partners:{Q13490;Q13489}  
27471 [Cluster 2498]GO:0030511+P biological\_process [name] positive regulation of transforming growth factor beta receptor signaling pathway [def] "Any process that activates or increases the frequency, rate or extent of TGF-beta receptor signaling pathway activity." [GOC  
27472 Pathogen[ Q2Q067] interacts with 7 human partners:{Q13485;Q6ZNA4;Q99966;O00255;Q9H160;P49918;P42772}  
27473 Pathogen[ P0C214] interacts with 7 human partners:{Q99966;P49918;Q13485;Q9H160;Q6ZNA4;O00255;P42772}  
27474 Pathogen[ P03346] interacts with 8 human partners:{O14908;Q99966;P42772;P49918;O00255;Q6ZNA4;Q13485;Q9H160}  
27475 Pathogen[ Q85601] interacts with 7 human partners:{Q99966;P42772;O00255;P49918;Q6ZNA4;Q9H160;Q13485}  
27476 Pathogen[ P14079] interacts with 7 human partners:{Q6ZNA4;Q99966;P49918;O43294;O00255;O14908;Q9H160}  
27477 Pathogen[ P03383] interacts with 6 human partners:{Q13485;Q6ZNA4;Q9H160;P42772;O00255;P49918}  
27478 Pathogen[ P03410] interacts with 9 human partners:{Q6ZNA4;P42772;O43294;O14908;Q9H160;Q13485;P49918;O00255;Q99966}  
27479 Pathogen[ P14075] interacts with 6 human partners:{Q13485;O00255;Q6ZNA4;P49918;P42772;Q9H160}  
27480 Pathogen[ P0C206] interacts with 9 human partners:{Q6ZNA4;O00255;P42772;Q9H160;O14908;O43294;Q13485;Q99966;P49918}  
27481 Pathogen[ P03363] interacts with 6 human partners:{Q9H160;P49918;O14908;Q6ZNA4;P42772;Q13485}  
27482 [Cluster 2499]GO:0006977+P biological\_process [name] DNA damage response, signal transduction by p53 class mediator resulting in cell cycle arrest [def] "A cascade of processes induced by the cell cycle regulator phosphoprotein p53, or an equivalent protein, in response to the detection of DNA damage and resulting in the stopping or reduction in rate of the cell cycle." [GOC  
27483 Pathogen[ Q2Q067] interacts with 50 human partners:{Q8NHY2;Q99460;O75832;P48556;P40306;P55036;O00231;O00233;P51665;P28072;A5LHX3;Q13200;P25787;Q06323;P28065;O14818;Q9NYZ3;Q14997;P60900;Q9UL46;P61289;P28062;O43715;Q9UNM6;P25788;P42575;Q92530;P78560;Q9HB75;P25786;P38936;Q16401;O00232;P28074;P25789;P0CG47;P20618;P0CG48;P28070;P28066;Q99436;P24941;Q8TAA3;P62987;O43242;P49721;P46527;P49720;Q00987;P62979}  
27484 Pathogen[ P0C214] interacts with 52 human partners:{Q14997;P51665;P25789;P55036;P28062;A5LHX3;P28065;Q00987;O14818;O43242;P46527;O43715;P48556;Q8NHY2;P40306;Q13200;P38936;O00232;Q99460;P28066;O75832;P49720;P28074;P0CG48;Q9UL46;P25788;P24941;Q9UNM6;O00231;Q06323;P25786;Q9HB75;P28072;Q8TAA3;P62987;Q99436;P0CG47;P25787;Q9NYZ3;P78560;P35998;P60900;O00233;P62979;Q92530;Q15008;P28070;P42575;P20618;P49721;Q16401;P17980}



27485 Pathogen[ P03346] interacts with 52 human partners: {Q06945;P25787;P28070;P25789;P55036;Q13362;Q99460;Q9UL46;P62987;P28072;P25788;P28074;P49721;Q8NH2;P42575;O14818;Q99436;P24941;P0CG48;Q16401;A5LHX3;P28062;P20618;O00232;Q00987;Q75832;O00233;P78560;P49720;P28065;Q9HB75;P60900;P25786;O00231;P61289;P62979;P28066;Q9UNM6;Q8TAA3;P0CG47;Q9NYZ3;Q14997;Q13200;P48556;P51665;P38936;Q06323;P46527;O43715;Q92530;O43242;P40306}

27486 Pathogen[ Q85601] interacts with 46 human partners: {P28066;Q9UNM6;P60900;O43715;P55036;P25787;P61289;P25788;O75832;P0CG48;P25789;O00233;P20618;P40306;P49720;P42575;P28062;P49721;P25786;Q9NYZ3;P28072;Q13200;Q9HB75;P28065;P62979;Q99436;P28070;Q8TAA3;Q9UL46;Q99460;O00231;P0CG47;P48556;P28074;Q92530;P38936;P62987;A5LHX3;Q06323;Q00987;O14818;Q8NH2;P24941;Q16401;P78560;P46527}

27487 Pathogen[ P14079] interacts with 54 human partners: {P28065;Q99436;Q13362;P62333;P48556;P0CG48;P40306;P55036;P28074;O00232;Q9NYZ3;P49720;O00487;P25787;O75832;A5LHX3;P62979;O43715;O00233;P35998;P61289;P62987;P51665;P20618;Q00987;Q8TAA3;Q14997;P28062;P60900;P38936;Q9UNM6;Q99460;Q99445;O14818;P49721;Q92530;Q06323;P62191;P46527;P15941;Q15008;P43686;P42575;O43242;P25788;O00231;P28066;Q9UL46;P0CG47;Q9HB75;Q16401;P17980;P28072;Q8NH2}

27488 Pathogen[ P03383] interacts with 43 human partners: {P55036;P62987;P25789;P60900;P40306;O00233;P49721;Q06323;Q14997;P20618;O75832;P78560;P46527;P24941;O43715;Q9UL46;Q9UNM6;P25786;Q99460;Q9NYZ3;P28072;Q13200;P28065;P28066;Q16401;P62979;O00231;P0CG47;P0CG48;P28074;Q92530;P49720;Q8TAA3;P61289;Q8NH2;P28062;P48556;O14818;Q99436;P28070;P25787;Q9HB75;P25788}

27489 Pathogen[ P03410] interacts with 55 human partners: {Q8NH2;P28070;P46527;P55036;P0CG48;Q9HB75;P78560;P25786;Q15008;Q16401;P60900;Q14997;P15941;P42575;P35998;Q99460;O00233;O00232;Q99445;Q8TAA3;P48556;P49721;Q9NYZ3;A5LHX3;P62979;Q99436;P40306;Q06323;O43715;Q13200;P25787;P38936;P24941;P28062;P51665;O14818;O00231;Q9UNM6;P25789;P49720;P62987;Q13362;P28072;Q00987;P25788;P28066;P28065;O43242;P0CG47;P17980;O75832;P20618;Q9UL46;P28074;P61289}

27490 Pathogen[ P14075] interacts with 42 human partners: {P78560;P55036;P25788;P28066;P24941;Q06323;O75832;Q9HB75;Q8TAA3;P60900;O00233;Q9UL46;P49720;Q13200;P48556;Q16401;P28070;P49721;O00231;P46527;Q92530;P0CG48;P62979;P28062;P28074;P28065;P25786;O14818;P62987;P28072;Q8NH2;Q14997;P0CG47;P25787;O43715;P20618;Q9NYZ3;Q9UNM6;P61289;P40306;Q99436;P25789}

27491 Pathogen[ P0C206] interacts with 51 human partners: {P61289;Q99436;P28062;Q9UNM6;P0CG48;O75832;P40306;P28065;Q14997;P55036;P25786;P25788;P25787;Q06323;P78560;P49720;O00232;P60900;O43242;A5LHX3;P25789;O43715;Q8NH2;P20618;Q13200;Q8TAA3;P28070;Q99445;Q99460;P62979;P46527;P28066;P38936;O14818;Q9HB75;P0CG47;P28072;Q13362;P28074;P42575;Q92530;P49721;P62987;Q9NYZ3;Q00987;Q9UL46;P24941;O00233;P48556;Q16401;O00231}

27492 Pathogen[ P03363] interacts with 10 human partners: {Q92530;Q13362;P61289;P24941;Q9HB75;Q9NYZ3;P62987;P78560;Q8NH2;O43715}

27493 [Cluster 2500]GO:0045842+P biological\_process [name] positive regulation of mitotic metaphase/anaphase transition [def] "Any process that activates or increases the frequency, rate or extent of the mitotic metaphase to anaphase transition." [GOC

27494 Pathogen[ Q2Q067] interacts with 5 human partners: {Q15398;Q8IY18;P06400;Q14674;Q96MF7}

27495 Pathogen[ P0C214] interacts with 5 human partners: {Q8IY18;Q15398;Q96MF7;P06400;Q14674}

27496 Pathogen[ P03346] interacts with 5 human partners: {Q96MF7;P06400;Q15398;Q8IY18;Q14674}

27497 Pathogen[ Q85601] interacts with 5 human partners: {Q15398;Q8IY18;P06400;Q14674;Q96MF7}

27498 Pathogen[ P14079] interacts with 4 human partners: {Q96MF7;Q14674;Q8IY18;Q15398}

27499 Pathogen[ P03383] interacts with 3 human partners: {Q96MF7;P06400;Q14674}

27500 Pathogen[ P03410] interacts with 5 human partners: {Q15398;P06400;Q14674;Q96MF7;Q8IY18}

27501 Pathogen[ P14075] interacts with 3 human partners: {P06400;Q14674;Q96MF7}

27502 Pathogen[ P0C206] interacts with 5 human partners: {Q96MF7;Q14674;Q8IY18;Q15398;P06400}

27503 Pathogen[ P03363] interacts with 5 human partners: {Q15398;P06400;Q14674;Q8IY18;Q96MF7}

27504 [Cluster 2501]GO:0008543+P biological\_process [name] fibroblast growth factor receptor signaling pathway [def] "The series of molecular signals generated as a consequence of a fibroblast growth factor receptor binding to one of its physiological ligands." [GOC

27505 Pathogen[ Q2Q067] interacts with 23 human partners: {P30153;P31749;Q5T1C6;Q96B36;Q86XR8;P67775;O43524;P62714;Q9BPZ7;Q9BVC4;Q96RU7;P0CG47;P31946;P0CG48;P27986;P62987;P46527;Q6R327;P22681;O15111;Q00987;P22736;P62979}

27506 Pathogen[ P0C214] interacts with 25 human partners: {P22681;Q9BPZ7;O60346;O15111;Q9BVC4;P30153;P62993;Q92934;Q00987;P46527;P62714;Q6R327;P0CG48;Q86XR8;Q96B36;P67775;P62987;Q96RU7;P0CG47;Q5T1C6;P16220;P31946;P62979;P27986;P31749}

27507 Pathogen[ P03346] interacts with 30 human partners: {O60346;O15111;Q86XR8;P16220;P62987;Q9BVC4;Q9BPZ7;P0CG48;P62993;P62714;P6775;Q00987;P30153;Q96B36;P22736;P31749;Q12778;P98177;P62979;Q96RU7;Q9UQ13;P31946;P55211;P0CG47;O43427;P22681;Q6R327;P46527;O43524;P27986}

27508 Pathogen[ Q85601] interacts with 24 human partners: {O60346;P22681;P31946;P31749;P62993;P62714;O15111;Q9BPZ7;P30153;Q96B36;P0CG48;P27986;Q9BVC4;Q86XR8;P16220;P22736;P67775;P62979;Q96RU7;P0CG47;P62987;Q00987;Q5T1C6;P46527}

27509 Pathogen[ P14079] interacts with 22 human partners: {O6R327;P0CG48;O43597;P22736;O60346;P62979;Q9BVC4;P62987;Q00987;O43427;Q92934;P31946;Q5T1C6;Q8WU20;Q96RU7;P62993;P46527;Q96B36;P30153;Q86XR8;Q9BPZ7;P0CG47}

27510 Pathogen[ P03383] interacts with 18 human partners: {P27986;Q86XR8;P16220;P62987;P31946;P31749;Q9BPZ7;O15111;P62714;P30153;P67775;Q96B36;P46527;Q96RU7;P62979;P0CG47;P0CG48;Q5T1C6}

27511 Pathogen[ P03410] interacts with 27 human partners: {P62714;P46527;P27986;P0CG48;O43597;O43427;O15111;Q9BPZ7;P31749;Q92934;Q9BVC4;P62979;Q96B36;Q5T1C6;P22736;P16220;Q6R327;Q96RU7;P30153;O60346;P62987;Q00987;Q8WU20;P67775;P62993;P0CG47;P31946}

27512 Pathogen[ P14075] interacts with 20 human partners: {O15111;O43427;Q5T1C6;P46527;Q9BPZ7;Q96B36;P31749;P0CG48;P62979;Q86XR8;Q6R327;P27986;P62987;P62714;P67775;P30153;Q96RU7;P0CG47;P16220;P31946}

27513 Pathogen[ P0C206] interacts with 29 human partners: {Q86XR8;P0CG48;P31749;P16220;P30153;O43427;Q96B36;P67775;P22736;P27986;P62993;Q96RU7;P31946;Q92934;Q6R327;P22681;Q8WU20;O15111;P62979;Q5T1C6;P46527;Q9BPZ7;P62714;O43597;P0CG47;O60346;P62987;Q00987;Q9BVC4}

27514 Pathogen[ P03363] interacts with 17 human partners: {P22681;Q9BVC4;Q96B36;P62714;O15111;P31946;P16220;O43524;Q13480;P31749;P62987;Q9UQ13;Q86XR8;P30153;P27986;P67775;Q6R327}

27515 [Cluster 2502]GO:0060795+P biological\_process [name] cell fate commitment involved in formation of primary germ layers [def] "The commitment of cells to specific cell fates of the endoderm, ectoderm and mesoderm as a part of gastrulation." [GOC

27516 Pathogen[ Q2Q067] interacts with 1 human partners: {Q01860}

27517 Pathogen[ P0C214] interacts with 1 human partners: {Q01860}

27518 Pathogen[ P03346] interacts with 1 human partners: {Q01860}

27519 Pathogen[ Q85601] interacts with 1 human partners: {Q01860}

27520 Pathogen[ P14079] interacts with 1 human partners: {Q01860}

27521 Pathogen[ P03383] interacts with 1 human partners: {Q01860}

27522 Pathogen[ P03410] interacts with 1 human partners: {Q01860}

27523 Pathogen[ P14075] interacts with 1 human partners: {Q01860}

27524 Pathogen[ P0C206] interacts with 1 human partners: {Q01860}

27525 Pathogen[ P03363] interacts with 1 human partners: {Q01860}

27526 [Cluster 2503]GO:0007034+P biological\_process [name] vacuolar transport [def] "The directed movement of substances into, out of or within a vacuole." [GOC

27527 Pathogen[ Q2Q067] interacts with 3 human partners: {Q4G0F5;O14972;O75436}

27528 Pathogen[ P0C214] interacts with 3 human partners: {O75436;O14972;Q4G0F5}

27529 Pathogen[ P03346] interacts with 3 human partners: {Q4G0F5;O14972;O75436}

27530 Pathogen[ Q85601] interacts with 3 human partners: {O14972;Q4G0F5;O75436}

27531 Pathogen[ P14079] interacts with 3 human partners: {Q4G0F5;O14972;O75436}

27532 Pathogen[ P03383] interacts with 2 human partners: {O14972;O75436}

27533 Pathogen[ P03410] interacts with 3 human partners: {O14972;O75436;Q4G0F5}

27534 Pathogen[ P14075] interacts with 2 human partners: {O75436;O14972}

27535 Pathogen[ P0C206] interacts with 3 human partners: {Q4G0F5;O14972;O75436}

27536 Pathogen[ P03363] interacts with 3 human partners: {O75436;O14972;Q4G0F5}

27537 [Cluster 2504]GO:000079+P biological\_process [name] regulation of cyclin-dependent protein kinase activity [def] "Any process that modulates the frequency, rate or extent of CDK activity." [GOC

27538 Pathogen[ Q2Q067] interacts with 43 human partners: {P30281;Q9BZE4;P42773;O75909;P24385;Q9UII4;Q8WWL7;Q99741;P61024;Q8N1B3;P30279;P32780;P30304;O60563;P22674;P14635;P24522;Q9UHV2;P30307;P51948;P51959;P24864;O95067;P50613;Q16543;P78396;P38936;P20248;O96020;Q96S94;P33552;P42771;O60583;P24863;Q9P287;Q9UJX6;P46527;Q8ND76;P49918;P42772;P51946;Q9UK58;Q96JB5}

27539 Pathogen[ P0C214] interacts with 43 human partners: {Q9UJX6;Q96S94;Q8ND76;P20248;P51946;P24863;Q16543;P30307;P24522;O75909;P50613;P51959;Q8N1B3;P61024;P46527;P14635;P24385;P38936;Q9UK58;P51948;P49918;P78396;P30281;O60583;Q9UII4;O95067;P42771;P22674;Q9UHV2;P32780;P42773;O60563;P24864;P30279;Q8WWL7;Q9P287;Q9BZE4;P30304;P33552;Q96JB5;P42772;Q99741;O96020}

27540 Pathogen[ P03346] interacts with 45 human partners: {P30281;Q8ND76;P78396;P55273;P24385;P30279;Q96S94;Q9BZE4;Q8N1B3;O60563;P0C7Q3;O96020;P24863;P30304;P42772;Q9UII4;P24864;P49918;P61024;P42771;O95067;Q9UJX6;O60583;Q16667;P14635;Q8WWL7;P51946;P33552;P20248;Q96JB5;Q16543;Q9UK58;P42773;O75909;Q9UHV2;P51959;P38936;Q9P287;P46527;Q99741;P51948;P22674;P32780;P30307;P24522}

27541 Pathogen[ Q85601] interacts with 43 human partners: {P51946;P30281;P22674;Q16543;Q9UJX6;P55273;P24385;O60563;O75909;Q9BZE4;Q9UK58;Q8N1B3;Q8ND76;O60583;P42772;P24522;P30304;P51948;P61024;P51959;O96020;P30307;Q96JB5;P14635;P32780;Q9UHV2;P33552;P30279;P20248;P78396;P42771;P50613;P42773;Q96S94;P49918;P24863;P38936;Q9P287;O95067;Q99741;P46527;Q8WWL7;P24864}

27542 Pathogen[ P14079] interacts with 44 human partners: {Q9H85;P51959;Q8N1B3;P30307;Q9UHV2;P51946;Q9BV87;P78396;P24864;Q96S94;O95067;Q8ND76;P49918;P30304;P55273;Q9BZE4;Q15078;P33552;Q99741;P50613;P14635;Q9UK58;P38936;P24863;P24522;O75909;Q8WWL7;Q9UJX6;P32780;P20248;Q96SZ6;O60583;P46527;Q96JB5;P427

73;Q8N7R7;O96020;P0C7Q3;Q16543;Q9P287;P22674;P42771;P61024;P51948}  
27543 Pathogen[ P03383] interacts with 39 human  
partners: {P30307;Q16543;Q9UK58;P61024;Q9UHV2;P51948;Q9UJX6;P22674;Q8N1B3;Q8WWL7;P30304;P24522;Q9BZE4;P24385;Q96JB5;P14635;P78396;P30279;P33552;O60563;P50613;P42772;P51946;P46527;P51959;O75909;O95067;O96020;Q8ND76;P42771;P49918;Q9P287;P24863;P24864;P30281;O60583;P32780;P20248;Q99741}  
27544 Pathogen[ P03410] interacts with 46 human  
partners: {O60583;P42771;Q9UHV2;P46527;P30279;Q16543;P42772;Q8N1B3;O96020;P24522;Q8WWL7;P51946;Q9P287;P55273;P22674;O95067;P50613;Q96JB5;P78396;O60563;P24385;P33552;P14635;P38936;P51959;P30304;O75909;Q96S94;P20248;P30281;P51948;P24863;P61024;P49918;Q9UK58;Q8N7R7;P0C7Q3;P24864;P32780;P42773;Q8ND76;P30307;Q9UJX6;Q9BZE4;Q99741}  
27545 Pathogen[ P14075] interacts with 39 human  
partners: {Q16543;P24863;O95067;P61024;P51959;P14635;Q8N1B3;P30281;P30279;O60563;P50613;P42771;O60583;Q96JB5;Q9UHV2;O96020;P46527;P78396;Q9UJX6;P49918;P22674;Q8WWL7;P20248;P30304;P51946;P32780;Q9BZE4;Q9UK58;P24522;P42772;Q8ND76;Q99741;P24385;Q9P287;O75909;P30307;P33552;P51948;P24864}  
27546 Pathogen[ P0C206] interacts with 45 human  
partners: {P24863;Q8WWL7;P61024;P24522;P30307;Q9UHV2;P30279;P20248;P42771;Q16543;P42772;Q9P287;Q96S94;Q99741;O96020;Q96JB5;Q8N1B3;P0C7Q3;P42773;Q9UK58;P50613;P51959;P55273;P46527;P38936;Q9BZE4;Q9UJX6;P32780;O75909;P33552;P30304;P78396;O95067;Q8ND76;P14635;O60583;O60563;P24864;P22674;Q99640;P51946;P51948;P24385;P30281;P49918}  
27547 Pathogen[ P03363] interacts with 40 human  
partners: {Q96S94;P49918;Q8WWL7;P24864;O60563;P24863;P33552;P30279;P20248;P32780;O75909;P51946;Q16667;Q8ND76;Q9BZE4;P0C7Q3;Q9UJX6;Q8N1B3;P30304;Q9UK58;Q16543;O60583;O95067;O96020;P42772;Q9UHV2;Q99741;P61024;P78396;P24522;P24385;P51959;P42773;P22674;P30307;P30281;Q96JB5;Q9P287;Q9UII4;P42771}  
27548 [Cluster 2505]GO:0009617+P biological\_process [name] response to bacterium [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a stimulus from a bacterium." [GOC]  
27549 Pathogen[ Q2Q067] interacts with 8 human  
partners: {Q04206;O00401;Q14653;Q02556;P19838;P42224;Q03112;O15297}  
27550 Pathogen[ P0C214] interacts with 8 human  
partners: {P19838;Q03112;Q04206;P42224;Q02556;Q14653;O15297;O00401}  
27551 Pathogen[ P03346] interacts with 8 human  
partners: {Q04206;Q02556;Q03112;O15297;P42224;Q14653;P19838;O00401}  
27552 Pathogen[ Q85601] interacts with 8 human  
partners: {O00401;Q02556;Q03112;Q14653;Q04206;O15297;P42224;P19838}  
27553 Pathogen[ P14079] interacts with 9 human  
partners: {P09327;Q14653;O15297;Q08722;P60022;Q8NEV9;P42224;Q02556;O00401}  
27554 Pathogen[ P03383] interacts with 7 human  
partners: {Q14653;O15297;O00401;Q03112;Q04206;Q02556;P19838}  
27555 Pathogen[ P03410] interacts with 10 human  
partners: {Q04206;P19838;Q03112;Q14653;O00401;P60022;Q02556;O15297;Q08722;Q8NEV9}  
27556 Pathogen[ P14075] interacts with 7 human  
partners: {O15297;Q04206;Q02556;O00401;Q14653;Q03112;P19838}  
27557 Pathogen[ P0C206] interacts with 8 human  
partners: {Q02556;P19838;Q03112;Q04206;O00401;O15297;P42224;Q14653}  
27558 Pathogen[ P03363] interacts with 7 human  
partners: {Q14653;Q04206;Q02556;Q03112;P19838;O00401;O15297}  
27559 [Cluster 2506]GO:0002244+P biological\_process [name] hemopoietic progenitor cell differentiation [def] "The process in which precursor cell type acquires the specialized features of a hemopoietic progenitor cell, a class of cell types including myeloid progenitor cells and lymphoid progenitor cells." [GOC]  
27560 Pathogen[ Q2Q067] interacts with 2 human partners: {Q9P243;Q00534}  
27561 Pathogen[ P0C214] interacts with 3 human partners: {O95633;Q00534;Q9P243}  
27562 Pathogen[ P03346] interacts with 3 human partners: {Q9P243;Q00534;O95633}  
27563 Pathogen[ Q85601] interacts with 2 human partners: {Q9P243;Q00534}  
27564 Pathogen[ P14079] interacts with 1 human partners: {Q9P243}  
27565 Pathogen[ P03383] interacts with 1 human partners: {Q00534}  
27566 Pathogen[ P03410] interacts with 2 human partners: {Q00534;Q9P243}  
27567 Pathogen[ P14075] interacts with 1 human partners: {Q00534}  
27568 Pathogen[ P0C206] interacts with 3 human partners: {O95633;Q9P243;Q00534}  
27569 Pathogen[ P03363] interacts with 3 human partners: {Q9P243;P19883;Q00534}  
27570 [Cluster 2507]GO:0001682+P biological\_process [name] tRNA 5'-leader removal [def] "Generation of the mature 5'-end of the tRNA, usually via an endonucleolytic cleavage by RNase P." [PMID]  
27571 Pathogen[ Q2Q067] interacts with 1 human partners: {Q99575}  
27572 Pathogen[ P0C214] interacts with 1 human partners: {Q99575}  
27573 Pathogen[ P03346] interacts with 1 human partners: {Q99575}  
27574 Pathogen[ Q85601] interacts with 1 human partners: {Q99575}  
27575 Pathogen[ P14079] interacts with 1 human partners: {Q99575}  
27576 Pathogen[ P03383] interacts with 1 human partners: {Q99575}  
27577 Pathogen[ P03410] interacts with 1 human partners: {Q99575}  
27578 Pathogen[ P14075] interacts with 1 human partners: {Q99575}  
27579 Pathogen[ P0C206] interacts with 1 human partners: {Q99575}

27580 Pathogen[ P03363] interacts with 1 human partners:{Q99575}  
27581 [Cluster 2508]GO:0032094+P biological\_process [name] response to food [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a food stimulus\_ food is anything which, when taken into the body, serves to nourish or build up the tissues or to supply body heat." [GOC  
27582 Pathogen[ Q2Q067] interacts with 2 human partners:{P31749;P36956}  
27583 Pathogen[ P0C214] interacts with 1 human partners:{P31749}  
27584 Pathogen[ P03346] interacts with 2 human partners:{P36956;P31749}  
27585 Pathogen[ Q85601] interacts with 2 human partners:{P31749;P36956}  
27586 Pathogen[ P14079] interacts with 1 human partners:{P36956}  
27587 Pathogen[ P03383] interacts with 1 human partners:{P31749}  
27588 Pathogen[ P03410] interacts with 2 human partners:{P36956;P31749}  
27589 Pathogen[ P14075] interacts with 1 human partners:{P31749}  
27590 Pathogen[ P0C206] interacts with 2 human partners:{P31749;P36956}  
27591 Pathogen[ P03363] interacts with 1 human partners:{P31749}  
27592 [Cluster 2509]GO:0035335+P biological\_process [name] peptidyl-tyrosine dephosphorylation [def] "The removal of phosphoric residues from peptidyl-O-phospho-tyrosine to form peptidyl-tyrosine." [GOC  
27593 Pathogen[ Q2Q067] interacts with 9 human partners:{Q99502;O00167;Q9UNH5;P30304;Q9BV47;Q99504;P30307;P30305;Q16829}  
27594 Pathogen[ P0C214] interacts with 12 human partners:{P30307;Q9BV47;O00167;Q95278;Q99504;P30305;Q16829;Q9UNH5;Q3ZCQ8;Q13615;P30304;Q99502}  
27595 Pathogen[ P03346] interacts with 19 human partners:{P43378;Q95677;O00167;Q8TF42;P30304;Q9H3S7;Q99502;P30305;Q9BV47;Q16667;P17706;Q16829;Q3ZCQ8;Q95278;Q9Y2R2;Q99504;P24666;Q9UNH5;P30307}  
27596 Pathogen[ Q85601] interacts with 12 human partners:{Q95677;Q16829;Q99504;P30304;Q95278;Q9BV47;Q9UNH5;P30305;P30307;Q99502;Q3ZCQ8;O00167}  
27597 Pathogen[ P14079] interacts with 10 human partners:{Q3ZCQ8;Q99502;P30307;Q16829;P30304;Q9BV47;Q99504;P30305;O00167;Q9UNH5}  
27598 Pathogen[ P03383] interacts with 5 human partners:{P30307;Q99504;O00167;P30304;Q9UNH5}  
27599 Pathogen[ P03410] interacts with 11 human partners:{Q99502;Q9UNH5;Q16829;Q3ZCQ8;P30304;Q99504;P24666;O00167;P30305;Q9BV47;P30307}  
27600 Pathogen[ P14075] interacts with 6 human partners:{Q99504;O00167;P30304;Q99502;Q9UNH5;P30307}  
27601 Pathogen[ P0C206] interacts with 16 human partners:{O00167;Q99504;Q9BV47;P30307;Q13615;P30305;Q9Y2R2;Q16829;Q3ZCQ8;P24666;Q9UNH5;Q95278;P30304;Q99502;Q95677;P17706}  
27602 Pathogen[ P03363] interacts with 16 human partners:{P17706;Q9H3S7;Q8TF42;Q9UNH5;Q9Y2R2;P43378;Q16667;Q3ZCQ8;P30304;Q16829;Q99504;Q12923;O00167;Q9BV47;P30307;P24666}  
27603 [Cluster 2510]GO:0006271+P biological\_process [name] DNA strand elongation involved in DNA replication [def] "The process in which a DNA strand is synthesized from template DNA during replication by the action of polymerases, which add nucleotides to the 3' end of the nascent DNA strand." [ISBN  
27604 Pathogen[ Q2Q067] interacts with 15 human partners:{Q15054;P27694;P35244;P49005;Q9Y248;P12004;Q14181;Q14691;P15927;Q9HCU8;O75419;P39748;P25205;P35251;Q9BRT9}  
27605 Pathogen[ P0C214] interacts with 15 human partners:{P35251;P49005;Q9HCU8;Q9Y248;P25205;Q14566;Q14691;P15927;P35244;O75419;P39748;Q15054;P27694;Q14181;Q9BRT9}  
27606 Pathogen[ P03346] interacts with 21 human partners:{P12004;Q9HCU8;P27694;Q14691;P35244;Q9BRT9;P35250;P49005;Q14566;P25205;Q9Y248;P33992;P15927;P35249;Q14181;P33991;P35251;P39748;O75419;P40937;Q15054}  
27607 Pathogen[ Q85601] interacts with 17 human partners:{P35244;Q9Y248;P49005;Q15054;P27694;Q14566;Q9BRT9;P25205;P15927;P35251;Q14691;Q14181;Q9HCU8;P12004;P33992;P39748;O75419}  
27608 Pathogen[ P14079] interacts with 20 human partners:{Q9BRT9;O75419;Q14566;P40937;P49005;Q14691;Q9HCU8;Q15054;P35250;P35251;Q9Y248;P49642;Q14181;P33992;P15927;P27694;P12004;P35244;P25205;P39748}  
27609 Pathogen[ P03383] interacts with 13 human partners:{Q9HCU8;Q14181;P27694;P25205;P49005;Q9Y248;P15927;P35244;Q9BRT9;Q15054;O75419;Q14691;P35251}  
27610 Pathogen[ P03410] interacts with 20 human partners:{P35244;P25205;Q14181;O75419;P39748;Q9BRT9;P33992;P35251;Q15054;Q9Y248;P49005;P27694;P15927;Q14691;P35250;P40937;Q14566;P12004;P49642;Q9HCU8}  
27611 Pathogen[ P14075] interacts with 13 human partners:{O75419;P49005;P15927;Q14691;Q9Y248;P35244;P25205;P35251;Q15054;Q9BRT9;P27694;Q9HCU8;Q14181}  
27612 Pathogen[ P0C206] interacts with 18 human partners:{P35251;Q9Y248;Q9HCU8;O75419;P25205;P49005;P49642;Q9BRT9;Q15054;Q14181;Q14691;P27694;P15927;P39748;P35244;Q14566;P33992;P12004}

27613 Pathogen[ P03363] interacts with 14 human partners: {Q14691;P27694;P25205;P35251;P49005;Q14181;P35244;P15927;P33992;Q9HCU8;Q15054;Q9Y248;Q9BRT9;O75419}

27614 [Cluster 2511]GO:0045750+P biological\_process [name] positive regulation of S phase of mitotic cell cycle [def] "Any process that activates or increases the frequency, rate or extent of S phase of mitotic cell cycle activity." [GOC

27615 Pathogen[ Q2Q067] interacts with 4 human partners: {Q9H4X1;O43541;Q13620;Q13619}

27616 Pathogen[ POC214] interacts with 4 human partners: {Q13619;Q9H4X1;Q13620;O43541}

27617 Pathogen[ P03346] interacts with 4 human partners: {Q9H4X1;Q13620;O43541;Q13619}

27618 Pathogen[ Q85601] interacts with 4 human partners: {Q9H4X1;O43541;Q13620;Q13619}

27619 Pathogen[ P14079] interacts with 3 human partners: {Q13620;O43541;Q13619}

27620 Pathogen[ P03383] interacts with 3 human partners: {Q9H4X1;O43541;Q13620}

27621 Pathogen[ P03410] interacts with 4 human partners: {Q9H4X1;Q13620;O43541;Q13619}

27622 Pathogen[ P14075] interacts with 3 human partners: {Q9H4X1;O43541;Q13620}

27623 Pathogen[ POC206] interacts with 4 human partners: {O43541;Q9H4X1;Q13620;Q13619}

27624 Pathogen[ P03363] interacts with 4 human partners: {Q9H4X1;Q13619;O43541;Q13620}

27625 [Cluster 2512]GO:0000395+P biological\_process [name] nuclear mRNA 5'-splice site recognition [def] "Recognition of the intron 5'-splice site by components of the assembling spliceosome." [GOC

27626 Pathogen[ Q2Q067] interacts with 2 human partners: {Q07955;O75475}

27627 Pathogen[ POC214] interacts with 2 human partners: {Q07955;O75475}

27628 Pathogen[ P03346] interacts with 2 human partners: {O75475;Q07955}

27629 Pathogen[ Q85601] interacts with 2 human partners: {Q07955;O75475}

27630 Pathogen[ P14079] interacts with 2 human partners: {O75475;Q07955}

27631 Pathogen[ P03383] interacts with 2 human partners: {Q07955;O75475}

27632 Pathogen[ P03410] interacts with 2 human partners: {Q07955;O75475}

27633 Pathogen[ P14075] interacts with 2 human partners: {O75475;Q07955}

27634 Pathogen[ POC206] interacts with 2 human partners: {Q07955;O75475}

27635 Pathogen[ P03363] interacts with 2 human partners: {O75475;Q07955}

27636 [Cluster 2513]GO:0000165+P biological\_process [name] MAPKKK cascade [def] "A series of protein phosphorylation events catalyzed by MAP kinases, by which a signal is passed on to downstream components within a cell. The MAPKKK cascade begins with phosphorylation of a MAPKK by a MAPKKK, and ends with phosphorylation of a downstream target by MAPK." [GOC

27637 Pathogen[ Q2Q067] interacts with 8 human partners: {Q12837;P01106;O00255;Q13233;P31946;O43318;Q15797;Q02078}

27638 Pathogen[ POC214] interacts with 8 human partners: {O43318;Q02078;Q13233;Q12837;Q15797;P31946;P01106;O00255}

27639 Pathogen[ P03346] interacts with 9 human partners: {Q02078;Q15797;Q12837;P01106;O00255;Q13233;P31946;P45985;O43318}

27640 Pathogen[ Q85601] interacts with 8 human partners: {P01106;Q02078;P31946;Q15797;O00255;Q13233;O43318;Q12837}

27641 Pathogen[ P14079] interacts with 9 human partners: {Q02078;Q06413;Q15797;Q12837;P31946;P45985;P01106;Q13164;O00255}

27642 Pathogen[ P03383] interacts with 8 human partners: {Q13233;P31946;P01106;Q15797;O43318;Q12837;O00255;Q02078}

27643 Pathogen[ P03410] interacts with 9 human partners: {P01106;Q13233;O43318;P45985;Q15797;Q02078;Q12837;O00255;P31946}

27644 Pathogen[ P14075] interacts with 7 human partners: {Q12837;P01106;O00255;O43318;Q02078;P31946;Q13233}

27645 Pathogen[ POC206] interacts with 9 human partners: {Q02078;O00255;O43318;Q13233;P31946;Q12837;P45985;Q15797;P01106}

27646 Pathogen[ P03363] interacts with 8 human partners: {Q7Z569;P31946;O43318;Q15797;P01106;Q12837;Q13233;Q02078}

27647 [Cluster 2514]GO:0003221+P biological\_process [name] right ventricular cardiac muscle tissue morphogenesis [def] "The process in which the anatomical structures of the right cardiac ventricle muscle are generated and organized." [GOC

27648 Pathogen[ Q2Q067] interacts with 1 human partners: {Q8WW38}

27649 Pathogen[ POC214] interacts with 1 human partners: {Q8WW38}

27650 Pathogen[ P03346] interacts with 1 human partners: {Q8WW38}

27651 Pathogen[ Q85601] interacts with 1 human partners: {Q8WW38}

27652 Pathogen[ P14079] interacts with 1 human partners: {Q8WW38}

27653 Pathogen[ P03383] interacts with 1 human partners: {Q8WW38}

27654 Pathogen[ P03410] interacts with 1 human partners: {Q8WW38}

27655 Pathogen[ P14075] interacts with 1 human partners: {Q8WW38}

27656 Pathogen[ POC206] interacts with 1 human partners: {Q8WW38}

27657 Pathogen[ P03363] interacts with 1 human partners: {Q8WW38}

27658 [Cluster 2515]GO:0006259+P biological\_process [name] DNA metabolic process [def] "Any cellular metabolic process involving deoxyribonucleic acid. This is one of the two main types of nucleic acid, consisting of a long, unbranched macromolecule formed from one, or more commonly, two, strands of linked deoxyribonucleotides." [ISBN

27659 Pathogen[ Q2Q067] interacts with 21 human partners: {Q92889;P49959;O95997;P62826;Q92547;O43542;Q06609;P11388;O43502;Q9NZH4;A4GX A9;Q9NZH5;P09874;P54098;P04053;Q96T76;P52292;Q96NY9;P46013;Q96AY2;Q8IYD8}

27660 Pathogen[ POC214] interacts with 22 human partners: {Q06609;P49959;Q92889;P54098;Q96NY9;O43542;Q96AY2;Q9NZH5;O43502;P11388;A4GX

27661 A9;P62826;P04053;Q9NZH4;P46013;O95997;P52292;Q92614;Q92547;Q8IYD8;Q96T76;P09874}  
Pathogen[ P03346] interacts with 26 human  
partners:{Q9NZH4;Q06609;P54098;P11388;O43502;Q92614;Q96AY2;O95997;P62826;Q96NY9;Q13609;Q9NZH5;O15315;O43542;O75771;P49959;P09874;Q92889;Q92547;P04053;P52292;Q8IYD8;P46013;O43543;A4GXA9;Q96T76}

27662 Pathogen[ Q85601] interacts with 23 human  
partners:{Q96T76;P09874;Q92614;O43502;O15315;Q9NZH4;Q8IYD8;Q92547;A4GXA9;P62826;Q96AY2;P49959;O43542;Q96NY9;Q92889;P54098;Q9NZH5;P11388;P04053;P52292;P46013;Q06609;O95997}

27663 Pathogen[ P14079] interacts with 27 human  
partners:{P11388;O15315;P09874;Q13609;Q96NY9;Q92614;Q8IYD8;P49184;O00115;Q96AY2;A4GXA9;Q92889;O43502;O95997;O43543;Q92547;Q8WZ79;P04053;Q9NZH4;P54098;P62826;Q06609;P52292;Q96T76;Q9NZH5;O43542;P46013}

27664 Pathogen[ P03383] interacts with 15 human  
partners:{Q96T76;Q06609;A4GXA9;P46013;P62826;Q9NZH4;P52292;P54098;Q9NZH5;Q96AY2;P09874;O95997;O43542;Q92547;Q96NY9}

27665 Pathogen[ P03410] interacts with 27 human  
partners:{P49959;Q9NZH5;Q96T76;P49184;Q96AY2;Q8IYD8;A4GXA9;O15315;P46013;Q92614;Q13609;O43542;P04053;Q92889;O95997;P62826;O43502;Q96NY9;P09874;Q92547;P11388;O43543;O00115;Q9NZH4;P52292;P54098;Q06609}

27666 Pathogen[ P14075] interacts with 15 human  
partners:{P52292;P54098;O95997;Q9NZH5;Q96NY9;P62826;O43542;Q96AY2;Q92547;P46013;Q9NZH4;Q06609;P09874;Q96T76;A4GXA9}

27667 Pathogen[ P0C206] interacts with 26 human  
partners:{O43542;O43502;Q9NZH5;Q96AY2;P49959;P09874;Q8IYD8;O95997;P46013;P54098;P62826;O94762;A4GXA9;Q96NY9;P04053;O15315;Q92889;Q13609;Q92614;Q9NZH4;Q96T76;O43543;Q06609;P11388;Q92547;P52292}

27668 Pathogen[ P03363] interacts with 24 human  
partners:{Q92547;O94762;Q9NZH5;Q92889;P54098;Q13609;P04053;Q96T76;Q8IYD8;Q96AY2;O43542;Q92614;O75771;Q06609;O95997;P09874;P46013;A4GXA9;Q96NY9;P62826;P52292;Q9NZH4;O43502;O15315}

27669 [Cluster 2516]GO:0014003+P biological\_process [name] oligodendrocyte development [def] "The process aimed at the progression of an oligodendrocyte over time, from initial commitment of the cell to a specific fate, to the fully functional differentiated cell. An oligodendrocyte is a type of glial cell involved in myelinating the axons in the central nervous system." [GOC

27670 Pathogen[ Q2Q067] interacts with 9 human  
partners:{P49770;Q9UI10;Q969S8;Q96DB2;Q14232;P06396;Q9NR50;Q13144;Q96MN9}

27671 Pathogen[ P0C214] interacts with 9 human  
partners:{Q9UI10;P49770;Q969S8;Q96DB2;Q96MN9;Q14232;P06396;Q9NR50;Q13144}

27672 Pathogen[ P03346] interacts with 10 human  
partners:{Q969S8;Q96DB2;Q96MN9;Q14232;O95096;P49770;P06396;Q13144;Q9NR50;Q9UI10}

27673 Pathogen[ Q85601] interacts with 9 human  
partners:{Q969S8;Q96DB2;P06396;Q9NR50;Q13144;P49770;Q96MN9;Q14232;Q9UI10}

27674 Pathogen[ P14079] interacts with 8 human  
partners:{Q9UI10;Q96DB2;Q969S8;Q96MN9;Q13144;Q9NR50;Q14232;Q9Y2G1}

27675 Pathogen[ P03383] interacts with 8 human  
partners:{Q9UI10;Q13144;Q9NR50;Q96MN9;P49770;Q14232;Q969S8;P06396}

27676 Pathogen[ P03410] interacts with 10 human  
partners:{Q9NR50;P06396;Q14232;P49770;Q96MN9;Q969S8;Q9Y2G1;Q9UI10;Q13144;Q96DB2}

27677 Pathogen[ P14075] interacts with 8 human  
partners:{Q969S8;Q9UI10;Q96MN9;Q14232;P49770;P06396;Q9NR50;Q13144}

27678 Pathogen[ P0C206] interacts with 9 human  
partners:{P06396;Q96DB2;Q14232;Q9NR50;Q13144;P49770;Q96MN9;Q9UI10;Q969S8}

27679 Pathogen[ P03363] interacts with 7 human  
partners:{Q9UI10;Q969S8;P06396;Q9NR50;P49770;Q96MN9;Q13144}

27680 [Cluster 2517]GO:0032388+P biological\_process [name] positive regulation of intracellular transport [def] "Any process that activates or increases the frequency, rate or extent of the directed movement of substances within cells." [GOC

27681 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8IUR6}

27682 Pathogen[ P0C214] interacts with 1 human partners:{Q8IUR6}

27683 Pathogen[ P03346] interacts with 1 human partners:{Q8IUR6}

27684 Pathogen[ Q85601] interacts with 1 human partners:{Q8IUR6}

27685 Pathogen[ P14079] interacts with 1 human partners:{Q8IUR6}

27686 Pathogen[ P03383] interacts with 1 human partners:{Q8IUR6}

27687 Pathogen[ P03410] interacts with 2 human partners:{Q15049;Q8IUR6}

27688 Pathogen[ P14075] interacts with 1 human partners:{Q8IUR6}

27689 Pathogen[ P0C206] interacts with 1 human partners:{Q8IUR6}

27690 Pathogen[ P03363] interacts with 1 human partners:{Q8IUR6}

27691 [Cluster 2518]GO:0048368+P biological\_process [name] lateral mesoderm development [def] "The process whose specific outcome is the progression of the lateral mesoderm over time, from its formation to the mature structure." [GOC

27692 Pathogen[ Q2Q067] interacts with 2 human partners:{P46937;Q15562}

27693 Pathogen[ P0C214] interacts with 2 human partners:{P46937;Q15562}

27694 Pathogen[ P03346] interacts with 2 human partners:{Q15562;P46937}

27695 Pathogen[ Q85601] interacts with 2 human partners:{Q15562;P46937}

27696 Pathogen[ P14079] interacts with 2 human partners:{P46937;Q15562}  
27697 Pathogen[ P03383] interacts with 2 human partners:{Q15562;P46937}  
27698 Pathogen[ P03410] interacts with 2 human partners:{P46937;Q15562}  
27699 Pathogen[ P14075] interacts with 2 human partners:{Q15562;P46937}  
27700 Pathogen[ P0C206] interacts with 2 human partners:{P46937;Q15562}  
27701 Pathogen[ P03363] interacts with 2 human partners:{Q15562;P46937}  
27702 [Cluster 2519]GO:0030518+P biological\_process [name] intracellular steroid hormone receptor signaling pathway [def] "A series of molecular signals generated as a consequence of an intracellular steroid hormone receptor binding to one of its physiological ligands." [GOC  
27703 Pathogen[ Q2Q067] interacts with 11 human partners:{Q96HR3;Q9NPJ6;Q93074;O75448;O60244;Q9UHV7;Q9NVC6;Q9Y2X0;Q9P1Z2;Q9Y2W1;Q86X55}  
27704 Pathogen[ P0C214] interacts with 11 human partners:{Q9Y2X0;Q93074;Q96HR3;Q9NVC6;O60244;Q9UHV7;O75448;Q86X55;Q9P1Z2;Q9Y2W1;Q9NPJ6}  
27705 Pathogen[ P03346] interacts with 12 human partners:{Q9NPJ6;Q96HR3;Q93074;O60244;O75448;Q9P1Z2;Q9NVC6;Q86X55;Q9Y2X0;Q9Y2W1;Q9UHV7;Q8NHV9}  
27706 Pathogen[ Q85601] interacts with 11 human partners:{Q9Y2X0;Q86X55;Q9UHV7;O75448;Q9P1Z2;Q9Y2W1;O60244;Q96HR3;Q93074;Q9NPJ6;Q9NVC6}  
27707 Pathogen[ P14079] interacts with 10 human partners:{O60244;Q9Y2X0;Q96HR3;Q9NVC6;O75448;Q9UHV7;Q9NPJ6;Q93074;Q9P1Z2;Q9Y2W1}  
27708 Pathogen[ P03383] interacts with 11 human partners:{O60244;Q86X55;Q9NPJ6;Q93074;Q96HR3;O75448;Q9UHV7;Q9NVC6;Q9Y2W1;Q9Y2X0;Q9P1Z2}  
27709 Pathogen[ P03410] interacts with 11 human partners:{Q9Y2W1;Q9NVC6;Q9NPJ6;Q86X55;Q9P1Z2;Q96HR3;O60244;Q9UHV7;Q9Y2X0;Q93074;O75448}  
27710 Pathogen[ P14075] interacts with 11 human partners:{Q9NPJ6;Q96HR3;O75448;Q93074;Q9UHV7;Q86X55;O60244;Q9P1Z2;Q9NVC6;Q9Y2W1;Q9Y2X0}  
27711 Pathogen[ P0C206] interacts with 11 human partners:{Q96HR3;Q86X55;Q9P1Z2;Q9UHV7;Q9NPJ6;Q9Y2W1;O60244;Q9NVC6;O75448;Q9Y2X0;Q93074}  
27712 Pathogen[ P03363] interacts with 10 human partners:{Q96HR3;Q9P1Z2;Q9NVC6;Q9UHV7;Q93074;O75448;Q9NPJ6;O60244;Q8NHV9;Q86X55}  
27713 [Cluster 2520]GO:0002224+P biological\_process [name] toll-like receptor signaling pathway [def] "Any series of molecular signals generated as a consequence of binding to a toll-like receptor. Toll-like receptors directly bind pattern motifs from a variety of microbial sources to initiate innate immune response." [GO\_REF  
27714 Pathogen[ Q2Q067] interacts with 31 human partners:{P01100;Q15653;Q04206;Q9NYJ8;O95999;Q8N5C8;O75582;Q9Y6K9;Q13114;Q13233;P61088;Q96FA3;P19419;P19838;P15336;P25963;P0CG47;O14920;P45984;Q00653;P0CG48;O43318;P62987;Q13404;Q9HAT8;O15111;Q15759;Q16829;Q02078;Q15750;P62979}  
27715 Pathogen[ P0C214] interacts with 34 human partners:{Q00653;O15111;Q9Y6K9;P19838;P15336;P01100;Q96FA3;P19419;Q04206;Q9HAT8;Q13404;Q15653;O43318;Q02078;Q8N5C8;Q13233;P0CG48;O95999;P25963;Q16829;O75582;P62987;Q15750;P05412;Q13114;Q15759;P0CG47;P45984;P16220;P62979;O14920;Q9NYJ8;P61088;P18846}  
27716 Pathogen[ P03346] interacts with 35 human partners:{Q9Y6K9;P05412;P45984;Q02078;O15111;P16220;P15336;P62987;P25963;Q15653;P19419;P0CG48;Q04206;Q13114;Q96FA3;Q13404;O95999;Q8N5C8;P61088;Q9NYJ8;Q9HAT8;Q13233;O75582;Q15750;Q16829;P62979;Q15759;P0CG47;P45985;P19838;O14920;O43318;P01100;P18846;Q00653}  
27717 Pathogen[ Q85601] interacts with 34 human partners:{Q02078;Q15750;Q9NYJ8;O15111;P19419;Q9HAT8;Q16829;P18846;P0CG48;Q15653;Q13114;Q96FA3;Q13404;Q8N5C8;P01100;Q9Y6K9;P16220;O14920;Q04206;P05412;O75582;P62979;Q15759;P0CG47;P45984;Q13233;P62987;Q00653;O95999;P15336;O43318;P61088;P19838;P25963}  
27718 Pathogen[ P14079] interacts with 33 human partners:{Q9HAT8;Q8N5C8;Q02078;P0CG48;Q06413;O43187;P53779;O95999;P52564;O75582;Q16829;Q13404;Q15750;P62979;P62987;Q96FA3;P45984;P45983;Q16644;Q15759;Q9Y6K9;P45985;P15336;Q9Y6Y9;Q13164;P05412;P0CG47;Q9Y239;P01100;Q99836;P19419;Q13114;Q15653}  
27719 Pathogen[ P03383] interacts with 33 human partners:{O75582;P16220;Q9Y6K9;P62987;Q13233;Q00653;O14920;O15111;P19419;P18846;Q15653;O43318;Q8N5C8;P61088;Q13404;Q15759;P25963;O95999;P01100;P62979;P0CG47;Q96FA3;Q04206;P45984;P0CG48;P15336;Q9NYJ8;P19838;Q13114;Q02078;Q9HAT8;Q15750;P05412}  
27720 Pathogen[ P03410] interacts with 38 human partners:{Q04206;P19838;P0CG48;O14920;Q9Y239;P19419;O15111;Q15750;Q96FA3;O75582;O43187;Q15653;P61088;Q13233;P62979;P01100;P18846;O43318;Q16829;O95999;P45985;Q9NYJ8;Q8N5C8;P16220;Q9HAT8;P05412;Q9Y6Y9;P45984;P62987;P53779;Q02078;Q00653;Q13404;Q9Y6K9;P25963;P15336;P0CG47;Q13114}  
27721 Pathogen[ P14075] interacts with 33 human partners:{O15111;Q04206;Q15750;P05412;Q15759;O75582;P61088;P19419;P15336;Q15653;P25963;Q8N5C8;O14920;P0CG48;P62979;O43318;Q9HAT8;Q96FA3;P62987;Q13114;O95999;Q02078;P01100;P0CG47;Q13404;P19838;Q00653;P16220;Q9Y6K9;Q13233;P18846;P45984;Q9NYJ8}

27722 Pathogen[ P0C206] interacts with 35 human partners: {P0C248;O14920;Q9Y6K9;Q13114;Q02078;P16220;Q8N5C8;O75582;P45984;O95999;P05412;P25963;P19419;Q9HAT8;O43318;P15336;Q15653;P18846;Q16829;Q13233;P61088;P19838;P01100;Q04206;O15111;P62979;Q9NYJ8;P45985;P0CG47;Q96FA3;Q00653;Q15750;P62987;Q13404;Q15759}

27723 Pathogen[ P03363] interacts with 27 human partners: {O14920;Q04206;P25963;O15111;Q9NYJ8;P16220;Q9Y6K9;P19419;O43318;Q15750;P61088;P15336;Q15653;Q16829;Q00653;Q96FA3;P18846;P62987;P19838;Q13114;P05412;Q13404;Q9HAT8;Q8N5C8;Q13233;P01100;Q02078}

27724 [Cluster 2521]GO:0019896+P biological\_process [name] axon transport of mitochondrion [def] "The directed movement of mitochondria along microtubules in nerve cell axons." [GOC]

27725 Pathogen[ Q2Q067] interacts with 1 human partners: {P07196}

27726 Pathogen[ P0C214] interacts with 2 human partners: {Q8TDB4;P07196}

27727 Pathogen[ P03346] interacts with 2 human partners: {P07196;Q8TDB4}

27728 Pathogen[ Q85601] interacts with 2 human partners: {P07196;Q8TDB4}

27729 Pathogen[ P14079] interacts with 2 human partners: {P07196;Q8TDB4}

27730 Pathogen[ P03383] interacts with 2 human partners: {Q8TDB4;P07196}

27731 Pathogen[ P03410] interacts with 2 human partners: {P07196;Q8TDB4}

27732 Pathogen[ P14075] interacts with 2 human partners: {Q8TDB4;P07196}

27733 Pathogen[ P0C206] interacts with 2 human partners: {P07196;Q8TDB4}

27734 Pathogen[ P03363] interacts with 1 human partners: {P07196}

27735 [Cluster 2522]GO:0071539+P biological\_process [name] protein localization to centrosome [def] "A process in which a protein is transported to, or maintained at, the centrosome." [GOC]

27736 Pathogen[ Q2Q067] interacts with 2 human partners: {Q86VS8;Q15154}

27737 Pathogen[ P0C214] interacts with 2 human partners: {Q15154;Q86VS8}

27738 Pathogen[ P03346] interacts with 2 human partners: {Q86VS8;Q15154}

27739 Pathogen[ Q85601] interacts with 2 human partners: {Q15154;Q86VS8}

27740 Pathogen[ P14079] interacts with 2 human partners: {Q86VS8;Q15154}

27741 Pathogen[ P03383] interacts with 2 human partners: {Q15154;Q86VS8}

27742 Pathogen[ P03410] interacts with 2 human partners: {Q15154;Q86VS8}

27743 Pathogen[ P14075] interacts with 2 human partners: {Q15154;Q86VS8}

27744 Pathogen[ P0C206] interacts with 2 human partners: {Q86VS8;Q15154}

27745 Pathogen[ P03363] interacts with 2 human partners: {Q86VS8;Q15154}

27746 [Cluster 2523]GO:0007182+P biological\_process [name] common-partner SMAD protein phosphorylation [def] "The process of introducing a phosphate group on to a common-partner SMAD protein. A common partner SMAD protein binds to pathway-restricted SMAD proteins forming a complex that translocates to the nucleus." [GOC]

27747 Pathogen[ Q2Q067] interacts with 2 human partners: {Q01082;Q15796}

27748 Pathogen[ P0C214] interacts with 2 human partners: {Q01082;Q15796}

27749 Pathogen[ P03346] interacts with 2 human partners: {Q15796;Q01082}

27750 Pathogen[ Q85601] interacts with 2 human partners: {Q01082;Q15796}

27751 Pathogen[ P14079] interacts with 1 human partners: {Q01082}

27752 Pathogen[ P03383] interacts with 1 human partners: {Q15796}

27753 Pathogen[ P03410] interacts with 2 human partners: {Q01082;Q15796}

27754 Pathogen[ P14075] interacts with 1 human partners: {Q15796}

27755 Pathogen[ P0C206] interacts with 2 human partners: {Q01082;Q15796}

27756 Pathogen[ P03363] interacts with 2 human partners: {Q01082;Q15796}

27757 [Cluster 2524]GO:0051572+P biological\_process [name] negative regulation of histone H3-K4 methylation [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the covalent addition of a methyl group to the lysine at position 4 of histone H3." [GOC]

27758 Pathogen[ Q2Q067] interacts with 2 human partners: {Q5VTD9;Q6W2J9}

27759 Pathogen[ P0C214] interacts with 2 human partners: {Q6W2J9;Q5VTD9}

27760 Pathogen[ P03346] interacts with 2 human partners: {Q5VTD9;Q6W2J9}

27761 Pathogen[ Q85601] interacts with 2 human partners: {Q5VTD9;Q6W2J9}

27762 Pathogen[ P14079] interacts with 2 human partners: {Q6W2J9;Q5VTD9}

27763 Pathogen[ P03383] interacts with 1 human partners: {Q6W2J9}

27764 Pathogen[ P03410] interacts with 2 human partners: {Q6W2J9;Q5VTD9}

27765 Pathogen[ P14075] interacts with 1 human partners: {Q6W2J9}

27766 Pathogen[ P0C206] interacts with 2 human partners: {Q6W2J9;Q5VTD9}

27767 Pathogen[ P03363] interacts with 2 human partners: {Q5VTD9;Q6W2J9}

27768 [Cluster 2525]GO:0007169+P biological\_process [name] transmembrane receptor protein tyrosine kinase signaling pathway [def] "The series of molecular signals generated as a consequence of a transmembrane receptor tyrosine kinase binding to its physiological ligand." [GOC]

27769 Pathogen[ Q2Q067] interacts with 5 human partners: {Q8IZP0;Q92529;Q13094;Q9ULZ2;O15446}

27770 Pathogen[ P0C214] interacts with 8 human partners: {Q8WV28;Q8IZP0;O15446;Q92529;Q13094;Q9UQC2;Q9ULZ2;Q99704}

27771 Pathogen[ P03346] interacts with 10 human partners: {Q969H4;Q8IZP0;Q9ULZ2;Q9UQC2;Q13094;Q99704;Q8N157;O15446;Q8WV28;Q92529}

27772 Pathogen[ Q85601] interacts with 6 human partners: {Q9ULZ2;Q9UQC2;Q92529;O15446;Q8IZP0;Q13094}

27773 Pathogen[ P14079] interacts with 12 human



partners:{Q99704;O15446;Q8N157;Q13094;Q8IZP0;Q9ULZ2;Q8WV28;Q8WU20;Q969H4;Q92529;Q6PIZ9;Q9UQC2}  
 27774 Pathogen[ P03383] interacts with 3 human partners:{Q9ULZ2;Q13094;O15446}  
 27775 Pathogen[ P03410] interacts with 12 human partners:{Q9UQC2;Q13094;Q92529;Q6PIZ9;Q9ULZ2;Q8WV28;Q969H4;Q99704;Q8N157;Q8IZP0;O15446;Q8WU20}  
 27776 Pathogen[ P14075] interacts with 3 human partners:{Q13094;Q9ULZ2;O15446}  
 27777 Pathogen[ P0C206] interacts with 10 human partners:{Q8WU20;Q8IZP0;O15446;Q8N157;Q99704;Q9ULZ2;Q92529;Q13094;Q969H4;Q9UQC2}  
 27778 Pathogen[ P03363] interacts with 10 human partners:{Q8IZP0;Q99704;Q8WV28;O15446;Q92529;Q969H4;Q9ULZ2;Q8N157;Q13094;Q9UQC2}  
 27779 [Cluster 2526]GO:0021882+P biological\_process [name] regulation of transcription from RNA polymerase II promoter involved in forebrain neuron fate commitment [def] "Any process that modulates the frequency, rate or extent of transcription from an RNA polymerase II promoter that contributes to the commitment of a neuroblast to a neuronal fate. The neuron will reside in the forebrain." [GO\_REF  
 27780 Pathogen[ Q2Q067] interacts with 1 human partners:{Q07687}  
 27781 Pathogen[ P0C214] interacts with 1 human partners:{Q07687}  
 27782 Pathogen[ P03346] interacts with 1 human partners:{P56177}  
 27783 Pathogen[ Q85601] interacts with 1 human partners:{Q07687}  
 27784 Pathogen[ P14079] interacts with 1 human partners:{Q07687}  
 27785 Pathogen[ P03383] interacts with 1 human partners:{Q07687}  
 27786 Pathogen[ P03410] interacts with 1 human partners:{Q07687}  
 27787 Pathogen[ P14075] interacts with 1 human partners:{Q07687}  
 27788 Pathogen[ P0C206] interacts with 2 human partners:{Q07687;P56177}  
 27789 Pathogen[ P03363] interacts with 2 human partners:{P56177;Q07687}  
 27790 [Cluster 2527]GO:0055001+P biological\_process [name] muscle cell development [def] "The process whose specific outcome is the progression of a muscle cell over time, from its formation to the mature structure. Muscle cell development does not include the steps involved in committing an unspecified cell to the muscle cell fate." [CL  
 27791 Pathogen[ Q2Q067] interacts with 2 human partners:{Q14934;Q12968}  
 27792 Pathogen[ P0C214] interacts with 2 human partners:{Q12968;Q14934}  
 27793 Pathogen[ P03346] interacts with 2 human partners:{Q14934;Q12968}  
 27794 Pathogen[ Q85601] interacts with 2 human partners:{Q14934;Q12968}  
 27795 Pathogen[ P14079] interacts with 3 human partners:{Q12968;Q14934;Q96LD1}  
 27796 Pathogen[ P03383] interacts with 2 human partners:{Q14934;Q12968}  
 27797 Pathogen[ P03410] interacts with 3 human partners:{Q12968;Q14934;Q96LD1}  
 27798 Pathogen[ P14075] interacts with 2 human partners:{Q14934;Q12968}  
 27799 Pathogen[ P0C206] interacts with 2 human partners:{Q12968;Q14934}  
 27800 Pathogen[ P03363] interacts with 2 human partners:{Q12968;Q14934}  
 27801 [Cluster 2528]GO:0006475+P biological\_process [name] internal protein amino acid acetylation [def] "The addition of an acetyl group to a non-terminal amino acid in a protein." [GOC  
 27802 Pathogen[ Q2Q067] interacts with 3 human partners:{O14929;P41227;P40926}  
 27803 Pathogen[ P0C214] interacts with 5 human partners:{P35558;P41227;O14929;P40926;P04424}  
 27804 Pathogen[ P03346] interacts with 3 human partners:{P41227;P40926;O14929}  
 27805 Pathogen[ Q85601] interacts with 3 human partners:{P41227;O14929;P40926}  
 27806 Pathogen[ P14079] interacts with 3 human partners:{P41227;O14929;P04424}  
 27807 Pathogen[ P03383] interacts with 3 human partners:{P40926;P41227;O14929}  
 27808 Pathogen[ P03410] interacts with 4 human partners:{O14929;P04424;P41227;P40926}  
 27809 Pathogen[ P14075] interacts with 3 human partners:{P41227;P40926;O14929}  
 27810 Pathogen[ P0C206] interacts with 3 human partners:{P41227;O14929;P40926}  
 27811 Pathogen[ P03363] interacts with 2 human partners:{P41227;O14929}  
 27812 [Cluster 2529]GO:2000001+P biological\_process [name] regulation of DNA damage checkpoint [def] "Any process that modulates the frequency, rate or extent of a DNA damage checkpoint." [GOC  
 27813 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UK73}  
 27814 Pathogen[ P0C214] interacts with 1 human partners:{Q9UK73}  
 27815 Pathogen[ P03346] interacts with 1 human partners:{Q9UK73}  
 27816 Pathogen[ Q85601] interacts with 1 human partners:{Q9UK73}  
 27817 Pathogen[ P14079] interacts with 1 human partners:{Q9UK73}  
 27818 Pathogen[ P03383] interacts with 1 human partners:{Q9UK73}  
 27819 Pathogen[ P03410] interacts with 1 human partners:{Q9UK73}  
 27820 Pathogen[ P14075] interacts with 1 human partners:{Q9UK73}  
 27821 Pathogen[ P0C206] interacts with 1 human partners:{Q9UK73}  
 27822 Pathogen[ P03363] interacts with 1 human partners:{Q9UK73}  
 27823 [Cluster 2530]GO:0050766+P biological\_process [name] positive regulation of phagocytosis [def] "Any process that activates or increases the frequency, rate or extent of phagocytosis." [GOC  
 27824 Pathogen[ Q2Q067] interacts with 2 human partners:{P27797;P23769}  
 27825 Pathogen[ P0C214] interacts with 2 human partners:{P23769;P27797}  
 27826 Pathogen[ P03346] interacts with 2 human partners:{P23769;P27797}  
 27827 Pathogen[ Q85601] interacts with 2 human partners:{P23769;P27797}  
 27828 Pathogen[ P14079] interacts with 2 human partners:{Q08722;P23769}  
 27829 Pathogen[ P03383] interacts with 2 human partners:{P23769;P27797}

27830 Pathogen[ P03410] interacts with 3 human partners:{Q08722;P23769;P27797}  
27831 Pathogen[ P14075] interacts with 2 human partners:{P23769;P27797}  
27832 Pathogen[ P0C206] interacts with 2 human partners:{P27797;P23769}  
27833 Pathogen[ P03363] interacts with 1 human partners:{P27797}  
27834 [Cluster 2531]GO:0001568+P biological\_process [name] blood vessel development [def] "The process whose specific outcome is the progression of a blood vessel over time, from its formation to the mature structure. The blood vessel is the vasculature carrying blood." [GOC  
27835 Pathogen[ Q2Q067] interacts with 5 human  
partners:{Q86YP4;P35869;O75360;Q9Y5J3;Q8N693}  
27836 Pathogen[ P0C214] interacts with 5 human  
partners:{P35869;Q8N693;Q9Y5J3;Q86YP4;O75360}  
27837 Pathogen[ P03346] interacts with 13 human  
partners:{Q99626;Q8N693;Q9Y5J3;O60479;Q86YP4;P46109;O14627;Q12778;P35713;Q9P2D1;O753  
60;P35869;O75593}  
27838 Pathogen[ Q85601] interacts with 6 human  
partners:{O75360;Q9P2D1;Q86YP4;Q8N693;P35869;Q9Y5J3}  
27839 Pathogen[ P14079] interacts with 8 human  
partners:{P35869;Q06413;Q8N693;P46109;Q86YP4;Q9P2D1;Q9Y5J3;O75360}  
27840 Pathogen[ P03383] interacts with 4 human partners:{Q86YP4;O75360;Q8N693;P35869}  
27841 Pathogen[ P03410] interacts with 6 human  
partners:{Q9Y5J3;Q86YP4;Q9P2D1;Q8N693;O75360;P46109}  
27842 Pathogen[ P14075] interacts with 4 human partners:{P35869;Q8N693;O75360;Q86YP4}  
27843 Pathogen[ P0C206] interacts with 7 human  
partners:{P35869;Q9P2D1;Q86YP4;O75360;Q9Y5J3;Q8N693;Q86YT6}  
27844 Pathogen[ P03363] interacts with 9 human  
partners:{O75360;Q9Y5J3;Q99626;Q86YP4;P46109;O60479;Q8N693;P35869;O14627}  
27845 [Cluster 2532]GO:0045638+P biological\_process [name] negative regulation of myeloid  
cell differentiation [def] "Any process that stops, prevents, or reduces the  
frequency, rate or extent of myeloid cell differentiation." [GOC  
27846 Pathogen[ Q2Q067] interacts with 12 human  
partners:{Q8WVC0;Q6PD62;Q6P1J9;Q9GZS3;Q05516;P23769;Q96T37;Q8WVJ9;P25963;Q8N7H5;P266  
51;Q00534}  
27847 Pathogen[ P0C214] interacts with 12 human  
partners:{P23769;Q00534;Q6P1J9;Q8N7H5;P25963;Q8WVC0;P26651;Q8WVJ9;Q6PD62;Q96T37;Q055  
16;Q9GZS3}  
27848 Pathogen[ P03346] interacts with 12 human  
partners:{Q6PD62;P25963;P23769;Q8WVC0;Q8WVJ9;Q9GZS3;Q05516;Q00534;P26651;Q96T37;Q6P1  
J9;Q8N7H5}  
27849 Pathogen[ Q85601] interacts with 12 human  
partners:{Q6PD62;Q8WVC0;Q6P1J9;P23769;Q9GZS3;P26651;Q05516;Q96T37;Q00534;Q8N7H5;Q8WV  
J9;P25963}  
27850 Pathogen[ P14079] interacts with 9 human  
partners:{Q96T37;Q8WVJ9;Q05516;Q9GZS3;Q6PD62;Q8WVC0;Q6P1J9;Q8N7H5;P23769}  
27851 Pathogen[ P03383] interacts with 11 human  
partners:{Q6P1J9;Q8WVJ9;Q6PD62;P23769;Q05516;Q00534;Q8WVC0;P25963;P26651;Q9GZS3;Q8N7  
H5}  
27852 Pathogen[ P03410] interacts with 11 human  
partners:{Q8WVC0;Q8WVJ9;Q00534;Q6PD62;Q96T37;P26651;Q9GZS3;Q8N7H5;Q6P1J9;P23769;P259  
63}  
27853 Pathogen[ P14075] interacts with 11 human  
partners:{P23769;P26651;Q8WVC0;Q00534;P25963;Q8WVJ9;Q8N7H5;Q6P1J9;Q6PD62;Q9GZS3;Q055  
16}  
27854 Pathogen[ P0C206] interacts with 12 human  
partners:{Q96T37;Q6PD62;P26651;Q05516;P25963;Q8WVJ9;Q8N7H5;Q9GZS3;Q8WVC0;P23769;Q6P1  
J9;Q00534}  
27855 Pathogen[ P03363] interacts with 11 human  
partners:{Q9GZS3;Q8WVC0;P25963;Q00534;Q6P1J9;Q96T37;P26651;Q05516;Q8N7H5;Q8WVJ9;Q6PD  
62}  
27856 [Cluster 2533]GO:0051560+P biological\_process [name] mitochondrial calcium ion  
homeostasis [def] "Any process involved in the maintenance of an internal steady state  
of calcium ions within the cytoplasm of a cell or between mitochondria and their  
surroundings." [GOC  
27857 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NRI5}  
27858 Pathogen[ P0C214] interacts with 1 human partners:{Q9NRI5}  
27859 Pathogen[ P03346] interacts with 2 human partners:{Q9NRI5;Q16891}  
27860 Pathogen[ Q85601] interacts with 1 human partners:{Q9NRI5}  
27861 Pathogen[ P14079] interacts with 2 human partners:{Q16891;Q9NRI5}  
27862 Pathogen[ P03383] interacts with 1 human partners:{Q9NRI5}  
27863 Pathogen[ P03410] interacts with 2 human partners:{Q9NRI5;Q16891}  
27864 Pathogen[ P14075] interacts with 1 human partners:{Q9NRI5}  
27865 Pathogen[ P0C206] interacts with 2 human partners:{Q16891;Q9NRI5}  
27866 Pathogen[ P03363] interacts with 1 human partners:{Q9NRI5}  
27867 [Cluster 2534]GO:0030513+P biological\_process [name] positive regulation of BMP  
signaling pathway [def] "Any process that activates or increases the frequency, rate  
or extent of BMP signaling pathway activity." [GOC

27868 Pathogen[ Q2Q067] interacts with 5 human partners:{Q13485;Q2M1K9;P35548;Q06330;Q15796}

27869 Pathogen[ P0C214] interacts with 6 human partners:{Q2M1K9;Q06330;Q13485;Q15796;Q9H469;P35548}

27870 Pathogen[ P03346] interacts with 6 human partners:{Q06330;Q9H469;P35548;Q2M1K9;Q15796;Q13485}

27871 Pathogen[ Q85601] interacts with 6 human partners:{Q06330;Q2M1K9;Q9H469;P35548;Q13485;Q15796}

27872 Pathogen[ P14079] interacts with 3 human partners:{Q06330;Q2M1K9;P28360}

27873 Pathogen[ P03383] interacts with 5 human partners:{Q06330;Q13485;P35548;Q15796;Q2M1K9}

27874 Pathogen[ P03410] interacts with 6 human partners:{Q9H469;Q06330;Q2M1K9;P35548;Q13485;Q15796}

27875 Pathogen[ P14075] interacts with 5 human partners:{P35548;Q15796;Q13485;Q06330;Q2M1K9}

27876 Pathogen[ P0C206] interacts with 6 human partners:{Q06330;Q15796;P35548;Q13485;Q2M1K9;Q9H469}

27877 Pathogen[ P03363] interacts with 6 human partners:{Q06330;P35548;Q2M1K9;Q15796;Q13485;Q9H469}

27878 [Cluster 2535]GO:0030048+P biological\_process [name] actin filament-based movement [def] "Movement of organelles or other particles along actin filaments, or sliding of actin filaments past each other, mediated by motor proteins." [GOC

27879 Pathogen[ Q2Q067] interacts with 3 human partners:{O43516;P42768;P35579}

27880 Pathogen[ P0C214] interacts with 8 human partners:{Q9UM54;P11055;O43516;P35580;Q7Z406;P13533;Q9Y623;P42768}

27881 Pathogen[ P03346] interacts with 3 human partners:{O43516;P42768;P35579}

27882 Pathogen[ Q85601] interacts with 9 human partners:{P13533;P35579;O43516;Q7Z406;P42768;P11055;P35580;Q9UM54;Q9Y623}

27883 Pathogen[ P14079] interacts with 5 human partners:{O43516;P35579;Q9UM54;P68032;P42768}

27884 Pathogen[ P03383] interacts with 4 human partners:{O43516;P42768;P35580;P35579}

27885 Pathogen[ P03410] interacts with 6 human partners:{O43516;P35579;P42768;Q9UM54;P35580;P13533}

27886 Pathogen[ P14075] interacts with 3 human partners:{P42768;O43516;P35579}

27887 Pathogen[ P0C206] interacts with 8 human partners:{Q9UM54;P13533;O43516;Q9Y623;P11055;P35579;P42768;P35580}

27888 Pathogen[ P03363] interacts with 3 human partners:{P35579;P42768;O43516}

27889 [Cluster 2536]GO:0071294+P biological\_process [name] cellular response to zinc ion [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a zinc ion stimulus." [GOC

27890 Pathogen[ Q2Q067] interacts with 9 human partners:{P07438;Q93083;P13640;P04732;P04733;P80294;P04731;P80297;P02795}

27891 Pathogen[ P0C214] interacts with 9 human partners:{P13640;P80297;P04732;P02795;P04733;P07438;P80294;P04731;Q93083}

27892 Pathogen[ P03346] interacts with 10 human partners:{P04732;P80294;P07438;P04733;P13640;Q93083;P80297;Q8N339;P02795;P04731}

27893 Pathogen[ Q85601] interacts with 10 human partners:{P80294;P04732;Q93083;P07438;P02795;Q8N339;P80297;P04733;P04731;P13640}

27894 Pathogen[ P14079] interacts with 10 human partners:{P80297;Q93083;P02795;Q8N339;P80294;P07438;P13640;P04731;P04732;P04733}

27895 Pathogen[ P03383] interacts with 9 human partners:{P04733;P80294;Q93083;P13640;P80297;P02795;P04732;P04731;P07438}

27896 Pathogen[ P03410] interacts with 10 human partners:{P07438;P80297;P04733;Q8N339;P13640;P04731;P02795;Q93083;P80294;P04732}

27897 Pathogen[ P14075] interacts with 9 human partners:{P04733;P80297;P07438;Q93083;P13640;P80294;P02795;P04731;P04732}

27898 Pathogen[ P0C206] interacts with 10 human partners:{P07438;P13640;P04732;P04733;P80294;Q93083;P04731;Q8N339;P02795;P80297}

27899 Pathogen[ P03363] interacts with 9 human partners:{P80294;P80297;P02795;P13640;P04732;P04731;P07438;P04733;Q93083}

27900 [Cluster 2537]GO:0030010+P biological\_process [name] establishment of cell polarity [def] "The specification and formation of anisotropic intracellular organization or cell growth patterns." [GOC

27901 Pathogen[ Q2Q067] interacts with 3 human partners:{Q7L804;P23528;Q86SQ7}

27902 Pathogen[ P0C214] interacts with 2 human partners:{Q7L804;Q86SQ7}

27903 Pathogen[ P03346] interacts with 5 human partners:{Q96A65;Q7L804;Q86SQ7;Q5T2T1;P23528}

27904 Pathogen[ Q85601] interacts with 4 human partners:{Q96A65;Q7L804;Q86SQ7;P23528}

27905 Pathogen[ P14079] interacts with 5 human partners:{Q7L804;Q5T2T1;P23528;Q86SQ7;Q96A65}

27906 Pathogen[ P03383] interacts with 3 human partners:{Q7L804;Q86SQ7;P23528}

27907 Pathogen[ P03410] interacts with 5 human partners:{Q7L804;Q5T2T1;Q96A65;Q86SQ7;P23528}

27908 Pathogen[ P14075] interacts with 3 human partners:{Q86SQ7;P23528;Q7L804}

27909 Pathogen[ P0C206] interacts with 6 human

27910 partners:{Q86SQ7;Q96A65;P30291;Q5T2T1;Q7L804;P23528}  
Pathogen[ P03363] interacts with 5 human  
partners:{Q7L804;Q96A65;Q5T2T1;P23528;Q86SQ7}

27911 [Cluster 2538]GO:0006996+P biological\_process [name] organelle organization [def] "A process that is carried out at the cellular level which results in the assembly, arrangement of constituent parts, or disassembly of an organelle within a cell. An organelle is an organized structure of distinctive morphology and function. Includes the nucleus, mitochondria, plastids, vacuoles, vesicles, ribosomes and the cytoskeleton. Excludes the plasma membrane." [GOC

27912 Pathogen[ Q2Q067] interacts with 6 human  
partners:{Q9NQG7;Q969F9;Q96EV8;Q9H8Y8;Q86YV9;Q9UPZ3}

27913 Pathogen[ P0C214] interacts with 6 human  
partners:{Q9NQG7;Q969F9;Q86YV9;Q9H8Y8;Q96EV8;Q9UPZ3}

27914 Pathogen[ P03346] interacts with 6 human  
partners:{Q9NQG7;Q86YV9;Q96EV8;Q969F9;Q9H8Y8;Q9UPZ3}

27915 Pathogen[ Q85601] interacts with 6 human  
partners:{Q9NQG7;Q9UPZ3;Q86YV9;Q96EV8;Q9H8Y8;Q969F9}

27916 Pathogen[ P14079] interacts with 8 human  
partners:{Q9NQG7;Q86YV9;Q92902;Q9H8Y8;Q9UPZ3;O60282;Q969F9;Q96EV8}

27917 Pathogen[ P03383] interacts with 6 human  
partners:{Q9NQG7;Q969F9;Q96EV8;Q86YV9;Q9UPZ3;Q9H8Y8}

27918 Pathogen[ P03410] interacts with 8 human  
partners:{Q9NQG7;Q92902;O60282;Q9H8Y8;Q9UPZ3;Q86YV9;Q969F9;Q96EV8}

27919 Pathogen[ P14075] interacts with 6 human  
partners:{Q9NQG7;Q86YV9;Q9H8Y8;Q969F9;Q9UPZ3;Q96EV8}

27920 Pathogen[ P0C206] interacts with 6 human  
partners:{Q9NQG7;Q9UPZ3;Q969F9;Q9H8Y8;Q96EV8;Q86YV9}

27921 Pathogen[ P03363] interacts with 6 human  
partners:{Q9NQG7;Q9UPZ3;O60282;Q92902;Q9H8Y8;Q969F9}

27922 [Cluster 2539]GO:0045739+P biological\_process [name] positive regulation of DNA repair [def] "Any process that activates or increases the frequency, rate or extent of DNA repair." [GOC

27923 Pathogen[ Q2Q067] interacts with 15 human  
partners:{Q86W56;O00213;Q99502;Q9NWX8;P27695;Q99504;P61088;Q6UWZ7;O76064;Q15819;Q13216;P16455;Q9NWX7;Q96RL1;P53567}

27924 Pathogen[ P0C214] interacts with 16 human  
partners:{P53567;O00213;P27695;Q9NWX8;Q86W56;Q13216;Q15819;Q6UWZ7;Q99504;Q96RL1;P16455;Q9NWX7;Q8IYW5;O76064;P61088;Q99502}

27925 Pathogen[ P03346] interacts with 16 human  
partners:{O00213;Q13263;O76064;Q96RL1;Q99502;P61088;Q9NWX7;Q13216;Q8IYW5;Q9NWX8;Q86W56;P53567;P27695;Q99504;Q6UWZ7;Q15819}

27926 Pathogen[ Q85601] interacts with 17 human  
partners:{O00213;Q96RL1;P53567;P16455;Q13216;Q99504;Q13263;O76064;Q99502;Q6UWZ7;Q9NWX8;Q8IYW5;P61088;P27695;Q9NWX7;Q86W56;Q15819}

27927 Pathogen[ P14079] interacts with 13 human  
partners:{Q99502;P53567;Q15819;Q6UWZ7;O00213;Q13216;P16455;Q9NWX7;Q9NWX8;P27695;Q96RL1;Q86W56;Q99504}

27928 Pathogen[ P03383] interacts with 12 human  
partners:{Q99504;O00213;Q13216;Q96RL1;P61088;Q86W56;Q15819;Q9NWX8;P53567;P27695;Q9NWX7;Q6UWZ7}

27929 Pathogen[ P03410] interacts with 14 human  
partners:{Q96RL1;Q9NWX7;Q9NWX8;Q99502;P53567;O00213;P61088;Q15819;P16455;Q6UWZ7;Q99504;Q86W56;Q13216;P27695}

27930 Pathogen[ P14075] interacts with 13 human  
partners:{O00213;Q15819;Q99504;P27695;P53567;Q9NWX8;P61088;Q13216;Q9NWX7;Q6UWZ7;Q99502;Q86W56;Q96RL1}

27931 Pathogen[ P0C206] interacts with 17 human  
partners:{P27695;P53567;Q99504;Q13263;Q8IYW5;Q13216;O00213;P61088;Q86W56;Q9NWX8;Q15819;Q99502;Q6UWZ7;Q96RL1;O76064;P16455;Q9NWX7}

27932 Pathogen[ P03363] interacts with 12 human  
partners:{P53567;Q96RL1;O00213;Q6UWZ7;Q8IYW5;P61088;Q9NWX8;Q99504;Q9NWX7;Q86W56;Q13216;Q15819}

27933 [Cluster 2540]GO:0045046+P biological\_process [name] protein import into peroxisome membrane [def] "The targeting of proteins into the peroxisomal membrane. The process is not well understood, but both signals and mechanism differ from those involved in peroxisomal matrix protein import." [ISBN

27934 Pathogen[ Q2Q067] interacts with 1 human partners:{P40855}

27935 Pathogen[ P0C214] interacts with 1 human partners:{P40855}

27936 Pathogen[ P03346] interacts with 3 human partners:{P56589;P50542;P40855}

27937 Pathogen[ Q85601] interacts with 1 human partners:{P40855}

27938 Pathogen[ P14079] interacts with 5 human  
partners:{Q9Y5Y5;P40855;P56589;P50542;Q7Z412}

27939 Pathogen[ P03383] interacts with 1 human partners:{P40855}

27940 Pathogen[ P03410] interacts with 4 human partners:{Q9Y5Y5;P40855;P50542;P56589}

27941 Pathogen[ P14075] interacts with 1 human partners:{P40855}

27942 Pathogen[ P0C206] interacts with 3 human partners:{P56589;P50542;P40855}

27943 Pathogen[ P03363] interacts with 1 human partners:{P40855}

27944 [Cluster 2541]GO:0021660+P biological\_process [name] rhombomere 3 formation [def] "The process that gives rise to rhombomere 3. This process pertains to the initial formation of a structure from unspecified parts. Rhombomeres are transverse segments of the developing rhombencephalon. Rhombomeres are lineage restricted, express different genes from one another, and adopt different developmental fates. Rhombomeres are numbered in anterior to posterior order." [GO\_REF

27945 Pathogen[ Q2Q067] interacts with 1 human partners:{P11161}

27946 Pathogen[ P0C214] interacts with 1 human partners:{P11161}

27947 Pathogen[ P03346] interacts with 1 human partners:{P11161}

27948 Pathogen[ Q85601] interacts with 1 human partners:{P11161}

27949 Pathogen[ P14079] interacts with 1 human partners:{P11161}

27950 Pathogen[ P03383] interacts with 1 human partners:{P11161}

27951 Pathogen[ P03410] interacts with 1 human partners:{P11161}

27952 Pathogen[ P14075] interacts with 1 human partners:{P11161}

27953 Pathogen[ P0C206] interacts with 1 human partners:{P11161}

27954 Pathogen[ P03363] interacts with 1 human partners:{P11161}

27955 [Cluster 2542]GO:0048701+P biological\_process [name] embryonic cranial skeleton morphogenesis [def] "The process in which the anatomical structures of the cranial skeleton are generated and organized during the embryonic phase." [GOC

27956 Pathogen[ Q2Q067] interacts with 5 human partners:{P84022;Q8WVJ9;Q15796;Q07687;P54821}

27957 Pathogen[ P0C214] interacts with 4 human partners:{P84022;Q07687;Q15796;Q8WVJ9}

27958 Pathogen[ P03346] interacts with 11 human partners:{Q9NPC8;P54821;Q99811;Q9UIU6;Q15796;Q9BYW2;P84022;Q8WVJ9;Q15475;P78411;Q96SF7}

27959 Pathogen[ Q85601] interacts with 4 human partners:{P84022;Q07687;Q8WVJ9;Q15796}

27960 Pathogen[ P14079] interacts with 3 human partners:{Q8WVJ9;P54826;Q07687}

27961 Pathogen[ P03383] interacts with 4 human partners:{Q8WVJ9;Q07687;P84022;Q15796}

27962 Pathogen[ P03410] interacts with 5 human partners:{P84022;Q8WVJ9;Q07687;P54826;Q15796}

27963 Pathogen[ P14075] interacts with 5 human partners:{Q15796;Q8WVJ9;Q07687;P84022;P54826}

27964 Pathogen[ P0C206] interacts with 7 human partners:{P84022;Q07687;P54821;P78411;Q15796;Q8WVJ9;P54826}

27965 Pathogen[ P03363] interacts with 8 human partners:{P78411;Q15796;P84022;P54821;Q99811;Q07687;Q9NPC8;Q8WVJ9}

27966 [Cluster 2543]GO:0006941+P biological\_process [name] striated muscle contraction [def] "A process in which force is generated within striated muscle tissue, resulting in the shortening of the muscle. Force generation involves a chemo-mechanical energy conversion step that is carried out by the actin/myosin complex activity, which generates force through ATP hydrolysis. Striated muscle is a type of muscle in which the repeating units (sarcomeres) of the contractile myofibrils are arranged in registry throughout the cell, resulting in transverse or oblique striations observable at the level of the light microscope." [GOC

27967 Pathogen[ Q2Q067] interacts with 2 human partners:{P15259;Q14602}

27968 Pathogen[ P0C214] interacts with 4 human partners:{P15259;P19429;P13533;Q14602}

27969 Pathogen[ P03346] interacts with 4 human partners:{Q9UHP9;O60662;P15259;Q14602}

27970 Pathogen[ Q85601] interacts with 3 human partners:{P13533;P15259;Q14602}

27971 Pathogen[ P14079] interacts with 5 human partners:{P15259;P19429;Q9UHP9;Q14602;Q9Y4J8}

27972 Pathogen[ P03383] interacts with 2 human partners:{Q14602;P15259}

27973 Pathogen[ P03410] interacts with 6 human partners:{Q9UHP9;P19429;Q14602;P15259;P13533;Q9Y4J8}

27974 Pathogen[ P14075] interacts with 3 human partners:{Q14602;Q9UHP9;P15259}

27975 Pathogen[ P0C206] interacts with 6 human partners:{Q9UHP9;P13533;Q14602;P19429;Q9Y4J8;P15259}

27976 Pathogen[ P03363] interacts with 5 human partners:{Q9UHP9;Q14602;O60662;P19429;P15259}

27977 [Cluster 2544]GO:0033600+P biological\_process [name] negative regulation of mammary gland epithelial cell proliferation [def] "Any process that stops, prevents or reduces the rate or extent of mammary gland epithelial cell proliferation." [GOC

27978 Pathogen[ Q2Q067] interacts with 3 human partners:{P43268;P42771;Q99623}

27979 Pathogen[ P0C214] interacts with 3 human partners:{Q99623;P42771;P43268}

27980 Pathogen[ P03346] interacts with 4 human partners:{P42771;P51587;Q99623;P43268}

27981 Pathogen[ Q85601] interacts with 4 human partners:{Q99623;P42771;P43268;P51587}

27982 Pathogen[ P14079] interacts with 3 human partners:{Q99623;P51587;P42771}

27983 Pathogen[ P03383] interacts with 3 human partners:{P42771;P43268;Q99623}

27984 Pathogen[ P03410] interacts with 4 human partners:{P42771;Q99623;P51587;P43268}

27985 Pathogen[ P14075] interacts with 3 human partners:{P43268;P42771;Q99623}

27986 Pathogen[ P0C206] interacts with 4 human partners:{P51587;Q99623;P43268;P42771}

27987 Pathogen[ P03363] interacts with 3 human partners:{Q99623;P43268;P42771}

27988 [Cluster 2545]GO:0006354+P biological\_process [name] transcription elongation, DNA-dependent [def] "The extension of an RNA molecule after transcription initiation and promoter clearance at a DNA-dependent RNA polymerase promoter by the addition of ribonucleotides catalyzed by an RNA polymerase." [GOC

27989 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9HB65;O00267;Q15560}  
27990 Pathogen[ P0C214] interacts with 3 human partners:{O00267;Q15560;Q9HB65}  
27991 Pathogen[ P03346] interacts with 3 human partners:{Q9HB65;Q15560;O00267}  
27992 Pathogen[ Q85601] interacts with 3 human partners:{Q15560;O00267;Q9HB65}  
27993 Pathogen[ P14079] interacts with 3 human partners:{Q15560;Q9HB65;O00267}  
27994 Pathogen[ P03383] interacts with 3 human partners:{Q15560;O00267;Q9HB65}  
27995 Pathogen[ P03410] interacts with 3 human partners:{O00267;Q15560;Q9HB65}  
27996 Pathogen[ P14075] interacts with 3 human partners:{Q15560;Q9HB65;O00267}  
27997 Pathogen[ P0C206] interacts with 3 human partners:{Q9HB65;Q15560;O00267}  
27998 Pathogen[ P03363] interacts with 3 human partners:{Q9HB65;O00267;Q15560}  
27999 [Cluster 2546]GO:0009086+P biological\_process [name] methionine biosynthetic process  
[def] "The chemical reactions and pathways resulting in the formation of methionine  
(2-amino-4-(methylthio)butanoic acid), a sulfur-containing, essential amino acid found  
in peptide linkage in proteins." [GOC  
28000 Pathogen[ Q2Q067] interacts with 3 human partners:{Q96GX9;Q9BV57;Q9BV20}  
28001 Pathogen[ P0C214] interacts with 6 human  
partners:{P42898;Q9BV57;Q96GX9;Q9UHY7;P11586;Q9BV20}  
28002 Pathogen[ P03346] interacts with 5 human  
partners:{Q9UBK8;Q9BV20;Q9BV57;Q9UHY7;Q96GX9}  
28003 Pathogen[ Q85601] interacts with 4 human partners:{Q96GX9;Q9BV57;Q9UHY7;Q9BV20}  
28004 Pathogen[ P14079] interacts with 5 human  
partners:{Q9BV20;Q96GX9;Q9H2M3;Q9BV57;P42898}  
28005 Pathogen[ P03383] interacts with 3 human partners:{Q9BV57;Q96GX9;Q9BV20}  
28006 Pathogen[ P03410] interacts with 5 human  
partners:{Q9H2M3;Q9BV20;P42898;Q96GX9;Q9BV57}  
28007 Pathogen[ P14075] interacts with 3 human partners:{Q96GX9;Q9BV57;Q9BV20}  
28008 Pathogen[ P0C206] interacts with 5 human  
partners:{Q9BV20;Q9UHY7;Q9H2M3;Q9BV57;Q96GX9}  
28009 Pathogen[ P03363] interacts with 3 human partners:{Q9BV57;Q9BV20;Q96GX9}  
28010 [Cluster 2547]GO:0030335+P biological\_process [name] positive regulation of cell  
migration [def] "Any process that activates or increases the frequency, rate or extent  
of cell migration." [GOC  
28011 Pathogen[ Q2Q067] interacts with 13 human  
partners:{Q9UH99;Q9H9T3;Q95684;P14921;Q0PNE2;Q95948;P56945;Q9H7S9;Q95163;Q15654;P840  
22;Q8TE02;P27986}  
28012 Pathogen[ P0C214] interacts with 14 human  
partners:{P56945;Q95684;P14921;P84022;Q9UH99;Q15654;Q0PNE2;Q8TE02;Q9BRT3;Q9H9T3;Q959  
48;P27986;Q95163;Q9H7S9}  
28013 Pathogen[ P03346] interacts with 17 human  
partners:{Q95684;Q8WXH0;Q0PNE2;Q9UH99;Q95163;Q9UBC0;Q9BRT3;P14921;P84022;P56945;Q9H9  
T3;Q95863;Q95948;Q9H7S9;Q8TE02;Q15654;P27986}  
28014 Pathogen[ Q85601] interacts with 13 human  
partners:{Q95684;P14921;Q9H7S9;Q9H9T3;Q15654;P27986;Q9UH99;P56945;Q95948;Q0PNE2;Q8TE  
02;P84022;Q95163}  
28015 Pathogen[ P14079] interacts with 14 human  
partners:{P31751;P01215;P09327;Q95684;Q95948;P01225;Q95163;Q8TE02;Q9H9T3;Q9BRT3;Q8WX  
H0;Q9H7S9;Q0PNE2;Q9UH99}  
28016 Pathogen[ P03383] interacts with 13 human  
partners:{P27986;P56945;Q95163;Q95684;P14921;Q9UH99;Q0PNE2;Q15654;P84022;Q8TE02;Q9H7  
S9;P01215;Q9H9T3}  
28017 Pathogen[ P03410] interacts with 16 human  
partners:{P84022;Q9BRT3;Q95684;Q0PNE2;P27986;Q9UH99;Q95948;Q9H9T3;P01215;Q15654;Q951  
63;Q8TE02;P56945;Q9H7S9;Q8WXH0;P14921}  
28018 Pathogen[ P14075] interacts with 13 human  
partners:{Q95684;P27986;Q8TE02;P14921;Q15654;Q95163;Q9H9T3;Q9UH99;P84022;Q9H7S9;P012  
15;Q0PNE2;P56945}  
28019 Pathogen[ P0C206] interacts with 17 human  
partners:{P84022;P14921;Q95684;Q9H9T3;Q9UH99;Q9UBC0;Q15654;P27986;Q95163;Q9H7S9;P012  
15;Q0PNE2;Q8TE02;Q8WXH0;P56945;Q9BRT3;Q95948}  
28020 Pathogen[ P03363] interacts with 14 human  
partners:{Q15654;Q9UBC0;Q95948;Q9H7S9;Q95684;Q8TE02;P14921;P84022;Q95163;Q0PNE2;P569  
45;Q9H9T3;P27986;Q9UH99}  
28021 [Cluster 2548]GO:0035313+P biological\_process [name] wound healing, spreading of  
epidermal cells [def] "The migration of an epidermal cell along or through a wound gap  
to reestablish a continuous epidermis." [GOC  
28022 Pathogen[ Q2Q067] interacts with 2 human partners:{Q96IF1;P35548}  
28023 Pathogen[ P0C214] interacts with 1 human partners:{P35548}  
28024 Pathogen[ P03346] interacts with 2 human partners:{P35548;Q96IF1}  
28025 Pathogen[ Q85601] interacts with 2 human partners:{P35548;Q96IF1}  
28026 Pathogen[ P14079] interacts with 1 human partners:{Q96IF1}  
28027 Pathogen[ P03383] interacts with 1 human partners:{P35548}  
28028 Pathogen[ P03410] interacts with 2 human partners:{Q96IF1;P35548}  
28029 Pathogen[ P14075] interacts with 1 human partners:{P35548}  
28030 Pathogen[ P0C206] interacts with 2 human partners:{Q96IF1;P35548}  
28031 Pathogen[ P03363] interacts with 2 human partners:{P35548;Q96IF1}  
28032 [Cluster 2549]GO:2001220+P biological\_process [name] negative regulation of G2 phase

of mitotic cell cycle [def] "Any process that stops, prevents or reduces the frequency, rate or extent of G2 phase of mitotic cell cycle." [GOC

28033 Pathogen[ Q2Q067] interacts with 1 human partners:{P01106}

28034 Pathogen[ P0C214] interacts with 1 human partners:{P01106}

28035 Pathogen[ P03346] interacts with 1 human partners:{P01106}

28036 Pathogen[ Q85601] interacts with 1 human partners:{P01106}

28037 Pathogen[ P14079] interacts with 1 human partners:{P01106}

28038 Pathogen[ P03383] interacts with 1 human partners:{P01106}

28039 Pathogen[ P03410] interacts with 1 human partners:{P01106}

28040 Pathogen[ P14075] interacts with 1 human partners:{P01106}

28041 Pathogen[ P0C206] interacts with 1 human partners:{P01106}

28042 Pathogen[ P03363] interacts with 1 human partners:{P01106}

28043 [Cluster 2550]GO:0006391+P biological\_process [name] transcription initiation from mitochondrial promoter [def] "A transcription initiation process that takes place at a promoter on the mitochondrial chromosome, and results in RNA synthesis by a mitochondrial RNA polymerase." [GOC

28044 Pathogen[ Q2Q067] interacts with 3 human partners:{O00411;Q9H5Q4;Q00059}

28045 Pathogen[ P0C214] interacts with 3 human partners:{O00411;Q00059;Q9H5Q4}

28046 Pathogen[ P03346] interacts with 3 human partners:{Q00059;Q9H5Q4;O00411}

28047 Pathogen[ Q85601] interacts with 3 human partners:{Q00059;Q9H5Q4;O00411}

28048 Pathogen[ P14079] interacts with 3 human partners:{Q00059;O00411;Q9H5Q4}

28049 Pathogen[ P03383] interacts with 3 human partners:{Q00059;Q9H5Q4;O00411}

28050 Pathogen[ P03410] interacts with 3 human partners:{Q00059;O00411;Q9H5Q4}

28051 Pathogen[ P14075] interacts with 3 human partners:{Q00059;Q9H5Q4;O00411}

28052 Pathogen[ P0C206] interacts with 3 human partners:{Q9H5Q4;Q00059;O00411}

28053 Pathogen[ P03363] interacts with 3 human partners:{O00411;Q00059;Q9H5Q4}

28054 [Cluster 2551]GO:0010256+P biological\_process [name] endomembrane system organization [def] "A process that is carried out at the cellular level which results in the assembly, arrangement of constituent parts, or disassembly of the endomembrane system." [GOC

28055 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9Y6D6}

28056 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y6D6}

28057 Pathogen[ P03346] interacts with 2 human partners:{Q9Y6D5;Q9Y6D6}

28058 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y6D6}

28059 Pathogen[ P14079] interacts with 2 human partners:{Q9Y6D5;Q9Y6D6}

28060 Pathogen[ P03383] interacts with 1 human partners:{Q9Y6D6}

28061 Pathogen[ P03410] interacts with 2 human partners:{Q9Y6D6;Q9Y6D5}

28062 Pathogen[ P14075] interacts with 1 human partners:{Q9Y6D6}

28063 Pathogen[ P0C206] interacts with 2 human partners:{Q9Y6D6;Q9Y6D5}

28064 Pathogen[ P03363] interacts with 1 human partners:{Q9Y6D6}

28065 [Cluster 2552]GO:0007286+P biological\_process [name] spermatid development [def] "The process whose specific outcome is the progression of a spermatid over time, from its formation to the mature structure." [GOC

28066 Pathogen[ Q2Q067] interacts with 12 human partners:{Q9UHB7;Q86XR8;Q8N196;Q9NS25;O43236;Q9Y2T7;Q9H091;Q9H160;O76064;O14556;Q8IXT1;O15287}

28067 Pathogen[ P0C214] interacts with 13 human partners:{Q9UHB7;O15287;Q9H091;O14556;Q9Y2T7;Q8IXT1;Q86XR8;Q9H160;Q9NS25;Q8N196;Q9NPC3;O43236;O76064}

28068 Pathogen[ P03346] interacts with 18 human partners:{O76064;Q9H091;Q96PU8;Q86XR8;Q96J94;Q9NS25;Q92879;Q9UHB7;O43236;O14556;O15287;Q8N196;Q9Y2T7;Q9NPC3;Q96MM3;Q8IXT1;Q9H160;Q9UJC3}

28069 Pathogen[ Q85601] interacts with 12 human partners:{Q8N196;Q9Y2T7;Q9NS25;Q86XR8;O76064;O14556;Q9NPC3;O15287;Q9UHB7;Q9H160;Q9H091;O43236}

28070 Pathogen[ P14079] interacts with 14 human partners:{Q5TIA1;Q8N196;Q9UJC3;Q9UHB7;Q8IXT1;Q9NPC3;Q9Y2T7;Q96KX2;Q9NS25;Q8TCU4;Q9H091;Q86XR8;Q9H160;O43236}

28071 Pathogen[ P03383] interacts with 11 human partners:{Q8IXT1;Q86XR8;O43236;Q9NS25;Q9Y2T7;Q9H160;O14556;O15287;Q9UHB7;Q8N196;Q9H091}

28072 Pathogen[ P03410] interacts with 16 human partners:{Q96KX2;Q9UJC3;O14556;Q9NPC3;Q8TCU4;Q9UHB7;Q9NS25;O43236;O15287;P04553;Q9H160;Q8IXT1;Q8N196;Q9H091;Q9Y2T7;Q5TIA1}

28073 Pathogen[ P14075] interacts with 11 human partners:{Q8N196;Q8IXT1;O43236;Q9H091;Q9UHB7;Q86XR8;Q9Y2T7;Q9NS25;O15287;Q9H160;O14556}

28074 Pathogen[ P0C206] interacts with 17 human partners:{Q86XR8;Q96MM3;Q9NS25;Q9H091;Q8TCU4;Q9UHB7;Q96PU8;Q8N196;Q8IXT1;Q9NPC3;Q9H160;O43236;O15287;O14556;Q9UJC3;O76064;Q9Y2T7}

28075 Pathogen[ P03363] interacts with 18 human partners:{Q9H160;O15287;P54652;Q9H091;Q9UHB7;Q92879;Q9NPC3;Q8N196;Q96MM3;Q96PU8;Q96J94;Q86XR8;Q9NS25;O14556;Q9Y2T7;O43236;Q8IXT1;Q9UJC3}

28076 [Cluster 2553]GO:0009888+P biological\_process [name] tissue development [def] "The process whose specific outcome is the progression of a tissue over time, from its formation to the mature structure." [ISBN

28077 Pathogen[ Q2Q067] interacts with 3 human partners:{Q08050;O43524;O95983}  
28078 Pathogen[ P0C214] interacts with 1 human partners:{O95983}  
28079 Pathogen[ P03346] interacts with 12 human  
partners:{P85037;Q7RTS3;Q9UJQ4;O95983;Q08050;O00409;Q12778;Q01167;P98177;O43524;Q132  
85;Q9HBU1}  
28080 Pathogen[ Q85601] interacts with 2 human partners:{O95983;Q08050}  
28081 Pathogen[ P14079] interacts with 2 human partners:{Q9UJQ4;O95983}  
28082 Pathogen[ P03383] interacts with 1 human partners:{O95983}  
28083 Pathogen[ P03410] interacts with 2 human partners:{O95983;Q9UJQ4}  
28084 Pathogen[ P14075] interacts with 2 human partners:{Q08050;O95983}  
28085 Pathogen[ P0C206] interacts with 3 human partners:{Q9UJQ4;O95983;Q08050}  
28086 Pathogen[ P03363] interacts with 8 human  
partners:{Q9UJQ4;Q7RTS3;O00409;O43524;Q08050;O95983;Q01167;Q9HBU1}  
28087 [Cluster 2554]GO:0033044+P biological\_process [name] regulation of chromosome  
organization [def] "Any process that modulates the frequency, rate or extent of a  
process involved in the formation, arrangement of constituent parts, or disassembly of a  
chromosome." [GOC  
28088 Pathogen[ Q2Q067] interacts with 1 human partners:{Q7Z7K6}  
28089 Pathogen[ P0C214] interacts with 1 human partners:{Q7Z7K6}  
28090 Pathogen[ P03346] interacts with 1 human partners:{Q7Z7K6}  
28091 Pathogen[ Q85601] interacts with 1 human partners:{Q7Z7K6}  
28092 Pathogen[ P14079] interacts with 1 human partners:{Q7Z7K6}  
28093 Pathogen[ P03383] interacts with 1 human partners:{Q7Z7K6}  
28094 Pathogen[ P03410] interacts with 1 human partners:{Q7Z7K6}  
28095 Pathogen[ P14075] interacts with 1 human partners:{Q7Z7K6}  
28096 Pathogen[ P0C206] interacts with 1 human partners:{Q7Z7K6}  
28097 Pathogen[ P03363] interacts with 1 human partners:{Q7Z7K6}  
28098 [Cluster 2555]GO:0007089+P biological\_process [name] traversing start control point of  
mitotic cell cycle [def] "Passage through a cell cycle control point late in G1 phase  
of the mitotic cell cycle just before entry into S phase\_ in most organisms studied,  
including budding yeast and animal cells, passage through start normally commits the  
cell to progressing through the entire cell cycle." [GOC  
28099 Pathogen[ Q2Q067] interacts with 3 human partners:{Q99741;P30307;Q00987}  
28100 Pathogen[ P0C214] interacts with 3 human partners:{P30307;Q00987;Q99741}  
28101 Pathogen[ P03346] interacts with 3 human partners:{Q00987;Q99741;P30307}  
28102 Pathogen[ Q85601] interacts with 3 human partners:{P30307;Q00987;Q99741}  
28103 Pathogen[ P14079] interacts with 4 human partners:{Q96DY7;P30307;Q00987;Q99741}  
28104 Pathogen[ P03383] interacts with 2 human partners:{P30307;Q99741}  
28105 Pathogen[ P03410] interacts with 4 human partners:{Q96DY7;Q00987;P30307;Q99741}  
28106 Pathogen[ P14075] interacts with 3 human partners:{Q96DY7;Q99741;P30307}  
28107 Pathogen[ P0C206] interacts with 4 human partners:{P30307;Q99741;Q00987;Q96DY7}  
28108 Pathogen[ P03363] interacts with 2 human partners:{Q99741;P30307}  
28109 [Cluster 2556]GO:0035928+P biological\_process [name] rRNA import into mitochondrion  
[def] "The directed movement of rRNA, ribosomal ribonucleic acid, from the cytoplasm  
into a mitochondrion." [GOC  
28110 Pathogen[ Q2Q067] interacts with 2 human partners:{Q8TCS8;Q9H0U6}  
28111 Pathogen[ P0C214] interacts with 3 human partners:{Q9H0U6;Q8TCS8;Q16762}  
28112 Pathogen[ P03346] interacts with 2 human partners:{Q9H0U6;Q8TCS8}  
28113 Pathogen[ Q85601] interacts with 2 human partners:{Q9H0U6;Q8TCS8}  
28114 Pathogen[ P14079] interacts with 3 human partners:{Q9H0U6;Q16762;Q8TCS8}  
28115 Pathogen[ P03383] interacts with 2 human partners:{Q8TCS8;Q9H0U6}  
28116 Pathogen[ P03410] interacts with 3 human partners:{Q8TCS8;Q16762;Q9H0U6}  
28117 Pathogen[ P14075] interacts with 2 human partners:{Q8TCS8;Q9H0U6}  
28118 Pathogen[ P0C206] interacts with 3 human partners:{Q9H0U6;Q8TCS8;Q16762}  
28119 Pathogen[ P03363] interacts with 1 human partners:{Q9H0U6}  
28120 [Cluster 2557]GO:0032927+P biological\_process [name] positive regulation of activin  
receptor signaling pathway [def] "Any process that activates or increases the  
frequency, rate or extent of the activity of any activin receptor signaling pathway."  
[GOC  
28121 Pathogen[ Q2Q067] interacts with 1 human partners:{P67870}  
28122 Pathogen[ P0C214] interacts with 1 human partners:{P67870}  
28123 Pathogen[ P03346] interacts with 1 human partners:{P67870}  
28124 Pathogen[ Q85601] interacts with 1 human partners:{P67870}  
28125 Pathogen[ P14079] interacts with 1 human partners:{P67870}  
28126 Pathogen[ P03383] interacts with 1 human partners:{P67870}  
28127 Pathogen[ P03410] interacts with 1 human partners:{P67870}  
28128 Pathogen[ P14075] interacts with 1 human partners:{P67870}  
28129 Pathogen[ P0C206] interacts with 1 human partners:{P67870}  
28130 Pathogen[ P03363] interacts with 1 human partners:{P67870}  
28131 [Cluster 2558]GO:0001543+P biological\_process [name] ovarian follicle rupture [def]  
"Disruption of theca cell layer releasing follicular fluid and/or the oocyte." [http  
28132 Pathogen[ Q2Q067] interacts with 1 human partners:{P48552}  
28133 Pathogen[ P0C214] interacts with 1 human partners:{P48552}  
28134 Pathogen[ P03346] interacts with 1 human partners:{P48552}  
28135 Pathogen[ Q85601] interacts with 1 human partners:{P48552}  
28136 Pathogen[ P14079] interacts with 1 human partners:{P48552}



28137 Pathogen[ P03383] interacts with 1 human partners:{P48552}  
28138 Pathogen[ P03410] interacts with 1 human partners:{P48552}  
28139 Pathogen[ P14075] interacts with 1 human partners:{P48552}  
28140 Pathogen[ P0C206] interacts with 1 human partners:{P48552}  
28141 Pathogen[ P03363] interacts with 1 human partners:{P48552}  
28142 [Cluster 2559]GO:0021960+P biological\_process [name] anterior commissure morphogenesis  
[def] "Generation of a long process of a CNS neuron, that carries efferent (outgoing)  
action potentials from the cell body in one half of the cerebral cortex towards target  
cells in the contralateral half. This axonal process is a member of those that make up  
the anterior commissure, a small midline fiber tract that lies at the anterior end of  
the corpus callosum." [GO\_REF  
28143 Pathogen[ Q2Q067] interacts with 1 human partners:{000712}  
28144 Pathogen[ P0C214] interacts with 1 human partners:{000712}  
28145 Pathogen[ P03346] interacts with 1 human partners:{000712}  
28146 Pathogen[ Q85601] interacts with 1 human partners:{000712}  
28147 Pathogen[ P14079] interacts with 1 human partners:{000712}  
28148 Pathogen[ P03383] interacts with 1 human partners:{000712}  
28149 Pathogen[ P03410] interacts with 1 human partners:{000712}  
28150 Pathogen[ P14075] interacts with 1 human partners:{000712}  
28151 Pathogen[ P0C206] interacts with 1 human partners:{000712}  
28152 Pathogen[ P03363] interacts with 1 human partners:{000712}  
28153 [Cluster 2560]GO:0000052+P biological\_process [name] citrulline metabolic process  
[def] "The chemical reactions and pathways involving citrulline,  
N5-carbamoyl-L-ornithine, an alpha amino acid not found in proteins." [ISBN  
28154 Pathogen[ Q2Q067] interacts with 1 human partners:{095865}  
28155 Pathogen[ P0C214] interacts with 1 human partners:{095865}  
28156 Pathogen[ P03346] interacts with 1 human partners:{095865}  
28157 Pathogen[ Q85601] interacts with 1 human partners:{095865}  
28158 Pathogen[ P14079] interacts with 1 human partners:{095865}  
28159 Pathogen[ P03383] interacts with 1 human partners:{095865}  
28160 Pathogen[ P03410] interacts with 1 human partners:{095865}  
28161 Pathogen[ P14075] interacts with 1 human partners:{095865}  
28162 Pathogen[ P0C206] interacts with 1 human partners:{095865}  
28163 Pathogen[ P03363] interacts with 1 human partners:{095865}  
28164 [Cluster 2561]GO:0085032+P biological\_process [name] modulation by symbiont of host  
I-kappaB kinase/NF-kappaB cascade [def] "Any process in which an organism modulates  
the frequency, rate or extent of host NF-kappaB-mediated signal transduction pathways  
during the host defense response. The host is defined as the larger of the organisms  
involved in a symbiotic interaction." [GOC  
28165 Pathogen[ Q2Q067] interacts with 1 human partners:{Q15025}  
28166 Pathogen[ P0C214] interacts with 1 human partners:{Q15025}  
28167 Pathogen[ P03346] interacts with 1 human partners:{Q15025}  
28168 Pathogen[ Q85601] interacts with 1 human partners:{Q15025}  
28169 Pathogen[ P14079] interacts with 1 human partners:{Q15025}  
28170 Pathogen[ P03383] interacts with 1 human partners:{Q15025}  
28171 Pathogen[ P03410] interacts with 1 human partners:{Q15025}  
28172 Pathogen[ P14075] interacts with 1 human partners:{Q15025}  
28173 Pathogen[ P0C206] interacts with 1 human partners:{Q15025}  
28174 Pathogen[ P03363] interacts with 1 human partners:{Q15025}  
28175 [Cluster 2562]GO:0007399+P biological\_process [name] nervous system development  
[def] "The process whose specific outcome is the progression of nervous tissue over  
time, from its formation to its mature state." [GOC  
28176 Pathogen[ Q2Q067] interacts with 81 human  
partners:{Q13562;P01100;Q9Y3A2;P54252;P31749;Q12837;O14786;P56524;Q9NR56;O75427;P158  
84;Q92922;Q13875;P63172;Q99081;P40763;P31040;O60481;O96019;P51531;Q8WXU2;P37275;P491  
16;O60315;Q14814;Q9NXR1;Q2M1K9;Q96K30;Q9Y4Z2;Q96EK5;Q8WUB8;O95416;Q00577;Q9UBB4;Q9BU  
X1;Q14203;Q9NYF0;Q99608;P78352;Q92782;Q96DF8;Q969G3;Q15102;Q12834;O60220;O14497;Q96R  
L7;P51532;Q02410;Q15742;Q9UHY8;Q92830;Q96GM5;O75920;Q8NFD5;O00139;Q9HBH7;P49639;Q86W  
G3;P12036;Q9UN36;O94805;Q9NRI5;Q12824;P60953;O75382;Q9NY43;Q8TAQ2;Q9UJX6;Q9HBD4;Q096  
66;Q99689;Q6STE5;Q66K74;P15923;Q8TDN4;Q16352;A7MD48;Q14194;Q02078;Q14738}  
28177 Pathogen[ P0C214] interacts with 83 human  
partners:{Q9UJX6;Q15742;Q9UI08;O14786;P49639;Q12824;Q15486;Q9NRI5;O14497;Q9UBB4;Q142  
03;Q99081;Q09666;Q9NR56;P15884;O60220;P01100;Q9HBD4;Q9HBH7;Q16352;P56524;Q2M1K9;Q6ST  
E5;P60953;P37275;Q99608;O00139;Q13875;Q14194;Q8TAQ2;Q02078;Q8TDN4;P78352;Q92922;Q151  
02;Q14814;Q9UHY8;Q969G3;Q12837;P49116;P15923;O95416;O14531;Q00577;Q9BUX1;Q96DF8;Q128  
34;Q99689;O95278;Q96RL7;Q96K30;P07093;Q8WXU2;Q8WUB8;O75920;P12036;Q14738;P63172;Q024  
10;Q99440;Q92830;P40763;O14727;Q86WG3;Q9NXR1;Q8NFD5;O60315;P51531;O94805;Q92782;Q9NY  
F0;Q9UN36;Q9Y2T3;Q96GM5;O96019;P31749;P54252;Q9NY43;Q66K74;P51532;O75427;O60481;Q9Y3  
A2}  
28178 Pathogen[ P03346] interacts with 131 human  
partners:{Q99081;O75382;Q9NRI5;Q9BZE0;Q9Y3A2;P49639;Q9Y4Z2;Q96DF8;Q9UBB4;Q16352;Q020  
78;P52954;P31040;Q9HBD4;O75427;Q14814;Q01538;Q9BUX1;Q96GM5;Q693B1;Q13449;Q9HD90;O433  
79;Q8NFD5;P78352;Q9HBH7;Q99784;P51532;Q00577;O60315;Q96HZ4;O00139;Q12837;Q2M1K9;P491  
16;Q99689;Q8TD26;P20264;P15923;P56524;Q9UL68;Q92858;Q99426;Q66K74;O14682;Q9NXR1;P529  
51;Q92886;P60953;Q99767;Q96QS3;Q12824;A6NJT0;Q9UI08;Q14203;O60902;Q8TDN4;A2RU54;Q024  
10;Q96SQ7;Q12834;A7MD48;Q9UJX6;Q92830;Q09666;P12036;Q15742;O96019;Q9UHY8;O60481;O950

- 96;P31749;Q15102;O14531;O60220;Q6ZP65;Q9C0C7;Q6STE5;O14497;Q96RL7;Q13875;Q92784;Q02548;Q14738;Q8WXU2;O94805;Q96K30;P37275;Q8IUQ4;P63172;O75920;Q96EK5;Q14190;Q99608;Q9NYF0;Q13516;Q969G3;Q92832;Q92922;Q99929;Q5XKR4;P56178;Q9H8V3;Q8WUB8;O75398;P51531;Q9Y6R0;O95278;Q14194;Q9UN36;Q13562;P40763;P0C2W1;Q8TAQ2;O14727;P01100;Q96NK8;Q9NY43;Q9Y586;Q9NR56;O95416;O14786;Q86WG3;P15884;P54252;Q9HCC6;Q92782;Q8N100;Q9UBP0;Q99581;Q9H2A3}
- 28179 Pathogen[ Q85601] interacts with 92 human partners: {P49639;Q99440;Q02078;O60481;Q9UHY8;Q9UJX6;P31749;Q9Y4Z2;Q01538;Q9BUX1;Q14194;Q9UN36;Q15486;Q6STE5;Q9UBB4;O75398;Q9UBP0;P12036;O60315;Q2M1K9;Q14814;P40763;Q9NYF0;O60220;Q9Y3A2;Q66K74;Q14738;Q96RL7;O14497;Q99767;O96019;Q9NR56;Q14203;Q6ZP65;Q8TDN4;Q15742;P63172;Q99608;O14786;Q92782;Q8WXU2;O95278;Q8WUB8;Q12834;P54252;P51531;Q13562;P01100;Q96GM5;Q92830;Q00577;Q09666;P51532;Q969G3;O95416;Q8NFD5;O75427;P31040;P78352;Q9HBH7;Q99689;P15923;O75920;O75382;Q9HBD4;Q86WG3;P37275;P56524;P60953;Q9NRI5;Q02410;Q99081;P49116;Q8TD26;O43379;Q16352;Q13875;Q9NXR1;Q96K30;P07093;P17677;O94805;Q92922;Q12824;Q12837;Q8TAQ2;Q9GZM8;Q9NY43;O00139;Q96DF8;P15884;Q15102}
- 28180 Pathogen[ P14079] interacts with 103 human partners: {Q9UHY8;O14773;Q96K30;O95416;P17677;Q92686;Q02078;Q06413;Q86WG3;Q6STE5;Q8IZ21;P63172;Q14738;O75072;Q9Y3A2;O60481;Q99581;Q92830;Q92782;Q96DF8;Q66K74;Q9Y586;Q02410;P12036;P54802;P54252;Q92922;P51532;Q15742;Q01538;P51531;Q9NRI5;O14497;Q9NY43;Q8TAQ2;O43379;P15923;Q9NR56;Q496H8;Q9Y2T3;Q12837;Q99608;Q8WXU2;O60315;Q9NPD7;Q9H488;Q8TD26;Q6PUV4;Q98TDN4;O94805;Q96RL7;Q9Y287;Q13875;Q99689;A7MD48;O75427;P31040;Q9UBB4;Q96EK5;O94772;Q15102;Q99426;Q92832;P48681;O00139;Q9NZ72;Q2M1K9;Q9HBH7;Q96GM5;Q8NFD5;Q8WUB8;Q9H8V3;Q14194;Q92982;Q6ZP65;Q9GZM8;Q00577;Q9UJX6;O75366;Q14814;O75920;Q99440;O60220;Q09666;Q15486;P15884;Q12824;Q99081;P49116;Q9NXR1;P56524;P49639;Q9BUX1;Q9UN36;P01100;Q9BZE0;O75382;P17405;Q14203;P37275;Q99767;Q9NYF0;Q9UI08}
- 28181 Pathogen[ P03383] interacts with 67 human partners: {O75920;Q16352;O14497;Q9HBD4;O96019;Q12824;O94805;Q9UJX6;Q9BUX1;Q96RL7;Q9UBB4;Q9NRI5;Q99608;Q86WG3;P49116;Q13875;P12036;P31749;P31040;P63172;Q14203;Q9NR56;Q99689;P60953;Q6STE5;P37275;Q15742;P15923;Q14738;Q14814;Q9UN36;Q96K30;O60220;Q92782;Q9Y3A2;Q12834;O75427;Q96GM5;P54252;A7MD48;P49639;Q969G3;Q92830;Q9HBH7;Q99081;Q12837;P51531;Q8TDN4;Q8TAQ2;Q96EK5;P01100;Q9NYF0;P56524;Q9UHY8;Q00577;Q9NY43;P51532;Q02410;Q96DF8;Q8NFD5;Q92922;Q2M1K9;O60481;Q8WXU2;P78352;Q02078}
- 28182 Pathogen[ P03410] interacts with 108 human partners: {Q92830;O14786;Q96EK5;Q96RL7;Q8WXU2;Q9UI08;P12036;P37275;O00139;Q9NXR1;Q8WUB8;Q9NPD7;Q9GZM8;Q8IZ21;O60481;Q96GM5;Q96K30;O14497;O96019;O75382;O75427;P54802;Q14814;Q16352;Q99608;P15884;Q496H8;Q9BUX1;Q9Y586;Q86WG3;P63172;Q9NR56;Q2M1K9;P31749;Q99767;Q99440;Q9Y287;P54252;P15923;Q8NFD5;Q92832;P01100;Q02410;Q00577;Q9Y2T3;Q99081;Q15486;O14531;Q969G3;Q01538;Q92782;Q9UN36;O94805;P56524;Q9HBH7;Q92922;P31040;Q9NZG7;O43379;P51532;Q6PUV4;Q9NYF0;Q66K74;P49639;Q12834;Q09666;Q13875;P51531;Q15102;P60953;Q14738;Q15742;Q9NRI5;P49116;Q8TAQ2;O75920;A7MD48;Q9NZ72;P17677;Q02078;Q92686;Q9UBY8;O60220;Q6ZP65;Q96DF8;Q14194;Q9Y3A2;Q9H8V3;Q8TD26;Q6STE5;Q12837;Q9UBB4;Q9UHY8;Q9NY43;Q12824;Q99426;Q9H488;Q13449;O95416;P78352;Q9HBD4;O94772;Q8TDN4;P40763;Q9UJX6;P17405;Q14203;Q99689}
- 28183 Pathogen[ P14075] interacts with 70 human partners: {P60953;Q96RL7;Q09666;Q02410;Q16352;Q86WG3;Q99608;Q15102;Q9HBD4;Q96GM5;O60481;Q92782;P51532;Q12837;P56524;Q92922;P31040;P63172;P15923;Q9UBB4;Q9NRI5;O14497;P54252;Q9UJX6;Q13875;P49116;P12036;O96019;P31749;Q9NY43;O75920;O00139;Q9HBH7;Q9NR56;Q96DF8;Q96K30;P51531;Q14738;Q9UN36;O60220;Q8TAQ2;Q9BUX1;Q02078;Q12824;Q15742;O94805;P01100;A7MD48;Q9UHY8;Q00577;P15884;P78352;Q8NFD5;Q14203;Q496H8;P37275;Q2M1K9;Q6STE5;Q9Y287;Q9Y3A2;Q99081;Q8TDN4;Q9NYF0;Q92830;O75427;Q14814;Q8WXU2;Q12834;Q96EK5;Q99689}
- 28184 Pathogen[ P0C206] interacts with 113 human partners: {Q13875;Q9BZE0;O60481;P78352;Q92830;Q9C0C7;P31749;Q01538;P17677;Q8TD26;Q9UBB4;Q8TDN4;Q9BUX1;Q9NY43;P51532;Q9UBP0;Q02078;Q9Y287;Q9Y4Z2;P51531;O75382;P49639;Q02548;Q9NR56;Q6STE5;Q8IUQ4;Q09666;O60220;Q96K30;Q92922;Q9UHY8;O14531;Q6ZP65;Q12824;Q9UI08;P49116;Q9Y586;Q8TAQ2;P54252;Q96HZ4;Q9GZM8;Q14738;Q66K74;O14786;O75920;Q15742;Q99689;Q12837;Q92782;O75427;Q99426;Q99767;O14497;P12036;O96019;Q92784;Q96DF8;Q99581;Q92686;O43379;Q693B1;Q99081;Q96EK5;P01100;P15923;Q9NZ72;Q15102;P15884;Q9NRI5;O95278;O95416;Q6PUV4;Q15486;Q99440;Q99608;P31040;Q9H8V3;Q9HBH7;P40763;P60953;O00139;Q2M1K9;Q9UJX6;Q13562;Q14194;O60315;Q9NPD7;P37275;Q8WUB8;Q96GM5;Q9NYF0;Q969G3;Q9HBD4;A7MD48;Q9NXR1;Q14814;Q8NFD5;Q9UN36;Q92832;O75398;P56524;Q8WXU2;Q16352;Q14203;P63172;Q86WG3;Q9Y3A2;Q12834;O94805;Q96RL7;Q00577;Q02410;Q9H2A3}
- 28185 Pathogen[ P03363] interacts with 113 human partners: {Q92886;P56179;Q9Y4Z2;P31040;Q96DF8;Q16352;Q66K74;O60481;P49116;O60315;Q6STE5;O14682;Q14194;Q13516;O14786;O43347;Q99929;P37275;Q8TAQ2;P51532;Q14738;P78352;Q9HBH7;Q96HZ4;Q9BUX1;O14497;Q9UN36;O60902;Q96K30;P54252;Q9NYF0;Q96RU3;Q9NR56;P49639;Q7L576;Q9UJX6;Q6ZP65;O75920;Q99608;P15923;Q2M1K9;Q9C0C7;Q92832;P20264;O96019;Q86WG3;P63172;Q9UHY8;Q9UI08;Q99426;Q14814;A6NJT0;P31749;Q92830;Q969G3;Q9UBB4;Q02410;Q9NZR1;Q9HBH7;Q92782;Q9HCC6;Q15742;O94805;Q96EK5;Q8WXU2;Q5XKR4;Q96NK8;O43379;Q8IWX8;O75382;Q13875;O14531;Q8TDN4;P52951;Q96RL7;Q09666;Q8TD26;Q9NRI5;P15884;O75398;Q96QS3;A2RU54;Q99581;O75427;Q9Y3A2;Q12834;Q96SQ7;Q02548;Q8NFD5;O95416;A7MD48;Q96GM5;Q99081;Q9NY43;P12036;Q9NXR1;Q9Y6R0;O00139;P51531;Q92922;Q00577;Q12837;P60953;Q14203;Q99767;Q9BZE0;Q12824;Q693B1;Q15102;Q99689;P01100;Q9H2A3;Q02078}
- 28186 [Cluster 2563]GO:000022+P biological\_process [name] mitotic spindle elongation [def] "Lengthening of the distance between poles of the mitotic spindle." [GOC
- 28187 Pathogen[ Q2Q067] interacts with 2 human partners: {O43663;Q02241}
- 28188 Pathogen[ P0C214] interacts with 2 human partners: {Q02241;O43663}

28189 Pathogen[ P03346] interacts with 2 human partners:{Q02241;O43663}  
28190 Pathogen[ Q85601] interacts with 2 human partners:{Q02241;O43663}  
28191 Pathogen[ P14079] interacts with 2 human partners:{Q02241;O43663}  
28192 Pathogen[ P03383] interacts with 2 human partners:{Q02241;O43663}  
28193 Pathogen[ P03410] interacts with 2 human partners:{Q02241;O43663}  
28194 Pathogen[ P14075] interacts with 2 human partners:{Q02241;O43663}  
28195 Pathogen[ P0C206] interacts with 2 human partners:{Q02241;O43663}  
28196 Pathogen[ P03363] interacts with 2 human partners:{Q02241;O43663}  
28197 [Cluster 2564]GO:0071850+P biological\_process [name] mitotic cell cycle arrest  
[def] "The process in which the mitotic cell cycle is halted during one of the normal  
phases (G1, S, G2, M)." [GOC  
28198 Pathogen[ Q2Q067] interacts with 7 human  
partners:{Q8TCS8;Q9H4X1;Q86UL8;P38936;Q8IXT1;P46527;Q66K89}  
28199 Pathogen[ P0C214] interacts with 6 human  
partners:{Q9H4X1;P46527;P38936;Q8IXT1;Q8TCS8;Q66K89}  
28200 Pathogen[ P03346] interacts with 7 human  
partners:{Q9H4X1;Q66K89;Q86UL8;Q8TCS8;Q8IXT1;P38936;P46527}  
28201 Pathogen[ Q85601] interacts with 6 human  
partners:{Q9H4X1;Q86UL8;Q8TCS8;Q66K89;P38936;P46527}  
28202 Pathogen[ P14079] interacts with 6 human  
partners:{Q8IXT1;P38936;Q66K89;Q86UL8;P46527;Q8TCS8}  
28203 Pathogen[ P03383] interacts with 5 human  
partners:{Q8IXT1;Q9H4X1;Q8TCS8;Q66K89;P46527}  
28204 Pathogen[ P03410] interacts with 7 human  
partners:{P46527;Q9H4X1;Q8TCS8;Q66K89;P38936;Q8IXT1;Q86UL8}  
28205 Pathogen[ P14075] interacts with 5 human  
partners:{Q9H4X1;Q8IXT1;P46527;Q66K89;Q8TCS8}  
28206 Pathogen[ P0C206] interacts with 7 human  
partners:{Q9H4X1;Q8TCS8;Q8IXT1;P46527;P38936;Q86UL8;Q66K89}  
28207 Pathogen[ P03363] interacts with 4 human partners:{Q9H4X1;Q66K89;Q86UL8;Q8IXT1}  
28208 [Cluster 2565]GO:0032925+P biological\_process [name] regulation of activin receptor  
signaling pathway [def] "Any process that modulates the frequency, rate or extent of  
the activity of any activin receptor signaling pathway." [GOC  
28209 Pathogen[ Q2Q067] interacts with 2 human partners:{O00255;O15105}  
28210 Pathogen[ P0C214] interacts with 2 human partners:{O15105;O00255}  
28211 Pathogen[ P03346] interacts with 2 human partners:{O15105;O00255}  
28212 Pathogen[ Q85601] interacts with 2 human partners:{O00255;O15105}  
28213 Pathogen[ P14079] interacts with 2 human partners:{O15105;O00255}  
28214 Pathogen[ P03383] interacts with 2 human partners:{O15105;O00255}  
28215 Pathogen[ P03410] interacts with 2 human partners:{O15105;O00255}  
28216 Pathogen[ P14075] interacts with 2 human partners:{O00255;O15105}  
28217 Pathogen[ P0C206] interacts with 2 human partners:{O00255;O15105}  
28218 Pathogen[ P03363] interacts with 1 human partners:{O15105}  
28219 [Cluster 2566]GO:0009890+P biological\_process [name] negative regulation of  
biosynthetic process [def] "Any process that stops, prevents, or reduces the rate of  
the chemical reactions and pathways resulting in the formation of substances." [GOC  
28220 Pathogen[ Q2Q067] interacts with 1 human partners:{P30047}  
28221 Pathogen[ P0C214] interacts with 1 human partners:{P30047}  
28222 Pathogen[ P03346] interacts with 1 human partners:{P30047}  
28223 Pathogen[ Q85601] interacts with 1 human partners:{P30047}  
28224 Pathogen[ P14079] interacts with 1 human partners:{P30047}  
28225 Pathogen[ P03383] interacts with 1 human partners:{P30047}  
28226 Pathogen[ P03410] interacts with 1 human partners:{P30047}  
28227 Pathogen[ P14075] interacts with 1 human partners:{P30047}  
28228 Pathogen[ P0C206] interacts with 1 human partners:{P30047}  
28229 Pathogen[ P03363] interacts with 1 human partners:{P30047}  
28230 [Cluster 2567]GO:0014013+P biological\_process [name] regulation of gliogenesis  
[def] "Any process that modulates the frequency, rate or extent of gliogenesis, the  
formation of mature glia." [GOC  
28231 Pathogen[ Q2Q067] interacts with 1 human partners:{Q15910}  
28232 Pathogen[ P0C214] interacts with 1 human partners:{Q15910}  
28233 Pathogen[ P03346] interacts with 1 human partners:{Q15910}  
28234 Pathogen[ Q85601] interacts with 1 human partners:{Q15910}  
28235 Pathogen[ P14079] interacts with 1 human partners:{Q15910}  
28236 Pathogen[ P03383] interacts with 1 human partners:{Q15910}  
28237 Pathogen[ P03410] interacts with 1 human partners:{Q15910}  
28238 Pathogen[ P14075] interacts with 1 human partners:{Q15910}  
28239 Pathogen[ P0C206] interacts with 1 human partners:{Q15910}  
28240 Pathogen[ P03363] interacts with 1 human partners:{Q15910}  
28241 [Cluster 2568]GO:0010800+P biological\_process [name] positive regulation of  
peptidyl-threonine phosphorylation [def] "Any process that increases the frequency,  
rate or extent of peptidyl-threonine phosphorylation. Peptidyl-threonine phosphorylation  
is the phosphorylation of peptidyl-threonine to form peptidyl-O-phospho-L-threonine."  
[GOC  
28242 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8WWQ0}  
28243 Pathogen[ P0C214] interacts with 1 human partners:{Q8WWQ0}

28244 Pathogen[ P03346] interacts with 1 human partners:{Q8WWQ0}  
28245 Pathogen[ Q85601] interacts with 1 human partners:{Q8WWQ0}  
28246 Pathogen[ P14079] interacts with 1 human partners:{Q8WWQ0}  
28247 Pathogen[ P03383] interacts with 1 human partners:{Q8WWQ0}  
28248 Pathogen[ P03410] interacts with 1 human partners:{Q8WWQ0}  
28249 Pathogen[ P14075] interacts with 1 human partners:{Q8WWQ0}  
28250 Pathogen[ P0C206] interacts with 1 human partners:{Q8WWQ0}  
28251 Pathogen[ P03363] interacts with 1 human partners:{Q8WWQ0}  
28252 [Cluster 2569]GO:2000327+P biological\_process [name] positive regulation of ligand-dependent nuclear receptor transcription coactivator activity [def] "Any process that activates or increases the frequency, rate or extent of ligand-dependent nuclear receptor transcription coactivator activity." [GOC  
28253 Pathogen[ Q2Q067] interacts with 2 human partners:{Q92600;Q9ULM6}  
28254 Pathogen[ P0C214] interacts with 2 human partners:{Q9ULM6;Q92600}  
28255 Pathogen[ P03346] interacts with 2 human partners:{Q9ULM6;Q92600}  
28256 Pathogen[ Q85601] interacts with 2 human partners:{Q92600;Q9ULM6}  
28257 Pathogen[ P14079] interacts with 2 human partners:{Q92600;Q9ULM6}  
28258 Pathogen[ P03383] interacts with 2 human partners:{Q92600;Q9ULM6}  
28259 Pathogen[ P03410] interacts with 2 human partners:{Q9ULM6;Q92600}  
28260 Pathogen[ P14075] interacts with 2 human partners:{Q9ULM6;Q92600}  
28261 Pathogen[ P0C206] interacts with 2 human partners:{Q92600;Q9ULM6}  
28262 Pathogen[ P03363] interacts with 2 human partners:{Q9ULM6;Q92600}  
28263 [Cluster 2570]GO:0006476+P biological\_process [name] protein deacetylation [def] "The removal of an acetyl group from a protein amino acid. An acetyl group is CH3CO-, derived from acetic [ethanoic] acid." [GOC  
28264 Pathogen[ Q2Q067] interacts with 6 human partners:{Q8IXJ6;Q13547;O15379;Q9NTG7;Q969S8;Q92769}  
28265 Pathogen[ P0C214] interacts with 6 human partners:{Q13547;Q969S8;Q9NTG7;Q92769;O15379;Q8IXJ6}  
28266 Pathogen[ P03346] interacts with 6 human partners:{Q969S8;O15379;Q8IXJ6;Q92769;Q13547;Q9NTG7}  
28267 Pathogen[ Q85601] interacts with 6 human partners:{Q969S8;Q8IXJ6;Q92769;O15379;Q13547;Q9NTG7}  
28268 Pathogen[ P14079] interacts with 5 human partners:{O15379;Q969S8;Q92769;Q8IXJ6;Q9NTG7}  
28269 Pathogen[ P03383] interacts with 5 human partners:{Q9NTG7;Q92769;O15379;Q13547;Q969S8}  
28270 Pathogen[ P03410] interacts with 6 human partners:{Q8IXJ6;Q9NTG7;Q969S8;Q92769;O15379;Q13547}  
28271 Pathogen[ P14075] interacts with 5 human partners:{Q969S8;Q13547;Q9NTG7;Q92769;O15379}  
28272 Pathogen[ P0C206] interacts with 6 human partners:{Q92769;Q13547;O15379;Q8IXJ6;Q9NTG7;Q969S8}  
28273 Pathogen[ P03363] interacts with 4 human partners:{O15379;Q969S8;Q13547;Q9NTG7}  
28274 [Cluster 2571]GO:0006370+P biological\_process [name] mRNA capping [def] "Addition of the 7-methylguanosine cap to the 5' end of a nascent messenger RNA transcript." [GOC  
28275 Pathogen[ Q2Q067] interacts with 25 human partners:{P52434;O00267;Q13889;P19388;P52435;P32780;P30876;P19387;P61218;Q92759;O43148;P62487;Q8N1G2;P51948;P50613;P13984;P62875;P24928;Q09161;P52298;P35269;P53803;Q9BTL3;Q13888;P51946}  
28276 Pathogen[ P0C214] interacts with 24 human partners:{P51946;Q09161;P30876;P53803;P35269;O00267;P50613;P52435;P61218;O43148;P52298;P62487;P51948;P62875;P13984;P32780;P24928;Q9BTL3;Q13888;Q8N1G2;P52434;P19387;P19388;Q92759}  
28277 Pathogen[ P03346] interacts with 25 human partners:{Q09161;P52434;Q9BTL3;Q13888;P53803;P61218;P52298;Q13889;P62487;P19388;O43148;P13984;P52435;P51946;P36954;Q8N1G2;O00267;Q92759;P30876;P35269;P24928;P51948;P32780;P62875;P19387}  
28278 Pathogen[ Q85601] interacts with 26 human partners:{P51946;P36954;O43148;Q8N1G2;Q13888;P53803;P61218;P51948;Q09161;P62487;P19388;P13984;Q92759;P32780;P52435;P35269;P50613;O00267;Q9BTL3;P19387;P24928;P52298;P30876;P52434;P19447;P62875}  
28279 Pathogen[ P14079] interacts with 28 human partners:{P62875;P19387;P35269;P51946;P62487;P52434;P52298;Q8N1G2;O15514;P30876;P61218;Q13889;P53803;O43148;P50613;Q13888;P19388;P52435;Q92759;Q9BTL3;P32780;P13984;P24928;O00267;P36954;P19447;Q09161;P51948}  
28280 Pathogen[ P03383] interacts with 24 human partners:{P53803;O43148;P35269;P51948;Q13888;P52434;P61218;O00267;Q09161;P62487;P19387;P50613;P13984;P51946;P24928;Q92759;P52298;P62875;P52435;Q9BTL3;P19388;P30876;P32780;Q8N1G2}  
28281 Pathogen[ P03410] interacts with 28 human partners:{P19387;Q13889;P36954;Q9BTL3;O00267;P24928;P51946;P30876;O15514;P50613;P52435;P52298;Q8N1G2;P53803;P19447;P62875;P35269;P61218;P51948;Q13888;P52434;P13984;P62487;Q09161;O43148;P19388;P32780;Q92759}  
28282 Pathogen[ P14075] interacts with 25 human partners:{Q8N1G2;Q09161;P13984;Q92759;P30876;P50613;P19388;P61218;P19387;P62487;Q138

89;P24928;P35269;Q9BTL3;P51946;P32780;O43148;P62875;O00267;P52434;P51948;P52298;P52435;P53803;Q13888}

28283 Pathogen[ POC206] interacts with 28 human partners: {P62875;P52298;P36954;Q09161;P19388;P61218;Q9BTL3;P13984;P19447;P53803;O15514;P35269;P19387;Q13888;P50613;Q92759;O00267;P52435;P62487;P32780;Q13889;P24928;O43148;Q8N1G2;P52434;P51946;P51948;P30876}

28284 Pathogen[ P03363] interacts with 21 human partners: {P19388;P13984;P30876;Q13888;P32780;Q92759;P19387;P61218;Q8N1G2;P51946;P24928;O00267;P35269;Q9BTL3;P52298;O43148;P62487;P53803;P52435;P52434;Q09161}

28285 [Cluster 2572]GO:0016584+P biological\_process [name] nucleosome positioning [def] "Ordering of successions of nucleosomes into regular arrays so that nucleosomes are positioned at defined distances from one another." [GOC

28286 Pathogen[ Q2Q067] interacts with 2 human partners: {Q96T23;P49711}

28287 Pathogen[ POC214] interacts with 3 human partners: {O60264;P49711;Q96T23}

28288 Pathogen[ P03346] interacts with 4 human partners: {O60264;P49711;Q96T23;P10412}

28289 Pathogen[ Q85601] interacts with 3 human partners: {Q96T23;P49711;O60264}

28290 Pathogen[ P14079] interacts with 4 human partners: {Q96T23;P10412;O60264;P49711}

28291 Pathogen[ P03383] interacts with 2 human partners: {P49711;Q96T23}

28292 Pathogen[ P03410] interacts with 4 human partners: {Q96T23;P10412;P49711;O60264}

28293 Pathogen[ P14075] interacts with 2 human partners: {P49711;Q96T23}

28294 Pathogen[ POC206] interacts with 4 human partners: {Q96T23;P49711;P10412;O60264}

28295 Pathogen[ P03363] interacts with 4 human partners: {P49711;O60264;Q96T23;P10412}

28296 [Cluster 2573]GO:0070544+P biological\_process [name] histone H3-K36 demethylation [def] "The modification of histone H3 by the removal of a methyl group from lysine at position 36 of the histone." [GOC

28297 Pathogen[ Q2Q067] interacts with 5 human partners: {Q9UPP1;Q8NHM5;O75164;Q9H6W3;Q8N371}

28298 Pathogen[ POC214] interacts with 5 human partners: {Q8N371;O75164;Q9H6W3;Q9UPP1;Q8NHM5}

28299 Pathogen[ P03346] interacts with 5 human partners: {O75164;Q9UPP1;Q8N371;Q8NHM5;Q9H6W3}

28300 Pathogen[ Q85601] interacts with 5 human partners: {Q8N371;Q9H6W3;Q8NHM5;Q9UPP1;O75164}

28301 Pathogen[ P14079] interacts with 4 human partners: {Q8NHM5;Q9H6W3;Q9UPP1;Q8N371}

28302 Pathogen[ P03383] interacts with 4 human partners: {Q9H6W3;O75164;Q8N371;Q9UPP1}

28303 Pathogen[ P03410] interacts with 4 human partners: {Q9UPP1;Q9H6W3;Q8N371;O75164}

28304 Pathogen[ P14075] interacts with 4 human partners: {Q8N371;Q9UPP1;Q9H6W3;O75164}

28305 Pathogen[ POC206] interacts with 5 human partners: {Q8N371;Q9UPP1;Q9H6W3;Q8NHM5;O75164}

28306 Pathogen[ P03363] interacts with 1 human partners: {O75164}

28307 [Cluster 2574]GO:1901214+P

28308 Pathogen[ Q2Q067] interacts with 1 human partners: {Q5EBL4}

28309 Pathogen[ POC214] interacts with 1 human partners: {Q5EBL4}

28310 Pathogen[ P03346] interacts with 1 human partners: {Q5EBL4}

28311 Pathogen[ Q85601] interacts with 1 human partners: {Q5EBL4}

28312 Pathogen[ P14079] interacts with 1 human partners: {Q5EBL4}

28313 Pathogen[ P03383] interacts with 1 human partners: {Q5EBL4}

28314 Pathogen[ P03410] interacts with 1 human partners: {Q5EBL4}

28315 Pathogen[ P14075] interacts with 1 human partners: {Q5EBL4}

28316 Pathogen[ POC206] interacts with 1 human partners: {Q5EBL4}

28317 Pathogen[ P03363] interacts with 1 human partners: {Q5EBL4}

28318 [Cluster 2575]GO:0008152+P biological\_process [name] metabolic process [def] "The chemical reactions and pathways, including anabolism and catabolism, by which living organisms transform chemical substances. Metabolic processes typically transform small molecules, but also include macromolecular processes such as DNA repair and replication, and protein synthesis and degradation." [GOC

28319 Pathogen[ Q2Q067] interacts with 54 human partners: {P04156;Q9ULD0;Q9H008;Q8N0Y7;P30793;P10515;P22033;P49419;P19367;Q9UIF7;P30084;Q969S2;Q8N8U2;Q9NQE9;Q96AB3;Q63HM1;Q8NFI3;P22557;P35573;P21953;P13196;Q9NZC7;P60174;Q16851;Q7Z7K6;Q9BSH5;Q16222;P54840;P09467;P18669;Q16719;O43598;P13807;P07814;O15527;P12956;Q9P2R7;P15259;Q13363;Q9Y697;P78549;P07738;P21399;Q13569;Q9BPX1;Q7Z4H3;Q8WWR8;P13051;P11172;Q14689;Q96JJ3;O43708;Q53HV7;P48200}

28320 Pathogen[ POC214] interacts with 103 human partners: {Q9BSH5;Q8WWR8;P30084;Q14527;P49419;P09417;Q9Y617;O60346;Q13363;Q8NFI3;P11177;P49902;P15259;Q7Z4H3;Q96GK7;P53396;Q16222;P12694;P07814;P42898;Q9H227;Q53HV7;P29401;Q14689;P11172;P35270;P48200;Q9Y232;Q8N819;P40939;Q9Y3R4;O95396;P22557;P51854;P35573;P13196;Q8WXG1;Q9BXD5;Q13057;Q9Y3Z3;Q9NZC7;Q99798;Q9P2R7;O60825;P50747;Q8N8U2;P30793;P09467;Q13011;Q96AT9;P22033;P14618;Q9Y697;P21953;Q16851;Q63HM1;Q6P587;Q86XE5;Q9UIF7;P9BWD1;O15382;P19367;Q96AB3;Q9ULD0;Q9BPX1;O43598;Q9UHY7;Q7Z7K6;P23921;P54687;Q9NQE9;P04156;P54840;Q96I99;Q8N0Y7;P42765;O15305;P78549;Q96BT7;O76083;Q9NWZ5;Q96GD0;P16118;Q9H008;P60174;P35520;O43708;O15527;P07738;Q13569;P21399;P10515;Q96JJ3;Q8NFF5;O00757;P13807;P31939;P11586;P12956;P13051;P36957;Q16719;P16278}

28321 Pathogen[ P03346] interacts with 63 human partners: {Q9Y3Z3;Q96AB3;O60346;P13807;P12956;O43598;Q9NQE9;P07814;Q9BPX1;Q14527;P07738;P19367;Q63HM1;Q9ULD0;Q16222;P60174;Q9UIF7;Q9Y697;P09467;P22557;P35573;P13196;Q96JJ3;Q8N8U2;Q8NFI3;P45381;Q969S2;P16278;Q53HV7;P18669;P49419;Q16851;Q8WVB3;Q8N0Y7;Q7Z4

- H3;Q9BWD1;Q9NZC7;P13051;P48200;Q7Z7K6;Q9UHY7;Q16719;O43708;Q96BT7;P78549;P54840;Q13569;P42765;P15259;P04156;Q13363;Q8WWR8;Q9Y232;P56545;P11172;P21399;P10515;O15527;Q9H008;Q9NWZ5;Q14689;P30084;Q9BSH5}
- 28322 Pathogen[ Q85601] interacts with 62 human  
partners: {Q9NZC7;O15527;O43598;P60174;O60346;P13807;Q7Z4H3;Q7Z7K6;O43708;Q14689;Q969S2;P13051;P21399;Q16719;P07814;Q9BXP1;P18669;Q9Y697;P11172;O60825;Q9BXD5;P48200;Q8N8U2;O00757;Q13363;P13196;P21953;Q96JJ3;Q9H008;Q9P2R7;P16118;Q96FI4;P15259;P30793;Q63HM1;Q16222;Q16851;P35573;P14618;Q96AB3;Q53HV7;P22033;Q9BSH5;Q13569;P09467;Q9UIF7;P04156;Q9UHY7;P54840;Q9BWD1;Q8N0Y7;P78549;P07738;Q14527;P10515;Q9ULD0;P30084;O15382;P49419;Q9NQE9;P12956;P19367}
- 28323 Pathogen[ P14079] interacts with 110 human  
partners: {P51854;Q8NBV4;P15259;Q6P587;Q8TAT5;P16278;P21953;P13196;O95544;Q9UIF7;Q8NFF5;Q96KP4;Q16222;Q96AB3;O15305;Q16851;P04066;P22234;P31939;Q9Y617;Q8N8W4;P04156;P21399;P13807;Q63HM1;P54802;Q4G0N4;P35475;O43598;Q9H008;Q9NWZ5;P11172;Q9NTJ4;P22557;P29401;O43813;P30084;O43708;O60346;O95954;Q32NB8;Q9P2R7;Q96JJ3;Q8NFI3;O15527;P78549;Q8TDX5;P30793;Q96GD0;P07738;P06280;Q69YN2;P12956;P54803;Q9Y3Z3;Q96HD9;Q9NZC7;Q32M88;Q16719;Q9BSH5;O60502;Q13057;P45381;P35573;Q9Y697;P48200;Q969S2;P16930;Q8N8U2;Q96FI4;P22033;Q14689;Q96GK7;Q2TBE0;P49902;Q8WWR8;Q9BXD5;Q9Y3R4;Q9HAC7;Q53HV7;P17050;P10515;Q7Z6Z6;P18669;Q9NS86;P49773;P09467;Q9BXW7;E5RQL4;Q13569;O15382;P54840;Q86XE5;Q6ZV70;Q96PZ2;Q8WVB3;P17405;Q03154;Q8N0Y7;P07814;Q9NQE9;P13051;Q8IYS1;Q7Z7K6;Q9ULD0;Q8WXG1;P42898;Q6P2I3;O15503;Q7Z4H3}
- 28324 Pathogen[ P03383] interacts with 36 human  
partners: {P04156;Q9NWZ5;P19367;O15527;Q53HV7;P18669;Q9P2R7;P13807;P09467;P48200;Q63HM1;P35573;O43598;Q7Z7K6;Q9Y697;Q9ULD0;Q16719;P07738;Q16851;Q96AB3;P07814;P22033;Q8N0Y7;Q13569;Q9BSH5;P10515;Q8WWR8;P54840;P11172;P13051;P15259;Q13363;P49419;P12956;Q9BXP1;Q9H008}
- 28325 Pathogen[ P03410] interacts with 114 human  
partners: {P54803;Q9P2R7;Q9NS86;Q96HD9;P30084;Q96FI4;Q2TBE0;Q4G0N4;Q96AB3;Q8NFI3;P04066;Q16851;Q9BXP1;Q9ULD0;Q8NFF5;P54840;Q96PZ2;Q13057;P16118;Q13011;Q69YN2;O60502;Q9BXW7;P54802;Q16719;Q16222;Q9NZC7;O95954;P12694;P35573;Q9BXD5;P16278;Q9NWZ5;Q14689;P45381;P11172;P21953;Q9Y697;Q6P2I3;P30793;Q9Y617;Q8TAT5;P09467;E5RQL4;Q53HV7;Q8WXG1;O00757;P42765;Q7Z7K6;P22234;O43708;Q96GD0;P22557;O75600;P12956;Q63HM1;Q8TDX5;P49773;Q9NTJ4;P21399;P07738;Q9BSH5;O15527;O15382;Q13569;Q9BYC2;P13807;P49419;P55809;P42898;Q8N0Y7;P04156;P15259;P31939;Q86XE5;Q9H008;P18669;Q96CN7;O15305;Q6ZV70;Q7Z4H3;P51854;P63135;O60346;Q9NQE9;Q8WVB3;Q8N8W4;Q8N8U2;Q969S2;P07814;Q9Y3R4;P13051;P48200;Q32M88;Q9Y3Z3;P16930;Q7Z6Z6;O15503;P23921;P13196;P10515;Q96JJ3;Q6P587;O43598;P17405;Q8WWR8;Q9UIF7;P49902;P22033;Q8NBV4;Q9NQ88;Q96GK7;Q16635}
- 28326 Pathogen[ P14075] interacts with 44 human  
partners: {P13051;Q9NQE9;Q16719;P12956;P49902;Q9NWZ5;P11172;Q86XE5;O43598;Q8WWR8;O15527;Q53HV7;P18669;P04156;P19367;Q9UIF7;P54840;Q9BXD5;Q13057;Q9BSH5;P16118;P49419;P22033;Q63HM1;Q96AB3;Q9H008;P35573;P10515;Q9ULD0;Q7Z7K6;P15259;P13807;Q13363;P48200;Q8NFI3;P30793;Q13569;P07738;P09467;Q16851;Q8N0Y7;P07814;Q9P2R7;Q9Y697}
- 28327 Pathogen[ P0C206] interacts with 88 human  
partners: {O43598;Q16851;Q9Y232;P07814;P51854;Q9NQE9;Q16222;P60174;P04156;O15527;Q9ULD0;O15382;Q13057;P09467;Q9Y697;Q8N8U2;Q7Z4H3;P21953;Q9P2R7;P49902;Q9NWZ5;P31939;P30793;P19367;Q8NFI3;P48200;P13807;Q53HV7;O95954;P54840;P11172;Q13569;Q9BXP1;Q6P587;Q9Y3R4;P30084;Q16719;Q86XE5;Q8WVB3;O43708;Q9UHY7;P22557;P45381;Q8TAT5;Q7Z7K6;O00757;Q96JJ3;Q6PIY2;Q8N0Y7;Q9BWD1;Q96FI4;Q96AB3;Q9H008;Q14527;O60825;Q9BSH5;Q63HM1;Q969S2;Q8WWR8;P16278;Q9NZC7;P16118;Q96GD0;P49419;O60346;Q14689;Q99798;P13196;Q13363;Q9NS86;P07738;Q8WXG1;Q9BXD5;P13051;P22033;P12956;Q96GK7;P10515;Q9UIF7;Q8NBV4;P21399;P18669;O95396;P14618;P15259;P29401;P35573;P78549}
- 28328 Pathogen[ P03363] interacts with 49 human  
partners: {P12956;P49419;Q7Z7K6;P13807;O15527;Q6PIY2;Q9NWZ5;Q16222;P18669;Q16851;Q96AB3;Q9ULD0;Q96BT7;Q9BWD1;Q96FI4;P56545;P13051;P48200;P11172;P04156;Q14689;Q9Y697;Q63HM1;Q7Z4H3;Q9BXP1;Q14527;Q9BSH5;Q8N0Y7;Q8NFI3;Q9UIF7;P54840;Q9H008;Q9Y3Z3;Q13569;P10515;Q9NQE9;P13196;Q96JJ3;Q8WVB3;Q13363;P07814;P35573;O43708;O43598;Q969S2;P15259;Q53HV7;Q9BXD5;Q8N8U2}
- 28329 [Cluster 2576]GO:0000910+P biological\_process [name] cytokinesis [def] "A cellular process resulting in the division of the cytoplasm of a cell and its separation into two daughter cells. Cytokinesis usually occurs after growth, replication, and segregation of cellular components." [GOC
- 28330 Pathogen[ Q2Q067] interacts with 24 human  
partners: {Q9Y266;Q9NQW6;O43663;Q14674;Q9H1H9;Q8N137;O75935;Q8WYP5;Q14457;P23528;Q68DK2;Q9NQS7;O43236;Q9UN37;Q13618;Q02241;Q53EZ4;Q9Y3E7;Q6DKK2;O75154;P35579;P18583;O15392;Q9BXF3}
- 28331 Pathogen[ P0C214] interacts with 21 human  
partners: {Q14457;O75935;Q02241;Q6DKK2;Q9UJP4;Q8WYP5;Q13618;Q9Y266;P18583;O43663;Q53EZ4;Q9Y3E7;Q9BXF3;O15392;Q9NQS7;Q68DK2;Q9UN37;O43236;O75154;Q8N137;Q14674}
- 28332 Pathogen[ P03346] interacts with 31 human  
partners: {Q9P2N7;Q9NQW6;Q9BXF3;O15392;P35579;O75935;Q8N137;Q8WYP5;Q13618;Q9NQY0;Q14141;Q9H1H9;P18583;Q14457;Q9Y266;Q9Y3E7;O43236;Q53EZ4;Q9NQS7;Q68DK2;Q02241;P36405;Q9P2J3;Q86YS3;P23528;O75154;Q9UJP4;O43663;Q14674;Q6DKK2;Q9UN37}
- 28333 Pathogen[ Q85601] interacts with 28 human  
partners: {Q53EZ4;Q14457;Q8N137;O75154;Q02241;Q9NQW6;Q9BXF3;P36405;Q9NQS7;P35579;Q86YS3;O75935;Q8WYP5;Q9H1H9;O15392;Q14674;Q9UJP4;O43663;Q9Y266;Q6DKK2;Q68DK2;Q9P2J3;P18583;P23528;Q13618;Q9UN37;Q9Y3E7;O43236}

28334 Pathogen[ P14079] interacts with 29 human partners: {Q9NQW6;P35579;Q68DK2;Q13618;Q02241;O15392;Q9Y266;Q86YS3;Q14674;P36405;O43663;Q8WYP5;P23528;Q9BXF3;Q9H1H9;Q6DKK2;Q9UN37;Q9NQS7;Q9Y3E7;Q8N137;O75154;Q9UJP4;Q9BZX4;O95235;Q14457;P18583;O75935;Q53EZ4;O43236}

28335 Pathogen[ P03383] interacts with 22 human partners: {Q14457;Q9NQS7;Q68DK2;Q02241;O43236;Q9Y3E7;Q8WYP5;Q13618;Q9H1H9;P18583;Q14674;Q6DKK2;O75935;Q9Y266;Q8N137;P35579;P23528;O43663;Q9BXF3;Q9UN37;Q53EZ4;O75154}

28336 Pathogen[ P03410] interacts with 30 human partners: {O15392;O75154;Q9H1H9;Q9BXF3;P36405;Q14457;Q9BZX4;P35579;Q8N137;Q6DKK2;Q9NQW6;Q14674;Q9NQY0;Q9P2J3;Q86YS3;Q9Y3E7;Q13618;O43236;Q9UN37;P18583;O75935;Q53EZ4;Q9Y266;Q9UJP4;P23528;Q68DK2;Q8WYP5;Q02241;O43663;Q9NQS7}

28337 Pathogen[ P14075] interacts with 22 human partners: {Q14457;Q9Y266;Q9H1H9;Q02241;O43663;Q13618;O43236;Q9NQS7;Q8WYP5;Q9Y3E7;P23528;Q68DK2;O75935;Q8N137;P35579;Q53EZ4;Q14674;O75154;Q9BXF3;P18583;Q6DKK2;Q9UN37}

28338 Pathogen[ P0C206] interacts with 31 human partners: {Q68DK2;Q9P2N7;Q8N137;Q8WYP5;Q9UN37;Q9Y3E7;P18583;O75154;Q9NQW6;Q14457;Q9H1H9;Q14141;Q02241;O43236;Q9UJP4;Q6DKK2;Q9BXF3;Q13618;Q9P2J3;O43663;P35579;O15392;Q9NQY0;P36405;Q14674;Q16181;Q9NQS7;O75935;Q86YS3;P23528;Q9Y266}

28339 Pathogen[ P03363] interacts with 29 human partners: {P35579;Q8WYP5;Q9NQW6;Q14457;Q9P2N7;Q9Y266;Q13618;Q02241;Q68DK2;Q9BXF3;Q9UN37;Q53EZ4;P18583;Q6DKK2;Q9NQS7;O75935;Q9Y3E7;P23528;Q14674;O75154;Q9P2J3;Q9UJP4;Q9NQY0;Q9H1H9;O43663;Q14141;Q99719;O43236;Q8N137}

28340 [Cluster 2577]GO:0006893+P biological\_process [name] Golgi to plasma membrane transport [def] "The directed movement of substances from the Golgi to the plasma membrane in transport vesicles that move from the trans-Golgi network to the plasma membrane, where they fuse and release their contents by exocytosis." [ISBN

28341 Pathogen[ Q2Q067] interacts with 1 human partners: {Q96QF0}

28342 Pathogen[ P0C214] interacts with 2 human partners: {Q9HD26;Q96QF0}

28343 Pathogen[ P03346] interacts with 3 human partners: {Q9Y6D5;Q9HD26;Q96QF0}

28344 Pathogen[ Q85601] interacts with 2 human partners: {Q9HD26;Q96QF0}

28345 Pathogen[ P14079] interacts with 3 human partners: {Q9Y6D5;Q9HD26;Q96QF0}

28346 Pathogen[ P03383] interacts with 2 human partners: {Q96QF0;Q9HD26}

28347 Pathogen[ P03410] interacts with 3 human partners: {Q9HD26;Q9Y6D5;Q96QF0}

28348 Pathogen[ P14075] interacts with 2 human partners: {Q9HD26;Q96QF0}

28349 Pathogen[ P0C206] interacts with 3 human partners: {Q96QF0;Q9Y6D5;Q9HD26}

28350 Pathogen[ P03363] interacts with 2 human partners: {Q9HD26;Q96QF0}

28351 [Cluster 2578]GO:0007093+P biological\_process [name] mitotic cell cycle checkpoint [def] "A cell cycle checkpoint that ensures accurate chromosome replication and segregation by preventing progression through a mitotic cell cycle until conditions are suitable for the cell to proceed to the next stage." [GOC

28352 Pathogen[ Q2Q067] interacts with 12 human partners: {Q9Y4A5;Q15013;Q7Z2Z1;Q13257;O43264;P50748;Q96EP1;Q92733;O75943;Q9Y6D9;Q9H900;O95229}

28353 Pathogen[ P0C214] interacts with 12 human partners: {Q13257;O43264;Q15013;P50748;O95229;Q92733;O75943;Q9Y4A5;Q9H900;Q7Z2Z1;Q9Y6D9;Q96EP1}

28354 Pathogen[ P03346] interacts with 12 human partners: {Q9Y6D9;O95229;Q7Z2Z1;Q15013;O43264;O75943;Q9Y4A5;Q92733;P50748;Q13257;Q96EP1;Q9H900}

28355 Pathogen[ Q85601] interacts with 12 human partners: {O95229;Q7Z2Z1;Q9H900;Q92733;Q9Y4A5;O43264;Q13257;O75943;Q15013;Q9Y6D9;P50748;Q96EP1}

28356 Pathogen[ P14079] interacts with 10 human partners: {Q9Y4A5;O95229;Q15013;Q9H900;O75943;Q13257;O43264;P50748;Q7Z2Z1;Q92733}

28357 Pathogen[ P03383] interacts with 11 human partners: {Q13257;Q9H900;Q15013;O43264;Q9Y4A5;Q92733;O95229;Q7Z2Z1;Q96EP1;Q9Y6D9;P50748}

28358 Pathogen[ P03410] interacts with 11 human partners: {O75943;Q15013;P50748;O43264;Q9Y4A5;Q7Z2Z1;Q9H900;O95229;Q92733;Q96EP1;Q13257}

28359 Pathogen[ P14075] interacts with 11 human partners: {Q7Z2Z1;Q9Y6D9;Q13257;Q9Y4A5;O95229;Q15013;Q9H900;P50748;O43264;Q92733;Q96EP1}

28360 Pathogen[ P0C206] interacts with 12 human partners: {Q9H900;Q9Y6D9;Q92733;Q96EP1;Q13257;O75943;Q9Y4A5;Q15013;Q7Z2Z1;P50748;O43264;O95229}

28361 Pathogen[ P03363] interacts with 12 human partners: {Q96EP1;Q9Y6D9;O95229;Q7Z2Z1;O43264;P50748;Q9H900;Q13257;Q15013;Q9Y4A5;Q92733;O75943}

28362 [Cluster 2579]GO:0071359+P biological\_process [name] cellular response to dsRNA [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a double-stranded RNA stimulus." [GOC

28363 Pathogen[ Q2Q067] interacts with 2 human partners: {Q14653;P10914}

28364 Pathogen[ P0C214] interacts with 2 human partners: {P10914;Q14653}

28365 Pathogen[ P03346] interacts with 2 human partners: {P10914;Q14653}

28366 Pathogen[ Q85601] interacts with 2 human partners:{P10914;Q14653}  
28367 Pathogen[ P14079] interacts with 2 human partners:{Q14653;P10914}  
28368 Pathogen[ P03383] interacts with 2 human partners:{P10914;Q14653}  
28369 Pathogen[ P03410] interacts with 2 human partners:{Q14653;P10914}  
28370 Pathogen[ P14075] interacts with 2 human partners:{Q14653;P10914}  
28371 Pathogen[ P0C206] interacts with 2 human partners:{P10914;Q14653}  
28372 Pathogen[ P03363] interacts with 2 human partners:{Q14653;P10914}  
28373 [Cluster 2580]GO:0033014+P biological\_process [name] tetrapyrrole biosynthetic process  
[def] "The chemical reactions and pathways leading to the formation of tetrapyrroles,  
natural pigments containing four pyrrole rings joined by one-carbon units linking  
position 2 of one pyrrole ring to position 5 of the next." [CHEBI  
28374 Pathogen[ Q2Q067] interacts with 4 human partners:{P10746;P22557;P13196;P08397}  
28375 Pathogen[ P0C214] interacts with 4 human partners:{P22557;P13196;P10746;P08397}  
28376 Pathogen[ P03346] interacts with 3 human partners:{P10746;P22557;P13196}  
28377 Pathogen[ Q85601] interacts with 3 human partners:{P10746;P13196;P08397}  
28378 Pathogen[ P14079] interacts with 4 human partners:{P13196;P22557;P10746;P08397}  
28379 Pathogen[ P03383] interacts with 1 human partners:{P08397}  
28380 Pathogen[ P03410] interacts with 4 human partners:{P08397;P10746;P22557;P13196}  
28381 Pathogen[ P14075] interacts with 1 human partners:{P08397}  
28382 Pathogen[ P0C206] interacts with 4 human partners:{P10746;P22557;P13196;P08397}  
28383 Pathogen[ P03363] interacts with 1 human partners:{P13196}  
28384 [Cluster 2581]GO:0022408+P biological\_process [name] negative regulation of cell-cell  
adhesion [def] "Any process that stops, prevents or reduces the rate or extent of  
cell adhesion to another cell." [GOC  
28385 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9BZE4;P27986}  
28386 Pathogen[ P0C214] interacts with 2 human partners:{Q9BZE4;P27986}  
28387 Pathogen[ P03346] interacts with 2 human partners:{Q9BZE4;P27986}  
28388 Pathogen[ Q85601] interacts with 2 human partners:{Q9BZE4;P27986}  
28389 Pathogen[ P14079] interacts with 1 human partners:{Q9BZE4}  
28390 Pathogen[ P03383] interacts with 2 human partners:{P27986;Q9BZE4}  
28391 Pathogen[ P03410] interacts with 3 human partners:{P27986;Q8NHY0;Q9BZE4}  
28392 Pathogen[ P14075] interacts with 2 human partners:{P27986;Q9BZE4}  
28393 Pathogen[ P0C206] interacts with 2 human partners:{P27986;Q9BZE4}  
28394 Pathogen[ P03363] interacts with 2 human partners:{Q9BZE4;P27986}  
28395 [Cluster 2582]GO:0016064+P biological\_process [name] immunoglobulin mediated immune  
response [def] "An immune response mediated by immunoglobulins, whether cell-bound or  
in solution." [GO\_REF  
28396 Pathogen[ Q2Q067] interacts with 2 human partners:{Q92985;O95999}  
28397 Pathogen[ P0C214] interacts with 2 human partners:{Q92985;O95999}  
28398 Pathogen[ P03346] interacts with 2 human partners:{O95999;Q92985}  
28399 Pathogen[ Q85601] interacts with 2 human partners:{Q92985;O95999}  
28400 Pathogen[ P14079] interacts with 3 human partners:{O95999;Q92985;Q99836}  
28401 Pathogen[ P03383] interacts with 2 human partners:{Q92985;O95999}  
28402 Pathogen[ P03410] interacts with 2 human partners:{O95999;Q92985}  
28403 Pathogen[ P14075] interacts with 2 human partners:{O95999;Q92985}  
28404 Pathogen[ P0C206] interacts with 2 human partners:{O95999;Q92985}  
28405 Pathogen[ P03363] interacts with 1 human partners:{Q92985}  
28406 [Cluster 2583]GO:0051493+P biological\_process [name] regulation of cytoskeleton  
organization [def] "Any process that modulates the frequency, rate or extent of the  
formation, arrangement of constituent parts, or disassembly of cytoskeletal structures."  
[GOC  
28407 Pathogen[ Q2Q067] interacts with 2 human partners:{P63172;Q8N1N5}  
28408 Pathogen[ P0C214] interacts with 1 human partners:{P63172}  
28409 Pathogen[ P03346] interacts with 3 human partners:{O75592;Q8N1N5;P63172}  
28410 Pathogen[ Q85601] interacts with 1 human partners:{P63172}  
28411 Pathogen[ P14079] interacts with 3 human partners:{P63172;Q8N1N5;Q9NZ72}  
28412 Pathogen[ P03383] interacts with 2 human partners:{P63172;Q8N1N5}  
28413 Pathogen[ P03410] interacts with 3 human partners:{Q8N1N5;P63172;Q9NZ72}  
28414 Pathogen[ P14075] interacts with 2 human partners:{P63172;Q8N1N5}  
28415 Pathogen[ P0C206] interacts with 3 human partners:{Q9NZ72;Q8N1N5;P63172}  
28416 Pathogen[ P03363] interacts with 2 human partners:{Q8N1N5;P63172}  
28417 [Cluster 2584]GO:0035878+P biological\_process [name] nail development [def] "The  
process whose specific outcome is the progression of a nail over time, from its  
formation to the mature structure. A nail is a horn-like envelope covering the outer end  
of a finger or toe, and consists of the nail plate, the nail matrix and the nail bed  
below it, and the grooves surrounding it." [GOC  
28418 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NSB2}  
28419 Pathogen[ P0C214] interacts with 1 human partners:{Q9NSB2}  
28420 Pathogen[ P03346] interacts with 1 human partners:{Q9NSB2}  
28421 Pathogen[ Q85601] interacts with 1 human partners:{Q9NSB2}  
28422 Pathogen[ P14079] interacts with 1 human partners:{Q9NSB2}  
28423 Pathogen[ P03383] interacts with 1 human partners:{Q9NSB2}  
28424 Pathogen[ P03410] interacts with 1 human partners:{Q9NSB2}  
28425 Pathogen[ P14075] interacts with 1 human partners:{Q9NSB2}  
28426 Pathogen[ P0C206] interacts with 1 human partners:{Q9NSB2}  
28427 Pathogen[ P03363] interacts with 1 human partners:{Q9NSB2}



28428 [Cluster 2585]GO:0001836+P biological\_process [name] release of cytochrome c from mitochondria [def] "The process that results in the movement of cytochrome c from the mitochondrial intermembrane space into the cytosol, which is an early step in apoptosis and leads to caspase activation." [GOC

28429 Pathogen[ Q2Q067] interacts with 6 human partners: {P55957;Q9BXH1;O15350;Q13794;Q9GZY8;P84022}

28430 Pathogen[ P0C214] interacts with 12 human partners: {O15350;P84022;P55957;Q13794;O75223;Q9BXH1;P42574;P05412;P10909;Q3ZCQ8;P55210;Q9GZY8}

28431 Pathogen[ P03346] interacts with 10 human partners: {P05412;P55957;P42574;O15350;P84022;Q3ZCQ8;P55210;Q9BXH1;Q9GZY8;Q13794}

28432 Pathogen[ Q85601] interacts with 9 human partners: {Q9BXH1;P55957;P05412;Q3ZCQ8;P84022;O15350;Q9GZY8;Q13794;P55210}

28433 Pathogen[ P14079] interacts with 11 human partners: {Q3ZCQ8;O75223;P09912;P10909;O15350;Q9BXH1;P55210;Q13794;Q9GZY8;P05412;P55957}

28434 Pathogen[ P03383] interacts with 7 human partners: {P55957;P84022;O15350;Q13794;Q9BXH1;Q9GZY8;P05412}

28435 Pathogen[ P03410] interacts with 12 human partners: {P84022;Q9GZY8;Q9BXH1;P09912;Q13794;P55957;Q3ZCQ8;P05412;O15350;O75223;P10909;P55210}

28436 Pathogen[ P14075] interacts with 7 human partners: {P55957;P05412;Q9GZY8;O15350;Q9BXH1;Q13794;P84022}

28437 Pathogen[ P0C206] interacts with 11 human partners: {P84022;P05412;Q9BXH1;Q3ZCQ8;P10909;P42574;O15350;Q9GZY8;P55210;P55957;Q13794}

28438 Pathogen[ P03363] interacts with 8 human partners: {P55957;Q13794;Q3ZCQ8;P84022;P05412;P55210;Q9BXH1;Q9GZY8}

28439 [Cluster 2586]GO:0070206+P biological\_process [name] protein trimerization [def] "The formation of a protein trimer, a macromolecular structure consisting of three noncovalently associated identical or nonidentical subunits." [GOC

28440 Pathogen[ Q2Q067] interacts with 3 human partners: {P19474;P14373;Q9C035}

28441 Pathogen[ P0C214] interacts with 3 human partners: {P19474;Q9C035;P14373}

28442 Pathogen[ P03346] interacts with 4 human partners: {P14373;Q9C035;Q8IYM9;P19474}

28443 Pathogen[ Q85601] interacts with 4 human partners: {P14373;Q8IYM9;Q9C035;P19474}

28444 Pathogen[ P14079] interacts with 3 human partners: {P14373;Q9C035;P19474}

28445 Pathogen[ P03383] interacts with 2 human partners: {P19474;Q9C035}

28446 Pathogen[ P03410] interacts with 1 human partners: {Q9C035}

28447 Pathogen[ P14075] interacts with 2 human partners: {P19474;Q9C035}

28448 Pathogen[ P0C206] interacts with 4 human partners: {Q9C035;Q8IYM9;P14373;P19474}

28449 Pathogen[ P03363] interacts with 3 human partners: {P14373;P19474;Q9C035}

28450 [Cluster 2587]GO:0051083+P biological\_process [name] 'de novo' cotranslational protein folding [def] "The process of assisting in the correct noncovalent assembly of the ribosome-bound nascent chains of a multidomain protein whilst other parts of the protein are still being translated." [GOC

28451 Pathogen[ Q2Q067] interacts with 2 human partners: {Q0VDF9;Q99543}

28452 Pathogen[ P0C214] interacts with 2 human partners: {Q99543;Q0VDF9}

28453 Pathogen[ P03346] interacts with 2 human partners: {Q99543;Q0VDF9}

28454 Pathogen[ Q85601] interacts with 2 human partners: {Q99543;Q0VDF9}

28455 Pathogen[ P14079] interacts with 2 human partners: {Q0VDF9;Q99543}

28456 Pathogen[ P03383] interacts with 1 human partners: {Q99543}

28457 Pathogen[ P03410] interacts with 2 human partners: {Q0VDF9;Q99543}

28458 Pathogen[ P14075] interacts with 1 human partners: {Q99543}

28459 Pathogen[ P0C206] interacts with 2 human partners: {Q0VDF9;Q99543}

28460 Pathogen[ P03363] interacts with 2 human partners: {Q99543;Q0VDF9}

28461 [Cluster 2588]GO:0051693+P biological\_process [name] actin filament capping [def] "The binding of a protein or protein complex to the end of an actin filament, thus preventing the addition, exchange or removal of further actin subunits." [ISBN

28462 Pathogen[ Q2Q067] interacts with 3 human partners: {Q01082;P06396;P40121}

28463 Pathogen[ P0C214] interacts with 3 human partners: {P40121;P06396;Q01082}

28464 Pathogen[ P03346] interacts with 7 human partners: {P02549;P11277;Q08495;Q13813;Q01082;P40121;P06396}

28465 Pathogen[ Q85601] interacts with 3 human partners: {P06396;Q01082;P40121}

28466 Pathogen[ P14079] interacts with 13 human partners: {P09327;Q08495;Q01082;P47756;P40121;Q9Y6U3;O15195;Q96KX2;P11277;O75366;Q13813;P02549;P35241}

28467 Pathogen[ P03383] interacts with 1 human partners: {P06396}

28468 Pathogen[ P03410] interacts with 11 human partners: {Q96KX2;P47756;P06396;Q9Y6U3;P02549;Q08495;Q01082;P35241;P40121;Q13813;P11277}

28469 Pathogen[ P14075] interacts with 1 human partners: {P06396}

28470 Pathogen[ P0C206] interacts with 6 human partners: {Q01082;P06396;P47756;P40121;Q08495;P11277}

28471 Pathogen[ P03363] interacts with 7 human partners: {P11277;P02549;Q01082;Q08495;P06396;Q13813;P40121}

28472 [Cluster 2589]GO:0007090+P biological\_process [name] regulation of S phase of mitotic

cell cycle [def] "A cell cycle process that modulates the frequency, rate or extent of the progression through the S phase of the mitotic cell cycle." [GOC

28473 Pathogen[ Q2Q067] interacts with 6 human partners:{P18754;Q9H0C8;P06400;Q01664;Q9H211;P68036}

28474 Pathogen[ P0C214] interacts with 5 human partners:{Q9H211;Q9H0C8;P18754;Q01664;P06400}

28475 Pathogen[ P03346] interacts with 7 human partners:{Q9H0C8;P68036;P06400;P18754;P51587;Q9H211;Q01664}

28476 Pathogen[ Q85601] interacts with 7 human partners:{Q9H0C8;P06400;P68036;P18754;Q9H211;Q01664;P51587}

28477 Pathogen[ P14079] interacts with 6 human partners:{P68036;Q9H211;P51587;Q9H0C8;Q01664;P18754}

28478 Pathogen[ P03383] interacts with 6 human partners:{Q9H0C8;P06400;Q01664;P18754;P68036;Q9H211}

28479 Pathogen[ P03410] interacts with 7 human partners:{Q9H211;P06400;P68036;Q9H0C8;P51587;Q01664;P18754}

28480 Pathogen[ P14075] interacts with 6 human partners:{Q9H211;P68036;Q9H0C8;Q01664;P06400;P18754}

28481 Pathogen[ P0C206] interacts with 7 human partners:{P68036;P18754;P51587;Q9H211;Q01664;P06400;Q9H0C8}

28482 Pathogen[ P03363] interacts with 6 human partners:{P06400;Q9H0C8;Q9H211;P18754;Q01664;P68036}

28483 [Cluster 2590]GO:0016043+P biological\_process [name] cellular component organization [def] "A process that results in the assembly, arrangement of constituent parts, or disassembly of a cellular component." [GOC

28484 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9Y613}

28485 Pathogen[ P0C214] interacts with 2 human partners:{Q9Y613;Q2V2M9}

28486 Pathogen[ P03346] interacts with 4 human partners:{Q9NSV4;Q9Y613;Q27J81;Q2V2M9}

28487 Pathogen[ Q85601] interacts with 2 human partners:{Q2V2M9;Q9Y613}

28488 Pathogen[ P14079] interacts with 4 human partners:{Q9Y613;O60610;Q2V2M9;Q27J81}

28489 Pathogen[ P03383] interacts with 1 human partners:{Q9Y613}

28490 Pathogen[ P03410] interacts with 4 human partners:{Q27J81;O60610;Q9Y613;Q2V2M9}

28491 Pathogen[ P14075] interacts with 1 human partners:{Q9Y613}

28492 Pathogen[ P0C206] interacts with 3 human partners:{Q2V2M9;Q27J81;Q9Y613}

28493 Pathogen[ P03363] interacts with 4 human partners:{Q9NSV4;Q9Y613;Q2V2M9;Q27J81}

28494 [Cluster 2591]GO:2000637+P biological\_process [name] positive regulation of gene silencing by miRNA [def] "Any process that activates or increases the frequency, rate or extent of gene silencing by miRNA." [GOC

28495 Pathogen[ Q2Q067] interacts with 3 human partners:{A6NIX2;Q96IF1;Q9UGP4}

28496 Pathogen[ P0C214] interacts with 2 human partners:{Q9UGP4;A6NIX2}

28497 Pathogen[ P03346] interacts with 3 human partners:{Q9UGP4;Q96IF1;A6NIX2}

28498 Pathogen[ Q85601] interacts with 3 human partners:{A6NIX2;Q96IF1;Q9UGP4}

28499 Pathogen[ P14079] interacts with 3 human partners:{Q96IF1;A6NIX2;Q9UGP4}

28500 Pathogen[ P03383] interacts with 2 human partners:{A6NIX2;Q9UGP4}

28501 Pathogen[ P03410] interacts with 3 human partners:{Q9UGP4;Q96IF1;A6NIX2}

28502 Pathogen[ P14075] interacts with 2 human partners:{Q9UGP4;A6NIX2}

28503 Pathogen[ P0C206] interacts with 3 human partners:{Q9UGP4;Q96IF1;A6NIX2}

28504 Pathogen[ P03363] interacts with 3 human partners:{Q96IF1;Q9UGP4;A6NIX2}

28505 [Cluster 2592]GO:0007595+P biological\_process [name] lactation [def] "The secretion of milk by the mammary gland." [ISBN

28506 Pathogen[ Q2Q067] interacts with 5 human partners:{P22392;P07741;P24385;Q15853;O15111}

28507 Pathogen[ P0C214] interacts with 7 human partners:{O15111;P07741;P24385;O15382;Q15853;P22392;P16220}

28508 Pathogen[ P03346] interacts with 6 human partners:{O15111;P24385;P16220;Q15853;P22392;P07741}

28509 Pathogen[ Q85601] interacts with 7 human partners:{Q15853;P24385;O15111;P16220;P22392;P07741;O15382}

28510 Pathogen[ P14079] interacts with 7 human partners:{P07498;Q15853;P00403;P22392;Q16878;O15382;P07741}

28511 Pathogen[ P03383] interacts with 6 human partners:{P16220;O15111;P22392;P24385;P07741;Q15853}

28512 Pathogen[ P03410] interacts with 8 human partners:{P07498;P07741;O15111;P24385;O15382;P16220;Q15853;P00403}

28513 Pathogen[ P14075] interacts with 6 human partners:{O15111;Q15853;P16220;P24385;P07741;P22392}

28514 Pathogen[ P0C206] interacts with 8 human partners:{P16220;P22392;O15382;Q15853;O15111;P07498;P07741;P24385}

28515 Pathogen[ P03363] interacts with 5 human partners:{Q15853;O15111;P16220;P07741;P24385}

28516 [Cluster 2593]GO:0045740+P biological\_process [name] positive regulation of DNA replication [def] "Any process that activates or increases the frequency, rate or extent of DNA replication." [GOC

28517 Pathogen[ Q2Q067] interacts with 6 human partners:{P08151;Q9H668;P27797;Q9HB71;Q2NKJ3;P60953}

28518 Pathogen[ P0C214] interacts with 8 human

28519 partners:{P60953;P05412;P27797;Q9H668;P08151;Q9HB71;P18846;Q2NKJ3}  
Pathogen[ P03346] interacts with 9 human

28520 partners:{P05412;P60953;Q86SE8;Q9HB71;Q9H668;P27797;P18846;P08151;Q2NKJ3}  
Pathogen[ Q85601] interacts with 9 human

28521 partners:{P08151;Q86SE8;Q2NKJ3;P18846;P27797;Q9H668;P05412;P60953;Q9HB71}  
Pathogen[ P14079] interacts with 6 human

28522 partners:{Q9H668;P08151;Q9HB71;P04141;P05412;Q2NKJ3}  
Pathogen[ P03383] interacts with 6 human

28523 partners:{P60953;P18846;Q9HB71;Q2NKJ3;P27797;P05412}  
Pathogen[ P03410] interacts with 9 human

28524 partners:{Q86SE8;P04141;Q9HB71;Q9H668;P18846;P05412;P60953;Q2NKJ3;P27797}  
Pathogen[ P14075] interacts with 7 human

28525 partners:{P60953;P05412;Q2NKJ3;P27797;Q9HB71;P18846;Q9H668}  
Pathogen[ POC206] interacts with 9 human

28526 partners:{Q9HB71;Q2NKJ3;P27797;P05412;Q9H668;P18846;Q86SE8;P60953;P08151}  
Pathogen[ P03363] interacts with 9 human

28527 partners:{Q9HB71;P08151;P18846;P27797;Q9H668;Q2NKJ3;P05412;Q86SE8;P60953}  
[Cluster 2594]GO:0007216+P biological\_process [name] metabotropic glutamate receptor signaling pathway [def] "The series of molecular signals generated as a consequence of glutamate binding to a cell surface receptor coupled to effectors through GTP-binding proteins." [GOC

28528 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NSC5}  
28529 Pathogen[ POC214] interacts with 1 human partners:{Q9NSC5}  
28530 Pathogen[ P03346] interacts with 1 human partners:{Q9NSC5}  
28531 Pathogen[ Q85601] interacts with 1 human partners:{Q9NSC5}  
28532 Pathogen[ P14079] interacts with 1 human partners:{Q9NSC5}  
28533 Pathogen[ P03383] interacts with 1 human partners:{Q9NSC5}  
28534 Pathogen[ P03410] interacts with 1 human partners:{Q9NSC5}  
28535 Pathogen[ P14075] interacts with 1 human partners:{Q9NSC5}  
28536 Pathogen[ POC206] interacts with 1 human partners:{Q9NSC5}  
28537 Pathogen[ P03363] interacts with 1 human partners:{Q9NSC5}

28538 [Cluster 2595]GO:0007346+P biological\_process [name] regulation of mitotic cell cycle [def] "Any process that modulates the rate or extent of progress through the mitotic cell cycle." [GOC

28539 Pathogen[ Q2Q067] interacts with 12 human  
partners:{P06400;O75794;O15379;Q9NY61;D6RGH6;P38936;Q8N720;Q9UKT4;Q13619;Q9NVM9;P51808;Q9NVV9}

28540 Pathogen[ POC214] interacts with 13 human  
partners:{D6RGH6;Q13619;P51808;Q9NVM9;O75794;Q9NY61;P38936;Q9NVV9;O15379;Q7L5Y9;P06400;Q9UKT4;Q8N720}

28541 Pathogen[ P03346] interacts with 13 human  
partners:{Q9NVM9;O15379;P06400;P51808;D6RGH6;Q9NY61;Q9UKT4;Q8N720;A6NDV4;Q13619;P38936;Q9NVV9;O75794}

28542 Pathogen[ Q85601] interacts with 14 human  
partners:{Q9NVM9;Q8N720;P51808;Q9NY61;P06400;Q9UKT4;Q7L5Y9;O75794;D6RGH6;Q9NVV9;Q9NQC7;O15379;P38936;Q13619}

28543 Pathogen[ P14079] interacts with 16 human  
partners:{O15379;Q5QGS0;Q9UKT4;D6RGH6;P51808;A6NDV4;Q9NY61;Q9NVV9;Q8N720;Q9NVM9;Q7L5Y9;P38936;Q9NS64;O75794;Q9NQC7;Q13619}

28544 Pathogen[ P03383] interacts with 10 human  
partners:{Q9NY61;O75794;P51808;Q9NVM9;D6RGH6;Q9UKT4;P06400;Q9NVV9;O15379;Q8N720}

28545 Pathogen[ P03410] interacts with 16 human  
partners:{Q9UKT4;Q5QGS0;O75794;P51808;Q9NVV9;Q9NVM9;D6RGH6;Q9NY61;Q9NS64;Q8N720;A6NDV4;P06400;P38936;O15379;Q13619;Q7L5Y9}

28546 Pathogen[ P14075] interacts with 12 human  
partners:{Q9UKT4;P51808;Q9NY61;Q9NS64;Q7L5Y9;O75794;P06400;O15379;Q8N720;Q9NVM9;D6RGH6;Q9NVV9}

28547 Pathogen[ POC206] interacts with 16 human  
partners:{Q9NQC7;Q8N720;O75794;Q9NS64;D6RGH6;A6NDV4;Q9UKT4;Q13619;Q7L5Y9;O15379;P51808;P38936;Q9NVM9;Q9NY61;Q9NVV9;P06400}

28548 Pathogen[ P03363] interacts with 11 human  
partners:{Q9NVV9;O75794;Q8N720;O15379;P06400;Q13619;Q9NY61;Q9UKT4;P51808;D6RGH6;Q9NVM9}

28549 [Cluster 2596]GO:0006094+P biological\_process [name] gluconeogenesis [def] "The formation of glucose from noncarbohydrate precursors, such as pyruvate, amino acids and glycerol." [MetaCyc

28550 Pathogen[ Q2Q067] interacts with 17 human  
partners:{P13929;P18847;P05062;P60174;P09972;P09467;P18669;P04406;P40925;P15259;P06744;O14556;P40926;P18848;Q9UBX3;P06733;Q53ET0}

28551 Pathogen[ POC214] interacts with 21 human  
partners:{P35558;P15259;P40926;O14556;P05062;Q9UBX3;P18848;P13929;P09467;Q53ET0;P09104;P18847;P06733;P09972;Q16822;P16118;P60174;O00757;P04406;P00558;P21695}

28552 Pathogen[ P03346] interacts with 18 human  
partners:{P09972;Q53ET0;P04406;P18847;P13929;Q9UBX3;P60174;P09467;P06733;P20132;P18848;P18669;O14556;P40926;P15259;P06744;P05062;P40925}

28553 Pathogen[ Q85601] interacts with 19 human

28554 partners: {P60174;Q53ET0;Q9UBX3;P18848;P18669;P06733;O00757;P06744;P05062;P16118;P15259;O14556;P18847;P13929;P09972;P09467;P40925;P04406;P40926}  
Pathogen[ P14079] interacts with 11 human  
partners: {P15259;P20132;P09972;P06744;P06733;P13929;P18669;P21695;P09467;P40925;P04406}

28555 Pathogen[ P03383] interacts with 14 human  
partners: {P40926;P18847;P18669;P09467;P09972;P40925;Q16822;P06744;O14556;P04406;P18848;Q53ET0;P06733;P15259}

28556 Pathogen[ P03410] interacts with 21 human  
partners: {Q16822;O14556;P06744;P18847;P16118;P18848;P06733;P20132;P05062;P09467;Q9UBX3;O00757;Q53ET0;P09972;P15259;P04406;P18669;P13929;P40926;P40925;P21695}

28557 Pathogen[ P14075] interacts with 15 human  
partners: {P06733;P40925;P06744;Q16822;P18847;P18669;Q53ET0;P40926;P16118;P04406;P18848;P09972;P15259;P09467;O14556}

28558 Pathogen[ P0C206] interacts with 21 human  
partners: {P06733;P05062;P60174;P09467;Q16822;Q9UBX3;P20132;P06744;O14556;P40925;O00757;P04406;P40926;P18847;Q53ET0;P09972;P16118;P13929;P18848;P18669;P15259}

28559 Pathogen[ P03363] interacts with 11 human  
partners: {P18848;Q53ET0;P06744;P18669;P40925;P18847;P06733;P09972;P04406;O14556;P15259}

28560 [Cluster 2597]GO:0019941+P biological\_process [name] modification-dependent protein catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of a protein or peptide by hydrolysis of its peptide bonds, initiated by the covalent modification of the target protein." [GOC  
28561 Pathogen[ Q2Q067] interacts with 2 human partners: {O14933;Q96EP1}  
28562 Pathogen[ P0C214] interacts with 2 human partners: {O14933;Q96EP1}  
28563 Pathogen[ P03346] interacts with 2 human partners: {O14933;Q96EP1}  
28564 Pathogen[ Q85601] interacts with 2 human partners: {O14933;Q96EP1}  
28565 Pathogen[ P14079] interacts with 1 human partners: {O14933}  
28566 Pathogen[ P03383] interacts with 2 human partners: {O14933;Q96EP1}  
28567 Pathogen[ P03410] interacts with 2 human partners: {O14933;Q96EP1}  
28568 Pathogen[ P14075] interacts with 2 human partners: {O14933;Q96EP1}  
28569 Pathogen[ P0C206] interacts with 2 human partners: {O14933;Q96EP1}  
28570 Pathogen[ P03363] interacts with 2 human partners: {Q96EP1;O14933}

28571 [Cluster 2598]GO:0007622+P biological\_process [name] rhythmic behavior [def] "The specific actions or reactions of an organism that recur with measured regularity." [GOC  
28572 Pathogen[ Q2Q067] interacts with 1 human partners: {P11161}  
28573 Pathogen[ P0C214] interacts with 1 human partners: {P11161}  
28574 Pathogen[ P03346] interacts with 1 human partners: {P11161}  
28575 Pathogen[ Q85601] interacts with 1 human partners: {P11161}  
28576 Pathogen[ P14079] interacts with 1 human partners: {P11161}  
28577 Pathogen[ P03383] interacts with 1 human partners: {P11161}  
28578 Pathogen[ P03410] interacts with 1 human partners: {P11161}  
28579 Pathogen[ P14075] interacts with 1 human partners: {P11161}  
28580 Pathogen[ P0C206] interacts with 1 human partners: {P11161}  
28581 Pathogen[ P03363] interacts with 1 human partners: {P11161}

28582 [Cluster 2599]GO:0006986+P biological\_process [name] response to unfolded protein [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an unfolded protein stimulus." [GOC  
28583 Pathogen[ Q2Q067] interacts with 23 human  
partners: {Q12988;Q16082;P61604;P08238;P18850;P07900;P35638;P08107;P04792;Q96CS3;Q92575;Q9BUX1;P11142;Q9UDY4;O75190;O14656;Q68CJ9;P25685;Q8IUR6;Q9NRD1;O75953;P31689;Q9UBY9}

28584 Pathogen[ P0C214] interacts with 22 human  
partners: {P18850;Q9UDY4;Q12988;O75190;P34932;P61604;Q9UBY9;P04792;Q16082;O14656;Q68CJ9;Q9NRD1;Q9BUX1;P10809;Q96CS3;Q8IUR6;Q92575;P08107;O75953;P35638;P11142;P25685}

28585 Pathogen[ P03346] interacts with 29 human  
partners: {P08107;Q16082;Q12988;P07900;P25685;Q9BUX1;Q96BA8;O75190;P35638;Q96CS3;O14656;Q70SY1;P61604;P11142;P25686;Q8IUR6;P18850;Q92575;Q9BUN8;Q9UBY9;Q9NRD1;P31689;Q68CJ9;P34932;Q9UDY4;Q8TEY5;P08238;O75953;P04792}

28586 Pathogen[ Q85601] interacts with 25 human  
partners: {Q68CJ9;Q92575;P08107;P31689;Q9BUX1;Q8IUR6;O75190;Q96CS3;P61604;P55145;P25685;O75953;Q9UBY9;Q12988;P11142;P08238;O14656;P18850;Q9UDY4;P07900;Q16082;P34932;P04792;P35638;Q9NRD1}

28587 Pathogen[ P14079] interacts with 29 human  
partners: {P11142;Q9P055;Q68CJ9;Q96CS3;Q9UDY4;Q12988;Q9GZP9;O75190;P25685;P61604;Q9BUN8;O14656;P08238;P08107;O75953;P07900;O95292;Q16082;P35638;P18850;P31689;Q9NRD1;Q15011;P04792;Q9BUX1;Q92575;Q9UBY9;Q8IUR6;Q9BSE4}

28588 Pathogen[ P03383] interacts with 22 human  
partners: {P08107;Q68CJ9;Q8IUR6;Q9BUX1;Q9BUN8;P61604;P35638;P04792;P07900;P31689;O75190;Q9UDY4;Q96CS3;P55145;P11142;Q16082;Q9UBY9;Q9NRD1;P18850;P08238;O75953;Q92575}

28589 Pathogen[ P03410] interacts with 30 human  
partners: {Q9UDY4;O95292;Q68CJ9;P35638;Q9NRD1;P08238;O14656;P25685;P61604;Q9BUX1;P25686;P11142;P04792;P07900;O75953;Q9GZP9;Q9P055;Q92575;Q9BSE4;Q9BUN8;P08107;O75190;Q16082;Q12988;Q8IUR6;Q96CS3;P31689;Q15011;P18850;Q9UBY9}

28590 Pathogen[ P14075] interacts with 22 human  
partners: {O75953;Q96CS3;P31689;Q9UBY9;P11142;P61604;P35638;P04792;Q16082;Q9UDY4;P08238;P07900;Q9BUN8;Q92575;Q9BUX1;Q68CJ9;O75190;Q9NRD1;P08107;Q15011;Q8IUR6;P18850}

28591 Pathogen[ POC206] interacts with 29 human  
partners: {Q8IUR6;Q92575;Q12988;Q9UDY4;Q9BUX1;P18850;P34932;P04792;P55145;O95292;Q9NRD1;Q16082;P08238;P07900;Q15011;O14656;Q9BUN8;Q9GZP9;P08107;O75953;P25685;Q96CS3;P11142;P31689;P35638;P61604;O75190;Q68CJ9;Q9UBY9}

28592 Pathogen[ P03363] interacts with 23 human  
partners: {Q9UBY9;O75190;O75953;Q16082;P54652;P07900;Q92575;P18850;Q12988;Q9BUX1;Q9UDY4;Q96CS3;P08107;P34932;Q68CJ9;P35638;P25685;Q8IUR6;Q9NRD1;P08238;P04792;P11142;P61604}

28593 [Cluster 2600]GO:0032438+P biological\_process [name] melanosome organization [def] "A process that is carried out at the cellular level which results in the assembly, arrangement of constituent parts, or disassembly of a melanosome. A melanosome is a tissue-specific, membrane-bounded cytoplasmic organelle within which melanin pigments are synthesized and stored." [GOC

28594 Pathogen[ Q2Q067] interacts with 10 human  
partners: {Q9UL45;O95295;Q9H1H9;Q9NUP1;Q6QNY0;Q96EV8;Q8TDH9;Q9BXS5;Q6QNY1;P78537}

28595 Pathogen[ POC214] interacts with 10 human  
partners: {Q99698;O95295;P78537;Q8TDH9;Q6QNY0;Q9UL45;Q96EV8;Q9NUP1;Q6QNY1;Q9BXS5}

28596 Pathogen[ P03346] interacts with 11 human  
partners: {Q99698;O95295;Q9BXS5;Q9H1H9;Q6QNY0;P78537;Q96EV8;Q6QNY1;Q9UL45;Q8TDH9;Q9NUP1}

28597 Pathogen[ Q85601] interacts with 10 human  
partners: {Q6QNY0;Q9NUP1;O95295;Q9BXS5;Q9H1H9;P78537;Q96EV8;Q6QNY1;Q8TDH9;Q99698}

28598 Pathogen[ P14079] interacts with 11 human  
partners: {Q9BXS5;Q6QNY0;Q9UL45;Q9H1H9;Q8TDH9;O95295;Q96EV8;Q9NUP1;Q99698;Q6QNY1;P78537}

28599 Pathogen[ P03383] interacts with 9 human  
partners: {Q6QNY0;O95295;Q8TDH9;P78537;Q9NUP1;Q96EV8;Q9H1H9;Q9BXS5;Q6QNY1}

28600 Pathogen[ P03410] interacts with 12 human  
partners: {Q9NUP1;O00203;P78537;Q6QNY1;Q9BXS5;Q9H1H9;Q6QNY0;Q9UL45;O95295;Q99698;Q8TDH9;Q96EV8}

28601 Pathogen[ P14075] interacts with 9 human  
partners: {P78537;Q9H1H9;O95295;Q6QNY1;Q6QNY0;Q9NUP1;Q8TDH9;Q96EV8;Q9BXS5}

28602 Pathogen[ POC206] interacts with 11 human  
partners: {P78537;Q9UL45;Q99698;Q6QNY1;Q8TDH9;Q9H1H9;Q9BXS5;Q96EV8;O95295;Q9NUP1;Q6QNY0}

28603 Pathogen[ P03363] interacts with 9 human  
partners: {P78537;Q9BXS5;Q99698;Q6QNY1;O95295;Q8TDH9;Q9H1H9;Q6QNY0;Q9NUP1}

28604 [Cluster 2601]GO:0009399+P biological\_process [name] nitrogen fixation [def] "The process in which nitrogen is taken from its relatively inert molecular form (N2) in the atmosphere and converted into nitrogen compounds useful for other chemical processes, such as ammonia, nitrate and nitrogen dioxide." [Wikipedia

28605 Pathogen[ Q2Q067] interacts with 1 human partners: {Q9H1K1}

28606 Pathogen[ POC214] interacts with 1 human partners: {Q9H1K1}

28607 Pathogen[ P03346] interacts with 1 human partners: {Q9H1K1}

28608 Pathogen[ Q85601] interacts with 1 human partners: {Q9H1K1}

28609 Pathogen[ P14079] interacts with 1 human partners: {Q9H1K1}

28610 Pathogen[ P03383] interacts with 1 human partners: {Q9H1K1}

28611 Pathogen[ P03410] interacts with 1 human partners: {Q9H1K1}

28612 Pathogen[ P14075] interacts with 1 human partners: {Q9H1K1}

28613 Pathogen[ POC206] interacts with 1 human partners: {Q9H1K1}

28614 Pathogen[ P03363] interacts with 1 human partners: {Q9H1K1}

28615 [Cluster 2602]GO:0045176+P biological\_process [name] apical protein localization [def] "Any process in which a protein is transported to, or maintained in, apical regions of the cell." [GOC

28616 Pathogen[ Q2Q067] interacts with 1 human partners: {P54920}

28617 Pathogen[ POC214] interacts with 2 human partners: {P54920;Q9HD26}

28618 Pathogen[ P03346] interacts with 2 human partners: {Q9HD26;P54920}

28619 Pathogen[ Q85601] interacts with 2 human partners: {P54920;Q9HD26}

28620 Pathogen[ P14079] interacts with 3 human partners: {Q9HD26;P54920;P35241}

28621 Pathogen[ P03383] interacts with 2 human partners: {P54920;Q9HD26}

28622 Pathogen[ P03410] interacts with 3 human partners: {Q9HD26;P35241;P54920}

28623 Pathogen[ P14075] interacts with 2 human partners: {P54920;Q9HD26}

28624 Pathogen[ POC206] interacts with 2 human partners: {P54920;Q9HD26}

28625 Pathogen[ P03363] interacts with 2 human partners: {P54920;Q9HD26}

28626 [Cluster 2603]GO:0042985+P biological\_process [name] negative regulation of amyloid precursor protein biosynthetic process [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the chemical reactions and pathways resulting in the formation of amyloid precursor protein (APP), the precursor of beta-amyloid." [GOC

28627 Pathogen[ Q2Q067] interacts with 1 human partners: {Q9NY61}

28628 Pathogen[ POC214] interacts with 1 human partners: {Q9NY61}

28629 Pathogen[ P03346] interacts with 1 human partners: {Q9NY61}

28630 Pathogen[ Q85601] interacts with 1 human partners: {Q9NY61}

28631 Pathogen[ P14079] interacts with 2 human partners:{Q9NY61;Q9Y287}  
28632 Pathogen[ P03383] interacts with 1 human partners:{Q9NY61}  
28633 Pathogen[ P03410] interacts with 2 human partners:{Q9NY61;Q9Y287}  
28634 Pathogen[ P14075] interacts with 2 human partners:{Q9NY61;Q9Y287}  
28635 Pathogen[ P0C206] interacts with 2 human partners:{Q9Y287;Q9NY61}  
28636 Pathogen[ P03363] interacts with 1 human partners:{Q9NY61}  
28637 [Cluster 2604]GO:0051595+P biological\_process [name] response to methylglyoxal  
[def] "Any process that results in a change in state or activity of a cell or an  
organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as  
a result of a methylglyoxal stimulus." [GOC  
28638 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96ST3}  
28639 Pathogen[ P0C214] interacts with 1 human partners:{Q96ST3}  
28640 Pathogen[ P03346] interacts with 1 human partners:{Q96ST3}  
28641 Pathogen[ Q85601] interacts with 1 human partners:{Q96ST3}  
28642 Pathogen[ P14079] interacts with 1 human partners:{Q96ST3}  
28643 Pathogen[ P03383] interacts with 1 human partners:{Q96ST3}  
28644 Pathogen[ P03410] interacts with 1 human partners:{Q96ST3}  
28645 Pathogen[ P14075] interacts with 1 human partners:{Q96ST3}  
28646 Pathogen[ P0C206] interacts with 1 human partners:{Q96ST3}  
28647 Pathogen[ P03363] interacts with 1 human partners:{Q96ST3}  
28648 [Cluster 2605]GO:0001649+P biological\_process [name] osteoblast differentiation  
[def] "The process in which a relatively unspecialized cell acquires the specialized  
features of an osteoblast, the mesodermal cell that gives rise to bone." [CL  
28649 Pathogen[ Q2Q067] interacts with 12 human  
partners:{P31749;P08151;Q14814;Q14192;Q9NZC7;P35548;P62328;P84022;Q9GZV5;Q8WVJ9;Q139  
51;Q8TDD2}  
28650 Pathogen[ P0C214] interacts with 13 human  
partners:{P17275;P84022;Q9GZV5;Q9NZC7;Q14814;Q14192;Q8WVJ9;P08151;P35548;P31749;P623  
28;Q8TDD2;Q13951}  
28651 Pathogen[ P03346] interacts with 15 human  
partners:{Q14814;P35548;Q9GZV5;P17275;Q8TDD2;P84022;P31749;Q95863;Q13951;Q14192;Q9NZ  
C7;Q8WVJ9;P62328;P56178;P08151}  
28652 Pathogen[ Q85601] interacts with 13 human  
partners:{Q9NZC7;P08151;P31749;Q8TDD2;Q13951;Q14814;Q9GZV5;Q14192;P35548;P84022;P623  
28;P17275;Q8WVJ9}  
28653 Pathogen[ P14079] interacts with 11 human  
partners:{P08151;Q06413;Q9GZV5;Q14192;Q8WVJ9;Q9NZC7;P62328;P17275;Q14814;Q8TDD2;Q139  
51}  
28654 Pathogen[ P03383] interacts with 10 human  
partners:{Q8WVJ9;P31749;P62328;Q14814;P84022;P35548;Q13951;Q14192;P17275;Q9GZV5}  
28655 Pathogen[ P03410] interacts with 12 human  
partners:{P84022;P62328;Q8WVJ9;Q8TDD2;Q14814;Q9NZC7;P31749;Q9GZV5;P35548;P17275;Q139  
51;Q14192}  
28656 Pathogen[ P14075] interacts with 10 human  
partners:{Q9GZV5;Q13951;P62328;P17275;P35548;Q8WVJ9;P31749;P84022;Q14814;Q14192}  
28657 Pathogen[ P0C206] interacts with 13 human  
partners:{P84022;P31749;P17275;P62328;Q13951;Q8WVJ9;Q9GZV5;P35548;Q9NZC7;Q14192;Q148  
14;P08151;Q8TDD2}  
28658 Pathogen[ P03363] interacts with 12 human  
partners:{P08151;P62328;Q8TDD2;P35548;P17275;Q13951;Q9GZV5;Q14814;P31749;P84022;Q8WV  
J9;Q14192}  
28659 [Cluster 2606]GO:0070198+P biological\_process [name] protein localization to  
chromosome, telomeric region [def] "Any process in which a protein is transported to,  
or maintained at, the telomeric region of a chromosome." [GOC  
28660 Pathogen[ Q2Q067] interacts with 6 human  
partners:{Q9H2K2;Q9NYB0;Q15554;Q9BSI4;Q96AP0;O95271}  
28661 Pathogen[ P0C214] interacts with 5 human  
partners:{Q9BSI4;Q15554;Q9H2K2;Q9NYB0;O95271}  
28662 Pathogen[ P03346] interacts with 6 human  
partners:{Q9BSI4;Q96AP0;Q15554;Q9H2K2;Q9NYB0;O95271}  
28663 Pathogen[ Q85601] interacts with 4 human partners:{Q15554;Q9H2K2;Q9NYB0;O95271}  
28664 Pathogen[ P14079] interacts with 6 human  
partners:{O95271;Q9BSI4;Q9H2K2;Q9NYB0;Q15554;Q96AP0}  
28665 Pathogen[ P03383] interacts with 4 human partners:{Q9NYB0;Q15554;Q9BSI4;O95271}  
28666 Pathogen[ P03410] interacts with 6 human  
partners:{Q15554;Q96AP0;Q9BSI4;O95271;Q9H2K2;Q9NYB0}  
28667 Pathogen[ P14075] interacts with 5 human  
partners:{Q15554;Q9BSI4;Q96AP0;O95271;Q9NYB0}  
28668 Pathogen[ P0C206] interacts with 6 human  
partners:{O95271;Q96AP0;Q15554;Q9BSI4;Q9NYB0;Q9H2K2}  
28669 Pathogen[ P03363] interacts with 6 human  
partners:{Q15554;Q9NYB0;Q9BSI4;Q9H2K2;Q96AP0;O95271}  
28670 [Cluster 2607]GO:0031297+P biological\_process [name] replication fork processing  
[def] "The process in which a DNA replication fork that has stalled (due to DNA damage,  
DNA secondary structure, bound proteins, dNTP shortage, or other causes) is repaired and  
replication is restarted." [PMID

28671 Pathogen[ Q2Q067] interacts with 5 human partners: {Q8N2Z9;A8MT69;Q96HA7;Q6ZRQ5;Q8IYD8}

28672 Pathogen[ POC214] interacts with 4 human partners: {Q6ZRQ5;Q8N2Z9;Q96HA7;Q8IYD8}

28673 Pathogen[ P03346] interacts with 5 human partners: {Q8N2Z9;Q96HA7;Q6ZRQ5;A8MT69;Q8IYD8}

28674 Pathogen[ Q85601] interacts with 5 human partners: {Q96HA7;Q8IYD8;Q6ZRQ5;A8MT69;Q8N2Z9}

28675 Pathogen[ P14079] interacts with 5 human partners: {Q8IYD8;Q96HA7;Q8N2Z9;A8MT69;Q6ZRQ5}

28676 Pathogen[ P03383] interacts with 4 human partners: {Q8N2Z9;Q6ZRQ5;A8MT69;Q96HA7}

28677 Pathogen[ P03410] interacts with 5 human partners: {Q8IYD8;A8MT69;Q96HA7;Q8N2Z9;Q6ZRQ5}

28678 Pathogen[ P14075] interacts with 4 human partners: {A8MT69;Q6ZRQ5;Q8N2Z9;Q96HA7}

28679 Pathogen[ POC206] interacts with 5 human partners: {Q96HA7;Q8IYD8;Q6ZRQ5;Q8N2Z9;A8MT69}

28680 Pathogen[ P03363] interacts with 5 human partners: {Q8N2Z9;Q8IYD8;Q96HA7;Q6ZRQ5;A8MT69}

28681 [Cluster 2608]GO:0045010+P biological\_process [name] actin nucleation [def] "The initial step in the formation of an actin filament, in which actin monomers combine to form a new filament. Nucleation is slow relative to the subsequent addition of more monomers to extend the filament." [ISBN

28682 Pathogen[ Q2Q067] interacts with 1 human partners: {P59998}

28683 Pathogen[ POC214] interacts with 1 human partners: {P59998}

28684 Pathogen[ P03346] interacts with 1 human partners: {P59998}

28685 Pathogen[ Q85601] interacts with 1 human partners: {P59998}

28686 Pathogen[ P14079] interacts with 2 human partners: {Q9Y6U3;P59998}

28687 Pathogen[ P03383] interacts with 1 human partners: {P59998}

28688 Pathogen[ P03410] interacts with 2 human partners: {P59998;Q9Y6U3}

28689 Pathogen[ P14075] interacts with 1 human partners: {P59998}

28690 Pathogen[ POC206] interacts with 1 human partners: {P59998}

28691 Pathogen[ P03363] interacts with 1 human partners: {P59998}

28692 [Cluster 2609]GO:0002052+P biological\_process [name] positive regulation of neuroblast proliferation [def] "Any process that activates or increases the rate of neuroblast proliferation." [GOC

28693 Pathogen[ Q2Q067] interacts with 4 human partners: {P56693;Q9NRI5;Q8IZT6;Q6STE5}

28694 Pathogen[ POC214] interacts with 4 human partners: {Q9NRI5;P56693;Q6STE5;Q8IZT6}

28695 Pathogen[ P03346] interacts with 5 human partners: {Q9NRI5;P56693;Q6STE5;Q5XKR4;Q8IZT6}

28696 Pathogen[ Q85601] interacts with 4 human partners: {Q6STE5;Q8IZT6;P56693;Q9NRI5}

28697 Pathogen[ P14079] interacts with 4 human partners: {Q6STE5;Q9NRI5;P56693;Q8IZT6}

28698 Pathogen[ P03383] interacts with 3 human partners: {Q9NRI5;Q6STE5;P56693}

28699 Pathogen[ P03410] interacts with 4 human partners: {Q8IZT6;P56693;Q9NRI5;Q6STE5}

28700 Pathogen[ P14075] interacts with 3 human partners: {P56693;Q9NRI5;Q6STE5}

28701 Pathogen[ POC206] interacts with 4 human partners: {Q6STE5;Q8IZT6;P56693;Q9NRI5}

28702 Pathogen[ P03363] interacts with 5 human partners: {Q6STE5;P56693;Q5XKR4;Q9NRI5;Q8IZT6}

28703 [Cluster 2610]GO:0034614+P biological\_process [name] cellular response to reactive oxygen species [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a reactive oxygen species stimulus. Reactive oxygen species include singlet oxygen, superoxide, and oxygen free radicals." [GOC

28704 Pathogen[ Q2Q067] interacts with 2 human partners: {P01100;P07320}

28705 Pathogen[ POC214] interacts with 2 human partners: {P01100;P07320}

28706 Pathogen[ P03346] interacts with 2 human partners: {P07320;P01100}

28707 Pathogen[ Q85601] interacts with 2 human partners: {P01100;P07320}

28708 Pathogen[ P14079] interacts with 4 human partners: {P07320;P60602;P49023;P01100}

28709 Pathogen[ P03383] interacts with 2 human partners: {P01100;P07320}

28710 Pathogen[ P03410] interacts with 3 human partners: {P01100;P07320;P60602}

28711 Pathogen[ P14075] interacts with 3 human partners: {P07320;P60602;P01100}

28712 Pathogen[ POC206] interacts with 3 human partners: {P07320;P01100;P60602}

28713 Pathogen[ P03363] interacts with 2 human partners: {P07320;P01100}

28714 [Cluster 2611]GO:0045653+P biological\_process [name] negative regulation of megakaryocyte differentiation [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of megakaryocyte differentiation." [GOC

28715 Pathogen[ Q2Q067] interacts with 1 human partners: {Q99873}

28716 Pathogen[ POC214] interacts with 1 human partners: {Q99873}

28717 Pathogen[ P03346] interacts with 1 human partners: {Q99873}

28718 Pathogen[ Q85601] interacts with 1 human partners: {Q99873}

28719 Pathogen[ P14079] interacts with 1 human partners: {Q99873}

28720 Pathogen[ P03383] interacts with 1 human partners: {Q99873}

28721 Pathogen[ P03410] interacts with 1 human partners: {Q99873}

28722 Pathogen[ P14075] interacts with 1 human partners: {Q99873}

28723 Pathogen[ POC206] interacts with 1 human partners: {Q99873}

28724 Pathogen[ P03363] interacts with 1 human partners: {Q99873}

28725 [Cluster 2612]GO:0042276+P biological\_process [name] error-prone translesion synthesis [def] "The conversion of DNA-damage induced single-stranded gaps into large molecular

weight DNA after replication by using a specialized DNA polymerase or replication complex to insert a defined nucleotide across the lesion. This process does not remove the replication-blocking lesions and causes an increase in the endogenous mutation level. For example, in *E. coli*, a low fidelity DNA polymerase, pol V, copies lesions that block replication fork progress. This produces mutations specifically targeted to DNA template damage sites, but it can also produce mutations at undamaged sites." [GOC

28726 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UBZ9}

28727 Pathogen[ P0C214] interacts with 1 human partners:{Q9UBZ9}

28728 Pathogen[ P03346] interacts with 1 human partners:{Q9UBZ9}

28729 Pathogen[ Q85601] interacts with 1 human partners:{Q9UBZ9}

28730 Pathogen[ P14079] interacts with 1 human partners:{Q9UBZ9}

28731 Pathogen[ P03383] interacts with 1 human partners:{Q9UBZ9}

28732 Pathogen[ P03410] interacts with 1 human partners:{Q9UBZ9}

28733 Pathogen[ P14075] interacts with 1 human partners:{Q9UBZ9}

28734 Pathogen[ P0C206] interacts with 1 human partners:{Q9UBZ9}

28735 Pathogen[ P03363] interacts with 1 human partners:{Q9UBZ9}

28736 [Cluster 2613]GO:0010216+P biological\_process [name] maintenance of DNA methylation [def] "Any process involved in maintaining the methylation state of a nucleotide sequence." [PMID

28737 Pathogen[ Q2Q067] interacts with 4 human partners:{Q93009;Q96T88;P26358;P49711}

28738 Pathogen[ P0C214] interacts with 4 human partners:{Q96T88;P26358;Q93009;P49711}

28739 Pathogen[ P03346] interacts with 5 human partners:{Q9NRZ9;Q93009;P26358;P49711;Q96T88}

28740 Pathogen[ Q85601] interacts with 4 human partners:{Q93009;P26358;P49711;Q96T88}

28741 Pathogen[ P14079] interacts with 2 human partners:{P26358;P49711}

28742 Pathogen[ P03383] interacts with 2 human partners:{P49711;P26358}

28743 Pathogen[ P03410] interacts with 2 human partners:{P26358;P49711}

28744 Pathogen[ P14075] interacts with 2 human partners:{P26358;P49711}

28745 Pathogen[ P0C206] interacts with 5 human partners:{P26358;Q93009;Q96T88;P49711;Q9NRZ9}

28746 Pathogen[ P03363] interacts with 3 human partners:{P49711;P26358;Q96T88}

28747 [Cluster 2614]GO:0018279+P biological\_process [name] protein N-linked glycosylation via asparagine [def] "The glycosylation of protein via the N4 atom of peptidyl-asparagine forming N4-glycosyl-L-asparagine\_ the most common form is N-acetylglucosaminy l asparagine\_ N-acetylgalactosaminy l asparagine and N4 glucosyl asparagine also occur. This modification typically occurs in extracellular peptides with an N-X-(ST) motif. Partial modification has been observed to occur with cysteine, rather than serine or threonine, in the third position\_ secondary structure features are important, and proline in the second or fourth positions inhibits modification." [GOC

28748 Pathogen[ Q2Q067] interacts with 11 human partners:{P55735;P34949;P60604;O95394;P27797;Q16222;P53992;O95486;O94855;O95487;Q15436}

28749 Pathogen[ P0C214] interacts with 15 human partners:{P55735;P53992;Q16222;Q15436;O95487;P49257;P27797;P34949;O95394;O15305;Q96EK6;O95486;P55072;O94855;P60604}

28750 Pathogen[ P03346] interacts with 14 human partners:{P55735;P49257;Q16222;P55072;O94855;Q15436;P60604;O95486;P27797;Q9HCU5;O95394;P34949;O95487;P53992}

28751 Pathogen[ Q85601] interacts with 13 human partners:{P34949;O95487;P27797;Q15436;Q16222;P49257;P55735;Q96EK6;O95486;O95394;O94855;P60604;P53992}

28752 Pathogen[ P14079] interacts with 26 human partners:{Q5SRI9;P49257;Q16222;O15305;O95487;P39656;P60604;O94855;Q9BT22;Q96Q80;P53992;P04844;O94777;Q9NYU1;Q9P2X0;O95394;Q9NYU2;P34949;P61803;P55735;Q9NRP0;Q96AA3;Q96EK6;O95486;Q9UBM8;P46977}

28753 Pathogen[ P03383] interacts with 10 human partners:{P34949;P55735;O95487;O95486;Q15436;P60604;O94855;O95394;P53992;P27797}

28754 Pathogen[ P03410] interacts with 25 human partners:{P49257;O94855;P53992;Q16222;P34949;O94777;Q96Q80;Q96EK6;Q5SRI9;Q15436;Q9NYU1;O95486;Q9BT22;P04844;Q9HCU5;O15305;P60604;P55735;P39656;O95394;P61803;Q9P2X0;O95487;Q9NYU2;P27797}

28755 Pathogen[ P14075] interacts with 13 human partners:{P60604;O94777;Q5SRI9;P34949;P53992;P55735;O95487;P27797;Q15436;O95394;O94855;Q96EK6;O95486}

28756 Pathogen[ P0C206] interacts with 17 human partners:{Q5SRI9;P27797;Q16222;O94855;P39656;O95394;P55735;O94777;P34949;P60604;O95486;P49257;O95487;P55072;Q96EK6;P53992;Q15436}

28757 Pathogen[ P03363] interacts with 9 human partners:{P60604;Q16222;Q15436;O95486;P27797;P53992;O95487;P55735;O94855}

28758 [Cluster 2615]GO:0031668+P biological\_process [name] cellular response to extracellular stimulus [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an extracellular stimulus." [GOC

28759 Pathogen[ Q2Q067] interacts with 7 human partners:{P01100;Q9H2P0;P05062;P38936;P00338;P15407;P42772}

28760 Pathogen[ P0C214] interacts with 6 human



28761 partners:{P15407;P01100;P38936;P05062;P42772;Q9H2P0}  
Pathogen[ P03346] interacts with 7 human

28762 partners:{Q9H2P0;P42772;P00338;P15407;P05062;P38936;P01100}  
Pathogen[ Q85601] interacts with 7 human

28763 partners:{P15407;P42772;P05062;P01100;Q9H2P0;P38936;P00338}  
Pathogen[ P14079] interacts with 6 human

28764 partners:{P00338;Q9H2P0;P38936;P57764;P15407;P01100}  
Pathogen[ P03383] interacts with 4 human partners:{P00338;P42772;P15407;P01100}

28765 partners:{P42772;P05062;P01100;P38936;P00338;P15407}  
Pathogen[ P03410] interacts with 6 human

28766 Pathogen[ P14075] interacts with 4 human partners:{P01100;P00338;P42772;P15407}

28767 Pathogen[ P0C206] interacts with 7 human  
partners:{P05062;P15407;P42772;P01100;P38936;Q9H2P0;P00338}

28768 Pathogen[ P03363] interacts with 4 human partners:{Q9H2P0;P42772;P15407;P01100}

28769 [Cluster 2616]GO:0010738+P biological\_process [name] regulation of protein kinase A signaling cascade [def] "Any process that modulates the rate, frequency, or extent of the protein kinase A signaling cascade. The PKA signaling cascade is the series of reactions, mediated by the intracellular serine/threonine kinase protein kinase A, which occurs as a result of a single trigger reaction or compound." [GOC

28770 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9P0M2;O00170;Q13023}

28771 Pathogen[ P0C214] interacts with 3 human partners:{O00170;Q13023;Q9P0M2}

28772 Pathogen[ P03346] interacts with 4 human partners:{Q9P0M2;O00170;Q13023;Q9UKA4}

28773 Pathogen[ Q85601] interacts with 3 human partners:{O00170;Q9P0M2;Q13023}

28774 Pathogen[ P14079] interacts with 4 human partners:{Q9UKA4;Q13023;Q9P0M2;O00170}

28775 Pathogen[ P03383] interacts with 2 human partners:{Q13023;O00170}

28776 Pathogen[ P03410] interacts with 4 human partners:{Q9UKA4;Q9P0M2;O00170;Q13023}

28777 Pathogen[ P14075] interacts with 2 human partners:{O00170;Q13023}

28778 Pathogen[ P0C206] interacts with 4 human partners:{Q13023;Q9P0M2;O00170;Q9UKA4}

28779 Pathogen[ P03363] interacts with 3 human partners:{Q9P0M2;Q13023;O00170}

28780 [Cluster 2617]GO:0032348+P biological\_process [name] negative regulation of aldosterone biosynthetic process [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the chemical reactions and pathways resulting in the formation of aldosterone." [GOC

28781 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13127}

28782 Pathogen[ P0C214] interacts with 1 human partners:{Q13127}

28783 Pathogen[ P03346] interacts with 1 human partners:{Q13127}

28784 Pathogen[ Q85601] interacts with 1 human partners:{Q13127}

28785 Pathogen[ P14079] interacts with 1 human partners:{Q13127}

28786 Pathogen[ P03383] interacts with 1 human partners:{Q13127}

28787 Pathogen[ P03410] interacts with 1 human partners:{Q13127}

28788 Pathogen[ P14075] interacts with 1 human partners:{Q13127}

28789 Pathogen[ P0C206] interacts with 1 human partners:{Q13127}

28790 Pathogen[ P03363] interacts with 1 human partners:{Q13127}

28791 [Cluster 2618]GO:0006344+P biological\_process [name] maintenance of chromatin silencing [def] "The maintenance of chromatin in a transcriptionally silent state such as heterochromatin." [GOC

28792 Pathogen[ Q2Q067] interacts with 2 human partners:{P63146;Q92769}

28793 Pathogen[ P0C214] interacts with 2 human partners:{Q92769;P63146}

28794 Pathogen[ P03346] interacts with 2 human partners:{P63146;Q92769}

28795 Pathogen[ Q85601] interacts with 2 human partners:{P63146;Q92769}

28796 Pathogen[ P14079] interacts with 2 human partners:{Q92769;P63146}

28797 Pathogen[ P03383] interacts with 2 human partners:{Q92769;P63146}

28798 Pathogen[ P03410] interacts with 2 human partners:{Q92769;P63146}

28799 Pathogen[ P14075] interacts with 2 human partners:{Q92769;P63146}

28800 Pathogen[ P0C206] interacts with 2 human partners:{Q92769;P63146}

28801 Pathogen[ P03363] interacts with 1 human partners:{P63146}

28802 [Cluster 2619]GO:0016579+P biological\_process [name] protein deubiquitination [def] "The removal of one or more ubiquitin groups from a protein." [GOC

28803 Pathogen[ Q2Q067] interacts with 4 human partners:{Q9Y5K5;Q8TAF3;Q93009;Q93008}

28804 Pathogen[ P0C214] interacts with 6 human  
partners:{Q92560;Q93008;Q9Y5K5;Q8TAF3;Q93009;Q9H3M9}

28805 Pathogen[ P03346] interacts with 14 human  
partners:{Q9BXU7;Q93009;Q92560;Q9H3M9;Q93008;Q95630;Q8TAF3;Q14694;P51784;O75604;Q6GQ9;O94782;Q9Y5K5;Q9H0E7}

28806 Pathogen[ Q85601] interacts with 8 human  
partners:{Q9H0E7;Q93009;Q92560;Q9H3M9;Q93008;Q9Y5K5;Q8TAF3;Q95630}

28807 Pathogen[ P14079] interacts with 4 human partners:{Q9H3M9;Q9Y5K5;Q92560;Q8TAF3}

28808 Pathogen[ P03383] interacts with 3 human partners:{Q8TAF3;Q9Y5K5;Q9H3M9}

28809 Pathogen[ P03410] interacts with 3 human partners:{Q9H3M9;Q8TAF3;Q9Y5K5}

28810 Pathogen[ P14075] interacts with 3 human partners:{Q8TAF3;Q9H3M9;Q9Y5K5}

28811 Pathogen[ P0C206] interacts with 10 human  
partners:{Q8TAF3;Q93008;O75604;Q95630;Q93009;Q9H0E7;Q9Y5K5;Q9H3M9;Q6GQ9;Q92560}

28812 Pathogen[ P03363] interacts with 8 human  
partners:{Q9Y5K5;P51784;Q8TAF3;Q6GQ9;O75604;Q92560;Q9BXU7;Q93008}

28813 [Cluster 2620]GO:0071930+P biological\_process [name] negative regulation of transcription involved in G1/S phase of mitotic cell cycle [def] "Any process that

stop, prevents or decreases transcription as part of the G1/S transition of the mitotic cell cycle." [GOC

28814 Pathogen[ Q2Q067] interacts with 2 human partners:{P06400;Q01094}

28815 Pathogen[ P0C214] interacts with 2 human partners:{Q01094;P06400}

28816 Pathogen[ P03346] interacts with 2 human partners:{P06400;Q01094}

28817 Pathogen[ Q85601] interacts with 2 human partners:{P06400;Q01094}

28818 Pathogen[ P14079] interacts with 1 human partners:{Q01094}

28819 Pathogen[ P03383] interacts with 2 human partners:{Q01094;P06400}

28820 Pathogen[ P03410] interacts with 2 human partners:{P06400;Q01094}

28821 Pathogen[ P14075] interacts with 2 human partners:{Q01094;P06400}

28822 Pathogen[ P0C206] interacts with 2 human partners:{Q01094;P06400}

28823 Pathogen[ P03363] interacts with 2 human partners:{P06400;Q01094}

28824 [Cluster 2621]GO:0033689+P biological\_process [name] negative regulation of osteoblast proliferation [def] "Any process that stops, prevents or reduces the rate or extent of osteoblast proliferation." [GOC

28825 Pathogen[ Q2Q067] interacts with 1 human partners:{P84022}

28826 Pathogen[ P0C214] interacts with 1 human partners:{P84022}

28827 Pathogen[ P03346] interacts with 3 human partners:{Q6UW56;P84022;Q92832}

28828 Pathogen[ Q85601] interacts with 1 human partners:{P84022}

28829 Pathogen[ P14079] interacts with 1 human partners:{Q92832}

28830 Pathogen[ P03383] interacts with 1 human partners:{P84022}

28831 Pathogen[ P03410] interacts with 2 human partners:{P84022;Q92832}

28832 Pathogen[ P14075] interacts with 1 human partners:{P84022}

28833 Pathogen[ P0C206] interacts with 3 human partners:{P84022;Q6UW56;Q92832}

28834 Pathogen[ P03363] interacts with 3 human partners:{Q6UW56;Q92832;P84022}

28835 [Cluster 2622]GO:0051388+P biological\_process [name] positive regulation of nerve growth factor receptor signaling pathway [def] "Any process that activates or increases the frequency, rate or extent of the activity of the nerve growth factor receptor signaling pathway." [GOC

28836 Pathogen[ Q2Q067] interacts with 1 human partners:{Q15173}

28837 Pathogen[ P0C214] interacts with 1 human partners:{Q15173}

28838 Pathogen[ P03346] interacts with 1 human partners:{Q15173}

28839 Pathogen[ Q85601] interacts with 1 human partners:{Q15173}

28840 Pathogen[ P14079] interacts with 1 human partners:{Q15173}

28841 Pathogen[ P03383] interacts with 1 human partners:{Q15173}

28842 Pathogen[ P03410] interacts with 1 human partners:{Q15173}

28843 Pathogen[ P14075] interacts with 1 human partners:{Q15173}

28844 Pathogen[ P0C206] interacts with 1 human partners:{Q15173}

28845 Pathogen[ P03363] interacts with 1 human partners:{Q15173}

28846 [Cluster 2623]GO:0015949+P biological\_process [name] nucleobase-containing small molecule interconversion [def] "The chemical reactions and pathways by which a nucleobase, nucleoside or nucleotide small molecule is synthesized from another nucleobase, nucleoside or nucleotide small molecule." [GOC

28847 Pathogen[ Q2Q067] interacts with 5 human partners:{P22392;P35754;P31350;Q7LG56;P10599}

28848 Pathogen[ P0C214] interacts with 10 human partners:{P35754;P31350;P23919;Q16881;Q9NRF8;P23921;P10599;P22392;P17812;Q7LG56}

28849 Pathogen[ P03346] interacts with 5 human partners:{P31350;Q7LG56;P22392;P35754;P10599}

28850 Pathogen[ Q85601] interacts with 5 human partners:{P31350;P10599;Q7LG56;P22392;P35754}

28851 Pathogen[ P14079] interacts with 8 human partners:{P17812;P31350;Q7LG56;Q9NRF8;P23919;P35754;P22392;P10599}

28852 Pathogen[ P03383] interacts with 3 human partners:{P22392;P10599;P31350}

28853 Pathogen[ P03410] interacts with 8 human partners:{P10599;P31350;P35754;Q9NRF8;P17812;P23919;P23921;Q7LG56}

28854 Pathogen[ P14075] interacts with 3 human partners:{P31350;P22392;P10599}

28855 Pathogen[ P0C206] interacts with 5 human partners:{P22392;Q7LG56;P35754;P10599;P31350}

28856 Pathogen[ P03363] interacts with 1 human partners:{P35754}

28857 [Cluster 2624]GO:0051984+P biological\_process [name] positive regulation of chromosome segregation [def] "Any process that activates or increases the frequency, rate or extent of chromosome segregation, the process in which genetic material, in the form of chromosomes, is organized and then physically separated and apportioned to two or more sets." [GOC

28858 Pathogen[ Q2Q067] interacts with 1 human partners:{Q99741}

28859 Pathogen[ P0C214] interacts with 1 human partners:{Q99741}

28860 Pathogen[ P03346] interacts with 1 human partners:{Q99741}

28861 Pathogen[ Q85601] interacts with 1 human partners:{Q99741}

28862 Pathogen[ P14079] interacts with 1 human partners:{Q99741}

28863 Pathogen[ P03383] interacts with 1 human partners:{Q99741}

28864 Pathogen[ P03410] interacts with 1 human partners:{Q99741}

28865 Pathogen[ P14075] interacts with 1 human partners:{Q99741}

28866 Pathogen[ P0C206] interacts with 1 human partners:{Q99741}

28867 Pathogen[ P03363] interacts with 1 human partners:{Q99741}

28868 [Cluster 2625]GO:2001274+P biological\_process [name] negative regulation of glucose

import in response to insulin stimulus [def] "Any process that stops, prevents or reduces the frequency, rate or extent of glucose import in response to insulin stimulus." [GOC

28869 Pathogen[ Q2Q067] interacts with 2 human partners:{Q7Z2X4;Q8WU39}

28870 Pathogen[ P0C214] interacts with 2 human partners:{Q7Z2X4;Q8WU39}

28871 Pathogen[ P03346] interacts with 2 human partners:{Q7Z2X4;Q8WU39}

28872 Pathogen[ Q85601] interacts with 1 human partners:{Q7Z2X4}

28873 Pathogen[ P14079] interacts with 2 human partners:{Q8WU39;Q7Z2X4}

28874 Pathogen[ P03383] interacts with 1 human partners:{Q8WU39}

28875 Pathogen[ P03410] interacts with 2 human partners:{Q7Z2X4;Q8WU39}

28876 Pathogen[ P14075] interacts with 1 human partners:{Q8WU39}

28877 Pathogen[ P0C206] interacts with 2 human partners:{Q7Z2X4;Q8WU39}

28878 Pathogen[ P03363] interacts with 1 human partners:{Q8WU39}

28879 [Cluster 2626]GO:0032210+P biological\_process [name] regulation of telomere maintenance via telomerase [def] "Any process that modulates the frequency, rate or extent of the addition of telomeric repeats by telomerase." [GOC

28880 Pathogen[ Q2Q067] interacts with 1 human partners:{095271}

28881 Pathogen[ P0C214] interacts with 1 human partners:{095271}

28882 Pathogen[ P03346] interacts with 1 human partners:{095271}

28883 Pathogen[ Q85601] interacts with 1 human partners:{095271}

28884 Pathogen[ P14079] interacts with 1 human partners:{095271}

28885 Pathogen[ P03383] interacts with 1 human partners:{095271}

28886 Pathogen[ P03410] interacts with 1 human partners:{095271}

28887 Pathogen[ P14075] interacts with 1 human partners:{095271}

28888 Pathogen[ P0C206] interacts with 1 human partners:{095271}

28889 Pathogen[ P03363] interacts with 1 human partners:{095271}

28890 [Cluster 2627]GO:0007276+P biological\_process [name] gamete generation [def] "The generation and maintenance of gametes in a multicellular organism. A gamete is a haploid reproductive cell." [GOC

28891 Pathogen[ Q2Q067] interacts with 7 human partners:{Q99865;Q9BPZ2;Q00597;Q9UQR1;Q15797;Q9NW38;Q9BXW9}

28892 Pathogen[ P0C214] interacts with 7 human partners:{Q00597;Q99865;Q9BPZ2;Q9BXW9;Q15797;Q9UQR1;Q9NW38}

28893 Pathogen[ P03346] interacts with 11 human partners:{Q86UU5;Q9Y657;Q9UQR1;Q15797;Q9BPZ2;Q5JT82;Q00597;Q9BXW9;Q9NW38;Q99865;Q8NHV9}

28894 Pathogen[ Q85601] interacts with 6 human partners:{Q9UQR1;Q9BXW9;Q15797;Q00597;Q9BPZ2;Q9NW38}

28895 Pathogen[ P14079] interacts with 12 human partners:{Q9UQR1;Q9BPZ2;Q56A73;Q5TIA1;Q5JUX0;Q00597;Q9BXW9;Q15797;Q86UU5;Q99865;Q9NW38;Q9Y657}

28896 Pathogen[ P03383] interacts with 8 human partners:{Q9UQR1;Q86UU5;Q9BPZ2;Q9BXW9;Q15797;Q00597;Q99865;Q9NW38}

28897 Pathogen[ P03410] interacts with 11 human partners:{Q9BXW9;Q5JUX0;Q9BPZ2;Q99865;Q9UQR1;Q00597;Q15797;Q9Y657;Q9NW38;Q86UU5;Q5TIA1}

28898 Pathogen[ P14075] interacts with 7 human partners:{Q99865;Q9UQR1;Q9BPZ2;Q9NW38;Q86UU5;Q00597;Q9BXW9}

28899 Pathogen[ P0C206] interacts with 9 human partners:{Q99865;Q9BPZ2;Q9UQR1;Q9Y657;Q15797;Q00597;Q86UU5;Q9BXW9;Q9NW38}

28900 Pathogen[ P03363] interacts with 12 human partners:{Q9NW38;Q9BXW9;Q00597;Q9Y657;Q5JT82;Q15797;Q9BPZ2;P19883;Q86UU5;Q9UQR1;Q8NHV9;Q99865}

28901 [Cluster 2628]GO:0006629+P biological\_process [name] lipid metabolic process [def] "The chemical reactions and pathways involving lipids, compounds soluble in an organic solvent but not, or sparingly, in an aqueous solvent. Includes fatty acids\_ neutral fats, other fatty-acid esters, and soaps\_ long-chain (fatty) alcohols and sphingolipids\_ and other long-chain bases\_ glycolipids, phospholipids and sphingolipids\_ and carotenes, polyprenols, sterols, terpenes and other isoprenoids." [GOC

28902 Pathogen[ Q2Q067] interacts with 25 human partners:{Q9H5J4;O60543;P30084;P62140;O00204;P36956;Q8N9A8;Q9BW60;Q96G23;Q9GZR5;Q9UG56;Q92748;Q92539;Q15102;P36873;P62136;Q15185;A1L3X0;Q9HB03;Q9BPX1;O95125;P14324;Q9NPA3;Q16836;Q14693}

28903 Pathogen[ P0C214] interacts with 44 human partners:{Q9HA82;P30084;O75608;Q8N9A8;Q13907;Q9NXB9;P11413;P62140;P35558;Q9BXS1;P53396;O60543;Q9NPA3;O95125;Q9GZR5;P68402;P40939;Q9NPB8;Q9HB03;O14561;Q8TBF2;Q9NYP7;P23786;Q15102;Q13011;Q92539;A1L3X0;Q9BQK8;O00154;Q9BWD1;Q96G23;P62136;Q9BPX1;O00204;P14324;Q9UG56;P10909;P36873;P42765;Q9BW60;Q92748;Q15185;Q06520;Q14693}

28904 Pathogen[ P03346] interacts with 33 human partners:{Q9BW60;P62136;O00204;Q06520;O75608;P36956;Q16836;Q12772;Q9BPX1;Q15185;P23786;Q92748;Q01469;O95125;Q92539;Q15102;Q9BWD1;Q9H5J4;P36873;Q96G23;Q8N9A8;P51161;P14324;Q9HB03;Q99829;O75131;P42765;Q9UG56;P62140;O60543;Q9NPA3;P30084;Q14693}

28905 Pathogen[ Q85601] interacts with 29 human partners:{Q9UG56;A1L3X0;P51161;Q9BPX1;Q12772;O95125;Q9BW60;O60543;P62136;Q9H5J4;P36956;P36873;Q96G23;Q8N9A8;P14324;Q9HB03;Q9NPA3;Q15185;O00204;Q16836;Q9GZR5;Q9BWD1;P62140;Q13907;Q92539;P30084;Q92748;Q15102;Q14693}

28906 Pathogen[ P14079] interacts with 67 human partners: {Q9BXS1;O94830;O14773;Q9Y5U4;Q9NPH2;Q9BQK8;Q9NPB8;Q86VE9;P41238;O95125;Q9NP A3;Q14693;A1L3X0;P25705;Q9NUJ7;P36873;O60543;Q86W33;Q8N8W4;Q02083;Q13907;Q99829;Q8N9 A8;P62136;Q9HA82;Q92748;P30084;Q8NEL9;P10909;Q32NB8;Q9NRX5;P14324;O75608;O95822;Q9HB 03;Q0VD83;Q92539;Q96JX3;Q12772;P27544;Q9UG56;Q8NFR3;Q8NCG7;Q96G23;Q15102;Q9Y478;O145 61;P62140;Q13510;Q15185;Q8TCU4;Q969W0;Q9NZ20;Q9UKR5;Q8TBF2;P53602;Q7Z6Z6;Q99487;Q9GZ R5;Q9Y234;Q01469;Q9BW60;P81277;P36956;Q9H5J4;Q16836;O15503}

28907 Pathogen[ P03383] interacts with 19 human partners: {P62140;O60543;Q9BW60;Q9GZR5;Q9H5J4;Q16836;P36873;P62136;O95125;A1L3X0;Q9HB 03;P14324;Q15185;Q92748;Q8N9A8;Q92539;Q9NPA3;Q14693;Q9BPX1}

28908 Pathogen[ P03410] interacts with 70 human partners: {A1L3X0;Q6IED9;Q9BQK8;Q9NPH2;Q86VE9;P53602;P30084;P36956;P51161;Q9GZR5;Q8NC G7;Q9BPX1;Q02083;P25705;Q86W33;Q9H5J4;O95125;Q13011;P41238;Q9Y5U4;P62136;O00204;Q8TC U4;P27544;P55157;Q99829;P23786;Q92748;Q96G23;Q14693;P42765;Q9NPB8;O00154;Q13510;Q9Y2 34;Q9NRX5;P62140;Q9HA82;O75608;Q12772;Q96JX3;Q9BW60;O14561;Q15185;O94830;P36873;Q9NZ 20;Q16836;Q15102;Q9HB03;Q969W0;Q8N8W4;Q0VD83;Q13907;O60543;Q01469;P81277;Q7Z6Z6;Q8N9 A8;O15503;Q92539;Q8TBF2;Q9UG56;Q9NPA3;O95822;P14324;Q8NEL9;Q8NFR3;P10909;Q9BXS1}

28909 Pathogen[ P14075] interacts with 24 human partners: {Q9H5J4;Q9BW60;Q15102;Q8N9A8;Q02083;Q13510;Q9HB03;P62140;O14561;Q15185;P368 73;Q92748;P62136;A1L3X0;Q92539;Q9NPA3;O60543;Q16836;P14324;Q9GZR5;Q9UG56;Q969W0;O951 25;Q14693}

28910 Pathogen[ P0C206] interacts with 48 human partners: {Q9Y234;Q9NPA3;Q92539;Q96G23;P51161;Q8TCU4;Q9HB03;O75608;Q16836;Q15185;Q8TB F2;P36956;Q8NFR3;Q99829;O95125;P23786;Q9H5J4;O14561;Q9BPX1;P14324;P30084;Q13907;Q9BX S1;Q9HA82;Q969W0;Q9UG56;Q9BQK8;Q15102;O00204;Q02083;P10909;Q9BWD1;Q9NPB8;P62140;Q9GZ R5;O94830;P41238;O60543;Q01469;P36873;Q14693;Q12772;P62136;Q92748;A1L3X0;Q9BW60;Q8NE L9;Q8N9A8}

28911 Pathogen[ P03363] interacts with 22 human partners: {Q16836;Q99829;O60543;P62136;Q9H5J4;P36873;Q8N9A8;Q02083;Q92539;P62140;Q014 69;Q9BWD1;P51161;Q9BPX1;O00204;Q15185;O95125;Q92748;Q96G23;Q9NPA3;Q06520;Q15102}

28912 [Cluster 2629]GO:0000731+P biological\_process [name] DNA synthesis involved in DNA repair [def] "Synthesis of DNA that proceeds from the broken 3' single-strand DNA end uses the homologous intact duplex as the template." [PMID

28913 Pathogen[ Q2Q067] interacts with 3 human partners: {Q9Y253;Q15054;Q96S55}

28914 Pathogen[ P0C214] interacts with 3 human partners: {Q96S55;Q15054;Q9Y253}

28915 Pathogen[ P03346] interacts with 4 human partners: {Q9Y253;P55273;Q96S55;Q15054}

28916 Pathogen[ Q85601] interacts with 4 human partners: {P55273;Q15054;Q96S55;Q9Y253}

28917 Pathogen[ P14079] interacts with 4 human partners: {P55273;Q15054;Q96S55;Q9Y253}

28918 Pathogen[ P03383] interacts with 3 human partners: {Q9Y253;Q96S55;Q15054}

28919 Pathogen[ P03410] interacts with 4 human partners: {P55273;Q96S55;Q9Y253;Q15054}

28920 Pathogen[ P14075] interacts with 3 human partners: {Q9Y253;Q15054;Q96S55}

28921 Pathogen[ P0C206] interacts with 4 human partners: {Q9Y253;Q15054;P55273;Q96S55}

28922 Pathogen[ P03363] interacts with 3 human partners: {Q9Y253;Q96S55;Q15054}

28923 [Cluster 2630]GO:0061099+P biological\_process [name] negative regulation of protein tyrosine kinase activity [def] "Any process that decreases the rate, frequency, or extent of protein tyrosine kinase activity." [GOC

28924 Pathogen[ Q2Q067] interacts with 1 human partners: {O95684}

28925 Pathogen[ P0C214] interacts with 1 human partners: {O95684}

28926 Pathogen[ P03346] interacts with 3 human partners: {O95684;Q9P2D0;Q9C0H9}

28927 Pathogen[ Q85601] interacts with 2 human partners: {O95684;Q9P2D0}

28928 Pathogen[ P14079] interacts with 3 human partners: {O95684;Q9C0H9;Q9P2D0}

28929 Pathogen[ P03383] interacts with 2 human partners: {O95684;Q9C0H9}

28930 Pathogen[ P03410] interacts with 3 human partners: {O95684;Q9C0H9;Q9P2D0}

28931 Pathogen[ P14075] interacts with 2 human partners: {O95684;Q9C0H9}

28932 Pathogen[ P0C206] interacts with 3 human partners: {O95684;Q9C0H9;Q9P2D0}

28933 Pathogen[ P03363] interacts with 3 human partners: {O95684;Q9P2D0;Q9C0H9}

28934 [Cluster 2631]GO:0006334+P biological\_process [name] nucleosome assembly [def] "The aggregation, arrangement and bonding together of a nucleosome, the beadlike structural units of eukaryotic chromatin composed of histones and DNA." [GOC

28935 Pathogen[ Q2Q067] interacts with 31 human partners: {Q9NYP9;Q8N831;Q96H22;Q71F23;Q96NT1;Q13352;Q6IPU0;Q86VY4;Q01105;Q99457;Q9H3 R5;P49450;P06748;Q9ULW6;Q09028;Q92674;O43482;P25440;Q99733;Q96T23;Q8NG31;Q9H0U9;Q9Y2 94;Q9H489;Q9BU64;Q16576;Q8NCD3;Q01534;P55209;Q6P0N0;Q9H2G4}

28936 Pathogen[ P0C214] interacts with 37 human partners: {Q6P0N0;P06748;P0CW01;Q99457;Q6IPU0;Q9H489;P0CV99;Q01105;Q09028;Q01534;P494 50;Q9UJ04;Q8NCD3;O43482;Q92674;Q8N831;Q9NYP9;P25440;Q13352;A6NFF2;Q16576;P0CW00;O602 64;Q9H2G4;Q9Y294;Q9H3R5;Q96NT1;Q8NG31;Q96T23;Q9H0U9;Q86VY4;Q71F23;Q99733;Q9ULW6;Q9BU 64;P0CV98;A6NKD2}

28937 Pathogen[ P03346] interacts with 40 human partners: {Q01534;Q7L2Z9;Q8WYB5;P06748;Q9BS16;Q92674;Q9UJ04;Q01105;Q99733;Q99457;Q9H2 G4;O43482;Q6P0N0;P25440;Q8NCD3;Q92794;Q86VY4;O60264;Q09028;Q16695;Q96T23;Q16576;Q9H0 U9;Q8N831;Q9BU64;P10412;P49450;Q6IPU0;Q9H489;Q96NT1;Q8NG31;Q9NYP9;P55209;Q9H3R5;Q9Y2 94;Q96H22;Q9ULW6;Q71F23;Q13352;A6NFF2}

28938 Pathogen[ Q85601] interacts with 37 human partners: {A6NFF2;Q99733;Q96NT1;Q9H489;Q96T23;Q9Y294;Q01105;P0CW01;Q99457;Q01534;Q71F 23;Q8NG31;P0CV98;Q9H3R5;P0CW00;Q8NCD3;Q92674;Q86VY4;Q8N831;Q13352;Q9UJ04;Q9NYP9;Q9BU

64;Q16576;P49450;P06748;Q09028;A6NKD2;P25440;Q9H2G4;O60264;P0CV99;P55209;Q9H0U9;Q6P0  
NO;O43482;Q9ULW6}

28939 Pathogen[ P14079] interacts with 38 human  
partners: {Q9H0U9;Q6P0N0;Q8N831;Q01105;Q96T23;P10412;O43482;Q01534;Q8IZA3;Q99733;Q8NG  
31;Q6IPU0;A6NFF2;Q16576;Q96NT1;Q71F23;P55209;Q9H2G4;P49450;Q96H22;O60264;Q9NYP9;P067  
48;Q9H3R5;Q9UJ04;P25440;Q8NCD3;Q92674;Q9BU64;Q86VY4;Q9Y294;Q09028;Q9H489;Q13352;Q7L2  
Z9;Q9ULW6;P07305;Q99457}

28940 Pathogen[ P03383] interacts with 30 human  
partners: {Q09028;Q01105;Q6IPU0;P06748;Q86VY4;P25440;Q96NT1;Q99457;Q9NYP9;Q96H22;Q96T  
23;Q13352;P55209;Q71F23;Q8N831;Q99733;Q9BU64;Q9H489;Q9Y294;Q9H0U9;Q9H2G4;Q8NCD3;Q8NG  
31;Q01534;Q6P0N0;Q92674;Q9H3R5;O43482;Q16576;Q9ULW6}

28941 Pathogen[ P03410] interacts with 36 human  
partners: {Q99457;Q99733;Q9H3R5;Q96T23;Q96H22;Q9H0U9;Q9UJ04;Q8NG31;Q6IPU0;Q01534;Q9NY  
P9;P10412;Q92674;Q01105;P06748;Q6P0N0;Q8NCD3;Q16576;Q8N831;Q09028;Q9H489;Q9Y294;O434  
82;Q86VY4;Q71F23;P49450;P55209;O60264;Q9H2G4;Q9ULW6;A6NFF2;Q96NT1;Q13352;Q7L2Z9;Q9BU  
64;P25440}

28942 Pathogen[ P14075] interacts with 29 human  
partners: {Q16576;Q6IPU0;P25440;Q92674;Q99457;Q96H22;Q01105;Q9H2G4;P55209;Q9H3R5;Q090  
28;Q9BU64;Q99733;Q9NYP9;Q01534;P06748;Q9H0U9;Q8N831;Q8NCD3;Q96T23;Q9Y294;Q86VY4;Q133  
52;Q8NG31;O43482;Q6P0N0;Q71F23;Q96NT1;Q9ULW6}

28943 Pathogen[ P0C206] interacts with 41 human  
partners: {Q96NT1;Q99733;Q6IPU0;A6NFF2;Q7L2Z9;Q86VY4;Q9NYP9;Q96T23;P0CV98;Q9BU64;Q015  
34;Q92674;A6NKD2;Q99457;Q9H3R5;Q9ULW6;P49450;Q8NCD3;Q13352;Q9UJ04;O43482;Q9H2G4;Q6P0  
NO;P55209;Q9H489;P25440;Q9H0U9;Q96H22;Q9Y294;Q16576;P10412;Q09028;P0CW01;Q8N831;P067  
48;Q71F23;Q01105;Q8NG31;P0CW00;P0CV99;O60264}

28944 Pathogen[ P03363] interacts with 34 human  
partners: {A6NFF2;Q8IZA3;Q6P0N0;Q9NYP9;Q92674;Q9UJ04;Q09028;Q99733;Q9Y294;Q16695;Q96N  
T1;P06748;Q9H489;O60264;Q96T23;Q9H0U9;Q99457;Q16576;P49450;Q9H2G4;P55209;Q86VY4;P104  
12;Q8NG31;Q8NCD3;Q71F23;Q01534;P25440;Q9H3R5;O43482;Q01105;Q13352;Q9ULW6;Q8N831}

28945 [Cluster 2632]GO:0035115+P biological\_process [name] embryonic forelimb morphogenesis  
[def] "The process, occurring in the embryo, by which the anatomical structures of the  
forelimb are generated and organized. The forelimbs are the front limbs of an animal."  
[ISBN

28946 Pathogen[ Q2Q067] interacts with 3 human partners: {P28356;P35548;Q03112}

28947 Pathogen[ P0C214] interacts with 3 human partners: {Q03112;Q9NW07;P35548}

28948 Pathogen[ P03346] interacts with 10 human  
partners: {P31271;P29373;Q05925;P35548;Q9NW07;Q68CZ1;O95076;Q03112;P28356;Q99593}

28949 Pathogen[ Q85601] interacts with 4 human partners: {Q03112;Q9NW07;P35548;P31271}

28950 Pathogen[ P14079] interacts with 4 human partners: {Q68CZ1;P31271;P28360;Q9NW07}

28951 Pathogen[ P03383] interacts with 2 human partners: {Q03112;P35548}

28952 Pathogen[ P03410] interacts with 4 human partners: {Q03112;P35548;Q9NW07;Q68CZ1}

28953 Pathogen[ P14075] interacts with 2 human partners: {P35548;Q03112}

28954 Pathogen[ P0C206] interacts with 6 human  
partners: {Q9NW07;P29373;Q03112;P35548;P31271;P28356}

28955 Pathogen[ P03363] interacts with 8 human  
partners: {Q03112;P28356;P31271;Q9NW07;P35548;P29373;Q05925;O95076}

28956 [Cluster 2633]GO:0046716+P biological\_process [name] muscle cell homeostasis [def]  
"The cellular homeostatic process that preserves a muscle cell in a stable functional or  
structural state." [GOC

28957 Pathogen[ Q2Q067] interacts with 2 human partners: {P11831;P11532}

28958 Pathogen[ P0C214] interacts with 2 human partners: {P11831;P11532}

28959 Pathogen[ P03346] interacts with 2 human partners: {P11831;P11532}

28960 Pathogen[ Q85601] interacts with 2 human partners: {P11831;P11532}

28961 Pathogen[ P14079] interacts with 3 human partners: {P11532;P16298;Q96LD1}

28962 Pathogen[ P03383] interacts with 2 human partners: {P11831;P11532}

28963 Pathogen[ P03410] interacts with 3 human partners: {P11831;P11532;Q96LD1}

28964 Pathogen[ P14075] interacts with 2 human partners: {P11532;P11831}

28965 Pathogen[ P0C206] interacts with 2 human partners: {P11831;P11532}

28966 Pathogen[ P03363] interacts with 2 human partners: {P11831;P11532}

28967 [Cluster 2634]GO:0034599+P biological\_process [name] cellular response to oxidative  
stress [def] "Any process that results in a change in state or activity of a cell (in  
terms of movement, secretion, enzyme production, gene expression, etc.) as a result of  
oxidative stress, a state often resulting from exposure to high levels of reactive  
oxygen species, e.g. superoxide anions, hydrogen peroxide (H2O2), and hydroxyl  
radicals." [GOC

28968 Pathogen[ Q2Q067] interacts with 7 human  
partners: {Q8TCS8;Q16236;Q99497;P41161;Q6IQ32;P16455;Q9BQE4}

28969 Pathogen[ P0C214] interacts with 9 human  
partners: {Q6IQ32;P11413;Q99497;Q99807;Q8TCS8;P16455;Q9BQE4;P41161;Q16236}

28970 Pathogen[ P03346] interacts with 6 human  
partners: {P41161;Q16236;Q8TCS8;Q6IQ32;Q12778;Q99497}

28971 Pathogen[ Q85601] interacts with 7 human  
partners: {Q99497;Q16236;P16455;Q6IQ32;Q8TCS8;P41161;Q9BQE4}

28972 Pathogen[ P14079] interacts with 8 human  
partners: {Q99807;Q9BQE4;Q99497;P16455;P41161;Q16236;Q6IQ32;Q8TCS8}

28973 Pathogen[ P03383] interacts with 5 human

28974 partners:{Q8TCS8;Q6IQ32;P41161;Q9BQE4;Q16236}  
Pathogen[ P03410] interacts with 8 human

28975 partners:{Q8TCS8;Q99497;Q16236;Q9BQE4;P41161;Q6IQ32;P16455;Q99807}  
28976 Pathogen[ P14075] interacts with 4 human partners:{Q9BQE4;Q6IQ32;Q8TCS8;Q16236}  
28977 Pathogen[ P0C206] interacts with 8 human  
28977 partners:{Q8TCS8;Q99497;Q9BQE4;Q6IQ32;Q99807;Q16236;P41161;P16455}  
28978 Pathogen[ P03363] interacts with 3 human partners:{Q16236;P41161;Q6IQ32}  
28978 [Cluster 2635]GO:0007050+P biological\_process [name] cell cycle arrest [def] "A regulatory process that halts progression through the cell cycle during one of the normal phases (G1, S, G2, M)." [GOC

28979 Pathogen[ Q2Q067] interacts with 57 human  
partners:{P04156;Q9UM63;O43290;Q9NNW5;O00213;Q93034;P42773;Q8IZD2;Q9UQ80;P06400;P01106;Q99816;O75807;O75794;Q92870;P58004;Q9UNL4;O15350;P35638;O14896;O15355;Q8N726;P58005;P58340;P27797;P24522;Q9Y5P8;Q9Y6P5;Q99728;Q92831;Q07666;O60934;P84022;P10914;O00255;P78344;Q96Q89;Q13616;P50613;P38936;Q13618;P12757;P35813;Q13619;Q3YBR2;P42771;Q9NS23;Q8IXT1;P46527;Q9GZQ3;P49918;Q13617;P42772;Q8N9B5;O60477;Q00534;Q96A56}

28980 Pathogen[ P0C214] interacts with 57 human  
partners:{Q9Y6P5;O00213;Q13619;Q13617;P35813;Q969Z0;P24522;Q99728;Q9Y376;P12757;Q9NS23;P50613;O15350;O75807;P84022;P46527;P78344;Q9UNL4;P10914;Q13618;Q93034;Q9GZQ3;Q8N726;O60477;O75794;P38936;Q00534;Q96Q89;Q8IXT1;Q07666;P49918;O14896;P42771;O60381;Q13616;Q3YBR2;P42773;Q99816;Q8N9B5;Q92831;P58340;P04156;P27797;O43290;Q96A56;Q9Y5P8;Q9NNW5;Q9UM63;Q9UQ80;P01106;P06400;O00255;Q92870;P42772;P35638;P58004;Q8IZD2}

28981 Pathogen[ P03346] interacts with 61 human  
partners:{O00213;P35813;O43290;P55273;Q8N9B5;Q13616;Q9UNL4;P12757;P35638;Q9UQ80;P06400;Q99728;Q96A56;P42772;Q13618;P78344;Q99816;P58340;Q92831;O15350;P49918;Q9UM63;P42771;Q9Y376;Q93034;Q92870;Q9Y5P8;P01106;Q07666;P84022;Q16667;O60381;O00255;O60477;P10914;Q3YBR2;O14896;Q96Q89;P98177;P42773;P27797;O60934;Q13619;P04156;O15355;Q00534;Q8IXT1;P38936;Q9Y6P5;Q8N726;P46527;Q9GZQ3;Q9NS23;O75807;Q8IZD2;P58005;P58004;P24522;Q9NNW5;O75794;Q13617}

28982 Pathogen[ Q85601] interacts with 58 human  
partners:{Q3YBR2;P01106;Q99816;O00213;O14896;P55273;Q07666;Q9UQ80;P06400;P42772;Q9Y6P5;Q969Z0;Q9NY30;P12757;Q99728;O75794;Q13616;Q9UNL4;P24522;Q9Y376;Q9GZQ3;P27797;Q92831;Q9NS23;P10914;Q9NNW5;Q96Q89;O15355;Q8N726;P58340;Q9UM63;O00255;P42771;P78344;P50613;O43290;Q96A56;P42773;P84022;P49918;Q92870;P04156;O15350;P38936;Q00534;Q13618;P35813;O75807;Q13619;Q8N9B5;Q8IZD2;Q93034;Q9Y5P8;P46527;P35638;O60934;Q13617;O60381}

28983 Pathogen[ P14079] interacts with 61 human  
partners:{Q96A56;Q96DY7;O60381;Q9NS23;Q9GZQ3;P52564;O14896;Q8N9B5;P04156;Q13618;Q9UNL4;P58005;O75807;Q8N726;O00213;O60934;P49918;O15350;O43290;P55273;O60477;P78344;P35813;Q9Y6P5;Q8IXT1;P50613;P54826;Q96Q89;Q07666;P38936;Q93034;Q9Y478;Q9NS64;P24522;Q9NY30;Q43903;Q969Z0;P35638;P01106;P58004;Q13617;Q3YBR2;Q9NNW5;P29459;P46527;P12757;P42773;Q13616;Q9Y5P8;O75794;Q99816;Q9UM63;O15355;Q9UQ80;O00255;Q9Y376;Q13619;P10914;P58340;Q92870;P42771}

28984 Pathogen[ P03383] interacts with 49 human  
partners:{Q13616;O00213;P10914;Q92831;Q8IXT1;O75794;Q96A56;O43290;P04156;P58340;P01106;Q93034;P24522;P35638;Q99816;Q9UNL4;Q9GZQ3;Q00534;P35813;P06400;Q13618;Q92870;Q969Z0;Q9Y5P8;P84022;P50613;P42772;O14896;P46527;O15350;Q96Q89;O00255;Q07666;P78344;O15355;P58004;P42771;Q13617;Q9UQ80;P49918;Q8N9B5;Q9UM63;P12757;O75807;Q3YBR2;Q9NNW5;O60477;Q8N726;P27797}

28985 Pathogen[ P03410] interacts with 65 human  
partners:{P84022;Q92831;Q96DY7;P42771;Q96Q89;P46527;O75794;O15355;P35638;P35813;O43903;O14896;Q00534;P42772;Q8N726;P01106;Q9NY30;Q9UQ80;P24522;Q9UNL4;P55273;Q9NS23;Q9NS64;O00213;P06400;P50613;Q07666;O60381;P58340;Q99816;Q13618;Q9Y6P5;P38936;Q9Y376;Q3YBR2;P10914;Q8IXT1;Q9UM63;P04156;P12757;O75807;P54826;P58005;Q13616;Q8N9B5;Q96A56;Q13619;O15350;Q13617;P49918;P58004;O43290;O60477;Q9GZQ3;O00255;Q969Z0;P42773;Q93034;O60934;P29459;P78344;Q9Y5P8;Q9NNW5;P27797;Q92870}

28986 Pathogen[ P14075] interacts with 54 human  
partners:{Q9Y5P8;O00213;P35813;Q8IXT1;Q9UM63;Q969Z0;Q93034;Q13618;Q92831;Q07666;Q96DY7;P50613;Q9NS64;Q00534;P78344;P42771;P04156;Q92870;P35638;Q9GZQ3;O75794;P58004;P01106;P46527;Q3YBR2;P12757;O00255;P58005;P49918;O15350;P27797;O75807;P06400;O14896;Q9UQ80;O60477;Q9Y6P5;Q9UNL4;P24522;P42772;P84022;Q99816;Q13616;P10914;O43290;Q9NNW5;Q13617;O15355;Q96Q89;Q8N9B5;P54826;Q96A56;Q8N726;P58340}

28987 Pathogen[ P0C206] interacts with 65 human  
partners:{P84022;P10914;P58340;P27797;O75794;Q96Q89;Q9GZQ3;P24522;Q8N726;P04156;Q9NY30;O75807;O60934;O60477;O00255;Q9NS64;Q9UM63;Q8IXT1;P42771;P42772;Q99816;P58004;Q9Y376;Q07666;Q13616;Q96A56;Q92831;Q9NNW5;Q8N9B5;O43290;O15355;P42773;O00213;Q13619;Q13617;P50613;Q13618;P12757;Q969Z0;Q99728;P55273;P46527;Q92870;P38936;O60381;O14896;P78344;O15350;P01106;Q9UQ80;Q9Y6P5;Q93034;Q9NS23;P54826;Q3YBR2;P58005;Q9Y5P8;P35638;Q9UNL4;Q8IZD2;P35813;Q00534;P06400;Q96DY7;P49918}

28988 Pathogen[ P03363] interacts with 53 human  
partners:{Q3YBR2;P49918;Q9Y5P8;Q07666;O15355;O14896;P58004;O75794;P58340;Q92831;P12757;O00213;Q9GZQ3;Q13618;Q16667;Q13617;Q8NHY3;P04156;Q9UM63;O60381;P06400;P01106;Q9UQ80;Q9UNL4;Q00534;Q13619;Q96A56;Q13616;P42772;P27797;Q92870;O60477;P84022;P24522;O43290;P35638;P10914;Q9Y6P5;O75807;Q9Y376;Q9NS23;Q8N726;Q99816;Q96Q89;P58005;Q93034;Q99728;P42773;P78344;Q8N9B5;P42771;Q9NNW5;Q8IXT1}

28989 [Cluster 2636]GO:0002361+P biological\_process [name] CD4-positive, CD25-positive, alpha-beta regulatory T cell differentiation [def] "The process in which a precursor

cell type acquires the specialized features of a CD4-positive, CD25-positive, alpha-beta regulatory T cell." [GOC

28990 Pathogen[ Q2Q067] interacts with 1 human partners:{075376}

28991 Pathogen[ P0C214] interacts with 1 human partners:{075376}

28992 Pathogen[ P03346] interacts with 1 human partners:{075376}

28993 Pathogen[ Q85601] interacts with 1 human partners:{075376}

28994 Pathogen[ P14079] interacts with 1 human partners:{075376}

28995 Pathogen[ P03383] interacts with 1 human partners:{075376}

28996 Pathogen[ P03410] interacts with 1 human partners:{075376}

28997 Pathogen[ P14075] interacts with 1 human partners:{075376}

28998 Pathogen[ P0C206] interacts with 1 human partners:{075376}

28999 Pathogen[ P03363] interacts with 1 human partners:{075376}

29000 [Cluster 2637]GO:0019432+P biological\_process [name] triglyceride biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of a triglyceride, any triester of glycerol." [ISBN

29001 Pathogen[ Q2Q067] interacts with 8 human partners:{Q9H5J4;P32189;Q9BW60;Q9GZR5;Q92539;A1L3X0;Q9HB03;Q14693}

29002 Pathogen[ P0C214] interacts with 12 human partners:{Q9NXB9;Q8N335;P53396;Q9GZR5;P32189;Q9HB03;Q9NYP7;Q92539;A1L3X0;Q9BW60;Q14693;P21695}

29003 Pathogen[ P03346] interacts with 6 human partners:{Q9BW60;Q92539;Q9H5J4;Q9HB03;P32189;Q14693}

29004 Pathogen[ Q85601] interacts with 8 human partners:{A1L3X0;P32189;Q9BW60;Q9H5J4;Q9HB03;Q9GZR5;Q92539;Q14693}

29005 Pathogen[ P14079] interacts with 9 human partners:{Q14693;A1L3X0;P32189;Q9HB03;Q92539;Q9GZR5;P21695;Q9BW60;Q9H5J4}

29006 Pathogen[ P03383] interacts with 8 human partners:{Q9BW60;Q9GZR5;Q9H5J4;A1L3X0;Q9HB03;P32189;Q92539;Q14693}

29007 Pathogen[ P03410] interacts with 9 human partners:{A1L3X0;Q9GZR5;Q9H5J4;Q14693;Q9BW60;Q9HB03;P32189;Q92539;P21695}

29008 Pathogen[ P14075] interacts with 8 human partners:{Q9H5J4;Q9BW60;P32189;Q9HB03;A1L3X0;Q92539;Q9GZR5;Q14693}

29009 Pathogen[ P0C206] interacts with 8 human partners:{Q92539;Q9HB03;P32189;Q9H5J4;Q9GZR5;Q14693;A1L3X0;Q9BW60}

29010 Pathogen[ P03363] interacts with 2 human partners:{Q9H5J4;Q92539}

29011 [Cluster 2638]GO:0051246+P biological\_process [name] regulation of protein metabolic process [def] "Any process that modulates the frequency, rate or extent of the chemical reactions and pathways involving a protein." [GOC

29012 Pathogen[ Q2Q067] interacts with 3 human partners:{Q13619;Q9HC62;P60953}

29013 Pathogen[ P0C214] interacts with 3 human partners:{Q13619;P60953;Q9HC62}

29014 Pathogen[ P03346] interacts with 3 human partners:{P60953;Q9HC62;Q13619}

29015 Pathogen[ Q85601] interacts with 3 human partners:{Q9HC62;P60953;Q13619}

29016 Pathogen[ P14079] interacts with 2 human partners:{Q9HC62;Q13619}

29017 Pathogen[ P03383] interacts with 2 human partners:{P60953;Q9HC62}

29018 Pathogen[ P03410] interacts with 3 human partners:{Q9HC62;P60953;Q13619}

29019 Pathogen[ P14075] interacts with 2 human partners:{P60953;Q9HC62}

29020 Pathogen[ P0C206] interacts with 3 human partners:{Q9HC62;Q13619;P60953}

29021 Pathogen[ P03363] interacts with 3 human partners:{Q13619;Q9HC62;P60953}

29022 [Cluster 2639]GO:0051974+P biological\_process [name] negative regulation of telomerase activity [def] "Any process that stops or reduces the activity of the enzyme telomerase, which catalyzes of the reaction

29023 Pathogen[ Q2Q067] interacts with 3 human partners:{P54274;O00255;Q96BK5}

29024 Pathogen[ P0C214] interacts with 3 human partners:{Q96BK5;O00255;P54274}

29025 Pathogen[ P03346] interacts with 4 human partners:{P54274;O00255;Q9NUX5;Q96BK5}

29026 Pathogen[ Q85601] interacts with 3 human partners:{Q96BK5;O00255;P54274}

29027 Pathogen[ P14079] interacts with 4 human partners:{P54274;Q9NUX5;Q96BK5;O00255}

29028 Pathogen[ P03383] interacts with 3 human partners:{Q96BK5;O00255;P54274}

29029 Pathogen[ P03410] interacts with 4 human partners:{Q9NUX5;P54274;Q96BK5;O00255}

29030 Pathogen[ P14075] interacts with 3 human partners:{Q96BK5;O00255;P54274}

29031 Pathogen[ P0C206] interacts with 4 human partners:{O00255;Q96BK5;P54274;Q9NUX5}

29032 Pathogen[ P03363] interacts with 3 human partners:{Q96BK5;P54274;Q9NUX5}

29033 [Cluster 2640]GO:0034644+P biological\_process [name] cellular response to UV [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an ultraviolet radiation (UV light) stimulus. Ultraviolet radiation is electromagnetic radiation with a wavelength in the range of 10 to 380 nanometers." [GOC

29034 Pathogen[ Q2Q067] interacts with 10 human partners:{P25490;P01106;Q9Y3T9;O15350;Q14934;P30304;Q9BSD3;Q969H0;Q9ULG1;P27986}

29035 Pathogen[ P0C214] interacts with 9 human partners:{Q9Y3T9;O15350;Q9ULG1;Q14934;Q969H0;Q9BSD3;P30304;P27986;P01106}

29036 Pathogen[ P03346] interacts with 10 human partners:{Q9BSD3;Q9ULG1;P25490;P30304;O15350;Q14934;P01106;Q9Y3T9;Q969H0;P27986}

29037 Pathogen[ Q85601] interacts with 9 human partners:{P01106;Q969H0;P25490;P30304;P27986;Q14934;Q9ULG1;Q9Y3T9;O15350}

29038 Pathogen[ P14079] interacts with 9 human partners:{Q9ULG1;Q969H0;Q9BSD3;P30304;O15350;Q9Y3T9;Q14934;P01106;P25490}

29039 Pathogen[ P03383] interacts with 8 human partners:{P27986;P01106;P30304;Q9Y3T9;Q14934;O15350;Q969H0;Q9BSD3}

29040 Pathogen[ P03410] interacts with 10 human partners:{P27986;Q9BSD3;P01106;Q9ULG1;Q9Y3T9;P25490;Q969H0;P30304;O15350;Q14934}

29041 Pathogen[ P14075] interacts with 8 human partners:{P01106;O15350;Q14934;P27986;P30304;Q9Y3T9;Q9BSD3;Q969H0}

29042 Pathogen[ P0C206] interacts with 10 human partners:{P25490;Q969H0;P27986;Q9ULG1;Q14934;P30304;O15350;P01106;Q9Y3T9;Q9BSD3}

29043 Pathogen[ P03363] interacts with 9 human partners:{Q9BSD3;Q9ULG1;P25490;P01106;P30304;Q969H0;Q9Y3T9;Q14934;P27986}

29044 [Cluster 2641]GO:0030220+P biological\_process [name] platelet formation [def] "The process in which platelets bud from long processes extended by megakaryocytes." [GOC

29045 Pathogen[ Q2Q067] interacts with 4 human partners:{P15976;P11831;Q8IX07;P35579}

29046 Pathogen[ P0C214] interacts with 2 human partners:{P11831;Q8IX07}

29047 Pathogen[ P03346] interacts with 6 human partners:{P11831;P35579;P17542;P15976;Q96AX1;Q8IX07}

29048 Pathogen[ Q85601] interacts with 4 human partners:{P11831;P15976;P35579;Q8IX07}

29049 Pathogen[ P14079] interacts with 5 human partners:{P35579;Q06413;P15976;Q96AX1;Q8IX07}

29050 Pathogen[ P03383] interacts with 2 human partners:{P11831;P35579}

29051 Pathogen[ P03410] interacts with 5 human partners:{P11831;P35579;Q8IX07;P15976;Q96AX1}

29052 Pathogen[ P14075] interacts with 2 human partners:{P11831;P35579}

29053 Pathogen[ P0C206] interacts with 5 human partners:{P15976;Q96AX1;P35579;P11831;Q8IX07}

29054 Pathogen[ P03363] interacts with 2 human partners:{P35579;P11831}

29055 [Cluster 2642]GO:0070584+P biological\_process [name] mitochondrion morphogenesis [def] "The process in which the anatomical structures of a mitochondrion are generated and organized." [GOC

29056 Pathogen[ Q2Q067] interacts with 4 human partners:{Q8TCS8;Q9GZY8;Q7Z2X4;Q04837}

29057 Pathogen[ P0C214] interacts with 5 human partners:{Q7Z2X4;Q99807;Q8TCS8;Q04837;Q9GZY8}

29058 Pathogen[ P03346] interacts with 4 human partners:{Q7Z2X4;Q8TCS8;Q04837;Q9GZY8}

29059 Pathogen[ Q85601] interacts with 4 human partners:{Q7Z2X4;Q8TCS8;Q04837;Q9GZY8}

29060 Pathogen[ P14079] interacts with 5 human partners:{Q04837;Q99807;Q9GZY8;Q7Z2X4;Q8TCS8}

29061 Pathogen[ P03383] interacts with 3 human partners:{Q8TCS8;Q04837;Q9GZY8}

29062 Pathogen[ P03410] interacts with 5 human partners:{Q8TCS8;Q9GZY8;Q04837;Q7Z2X4;Q99807}

29063 Pathogen[ P14075] interacts with 3 human partners:{Q9GZY8;Q8TCS8;Q04837}

29064 Pathogen[ P0C206] interacts with 5 human partners:{Q7Z2X4;Q8TCS8;Q99807;Q04837;Q9GZY8}

29065 Pathogen[ P03363] interacts with 2 human partners:{Q04837;Q9GZY8}

29066 [Cluster 2643]GO:0007258+P biological\_process [name] JUN phosphorylation [def] "The process of introducing a phosphate group into a JUN protein." [GOC

29067 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9UQF2;P45984}

29068 Pathogen[ P0C214] interacts with 2 human partners:{Q9UQF2;P45984}

29069 Pathogen[ P03346] interacts with 2 human partners:{P45984;Q9UQF2}

29070 Pathogen[ Q85601] interacts with 2 human partners:{Q9UQF2;P45984}

29071 Pathogen[ P14079] interacts with 4 human partners:{P53779;Q9UQF2;P45984;P45983}

29072 Pathogen[ P03383] interacts with 2 human partners:{Q9UQF2;P45984}

29073 Pathogen[ P03410] interacts with 3 human partners:{P45984;P53779;Q9UQF2}

29074 Pathogen[ P14075] interacts with 2 human partners:{Q9UQF2;P45984}

29075 Pathogen[ P0C206] interacts with 2 human partners:{P45984;Q9UQF2}

29076 Pathogen[ P03363] interacts with 1 human partners:{Q9UQF2}

29077 [Cluster 2644]GO:0021702+P biological\_process [name] cerebellar Purkinje cell differentiation [def] "The process in which neuroblasts acquire specialized structural and/or functional features that characterize the mature cerebellar Purkinje cell. Differentiation includes the processes involved in commitment of a neuroblast to a Purkinje cell fate. A Purkinje cell is an inhibitory GABAergic neuron found in the cerebellar cortex that projects to the deep cerebellar nuclei and brain stem." [GO\_REF

29078 Pathogen[ Q2Q067] interacts with 2 human partners:{Q99700;Q86U70}

29079 Pathogen[ P0C214] interacts with 2 human partners:{Q99700;Q86U70}

29080 Pathogen[ P03346] interacts with 4 human partners:{Q86U70;Q99700;Q9H2C1;P35398}

29081 Pathogen[ Q85601] interacts with 2 human partners:{Q86U70;Q99700}

29082 Pathogen[ P14079] interacts with 4 human partners:{P35398;Q99700;Q86U70;Q9UPW5}

29083 Pathogen[ P03383] interacts with 2 human partners:{Q86U70;Q99700}

29084 Pathogen[ P03410] interacts with 3 human partners:{Q99700;Q9UPW5;Q86U70}

29085 Pathogen[ P14075] interacts with 2 human partners:{Q86U70;Q99700}

29086 Pathogen[ P0C206] interacts with 5 human partners:{P35398;Q99700;Q9H2C1;Q86U70;Q9UPW5}

29087 Pathogen[ P03363] interacts with 3 human partners:{Q86U70;P35398;Q99700}

29088 [Cluster 2645]GO:0002011+P biological\_process [name] morphogenesis of an epithelial sheet [def] "The process in which the anatomical structures of an epithelial sheet are generated and organized. An epithelial sheet is a flat surface consisting of closely packed epithelial cells." [GOC



29089 Pathogen[ Q2Q067] interacts with 4 human partners:{P17483;P11831;P14652;O15111}

29090 Pathogen[ POC214] interacts with 2 human partners:{O15111;P11831}

29091 Pathogen[ P03346] interacts with 4 human partners:{O15111;P11831;P14652;P17483}

29092 Pathogen[ Q85601] interacts with 2 human partners:{P11831;O15111}

29093 Pathogen[ P14079] interacts with 1 human partners:{Q14118}

29094 Pathogen[ P03383] interacts with 2 human partners:{P11831;O15111}

29095 Pathogen[ P03410] interacts with 3 human partners:{P11831;O15111;Q14118}

29096 Pathogen[ P14075] interacts with 2 human partners:{O15111;P11831}

29097 Pathogen[ POC206] interacts with 4 human partners:{P17483;P14652;O15111;P11831}

29098 Pathogen[ P03363] interacts with 4 human partners:{O15111;P17483;P11831;P14652}

29099 [Cluster 2646]GO:0032332+P biological\_process [name] positive regulation of chondrocyte differentiation [def] "Any process that activates or increases the frequency, rate or extent of chondrocyte differentiation." [GOC

29100 Pathogen[ Q2Q067] interacts with 5 human partners:{P35712;Q05516;Q04206;P84022;P35711}

29101 Pathogen[ POC214] interacts with 5 human partners:{P35711;P84022;Q04206;P35712;Q05516}

29102 Pathogen[ P03346] interacts with 6 human partners:{P31270;Q04206;P84022;Q05516;P35712;P35711}

29103 Pathogen[ Q85601] interacts with 5 human partners:{P35712;P35711;Q04206;Q05516;P84022}

29104 Pathogen[ P14079] interacts with 3 human partners:{P35711;P35712;Q05516}

29105 Pathogen[ P03383] interacts with 5 human partners:{P35712;Q05516;P84022;P35711;Q04206}

29106 Pathogen[ P03410] interacts with 3 human partners:{P84022;Q04206;P35712}

29107 Pathogen[ P14075] interacts with 5 human partners:{Q04206;P35711;P35712;Q05516;P84022}

29108 Pathogen[ POC206] interacts with 5 human partners:{P84022;Q05516;P35711;Q04206;P35712}

29109 Pathogen[ P03363] interacts with 5 human partners:{P35711;Q04206;P84022;P35712;Q05516}

29110 [Cluster 2647]GO:0097067+P biological\_process [name] cellular response to thyroid hormone stimulus [def] "A change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a thyroid hormone stimulus." [GOC

29111 Pathogen[ Q2Q067] interacts with 2 human partners:{P15976;P25791}

29112 Pathogen[ POC214] interacts with 1 human partners:{P25791}

29113 Pathogen[ P03346] interacts with 3 human partners:{Q13886;P25791;P15976}

29114 Pathogen[ Q85601] interacts with 2 human partners:{P15976;P25791}

29115 Pathogen[ P14079] interacts with 2 human partners:{P15976;P25791}

29116 Pathogen[ P03383] interacts with 1 human partners:{P25791}

29117 Pathogen[ P03410] interacts with 2 human partners:{P25791;P15976}

29118 Pathogen[ P14075] interacts with 1 human partners:{P25791}

29119 Pathogen[ POC206] interacts with 2 human partners:{P15976;P25791}

29120 Pathogen[ P03363] interacts with 1 human partners:{P25791}

29121 [Cluster 2648]GO:0030595+P biological\_process [name] leukocyte chemotaxis [def] "The movement of a leukocyte in response to an external stimulus." [GOC

29122 Pathogen[ Q2Q067] interacts with 2 human partners:{Q8IVG9;Q9Y3A5}

29123 Pathogen[ POC214] interacts with 2 human partners:{Q99698;Q9Y3A5}

29124 Pathogen[ P03346] interacts with 3 human partners:{Q99698;Q8IVG9;Q9Y3A5}

29125 Pathogen[ Q85601] interacts with 2 human partners:{Q9Y3A5;Q99698}

29126 Pathogen[ P14079] interacts with 3 human partners:{Q8IVG9;Q9Y3A5;Q99698}

29127 Pathogen[ P03383] interacts with 2 human partners:{Q9Y3A5;Q8IVG9}

29128 Pathogen[ P03410] interacts with 3 human partners:{Q8IVG9;Q99698;Q9Y3A5}

29129 Pathogen[ P14075] interacts with 2 human partners:{Q8IVG9;Q9Y3A5}

29130 Pathogen[ POC206] interacts with 3 human partners:{Q99698;Q8IVG9;Q9Y3A5}

29131 Pathogen[ P03363] interacts with 3 human partners:{Q9Y3A5;Q99698;Q8IVG9}

29132 [Cluster 2649]GO:0000733+P biological\_process [name] DNA strand renaturation [def] "The identification and annealing of complementary base pairs in single-strand DNA." [GOC

29133 Pathogen[ Q2Q067] interacts with 1 human partners:{P28370}

29134 Pathogen[ POC214] interacts with 2 human partners:{Q92698;P28370}

29135 Pathogen[ P03346] interacts with 3 human partners:{P46063;Q92698;P28370}

29136 Pathogen[ Q85601] interacts with 2 human partners:{Q92698;P28370}

29137 Pathogen[ P14079] interacts with 2 human partners:{P28370;Q92698}

29138 Pathogen[ P03383] interacts with 1 human partners:{P28370}

29139 Pathogen[ P03410] interacts with 2 human partners:{Q92698;P28370}

29140 Pathogen[ P14075] interacts with 1 human partners:{P28370}

29141 Pathogen[ POC206] interacts with 2 human partners:{P28370;Q92698}

29142 Pathogen[ P03363] interacts with 3 human partners:{P46063;P28370;Q92698}

29143 [Cluster 2650]GO:0007576+P biological\_process [name] nucleolar fragmentation [def] "The cell aging process that results in the nucleolus breaking down into fragments." [GOC

29144 Pathogen[ Q2Q067] interacts with 1 human partners:{O60765}

29145 Pathogen[ POC214] interacts with 1 human partners:{O60765}

29146 Pathogen[ P03346] interacts with 1 human partners:{O60765}

29147 Pathogen[ Q85601] interacts with 1 human partners:{060765}

29148 Pathogen[ P14079] interacts with 1 human partners:{060765}

29149 Pathogen[ P03383] interacts with 1 human partners:{060765}

29150 Pathogen[ P03410] interacts with 1 human partners:{060765}

29151 Pathogen[ P14075] interacts with 1 human partners:{060765}

29152 Pathogen[ P0C206] interacts with 1 human partners:{060765}

29153 Pathogen[ P03363] interacts with 1 human partners:{060765}

29154 [Cluster 2651]GO:0045725+P biological\_process [name] positive regulation of glycogen biosynthetic process [def] "Any process that activates or increases the frequency, rate or extent of the chemical reactions and pathways resulting in the formation of glycogen." [GOC

29155 Pathogen[ Q2Q067] interacts with 2 human partners:{P31749;Q9BX66}

29156 Pathogen[ P0C214] interacts with 2 human partners:{Q9BX66;P31749}

29157 Pathogen[ P03346] interacts with 2 human partners:{Q9BX66;P31749}

29158 Pathogen[ Q85601] interacts with 2 human partners:{P31749;Q9BX66}

29159 Pathogen[ P14079] interacts with 3 human partners:{P31751;B7ZBB8;Q9BX66}

29160 Pathogen[ P03383] interacts with 1 human partners:{P31749}

29161 Pathogen[ P03410] interacts with 3 human partners:{B7ZBB8;P31749;Q9BX66}

29162 Pathogen[ P14075] interacts with 1 human partners:{P31749}

29163 Pathogen[ P0C206] interacts with 3 human partners:{P31749;B7ZBB8;Q9BX66}

29164 Pathogen[ P03363] interacts with 3 human partners:{Q9BX66;B7ZBB8;P31749}

29165 [Cluster 2652]GO:0003281+P biological\_process [name] ventricular septum development [def] "The progression of the ventricular septum over time from its formation to the mature structure." [GOC

29166 Pathogen[ Q2Q067] interacts with 2 human partners:{Q86V48;Q9NSC2}

29167 Pathogen[ P0C214] interacts with 2 human partners:{Q9NSC2;Q86V48}

29168 Pathogen[ P03346] interacts with 6 human partners:{P31271;Q86V48;Q9UJQ4;Q9NSC2;Q99593;P61968}

29169 Pathogen[ Q85601] interacts with 4 human partners:{P61968;Q86V48;P31271;Q9NSC2}

29170 Pathogen[ P14079] interacts with 5 human partners:{P31271;Q9UJQ4;Q8WU20;Q86V48;Q9NSC2}

29171 Pathogen[ P03383] interacts with 2 human partners:{Q9NSC2;Q86V48}

29172 Pathogen[ P03410] interacts with 4 human partners:{Q86V48;Q8WU20;Q9NSC2;Q9UJQ4}

29173 Pathogen[ P14075] interacts with 2 human partners:{Q9NSC2;Q86V48}

29174 Pathogen[ P0C206] interacts with 6 human partners:{Q9UJQ4;Q9NSC2;Q86V48;Q8WU20;P31271;P61968}

29175 Pathogen[ P03363] interacts with 3 human partners:{Q9UJQ4;Q86V48;P31271}

29176 [Cluster 2653]GO:0070306+P biological\_process [name] lens fiber cell differentiation [def] "The process in which a relatively unspecialized cell acquires specialized features of a lens fiber cell, any of the elongated, tightly packed cells that make up the bulk of the mature lens in the camera-type eye. The cytoplasm of a lens fiber cell is devoid of most intracellular organelles including the cell nucleus, and contains primarily crystallins, a group of water-soluble proteins expressed in vary large quantities." [GOC

29177 Pathogen[ Q2Q067] interacts with 5 human partners:{P84022;O75444;Q9UM11;P12757;P07320}

29178 Pathogen[ P0C214] interacts with 5 human partners:{O75444;P12757;P84022;Q9UM11;P07320}

29179 Pathogen[ P03346] interacts with 7 human partners:{O75364;Q9UM11;P12757;Q8NHU6;P07320;O75444;P84022}

29180 Pathogen[ Q85601] interacts with 5 human partners:{P12757;O75444;P84022;Q9UM11;P07320}

29181 Pathogen[ P14079] interacts with 5 human partners:{P07320;Q8NHU6;Q9UM11;O75444;P12757}

29182 Pathogen[ P03383] interacts with 5 human partners:{P84022;Q9UM11;P12757;P07320;O75444}

29183 Pathogen[ P03410] interacts with 6 human partners:{P84022;Q8NHU6;O75444;P07320;Q9UM11;P12757}

29184 Pathogen[ P14075] interacts with 5 human partners:{P07320;Q9UM11;O75444;P12757;P84022}

29185 Pathogen[ P0C206] interacts with 5 human partners:{P84022;O75444;P07320;P12757;Q9UM11}

29186 Pathogen[ P03363] interacts with 6 human partners:{Q8NHU6;P12757;Q9UM11;P07320;O75444;P84022}

29187 [Cluster 2654]GO:0000724+P biological\_process [name] double-strand break repair via homologous recombination [def] "The error-free repair of a double-strand break in DNA in which the broken DNA molecule is repaired using homologous sequences. A strand in the broken DNA searches for a homologous region in an intact chromosome to serve as the template for DNA synthesis. The restoration of two intact DNA molecules results in the exchange, reciprocal or nonreciprocal, of genetic material between the intact DNA molecule and the broken DNA molecule." [GOC

29188 Pathogen[ Q2Q067] interacts with 35 human partners:{P25490;Q9Y2M0;Q6NVH7;Q8IY18;Q12888;Q92889;P27694;P49959;Q99708;Q96B01;P35244;Q96AH0;Q86YC2;Q9BQ15;Q06609;Q68DK2;Q1ZZU3;P60896;O60934;Q9BQ83;P15927;P61088;Q9UBU8;Q96HA7;O43299;P43351;Q86XK3;Q19AV6;Q9ULG1;Q14676;Q9NUS5;Q96MF7;Q6ZQR5;Q8IY92;O60921}

29189 Pathogen[ P0C214] interacts with 33 human partners: {P43351;Q8IY18;Q06609;Q9BQ83;P49959;Q92889;Q99708;Q9NUS5;Q96AH0;Q9ULG1;Q9Y2M0;Q14676;Q6ZRQ5;O60921;O43299;Q92698;Q96MF7;Q9UBU8;P15927;Q6NVH7;P35244;Q96B01;Q86YC2;Q1ZZU3;Q12888;P27694;Q68DK2;Q8IY92;Q86XK3;Q19AV6;Q96HA7;P61088;Q9BQ15}

29190 Pathogen[ P03346] interacts with 38 human partners: {O60921;Q12888;Q96HA7;Q06609;Q96MF7;Q6ZRQ5;P27694;Q86XK3;P35244;Q99708;Q9ULG1;P25490;Q96AH0;Q92698;P61088;Q14676;Q9BQ15;Q9UBU8;P151587;Q96B01;Q9NUS5;Q19AV6;P15927;Q86YC2;P49959;Q68DK2;P43351;O60934;Q92889;Q6NVH7;Q9BQ83;O43299;P60896;Q8IY92;O43543;Q8IY18;Q9Y2M0;Q1ZZU3}

29191 Pathogen[ Q85601] interacts with 36 human partners: {P43351;Q9Y2M0;Q96HA7;Q96AH0;Q8IY18;Q19AV6;Q9NUS5;P35244;Q99708;Q6NVH7;Q1ZZU3;Q9UBU8;P25490;O43299;Q9BQ15;P49959;Q92698;P27694;Q6ZRQ5;Q12888;Q92889;Q8IY92;P15927;Q96B01;O60921;Q86YC2;Q9ULG1;Q68DK2;Q9BQ83;P61088;Q06609;Q86XK3;Q14676;P151587;Q96MF7;O60934}

29192 Pathogen[ P14079] interacts with 36 human partners: {Q9BQ15;Q9ULG1;Q96B01;Q68DK2;Q96MF7;Q9UBU8;O00487;Q92698;P151587;Q86YC2;O60934;Q96AH0;Q6NVH7;Q96HA7;Q99708;Q19AV6;Q92889;Q9Y2M0;Q1ZZU3;O43543;P15927;Q14676;O43299;P27694;Q8IY18;Q9NUS5;Q9BQ83;Q12888;P25490;Q6ZRQ5;P35244;Q06609;O60921;Q86XK3;Q8IY92;P43351}

29193 Pathogen[ P03383] interacts with 29 human partners: {P43351;Q12888;Q06609;Q68DK2;Q6NVH7;Q19AV6;P27694;Q96B01;Q9UBU8;Q9NUS5;Q96MF7;O60921;P61088;Q6ZRQ5;P15927;P35244;Q9Y2M0;O43299;Q8IY92;Q99708;Q86XK3;Q9BQ15;Q86YC2;Q96HA7;Q14676;P60896;Q96AH0;Q1ZZU3;Q9BQ83}

29194 Pathogen[ P03410] interacts with 38 human partners: {P49959;P35244;Q99708;Q9BQ15;Q92698;Q9NUS5;Q1ZZU3;Q19AV6;Q9ULG1;Q9UBU8;O43299;Q92889;Q6NVH7;P61088;P43351;Q9BQ83;P25490;Q96MF7;Q8IY92;P60896;Q96AH0;P151587;O60921;Q12888;Q8IY18;O43543;Q86XK3;P27694;Q14676;P15927;Q9Y2M0;Q96B01;Q68DK2;Q86YC2;Q96HA7;O60934;Q06609;Q6ZRQ5}

29195 Pathogen[ P14075] interacts with 29 human partners: {P43351;Q9BQ83;Q9UBU8;Q86YC2;P61088;Q9BQ15;Q6ZRQ5;P15927;Q9Y2M0;Q68DK2;P35244;Q19AV6;Q96HA7;Q14676;Q96AH0;P27694;P60896;O60921;Q96B01;Q12888;Q6NVH7;Q96MF7;Q1ZZU3;Q99708;Q86XK3;Q8IY92;Q9NUS5;Q06609;O43299}

29196 Pathogen[ P0C206] interacts with 38 human partners: {Q96HA7;Q68DK2;Q19AV6;Q9Y2M0;P49959;Q9UBU8;Q9BQ15;Q99708;Q86YC2;P25490;P151587;O60934;Q86XK3;O43299;P43351;P61088;Q12888;Q9ULG1;Q14676;Q92889;O60921;Q96MF7;Q6ZRQ5;O43543;Q06609;P27694;P15927;Q6NVH7;P35244;Q96B01;Q9BQ83;Q8IY18;Q8IY92;Q1ZZU3;P60896;Q92698;Q96AH0;Q9NUS5}

29197 Pathogen[ P03363] interacts with 34 human partners: {P27694;Q19AV6;Q9ULG1;P60896;Q9Y2M0;Q96AH0;P25490;Q92889;Q1ZZU3;Q9NUS5;P35244;Q68DK2;P15927;P61088;Q9UBU8;Q99708;Q86XK3;Q9BQ15;Q9BQ83;Q8IY92;P43351;O60921;Q06609;Q6NVH7;Q14676;Q8IY18;Q96HA7;Q96MF7;Q6ZRQ5;Q12888;Q92698;Q96B01;Q86YC2;O43299}

29198 [Cluster 2655]GO:2000065+P biological\_process [name] negative regulation of cortisol biosynthetic process [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of cortisol biosynthetic process." [GOC]

29199 Pathogen[ Q2Q067] interacts with 1 human partners: {Q13127}

29200 Pathogen[ P0C214] interacts with 1 human partners: {Q13127}

29201 Pathogen[ P03346] interacts with 1 human partners: {Q13127}

29202 Pathogen[ Q85601] interacts with 1 human partners: {Q13127}

29203 Pathogen[ P14079] interacts with 1 human partners: {Q13127}

29204 Pathogen[ P03383] interacts with 1 human partners: {Q13127}

29205 Pathogen[ P03410] interacts with 1 human partners: {Q13127}

29206 Pathogen[ P14075] interacts with 1 human partners: {Q13127}

29207 Pathogen[ P0C206] interacts with 1 human partners: {Q13127}

29208 Pathogen[ P03363] interacts with 1 human partners: {Q13127}

29209 [Cluster 2656]GO:0042921+P biological\_process [name] glucocorticoid receptor signaling pathway [def] "Any series of molecular signals generated as a consequence of a glucocorticoid binding to its receptor." [GOC]

29210 Pathogen[ Q2Q067] interacts with 5 human partners: {P27797;O14497;Q14686;Q04917;Q96PK6}

29211 Pathogen[ P0C214] interacts with 5 human partners: {O14497;Q04917;Q14686;Q96PK6;P27797}

29212 Pathogen[ P03346] interacts with 5 human partners: {Q04917;O14497;P27797;Q96PK6;Q14686}

29213 Pathogen[ Q85601] interacts with 5 human partners: {Q96PK6;O14497;P27797;Q04917;Q14686}

29214 Pathogen[ P14079] interacts with 4 human partners: {O14497;Q04917;Q14686;Q96PK6}

29215 Pathogen[ P03383] interacts with 4 human partners: {O14497;Q14686;Q96PK6;P27797}

29216 Pathogen[ P03410] interacts with 5 human partners: {Q96PK6;O14497;Q04917;Q14686;P27797}

29217 Pathogen[ P14075] interacts with 4 human partners: {Q14686;O14497;Q96PK6;P27797}

29218 Pathogen[ P0C206] interacts with 5 human partners: {P27797;Q04917;O14497;Q96PK6;Q14686}

29219 Pathogen[ P03363] interacts with 5 human partners: {O14497;Q14686;Q96PK6;P27797;Q04917}

29220 [Cluster 2657]GO:0016445+P biological\_process [name] somatic diversification of immunoglobulins [def] "The somatic process that results in the generation of sequence

diversity of immunoglobulins." [GOC

29221 Pathogen[ Q2Q067] interacts with 3 human partners:{P55895;Q9GZX7;Q8WYA6}

29222 Pathogen[ P0C214] interacts with 3 human partners:{P55895;Q9GZX7;Q8WYA6}

29223 Pathogen[ P03346] interacts with 2 human partners:{P55895;Q8WYA6}

29224 Pathogen[ Q85601] interacts with 3 human partners:{Q9GZX7;Q8WYA6;P55895}

29225 Pathogen[ P14079] interacts with 2 human partners:{Q9GZX7;Q8WYA6}

29226 Pathogen[ P03383] interacts with 2 human partners:{P55895;Q8WYA6}

29227 Pathogen[ P03410] interacts with 3 human partners:{P55895;Q8WYA6;Q9GZX7}

29228 Pathogen[ P14075] interacts with 2 human partners:{Q8WYA6;P55895}

29229 Pathogen[ P0C206] interacts with 3 human partners:{Q8WYA6;Q9GZX7;P55895}

29230 Pathogen[ P03363] interacts with 2 human partners:{Q8WYA6;P55895}

29231 [Cluster 2658]GO:0002296+P biological\_process [name] T-helper 1 cell lineage commitment [def] "The process in which a CD4-positive, alpha-beta T cell becomes committed to becoming a T-helper 1 cell, a CD4-positive, alpha-beta T cell specialized to promote immunological processes often associated with resistance to intracellular bacteria, fungi, and protozoa, and pathological conditions such as arthritis." [GOC

29232 Pathogen[ Q2Q067] interacts with 1 human partners:{P42226}

29233 Pathogen[ P0C214] interacts with 1 human partners:{P42226}

29234 Pathogen[ P03346] interacts with 1 human partners:{P42226}

29235 Pathogen[ Q85601] interacts with 1 human partners:{P42226}

29236 Pathogen[ P14079] interacts with 1 human partners:{P42226}

29237 Pathogen[ P03383] interacts with 1 human partners:{P42226}

29238 Pathogen[ P03410] interacts with 1 human partners:{P42226}

29239 Pathogen[ P14075] interacts with 1 human partners:{P42226}

29240 Pathogen[ P0C206] interacts with 1 human partners:{P42226}

29241 Pathogen[ P03363] interacts with 1 human partners:{P42226}

29242 [Cluster 2659]GO:0007021+P biological\_process [name] tubulin complex assembly [def] "The aggregation and bonding together of alpha- and beta-tubulin to form a tubulin heterodimer." [GOC

29243 Pathogen[ Q2Q067] interacts with 4 human partners:{O75347;P02511;P17987;P02489}

29244 Pathogen[ P0C214] interacts with 5 human partners:{O75347;P02489;P02511;P17987;P36404}

29245 Pathogen[ P03346] interacts with 5 human partners:{P02489;O75347;P02511;P36404;P17987}

29246 Pathogen[ Q85601] interacts with 4 human partners:{P02489;P17987;P02511;O75347}

29247 Pathogen[ P14079] interacts with 4 human partners:{P02511;P02489;P17987;O75347}

29248 Pathogen[ P03383] interacts with 2 human partners:{P02511;O75347}

29249 Pathogen[ P03410] interacts with 4 human partners:{P17987;P02489;P02511;O75347}

29250 Pathogen[ P14075] interacts with 2 human partners:{O75347;P02511}

29251 Pathogen[ P0C206] interacts with 4 human partners:{P17987;O75347;P02511;P02489}

29252 Pathogen[ P03363] interacts with 3 human partners:{O75347;P17987;P02489}

29253 [Cluster 2660]GO:0045948+P biological\_process [name] positive regulation of translational initiation [def] "Any process that activates or increases the frequency, rate or extent of translational initiation." [GOC

29254 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13144}

29255 Pathogen[ P0C214] interacts with 1 human partners:{Q13144}

29256 Pathogen[ P03346] interacts with 2 human partners:{Q13144;Q9NQZ3}

29257 Pathogen[ Q85601] interacts with 1 human partners:{Q13144}

29258 Pathogen[ P14079] interacts with 1 human partners:{Q13144}

29259 Pathogen[ P03383] interacts with 1 human partners:{Q13144}

29260 Pathogen[ P03410] interacts with 1 human partners:{Q13144}

29261 Pathogen[ P14075] interacts with 1 human partners:{Q13144}

29262 Pathogen[ P0C206] interacts with 1 human partners:{Q13144}

29263 Pathogen[ P03363] interacts with 4 human partners:{Q8N9W6;Q92904;Q13144;Q9NQZ3}

29264 [Cluster 2661]GO:0006226+P biological\_process [name] dUMP biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of dUMP, deoxyuridine monophosphate (2'-deoxyuridine 5'-phosphate)." [ISBN

29265 Pathogen[ Q2Q067] interacts with 1 human partners:{P33316}

29266 Pathogen[ P0C214] interacts with 1 human partners:{P33316}

29267 Pathogen[ P03346] interacts with 1 human partners:{P33316}

29268 Pathogen[ Q85601] interacts with 1 human partners:{P33316}

29269 Pathogen[ P14079] interacts with 1 human partners:{P33316}

29270 Pathogen[ P03383] interacts with 1 human partners:{P33316}

29271 Pathogen[ P03410] interacts with 1 human partners:{P33316}

29272 Pathogen[ P14075] interacts with 1 human partners:{P33316}

29273 Pathogen[ P0C206] interacts with 1 human partners:{P33316}

29274 Pathogen[ P03363] interacts with 1 human partners:{P33316}

29275 [Cluster 2662]GO:0030262+P biological\_process [name] apoptotic nuclear change [def] "A process that is carried out at the cellular level which results in the disassembly of the nucleus and contributes to apoptosis." [GOC

29276 Pathogen[ Q2Q067] interacts with 4 human partners:{Q8WXF8;Q9H0F6;Q9P0J0;Q96BY2}

29277 Pathogen[ P0C214] interacts with 4 human partners:{Q8WXF8;Q96BY2;Q9H0F6;Q9P0J0}

29278 Pathogen[ P03346] interacts with 4 human partners:{Q8WXF8;Q9H0F6;Q96BY2;Q9P0J0}

29279 Pathogen[ Q85601] interacts with 4 human partners:{Q9P0J0;Q96BY2;Q9H0F6;Q8WXF8}

29280 Pathogen[ P14079] interacts with 5 human partners:{Q96BY2;Q9P0J0;Q9H0F6;Q8WXF8;P28360}

29281 Pathogen[ P03383] interacts with 4 human partners:{Q9H0F6;Q8WXF8;Q9P0J0;Q96BY2}  
29282 Pathogen[ P03410] interacts with 4 human partners:{Q8WXF8;Q96BY2;Q9P0J0;Q9H0F6}  
29283 Pathogen[ P14075] interacts with 4 human partners:{Q96BY2;Q8WXF8;Q9P0J0;Q9H0F6}  
29284 Pathogen[ P0C206] interacts with 4 human partners:{Q8WXF8;Q96BY2;Q9P0J0;Q9H0F6}  
29285 Pathogen[ P03363] interacts with 4 human partners:{Q9P0J0;Q96BY2;Q9H0F6;Q8WXF8}  
29286 [Cluster 2663]GO:0071034+P biological\_process [name] CUT catabolic process [def]  
"The chemical reactions and pathways resulting in the breakdown of cryptic unstable  
transcripts (CUTs)." [GOC  
29287 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9Y2L1}  
29288 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y2L1}  
29289 Pathogen[ P03346] interacts with 2 human partners:{Q9Y2L1;Q9NQT5}  
29290 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y2L1}  
29291 Pathogen[ P14079] interacts with 1 human partners:{Q9Y2L1}  
29292 Pathogen[ P03383] interacts with 1 human partners:{Q9Y2L1}  
29293 Pathogen[ P03410] interacts with 1 human partners:{Q9Y2L1}  
29294 Pathogen[ P14075] interacts with 1 human partners:{Q9Y2L1}  
29295 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y2L1}  
29296 Pathogen[ P03363] interacts with 2 human partners:{Q9Y2L1;Q9NQT5}  
29297 [Cluster 2664]GO:0045824+P biological\_process [name] negative regulation of innate  
immune response [def] "Any process that stops, prevents, or reduces the frequency, rate  
or extent of the innate immune response." [GOC  
29298 Pathogen[ Q2Q067] interacts with 1 human partners:{Q16666}  
29299 Pathogen[ P0C214] interacts with 1 human partners:{Q16666}  
29300 Pathogen[ P03346] interacts with 1 human partners:{Q16666}  
29301 Pathogen[ Q85601] interacts with 1 human partners:{Q16666}  
29302 Pathogen[ P14079] interacts with 2 human partners:{Q96C10;Q16666}  
29303 Pathogen[ P03383] interacts with 1 human partners:{Q16666}  
29304 Pathogen[ P03410] interacts with 2 human partners:{Q16666;Q96C10}  
29305 Pathogen[ P14075] interacts with 1 human partners:{Q16666}  
29306 Pathogen[ P0C206] interacts with 2 human partners:{Q16666;Q96C10}  
29307 Pathogen[ P03363] interacts with 1 human partners:{Q16666}  
29308 [Cluster 2665]GO:0032205+P biological\_process [name] negative regulation of telomere  
maintenance [def] "Any process that stops, prevents, or reduces the frequency, rate or  
extent of a process that affects and monitors the activity of telomeric proteins and the  
length of telomeric DNA." [GOC  
29309 Pathogen[ Q2Q067] interacts with 4 human partners:{Q92889;Q9NYB0;Q15554;Q9BSI4}  
29310 Pathogen[ P0C214] interacts with 4 human partners:{Q92889;Q9BSI4;Q15554;Q9NYB0}  
29311 Pathogen[ P03346] interacts with 5 human  
partners:{Q9BSI4;Q15554;P07992;Q9NYB0;Q92889}  
29312 Pathogen[ Q85601] interacts with 3 human partners:{Q15554;Q92889;Q9NYB0}  
29313 Pathogen[ P14079] interacts with 5 human  
partners:{Q9BSI4;Q9NYB0;Q92889;Q15554;P07992}  
29314 Pathogen[ P03383] interacts with 3 human partners:{Q9NYB0;Q15554;Q9BSI4}  
29315 Pathogen[ P03410] interacts with 5 human  
partners:{Q15554;P07992;Q92889;Q9BSI4;Q9NYB0}  
29316 Pathogen[ P14075] interacts with 3 human partners:{Q15554;Q9BSI4;Q9NYB0}  
29317 Pathogen[ P0C206] interacts with 5 human  
partners:{Q15554;Q9BSI4;P07992;Q92889;Q9NYB0}  
29318 Pathogen[ P03363] interacts with 4 human partners:{Q15554;Q9NYB0;Q92889;Q9BSI4}  
29319 [Cluster 2666]GO:0006241+P biological\_process [name] CTP biosynthetic process [def]  
"The chemical reactions and pathways resulting in the formation of CTP, cytidine  
5'-triphosphate." [ISBN  
29320 Pathogen[ Q2Q067] interacts with 1 human partners:{P22392}  
29321 Pathogen[ P0C214] interacts with 2 human partners:{P22392;P17812}  
29322 Pathogen[ P03346] interacts with 1 human partners:{P22392}  
29323 Pathogen[ Q85601] interacts with 1 human partners:{P22392}  
29324 Pathogen[ P14079] interacts with 3 human partners:{P17812;P22392;Q86XW9}  
29325 Pathogen[ P03383] interacts with 1 human partners:{P22392}  
29326 Pathogen[ P03410] interacts with 2 human partners:{P17812;Q86XW9}  
29327 Pathogen[ P14075] interacts with 1 human partners:{P22392}  
29328 Pathogen[ P0C206] interacts with 2 human partners:{P22392;Q86XW9}  
29329 Pathogen[ P03363] interacts with 1 human partners:{Q86XW9}  
29330 [Cluster 2667]GO:0042481+P biological\_process [name] regulation of odontogenesis  
[def] "Any process that modulates the frequency, rate or extent of the formation and  
development of a tooth or teeth." [GOC  
29331 Pathogen[ Q2Q067] interacts with 1 human partners:{P55771}  
29332 Pathogen[ P0C214] interacts with 1 human partners:{P55771}  
29333 Pathogen[ P03346] interacts with 2 human partners:{Q3SY56;P55771}  
29334 Pathogen[ Q85601] interacts with 1 human partners:{P55771}  
29335 Pathogen[ P14079] interacts with 3 human partners:{P55771;P28360;Q3SY56}  
29336 Pathogen[ P03383] interacts with 1 human partners:{P55771}  
29337 Pathogen[ P03410] interacts with 1 human partners:{P55771}  
29338 Pathogen[ P14075] interacts with 1 human partners:{P55771}  
29339 Pathogen[ P0C206] interacts with 2 human partners:{Q3SY56;P55771}  
29340 Pathogen[ P03363] interacts with 1 human partners:{P55771}  
29341 [Cluster 2668]GO:0001954+P biological\_process [name] positive regulation of

cell-matrix adhesion [def] "Any process that activates or increases the rate or extent of cell adhesion to an extracellular matrix." [GOC

29342 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9HB19;P46939;Q00534}

29343 Pathogen[ P0C214] interacts with 3 human partners:{Q9HB19;Q00534;P46939}

29344 Pathogen[ P03346] interacts with 3 human partners:{Q9HB19;P46939;Q00534}

29345 Pathogen[ Q85601] interacts with 3 human partners:{P46939;Q9HB19;Q00534}

29346 Pathogen[ P14079] interacts with 2 human partners:{P46939;Q9HB19}

29347 Pathogen[ P03383] interacts with 3 human partners:{Q00534;P46939;Q9HB19}

29348 Pathogen[ P03410] interacts with 3 human partners:{Q00534;P46939;Q9HB19}

29349 Pathogen[ P14075] interacts with 3 human partners:{Q00534;P46939;Q9HB19}

29350 Pathogen[ P0C206] interacts with 3 human partners:{P46939;Q9HB19;Q00534}

29351 Pathogen[ P03363] interacts with 3 human partners:{P46939;Q00534;Q9HB19}

29352 [Cluster 2669]GO:0048733+P biological\_process [name] sebaceous gland development [def] "The process whose specific outcome is the progression of the sebaceous gland over time, from its formation to the mature structure." [GOC

29353 Pathogen[ Q2Q067] interacts with 2 human partners:{Q13485;Q92754}

29354 Pathogen[ P0C214] interacts with 2 human partners:{Q92754;Q13485}

29355 Pathogen[ P03346] interacts with 2 human partners:{Q92754;Q13485}

29356 Pathogen[ Q85601] interacts with 2 human partners:{Q92754;Q13485}

29357 Pathogen[ P14079] interacts with 1 human partners:{Q92754}

29358 Pathogen[ P03383] interacts with 2 human partners:{Q13485;Q92754}

29359 Pathogen[ P03410] interacts with 2 human partners:{Q13485;Q92754}

29360 Pathogen[ P14075] interacts with 2 human partners:{Q92754;Q13485}

29361 Pathogen[ P0C206] interacts with 2 human partners:{Q92754;Q13485}

29362 Pathogen[ P03363] interacts with 2 human partners:{Q13485;Q92754}

29363 [Cluster 2670]GO:0048627+P biological\_process [name] myoblast development [def] "The process whose specific outcome is the progression of the myoblast over time, from its formation to the mature structure. A myoblast is a mononucleate cell type that, by fusion with other myoblasts, gives rise to the myotubes that eventually develop into skeletal muscle fibers." [CL

29364 Pathogen[ Q2Q067] interacts with 1 human partners:{060248}

29365 Pathogen[ P0C214] interacts with 1 human partners:{060248}

29366 Pathogen[ P03346] interacts with 1 human partners:{060248}

29367 Pathogen[ Q85601] interacts with 1 human partners:{060248}

29368 Pathogen[ P14079] interacts with 1 human partners:{060248}

29369 Pathogen[ P03383] interacts with 1 human partners:{060248}

29370 Pathogen[ P03410] interacts with 1 human partners:{060248}

29371 Pathogen[ P14075] interacts with 1 human partners:{060248}

29372 Pathogen[ P0C206] interacts with 1 human partners:{060248}

29373 Pathogen[ P03363] interacts with 1 human partners:{060248}

29374 [Cluster 2671]GO:0060536+P biological\_process [name] cartilage morphogenesis [def] "The process in which the anatomical structures of cartilage are generated and organized." [GOC

29375 Pathogen[ Q2Q067] interacts with 2 human partners:{096004;P20719}

29376 Pathogen[ P0C214] interacts with 1 human partners:{096004}

29377 Pathogen[ P03346] interacts with 3 human partners:{P20719;096004;095863}

29378 Pathogen[ Q85601] interacts with 1 human partners:{096004}

29379 Pathogen[ P14079] interacts with 2 human partners:{096004;P28360}

29380 Pathogen[ P03383] interacts with 1 human partners:{096004}

29381 Pathogen[ P03410] interacts with 1 human partners:{096004}

29382 Pathogen[ P14075] interacts with 1 human partners:{096004}

29383 Pathogen[ P0C206] interacts with 2 human partners:{096004;P20719}

29384 Pathogen[ P03363] interacts with 2 human partners:{P20719;096004}

29385 [Cluster 2672]GO:0042733+P biological\_process [name] embryonic digit morphogenesis [def] "The process, occurring in the embryo, by which the anatomical structures of the digit are generated and organized. A digit is one of the terminal divisions of an appendage, such as a finger or toe." [GOC

29386 Pathogen[ Q2Q067] interacts with 7 human partners:{P04198;Q13547;O43248;P35548;Q92769;Q92793;Q9NSC2}

29387 Pathogen[ P0C214] interacts with 7 human partners:{Q13547;Q92793;O43248;Q92769;Q9NSC2;P35548;P04198}

29388 Pathogen[ P03346] interacts with 10 human partners:{P35453;P35548;P31270;Q9NSC2;Q92769;Q13547;P04198;Q92793;O43248;P35452}

29389 Pathogen[ Q85601] interacts with 7 human partners:{O43248;Q92769;P35548;Q13547;Q9NSC2;P04198;Q92793}

29390 Pathogen[ P14079] interacts with 8 human partners:{Q92793;P54826;Q92769;Q4AC94;P04198;Q9Y366;P28360;Q9NSC2}

29391 Pathogen[ P03383] interacts with 6 human partners:{P35548;Q92769;Q9NSC2;Q13547;P04198;Q92793}

29392 Pathogen[ P03410] interacts with 9 human partners:{Q4AC94;Q9Y366;P35548;Q92793;Q92769;P54826;Q13547;Q9NSC2;P04198}

29393 Pathogen[ P14075] interacts with 7 human partners:{Q9NSC2;P35548;P04198;Q13547;Q92769;Q92793;P54826}

29394 Pathogen[ P0C206] interacts with 8 human partners:{Q92769;Q9NSC2;Q13547;Q92793;O43248;P35548;P04198;P54826}

29395 Pathogen[ P03363] interacts with 7 human

partners:{P35453;P04198;P35548;O43248;Q13547;Q92793;P35452}

29396 [Cluster 2673]GO:0072520+P biological\_process [name] seminiferous tubule development [def] "The reproductive developmental process whose specific outcome is the progression of the seminiferous tubule over time, from its formation to the mature structure. Seminiferous tubules are ducts located in the testicles, and are the specific location of meiosis, and the subsequent creation of gametes, namely spermatozoa." [GOC

29397 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9H160}

29398 Pathogen[ P0C214] interacts with 1 human partners:{Q9H160}

29399 Pathogen[ P03346] interacts with 1 human partners:{Q9H160}

29400 Pathogen[ Q85601] interacts with 1 human partners:{Q9H160}

29401 Pathogen[ P14079] interacts with 1 human partners:{Q9H160}

29402 Pathogen[ P03383] interacts with 1 human partners:{Q9H160}

29403 Pathogen[ P03410] interacts with 1 human partners:{Q9H160}

29404 Pathogen[ P14075] interacts with 1 human partners:{Q9H160}

29405 Pathogen[ P0C206] interacts with 1 human partners:{Q9H160}

29406 Pathogen[ P03363] interacts with 1 human partners:{Q9H160}

29407 [Cluster 2674]GO:0006509+P biological\_process [name] membrane protein ectodomain proteolysis [def] "The proteolytic cleavage of transmembrane proteins and release of their ectodomain (extracellular domain)." [GOC

29408 Pathogen[ Q2Q067] interacts with 2 human partners:{P38159;P35579}

29409 Pathogen[ P0C214] interacts with 1 human partners:{P38159}

29410 Pathogen[ P03346] interacts with 2 human partners:{P35579;P38159}

29411 Pathogen[ Q85601] interacts with 2 human partners:{P35579;P38159}

29412 Pathogen[ P14079] interacts with 5 human partners:{P35579;Q92542;Q9NZ42;Q14118;P38159}

29413 Pathogen[ P03383] interacts with 2 human partners:{P38159;P35579}

29414 Pathogen[ P03410] interacts with 5 human partners:{P35579;Q9NZ42;Q14118;Q92542;P38159}

29415 Pathogen[ P14075] interacts with 2 human partners:{P38159;P35579}

29416 Pathogen[ P0C206] interacts with 4 human partners:{Q9NZ42;Q92542;P38159;P35579}

29417 Pathogen[ P03363] interacts with 2 human partners:{P35579;P38159}

29418 [Cluster 2675]GO:0021575+P biological\_process [name] hindbrain morphogenesis [def] "The process in which the anatomical structure of the hindbrain is generated and organized. The hindbrain is the region consisting of the medulla, pons and cerebellum. Areas of the hindbrain control motor and autonomic functions." [GO\_REF

29419 Pathogen[ Q2Q067] interacts with 1 human partners:{Q5TGS1}

29420 Pathogen[ P0C214] interacts with 1 human partners:{Q5TGS1}

29421 Pathogen[ P03346] interacts with 1 human partners:{Q5TGS1}

29422 Pathogen[ Q85601] interacts with 1 human partners:{Q5TGS1}

29423 Pathogen[ P14079] interacts with 1 human partners:{Q5TGS1}

29424 Pathogen[ P03383] interacts with 1 human partners:{Q5TGS1}

29425 Pathogen[ P03410] interacts with 1 human partners:{Q5TGS1}

29426 Pathogen[ P14075] interacts with 1 human partners:{Q5TGS1}

29427 Pathogen[ P0C206] interacts with 1 human partners:{Q5TGS1}

29428 Pathogen[ P03363] interacts with 1 human partners:{Q5TGS1}

29429 [Cluster 2676]GO:0007126+P biological\_process [name] meiosis [def] "A cell cycle process comprising the steps by which a cell progresses through the nuclear division phase of a meiotic cell cycle. A meiotic cell cycle is the specialized nuclear and cell division in which a single diploid cell undergoes two nuclear divisions following a single round of DNA replication in order to produce four daughter cells that contain half the number of chromosomes as the diploid cell. Meiotic division occurs during the formation of gametes from diploid organisms and at the beginning of haplophase in those organisms that alternate between diploid and haploid generations." [GOC

29430 Pathogen[ Q2Q067] interacts with 25 human partners:{Q5TAP6;P27694;P49959;Q8WWL7;Q99708;Q8WYR4;P67775;O43684;Q06609;O43264;O60934;Q8NEH6;Q9BQ90;Q9UQ84;Q5VUA4;A1L190;Q9UJ98;Q6PIF2;Q6ICG8;P46013;Q14683;P24941;Q562F6;Q8N3U4;Q9BX26}

29431 Pathogen[ P0C214] interacts with 26 human partners:{O43684;Q06609;P49959;O43264;A1L190;Q8NEH6;Q8WYR4;Q9UJ98;Q99708;Q6ICG8;Q562F6;Q92698;Q5VUA4;P24941;P67775;Q5TAP6;Q9BX26;Q14683;Q8N3U4;Q8N7B1;P46013;Q9UQ84;P27694;Q8WWL7;Q9NQV7;Q9BQ90}

29432 Pathogen[ P03346] interacts with 36 human partners:{Q9NQV7;Q06609;Q9BWT6;O43684;Q5TAP6;Q8N3U4;P27694;Q9BX26;Q9P2W1;Q99708;P24941;O43264;Q6ICG8;Q96J94;P67775;Q92698;Q9BQ90;Q8IZU3;Q9UJ98;Q14683;Q8WWL7;Q562F6;Q6PIF2;P49959;O60934;Q9UQ84;Q8WYR4;Q96MM3;A1L190;Q8N635;Q8N0S2;P46013;O43543;Q8N7B1;Q8NEH6;Q5VUA4}

29433 Pathogen[ Q85601] interacts with 29 human partners:{Q9NQV7;Q8N7B1;Q9UQ84;Q99708;O43264;Q6ICG8;P49959;Q92698;Q9BX26;Q8WYR4;P27694;Q562F6;Q9UJ98;Q9BQ90;Q14683;Q6PIF2;P67775;Q8N3U4;Q4G163;P46013;Q8NEH6;Q5VUA4;Q06609;P24941;O43684;P51955;A1L190;Q8WWL7;O60934}

29434 Pathogen[ P14079] interacts with 41 human partners:{O43196;Q5TIA1;Q9BQ90;Q8NEH6;Q8IZA3;Q9BWT6;Q92698;Q13472;Q7Z7C7;O60934;Q5TAP6;Q6PIF2;Q8N3U4;Q7Z4M0;P51955;Q9UJ98;Q8IZU3;Q4G163;Q99708;Q86X24;Q562F6;Q8WWL7;O43264;Q8N635;Q5VUA4;O43543;Q9BX26;Q6ICG8;P27694;Q9UQE7;Q9NQV7;Q8N7B1;Q96JY0;Q8WYR4;Q06609;Q14683;Q9Y236;Q9UQ84;O43684;A1L190;P46013}

29435 Pathogen[ P03383] interacts with 20 human

29436 partners: {Q14683;Q06609;Q8N3U4;Q5TAP6;O43264;P27694;Q9UJ98;Q8WWL7;P46013;P67775;Q5VUA4;O43684;P24941;Q562F6;Q99708;A1L190;Q9BQ90;Q6ICG8;Q8NEH6;Q9BX26}  
Pathogen[ P03410] interacts with 40 human

29437 partners: {Q4G163;P49959;Q99708;Q5VUA4;O43684;Q92698;P46013;Q9UQE7;Q8WWL7;Q6ICG8;Q562F6;Q7Z4M0;Q5TAP6;O43264;Q8NEH6;Q8WYR4;Q9BWT6;Q13472;Q9NQV7;Q9BX26;P24941;Q8IZU3;Q7Z7C7;Q14683;Q9UJ98;Q8N3U4;O43196;O43543;Q6PIF2;P27694;Q9UQ84;A1L190;P67775;Q8N635;Q9BQ90;O60934;Q5TIA1;Q8N7B1;Q06609;Q8N0S2}  
Pathogen[ P14075] interacts with 22 human

29438 partners: {P24941;Q14683;Q562F6;Q9BX26;Q6ICG8;A1L190;O43684;Q9UJ98;Q5VUA4;Q8N7B1;Q8WWL7;P27694;P67775;O43264;Q99708;P46013;Q8NEH6;Q06609;Q7Z7C7;Q8N3U4;Q9BQ90;Q5TAP6}  
Pathogen[ P0C206] interacts with 38 human

29439 partners: {Q5VUA4;Q8WWL7;Q96MM3;P49959;Q9UQ84;Q99708;Q8NEH6;Q8N635;A1L190;P51955;O60934;P46013;Q6ICG8;Q9UJ98;P67775;Q9BX26;Q8IZU3;Q9NQV7;Q7Z7C7;Q8WYR4;Q9UQE7;Q14683;Q8N0S2;Q562F6;Q9BQ90;Q8N3U4;O43543;Q06609;P27694;O43684;Q4G163;O43264;P24941;Q8N7B1;Q13472;Q5TAP6;Q92698;Q6PIF2}  
Pathogen[ P03363] interacts with 34 human

29440 partners: {Q8IZA3;Q9UJ98;Q5VUA4;Q8WWL7;P27694;Q7Z3Z4;O43264;Q8NEH6;P24941;Q96MM3;Q8N9W6;Q9BQ90;Q99708;Q8N7B1;O43684;Q6PIF2;Q96JY0;Q13472;Q5TAP6;Q6ICG8;Q8WYR4;Q8N635;Q96J94;Q06609;Q8N3U4;P46013;Q562F6;P67775;Q9BWT6;Q8IZU3;Q14683;Q9BX26;Q92698;A1L190}  
[Cluster 2677]GO:0003139+P biological\_process [name] secondary heart field specification [def] "The process that results in the delineation of a specific region of the lateral mesoderm into the area which will form the majority of the mesodermal component of the right ventricle, arterial and venous poles." [GOC

29441 Pathogen[ Q2Q067] interacts with 1 human partners: {Q6STE5}

29442 Pathogen[ P0C214] interacts with 1 human partners: {Q6STE5}

29443 Pathogen[ P03346] interacts with 2 human partners: {Q6STE5;O75593}

29444 Pathogen[ Q85601] interacts with 1 human partners: {Q6STE5}

29445 Pathogen[ P14079] interacts with 2 human partners: {Q06413;Q6STE5}

29446 Pathogen[ P03383] interacts with 1 human partners: {Q6STE5}

29447 Pathogen[ P03410] interacts with 1 human partners: {Q6STE5}

29448 Pathogen[ P14075] interacts with 1 human partners: {Q6STE5}

29449 Pathogen[ P0C206] interacts with 1 human partners: {Q6STE5}

29450 Pathogen[ P03363] interacts with 1 human partners: {Q6STE5}

29451 [Cluster 2678]GO:0006285+P biological\_process [name] base-excision repair, AP site formation [def] "The formation of an AP site, a deoxyribose sugar with a missing base, by DNA glycosylase which recognizes an altered base in DNA and catalyzes its hydrolytic removal. This sugar phosphate is the substrate recognized by the AP endonuclease, which cuts the DNA phosphodiester backbone at the 5' side of the altered site to leave a gap which is subsequently repaired." [ISBN

29452 Pathogen[ Q2Q067] interacts with 8 human partners: {O95243;Q9UIF7;P22674;P29372;O15527;P78549;Q13569;Q53HV7}

29453 Pathogen[ P0C214] interacts with 8 human partners: {O95243;Q53HV7;Q9UIF7;P22674;P78549;P29372;O15527;Q13569}

29454 Pathogen[ P03346] interacts with 8 human partners: {Q9UIF7;Q53HV7;P29372;P78549;Q13569;O95243;O15527;P22674}

29455 Pathogen[ Q85601] interacts with 8 human partners: {P22674;O15527;O95243;Q53HV7;Q13569;Q9UIF7;P78549;P29372}

29456 Pathogen[ P14079] interacts with 8 human partners: {Q9UIF7;P29372;O15527;P78549;O95243;Q53HV7;Q13569;P22674}

29457 Pathogen[ P03383] interacts with 6 human partners: {O15527;Q53HV7;P22674;P29372;O95243;Q13569}

29458 Pathogen[ P03410] interacts with 8 human partners: {P22674;P78549;Q53HV7;O95243;O15527;Q13569;P29372;Q9UIF7}

29459 Pathogen[ P14075] interacts with 7 human partners: {O15527;Q53HV7;Q9UIF7;P22674;O95243;Q13569;P29372}

29460 Pathogen[ P0C206] interacts with 8 human partners: {O15527;Q53HV7;Q13569;P29372;O95243;P22674;Q9UIF7;P78549}

29461 Pathogen[ P03363] interacts with 7 human partners: {O15527;P29372;Q9UIF7;O95243;Q13569;P22674;Q53HV7}

29462 [Cluster 2679]GO:0006970+P biological\_process [name] response to osmotic stress [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a stimulus indicating an increase or decrease in the concentration of solutes outside the organism or cell." [GOC

29463 Pathogen[ Q2Q067] interacts with 9 human partners: {Q93034;Q9Y3Q8;P11166;Q99576;Q14978;Q13233;P15336;Q14244;O75157}

29464 Pathogen[ P0C214] interacts with 9 human partners: {Q9Y3Q8;P15336;O75157;Q99576;Q93034;P11166;Q13233;Q14978;Q14244}

29465 Pathogen[ P03346] interacts with 9 human partners: {P15336;Q9Y3Q8;Q93034;Q14978;O75157;Q99576;Q13233;P11166;Q14244}

29466 Pathogen[ Q85601] interacts with 9 human partners: {Q14978;Q14244;Q9Y3Q8;P11166;Q99576;O75157;Q13233;P15336;Q93034}

29467 Pathogen[ P14079] interacts with 10 human partners: {P31751;P41238;Q99576;Q14244;O75157;Q9Y3Q8;P11166;Q93034;P15336;Q14978}

29468 Pathogen[ P03383] interacts with 8 human partners: {Q14244;Q14978;Q13233;Q93034;Q99576;Q9Y3Q8;O75157;P15336}



29469 Pathogen[ P03410] interacts with 10 human partners:{P11166;P41238;Q14978;Q9Y3Q8;Q13233;Q99576;O75157;P15336;Q14244;Q93034}

29470 Pathogen[ P14075] interacts with 8 human partners:{Q93034;Q99576;P15336;Q9Y3Q8;Q13233;Q14978;Q14244;O75157}

29471 Pathogen[ P0C206] interacts with 10 human partners:{P15336;O75157;Q9Y3Q8;P11166;Q13233;Q14244;Q93034;P41238;Q99576;Q14978}

29472 Pathogen[ P03363] interacts with 9 human partners:{Q14978;Q14244;Q99576;Q9Y3Q8;O75157;P15336;Q93034;Q13233;P11166}

29473 [Cluster 2680]GO:0022402+P biological\_process [name] cell cycle process [def] "A cellular process that is involved in the progression of biochemical and morphological phases and events that occur in a cell during successive cell replication or nuclear replication events." [GOC

29474 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9H8E8;Q15637}

29475 Pathogen[ P0C214] interacts with 2 human partners:{Q15637;Q9H8E8}

29476 Pathogen[ P03346] interacts with 2 human partners:{Q15637;Q9H8E8}

29477 Pathogen[ Q85601] interacts with 2 human partners:{Q15637;Q9H8E8}

29478 Pathogen[ P14079] interacts with 2 human partners:{Q15637;Q9H8E8}

29479 Pathogen[ P03383] interacts with 2 human partners:{Q9H8E8;Q15637}

29480 Pathogen[ P03410] interacts with 2 human partners:{Q15637;Q9H8E8}

29481 Pathogen[ P14075] interacts with 2 human partners:{Q9H8E8;Q15637}

29482 Pathogen[ P0C206] interacts with 1 human partners:{Q15637}

29483 Pathogen[ P03363] interacts with 2 human partners:{Q9H8E8;Q15637}

29484 [Cluster 2681]GO:2000623+P biological\_process [name] negative regulation of nuclear-transcribed mRNA catabolic process, nonsense-mediated decay [def] "Any process that stops, prevents or reduces the frequency, rate or extent of nuclear-transcribed mRNA catabolic process, nonsense-mediated decay." [GOC

29485 Pathogen[ Q2Q067] interacts with 1 human partners:{P11940}

29486 Pathogen[ P0C214] interacts with 1 human partners:{P11940}

29487 Pathogen[ P03346] interacts with 1 human partners:{P11940}

29488 Pathogen[ Q85601] interacts with 1 human partners:{P11940}

29489 Pathogen[ P14079] interacts with 1 human partners:{P11940}

29490 Pathogen[ P03383] interacts with 1 human partners:{P11940}

29491 Pathogen[ P03410] interacts with 1 human partners:{P11940}

29492 Pathogen[ P14075] interacts with 1 human partners:{P11940}

29493 Pathogen[ P0C206] interacts with 1 human partners:{P11940}

29494 Pathogen[ P03363] interacts with 1 human partners:{P11940}

29495 [Cluster 2682]GO:0051101+P biological\_process [name] regulation of DNA binding [def] "Any process that modulates the frequency, rate or extent of DNA binding. DNA binding is any process in which a gene product interacts selectively with DNA (deoxyribonucleic acid)." [GOC

29496 Pathogen[ Q2Q067] interacts with 3 human partners:{P20749;P67870;Q8NCD3}

29497 Pathogen[ P0C214] interacts with 3 human partners:{Q8NCD3;P20749;P67870}

29498 Pathogen[ P03346] interacts with 3 human partners:{Q8NCD3;P20749;P67870}

29499 Pathogen[ Q85601] interacts with 3 human partners:{Q8NCD3;P67870;P20749}

29500 Pathogen[ P14079] interacts with 3 human partners:{P20749;Q8NCD3;P67870}

29501 Pathogen[ P03383] interacts with 3 human partners:{P20749;P67870;Q8NCD3}

29502 Pathogen[ P03410] interacts with 3 human partners:{P20749;Q8NCD3;P67870}

29503 Pathogen[ P14075] interacts with 3 human partners:{P67870;Q8NCD3;P20749}

29504 Pathogen[ P0C206] interacts with 3 human partners:{Q8NCD3;P67870;P20749}

29505 Pathogen[ P03363] interacts with 3 human partners:{P20749;Q8NCD3;P67870}

29506 [Cluster 2683]GO:0051085+P biological\_process [name] chaperone mediated protein folding requiring cofactor [def] "The process of assisting in the correct posttranslational noncovalent assembly of proteins, which is dependent on additional protein cofactors. This process occurs over one or several cycles of nucleotide hydrolysis-dependent binding and release." [GOC

29507 Pathogen[ Q2Q067] interacts with 3 human partners:{P11142;O14656;P25685}

29508 Pathogen[ P0C214] interacts with 3 human partners:{O14656;P11142;P25685}

29509 Pathogen[ P03346] interacts with 3 human partners:{P25685;O14656;P11142}

29510 Pathogen[ Q85601] interacts with 3 human partners:{P25685;P11142;O14656}

29511 Pathogen[ P14079] interacts with 3 human partners:{P11142;P25685;O14656}

29512 Pathogen[ P03383] interacts with 1 human partners:{P11142}

29513 Pathogen[ P03410] interacts with 3 human partners:{O14656;P25685;P11142}

29514 Pathogen[ P14075] interacts with 1 human partners:{P11142}

29515 Pathogen[ P0C206] interacts with 3 human partners:{O14656;P25685;P11142}

29516 Pathogen[ P03363] interacts with 2 human partners:{P25685;P11142}

29517 [Cluster 2684]GO:0006543+P biological\_process [name] glutamine catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of glutamine, 2-amino-4-carbamoylbutanoic acid." [GOC

29518 Pathogen[ Q2Q067] interacts with 1 human partners:{O94925}

29519 Pathogen[ P0C214] interacts with 1 human partners:{O94925}

29520 Pathogen[ P03346] interacts with 1 human partners:{O94925}

29521 Pathogen[ Q85601] interacts with 1 human partners:{O94925}

29522 Pathogen[ P14079] interacts with 1 human partners:{O94925}

29523 Pathogen[ P03383] interacts with 1 human partners:{O94925}

29524 Pathogen[ P03410] interacts with 1 human partners:{O94925}

29525 Pathogen[ P14075] interacts with 1 human partners:{O94925}

29526 Pathogen[ P0C206] interacts with 1 human partners:{094925}

29527 Pathogen[ P03363] interacts with 1 human partners:{094925}

29528 [Cluster 2685]GO:0090344+P biological\_process [name] negative regulation of cell aging  
[def] "Any process that decreases the rate, frequency, or extent of cell aging. Cell aging is the progression of the cell from its inception to the end of its lifespan."  
[GOC

29529 Pathogen[ Q2Q067] interacts with 2 human partners:{Q08050;Q9UM11}

29530 Pathogen[ P0C214] interacts with 1 human partners:{Q9UM11}

29531 Pathogen[ P03346] interacts with 2 human partners:{Q9UM11;Q08050}

29532 Pathogen[ Q85601] interacts with 2 human partners:{Q9UM11;Q08050}

29533 Pathogen[ P14079] interacts with 1 human partners:{Q9UM11}

29534 Pathogen[ P03383] interacts with 1 human partners:{Q9UM11}

29535 Pathogen[ P03410] interacts with 1 human partners:{Q9UM11}

29536 Pathogen[ P14075] interacts with 2 human partners:{Q9UM11;Q08050}

29537 Pathogen[ P0C206] interacts with 2 human partners:{Q9UM11;Q08050}

29538 Pathogen[ P03363] interacts with 2 human partners:{Q9UM11;Q08050}

29539 [Cluster 2686]GO:0016553+P biological\_process [name] base conversion or substitution editing [def] "Any base modification or substitution events that result in alterations in the coding potential or structural properties of RNAs as a result of changes in the base-pairing properties of the modified ribonucleoside(s)." [PMID

29540 Pathogen[ Q2Q067] interacts with 2 human partners:{P55265;Q9HC16}

29541 Pathogen[ P0C214] interacts with 2 human partners:{P55265;Q9HC16}

29542 Pathogen[ P03346] interacts with 1 human partners:{P55265}

29543 Pathogen[ Q85601] interacts with 2 human partners:{Q9HC16;P55265}

29544 Pathogen[ P14079] interacts with 2 human partners:{Q9HC16;P55265}

29545 Pathogen[ P03383] interacts with 1 human partners:{P55265}

29546 Pathogen[ P03410] interacts with 2 human partners:{P55265;Q9HC16}

29547 Pathogen[ P14075] interacts with 1 human partners:{P55265}

29548 Pathogen[ P0C206] interacts with 2 human partners:{P55265;Q9HC16}

29549 Pathogen[ P03363] interacts with 1 human partners:{P55265}

29550 [Cluster 2687]GO:2001244+P biological\_process [name] positive regulation of intrinsic apoptotic signaling pathway [def] "Any process that activates or increases the frequency, rate or extent of intrinsic apoptotic signaling pathway." [GOC

29551 Pathogen[ Q2Q067] interacts with 4 human partners:{Q9BXH1;Q9NYF8;Q13794;O43236}

29552 Pathogen[ P0C214] interacts with 5 human partners:{Q13794;Q9BXH1;P10909;O43236;Q9NYF8}

29553 Pathogen[ P03346] interacts with 5 human partners:{O43236;Q8IUQ4;Q9NYF8;Q9BXH1;Q13794}

29554 Pathogen[ Q85601] interacts with 4 human partners:{Q9BXH1;Q9NYF8;Q13794;O43236}

29555 Pathogen[ P14079] interacts with 5 human partners:{P10909;Q9BXH1;Q9NYF8;Q13794;O43236}

29556 Pathogen[ P03383] interacts with 4 human partners:{O43236;Q9NYF8;Q13794;Q9BXH1}

29557 Pathogen[ P03410] interacts with 5 human partners:{Q9BXH1;Q13794;O43236;Q9NYF8;P10909}

29558 Pathogen[ P14075] interacts with 4 human partners:{O43236;Q9NYF8;Q9BXH1;Q13794}

29559 Pathogen[ P0C206] interacts with 6 human partners:{Q8IUQ4;Q9BXH1;O43236;Q9NYF8;P10909;Q13794}

29560 Pathogen[ P03363] interacts with 4 human partners:{Q13794;Q9NYF8;Q9BXH1;O43236}

29561 [Cluster 2688]GO:0043542+P biological\_process [name] endothelial cell migration [def] "The orderly movement of an endothelial cell into the extracellular matrix to form an endothelium." [GOC

29562 Pathogen[ Q2Q067] interacts with 4 human partners:{Q6ZW49;P29474;P25815;P42224}

29563 Pathogen[ P0C214] interacts with 4 human partners:{P29474;P42224;Q6ZW49;P25815}

29564 Pathogen[ P03346] interacts with 5 human partners:{O14908;P29474;P25815;P42224;Q6ZW49}

29565 Pathogen[ Q85601] interacts with 4 human partners:{P25815;P42224;Q6ZW49;P29474}

29566 Pathogen[ P14079] interacts with 4 human partners:{P25815;Q6ZW49;P42224;O14908}

29567 Pathogen[ P03383] interacts with 3 human partners:{P25815;P29474;Q6ZW49}

29568 Pathogen[ P03410] interacts with 4 human partners:{O14908;P25815;P29474;Q6ZW49}

29569 Pathogen[ P14075] interacts with 3 human partners:{P29474;Q6ZW49;P25815}

29570 Pathogen[ P0C206] interacts with 5 human partners:{Q6ZW49;P25815;O14908;P29474;P42224}

29571 Pathogen[ P03363] interacts with 4 human partners:{P29474;O14908;P25815;Q6ZW49}

29572 [Cluster 2689]GO:0006420+P biological\_process [name] arginyl-tRNA aminoacylation [def] "The process of coupling arginine to arginyl-tRNA, catalyzed by arginyl-tRNA synthetase. In tRNA aminoacylation, the amino acid is first activated by linkage to AMP and then transferred to either the 2'- or the 3'-hydroxyl group of the 3'-adenosine residue of the tRNA." [GOC

29573 Pathogen[ Q2Q067] interacts with 2 human partners:{Q5T160;P54136}

29574 Pathogen[ P0C214] interacts with 2 human partners:{Q5T160;Q5D0E6}

29575 Pathogen[ P03346] interacts with 1 human partners:{P54136}

29576 Pathogen[ Q85601] interacts with 3 human partners:{P54136;Q5T160;Q5D0E6}

29577 Pathogen[ P14079] interacts with 3 human partners:{P54136;Q5T160;Q5D0E6}

29578 Pathogen[ P03383] interacts with 3 human partners:{Q5D0E6;Q5T160;P54136}

29579 Pathogen[ P03410] interacts with 3 human partners:{P54136;Q5D0E6;Q5T160}

29580 Pathogen[ P14075] interacts with 3 human partners:{P54136;Q5D0E6;Q5T160}

29581 Pathogen[ P0C206] interacts with 3 human partners:{Q5D0E6;Q5T160;P54136}  
29582 Pathogen[ P03363] interacts with 2 human partners:{P54136;Q5T160}  
29583 [Cluster 2690]GO:0045663+P biological\_process [name] positive regulation of myoblast differentiation [def] "Any process that activates or increases the frequency, rate or extent of myoblast differentiation. A myoblast is a mononucleate cell type that, by fusion with other myoblasts, gives rise to the myotubes that eventually develop into skeletal muscle fibers." [CL  
29584 Pathogen[ Q2Q067] interacts with 4 human partners:{P62324;Q9NWT6;P27986;Q8NB12}  
29585 Pathogen[ P0C214] interacts with 5 human partners:{Q9Y3R4;P62324;Q8NB12;P27986;Q9NWT6}  
29586 Pathogen[ P03346] interacts with 5 human partners:{Q15911;Q8NB12;Q9NWT6;P62324;P27986}  
29587 Pathogen[ Q85601] interacts with 4 human partners:{Q8NB12;Q9NWT6;P62324;P27986}  
29588 Pathogen[ P14079] interacts with 6 human partners:{Q06413;P62324;Q15911;Q9NWT6;Q8NB12;Q9Y3R4}  
29589 Pathogen[ P03383] interacts with 3 human partners:{P27986;Q9NWT6;P62324}  
29590 Pathogen[ P03410] interacts with 5 human partners:{P27986;Q9NWT6;P62324;Q8NB12;Q9Y3R4}  
29591 Pathogen[ P14075] interacts with 3 human partners:{P62324;P27986;Q9NWT6}  
29592 Pathogen[ P0C206] interacts with 6 human partners:{P62324;Q15911;P27986;Q9Y3R4;Q9NWT6;Q8NB12}  
29593 Pathogen[ P03363] interacts with 4 human partners:{Q15911;P62324;Q8NB12;P27986}  
29594 [Cluster 2691]GO:0007064+P biological\_process [name] mitotic sister chromatid cohesion [def] "The cell cycle process in which the sister chromatids of a replicated chromosome are joined along the entire length of the chromosome, from their formation in S phase through metaphase during a mitotic cell cycle. This cohesion cycle is critical for high fidelity chromosome transmission." [GOC  
29595 Pathogen[ Q2Q067] interacts with 4 human partners:{Q7Z3K3;Q9NTI5;Q14683;Q96FF9}  
29596 Pathogen[ P0C214] interacts with 4 human partners:{Q7Z3K3;Q96FF9;Q14683;Q9NTI5}  
29597 Pathogen[ P03346] interacts with 4 human partners:{Q7Z3K3;Q96FF9;Q14683;Q9NTI5}  
29598 Pathogen[ Q85601] interacts with 4 human partners:{Q9NTI5;Q7Z3K3;Q14683;Q96FF9}  
29599 Pathogen[ P14079] interacts with 4 human partners:{Q96FF9;Q7Z3K3;Q9NTI5;Q14683}  
29600 Pathogen[ P03383] interacts with 4 human partners:{Q14683;Q7Z3K3;Q96FF9;Q9NTI5}  
29601 Pathogen[ P03410] interacts with 4 human partners:{Q9NTI5;Q14683;Q7Z3K3;Q96FF9}  
29602 Pathogen[ P14075] interacts with 4 human partners:{Q14683;Q96FF9;Q7Z3K3;Q9NTI5}  
29603 Pathogen[ P0C206] interacts with 4 human partners:{Q96FF9;Q14683;Q7Z3K3;Q9NTI5}  
29604 Pathogen[ P03363] interacts with 4 human partners:{Q7Z3K3;Q9NTI5;Q96FF9;Q14683}  
29605 [Cluster 2692]GO:0009404+P biological\_process [name] toxin metabolic process [def] "The chemical reactions and pathways involving a toxin, a poisonous compound (typically a protein) that is produced by cells or organisms and that can cause disease when introduced into the body or tissues of an organism." [GOC  
29606 Pathogen[ Q2Q067] interacts with 1 human partners:{P54259}  
29607 Pathogen[ P0C214] interacts with 2 human partners:{Q9HBK9;P54259}  
29608 Pathogen[ P03346] interacts with 2 human partners:{Q9HBK9;P54259}  
29609 Pathogen[ Q85601] interacts with 1 human partners:{P54259}  
29610 Pathogen[ P14079] interacts with 2 human partners:{Q9HBK9;P54259}  
29611 Pathogen[ P03383] interacts with 1 human partners:{P54259}  
29612 Pathogen[ P03410] interacts with 2 human partners:{Q9HBK9;P54259}  
29613 Pathogen[ P14075] interacts with 1 human partners:{P54259}  
29614 Pathogen[ P0C206] interacts with 2 human partners:{P54259;Q9HBK9}  
29615 Pathogen[ P03363] interacts with 2 human partners:{P54259;Q9HBK9}  
29616 [Cluster 2693]GO:0031047+P biological\_process [name] gene silencing by RNA [def] "Any process in which RNA molecules inactivate expression of target genes." [GOC  
29617 Pathogen[ Q2Q067] interacts with 21 human partners:{P55265;Q8TAD8;Q7KZF4;Q9HCK5;A6NIX2;Q9NRR4;Q15633;Q5TAX3;Q96IF1;Q9UGP4;Q9H9G7;Q9H9Z2;Q9UKV8;Q9HAV4;Q09161;Q9HCE1;P52298;Q5T8I9;Q9UL18;Q6ZN17;Q9BXP5}  
29618 Pathogen[ P0C214] interacts with 24 human partners:{Q9UGP4;Q6ZN17;Q09161;Q8TAD8;P55265;Q9HAV4;Q7KZF4;Q9HCE1;Q9UPQ9;Q15633;P52298;A6NIX2;Q5T8I9;Q9H9G7;Q8NDV7;Q9NRR4;Q8IV48;Q9H9Z2;Q9UKV8;Q9HCK5;Q9HCJ0;Q9UL18;Q9BXP5;Q5TAX3}  
29619 Pathogen[ P03346] interacts with 25 human partners:{Q09161;Q9HAV4;Q9UGP4;Q5T8I9;P55265;Q9H9G7;Q9UL18;Q15633;Q96J94;Q96IF1;P52298;Q9BXP5;Q9BWF3;Q9HCK5;Q5TAX3;Q7KZF4;Q75569;A6NIX2;Q9UKV8;Q9NRR4;Q9H9Z2;Q9UPQ9;Q9HCE1;Q8TAD8;Q6ZN17}  
29620 Pathogen[ Q85601] interacts with 22 human partners:{Q9HCE1;Q9HAV4;Q6ZN17;Q9HCK5;A6NIX2;Q9UL18;Q9NRR4;Q5T8I9;Q7KZF4;Q09161;Q9H9G7;Q5TAX3;Q9BXP5;Q9UKV8;Q15633;P55265;Q96IF1;Q9UGP4;Q8TAD8;P52298;Q9UPQ9;Q9H9Z2}  
29621 Pathogen[ P14079] interacts with 25 human partners:{Q8IV48;Q9UKV8;Q9UL18;Q9H9G7;P52298;Q9HCE1;Q9HCK5;Q75569;Q9H9Z2;Q5TAX3;P52298;Q9HCJ0;Q96IF1;A6NIX2;Q9NRR4;Q8TAD8;Q7KZF4;Q9HAV4;Q96JY0;Q9BXP5;Q6ZN17;Q9UGP4;Q09161;Q9UPQ9;Q8NDV7}  
29622 Pathogen[ P03383] interacts with 21 human partners:{Q9NRR4;Q8TAD8;Q9H9Z2;Q9UL18;Q9UPQ9;A6NIX2;Q6ZN17;Q5T8I9;Q9HCK5;Q09161;Q5TAX3;Q9HAV4;Q7KZF4;Q9UKV8;P52298;P55265;Q9BXP5;Q9HCE1;Q9H9G7;Q15633}  
29623 Pathogen[ P03410] interacts with 26 human partners:{Q9UPQ9;Q9UKV8;Q15633;Q8IV48;Q9BXP5;Q9UL18;Q5TAX3;Q9UGP4;Q9HCJ0;Q5T8I9;Q8ND

V7;Q9H9G7;P55265;Q8TAD8;Q9NRR4;O75569;Q96IF1;A6NIX2;P52298;Q9HCE1;Q9HCK5;Q9H9Z2;Q7KZ  
F4;Q09161;Q6ZN17;Q9HAV4}

29624 Pathogen[ P14075] interacts with 21 human  
partners: {Q09161;Q8TAD8;P55265;Q9HCK5;Q9H9G7;Q9UGP4;Q9H9Z2;Q9HCE1;Q5TAX3;Q9HAV4;Q6ZN  
17;Q9UPQ9;Q5T8I9;A6NIX2;Q9NRR4;Q9UKV8;Q15633;Q9UL18;Q7KZF4;Q9BXP5;P52298}

29625 Pathogen[ POC206] interacts with 24 human  
partners: {Q9HCK5;P52298;P55265;Q09161;Q8TAD8;Q9UGP4;Q96IF1;Q8IV48;A6NIX2;Q9UPQ9;Q7KZ  
F4;Q9UKV8;Q8NDV7;Q5T8I9;Q9HAV4;Q6ZN17;Q9HCE1;Q9H9Z2;Q9NRR4;Q5TAX3;Q15633;Q9BXP5;Q9H9  
G7;Q9UL18}

29626 Pathogen[ P03363] interacts with 28 human  
partners: {Q6ZN17;Q9BXP5;Q7Z3Z4;Q9HAV4;Q9H9G7;Q5T8I9;Q9HCK5;Q9UKV8;Q9BWF3;Q15633;Q8ND  
V7;Q7KZF4;Q96IF1;Q9UGP4;Q96JY0;Q9HCE1;Q9H9Z2;P52298;P55265;Q9NRR4;Q5TAX3;Q9UPQ9;Q9UL  
18;Q8TAD8;A6NIX2;Q96J94;O75569;Q09161}

29627 [Cluster 2694]GO:0014706+P biological\_process [name] striated muscle tissue  
development [def] "The process whose specific outcome is the progression of a striated  
muscle over time, from its formation to the mature structure. Striated muscle contain  
fibers that are divided by transverse bands into striations, and cardiac and skeletal  
muscle are types of striated muscle. Skeletal muscle myoblasts fuse to form myotubes and  
eventually multinucleated muscle fibers. The fusion of cardiac cells is very rare and  
can only form binucleate cells." [CL

29628 Pathogen[ Q2Q067] interacts with 2 human partners: {Q99502;O00167}

29629 Pathogen[ POC214] interacts with 2 human partners: {O00167;Q99502}

29630 Pathogen[ P03346] interacts with 2 human partners: {O00167;Q99502}

29631 Pathogen[ Q85601] interacts with 2 human partners: {Q99502;O00167}

29632 Pathogen[ P14079] interacts with 2 human partners: {Q99502;O00167}

29633 Pathogen[ P03383] interacts with 1 human partners: {O00167}

29634 Pathogen[ P03410] interacts with 2 human partners: {Q99502;O00167}

29635 Pathogen[ P14075] interacts with 2 human partners: {O00167;Q99502}

29636 Pathogen[ POC206] interacts with 2 human partners: {O00167;Q99502}

29637 Pathogen[ P03363] interacts with 1 human partners: {O00167}

29638 [Cluster 2695]GO:0007004+P biological\_process [name] telomere maintenance via  
telomerase [def] "The maintenance of proper telomeric length by the addition of  
telomeric repeats by telomerase." [GOC

29639 Pathogen[ Q2Q067] interacts with 9 human  
partners: {P49959;Q9NYB0;Q15554;P54274;O60832;O14746;Q96BK5;Q9C0C2;P35251}

29640 Pathogen[ POC214] interacts with 9 human  
partners: {Q96BK5;O14746;P49959;Q15554;Q9C0C2;P35251;O60832;Q9NYB0;P54274}

29641 Pathogen[ P03346] interacts with 10 human  
partners: {Q15554;P54274;O60832;O14746;Q9NUX5;Q96BK5;Q9NYB0;P49959;Q9C0C2;P35251}

29642 Pathogen[ Q85601] interacts with 9 human  
partners: {Q15554;P49959;Q96BK5;P35251;Q9C0C2;O14746;Q9NYB0;O60832;P54274}

29643 Pathogen[ P14079] interacts with 9 human  
partners: {P54274;O14746;Q9NUX5;O60832;Q9C0C2;P35251;Q9NYB0;Q15554;Q96BK5}

29644 Pathogen[ P03383] interacts with 8 human  
partners: {Q9NYB0;Q15554;Q96BK5;Q9C0C2;O14746;O60832;P54274;P35251}

29645 Pathogen[ P03410] interacts with 10 human  
partners: {P49959;Q9NUX5;Q15554;O14746;P54274;Q9C0C2;O60832;P35251;Q96BK5;Q9NYB0}

29646 Pathogen[ P14075] interacts with 8 human  
partners: {O14746;Q15554;Q96BK5;P54274;P35251;O60832;Q9C0C2;Q9NYB0}

29647 Pathogen[ POC206] interacts with 10 human  
partners: {P49959;P35251;Q15554;Q96BK5;P54274;O60832;Q9C0C2;Q9NYB0;Q9NUX5;O14746}

29648 Pathogen[ P03363] interacts with 9 human  
partners: {O60832;Q15554;Q96BK5;Q9NYB0;P35251;O14746;P54274;Q9C0C2;Q9NUX5}

29649 [Cluster 2696]GO:0019882+P biological\_process [name] antigen processing and  
presentation [def] "The process in which an antigen-presenting cell expresses antigen  
(peptide or lipid) on its cell surface in association with an MHC protein complex."  
[GO\_REF

29650 Pathogen[ Q2Q067] interacts with 3 human partners: {Q01201;P28065;P28062}

29651 Pathogen[ POC214] interacts with 3 human partners: {P28062;P28065;Q01201}

29652 Pathogen[ P03346] interacts with 4 human partners: {Q01201;P28062;P28065;O14617}

29653 Pathogen[ Q85601] interacts with 3 human partners: {P28062;Q01201;P28065}

29654 Pathogen[ P14079] interacts with 4 human partners: {P28065;Q01201;P28062;O14617}

29655 Pathogen[ P03383] interacts with 3 human partners: {Q01201;P28065;P28062}

29656 Pathogen[ P03410] interacts with 5 human  
partners: {O00203;O14617;Q01201;P28062;P28065}

29657 Pathogen[ P14075] interacts with 3 human partners: {Q01201;P28062;P28065}

29658 Pathogen[ POC206] interacts with 4 human partners: {P28062;P28065;Q01201;O14617}

29659 Pathogen[ P03363] interacts with 1 human partners: {Q01201}

29660 [Cluster 2697]GO:0030878+P biological\_process [name] thyroid gland development  
[def] "The process whose specific outcome is the progression of the thyroid gland over  
time, from its formation to the mature structure. The thyroid gland is an  
endoderm-derived gland that produces thyroid hormone." [GOC

29661 Pathogen[ Q2Q067] interacts with 5 human  
partners: {O43365;P10827;P20719;P84022;P14651}

29662 Pathogen[ POC214] interacts with 4 human partners: {O43365;P31249;P84022;P14651}

29663 Pathogen[ P03346] interacts with 8 human

29664 partners:{P31249;P10827;P20719;O43365;Q06710;P84022;Q15475;P14651}  
Pathogen[ Q85601] interacts with 5 human

29665 partners:{P10827;P31249;P84022;P14651;O43365}  
Pathogen[ P14079] interacts with 5 human

29666 partners:{P01215;P10827;P31249;O43365;P14651}  
Pathogen[ P03383] interacts with 5 human

29667 partners:{O43365;P31249;P84022;P01215;P14651}  
Pathogen[ P03410] interacts with 5 human

29668 partners:{P84022;P14651;P31249;P01215;O43365}  
Pathogen[ P14075] interacts with 4 human partners:{P31249;O43365;P84022;P01215}

29669 Pathogen[ P0C206] interacts with 7 human  
partners:{P84022;O43365;P14651;P01215;P20719;P31249;P10827}

29670 Pathogen[ P03363] interacts with 5 human  
partners:{O43365;P14651;P20719;P31249;P84022}

29671 [Cluster 2698]GO:0042476+P biological\_process [name] odontogenesis [def] "The process whose specific outcome is the progression of a tooth or teeth over time, from formation to the mature structure(s). A tooth is any hard bony, calcareous, or chitinous organ found in the mouth or pharynx of an animal and used in procuring or masticating food." [GOC

29672 Pathogen[ Q2Q067] interacts with 3 human partners:{P35548;Q6W2J9;P55771}

29673 Pathogen[ P0C214] interacts with 4 human partners:{Q6W2J9;P17026;P35548;P55771}

29674 Pathogen[ P03346] interacts with 5 human  
partners:{P35548;Q02535;P17026;Q6W2J9;P55771}

29675 Pathogen[ Q85601] interacts with 4 human partners:{P17026;P55771;P35548;Q6W2J9}

29676 Pathogen[ P14079] interacts with 5 human  
partners:{P55771;Q6W2J9;P54826;P17026;P28360}

29677 Pathogen[ P03383] interacts with 3 human partners:{P55771;Q6W2J9;P35548}

29678 Pathogen[ P03410] interacts with 6 human  
partners:{Q6W2J9;P35548;P17026;P55771;P54826;Q9NRM1}

29679 Pathogen[ P14075] interacts with 4 human partners:{P35548;Q6W2J9;P55771;P54826}

29680 Pathogen[ P0C206] interacts with 5 human  
partners:{P17026;Q6W2J9;P55771;P35548;P54826}

29681 Pathogen[ P03363] interacts with 3 human partners:{P55771;P35548;Q6W2J9}

29682 [Cluster 2699]GO:0006809+P biological\_process [name] nitric oxide biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of nitric oxide, nitrogen monoxide (NO), a colorless gas only slightly soluble in water." [GOC

29683 Pathogen[ Q2Q067] interacts with 6 human  
partners:{P31749;P30793;P15559;P29474;O95865;P30047}

29684 Pathogen[ P0C214] interacts with 7 human  
partners:{P29474;P35270;P30793;O95865;P30047;P15559;P31749}

29685 Pathogen[ P03346] interacts with 6 human  
partners:{P29474;P15559;P30047;P31749;O95865;P35398}

29686 Pathogen[ Q85601] interacts with 5 human  
partners:{P31749;P30793;P30047;P29474;O95865}

29687 Pathogen[ P14079] interacts with 5 human  
partners:{P35398;P15559;P30793;P30047;O95865}

29688 Pathogen[ P03383] interacts with 4 human partners:{P29474;O95865;P31749;P30047}

29689 Pathogen[ P03410] interacts with 6 human  
partners:{P15559;P30047;O95865;P31749;P30793;P29474}

29690 Pathogen[ P14075] interacts with 6 human  
partners:{P29474;P15559;P31749;O95865;P30047;P30793}

29691 Pathogen[ P0C206] interacts with 7 human  
partners:{P35398;P31749;P15559;P30793;O95865;P30047;P29474}

29692 Pathogen[ P03363] interacts with 5 human  
partners:{P29474;P31749;P35398;O95865;P30047}

29693 [Cluster 2700]GO:0046686+P biological\_process [name] response to cadmium ion [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a cadmium (Cd) ion stimulus." [GOC

29694 Pathogen[ Q2Q067] interacts with 4 human partners:{P04156;P12004;Q14872;P45984}

29695 Pathogen[ P0C214] interacts with 3 human partners:{Q14872;P04156;P45984}

29696 Pathogen[ P03346] interacts with 4 human partners:{P12004;P45984;Q14872;P04156}

29697 Pathogen[ Q85601] interacts with 4 human partners:{Q14872;P45984;P04156;P12004}

29698 Pathogen[ P14079] interacts with 5 human  
partners:{P04156;P45984;P45983;Q14872;P12004}

29699 Pathogen[ P03383] interacts with 3 human partners:{P04156;Q14872;P45984}

29700 Pathogen[ P03410] interacts with 4 human partners:{Q14872;P04156;P45984;P12004}

29701 Pathogen[ P14075] interacts with 3 human partners:{P04156;Q14872;P45984}

29702 Pathogen[ P0C206] interacts with 4 human partners:{P04156;P45984;Q14872;P12004}

29703 Pathogen[ P03363] interacts with 2 human partners:{P04156;Q14872}

29704 [Cluster 2701]GO:0009791+P biological\_process [name] post-embryonic development [def] "The process whose specific outcome is the progression of the organism over time, from the completion of embryonic development to the mature structure. See embryonic development." [GOC

29705 Pathogen[ Q2Q067] interacts with 14 human  
partners:{Q96S65;P35712;P22033;A6NFD8;O15350;Q9Y3Y4;Q8WUF5;Q99608;Q14865;Q15796;Q9UK

29706 Pathogen[ P0C214] interacts with 15 human partners: {Q96S65;Q14865;Q8WUF5;O15350;Q03112;Q99608;P48200;P22033;P05543;Q15796;Q9UKV8;Q6Y7W6;Q9Y3Y4;P21399;P35712}

29707 Pathogen[ P03346] interacts with 20 human partners: {Q96S65;P50219;Q9Y283;A6NFD8;Q14149;Q16559;Q9Y3Y4;Q15796;Q04741;O15350;Q03112;P48200;Q9UKV8;Q8WUF5;Q14865;Q99608;Q9HB21;P35712;P21399;Q8TAU0}

29708 Pathogen[ Q85601] interacts with 18 human partners: {Q96S65;P21399;Q9Y283;Q03112;P48200;Q6Y7W6;P35712;Q99608;Q14149;A6NFD8;Q9HB21;P22033;Q14865;Q9UKV8;Q8WUF5;O15350;Q9Y3Y4;Q15796}

29709 Pathogen[ P14079] interacts with 19 human partners: {Q9UKV8;Q96A33;Q8WUF5;P21399;Q6Y7W6;Q14865;P35712;Q99608;O15350;Q6N021;Q96S65;Q14149;Q9Y6X1;P48200;Q9Y3Y4;P22033;Q9Y283;Q9HB21;A6NFD8}

29710 Pathogen[ P03383] interacts with 11 human partners: {Q96S65;P35712;Q99608;P48200;Q03112;O15350;P22033;Q9UKV8;Q8WUF5;Q15796;Q9Y3Y4}

29711 Pathogen[ P03410] interacts with 22 human partners: {P35712;Q03112;Q9UKV8;Q14149;Q96A33;Q99608;Q6N021;A6NFD8;Q9Y283;Q9HB21;Q9Y6X1;P21399;Q96S65;Q6Y7W6;O15350;Q9Y3Y4;P48200;Q14865;Q15796;P22033;Q8WUF5;Q16559}

29712 Pathogen[ P14075] interacts with 11 human partners: {Q96S65;Q99608;Q9Y3Y4;Q8WUF5;Q15796;P22033;O15350;P35712;Q9UKV8;Q03112;P48200}

29713 Pathogen[ P0C206] interacts with 20 human partners: {Q96A33;Q8WUF5;Q96S65;Q9Y3Y4;A6NFD8;Q9UKV8;Q15796;Q9Y283;P48200;Q6Y7W6;Q03112;Q14149;Q99608;Q9HB21;P35712;O15350;Q14865;Q8TAU0;P22033;P21399}

29714 Pathogen[ P03363] interacts with 15 human partners: {Q96S65;Q14865;Q03112;P48200;Q9UKV8;Q8WUF5;Q9Y3Y4;Q99608;Q15796;Q9Y283;P35712;Q04741;Q8TAU0;P50219;A6NFD8}

29715 [Cluster 2702]GO:0072332+P biological\_process [name] signal transduction by p53 class mediator resulting in induction of apoptosis [def] "A cascade of processes induced by the cell cycle regulator phosphoprotein p53, or an equivalent protein, that results in the induction of apoptosis." [GOC

29716 Pathogen[ Q2Q067] interacts with 5 human partners: {Q9UMX3;O43159;Q16666;Q13794;Q9BQG0}

29717 Pathogen[ P0C214] interacts with 5 human partners: {O43159;Q9BQG0;Q16666;Q13794;Q9UMX3}

29718 Pathogen[ P03346] interacts with 5 human partners: {Q16666;Q9BQG0;O43159;Q9UMX3;Q13794}

29719 Pathogen[ Q85601] interacts with 5 human partners: {Q16666;Q9BQG0;O43159;Q9UMX3;Q13794}

29720 Pathogen[ P14079] interacts with 5 human partners: {Q9BQG0;Q13794;Q9UMX3;O43159;Q16666}

29721 Pathogen[ P03383] interacts with 5 human partners: {Q9BQG0;Q9UMX3;O43159;Q16666;Q13794}

29722 Pathogen[ P03410] interacts with 5 human partners: {Q16666;Q13794;O43159;Q9UMX3;Q9BQG0}

29723 Pathogen[ P14075] interacts with 5 human partners: {Q9UMX3;Q16666;Q9BQG0;Q13794;O43159}

29724 Pathogen[ P0C206] interacts with 5 human partners: {O43159;Q9UMX3;Q16666;Q9BQG0;Q13794}

29725 Pathogen[ P03363] interacts with 5 human partners: {Q13794;Q9BQG0;Q16666;O43159;Q9UMX3}

29726 [Cluster 2703]GO:0090284+P biological\_process [name] positive regulation of protein glycosylation in Golgi [def] "Any process that increases the rate, frequency, or extent of the addition of a sugar unit to a protein amino acid in any compartment of the Golgi apparatus." [GOC

29727 Pathogen[ Q2Q067] interacts with 1 human partners: {Q9Y6D6}

29728 Pathogen[ P0C214] interacts with 1 human partners: {Q9Y6D6}

29729 Pathogen[ P03346] interacts with 1 human partners: {Q9Y6D6}

29730 Pathogen[ Q85601] interacts with 1 human partners: {Q9Y6D6}

29731 Pathogen[ P14079] interacts with 1 human partners: {Q9Y6D6}

29732 Pathogen[ P03383] interacts with 1 human partners: {Q9Y6D6}

29733 Pathogen[ P03410] interacts with 1 human partners: {Q9Y6D6}

29734 Pathogen[ P14075] interacts with 1 human partners: {Q9Y6D6}

29735 Pathogen[ P0C206] interacts with 1 human partners: {Q9Y6D6}

29736 Pathogen[ P03363] interacts with 1 human partners: {Q9Y6D6}

29737 [Cluster 2704]GO:0007031+P biological\_process [name] peroxisome organization [def] "A process that is carried out at the cellular level which results in the assembly, arrangement of constituent parts, or disassembly of a peroxisome. A peroxisome is a small, membrane-bounded organelle that uses dioxygen (O2) to oxidize organic molecules." [GOC

29738 Pathogen[ Q2Q067] interacts with 4 human partners: {O14734;O75381;Q96JE7;P40855}

29739 Pathogen[ P0C214] interacts with 4 human partners: {P40855;O75381;O14734;Q96JE7}

29740 Pathogen[ P03346] interacts with 8 human partners: {O75381;Q96JE7;O14734;P56589;P50542;P40855;O43933;O96011}

29741 Pathogen[ Q85601] interacts with 5 human

29742 partners:{Q96JE7;O14734;O43933;O75381;P40855}  
Pathogen[ P14079] interacts with 10 human

29743 partners:{Q9Y5Y5;O75192;P40855;P56589;Q96JE7;P50542;O96011;O14734;O75381;Q86UB9}  
Pathogen[ P03383] interacts with 4 human partners:{O14734;O75381;Q96JE7;P40855}

29744 Pathogen[ P03410] interacts with 10 human

29745 partners:{O75192;Q9Y5Y5;O96011;P40855;O75381;O14734;Q96JE7;P50542;P56589;Q86UB9}  
Pathogen[ P14075] interacts with 5 human

29746 partners:{Q96JE7;P40855;O14734;O75381;O75192}  
Pathogen[ P0C206] interacts with 10 human

29747 partners:{O43933;O75192;O75381;P56589;P50542;P40855;Q96JE7;O14734;O96011;Q86UB9}  
Pathogen[ P03363] interacts with 4 human partners:{O14734;O43933;O75381;P40855}

29748 [Cluster 2705]GO:0031647+P biological\_process [name] regulation of protein stability  
[def] "Any process that affects the structure and integrity of a protein by altering the  
likelihood of its degradation or aggregation." [GOC

29749 Pathogen[ Q2Q067] interacts with 10 human

29750 partners:{Q93009;Q9NXV6;Q7Z2E3;Q9Y3I1;Q8N726;Q9NYF0;P59047;Q92830;O15164;P60953}  
Pathogen[ P0C214] interacts with 10 human

29751 partners:{Q9Y3I1;P60953;Q8N726;Q7Z2E3;Q93009;Q9NXV6;O15164;Q92830;Q9NYF0;P59047}  
Pathogen[ P03346] interacts with 13 human

29752 partners:{Q06945;P59047;Q93009;O14908;P60953;Q9NXV6;Q92830;Q9NYF0;Q7Z2E3;Q8N726;Q9Y3  
I1;O14965;O15164}  
Pathogen[ Q85601] interacts with 11 human

29753 partners:{Q9Y3I1;Q93009;Q9NYF0;O15164;O14965;Q92830;Q8N726;P60953;Q7Z2E3;Q9NXV6;P590  
47}  
Pathogen[ P14079] interacts with 12 human

29754 partners:{O15164;Q92830;Q9NXV6;Q8N726;O94777;Q9P2X0;Q9Y3I1;O14965;Q7Z2E3;O14908;P590  
47;Q9NYF0}  
Pathogen[ P03383] interacts with 8 human

29755 partners:{Q7Z2E3;Q9Y3I1;P60953;Q92830;O14965;Q9NYF0;Q9NXV6;Q8N726}  
Pathogen[ P03410] interacts with 12 human

29756 partners:{Q92830;Q8N726;Q9Y3I1;O14908;P59047;O94777;Q9NXV6;O14965;Q7Z2E3;Q9NYF0;P609  
53;Q9P2X0}  
Pathogen[ P14075] interacts with 9 human

29757 partners:{P60953;Q7Z2E3;Q9NXV6;O94777;Q9Y3I1;O14965;Q9NYF0;Q92830;Q8N726}  
Pathogen[ P0C206] interacts with 13 human

29758 partners:{Q92830;Q8N726;Q9NXV6;O94777;O15164;Q93009;P59047;O14908;P60953;Q9NYF0;Q9Y3  
I1;O14965;Q7Z2E3}  
Pathogen[ P03363] interacts with 9 human

29759 partners:{O14908;Q9NYF0;Q9Y3I1;Q92830;Q7Z2E3;P59047;Q8N726;P60953;Q9NXV6}  
[Cluster 2706]GO:0008219+P biological\_process [name] cell death [def] "Any  
biological process that results in permanent cessation of all vital functions of a cell.  
A cell should be considered dead when any one of the following molecular or  
morphological criteria is met

29760 Pathogen[ Q2Q067] interacts with 60 human

29761 partners:{P02792;P54252;P20226;O00291;Q13148;P54259;Q99497;Q12988;O60260;Q96JI7;Q142  
04;Q9NZD8;O60543;Q7Z2E3;Q9UJY1;O95999;P04792;Q96LT7;P38935;Q8NF91;Q9Y3I1;Q156A1;Q9UB  
B4;Q9UHD9;Q68DK2;Q14203;P06746;P54253;Q9H2C0;Q9Y6H5;Q9UNN5;Q9NUW8;Q92562;P78344;Q96R  
L7;O15265;Q9UQN3;P15408;Q96CV9;Q00005;O00567;Q9NZJ4;Q53G26;P37198;P12036;Q96QK1;O432  
99;P54098;Q12983;Q99700;P41250;Q04637;Q9UKK3;P35637;Q9NVV4;Q16637;Q96EY1;Q8NEZ2;O604  
77;Q9UHB4}  
Pathogen[ P0C214] interacts with 70 human

29762 partners:{P41250;Q16637;Q9Y3I1;P35637;Q12988;Q00005;Q96JI7;P06746;P54253;P54098;Q9UB  
B4;Q14203;O60543;Q96QK1;P15408;P04792;O00567;P78344;Q14204;Q99497;O60477;Q9UQN3;P389  
35;Q96LT7;Q99700;Q92562;Q96C11;Q99798;O43299;Q9NZJ4;Q8NF91;P37198;Q9Y6H5;Q9NZD8;Q9UN  
N5;Q9NSK7;Q7Z2E3;O95999;Q96MP8;P10809;Q96RL7;Q8NEZ2;Q53G26;Q96CV9;P20226;Q9BZ23;Q129  
83;Q04637;P12036;P10909;Q9UHB4;Q156A1;Q9UKK3;P02792;O15265;Q6Y7W6;O60260;Q9NUW8;Q68D  
K2;Q13148;Q9H2C0;Q9H902;Q9NVV4;Q9UJY1;Q9UHD9;O00291;Q96EY1;P54252;P54259;P55072}  
Pathogen[ P03346] interacts with 68 human

29763 partners:{P02792;O15265;Q96QK1;Q9UBB4;P38935;Q12988;Q00005;Q96MP8;Q9UHD9;O00567;Q128  
40;P54098;Q13148;Q9UHB4;Q96JI7;Q96LT7;Q8NEZ2;Q9UKK3;P15408;Q9NUW8;Q156A1;Q9UJY1;P783  
44;Q9NZD8;Q9H2C0;Q14204;Q14203;Q9NZJ4;Q92562;P37198;O00291;Q12983;P55072;O95999;P202  
26;Q16637;Q9H902;P41250;Q7Z333;P35637;Q99700;P12036;Q96CV9;Q9UNN5;O60477;Q96RL7;Q9NV  
V4;Q9Y6H5;Q53G26;Q8N0X7;Q99497;Q9UQN3;Q68DK2;O60260;Q7Z2E3;Q04637;P54253;O43299;Q8NF  
91;P06746;O60543;Q9Y3I1;Q96EY1;P04792;P54259;P54252;Q9UBP0;Q92610}  
Pathogen[ Q85601] interacts with 64 human

29764 partners:{P54259;Q96QK1;Q99497;Q9Y3I1;Q96CV9;Q9UHB4;Q9UQN3;O15265;Q9UBB4;Q9UBP0;P120  
36;P38935;Q96MP8;Q13148;Q00005;Q53G26;Q96LT7;Q9UKK3;Q04637;Q92610;Q14204;Q6Y7W6;Q96R  
L7;O43299;Q14203;Q92562;Q9NSK7;Q9UHD9;Q12840;P54252;P41250;P35637;Q9H2C0;Q9UNN5;P540  
98;Q12988;O60543;Q9NUW8;Q9H902;P78344;Q8N0X7;Q96JI7;Q68DK2;O60260;Q12983;P02792;P047  
92;Q7Z2E3;P06746;O00567;O00291;Q9NZJ4;Q9Y6H5;P54253;O95999;Q9NVV4;Q8NEZ2;Q16637;Q8NF  
91;Q99700;Q96EY1;Q9UJY1;P15408;P20226}  
Pathogen[ P14079] interacts with 81 human

29765 partners:{Q96QK1;Q9UHB4;O60260;Q96JI7;O14773;Q92562;O00291;Q68DK2;P35637;Q9NZJ4;Q131  
48;O95999;Q99700;Q9NSK7;O60543;Q9NP84;Q12840;O00400;P12036;Q14204;P54252;Q9Y6H5;Q6Y7  
W6;Q99497;Q92610;Q12988;Q96C11;P10909;P54253;O94905;Q9UKK3;O60477;P78344;O00567;O755  
03;Q96LT7;Q9NUW8;Q96RL7;Q16637;Q9Y287;Q9H2C0;Q9BZ23;Q9UNN5;Q00005;Q9UBB4;P41250;Q9NV

29765 V4;Q13510;O95292;Q8NEZ2;P37198;Q12983;Q9UJY1;Q156A1;Q8N0X7;Q9NSU2;P06746;O43299;P54259;O15265;P38935;Q96MP8;Q9NWW5;P54098;Q12768;Q8NF91;P04792;Q9UHD9;Q7RTP0;Q9Y3I1;Q7Z2E3;Q9H902;P15408;Q96CV9;P17405;Q96EY1;Q14203;Q04637;Q3B7T3;Q9UQN3;P10636}  
Pathogen[ P03383] interacts with 54 human partners: {Q7Z2E3;Q9NVV4;Q9Y3I1;P06746;O60543;Q68DK2;Q96JI7;O00567;Q9NZD8;Q96RL7;Q9UBB4;Q9UHB4;P12036;Q14203;Q00005;Q99700;Q8NEZ2;P04792;Q9H2C0;P15408;Q12983;P20226;O00291;P54252;Q16637;O60260;Q9UNN5;P54098;Q9UHD9;P35637;O15265;Q156A1;P78344;O43299;O95999;Q9BZ23;P54253;Q04637;Q9UKK3;Q96QK1;Q9NUW8;Q9UJY1;P38935;Q9Y6H5;Q13148;Q96CV9;P41250;P37198;Q96EY1;O60477;Q96LT7;Q9UQN3;P54259;Q53G26}

29766 Pathogen[ P03410] interacts with 83 human partners: {Q99700;Q92562;Q14204;O95292;Q96RL7;Q9Y6H5;Q9UNN5;Q8N0X7;P12036;Q99497;Q53G26;Q12983;Q9H902;Q3B7T3;Q9NWW5;Q96C11;Q9UHD9;Q9NSK7;O00400;O94905;Q9Y3I1;P35637;Q92610;Q96QK1;P04792;O43299;P06746;Q9Y287;P54252;P20226;O00291;Q9UJY1;O60260;Q9NSU2;Q12840;Q9NVV4;P15408;Q156A1;O75503;Q13148;Q7Z2E3;Q96MP8;O00567;Q13510;P38935;Q8NEZ2;Q9UNN3;Q9NZJ4;O95999;Q16637;Q96LT7;Q96CV9;Q12988;P41250;Q9NUW8;Q9BZ23;Q9UHB4;P10636;Q96JI7;Q00005;P54259;Q6Y7W6;Q12768;Q9H2C0;Q9UBY8;Q9UKK3;O60543;O15265;Q7RTP0;Q9NP84;Q04637;P54253;P02792;Q9UBB4;O60477;Q68DK2;P54098;Q96EY1;P78344;P17405;Q14203;P10909;Q8NF91}

29767 Pathogen[ P14075] interacts with 57 human partners: {Q96RL7;Q7Z2E3;P54253;Q12983;P54098;Q00005;Q156A1;O15265;Q9Y6H5;Q9H2C0;P41250;Q9NVV4;P38935;P78344;P06746;Q13510;P04792;Q53G26;Q9UJY1;P20226;O00567;Q9UHB4;Q9NZD8;Q9Y3I1;Q13148;P15408;Q96JI7;Q9UBB4;Q8NEZ2;P54252;Q16637;O00291;P12036;Q68DK2;Q9UNN5;Q9UHD9;Q9UQN3;Q04637;O60543;Q96C11;P37198;O95999;Q9BZ23;O60477;Q96CV9;P35637;P54259;Q99700;Q14203;Q9Y287;O60260;Q96LT7;Q9NUW8;Q96EY1;O43299;Q9UKK3;Q96QK1}

29768 Pathogen[ P0C206] interacts with 78 human partners: {Q9UNN5;Q68DK2;Q8N0X7;Q12988;Q8NEZ2;P38935;Q9UBB4;Q9NSU2;O00291;Q9UBP0;P20226;Q9Y287;Q92562;Q96CV9;O60477;Q96JI7;O95999;Q53G26;O00567;Q9UQN3;Q9NUW8;Q12768;O15265;Q9NZJ4;P06746;P54098;P04792;Q9BZ23;P41250;Q99497;P10636;P54252;O43299;P54259;Q6Y7W6;Q9UJY1;O95292;Q92610;P12036;Q12983;Q14204;Q8NF91;Q7Z333;Q96LT7;Q9UKK3;Q99700;O60260;P35637;O94905;P10909;P02792;Q9NVV4;Q12840;P55072;Q13148;Q156A1;Q96MP8;Q96C11;P78344;Q04637;Q96QK1;Q99798;Q9Y3I1;O60543;Q16637;Q9UHB4;Q14203;Q96EY1;Q00005;Q7Z2E3;P15408;Q9UHD9;Q9H902;Q9H2C0;Q9Y6H5;Q96RL7;Q9NSK7;P54253}

29769 Pathogen[ P03363] interacts with 60 human partners: {Q9UNN5;Q9Y6H5;Q9NVV4;O60543;Q8NF91;Q9H902;Q7Z333;Q96CV9;Q9UHB4;Q13148;Q9NZJ4;P54259;P22314;P35637;Q00005;Q96QK1;P41250;Q12988;Q14204;O00567;Q8N0X7;Q9UJY1;P54252;Q156A1;Q96JI7;Q68DK2;P54098;Q53G26;Q9Y3I1;Q9UKK3;Q7Z2E3;P06746;Q9UBB4;O60477;Q9NUW8;O15265;P54253;Q96LT7;P20226;Q96RL7;Q8NEZ2;Q9UQN3;Q16637;Q9NZD8;Q99700;P12036;Q9H2C0;P78344;P37198;Q96EY1;P15408;Q14203;P04792;P38935;O00291;Q96MP8;Q12840;Q9UHD9;O43299;Q04637}

29770 [Cluster 2707]GO:0042117+P biological\_process [name] monocyte activation [def] "The change in morphology and behavior of a monocyte resulting from exposure to a cytokine, chemokine, cellular ligand, or soluble factor." [GOC]

29771 Pathogen[ Q2Q067] interacts with 1 human partners: {P13640}

29772 Pathogen[ P0C214] interacts with 1 human partners: {P13640}

29773 Pathogen[ P03346] interacts with 1 human partners: {P13640}

29774 Pathogen[ Q85601] interacts with 1 human partners: {P13640}

29775 Pathogen[ P14079] interacts with 1 human partners: {P13640}

29776 Pathogen[ P03383] interacts with 1 human partners: {P13640}

29777 Pathogen[ P03410] interacts with 1 human partners: {P13640}

29778 Pathogen[ P14075] interacts with 1 human partners: {P13640}

29779 Pathogen[ P0C206] interacts with 1 human partners: {P13640}

29780 Pathogen[ P03363] interacts with 1 human partners: {P13640}

29781 [Cluster 2708]GO:0035249+P biological\_process [name] synaptic transmission, glutamatergic [def] "The process of communication from a neuron to another neuron across a synapse using the neurotransmitter glutamate." [GOC]

29782 Pathogen[ Q2Q067] interacts with 2 human partners: {Q92529;P54920}

29783 Pathogen[ P0C214] interacts with 2 human partners: {P54920;Q92529}

29784 Pathogen[ P03346] interacts with 3 human partners: {Q9H115;P54920;Q92529}

29785 Pathogen[ Q85601] interacts with 2 human partners: {P54920;Q92529}

29786 Pathogen[ P14079] interacts with 3 human partners: {Q9H115;Q92529;P54920}

29787 Pathogen[ P03383] interacts with 1 human partners: {P54920}

29788 Pathogen[ P03410] interacts with 3 human partners: {Q92529;Q9H115;P54920}

29789 Pathogen[ P14075] interacts with 1 human partners: {P54920}

29790 Pathogen[ P0C206] interacts with 2 human partners: {P54920;Q92529}

29791 Pathogen[ P03363] interacts with 2 human partners: {P54920;Q92529}

29792 [Cluster 2709]GO:0043486+P biological\_process [name] histone exchange [def] "The replacement, within chromatin, of resident histones or histone subunits with alternative, sometimes variant, histones or subunits." [GOC]

29793 Pathogen[ Q2Q067] interacts with 2 human partners: {O76064;P49321}

29794 Pathogen[ P0C214] interacts with 2 human partners: {P49321;O76064}

29795 Pathogen[ P03346] interacts with 2 human partners: {O76064;P49321}

29796 Pathogen[ Q85601] interacts with 2 human partners: {P49321;O76064}

29797 Pathogen[ P14079] interacts with 1 human partners: {P49321}

29798 Pathogen[ P03383] interacts with 1 human partners: {P49321}

29799 Pathogen[ P03410] interacts with 1 human partners: {P49321}

29800 Pathogen[ P14075] interacts with 1 human partners: {P49321}



29801 Pathogen[ P0C206] interacts with 2 human partners:{P49321;O76064}

29802 Pathogen[ P03363] interacts with 1 human partners:{P49321}

29803 [Cluster 2710]GO:0035039+P biological\_process [name] male pronucleus assembly [def] "The conversion at fertilization of the inactive sperm nucleus into a male pronucleus with its chromosomes processed for the first zygotic division." [GOC

29804 Pathogen[ Q2Q067] interacts with 1 human partners:{Q6ICG8}

29805 Pathogen[ P0C214] interacts with 1 human partners:{Q6ICG8}

29806 Pathogen[ P03346] interacts with 1 human partners:{Q6ICG8}

29807 Pathogen[ Q85601] interacts with 1 human partners:{Q6ICG8}

29808 Pathogen[ P14079] interacts with 1 human partners:{Q6ICG8}

29809 Pathogen[ P03383] interacts with 1 human partners:{Q6ICG8}

29810 Pathogen[ P03410] interacts with 1 human partners:{Q6ICG8}

29811 Pathogen[ P14075] interacts with 1 human partners:{Q6ICG8}

29812 Pathogen[ P0C206] interacts with 1 human partners:{Q6ICG8}

29813 Pathogen[ P03363] interacts with 1 human partners:{Q6ICG8}

29814 [Cluster 2711]GO:0007431+P biological\_process [name] salivary gland development [def] "The process whose specific outcome is the progression of the salivary gland over time, from its formation to the mature structure. Salivary glands include any of the saliva-secreting exocrine glands of the oral cavity." [GOC

29815 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NZI6}

29816 Pathogen[ P0C214] interacts with 1 human partners:{Q9NZI6}

29817 Pathogen[ P03346] interacts with 1 human partners:{Q9NZI6}

29818 Pathogen[ Q85601] interacts with 1 human partners:{Q9NZI6}

29819 Pathogen[ P14079] interacts with 1 human partners:{Q9NZI6}

29820 Pathogen[ P03383] interacts with 1 human partners:{Q9NZI6}

29821 Pathogen[ P03410] interacts with 1 human partners:{Q9NZI6}

29822 Pathogen[ P14075] interacts with 1 human partners:{Q9NZI6}

29823 Pathogen[ P0C206] interacts with 1 human partners:{Q9NZI6}

29824 Pathogen[ P03363] interacts with 1 human partners:{Q9NZI6}

29825 [Cluster 2712]GO:0045667+P biological\_process [name] regulation of osteoblast differentiation [def] "Any process that modulates the frequency, rate or extent of osteoblast differentiation." [GOC

29826 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9BXL5;P11474}

29827 Pathogen[ P0C214] interacts with 1 human partners:{P11474}

29828 Pathogen[ P03346] interacts with 3 human partners:{Q9BXL5;Q92832;P11474}

29829 Pathogen[ Q85601] interacts with 1 human partners:{P11474}

29830 Pathogen[ P14079] interacts with 3 human partners:{P11474;Q92832;Q9BXL5}

29831 Pathogen[ P03383] interacts with 2 human partners:{Q9BXL5;P11474}

29832 Pathogen[ P03410] interacts with 3 human partners:{Q92832;Q9BXL5;P11474}

29833 Pathogen[ P14075] interacts with 2 human partners:{Q9BXL5;P11474}

29834 Pathogen[ P0C206] interacts with 3 human partners:{Q9BXL5;P11474;Q92832}

29835 Pathogen[ P03363] interacts with 3 human partners:{Q9BXL5;P11474;Q92832}

29836 [Cluster 2713]GO:0031497+P biological\_process [name] chromatin assembly [def] "The assembly of DNA, histone proteins, other associated proteins, and sometimes RNA, into chromatin structure, beginning with the formation of the basic unit, the nucleosome, followed by organization of the nucleosomes into higher order structures, ultimately giving rise to a complex organization of specific domains within the nucleus." [http

29837 Pathogen[ Q2Q067] interacts with 3 human partners:{Q13111;Q09028;Q13112}

29838 Pathogen[ P0C214] interacts with 3 human partners:{Q13112;Q13111;Q09028}

29839 Pathogen[ P03346] interacts with 3 human partners:{Q09028;Q13111;Q13112}

29840 Pathogen[ Q85601] interacts with 3 human partners:{Q13112;Q09028;Q13111}

29841 Pathogen[ P14079] interacts with 3 human partners:{Q13112;Q13111;Q09028}

29842 Pathogen[ P03383] interacts with 3 human partners:{Q09028;Q13111;Q13112}

29843 Pathogen[ P03410] interacts with 3 human partners:{Q09028;Q13111;Q13112}

29844 Pathogen[ P14075] interacts with 3 human partners:{Q13111;Q09028;Q13112}

29845 Pathogen[ P0C206] interacts with 3 human partners:{Q13112;Q13111;Q09028}

29846 Pathogen[ P03363] interacts with 3 human partners:{Q13112;Q09028;Q13111}

29847 [Cluster 2714]GO:0016559+P biological\_process [name] peroxisome fission [def] "The division of a mature peroxisome within a cell to form two or more separate peroxisome compartments." [GOC

29848 Pathogen[ Q2Q067] interacts with 4 human partners:{O14734;Q9GZY8;Q96JE7;P40855}

29849 Pathogen[ P0C214] interacts with 4 human partners:{P40855;O14734;Q96JE7;Q9GZY8}

29850 Pathogen[ P03346] interacts with 5 human partners:{Q96JE7;O14734;P40855;O96011;Q9GZY8}

29851 Pathogen[ Q85601] interacts with 4 human partners:{Q96JE7;O14734;Q9GZY8;P40855}

29852 Pathogen[ P14079] interacts with 7 human partners:{O75192;Q96HA9;P40855;Q96JE7;O96011;O14734;Q9GZY8}

29853 Pathogen[ P03383] interacts with 5 human partners:{Q96HA9;O14734;Q96JE7;Q9GZY8;P40855}

29854 Pathogen[ P03410] interacts with 7 human partners:{O75192;Q9GZY8;O96011;P40855;O14734;Q96JE7;Q96HA9}

29855 Pathogen[ P14075] interacts with 6 human partners:{Q96JE7;P40855;O14734;Q9GZY8;Q96HA9;O75192}

29856 Pathogen[ P0C206] interacts with 7 human partners:{O75192;Q96HA9;P40855;Q96JE7;O14734;O96011;Q9GZY8}

29857 Pathogen[ P03363] interacts with 3 human partners:{O14734;P40855;Q9GZY8}

29858 [Cluster 2715]GO:0006287+P biological\_process [name] base-excision repair, gap-filling  
[def] "Repair of the damaged strand by the combined action of an apurinic endonuclease  
that degrades a few bases on the damaged strand and a polymerase that synthesizes a  
'patch' in the 5' to 3' direction, using the undamaged strand as a template." [ISBN

29859 Pathogen[ Q2Q067] interacts with 1 human partners:{P54098}  
29860 Pathogen[ P0C214] interacts with 1 human partners:{P54098}  
29861 Pathogen[ P03346] interacts with 1 human partners:{P54098}  
29862 Pathogen[ Q85601] interacts with 1 human partners:{P54098}  
29863 Pathogen[ P14079] interacts with 2 human partners:{Q5QGS0;P54098}  
29864 Pathogen[ P03383] interacts with 1 human partners:{P54098}  
29865 Pathogen[ P03410] interacts with 2 human partners:{Q5QGS0;P54098}  
29866 Pathogen[ P14075] interacts with 1 human partners:{P54098}  
29867 Pathogen[ P0C206] interacts with 1 human partners:{P54098}  
29868 Pathogen[ P03363] interacts with 1 human partners:{P54098}

29869 [Cluster 2716]GO:0002315+P biological\_process [name] marginal zone B cell  
differentiation [def] "The process in which a B cell in the spleen acquires the  
specialized features of a marginal zone B cell. Marginal zone B cells are localized in a  
distinct anatomical region of the spleen that represents the major antigen-filtering and  
scavenging area (by specialized macrophages resident there). It appears that they are  
preselected to express a BCR repertoire similar to B-1 B cells, biased toward bacterial  
cell wall constituents and senescent self-components (such as oxidized LDL)." [GOC

29870 Pathogen[ Q2Q067] interacts with 1 human partners:{P20749}  
29871 Pathogen[ P0C214] interacts with 1 human partners:{P20749}  
29872 Pathogen[ P03346] interacts with 1 human partners:{P20749}  
29873 Pathogen[ Q85601] interacts with 1 human partners:{P20749}  
29874 Pathogen[ P14079] interacts with 1 human partners:{P20749}  
29875 Pathogen[ P03383] interacts with 1 human partners:{P20749}  
29876 Pathogen[ P03410] interacts with 1 human partners:{P20749}  
29877 Pathogen[ P14075] interacts with 1 human partners:{P20749}  
29878 Pathogen[ P0C206] interacts with 1 human partners:{P20749}  
29879 Pathogen[ P03363] interacts with 1 human partners:{P20749}

29880 [Cluster 2717]GO:0045947+P biological\_process [name] negative regulation of  
translational initiation [def] "Any process that stops, prevents, or reduces the  
frequency, rate or extent of translational initiation." [GOC

29881 Pathogen[ Q2Q067] interacts with 9 human  
partners:{Q9ULR5;Q13541;Q9UI10;Q06787;P60228;O60516;Q9UKV8;Q9BPZ3;Q13542}  
29882 Pathogen[ P0C214] interacts with 9 human  
partners:{P60228;Q9UI10;Q06787;O60516;Q13542;Q9BPZ3;Q9UKV8;Q9ULR5;Q13541}  
29883 Pathogen[ P03346] interacts with 10 human  
partners:{Q9ULR5;Q13542;Q06787;Q9BPZ3;Q13541;Q9BWF3;P60228;Q9UKV8;O60516;Q9UI10}  
29884 Pathogen[ Q85601] interacts with 9 human  
partners:{Q06787;Q9ULR5;O60516;Q13541;P60228;Q9BPZ3;Q9UKV8;Q9UI10;Q13542}  
29885 Pathogen[ P14079] interacts with 8 human  
partners:{Q9UKV8;Q9UI10;Q13541;Q9BPZ3;Q13542;Q9ULR5;Q06787;O60516}  
29886 Pathogen[ P03383] interacts with 9 human  
partners:{P60228;Q9UI10;Q06787;Q9ULR5;Q13542;Q13541;Q9UKV8;O60516;Q9BPZ3}  
29887 Pathogen[ P03410] interacts with 9 human  
partners:{Q9UKV8;Q9BPZ3;Q9ULR5;Q13541;Q13542;Q06787;O60516;P60228;Q9UI10}  
29888 Pathogen[ P14075] interacts with 9 human  
partners:{Q13542;O60516;Q9UI10;P60228;Q06787;Q9UKV8;Q9BPZ3;Q9ULR5;Q13541}  
29889 Pathogen[ P0C206] interacts with 9 human  
partners:{Q13541;Q9ULR5;Q06787;Q9UKV8;P60228;Q13542;Q9BPZ3;Q9UI10;O60516}  
29890 Pathogen[ P03363] interacts with 10 human  
partners:{Q06787;Q9ULR5;Q9UI10;Q9UKV8;Q9BWF3;Q9BPZ3;P60228;Q13541;O60516;Q13542}

29891 [Cluster 2718]GO:0032703+P biological\_process [name] negative regulation of  
interleukin-2 production [def] "Any process that stops, prevents, or reduces the  
frequency, rate, or extent of interleukin-2 production." [GOC

29892 Pathogen[ Q2Q067] interacts with 3 human partners:{P04156;Q92993;Q8WUI4}  
29893 Pathogen[ P0C214] interacts with 3 human partners:{Q92993;P04156;Q8WUI4}  
29894 Pathogen[ P03346] interacts with 3 human partners:{Q8WUI4;P04156;Q92993}  
29895 Pathogen[ Q85601] interacts with 3 human partners:{P04156;Q92993;Q8WUI4}  
29896 Pathogen[ P14079] interacts with 3 human partners:{P04156;Q8WUI4;Q92993}  
29897 Pathogen[ P03383] interacts with 3 human partners:{P04156;Q92993;Q8WUI4}  
29898 Pathogen[ P03410] interacts with 3 human partners:{Q8WUI4;P04156;Q92993}  
29899 Pathogen[ P14075] interacts with 3 human partners:{P04156;Q92993;Q8WUI4}  
29900 Pathogen[ P0C206] interacts with 3 human partners:{P04156;Q92993;Q8WUI4}  
29901 Pathogen[ P03363] interacts with 3 human partners:{P04156;Q8WUI4;Q92993}

29902 [Cluster 2719]GO:0006527+P biological\_process [name] arginine catabolic process  
[def] "The chemical reactions and pathways resulting in the breakdown of arginine,  
2-amino-5-(carbamimidamido)pentanoic acid." [CHEBI

29903 Pathogen[ Q2Q067] interacts with 2 human partners:{P29474;O95865}  
29904 Pathogen[ P0C214] interacts with 3 human partners:{P29474;O95865;P04424}  
29905 Pathogen[ P03346] interacts with 2 human partners:{P29474;O95865}  
29906 Pathogen[ Q85601] interacts with 2 human partners:{P29474;O95865}  
29907 Pathogen[ P14079] interacts with 3 human partners:{P16930;P04424;O95865}  
29908 Pathogen[ P03383] interacts with 2 human partners:{P29474;O95865}

29909 Pathogen[ P03410] interacts with 4 human partners:{P04424;O95865;P29474;P16930}

29910 Pathogen[ P14075] interacts with 2 human partners:{P29474;O95865}

29911 Pathogen[ P0C206] interacts with 2 human partners:{O95865;P29474}

29912 Pathogen[ P03363] interacts with 2 human partners:{P29474;O95865}

29913 [Cluster 2720]GO:0044154+P biological\_process [name] histone H3-K14 acetylation [def] "The modification of histone H3 by the addition of an acetyl group to a lysine residue at position 14 of the histone." [GOC

29914 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9HAF1;Q92830;O60885}

29915 Pathogen[ P0C214] interacts with 3 human partners:{Q9HAF1;O60885;Q92830}

29916 Pathogen[ P03346] interacts with 3 human partners:{Q92830;O60885;Q9HAF1}

29917 Pathogen[ Q85601] interacts with 3 human partners:{Q9HAF1;Q92830;O60885}

29918 Pathogen[ P14079] interacts with 3 human partners:{Q92830;Q9HAF1;O60885}

29919 Pathogen[ P03383] interacts with 3 human partners:{Q92830;O60885;Q9HAF1}

29920 Pathogen[ P03410] interacts with 2 human partners:{Q92830;O60885}

29921 Pathogen[ P14075] interacts with 3 human partners:{Q9HAF1;O60885;Q92830}

29922 Pathogen[ P0C206] interacts with 3 human partners:{Q92830;O60885;Q9HAF1}

29923 Pathogen[ P03363] interacts with 3 human partners:{Q9HAF1;O60885;Q92830}

29924 [Cluster 2721]GO:0000460+P biological\_process [name] maturation of 5.8S rRNA [def] "Any process involved in the maturation of a precursor 5.8S ribosomal RNA (rRNA) molecule into a mature 5.8S rRNA molecule." [GOC

29925 Pathogen[ Q2Q067] interacts with 3 human partners:{Q99547;Q9NPD3;Q13901}

29926 Pathogen[ P0C214] interacts with 3 human partners:{Q13901;Q99547;Q9NPD3}

29927 Pathogen[ P03346] interacts with 4 human partners:{P42285;Q99547;Q9NPD3;Q13901}

29928 Pathogen[ Q85601] interacts with 3 human partners:{Q9NPD3;Q99547;Q13901}

29929 Pathogen[ P14079] interacts with 3 human partners:{Q13901;Q9NPD3;Q99547}

29930 Pathogen[ P03383] interacts with 3 human partners:{Q99547;Q9NPD3;Q13901}

29931 Pathogen[ P03410] interacts with 3 human partners:{Q99547;Q13901;Q9NPD3}

29932 Pathogen[ P14075] interacts with 3 human partners:{Q9NPD3;Q13901;Q99547}

29933 Pathogen[ P0C206] interacts with 3 human partners:{Q9NPD3;Q99547;Q13901}

29934 Pathogen[ P03363] interacts with 4 human partners:{Q99547;Q13901;Q9NPD3;P42285}

29935 [Cluster 2722]GO:0031571+P biological\_process [name]mitotic cell cycle G1/S transition DNA damage checkpoint [def] "A mitotic G1/S transition checkpoint that blocks entry into S phase in response to DNA damage." [GOC

29936 Pathogen[ Q2Q067] interacts with 4 human partners:{P24385;O15350;P24941;Q71UM5}

29937 Pathogen[ P0C214] interacts with 5 human partners:{O15350;Q71UM5;P24385;P24941;Q5XUX0}

29938 Pathogen[ P03346] interacts with 6 human partners:{P24385;Q6PCD5;P24941;Q71UM5;O15350;Q5XUX0}

29939 Pathogen[ Q85601] interacts with 5 human partners:{P24385;Q6PCD5;Q71UM5;O15350;P24941}

29940 Pathogen[ P14079] interacts with 3 human partners:{Q5XUX0;O15350;Q71UM5}

29941 Pathogen[ P03383] interacts with 5 human partners:{P24385;Q71UM5;P24941;O15350;Q5XUX0}

29942 Pathogen[ P03410] interacts with 5 human partners:{Q5XUX0;P24385;P24941;O15350;Q71UM5}

29943 Pathogen[ P14075] interacts with 5 human partners:{P24941;O15350;P24385;Q5XUX0;Q71UM5}

29944 Pathogen[ P0C206] interacts with 6 human partners:{Q6PCD5;Q71UM5;O15350;Q5XUX0;P24941;P24385}

29945 Pathogen[ P03363] interacts with 5 human partners:{P24941;Q6PCD5;P24385;Q71UM5;Q5XUX0}

29946 [Cluster 2723]GO:0048339+P biological\_process [name] paraxial mesoderm development [def] "The process whose specific outcome is the progression of the paraxial mesoderm over time, from its formation to the mature structure. The paraxial mesoderm is the mesoderm located bilaterally adjacent to the notochord and neural tube." [GOC

29947 Pathogen[ Q2Q067] interacts with 3 human partners:{P46937;Q15562;Q8WUM0}

29948 Pathogen[ P0C214] interacts with 3 human partners:{P46937;Q15562;Q8WUM0}

29949 Pathogen[ P03346] interacts with 3 human partners:{Q15562;P46937;Q8WUM0}

29950 Pathogen[ Q85601] interacts with 3 human partners:{Q8WUM0;Q15562;P46937}

29951 Pathogen[ P14079] interacts with 3 human partners:{P46937;Q8WUM0;Q15562}

29952 Pathogen[ P03383] interacts with 3 human partners:{Q8WUM0;Q15562;P46937}

29953 Pathogen[ P03410] interacts with 3 human partners:{P46937;Q8WUM0;Q15562}

29954 Pathogen[ P14075] interacts with 3 human partners:{Q15562;P46937;Q8WUM0}

29955 Pathogen[ P0C206] interacts with 3 human partners:{P46937;Q8WUM0;Q15562}

29956 Pathogen[ P03363] interacts with 3 human partners:{Q15562;Q8WUM0;P46937}

29957 [Cluster 2724]GO:0030150+P biological\_process [name] protein import into mitochondrial matrix [def] "The import of proteins across the outer and inner mitochondrial membranes into the matrix. Unfolded proteins enter the mitochondrial matrix with a chaperone protein\_ the information required to target the precursor protein from the cytosol to the mitochondrial matrix is contained within its N-terminal matrix-targeting sequence. Translocation of precursors to the matrix occurs at the rare sites where the outer and inner membranes are close together." [ISBN

29958 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9HAV7;Q96BW9}

29959 Pathogen[ P0C214] interacts with 2 human partners:{Q96BW9;Q9HAV7}

29960 Pathogen[ P03346] interacts with 2 human partners:{Q9HAV7;Q96BW9}

29961 Pathogen[ Q85601] interacts with 2 human partners:{Q96BW9;Q9HAV7}

29962 Pathogen[ P14079] interacts with 2 human partners:{Q96BW9;Q9HAV7}

29963 Pathogen[ P03383] interacts with 2 human partners:{Q96BW9;Q9HAV7}

29964 Pathogen[ P03410] interacts with 2 human partners:{Q96BW9;Q9HAV7}

29965 Pathogen[ P14075] interacts with 2 human partners:{Q9HAV7;Q96BW9}

29966 Pathogen[ P0C206] interacts with 2 human partners:{Q9HAV7;Q96BW9}

29967 Pathogen[ P03363] interacts with 1 human partners:{Q96BW9}

29968 [Cluster 2725]GO:0048642+P biological\_process [name] negative regulation of skeletal muscle tissue development [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of skeletal muscle tissue development." [GOC

29969 Pathogen[ Q2Q067] interacts with 2 human partners:{Q99576;P16989}

29970 Pathogen[ P0C214] interacts with 2 human partners:{P16989;Q99576}

29971 Pathogen[ P03346] interacts with 3 human partners:{P16989;Q99576;O75604}

29972 Pathogen[ Q85601] interacts with 2 human partners:{Q99576;P16989}

29973 Pathogen[ P14079] interacts with 2 human partners:{Q99576;P16989}

29974 Pathogen[ P03383] interacts with 2 human partners:{P16989;Q99576}

29975 Pathogen[ P03410] interacts with 2 human partners:{P16989;Q99576}

29976 Pathogen[ P14075] interacts with 2 human partners:{P16989;Q99576}

29977 Pathogen[ P0C206] interacts with 3 human partners:{O75604;P16989;Q99576}

29978 Pathogen[ P03363] interacts with 3 human partners:{Q99576;O75604;P16989}

29979 [Cluster 2726]GO:0045347+P biological\_process [name] negative regulation of MHC class II biosynthetic process [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the chemical reactions and pathways resulting in the formation of MHC class II." [GOC

29980 Pathogen[ Q2Q067] interacts with 3 human partners:{Q12986;Q92769;P17947}

29981 Pathogen[ P0C214] interacts with 3 human partners:{P17947;Q12986;Q92769}

29982 Pathogen[ P03346] interacts with 3 human partners:{Q12986;Q92769;P17947}

29983 Pathogen[ Q85601] interacts with 3 human partners:{Q92769;P17947;Q12986}

29984 Pathogen[ P14079] interacts with 2 human partners:{Q12986;Q92769}

29985 Pathogen[ P03383] interacts with 3 human partners:{Q12986;Q92769;P17947}

29986 Pathogen[ P03410] interacts with 3 human partners:{P17947;Q12986;Q92769}

29987 Pathogen[ P14075] interacts with 3 human partners:{Q12986;Q92769;P17947}

29988 Pathogen[ P0C206] interacts with 3 human partners:{Q92769;Q12986;P17947}

29989 Pathogen[ P03363] interacts with 2 human partners:{P17947;Q12986}

29990 [Cluster 2727]GO:0033169+P biological\_process [name] histone H3-K9 demethylation [def] "The modification of histone H3 by the removal of a methyl group from lysine at position 9 of the histone." [GOC

29991 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9UPP1;O75151;Q9ULV5}

29992 Pathogen[ P0C214] interacts with 3 human partners:{O75151;Q9ULV5;Q9UPP1}

29993 Pathogen[ P03346] interacts with 3 human partners:{O75151;Q9UPP1;Q9ULV5}

29994 Pathogen[ Q85601] interacts with 3 human partners:{Q9ULV5;O75151;Q9UPP1}

29995 Pathogen[ P14079] interacts with 3 human partners:{O75151;Q9UPP1;Q9ULV5}

29996 Pathogen[ P03383] interacts with 3 human partners:{O75151;Q9ULV5;Q9UPP1}

29997 Pathogen[ P03410] interacts with 3 human partners:{Q9UPP1;O75151;Q9ULV5}

29998 Pathogen[ P14075] interacts with 3 human partners:{Q9UPP1;Q9ULV5;O75151}

29999 Pathogen[ P0C206] interacts with 3 human partners:{Q9UPP1;O75151;Q9ULV5}

30000 Pathogen[ P03363] interacts with 1 human partners:{Q9ULV5}

30001 [Cluster 2728]GO:0019216+P biological\_process [name] regulation of lipid metabolic process [def] "Any process that modulates the frequency, rate or extent of the chemical reactions and pathways involving lipids." [GOC

30002 Pathogen[ Q2Q067] interacts with 1 human partners:{O60869}

30003 Pathogen[ P0C214] interacts with 2 human partners:{P01011;O60869}

30004 Pathogen[ P03346] interacts with 1 human partners:{O60869}

30005 Pathogen[ Q85601] interacts with 2 human partners:{P01011;O60869}

30006 Pathogen[ P14079] interacts with 1 human partners:{O60869}

30007 Pathogen[ P03383] interacts with 1 human partners:{O60869}

30008 Pathogen[ P03410] interacts with 2 human partners:{O60869;P01011}

30009 Pathogen[ P14075] interacts with 1 human partners:{O60869}

30010 Pathogen[ P0C206] interacts with 2 human partners:{O60869;P01011}

30011 Pathogen[ P03363] interacts with 1 human partners:{O60869}

30012 [Cluster 2729]GO:0042407+P biological\_process [name] cristae formation [def] "The assembly of cristae, the inwards folds of the inner mitochondrial membrane." [GOC

30013 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BRQ6}

30014 Pathogen[ P0C214] interacts with 2 human partners:{O95202;Q9BRQ6}

30015 Pathogen[ P03346] interacts with 2 human partners:{Q9BRQ6;O95202}

30016 Pathogen[ Q85601] interacts with 1 human partners:{Q9BRQ6}

30017 Pathogen[ P14079] interacts with 2 human partners:{Q9BRQ6;O95202}

30018 Pathogen[ P03383] interacts with 1 human partners:{Q9BRQ6}

30019 Pathogen[ P03410] interacts with 3 human partners:{Q9BRQ6;O95202;Q16635}

30020 Pathogen[ P14075] interacts with 1 human partners:{Q9BRQ6}

30021 Pathogen[ P0C206] interacts with 2 human partners:{O95202;Q9BRQ6}

30022 Pathogen[ P03363] interacts with 1 human partners:{Q9BRQ6}

30023 [Cluster 2730]GO:0046580+P biological\_process [name] negative regulation of Ras protein signal transduction [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of Ras protein signal transduction." [GOC

30024 Pathogen[ Q2Q067] interacts with 3 human partners:{P62714;P09467;P37198}

30025 Pathogen[ P0C214] interacts with 3 human partners:{P62714;P09467;P37198}

30026 Pathogen[ P03346] interacts with 3 human partners:{P62714;P09467;P37198}  
30027 Pathogen[ Q85601] interacts with 2 human partners:{P62714;P09467}  
30028 Pathogen[ P14079] interacts with 3 human partners:{O43597;P37198;P09467}  
30029 Pathogen[ P03383] interacts with 3 human partners:{P62714;P09467;P37198}  
30030 Pathogen[ P03410] interacts with 4 human partners:{P62714;O43597;P09467;Q15283}  
30031 Pathogen[ P14075] interacts with 3 human partners:{P37198;P62714;P09467}  
30032 Pathogen[ P0C206] interacts with 3 human partners:{P09467;P62714;O43597}  
30033 Pathogen[ P03363] interacts with 2 human partners:{P62714;P37198}  
30034 [Cluster 2731]GO:2000382+P biological\_process [name] positive regulation of mesoderm development [def] "Any process that activates or increases the frequency, rate or extent of mesoderm development." [GOC  
30035 Pathogen[ Q2Q067] interacts with 1 human partners:{O00321}  
30036 Pathogen[ P0C214] interacts with 1 human partners:{O00321}  
30037 Pathogen[ P03346] interacts with 1 human partners:{O00321}  
30038 Pathogen[ Q85601] interacts with 1 human partners:{O00321}  
30039 Pathogen[ P14079] interacts with 1 human partners:{O00321}  
30040 Pathogen[ P03383] interacts with 1 human partners:{O00321}  
30041 Pathogen[ P03410] interacts with 1 human partners:{O00321}  
30042 Pathogen[ P14075] interacts with 1 human partners:{O00321}  
30043 Pathogen[ P0C206] interacts with 1 human partners:{O00321}  
30044 Pathogen[ P03363] interacts with 1 human partners:{O00321}  
30045 [Cluster 2732]GO:0034130+P biological\_process [name] toll-like receptor 1 signaling pathway [def] "Any series of molecular signals generated as a consequence of binding to toll-like receptor 1." [GOC  
30046 Pathogen[ Q2Q067] interacts with 29 human partners:{P01100;Q15653;Q04206;Q9NYJ8;Q8N5C8;O75582;Q9Y6K9;Q13233;P61088;Q96FA3;P19419;P19838;P15336;P25963;P0CG47;O14920;P45984;Q00653;P0CG48;O43318;P62987;Q13404;Q9HAT8;O15111;Q15759;Q16829;Q02078;Q15750;P62979}  
30047 Pathogen[ P0C214] interacts with 32 human partners:{Q00653;O15111;Q9Y6K9;P19838;P15336;P01100;Q96FA3;P19419;Q04206;Q9HAT8;Q13404;Q15653;O43318;Q02078;Q8N5C8;Q13233;P0CG48;P25963;Q16829;O75582;P62987;Q15750;P05412;Q15759;P0CG47;P45984;P16220;P62979;O14920;Q9NYJ8;P61088;P18846}  
30048 Pathogen[ P03346] interacts with 33 human partners:{Q9Y6K9;P05412;P45984;Q02078;O15111;P16220;P15336;P62987;P25963;Q15653;P19419;P0CG48;Q04206;Q96FA3;Q13404;Q8N5C8;P61088;Q9NYJ8;Q9HAT8;Q13233;O75582;Q15750;Q16829;P62979;Q15759;P0CG47;P19838;P15336;O43318;P01100;P18846;Q00653}  
30049 Pathogen[ Q85601] interacts with 32 human partners:{Q02078;Q15750;Q9NYJ8;O15111;P19419;Q9HAT8;Q16829;P18846;P0CG48;Q15653;Q96FA3;Q13404;Q8N5C8;P01100;Q9Y6K9;P16220;O14920;Q04206;P05412;O75582;P62979;Q15759;P0CG47;P45984;Q13233;P62987;Q00653;P15336;O43318;P61088;P19838;P25963}  
30050 Pathogen[ P14079] interacts with 31 human partners:{Q9HAT8;Q8N5C8;Q02078;P0CG48;Q06413;O43187;P53779;P52564;O75582;Q16829;Q13404;Q15750;P62979;P62987;Q96FA3;P45984;P45983;Q16644;Q15759;Q9Y6K9;P45985;P15336;Q9Y6Y9;Q13164;P05412;P0CG47;Q9Y239;P01100;Q99836;P19419;Q15653}  
30051 Pathogen[ P03383] interacts with 31 human partners:{O75582;P16220;Q9Y6K9;P62987;Q13233;Q00653;O14920;O15111;P19419;P18846;Q15653;O43318;Q8N5C8;P61088;Q13404;Q15759;P25963;P01100;P62979;P0CG47;Q96FA3;Q04206;P45984;P0CG48;P15336;Q9NYJ8;P19838;Q02078;Q9HAT8;Q15750;P05412}  
30052 Pathogen[ P03410] interacts with 36 human partners:{Q04206;P19838;P0CG48;O14920;Q9Y239;P19419;O15111;Q15750;Q96FA3;O75582;O43187;Q15653;P61088;Q13233;P62979;P01100;P18846;O43318;Q16829;P45985;Q9NYJ8;Q8N5C8;P16220;Q9HAT8;P05412;Q9Y6Y9;P45984;P62987;P53779;Q02078;Q00653;Q13404;Q9Y6K9;P25963;P15336;P0CG47}  
30053 Pathogen[ P14075] interacts with 31 human partners:{O15111;Q04206;Q15750;P05412;Q15759;O75582;P61088;P19419;P15336;Q15653;P25963;Q8N5C8;O14920;P0CG48;P62979;O43318;Q9HAT8;Q96FA3;P62987;Q02078;P01100;P0CG47;Q13404;P19838;Q00653;P16220;Q9Y6K9;Q13233;P18846;P45984;Q9NYJ8}  
30054 Pathogen[ P0C206] interacts with 33 human partners:{P0CG48;O14920;Q9Y6K9;Q02078;P16220;Q8N5C8;O75582;P45984;P05412;P25963;P19419;Q9HAT8;O43318;P15336;Q15653;P18846;Q16829;Q13233;P61088;P19838;P01100;Q04206;O15111;P62979;Q9NYJ8;P45985;P0CG47;Q96FA3;Q00653;Q15750;P62987;Q13404;Q15759}  
30055 Pathogen[ P03363] interacts with 26 human partners:{O14920;Q04206;P25963;O15111;Q9NYJ8;P16220;Q9Y6K9;P19419;O43318;Q15750;P61088;P15336;Q15653;Q16829;Q00653;Q96FA3;P18846;P62987;P19838;P05412;Q13404;Q9HAT8;Q8N5C8;Q13233;P01100;Q02078}  
30056 [Cluster 2733]GO:0010575+P biological\_process [name] positive regulation vascular endothelial growth factor production [def] "Any process that increases or activates the frequency, rate, or extent of production of vascular endothelial growth factor." [GOC  
30057 Pathogen[ Q2Q067] interacts with 1 human partners:{P27540}  
30058 Pathogen[ P0C214] interacts with 1 human partners:{P27540}  
30059 Pathogen[ P03346] interacts with 1 human partners:{P27540}  
30060 Pathogen[ Q85601] interacts with 1 human partners:{P27540}  
30061 Pathogen[ P14079] interacts with 1 human partners:{P27540}  
30062 Pathogen[ P03383] interacts with 1 human partners:{P27540}  
30063 Pathogen[ P03410] interacts with 1 human partners:{P27540}

30064 Pathogen[ P14075] interacts with 1 human partners:{P27540}  
30065 Pathogen[ POC206] interacts with 1 human partners:{P27540}  
30066 Pathogen[ P03363] interacts with 1 human partners:{P27540}  
30067 [Cluster 2734]GO:0006383+P biological\_process [name] transcription from RNA polymerase III promoter [def] "The synthesis of RNA from a DNA template by RNA polymerase III, originating at an RNAP III promoter." [GOC  
30068 Pathogen[ Q2Q067] interacts with 34 human partners:{P52434;Q9HAW0;P20226;Q13487;Q92664;Q16533;Q9Y5Q8;P10155;P19388;Q5SXM2;A6H8Y1;Q9UKN8;P61218;O75971;Q9BUI4;Q92994;P52747;Q9Y6Y0;Q14585;P14859;Q9NVU0;P62875;O15318;Q12789;P53803;Q9Y535;Q9Y250;P05423;O14802;Q9H1D9;Q9Y2S0;O15160;Q92966;Q969F1}  
30069 Pathogen[ POC214] interacts with 35 human partners:{A6H8Y1;Q9Y5Q8;Q92664;Q9BUI4;P53803;Q9NVU0;Q9UKN8;Q9H1D9;Q16533;Q9Y2S0;P61218;Q5SXM2;P05423;Q12789;Q9Y250;Q969F1;Q92966;Q13487;Q9Y6Y0;Q92994;O15318;Q9NW08;P62875;P20226;P52747;O15160;Q9Y535;Q14585;P52434;O75971;Q9HAW0;P19388;P14859;P10155;O14802}  
30070 Pathogen[ P03346] interacts with 36 human partners:{Q9NVU0;Q13487;P52434;Q9Y5Q8;P52747;P05423;O75971;P14859;P53803;P61218;P20226;O15318;Q9UKN8;P19388;P10155;Q9Y6Y0;Q9H1D9;Q8WUA4;O15160;Q9Y250;Q14585;Q9Y535;Q9Y5Q9;Q16533;Q9BUI4;Q92994;Q969F1;Q12789;Q5SXM2;Q92966;Q92664;O14802;A6H8Y1;Q9Y2S0;P62875;Q9HAW0}  
30071 Pathogen[ Q85601] interacts with 36 human partners:{Q9Y250;Q92664;O75971;Q13487;Q9H1D9;Q92994;Q9Y535;Q9BUI4;Q9Y2Y1;P10155;P14859;P53803;Q9Y2S0;P61218;Q9HAW0;P05423;Q9NVU0;Q9UKN8;Q5SXM2;P19388;Q9Y5Q8;Q9Y6Y0;Q14585;A6H8Y1;Q9NW08;Q12789;Q92966;Q16533;P52434;O15160;O14802;P52747;O15318;P62875;P20226;Q969F1}  
30072 Pathogen[ P14079] interacts with 38 human partners:{Q9Y2S0;Q92664;Q14585;Q5SXM2;P62875;P10155;Q92994;P14859;P52747;Q9UKN8;Q9NW08;Q92966;P52434;P61218;Q9Y250;Q13487;Q9Y5Q9;P53803;A6H8Y1;P19388;Q9BUI4;P05423;Q969F1;O15160;Q9Y5Q8;Q9Y6Y0;Q9HAW0;Q9Y2Y1;Q16533;Q12789;Q9BT43;Q9NVU0;O14802;O15318;Q9H1D9;O75971;Q8WUA4;Q9Y535}  
30073 Pathogen[ P03383] interacts with 29 human partners:{P53803;Q9UKN8;Q13487;Q9HAW0;P14859;Q969F1;Q9Y535;Q92966;P52434;P61218;Q9Y5Q8;Q9H1D9;P10155;Q9NVU0;P20226;Q16533;Q92994;P52747;Q9Y6Y0;O75971;A6H8Y1;P62875;O15318;P19388;Q12789;Q5SXM2;Q14585;O14802;Q9Y250}  
30074 Pathogen[ P03410] interacts with 39 human partners:{Q9HAW0;Q9Y5Q9;Q9BT43;Q92994;P14859;Q9Y6Y0;Q969F1;P20226;Q9Y5Q8;A6H8Y1;O15318;Q9Y535;Q9NW08;P53803;Q9Y2S0;P62875;P05423;Q12789;Q14585;P61218;Q9Y2Y1;O15160;Q92664;P52434;Q92966;Q9H1D9;Q9Y250;Q13487;Q9NVU0;Q8WUA4;Q9UKN8;Q5SXM2;P19388;O75971;O14802;Q16533;Q9BUI4;P52747;P10155}  
30075 Pathogen[ P14075] interacts with 29 human partners:{Q9NVU0;Q969F1;Q12789;Q16533;Q92966;P14859;P52747;O75971;P19388;P61218;Q92994;Q9Y250;Q5SXM2;Q9HAW0;P20226;Q14585;A6H8Y1;P10155;Q9Y6Y0;Q9H1D9;Q9Y535;Q13487;Q9Y5Q8;Q9UKN8;P62875;P52434;O14802;O15318;P53803}  
30076 Pathogen[ POC206] interacts with 39 human partners:{Q969F1;P62875;Q9HAW0;Q9BT43;P20226;Q8WUA4;Q92664;A6H8Y1;P19388;P61218;Q9NW08;Q9BUI4;O15318;Q13487;Q9Y5Q9;Q9Y535;Q9Y5Q8;O75971;Q9Y6Y0;Q5SXM2;P05423;Q9NVU0;P53803;Q9Y2S0;Q9UKN8;P10155;Q16533;Q92966;Q92994;P52747;Q14585;O14802;Q9Y2Y1;Q9H1D9;Q9Y250;Q12789;P52434;O15160;P14859}  
30077 Pathogen[ P03363] interacts with 31 human partners:{Q9Y6Y0;Q969F1;Q9Y535;Q8WUA4;Q13487;P19388;Q9NVU0;P61218;Q9H1D9;Q9Y5Q9;A6H8Y1;P10155;P14859;Q9Y250;P05423;O15318;Q92664;Q92966;O75971;Q16533;Q14585;P20226;Q5SXM2;Q12789;Q9UKN8;P53803;P52434;Q9Y5Q8;Q9Y2S0;O15160;P52747}  
30078 [Cluster 2735]GO:0050727+P biological\_process [name] regulation of inflammatory response [def] "Any process that modulates the frequency, rate or extent of the inflammatory response, the immediate defensive reaction (by vertebrate tissue) to infection or injury caused by chemical or physical agents." [GOC  
30079 Pathogen[ Q2Q067] interacts with 8 human partners:{P41182;Q99497;Q04206;Q9Y2G9;Q8TBK2;P60900;Q9C000;Q13490}  
30080 Pathogen[ POC214] interacts with 9 human partners:{Q9Y2G9;Q13490;Q04206;Q99497;P98170;P41182;P60900;Q8TBK2;Q9C000}  
30081 Pathogen[ P03346] interacts with 10 human partners:{Q13489;Q8TBK2;Q04206;P98170;Q9Y2G9;P60900;Q99497;P41182;Q13490;Q9C000}  
30082 Pathogen[ Q85601] interacts with 8 human partners:{P60900;Q99497;Q13490;Q8TBK2;P98170;Q04206;P41182;Q9Y2G9}  
30083 Pathogen[ P14079] interacts with 8 human partners:{Q9C000;Q99497;P41182;P60900;Q8TBK2;Q99836;Q9Y2G9;Q13490}  
30084 Pathogen[ P03383] interacts with 5 human partners:{P60900;Q13490;Q04206;Q9Y2G9;Q8TBK2}  
30085 Pathogen[ P03410] interacts with 8 human partners:{Q04206;Q99497;Q9Y2G9;P60900;Q13490;Q9C000;Q8TBK2;P41182}  
30086 Pathogen[ P14075] interacts with 5 human partners:{Q04206;P60900;Q8TBK2;Q13490;Q9Y2G9}  
30087 Pathogen[ POC206] interacts with 10 human partners:{Q9C000;P41182;P60900;P98170;Q99497;Q04206;Q13489;Q9Y2G9;Q8TBK2;Q13490}  
30088 Pathogen[ P03363] interacts with 7 human partners:{Q13490;Q04206;Q9C000;Q8TBK2;Q9Y2G9;Q13489;P98170}

30089 [Cluster 2736]GO:0034121+P biological\_process [name] regulation of toll-like receptor signaling pathway [def] "Any process that modulates the frequency, rate, or extent of toll-like receptor signaling pathway." [GOC

30090 Pathogen[ Q2Q067] interacts with 2 human partners:{Q99684;Q13490}

30091 Pathogen[ P0C214] interacts with 2 human partners:{Q13490;Q99684}

30092 Pathogen[ P03346] interacts with 3 human partners:{Q13489;Q99684;Q13490}

30093 Pathogen[ Q85601] interacts with 2 human partners:{Q13490;Q99684}

30094 Pathogen[ P14079] interacts with 2 human partners:{Q99684;Q13490}

30095 Pathogen[ P03383] interacts with 2 human partners:{Q13490;Q99684}

30096 Pathogen[ P03410] interacts with 2 human partners:{Q13490;Q99684}

30097 Pathogen[ P14075] interacts with 2 human partners:{Q13490;Q99684}

30098 Pathogen[ P0C206] interacts with 3 human partners:{Q13489;Q99684;Q13490}

30099 Pathogen[ P03363] interacts with 3 human partners:{Q99684;Q13490;Q13489}

30100 [Cluster 2737]GO:0030177+P biological\_process [name] positive regulation of Wnt receptor signaling pathway [def] "Any process that activates or increases the frequency, rate or extent of Wnt receptor signaling pathway activity." [GOC

30101 Pathogen[ Q2Q067] interacts with 10 human partners:{Q14678;Q6P1J9;Q9UBB5;O60315;O60535;Q9NYF0;P12755;Q9NRI5;P35813;Q9NSC2}

30102 Pathogen[ P0C214] interacts with 10 human partners:{P35813;Q9NRI5;Q14678;O60535;Q6P1J9;Q9NSC2;P12755;Q9UBB5;O60315;Q9NYF0}

30103 Pathogen[ P03346] interacts with 10 human partners:{Q06945;Q9NRI5;P35813;Q14678;O60315;Q9NSC2;Q9NYF0;O60535;Q9UBB5;Q6P1J9}

30104 Pathogen[ Q85601] interacts with 10 human partners:{Q6P1J9;O60315;Q9NYF0;P12755;O60535;Q14678;Q9NRI5;Q9NSC2;P35813;Q9UBB5}

30105 Pathogen[ P14079] interacts with 9 human partners:{P12755;Q9UBB5;Q9NRI5;O60315;P35813;Q6P1J9;Q14678;Q9NSC2;Q9NYF0}

30106 Pathogen[ P03383] interacts with 8 human partners:{Q6P1J9;Q14678;Q9NRI5;P35813;Q9UBB5;O60535;Q9NSC2;Q9NYF0}

30107 Pathogen[ P03410] interacts with 9 human partners:{P35813;O60535;P12755;Q9UBB5;Q6P1J9;Q9NYF0;Q14678;Q9NRI5;Q9NSC2}

30108 Pathogen[ P14075] interacts with 8 human partners:{Q9NSC2;P35813;Q9UBB5;Q9NRI5;Q6P1J9;Q14678;Q9NYF0;O60535}

30109 Pathogen[ P0C206] interacts with 10 human partners:{Q9UBB5;Q9NSC2;Q14678;P12755;O60535;Q9NRI5;O60315;Q9NYF0;Q6P1J9;P35813}

30110 Pathogen[ P03363] interacts with 7 human partners:{O60315;O60535;Q9NYF0;Q6P1J9;Q9NRI5;Q14678;Q9UBB5}

30111 [Cluster 2738]GO:0043122+P biological\_process [name] regulation of I-kappaB kinase/NF-kappaB cascade [def] "Any process that modulates an I-kappaB kinase/NF-kappaB induced cascade." [GOC

30112 Pathogen[ Q2Q067] interacts with 4 human partners:{P04792;Q9Y297;O14920;Q13501}

30113 Pathogen[ P0C214] interacts with 4 human partners:{P04792;Q9Y297;Q13501;O14920}

30114 Pathogen[ P03346] interacts with 5 human partners:{O14920;Q6FIF0;Q9Y297;P04792;Q13501}

30115 Pathogen[ Q85601] interacts with 3 human partners:{O14920;P04792;Q13501}

30116 Pathogen[ P14079] interacts with 2 human partners:{Q13501;P04792}

30117 Pathogen[ P03383] interacts with 3 human partners:{O14920;P04792;Q13501}

30118 Pathogen[ P03410] interacts with 3 human partners:{O14920;Q13501;P04792}

30119 Pathogen[ P14075] interacts with 3 human partners:{P04792;O14920;Q13501}

30120 Pathogen[ P0C206] interacts with 3 human partners:{Q13501;O14920;P04792}

30121 Pathogen[ P03363] interacts with 3 human partners:{O14920;Q6FIF0;P04792}

30122 [Cluster 2739]GO:0000398+P biological\_process [name] nuclear mRNA splicing, via spliceosome [def] "The joining together of exons from one or more primary transcripts of nuclear messenger RNA (mRNA) and the excision of intron sequences, via a spliceosomal mechanism, so that mRNA consisting only of the joined exons is produced." [GOC

30123 Pathogen[ Q2Q067] interacts with 129 human partners:{Q9UNP9;O43290;Q13573;P33240;P52434;P83876;Q86U42;P07910;Q9Y333;Q8WUQ7;P55769;Q9H2H8;O95391;P52272;P61326;O75494;P14866;Q15459;O43447;P67809;P55795;Q01130;P62318;Q8WWY3;Q8N684;O95400;O43390;Q13435;P19388;Q96DI7;P52435;Q15696;O43172;Q9UK45;P38919;Q14103;O60506;P30876;P19387;O00148;Q9H307;P61218;Q8IX12;Q13838;Q9ULR0;Q07955;Q9BWJ5;Q9BRD0;Q9BZI7;Q16629;O94906;P31943;Q10570;Q12996;P62314;P08621;P61978;P38159;P62487;P62304;P84103;Q8IYB3;Q05048;O94913;Q86V81;Q8IYW8;Q96DF8;Q96IZ7;Q05519;P26368;Q6P2Q9;Q6NZY4;Q9UBB9;Q8WXD5;Q08211;P08579;P52597;P14678;Q9Y5S9;Q01081;O75533;Q8TEQ6;Q9P2IO;P13984;Q13243;P09661;Q15366;P62875;P24928;O43809;O95777;Q15029;P09012;Q09161;Q9P013;Q9HCG8;Q9UQ35;Q9BUJ2;Q7RTV0;Q9BRR8;P52298;P35269;Q15427;P62316;O43395;Q9UKF6;Q14683;P53803;Q96MU7;O60508;P62306;Q9H840;Q15637;P35637;P22626;P11940;Q14331;P62308;Q9UMS4;O14893;Q99459;Q12874;Q00839;Q9HCS7;O43660;P09234;P62310;Q15428;P51003}

30124 Pathogen[ P0C214] interacts with 133 human partners:{Q12996;Q9BZI7;Q6NZY4;P26368;P62316;Q9HCS7;Q9ULR0;Q09161;Q8IX12;Q13573;Q14331;O43172;P35637;O94913;O00148;P38159;Q9UKF6;P30876;Q6UXO4;P53803;P84103;Q86V81;Q9Y5S9;P51003;O60508;P35269;P26599;O95400;P14678;Q15029;P62306;P52435;Q15637;P67809;Q05048;Q6P2Q9;Q9BWJ5;Q8IYW8;Q15428;Q9H307;P61218;O43395;P11940;Q10570;Q8WXD5;P62308;Q9UK45;P08579;O43390;Q15366;Q8N684;O94906;Q9UMS4;Q96IZ7;Q07955;Q9H2H8;P55795;Q9Y333;P52298;P52272;P62487;Q9Y3C6;P62314;P07910;Q8IYB3;O43809;Q15696;Q9BRR8;P08621;Q14103;P62310;P55769;Q99459;P61326;Q8TEQ6;P38919;Q96DF8;Q13243;Q15427;P83876;Q9P2IO;P52597;Q05519;Q7RTV0;Q9BUJ2;Q15459;P62318;Q01081;O75533;Q96DI7;P33240;P62875;Q96BP3;P13984;Q12874;O95777;O75494;Q9H840;Q15287;P24928;P31943;P62304;P09012;Q14683;O43447;Q9P013;O605

- 06;Q9HCG8;O14893;Q9BRD0;P09661;Q9UQ35;O43290;P52434;Q08211;Q13435;Q00839;P09234;Q96MU7;P19387;P22626;P19388;O95391;Q9UNP9;Q86U42;Q13838;Q15365;O43660;Q9UBB9;Q16629;P14866;Q01130;Q8WWY3}
- 30125 Pathogen[ P03346] interacts with 153 human partners: {Q9BRD0;Q9Y5S9;O95400;Q9BZI7;Q15427;P51991;Q12874;Q9BRR8;Q86U42;Q96MU7;P61978;Q9ULR0;Q96DF8;O43172;Q09161;Q8IX12;Q15366;P52434;O43290;Q9H2H8;Q08170;Q8IYB3;P09651;O43447;Q9Y3C6;Q7RTV0;P14866;P62304;P83876;Q9UKF6;O95777;O95391;P08579;P55795;Q6UX04;Q9UK59;Q15637;Q9UMS4;O60506;Q9H307;Q8WXD5;P53803;P38919;P07910;Q96BP3;Q8N684;P61218;P08621;P11940;Q13242;P31943;Q00839;Q13247;P26599;Q9BUJ2;Q08211;P52298;O43390;Q9HCS7;Q16629;P22626;O94906;Q9BUQ8;Q9Y333;Q07955;Q9P013;Q05048;P52756;Q14103;P62487;P19388;P35637;P11940;P62310;Q13435;P62318;Q86V81;O60508;P13984;P61326;P22626;Q75643;P67809;Q9HCG8;Q13435;Q14683;P52435;P62306;Q6NZY4;O94913;P26368;P55769;Q01081;O75533;P36954;Q8TEQ6;P61326;Q13838;P31942;Q15459;Q9BWI5;Q9UNP9;P42285;Q99459;Q8WWY3;O43809;Q6P2Q9;Q96DI7;Q14562;P09012;P84103;Q9UQ35;O95926;Q8IWX8;P62314;P52272;Q15287;Q05519;P30876;P35269;Q01130;P14678;Q9BZJ0;Q9P2I0;O14893;P51513;P24928;Q13573;Q13243;O00148;Q96IZ7;P38159;Q15029;P62316;Q15696;Q8WUQ7;P52597;P09234;O75494;P62308;Q10570;Q12996;P62995;P62310;Q9UK45;Q15393;P09661;Q15365;Q9BRX9;P33240;P62875;P19387;Q9H840;Q15428;Q14331;O43395}
- 30126 Pathogen[ Q85601] interacts with 124 human partners: {Q9BZI7;Q6UX04;Q15637;Q9BRR8;Q96MU7;P61978;P09234;P36954;Q9ULR0;Q9HCS7;Q9H2H8;O43390;Q8IYB3;Q96BP3;Q7RTV0;Q13243;Q05048;P62304;Q01130;Q9H307;O60506;Q14331;Q14103;O95391;Q8N684;Q13573;Q15459;Q9UMS4;P61326;P22626;Q15287;Q00148;P53803;P61218;Q94913;Q8IX12;P08621;Q9P013;Q86V81;Q9BUJ2;P55795;O75494;Q16629;Q9UK45;Q08211;P62316;O94906;Q07955;P55769;Q9UBB9;Q09161;Q96DI7;P38919;P14678;P62487;P19388;P35637;P11940;P62310;Q13435;P62314;P13984;P62306;O60508;Q8TEQ6;Q13838;Q14683;P52435;Q9BRD0;P62318;Q15029;P52597;Q6NZY4;Q9Y3C6;Q10570;Q9P2I0;P35269;Q99459;Q01081;Q9UQ35;Q05519;P67809;O43395;O43290;Q8WWY3;P84103;O95777;O95400;P14866;Q6P2Q9;Q96IZ7;P83876;Q43447;Q00839;P19387;O14893;O43660;P24928;P62308;P52298;P30876;P38159;P52434;Q15696;P26368;Q9Y333;Q9HCS7;Q15365;P51003;Q86U42;P31943;O43172;Q9UKF6;P09661;P33240;Q15366;P62875;Q96DF8;Q12874;O43809;Q9Y5S9;Q9BWI5;Q8WXD5;Q9H840}
- 30127 Pathogen[ P14079] interacts with 131 human partners: {Q15637;O43809;P62875;Q96MU7;Q99459;Q9Y333;Q8IX12;O43447;Q15287;Q8TEQ6;O94906;O60508;P35637;P19387;P35269;O14893;Q9UKF6;Q14103;P67809;P62487;O75533;Q9UK45;Q10570;P52434;P52298;Q96DF8;Q12874;Q13243;Q9Y5S9;Q9BUJ2;Q6NZY4;Q15514;P33240;P30876;P61218;Q9P013;P26368;P83876;P14866;P07910;Q13838;Q13573;Q9H840;O94913;Q15029;P53803;Q6P2Q9;P62314;Q9HCS7;Q15427;Q08211;Q05048;Q9H307;Q0839;O43290;Q8WWY3;Q15459;P62306;P14678;O95400;Q8IYB3;Q9ULR0;Q16629;P26599;P55795;Q9BWI5;P61326;P19388;O95926;Q9UMS4;Q9BZJ0;P11940;Q05519;Q7RTV0;Q9BRR8;P08621;Q9H2H8;Q8N684;Q9UQ35;P52435;Q86V81;Q86U42;Q96IZ7;Q00148;P62308;O60506;Q15696;Q9UBB9;P09012;Q15366;P62304;Q15428;P62316;Q9BRD0;P62310;Q07955;Q15365;Q8WUQ7;P61978;P31943;Q01081;P13984;Q9HCG8;O95777;Q14331;P55769;P52597;O43390;P09234;P24928;P51003;Q12996;P09661;Q6UX04;O43172;P52756;O75494;Q14683;P62318;P36954;O43395;Q96BP3;Q8WXD5;O95391;Q09161;P22626;P84103;Q8IWX8;Q9UK59;P38159;Q9P2I0}
- 30128 Pathogen[ P03383] interacts with 119 human partners: {Q14683;Q13573;P53803;Q07955;P09661;Q15287;Q05048;O75494;Q15366;P51003;O43390;P35269;P83876;Q9H840;Q15459;P62318;Q96IZ7;Q9UNP9;O43290;P22626;P14866;Q15029;O43172;Q96MU7;Q13838;Q9HCS7;Q9ULR0;Q9Y5S9;P55795;P62316;Q96BP3;Q9H2H8;Q10570;P62304;P61218;Q8WXD5;Q6P2Q9;P38919;O95400;Q12874;P52434;P61218;P26368;Q13243;Q9P013;P61978;Q14331;P11940;P31943;Q99459;Q86V81;Q13435;Q6NZY4;Q9UKF6;O94906;P38159;Q09161;O43447;Q16629;P62487;Q8N684;O43395;O94913;Q8IYB3;O95777;P19387;P33240;P62314;P62310;P84103;P13984;Q8TEQ6;O14893;P35637;P24928;Q01130;Q14103;P14678;Q9Y333;Q01081;Q9BRR8;Q15365;Q8IX12;O43809;P52298;Q8WUQ7;P09012;Q9H307;Q9UK45;Q05519;Q9BUJ2;P62875;Q8WWY3;Q9UQ35;P52435;P55769;Q9P2I0;Q96DF8;P62308;P19388;Q9UBB9;P30876;Q86U42;P67809;Q15637;Q9HCG8;P09234;Q00839;Q9BRD0;P08621;P52597;O95391;Q9UMS4;Q7RTV0;Q9BWI5;O00148;P62306;Q9BZI7;Q96DI7}
- 30129 Pathogen[ P03410] interacts with 138 human partners: {Q8WUQ7;P83876;Q13838;Q00839;Q9ULR0;Q15427;Q9BWI5;Q8WXD5;Q01081;O14893;P26368;Q10570;P61326;P19387;Q14103;P62304;Q8IX12;O60508;Q8WWY3;Q15637;P36954;Q12996;Q15029;Q15696;P61978;Q05048;Q16629;Q9H840;P22626;P11940;Q9BUJ2;P62306;P24928;Q15287;P62310;Q6NZY4;O95777;Q15393;Q9Y5S9;Q96BP3;P35637;Q8TEQ6;Q15365;Q9Y333;Q00148;P55769;P30876;P26599;Q96MU7;Q9P013;Q15366;Q9UK59;P62308;P14678;P62316;Q9UBB9;Q96IZ7;O15514;P14866;P09012;Q9BZI7;Q9UQ35;P51003;P08621;O43809;P67809;Q9H2H8;Q9HCS7;O94906;P07910;P08579;Q05519;Q99459;O43172;P52435;O94913;Q07955;P52597;P52298;Q9P2I0;P31943;P62314;O43660;P33240;P53803;O43395;Q15428;Q14683;Q09661;Q15459;O75533;Q86V81;P62875;P52272;Q9BR8;P35269;Q8IYB3;P38919;P61218;O95400;Q6UX04;P09234;Q01130;Q9UKF6;P52434;Q7RTV0;Q9UMS4;P13984;Q9Y3C6;Q8N684;Q9UNP9;P62487;O60506;Q09161;Q9BRD0;Q96DF8;Q6P2Q9;P84103;Q86U42;O43290;P55795;Q13243;Q12874;P38159;Q8IWX8;P19388;O43447;Q08211;Q9UK45;O95391;Q13573;Q13435;O43390;Q9H307;O75494;Q14331;Q9HCG8;P62318}
- 30130 Pathogen[ P14075] interacts with 118 human partners: {Q9H307;P51003;P22626;Q8TEQ6;Q15366;P62304;Q05519;P14866;Q9UK45;Q09161;P62316;P13984;Q8WXD5;O43809;Q9P2I0;Q13573;Q14683;P08621;Q14103;Q86V81;Q13243;O43395;P30876;P61326;O95391;Q15459;P09234;P38159;Q15428;Q96IZ7;P19388;O95400;Q01130;P61218;O95777;Q9UNP9;Q9H840;O43172;P31943;P19387;P62306;O75494;Q8IX12;P62308;O43390;Q9UQ35;O94906;Q9HCG8;Q9ULR0;Q15029;Q99459;P62487;Q96DI7;P11940;Q15365;Q00839;Q13435;P62318;Q12874;P55769;P33240;Q96DF8;Q6NZY4;Q9BUJ2;Q05048;Q9UBB9;Q15637;Q15287;P24928;Q96MU7;P35269;Q6P2Q9;P26368;Q9BRD0;Q01081;P67809;Q9UMS4;P09661;Q8IYB3;Q9BWI5;Q9Y333;P61978;P09012;P14678;O43447;Q9HCS7;Q9BRR8;Q9Y5S9;P35637;P83876;P84103;P62875;P52597;O14893;Q9H2



H8;Q14331;P62314;P38919;Q8N684;Q8WUQ7;O43290;Q9UKF6;Q13838;Q86U42;Q16629;P52434;Q9P013;Q10570;O00148;Q8WWY3;O94913;P62310;Q07955;P52298;P52435;P53803;Q9BZI7;Q7RTV0}

30131 Pathogen[ POC206] interacts with 133 human partners: {Q9BUJ2;Q9UNP9;Q15287;P67809;Q9UMS4;P33240;P62875;P83876;O00148;Q9UKF6;Q14103;P14678;O60508;Q9BZI7;Q15365;Q07955;P26368;P52298;Q9H840;P61326;Q01081;P36954;Q15696;Q09161;P55769;Q8WXD5;O94913;Q96BP3;P62304;Q05519;Q08211;P09012;O75533;P14866;Q8TEQ6;P61978;P19388;P61218;Q8N684;Q9H307;Q15637;Q9UK59;Q13243;Q12874;Q16629;Q86U42;P62314;P62316;O43390;O75494;P51003;P22626;O43809;Q9UBB9;Q8WUQ7;Q9P2I0;P13984;O43290;O95777;Q9Y333;Q13435;Q9UQ35;P53803;Q96DF8;Q9UK45;O15514;P35269;Q9BRR8;P19387;P38159;Q05048;O60506;O95400;Q13573;Q9BJW5;Q9Y3C6;Q13838;P52597;Q14683;Q9P013;Q9BRD0;P35637;O43395;Q96MU7;Q6P2Q9;P62318;Q6NZY4;Q7RTV0;Q14893;Q12996;Q8WWY3;P55795;Q8IWZ8;P52435;P62306;Q9ULR0;P62487;O43172;Q15366;Q99459;O43447;Q9HCG8;Q8IX12;Q96IZ7;P84103;O94906;P24928;Q9H2H8;Q14331;Q96DI7;P09661;O43660;P38919;P62308;O95391;P08621;Q01130;P62310;Q00839;Q9HCS7;Q15459;P11940;P09234;P31943;P52434;Q15428;Q9Y5S9;Q86V81;Q10570;Q15029;P30876;Q6UX04}

30132 Pathogen[ P03363] interacts with 156 human partners: {O95777;O95926;P62314;O43395;Q13151;Q13595;Q15366;Q96IZ7;Q9P2I0;P38919;Q96DF8;Q10570;O75643;P19388;Q13435;O95391;P13984;O95400;P52597;Q6NZY4;P09012;Q96MU7;Q08170;O60306;P30876;Q14331;P51991;Q9HCS7;Q6UX04;P14866;Q05048;Q15393;P35637;O75533;P19387;Q96BP3;P61218;P09651;P08579;Q15459;Q9Y3C6;Q7RTV0;Q9BRR8;Q16629;P62318;Q9H307;Q9BRX9;P24928;Q15427;P62304;Q01130;Q6P2Q9;P09234;P11940;Q86U42;Q8WWY3;Q14893;Q92620;O94913;O43447;P61326;Q8IWZ8;P62306;Q05519;P35269;P52272;Q15029;Q15287;Q8N684;Q9Y3B4;Q9BJW5;Q9Y333;Q14562;P62316;Q13242;Q8WUQ7;Q8IYB3;O43809;P38159;P26368;Q12874;P31943;O43172;Q9ULR0;P51003;O00148;Q15637;Q13243;Q8WXD5;Q86V81;P07910;P31942;O43290;Q13573;P52298;Q13838;P08621;Q9H840;P22626;P83876;Q15365;P26599;P62487;Q14103;P55795;P62310;Q9UKM9;Q8IX12;Q07955;O43660;O60506;Q01081;Q9UK45;Q9BZI7;P61978;O94906;Q9HCG8;Q13247;Q15428;P55769;Q5SZQ8;Q8TEQ6;Q00839;P62308;Q9P013;Q9UKF6;P84103;Q9UMS4;P51513;O43390;P62995;P14678;P53803;P52435;P09661;Q08211;P52434;Q99459;Q9BUJ2;P33240;Q9UQ35;Q14683;Q15696;Q9BRD0;Q9Y5S9;Q12996;Q9H2H8;Q9UNP9;Q9BZJ0;O75494;P67809;Q96DI7;O60508;Q09161;P42285;P52756}

30133 [Cluster 2740]GO:0060389+P biological\_process [name] pathway-restricted SMAD protein phosphorylation [def] "The process of introducing a phosphate group on to a pathway restricted SMAD protein. A pathway restricted SMAD protein is an effector protein that acts directly downstream of the transforming growth factor family receptor." [GOC]

30134 Pathogen[ Q2Q067] interacts with 1 human partners: {O15105}

30135 Pathogen[ POC214] interacts with 1 human partners: {O15105}

30136 Pathogen[ P03346] interacts with 1 human partners: {O15105}

30137 Pathogen[ Q85601] interacts with 1 human partners: {O15105}

30138 Pathogen[ P14079] interacts with 1 human partners: {O15105}

30139 Pathogen[ P03383] interacts with 1 human partners: {O15105}

30140 Pathogen[ P03410] interacts with 1 human partners: {O15105}

30141 Pathogen[ P14075] interacts with 1 human partners: {O15105}

30142 Pathogen[ POC206] interacts with 1 human partners: {O15105}

30143 Pathogen[ P03363] interacts with 1 human partners: {O15105}

30144 [Cluster 2741]GO:000046+P biological\_process [name] autophagic vacuole fusion [def] "The fusion of an autophagic vacuole with a vacuole (yeast) or lysosome (e.g. mammals and insects). In the case of yeast, inner membrane-bounded structures (autophagic bodies) appear in the vacuole." [PMID]

30145 Pathogen[ Q2Q067] interacts with 1 human partners: {Q9Y4P8}

30146 Pathogen[ POC214] interacts with 1 human partners: {Q9Y4P8}

30147 Pathogen[ P03346] interacts with 1 human partners: {Q9Y4P8}

30148 Pathogen[ Q85601] interacts with 1 human partners: {Q9Y4P8}

30149 Pathogen[ P14079] interacts with 1 human partners: {Q9Y4P8}

30150 Pathogen[ P03383] interacts with 1 human partners: {Q9Y4P8}

30151 Pathogen[ P03410] interacts with 1 human partners: {Q9Y4P8}

30152 Pathogen[ P14075] interacts with 1 human partners: {Q9Y4P8}

30153 Pathogen[ POC206] interacts with 1 human partners: {Q9Y4P8}

30154 Pathogen[ P03363] interacts with 1 human partners: {Q9Y4P8}

30155 [Cluster 2742]GO:0001779+P biological\_process [name] natural killer cell differentiation [def] "The process in which a relatively unspecialized cell acquires the specialized features of a natural killer cell." [GOC]

30156 Pathogen[ Q2Q067] interacts with 3 human partners: {O75896;Q02447;P15923}

30157 Pathogen[ POC214] interacts with 3 human partners: {O75896;P15923;Q02447}

30158 Pathogen[ P03346] interacts with 3 human partners: {P15923;Q02447;Q02447}

30159 Pathogen[ Q85601] interacts with 2 human partners: {P15923;Q02447}

30160 Pathogen[ P14079] interacts with 3 human partners: {O75896;Q02447;P15923}

30161 Pathogen[ P03383] interacts with 3 human partners: {O75896;P15923;Q02447}

30162 Pathogen[ P03410] interacts with 3 human partners: {Q02447;P15923;O75896}

30163 Pathogen[ P14075] interacts with 3 human partners: {P15923;O75896;Q02447}

30164 Pathogen[ POC206] interacts with 4 human partners: {O75896;P15923;Q02447;Q13422}

30165 Pathogen[ P03363] interacts with 2 human partners: {Q02447;P15923}

30166 [Cluster 2743]GO:0046015+P biological\_process [name] regulation of transcription by glucose [def] "Any process involving glucose that modulates the frequency, rate or extent or transcription." [GOC]

30167 Pathogen[ Q2Q067] interacts with 1 human partners: {O43159}

30168 Pathogen[ POC214] interacts with 1 human partners: {O43159}

30169 Pathogen[ P03346] interacts with 1 human partners:{O43159}  
30170 Pathogen[ Q85601] interacts with 1 human partners:{O43159}  
30171 Pathogen[ P14079] interacts with 1 human partners:{O43159}  
30172 Pathogen[ P03383] interacts with 1 human partners:{O43159}  
30173 Pathogen[ P03410] interacts with 1 human partners:{O43159}  
30174 Pathogen[ P14075] interacts with 1 human partners:{O43159}  
30175 Pathogen[ P0C206] interacts with 1 human partners:{O43159}  
30176 Pathogen[ P03363] interacts with 1 human partners:{O43159}  
30177 [Cluster 2744]GO:0031398+P biological\_process [name] positive regulation of protein ubiquitination [def] "Any process that activates or increases the frequency, rate or extent of the addition of ubiquitin groups to a protein." [GOC  
30178 Pathogen[ Q2Q067] interacts with 26 human partners:{O75832;Q8IUC6;Q6ZW49;Q9UDY8;Q86VY4;Q8N2Z9;O95999;A8MT69;Q6ZNA4;Q6VVB1;Q9NV11;O43236;Q96MT3;Q9NZL4;P51668;O15105;Q96PM5;Q96FA3;Q13155;Q96MG7;Q9UNE7;Q9NS23;Q9H040;Q8N668;Q96EY1;Q9UKT5}  
30179 Pathogen[ P0C214] interacts with 27 human partners:{Q9NZL4;Q96PM5;Q9H040;Q9NS23;Q8IUC6;Q9UDY8;Q96FA3;Q8N668;Q96MT3;Q6ZW49;Q9HC E7;Q8N2Z9;O75832;O95999;O15105;Q9NV11;Q96MG7;Q6ZNA4;Q9NV92;Q86VY4;P51668;Q9UNE7;O43236;Q96EY1;Q6VVB1;Q13155;Q9UKT5}  
30180 Pathogen[ P03346] interacts with 28 human partners:{Q8N2Z9;Q9NV11;Q9NZL4;Q8N668;A8MT69;Q9UDY8;Q96MG7;Q96PM5;P25686;O15105;Q9NV92;P51668;Q96FA3;O95999;Q96MT3;O75832;Q13155;O43236;Q86VY4;Q9UKT5;Q9UNE7;Q9H040;Q6ZNA4;Q6VVB1;Q8IUC6;Q9NS23;Q96EY1;Q6ZW49}  
30181 Pathogen[ Q85601] interacts with 26 human partners:{Q9H040;Q8IUC6;Q13155;Q9UDY8;O75832;Q96MG7;Q96PM5;Q9NS23;P51668;Q96FA3;Q96MT3;Q86VY4;Q9NV11;A8MT69;Q8N668;Q8N2Z9;Q6VVB1;Q6ZW49;Q6ZNA4;O15105;O95999;Q9NZL4;Q9UKT5;Q9UNE7;Q96EY1;O43236}  
30182 Pathogen[ P14079] interacts with 23 human partners:{Q9UKT5;Q9NS23;O95999;Q8IUC6;Q9H040;Q6ZNA4;O75832;Q96FA3;Q9NV11;P51668;Q8N2Z9;Q6ZW49;Q8N668;A8MT69;Q13155;Q96MG7;Q9NV92;Q86VY4;O15105;Q96MT3;Q9NZL4;Q96EY1;O43236}  
30183 Pathogen[ P03383] interacts with 22 human partners:{Q8N2Z9;Q8IUC6;Q86VY4;Q8N668;O43236;Q96MT3;Q6ZNA4;Q6ZW49;Q13155;O75832;O15105;Q9NV11;Q9H040;Q9UKT5;Q96PM5;A8MT69;Q9NZL4;O95999;Q96MG7;Q96FA3;Q96EY1;P51668}  
30184 Pathogen[ P03410] interacts with 25 human partners:{Q9H040;Q6ZNA4;Q13155;Q9NV11;Q96FA3;Q9NS23;P25686;Q9UKT5;Q9NV92;Q96MG7;Q9UNE7;O95999;O43236;Q86VY4;P51668;O15105;Q8IUC6;A8MT69;Q9NZL4;Q96MT3;Q8N668;Q6ZW49;Q96EY1;O75832;Q8N2Z9}  
30185 Pathogen[ P14075] interacts with 23 human partners:{A8MT69;Q96MT3;Q96PM5;Q13155;Q9NV11;O75832;O43236;Q6ZW49;Q9H040;Q8N668;Q8N2Z9;Q9UKT5;Q6ZNA4;Q96FA3;O15105;O95999;Q8IUC6;Q9NV92;Q86VY4;P51668;Q96MG7;Q9NZL4;Q96EY1}  
30186 Pathogen[ P0C206] interacts with 27 human partners:{O75832;Q9UDY8;Q96MT3;Q6ZW49;Q9NV92;Q6ZNA4;O95999;Q86VY4;Q96MG7;O43236;Q9NV11;O15105;Q9UNE7;Q9NZL4;Q8IUC6;Q96FA3;Q13155;Q96PM5;Q8N2Z9;Q9NS23;Q8N668;Q9H040;Q96EY1;Q9UKT5;P51668;Q6VVB1;A8MT69}  
30187 Pathogen[ P03363] interacts with 22 human partners:{Q9NV11;Q9NZL4;Q96MT3;Q8N2Z9;O15105;Q6VVB1;Q6ZNA4;Q8N668;Q13155;Q96FA3;Q9UKT5;Q86VY4;Q9UNE7;Q9H040;Q96PM5;Q9NS23;P51668;Q96MG7;Q6ZW49;Q96EY1;O43236;A8MT69}  
30188 [Cluster 2745]GO:0051292+P biological\_process [name] nuclear pore complex assembly [def] "The aggregation, arrangement and bonding together of a set of components to form a nuclear pore complex." [GOC  
30189 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8WYP5}  
30190 Pathogen[ P0C214] interacts with 1 human partners:{Q8WYP5}  
30191 Pathogen[ P03346] interacts with 2 human partners:{Q8WYP5;Q9BTX1}  
30192 Pathogen[ Q85601] interacts with 1 human partners:{Q8WYP5}  
30193 Pathogen[ P14079] interacts with 2 human partners:{Q8WYP5;Q9BTX1}  
30194 Pathogen[ P03383] interacts with 2 human partners:{Q8WYP5;Q9BTX1}  
30195 Pathogen[ P03410] interacts with 2 human partners:{Q8WYP5;Q9BTX1}  
30196 Pathogen[ P14075] interacts with 2 human partners:{Q8WYP5;Q9BTX1}  
30197 Pathogen[ P0C206] interacts with 2 human partners:{Q8WYP5;Q9BTX1}  
30198 Pathogen[ P03363] interacts with 2 human partners:{Q8WYP5;Q9BTX1}  
30199 [Cluster 2746]GO:0015701+P biological\_process [name] bicarbonate transport [def] "The directed movement of bicarbonate into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore." [GOC  
30200 Pathogen[ Q2Q067] interacts with 2 human partners:{P68871;P69905}  
30201 Pathogen[ P0C214] interacts with 2 human partners:{P69905;P68871}  
30202 Pathogen[ P03346] interacts with 2 human partners:{P69905;P68871}  
30203 Pathogen[ Q85601] interacts with 2 human partners:{P69905;P68871}  
30204 Pathogen[ P14079] interacts with 3 human partners:{P69905;P68871;P00915}  
30205 Pathogen[ P03383] interacts with 2 human partners:{P69905;P68871}  
30206 Pathogen[ P03410] interacts with 2 human partners:{P68871;P69905}  
30207 Pathogen[ P14075] interacts with 2 human partners:{P68871;P69905}  
30208 Pathogen[ P0C206] interacts with 3 human partners:{P68871;P00915;P69905}  
30209 Pathogen[ P03363] interacts with 2 human partners:{P69905;P68871}  
30210 [Cluster 2747]GO:0030833+P biological\_process [name] regulation of actin filament

polymerization [def] "Any process that modulates the frequency, rate or extent of the assembly of actin filaments by the addition of actin monomers to a filament." [GOC

30211 Pathogen[ Q2Q067] interacts with 1 human partners:{O15511}

30212 Pathogen[ POC214] interacts with 2 human partners:{O15144;O15511}

30213 Pathogen[ P03346] interacts with 3 human partners:{O15511;O15144;O15145}

30214 Pathogen[ Q85601] interacts with 2 human partners:{O15511;O15144}

30215 Pathogen[ P14079] interacts with 6 human partners:{P15502;Q9BPX5;O15145;O15511;P61158;O15144}

30216 Pathogen[ P03383] interacts with 2 human partners:{O15511;P15502}

30217 Pathogen[ P03410] interacts with 5 human partners:{O15511;O15145;P15502;Q9BPX5;O15144}

30218 Pathogen[ P14075] interacts with 2 human partners:{O15511;P15502}

30219 Pathogen[ POC206] interacts with 4 human partners:{O15511;P15502;O15145;O15144}

30220 Pathogen[ P03363] interacts with 5 human partners:{Q9BPX5;O15144;O15143;O15145;O15511}

30221 [Cluster 2748]GO:0060058+P biological\_process [name] positive regulation of apoptosis involved in mammary gland involution [def] "Any process that activates or increases the frequency, rate or extent of cell death by apoptosis of mammary epithelial cells during mammary gland involution." [GOC

30222 Pathogen[ Q2Q067] interacts with 1 human partners:{P42771}

30223 Pathogen[ POC214] interacts with 1 human partners:{P42771}

30224 Pathogen[ P03346] interacts with 1 human partners:{P42771}

30225 Pathogen[ Q85601] interacts with 1 human partners:{P42771}

30226 Pathogen[ P14079] interacts with 1 human partners:{P42771}

30227 Pathogen[ P03383] interacts with 1 human partners:{P42771}

30228 Pathogen[ P03410] interacts with 1 human partners:{P42771}

30229 Pathogen[ P14075] interacts with 1 human partners:{P42771}

30230 Pathogen[ POC206] interacts with 1 human partners:{P42771}

30231 Pathogen[ P03363] interacts with 1 human partners:{P42771}

30232 [Cluster 2749]GO:0071230+P biological\_process [name] cellular response to amino acid stimulus [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an amino acid stimulus. An amino acid is a carboxylic acids containing one or more amino groups." [CHEBI

30233 Pathogen[ Q2Q067] interacts with 5 human partners:{Q9Y6K1;P17676;Q9UBC3;P26358;O43504}

30234 Pathogen[ POC214] interacts with 5 human partners:{Q9Y6K1;P17676;P26358;O43504;O15524}

30235 Pathogen[ P03346] interacts with 6 human partners:{Q9Y6K1;O15524;P17676;Q9UBC3;P26358;O43504}

30236 Pathogen[ Q85601] interacts with 4 human partners:{P17676;P26358;Q9Y6K1;Q9UBC3}

30237 Pathogen[ P14079] interacts with 9 human partners:{Q9Y2Q5;Q9Y6K1;P13498;Q9UHA4;Q0VGL1;Q9UBC3;Q6IAA8;P26358;O43504}

30238 Pathogen[ P03383] interacts with 4 human partners:{Q9Y6K1;P17676;O43504;P26358}

30239 Pathogen[ P03410] interacts with 9 human partners:{Q9Y2Q5;O43504;P17676;Q9UHA4;P26358;Q9UBC3;Q6IAA8;Q0VGL1;Q9Y6K1}

30240 Pathogen[ P14075] interacts with 4 human partners:{Q9Y6K1;P26358;O43504;P17676}

30241 Pathogen[ POC206] interacts with 7 human partners:{Q9UHA4;Q9Y6K1;P26358;O15524;O43504;P17676;Q9UBC3}

30242 Pathogen[ P03363] interacts with 6 human partners:{P17676;O15524;Q9Y6K1;O43504;P26358;Q9UBC3}

30243 [Cluster 2750]GO:0015031+P biological\_process [name] protein transport [def] "The directed movement of proteins into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore." [GOC

30244 Pathogen[ Q2Q067] interacts with 247 human partners:{Q92783;Q7Z3C6;P49454;Q14974;Q9UI26;Q4G0F5;Q96EE3;Q8IUD2;O15027;O75351;Q9H2G9;O60684;Q94973;P52948;Q7LBR1;Q12769;O00186;Q9Y6D6;Q9Y6Q5;O00410;Q99747;Q10567;Q96HA1;O15126;P56377;Q63HQ0;Q96QU8;O43747;Q9Y4P1;P49790;O95782;Q9H444;Q2VPB7;Q9NVU7;Q92572;O60784;P49792;O14579;Q7Z6B0;Q9NPJ8;P55735;Q9H2T7;O75694;P62826;Q99816;Q9H1H9;Q9P299;Q6PD74;Q96B49;Q8WV92;Q9UJY4;Q9BRG1;A8CG34;Q9UJY5;Q8WYP5;O94829;Q9UP83;O43752;O14662;Q53FT3;P83436;Q96EY5;P61970;Q99567;Q8N1F7;Q9C0E2;Q8N1B4;Q86VX9;Q13432;Q9UBQ0;Q7L804;P48444;Q9Y3R5;Q7Z3B4;O14910;O00189;Q7Z614;Q96P70;Q8NPF4;Q96N16;P63241;Q96KP1;Q92973;P12270;Q9H267;P63010;Q96PC3;Q9Y5L0;Q8N612;Q15629;O15069;Q96QF0;O75886;Q9UND3;O75381;Q96CW1;P61923;O43745;P60520;O95721;Q8N0Z2;O43264;O75396;O15127;Q8WUM4;Q96L92;O14980;O60645;Q15388;P53677;Q5HYI7;O15131;O00471;Q9UBF2;Q9BYV8;Q9BW27;O14787;Q9H9C1;Q53GS7;Q8TEM1;Q9H8T0;Q96BW9;Q8TEX9;Q14746;Q92624;P61966;A9QM74;Q5VIR6;Q15437;P55060;A5D8V6;O60220;P53992;Q9Y5J6;O95486;Q9BVL2;Q96D46;Q96RL7;O75843;Q9HD42;Q96JB2;O94855;Q02410;Q9UQN3;O15078;Q9UKX7;Q9HD47;Q6IS14;Q9UN37;Q8IWT2;Q96H20;Q9Y2T2;Q9H0R1;Q9H7P6;Q9NZ3;Q9NFH3;O00505;Q9BXS5;Q9UIA9;Q96JE7;Q9UK41;Q86VQ0;Q9NRA8;Q9HAV4;P37198;A6NF01;Q8TAC9;Q92621;P54920;P62072;Q9Y3E7;O75436;Q96QK1;Q14764;O43299;O15397;Q9P1Q0;Q13228;Q9H9H4;O95373;Q96CF2;Q9Y5J7;P53618;Q9H009;O00629;O15504;O43615;Q6NUQ1;P57740;Q9HC62;O95271;Q6ULP2;P52292;O15155;A6NIH7;Q9NP79;Q9H6Z4;O60763;Q9UKK6;O00161;Q15833;O14925;O75382;Q9P0U1;O95487;O43633;O14964;Q9NUS5;O75558;Q8WUM0;O96018;P35579;P35606;Q8WTW3;Q9GZV4;Q96NA2;P49321;Q8WUX9;O60518;Q9Y678;Q676U5;Q9UPT5;Q86VS8;Q9P2W9;Q9BXF6;Q13765;Q86VN1;Q9NT62;P35658;Q96ED9;P49754;Q8NPF5;P52294;Q15436;Q9H9E3;O75674;Q96GV9;Q8NEZ2;Q9NZ52;Q9H814;Q8IYI6;Q13367;Q5SRE5;Q15276;Q96CW6;P14625;Q9NUP9}

- 30245 Pathogen[ P0C214] interacts with 256 human partners: {P60520;Q96BW9;Q94829;Q96CW1;Q8TEX9;Q15833;Q9UI26;Q6NUQ1;O15078;Q9Y5L0;P61923;Q8IWJ2;P55735;Q8IX04;A9QM74;O14910;Q14746;P49754;P14625;Q6IS14;Q9UIA9;Q8N0Z2;O14787;Q9P299;Q8WUX9;Q8NFH5;Q96CF2;Q8N2H4;P55060;Q96P70;Q99747;Q15388;Q92624;Q13505;Q75351;P53992;O43264;Q9H9E3;P59780;Q9UJY5;Q99698;O00159;Q96ED9;Q9UPT5;Q9GZV4;Q8TEM1;Q9H814;Q96QK1;Q8TAC9;Q9UM54;O14579;Q9NP79;Q14764;Q9H444;O60220;Q9Y2T2;Q96GV9;Q96D46;P57740;O00189;Q13367;Q9HD42;Q9Y4P1;Q99567;P31150;P53618;Q8WYP5;O60684;P35606;Q9UND3;O00186;P48444;Q9BYV8;Q8N1F7;Q9NUS5;O75694;Q96NA2;Q86VX9;P83436;Q96EE3;O14964;Q676U5;Q9HAV4;Q9NPJ8;O43745;O95721;P49792;O75381;O75886;O96018;P54920;O15127;Q9UKX7;Q9UQN3;Q7Z614;Q9UK41;Q9HOR1;Q8N612;Q2VPB7;P63241;Q15436;O15131;O75843;A8CG34;Q9H089;P62072;Q7L804;Q96QU8;Q5VIR6;Q9BY43;O43299;Q9H7P6;P63010;Q10567;Q7LBR1;O14925;Q86VS8;Q92572;P49790;Q96EY5;A6NF01;O14980;P37198;Q9BW27;P52294;Q9UBF2;O95487;P49257;Q9H8T0;Q9UJY4;O15126;Q53GS7;Q9BRG1;P53677;Q9UKK6;Q96L92;P56377;Q15437;O43615;P35658;Q9Y5J9;Q9H2G9;P49321;Q9BQQ3;Q13765;Q96PC3;Q9NVU7;Q8NFH3;Q9NZ52;Q9Y5J6;Q7Z6B0;Q96RL7;Q8NEZ2;Q9BXF6;O43752;Q8N1B4;O60763;O00505;Q9Y3E7;Q9HD26;O60784;P62826;Q99816;O43747;Q9HD47;O75436;Q5VIR6;O94973;Q9NUU7;Q9P1Q0;Q9Y6Q5;Q9H009;Q9UBQ0;Q15629;O15504;Q02410;Q3ZCQ8;Q9Y5J7;Q9NZ3;Q9UP83;O75396;Q6ULP2;Q9Y6D6;Q9UHJ9;Q9UMR2;Q92973;A6NIH7;Q9HC62;Q6PD74;P61966;Q8N4Q1;P52292;P12270;O15069;Q96B49;Q96H20;Q14974;O95782;A5D8V6;O60645;Q9P0U1;Q9H2T7;Q9UN37;O75558;Q9H9C1;Q8NFH4;Q9BVL2;Q92783;Q13228;O43633;O75674;Q9H9H4;Q5HYI7;Q9Y3R5;O95271;Q63HQ0;P49454;Q96JE7;Q8IUD2;P53680;Q9Y678;P61970;Q5SRE5;Q9NT62;Q96JB2;O95373;Q9C0E2;Q8IYI6;Q96QF0;Q9H6Z4;Q7Z3B4;Q9BXS5;O00161;O15155;O15027;O60518;Q8WUM0;O95486;Q86VNL;P52948;Q92621;O15397;Q4G0F5;Q12769;O00629;Q13432;Q8WTW3;Q7Z3C6;Q9P2W9;O00471;Q96CW6;O94855;Q9NRA8;Q96N16;Q8WUM4;Q96HA1}
- 30246 Pathogen[ P03346] interacts with 322 human partners: {O95166;Q8TEM1;Q13596;Q8TEX9;Q8IYI6;O75382;Q15833;Q9UI26;O14925;Q4G0F5;P61966;P55735;Q5VIR6;Q86XT2;Q9H1M0;Q96P70;O43752;Q8N0Z2;Q96QK1;Q14746;Q8NFH4;Q99698;Q8WUM0;Q86VQ0;O00629;O15397;Q9H115;Q7Z3C6;Q5JWR5;Q9UPT5;Q9HAV4;Q9P2W9;O15027;P12270;Q9H2G9;Q9Y4P1;Q13228;Q9Y6B7;Q99598;Q9NS69;Q9UP83;O00471;Q12769;Q96A65;Q8N4Q1;Q9H2T7;Q86VS8;Q96EE3;Q99567;Q96N16;Q96JB2;Q15036;Q9GZV4;Q14764;P63010;O14787;A5D8V6;Q2VPB7;P14625;Q9P253;Q9UKX7;Q8N612;O43747;Q9Y3D7;O75694;Q9HD42;P35579;Q92572;Q96MW5;P60520;P53680;Q9C0E2;P49754;Q9UMR2;Q96GV9;Q92543;P57740;P49257;P56377;Q8WYP5;O60684;O43615;Q15629;Q9P0U1;Q9H814;Q9BVL2;Q9Y6D5;P59780;Q8WTW3;O75886;Q8IUD2;Q8NEZ2;Q9BXS5;Q8N1F7;Q96T51;Q9HOR1;O00410;Q96NA2;Q9Y5J7;Q53GS7;Q86VX9;Q9Y678;O43264;O95782;Q99816;P53618;Q9UMY4;Q9H1H9;Q86VN1;Q9NT62;Q99767;O75396;O00505;Q7Z614;Q8NFH5;Q9UK41;Q9P299;Q9UBQ0;Q9H173;O14579;O00189;P63241;P37198;P55060;Q8NFH3;P35658;P49321;Q9UID3;Q9HD47;O60784;Q53H11;Q02410;Q96H20;Q9UIA9;O00186;P62826;Q96FZ7;Q9BT04;O94855;Q7Z6B0;Q6IS14;O75381;Q5SR85;Q13432;Q9BTX1;O15069;O60518;Q96CF2;Q9NZ33;Q9NRS6;Q92621;Q9Y2V7;Q9Y3R5;Q9Y6D6;Q10567;Q6NUQ1;Q9BW27;O00161;Q8NAA4;Q9BUN8;Q9Y5J6;O75843;O14980;P48444;P20340;Q92973;Q9H8T0;Q15436;Q9Y3E7;Q7L804;Q9H9E3;O60493;Q7Z3U7;Q9UPM8;Q8TAC9;Q9NUP9;Q96L92;Q9UNH7;Q15437;O43633;Q9HD26;Q9Y587;Q96JE7;O95373;Q9H444;P31150;Q6PD74;O15131;O60220;Q96CW1;O95721;Q96AX1;Q9UBF2;Q8WV92;Q9H9H4;P42566;Q96PC3;Q96RL7;Q9NVU7;Q9UJY4;Q8N1B4;Q9Y5X2;P54920;A9QM74;Q96B49;Q9NUS5;P61923;O96018;Q9BRG1;P62072;O15126;O60763;Q9UQN3;O95486;Q9HAP6;Q9BQQ3;Q9BYV8;O75436;P83436;Q9NUU7;Q9P1Q0;Q969Q5;Q9ULV0;Q9UJ41;Q5JRA6;Q9H009;P36405;Q96ED9;Q9HCU5;Q3ZCQ8;Q9HC62;Q9BY43;Q92783;Q13367;O95217;O95219;Q9NP79;A8CG34;P52292;Q6ULP2;Q9H9C1;Q15388;Q9UND3;O75351;P50542;Q9HA38;A6NIH7;P49790;O60684;Q9Y5L0;Q9BXF6;O14964;Q5HYI7;O95487;Q9H6Z4;O14617;O60749;Q7LBR1;Q9NRA8;O15078;Q9H8V3;P61970;Q96HA1;Q9UKK6;Q9UJY5;O43299;Q15035;O43933;Q96BW9;P49755;O75558;O75674;Q9Y6Q5;O94829;Q676U5;Q63HQ0;P35606;Q9ULU8;Q9Y2J0;Q6FIF0;O94973;Q96EY5;A6NF01;O15155;Q13765;Q92624;Q7Z3B4;Q9NZ52;O14662;Q8WUM4;Q9H7P6;Q9H267;P52294;Q96D46;O60645;P53992;O14910;Q96KP1;Q15363;Q9NPJ8;P49454;Q9BVK6;Q9UJ33;P53677;Q99747;O43745;O15504;Q8IWJ2;Q9UN37;Q53FT3;Q86Y82;Q8WUX9;Q15276;Q9Y2T2;Q96CW6;O15127;P49792;Q96QF0;Q14974;P52948;Q8WU76}
- 30247 Pathogen[ Q85601] interacts with 282 human partners: {Q8TEM1;Q13367;Q13596;Q8IYI6;Q96QK1;Q9UI26;O14925;Q99816;Q63HQ0;P49454;O00186;Q8IWJ2;Q5SRE5;P54920;O15126;Q14746;O00629;Q53FT3;O75843;Q9UPT5;Q9HAV4;Q9UIA9;Q9NP79;O15027;P48444;Q9Y2T2;Q9NUP9;Q9UQN3;Q8NFH4;Q15388;O14910;Q8NFH3;Q6NUQ1;P36405;P31150;O00471;Q96A65;Q8N2H4;Q9H7P6;Q86VS8;Q7L804;Q9UJY4;Q96EE3;Q9BQQ3;Q96H20;O75396;Q9HD47;Q9GZV4;Q96CW1;Q15629;Q15833;O14579;O95487;Q9P253;A8CG34;Q96P70;Q12769;Q8TAC9;O95166;O60763;Q96JE7;P35579;Q8WV92;Q15036;Q9UP83;P62072;Q9BXS5;P57740;Q53GS7;Q9Y4P1;Q9NUS5;Q9BRG1;P56377;Q9Y5J9;Q9Y5J6;Q8WYP5;Q9HC62;Q9P299;O15155;Q9UHJ9;P62826;O60220;Q8WUM0;Q8N1F7;Q96T51;Q96T51;Q9Y5J7;Q86VX9;Q9UMR2;O43264;Q9H9H4;Q86VN1;Q96JB2;O43747;Q9NPJ8;P61923;Q96RL7;P83436;Q9H1H9;Q9UPM8;O43299;Q9NP61;P61970;O15078;Q99767;Q14764;O43633;Q7Z614;Q5VIR6;P49754;Q7LBR1;P63241;Q9UJ41;P12270;Q10567;Q9H6Z4;Q9P2W9;Q4G0F5;P49321;O75886;Q9UJY5;Q15436;Q96BW9;Q8N612;O75694;Q9H089;Q9C0E2;O43745;Q96FZ7;Q9H9C1;Q8WTW3;O15504;Q14974;Q9H267;O94829;Q7Z3C6;O43752;Q96CF2;Q96L92;Q8N6H7;O60518;O15131;Q9BW27;Q92624;Q9H814;O00159;O75351;Q9H8T0;Q9UK41;Q9H9E3;Q9UKK6;Q96D46;Q9Y678;Q92621;Q9BXF6;O95373;Q15437;P55060;Q92973;Q9UBF2;Q9HD26;P49257;Q96QU8;Q9H444;Q8N6T3;Q9Y678;O15069;Q15035;Q8TEX9;Q13765;Q8N1B4;Q9NUU7;P55735;Q13228;A9QM74;Q676U5;Q9HA38;P52948;A6NF01;Q86VQ0;Q9UKX7;Q9BYV8;Q3ZCQ8;O96018;P53680;Q92783;Q9NZ33;Q8NFH5;O14787;O14964;O43615;O75558;O14980;O95486;O94973;Q96PC3;Q7Z6B0;O75382;O75436;P35658;Q9P1Q0;Q2VPB7;P53618;Q9NT62;P60520;Q9H2G9;Q9Y6B7;Q9H009;P53677;O43933;Q99567;P14625;P52292;Q6ULP2;Q9UBQ0;O15127;A6NIH7;Q8WUM4;Q9Y6D6;Q13432;O15397;Q02410;Q9NRA8;Q5HYI7;P63010;Q9H2T7;P49792;Q13505;Q9Y3R5;Q92572;Q9UM54;P61966;P59780;Q9BVL2;Q96HA1;Q96NA2;Q9Y6Q5;Q8N0Z2;O95271;Q9BT04;O00505;O94855;O75381;P35606;Q8NEZ2;Q14662;O60684;Q96KP1;Q8IUD2;Q6PD74;Q96EY5;Q9Y5L0;Q96ED9;Q9UND3;Q7Z3B4;Q9UNH7;Q9UN37;O14662;Q9Y3E7;Q9HD42;P52294;O00161;P49790;Q9UID3;O60645;P53992;Q96N16;Q9HOR1;O60784;O95721;O00189;Q96GV9;Q99698;O00410;Q99747;Q6IS14;Q9NVU7;Q96CW6;O75674;Q96QF0;O95782;A5D8V6}

30248

Pathogen[ P14079] interacts with 349 human partners: {Q13228;Q15629;Q8NFH5;Q96QK1;Q9H9H4;Q6NUQ1;O95373;P0CG08;O75886;Q96CW1;O95070;Q3ZCQ8;O43615;O15069;P35579;O95166;Q7L804;Q9BW27;Q8N4H5;Q6ZVE7;Q14746;Q96NA2;Q96HA1;Q86VNI;Q9UNH7;Q5HYI7;Q969M3;P49257;P61923;O15027;P61970;Q96CF2;Q9Y6Q5;Q96EY5;Q15036;P61966;Q6ULP2;Q6ZVM7;Q9BXS5;P60468;Q9Y3D7;O14828;O43745;Q9NT62;Q9UJY4;Q9UJC3;Q96H20;P83436;Q9UID3;Q1HG44;P31150;P47224;Q13765;A6NIH7;Q9H009;Q96P70;Q9NVU7;O95487;Q1HG43;P982072;Q9BRL7;O95271;Q9H9C1;Q13505;Q8TAG9;Q2VVP7;Q86VS8;Q9UJY5;P57740;O60493;Q8N1F7;Q6IS14;Q86VX9;Q9NPJ8;Q86XT2;P35658;Q9H1K0;P35606;Q9BY43;Q63HQ0;Q9P0U1;Q96ED9;Q9UPM8;Q9H0Y0;Q02410;A6NF01;O00471;Q9BVK6;Q10567;A8CG34;Q9Y6D5;Q9NP79;Q9ULU8;Q96BW9;Q15276;Q9H7P6;P42566;P56377;Q92621;P52294;O60518;Q9Y2T2;Q9Y678;Q92783;Q9Y6B7;Q96B49;Q8TEML1;Q7LBR1;Q9H8T0;Q86TL0;O60684;P59780;O94855;O00189;Q9P1Q0;Q587I9;Q9HD42;O75674;O60645;Q92624;Q8N9S9;O60895;Q99442;Q96D46;Q9NRS6;P53992;Q9Y5J7;Q9UJ41;Q99747;Q9UM54;O60784;Q8IUD2;Q96L92;Q9UPT5;Q7Z3C6;Q9H3E2;O15155;Q4G0F5;O14925;Q9NS69;Q96JE7;Q9Y4P1;Q96N16;Q9H5N1;Q9H269;P33947;Q92572;Q9NZ52;Q96KP1;Q9BVV7;Q9UKX7;Q15363;Q15388;O75843;Q9BUN8;O75558;Q9UHTJ9;O75396;Q9BVL2;O75431;Q9Y2V7;Q7Z7G8;P24390;Q9H2G9;O15504;O00186;Q9HD26;Q9NUP9;O95721;Q5JWR5;Q96CW6;Q15833;P36405;P50542;Q8N609;Q96RL7;Q9WUM0;Q9HC62;P60520;O95782;P12270;Q53GS7;Q9UND3;Q8WTW3;Q53FT3;Q9Y5X2;Q9BXP6;Q96T51;O94829;Q8NC96;Q8TAC9;Q8WYP5;Q969E2;O00410;O96018;O43633;P49755;Q9P299;Q8WUM4;Q9Y6X1;Q9Y6D6;Q9UI26;Q99567;Q9NVZ3;Q8WUX9;Q5JRA6;Q14974;P55060;Q92973;Q96QF0;Q9UBF2;Q96AX1;Q9UP83;Q9H1H9;Q9NZ43;Q9UKK6;A5D8V6;Q8NFH3;O60749;Q9P253;Q96EE3;Q7Z412;Q6PD74;Q9H8V3;Q9HAP6;Q8NEZ2;P37198;Q5VIR6;O14653;Q53HI1;O43264;Q8IWD2;Q9NV70;P60059;P63010;Q15035;O15397;P49790;P53677;Q9BQQ3;Q9HA38;A9QM74;O14662;Q9H115;Q13596;O00505;Q9H6Z4;B7ZAQ6;Q8N4Q1;O94973;Q8N1B4;Q8N2H4;P48444;Q9UN37;Q8TEX9;Q7Z614;O60831;Q96FZ7;P63241;Q99595;Q8N0Z2;Q8N612;P14625;Q96MW5;Q96A65;Q8IYI6;Q13367;Q13432;Q8NFH4;Q8WV19;Q14764;Q9H0R1;O43299;O43747;O60220;Q9UBQ0;Q7Z3B4;O43752;O15078;O14579;Q9Y3E7;O14787;Q9UIA9;P55735;Q8WV92;P49454;Q92543;Q9H9E3;Q9Y3E0;Q99598;O75381;Q9H0V9;Q967U5;P49321;Q9HAV4;Q5SRD1;Q9H5J9;O75351;P49754;Q96JB2;Q9NUS5;O14617;Q9NZZ3;P59074;P62826;O75436;O95486;Q9H444;Q9BRG1;Q9Y3R5;Q12769;O95235;Q96PC3;Q99698;Q9Y2D4;Q9H2T7;Q99816;Q9P2W9;Q96QU8;Q86VQ0;Q9Y5L0;Q9Y5J9;Q9NRA8;Q5SRE5;Q9GZV4;O75694;O00629;P53680;P52292;O75382;Q9BYV8;Q9Y5L4;P54920;O15131;Q9C0E2;Q9BTX1;Q99767;Q9Y587;O60763;Q9H267;Q9H089;Q9UQN3;P52948;Q7Z6B0;Q96GV9;Q9BT04;O43731;Q9H814;Q9HD47}

30249

Pathogen[ P03383] interacts with 226 human partners: {Q96BW9;Q9BVL2;O96018;Q96EE3;O15504;Q13228;Q96CW1;Q8WUM0;Q9UI26;Q9UJY4;Q9HD47;Q7L804;Q8IWIJ2;P49454;Q9Y5J7;P56377;O15126;Q92621;Q14746;P49792;Q8NFH4;Q7Z3C6;Q9UIA9;Q9H9E3;O15397;O14579;Q92572;Q7Z6B0;Q9UP83;A6NF01;P55735;Q96QF0;O94829;P53618;Q8WUX9;P62072;P83436;Q9Y678;Q96RL7;Q8N1B4;P54920;Q96H20;O95487;O43264;P12270;Q96HD26;A8CG34;Q8TAC9;P52948;Q9H7P6;Q9Y3E7;Q9BUN8;P57740;Q9Y4P1;Q10567;Q8NFH5;Q96P70;O14925;Q8WYP5;Q9NZZ3;O43615;O00186;Q9H9C1;Q9GZV4;O75886;Q8N1F7;Q96JB2;Q9H2G9;Q86VX9;Q8NEZ2;Q99816;O95486;Q8IYI6;Q9Y6D6;Q9NT62;O00505;P49321;Q7Z614;Q8TEM1;O60220;Q9NUS5;P49754;Q53GS7;P63241;O00189;Q96KP1;Q13432;P53677;Q15436;Q96D46;Q12769;Q8N2H4;Q8N612;A9QM74;Q96B49;Q9H1H9;P62826;Q8WTW3;Q6PD74;Q99567;Q96L92;O15069;Q15629;Q9Y3R5;Q9BW27;P55060;P52292;Q99747;O75558;Q96N16;Q9H8T0;Q9UK41;Q7LBR1;Q86VQ0;Q9H2T7;O75843;O43633;Q9Y5J6;Q9Y2T2;Q92973;P63010;O14980;O43747;Q15437;Q9HAV4;O94855;O00471;O15078;Q9UJY5;Q15388;Q9BXP6;Q9H444;Q5HYI7;O75381;Q9H9H4;Q13765;O43745;Q676U5;P14625;O95782;Q9BYV8;Q9BTX1;Q86V58;Q9C0E2;Q9UBF2;Q9BRG1;Q8N0Z2;O14787;Q14974;Q96ED9;O43299;Q9HD42;Q9P0U1;O15027;O60784;Q5SRE5;O15131;Q92783;O75436;P35658;Q9P1Q0;O15127;Q9H009;Q96HA1;Q96QK1;Q9H6Z4;Q96JE7;Q13367;Q53FT3;Q6ULP2;Q9UND3;Q9HC62;P53992;Q96QU8;A6NIH7;O60645;Q8WUM4;O43752;O60518;Q9NRA8;Q02410;O95373;P35579;Q6NUQ1;O60831;P61970;P37198;Q9UKX7;O00161;Q9BXS5;O95271;Q8IUD2;Q9UBQ0;Q92624;Q9UPT5;O94973;Q9Y5L0;O00629;Q9Y5J9;O14964;Q63HQ0;Q7Z3B4;Q9BT04;Q86VNI;Q9UN37;P52294;P49790;Q14764;Q96EY5;O75694;O14910;Q9NPJ8;Q96GV9;Q96N16;Q8NFH3;O00410;Q2VVP7;Q15276;Q5VIR6;Q9UKK6;Q9H814;Q9NVU7;Q96CW6;Q9NZ52;Q13505}

30250

Pathogen[ P03410] interacts with 372 human partners: {Q8N4H5;Q99567;Q6PD74;Q9H0Y0;Q8NC96;Q9Y6Q5;Q5SRD1;P49321;Q9UPM8;Q7Z3B4;O00203;Q9BW27;O96018;Q7L804;Q9Y5L4;O95782;Q96PC3;Q96CW1;Q86VQ0;O14910;Q9H267;Q9H2G9;Q9UJC3;Q8NAA4;Q6ZVM7;Q9H1M0;O14828;Q14974;P62072;A9QM74;Q15833;Q96B49;O43633;O00505;A6NF01;Q7Z614;Q9NZ43;Q9H0V9;Q9UPT5;Q9BXS5;Q96L92;Q99442;Q9UJ41;Q9BQQ3;Q15388;P53680;Q96JB2;Q8TAC9;Q9H7P6;Q9UP83;Q9H115;Q86XT2;Q9UKX7;O60896;P60468;P49257;Q9Y2J0;Q9H9H4;P60059;Q13596;O60895;Q1HG43;O94855;Q9Y4P1;Q9NZ52;Q9NVZ3;Q9NP79;Q9NUS5;P52294;Q13445;Q8NFH4;B7ZAQ6;O75351;P53992;Q9Y2V7;Q9H1H9;Q9P299;O75674;P55060;O75382;O43747;Q9Y5J7;Q9H3E2;O75843;Q9ULV0;O60749;Q13505;O15069;Q96QU8;P60520;Q5SRE5;P48444;Q96P70;P52948;O15504;Q8N1B4;Q10567;P14625;Q969E2;P35606;Q7Z6B0;Q9NRA8;P36405;Q92572;O00159;P33947;O60645;Q9P2W9;Q9H8T0;Q9HD47;O75694;O14662;P59074;Q96CW6;Q92783;Q9BY43;Q99767;O14579;Q96QK1;P35579;O43299;Q9NS69;Q9NUP9;Q53FT3;Q1HG44;Q96N16;Q86VS8;O75381;Q86VNI;Q9P253;Q96HA1;Q9Y3E0;Q9UMY4;Q6NUQ1;Q8N2H4;Q8TEX9;Q9BYV8;O14617;Q96BW9;Q9UJY5;Q9Y587;Q9Y6B7;Q9H609;Q02410;Q9H009;Q8WU76;Q9UMZ2;O43264;Q8N1F7;A6NIH7;O95249;Q9HAP6;P49454;O95219;A5D8V6;Q9UBQ0;Q9UNH7;Q9HD26;O14925;Q99595;O95166;Q53HI1;Q99816;Q9UM54;Q9UHTJ9;Q96MW5;Q92624;Q86TL0;Q9UMR2;Q9BT04;Q9Y3E7;Q15436;Q8WUX9;Q9BVK6;Q8NEZ2;O60763;Q9Y5L0;P49790;Q9Y6X1;Q9H814;Q14764;Q9UQN3;Q8IUD2;Q9HC62;O75396;P12270;Q969M3;Q15437;Q9NUU7;P62826;O00629;Q8TAG9;O60684;Q3ZCQ8;P0CG08;Q9BUN8;P35658;Q96ED9;O15155;Q92973;Q9HD42;O14787;Q9Y2T2;Q9NP61;Q9UN37;O95271;Q96A65;Q9Y678;Q8NFH5;O94829;Q9UND3;Q15629;O43615;O95486;Q8TEM1;O15127;Q5HYI7;Q15049;Q8WV92;Q15363;Q9BXP6;Q15036;O15078;Q9Y3D7;Q676U5;Q9H444;O60784;Q9NZZ3;Q9Y6D6;Q9H089;Q9H1K0;Q8N9S9;Q9ULU8;Q9NVU7;P53618;Q9NT62;O75436;P61923;Q9Y6D5;Q96EE3;Q9H173;Q96JE7;Q9BRG1;P47224;Q8WTW3;Q8N612;Q9NRS6;P49754;Q96FZ7;Q9H0R1;Q99598;P53677;O75558;Q96T51;Q9HCU5;P24390;Q9Y5J6;Q9P1Q0;P63010;Q9NPJ8;Q9H2T7;Q4G0F5;Q96QF0;Q96D46;Q9Y5J9;P50542;Q14746;Q9HA38;Q96KP1;Q8WUM0;Q99698;Q86VX9;Q63HQ0;Q7Z7G8;Q6ULP2;O43752;P63241;A8CG34;Q96GV9;Q9P0U1;O15027;Q587I9;O60220;Q9Y2D4;Q9H9C1;O146

53;Q9NV70;Q8N0Z2;Q13228;Q96EY5;Q15035;O00410;P59780;Q9UI26;P83436;O43745;Q9H8V3;Q5VI  
R6;O43731;Q9GZV4;Q2VPB7;Q6ZVE7;P57740;P55735;Q9H5N1;O00186;O95721;Q13367;Q96NA2;O608  
31;Q13765;P31150;Q12769;Q7Z3C6;P52292;Q13432;Q9HAV4;Q96H20;P61966;Q7Z3U7;Q9UIA9;O151  
26;Q96CF2;Q8WV19;Q95562;Q8WUM4;Q9H6Z4;Q9H269;O15131;Q8WYP5;Q8NFB3;P42566;O00471;O001  
61;Q9BVL2;Q7LBR1;Q5JWR5;O94973;Q9H9E3;P56377;Q8N4Q1;O15397;Q9UID3;Q9UKK6;Q99747;Q925  
43;Q9BTX1;Q8IWI2;O60518;Q92621;Q9C0E2;Q8IYI6;Q5JRA6;O75886;Q9UJY4;O60493;O95070;O149  
80;O95373;O95487;P49792;Q15276;Q9Y5X2;Q9UBF2;Q96AX1;O75431;Q9BRL7;P61970;P54920;Q6IS  
14;Q53GS7}

30251 Pathogen[ P14075] interacts with 229 human

partners: {P49321;Q9H6Z4;Q9UI26;Q96RL7;Q9P0U1;P52292;O15131;O14925;Q13505;Q9C0E2;Q9UJ  
Y4;Q02410;Q14746;Q9H2G9;Q9BYV8;Q96JB2;Q96EY5;Q9H814;Q53FT3;Q14764;Q9Y5J9;Q96JE7;Q96B  
49;Q96D46;Q9H1H9;O60645;O15069;O96018;Q8N1B4;O94973;P62072;Q8N2H4;Q9H9E3;Q96CW1;O755  
58;O75886;O00186;Q96P70;Q96BW9;P61970;Q8N612;Q9H2T7;O14787;O43752;Q9NT62;O15127;Q7LB  
R1;Q9H444;A8CG34;Q96GV9;Q96N16;P57740;Q96KP1;Q8WUX9;Q8WUM4;Q15388;Q9Y2T2;Q8WYP5;Q9UB  
F2;Q6NUQ1;Q53GS7;Q92973;P49792;Q92783;Q9Y4P1;Q8N1F7;Q9NP79;Q99747;Q86VX9;Q9NZ52;Q9UB  
Q0;O00629;Q9NPJ8;P54920;Q86VN1;Q676U5;Q9BT04;Q96NA2;Q86VQ0;Q9UKX7;Q9HD26;Q9GZV4;O153  
97;Q7Z614;Q8IUD2;Q9UK41;O15027;Q9H9C1;Q15629;P63241;O15126;P35658;Q9Y6D6;P12270;Q9HA  
V4;A6NF01;P53992;Q9NVU7;Q92621;Q8NEZ2;Q8N0Z2;P55735;O00471;Q96H20;Q5HYI7;O75381;Q9Y3  
E7;Q92624;Q9H9H4;Q9BTX1;O00505;Q96HA1;O60831;O14980;Q9BW27;O00189;P52294;O95487;Q9H8  
T0;O15078;O14964;Q9UP83;P49754;Q15437;Q7Z6B0;O14910;O95373;Q9UHJ9;Q7L804;O60518;Q8TE  
M1;P53618;Q9NPJ8;Q9UND3;Q9HC62;Q13765;Q6IUD2;O95782;Q9BUN8;Q96EE3;Q8IWI2;P37198;O602  
20;O43745;O00410;Q5SRE5;P62826;Q9NZZ3;O43747;Q9UIA9;Q1HG44;Q9HD47;P35579;Q15436;Q925  
72;Q9Y3R5;Q13228;Q5VIR6;O94829;O75436;O00161;Q9P1Q0;Q8NFB3;P63010;Q9H009;Q96QU8;Q9Y6  
78;Q9BXF6;A9QM74;O15504;Q9H7P6;Q96QF0;Q6ULP2;O75843;Q8TAC9;Q9HD42;A6NIH7;Q9BRG1;Q995  
67;P56377;Q9Y5L0;Q9Y5J7;Q12769;Q2VPB7;Q8IYI6;Q86VS8;O94855;Q9BXS5;Q9NRA8;Q14974;Q9BV  
L2;Q53HI1;P49790;Q99816;Q8WUM0;O43264;O95271;P14625;P49454;Q13432;Q75694;O95486;Q7Z3  
B4;Q9Y5J6;Q8NFB4;Q9UKK6;Q10567;P83436;P55060;Q9NS69;Q8NFB5;Q9NUS5;Q9UJY5;Q13367;Q7Z3  
C6;O43615;O60784;Q96ED9;Q8WTW3;Q6PD74;Q9UN37;P52948;Q96L92;Q15276;O43299;Q96CW6;Q9UP  
T5;Q96QK1;O14579}

30252 Pathogen[ P0C206] interacts with 341 human

partners: {O95271;Q53GS7;Q7Z3C6;P59074;Q96EE3;O14964;Q9BRG1;O14662;O60645;P53680;P630  
10;Q92621;Q9BVK6;Q4G0F5;Q96L92;Q9NUP9;O14579;Q8WYP5;Q63HQ0;O15131;O43933;O15127;Q9Y5  
L4;Q9Y5L0;Q9Y678;Q15437;Q8WUX9;Q9Y6B7;Q9UN37;Q587I9;Q9UM54;Q9Y5J6;Q9GZV4;Q8N9S9;P834  
36;O94973;Q8NEZ2;P49790;O14828;Q6IS14;Q9H444;Q8N6T3;Q7LBR1;Q5SRE5;O75396;Q8NFB5;Q134  
32;Q9Y2V7;Q9NUU7;Q9Y6Q5;Q92572;O60784;Q9UKK6;Q9Y3E7;Q9UNH7;Q8NC96;P53618;Q9P299;O437  
47;Q9BXF6;Q9H9E3;O60518;O94855;Q9UHJ9;Q10567;O14653;P54920;Q6NUQ1;Q9NVU7;Q96B49;Q9NR  
S6;O95721;Q9Y4P1;O75381;Q9BT04;Q9Y6D6;A9QM74;O75382;Q7Z3B4;Q9Y2J0;Q13228;Q2VPB7;O437  
52;Q99598;Q9HOR1;O00629;O60684;Q9H8T0;P49754;Q9H1K0;P61966;Q14974;Q9HC62;Q96HA1;Q9UQ  
N3;O95070;Q96QU8;O00505;Q96T51;O60220;Q96KP1;Q86VQ0;Q86VN1;O60493;Q96P70;P49755;Q5JR  
A6;Q99698;Q9UJY4;O15397;Q96JB2;O60831;Q8IUD2;P55735;Q9Y5J9;O94829;Q9Y2T2;Q15035;Q147  
46;Q13596;P62826;Q99816;Q5HYI7;P57740;Q96GV9;P49454;P49321;O75558;Q9Y3R5;Q92783;Q9H1  
H9;Q969E2;P47224;Q1HG44;P50542;Q96A65;Q92973;Q15036;O00410;Q96N16;Q8N4Q1;Q9HAV4;O432  
99;Q9Y5J7;Q5SRD1;Q86VS8;Q9NP61;Q9UK41;Q9P1Q0;Q9Y587;Q92624;Q96ED9;Q9H9H4;Q9NPJ8;O001  
61;Q96D46;P59780;Q8N2H4;P53677;Q8WUM0;Q9UBQ0;O14787;O43615;Q9H7P6;Q3ZCQ8;Q96QF0;Q997  
67;P49792;O60749;Q8TEM1;Q9H814;Q1HG43;Q9UKX7;Q9HD47;Q9H089;Q9UPM8;Q9ULB8;A5D8  
V6;Q6ULP2;Q9BXS5;O15155;O96018;Q9Y3D7;O95486;Q969M3;Q8WTW3;Q5VIR6;Q9NS69;Q96H20;Q6ZV  
E7;Q9NZ52;Q53HI1;Q9Y6D5;O95373;Q9UPT5;P35606;Q9H3E2;O75694;O00159;Q7Z7G8;P33947;Q9UJ  
Y5;Q96JE7;Q86XT2;Q86VX9;P24390;P49257;Q8TEX9;O95487;O60763;Q96CW1;Q9BTX1;O15078;Q9BU  
N8;Q9P0U1;O43633;Q8WU76;Q96AX1;P48444;Q6PD74;O14925;Q9BYV8;P35579;A6NF01;O15069;Q9HA  
38;Q13505;Q9H8V3;Q15388;O14910;P60520;Q9H2T7;Q7Z614;P31150;Q8N612;Q96CF2;O95782;Q9H6  
Z4;Q9UJ41;Q99567;Q9H5N1;P55060;O43731;P36405;Q9H2G9;Q8NFB4;Q99747;A6NIH7;Q8IYI6;Q8WU  
M4;P62072;P0CG08;Q9BY43;Q9H009;P42566;Q9UID3;P63241;Q676U5;Q9UBF2;O75436;Q86TL0;Q156  
29;O14617;Q9P253;O75843;Q9HD42;Q96NA2;O15504;Q9NP79;A8CG34;Q96QK1;Q9UIA9;Q9NZZ3;Q9C0  
E2;Q12769;Q9UJC3;Q7L804;Q9UMR2;P53992;Q96FZ7;Q15363;Q9NT62;Q9NV70;O75886;Q9UND3;Q9BQ  
Q3;Q8N1B4;O75351;Q7Z6B0;Q8TAC9;Q8NFB3;P52294;Q8N6H7;O15126;Q8WV92;Q96PC3;O15027;Q158  
33;Q8N1F7;Q8N0Z2;O75674;O43264;O00189;Q13765;O43745;Q9H9C1;Q8N4H5;Q53FT3;P61970;Q9HD  
26;P52292;P35658;O95166;Q9H267;O00471;Q8IWI2;Q13367;Q9P2W9;Q96RL7;Q15276;Q8TAG9;Q9BW  
27;Q96EY5;Q5JWR5;Q9BVL2;Q96CW6;P56377;Q9UI26;Q14764;O00186;P61923;P12270;Q9NRA8;Q9NU  
S5;B7ZAQ6;P14625;Q96BW9;Q9BRL7;Q02410;Q15436}

30253 Pathogen[ P03363] interacts with 262 human

partners: {O60763;Q53FT3;Q96D46;P49754;Q86VS8;O14787;Q9UID3;P49454;Q53GS7;Q7Z3B4;Q929  
73;Q9GZV4;Q9Y2T2;O43933;Q9UNH7;Q7L804;O60645;O60684;Q96ED9;Q5SRE5;Q99598;Q9NRA8;Q86V  
Q0;P12270;Q9BYV8;Q9H9C1;Q13367;Q8NFB4;Q9UND3;P49321;Q9UP83;Q92543;O43747;Q9HAV4;Q9UJ  
Y4;P35579;P61970;P31150;P48444;O75886;Q63HQ0;Q96L92;O15078;Q8N1B4;Q969Q5;Q9Y3R5;Q132  
28;A9QM74;Q8WYP5;Q9H444;O95219;Q8IYI6;Q92783;Q8NFB3;Q9NVU7;O14980;O00471;Q12769;O004  
10;Q96QK1;Q96A65;Q9Y678;P53677;O14910;Q9H2T7;O00505;O60784;Q15388;O14925;Q9NZ52;Q9NU  
U7;O43264;O75436;Q6NUQ1;A6NF01;Q96P70;P54920;Q9H9E3;O75558;Q15436;Q9NUS5;A8CG34;P834  
36;Q8WU76;Q9NZZ3;Q9UKX7;O15069;Q9Y6B7;O14579;Q9C0E2;Q3ZCQ8;Q13765;O95486;Q9NT62;P536  
18;P60520;Q9H20;Q9UMY4;Q9BXS5;O00629;O60493;Q9HD47;Q96T51;Q9P299;O94973;P61923;Q9P1  
Q0;Q8N0Z2;Q8NAA4;O60749;Q9UJ41;Q14746;O75351;Q9P2W9;Q96BW9;Q92572;O43615;Q8WUM0;Q9BV  
L2;Q96QU8;Q99567;Q5JWR5;Q9UN37;Q6ULP2;Q5VWJ9;Q8WUM4;Q9HOR1;Q86VN1;Q99698;Q9BRG1;O957  
21;Q9H267;Q15035;Q13432;Q96KP1;Q9HC62;Q7Z3C6;Q02410;Q9Y5J7;Q9P0U1;Q9UK41;O75381;Q8TE  
X9;Q86VX9;P63010;O75674;Q9Y3E7;Q9NPJ8;Q7LBR1;O95271;Q96HA1;P49792;Q92624;P35658;Q9BT  
04;Q14974;Q9HTW3;Q9H8T0;O75694;Q9UKK6;P49790;O00189;Q9Y5L0;O14964;O00186;Q66EY5;Q7Z6  
14;O75382;P57740;Q9BXF6;Q9UBQ0;Q5VIR6;Q6FIF0;Q9UMR2;O95782;Q9BTX1;Q9H2G9;O94829;A6NI  
H7;Q8WV92;Q8IWI2;P63241;Q5HYI7;O15126;P35606;Q96RL7;Q8NEZ2;Q96GV9;O15131;O14662;Q2VP

B7;Q9H6Z4;Q96NA2;Q9UBF2;Q8N612;Q6PD74;P53992;O75843;Q9UI26;O95487;Q99816;O95373;P52948;Q13596;O15127;O43745;Q9Y4P1;Q9UQN3;O15504;Q9H7P6;Q9H1H9;Q6IS14;O00161;P55060;Q9H009;Q7Z6B0;Q9NP79;Q9NS69;Q9Y6D6;Q9NUP9;P37198;Q676U5;P62826;Q9H9H4;P52292;Q8N1F7;Q9UY5;O43752;Q96N16;Q92621;Q14764;Q8NFH5;O60518;Q96018;Q8IUD2;Q95166;P55735;Q99767;Q99747;Q9HD26;Q9H814;O94855;Q8WUX9;Q15276;Q10567;Q9BW27;Q9UIA9;Q96CW6;Q9HD42;O15397;Q9UPT5;Q96QF0;Q96CW1;Q15833;O43299;P52294;Q9UPM8;Q96CF2;Q4G0F5;A5D8V6;Q9UJC3;Q96JB2]

30254 [Cluster 2751]GO:0016045+P biological\_process [name] detection of bacterium [def] "The series of events in which a stimulus from a bacterium is received and converted into a molecular signal." [GOC

30255 Pathogen[ Q2Q067] interacts with 1 human partners:{Q86W56}

30256 Pathogen[ P0C214] interacts with 2 human partners:{Q9NPP4;Q86W56}

30257 Pathogen[ P03346] interacts with 2 human partners:{Q9NPP4;Q86W56}

30258 Pathogen[ Q85601] interacts with 1 human partners:{Q86W56}

30259 Pathogen[ P14079] interacts with 3 human partners:{Q86W56;Q9Y239;Q9NPP4}

30260 Pathogen[ P03383] interacts with 1 human partners:{Q86W56}

30261 Pathogen[ P03410] interacts with 3 human partners:{Q9Y239;Q9NPP4;Q86W56}

30262 Pathogen[ P14075] interacts with 1 human partners:{Q86W56}

30263 Pathogen[ P0C206] interacts with 1 human partners:{Q86W56}

30264 Pathogen[ P03363] interacts with 2 human partners:{Q86W56;Q9NPP4}

30265 [Cluster 2752]GO:0046718+P biological\_process [name] entry of virus into host cell [def] "The process in which a virion enters a host cell, including virion attachment and penetration." [ISBN

30266 Pathogen[ Q2Q067] interacts with 5 human partners:{Q96J02;P63172;P49790;O00505;Q9UID6}

30267 Pathogen[ P0C214] interacts with 7 human partners:{Q96J02;Q9UID6;O00308;Q9H0M0;P49790;O00505;P63172}

30268 Pathogen[ P03346] interacts with 7 human partners:{Q96J02;O00505;P63172;P49790;Q9H0M0;Q9UID6;O00308}

30269 Pathogen[ Q85601] interacts with 5 human partners:{Q96J02;P63172;Q9UID6;O00505;P49790}

30270 Pathogen[ P14079] interacts with 5 human partners:{P63172;Q9UID6;P49790;Q96J02;O00505}

30271 Pathogen[ P03383] interacts with 4 human partners:{P63172;O00505;Q9UID6;P49790}

30272 Pathogen[ P03410] interacts with 4 human partners:{O00505;P63172;P49790;Q9UID6}

30273 Pathogen[ P14075] interacts with 4 human partners:{Q9UID6;P63172;O00505;P49790}

30274 Pathogen[ P0C206] interacts with 6 human partners:{Q9UID6;P49790;O00308;Q96J02;O00505;P63172}

30275 Pathogen[ P03363] interacts with 6 human partners:{O00505;P63172;P49790;O00308;Q9H0M0;Q9UID6}

30276 [Cluster 2753]GO:0010332+P biological\_process [name] response to gamma radiation [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a gamma radiation stimulus. Gamma radiation is a form of electromagnetic radiation (EMR) or light emission of a specific frequency produced from sub-atomic particle interaction, such as electron-positron annihilation and radioactive decay. Gamma rays are generally characterized as EMR having the highest frequency and energy, and also the shortest wavelength, within the electromagnetic radiation spectrum." [GOC

30277 Pathogen[ Q2Q067] interacts with 8 human partners:{P01106;O15350;Q96017;P55212;O00255;Q13426;Q03468;Q9BXW9}

30278 Pathogen[ P0C214] interacts with 9 human partners:{P55212;O15350;Q8IWE4;Q13426;Q96017;Q9BXW9;P01106;Q03468;O00255}

30279 Pathogen[ P03346] interacts with 11 human partners:{Q96017;Q13426;O15350;P55212;Q8IWE4;P01106;Q03468;O00255;P51587;Q9BXW9;O43543}

30280 Pathogen[ Q85601] interacts with 10 human partners:{P01106;Q96017;Q9BXW9;Q13426;Q03468;O00255;O15350;Q8IWE4;P55212;P51587}

30281 Pathogen[ P14079] interacts with 12 human partners:{P41238;P51587;Q9BXW9;O15350;P55212;P01106;O43543;Q03468;O00255;Q13426;P49917;Q8IWE4}

30282 Pathogen[ P03383] interacts with 9 human partners:{P55212;P01106;Q9BXW9;Q8IWE4;Q03468;Q13426;O15350;O00255;Q96017}

30283 Pathogen[ P03410] interacts with 12 human partners:{Q8IWE4;P01106;Q9BXW9;P41238;Q03468;P51587;Q96017;Q13426;O43543;O15350;O00255;P55212}

30284 Pathogen[ P14075] interacts with 8 human partners:{P55212;P01106;Q03468;O00255;Q96017;O15350;Q13426;Q9BXW9}

30285 Pathogen[ P0C206] interacts with 13 human partners:{Q96017;P51587;O00255;P55212;Q03468;Q8IWE4;P49917;Q13426;O15350;O43543;P01106;P41238;Q9BXW9}

30286 Pathogen[ P03363] interacts with 6 human partners:{Q9BXW9;P01106;Q96017;P55212;Q13426;Q03468}

30287 [Cluster 2754]GO:0045084+P biological\_process [name] positive regulation of interleukin-12 biosynthetic process [def] "Any process that activates or increases the frequency, rate or extent of the chemical reactions and pathways resulting in the formation of interleukin-12." [GOC

30288 Pathogen[ Q2Q067] interacts with 3 human partners:{Q04864;Q04206;P10914}

30289 Pathogen[ P0C214] interacts with 3 human partners:{Q04206;P10914;Q04864}  
30290 Pathogen[ P03346] interacts with 3 human partners:{Q04206;Q04864;P10914}  
30291 Pathogen[ Q85601] interacts with 3 human partners:{Q04864;P10914;Q04206}  
30292 Pathogen[ P14079] interacts with 1 human partners:{P10914}  
30293 Pathogen[ P03383] interacts with 3 human partners:{P10914;Q04864;Q04206}  
30294 Pathogen[ P03410] interacts with 3 human partners:{Q04206;Q04864;P10914}  
30295 Pathogen[ P14075] interacts with 3 human partners:{Q04206;P10914;Q04864}  
30296 Pathogen[ P0C206] interacts with 3 human partners:{P10914;Q04206;Q04864}  
30297 Pathogen[ P03363] interacts with 3 human partners:{Q04206;P10914;Q04864}  
30298 [Cluster 2755]GO:0033147+P biological\_process [name] negative regulation of intracellular estrogen receptor signaling pathway [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the activity of an intracellular estrogen receptor signaling pathway." [GOC  
30299 Pathogen[ Q2Q067] interacts with 5 human partners:{Q13033;Q8N1N5;Q63ZY3;Q8N895;Q99623}  
30300 Pathogen[ P0C214] interacts with 4 human partners:{Q13033;Q99623;Q8N895;Q63ZY3}  
30301 Pathogen[ P03346] interacts with 6 human partners:{Q8N1N5;Q8N895;Q13033;Q63ZY3;Q99623;Q75593}  
30302 Pathogen[ Q85601] interacts with 4 human partners:{Q8N895;Q99623;Q63ZY3;Q13033}  
30303 Pathogen[ P14079] interacts with 5 human partners:{Q99623;Q8N895;Q13033;Q8N1N5;Q63ZY3}  
30304 Pathogen[ P03383] interacts with 5 human partners:{Q8N1N5;Q8N895;Q63ZY3;Q13033;Q99623}  
30305 Pathogen[ P03410] interacts with 5 human partners:{Q8N1N5;Q99623;Q13033;Q8N895;Q63ZY3}  
30306 Pathogen[ P14075] interacts with 5 human partners:{Q63ZY3;Q8N1N5;Q99623;Q8N895;Q13033}  
30307 Pathogen[ P0C206] interacts with 5 human partners:{Q99623;Q8N895;Q8N1N5;Q63ZY3;Q13033}  
30308 Pathogen[ P03363] interacts with 5 human partners:{Q99623;Q63ZY3;Q13033;Q8N1N5;Q8N895}  
30309 [Cluster 2756]GO:0051216+P biological\_process [name] cartilage development [def] "The process whose specific outcome is the progression of the cartilage over time, from its formation to the mature structure. Cartilage is a connective tissue dominated by extracellular matrix containing collagen type II and large amounts of proteoglycan, particularly chondroitin sulfate." [http  
30310 Pathogen[ Q2Q067] interacts with 13 human partners:{O43365;P35712;Q05516;P09017;P35548;P14651;Q9UPW6;P78337;Q07687;P04818;P11474;P35711;P54821}  
30311 Pathogen[ P0C214] interacts with 12 human partners:{O43365;P04818;P11474;P78337;P31249;P35711;P14651;Q07687;Q9UPW6;P35712;P35548;Q05516}  
30312 Pathogen[ P03346] interacts with 16 human partners:{P31249;P54821;Q99811;P78337;Q9UPW6;P35548;Q70SY1;P23759;O43365;P09017;Q05516;P35712;P11474;P35711;P14651;Q9UJU5}  
30313 Pathogen[ Q85601] interacts with 11 human partners:{Q9UPW6;P35712;P78337;P35711;P35548;P11474;Q05516;P31249;P14651;O43365;Q07687}  
30314 Pathogen[ P14079] interacts with 12 human partners:{Q9UPW6;P35711;P78337;P11474;P35712;Q05516;P57679;P31249;O43365;Q07687;P04818;P14651}  
30315 Pathogen[ P03383] interacts with 11 human partners:{P35712;Q9UPW6;Q07687;O43365;Q05516;P78337;P31249;P11474;P35548;P35711;P14651}  
30316 Pathogen[ P03410] interacts with 10 human partners:{P35712;P14651;P31249;Q9UPW6;Q07687;P35548;P04818;P11474;O43365;P78337}  
30317 Pathogen[ P14075] interacts with 10 human partners:{P78337;P11474;P35548;P31249;O43365;Q07687;P35711;Q9UPW6;P35712;Q05516}  
30318 Pathogen[ P0C206] interacts with 13 human partners:{Q07687;O43365;Q05516;P54821;P14651;P78337;P35711;P35548;Q9UPW6;P04818;P35712;P11474;P31249}  
30319 Pathogen[ P03363] interacts with 16 human partners:{P35711;O43365;P14651;P11474;P35548;P31249;P54821;P23759;P35712;Q99811;P09017;Q9UJU5;Q07687;P78337;Q05516;Q9UPW6}  
30320 [Cluster 2757]GO:0070307+P biological\_process [name] lens fiber cell development [def] "The process whose specific outcome is the progression of a lens fiber cell over time, from its formation to the mature structure. Cell development does not include the steps involved in committing a cell to a lens fiber cell fate. A lens fiber cell is any of the elongated, tightly packed cells that make up the bulk of the mature lens in a camera-type eye." [GOC  
30321 Pathogen[ Q2Q067] interacts with 1 human partners:{P08670}  
30322 Pathogen[ P0C214] interacts with 2 human partners:{Q13515;P08670}  
30323 Pathogen[ P03346] interacts with 3 human partners:{Q13515;P07316;P08670}  
30324 Pathogen[ Q85601] interacts with 2 human partners:{P08670;Q13515}  
30325 Pathogen[ P14079] interacts with 3 human partners:{P07316;Q13515;P08670}  
30326 Pathogen[ P03383] interacts with 2 human partners:{Q13515;P08670}



30327 Pathogen[ P03410] interacts with 3 human partners:{Q13515;P08670;P07316}  
30328 Pathogen[ P14075] interacts with 2 human partners:{Q13515;P08670}  
30329 Pathogen[ P0C206] interacts with 3 human partners:{Q13515;P07316;P08670}  
30330 Pathogen[ P03363] interacts with 3 human partners:{P07316;P08670;Q13515}  
30331 [Cluster 2758]GO:0035308+P biological\_process [name] negative regulation of protein  
dephosphorylation [def] "Any process the stops, prevents, or reduces the frequency,  
rate or extent of removal of phosphate groups from a protein." [GOC  
30332 Pathogen[ Q2Q067] interacts with 4 human partners:{P62258;Q15257;P31946;P78318}  
30333 Pathogen[ P0C214] interacts with 3 human partners:{P78318;Q15257;P31946}  
30334 Pathogen[ P03346] interacts with 4 human partners:{P62258;Q15257;P31946;P78318}  
30335 Pathogen[ Q85601] interacts with 4 human partners:{P31946;P62258;Q15257;P78318}  
30336 Pathogen[ P14079] interacts with 3 human partners:{P31946;P62258;P78318}  
30337 Pathogen[ P03383] interacts with 4 human partners:{P31946;Q15257;P78318;P62258}  
30338 Pathogen[ P03410] interacts with 4 human partners:{P62258;P78318;Q15257;P31946}  
30339 Pathogen[ P14075] interacts with 4 human partners:{Q15257;P78318;P31946;P62258}  
30340 Pathogen[ P0C206] interacts with 4 human partners:{P78318;P31946;P62258;Q15257}  
30341 Pathogen[ P03363] interacts with 4 human partners:{P62258;P31946;P78318;Q15257}  
30342 [Cluster 2759]GO:0031115+P biological\_process [name] negative regulation of  
microtubule polymerization [def] "Any process that stops, prevents, or reduces the  
frequency, rate or extent of microtubule polymerization." [GOC  
30343 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9BTW9;Q15691}  
30344 Pathogen[ P0C214] interacts with 2 human partners:{Q9BTW9;Q15691}  
30345 Pathogen[ P03346] interacts with 2 human partners:{Q15691;Q93045}  
30346 Pathogen[ Q85601] interacts with 2 human partners:{Q9BTW9;Q15691}  
30347 Pathogen[ P14079] interacts with 3 human partners:{Q15691;Q9BTW9;Q93045}  
30348 Pathogen[ P03383] interacts with 1 human partners:{Q15691}  
30349 Pathogen[ P03410] interacts with 3 human partners:{Q15691;Q9BTW9;Q93045}  
30350 Pathogen[ P14075] interacts with 1 human partners:{Q15691}  
30351 Pathogen[ P0C206] interacts with 3 human partners:{Q9BTW9;Q15691;Q93045}  
30352 Pathogen[ P03363] interacts with 3 human partners:{Q15691;Q93045;Q9BTW9}  
30353 [Cluster 2760]GO:0019538+P biological\_process [name]protein metabolic process  
[def] "The chemical reactions and pathways involving a specific protein, rather than of  
proteins in general. Includes protein modification." [GOC  
30354 Pathogen[ Q2Q067] interacts with 2 human partners:{Q96P71;P28838}  
30355 Pathogen[ P0C214] interacts with 3 human partners:{P28838;Q9UJ68;Q96P71}  
30356 Pathogen[ P03346] interacts with 3 human partners:{Q96P71;Q96FW1;Q9Y6R0}  
30357 Pathogen[ Q85601] interacts with 1 human partners:{Q96P71}  
30358 Pathogen[ P14079] interacts with 6 human  
partners:{P28838;Q95816;Q96P71;Q8NDH3;Q9UJ68;Q96FW1}  
30359 Pathogen[ P03383] interacts with 2 human partners:{P28838;Q96P71}  
30360 Pathogen[ P03410] interacts with 6 human  
partners:{Q96FW1;Q8NDH3;Q95816;P28838;Q9UJ68;Q96P71}  
30361 Pathogen[ P14075] interacts with 3 human partners:{Q96FW1;P28838;Q96P71}  
30362 Pathogen[ P0C206] interacts with 6 human  
partners:{Q96P71;P28838;Q95816;Q96FW1;Q9UJ68;Q8NDH3}  
30363 Pathogen[ P03363] interacts with 3 human partners:{Q96P71;Q9Y6R0;Q96FW1}  
30364 [Cluster 2761]GO:0032886+P biological\_process [name] regulation of microtubule-based  
process [def] "Any process that modulates the frequency, rate or extent of any cellular  
process that depends upon or alters the microtubule cytoskeleton." [GOC  
30365 Pathogen[ Q2Q067] interacts with 4 human partners:{Q95359;Q75122;Q75410;Q9Y316}  
30366 Pathogen[ P0C214] interacts with 4 human partners:{Q9Y316;Q95359;Q75122;Q75410}  
30367 Pathogen[ P03346] interacts with 5 human  
partners:{Q75410;Q95359;Q9Y316;Q8N960;Q75122}  
30368 Pathogen[ Q85601] interacts with 4 human partners:{Q75122;Q9Y316;Q75410;Q95359}  
30369 Pathogen[ P14079] interacts with 7 human  
partners:{Q9Y316;Q95359;Q9Y6A5;Q8N960;Q60610;Q75410;Q75122}  
30370 Pathogen[ P03383] interacts with 2 human partners:{Q75410;Q9Y316}  
30371 Pathogen[ P03410] interacts with 7 human  
partners:{Q8N960;Q95359;Q60610;Q9Y316;Q9Y6A5;Q75410;Q75122}  
30372 Pathogen[ P14075] interacts with 2 human partners:{Q75410;Q9Y316}  
30373 Pathogen[ P0C206] interacts with 6 human  
partners:{Q95359;Q9Y316;Q75122;Q75410;Q9Y6A5;Q8N960}  
30374 Pathogen[ P03363] interacts with 4 human partners:{Q9Y316;Q75410;Q95359;Q8N960}  
30375 [Cluster 2762]GO:0010388+P biological\_process [name] cullin deneddylation [def] "The  
modification of cullins by removal of ubiquitin-like protein NEDD8 (RUB1)." [PMID  
30376 Pathogen[ Q2Q067] interacts with 7 human  
partners:{Q9UNS2;Q7L5N1;Q92905;Q99627;Q9UBW8;P61201;Q9BT78}  
30377 Pathogen[ P0C214] interacts with 8 human  
partners:{P61201;Q9UNS2;Q9BT78;Q92905;Q9H9Q2;Q99627;Q9UBW8;Q7L5N1}  
30378 Pathogen[ P03346] interacts with 9 human  
partners:{Q99627;Q9BT78;Q13098;Q92905;P61201;Q9H9Q2;Q9UBW8;Q9UNS2;Q7L5N1}  
30379 Pathogen[ Q85601] interacts with 9 human  
partners:{P61201;Q9UBW8;Q13098;Q92905;Q9BT78;Q9H9Q2;Q9UNS2;Q99627;Q7L5N1}  
30380 Pathogen[ P14079] interacts with 9 human  
partners:{Q99627;P61201;Q9UBW8;Q13098;Q9UNS2;Q9H9Q2;Q92905;Q9BT78;Q7L5N1}  
30381 Pathogen[ P03383] interacts with 7 human

30382 partners:{Q92905;Q9UBW8;P61201;Q9BT78;Q7L5N1;Q9UNS2;Q99627}  
Pathogen[ P03410] interacts with 9 human

30383 partners:{Q9H9Q2;Q13098;Q92905;Q99627;Q9BT78;Q7L5N1;Q9UNS2;P61201;Q9UBW8}  
Pathogen[ P14075] interacts with 7 human

30384 partners:{Q9BT78;P61201;Q9UNS2;Q7L5N1;Q92905;Q99627;Q9UBW8}  
Pathogen[ P0C206] interacts with 9 human

30385 partners:{Q9H9Q2;P61201;Q9UBW8;Q9BT78;Q99627;Q13098;Q7L5N1;Q9UNS2;Q92905}  
Pathogen[ P03363] interacts with 9 human

30386 partners:{Q9H9Q2;P61201;Q9BT78;Q99627;Q7L5N1;Q9UNS2;Q9UBW8;Q92905;Q13098}  
[Cluster 2763]GO:0043588+P biological\_process [name] skin development [def] "The process whose specific outcome is the progression of the skin over time, from its formation to the mature structure. The skin is the external membranous integument of an animal. In vertebrates the skin generally consists of two layers, an outer nonsensitive and nonvascular epidermis (cuticle or skarfskin) composed of cells which are constantly growing and multiplying in the deeper, and being thrown off in the superficial layers, as well as an inner vascular dermis (cutis, corium or true skin) composed mostly of connective tissue." [GOC

30387 Pathogen[ Q2Q067] interacts with 7 human  
partners:{Q6XD76;Q92754;O14896;P15924;P35527;Q9UMX1;Q9Y651}

30388 Pathogen[ P0C214] interacts with 9 human  
partners:{P35527;P15924;Q92754;Q5SW24;O14896;P49588;Q6XD76;Q9Y651;Q9UMX1}

30389 Pathogen[ P03346] interacts with 9 human  
partners:{P15924;P35527;Q6XD76;Q92754;Q9HCS4;O14896;Q92481;Q9Y651;Q9UMX1}

30390 Pathogen[ Q85601] interacts with 9 human  
partners:{O14896;Q92754;Q9Y651;P15924;P35527;Q9HCS4;Q9UMX1;Q5SW24;Q6XD76}

30391 Pathogen[ P14079] interacts with 8 human  
partners:{O14896;Q5SW24;Q6XD76;P15924;Q9UMX1;P35527;Q92754;P49588}

30392 Pathogen[ P03383] interacts with 5 human  
partners:{P15924;P35527;O14896;Q92754;Q9UMX1}

30393 Pathogen[ P03410] interacts with 9 human  
partners:{P15924;O14896;P49588;P35527;Q6XD76;Q5SW24;Q9HCS4;Q9UMX1;Q92754}

30394 Pathogen[ P14075] interacts with 5 human  
partners:{Q92754;O14896;P35527;Q9UMX1;P15924}

30395 Pathogen[ P0C206] interacts with 9 human  
partners:{P35527;Q9UMX1;Q6XD76;Q9HCS4;Q92754;Q5SW24;O14896;P15924;Q9Y651}

30396 Pathogen[ P03363] interacts with 8 human  
partners:{O14896;Q9UMX1;Q9HCS4;P15924;P35527;Q6XD76;Q9Y651;Q92754}

30397 [Cluster 2764]GO:0009749+P biological\_process [name] response to glucose stimulus [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a glucose stimulus." [GOC

30398 Pathogen[ Q2Q067] interacts with 17 human  
partners:{Q13562;P35680;P49770;P36956;Q9UI10;P55212;P54840;Q14232;Q9NR50;Q8NHW3;Q15796;Q15466;P20823;Q13144;Q9BQE4;Q9H3M7;P18146}

30399 Pathogen[ P0C214] interacts with 15 human  
partners:{Q9UI10;P49770;P55212;Q9H3M7;Q8NHW3;Q14232;O60825;P11168;Q9NR50;Q13144;Q15796;P18146;P54840;Q9BQE4;Q15466}

30400 Pathogen[ P03346] interacts with 16 human  
partners:{P36956;Q15466;Q15796;P20823;P55212;Q14232;P35680;P49770;P54840;P18146;Q13562;Q13144;Q8NHW3;Q9NR50;Q9H3M7;Q9UI10}

30401 Pathogen[ Q85601] interacts with 19 human  
partners:{P18146;P11168;Q15466;O60825;Q9NR50;Q13144;P49770;Q13562;Q8NHW3;P36956;P35680;P54840;P55212;P20823;Q14232;Q9H3M7;Q9UI10;Q15796;Q9BQE4}

30402 Pathogen[ P14079] interacts with 16 human  
partners:{Q9BQE4;Q9UI10;Q16517;P20396;P35680;P55212;Q13144;Q9NR50;P11686;Q8NHW3;Q9H3M7;Q14232;Q15466;P54840;P81277;P36956}

30403 Pathogen[ P03383] interacts with 13 human  
partners:{P55212;Q9UI10;P18146;P11168;Q13144;Q9NR50;Q9BQE4;Q15466;P49770;Q15796;Q14232;Q9H3M7;P54840}

30404 Pathogen[ P03410] interacts with 20 human  
partners:{P36956;Q9NR50;P54840;Q16517;P11168;Q9H3M7;Q14232;Q9BQE4;P49770;P11686;Q15466;Q8NHW3;P35680;P81277;P18146;Q15796;P55212;Q9UI10;Q13144;P20396}

30405 Pathogen[ P14075] interacts with 13 human  
partners:{Q9BQE4;P55212;P18146;Q15796;Q9UI10;P54840;Q14232;P49770;Q9H3M7;Q9NR50;Q15466;P11168;Q13144}

30406 Pathogen[ P0C206] interacts with 20 human  
partners:{Q15466;Q14232;P55212;P36956;Q15796;Q9NR50;P18146;Q13144;P54840;P11168;P49770;Q9BQE4;P35680;P20823;Q9UI10;Q8NHW3;O60825;Q13562;Q9H3M7;P20396}

30407 Pathogen[ P03363] interacts with 11 human  
partners:{Q15466;P18146;Q9UI10;Q8NHW3;Q9H3M7;P55212;Q9NR50;Q15796;P54840;P49770;Q13144}

30408 [Cluster 2765]GO:0048742+P biological\_process [name] regulation of skeletal muscle fiber development [def] "Any process that modulates the frequency, rate or extent of skeletal muscle fiber development. Muscle fibers are formed by the maturation of myotubes. They can be classed as slow, intermediate/fast or fast." [GOC

30409 Pathogen[ Q2Q067] interacts with 4 human partners:{P56524;Q9UKV0;Q9UQL6;Q8NEZ5}

30410 Pathogen[ P0C214] interacts with 3 human partners:{P56524;Q9UKV0;Q9UQL6}  
30411 Pathogen[ P03346] interacts with 4 human partners:{Q8NEZ5;P56524;Q9UKV0;Q9UQL6}  
30412 Pathogen[ Q85601] interacts with 4 human partners:{Q9UKV0;Q9UQL6;P56524;Q8NEZ5}  
30413 Pathogen[ P14079] interacts with 4 human partners:{Q9UQL6;Q9UKV0;Q8NEZ5;P56524}  
30414 Pathogen[ P03383] interacts with 4 human partners:{Q9UQL6;Q9UKV0;P56524;Q8NEZ5}  
30415 Pathogen[ P03410] interacts with 4 human partners:{Q9UKV0;Q9UQL6;Q8NEZ5;P56524}  
30416 Pathogen[ P14075] interacts with 4 human partners:{P56524;Q9UKV0;Q8NEZ5;Q9UQL6}  
30417 Pathogen[ P0C206] interacts with 4 human partners:{Q9UKV0;P56524;Q8NEZ5;Q9UQL6}  
30418 Pathogen[ P03363] interacts with 3 human partners:{Q8NEZ5;Q9UQL6;Q9UKV0}  
30419 [Cluster 2766]GO:0034067+P biological\_process [name] protein localization in Golgi apparatus [def] "A process in which a protein is transported to, or maintained in, a location within the Golgi apparatus." [GOC  
30420 Pathogen[ Q2Q067] interacts with 2 human partners:{P83436;Q8IWIJ2}  
30421 Pathogen[ P0C214] interacts with 2 human partners:{Q8IWIJ2;P83436}  
30422 Pathogen[ P03346] interacts with 3 human partners:{P20340;P83436;Q8IWIJ2}  
30423 Pathogen[ Q85601] interacts with 2 human partners:{Q8IWIJ2;P83436}  
30424 Pathogen[ P14079] interacts with 3 human partners:{P83436;Q9GZZ8;Q8IWIJ2}  
30425 Pathogen[ P03383] interacts with 2 human partners:{Q8IWIJ2;P83436}  
30426 Pathogen[ P03410] interacts with 3 human partners:{Q9GZZ8;P83436;Q8IWIJ2}  
30427 Pathogen[ P14075] interacts with 3 human partners:{Q8IWIJ2;Q9GZZ8;P83436}  
30428 Pathogen[ P0C206] interacts with 2 human partners:{P83436;Q8IWIJ2}  
30429 Pathogen[ P03363] interacts with 2 human partners:{P83436;Q8IWIJ2}  
30430 [Cluster 2767]GO:0000160+P biological\_process [name] two-component signal transduction system (phosphorelay) [def] "A conserved series of molecular signals found in prokaryotes and eukaryotes\_ involves autophosphorylation of a histidine kinase and the transfer of the phosphate group to an aspartate that then acts as a phospho-donor to response regulator proteins." [PMID  
30431 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96T76}  
30432 Pathogen[ P0C214] interacts with 2 human partners:{Q9NXG0;Q96T76}  
30433 Pathogen[ P03346] interacts with 2 human partners:{Q9NXG0;Q96T76}  
30434 Pathogen[ Q85601] interacts with 2 human partners:{Q96T76;Q9NXG0}  
30435 Pathogen[ P14079] interacts with 2 human partners:{Q9NXG0;Q96T76}  
30436 Pathogen[ P03383] interacts with 1 human partners:{Q96T76}  
30437 Pathogen[ P03410] interacts with 2 human partners:{Q96T76;Q9NXG0}  
30438 Pathogen[ P14075] interacts with 1 human partners:{Q96T76}  
30439 Pathogen[ P0C206] interacts with 2 human partners:{Q96T76;Q9NXG0}  
30440 Pathogen[ P03363] interacts with 2 human partners:{Q9NXG0;Q96T76}  
30441 [Cluster 2768]GO:0006687+P biological\_process [name] glycosphingolipid metabolic process [def] "The chemical reactions and pathways involving glycosphingolipids, any compound with residues of sphingoid and at least one monosaccharide." [ISBN  
30442 Pathogen[ Q2Q067] interacts with 2 human partners:{Q8WWR8;Q03060}  
30443 Pathogen[ P0C214] interacts with 5 human partners:{Q8WWR8;Q9H227;Q9Y3R4;Q03060;P16278}  
30444 Pathogen[ P03346] interacts with 3 human partners:{P16278;Q8WWR8;Q03060}  
30445 Pathogen[ Q85601] interacts with 1 human partners:{Q03060}  
30446 Pathogen[ P14079] interacts with 11 human partners:{Q9NY59;P16278;Q9NXE4;Q03060;P06280;P54803;Q13510;Q8NBK3;Q8WWR8;Q9Y3R4;P17405}  
30447 Pathogen[ P03383] interacts with 2 human partners:{Q8WWR8;Q03060}  
30448 Pathogen[ P03410] interacts with 8 human partners:{P54803;P16278;Q03060;Q9NXE4;Q13510;Q9Y3R4;P17405;Q8WWR8}  
30449 Pathogen[ P14075] interacts with 3 human partners:{Q8WWR8;Q13510;Q03060}  
30450 Pathogen[ P0C206] interacts with 4 human partners:{Q03060;Q9Y3R4;Q8WWR8;P16278}  
30451 Pathogen[ P03363] interacts with 1 human partners:{Q03060}  
30452 [Cluster 2769]GO:0036109+P  
30453 Pathogen[ Q2Q067] interacts with 1 human partners:{O14734}  
30454 Pathogen[ P0C214] interacts with 3 human partners:{Q9NXB9;Q9NYP7;O14734}  
30455 Pathogen[ P03346] interacts with 1 human partners:{O14734}  
30456 Pathogen[ Q85601] interacts with 1 human partners:{O14734}  
30457 Pathogen[ P14079] interacts with 1 human partners:{O14734}  
30458 Pathogen[ P03383] interacts with 1 human partners:{O14734}  
30459 Pathogen[ P03410] interacts with 1 human partners:{O14734}  
30460 Pathogen[ P14075] interacts with 1 human partners:{O14734}  
30461 Pathogen[ P0C206] interacts with 1 human partners:{O14734}  
30462 Pathogen[ P03363] interacts with 1 human partners:{O14734}  
30463 [Cluster 2770]GO:0001776+P biological\_process [name] leukocyte homeostasis [def] "The process of regulating the proliferation and elimination of cells of the immune system such that the total number of cells of a particular cell type within a whole or part of an organism is stable over time in the absence of an outside stimulus." [GOC  
30464 Pathogen[ Q2Q067] interacts with 1 human partners:{O00255}  
30465 Pathogen[ P0C214] interacts with 1 human partners:{O00255}  
30466 Pathogen[ P03346] interacts with 2 human partners:{O00255;Q8TAU0}  
30467 Pathogen[ Q85601] interacts with 1 human partners:{O00255}  
30468 Pathogen[ P14079] interacts with 1 human partners:{O00255}  
30469 Pathogen[ P03383] interacts with 1 human partners:{O00255}  
30470 Pathogen[ P03410] interacts with 1 human partners:{O00255}

30471 Pathogen[ P14075] interacts with 1 human partners:{000255}

30472 Pathogen[ POC206] interacts with 2 human partners:{000255;Q8TAU0}

30473 Pathogen[ P03363] interacts with 1 human partners:{Q8TAU0}

30474 [Cluster 2771]GO:0006119+P biological\_process [name] oxidative phosphorylation  
[def] "The phosphorylation of ADP to ATP that accompanies the oxidation of a metabolite through the operation of the respiratory chain. Oxidation of compounds establishes a proton gradient across the membrane, providing the energy for ATP synthesis." [ISBN

30475 Pathogen[ Q2Q067] interacts with 3 human partners:{075323;Q8WYQ3;Q96QE5}

30476 Pathogen[ POC214] interacts with 5 human partners:{Q96QE5;P22695;P36542;Q8WYQ3;075323}

30477 Pathogen[ P03346] interacts with 3 human partners:{Q8WYQ3;075323;Q96QE5}

30478 Pathogen[ Q85601] interacts with 2 human partners:{Q96QE5;075323}

30479 Pathogen[ P14079] interacts with 8 human partners:{P22695;P36542;Q8WYQ3;P00395;P14927;Q15526;P07919;075323}

30480 Pathogen[ P03383] interacts with 3 human partners:{075323;Q8WYQ3;Q96QE5}

30481 Pathogen[ P03410] interacts with 7 human partners:{Q8WYQ3;P36542;P07919;Q96QE5;P22695;075323;P14927}

30482 Pathogen[ P14075] interacts with 3 human partners:{075323;Q8WYQ3;Q96QE5}

30483 Pathogen[ POC206] interacts with 5 human partners:{P36542;Q96QE5;P22695;Q8WYQ3;075323}

30484 Pathogen[ P03363] interacts with 2 human partners:{Q96QE5;075323}

30485 [Cluster 2772]GO:0006772+P biological\_process [name] thiamine metabolic process  
[def] "The chemical reactions and pathways involving thiamine (vitamin B1), a water soluble vitamin present in fresh vegetables and meats, especially liver." [GOC

30486 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BU02}

30487 Pathogen[ POC214] interacts with 2 human partners:{Q9BU02;P51854}

30488 Pathogen[ P03346] interacts with 1 human partners:{Q9BU02}

30489 Pathogen[ Q85601] interacts with 1 human partners:{Q9BU02}

30490 Pathogen[ P14079] interacts with 2 human partners:{P51854;Q9BU02}

30491 Pathogen[ P03383] interacts with 1 human partners:{Q9BU02}

30492 Pathogen[ P03410] interacts with 2 human partners:{Q9BU02;P51854}

30493 Pathogen[ P14075] interacts with 1 human partners:{Q9BU02}

30494 Pathogen[ POC206] interacts with 2 human partners:{P51854;Q9BU02}

30495 Pathogen[ P03363] interacts with 1 human partners:{Q9BU02}

30496 [Cluster 2773]GO:0051603+P biological\_process [name] proteolysis involved in cellular protein catabolic process [def] "The hydrolysis of a peptide bond or bonds within a protein as part of the chemical reactions and pathways resulting in the breakdown of a protein by individual cells." [GOC

30497 Pathogen[ Q2Q067] interacts with 21 human partners:{P40306;P28072;A5LHX3;076031;P25787;Q14790;P28065;O14818;P60900;P28062;P25788;P25786;P28074;P25789;P20618;P28070;P28066;Q99436;Q8TAA3;P49721;P49720}

30498 Pathogen[ POC214] interacts with 21 human partners:{P25789;P28062;A5LHX3;P28065;O14818;P40306;076031;P28066;P49720;P28074;P25788;P25786;P28072;Q8TAA3;Q99436;P25787;P60900;P28070;P20618;P49721;Q14790}

30499 Pathogen[ P03346] interacts with 21 human partners:{P25787;P28070;P25789;P28072;P25788;P28074;P49721;O14818;Q99436;A5LHX3;P28062;P20618;076031;P49720;P28065;P60900;P25786;P28066;Q8TAA3;Q14790;P40306}

30500 Pathogen[ Q85601] interacts with 21 human partners:{P28066;P60900;P25787;P25788;Q14790;P25789;P20618;P40306;P49720;P28062;P49721;P25786;P28072;P28065;Q99436;P28070;Q8TAA3;076031;P28074;A5LHX3;O14818}

30501 Pathogen[ P14079] interacts with 18 human partners:{P28065;Q99436;P40306;P28074;P49720;P25787;A5LHX3;P20618;Q8TAA3;Q14790;P28062;P60900;O14818;P49721;P25788;076031;P28066;P28072}

30502 Pathogen[ P03383] interacts with 19 human partners:{P25789;P60900;P40306;P49721;P20618;P25786;P28072;P28065;P28066;076031;P28074;P49720;Q8TAA3;P28062;O14818;Q99436;P28070;P25787;P25788}

30503 Pathogen[ P03410] interacts with 20 human partners:{P28070;P25786;P60900;Q8TAA3;P49721;A5LHX3;Q99436;P40306;076031;P25787;P28062;O14818;P25789;P49720;P28072;P25788;P28066;P28065;P20618;P28074}

30504 Pathogen[ P14075] interacts with 19 human partners:{P25788;P28066;Q8TAA3;P60900;P49720;P28070;P49721;076031;P28062;P28074;P28065;P25786;O14818;P28072;P25787;P20618;P40306;Q99436;P25789}

30505 Pathogen[ POC206] interacts with 21 human partners:{Q99436;P28062;P40306;P28065;P25786;P25788;P25787;P49720;P60900;A5LHX3;P25789;P20618;Q8TAA3;P28070;Q14790;P28066;O14818;P28072;P28074;P49721;076031}

30506 Pathogen[ P03363] interacts with 1 human partners:{076031}

30507 [Cluster 2774]GO:0060452+P biological\_process [name] positive regulation of cardiac muscle contraction [def] "Any process that increases the frequency, rate or extent of cardiac muscle contraction." [GOC

30508 Pathogen[ Q2Q067] interacts with 1 human partners:{P41220}

30509 Pathogen[ POC214] interacts with 1 human partners:{P41220}

30510 Pathogen[ P03346] interacts with 1 human partners:{P41220}

30511 Pathogen[ Q85601] interacts with 1 human partners:{P41220}

30512 Pathogen[ P14079] interacts with 1 human partners:{P41220}

30513 Pathogen[ P03383] interacts with 1 human partners:{P41220}

30514 Pathogen[ P03410] interacts with 1 human partners:{P41220}

30515 Pathogen[ P14075] interacts with 1 human partners:{P41220}

30516 Pathogen[ P0C206] interacts with 1 human partners:{P41220}

30517 Pathogen[ P03363] interacts with 1 human partners:{P41220}

30518 [Cluster 2775]GO:0060412+P biological\_process [name] ventricular septum morphogenesis [def] "The developmental process in which a ventricular septum is generated and organized. A ventricular septum is an anatomical structure that separates the lower chambers (ventricles) of the heart from one another." [GOC

30519 Pathogen[ Q2Q067] interacts with 8 human partners:{Q8WW38;Q9NQ87;Q96T37;O15105;Q8IX07;Q9Y5J3;Q9GZT9;Q9H4B6}

30520 Pathogen[ P0C214] interacts with 8 human partners:{Q9Y5J3;Q9H4B6;O15105;Q8WW38;Q9GZT9;Q8IX07;Q9NQ87;Q96T37}

30521 Pathogen[ P03346] interacts with 9 human partners:{Q06945;Q8WW38;O15105;Q9Y5J3;Q9GZT9;Q9NQ87;Q8IX07;Q9H4B6;Q96T37}

30522 Pathogen[ Q85601] interacts with 8 human partners:{Q8WW38;Q9GZT9;Q9NQ87;Q8IX07;O15105;Q96T37;Q9H4B6;Q9Y5J3}

30523 Pathogen[ P14079] interacts with 8 human partners:{Q9GZT9;Q96T37;Q9Y5J3;Q9H4B6;Q8IX07;Q9NQ87;O15105;Q8WW38}

30524 Pathogen[ P03383] interacts with 4 human partners:{Q8WW38;Q9NQ87;O15105;Q9H4B6}

30525 Pathogen[ P03410] interacts with 8 human partners:{Q9Y5J3;Q9NQ87;Q96T37;Q8WW38;Q9GZT9;Q8IX07;O15105;Q9H4B6}

30526 Pathogen[ P14075] interacts with 5 human partners:{Q9GZT9;Q8WW38;Q9NQ87;Q9H4B6;O15105}

30527 Pathogen[ P0C206] interacts with 8 human partners:{Q9NQ87;Q96T37;Q9GZT9;Q8WW38;O15105;Q9Y5J3;Q9H4B6;Q8IX07}

30528 Pathogen[ P03363] interacts with 6 human partners:{Q9Y5J3;Q9NQ87;O15105;Q96T37;Q9H4B6;Q8WW38}

30529 [Cluster 2776]GO:0006264+P biological\_process [name] mitochondrial DNA replication [def] "The process in which new strands of DNA are synthesized in the mitochondrion." [GOC

30530 Pathogen[ Q2Q067] interacts with 6 human partners:{O60930;Q7LG56;Q53G26;P54098;Q96EY1;Q96QE5}

30531 Pathogen[ P0C214] interacts with 6 human partners:{Q96QE5;P54098;O60930;Q53G26;Q7LG56;Q96EY1}

30532 Pathogen[ P03346] interacts with 6 human partners:{P54098;O60930;Q7LG56;Q53G26;Q96QE5;Q96EY1}

30533 Pathogen[ Q85601] interacts with 6 human partners:{Q53G26;Q96QE5;Q7LG56;P54098;O60930;Q96EY1}

30534 Pathogen[ P14079] interacts with 4 human partners:{Q7LG56;P54098;O60930;Q96EY1}

30535 Pathogen[ P03383] interacts with 5 human partners:{P54098;O60930;Q96EY1;Q96QE5;Q53G26}

30536 Pathogen[ P03410] interacts with 6 human partners:{Q53G26;O60930;Q96QE5;P54098;Q96EY1;Q7LG56}

30537 Pathogen[ P14075] interacts with 5 human partners:{P54098;O60930;Q53G26;Q96QE5;Q96EY1}

30538 Pathogen[ P0C206] interacts with 6 human partners:{Q53G26;P54098;Q7LG56;Q96QE5;O60930;Q96EY1}

30539 Pathogen[ P03363] interacts with 5 human partners:{P54098;Q53G26;Q96QE5;O60930;Q96EY1}

30540 [Cluster 2777]GO:0051321+P biological\_process [name] meiotic cell cycle [def] "Progression through the phases of the meiotic cell cycle, in which canonically a cell replicates to produce four offspring with half the chromosomal content of the progenitor cell." [GOC

30541 Pathogen[ Q2Q067] interacts with 1 human partners:{P49116}

30542 Pathogen[ P0C214] interacts with 1 human partners:{P49116}

30543 Pathogen[ P03346] interacts with 1 human partners:{P49116}

30544 Pathogen[ Q85601] interacts with 1 human partners:{P49116}

30545 Pathogen[ P14079] interacts with 2 human partners:{P61158;P49116}

30546 Pathogen[ P03383] interacts with 1 human partners:{P49116}

30547 Pathogen[ P03410] interacts with 1 human partners:{P49116}

30548 Pathogen[ P14075] interacts with 1 human partners:{P49116}

30549 Pathogen[ P0C206] interacts with 1 human partners:{P49116}

30550 Pathogen[ P03363] interacts with 1 human partners:{P49116}

30551 [Cluster 2778]GO:0071028+P biological\_process [name] nuclear mRNA surveillance [def] "The set of processes involved in identifying and degrading defective or aberrant mRNAs within the nucleus." [GOC

30552 Pathogen[ Q2Q067] interacts with 3 human partners:{Q8IZH2;Q06265;Q9NPD3}

30553 Pathogen[ P0C214] interacts with 3 human partners:{Q8IZH2;Q9NPD3;Q06265}

30554 Pathogen[ P03346] interacts with 3 human partners:{Q8IZH2;Q06265;Q9NPD3}

30555 Pathogen[ Q85601] interacts with 3 human partners:{Q9NPD3;Q8IZH2;Q06265}

30556 Pathogen[ P14079] interacts with 3 human partners:{Q9NPD3;Q8IZH2;Q06265}

30557 Pathogen[ P03383] interacts with 2 human partners:{Q06265;Q9NPD3}

30558 Pathogen[ P03410] interacts with 3 human partners:{Q06265;Q8IZH2;Q9NPD3}

30559 Pathogen[ P14075] interacts with 2 human partners:{Q9NPD3;Q06265}

30560 Pathogen[ P0C206] interacts with 3 human partners:{Q8IZH2;Q9NPD3;Q06265}

30561 Pathogen[ P03363] interacts with 2 human partners:{Q9NPD3;Q8IZH2}

30562 [Cluster 2779]GO:0008063+P biological\_process [name] Toll signaling pathway [def]

"The series of molecular signals initiated by binding of an extracellular ligand to the Toll receptor on the surface of the target cell." [GOC

30563 Pathogen[ Q2Q067] interacts with 34 human partners:{P01100;Q8IUC6;Q92985;Q15653;Q04206;Q9NYJ8;A6NDB9;Q8N5C8;O75582;Q14653;Q9Y6K9;Q13114;Q13233;P61088;Q96FA3;P19419;P19838;P15336;P25963;POCG47;O14920;P45984;Q00653;POCG48;O43318;P62987;Q13404;Q9HAT8;O15111;Q15759;Q16829;Q02078;Q15750;P62979}

30564 Pathogen[ P0C214] interacts with 37 human partners:{Q00653;O15111;Q9Y6K9;P19838;P15336;Q8IUC6;Q14164;P01100;Q96FA3;P19419;Q04206;Q9HAT8;Q13404;Q15653;O43318;Q02078;Q8N5C8;Q13233;Q92985;POCG48;P25963;Q16829;Q14653;O75582;P62987;Q15750;P05412;Q13114;Q15759;POCG47;P45984;P16220;P62979;O14920;Q9NYJ8;P61088;P18846}

30565 Pathogen[ P03346] interacts with 39 human partners:{Q9Y6K9;P05412;P45984;Q02078;O15111;P16220;P15336;P62987;P25963;Q15653;P19419;POCG48;Q04206;Q13114;Q96FA3;Q13404;Q8N5C8;A6NDB9;P61088;Q9NYJ8;Q9HAT8;Q13233;O75582;Q15750;Q14653;Q16829;P62979;Q8IUC6;Q15759;POCG47;P45985;P19838;O14920;O43318;Q92985;P01100;Q14164;P18846;Q00653}

30566 Pathogen[ Q85601] interacts with 37 human partners:{Q02078;Q15750;Q9NYJ8;Q8IUC6;O15111;P19419;Q9HAT8;Q16829;P18846;POCG48;Q15653;Q13114;Q96FA3;Q13404;Q8N5C8;P01100;Q14653;Q14164;Q9Y6K9;P16220;O14920;Q04206;P05412;Q92985;O75582;P62979;Q15759;POCG47;P45984;Q13233;P62987;Q00653;P15336;O43318;P61088;P19838;P25963}

30567 Pathogen[ P14079] interacts with 37 human partners:{Q9HAT8;Q8N5C8;Q02078;POCG48;Q06413;O43187;P53779;Q14653;P52564;O75582;Q16829;Q8IUC6;Q92985;Q13404;Q14164;Q15750;P62979;P62987;Q96FA3;A6NDB9;P45984;P45983;Q16644;Q15759;Q9Y6K9;P45985;P15336;Q9Y6Y9;Q13164;P05412;POCG47;Q9Y239;P01100;Q99836;P19419;Q13114;Q15653}

30568 Pathogen[ P03383] interacts with 36 human partners:{O75582;Q14653;P16220;A6NDB9;Q9Y6K9;P62987;Q8IUC6;Q13233;Q00653;O14920;O15111;P19419;P18846;Q15653;O43318;Q8N5C8;P61088;Q92985;Q13404;Q15759;P25963;P01100;P62979;POCG47;Q96FA3;Q04206;P45984;POCG48;P15336;Q9NYJ8;P19838;Q13114;Q02078;Q9HAT8;Q15750;P05412}

30569 Pathogen[ P03410] interacts with 41 human partners:{Q04206;P19838;POCG48;O14920;Q9Y239;P19419;O15111;Q15750;Q96FA3;O75582;Q14653;O43187;Q15653;P61088;Q13233;P62979;P01100;P18846;O43318;Q16829;P45985;Q9NYJ8;Q8N5C8;P16220;Q9HAT8;P05412;Q9Y6Y9;P45984;P62987;P53779;Q02078;Q8IUC6;Q00653;Q13404;Q9Y6K9;P25963;Q92985;P15336;A6NDB9;POCG47;Q13114}

30570 Pathogen[ P14075] interacts with 36 human partners:{O15111;Q04206;Q15750;P05412;Q15759;O75582;P61088;P19419;P15336;Q15653;P25963;Q8N5C8;O14920;POCG48;P62979;Q14653;O43318;Q9HAT8;Q96FA3;P62987;Q13114;Q02078;Q8IUC6;P01100;POCG47;Q13404;P19838;Q00653;P16220;Q9Y6K9;Q92985;A6NDB9;Q13233;P18846;P45984;Q9NYJ8}

30571 Pathogen[ P0C206] interacts with 39 human partners:{POCG48;O14920;Q9Y6K9;Q13114;Q02078;P16220;Q8N5C8;O75582;A6NDB9;P45984;P05412;P25963;P19419;Q9HAT8;O43318;P15336;Q15653;P18846;Q16829;Q13233;P61088;P19838;Q14164;Q92985;P01100;Q04206;O15111;P62979;Q9NYJ8;P45985;POCG47;Q8IUC6;Q96FA3;Q00653;Q15750;P62987;Q13404;Q15759;Q14653}

30572 Pathogen[ P03363] interacts with 30 human partners:{Q14653;Q92985;O14920;Q04206;P25963;O15111;Q9NYJ8;P16220;Q9Y6K9;P19419;O43318;Q15750;P61088;P15336;Q15653;Q16829;Q00653;Q96FA3;P18846;P62987;P19838;Q13114;P05412;Q13404;Q9HAT8;Q8N5C8;Q13233;A6NDB9;P01100;Q02078}

30573 [Cluster 2780]GO:0060087+P biological\_process [name] relaxation of vascular smooth muscle [def] "A process in which the extent of vascular smooth muscle contraction is reduced. Vascular smooth muscle relaxation is mediated via a decrease in the phosphorylation state of myosin light chain. This can be achieved by removal of calcium from the cytoplasm to the sarcoplasmic reticulum lumen through the action of Ca<sup>2+</sup> ATPases leading to a decrease myosin light chain kinase activity, and through calcium-independent pathways leading to a increase in myosin light chain phosphatase activity." [GOC

30574 Pathogen[ Q2Q067] interacts with 1 human partners:{P41220}

30575 Pathogen[ P0C214] interacts with 1 human partners:{P41220}

30576 Pathogen[ P03346] interacts with 1 human partners:{P41220}

30577 Pathogen[ Q85601] interacts with 1 human partners:{P41220}

30578 Pathogen[ P14079] interacts with 1 human partners:{P41220}

30579 Pathogen[ P03383] interacts with 1 human partners:{P41220}

30580 Pathogen[ P03410] interacts with 1 human partners:{P41220}

30581 Pathogen[ P14075] interacts with 1 human partners:{P41220}

30582 Pathogen[ P0C206] interacts with 1 human partners:{P41220}

30583 Pathogen[ P03363] interacts with 1 human partners:{P41220}

30584 [Cluster 2781]GO:0051090+P biological\_process [name] regulation of sequence-specific DNA binding transcription factor activity [def] "Any process that modulates the frequency, rate or extent of the activity of a transcription factor, any factor involved in the initiation or regulation of transcription." [GOC

30585 Pathogen[ Q2Q067] interacts with 10 human partners:{P01100;Q93009;Q9NS37;Q08050;O43524;P49848;Q9Y6J9;P15336;P45984;Q15759}

30586 Pathogen[ P0C214] interacts with 9 human partners:{Q9NS37;Q9Y6J9;P15336;P01100;P49848;Q93009;P05412;Q15759;P45984}

30587 Pathogen[ P03346] interacts with 19 human  
partners: {P85037;Q9Y6J9;P05412;P45984;Q93009;P58012;P15336;Q08050;O00409;P49848;Q12778;Q01167;P98177;Q15759;O75593;O43524;Q9NS37;P01100;Q9UJU5}

30588 Pathogen[ Q85601] interacts with 10 human  
partners: {Q93009;Q9Y6J9;P01100;P49848;P05412;Q15759;P45984;Q08050;P15336;Q9NS37}

30589 Pathogen[ P14079] interacts with 11 human  
partners: {Q9Y6J9;P53779;Q9NS37;P45984;P45983;Q15759;P49848;P15336;Q8N1H7;P05412;P01100}

30590 Pathogen[ P03383] interacts with 8 human  
partners: {Q9Y6J9;P49848;Q15759;P01100;P45984;P15336;Q9NS37;P05412}

30591 Pathogen[ P03410] interacts with 8 human  
partners: {Q9NS37;P01100;P49848;Q9Y6J9;P05412;P45984;P53779;P15336}

30592 Pathogen[ P14075] interacts with 9 human  
partners: {Q9Y6J9;P05412;Q15759;Q08050;P15336;P49848;P01100;Q9NS37;P45984}

30593 Pathogen[ P0C206] interacts with 10 human  
partners: {P49848;P45984;P05412;P15336;Q93009;Q9Y6J9;P01100;Q9NS37;Q08050;Q15759}

30594 Pathogen[ P03363] interacts with 11 human  
partners: {P49848;Q9NS37;O00409;O43524;P15336;Q08050;Q01167;P05412;Q9UJU5;Q9Y6J9;P01100}

30595 [Cluster 2782]GO:0042771+P biological\_process [name] DNA damage response, signal transduction by p53 class mediator resulting in induction of apoptosis [def] "A cascade of processes induced by the cell cycle regulator phosphoprotein p53, or an equivalent protein, in response to the detection of DNA damage and resulting in the initiation of apoptosis (programmed cell death)." [GOC

30596 Pathogen[ Q2Q067] interacts with 6 human  
partners: {Q16666;Q9BXH1;P20749;O60356;O15350;Q71UM5}

30597 Pathogen[ P0C214] interacts with 8 human  
partners: {P46379;O15350;Q16666;Q71UM5;Q9BXH1;P20749;O60356;Q8WTP8}

30598 Pathogen[ P03346] interacts with 11 human  
partners: {Q16666;Q13362;Q9H305;Q71UM5;O15350;Q86Z02;P51587;P46379;P20749;O60356;Q9BXH1}

30599 Pathogen[ Q85601] interacts with 8 human  
partners: {Q16666;Q9BXH1;P46379;Q71UM5;O60356;O15350;P20749;P51587}

30600 Pathogen[ P14079] interacts with 11 human  
partners: {Q13362;P51587;Q9H305;O15350;Q9BXH1;Q9NX09;Q71UM5;P20749;O60356;Q16666;Q8WTP8}

30601 Pathogen[ P03383] interacts with 6 human  
partners: {P20749;Q71UM5;O15350;Q16666;Q9BXH1;O60356}

30602 Pathogen[ P03410] interacts with 11 human  
partners: {P20749;Q9H305;Q8WTP8;Q16666;Q9BXH1;P51587;O60356;O15350;Q13362;Q9NX09;Q71UM5}

30603 Pathogen[ P14075] interacts with 6 human  
partners: {Q16666;O15350;Q9BXH1;O60356;P20749;Q71UM5}

30604 Pathogen[ P0C206] interacts with 10 human  
partners: {Q9H305;P51587;Q16666;Q9BXH1;O60356;Q71UM5;P20749;Q13362;O15350;P46379}

30605 Pathogen[ P03363] interacts with 8 human  
partners: {P46379;O60356;Q13362;Q16666;Q9H305;P20749;Q71UM5;Q9BXH1}

30606 [Cluster 2783]GO:0051412+P biological\_process [name] response to corticosterone stimulus [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a corticosterone stimulus. Corticosterone is a 21 carbon steroid hormone of the corticosteroid type, produced in the cortex of the adrenal glands. In many species, corticosterone is the principal glucocorticoid, involved in regulation of fuel metabolism, immune reactions, and stress responses." [PMID

30607 Pathogen[ Q2Q067] interacts with 5 human  
partners: {P01100;P24385;P24864;P38936;P15407}

30608 Pathogen[ P0C214] interacts with 8 human  
partners: {P15407;P01100;P17275;Q16613;P24385;P38936;P05543;P24864}

30609 Pathogen[ P03346] interacts with 6 human  
partners: {P24385;P17275;P24864;P15407;P38936;P01100}

30610 Pathogen[ Q85601] interacts with 7 human  
partners: {P24385;P15407;Q16613;P01100;P38936;P17275;P24864}

30611 Pathogen[ P14079] interacts with 7 human  
partners: {P24864;P20396;Q16613;P38936;P17275;P15407;P01100}

30612 Pathogen[ P03383] interacts with 6 human  
partners: {Q16613;P24385;P15407;P01100;P24864;P17275}

30613 Pathogen[ P03410] interacts with 8 human  
partners: {P01100;P24385;P38936;P17275;Q16613;P15407;P24864;P20396}

30614 Pathogen[ P14075] interacts with 6 human  
partners: {P17275;Q16613;P01100;P24385;P15407;P24864}

30615 Pathogen[ P0C206] interacts with 8 human  
partners: {P15407;P17275;P01100;P38936;P20396;Q16613;P24864;P24385}

30616 Pathogen[ P03363] interacts with 5 human  
partners: {P24864;P17275;P15407;P24385;P01100}

30617 [Cluster 2784]GO:0031952+P biological\_process [name] regulation of protein autophosphorylation [def] "Any process that modulates the frequency, rate or extent of

addition of the phosphorylation by a protein of one or more of its own residues." [GOC

30618 Pathogen[ Q2Q067] interacts with 2 human partners:{P67775;Q15173}

30619 Pathogen[ P0C214] interacts with 2 human partners:{Q15173;P67775}

30620 Pathogen[ P03346] interacts with 2 human partners:{P67775;Q15173}

30621 Pathogen[ Q85601] interacts with 2 human partners:{Q15173;P67775}

30622 Pathogen[ P14079] interacts with 1 human partners:{Q15173}

30623 Pathogen[ P03383] interacts with 2 human partners:{Q15173;P67775}

30624 Pathogen[ P03410] interacts with 2 human partners:{Q15173;P67775}

30625 Pathogen[ P14075] interacts with 2 human partners:{Q15173;P67775}

30626 Pathogen[ P0C206] interacts with 2 human partners:{Q15173;P67775}

30627 Pathogen[ P03363] interacts with 2 human partners:{Q15173;P67775}

30628 [Cluster 2785]GO:2000142+P biological\_process [name] regulation of transcription initiation, DNA-dependent [def] "Any process that modulates the frequency, rate or extent of DNA-dependent transcription initiation." [GOC

30629 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NYV6}

30630 Pathogen[ P0C214] interacts with 1 human partners:{Q9NYV6}

30631 Pathogen[ P03346] interacts with 1 human partners:{Q9NYV6}

30632 Pathogen[ Q85601] interacts with 1 human partners:{Q9NYV6}

30633 Pathogen[ P14079] interacts with 1 human partners:{Q9NYV6}

30634 Pathogen[ P03383] interacts with 1 human partners:{Q9NYV6}

30635 Pathogen[ P03410] interacts with 1 human partners:{Q9NYV6}

30636 Pathogen[ P14075] interacts with 1 human partners:{Q9NYV6}

30637 Pathogen[ P0C206] interacts with 1 human partners:{Q9NYV6}

30638 Pathogen[ P03363] interacts with 1 human partners:{Q9NYV6}

30639 [Cluster 2786]GO:0060133+P biological\_process [name] somatotropin secreting cell development [def] "The process whose specific outcome is the progression of a somatotropin secreting cell over time, from its formation to the mature structure. A somatotropin secreting cell is an acidophilic cell of the anterior pituitary that produces growth hormone, somatotropin." [GOC

30640 Pathogen[ Q2Q067] interacts with 1 human partners:{P28069}

30641 Pathogen[ P0C214] interacts with 1 human partners:{P28069}

30642 Pathogen[ P03346] interacts with 1 human partners:{P28069}

30643 Pathogen[ Q85601] interacts with 1 human partners:{P28069}

30644 Pathogen[ P14079] interacts with 1 human partners:{P28069}

30645 Pathogen[ P03383] interacts with 1 human partners:{P28069}

30646 Pathogen[ P03410] interacts with 1 human partners:{P28069}

30647 Pathogen[ P14075] interacts with 1 human partners:{P28069}

30648 Pathogen[ P0C206] interacts with 1 human partners:{P28069}

30649 Pathogen[ P03363] interacts with 1 human partners:{P28069}

30650 [Cluster 2787]GO:0030433+P biological\_process [name] ER-associated protein catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of proteins transported from the endoplasmic reticulum and targeted to cytoplasmic proteasomes for degradation. This process acts on misfolded proteins as well as in the regulated degradation of correctly folded proteins." [GOC

30651 Pathogen[ Q2Q067] interacts with 8 human partners:{Q5VYK3;P60604;Q9UBS3;Q8TAT6;Q9BQE4;Q9NRD1;Q96DZ1;P14625}

30652 Pathogen[ P0C214] interacts with 9 human partners:{P14625;Q5VYK3;Q9UBS3;Q9NRD1;Q8TAT6;Q96DZ1;Q9BQE4;P55072;P60604}

30653 Pathogen[ P03346] interacts with 12 human partners:{Q9UBS3;P14625;Q96DZ1;P25686;Q13438;P55072;Q9BUN8;P60604;Q5VYK3;Q9NRD1;Q8TAT6;Q8IWF2}

30654 Pathogen[ Q85601] interacts with 7 human partners:{Q5VYK3;Q9UBS3;P14625;P60604;Q8TAT6;Q9BQE4;Q9NRD1}

30655 Pathogen[ P14079] interacts with 16 human partners:{P60468;Q9BQE4;Q9P055;Q9UBS3;P60604;Q96Q80;Q9GZP9;O94905;Q5VYK3;Q96DZ1;Q9BUN8;O75477;Q8TAT6;P14625;Q9NRD1;Q13438}

30656 Pathogen[ P03383] interacts with 9 human partners:{Q96DZ1;Q5VYK3;Q9BUN8;Q9UBS3;P60604;Q9BQE4;Q8TAT6;P14625;Q9NRD1}

30657 Pathogen[ P03410] interacts with 17 human partners:{Q9NRD1;P60468;O94905;P14625;Q5VYK3;P25686;Q96Q80;Q9GZP9;Q9UBS3;Q9P055;Q9BQE4;Q9BUN8;O75477;P60604;Q96DZ1;Q8TAT6;Q13438}

30658 Pathogen[ P14075] interacts with 10 human partners:{P60604;Q9BQE4;Q9UBS3;Q8TAT6;Q9BUN8;Q9NRD1;Q96DZ1;P14625;O75477;Q5VYK3}

30659 Pathogen[ P0C206] interacts with 14 human partners:{O75477;Q8TAT6;Q96DZ1;Q9NRD1;Q9BQE4;P60604;O94905;Q9BUN8;Q9GZP9;P55072;Q5VYK3;Q9UBS3;Q13438;P14625}

30660 Pathogen[ P03363] interacts with 7 human partners:{P60604;Q96DZ1;Q9UBS3;Q8TAT6;Q13438;Q9NRD1;Q5VYK3}

30661 [Cluster 2788]GO:0009306+P biological\_process [name] protein secretion [def] "The controlled release of proteins from a cell or group of cells." [GOC

30662 Pathogen[ Q2Q067] interacts with 2 human partners:{Q96P71;Q86VX9}

30663 Pathogen[ P0C214] interacts with 3 human partners:{Q86VX9;Q96P71;P13667}

30664 Pathogen[ P03346] interacts with 3 human partners:{Q96P71;Q86VX9;P13667}

30665 Pathogen[ Q85601] interacts with 3 human partners:{Q86VX9;Q9NP61;Q96P71}

30666 Pathogen[ P14079] interacts with 5 human partners:{Q96P71;P30040;Q86VX9;Q8N300;Q96S06}



30667 Pathogen[ P03383] interacts with 2 human partners:{Q86VX9;Q96P71}  
30668 Pathogen[ P03410] interacts with 7 human  
partners:{P13667;P30040;Q9NP61;Q96S06;Q86VX9;Q8N300;Q96P71}  
30669 Pathogen[ P14075] interacts with 2 human partners:{Q86VX9;Q96P71}  
30670 Pathogen[ P0C206] interacts with 6 human  
partners:{Q96P71;Q9NP61;Q86VX9;Q8N300;P13667;Q96S06}  
30671 Pathogen[ P03363] interacts with 2 human partners:{Q96P71;Q86VX9}  
30672 [Cluster 2789]GO:0033523+P biological\_process [name] histone H2B ubiquitination  
[def] "The modification of histone H2B by addition of ubiquitin groups." [GOC  
30673 Pathogen[ Q2Q067] interacts with 8 human  
partners:{Q8WVC0;Q6PD62;Q6P1J9;P51965;Q5VTR2;O76064;O75150;Q8N7H5}  
30674 Pathogen[ P0C214] interacts with 8 human  
partners:{P51965;Q6P1J9;Q8N7H5;Q8WVC0;O75150;Q5VTR2;O76064;Q6PD62}  
30675 Pathogen[ P03346] interacts with 8 human  
partners:{Q6PD62;O76064;O75150;Q5VTR2;P51965;Q8WVC0;Q6P1J9;Q8N7H5}  
30676 Pathogen[ Q85601] interacts with 8 human  
partners:{Q6PD62;Q8WVC0;Q6P1J9;O76064;P51965;O75150;Q5VTR2;Q8N7H5}  
30677 Pathogen[ P14079] interacts with 6 human  
partners:{P51965;Q6PD62;Q5VTR2;Q8WVC0;Q6P1J9;Q8N7H5}  
30678 Pathogen[ P03383] interacts with 7 human  
partners:{Q6P1J9;P51965;Q6PD62;Q8WVC0;Q5VTR2;O75150;Q8N7H5}  
30679 Pathogen[ P03410] interacts with 7 human  
partners:{Q8WVC0;Q6PD62;P51965;Q5VTR2;Q8N7H5;O75150;Q6P1J9}  
30680 Pathogen[ P14075] interacts with 7 human  
partners:{Q5VTR2;Q8WVC0;P51965;Q8N7H5;Q6P1J9;Q6PD62;O75150}  
30681 Pathogen[ P0C206] interacts with 8 human  
partners:{Q6PD62;Q5VTR2;P51965;Q8N7H5;Q8WVC0;O76064;O75150;Q6P1J9}  
30682 Pathogen[ P03363] interacts with 7 human  
partners:{P51965;Q8WVC0;Q5VTR2;O75150;Q6P1J9;Q8N7H5;Q6PD62}  
30683 [Cluster 2790]GO:0046007+P biological\_process [name] negative regulation of activated  
T cell proliferation [def] "Any process that stops, prevents or reduces the rate or  
extent of activated T cell proliferation." [GOC  
30684 Pathogen[ Q2Q067] interacts with 1 human partners:{P04156}  
30685 Pathogen[ P0C214] interacts with 2 human partners:{P42574;P04156}  
30686 Pathogen[ P03346] interacts with 2 human partners:{P42574;P04156}  
30687 Pathogen[ Q85601] interacts with 1 human partners:{P04156}  
30688 Pathogen[ P14079] interacts with 1 human partners:{P04156}  
30689 Pathogen[ P03383] interacts with 1 human partners:{P04156}  
30690 Pathogen[ P03410] interacts with 1 human partners:{P04156}  
30691 Pathogen[ P14075] interacts with 1 human partners:{P04156}  
30692 Pathogen[ P0C206] interacts with 2 human partners:{P04156;P42574}  
30693 Pathogen[ P03363] interacts with 1 human partners:{P04156}  
30694 [Cluster 2791]GO:0042113+P biological\_process [name] B cell activation [def] "The  
change in morphology and behavior of a mature or immature B cell resulting from exposure  
to a mitogen, cytokine, chemokine, cellular ligand, or an antigen for which it is  
specific." [GOC  
30695 Pathogen[ Q2Q067] interacts with 7 human  
partners:{P56524;Q9UKV0;Q9UDY8;Q9UQL6;Q9UKT9;Q02040;P78318}  
30696 Pathogen[ P0C214] interacts with 10 human  
partners:{Q8WV28;P78318;Q9UDY8;P56524;Q9UKV0;P10809;Q9UKT9;O60925;Q02040;Q9UQL6}  
30697 Pathogen[ P03346] interacts with 10 human  
partners:{Q9UKT9;Q9UDY8;Q8IWW1;P56524;Q9UKV0;O60925;Q8WV28;Q02040;Q9UQL6;P78318}  
30698 Pathogen[ Q85601] interacts with 6 human  
partners:{Q9UKV0;Q9UQL6;Q9UDY8;P56524;P78318;Q9UKT9}  
30699 Pathogen[ P14079] interacts with 11 human  
partners:{Q9UQL6;O60925;Q9UKV0;Q8N292;Q02040;Q8WV28;Q8IWW1;P56524;P78318;Q9UKT9;Q9GZ  
Y6}  
30700 Pathogen[ P03383] interacts with 7 human  
partners:{Q02040;Q9UQL6;Q9UKV0;P56524;O60925;P78318;Q9UKT9}  
30701 Pathogen[ P03410] interacts with 11 human  
partners:{Q9UKV0;P78318;Q8N292;Q8IWW1;Q8WV28;Q9UQL6;Q9UKT9;Q9GZY6;P56524;O60925;Q020  
40}  
30702 Pathogen[ P14075] interacts with 8 human  
partners:{Q8IWW1;P56524;Q02040;Q9UKV0;Q9UKT9;P78318;O60925;Q9UQL6}  
30703 Pathogen[ P0C206] interacts with 9 human  
partners:{P78318;Q9UDY8;Q8IWW1;Q9UKV0;Q02040;O60925;Q9UKT9;P56524;Q9UQL6}  
30704 Pathogen[ P03363] interacts with 7 human  
partners:{Q8WV28;Q9UQL6;O60925;Q9UKV0;P78318;Q02040;Q9UKT9}  
30705 [Cluster 2792]GO:0045109+P biological\_process [name] intermediate filament  
organization [def] "Control of the spatial distribution of intermediate filaments\_  
includes organizing filaments into meshworks, bundles, or other structures, as by  
cross-linking." [GOC  
30706 Pathogen[ Q2Q067] interacts with 9 human  
partners:{P07196;Q7Z3Z0;P14136;P15924;Q04695;P35527;O75190;P08670;P35900}  
30707 Pathogen[ P0C214] interacts with 9 human  
partners:{P35527;O75190;P15924;P14136;Q04695;P08670;Q7Z3Z0;P07196;P35900}

30708 Pathogen[ P03346] interacts with 9 human partners: {P15924;P07196;O75190;P35527;Q7Z3Z0;P14136;Q04695;P08670;P35900}

30709 Pathogen[ Q85601] interacts with 9 human partners: {O75190;P07196;P08670;P14136;P15924;Q7Z3Z0;Q04695;P35527;P35900}

30710 Pathogen[ P14079] interacts with 9 human partners: {P35900;Q7Z3Z0;P15924;O75190;P35527;Q04695;P07196;P14136;P08670}

30711 Pathogen[ P03383] interacts with 9 human partners: {P15924;P08670;Q7Z3Z0;P14136;O75190;P35527;Q04695;P07196;P35900}

30712 Pathogen[ P03410] interacts with 9 human partners: {P15924;Q7Z3Z0;P35527;P07196;O75190;Q04695;P08670;P35900;P14136}

30713 Pathogen[ P14075] interacts with 9 human partners: {Q7Z3Z0;P14136;Q04695;P08670;O75190;P07196;P35900;P35527;P15924}

30714 Pathogen[ P0C206] interacts with 9 human partners: {P07196;P35527;Q7Z3Z0;P14136;P15924;P08670;P35900;O75190;Q04695}

30715 Pathogen[ P03363] interacts with 9 human partners: {O75190;P15924;P35900;P07196;P35527;P08670;P14136;Q7Z3Z0;Q04695}

30716 [Cluster 2793]GO:0001708+P biological\_process [name] cell fate specification [def] "The process involved in the specification of cell identity. Once specification has taken place, a cell will be committed to differentiate down a specific pathway if left in its normal environment." [GOC

30717 Pathogen[ Q2Q067] interacts with 3 human partners: {Q15561;P28069;O43711}

30718 Pathogen[ P0C214] interacts with 3 human partners: {P32243;Q15561;P28069}

30719 Pathogen[ P03346] interacts with 5 human partners: {O43711;Q15561;P28069;P32243;Q9GZV8}

30720 Pathogen[ Q85601] interacts with 4 human partners: {P28069;O43711;P32243;Q15561}

30721 Pathogen[ P14079] interacts with 5 human partners: {Q15561;P28069;O43711;P32243;Q9GZV8}

30722 Pathogen[ P03383] interacts with 4 human partners: {Q15561;P28069;P32243;O43711}

30723 Pathogen[ P03410] interacts with 5 human partners: {P28069;Q9GZV8;Q15561;P32243;O43711}

30724 Pathogen[ P14075] interacts with 4 human partners: {P28069;Q15561;O43711;P32243}

30725 Pathogen[ P0C206] interacts with 5 human partners: {O43711;P32243;P28069;Q9GZV8;Q15561}

30726 Pathogen[ P03363] interacts with 4 human partners: {P32243;P28069;O43711;Q15561}

30727 [Cluster 2794]GO:0030162+P biological\_process [name] regulation of proteolysis [def] "Any process that modulates the frequency, rate or extent of the hydrolysis of a peptide bond or bonds within a protein." [GOC

30728 Pathogen[ Q2Q067] interacts with 7 human partners: {P01009;Q13114;P08697;P50453;P48595;P50452;P35237}

30729 Pathogen[ P0C214] interacts with 25 human partners: {P08697;P35237;Q9UK55;P01011;P29622;P36952;P48594;Q86WD7;P29508;O75830;O75635;A8MV23;P05543;P05546;P01008;P30740;Q96P63;P50453;Q13114;P05120;Q99574;Q9UIV8;Q96P15;P50452;P48595}

30730 Pathogen[ P03346] interacts with 9 human partners: {P50452;P35237;Q13114;O75635;P50453;Q96P63;P01009;Q96P15;P48595}

30731 Pathogen[ Q85601] interacts with 16 human partners: {P50452;P36952;Q96P15;P01011;Q13114;P35237;P08697;P01009;P50453;P05120;P01008;P48595;P30740;O75635;P29508;Q96P63}

30732 Pathogen[ P14079] interacts with 7 human partners: {P35237;P50452;Q4AC94;A4D1B5;P50453;P48595;Q13114}

30733 Pathogen[ P03383] interacts with 12 human partners: {P36952;P08697;P30740;P01009;P01008;P48595;P50453;Q96P63;P35237;P50452;O75635;Q13114}

30734 Pathogen[ P03410] interacts with 15 human partners: {A4D1B5;Q4AC94;Q96P63;P50452;Q96P15;P08697;P36952;P50453;P01009;P35237;O75635;P30740;Q13114;P48595;P01011}

30735 Pathogen[ P14075] interacts with 7 human partners: {P01009;P48595;Q13114;P08697;P50452;P50453;P35237}

30736 Pathogen[ P0C206] interacts with 15 human partners: {P50452;P01008;Q13114;P35237;P01009;P50453;P36952;A4D1B5;Q96P15;O75635;P48595;Q96P63;P01011;P30740;P08697}

30737 Pathogen[ P03363] interacts with 9 human partners: {P35237;P50452;P50453;P36952;Q96P63;O75635;Q96P15;Q13114;P48595}

30738 [Cluster 2795]GO:0060052+P biological\_process [name] neurofilament cytoskeleton organization [def] "A process that is carried out at the cellular level which results in the assembly, arrangement of constituent parts, or disassembly of cytoskeletal structures comprising neurofilaments and their associated proteins." [GOC

30739 Pathogen[ Q2Q067] interacts with 4 human partners: {P12036;Q9P1Q0;Q16352;P07197}

30740 Pathogen[ P0C214] interacts with 4 human partners: {Q16352;P12036;Q9P1Q0;P07197}

30741 Pathogen[ P03346] interacts with 4 human partners: {Q16352;P07197;P12036;Q9P1Q0}

30742 Pathogen[ Q85601] interacts with 5 human partners: {P12036;Q9P1Q0;P07197;Q16352;Q9GZM8}

30743 Pathogen[ P14079] interacts with 4 human partners: {P12036;Q9P1Q0;P07197;Q9GZM8}

30744 Pathogen[ P03383] interacts with 4 human partners: {Q16352;P12036;P07197;Q9P1Q0}

30745 Pathogen[ P03410] interacts with 6 human partners: {P12036;Q9GZM8;Q16352;Q9P1Q0;Q9UBY8;P07197}

30746 Pathogen[ P14075] interacts with 4 human partners:{Q16352;P12036;Q9P1Q0;P07197}  
30747 Pathogen[ P0C206] interacts with 5 human  
partners:{Q9GZM8;Q9P1Q0;P12036;Q16352;P07197}  
30748 Pathogen[ P03363] interacts with 4 human partners:{P07197;Q16352;Q9P1Q0;P12036}  
30749 [Cluster 2796]GO:0071425+P biological\_process [name] hemopoietic stem cell  
proliferation [def] "The expansion of a hemopoietic stem cell population by cell  
division. A hemopoietic stem cell is a stem cell from which all cells of the lymphoid  
and myeloid lineages develop." [CL  
30750 Pathogen[ Q2Q067] interacts with 4 human partners:{O95376;Q01196;Q8N5F7;Q03112}  
30751 Pathogen[ P0C214] interacts with 3 human partners:{Q03112;Q8N5F7;O95376}  
30752 Pathogen[ P03346] interacts with 4 human partners:{O95376;Q8N5F7;Q03112;Q01196}  
30753 Pathogen[ Q85601] interacts with 3 human partners:{Q8N5F7;Q03112;O95376}  
30754 Pathogen[ P14079] interacts with 1 human partners:{Q8N5F7}  
30755 Pathogen[ P03383] interacts with 3 human partners:{Q8N5F7;Q03112;O95376}  
30756 Pathogen[ P03410] interacts with 1 human partners:{Q03112}  
30757 Pathogen[ P14075] interacts with 3 human partners:{Q8N5F7;Q03112;O95376}  
30758 Pathogen[ P0C206] interacts with 3 human partners:{O95376;Q03112;Q8N5F7}  
30759 Pathogen[ P03363] interacts with 3 human partners:{O95376;Q03112;Q8N5F7}  
30760 [Cluster 2797]GO:0048514+P biological\_process [name] blood vessel morphogenesis  
[def] "The process in which the anatomical structures of blood vessels are generated and  
organized. The blood vessel is the vasculature carrying blood." [GOC  
30761 Pathogen[ Q2Q067] interacts with 4 human partners:{O00470;P41134;P08697;O00321}  
30762 Pathogen[ P0C214] interacts with 4 human partners:{O00470;P08697;O00321;P41134}  
30763 Pathogen[ P03346] interacts with 3 human partners:{O00321;P41134;O00470}  
30764 Pathogen[ Q85601] interacts with 4 human partners:{P41134;P08697;O00470;O00321}  
30765 Pathogen[ P14079] interacts with 3 human partners:{O00321;P41134;O00470}  
30766 Pathogen[ P03383] interacts with 3 human partners:{O00470;P08697;O00321}  
30767 Pathogen[ P03410] interacts with 4 human partners:{O00470;P41134;O00321;P08697}  
30768 Pathogen[ P14075] interacts with 3 human partners:{O00470;P08697;O00321}  
30769 Pathogen[ P0C206] interacts with 4 human partners:{O00470;O00321;P41134;P08697}  
30770 Pathogen[ P03363] interacts with 3 human partners:{O00321;P41134;O00470}  
30771 [Cluster 2798]GO:0008608+P biological\_process [name] attachment of spindle  
microtubules to kinetochore [def] "The process in which spindle microtubules become  
physically associated with the proteins making up the kinetochore complex." [GOC  
30772 Pathogen[ Q2Q067] interacts with 4 human partners:{Q5FBB7;O43684;Q8NG31;O14777}  
30773 Pathogen[ P0C214] interacts with 4 human partners:{O43684;Q8NG31;Q5FBB7;O14777}  
30774 Pathogen[ P03346] interacts with 4 human partners:{Q5FBB7;O43684;O14777;Q8NG31}  
30775 Pathogen[ Q85601] interacts with 4 human partners:{Q8NG31;O14777;O43684;Q5FBB7}  
30776 Pathogen[ P14079] interacts with 4 human partners:{Q8NG31;Q5FBB7;O14777;O43684}  
30777 Pathogen[ P03383] interacts with 4 human partners:{Q5FBB7;O43684;Q8NG31;O14777}  
30778 Pathogen[ P03410] interacts with 4 human partners:{O43684;Q8NG31;Q5FBB7;O14777}  
30779 Pathogen[ P14075] interacts with 4 human partners:{O43684;O14777;Q5FBB7;Q8NG31}  
30780 Pathogen[ P0C206] interacts with 4 human partners:{O14777;Q5FBB7;O43684;Q8NG31}  
30781 Pathogen[ P03363] interacts with 4 human partners:{Q5FBB7;O43684;Q8NG31;O14777}  
30782 [Cluster 2799]GO:0002088+P biological\_process [name] lens development in camera-type  
eye [def] "The process whose specific outcome is the progression of the lens over time,  
from its formation to the mature structure. The lens is a transparent structure in the  
eye through which light is focused onto the retina. An example of this process is found  
in *Mus musculus*." [GOC  
30783 Pathogen[ Q2Q067] interacts with 9 human  
partners:{P05813;Q8N196;P02511;Q12959;P55212;O75444;P07315;P07320;P02489}  
30784 Pathogen[ P0C214] interacts with 10 human  
partners:{O75444;P07315;P02489;P02511;P55212;P11844;P05813;Q12959;Q8N196;P07320}  
30785 Pathogen[ P03346] interacts with 12 human  
partners:{Q6T4R5;O75364;P07320;P02489;P55212;O75444;P07316;P02511;Q8N196;P07315;P058  
13;Q12959}  
30786 Pathogen[ Q85601] interacts with 10 human  
partners:{Q8N196;P02489;P07315;O75444;P02511;Q12959;P11844;P55212;P07320;P05813}  
30787 Pathogen[ P14079] interacts with 13 human  
partners:{P07320;P07316;Q6T4R5;P05813;Q8N196;P11844;P02511;P02489;I3L1E1;P55212;P229  
14;O75444;P07315}  
30788 Pathogen[ P03383] interacts with 8 human  
partners:{P55212;P11844;P02511;P07320;Q8N196;O75444;P05813;P07315}  
30789 Pathogen[ P03410] interacts with 14 human  
partners:{P07315;Q6T4R5;Q12959;P11844;O75444;P07320;I3L1E1;P02489;P02511;Q8N196;P058  
13;P07316;P55212;P22914}  
30790 Pathogen[ P14075] interacts with 9 human  
partners:{Q8N196;P07320;O75444;P55212;P05813;P11844;Q6T4R5;P02511;P07315}  
30791 Pathogen[ P0C206] interacts with 13 human  
partners:{O75444;I3L1E1;P55212;Q8N196;P07320;P07315;P05813;P11844;Q6T4R5;P07316;P025  
11;P02489;Q12959}  
30792 Pathogen[ P03363] interacts with 11 human  
partners:{Q12959;P07316;Q8N196;P11844;P55212;P07320;Q6T4R5;O75444;P07315;P02489;P058  
13}  
30793 [Cluster 2800]GO:2001022+P biological\_process [name] positive regulation of response  
to DNA damage stimulus [def] "Any process that activates or increases the frequency,

rate or extent of response to DNA damage stimulus." [GOC  
30794 Pathogen[ Q2Q067] interacts with 3 human partners:{P01106;Q9NYF8;Q9NXX6}  
30795 Pathogen[ POC214] interacts with 3 human partners:{Q9NXX6;P01106;Q9NYF8}  
30796 Pathogen[ P03346] interacts with 4 human partners:{Q8WV22;P01106;Q9NYF8;Q9NXX6}  
30797 Pathogen[ Q85601] interacts with 4 human partners:{P01106;Q9NXX6;Q8WV22;Q9NYF8}  
30798 Pathogen[ P14079] interacts with 3 human partners:{Q9NYF8;P01106;Q9NXX6}  
30799 Pathogen[ P03383] interacts with 3 human partners:{Q9NXX6;P01106;Q9NYF8}  
30800 Pathogen[ P03410] interacts with 3 human partners:{P01106;Q9NXX6;Q9NYF8}  
30801 Pathogen[ P14075] interacts with 3 human partners:{Q9NYF8;P01106;Q9NXX6}  
30802 Pathogen[ POC206] interacts with 4 human partners:{Q8WV22;Q9NYF8;P01106;Q9NXX6}  
30803 Pathogen[ P03363] interacts with 4 human partners:{Q9NXX6;P01106;Q9NYF8;Q8WV22}  
30804 [Cluster 2801]GO:0032435+P biological\_process [name] negative regulation of proteasomal ubiquitin-dependent protein catabolic process [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the breakdown of a protein or peptide by hydrolysis of its peptide bonds, initiated by the covalent attachment of ubiquitin, and mediated by the proteasome." [GOC  
30805 Pathogen[ Q2Q067] interacts with 5 human partners:{Q16594;P08238;Q04323;O75113;Q9BTA9}  
30806 Pathogen[ POC214] interacts with 5 human partners:{P46379;Q16594;Q04323;O75113;Q9BTA9}  
30807 Pathogen[ P03346] interacts with 7 human partners:{O14908;P46379;Q04323;O75113;P08238;Q9BTA9;Q16594}  
30808 Pathogen[ Q85601] interacts with 6 human partners:{P46379;Q9BTA9;Q16594;Q04323;P08238;O75113}  
30809 Pathogen[ P14079] interacts with 6 human partners:{Q16594;Q9BTA9;P08238;O14908;Q04323;O75113}  
30810 Pathogen[ P03383] interacts with 5 human partners:{Q9BTA9;Q04323;Q16594;O75113;P08238}  
30811 Pathogen[ P03410] interacts with 6 human partners:{P08238;O14908;Q04323;Q16594;Q9BTA9;O75113}  
30812 Pathogen[ P14075] interacts with 5 human partners:{P08238;Q04323;Q16594;Q9BTA9;O75113}  
30813 Pathogen[ POC206] interacts with 7 human partners:{Q04323;P08238;O75113;O14908;Q9BTA9;P46379;Q16594}  
30814 Pathogen[ P03363] interacts with 7 human partners:{P46379;O14908;Q04323;O75113;P08238;Q9BTA9;Q16594}  
30815 [Cluster 2802]GO:0042755+P biological\_process [name] eating behavior [def] "The specific actions or reactions of an organism relating to the intake of food, any substance (usually solid) that can be metabolized by an organism to give energy and build tissue." [GOC  
30816 Pathogen[ Q2Q067] interacts with 2 human partners:{P40763;Q3C1V8}  
30817 Pathogen[ POC214] interacts with 2 human partners:{P40763;Q3C1V8}  
30818 Pathogen[ P03346] interacts with 2 human partners:{Q3C1V8;P40763}  
30819 Pathogen[ Q85601] interacts with 2 human partners:{P40763;Q3C1V8}  
30820 Pathogen[ P14079] interacts with 4 human partners:{P20396;Q3C1V8;O43612;P81277}  
30821 Pathogen[ P03383] interacts with 1 human partners:{Q3C1V8}  
30822 Pathogen[ P03410] interacts with 5 human partners:{O43612;Q3C1V8;P81277;P40763;P20396}  
30823 Pathogen[ P14075] interacts with 1 human partners:{Q3C1V8}  
30824 Pathogen[ POC206] interacts with 3 human partners:{Q3C1V8;P40763;P20396}  
30825 Pathogen[ P03363] interacts with 1 human partners:{Q3C1V8}  
30826 [Cluster 2803]GO:0006909+P biological\_process [name] phagocytosis [def] "An endocytosis process that results in the engulfment of external particulate material by phagocytes. The particles are initially contained within phagocytic vacuoles (phagosomes), which then fuse with primary lysosomes to effect digestion of the particles." [ISBN  
30827 Pathogen[ Q2Q067] interacts with 8 human partners:{P50995;Q15744;Q8N336;P23769;Q02556;Q92556;Q9NRR3;Q96JJ3}  
30828 Pathogen[ POC214] interacts with 8 human partners:{Q9NRR3;Q9NRR8;P23769;Q8N336;Q02556;Q92556;Q96JJ3;P50995}  
30829 Pathogen[ P03346] interacts with 10 human partners:{Q9NRR3;P23769;Q8N336;Q96JJ3;Q02556;Q15744;P50995;P01858;Q70J99;Q92556}  
30830 Pathogen[ Q85601] interacts with 6 human partners:{Q02556;P50995;P23769;Q96JJ3;Q9NRR3;Q15744}  
30831 Pathogen[ P14079] interacts with 12 human partners:{Q9NRR3;P50995;Q9NRR8;Q92556;Q8N336;Q96JJ3;Q96BJ8;Q15744;Q96FG2;Q02556;P23769;P01858}  
30832 Pathogen[ P03383] interacts with 4 human partners:{P50995;P23769;Q9NRR3;Q02556}  
30833 Pathogen[ P03410] interacts with 13 human partners:{P01858;P50995;Q70J99;Q9NRR3;Q8N336;Q02556;Q96FG2;Q92556;Q96BJ8;P23769;Q15744;Q96JJ3;Q9NRR8}  
30834 Pathogen[ P14075] interacts with 7 human partners:{P23769;Q8N336;Q02556;P50995;P01858;Q9NRR3;Q9NRR8}  
30835 Pathogen[ POC206] interacts with 10 human partners:{Q92556;Q15744;Q9NRR8;P01858;P50995;Q9NRR3;Q02556;Q96JJ3;Q8N336;P23769}  
30836 Pathogen[ P03363] interacts with 8 human

30837 partners:{Q02556;Q15744;P01858;Q8N336;P50995;Q92556;Q96JJ3;Q9NRR3}  
[Cluster 2804]GO:0001503+P biological\_process [name] ossification [def] "The formation of bone or of a bony substance, or the conversion of fibrous tissue or of cartilage into bone or a bony substance." [GOC

30838 Pathogen[ Q2Q067] interacts with 10 human  
30839 partners:{P10827;P13349;Q02447;P08047;P35548;O00255;Q13951;Q5TAB7;P63173;Q99717}  
Pathogen[ P0C214] interacts with 11 human  
30840 partners:{O95633;P13349;Q8WXG1;Q5TAB7;P63173;Q02447;Q99717;P35548;P08047;O00255;Q13951}  
Pathogen[ P03346] interacts with 13 human  
30841 partners:{P10827;P63173;P35548;P13349;P15173;Q99717;P08047;O00255;Q13951;P56178;Q5TAB7;Q02447;O95633}  
Pathogen[ Q85601] interacts with 10 human  
30842 partners:{P63173;P13349;Q13951;P08047;Q99717;P35548;O00255;P10827;Q02447;Q5TAB7}  
Pathogen[ P14079] interacts with 14 human  
30843 partners:{P02808;P13164;P13349;Q9NR12;Q02447;P10827;P45983;P63173;Q13316;Q9UNW1;Q5TAB7;O00255;Q13951;Q8WXG1}  
Pathogen[ P03383] interacts with 8 human  
30844 partners:{Q5TAB7;P08047;P63173;P35548;Q02447;Q13951;Q99717;O00255}  
Pathogen[ P03410] interacts with 14 human  
30845 partners:{P02808;Q5TAB7;Q02447;Q99717;P63173;Q9BQB4;Q8WXG1;P35548;P13349;Q13951;Q9UNW1;P08047;O00255;Q13316}  
Pathogen[ P14075] interacts with 9 human  
30846 partners:{Q13951;Q5TAB7;P35548;Q99717;O00255;P63173;Q02447;P02808;P08047}  
Pathogen[ P0C206] interacts with 14 human  
30847 partners:{O95633;O00255;Q99717;Q13951;Q13316;P08047;P13349;P35548;Q02447;Q5TAB7;P02808;P63173;Q8WXG1;P10827}  
Pathogen[ P03363] interacts with 10 human  
30848 partners:{P02808;P63173;Q02447;P35548;P13349;Q13951;Q5TAB7;P08047;Q9NR12;Q99717}  
[Cluster 2805]GO:0030097+P biological\_process [name] hemopoiesis [def] "The process whose specific outcome is the progression of the myeloid and lymphoid derived organ/tissue systems of the blood and other parts of the body over time, from formation to the mature structure. The site of hemopoiesis is variable during development, but occurs primarily in bone marrow or kidney in many adult vertebrates." [GOC

30849 Pathogen[ Q2Q067] interacts with 24 human  
30850 partners:{Q6FI81;O00470;P27694;Q16666;P35712;Q01196;Q05516;P17483;Q8N5F7;O95394;Q9HCG1;P55347;Q9P243;O00255;P35226;O00321;Q9NNW7;Q9GZN7;Q8IXT1;Q9UBL3;Q9Y468;Q99814;Q9NZD4;Q00534}  
Pathogen[ P0C214] interacts with 21 human  
30851 partners:{O00470;P35226;P55347;O00321;Q8N5F7;Q9NNW7;Q16666;Q9Y468;Q00534;Q9NZD4;Q8IXT1;O95394;Q99814;Q9HCG1;Q9GZN7;P27694;Q9P243;Q6FI81;P35712;Q05516;O00255}  
Pathogen[ P03346] interacts with 31 human  
30852 partners:{Q16666;P02549;P11277;P27694;P35226;Q9NZD4;O00321;Q9HCG1;Q9UBL3;Q8N5F7;Q9H165;P17483;Q9P243;P17542;O00255;P51587;O00470;Q9GZN7;Q99814;Q9Y2Y4;Q9Y468;Q13492;Q05516;P35712;P55347;O95394;Q01196;Q00534;Q8IXT1;Q6FI81;Q9NNW7}  
Pathogen[ Q85601] interacts with 21 human  
30853 partners:{Q9HCG1;Q16666;Q8N5F7;Q9Y468;Q9Y2Y4;P35712;Q99814;Q6FI81;P27694;Q9UBL3;O00255;O00470;Q9NZD4;Q05516;P55347;O95394;P35226;Q9P243;Q00534;P51587;O00321}  
Pathogen[ P14079] interacts with 29 human  
30854 partners:{Q13492;Q14004;Q9Y2Y4;Q99814;O00321;Q9HCG1;Q9Y6A5;Q9UBL3;P55347;Q9Y468;P35712;P51587;Q05516;Q6FI81;O95394;Q8IXT1;Q9NNW7;Q9GZN7;Q9NZD4;Q9P243;P11277;P35226;P27694;Q99439;O00470;P02549;O00255;Q16666;Q8N5F7}  
Pathogen[ P03383] interacts with 18 human  
30855 partners:{O00470;Q8IXT1;P35712;Q9GZN7;P27694;Q8N5F7;Q05516;Q00534;O00321;P55347;Q9HCG1;O00255;Q16666;O95394;Q6FI81;P35226;Q9Y468;Q9NZD4}  
Pathogen[ P03410] interacts with 27 human  
30856 partners:{Q9HCG1;P35712;Q16666;O00470;Q00534;Q99814;Q9Y468;O00321;Q9Y6A5;Q9P243;P02549;Q13492;Q99439;P51587;Q8IXT1;Q6FI81;P55347;Q9Y2Y4;P27694;P35226;O00255;O95394;P11277;Q9GZN7;Q9NZD4;Q16635;Q9NNW7}  
Pathogen[ P14075] interacts with 18 human  
30857 partners:{Q8IXT1;O00470;Q8N5F7;Q9Y468;Q00534;Q16666;P55347;O00255;Q9HCG1;P35712;P27694;O95394;P35226;Q05516;Q9GZN7;Q6FI81;Q9NZD4;O00321}  
Pathogen[ P0C206] interacts with 29 human  
30858 partners:{Q9Y468;Q6FI81;Q9GZN7;Q9P243;P51587;Q05516;O00470;P35226;O00255;O95394;Q16666;Q8IXT1;Q9HCG1;P17483;O00321;Q9NNW7;Q9Y6A5;Q9H165;Q8N5F7;Q13422;Q9UBL3;P35712;P11277;P27694;Q99814;Q9NZD4;Q00534;Q9Y2Y4;P55347}  
Pathogen[ P03363] interacts with 24 human  
30859 partners:{P27694;P11277;P02549;Q9Y468;Q9NNW7;Q9P243;Q9UBL3;Q6FI81;P55347;P17483;O00321;Q16666;Q00534;Q8N5F7;P35226;O00470;Q99814;Q9NZD4;P35712;Q9Y2Y4;Q9HCG1;Q05516;Q9GZN7;Q8IXT1}  
[Cluster 2806]GO:0045585+P biological\_process [name] positive regulation of cytotoxic T cell differentiation [def] "Any process that activates or increases the frequency, rate or extent of cytotoxic T cell differentiation." [GOC

30860 Pathogen[ Q2Q067] interacts with 1 human partners:{O43290}  
30861 Pathogen[ P0C214] interacts with 1 human partners:{O43290}  
30862 Pathogen[ P03346] interacts with 1 human partners:{O43290}

30863 Pathogen[ Q85601] interacts with 1 human partners:{043290}  
30864 Pathogen[ P14079] interacts with 1 human partners:{043290}  
30865 Pathogen[ P03383] interacts with 1 human partners:{043290}  
30866 Pathogen[ P03410] interacts with 1 human partners:{043290}  
30867 Pathogen[ P14075] interacts with 1 human partners:{043290}  
30868 Pathogen[ P0C206] interacts with 1 human partners:{043290}  
30869 Pathogen[ P03363] interacts with 1 human partners:{043290}  
30870 [Cluster 2807]GO:0046831+P biological\_process [name] regulation of RNA export from nucleus [def] "Any process that modulates the frequency, rate or extent of the directed movement of RNA from the nucleus to the cytoplasm." [GOC  
30871 Pathogen[ Q2Q067] interacts with 1 human partners:{Q07666}  
30872 Pathogen[ P0C214] interacts with 1 human partners:{Q07666}  
30873 Pathogen[ P03346] interacts with 1 human partners:{Q07666}  
30874 Pathogen[ Q85601] interacts with 1 human partners:{Q07666}  
30875 Pathogen[ P14079] interacts with 2 human partners:{Q07666;Q9NZJ9}  
30876 Pathogen[ P03383] interacts with 1 human partners:{Q07666}  
30877 Pathogen[ P03410] interacts with 2 human partners:{Q07666;Q9NZJ9}  
30878 Pathogen[ P14075] interacts with 1 human partners:{Q07666}  
30879 Pathogen[ P0C206] interacts with 1 human partners:{Q07666}  
30880 Pathogen[ P03363] interacts with 1 human partners:{Q07666}  
30881 [Cluster 2808]GO:0055072+P biological\_process [name] iron ion homeostasis [def] "Any process involved in the maintenance of an internal steady state of iron ions within an organism or cell." [GOC  
30882 Pathogen[ Q2Q067] interacts with 2 human partners:{P02792;Q6ZVN8}  
30883 Pathogen[ P0C214] interacts with 4 human partners:{Q9UKA1;Q6ZVN8;P02792;P22830}  
30884 Pathogen[ P03346] interacts with 4 human partners:{P02792;Q6ZVN8;P16452;Q9UKA1}  
30885 Pathogen[ Q85601] interacts with 2 human partners:{Q9UKA1;P02792}  
30886 Pathogen[ P14079] interacts with 3 human partners:{P16452;Q6ZVN8;P22830}  
30887 Pathogen[ P03383] interacts with 1 human partners:{Q6ZVN8}  
30888 Pathogen[ P03410] interacts with 4 human partners:{P16452;Q6ZVN8;P22830;P02792}  
30889 Pathogen[ P14075] interacts with 1 human partners:{Q6ZVN8}  
30890 Pathogen[ P0C206] interacts with 5 human partners:{Q9UKA1;Q6ZVN8;P16452;P22830;P02792}  
30891 Pathogen[ P03363] interacts with 3 human partners:{Q6ZVN8;Q9UKA1;P16452}  
30892 [Cluster 2809]GO:0070861+P biological\_process [name] regulation of protein exit from endoplasmic reticulum [def] "Any process that modulates the frequency, rate or extent of the directed movement of proteins from the endoplasmic reticulum." [GOC  
30893 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8IWIJ2}  
30894 Pathogen[ P0C214] interacts with 1 human partners:{Q8IWIJ2}  
30895 Pathogen[ P03346] interacts with 1 human partners:{Q8IWIJ2}  
30896 Pathogen[ Q85601] interacts with 1 human partners:{Q8IWIJ2}  
30897 Pathogen[ P14079] interacts with 1 human partners:{Q8IWIJ2}  
30898 Pathogen[ P03383] interacts with 1 human partners:{Q8IWIJ2}  
30899 Pathogen[ P03410] interacts with 1 human partners:{Q8IWIJ2}  
30900 Pathogen[ P14075] interacts with 1 human partners:{Q8IWIJ2}  
30901 Pathogen[ P0C206] interacts with 1 human partners:{Q8IWIJ2}  
30902 Pathogen[ P03363] interacts with 1 human partners:{Q8IWIJ2}  
30903 [Cluster 2810]GO:0007000+P biological\_process [name] nucleolus organization [def] "A process that is carried out at the cellular level which results in the assembly, arrangement of constituent parts, or disassembly the nucleolus." [GOC  
30904 Pathogen[ Q2Q067] interacts with 3 human partners:{O00541;Q14978;Q9NYV6}  
30905 Pathogen[ P0C214] interacts with 3 human partners:{O00541;Q14978;Q9NYV6}  
30906 Pathogen[ P03346] interacts with 3 human partners:{O00541;Q14978;Q9NYV6}  
30907 Pathogen[ Q85601] interacts with 3 human partners:{Q14978;O00541;Q9NYV6}  
30908 Pathogen[ P14079] interacts with 3 human partners:{Q9NYV6;O00541;Q14978}  
30909 Pathogen[ P03383] interacts with 3 human partners:{Q14978;Q9NYV6;O00541}  
30910 Pathogen[ P03410] interacts with 3 human partners:{Q14978;Q9NYV6;O00541}  
30911 Pathogen[ P14075] interacts with 3 human partners:{Q9NYV6;O00541;Q14978}  
30912 Pathogen[ P0C206] interacts with 3 human partners:{O00541;Q9NYV6;Q14978}  
30913 Pathogen[ P03363] interacts with 3 human partners:{Q14978;Q9NYV6;O00541}  
30914 [Cluster 2811]GO:0050896+P biological\_process [name] response to stimulus [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a stimulus. The process begins with detection of the stimulus and ends with a change in state or activity of the cell or organism." [GOC  
30915 Pathogen[ Q2Q067] interacts with 12 human partners:{Q96IS3;Q3B820;Q96EV8;Q13432;P54845;O43924;O43186;P58304;Q3SYG4;P07320;P02489;Q16526}  
30916 Pathogen[ P0C214] interacts with 13 human partners:{P02489;O43186;Q13515;P18545;Q3SYG4;Q49AN0;Q96EV8;Q16526;Q13956;Q3B820;P54845;P07320;Q13432}  
30917 Pathogen[ P03346] interacts with 21 human partners:{Q9NZR4;Q13515;P07320;P02489;P54845;Q49AN0;O43186;Q16526;P58304;Q96KN7;Q8N8E2;Q13432;Q96EV8;Q3SYG4;Q3B820;P78411;Q96IS3;Q8NI36;Q8IWN7;Q92834;O43924}  
30918 Pathogen[ Q85601] interacts with 15 human partners:{P02489;O43924;P54845;Q49AN0;Q96IS3;Q92834;Q13515;Q96EV8;P58304;Q3B820;Q3SY



30961 X4;Q96T23;Q9HAW0;Q15543;Q6SJ96}  
Pathogen[ P03346] interacts with 28 human  
partners:{Q6SJ96;Q9Y6J9;Q8N2Z9;Q15542;O75486;O00268;Q92750;P20226;P62380;P49848;O60264;Q9HBM6;Q16514;Q96T23;Q92541;Q12962;Q92994;P21675;Q9NYV6;Q8WUY8;Q8IZX4;Q00403;Q15545;P15884;Q9HAW0;Q14686;Q16594;Q15543}

30962 Pathogen[ Q85601] interacts with 27 human  
partners:{Q15542;Q92994;Q96T23;Q15545;O00268;Q9HAW0;Q16594;Q8IZX4;Q9Y6J9;Q9HBM6;Q14686;Q92541;P49848;Q6SJ96;Q16514;Q00403;Q8N2Z9;Q9NYV6;Q92750;P21675;Q12962;O75486;Q15543;O60264;P62380;P15884;P20226}

30963 Pathogen[ P14079] interacts with 27 human  
partners:{Q96T23;Q92994;Q8IZX4;Q9NYV6;Q9Y6J9;Q16594;Q92541;P62380;Q00403;Q15543;Q12962;P49848;Q8N2Z9;Q92750;Q9HAW0;Q8WUY8;O60264;Q6SJ96;P15884;Q16514;O75486;Q14686;Q15542;P21675;O00268;Q9HBM6;Q15545}

30964 Pathogen[ P03383] interacts with 25 human  
partners:{Q9Y6J9;Q8N2Z9;Q9NYV6;O75486;Q9HAW0;Q14686;Q15542;Q9HBM6;Q8IZX4;Q96T23;Q00403;P20226;Q16594;Q92994;P49848;Q6SJ96;O00268;Q16514;Q92750;P21675;Q92541;Q8WUY8;Q12962;Q15545;Q15543}

30965 Pathogen[ P03410] interacts with 28 human  
partners:{Q9HAW0;Q8IZX4;Q96T23;O00268;Q92994;Q15543;Q92750;Q12962;P21675;Q14686;P15884;P62380;P20226;Q92541;O75486;Q9NYV6;Q9HBM6;Q6SJ96;Q16514;P49848;Q00403;Q9Y6J9;Q16594;Q15542;O60264;Q8WUY8;Q15545;Q8N2Z9}

30966 Pathogen[ P14075] interacts with 26 human  
partners:{Q9Y6J9;Q12962;P21675;Q15542;Q9NYV6;Q14686;Q00403;Q92994;Q9HAW0;P20226;Q16594;Q6SJ96;Q92750;Q8N2Z9;Q92541;P49848;Q16514;Q8WUY8;Q15545;O00268;Q96T23;P15884;O75486;Q8IZX4;Q15543;Q9HBM6}

30967 Pathogen[ P0C206] interacts with 28 human  
partners:{O75486;Q15545;Q16514;Q15543;P49848;Q9HAW0;P20226;P62380;O00268;Q92541;Q96T23;Q9Y6J9;Q8IZX4;Q92750;Q14686;Q8WUY8;P15884;Q15542;Q6SJ96;Q9HBM6;Q92994;Q12962;Q8N2Z9;Q00403;Q9NYV6;P21675;O60264;Q16594}

30968 Pathogen[ P03363] interacts with 25 human  
partners:{Q8IZX4;Q6SJ96;P62380;P49848;Q16514;Q15545;Q8N2Z9;O00268;Q14686;O60264;Q12962;Q96T23;Q00403;Q9NYV6;Q15542;Q92750;P21675;Q9HBM6;P20226;Q92541;P15884;O75486;Q15543;Q9Y6J9;Q16594}

30969 [Cluster 2816]GO:0021555+P biological\_process [name] midbrain-hindbrain boundary morphogenesis [def] "The process in which the anatomical structure of the midbrain-hindbrain boundary is generated and organized. The midbrain-hindbrain domain of the embryonic brain is comprised of the mesencephalic vesicle and the first rhombencephalic vesicle at early somitogenesis stages. An organizing center at the boundary patterns the midbrain and hindbrain primordia of the neural plate." [GO\_REF]

30970 Pathogen[ Q2Q067] interacts with 2 human partners:{Q8NHM5;Q5TGS1}

30971 Pathogen[ P0C214] interacts with 2 human partners:{Q5TGS1;Q8NHM5}

30972 Pathogen[ P03346] interacts with 3 human partners:{P52951;Q5TGS1;Q8NHM5}

30973 Pathogen[ Q85601] interacts with 2 human partners:{Q5TGS1;Q8NHM5}

30974 Pathogen[ P14079] interacts with 2 human partners:{Q8NHM5;Q5TGS1}

30975 Pathogen[ P03383] interacts with 1 human partners:{Q5TGS1}

30976 Pathogen[ P03410] interacts with 1 human partners:{Q5TGS1}

30977 Pathogen[ P14075] interacts with 1 human partners:{Q5TGS1}

30978 Pathogen[ P0C206] interacts with 2 human partners:{Q5TGS1;Q8NHM5}

30979 Pathogen[ P03363] interacts with 2 human partners:{Q5TGS1;P52951}

30980 [Cluster 2817]GO:0001501+P biological\_process [name] skeletal system development [def] "The process whose specific outcome is the progression of the skeleton over time, from its formation to the mature structure. The skeleton is the bony framework of the body in vertebrates (endoskeleton) or the hard outer envelope of insects (exoskeleton or dermoskeleton)." [GOC]

30981 Pathogen[ Q2Q067] interacts with 21 human  
partners:{Q13118;Q92890;P56524;Q9UHF7;Q01196;Q05516;O15266;P09017;O43248;Q15561;Q06830;Q13428;P20719;P15036;P84022;Q96AP0;P0DI81;P35226;P78337;Q9UMX1;P31260}

30982 Pathogen[ P0C214] interacts with 16 human  
partners:{P35226;Q9UHF7;P78337;Q15486;O15266;P84022;P56524;O43248;Q06830;Q13428;Q15561;P0DI81;Q92890;P15036;Q9UMX1;Q05516}

30983 Pathogen[ P03346] interacts with 34 human  
partners:{P31271;Q06945;Q96AP0;P15863;Q9UHF7;P35453;P31260;P78337;Q05925;P31270;P35226;P56524;O60902;P20719;Q15561;P28358;P84022;O15266;Q13118;P09017;P0DI81;Q13428;P78367;Q05516;Q06830;Q01196;P56178;Q9P2D1;Q7Z5J4;Q9UMX1;Q92890;P15036;O43248;P35452}

30984 Pathogen[ Q85601] interacts with 20 human  
partners:{Q9UHF7;P15036;Q15486;Q9P2D1;O43248;P78337;P31260;O15266;Q13428;P0DI81;Q13118;Q05516;P84022;Q06830;P31271;P56524;P35226;Q92890;Q9UMX1;Q15561}

30985 Pathogen[ P14079] interacts with 20 human  
partners:{P15036;Q15561;P78337;Q13118;Q9UMX1;Q13428;Q05516;P57679;P31271;Q92890;Q9P2D1;Q9Y6X1;O15266;Q9NQ76;P35226;Q15486;P0DI81;P56524;Q9UHF7;Q96AP0}

30986 Pathogen[ P03383] interacts with 13 human  
partners:{Q15561;O15266;P15036;Q05516;P78337;Q13428;P84022;P0DI81;P56524;Q9UMX1;Q9UHF7;Q92890;P35226}

30987 Pathogen[ P03410] interacts with 20 human  
partners:{P84022;Q9UHF7;O14960;Q96AP0;O15266;P0DI81;Q15486;Q9Y6X1;Q15561;P15036;Q9P2D1;P56524;Q13118;Q9NQ76;Q13428;P35226;Q9UMX1;Q92890;Q06830;P78337}



30988 Pathogen[ P14075] interacts with 14 human partners: {P78337;Q15561;P56524;Q92890;Q96AP0;P15036;Q9UHF7;P0DI81;Q13428;P35226;Q05516;O15266;P84022;Q9UMX1}

30989 Pathogen[ P0C206] interacts with 23 human partners: {P84022;Q92890;Q96AP0;O15266;Q9UMX1;Q05516;P35226;Q9P2D1;P78337;O43248;Q7Z5J4;Q13428;Q9UHF7;Q15486;P15036;P31271;P56524;P20719;Q13118;Q06830;Q15561;P31260;P0DI81}

30990 Pathogen[ P03363] interacts with 26 human partners: {P56179;O15266;P35453;Q9UHF7;Q13428;Q9UMX1;P0DI81;P20719;P31271;O60902;O43248;Q92890;Q96AP0;P28358;P35226;P31260;P84022;Q05925;P78367;P35452;P09017;P78337;Q05516;Q15561;P15036;Q13118}

30991 [Cluster 2818]GO:0071353+P biological\_process [name] cellular response to interleukin-4 [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an interleukin-4 stimulus." [GOC

30992 Pathogen[ Q2Q067] interacts with 1 human partners: {P36402}

30993 Pathogen[ P0C214] interacts with 1 human partners: {P36402}

30994 Pathogen[ P03346] interacts with 1 human partners: {P36402}

30995 Pathogen[ Q85601] interacts with 1 human partners: {P36402}

30996 Pathogen[ P14079] interacts with 2 human partners: {Q9H295;P36402}

30997 Pathogen[ P03383] interacts with 1 human partners: {P36402}

30998 Pathogen[ P03410] interacts with 1 human partners: {P36402}

30999 Pathogen[ P14075] interacts with 1 human partners: {P36402}

31000 Pathogen[ P0C206] interacts with 1 human partners: {P36402}

31001 Pathogen[ P03363] interacts with 1 human partners: {P36402}

31002 [Cluster 2819]GO:0008593+P biological\_process [name] regulation of Notch signaling pathway [def] "Any process that modulates the frequency, rate or extent of the Notch signaling pathway." [GOC

31003 Pathogen[ Q2Q067] interacts with 1 human partners: {Q86Y01}

31004 Pathogen[ P0C214] interacts with 1 human partners: {Q86Y01}

31005 Pathogen[ P03346] interacts with 1 human partners: {Q86Y01}

31006 Pathogen[ Q85601] interacts with 1 human partners: {Q86Y01}

31007 Pathogen[ P14079] interacts with 2 human partners: {Q86Y01;Q8NBL1}

31008 Pathogen[ P03383] interacts with 1 human partners: {Q86Y01}

31009 Pathogen[ P03410] interacts with 1 human partners: {Q86Y01}

31010 Pathogen[ P14075] interacts with 1 human partners: {Q86Y01}

31011 Pathogen[ P0C206] interacts with 1 human partners: {Q86Y01}

31012 Pathogen[ P03363] interacts with 1 human partners: {Q86Y01}

31013 [Cluster 2820]GO:0032570+P biological\_process [name] response to progesterone stimulus [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a progesterone stimulus." [GOC

31014 Pathogen[ Q2Q067] interacts with 7 human partners: {P01100;Q04206;P36956;P24864;P27986;P15407;Q9H3M7}

31015 Pathogen[ P0C214] interacts with 8 human partners: {P15407;Q9H3M7;P01100;P17275;Q04206;P24864;O15524;P27986}

31016 Pathogen[ P03346] interacts with 10 human partners: {O15524;Q15788;P36956;P17275;Q04206;P24864;P15407;P01100;Q9H3M7;P27986}

31017 Pathogen[ Q85601] interacts with 8 human partners: {P15407;P27986;P01100;P36956;Q04206;P17275;Q9H3M7;P24864}

31018 Pathogen[ P14079] interacts with 7 human partners: {P24864;P17275;Q15788;P15407;Q9H3M7;P36956;P01100}

31019 Pathogen[ P03383] interacts with 7 human partners: {P27986;P15407;P01100;Q9H3M7;Q04206;P24864;P17275}

31020 Pathogen[ P03410] interacts with 8 human partners: {Q04206;P36956;P27986;Q9H3M7;P01100;P17275;P15407;P24864}

31021 Pathogen[ P14075] interacts with 7 human partners: {Q04206;P17275;P27986;Q9H3M7;P01100;P15407;P24864}

31022 Pathogen[ P0C206] interacts with 10 human partners: {P15407;P17275;P36956;O15524;P27986;P01100;Q04206;Q9H3M7;P24864;Q15788}

31023 Pathogen[ P03363] interacts with 8 human partners: {Q04206;P24864;O15524;Q9H3M7;P17275;P15407;P27986;P01100}

31024 [Cluster 2821]GO:0050769+P biological\_process [name] positive regulation of neurogenesis [def] "Any process that activates or increases the frequency, rate or extent of neurogenesis, the origin and formation of neurons." [GOC

31025 Pathogen[ Q2Q067] interacts with 5 human partners: {Q13573;Q96T58;Q13426;P12956;P13010}

31026 Pathogen[ P0C214] interacts with 5 human partners: {Q96T58;Q13573;P13010;Q13426;P12956}

31027 Pathogen[ P03346] interacts with 7 human partners: {P12956;Q13426;P13010;Q96T58;Q13573;Q9Y6R0;O43543}

31028 Pathogen[ Q85601] interacts with 5 human partners: {Q13573;Q13426;Q96T58;P13010;P12956}

31029 Pathogen[ P14079] interacts with 7 human partners: {P13010;Q13573;P12956;O43543;Q13426;P49917;Q96T58}

31030 Pathogen[ P03383] interacts with 5 human

31031 Pathogen[ P03410] interacts with 6 human partners:{Q13573;P13010;Q13426;Q96T58;P12956}

31032 Pathogen[ P14075] interacts with 5 human partners:{Q96T58;P12956;Q13426;P13010;O43543;Q13573}

31033 Pathogen[ P0C206] interacts with 7 human partners:{P12956;Q13573;Q96T58;Q13426;P13010}

31034 Pathogen[ P03363] interacts with 6 human partners:{P13010;P49917;Q13573;Q13426;Q96T58;O43543;P12956}

31035 [Cluster 2822]GO:0007528+P biological\_process [name] neuromuscular junction development [def] "The process whose specific outcome is the progression of the neuromuscular junction over time, from its formation to the mature structure." [GOC]

31036 Pathogen[ Q2Q067] interacts with 2 human partners:{Q53G26;Q96EY1}

31037 Pathogen[ P0C214] interacts with 2 human partners:{Q53G26;Q96EY1}

31038 Pathogen[ P03346] interacts with 3 human partners:{Q13424;Q53G26;Q96EY1}

31039 Pathogen[ Q85601] interacts with 2 human partners:{Q53G26;Q96EY1}

31040 Pathogen[ P14079] interacts with 2 human partners:{Q13424;Q96EY1}

31041 Pathogen[ P03383] interacts with 2 human partners:{Q96EY1;Q53G26}

31042 Pathogen[ P03410] interacts with 3 human partners:{Q53G26;Q13424;Q96EY1}

31043 Pathogen[ P14075] interacts with 2 human partners:{Q53G26;Q96EY1}

31044 Pathogen[ P0C206] interacts with 3 human partners:{Q53G26;Q13424;Q96EY1}

31045 Pathogen[ P03363] interacts with 3 human partners:{Q53G26;Q96EY1;Q13424}

31046 [Cluster 2823]GO:0001711+P biological\_process [name] endodermal cell fate commitment [def] "The cell differentiation process that results in commitment of a cell to become part of the endoderm." [GOC]

31047 Pathogen[ Q2Q067] interacts with 5 human partners:{Q8WVC0;Q6PD62;Q6P1J9;Q92541;Q8N7H5}

31048 Pathogen[ P0C214] interacts with 5 human partners:{Q92541;Q6P1J9;Q8N7H5;Q8WVC0;Q6PD62}

31049 Pathogen[ P03346] interacts with 5 human partners:{Q6PD62;Q8WVC0;Q92541;Q6P1J9;Q8N7H5}

31050 Pathogen[ Q85601] interacts with 5 human partners:{Q6PD62;Q8WVC0;Q6P1J9;Q92541;Q8N7H5}

31051 Pathogen[ P14079] interacts with 5 human partners:{Q92541;Q6PD62;Q8WVC0;Q6P1J9;Q8N7H5}

31052 Pathogen[ P03383] interacts with 5 human partners:{Q6P1J9;Q6PD62;Q8WVC0;Q92541;Q8N7H5}

31053 Pathogen[ P03410] interacts with 5 human partners:{Q8WVC0;Q6PD62;Q92541;Q8N7H5;Q6P1J9}

31054 Pathogen[ P14075] interacts with 5 human partners:{Q8WVC0;Q8N7H5;Q6P1J9;Q92541;Q6PD62}

31055 Pathogen[ P0C206] interacts with 5 human partners:{Q6PD62;Q92541;Q8N7H5;Q8WVC0;Q6P1J9}

31056 Pathogen[ P03363] interacts with 5 human partners:{Q8WVC0;Q6P1J9;Q92541;Q8N7H5;Q6PD62}

31057 [Cluster 2824]GO:0007584+P biological\_process [name] response to nutrient [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a nutrient stimulus." [GOC]

31058 Pathogen[ Q2Q067] interacts with 8 human partners:{P09917;O14929;P13073;P35573;P21953;O43768;P27986;P49715}

31059 Pathogen[ P0C214] interacts with 12 human partners:{P50440;O43768;P09917;P12694;O14929;P35573;P14618;P21953;P13073;P01008;P27986;P30566}

31060 Pathogen[ P03346] interacts with 10 human partners:{P07992;Q9NRJ4;P35573;P49715;O43768;P09917;P13073;P51587;O14929;P27986}

31061 Pathogen[ Q85601] interacts with 10 human partners:{P09917;P21953;P27986;O43768;P35573;O14929;P14618;P49715;P01008;P51587}

31062 Pathogen[ P14079] interacts with 11 human partners:{P21953;P13073;O43768;P51587;O14929;P49715;P35573;P09917;P61803;P50440;P07992}

31063 Pathogen[ P03383] interacts with 6 human partners:{P13073;P27986;P35573;P01008;O14929;O43768}

31064 Pathogen[ P03410] interacts with 13 human partners:{P27986;O14929;P07992;P12694;P35573;P21953;P13073;P51587;P30566;O43768;P09917;P50440;P61803}

31065 Pathogen[ P14075] interacts with 6 human partners:{P13073;O14929;O43768;P27986;P35573;P50440}

31066 Pathogen[ P0C206] interacts with 14 human partners:{P09917;P01008;P51587;P21953;P49715;P27986;P07992;O14929;P50440;P13073;O43768;Q9NRJ4;P14618;P35573}

31067 Pathogen[ P03363] interacts with 5 human partners:{O43768;O14929;Q9NRJ4;P35573;P27986}

31068 [Cluster 2825]GO:0016049+P biological\_process [name] cell growth [def] "The process in which a cell irreversibly increases in size over time by accretion and biosynthetic production of matter similar to that already present." [GOC]

31069 Pathogen[ Q2Q067] interacts with 3 human partners:{O60356;P51959;Q9Y2X3}

31070 Pathogen[ POC214] interacts with 5 human partners:{P68133;P51959;Q9ULP0;O60356;Q9Y2X3}

31071 Pathogen[ P03346] interacts with 7 human partners:{Q96RT1;Q9ULP0;O75159;Q9Y2X3;O60356;P51959;P58546}

31072 Pathogen[ Q85601] interacts with 5 human partners:{P68133;Q96RT1;P51959;O60356;Q9Y2X3}

31073 Pathogen[ P14079] interacts with 8 human partners:{P51959;Q9Y2X3;Q9Y2Q5;Q9ULP0;Q96RT1;Q6IAA8;O60356;P68133}

31074 Pathogen[ P03383] interacts with 3 human partners:{P51959;Q9Y2X3;O60356}

31075 Pathogen[ P03410] interacts with 8 human partners:{Q9Y2Q5;Q96RT1;Q9Y2X3;P51959;Q9ULP0;O60356;P68133;Q6IAA8}

31076 Pathogen[ P14075] interacts with 3 human partners:{P51959;O60356;Q9Y2X3}

31077 Pathogen[ POC206] interacts with 6 human partners:{Q96RT1;Q9ULP0;O60356;P68133;Q9Y2X3;P51959}

31078 Pathogen[ P03363] interacts with 7 human partners:{O75159;Q96RT1;Q9Y2X3;O60356;Q9ULP0;P68133;P51959}

31079 [Cluster 2826]GO:2000020+P biological\_process [name] positive regulation of male gonad development [def] "Any process that activates or increases the frequency, rate or extent of male gonad development." [GOC

31080 Pathogen[ Q2Q067] interacts with 2 human partners:{Q05066;Q8WW38}

31081 Pathogen[ POC214] interacts with 1 human partners:{Q8WW38}

31082 Pathogen[ P03346] interacts with 3 human partners:{Q05066;Q8WW38;Q13285}

31083 Pathogen[ Q85601] interacts with 1 human partners:{Q8WW38}

31084 Pathogen[ P14079] interacts with 1 human partners:{Q8WW38}

31085 Pathogen[ P03383] interacts with 1 human partners:{Q8WW38}

31086 Pathogen[ P03410] interacts with 1 human partners:{Q8WW38}

31087 Pathogen[ P14075] interacts with 1 human partners:{Q8WW38}

31088 Pathogen[ POC206] interacts with 2 human partners:{Q05066;Q8WW38}

31089 Pathogen[ P03363] interacts with 2 human partners:{Q05066;Q8WW38}

31090 [Cluster 2827]GO:0007389+P biological\_process [name] pattern specification process [def] "Any developmental process that results in the creation of defined areas or spaces within an organism to which cells respond and eventually are instructed to differentiate." [GOC

31091 Pathogen[ Q2Q067] interacts with 10 human partners:{O43364;Q99502;O60481;Q6ZNA4;Q08050;O43524;P20719;Q15796;Q8TE85;P14653}

31092 Pathogen[ POC214] interacts with 6 human partners:{Q8TE85;P14653;Q15796;Q6ZNA4;O60481;Q99502}

31093 Pathogen[ P03346] interacts with 27 human partners:{P85037;P47902;P15863;P35453;P58012;Q99626;Q15796;Q08050;A6NJTO;Q99502;P14653;Q8TE85;O00409;P20719;O43364;O60481;O95076;P46109;Q15475;Q12778;Q01167;Q6ZNA4;P98177;Q99593;O43524;P35452;Q9UJU5}

31094 Pathogen[ Q85601] interacts with 8 human partners:{Q8TE85;O60481;P14653;O43364;Q99502;Q6ZNA4;Q08050;Q15796}

31095 Pathogen[ P14079] interacts with 7 human partners:{O43364;Q99502;O60481;Q8TE85;P46109;Q6ZNA4;Q4AC94}

31096 Pathogen[ P03383] interacts with 4 human partners:{Q6ZNA4;Q8TE85;Q15796;O60481}

31097 Pathogen[ P03410] interacts with 8 human partners:{Q6ZNA4;O60481;Q99502;Q4AC94;Q8TE85;O43364;Q15796;P46109}

31098 Pathogen[ P14075] interacts with 6 human partners:{O60481;Q8TE85;Q08050;Q15796;Q6ZNA4;Q99502}

31099 Pathogen[ POC206] interacts with 9 human partners:{Q8TE85;O60481;Q6ZNA4;Q15796;P14653;Q08050;Q99502;O43364;P20719}

31100 Pathogen[ P03363] interacts with 20 human partners:{P35453;P47902;O60481;Q99626;P20719;P46109;P19883;O00409;Q6ZNA4;P14653;O43524;Q8TE85;Q08050;A6NJTO;Q15796;Q01167;O95076;P35452;O43364;Q9UJU5}

31101 [Cluster 2828]GO:0014067+P biological\_process [name] negative regulation of phosphatidylinositol 3-kinase cascade [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of signal transduction mediated by the phosphatidylinositol 3-kinase cascade." [GOC

31102 Pathogen[ Q2Q067] interacts with 2 human partners:{Q15599;O75376}

31103 Pathogen[ POC214] interacts with 3 human partners:{Q15599;O75376;P07093}

31104 Pathogen[ P03346] interacts with 2 human partners:{Q15599;O75376}

31105 Pathogen[ Q85601] interacts with 3 human partners:{O75376;P07093;Q15599}

31106 Pathogen[ P14079] interacts with 2 human partners:{Q15599;O75376}

31107 Pathogen[ P03383] interacts with 1 human partners:{O75376}

31108 Pathogen[ P03410] interacts with 2 human partners:{O75376;Q15599}

31109 Pathogen[ P14075] interacts with 1 human partners:{O75376}

31110 Pathogen[ POC206] interacts with 2 human partners:{Q15599;O75376}

31111 Pathogen[ P03363] interacts with 2 human partners:{O75376;Q15599}

31112 [Cluster 2829]GO:0051701+P biological\_process [name] interaction with host [def] "An interaction between two organisms living together in more or less intimate association. The term host is used for the larger (macro) of the two members of a symbiosis\_ the various forms of symbiosis include parasitism, commensalism and mutualism." [GOC

31113 Pathogen[ Q2Q067] interacts with 2 human partners:{P36543;P29474}

31114 Pathogen[ P0C214] interacts with 4 human partners:{P29474;Q16864;Q9UI12;P36543}  
31115 Pathogen[ P03346] interacts with 6 human partners:{P21283;P29474;Q9Y5K8;P36543;Q93050;Q16864}  
31116 Pathogen[ Q85601] interacts with 3 human partners:{Q93050;P29474;P36543}  
31117 Pathogen[ P14079] interacts with 10 human partners:{P36543;Q9Y5K8;P61421;P13498;Q96LB4;Q8N8Y2;Q93050;Q9UI12;O95670;Q16864}  
31118 Pathogen[ P03383] interacts with 2 human partners:{P29474;P36543}  
31119 Pathogen[ P03410] interacts with 11 human partners:{Q8N8Y2;P61421;Q93050;P29474;Q9UI12;Q96LB4;O95670;Q16864;Q9Y5K8;O75348;P36543}  
31120 Pathogen[ P14075] interacts with 2 human partners:{P29474;P36543}  
31121 Pathogen[ P0C206] interacts with 6 human partners:{P36543;Q9UI12;Q9Y5K8;Q16864;P29474;Q93050}  
31122 Pathogen[ P03363] interacts with 3 human partners:{P29474;P36543;Q9Y5K8}  
31123 [Cluster 2830]GO:0045581+P biological\_process [name] negative regulation of T cell differentiation [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of T cell differentiation." [GOC  
31124 Pathogen[ Q2Q067] interacts with 1 human partners:{Q86Y01}  
31125 Pathogen[ P0C214] interacts with 1 human partners:{Q86Y01}  
31126 Pathogen[ P03346] interacts with 1 human partners:{Q86Y01}  
31127 Pathogen[ Q85601] interacts with 1 human partners:{Q86Y01}  
31128 Pathogen[ P14079] interacts with 2 human partners:{Q86Y01;Q8IU54}  
31129 Pathogen[ P03383] interacts with 1 human partners:{Q86Y01}  
31130 Pathogen[ P03410] interacts with 1 human partners:{Q86Y01}  
31131 Pathogen[ P14075] interacts with 1 human partners:{Q86Y01}  
31132 Pathogen[ P0C206] interacts with 1 human partners:{Q86Y01}  
31133 Pathogen[ P03363] interacts with 1 human partners:{Q86Y01}  
31134 [Cluster 2831]GO:0001893+P biological\_process [name] maternal placenta development [def] "Maternally driven process whose specific outcome is the progression of the placenta over time, from its formation to the mature structure. The placenta is an organ of metabolic interchange between fetus and mother, partly of embryonic origin and partly of maternal origin." [GOC  
31135 Pathogen[ Q2Q067] interacts with 1 human partners:{P31749}  
31136 Pathogen[ P0C214] interacts with 1 human partners:{P31749}  
31137 Pathogen[ P03346] interacts with 4 human partners:{Q9P2F5;O75626;P31749;Q15363}  
31138 Pathogen[ Q85601] interacts with 2 human partners:{P31749;O75626}  
31139 Pathogen[ P14079] interacts with 3 human partners:{O75626;Q15363;Q9P2F5}  
31140 Pathogen[ P03383] interacts with 2 human partners:{P31749;Q9P2F5}  
31141 Pathogen[ P03410] interacts with 4 human partners:{Q9P2F5;P31749;Q15363;O75626}  
31142 Pathogen[ P14075] interacts with 2 human partners:{P31749;Q9P2F5}  
31143 Pathogen[ P0C206] interacts with 4 human partners:{P31749;O75626;Q9P2F5;Q15363}  
31144 Pathogen[ P03363] interacts with 2 human partners:{P31749;O75626}  
31145 [Cluster 2832]GO:0051480+P biological\_process [name] cytosolic calcium ion homeostasis [def] "Any process involved in the maintenance of an internal steady state of calcium ions within the cytosol of a cell or between the cytosol and its surroundings." [GOC  
31146 Pathogen[ Q2Q067] interacts with 1 human partners:{Q93034}  
31147 Pathogen[ P0C214] interacts with 1 human partners:{Q93034}  
31148 Pathogen[ P03346] interacts with 1 human partners:{Q93034}  
31149 Pathogen[ Q85601] interacts with 1 human partners:{Q93034}  
31150 Pathogen[ P14079] interacts with 1 human partners:{Q93034}  
31151 Pathogen[ P03383] interacts with 1 human partners:{Q93034}  
31152 Pathogen[ P03410] interacts with 1 human partners:{Q93034}  
31153 Pathogen[ P14075] interacts with 1 human partners:{Q93034}  
31154 Pathogen[ P0C206] interacts with 1 human partners:{Q93034}  
31155 Pathogen[ P03363] interacts with 1 human partners:{Q93034}  
31156 [Cluster 2833]GO:0003334+P biological\_process [name] keratinocyte development [def] "The process whose specific outcome is the progression of a keratinocyte over time, from its formation to the mature structure." [GOC  
31157 Pathogen[ Q2Q067] interacts with 2 human partners:{Q92754;P60953}  
31158 Pathogen[ P0C214] interacts with 2 human partners:{P60953;Q92754}  
31159 Pathogen[ P03346] interacts with 2 human partners:{P60953;Q92754}  
31160 Pathogen[ Q85601] interacts with 2 human partners:{Q92754;P60953}  
31161 Pathogen[ P14079] interacts with 1 human partners:{Q92754}  
31162 Pathogen[ P03383] interacts with 2 human partners:{P60953;Q92754}  
31163 Pathogen[ P03410] interacts with 2 human partners:{P60953;Q92754}  
31164 Pathogen[ P14075] interacts with 2 human partners:{P60953;Q92754}  
31165 Pathogen[ P0C206] interacts with 2 human partners:{Q92754;P60953}  
31166 Pathogen[ P03363] interacts with 2 human partners:{P60953;Q92754}  
31167 [Cluster 2834]GO:0006221+P biological\_process [name] pyrimidine nucleotide biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of a pyrimidine nucleotide, a compound consisting of nucleoside (a pyrimidine base linked to a deoxyribose or ribose sugar) esterified with a phosphate group at either the 3' or 5'-hydroxyl group of the sugar." [GOC  
31168 Pathogen[ Q2Q067] interacts with 1 human partners:{P11172}  
31169 Pathogen[ P0C214] interacts with 4 human partners:{P11172;Q9NRF8;P17812;Q5EBM0}  
31170 Pathogen[ P03346] interacts with 1 human partners:{P11172}

31171 Pathogen[ Q85601] interacts with 1 human partners:{P11172}  
31172 Pathogen[ P14079] interacts with 4 human partners:{Q5EBM0;P17812;P11172;Q9NRF8}  
31173 Pathogen[ P03383] interacts with 2 human partners:{P11172;Q5EBM0}  
31174 Pathogen[ P03410] interacts with 4 human partners:{Q9NRF8;P17812;P11172;Q5EBM0}  
31175 Pathogen[ P14075] interacts with 2 human partners:{P11172;Q5EBM0}  
31176 Pathogen[ P0C206] interacts with 2 human partners:{Q5EBM0;P11172}  
31177 Pathogen[ P03363] interacts with 1 human partners:{P11172}  
31178 [Cluster 2835]GO:0032392+P biological\_process [name] DNA geometric change [def] "The process in which a transformation is induced in the geometry of a DNA double helix, resulting in a change in twist, writhe, or both, but with no change in linking number. Includes the unwinding of double-stranded DNA by helicases." [GOC  
31179 Pathogen[ Q2Q067] interacts with 1 human partners:{Q99551}  
31180 Pathogen[ P0C214] interacts with 1 human partners:{Q99551}  
31181 Pathogen[ P03346] interacts with 1 human partners:{Q99551}  
31182 Pathogen[ Q85601] interacts with 1 human partners:{Q99551}  
31183 Pathogen[ P14079] interacts with 1 human partners:{Q99551}  
31184 Pathogen[ P03383] interacts with 1 human partners:{Q99551}  
31185 Pathogen[ P03410] interacts with 1 human partners:{Q99551}  
31186 Pathogen[ P14075] interacts with 1 human partners:{Q99551}  
31187 Pathogen[ P0C206] interacts with 1 human partners:{Q99551}  
31188 Pathogen[ P03363] interacts with 1 human partners:{Q99551}  
31189 [Cluster 2836]GO:0046778+P biological\_process [name] modification by virus of host mRNA processing [def] "Any viral process that interferes with the processing of mRNA in the host cell." [ISBN  
31190 Pathogen[ Q2Q067] interacts with 2 human partners:{O95639;Q86U42}  
31191 Pathogen[ P0C214] interacts with 2 human partners:{O95639;Q86U42}  
31192 Pathogen[ P03346] interacts with 2 human partners:{O95639;Q86U42}  
31193 Pathogen[ Q85601] interacts with 2 human partners:{O95639;Q86U42}  
31194 Pathogen[ P14079] interacts with 2 human partners:{O95639;Q86U42}  
31195 Pathogen[ P03383] interacts with 1 human partners:{Q86U42}  
31196 Pathogen[ P03410] interacts with 2 human partners:{O95639;Q86U42}  
31197 Pathogen[ P14075] interacts with 1 human partners:{Q86U42}  
31198 Pathogen[ P0C206] interacts with 2 human partners:{Q86U42;O95639}  
31199 Pathogen[ P03363] interacts with 1 human partners:{Q86U42}  
31200 [Cluster 2837]GO:0048024+P biological\_process [name] regulation of nuclear mRNA splicing, via spliceosome [def] "Any process that modulates the frequency, rate or extent of mRNA splicing via a spliceosomal mechanism." [GOC  
31201 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9HCG8}  
31202 Pathogen[ P0C214] interacts with 2 human partners:{P31483;Q9HCG8}  
31203 Pathogen[ P03346] interacts with 2 human partners:{P31483;Q9HCG8}  
31204 Pathogen[ Q85601] interacts with 1 human partners:{Q9HCG8}  
31205 Pathogen[ P14079] interacts with 2 human partners:{Q9HCG8;P31483}  
31206 Pathogen[ P03383] interacts with 1 human partners:{Q9HCG8}  
31207 Pathogen[ P03410] interacts with 2 human partners:{P31483;Q9HCG8}  
31208 Pathogen[ P14075] interacts with 1 human partners:{Q9HCG8}  
31209 Pathogen[ P0C206] interacts with 2 human partners:{P31483;Q9HCG8}  
31210 Pathogen[ P03363] interacts with 2 human partners:{Q9HCG8;P31483}  
31211 [Cluster 2838]GO:0006816+P biological\_process [name] calcium ion transport [def] "The directed movement of calcium (Ca) ions into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore." [GOC  
31212 Pathogen[ Q2Q067] interacts with 6 human partners:{Q08209;Q9BSW2;P08133;P26678;O95644;P10242}  
31213 Pathogen[ P0C214] interacts with 6 human partners:{P08133;Q08209;P10242;Q9BSW2;O95644;P26678}  
31214 Pathogen[ P03346] interacts with 6 human partners:{P26678;O95644;P08133;P10242;Q9BSW2;Q08209}  
31215 Pathogen[ Q85601] interacts with 5 human partners:{P10242;O95644;Q08209;P08133;Q9BSW2}  
31216 Pathogen[ P14079] interacts with 11 human partners:{Q9BSW2;O95644;Q8NE86;O60895;O00631;P05814;Q96BY9;P26678;P10242;Q08209;P13693}  
31217 Pathogen[ P03383] interacts with 5 human partners:{O95644;Q9BSW2;P26678;P10242;P08133}  
31218 Pathogen[ P03410] interacts with 13 human partners:{O60896;Q08209;O60895;P10242;O95644;Q8NE86;P08133;Q96BY9;P26678;P13693;O00631;Q8IU99;P05814}  
31219 Pathogen[ P14075] interacts with 5 human partners:{Q9BSW2;P08133;P10242;P26678;O95644}  
31220 Pathogen[ P0C206] interacts with 7 human partners:{Q8NE86;P10242;P08133;Q08209;P26678;O95644;Q9BSW2}  
31221 Pathogen[ P03363] interacts with 4 human partners:{P08133;Q9BSW2;P10242;O95644}  
31222 [Cluster 2839]GO:0071173+P biological\_process [name] spindle assembly checkpoint [def] "A cell cycle checkpoint that delays the metaphase/anaphase transition until the spindle is correctly assembled and chromosomes are attached to the spindle." [GOC  
31223 Pathogen[ Q2Q067] interacts with 2 human partners:{O43684;Q8NG31}  
31224 Pathogen[ P0C214] interacts with 2 human partners:{O43684;Q8NG31}

31225 Pathogen[ P03346] interacts with 2 human partners:{O43684;Q8NG31}  
31226 Pathogen[ Q85601] interacts with 2 human partners:{Q8NG31;O43684}  
31227 Pathogen[ P14079] interacts with 2 human partners:{Q8NG31;O43684}  
31228 Pathogen[ P03383] interacts with 2 human partners:{O43684;Q8NG31}  
31229 Pathogen[ P03410] interacts with 2 human partners:{O43684;Q8NG31}  
31230 Pathogen[ P14075] interacts with 2 human partners:{O43684;Q8NG31}  
31231 Pathogen[ P0C206] interacts with 2 human partners:{O43684;Q8NG31}  
31232 Pathogen[ P03363] interacts with 2 human partners:{O43684;Q8NG31}  
31233 [Cluster 2840]GO:0051001+P biological\_process [name] negative regulation of nitric-oxide synthase activity [def] "Any process that stops or reduces the activity of the enzyme nitric-oxide synthase." [GOC  
31234 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9Y314}  
31235 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y314}  
31236 Pathogen[ P03346] interacts with 1 human partners:{Q9Y314}  
31237 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y314}  
31238 Pathogen[ P14079] interacts with 2 human partners:{Q9Y314;P06280}  
31239 Pathogen[ P03383] interacts with 1 human partners:{Q9Y314}  
31240 Pathogen[ P03410] interacts with 1 human partners:{Q9Y314}  
31241 Pathogen[ P14075] interacts with 1 human partners:{Q9Y314}  
31242 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y314}  
31243 Pathogen[ P03363] interacts with 1 human partners:{Q9Y314}  
31244 [Cluster 2841]GO:0046500+P biological\_process [name] S-adenosylmethionine metabolic process [def] "The chemical reactions and pathways involving S-adenosylmethionine, S-(5'-adenosyl)-L-methionine, an important intermediate in one-carbon metabolism." [GOC  
31245 Pathogen[ Q2Q067] interacts with 2 human partners:{P22061;Q14749}  
31246 Pathogen[ P0C214] interacts with 2 human partners:{P22061;Q14749}  
31247 Pathogen[ P03346] interacts with 2 human partners:{P22061;Q14749}  
31248 Pathogen[ Q85601] interacts with 2 human partners:{P22061;Q14749}  
31249 Pathogen[ P14079] interacts with 3 human partners:{Q14749;Q14353;Q16625}  
31250 Pathogen[ P03383] interacts with 2 human partners:{P22061;Q14749}  
31251 Pathogen[ P03410] interacts with 4 human partners:{Q14353;Q14749;Q16625;P22061}  
31252 Pathogen[ P14075] interacts with 2 human partners:{P22061;Q14749}  
31253 Pathogen[ P0C206] interacts with 2 human partners:{P22061;Q14749}  
31254 Pathogen[ P03363] interacts with 1 human partners:{Q14749}  
31255 [Cluster 2842]GO:0045785+P biological\_process [name] positive regulation of cell adhesion [def] "Any process that activates or increases the frequency, rate or extent of cell adhesion." [GOC  
31256 Pathogen[ Q2Q067] interacts with 3 human partners:{P21980;Q86U70;O95429}  
31257 Pathogen[ P0C214] interacts with 4 human partners:{Q86U70;O95429;P21980;P18054}  
31258 Pathogen[ P03346] interacts with 4 human partners:{P21980;Q86U70;P18054;O95429}  
31259 Pathogen[ Q85601] interacts with 3 human partners:{Q86U70;P21980;O95429}  
31260 Pathogen[ P14079] interacts with 5 human partners:{O95429;Q86U70;P21980;P29459;P0DJ18}  
31261 Pathogen[ P03383] interacts with 3 human partners:{Q86U70;P21980;O95429}  
31262 Pathogen[ P03410] interacts with 5 human partners:{P0DJ18;O95429;Q86U70;P21980;P29459}  
31263 Pathogen[ P14075] interacts with 3 human partners:{Q86U70;P21980;O95429}  
31264 Pathogen[ P0C206] interacts with 3 human partners:{P21980;O95429;Q86U70}  
31265 Pathogen[ P03363] interacts with 2 human partners:{Q86U70;O95429}  
31266 [Cluster 2843]GO:0031290+P biological\_process [name] retinal ganglion cell axon guidance [def] "The process in which the migration of an axon growth cone of a retinal ganglion cell (RGC) is directed to its target in the brain in response to a combination of attractive and repulsive cues." [GOC  
31267 Pathogen[ Q2Q067] interacts with 1 human partners:{Q12837}  
31268 Pathogen[ P0C214] interacts with 1 human partners:{Q12837}  
31269 Pathogen[ P03346] interacts with 2 human partners:{Q12837;Q15319}  
31270 Pathogen[ Q85601] interacts with 1 human partners:{Q12837}  
31271 Pathogen[ P14079] interacts with 1 human partners:{Q12837}  
31272 Pathogen[ P03383] interacts with 1 human partners:{Q12837}  
31273 Pathogen[ P03410] interacts with 1 human partners:{Q12837}  
31274 Pathogen[ P14075] interacts with 1 human partners:{Q12837}  
31275 Pathogen[ P0C206] interacts with 1 human partners:{Q12837}  
31276 Pathogen[ P03363] interacts with 2 human partners:{Q12837;Q15319}  
31277 [Cluster 2844]GO:0000059+P biological\_process [name] protein import into nucleus, docking [def] "A protein complex assembly process that contributes to protein import into the nucleus, and that results in the association of a cargo protein, a carrier protein such as an importin alpha/beta heterodimer, and a nucleoporin located at the periphery of the nuclear pore complex." [GOC  
31278 Pathogen[ Q2Q067] interacts with 2 human partners:{P52948;Q92621}  
31279 Pathogen[ P0C214] interacts with 2 human partners:{P52948;Q92621}  
31280 Pathogen[ P03346] interacts with 2 human partners:{Q92621;P52948}  
31281 Pathogen[ Q85601] interacts with 2 human partners:{Q92621;P52948}  
31282 Pathogen[ P14079] interacts with 2 human partners:{Q92621;P52948}  
31283 Pathogen[ P03383] interacts with 2 human partners:{Q92621;P52948}  
31284 Pathogen[ P03410] interacts with 2 human partners:{P52948;Q92621}  
31285 Pathogen[ P14075] interacts with 2 human partners:{Q92621;P52948}

31286 Pathogen[ P0C206] interacts with 1 human partners:{Q92621}

31287 Pathogen[ P03363] interacts with 2 human partners:{P52948;Q92621}

31288 [Cluster 2845]GO:0050798+P biological\_process [name] activated T cell proliferation [def] "The expansion of a T cell population following activation by an antigenic stimulus." [GOC

31289 Pathogen[ Q2Q067] interacts with 1 human partners:{Q01826}

31290 Pathogen[ P0C214] interacts with 1 human partners:{Q01826}

31291 Pathogen[ P03346] interacts with 1 human partners:{Q01826}

31292 Pathogen[ Q85601] interacts with 1 human partners:{Q01826}

31293 Pathogen[ P14079] interacts with 1 human partners:{Q01826}

31294 Pathogen[ P03383] interacts with 1 human partners:{Q01826}

31295 Pathogen[ P03410] interacts with 1 human partners:{Q01826}

31296 Pathogen[ P14075] interacts with 1 human partners:{Q01826}

31297 Pathogen[ P0C206] interacts with 1 human partners:{Q01826}

31298 Pathogen[ P03363] interacts with 1 human partners:{Q01826}

31299 [Cluster 2846]GO:0006515+P biological\_process [name] misfolded or incompletely synthesized protein catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of misfolded or attenuated proteins." [GOC

31300 Pathogen[ Q2Q067] interacts with 2 human partners:{P54252;Q9UNE7}

31301 Pathogen[ P0C214] interacts with 3 human partners:{Q96B02;Q9UNE7;P54252}

31302 Pathogen[ P03346] interacts with 2 human partners:{Q9UNE7;P54252}

31303 Pathogen[ Q85601] interacts with 3 human partners:{Q96B02;P54252;Q9UNE7}

31304 Pathogen[ P14079] interacts with 1 human partners:{P54252}

31305 Pathogen[ P03383] interacts with 1 human partners:{P54252}

31306 Pathogen[ P03410] interacts with 2 human partners:{P54252;Q9UNE7}

31307 Pathogen[ P14075] interacts with 1 human partners:{P54252}

31308 Pathogen[ P0C206] interacts with 3 human partners:{P54252;Q9UNE7;Q96B02}

31309 Pathogen[ P03363] interacts with 2 human partners:{P54252;Q9UNE7}

31310 [Cluster 2847]GO:0071267+P biological\_process [name] L-methionine salvage [def] "Any process that generates L-methionine from derivatives of it, without de novo synthesis." [CHEBI

31311 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96GX9}

31312 Pathogen[ P0C214] interacts with 1 human partners:{Q96GX9}

31313 Pathogen[ P03346] interacts with 1 human partners:{Q96GX9}

31314 Pathogen[ Q85601] interacts with 1 human partners:{Q96GX9}

31315 Pathogen[ P14079] interacts with 1 human partners:{Q96GX9}

31316 Pathogen[ P03383] interacts with 1 human partners:{Q96GX9}

31317 Pathogen[ P03410] interacts with 1 human partners:{Q96GX9}

31318 Pathogen[ P14075] interacts with 1 human partners:{Q96GX9}

31319 Pathogen[ P0C206] interacts with 1 human partners:{Q96GX9}

31320 Pathogen[ P03363] interacts with 1 human partners:{Q96GX9}

31321 [Cluster 2848]GO:0035729+P biological\_process [name] cellular response to hepatocyte growth factor stimulus [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a hepatocyte growth factor stimulus." [GOC

31322 Pathogen[ Q2Q067] interacts with 2 human partners:{O14786;P56945}

31323 Pathogen[ P0C214] interacts with 2 human partners:{O14786;P56945}

31324 Pathogen[ P03346] interacts with 2 human partners:{P56945;O14786}

31325 Pathogen[ Q85601] interacts with 2 human partners:{O14786;P56945}

31326 Pathogen[ P14079] interacts with 1 human partners:{P09327}

31327 Pathogen[ P03383] interacts with 1 human partners:{P56945}

31328 Pathogen[ P03410] interacts with 2 human partners:{O14786;P56945}

31329 Pathogen[ P14075] interacts with 1 human partners:{P56945}

31330 Pathogen[ P0C206] interacts with 2 human partners:{O14786;P56945}

31331 Pathogen[ P03363] interacts with 2 human partners:{O14786;P56945}

31332 [Cluster 2849]GO:0050710+P biological\_process [name] negative regulation of cytokine secretion [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the regulated release of cytokines from a cell or group of cells." [GOC

31333 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9H4X1;O60543}

31334 Pathogen[ P0C214] interacts with 3 human partners:{Q9H4X1;O60543;P10124}

31335 Pathogen[ P03346] interacts with 2 human partners:{Q9H4X1;O60543}

31336 Pathogen[ Q85601] interacts with 2 human partners:{Q9H4X1;O60543}

31337 Pathogen[ P14079] interacts with 2 human partners:{O60543;P10124}

31338 Pathogen[ P03383] interacts with 3 human partners:{Q9H4X1;O60543;P10124}

31339 Pathogen[ P03410] interacts with 3 human partners:{Q9H4X1;P10124;O60543}

31340 Pathogen[ P14075] interacts with 3 human partners:{Q9H4X1;O60543;P10124}

31341 Pathogen[ P0C206] interacts with 3 human partners:{Q9H4X1;O60543;P10124}

31342 Pathogen[ P03363] interacts with 2 human partners:{O60543;Q9H4X1}

31343 [Cluster 2850]GO:0042832+P biological\_process [name] defense response to protozoan [def] "Reactions triggered in response to the presence of a protozoan that act to protect the cell or organism." [GOC

31344 Pathogen[ Q2Q067] interacts with 2 human partners:{P20749;Q02556}

31345 Pathogen[ P0C214] interacts with 3 human partners:{Q99698;Q02556;P20749}

31346 Pathogen[ P03346] interacts with 3 human partners:{Q99698;Q02556;P20749}

31347 Pathogen[ Q85601] interacts with 3 human partners:{Q02556;P20749;Q99698}

31348 Pathogen[ P14079] interacts with 4 human partners:{P20749;P29459;Q02556;Q99698}

31349 Pathogen[ P03383] interacts with 2 human partners:{P20749;Q02556}  
31350 Pathogen[ P03410] interacts with 4 human partners:{P20749;Q02556;Q99698;P29459}  
31351 Pathogen[ P14075] interacts with 2 human partners:{Q02556;P20749}  
31352 Pathogen[ P0C206] interacts with 3 human partners:{Q99698;Q02556;P20749}  
31353 Pathogen[ P03363] interacts with 3 human partners:{Q02556;P20749;Q99698}  
31354 [Cluster 2851]GO:0030330+P biological\_process [name] DNA damage response, signal transduction by p53 class mediator [def] "A cascade of processes induced by the cell cycle regulator phosphoprotein p53, or an equivalent protein, in response to the detection of DNA damage." [GOC  
31355 Pathogen[ Q2Q067] interacts with 6 human partners:{Q6ZW49;P20749;O43524;O60934;O43715;Q92597}  
31356 Pathogen[ P0C214] interacts with 5 human partners:{Q9UM54;O43715;Q6ZW49;Q92597;P20749}  
31357 Pathogen[ P03346] interacts with 7 human partners:{Q14694;Q92597;P20749;O60934;O43715;O43524;Q6ZW49}  
31358 Pathogen[ Q85601] interacts with 6 human partners:{O43715;Q6ZW49;Q92597;Q9UM54;P20749;O60934}  
31359 Pathogen[ P14079] interacts with 6 human partners:{O43715;Q9UM54;O60934;Q92597;Q6ZW49;P20749}  
31360 Pathogen[ P03383] interacts with 4 human partners:{P20749;Q6ZW49;Q92597;O43715}  
31361 Pathogen[ P03410] interacts with 6 human partners:{P20749;Q9UM54;O43715;Q92597;Q6ZW49;O60934}  
31362 Pathogen[ P14075] interacts with 4 human partners:{Q6ZW49;O43715;Q92597;P20749}  
31363 Pathogen[ P0C206] interacts with 6 human partners:{Q92597;Q9UM54;Q6ZW49;O60934;O43715;P20749}  
31364 Pathogen[ P03363] interacts with 5 human partners:{Q92597;O43524;P20749;Q6ZW49;O43715}  
31365 [Cluster 2852]GO:000288+P biological\_process [name] nuclear-transcribed mRNA catabolic process, deadenylation-dependent decay [def] "A major pathway of degradation of nuclear-transcribed mRNAs that proceeds through a series of ordered steps that includes poly(A) tail shortening and that can regulate mRNA stability." [GOC  
31366 Pathogen[ Q2Q067] interacts with 49 human partners:{P23588;Q8IU60;P62312;Q9Y333;Q9NQT4;Q96LI5;Q8IZH2;Q8IZD4;Q9Y2L1;Q9NPI6;A5YK K6;Q9H074;Q06265;Q96F86;Q9UK45;Q96C86;Q13868;P38919;O75175;Q9Y3B2;Q9NPD3;Q86TB9;Q142 40;Q504Q3;P26196;Q5RKV6;Q9UIV1;Q9UKZ1;Q15024;O95628;Q9UFF9;O15116;Q9C0C2;Q9NZN8;P479 74;Q92600;Q04637;P26651;P06730;O95453;P11940;P60842;Q9ULM6;Q9Y4Z0;P62310;Q07352;Q96B 26;Q9Y4Y9;Q6P2E9}  
31367 Pathogen[ P0C214] interacts with 49 human partners:{P62312;Q9NZN8;O15116;Q96C86;P26196;Q15024;Q6P2E9;O95453;P60842;Q9NPI6;O956 28;Q9Y2L1;P23588;Q9C0C2;Q504Q3;Q9Y3B2;P11940;Q5RKV6;Q9Y4Z0;Q9UK45;Q9UIV1;Q9Y4Y9;Q8IZ H2;Q07352;Q9Y333;Q9ULM6;Q9NPD3;P62310;A5YKK6;P38919;Q9H074;Q14240;Q86TB9;Q13868;Q8IU 60;P26651;Q04637;Q9UKZ1;Q9UFF9;Q92600;Q96LI5;Q06265;P06730;O75175;Q9NQT4;Q96F86;Q96B 26;P47974;Q8IZD4}  
31368 Pathogen[ P03346] interacts with 51 human partners:{Q5RKV6;Q504Q3;Q9ULM6;P06730;Q9NPI6;Q9UIV1;Q96C86;O75175;Q9H9A5;Q9UKZ1;Q9Y4 Y9;O95628;P38919;P11940;Q96B26;P60842;Q9Y3B2;A5YKK6;Q9Y333;Q8IZH2;Q15024;Q9NZN8;O954 53;Q8IU60;Q86TB9;Q9H074;Q9Y4Z0;Q6P2E9;P47974;Q9Y2L1;Q14240;Q9NQT5;O15116;Q07352;Q9C0 C2;P23588;P26196;Q04637;Q8IZD4;Q06265;Q9UFF9;P26651;Q9NQT4;P62312;Q9NPD3;Q96F86;Q96L I5;P62310;Q9UK45;Q13868;Q92600}  
31369 Pathogen[ Q85601] interacts with 49 human partners:{Q5RKV6;Q6P2E9;Q9NPD3;Q9NPI6;P06730;Q14240;Q9UKZ1;P23588;O15116;Q07352;Q138 68;Q04637;Q9UIV1;P47974;Q9NZN8;Q9UFF9;Q9UK45;Q92600;Q504Q3;Q9Y2L1;Q8IZH2;Q86TB9;P389 19;Q96C86;P26651;P11940;Q96LI5;P62310;Q9Y4Z0;Q9NQT4;Q9Y3B2;A5YKK6;O95628;O95453;P623 12;Q15024;Q8IZD4;Q9ULM6;P60842;Q9H074;Q9C0C2;Q06265;P26196;Q96F86;Q9Y333;O75175;Q96B 26;Q8IU60;Q9Y4Y9}  
31370 Pathogen[ P14079] interacts with 48 human partners:{Q9Y333;O95628;P60842;Q9Y3B2;Q8IZD4;Q92600;P06730;P47974;Q8IU60;Q15024;Q9UK 45;Q9NPI6;Q9UKZ1;Q86TB9;Q96LI5;Q9NQT4;Q13868;Q9NPD3;Q96C86;O15116;Q9H074;P62312;Q6P2 E9;Q14240;A5YKK6;O95453;P23588;Q9C0C2;Q8IZH2;P11940;Q9Y4Z0;P26196;Q5RKV6;Q96F86;O751 75;Q9UFF9;Q9Y2L1;P62310;Q9UIV1;Q9H9A5;Q96B26;Q9ULM6;Q9NZN8;Q9Y4Y9;Q504Q3;Q06265;Q073 52;Q04637}  
31371 Pathogen[ P03383] interacts with 44 human partners:{Q06265;Q9Y2L1;Q8IU60;P62312;P38919;Q9Y4Y9;Q9UFF9;Q9C0C2;P26196;P11940;Q073 52;Q9Y3B2;O95628;P23588;P06730;P62310;Q9NPD3;Q9NQT4;Q9NPI6;A5YKK6;Q9Y333;Q9UIV1;Q86T B9;Q92600;Q96B26;Q9ULM6;Q9H074;Q8IZD4;P26651;Q9Y4Z0;Q9NZN8;Q04637;Q9UK45;Q5RKV6;Q96C 86;Q9UKZ1;Q96F86;O15116;O95453;O75175;Q13868;Q96LI5;Q15024;Q6P2E9}  
31372 Pathogen[ P03410] interacts with 49 human partners:{Q96LI5;Q8IU60;Q9Y2L1;Q9NZN8;Q9Y4Y9;Q9UFF9;O95628;P11940;P62310;P06730;Q9UL M6;Q9NPI6;Q06265;Q9C0C2;Q5RKV6;Q9Y333;Q13868;P26651;Q9UIV1;Q9H9A5;Q9H074;Q8IZH2;Q8IZ D4;Q96B26;Q96F86;O95453;Q6P2E9;Q9UKZ1;Q15024;P47974;P60842;O75175;P38919;Q9NQT4;Q9Y4 Z0;Q86TB9;Q92600;Q9NPD3;O15116;P62312;A5YKK6;Q04637;Q96C86;Q504Q3;Q9UK45;Q07352;P235 88;Q14240;Q9Y3B2}  
31373 Pathogen[ P14075] interacts with 44 human partners:{O95453;Q6P2E9;Q9UK45;Q9ULM6;P23588;Q9UKZ1;Q9NPD3;Q9Y4Z0;P26196;P26651;Q926 00;O75175;Q9H074;P06730;Q9NPI6;Q96LI5;Q8IU60;Q9NZN8;Q9Y2L1;Q13868;P62312;Q9NQT4;P119 40;O95628;Q8IZD4;O15116;Q04637;Q86TB9;Q5RKV6;Q96B26;Q9Y333;Q07352;Q9UFF9;Q96C86;Q150



- 31374 Pathogen[ P0C206] interacts with 50 human partners: {Q9UUFF9;Q9H074;Q504Q3;Q86TB9;O95453;P26651;Q8IZH2;Q96C86;Q9NPD3;Q5RKV6;Q13868;Q9NZN8;Q9UIV1;Q96LI5;P26196;O75175;Q9NPI6;Q96B26;Q9H9A5;Q9Y4Y9;O95628;P06730;Q9Y4Z0;Q9Y333;Q8IZD4;Q9UK45;Q06265;Q6P2E9;Q96F86;Q15024;A5YKK6;Q9Y2L1;Q14240;Q9UKZ1;Q92600;Q9Y3B2;Q9C0C2;P23588;P62312;Q04637;Q07352;Q9NQT4;P38919;P62310;P60842;Q9ULM6;P11940;Q8IU60;P47974;O15116}
- 31375 Pathogen[ P03363] interacts with 49 human partners: {Q96B26;Q504Q3;Q9NQT4;Q9Y4Y9;Q5RKV6;Q9Y4Z0;P38919;O95628;O95453;P62312;Q15024;A5YKK6;Q9Y3B2;Q6P2E9;Q9UKZ1;P11940;Q8IZD4;Q9NZN8;Q9NPD3;P23588;O15116;Q9ULM6;Q07352;Q9Y333;Q96F86;Q14240;Q9C0C2;Q9Y2L1;P26196;Q92600;Q96LI5;Q13868;O75175;P62310;P60842;Q9NQT5;P26651;Q9UIV1;Q86TB9;Q9UK45;P47974;Q9UUFF9;Q96C86;P06730;Q9NPI6;Q9H074;Q8IZH2;Q8IU60;Q04637}
- 31376 [Cluster 2853]GO:0003130+P biological\_process [name] BMP signaling pathway involved in heart induction [def] "A series of molecular signals generated as a consequence of any member of the BMP (bone morphogenetic protein) family binding to a cell surface receptor that contributes to heart induction." [GOC]
- 31377 Pathogen[ Q2Q067] interacts with 1 human partners: {Q01860}
- 31378 Pathogen[ P0C214] interacts with 1 human partners: {Q01860}
- 31379 Pathogen[ P03346] interacts with 1 human partners: {Q01860}
- 31380 Pathogen[ Q85601] interacts with 1 human partners: {Q01860}
- 31381 Pathogen[ P14079] interacts with 1 human partners: {Q01860}
- 31382 Pathogen[ P03383] interacts with 1 human partners: {Q01860}
- 31383 Pathogen[ P03410] interacts with 1 human partners: {Q01860}
- 31384 Pathogen[ P14075] interacts with 1 human partners: {Q01860}
- 31385 Pathogen[ P0C206] interacts with 1 human partners: {Q01860}
- 31386 Pathogen[ P03363] interacts with 1 human partners: {Q01860}
- 31387 [Cluster 2854]GO:0046697+P biological\_process [name] decidualization [def] "The cellular and vascular changes occurring in the endometrium of the pregnant uterus just after the onset of blastocyst implantation. This process involves the proliferation and differentiation of the fibroblast-like endometrial stromal cells into large, polyploid decidual cells that eventually form the maternal component of the placenta." [ISBN]
- 31388 Pathogen[ Q2Q067] interacts with 1 human partners: {P11473}
- 31389 Pathogen[ P0C214] interacts with 1 human partners: {P17275}
- 31390 Pathogen[ P03346] interacts with 2 human partners: {P11473;P17275}
- 31391 Pathogen[ Q85601] interacts with 2 human partners: {P11473;P17275}
- 31392 Pathogen[ P14079] interacts with 2 human partners: {P11473;P17275}
- 31393 Pathogen[ P03383] interacts with 2 human partners: {P11473;P17275}
- 31394 Pathogen[ P03410] interacts with 2 human partners: {P11473;P17275}
- 31395 Pathogen[ P14075] interacts with 2 human partners: {P17275;P11473}
- 31396 Pathogen[ P0C206] interacts with 2 human partners: {P17275;P11473}
- 31397 Pathogen[ P03363] interacts with 2 human partners: {P17275;P11473}
- 31398 [Cluster 2855]GO:0007517+P biological\_process [name] muscle organ development [def] "The process whose specific outcome is the progression of the muscle over time, from its formation to the mature structure. The muscle is an organ consisting of a tissue made up of various elongated cells that are specialized to contract and thus to produce movement and mechanical work." [GOC]
- 31399 Pathogen[ Q2Q067] interacts with 21 human partners: {P49454;P50402;P02545;Q96D98;Q99081;P35712;P13349;Q14814;P50549;P02511;P15172;Q15561;P37802;P11532;P46939;Q9ULH7;Q02080;Q13642;Q8N6I1;P23409;Q02078}
- 31400 Pathogen[ P0C214] interacts with 21 human partners: {P51114;P02511;Q99081;P13349;Q02080;P11055;P15172;Q8N6I1;Q02078;P11532;Q15561;Q13642;Q14814;Q96D98;P50402;P46939;P50549;Q9ULH7;P02545;P49454;P35712}
- 31401 Pathogen[ P03346] interacts with 32 human partners: {P37802;Q99081;P85037;Q02078;P52954;Q14814;P13349;P50549;Q15911;Q8IYA7;P15172;P23409;Q9ULH7;P15173;P46939;P02545;Q15561;Q14863;Q9UI15;P02511;Q96D98;O75604;Q8N6I1;P98177;Q13642;P50402;P35712;Q02080;P11532;P51114;Q5BXX8;P49454}
- 31402 Pathogen[ Q85601] interacts with 23 human partners: {P37802;P49454;Q02078;P02545;P15172;P13349;P50549;Q14814;Q9ULH7;Q13642;P35712;P11532;Q02080;Q8N6I1;P23409;Q96D98;P02511;P46939;P11055;P50402;Q99081;Q15561;P51114}
- 31403 Pathogen[ P14079] interacts with 30 human partners: {P37802;Q15561;Q02078;Q06413;O75072;P11532;P13349;P23409;Q15911;P02511;Q16585;P35712;Q9Y4F9;P57679;P46939;Q92629;Q96D98;Q13642;Q16586;Q9ULH7;P50549;Q13326;Q14814;P49454;Q99081;P50402;P02545;P28360;Q8N6I1;Q02080}
- 31404 Pathogen[ P03383] interacts with 19 human partners: {P02545;P49454;Q15561;P35712;P50549;Q02080;Q8N6I1;P15172;P02511;Q14814;P46939;Q96D98;Q99081;Q9ULH7;P11532;P50402;P37802;Q13642;Q02078}
- 31405 Pathogen[ P03410] interacts with 24 human partners: {P35712;P23409;Q9ULH7;Q8N6I1;Q14814;P11532;Q16585;P50549;P49454;P37802;Q99081;Q15561;P02511;P46939;P02545;P13349;Q13642;P50402;P51114;Q02078;Q92629;Q13326;Q02080;Q96D98}
- 31406 Pathogen[ P14075] interacts with 19 human partners: {P11532;Q15561;P15172;Q02080;P50402;Q13642;P02545;Q96D98;P37802;P35712;P46939;Q8N6I1;P02511;Q02078;P50549;Q99081;P49454;Q14814;Q9ULH7}
- 31407 Pathogen[ P0C206] interacts with 28 human

partners:{P46939;P50402;Q15911;Q02078;Q8N6I1;Q13642;O75604;P23409;P49454;P11055;P504  
 61;P51114;Q02080;Q99081;P50549;P13349;P37802;P02545;Q96D98;P35712;Q14863;P15172;Q148  
 14;P11532;P02511;Q5BKX8;Q15561;Q9ULH7}  
 31408 Pathogen[ P03363] interacts with 28 human  
 partners:{Q15911;P46939;P49454;P02545;Q14863;O75604;P37802;Q02080;P13349;Q14814;P115  
 32;Q9ULH7;P51114;P50549;P50402;P35712;P23409;Q5BKX8;Q13642;Q8IYA7;Q99081;Q96D98;Q8N6  
 I1;P15172;Q15561;Q9H3U1;Q9UI15;Q02078}  
 31409 [Cluster 2856]GO:0070537+P biological\_process [name] histone H2A K63-linked  
 deubiquitination [def] "A protein deubiquitination process in which a K63-linked  
 ubiquitin chain, i.e. a polymer of ubiquitin formed by linkages between lysine residues  
 at position 63 of the ubiquitin monomers, is removed from a lysine residue in histone  
 H2A or the variant H2AX." [GOC  
 31410 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96RL1}  
 31411 Pathogen[ P0C214] interacts with 1 human partners:{Q96RL1}  
 31412 Pathogen[ P03346] interacts with 1 human partners:{Q96RL1}  
 31413 Pathogen[ Q85601] interacts with 2 human partners:{Q9Y5T5;Q96RL1}  
 31414 Pathogen[ P14079] interacts with 1 human partners:{Q96RL1}  
 31415 Pathogen[ P03383] interacts with 1 human partners:{Q96RL1}  
 31416 Pathogen[ P03410] interacts with 1 human partners:{Q96RL1}  
 31417 Pathogen[ P14075] interacts with 1 human partners:{Q96RL1}  
 31418 Pathogen[ P0C206] interacts with 2 human partners:{Q9Y5T5;Q96RL1}  
 31419 Pathogen[ P03363] interacts with 1 human partners:{Q96RL1}  
 31420 [Cluster 2857]GO:0007096+P biological\_process [name] regulation of exit from mitosis  
 [def] "Any process involved in the progression from anaphase/telophase to G1 that is  
 associated with a conversion from high to low mitotic CDK activity." [GOC  
 31421 Pathogen[ Q2Q067] interacts with 6 human  
 partners:{Q8IXJ6;Q15013;Q9NQW6;Q9UJX2;O43264;P50748}  
 31422 Pathogen[ P0C214] interacts with 5 human  
 partners:{O43264;Q15013;P50748;Q9UJX2;Q8IXJ6}  
 31423 Pathogen[ P03346] interacts with 7 human  
 partners:{Q9NQW6;Q15013;O43264;Q8IXJ6;Q86SE8;Q9UJX2;P50748}  
 31424 Pathogen[ Q85601] interacts with 7 human  
 partners:{Q9UJX2;Q9NQW6;Q86SE8;O43264;Q15013;Q8IXJ6;P50748}  
 31425 Pathogen[ P14079] interacts with 5 human  
 partners:{Q9NQW6;Q15013;O43264;Q8IXJ6;P50748}  
 31426 Pathogen[ P03383] interacts with 4 human partners:{Q15013;O43264;Q9UJX2;P50748}  
 31427 Pathogen[ P03410] interacts with 6 human  
 partners:{Q8IXJ6;Q86SE8;Q15013;P50748;Q9NQW6;O43264}  
 31428 Pathogen[ P14075] interacts with 4 human partners:{Q9UJX2;Q15013;P50748;O43264}  
 31429 Pathogen[ P0C206] interacts with 7 human  
 partners:{Q9NQW6;Q9UJX2;Q86SE8;Q8IXJ6;Q15013;P50748;O43264}  
 31430 Pathogen[ P03363] interacts with 6 human  
 partners:{Q9UJX2;Q9NQW6;O43264;P50748;Q15013;Q86SE8}  
 31431 [Cluster 2858]GO:0046688+P biological\_process [name] response to copper ion [def]  
 "Any process that results in a change in state or activity of a cell or an organism (in  
 terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a  
 copper ion stimulus." [GOC  
 31432 Pathogen[ Q2Q067] interacts with 3 human partners:{P04156;P05062;P19838}  
 31433 Pathogen[ P0C214] interacts with 5 human  
 partners:{P08294;P19838;Q16613;P05062;P04156}  
 31434 Pathogen[ P03346] interacts with 3 human partners:{P04156;P19838;P05062}  
 31435 Pathogen[ Q85601] interacts with 4 human partners:{Q16613;P05062;P04156;P19838}  
 31436 Pathogen[ P14079] interacts with 3 human partners:{P04156;P00395;Q16613}  
 31437 Pathogen[ P03383] interacts with 3 human partners:{P04156;Q16613;P19838}  
 31438 Pathogen[ P03410] interacts with 4 human partners:{P19838;P05062;Q16613;P04156}  
 31439 Pathogen[ P14075] interacts with 3 human partners:{P04156;Q16613;P19838}  
 31440 Pathogen[ P0C206] interacts with 4 human partners:{P05062;P04156;P19838;Q16613}  
 31441 Pathogen[ P03363] interacts with 2 human partners:{P04156;P19838}  
 31442 [Cluster 2859]GO:0006105+P biological\_process [name] succinate metabolic process  
 [def] "The chemical reactions and pathways involving succinate, also known as  
 butanedioate or ethane dicarboxylate, the dianion of succinic acid. Succinate is an  
 important intermediate in metabolism and a component of the TCA cycle." [ISBN  
 31443 Pathogen[ Q2Q067] interacts with 3 human partners:{P31040;P21912;Q9P2R7}  
 31444 Pathogen[ P0C214] interacts with 2 human partners:{Q9P2R7;P21912}  
 31445 Pathogen[ P03346] interacts with 2 human partners:{P31040;P21912}  
 31446 Pathogen[ Q85601] interacts with 3 human partners:{P21912;Q9P2R7;P31040}  
 31447 Pathogen[ P14079] interacts with 3 human partners:{Q9P2R7;P31040;P21912}  
 31448 Pathogen[ P03383] interacts with 2 human partners:{P31040;Q9P2R7}  
 31449 Pathogen[ P03410] interacts with 3 human partners:{Q9P2R7;P31040;P21912}  
 31450 Pathogen[ P14075] interacts with 2 human partners:{P31040;Q9P2R7}  
 31451 Pathogen[ P0C206] interacts with 3 human partners:{Q9P2R7;P31040;P21912}  
 31452 Pathogen[ P03363] interacts with 1 human partners:{P31040}  
 31453 [Cluster 2860]GO:0042981+P biological\_process [name] regulation of apoptotic process  
 [def] "Any process that modulates the occurrence or rate of cell death by apoptotic  
 process." [GOC  
 31454 Pathogen[ Q2Q067] interacts with 99 human

- partners:{P30153;Q99460;O75832;P48556;P02545;P40306;Q99583;P55036;P55957;Q9Y5V3;O15519;Q9BUP3;O00291;O00231;Q9UMX3;O00233;P36402;P51665;Q9UDY8;P28072;Q8WXF8;Q13077;P20749;Q12933;A5LHX3;O95999;P56945;Q13200;P25787;Q06323;Q13158;Q14790;P28065;O14818;P62324;P27797;Q9UK73;P35548;Q9UII2;Q8NE65;Q14997;O43236;O75618;P60900;Q9UL46;P61289;Q9BYX8;P12755;Q92843;P28062;Q13114;Q9UNM6;Q96LC9;P25788;Q9HD36;Q969U7;P42575;Q92530;Q92830;Q15164;P78560;P25786;O00198;O75030;Q16401;O00232;P28074;P25789;P12757;P0CG47;Q6QNY1;Q9UI32;Q9UKT9;Q9C000;Q9BYX4;P20618;P0CG48;Q9NWB7;P28070;Q9Y2G2;P28066;Q9BZR8;Q99436;Q8TAA3;P35232;P62987;O43242;Q15121;Q9UKG1;P49721;P49720;O00463;Q13490;P42224;O94763;O15392;O60936;Q16548;P62979}
- 31455 Pathogen[ P0C214] interacts with 108 human  
partners:{Q9NWB7;O00198;Q14997;P51665;P25789;P55036;Q8WXF8;Q9NPP4;Q9Y5V3;P28062;A5LHX3;Q13490;P12757;P56945;P28065;P30153;Q92934;Q96LC9;O75618;Q9HBF5;Q13158;O14818;Q9UDY8;O43242;P30405;P55957;Q15121;P42224;P48556;Q9UI32;Q9BYX4;P40306;O75030;Q13200;Q9UKG1;O00232;O15519;Q16548;Q99460;P28066;O75832;Q9BUP3;Q9UII2;P49720;P28074;P0CG48;Q9UL46;O95999;Q12933;Q9HD36;P20749;Q9UMX3;P25788;P42574;Q9UNM6;O00231;P62324;Q06323;P25786;Q9Y2G2;Q969U7;P12755;P28072;Q8TAA3;P36402;P62987;Q9UKT9;Q92843;O15392;O15164;Q99436;Q13114;P27797;P0CG47;P25787;Q92830;P78560;Q9UK73;O14727;P35998;P60900;P02545;O00233;Q6QNY1;P16220;O94763;P35232;O00463;P62979;O43236;Q92530;Q8NE65;Q15008;Q99583;P28070;Q9BYX8;P35548;O00291;P42575;O60936;P20618;P49721;Q16401;P55072;P17980;Q14790;Q9C000;Q9BZR8}
- 31456 Pathogen[ P03346] interacts with 116 human  
partners:{P25787;Q13077;O00463;P28070;Q969U7;P25789;P55036;P16220;O15392;Q99460;P12757;P36402;Q13489;Q9UL46;P35548;Q96LC9;P62987;Q9UKT9;P28072;Q9BUP3;Q13158;P25788;P28074;P49721;Q8WXF8;Q9UDY8;O94763;P42575;O14818;Q8NE65;Q99436;P55957;P0CG48;Q9BWT7;Q16401;A5LHX3;P28062;P42574;O75030;P20618;Q9BXY8;O00232;Q13114;O00291;P55072;P02545;Q92843;O15519;O95999;P30153;O75832;O00233;Q9UI32;P78560;Q6ZTQ3;Q9UII2;Q92830;P04080;Q06710;O43236;P56945;Q9NPP4;Q6QNY1;Q9NWB7;P49720;P28065;O95076;Q9HBF5;P60900;O75618;Q15121;P25786;O00231;O00198;P42224;Q6QOC0;Q07820;Q9Y5V3;P61289;Q9BZR8;P62979;P27797;P28066;Q9UNM6;Q9BYX4;Q9BUZ4;P20749;O60936;Q8TAA3;P55211;Q14790;P0CG47;Q9UKG1;Q16548;Q14997;Q13490;P35232;Q13200;P48556;O75052;P51665;Q9UMX3;Q9Y2G2;Q99583;P62324;Q06323;Q6FI F0;Q92530;Q9HD36;O14727;O43242;O15164;Q9UK73;P40306;Q8TB45;Q9C000}
- 31457 Pathogen[ Q85601] interacts with 97 human  
partners:{P28066;Q9UNM6;P30405;P60900;Q96LC9;P55036;P02545;Q13490;P25787;Q9HD36;P61289;O00463;Q13158;P25788;Q16548;Q9UDY8;Q14790;O75030;O75832;Q9NWB7;P62324;P12757;O60936;Q15121;P30153;Q9Y2G2;O15392;P27797;P0CG48;Q9UMX3;O15164;Q13114;O00198;P12755;P25789;O00233;Q9UII2;Q92830;P20618;Q9BXY8;Q9UK73;P56945;P40306;Q969U7;Q12933;P49720;P42575;P16220;Q9Y5V3;P28062;P49721;Q92843;O75618;P55957;P35548;Q9BYX4;Q8WXF8;P25786;P42224;P28072;Q13200;P36402;P28065;Q8NE65;P62979;Q99436;Q99583;P28070;Q8TAA3;Q9UL46;Q99460;O00231;P0CG47;Q9UKG1;Q13077;P35232;P48556;O94763;O00291;P28074;Q92530;P62987;O95999;A5LHX3;Q9UI32;Q9BZR8;Q06323;Q6QOC0;O14818;Q9BUP3;Q6QNY1;O15519;P20749;Q9UKT9;Q16401;P78560;O43236}
- 31458 Pathogen[ P14079] interacts with 115 human  
partners:{P28065;Q99436;Q9BXL7;O00463;P62333;O15164;P48556;O75618;P12755;O00291;Q9UKG1;P0CG48;Q9BYX4;Q9NWB7;Q6ZTQ3;P62324;Q16548;O95999;Q92830;O15519;P40306;Q13323;P55036;P28074;O00232;Q9UII2;P04080;Q9C000;Q9BXX5;O15392;P49720;O00487;P25787;O75832;P35232;A5LHX3;P62979;O00233;P35998;P61289;Q9BUZ4;P62987;Q13077;P36402;P51665;P20618;Q9BUP3;O94763;Q8TAA3;Q9UK73;Q9Y5U9;Q99583;Q9BZR8;Q9Y5V3;P54826;Q14997;Q14790;P28062;P60900;Q92934;Q15121;Q969U7;Q9BXY8;Q9HD36;Q9UNM6;Q99460;O14818;Q9HBF5;P46695;Q9BX69;O60936;P49721;Q9UMX3;Q9UI32;Q92530;P42224;Q8N9M5;Q9Y2G2;Q12933;P20749;Q96LC9;Q13158;Q06323;Q8TB45;P2191;O00198;Q8WXF8;P12757;Q15008;P30153;P43686;P42575;O43242;P25788;O00231;P28066;Q9UL46;P02545;O75030;P28360;P0CG47;Q9Y239;Q6QNY1;Q8NE65;Q16401;P17980;P28072;O43236;Q13114;P55957;Q9UKT9;P13693;Q13490;Q9NPP4;Q92843}
- 31459 Pathogen[ P03383] interacts with 80 human  
partners:{P02545;Q96LC9;P56945;P55036;P16220;P62987;Q9NWB7;P62324;P25789;P60900;Q9UK73;O43236;P40306;O75618;O00233;P20749;Q13490;P55957;Q9UMX3;O75030;P49721;Q06323;O60936;Q15121;P30153;Q14997;P20618;Q13158;Q9HBF5;O75832;P78560;O00291;Q9UII2;O94763;Q9BYX8;P35548;Q12933;Q92830;Q9Y5V3;Q16548;Q9UL46;Q9UNM6;P25786;Q99460;P28072;Q8NE65;Q13200;P36402;P35232;O95999;P28065;Q9Y2G2;P28066;Q99583;Q16401;Q8WXF8;P62979;O00231;P0CG47;Q9BUP3;O00198;Q9UKT9;P12757;P0CG48;P28074;Q92530;P49720;Q8TAA3;P61289;P28062;Q969U7;P48556;O14818;Q99436;Q13114;P28070;P25787;P27797;Q6QNY1;P25788}
- 31460 Pathogen[ P03410] interacts with 114 human  
partners:{Q92830;P20749;O15392;P28070;Q8WXF8;O94763;P55036;Q15121;P0CG48;Q9Y2G2;Q9Y239;Q6QNY1;P78560;P25786;P12755;Q15008;Q16401;Q13077;Q16548;P60900;Q14997;O00198;P42575;P36402;P35998;Q99460;Q96LC9;O00233;Q75030;O15519;Q13490;O00232;Q9BYX4;Q9HD36;Q8TAA3;Q92843;Q92934;P48556;P49721;Q9NPP4;Q9C000;O00291;Q9BXY8;A5LHX3;P62979;Q99436;P55957;Q13158;Q969U7;P40306;Q9UII2;Q06323;Q9UKT9;P35548;O60936;Q13200;P25787;O95999;O43236;Q9BXL7;Q9NWB7;Q9UMX3;O00463;Q9HBF5;P62324;P02545;P28062;P51665;Q99583;Q9BUP3;P13693;Q8NE65;Q12933;P16220;O14818;P12757;O00231;Q9UNM6;Q9UK73;P54826;P25789;P49720;Q9Y5V3;P30153;P62987;P56945;Q6ZTQ3;Q9Y5U9;O75052;P46695;Q8TB45;P28072;Q9UI32;Q9BZR8;O75618;P25788;P35232;Q9BX69;Q9BWT7;P28066;P28065;O43242;Q9UKG1;P30405;P0CG47;P17980;O75632;P20618;Q13114;Q9UL46;Q13323;P28074;P61289;P27797}
- 31461 Pathogen[ P14075] interacts with 80 human  
partners:{P78560;Q9UK73;Q9BUP3;P55036;P25788;P55957;P28066;O75030;Q06323;O75832;Q9UMX3;P62324;Q8TAA3;O43236;P60900;O00233;Q9UL46;P49720;P35548;Q969U7;Q16548;Q13200;P48556;Q16401;P28070;Q96LC9;O94763;P49721;O00231;P12757;Q92530;O00291;P35232;Q9UII2;P02545;P0CG48;P62979;O75618;Q9BXY8;P28062;Q13490;P28074;Q12933;P28065;Q6QNY1;P27797;Q9UK

T9;Q13158;Q8WXF8;P25786;O14818;P62987;Q13114;P28072;O95999;P36402;Q9NWB7;P30153;Q14997;P0CG47;P25787;P16220;Q9HBF5;P20618;Q99583;O60936;Q9UNM6;Q15121;P61289;Q9Y5V3;P40306;Q92830;Q99436;P54826;Q8NE65;O00198;P20749;P56945;Q9Y2G2;P25789}

31462 Pathogen[ P0C206] interacts with 112 human partners: {P61289;Q9C000;Q969U7;Q99436;P28062;Q9UNM6;P62324;P0CG48;Q9UKG1;O75832;Q92830;Q13077;P25787;P40306;Q9Y2G2;P28065;Q14997;Q9BUP3;O00291;Q13114;P55036;Q9BZR8;Q9BY8;Q9UDY8;P25786;P16220;P30153;Q9HD36;O75030;P25788;Q9UK73;P25787;Q15121;Q06323;Q99583;P78560;Q9UMX3;O95999;P49720;Q9Y5V3;O00232;Q6QNY1;P60900;O75618;O15164;Q13158;Q8NE65;Q12933;O43242;Q96LC9;O15519;O43236;A5LHX3;P12755;Q92934;P25789;Q16548;Q9BUZ4;O60936;Q92843;Q6ZTQ3;P20618;P12757;P35232;Q13200;Q8TAA3;P28070;Q8WXF8;Q9NWB7;P35548;Q99460;O00198;P62979;Q9BWT7;Q14790;P28066;P42574;O14818;O15392;P55072;O00463;Q13489;P0CG47;Q9UI32;P28072;P20749;P02545;P28074;P42575;Q9UKT9;P56945;Q9BXX5;Q92530;P49721;P62987;Q9BYX4;Q9Y5U9;P54826;Q9HBF5;P30405;Q9UL46;P42224;P36402;O00233;P48556;Q9UII2;Q16401;Q6Q0C0;P55957;O94763;O00231;Q13490}

31463 Pathogen[ P03363] interacts with 64 human partners: {Q13490;P55957;Q8NE65;Q9BUP3;Q8TB45;O15519;Q969U7;Q9HBF5;P02545;Q9C000;P36402;Q92530;Q96LC9;O75618;P12757;Q12933;O00463;P16220;Q15121;P35548;P61289;Q9BZR8;Q13158;Q16548;O00198;Q9NWB7;P20749;Q9HD36;O75030;P62324;Q92830;Q13077;Q9BWT7;Q13489;P27797;O94763;Q92843;Q6QNY1;P62987;Q9Y2G2;P78560;O60936;Q9UI32;Q6FIF0;P56945;O95076;Q9Y5V3;Q07820;Q13114;P35232;Q9BYX4;Q9UKT9;Q9NPP4;Q9BUZ4;P30153;Q9UK73;Q8WXF8;Q6ZTQ3;Q9UMX3;Q99583;O43236;Q9UKG1;O00291;Q9BXY8}

31464 [Cluster 2861]GO:0002726+P biological\_process [name] positive regulation of T cell cytokine production [def] "Any process that activates or increases the frequency, rate, or extent of T cell cytokine production." [GOC]

31465 Pathogen[ Q2Q067] interacts with 3 human partners: {Q9UDY8;Q12933;O43318}

31466 Pathogen[ P0C214] interacts with 3 human partners: {Q9UDY8;O43318;Q12933}

31467 Pathogen[ P03346] interacts with 3 human partners: {O75995;Q9UDY8;O43318}

31468 Pathogen[ Q85601] interacts with 3 human partners: {Q9UDY8;Q12933;O43318}

31469 Pathogen[ P14079] interacts with 1 human partners: {Q12933}

31470 Pathogen[ P03383] interacts with 2 human partners: {O43318;Q12933}

31471 Pathogen[ P03410] interacts with 2 human partners: {O43318;Q12933}

31472 Pathogen[ P14075] interacts with 2 human partners: {Q12933;O43318}

31473 Pathogen[ P0C206] interacts with 3 human partners: {Q9UDY8;O43318;Q12933}

31474 Pathogen[ P03363] interacts with 2 human partners: {Q12933;O43318}

31475 [Cluster 2862]GO:0048588+P biological\_process [name] developmental cell growth [def] "The growth of a cell, where growth contributes to the progression of the cell over time from one condition to another." [GOC]

31476 Pathogen[ Q2Q067] interacts with 2 human partners: {O95376;P55345}

31477 Pathogen[ P0C214] interacts with 2 human partners: {P55345;O95376}

31478 Pathogen[ P03346] interacts with 2 human partners: {O95376;P55345}

31479 Pathogen[ Q85601] interacts with 2 human partners: {O95376;P55345}

31480 Pathogen[ P14079] interacts with 1 human partners: {P55345}

31481 Pathogen[ P03383] interacts with 1 human partners: {O95376}

31482 Pathogen[ P03410] interacts with 1 human partners: {P55345}

31483 Pathogen[ P14075] interacts with 1 human partners: {O95376}

31484 Pathogen[ P0C206] interacts with 2 human partners: {O95376;P55345}

31485 Pathogen[ P03363] interacts with 1 human partners: {O95376}

31486 [Cluster 2863]GO:0042308+P biological\_process [name] negative regulation of protein import into nucleus [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the movement of proteins from the cytoplasm into the nucleus." [GOC]

31487 Pathogen[ Q2Q067] interacts with 1 human partners: {Q9P1T7}

31488 Pathogen[ P0C214] interacts with 1 human partners: {Q9P1T7}

31489 Pathogen[ P03346] interacts with 2 human partners: {Q9P1T7;P61925}

31490 Pathogen[ Q85601] interacts with 1 human partners: {Q9P1T7}

31491 Pathogen[ P14079] interacts with 2 human partners: {Q9P1T7;P61925}

31492 Pathogen[ P03383] interacts with 1 human partners: {Q9P1T7}

31493 Pathogen[ P03410] interacts with 2 human partners: {P61925;Q9P1T7}

31494 Pathogen[ P14075] interacts with 1 human partners: {Q9P1T7}

31495 Pathogen[ P0C206] interacts with 2 human partners: {P61925;Q9P1T7}

31496 Pathogen[ P03363] interacts with 2 human partners: {Q9P1T7;P61925}

31497 [Cluster 2864]GO:0097193+P biological\_process [name] intrinsic apoptotic signaling pathway [def] "A series of molecular signals in which an intracellular signal is conveyed to trigger the apoptotic death of a cell. The pathway starts with reception of an intracellular signal (e.g. DNA damage, growth factor withdrawal, endoplasmic reticulum stress, oxidative stress etc.), and ends when the execution phase of apoptosis is triggered. The intrinsic apoptotic signaling pathway is crucially regulated by permeabilization of the mitochondrial outer membrane (MOMP)." [GOC]

31498 Pathogen[ Q2Q067] interacts with 10 human partners: {O43290;Q93034;Q9NR28;P25063;Q13616;P38936;Q13618;Q13619;P49593;Q13617}

31499 Pathogen[ P0C214] interacts with 14 human partners: {Q13619;Q13617;Q92934;Q13015;Q13618;Q93034;P38936;P25063;Q13616;P10909;O43290;P49593;O14727;Q9NR28}

31500 Pathogen[ P03346] interacts with 13 human partners: {O43290;Q13616;Q9NR28;Q13618;P49593;Q93034;Q13015;Q13619;P25063;P38936;Q96DT0;O14727;Q13617}

31501 Pathogen[ Q85601] interacts with 10 human

31502 partners:{P49593;Q13616;Q9NR28;Q13015;O43290;P38936;Q13618;Q13619;Q93034;Q13617}  
Pathogen[ P14079] interacts with 15 human

31503 partners:{P49593;Q13618;Q96DT0;P10909;O43290;Q92934;P38936;Q93034;P25063;Q9NR28;Q13617;Q13616;P52701;Q13015;Q13619}

31504 Pathogen[ P03383] interacts with 8 human  
partners:{Q13616;O43290;Q93034;P25063;Q13618;Q13015;Q13617;Q9NR28}

31505 Pathogen[ P03410] interacts with 15 human  
partners:{Q13015;Q9NR28;Q92934;Q13618;P52701;Q96DT0;P38936;P25063;Q13616;Q13619;P49593;Q13617;O43290;Q93034;P10909}

31506 Pathogen[ P14075] interacts with 8 human  
partners:{Q93034;Q13618;Q13015;Q9NR28;Q13616;O43290;Q13617;P25063}

31507 Pathogen[ P0C206] interacts with 15 human  
partners:{Q9NR28;P52701;Q13616;O43290;Q92934;P49593;Q13619;Q13617;P25063;Q13618;Q13015;P10909;P38936;Q96DT0;Q93034}

31508 Pathogen[ P03363] interacts with 8 human  
partners:{Q13618;Q13617;Q13015;Q13619;Q13616;Q9NR28;O43290;Q93034}

31509 [Cluster 2865]GO:0070293+P biological\_process [name] renal absorption [def] "A renal system process in which water, ions, glucose and proteins are taken up from the collecting ducts, glomerulus and proximal and distal loops of the nephron." [GOC

31510 Pathogen[ Q2Q067] interacts with 1 human partners:{P68871}

31511 Pathogen[ P0C214] interacts with 1 human partners:{P68871}

31512 Pathogen[ P03346] interacts with 1 human partners:{P68871}

31513 Pathogen[ Q85601] interacts with 1 human partners:{P68871}

31514 Pathogen[ P14079] interacts with 1 human partners:{P68871}

31515 Pathogen[ P03383] interacts with 1 human partners:{P68871}

31516 Pathogen[ P03410] interacts with 1 human partners:{P68871}

31517 Pathogen[ P14075] interacts with 1 human partners:{P68871}

31518 Pathogen[ P0C206] interacts with 1 human partners:{P68871}

31519 Pathogen[ P03363] interacts with 1 human partners:{P68871}

31520 [Cluster 2866]GO:0007602+P biological\_process [name] phototransduction [def] "The sequence of reactions within a cell required to convert absorbed photons into a molecular signal." [GOC

31521 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13432}

31522 Pathogen[ P0C214] interacts with 1 human partners:{Q13432}

31523 Pathogen[ P03346] interacts with 1 human partners:{Q13432}

31524 Pathogen[ Q85601] interacts with 1 human partners:{Q13432}

31525 Pathogen[ P14079] interacts with 1 human partners:{Q13432}

31526 Pathogen[ P03383] interacts with 1 human partners:{Q13432}

31527 Pathogen[ P03410] interacts with 1 human partners:{Q13432}

31528 Pathogen[ P14075] interacts with 1 human partners:{Q13432}

31529 Pathogen[ P0C206] interacts with 1 human partners:{Q13432}

31530 Pathogen[ P03363] interacts with 1 human partners:{Q13432}

31531 [Cluster 2867]GO:0006613+P biological\_process [name] cotranslational protein targeting to membrane [def] "The targeting of proteins to a membrane that occurs during translation. The transport of most secretory proteins, particularly those with more than 100 amino acids, into the endoplasmic reticulum lumen occurs in this manner, as does the import of some proteins into mitochondria." [ISBN

31532 Pathogen[ Q2Q067] interacts with 2 human partners:{P09132;Q15629}

31533 Pathogen[ P0C214] interacts with 2 human partners:{Q15629;P09132}

31534 Pathogen[ P03346] interacts with 3 human partners:{Q15629;P09132;Q15041}

31535 Pathogen[ Q85601] interacts with 2 human partners:{Q15629;P09132}

31536 Pathogen[ P14079] interacts with 5 human  
partners:{Q15629;P09132;Q15041;P43307;Q99442}

31537 Pathogen[ P03383] interacts with 2 human partners:{P09132;Q15629}

31538 Pathogen[ P03410] interacts with 5 human  
partners:{Q15041;Q99442;P43307;P09132;Q15629}

31539 Pathogen[ P14075] interacts with 2 human partners:{P09132;Q15629}

31540 Pathogen[ P0C206] interacts with 3 human partners:{P09132;Q15041;Q15629}

31541 Pathogen[ P03363] interacts with 2 human partners:{P09132;Q15041}

31542 [Cluster 2868]GO:2001020+P biological\_process [name] regulation of response to DNA damage stimulus [def] "Any process that modulates the frequency, rate or extent of response to DNA damage stimulus." [GOC

31543 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9H160}

31544 Pathogen[ P0C214] interacts with 1 human partners:{Q9H160}

31545 Pathogen[ P03346] interacts with 1 human partners:{Q9H160}

31546 Pathogen[ Q85601] interacts with 1 human partners:{Q9H160}

31547 Pathogen[ P14079] interacts with 1 human partners:{Q9H160}

31548 Pathogen[ P03383] interacts with 1 human partners:{Q9H160}

31549 Pathogen[ P03410] interacts with 1 human partners:{Q9H160}

31550 Pathogen[ P14075] interacts with 1 human partners:{Q9H160}

31551 Pathogen[ P0C206] interacts with 1 human partners:{Q9H160}

31552 Pathogen[ P03363] interacts with 1 human partners:{Q9H160}

31553 [Cluster 2869]GO:0030308+P biological\_process [name] negative regulation of cell growth [def] "Any process that stops, prevents, or reduces the frequency, rate, extent or direction of cell growth." [GOC

31554 Pathogen[ Q2Q067] interacts with 39 human

- partners:{P30153;O00213;P42773;P06400;Q9NXV6;Q6IE81;Q13485;P41182;P51531;Q14140;O75489;Q92870;P02511;P08107;P67775;Q9Y2B4;P62324;Q96CJ1;Q6PGN9;P84022;P09467;P51532;Q9P0J0;P38936;Q99543;Q9UKN5;Q13642;P42771;P35232;Q16576;P46527;P06733;Q15834;Q12816;A2A288;P32929;Q9BT92;Q9UJW9;Q9H2G4}
- 31554 Pathogen[ POC214] interacts with 41 human  
partners:{O00213;Q9UKN5;Q96CJ1;O14681;P30153;P02511;P84022;P46527;Q12816;P38936;Q8IWE4;P32929;Q9BT92;Q6PGN9;Q13642;A2A288;Q15834;P09467;Q9P0J0;Q13485;Q16576;P67775;P42771;P62324;P41182;P07093;P06733;Q9H2G4;Q14140;P42773;Q6IE81;Q9NXV6;O75489;Q99543;P35232;P51531;P08107;P06400;Q92870;Q9UJW9;P51532}
- 31555 Pathogen[ P03346] interacts with 47 human  
partners:{P08107;P85037;O00213;Q96CJ1;A2A288;P55273;Q15834;Q99543;O75489;P06400;P51532;Q96FS4;Q9H2G4;P25686;P67775;P09467;P42771;Q8IWE4;Q9BT92;Q9NXV6;Q92870;Q12816;P06733;P30153;P84022;P02511;P32929;Q6PGN9;Q16576;P42773;Q13642;Q6IE81;P41182;Q8IUI8;P35232;Q13485;P38936;P62324;P51531;Q9P0J0;P46527;Q9Y2B4;P10916;Q9UKN5;Q9UJW9;Q96M02;Q14140}
- 31556 Pathogen[ Q85601] interacts with 41 human  
partners:{Q99543;O00213;Q96CJ1;Q96M02;Q6PGN9;P08107;Q9P0J0;P55273;Q15834;P06400;Q9UKN5;P62324;P30153;Q13642;P06733;Q9BT92;P51531;P51532;A2A288;Q16576;P02511;P42771;Q12816;P42773;Q6IE81;P67775;P09467;P84022;Q92870;P35232;Q9H2G4;P38936;Q14140;Q8IWE4;P41182;P07093;Q13485;Q9NXV6;Q9UJW9;P46527;P32929}
- 31557 Pathogen[ P14079] interacts with 48 human  
partners:{Q9UGV2;Q9H295;P62324;Q96CJ1;P02511;P51532;Q9NXV6;P51531;Q12816;O00213;P35232;P10916;Q96B18;P06733;Q6IE81;Q16576;P55273;Q96M02;Q99543;Q9UJW9;P54826;P41182;Q13642;Q9H2G4;P38936;P08107;Q9P0J0;Q15834;P13232;P32929;Q96QR1;Q6PGN9;O75489;Q9BT92;P46527;Q9Y2B4;Q8IUI8;P42773;P30153;A2A288;P09467;Q9UKN5;P28360;Q14140;O14681;Q92870;P42771;Q8IWE4}
- 31558 Pathogen[ P03383] interacts with 36 human  
partners:{P08107;O00213;Q13485;P62324;Q96CJ1;P02511;O75489;P09467;P30153;P67775;P06400;A2A288;Q8IWE4;Q92870;Q6PGN9;P84022;Q12816;P46527;Q9BT92;Q9UKN5;P51531;P35232;Q99543;P42771;Q9H2G4;P51532;O14681;Q14140;Q9NXV6;Q6IE81;Q9P0J0;Q13642;P06733;Q15834;Q16576;Q9UJW9}
- 31559 Pathogen[ P03410] interacts with 50 human  
partners:{P84022;Q96M02;P42771;P46527;Q96QR1;O14681;P10916;Q8IWE4;Q9Y2B4;P32929;P06733;Q96B18;P55273;P25686;A2A288;O00213;Q9NXV6;P06400;P09467;Q9UJW9;Q16576;Q9BT92;P38936;Q9UKN5;P08107;P62324;P02511;Q14140;Q8IUI8;Q13485;O75489;Q15834;P41182;P51532;Q13642;Q96CJ1;P54826;P51531;P30153;Q12816;Q6PGN9;Q9P0J0;Q99543;P35232;P67775;Q9H2G4;P42773;Q6IE81;P13232;Q92870}
- 31560 Pathogen[ P14075] interacts with 38 human  
partners:{P06733;O00213;Q16576;Q9NXV6;O14681;P62324;P51532;Q9UKN5;Q12816;P42771;Q92870;Q99543;Q9BT92;Q9H2G4;Q13642;P46527;Q9Y2B4;Q13485;P35232;Q96QR1;Q6IE81;Q15834;P51531;Q96CJ1;P06400;P02511;P67775;P30153;Q6PGN9;P08107;P84022;O75489;P09467;Q9P0J0;P54826;Q9UJW9;A2A288;Q14140}
- 31561 Pathogen[ POC206] interacts with 46 human  
partners:{P06733;P84022;P62324;Q96M02;P51532;Q9BT92;Q13642;P30153;P51531;P41182;P09467;Q9NXV6;A2A288;Q8IWE4;P42771;Q14140;Q6PGN9;P67775;Q96B18;P42773;O00213;O14681;Q9UKN5;P35232;Q96CJ1;Q99543;P32929;Q12816;Q15834;P55273;P46527;Q92870;P38936;P08107;Q9H2G4;Q13485;Q9P0J0;Q6IE81;O75489;Q16576;Q9Y2B4;P02511;P54826;Q9UK53;Q9UJW9;P06400}
- 31562 Pathogen[ P03363] interacts with 36 human  
partners:{Q6IE81;Q15834;A2A288;Q99543;Q9UKN5;O00213;P51532;P06733;Q96M02;P06400;Q9UGV2;Q14140;Q6PGN9;Q16576;P08107;Q9P0J0;P62324;Q9H2G4;Q92870;P84022;Q9BT92;Q13485;P35232;Q13642;Q96CJ1;P42773;P51531;P30153;Q9Y2B4;P67775;Q9NXV6;Q9UJW9;P42771;Q96FS4;P10916;Q12816}
- 31563 [Cluster 2870]GO:0048147+P biological\_process [name] negative regulation of fibroblast proliferation [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of multiplication or reproduction of fibroblast cells." [GOC
- 31564 Pathogen[ Q2Q067] interacts with 9 human  
partners:{P50402;P01106;Q6P1J9;O60356;Q13794;P12755;Q53GL7;Q71SY5;Q9UI36}
- 31565 Pathogen[ POC214] interacts with 10 human  
partners:{P02794;Q71SY5;Q13794;Q53GL7;P50402;Q6P1J9;O60356;P12755;Q9UI36;P01106}
- 31566 Pathogen[ P03346] interacts with 10 human  
partners:{Q71SY5;Q14149;Q53GL7;P02794;P01106;P50402;O60356;Q9UI36;Q6P1J9;Q13794}
- 31567 Pathogen[ Q85601] interacts with 11 human  
partners:{P01106;Q6P1J9;Q14149;P12755;Q9UI36;Q71SY5;P50402;O60356;P02794;Q53GL7;Q13794}
- 31568 Pathogen[ P14079] interacts with 11 human  
partners:{P12755;Q14149;Q13794;Q9UI36;P01106;P02794;Q71SY5;Q53GL7;O60356;P50402;Q6P1J9}
- 31569 Pathogen[ P03383] interacts with 9 human  
partners:{P02794;Q6P1J9;P01106;Q53GL7;P50402;Q71SY5;Q13794;Q9UI36;O60356}
- 31570 Pathogen[ P03410] interacts with 11 human  
partners:{Q9UI36;P02794;P12755;P01106;Q53GL7;Q14149;Q13794;O60356;Q6P1J9;P50402;Q71SY5}
- 31571 Pathogen[ P14075] interacts with 9 human  
partners:{P50402;P01106;Q6P1J9;P02794;O60356;Q13794;Q9UI36;Q71SY5;Q53GL7}
- 31572 Pathogen[ POC206] interacts with 11 human  
partners:{P50402;P02794;Q53GL7;P12755;O60356;Q14149;Q71SY5;P01106;Q9UI36;Q6P1J9;Q137

94}

31573 Pathogen[ P03363] interacts with 9 human partners: {O60356;Q71SY5;Q13794;P01106;Q9UI36;Q6P1J9;P50402;P02794;Q53GL7}

31574 [Cluster 2871]GO:0032793+P biological\_process [name] positive regulation of CREB transcription factor activity [def] "Any process that activates or increases the frequency, rate or extent of activity of the transcription factor CREB." [GOC

31575 Pathogen[ Q2Q067] interacts with 4 human partners: {Q6UUUV9;O75582;Q6UUUV7;Q53ET0}

31576 Pathogen[ P0C214] interacts with 4 human partners: {Q6UUUV7;Q53ET0;Q6UUUV9;O75582}

31577 Pathogen[ P03346] interacts with 4 human partners: {Q53ET0;Q6UUUV9;O75582;Q6UUUV7}

31578 Pathogen[ Q85601] interacts with 4 human partners: {Q53ET0;Q6UUUV9;O75582;Q6UUUV7}

31579 Pathogen[ P14079] interacts with 1 human partners: {O75582}

31580 Pathogen[ P03383] interacts with 4 human partners: {O75582;Q6UUUV9;Q6UUUV7;Q53ET0}

31581 Pathogen[ P03410] interacts with 4 human partners: {Q6UUUV7;O75582;Q6UUUV9;Q53ET0}

31582 Pathogen[ P14075] interacts with 4 human partners: {O75582;Q53ET0;Q6UUUV9;Q6UUUV7}

31583 Pathogen[ P0C206] interacts with 4 human partners: {O75582;Q6UUUV9;Q53ET0;Q6UUUV7}

31584 Pathogen[ P03363] interacts with 3 human partners: {Q53ET0;Q6UUUV9;Q6UUUV7}

31585 [Cluster 2872]GO:0014070+P biological\_process [name] response to organic cyclic compound [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an organic cyclic compound stimulus." [CHEBI

31586 Pathogen[ Q2Q067] interacts with 22 human partners: {P01100;P24385;P40763;Q04206;P30279;P05062;Q99933;P49356;Q6P1X5;P09972;P24864;P29474;P35869;P38936;Q9HBM6;P16455;P06132;P49721;P15407;P08397;P42772;P78543}

31587 Pathogen[ P0C214] interacts with 27 human partners: {P06132;P29474;P35869;P78543;P15407;P01100;P17275;Q04206;Q16613;P24385;P38936;P05062;P08397;Q99933;Q9HBM6;P09104;P49356;Q6P1X5;P09972;P16455;P05412;P24864;P30279;P40763;P42772;P49721;P18846}

31588 Pathogen[ P03346] interacts with 24 human partners: {P05412;P09972;P24385;P30279;P29474;P48443;P49721;P17275;P42772;Q04206;P24864;P49356;Q9HBM6;Q6P1X5;P06132;P15407;P05062;P38936;P35869;P40763;P78543;P01100;Q99933;P18846}

31589 Pathogen[ Q85601] interacts with 26 human partners: {P24385;P16455;P15407;P40763;P42772;Q16613;P18846;P05062;P01100;Q9HBM6;Q99933;P78543;Q04206;P09972;P49721;P30279;Q6P1X5;P05412;P06132;P49356;P29474;P08397;P35869;P38936;P17275;P24864}

31590 Pathogen[ P14079] interacts with 24 human partners: {P04083;P78543;P35869;P24864;P20396;P09972;P16455;P48443;Q16613;Q6P1X5;P06132;P38936;Q99933;P08397;P17275;P49356;P49721;Q99541;P15407;Q16625;P05412;P01100;P03886;Q9HBM6}

31591 Pathogen[ P03383] interacts with 21 human partners: {P29474;P09972;Q9HBM6;P49721;Q16613;P24385;P18846;P30279;P78543;P06132;P42772;P15407;Q6P1X5;Q99933;P01100;Q04206;P08397;P24864;P17275;P35869;P05412}

31592 Pathogen[ P03410] interacts with 28 human partners: {Q99933;Q04206;P08397;P30279;P42772;P49356;P49721;P06132;P05062;P01100;P18846;P24385;P29474;P09972;P03886;Q9HBM6;P38936;P17275;Q16613;Q6P1X5;P16455;P05412;Q16625;P78543;P15407;P24864;P40763;P20396}

31593 Pathogen[ P14075] interacts with 21 human partners: {P29474;Q99933;P35869;Q04206;P06132;P05412;P17275;P30279;Q6P1X5;Q16613;P08397;P49721;P78543;P01100;P42772;P09972;P24385;P15407;P18846;P24864;Q9HBM6}

31594 Pathogen[ P0C206] interacts with 28 human partners: {P05062;P15407;P17275;P35869;Q99933;P30279;P05412;P42772;P18846;P01100;Q04206;P38936;P40763;P29474;Q6P1X5;P09972;Q9HBM6;P49721;P08397;P20396;Q16613;P49356;P24864;P16455;P06132;P48443;P78543;P24385}

31595 Pathogen[ P03363] interacts with 18 human partners: {P29474;Q04206;P24864;P30279;P09972;P06132;P78543;P35869;P17275;P42772;P18846;P15407;P24385;Q9HBM6;P05412;Q6P1X5;Q99933;P01100}

31596 [Cluster 2873]GO:0006955+P biological\_process [name] immune response [def] "Any immune system process that functions in the calibrated response of an organism to a potential internal or invasive threat." [GO\_REF

31597 Pathogen[ Q2Q067] interacts with 30 human partners: {Q12905;Q9Y6K5;Q99081;P14921;P36402;Q13829;Q06265;P37275;Q13123;O15117;P17676;P22670;P80217;Q95163;Q07021;P84022;Q14862;Q9Y6K9;O43541;O43918;Q13094;Q02556;P50453;P17861;P42768;O15111;Q16649;Q9Y255;P53567;P33076}

31598 Pathogen[ P0C214] interacts with 33 human partners: {P80217;P53567;P02794;O15117;O15111;Q9Y6K9;P14921;Q14164;Q13829;Q9Y255;Q99081;P33076;Q9Y6K5;P84022;P48594;P29728;P37275;Q12905;Q13094;P17676;Q9Y3Z3;Q02556;P17861;O43541;O43918;P36402;P50453;P22670;Q14862;P42768;Q06265;Q13123;Q95163}

31599 Pathogen[ P03346] interacts with 39 human partners: {Q99081;Q9Y3Z3;Q9Y6K9;O15111;Q12905;O43918;P17676;P36402;P42768;Q8IYW1;P17861;P33076;Q95163;Q07021;P02794;Q13829;Q9Y255;P22670;P14921;P84022;Q8IYM9;O43541;Q15646;Q02556;Q13094;O75569;Q02086;P37275;Q16649;Q13123;P50453;P80217;P53567;Q06265;O15117;Q8TAU0;Q14862;Q14164;Q9Y6K5}

31600 Pathogen[ Q85601] interacts with 32 human partners: {P17676;P33076;Q02556;P14921;O43541;P53567;O15111;P80217;Q14164;Q13123;Q9Y6K9;O15117;Q9Y6K5;Q16649;P42768;Q8IYM9;O14862;P36402;P50453;P22670;Q06265;P84022;P37275;Q12905;Q99081;Q13829;Q95163;P02794;Q07021;P17861;O43918;Q13094}

31601 Pathogen[ P14079] interacts with 42 human partners: {P33076;P29728;Q16649;Q9Y255;P09912;P53567;P80217;Q13094;Q14164;O95163;O75569;P60022;O00178;P36402;P02686;Q12905;O15117;O15263;Q9Y3Z3;Q9Y6K9;Q9Y6K5;P22670;P04141;P13232;P81172;P50453;P02794;O43541;O14862;Q8I WV1;O43918;P29459;O43561;Q02556;Q13829;Q99081;Q07021;Q9UBP8;Q06265;P37275;P42768;Q13123}

31602 Pathogen[ P03383] interacts with 29 human partners: {P02794;Q06265;O14862;O95163;P33076;Q9Y6K9;P14921;O15111;P17861;P22670;P37275;O15117;P84022;P80217;Q13123;P17676;Q99081;O43541;P42768;Q13094;Q12905;Q9Y6K5;P36402;P50453;O43918;Q07021;Q02556;P53567;Q13829}

31603 Pathogen[ P03410] interacts with 48 human partners: {P84022;P22670;P04141;Q13094;Q13829;P02794;P17861;P37275;P12018;P29728;P17676;O15111;P36402;Q9Y255;Q06265;P53567;O43561;P02686;O14862;Q8I WV1;O43918;Q07021;P09912;P42768;P60022;O75569;Q02556;Q99081;Q9UBP8;Q16649;O95163;Q12905;P81172;O43541;P50453;P80217;O15117;Q9Y6K5;Q13123;Q9Y6K9;Q9Y3Z3;O00178;P33076;Q9NRJ3;P29459;O15263;P14921;P13232}

31604 Pathogen[ P14075] interacts with 31 human partners: {O15111;Q8I WV1;Q07021;P22670;P17861;P53567;O43541;Q12905;P42768;O43918;P80217;P33076;O15117;Q9Y255;Q02556;O14862;P02794;Q9Y6K5;Q13123;P14921;P36402;P50453;Q13094;O95163;Q9Y6K9;P84022;P17676;P37275;Q13829;Q99081;Q06265}

31605 Pathogen[ P0C206] interacts with 36 human partners: {P84022;P53567;O43541;Q13829;Q16649;Q12905;Q9Y6K9;P14921;O14862;P02794;Q07021;Q9Y6K5;Q8I WV1;P29728;P50453;P33076;P80217;Q13123;P17861;O95163;O43918;Q02556;Q14164;Q99081;P17676;Q9Y255;Q06265;O15111;P22670;P37275;Q8I YM9;Q13094;P42768;Q8TAU0;O15117;P36402}

31606 Pathogen[ P03363] interacts with 32 human partners: {Q9Y6K5;Q16649;P17676;P53567;P36402;Q02556;P37275;O15111;P42768;Q9Y6K9;P80217;P14921;P50453;Q07021;O15117;Q13123;O43541;P17861;P84022;O95163;Q12905;Q9Y3Z3;Q13829;P33076;O14862;O43918;Q99081;Q8TAU0;P02794;Q13094;P22670;O75569}

31607 [Cluster 2874]GO:0021537+P biological\_process [name] telencephalon development [def] "The process whose specific outcome is the progression of the telencephalon over time, from its formation to the mature structure. The telencephalon is the paired anteriolateral division of the prosencephalon plus the lamina terminalis from which the olfactory lobes, cerebral cortex, and subcortical nuclei are derived." [GO\_REF

31608 Pathogen[ Q2Q067] interacts with 1 human partners: {Q92830}

31609 Pathogen[ P0C214] interacts with 2 human partners: {Q92830;O60925}

31610 Pathogen[ P03346] interacts with 4 human partners: {Q68CZ1;Q92830;O60925;O95343}

31611 Pathogen[ Q85601] interacts with 1 human partners: {Q92830}

31612 Pathogen[ P14079] interacts with 3 human partners: {O60925;Q92830;Q68CZ1}

31613 Pathogen[ P03383] interacts with 2 human partners: {Q92830;O60925}

31614 Pathogen[ P03410] interacts with 3 human partners: {Q92830;O60925;Q68CZ1}

31615 Pathogen[ P14075] interacts with 2 human partners: {O60925;Q92830}

31616 Pathogen[ P0C206] interacts with 2 human partners: {Q92830;O60925}

31617 Pathogen[ P03363] interacts with 3 human partners: {O60925;Q92830;O95343}

31618 [Cluster 2875]GO:0043353+P biological\_process [name] enucleate erythrocyte differentiation [def] "The process in which a myeloid precursor cell acquires specialized features of an erythrocyte without a nucleus. An example of this process is found in *Mus musculus*." [GOC

31619 Pathogen[ Q2Q067] interacts with 4 human partners: {P06400;Q02447;P08047;P53567}

31620 Pathogen[ P0C214] interacts with 4 human partners: {P53567;Q02447;P06400;P08047}

31621 Pathogen[ P03346] interacts with 4 human partners: {P06400;P08047;P53567;Q02447}

31622 Pathogen[ Q85601] interacts with 4 human partners: {P06400;P53567;P08047;Q02447}

31623 Pathogen[ P14079] interacts with 3 human partners: {P53567;Q02447;P02144}

31624 Pathogen[ P03383] interacts with 4 human partners: {P08047;P06400;Q02447;P53567}

31625 Pathogen[ P03410] interacts with 5 human partners: {P02144;Q02447;P53567;P06400;P08047}

31626 Pathogen[ P14075] interacts with 4 human partners: {P53567;P06400;Q02447;P08047}

31627 Pathogen[ P0C206] interacts with 4 human partners: {P53567;P08047;Q02447;P06400}

31628 Pathogen[ P03363] interacts with 4 human partners: {P53567;Q02447;P06400;P08047}

31629 [Cluster 2876]GO:0017015+P biological\_process [name] regulation of transforming growth factor beta receptor signaling pathway [def] "Any process that modulates the frequency, rate or extent of activity of any TGF-beta receptor signaling pathway." [GOC

31630 Pathogen[ Q2Q067] interacts with 10 human partners: {Q9UPN9;Q9HAU4;O00512;Q13485;Q9H7S9;P84022;O15105;Q15796;Q8N6I1;Q16612}

31631 Pathogen[ P0C214] interacts with 10 human partners: {Q9HAU4;P84022;Q8N6I1;Q13485;O15105;Q15796;O00512;Q16612;Q9UPN9;Q9H7S9}

31632 Pathogen[ P03346] interacts with 10 human partners: {Q9UPN9;Q9HAU4;Q15796;O15105;P84022;O00512;Q9H7S9;Q8N6I1;Q13485;Q16612}

31633 Pathogen[ Q85601] interacts with 10 human partners: {Q16612;Q9UPN9;Q9HAU4;Q9H7S9;Q8N6I1;O00512;P84022;O15105;Q13485;Q15796}

31634 Pathogen[ P14079] interacts with 7 human partners: {Q9HAU4;O00512;Q9UPN9;Q9H7S9;O15105;Q16612;Q8N6I1}

31635 Pathogen[ P03383] interacts with 9 human partners: {Q16612;Q13485;Q8N6I1;Q9UPN9;O15105;P84022;Q9H7S9;O00512;Q15796}

31636 Pathogen[ P03410] interacts with 9 human partners: {P84022;O00512;Q8N6I1;Q16612;Q13485;O15105;Q9H7S9;Q15796;Q9UPN9}

31637 Pathogen[ P14075] interacts with 8 human



31638 Pathogen[ POC206] interacts with 10 human partners:{O00512;Q15796;Q13485;Q9UPN9;Q8N6I1;O15105;P84022;Q9H7S9}

31639 Pathogen[ POC3363] interacts with 10 human partners:{P84022;O00512;Q9UPN9;Q8N6I1;Q9HAU4;Q15796;Q9H7S9;O15105;Q16612;Q13485}

31640 [Cluster 2877]GO:0003218+P biological\_process [name] cardiac left ventricle formation [def] "The developmental process pertaining to the initial formation of a left cardiac ventricle from unspecified parts." [GOC

31641 Pathogen[ Q2Q067] interacts with 1 human partners:{O96004}

31642 Pathogen[ POC214] interacts with 1 human partners:{O96004}

31643 Pathogen[ POC3346] interacts with 2 human partners:{O96004;Q99593}

31644 Pathogen[ Q85601] interacts with 1 human partners:{O96004}

31645 Pathogen[ P14079] interacts with 1 human partners:{O96004}

31646 Pathogen[ POC3383] interacts with 1 human partners:{O96004}

31647 Pathogen[ POC3410] interacts with 1 human partners:{O96004}

31648 Pathogen[ P14075] interacts with 1 human partners:{O96004}

31649 Pathogen[ POC206] interacts with 1 human partners:{O96004}

31650 Pathogen[ POC3363] interacts with 1 human partners:{O96004}

31651 [Cluster 2878]GO:0030900+P biological\_process [name] forebrain development [def] "The process whose specific outcome is the progression of the forebrain over time, from its formation to the mature structure. The forebrain is the anterior of the three primary divisions of the developing chordate brain or the corresponding part of the adult brain (in vertebrates, includes especially the cerebral hemispheres, the thalamus, and the hypothalamus and especially in higher vertebrates is the main control center for sensory and associative information processing, visceral functions, and voluntary motor functions)." [http

31652 Pathogen[ Q2Q067] interacts with 12 human partners:{Q33E94;Q03052;Q01094;P10589;Q9NXR1;O15350;Q8NHM5;Q15468;P46100;Q9HBD4;Q04743;Q03112}

31653 Pathogen[ POC214] interacts with 12 human partners:{Q03052;P32243;O15350;Q03112;Q9HBD4;Q01094;P46100;Q15468;O14727;Q9NXR1;Q33E94;Q8NHM5}

31654 Pathogen[ POC3346] interacts with 22 human partners:{Q9HBD4;P46100;Q03052;P41225;Q04743;Q9NXR1;Q9BYW2;Q96QS3;O15350;Q01094;Q33E94;Q03112;P32243;Q8NHM5;Q9Y6R0;Q15468;P32243;P56915;O14727;Q9UIW0;Q9H2A3;P10589}

31655 Pathogen[ Q85601] interacts with 11 human partners:{Q03052;Q33E94;Q03112;Q8NHM5;P32243;Q9HBD4;O15350;Q9NXR1;P46100;Q01094;P10589}

31656 Pathogen[ P14079] interacts with 12 human partners:{Q8NHM5;O15350;P46100;Q15468;Q8WU20;P32243;Q04743;Q03052;P10589;Q9NXR1;P28360;Q01094}

31657 Pathogen[ POC3383] interacts with 8 human partners:{Q9HBD4;P32243;Q01094;Q15468;Q33E94;P46100;Q03112;O15350}

31658 Pathogen[ POC3410] interacts with 13 human partners:{Q03112;Q9NXR1;Q15468;Q03052;P46100;P32243;Q01094;P10589;O15350;Q8WU20;Q9HBD4;Q33E94;Q04743}

31659 Pathogen[ P14075] interacts with 8 human partners:{Q9HBD4;Q33E94;P46100;O15350;Q01094;Q03112;Q15468;P32243}

31660 Pathogen[ POC206] interacts with 16 human partners:{Q15468;Q04743;P46100;P10589;Q03112;P32243;Q8WU20;Q01094;Q03052;Q8NHM5;Q33E94;Q13422;O15350;Q9HBD4;Q9NXR1;Q9H2A3}

31661 Pathogen[ POC3363] interacts with 17 human partners:{Q9UIW0;Q15468;Q03112;P32243;P46100;P56915;P32242;Q01094;Q9HBD4;Q33E94;Q96QS3;Q9NXR1;Q9Y6R0;P10589;Q03052;Q04743;Q9H2A3}

31662 [Cluster 2879]GO:0007159+P biological\_process [name] leukocyte cell-cell adhesion [def] "The attachment of a leukocyte to another cell via adhesion molecules." [GOC

31663 Pathogen[ Q2Q067] interacts with 1 human partners:{Q15025}

31664 Pathogen[ POC214] interacts with 1 human partners:{Q15025}

31665 Pathogen[ POC3346] interacts with 2 human partners:{P26038;Q15025}

31666 Pathogen[ Q85601] interacts with 1 human partners:{Q15025}

31667 Pathogen[ P14079] interacts with 2 human partners:{P26038;Q15025}

31668 Pathogen[ POC3383] interacts with 1 human partners:{Q15025}

31669 Pathogen[ POC3410] interacts with 2 human partners:{Q15025;P26038}

31670 Pathogen[ P14075] interacts with 1 human partners:{Q15025}

31671 Pathogen[ POC206] interacts with 1 human partners:{Q15025}

31672 Pathogen[ POC3363] interacts with 1 human partners:{Q15025}

31673 [Cluster 2880]GO:0019509+P biological\_process [name] L-methionine salvage from methylthioadenosine [def] "The generation of L-methionine (2-amino-4-(methylthio)butanoic acid) from methylthioadenosine." [GOC

31674 Pathogen[ Q2Q067] interacts with 6 human partners:{P49770;Q96GX9;Q9BV57;Q9UI10;Q14232;Q9BV20}

31675 Pathogen[ POC214] interacts with 8 human partners:{Q9UI10;P49770;Q9BV57;Q96GX9;Q14232;Q9UHY7;Q13126;Q9BV20}

31676 Pathogen[ POC3346] interacts with 7 human partners:{Q9BV20;Q9BV57;Q14232;P49770;Q9UHY7;Q96GX9;Q9UI10}

31677 Pathogen[ Q85601] interacts with 7 human

31678 partners:{P49770;Q96GX9;Q9BV57;Q9UHY7;Q9BV20;Q14232;Q9UI10}  
Pathogen[ P14079] interacts with 5 human

31679 partners:{Q9UI10;Q9BV20;Q96GX9;Q14232;Q9BV57}  
Pathogen[ P03383] interacts with 6 human

31680 partners:{Q9UI10;Q9BV57;Q96GX9;P49770;Q9BV20;Q14232}  
Pathogen[ P03410] interacts with 6 human

31681 partners:{Q14232;P49770;Q9BV20;Q96GX9;Q9BV57;Q9UI10}  
Pathogen[ P14075] interacts with 6 human

31682 partners:{Q96GX9;Q9BV57;Q9BV20;Q9UI10;Q14232;P49770}  
Pathogen[ P0C206] interacts with 7 human

31683 partners:{Q9BV20;Q14232;P49770;Q9UHY7;Q9UI10;Q9BV57;Q96GX9}  
Pathogen[ P03363] interacts with 5 human

31684 partners:{Q9UI10;Q9BV57;P49770;Q9BV20;Q96GX9}  
[Cluster 2881]GO:0019086+P biological\_process [name] late viral mRNA transcription  
[def] "The last group of viral genes to be transcribed during the viral life cycle\_ genes consist mainly of those encoding structural proteins." [ISBN

31685 Pathogen[ Q2Q067] interacts with 2 human partners:{P22415;Q15853}  
31686 Pathogen[ P0C214] interacts with 2 human partners:{Q15853;P22415}  
31687 Pathogen[ P03346] interacts with 2 human partners:{Q15853;P22415}  
31688 Pathogen[ Q85601] interacts with 2 human partners:{Q15853;P22415}  
31689 Pathogen[ P14079] interacts with 2 human partners:{Q15853;P22415}  
31690 Pathogen[ P03383] interacts with 2 human partners:{Q15853;P22415}  
31691 Pathogen[ P03410] interacts with 2 human partners:{P22415;Q15853}  
31692 Pathogen[ P14075] interacts with 2 human partners:{Q15853;P22415}  
31693 Pathogen[ P0C206] interacts with 2 human partners:{Q15853;P22415}  
31694 Pathogen[ P03363] interacts with 2 human partners:{Q15853;P22415}

31695 [Cluster 2882]GO:0048662+P biological\_process [name] negative regulation of smooth muscle cell proliferation [def] "Any process that stops, prevents or reduces the rate or extent of smooth muscle cell proliferation." [CL

31696 Pathogen[ Q2Q067] interacts with 5 human  
partners:{Q9NSA3;P29474;Q9UN36;P27986;Q15637}

31697 Pathogen[ P0C214] interacts with 5 human  
partners:{P29474;Q15637;Q9NSA3;P27986;Q9UN36}

31698 Pathogen[ P03346] interacts with 5 human  
partners:{P29474;Q15637;Q9NSA3;Q9UN36;P27986}

31699 Pathogen[ Q85601] interacts with 5 human  
partners:{Q15637;Q9UN36;P27986;P29474;Q9NSA3}

31700 Pathogen[ P14079] interacts with 3 human partners:{Q15637;P29459;Q9UN36}

31701 Pathogen[ P03383] interacts with 5 human  
partners:{P27986;P29474;Q9UN36;Q9NSA3;Q15637}

31702 Pathogen[ P03410] interacts with 6 human  
partners:{P27986;Q15637;Q9NSA3;P29474;Q9UN36;P29459}

31703 Pathogen[ P14075] interacts with 5 human  
partners:{P29474;Q9NSA3;Q15637;P27986;Q9UN36}

31704 Pathogen[ P0C206] interacts with 5 human  
partners:{Q9NSA3;Q15637;P27986;P29474;Q9UN36}

31705 Pathogen[ P03363] interacts with 5 human  
partners:{P29474;Q9UN36;Q9NSA3;Q15637;P27986}

31706 [Cluster 2883]GO:0030111+P biological\_process [name] regulation of Wnt receptor signaling pathway [def] "Any process that modulates the frequency, rate or extent of the activity of the Wnt receptor mediated signal transduction pathway." [GOC

31707 Pathogen[ Q2Q067] interacts with 8 human  
partners:{P30153;P35680;P67775;O14907;Q99750;P20823;Q9HC62;Q9P1T7}

31708 Pathogen[ P0C214] interacts with 6 human  
partners:{P30153;O14907;Q99750;P67775;Q9P1T7;Q9HC62}

31709 Pathogen[ P03346] interacts with 9 human  
partners:{P67775;P20823;P30153;Q9HCS4;Q99750;O14907;P35680;Q9HC62;Q9P1T7}

31710 Pathogen[ Q85601] interacts with 9 human  
partners:{Q9HC62;P30153;Q99750;O14907;P35680;P67775;Q9P1T7;Q9HCS4;P20823}

31711 Pathogen[ P14079] interacts with 7 human  
partners:{P35680;Q96Q45;O14907;Q9HC62;Q9P1T7;P30153;Q99750}

31712 Pathogen[ P03383] interacts with 6 human  
partners:{P30153;P67775;Q99750;Q9HC62;O14907;Q9P1T7}

31713 Pathogen[ P03410] interacts with 9 human  
partners:{Q96Q45;Q9HC62;Q9P1T7;O14907;P30153;Q9HCS4;P35680;P67775;Q99750}

31714 Pathogen[ P14075] interacts with 6 human  
partners:{Q9P1T7;Q9HC62;O14907;Q99750;P67775;P30153}

31715 Pathogen[ P0C206] interacts with 9 human  
partners:{P30153;Q9HC62;Q9HCS4;P67775;O14907;P35680;P20823;Q99750;Q9P1T7}

31716 Pathogen[ P03363] interacts with 7 human  
partners:{O14907;Q99750;Q9HCS4;Q9P1T7;Q9HC62;P30153;P67775}

31717 [Cluster 2884]GO:0007015+P biological\_process [name] actin filament organization [def] "A process that is carried out at the cellular level which results in the assembly, arrangement of constituent parts, or disassembly of cytoskeletal structures comprising actin filaments. Includes processes that control the spatial distribution of actin filaments, such as organizing filaments into meshworks, bundles, or other

structures, as by cross-linking." [GOC  
31718 Pathogen[ Q2Q067] interacts with 7 human  
partners:{O43639;P56945;P11831;P23528;Q12959;P16333;P02489}  
31719 Pathogen[ P0C214] interacts with 9 human  
partners:{Q9UI08;P56945;P02489;P11831;O43639;O14613;Q12959;P16333;Q5VZK9}  
31720 Pathogen[ P03346] interacts with 13 human  
partners:{P02549;O43639;P11831;P02489;Q9NQY0;O14613;Q9UI08;Q9Y664;P16333;P56945;P235  
28;Q5VZK9;Q12959}  
31721 Pathogen[ Q85601] interacts with 9 human  
partners:{P02489;P11831;P16333;O43639;P56945;Q5VZK9;O14613;Q12959;P23528}  
31722 Pathogen[ P14079] interacts with 8 human  
partners:{O14613;Q9Y664;P02489;P23528;P16333;O43639;P02549;Q9UI08}  
31723 Pathogen[ P03383] interacts with 4 human partners:{P56945;P11831;P23528;P16333}  
31724 Pathogen[ P03410] interacts with 13 human  
partners:{P11831;Q9UI08;Q12959;O43639;P16333;P02549;Q9NQY0;P02489;O14613;P56945;Q5VZ  
K9;P23528;Q9Y664}  
31725 Pathogen[ P14075] interacts with 5 human  
partners:{P11831;P23528;P16333;O14613;P56945}  
31726 Pathogen[ P0C206] interacts with 11 human  
partners:{O14613;Q9UI08;Q5VZK9;Q9NQY0;P16333;P11831;P56945;P02489;P23528;O43639;Q129  
59}  
31727 Pathogen[ P03363] interacts with 13 human  
partners:{Q12959;P02549;Q5VZK9;O43639;P11831;Q9UI08;P16333;O14613;P23528;P56945;Q9NQ  
Y0;P02489;Q9Y664}  
31728 [Cluster 2885]GO:0034454+P biological\_process [name] microtubule anchoring at  
centrosome [def] "Any process in which a microtubule is maintained in a specific  
location in a cell by attachment to a centrosome." [GOC  
31729 Pathogen[ Q2Q067] interacts with 3 human partners:{Q8N4C6;Q86VS8;Q15154}  
31730 Pathogen[ P0C214] interacts with 3 human partners:{Q15154;Q86VS8;Q8N4C6}  
31731 Pathogen[ P03346] interacts with 3 human partners:{Q86VS8;Q15154;Q8N4C6}  
31732 Pathogen[ Q85601] interacts with 3 human partners:{Q15154;Q86VS8;Q8N4C6}  
31733 Pathogen[ P14079] interacts with 3 human partners:{Q86VS8;Q8N4C6;Q15154}  
31734 Pathogen[ P03383] interacts with 3 human partners:{Q15154;Q86VS8;Q8N4C6}  
31735 Pathogen[ P03410] interacts with 3 human partners:{Q15154;Q86VS8;Q8N4C6}  
31736 Pathogen[ P14075] interacts with 3 human partners:{Q15154;Q86VS8;Q8N4C6}  
31737 Pathogen[ P0C206] interacts with 3 human partners:{Q86VS8;Q8N4C6;Q15154}  
31738 Pathogen[ P03363] interacts with 3 human partners:{Q86VS8;Q8N4C6;Q15154}  
31739 [Cluster 2886]GO:0006635+P biological\_process [name] fatty acid beta-oxidation  
[def] "A fatty acid oxidation process that results in the complete oxidation of a  
long-chain fatty acid. Fatty acid beta-oxidation begins with the addition of coenzyme A  
to a fatty acid, and occurs by successive cycles of reactions during each of which the  
fatty acid is shortened by a two-carbon fragment removed as acetyl coenzyme A\_ the cycle  
continues until only two or three carbons remain (as acetyl-CoA or propionyl-CoA  
respectively)." [GOC  
31740 Pathogen[ Q2Q067] interacts with 3 human partners:{P22033;P30084;Q16836}  
31741 Pathogen[ P0C214] interacts with 8 human  
partners:{P30084;P40939;P23786;Q13011;P22033;P42765;Q16698;Q96PE7}  
31742 Pathogen[ P03346] interacts with 6 human  
partners:{Q96PE7;Q16836;P23786;P42765;P50542;P30084}  
31743 Pathogen[ Q85601] interacts with 3 human partners:{P22033;Q16836;P30084}  
31744 Pathogen[ P14079] interacts with 5 human  
partners:{P30084;P50542;P22033;Q96PE7;Q16836}  
31745 Pathogen[ P03383] interacts with 2 human partners:{Q16836;P22033}  
31746 Pathogen[ P03410] interacts with 8 human  
partners:{P30084;Q96PE7;Q13011;P23786;P42765;Q16836;P50542;P22033}  
31747 Pathogen[ P14075] interacts with 2 human partners:{P22033;Q16836}  
31748 Pathogen[ P0C206] interacts with 6 human  
partners:{Q96PE7;Q16836;P50542;P23786;P30084;P22033}  
31749 Pathogen[ P03363] interacts with 1 human partners:{Q16836}  
31750 [Cluster 2887]GO:0002756+P biological\_process [name] MyD88-independent toll-like  
receptor signaling pathway [def] "Any series of molecular signals generated as a  
consequence of binding to a toll-like receptor not relying on the MyD88 adaptor  
molecule. Toll-like receptors directly bind pattern motifs from a variety of microbial  
sources to initiate innate immune response." [GOC  
31751 Pathogen[ Q2Q067] interacts with 27 human  
partners:{P01100;Q8IUC6;Q92985;Q15653;Q04206;Q9NYJ8;Q8N5C8;O75582;Q14653;Q9Y6K9;P194  
19;P19838;P15336;P25963;P0CG47;O14920;P45984;Q00653;P0CG48;O43318;P62987;O15111;Q157  
59;Q16829;Q02078;Q15750;P62979}  
31752 Pathogen[ P0C214] interacts with 31 human  
partners:{Q00653;O15111;Q9Y6K9;P19838;P15336;Q8IUC6;Q14164;P01100;P19419;Q04206;Q156  
53;O43318;Q02078;Q8N5C8;Q92985;P0CG48;P25963;Q16829;Q14653;O75582;P62987;Q15750;P054  
12;Q15759;P0CG47;P45984;P16220;P62979;O14920;Q9NYJ8;P18846}  
31753 Pathogen[ P03346] interacts with 32 human  
partners:{Q9Y6K9;P05412;P45984;Q02078;O15111;P16220;P15336;P62987;P25963;Q15653;P194  
19;P0CG48;Q04206;Q8N5C8;Q9NYJ8;O75582;Q15750;Q14653;Q16829;P62979;Q8IUC6;Q15759;P0CG  
47;P45985;P19838;O14920;O43318;Q92985;P01100;Q14164;P18846;Q00653}

31754 Pathogen[ Q85601] interacts with 31 human  
partners: {Q02078;Q15750;Q9NYJ8;Q8IUC6;O15111;P19419;Q16829;P18846;P0CG48;Q15653;Q8N5C8;P01100;Q14653;Q14164;Q9Y6K9;P16220;O14920;Q04206;P05412;Q92985;O75582;P62979;Q15759;P0CG47;P45984;P62987;Q00653;P15336;O43318;P19838;P25963}

31755 Pathogen[ P14079] interacts with 31 human  
partners: {Q96KP6;Q8N5C8;Q02078;P0CG48;Q06413;O43187;P53779;Q14653;P52564;O75582;Q16829;Q8IUC6;Q92985;Q14164;Q15750;P62979;P62987;P45984;P45983;Q16644;Q15759;Q9Y6K9;P45985;P15336;Q13164;P05412;P0CG47;Q9Y239;P01100;P19419;Q15653}

31756 Pathogen[ P03383] interacts with 29 human  
partners: {O75582;Q14653;P16220;Q9Y6K9;P62987;Q8IUC6;Q00653;O14920;O15111;P19419;P18846;Q15653;O43318;Q8N5C8;Q92985;Q15759;P25963;P01100;P62979;P0CG47;Q04206;P45984;P0CG48;P15336;Q9NYJ8;P19838;Q02078;Q15750;P05412}

31757 Pathogen[ P03410] interacts with 34 human  
partners: {Q04206;P19838;P0CG48;O14920;Q9Y239;P19419;O15111;Q15750;O75582;Q14653;O43187;Q15653;P62979;P01100;P18846;O43318;Q16829;P45985;Q9NYJ8;Q96KP6;Q8N5C8;P16220;P05412;P45984;P62987;P53779;Q02078;Q8IUC6;Q00653;Q9Y6K9;P25963;Q92985;P15336;P0CG47}

31758 Pathogen[ P14075] interacts with 29 human  
partners: {O15111;Q04206;Q15750;P05412;Q15759;O75582;P19419;P15336;Q15653;P25963;Q8N5C8;O14920;P0CG48;P62979;Q14653;O43318;P62987;Q02078;Q8IUC6;P01100;P0CG47;P19838;Q00653;P16220;Q9Y6K9;Q92985;P18846;P45984;Q9NYJ8}

31759 Pathogen[ P0C206] interacts with 32 human  
partners: {P0CG48;O14920;Q9Y6K9;Q02078;P16220;Q8N5C8;O75582;P45984;P05412;P25963;P19419;O43318;P15336;Q15653;P18846;Q16829;P19838;Q14164;Q92985;P01100;Q04206;O15111;P62979;Q9NYJ8;P45985;P0CG47;Q8IUC6;Q00653;Q15750;P62987;Q15759;Q14653}

31760 Pathogen[ P03363] interacts with 23 human  
partners: {Q14653;Q92985;O14920;Q04206;P25963;O15111;Q9NYJ8;P16220;Q9Y6K9;P19419;O43318;Q15750;P15336;Q15653;Q16829;Q00653;P18846;P62987;P19838;P05412;Q8N5C8;P01100;Q02078}

31761 [Cluster 2888]GO:0008089+P biological\_process [name] anterograde axon cargo transport [def] "The directed movement of organelles or molecules along microtubules from the cell body toward the cell periphery in nerve cell axons." [ISBN

31762 Pathogen[ Q2Q067] interacts with 13 human  
partners: {Q9UL45;P07196;Q92572;O95295;Q9NUP1;Q6QNY0;Q96EV8;Q8TDH9;P53677;Q9Y2T2;Q6QNY1;P78537;Q13367}

31763 Pathogen[ P0C214] interacts with 15 human  
partners: {P59780;O95295;Q9Y2T2;Q13367;P78537;Q8TDH9;Q6QNY0;Q92572;Q8TDB4;P53677;Q9UL45;Q96EV8;Q9NUP1;Q6QNY1;P07196}

31764 Pathogen[ P03346] interacts with 16 human  
partners: {P07196;O95295;Q92572;P59780;Q8TDB4;Q6QNY0;P78537;Q96EV8;Q6QNY1;Q9UL45;Q13367;O14617;Q8TDH9;Q9NUP1;P53677;Q9Y2T2}

31765 Pathogen[ Q85601] interacts with 14 human  
partners: {Q13367;Q6QNY0;Q9Y2T2;Q9NUP1;P07196;O95295;Q8TDB4;P78537;Q96EV8;P53677;Q92572;P59780;Q6QNY1;Q8TDH9}

31766 Pathogen[ P14079] interacts with 17 human  
partners: {Q6QNY0;Q9Y2T2;P59780;P07196;Q92572;O15066;Q9UL45;Q8TDH9;P53677;O95295;Q8TDB4;Q13367;Q96EV8;Q9NUP1;O14617;Q6QNY1;P78537}

31767 Pathogen[ P03383] interacts with 13 human  
partners: {Q6QNY0;Q92572;Q8TDB4;O95295;Q8TDH9;P78537;Q9NUP1;P53677;Q96EV8;Q9Y2T2;P07196;Q13367;Q6QNY1}

31768 Pathogen[ P03410] interacts with 18 human  
partners: {Q9NUP1;O00203;P78537;Q6QNY1;Q6QNY0;Q92572;O14617;P07196;Q9UL45;O95295;O60333;Q9Y2T2;P53677;P59780;Q8TDB4;Q13367;Q8TDH9;Q96EV8}

31769 Pathogen[ P14075] interacts with 12 human  
partners: {P78537;O95295;Q9Y2T2;Q6QNY1;Q6QNY0;Q9NUP1;Q92572;Q8TDB4;Q8TDH9;Q96EV8;P07196;Q13367}

31770 Pathogen[ P0C206] interacts with 16 human  
partners: {P07196;P78537;Q9UL45;Q92572;Q6QNY1;Q9Y2T2;Q8TDH9;P59780;P53677;Q96EV8;O95295;O14617;Q9NUP1;Q6QNY0;Q13367;Q8TDB4}

31771 Pathogen[ P03363] interacts with 13 human  
partners: {Q9Y2T2;Q13367;P53677;P78537;Q92572;P07196;Q6QNY1;O15066;O95295;O60333;Q8TDH9;Q6QNY0;Q9NUP1}

31772 [Cluster 2889]GO:0035552+P biological\_process [name] oxidative single-stranded DNA demethylation [def] "Removal of the methyl group from one or more nucleotides within a single-stranded DNA molecule involving the oxidation (i.e. electron loss) of one or more atoms." [GOC

31773 Pathogen[ Q2Q067] interacts with 1 human partners: {Q96Q83}

31774 Pathogen[ P0C214] interacts with 1 human partners: {Q96Q83}

31775 Pathogen[ P03346] interacts with 1 human partners: {Q96Q83}

31776 Pathogen[ Q85601] interacts with 1 human partners: {Q96Q83}

31777 Pathogen[ P14079] interacts with 2 human partners: {Q9C0B1;Q96Q83}

31778 Pathogen[ P03383] interacts with 1 human partners: {Q96Q83}

31779 Pathogen[ P03410] interacts with 2 human partners: {Q96Q83;Q9C0B1}

31780 Pathogen[ P14075] interacts with 1 human partners: {Q96Q83}

31781 Pathogen[ P0C206] interacts with 1 human partners: {Q96Q83}

31782 Pathogen[ P03363] interacts with 1 human partners: {Q96Q83}

31783 [Cluster 2890]GO:000132+P biological\_process [name] establishment of mitotic spindle

orientation [def] "A cell cycle process that sets the alignment of mitotic spindle relative to other cellular structures." [GOC

31784 Pathogen[ Q2Q067] interacts with 10 human  
partners:{Q99502;P63172;Q14980;P49450;Q9NXR1;Q96SN8;O43264;P81274;O14777;Q96EA4}

31785 Pathogen[ P0C214] interacts with 10 human  
partners:{O43264;P81274;Q96EA4;Q96SN8;P49450;Q14980;P63172;Q9NXR1;O14777;Q99502}

31786 Pathogen[ P03346] interacts with 10 human  
partners:{O43264;Q9NXR1;Q99502;Q14980;O14777;Q96EA4;P81274;Q96SN8;P63172;P49450}

31787 Pathogen[ Q85601] interacts with 10 human  
partners:{P81274;Q96SN8;O43264;Q96EA4;P63172;Q99502;P49450;Q14980;Q9NXR1;O14777}

31788 Pathogen[ P14079] interacts with 10 human  
partners:{Q14980;Q99502;P63172;Q96EA4;P49450;O43264;P81274;Q9NXR1;Q96SN8;O14777}

31789 Pathogen[ P03383] interacts with 7 human  
partners:{O43264;P63172;Q96SN8;Q96EA4;P81274;Q14980;O14777}

31790 Pathogen[ P03410] interacts with 10 human  
partners:{Q9NXR1;Q99502;Q96SN8;P63172;O43264;Q96EA4;Q14980;P81274;P49450;O14777}

31791 Pathogen[ P14075] interacts with 8 human  
partners:{P81274;Q96SN8;P63172;O14777;Q96EA4;Q99502;O43264;Q14980}

31792 Pathogen[ P0C206] interacts with 10 human  
partners:{Q96SN8;P81274;O14777;P49450;Q99502;Q9NXR1;Q96EA4;Q14980;P63172;O43264}

31793 Pathogen[ P03363] interacts with 9 human  
partners:{Q96EA4;Q14980;O43264;P81274;P63172;P49450;O14777;Q9NXR1;Q96SN8}

31794 [Cluster 2891]GO:0016197+P biological\_process [name] endosome transport [def] "The directed movement of substances into, out of or mediated by an endosome, a membrane-bounded organelle that carries materials newly ingested by endocytosis. It passes many of the materials to lysosomes for degradation." [ISBN

31795 Pathogen[ Q2Q067] interacts with 34 human  
partners:{Q92783;O75351;Q9H444;Q2VPB7;O60784;Q9C005;Q99816;Q9BRG1;O75886;A5D8V6;Q9UQ  
N3;Q9UN37;Q96H20;Q9H0R1;Q9NZZ3;Q9UK41;Q9Y3E7;O43299;Q9H9H4;Q96CF2;P42768;P0CG47;Q9NP  
79;P0CG48;O43633;O14964;Q9NUS5;Q8WUX9;P62987;Q86VN1;Q13501;Q8NEZ2;O75901;P62979}

31796 Pathogen[ P0C214] interacts with 35 human  
partners:{Q8WUX9;Q96CF2;O75351;Q9NP79;Q9H444;Q9NUS5;O14964;O75886;Q9UQN3;Q9UK41;Q9H0  
R1;Q2VPB7;Q13501;Q9BY43;O43299;Q9BRG1;P0CG48;O75901;Q9C005;Q8NEZ2;Q9Y3E7;O60784;P629  
87;Q99816;P0CG47;Q9NZZ3;Q96H20;A5D8V6;Q9UN37;Q92783;O43633;Q9H9H4;P62979;P42768;Q86V  
N1}

31797 Pathogen[ P03346] interacts with 42 human  
partners:{Q13596;Q86XT2;Q9C005;Q15036;A5D8V6;Q2VPB7;O75901;P42768;P62987;P0CG48;O758  
86;Q8NEZ2;Q9H0R1;Q99816;Q86VN1;Q9UK41;O60784;A8K0Z3;Q96H20;Q96FZ7;Q96CF2;Q9NZZ3;Q7Z3  
T8;Q9Y3E7;O43633;Q9H444;Q9H9H4;Q9NUS5;Q9BRG1;Q9UQN3;P62979;Q13492;P0CG47;Q9BY43;Q927  
83;Q9NP79;O75351;O14964;O43299;Q9UN37;Q8WUX9;Q13501}

31798 Pathogen[ Q85601] interacts with 38 human  
partners:{Q13596;Q99816;Q9NP79;Q9UQN3;Q96H20;Q15036;Q9NUS5;Q9BRG1;Q9H9H4;Q86VN1;O432  
99;O43633;P0CG48;O75886;Q96FZ7;Q8WUX9;Q96CF2;O75351;Q9UK41;Q9BY43;Q9H444;Q9C005;P427  
68;Q92783;Q9NZZ3;O14964;P62979;O75901;Q2VPB7;P0CG47;P62987;Q8NEZ2;Q9UN37;Q9Y3E7;Q9H0  
R1;O60784;Q13501;A5D8V6}

31799 Pathogen[ P14079] interacts with 44 human  
partners:{Q9H9H4;O75886;Q13492;Q86VN1;Q96CF2;Q15036;P0CG48;Q9C005;Q96H20;Q2VPB7;Q86X  
T2;Q9H1K0;Q9BY43;Q9NP79;Q6VEQ5;Q92783;Q2M389;P62979;O60784;P62987;Q9NQA3;O43633;Q8WU  
X9;A5D8V6;Q8NEZ2;Q13596;Q13501;Q9UN37;Q96FZ7;Q7Z3T8;Q9H0R1;A8K0Z3;O43299;Q9Y3E7;O753  
51;Q9NUS5;Q9NZZ3;Q9H444;Q9BRG1;Q99816;P0CG47;O75901;Q9UQN3;P42768}

31800 Pathogen[ P03383] interacts with 29 human  
partners:{P62987;Q8WUX9;Q96H20;Q9Y3E7;Q9NZZ3;O75886;Q8NEZ2;Q99816;Q9NUS5;O75901;Q9UK  
41;O43633;Q9H444;Q9C005;Q9H9H4;P42768;Q9BRG1;O43299;Q13501;O60784;Q92783;P62979;P0CG  
47;P0CG48;O14964;Q86VN1;Q9UN37;Q9UQN3;Q2VPB7}

31801 Pathogen[ P03410] interacts with 44 human  
partners:{P0CG48;O43633;Q86XT2;Q9H9H4;Q13596;Q9NP79;Q9NUS5;O75351;Q2M389;Q13501;Q927  
83;Q9BY43;O43299;P42768;Q86VN1;P62979;Q9C005;A5D8V6;Q99816;Q9Y3E7;Q13492;Q8WUX9;Q8NE  
Z2;Q9UQN3;Q9UN37;Q15036;Q9H444;O60784;Q9NZZ3;Q9H1K0;Q9BRG1;Q6VEQ5;Q96FZ7;Q9H0R1;P629  
87;O75901;Q2VPB7;Q96H20;Q96CF2;Q9NQA3;P0CG47;Q7Z3T8;O75886;A8K0Z3}

31802 Pathogen[ P14075] interacts with 29 human  
partners:{O75886;Q9H444;Q8WUX9;P42768;Q92783;Q9NP79;Q86VN1;Q9UK41;O75901;Q8NEZ2;Q96H  
20;Q9Y3E7;Q9H9H4;P0CG48;P62979;O14964;Q9C005;Q9UQN3;Q9NZZ3;P62987;P0CG47;Q9BRG1;Q2VP  
B7;Q99816;Q9NUS5;Q13501;O60784;Q9UN37;O43299}

31803 Pathogen[ P0C206] interacts with 43 human  
partners:{O14964;Q9BRG1;Q13501;P0CG48;Q9C005;Q8WUX9;Q9UN37;Q8NEZ2;Q9H444;O60784;Q9Y3  
E7;Q2VPB7;Q9H0R1;Q9H1K0;Q9UQN3;Q86VN1;Q2M389;Q13596;Q99816;Q92783;Q15036;O43299;Q9UK  
41;Q9H9H4;Q7Z3T8;Q6VEQ5;A5D8V6;Q96H20;Q86XT2;P62979;O43633;Q96CF2;P0CG47;Q9BY43;Q9NP  
79;Q9NZZ3;Q96FZ7;P62987;O75886;P42768;O75351;O75901;Q9NUS5}

31804 Pathogen[ P03363] interacts with 30 human  
partners:{O75886;Q9H444;Q92783;O60784;P42768;Q9NUS5;Q9NZZ3;Q96H20;Q9C005;O75351;Q9UN  
37;Q9H0R1;Q86VN1;Q9BRG1;O75901;Q9UK41;Q9Y3E7;P62987;O14964;Q8NEZ2;Q2VPB7;Q99816;Q135  
96;Q9UQN3;Q9NP79;Q9H9H4;Q8WUX9;O43299;Q96CF2;A5D8V6}

31805 [Cluster 2892]GO:0035522+P biological\_process [name] monoubiquitinated histone H2A  
deubiquitination [def] "The removal of the ubiquitin group from a monoubiquitinated  
histone H2A protein." [GOC

31806 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8IXJ9}

31807 Pathogen[ P0C214] interacts with 2 human partners:{Q92560;Q8IXJ9}

31808 Pathogen[ P03346] interacts with 2 human partners:{Q92560;Q8IXJ9}

31809 Pathogen[ Q85601] interacts with 2 human partners:{Q92560;Q8IXJ9}

31810 Pathogen[ P14079] interacts with 2 human partners:{Q8IXJ9;Q92560}

31811 Pathogen[ P03383] interacts with 1 human partners:{Q8IXJ9}

31812 Pathogen[ P03410] interacts with 1 human partners:{Q8IXJ9}

31813 Pathogen[ P14075] interacts with 1 human partners:{Q8IXJ9}

31814 Pathogen[ P0C206] interacts with 2 human partners:{Q8IXJ9;Q92560}

31815 Pathogen[ P03363] interacts with 2 human partners:{Q8IXJ9;Q92560}

31816 [Cluster 2893]GO:0019886+P biological\_process [name] antigen processing and presentation of exogenous peptide antigen via MHC class II [def] "The process in which an antigen-presenting cell expresses a peptide antigen of exogenous origin on its cell surface in association with an MHC class II protein complex. The peptide antigen is typically, but not always, processed from a whole protein." [GOC

31817 Pathogen[ Q2Q067] interacts with 37 human partners:{O94973;Q9Y6Q5;Q10567;P56377;O43747;O95782;P55735;Q14204;Q9UJW0;O75935;P63167;P63010;Q96PC3;Q14203;Q96CW1;Q13561;Q00610;P61966;P53992;O95486;O94855;P42025;Q9BXS5;Q9H0B6;P50570;Q02241;O00139;Q07866;Q99962;Q13409;O95487;Q96FJ2;Q92845;Q96NA2;P09496;Q15436;O14576}

31818 Pathogen[ P0C214] interacts with 39 human partners:{Q96CW1;Q07866;P55735;O75935;P53992;Q9UJW0;Q02241;Q14203;Q96NA2;Q14204;O00139;Q99962;Q15436;Q9BTE1;Q9H0B6;P63010;Q10567;O95487;P56377;Q96PC3;Q92845;O43747;P42025;O94973;Q9Y6Q5;O14576;Q96FJ2;O00399;P61966;P09496;P50570;O95782;Q13409;P53680;Q13561;Q9BXS5;O95486;P63167;O94855}

31819 Pathogen[ P03346] interacts with 42 human partners:{P61966;P55735;Q96FJ2;P50570;Q9UJW0;O14576;Q12840;P63010;O43747;P53680;O75935;O00139;P56377;Q99962;Q9BXS5;Q96NA2;O95782;Q14204;Q14203;Q9BTE1;P09496;O94855;Q9BXS5;Q10567;Q15436;Q96CW1;Q96PC3;P42025;O00399;O95486;Q02241;Q13409;P63167;O95487;Q92845;Q9Y6Q5;O94973;Q00610;P53992;Q9H0B6;Q07866;Q13561}

31820 Pathogen[ Q85601] interacts with 41 human partners:{P61163;Q13409;Q9UJW0;Q00610;P09496;Q02241;Q96CW1;O95487;O75935;Q9BXS5;P56377;Q99962;Q14204;O43747;Q14203;Q10567;Q9BTE1;Q15436;Q12840;P50570;P55735;O14576;O00399;P53680;O95486;O94973;Q96PC3;Q92845;P63010;P61966;Q96NA2;Q9Y6Q5;O94855;P42025;P63167;Q07866;O00139;Q9H0B6;P53992;Q13561;O95782}

31821 Pathogen[ P14079] interacts with 44 human partners:{Q9BXS5;Q96CW1;Q96NA2;Q9Y6Q5;P61966;Q9BXS5;Q00610;O95487;Q07866;Q96FJ2;Q12840;Q10567;Q02241;Q14204;P56377;O94855;P53992;O00399;Q9UJW0;P50570;O15066;Q9BTE1;Q99661;O95782;O00139;Q13409;Q13561;P63010;O94973;P61163;O43747;P63167;P55735;P42025;O14576;O95486;Q92845;Q96PC3;Q9H0B6;O75935;P53680;Q14203;P09496;Q99962}

31822 Pathogen[ P03383] interacts with 27 human partners:{Q96CW1;P56377;Q9UJW0;Q00610;Q02241;P55735;O95487;Q96FJ2;P42025;Q14203;Q10567;Q9H0B6;O95486;Q15436;P63010;O43747;O94855;O95782;O75935;Q07866;P53992;Q92845;Q13561;Q9BXS5;O94973;P63167;Q96NA2}

31823 Pathogen[ P03410] interacts with 44 human partners:{Q00610;P09496;Q9Y6Q5;Q14204;O95782;Q96PC3;Q96CW1;Q07866;Q13409;Q9BXS5;P53680;Q13561;Q9H0B6;O00139;O94855;P53992;O43747;Q10567;Q92845;O00399;P63167;P50570;Q9UJW0;Q8TCX1;Q12840;P61163;Q15436;O14576;Q9BTE1;O95486;O75935;P63010;P42025;Q99962;P55735;Q96NA2;P61966;O94973;P56377;O43237;Q9BXS5;Q14203;O95487;Q02241}

31824 Pathogen[ P14075] interacts with 29 human partners:{P09496;Q02241;O94973;Q96CW1;Q92845;Q13561;Q96NA2;P53992;P55735;O95487;O00139;Q96FJ2;O75935;O95782;O43747;Q15436;P63010;P56377;O94855;Q9BXS5;Q14203;Q07866;Q9H0B6;Q9UJW0;O95486;Q10567;P63167;P42025;Q00610}

31825 Pathogen[ P0C206] interacts with 43 human partners:{P53680;P63010;O94973;O14576;Q9Y6Q5;Q92845;Q9BTE1;O43747;O94855;Q10567;P63167;P61966;Q00610;P55735;Q99962;O43237;Q02241;Q13409;P09496;P61163;Q14204;Q9H0B6;Q9BXS5;Q9UJW0;O95486;O95487;Q96CW1;O00399;Q12840;O00139;O95782;Q13561;Q9BXS5;Q96NA2;P53992;Q14203;O75935;Q96PC3;P42025;P50570;P56377;Q07866;Q15436}

31826 Pathogen[ P03363] interacts with 41 human partners:{Q92845;Q99962;P63167;Q2VIQ3;O43747;Q13561;Q9UJW0;O00399;P50570;Q14204;Q02241;Q15436;Q00610;O95486;Q9BXS5;Q07866;Q14807;O94973;P61163;Q9H0B6;Q9BXS5;P63010;O75935;P42025;Q13409;O15066;O95782;Q9BTE1;Q96NA2;P53992;O95487;O00139;O43237;Q96FJ2;P55735;Q14203;O94855;O14576;Q10567;Q12840;Q96CW1}

31827 [Cluster 2894]GO:0060743+P biological\_process [name] epithelial cell maturation involved in prostate gland development [def] "The developmental process, independent of morphogenetic (shape) change, that is required for an epithelial cell of the prostate gland to attain its fully functional state. An epithelial cell is a cell usually found in a two-dimensional sheet with a free surface." [GOC

31828 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UK73}

31829 Pathogen[ P0C214] interacts with 1 human partners:{Q9UK73}

31830 Pathogen[ P03346] interacts with 2 human partners:{Q92826;Q9UK73}

31831 Pathogen[ Q85601] interacts with 1 human partners:{Q9UK73}

31832 Pathogen[ P14079] interacts with 1 human partners:{Q9UK73}

31833 Pathogen[ P03383] interacts with 1 human partners:{Q9UK73}

31834 Pathogen[ P03410] interacts with 1 human partners:{Q9UK73}

31835 Pathogen[ P14075] interacts with 1 human partners:{Q9UK73}

31836 Pathogen[ P0C206] interacts with 1 human partners:{Q9UK73}

31837 Pathogen[ P03363] interacts with 2 human partners:{Q92826;Q9UK73}

31838 [Cluster 2895]GO:0002260+P biological\_process [name] lymphocyte homeostasis [def] "The process of regulating the proliferation and elimination of lymphocytes such that the total number of lymphocytes within a whole or part of an organism is stable over time in the absence of an outside stimulus." [GOC

31839 Pathogen[ Q2Q067] interacts with 1 human partners:{P12757}

31840 Pathogen[ P0C214] interacts with 1 human partners:{P12757}

31841 Pathogen[ P03346] interacts with 2 human partners:{P02549;P12757}

31842 Pathogen[ Q85601] interacts with 1 human partners:{P12757}

31843 Pathogen[ P14079] interacts with 2 human partners:{P12757;P02549}

31844 Pathogen[ P03383] interacts with 1 human partners:{P12757}

31845 Pathogen[ P03410] interacts with 2 human partners:{P02549;P12757}

31846 Pathogen[ P14075] interacts with 1 human partners:{P12757}

31847 Pathogen[ P0C206] interacts with 1 human partners:{P12757}

31848 Pathogen[ P03363] interacts with 2 human partners:{P02549;P12757}

31849 [Cluster 2896]GO:2000984+P biological\_process [name] negative regulation of ATP citrate synthase activity [def] "Any process that stops, prevents or reduces the frequency, rate or extent of ATP citrate synthase activity." [GOC

31850 Pathogen[ Q2Q067] interacts with 2 human partners:{O75323;Q8WYQ3}

31851 Pathogen[ P0C214] interacts with 2 human partners:{Q8WYQ3;O75323}

31852 Pathogen[ P03346] interacts with 3 human partners:{Q9NRX4;Q8WYQ3;O75323}

31853 Pathogen[ Q85601] interacts with 1 human partners:{O75323}

31854 Pathogen[ P14079] interacts with 3 human partners:{Q9NRX4;Q8WYQ3;O75323}

31855 Pathogen[ P03383] interacts with 2 human partners:{O75323;Q8WYQ3}

31856 Pathogen[ P03410] interacts with 3 human partners:{Q8WYQ3;Q9NRX4;O75323}

31857 Pathogen[ P14075] interacts with 2 human partners:{O75323;Q8WYQ3}

31858 Pathogen[ P0C206] interacts with 3 human partners:{Q9NRX4;Q8WYQ3;O75323}

31859 Pathogen[ P03363] interacts with 1 human partners:{O75323}

31860 [Cluster 2897]GO:0033119+P biological\_process [name] negative regulation of RNA splicing [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of RNA splicing." [GOC

31861 Pathogen[ Q2Q067] interacts with 2 human partners:{P62277;P62854}

31862 Pathogen[ P0C214] interacts with 3 human partners:{P62854;P26599;P62277}

31863 Pathogen[ P03346] interacts with 3 human partners:{P62277;P26599;P62854}

31864 Pathogen[ Q85601] interacts with 2 human partners:{P62854;P62277}

31865 Pathogen[ P14079] interacts with 4 human partners:{P31751;P62854;P26599;P62277}

31866 Pathogen[ P03383] interacts with 2 human partners:{P62854;P62277}

31867 Pathogen[ P03410] interacts with 3 human partners:{P26599;P62277;P62854}

31868 Pathogen[ P14075] interacts with 2 human partners:{P62277;P62854}

31869 Pathogen[ P0C206] interacts with 2 human partners:{P62854;P62277}

31870 Pathogen[ P03363] interacts with 3 human partners:{P26599;P62277;P62854}

31871 [Cluster 2898]GO:0043649+P biological\_process [name] dicarboxylic acid catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of dicarboxylic acids, any organic acid containing two carboxyl (-COOH) groups." [ISBN

31872 Pathogen[ Q2Q067] interacts with 1 human partners:{O14734}

31873 Pathogen[ P0C214] interacts with 1 human partners:{O14734}

31874 Pathogen[ P03346] interacts with 1 human partners:{O14734}

31875 Pathogen[ Q85601] interacts with 1 human partners:{O14734}

31876 Pathogen[ P14079] interacts with 1 human partners:{O14734}

31877 Pathogen[ P03383] interacts with 1 human partners:{O14734}

31878 Pathogen[ P03410] interacts with 1 human partners:{O14734}

31879 Pathogen[ P14075] interacts with 1 human partners:{O14734}

31880 Pathogen[ P0C206] interacts with 1 human partners:{O14734}

31881 Pathogen[ P03363] interacts with 1 human partners:{O14734}

31882 [Cluster 2899]GO:0032607+P biological\_process [name] interferon-alpha production [def] "The appearance of interferon-alpha due to biosynthesis or secretion following a cellular stimulus, resulting in an increase in its intracellular or extracellular levels." [GOC

31883 Pathogen[ Q2Q067] interacts with 1 human partners:{Q92985}

31884 Pathogen[ P0C214] interacts with 1 human partners:{Q92985}

31885 Pathogen[ P03346] interacts with 1 human partners:{Q92985}

31886 Pathogen[ Q85601] interacts with 1 human partners:{Q92985}

31887 Pathogen[ P14079] interacts with 1 human partners:{Q92985}

31888 Pathogen[ P03383] interacts with 1 human partners:{Q92985}

31889 Pathogen[ P03410] interacts with 1 human partners:{Q92985}

31890 Pathogen[ P14075] interacts with 1 human partners:{Q92985}

31891 Pathogen[ P0C206] interacts with 1 human partners:{Q92985}

31892 Pathogen[ P03363] interacts with 1 human partners:{Q92985}

31893 [Cluster 2900]GO:0044089+P biological\_process [name] positive regulation of cellular component biogenesis [def] "Any process that activates or increases the frequency, rate or extent of cellular component biogenesis, a process that results in the biosynthesis of constituent macromolecules, assembly, and arrangement of constituent parts of a cellular component." [GOC

31894 Pathogen[ Q2Q067] interacts with 1 human partners:{O43679}

31895 Pathogen[ P0C214] interacts with 1 human partners:{O43679}

31896 Pathogen[ P03346] interacts with 1 human partners:{O43679}

31897 Pathogen[ Q85601] interacts with 1 human partners:{043679}  
31898 Pathogen[ P14079] interacts with 1 human partners:{043679}  
31899 Pathogen[ P03383] interacts with 1 human partners:{043679}  
31900 Pathogen[ P03410] interacts with 1 human partners:{043679}  
31901 Pathogen[ P14075] interacts with 1 human partners:{043679}  
31902 Pathogen[ P0C206] interacts with 1 human partners:{043679}  
31903 Pathogen[ P03363] interacts with 1 human partners:{043679}  
31904 [Cluster 2901]GO:0016055+P biological\_process [name] Wnt receptor signaling pathway  
[def] "The series of molecular signals initiated by binding of a Wnt protein to a  
frizzled family receptor on the surface of the target cell and ending with a change in  
cell state." [GOC  
31905 Pathogen[ Q2Q067] interacts with 54 human  
partners:{Q14526;O75474;Q9P219;Q04726;P24385;Q8WVC0;Q8IY63;O00512;Q9H2K2;P36402;Q6PD  
62;Q6P1J9;Q9GZS3;Q8N7J2;Q9NPI1;Q04727;Q9Y3Y4;Q5JTC6;Q16531;Q92837;Q14907;Q9NZC7;Q9Y2  
97;Q9NYF0;P67870;O14641;P25063;Q92541;P24864;Q9NSA3;Q9NTX7;Q9Y2J4;Q53G59;O75030;Q136  
18;O00321;Q04725;Q9UN36;Q9NRI5;O95996;P35813;Q9HC62;O95271;Q04724;Q9HCK8;Q8N7H5;Q9P1  
Z2;Q86U70;Q8ND76;Q9Y608;P23508;Q9BRK4;Q8N2W9;O60716}  
31906 Pathogen[ P0C214] interacts with 58 human  
partners:{Q14526;Q8ND76;P35813;Q04727;O00321;Q9NRI5;Q9Y2J4;Q9BRK4;O60716;Q8N2W9;O949  
21;Q9NTX7;Q14907;Q13618;O75030;P24385;Q04724;Q9Y297;Q92541;Q9NZC7;Q9NSA3;Q14696;P981  
70;Q04726;Q53G59;Q86U70;O14641;Q6P1J9;Q9HCK8;Q8N7H5;O60381;Q9Y608;P25063;Q9H2K2;O005  
12;Q8WVC0;P36402;O75474;Q9NPI1;P24864;Q04725;Q8N7J2;Q9HC62;Q8IY63;P23508;Q9P1Z2;P678  
70;Q9P219;Q9Y3Y4;O95271;Q6PD62;Q9NYF0;Q9UN36;Q5JTC6;Q16531;Q92837;Q9GZS3;Q8N944}  
31907 Pathogen[ P03346] interacts with 65 human  
partners:{Q9NRI5;Q6PD62;Q8ND76;P35813;Q86U70;Q9Y283;P24385;Q9H2H0;P36402;O60716;P235  
08;Q8N7J2;Q9Y3Y4;Q16531;O75474;Q13618;Q9NPI1;O43815;Q9NTX7;P24864;P98170;O00321;O750  
30;Q969G9;Q9P219;Q9BRK4;Q14526;Q8IY63;Q9Y608;Q9NSA3;Q9H2K2;Q04726;Q9HCS4;O14641;O603  
81;Q8WVC0;O00512;Q04725;Q9NZC7;Q9P1Z2;Q04724;Q9HCK8;Q92837;Q14907;Q9UGU5;Q92541;Q9Y2  
J4;O95996;Q8N2W9;Q9GZS3;Q9NYF0;Q9HC62;Q969F2;Q04727;O95271;P25063;P67870;O94921;Q86T  
24;Q9UN36;Q9Y297;Q9UIW0;Q6P1J9;Q8N7H5;Q5JTC6}  
31908 Pathogen[ Q85601] interacts with 59 human  
partners:{Q6PD62;Q9NZC7;Q9Y608;Q92837;P24385;Q8WVC0;Q04724;Q9UN36;Q86U70;P23508;Q8IY  
63;Q16531;Q6P1J9;Q9Y283;O75030;Q9HC62;Q8ND76;Q9NYF0;O43815;P98170;Q8N2W9;O75474;Q9GZ  
S3;Q9P219;Q14526;O60716;Q04725;Q9H2K2;Q92541;Q04726;O14641;Q9NQC7;Q04727;Q9BRK4;O149  
07;O94921;Q9NTX7;Q9Y2J4;O00512;P36402;Q5JTC6;O95996;Q9NPI1;Q9HCK8;Q9NRI5;P67870;Q136  
18;Q53G59;Q9P1Z2;Q9HCS4;O95271;Q8N7J2;P35813;Q9NSA3;Q9Y3Y4;Q8N7H5;O00321;P24864;O603  
81}  
31909 Pathogen[ P14079] interacts with 57 human  
partners:{Q8N944;Q8N2W9;Q04725;Q9NPI1;O60381;O00321;O95271;P24864;O14641;Q92541;Q136  
18;Q14696;Q16531;Q86U70;O43815;Q9NRI5;Q9GZS3;Q8ND76;Q9H2K2;Q9Y2J4;Q8N7J2;O14907;Q96B  
18;Q6PD62;P36402;P35813;Q9HC62;O00512;Q9NZC7;Q8WVC0;P23508;O95996;P25063;Q9Y3Y4;O432  
94;Q9HCK8;Q92837;Q04726;Q04724;Q9Y283;P67870;Q53G59;Q6P1J9;O75030;O75474;Q5JTC6;Q9UN  
36;Q9P1Z2;Q9BRK4;Q9NQC7;Q8N7H5;O60716;Q04727;Q8IY63;Q9P219;Q9Y608;Q9NYF0}  
31910 Pathogen[ P03383] interacts with 51 human  
partners:{Q9BRK4;O60716;Q6P1J9;Q14526;Q86U70;Q6PD62;Q04727;Q9NRI5;P25063;O75474;O750  
30;Q9NTX7;P24385;Q9UN36;Q8N2W9;P35813;Q04724;O00321;Q13618;Q9NSA3;Q04726;Q8WVC0;Q9Y2  
J4;O14641;Q53G59;Q04725;Q14696;Q8N7J2;Q5JTC6;Q8ND76;O94921;O00512;Q8IY63;P36402;P678  
70;Q9HCK8;Q9NYF0;Q92541;P23508;Q9HC62;Q9NPI1;O14907;Q16531;Q92837;O95271;P24864;Q9GZ  
S3;Q9Y608;Q9Y3Y4;Q8N7H5;Q9P1Z2}  
31911 Pathogen[ P03410] interacts with 62 human  
partners:{Q53G59;Q969F2;Q9P219;O00512;Q14526;Q8WVC0;P35813;Q9NSA3;Q04726;Q6PD62;Q9Y2  
J4;P36402;O75030;Q9NZC7;O75474;O60716;Q96B18;Q04724;O43294;Q8N2W9;O00321;Q9Y283;Q9BQ  
B4;Q92541;P23508;O60381;Q9GZS3;Q8N7H5;Q9P1Z2;P24385;Q13618;Q9HC62;Q9Y608;Q9UN36;O959  
96;P25063;O95271;Q92837;Q969G9;Q86U70;O14907;Q04727;Q9HCK8;Q6P1J9;Q16531;Q9NYF0;Q5JT  
C6;Q9NRI5;Q9HCS4;O43815;Q9Y3Y4;Q8N7J2;Q9H2K2;Q14696;P67870;Q8IY63;P24864;Q8ND76;Q9NP  
I1;Q8N944;Q04725;O14641}  
31912 Pathogen[ P14075] interacts with 52 human  
partners:{Q04727;P35813;Q86U70;O00512;Q14526;O75030;Q9NPI1;Q04725;Q9NTX7;Q13618;Q9Y3  
Y4;Q8WVC0;Q53G59;Q8N2W9;Q8IY63;Q9NRI5;Q8N7H5;Q6P1J9;Q9Y2J4;Q92541;Q04726;Q8N7J2;O146  
41;Q9NSA3;Q6PD62;Q9HC62;Q9HCK8;P67870;Q14696;Q9Y608;Q92837;Q9UN36;O14907;Q16531;O754  
74;Q9P1Z2;Q9GZS3;P36402;Q5JTC6;P23508;Q9BRK4;Q8ND76;Q04724;P24385;O60716;O95271;O949  
21;Q9NYF0;Q8N944;O00321;P25063;P24864}  
31913 Pathogen[ P0C206] interacts with 65 human  
partners:{O95271;Q9NQC7;O60716;Q9HCK8;Q6PD62;O00512;Q9NPI1;Q9NSA3;Q969F2;O75474;O750  
30;O43815;Q8N944;Q8IY63;Q9H2H0;Q04726;Q8N2W9;Q9HC62;Q9Y3Y4;Q92541;Q04727;Q16531;Q9HC  
S4;P98170;Q04725;Q9P1Z2;O00321;O95996;Q9Y283;Q96B18;O14907;Q9Y608;P25063;Q8N7H5;Q136  
18;Q9GZS3;Q8N7J2;Q9P219;Q9NRI5;Q9Y2J4;P67870;Q8WVC0;O43294;O60381;Q04724;Q9NZC7;Q9NY  
F0;Q86U70;Q8ND76;Q9UN36;Q14696;Q14526;Q92837;Q9NTX7;Q53G59;P24864;P36402;Q9H2K2;Q6P1  
J9;O94921;Q969G9;P35813;Q5JTC6;P23508;P24385}  
31914 Pathogen[ P03363] interacts with 57 human  
partners:{Q86U70;Q9UIW0;O14907;Q5JTC6;Q9GZS3;O95996;O75474;P24864;Q14526;Q9BRK4;P364  
02;Q8WVC0;Q16531;Q13618;Q9UN36;Q9NTX7;Q8ND76;Q969G9;Q04726;Q9NYF0;Q8IY63;O60381;Q047  
24;Q9HCS4;Q9Y3Y4;P23508;Q9H2K2;Q04727;O00321;Q9Y2J4;Q9Y608;Q9NSA3;Q9HCK8;O75030;Q6P1  
J9;Q9P1Z2;Q9HC62;Q92837;O00512;O43815;Q9NPI1;P98170;O95271;Q53G59;Q9Y283;P24385;Q047  
25;Q92541;Q9NRI5;P67870;Q9P219;Q8N2W9;O14641;O60716;Q8N7H5;Q6PD62;Q8N7J2}  
31915 [Cluster 2902]GO:0033261+P biological\_process [name] regulation of S phase [def] "A



cell cycle process that modulates the rate or extent of the progression through the S phase of the cell cycle." [GOC

31916 Pathogen[ Q2Q067] interacts with 5 human partners:{Q9UNS1;O14757;Q9BVW5;Q14493;Q92793}

31917 Pathogen[ P0C214] interacts with 5 human partners:{Q92793;Q9BVW5;Q14493;Q9UNS1;O14757}

31918 Pathogen[ P03346] interacts with 5 human partners:{Q9UNS1;O14757;Q14493;Q92793;Q9BVW5}

31919 Pathogen[ Q85601] interacts with 5 human partners:{O14757;Q92793;Q14493;Q9BVW5;Q9UNS1}

31920 Pathogen[ P14079] interacts with 4 human partners:{Q92793;Q14493;Q9UNS1;Q9BVW5}

31921 Pathogen[ P03383] interacts with 5 human partners:{Q9UNS1;O14757;Q9BVW5;Q14493;Q92793}

31922 Pathogen[ P03410] interacts with 5 human partners:{Q14493;Q9BVW5;Q92793;O14757;Q9UNS1}

31923 Pathogen[ P14075] interacts with 5 human partners:{Q14493;Q9BVW5;Q92793;Q9UNS1;O14757}

31924 Pathogen[ P0C206] interacts with 4 human partners:{Q9UNS1;Q92793;Q9BVW5;Q14493}

31925 Pathogen[ P03363] interacts with 5 human partners:{Q9BVW5;Q9UNS1;Q92793;Q14493;O14757}

31926 [Cluster 2903]GO:0051567+P biological\_process [name] histone H3-K9 methylation [def] "The modification of histone H3 by addition of a methyl group to lysine at position 9 of the histone." [GOC

31927 Pathogen[ Q2Q067] interacts with 4 human partners:{O43463;Q9NQX1;Q9UIF9;Q9H5I1}

31928 Pathogen[ P0C214] interacts with 4 human partners:{Q9H5I1;O43463;Q9UIF9;Q9NQX1}

31929 Pathogen[ P03346] interacts with 4 human partners:{Q9NQX1;O43463;Q9UIF9;Q9H5I1}

31930 Pathogen[ Q85601] interacts with 4 human partners:{Q9H5I1;Q9UIF9;O43463;Q9NQX1}

31931 Pathogen[ P14079] interacts with 3 human partners:{Q9NQX1;Q9H5I1;Q9UIF9}

31932 Pathogen[ P03383] interacts with 4 human partners:{O43463;Q9NQX1;Q9UIF9;Q9H5I1}

31933 Pathogen[ P03410] interacts with 4 human partners:{Q9H5I1;Q9UIF9;O43463;Q9NQX1}

31934 Pathogen[ P14075] interacts with 4 human partners:{Q9H5I1;Q9NQX1;Q9UIF9;O43463}

31935 Pathogen[ P0C206] interacts with 4 human partners:{Q9NQX1;O43463;Q9UIF9;Q9H5I1}

31936 Pathogen[ P03363] interacts with 4 human partners:{Q9NQX1;Q9H5I1;Q9UIF9;O43463}

31937 [Cluster 2904]GO:0048863+P biological\_process [name] stem cell differentiation [def] "The process in which a relatively unspecialized cell acquires specialized features of a stem cell. A stem cell is a cell that retains the ability to divide and proliferate throughout life to provide progenitor cells that can differentiate into specialized cells." [CL

31938 Pathogen[ Q2Q067] interacts with 9 human partners:{O00231;P31268;Q9Y2X9;P35548;P56693;Q9H9Z2;P09016;P43268;Q9Y651}

31939 Pathogen[ P0C214] interacts with 7 human partners:{P56693;O00231;P43268;Q9H9Z2;Q9Y2X9;Q9Y651;P35548}

31940 Pathogen[ P03346] interacts with 11 human partners:{P31268;P35548;P56693;Q9HCS4;O00231;P98177;P09016;Q9Y651;Q9Y2X9;P43268;Q9H9Z2}

31941 Pathogen[ Q85601] interacts with 8 human partners:{Q9Y651;Q9Y2X9;P35548;P56693;O00231;P43268;Q9HCS4;Q9H9Z2}

31942 Pathogen[ P14079] interacts with 5 human partners:{Q9H9Z2;Q9Y2X9;P56693;O00231;P28360}

31943 Pathogen[ P03383] interacts with 6 human partners:{Q9H9Z2;P35548;P43268;O00231;Q9Y2X9;P56693}

31944 Pathogen[ P03410] interacts with 7 human partners:{Q9Y2X9;P35548;P43268;P56693;O00231;Q9HCS4;Q9H9Z2}

31945 Pathogen[ P14075] interacts with 6 human partners:{P43268;P35548;Q9H9Z2;P56693;O00231;Q9Y2X9}

31946 Pathogen[ P0C206] interacts with 10 human partners:{Q9Y2X9;P43268;P31268;Q9HCS4;P56693;Q9H9Z2;P35548;P09016;O00231;Q9Y651}

31947 Pathogen[ P03363] interacts with 9 human partners:{P35548;Q9HCS4;P43268;Q9Y2X9;P56693;P31268;Q9H9Z2;P09016;Q9Y651}

31948 [Cluster 2905]GO:0006919+P biological\_process [name] activation of caspase activity [def] "Upregulation of the activity of a caspase, any of a group of cysteine proteases involved in apoptosis." [GOC

31949 Pathogen[ Q2Q067] interacts with 29 human partners:{Q9NR28;O75340;O00291;Q9UMX3;Q9BXH1;P54274;P61604;Q00994;Q12933;Q13158;Q13794;Q14790;Q8N726;P84022;Q9HD36;Q16890;Q96BY2;P23396;Q9H6Z9;Q9C000;Q15628;O95831;Q9NWB7;Q9Y2G2;P46527;Q96A26;Q96EY1;Q9UKL3;Q71UM5}

31950 Pathogen[ P0C214] interacts with 32 human partners:{Q9NWB7;Q9NPP4;Q15628;Q96BY2;Q92934;P23396;Q13158;P61604;Q00994;P84022;P46527;Q71UM5;Q8N726;O75340;Q16890;Q13794;Q9BXH1;Q9H6Z9;Q9UKL3;Q12933;Q9HD36;Q9UMX3;P10809;Q9Y2G2;O14727;Q9NR28;O00291;Q96EY1;P54274;P55072;Q14790;Q9C000}

31951 Pathogen[ P03346] interacts with 33 human partners:{Q13158;Q9NR28;P54274;P61604;Q96A26;Q71UM5;Q00994;Q96BY2;O00291;P55072;Q16890;Q9UKL3;P84022;Q9NPP4;O75340;P51397;Q9NWB7;O95831;Q15628;P23396;P55211;Q14790;Q9UMX3;Q9Y2G2;Q8N726;P46527;Q9BXH1;Q9HD36;O14727;Q96EY1;Q9H6Z9;Q13794;Q9C000}

31952 Pathogen[ Q85601] interacts with 27 human partners:{Q16890;Q9H6Z9;Q9UKL3;Q9BXH1;O95831;Q9HD36;Q13158;Q14790;P23396;P61604;Q9NW

B7;Q96BY2;Q9Y2G2;Q71UM5;Q9NR28;Q9UMX3;Q8N726;Q12933;O75340;Q15628;P84022;O00291;Q00994;Q96EY1;P54274;Q13794;P46527}

31953 Pathogen[ P14079] interacts with 34 human partners: {P54274;Q16890;P23396;O00291;Q9NWB7;Q9C000;Q9BXX5;Q00994;Q8N726;Q9BXH1;P61604;O95831;Q9UKL3;Q14790;Q96BY2;Q92934;O75340;Q9HD36;Q9H6Z9;Q9NR28;Q13794;Q71UM5;Q9UMX3;Q96A26;Q9Y2G2;Q12933;Q13158;P46527;P51397;Q9Y239;Q15628;Q96EY1;P40305;Q9NPP4}

31954 Pathogen[ P03383] interacts with 26 human partners: {Q9UKL3;Q9NWB7;P61604;Q9UMX3;O95831;Q96A26;Q71UM5;Q13158;O00291;P84022;Q00994;P46527;Q12933;Q9H6Z9;Q9Y2G2;Q15628;P51397;Q13794;Q9BXH1;Q9NR28;Q16890;P23396;Q96EY1;P54274;Q8N726;Q96BY2}

31955 Pathogen[ P03410] interacts with 33 human partners: {P84022;P46527;Q9Y2G2;Q9Y239;Q8N726;Q9H6Z9;Q9NR28;Q9BXH1;P54274;P61604;Q96BY2;Q9HD36;P23396;Q92934;Q9NPP4;Q9C000;Q13794;O00291;Q13158;Q00994;Q15628;P51397;Q9NWB7;Q9UMX3;Q96A26;Q12933;O95831;Q9UKL3;Q16890;O75340;P40305;Q96EY1;Q71UM5}

31956 Pathogen[ P14075] interacts with 27 human partners: {Q96BY2;Q96A26;Q9UMX3;P61604;Q00994;P46527;O00291;Q9NR28;Q9UKL3;P54274;P51397;Q12933;O95831;Q16890;Q9BXH1;Q13158;P23396;Q13794;Q9NWB7;Q15628;P40305;P84022;Q96EY1;Q8N726;Q9Y2G2;Q9H6Z9;Q71UM5}

31957 Pathogen[ P0C206] interacts with 34 human partners: {O75340;Q9C000;P84022;P40305;Q9Y2G2;O00291;Q8N726;Q9NR28;Q9HD36;Q9UKL3;Q9UMX3;Q16890;Q13158;Q9BXH1;Q96A26;Q12933;Q00994;Q92934;P54274;P23396;P51397;O95831;Q9NWB7;Q71UM5;P46527;Q96BY2;Q14790;Q15628;P55072;Q9H6Z9;Q9BXX5;Q96EY1;P61604;Q13794}

31958 Pathogen[ P03363] interacts with 27 human partners: {P23396;Q9C000;O75340;Q13794;Q12933;Q9H6Z9;Q13158;Q9NWB7;Q9HD36;Q9NR28;Q96BY2;P54274;Q9UKL3;P84022;Q9Y2G2;Q00994;Q15628;Q71UM5;Q8N726;Q16890;Q9NPP4;Q9BXH1;Q96EY1;Q9UMX3;O00291;P61604;O95831}

31959 [Cluster 2906]GO:0055008+P biological\_process [name] cardiac muscle tissue morphogenesis [def] "The process in which the anatomical structures of cardiac muscle tissue are generated and organized." [GOC]

31960 Pathogen[ Q2Q067] interacts with 3 human partners: {Q15327;Q8IX07;Q9GZT9}

31961 Pathogen[ P0C214] interacts with 3 human partners: {Q15327;Q9GZT9;Q8IX07}

31962 Pathogen[ P03346] interacts with 3 human partners: {Q15327;Q9GZT9;Q8IX07}

31963 Pathogen[ Q85601] interacts with 3 human partners: {Q9GZT9;Q15327;Q8IX07}

31964 Pathogen[ P14079] interacts with 5 human partners: {Q9GZT9;P68032;Q8IX07;Q15327;O15273}

31965 Pathogen[ P03383] interacts with 1 human partners: {Q15327}

31966 Pathogen[ P03410] interacts with 4 human partners: {Q15327;O15273;Q9GZT9;Q8IX07}

31967 Pathogen[ P14075] interacts with 2 human partners: {Q9GZT9;Q15327}

31968 Pathogen[ P0C206] interacts with 3 human partners: {Q9GZT9;Q15327;Q8IX07}

31969 Pathogen[ P03363] interacts with 1 human partners: {Q15327}

31970 [Cluster 2907]GO:0042766+P biological\_process [name] nucleosome mobilization [def] "The movement of nucleosomes along a DNA fragment." [PMID]

31971 Pathogen[ Q2Q067] interacts with 1 human partners: {O14497}

31972 Pathogen[ P0C214] interacts with 1 human partners: {O14497}

31973 Pathogen[ P03346] interacts with 1 human partners: {O14497}

31974 Pathogen[ Q85601] interacts with 1 human partners: {O14497}

31975 Pathogen[ P14079] interacts with 1 human partners: {O14497}

31976 Pathogen[ P03383] interacts with 1 human partners: {O14497}

31977 Pathogen[ P03410] interacts with 1 human partners: {O14497}

31978 Pathogen[ P14075] interacts with 1 human partners: {O14497}

31979 Pathogen[ P0C206] interacts with 1 human partners: {O14497}

31980 Pathogen[ P03363] interacts with 1 human partners: {O14497}

31981 [Cluster 2908]GO:0010458+P biological\_process [name] exit from mitosis [def] "The cell cycle process where a cell leaves M phase. M phase is the part of the mitotic cell cycle during which mitosis and cytokinesis take place." [GOC]

31982 Pathogen[ Q2Q067] interacts with 4 human partners: {Q7Z460;O00762;Q66LE6;Q9Y5B0}

31983 Pathogen[ P0C214] interacts with 5 human partners: {Q16763;O00762;Q66LE6;Q7Z460;Q9Y5B0}

31984 Pathogen[ P03346] interacts with 4 human partners: {Q66LE6;Q9Y5B0;O00762;Q7Z460}

31985 Pathogen[ Q85601] interacts with 5 human partners: {Q16763;Q66LE6;Q9Y5B0;O00762;Q7Z460}

31986 Pathogen[ P14079] interacts with 4 human partners: {Q7Z460;Q9Y5B0;Q66LE6;O00762}

31987 Pathogen[ P03383] interacts with 3 human partners: {Q7Z460;O00762;Q9Y5B0}

31988 Pathogen[ P03410] interacts with 4 human partners: {Q7Z460;Q9Y5B0;O00762;Q66LE6}

31989 Pathogen[ P14075] interacts with 3 human partners: {Q9Y5B0;Q7Z460;O00762}

31990 Pathogen[ P0C206] interacts with 5 human partners: {Q16763;Q66LE6;Q9Y5B0;O00762;Q7Z460}

31991 Pathogen[ P03363] interacts with 4 human partners: {Q9Y5B0;O00762;Q66LE6;Q7Z460}

31992 [Cluster 2909]GO:0006386+P biological\_process [name] termination of RNA polymerase III transcription [def] "The process in which transcription by RNA polymerase III is terminated. Pol III has an intrinsic ability to terminate transcription upon incorporation of 4 to 6 contiguous U residues." [GOC]

31993 Pathogen[ Q2Q067] interacts with 15 human partners: {P52434;P19388;P61218;Q9BUI4;Q9NVU0;P62875;O15318;P53803;Q9Y535;Q9Y250;P05423;O14802;Q9HID9;Q9Y2S0;O15160}

31994 Pathogen[ P0C214] interacts with 16 human

31995 partners: {Q9BUI4;P53803;Q9NVU0;Q9H1D9;Q9Y2S0;P61218;P05423;Q9Y250;O15318;Q9NW08;P62875;O15160;Q9Y535;P52434;P19388;O14802}  
Pathogen[ P03346] interacts with 15 human

31996 partners: {Q9NVU0;P52434;P05423;P53803;P61218;O15318;P19388;Q9H1D9;O15160;Q9Y250;Q9Y535;Q9BUI4;O14802;Q9Y2S0;P62875}  
Pathogen[ Q85601] interacts with 17 human

31997 partners: {Q9Y250;Q9H1D9;Q9Y535;Q9BUI4;Q9Y2Y1;P53803;Q9Y2S0;P61218;P05423;Q9NVU0;P19388;Q9NW08;P52434;O15160;O14802;O15318;P62875}  
Pathogen[ P14079] interacts with 18 human

31998 partners: {Q9Y2S0;P62875;Q9NW08;P52434;P61218;Q9Y250;P53803;P19388;Q9BUI4;P05423;O15160;Q9Y2Y1;Q9BT43;Q9NVU0;O14802;O15318;Q9H1D9;Q9Y535}  
Pathogen[ P03383] interacts with 11 human

31999 partners: {P53803;Q9Y535;P52434;P61218;Q9H1D9;Q9NVU0;P62875;O15318;P19388;O14802;Q9Y250}  
Pathogen[ P03410] interacts with 18 human

32000 partners: {Q9BT43;O15318;Q9Y535;Q9NW08;P53803;Q9Y2S0;P62875;P05423;P61218;Q9Y2Y1;O15160;P52434;Q9H1D9;Q9Y250;Q9NVU0;P19388;O14802;Q9BUI4}  
Pathogen[ P14075] interacts with 11 human

32001 partners: {Q9NVU0;P19388;P61218;Q9Y250;Q9H1D9;Q9Y535;P62875;P52434;O14802;O15318;P53803}  
Pathogen[ P0C206] interacts with 18 human

32002 partners: {P62875;Q9BT43;P19388;P61218;Q9NW08;Q9BUI4;O15318;Q9Y535;P05423;Q9NVU0;P53803;Q9Y2S0;O14802;Q9Y2Y1;Q9H1D9;Q9Y250;P52434;O15160}  
Pathogen[ P03363] interacts with 12 human

32003 partners: {Q9Y535;P19388;Q9NVU0;P61218;Q9H1D9;Q9Y250;P05423;O15318;P53803;P52434;Q9Y2S0;O15160}  
[Cluster 2910]GO:0046890+P biological\_process [name] regulation of lipid biosynthetic process [def] "Any process that modulates the frequency, rate or extent of the chemical reactions and pathways resulting in the formation of lipids." [GOC

32004 Pathogen[ Q2Q067] interacts with 2 human partners: {Q92748;Q9NPA3}

32005 Pathogen[ P0C214] interacts with 2 human partners: {Q9NPA3;Q92748}

32006 Pathogen[ P03346] interacts with 2 human partners: {Q92748;Q9NPA3}

32007 Pathogen[ Q85601] interacts with 2 human partners: {Q9NPA3;Q92748}

32008 Pathogen[ P14079] interacts with 2 human partners: {Q9NPA3;Q92748}

32009 Pathogen[ P03383] interacts with 2 human partners: {Q92748;Q9NPA3}

32010 Pathogen[ P03410] interacts with 2 human partners: {Q92748;Q9NPA3}

32011 Pathogen[ P14075] interacts with 2 human partners: {Q92748;Q9NPA3}

32012 Pathogen[ P0C206] interacts with 2 human partners: {Q9NPA3;Q92748}

32013 Pathogen[ P03363] interacts with 2 human partners: {Q92748;Q9NPA3}

32014 [Cluster 2911]GO:0048545+P biological\_process [name] response to steroid hormone stimulus [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a steroid hormone stimulus." [GOC

32015 Pathogen[ Q2Q067] interacts with 2 human partners: {P24385;P24864}

32016 Pathogen[ P0C214] interacts with 4 human partners: {P68133;P24385;P05543;P24864}

32017 Pathogen[ P03346] interacts with 2 human partners: {P24385;P24864}

32018 Pathogen[ Q85601] interacts with 3 human partners: {P68133;P24385;P24864}

32019 Pathogen[ P14079] interacts with 3 human partners: {P24864;O60502;P68133}

32020 Pathogen[ P03383] interacts with 2 human partners: {P24385;P24864}

32021 Pathogen[ P03410] interacts with 4 human partners: {O60502;P24385;P68133;P24864}

32022 Pathogen[ P14075] interacts with 2 human partners: {P24385;P24864}

32023 Pathogen[ P0C206] interacts with 3 human partners: {P68133;P24864;P24385}

32024 Pathogen[ P03363] interacts with 3 human partners: {P24864;P68133;P24385}

32025 [Cluster 2912]GO:0003382+P biological\_process [name] epithelial cell morphogenesis [def] "The change in form that occurs when an epithelial cell progresses from its initial formation to its mature state." [GOC

32026 Pathogen[ Q2Q067] interacts with 1 human partners: {P63000}

32027 Pathogen[ P0C214] interacts with 2 human partners: {P63000;Q5SW24}

32028 Pathogen[ P03346] interacts with 1 human partners: {P63000}

32029 Pathogen[ Q85601] interacts with 2 human partners: {P63000;Q5SW24}

32030 Pathogen[ P14079] interacts with 1 human partners: {Q5SW24}

32031 Pathogen[ P03383] interacts with 1 human partners: {P63000}

32032 Pathogen[ P03410] interacts with 2 human partners: {P63000;Q5SW24}

32033 Pathogen[ P14075] interacts with 1 human partners: {P63000}

32034 Pathogen[ P0C206] interacts with 2 human partners: {Q5SW24;P63000}

32035 Pathogen[ P03363] interacts with 1 human partners: {P63000}

32036 [Cluster 2913]GO:0046827+P biological\_process [name] positive regulation of protein export from nucleus [def] "Any process that activates or increases the frequency, rate or extent of directed movement of proteins from the nucleus into the cytoplasm." [GOC

32037 Pathogen[ Q2Q067] interacts with 3 human partners: {P50402;O43516;Q9C0E2}

32038 Pathogen[ P0C214] interacts with 3 human partners: {O43516;P50402;Q9C0E2}

32039 Pathogen[ P03346] interacts with 3 human partners: {O43516;Q9C0E2;P50402}

32040 Pathogen[ Q85601] interacts with 3 human partners: {Q9C0E2;O43516;P50402}

32041 Pathogen[ P14079] interacts with 3 human partners: {O43516;P50402;Q9C0E2}

32042 Pathogen[ P03383] interacts with 3 human partners: {O43516;Q9C0E2;P50402}

32043 Pathogen[ P03410] interacts with 3 human partners: {O43516;P50402;Q9C0E2}

32044 Pathogen[ P14075] interacts with 3 human partners:{Q9C0E2;P50402;O43516}  
32045 Pathogen[ P0C206] interacts with 3 human partners:{P50402;O43516;Q9C0E2}  
32046 Pathogen[ P03363] interacts with 3 human partners:{Q9C0E2;P50402;O43516}  
32047 [Cluster 2914]GO:0006644+P biological\_process [name] phospholipid metabolic process  
[def] "The chemical reactions and pathways involving phospholipids, any lipid containing  
phosphoric acid as a mono- or diester." [ISBN  
32048 Pathogen[ Q2Q067] interacts with 9 human  
partners:{Q96G23;Q9UG56;Q8WYR1;Q92539;Q92562;P27986;Q8WWR8;Q5UE93;Q14693}  
32049 Pathogen[ P0C214] interacts with 22 human  
partners:{Q8WWR8;Q9HA82;Q8N335;Q99698;Q9H227;O15056;P40939;Q9Y3R4;Q9NPB8;Q92562;Q925  
39;Q08AM6;Q8WYR1;Q9BQK8;Q96G23;Q5UE93;Q9UG56;Q13615;P27986;Q14693;P21695;P16278}  
32050 Pathogen[ P03346] interacts with 13 human  
partners:{Q99698;Q8WYR1;Q92562;O15056;P16278;Q92539;Q96G23;Q8WWR8;Q9UG56;Q5UE93;P279  
86;Q9Y263;Q14693}  
32051 Pathogen[ Q85601] interacts with 10 human  
partners:{Q08AM6;Q9UG56;Q92562;P27986;Q96G23;Q8WYR1;Q5UE93;Q92539;Q99698;Q14693}  
32052 Pathogen[ P14079] interacts with 29 human  
partners:{Q9NY59;Q92562;P16278;Q9BQK8;Q9NPB8;Q14693;Q9NXXE4;Q8WYR1;Q9HA82;Q32NB8;Q925  
39;P06280;P27544;Q9UG56;P54803;Q96G23;Q9Y263;Q13510;O95292;Q8NBK3;Q8WWR8;Q9NZ20;Q9Y3  
R4;Q96PE3;P21695;Q99698;Q5UE93;P17405;O15327}  
32053 Pathogen[ P03383] interacts with 6 human  
partners:{P27986;Q8WWR8;Q8WYR1;Q5UE93;Q92539;Q14693}  
32054 Pathogen[ P03410] interacts with 29 human  
partners:{P54803;Q9BQK8;Q92562;O95292;P27986;Q96PE3;Q5UE93;Q8WYR1;O15327;P16278;P275  
44;Q9NXXE4;Q96G23;Q14693;Q9NPB8;Q13510;Q08AM6;Q9HA82;Q9NZ20;Q9Y263;Q99698;Q9UBY8;Q9Y3  
R4;Q92539;Q9UG56;P17405;Q8WWR8;P21695;Q16635}  
32055 Pathogen[ P14075] interacts with 8 human  
partners:{Q8WYR1;Q8WWR8;Q5UE93;Q13510;Q92539;P27986;Q9UG56;Q14693}  
32056 Pathogen[ P0C206] interacts with 18 human  
partners:{Q92539;Q96G23;Q92562;Q13615;Q99698;P27986;O95292;Q9Y3R4;Q9HA82;Q9UG56;Q9BQ  
K8;Q9NPB8;Q8WWR8;P16278;Q5UE93;Q14693;Q08AM6;Q8WYR1}  
32057 Pathogen[ P03363] interacts with 8 human  
partners:{Q9Y263;Q8WYR1;Q92539;Q99698;Q5UE93;O15056;Q96G23;P27986}  
32058 [Cluster 2915]GO:0019918+P biological\_process [name] peptidyl-arginine methylation, to  
symmetrical-dimethyl arginine [def] "The process of methylation of peptidyl-arginine  
to form peptidyl-N(omega),N'(omega)-dimethyl-L-arginine." [RESID  
32059 Pathogen[ Q2Q067] interacts with 2 human partners:{O14744;Q9NVM4}  
32060 Pathogen[ P0C214] interacts with 1 human partners:{Q9NVM4}  
32061 Pathogen[ P03346] interacts with 2 human partners:{O14744;Q9NVM4}  
32062 Pathogen[ Q85601] interacts with 2 human partners:{Q9NVM4;O14744}  
32063 Pathogen[ P14079] interacts with 2 human partners:{Q9NVM4;O14744}  
32064 Pathogen[ P03383] interacts with 1 human partners:{O14744}  
32065 Pathogen[ P03410] interacts with 2 human partners:{Q9NVM4;O14744}  
32066 Pathogen[ P14075] interacts with 1 human partners:{O14744}  
32067 Pathogen[ P0C206] interacts with 2 human partners:{O14744;Q9NVM4}  
32068 Pathogen[ P03363] interacts with 2 human partners:{O14744;Q9NVM4}  
32069 [Cluster 2916]GO:0034134+P biological\_process [name] toll-like receptor 2 signaling  
pathway [def] "Any series of molecular signals generated as a consequence of binding to  
toll-like receptor 2." [GOC  
32070 Pathogen[ Q2Q067] interacts with 30 human  
partners:{P01100;Q15653;Q04206;Q9NYJ8;Q8N5C8;O75582;Q9Y6K9;Q13233;P61088;Q96FA3;P194  
19;P19838;P15336;Q8N5C8;P25963;P0CG47;O14920;P45984;Q00653;P0CG48;O43318;P62987;Q134  
04;Q9HAT8;O15111;Q15759;Q16829;Q02078;Q15750;P62979}  
32071 Pathogen[ P0C214] interacts with 33 human  
partners:{Q00653;O15111;Q9Y6K9;P19838;P15336;P01100;Q96FA3;P19419;Q04206;Q9HAT8;Q134  
04;Q15653;O43318;Q02078;Q8N5C8;Q13233;P0CG48;P25963;Q16829;O75582;P62987;Q15750;P054  
12;Q8N5C8;Q15759;P0CG47;P45984;P16220;P62979;O14920;Q9NYJ8;P61088;P18846}  
32072 Pathogen[ P03346] interacts with 34 human  
partners:{Q9Y6K9;P05412;P45984;Q02078;O15111;P16220;P15336;P62987;P25963;Q8N5C8;Q156  
53;P19419;P0CG48;Q04206;Q96FA3;Q13404;Q8N5C8;P61088;Q9NYJ8;Q9HAT8;Q13233;O75582;Q157  
50;Q16829;P62979;Q15759;P0CG47;P45985;P19838;O14920;O43318;P01100;P18846;Q00653}  
32073 Pathogen[ Q85601] interacts with 33 human  
partners:{Q02078;Q15750;Q9NYJ8;O15111;P19419;Q9HAT8;Q16829;P18846;P0CG48;Q15653;Q96F  
A3;Q13404;Q8N5C8;P01100;Q9Y6K9;Q8N5C8;P16220;O14920;Q04206;P05412;O75582;P62979;Q157  
59;P0CG47;P45984;Q13233;P62987;Q00653;P15336;O43318;P61088;P19838;P25963}  
32074 Pathogen[ P14079] interacts with 32 human  
partners:{Q9HAT8;Q8N5C8;Q02078;P0CG48;Q06413;O43187;P53779;P52564;O75582;Q16829;Q134  
04;Q15750;P62979;P62987;Q96FA3;P45984;P45983;Q16644;Q8N5C8;Q15759;Q9Y6K9;P45985;P153  
36;Q9Y6Y9;Q13164;P05412;P0CG47;Q9Y239;P01100;Q99836;P19419;Q15653}  
32075 Pathogen[ P03383] interacts with 32 human  
partners:{O75582;P16220;Q9Y6K9;P62987;Q13233;Q00653;O14920;O15111;P19419;P18846;Q156  
53;O43318;Q8N5C8;P61088;Q13404;Q15759;P25963;P01100;P62979;P0CG47;Q96FA3;Q04206;P459  
84;P0CG48;P15336;Q9NYJ8;P19838;Q8N5C8;Q02078;Q9HAT8;Q15750;P05412}  
32076 Pathogen[ P03410] interacts with 37 human  
partners:{Q04206;P19838;P0CG48;O14920;Q9Y239;Q8N5C8;P19419;O15111;Q15750;Q96FA3;O755  
82;O43187;Q15653;P61088;Q13233;P62979;P01100;P18846;O43318;Q16829;P45985;Q9NYJ8;Q8N5

C8;P16220;Q9HAT8;P05412;Q9Y6Y9;P45984;P62987;P53779;Q02078;Q00653;Q13404;Q9Y6K9;P25963;P15336;POCG47}

32077 Pathogen[ P14075] interacts with 32 human  
partners: {O15111;Q04206;Q15750;P05412;Q15759;O75582;P61088;P19419;P15336;Q15653;P25963;Q8NFZ5;Q8N5C8;O14920;POCG48;P62979;O43318;Q9HAT8;Q96FA3;P62987;Q02078;P01100;POCG47;Q13404;P19838;Q00653;P16220;Q9Y6K9;Q13233;P18846;P45984;Q9NYJ8}

32078 Pathogen[ POC206] interacts with 34 human  
partners: {POCG48;O14920;Q9Y6K9;Q02078;P16220;Q8N5C8;O75582;P45984;P05412;P25963;P19419;Q9HAT8;Q8NFZ5;O43318;P15336;Q15653;P18846;Q16829;Q13233;P61088;P19838;P01100;Q04206;O15111;P62979;Q9NYJ8;P45985;POCG47;Q96FA3;Q00653;Q15750;P62987;Q13404;Q15759}

32079 Pathogen[ P03363] interacts with 27 human  
partners: {O14920;Q04206;P25963;O15111;Q9NYJ8;P16220;Q9Y6K9;P19419;O43318;Q15750;P61088;P15336;Q15653;Q16829;Q00653;Q96FA3;P18846;P62987;P19838;P05412;Q13404;Q9HAT8;Q8NFZ5;Q8N5C8;Q13233;P01100;Q02078}

32080 [Cluster 2917]GO:0045071+P biological\_process [name] negative regulation of viral genome replication [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of viral genome replication." [GOC

32081 Pathogen[ Q2Q067] interacts with 7 human  
partners: {Q9Y6K5;Q16666;Q15025;Q7Z2W4;O15162;P09914;Q9HC16}

32082 Pathogen[ POC214] interacts with 8 human  
partners: {P09914;Q9Y6K5;Q16666;Q8WXG1;Q7Z2W4;Q9HC16;O15162;Q15025}

32083 Pathogen[ P03346] interacts with 7 human  
partners: {Q16666;Q15646;Q15025;P09914;Q9Y6K5;Q7Z2W4;O15162}

32084 Pathogen[ Q85601] interacts with 7 human  
partners: {Q16666;Q9HC16;Q7Z2W4;Q9Y6K5;Q15025;P09914;O15162}

32085 Pathogen[ P14079] interacts with 12 human  
partners: {P13164;O15162;P09914;Q7Z2W4;P31941;Q9HC16;Q15025;Q7Z434;P03973;Q9Y6K5;Q16666;Q8WXG1}

32086 Pathogen[ P03383] interacts with 5 human  
partners: {O15162;Q15025;Q16666;Q9Y6K5;Q7Z2W4}

32087 Pathogen[ P03410] interacts with 10 human  
partners: {Q16666;Q15025;Q8WXG1;Q7Z434;O15162;Q9HC16;Q7Z2W4;Q9Y6K5;P31941;P09914}

32088 Pathogen[ P14075] interacts with 5 human  
partners: {O15162;Q16666;Q15025;Q9Y6K5;Q7Z2W4}

32089 Pathogen[ POC206] interacts with 9 human  
partners: {Q9Y6K5;Q16666;Q15025;P31941;O15162;Q9HC16;Q7Z2W4;Q8WXG1;P09914}

32090 Pathogen[ P03363] interacts with 5 human  
partners: {Q9Y6K5;P09914;Q7Z2W4;Q16666;Q15025}

32091 [Cluster 2918]GO:0030890+P biological\_process [name] positive regulation of B cell proliferation [def] "Any process that activates or increases the rate or extent of B cell proliferation." [GOC

32092 Pathogen[ Q2Q067] interacts with 7 human  
partners: {Q8IUC6;P41182;Q13469;P35226;P38936;Q96FA3;P15923}

32093 Pathogen[ POC214] interacts with 7 human  
partners: {P35226;Q13469;Q8IUC6;Q96FA3;P38936;P15923;P41182}

32094 Pathogen[ P03346] interacts with 8 human  
partners: {O75995;P35226;P15923;Q96FA3;Q13469;P41182;Q8IUC6;P38936}

32095 Pathogen[ Q85601] interacts with 7 human  
partners: {Q8IUC6;Q13469;Q96FA3;P15923;P35226;P38936;P41182}

32096 Pathogen[ P14079] interacts with 10 human  
partners: {Q9BXL7;Q06413;Q8IUC6;P15923;Q96FA3;P41182;P38936;P13232;P35226;Q13469}

32097 Pathogen[ P03383] interacts with 5 human  
partners: {Q13469;Q8IUC6;P15923;Q96FA3;P35226}

32098 Pathogen[ P03410] interacts with 9 human  
partners: {Q96FA3;P15923;P38936;Q9BXL7;Q13469;P41182;Q8IUC6;P35226;P13232}

32099 Pathogen[ P14075] interacts with 5 human  
partners: {P15923;Q13469;Q96FA3;Q8IUC6;P35226}

32100 Pathogen[ POC206] interacts with 7 human  
partners: {Q13469;P41182;P35226;P15923;P38936;Q8IUC6;Q96FA3}

32101 Pathogen[ P03363] interacts with 4 human partners: {P15923;Q96FA3;P35226;Q13469}

32102 [Cluster 2919]GO:0030326+P biological\_process [name] embryonic limb morphogenesis [def] "The process, occurring in the embryo, by which the anatomical structures of the limb are generated and organized. A limb is an appendage of an animal used for locomotion or grasping." [GOC

32103 Pathogen[ Q2Q067] interacts with 11 human  
partners: {Q9NR56;Q8IVN3;P35548;Q15699;P12755;Q96AP0;P20823;P40425;P54821;P40424;P31260}

32104 Pathogen[ POC214] interacts with 7 human  
partners: {P40424;Q9NR56;P12755;Q8IVN3;P40425;Q15699;P35548}

32105 Pathogen[ P03346] interacts with 19 human  
partners: {Q96AP0;P54821;P35453;P31260;Q99811;Q05925;P35548;P31270;Q9UJQ4;P20823;POCG40;Q8IVN3;Q15699;P28358;P40425;Q99593;P40424;P56178;Q9NR56}

32106 Pathogen[ Q85601] interacts with 9 human  
partners: {Q9NR56;P12755;Q8IVN3;P31260;P40424;Q15699;P40425;P35548;P20823}

32107 Pathogen[ P14079] interacts with 9 human  
partners: {P12755;Q15699;Q9NR56;POCG40;Q8IVN3;Q4AC94;Q9UJQ4;P28360;Q96AP0}

32108 Pathogen[ P03383] interacts with 6 human partners:{P40424;Q9NR56;Q8IVN3;P35548;Q15699;P40425}

32109 Pathogen[ P03410] interacts with 9 human partners:{P12755;Q96AP0;Q4AC94;Q9NR56;P35548;Q8IVN3;Q15699;P40424;Q9UJQ4}

32110 Pathogen[ P14075] interacts with 7 human partners:{P40424;P40425;P35548;Q96AP0;Q9NR56;Q15699;Q8IVN3}

32111 Pathogen[ P0C206] interacts with 12 human partners:{P40425;Q9UJQ4;Q96AP0;P54821;Q9NR56;Q15699;P40424;P12755;Q8IVN3;P35548;P20823;P31260}

32112 Pathogen[ P03363] interacts with 15 human partners:{P56179;Q15699;P35453;Q9UJQ4;P35548;Q9NR56;Q96AP0;P40425;P28358;P31260;Q05925;P54821;P40424;Q99811;Q8IVN3}

32113 [Cluster 2920]GO:2000379+P biological\_process [name] positive regulation of reactive oxygen species metabolic process [def] "Any process that activates or increases the frequency, rate or extent of reactive oxygen species metabolic process." [GOC

32114 Pathogen[ Q2Q067] interacts with 4 human partners:{Q16236;P24522;P38936;Q7Z2X4}

32115 Pathogen[ P0C214] interacts with 5 human partners:{P24522;P62993;Q7Z2X4;P38936;Q16236}

32116 Pathogen[ P03346] interacts with 5 human partners:{P62993;Q7Z2X4;Q16236;P38936;P24522}

32117 Pathogen[ Q85601] interacts with 5 human partners:{Q16236;P62993;P24522;Q7Z2X4;P38936}

32118 Pathogen[ P14079] interacts with 7 human partners:{Q1HG43;P38936;P24522;Q16236;P62993;P60602;Q7Z2X4}

32119 Pathogen[ P03383] interacts with 2 human partners:{P24522;Q16236}

32120 Pathogen[ P03410] interacts with 7 human partners:{Q1HG43;P24522;Q16236;P38936;Q7Z2X4;P60602;P62993}

32121 Pathogen[ P14075] interacts with 3 human partners:{P60602;P24522;Q16236}

32122 Pathogen[ P0C206] interacts with 7 human partners:{Q7Z2X4;P24522;P62993;Q1HG43;P38936;Q16236;P60602}

32123 Pathogen[ P03363] interacts with 2 human partners:{Q16236;P24522}

32124 [Cluster 2921]GO:0000281+P biological\_process [name] cytokinesis after mitosis [def] "A cell cycle process that results in the division of the cytoplasm of a cell after mitosis, resulting in the separation of the original cell into two daughter cells." [GOC

32125 Pathogen[ Q2Q067] interacts with 4 human partners:{Q01082;Q8WWK9;Q9UER7;Q9BXS6}

32126 Pathogen[ P0C214] interacts with 5 human partners:{Q9BXS6;Q01082;P35580;Q9UER7;Q8WWK9}

32127 Pathogen[ P03346] interacts with 5 human partners:{Q9BXS6;O95630;Q01082;Q9UER7;Q8WWK9}

32128 Pathogen[ Q85601] interacts with 6 human partners:{Q8WWK9;Q9UER7;Q9BXS6;Q01082;O95630;P35580}

32129 Pathogen[ P14079] interacts with 4 human partners:{Q01082;Q9BXS6;Q9UER7;Q8WWK9}

32130 Pathogen[ P03383] interacts with 4 human partners:{Q8WWK9;Q9BXS6;Q9UER7;P35580}

32131 Pathogen[ P03410] interacts with 5 human partners:{Q8WWK9;Q9BXS6;Q9UER7;P35580;Q01082}

32132 Pathogen[ P14075] interacts with 3 human partners:{Q9BXS6;Q8WWK9;Q9UER7}

32133 Pathogen[ P0C206] interacts with 6 human partners:{Q01082;O95630;Q9UER7;Q9BXS6;P35580;Q8WWK9}

32134 Pathogen[ P03363] interacts with 4 human partners:{Q8WWK9;Q01082;Q9UER7;Q9BXS6}

32135 [Cluster 2922]GO:0048025+P biological\_process [name] negative regulation of nuclear mRNA splicing, via spliceosome [def] "Any process that stops, prevents or reduces the rate or extent of mRNA splicing via a spliceosomal mechanism." [GOC

32136 Pathogen[ Q2Q067] interacts with 5 human partners:{O75494;Q12872;Q16629;P38159;P26368}

32137 Pathogen[ P0C214] interacts with 6 human partners:{P26368;P38159;P26599;Q12872;O75494;Q16629}

32138 Pathogen[ P03346] interacts with 9 human partners:{Q08170;Q13242;Q13247;P26599;Q16629;P26368;P38159;O75494;Q12872}

32139 Pathogen[ Q85601] interacts with 5 human partners:{O75494;Q16629;Q12872;P38159;P26368}

32140 Pathogen[ P14079] interacts with 6 human partners:{P26368;Q16629;P26599;Q12872;O75494;P38159}

32141 Pathogen[ P03383] interacts with 5 human partners:{Q12872;O75494;P26368;P38159;Q16629}

32142 Pathogen[ P03410] interacts with 6 human partners:{P26368;Q16629;P26599;Q12872;P38159;O75494}

32143 Pathogen[ P14075] interacts with 5 human partners:{P38159;O75494;Q12872;P26368;Q16629}

32144 Pathogen[ P0C206] interacts with 5 human partners:{Q12872;P26368;Q16629;O75494;P38159}

32145 Pathogen[ P03363] interacts with 9 human partners:{Q12872;Q08170;Q16629;Q13242;P38159;P26368;P26599;Q13247;O75494}

32146 [Cluster 2923]GO:0030336+P biological\_process [name] negative regulation of cell migration [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of cell migration." [GOC

32147 Pathogen[ Q2Q067] interacts with 9 human partners: {Q9BZE4;Q8N9R8;Q14678;P11831;Q86UL8;O15105;Q5VTR2;Q9UI36;Q96A56}

32148 Pathogen[ POC214] interacts with 10 human partners: {Q14678;P11831;P05121;Q8N9R8;O15105;Q9UI36;Q9H4P4;Q96A56;Q9BZE4;Q5VTR2}

32149 Pathogen[ P03346] interacts with 12 human partners: {Q14678;Q9BZE4;Q5VTR2;P11831;Q96A56;Q9H4P4;O15105;Q86UL8;Q5JRA6;Q99593;Q9UI36;Q8N9R8}

32150 Pathogen[ Q85601] interacts with 11 human partners: {P11831;Q9BZE4;Q8N9R8;Q86UL8;Q14678;Q9UI36;P05121;Q96A56;Q5VTR2;O15105;Q9H4P4}

32151 Pathogen[ P14079] interacts with 13 human partners: {Q96A56;P13164;Q9NP50;Q14118;Q9BZE4;Q5VTR2;Q5JRA6;Q9UI36;Q86UL8;Q8N9R8;Q99439;O15105;Q14678}

32152 Pathogen[ P03383] interacts with 9 human partners: {P11831;Q96A56;Q14678;Q9BZE4;O15105;Q5VTR2;Q9NP50;Q9UI36;Q8N9R8}

32153 Pathogen[ P03410] interacts with 14 human partners: {Q9UI36;P11831;P05121;Q5VTR2;Q99439;Q8N9R8;Q14118;Q14678;O15105;Q96A56;Q86UL8;Q9NP50;Q9BZE4;Q5JRA6}

32154 Pathogen[ P14075] interacts with 9 human partners: {Q5VTR2;P11831;Q8N9R8;Q9NP50;O15105;Q9BZE4;Q9UI36;Q14678;Q96A56}

32155 Pathogen[ POC206] interacts with 13 human partners: {Q9H4P4;Q14678;Q5JRA6;Q96A56;Q5VTR2;O15105;Q8N9R8;Q9BZE4;P11831;P05121;Q86UL8;Q9UI36;Q9NP50}

32156 Pathogen[ P03363] interacts with 10 human partners: {Q9BZE4;Q5VTR2;O15105;P11831;Q96A56;Q9UI36;Q9H4P4;Q8N9R8;Q86UL8;Q14678}

32157 [Cluster 2924]GO:0019433+P biological\_process [name] triglyceride catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of a triglyceride, any triester of glycerol." [ISBN

32158 Pathogen[ Q2Q067] interacts with 3 human partners: {P62140;P36873;P62136}

32159 Pathogen[ POC214] interacts with 3 human partners: {P62140;P62136;P36873}

32160 Pathogen[ P03346] interacts with 3 human partners: {P62136;P36873;P62140}

32161 Pathogen[ Q85601] interacts with 3 human partners: {P62136;P36873;P62140}

32162 Pathogen[ P14079] interacts with 3 human partners: {P36873;P62136;P62140}

32163 Pathogen[ P03383] interacts with 3 human partners: {P62140;P36873;P62136}

32164 Pathogen[ P03410] interacts with 3 human partners: {P62136;P62140;P36873}

32165 Pathogen[ P14075] interacts with 3 human partners: {P62140;P36873;P62136}

32166 Pathogen[ POC206] interacts with 3 human partners: {P62140;P36873;P62136}

32167 Pathogen[ P03363] interacts with 3 human partners: {P62136;P36873;P62140}

32168 [Cluster 2925]GO:0009117+P biological\_process [name] nucleotide metabolic process [def] "The chemical reactions and pathways involving a nucleotide, a nucleoside that is esterified with (ortho)phosphate or an oligophosphate at any hydroxyl group on the glucose moiety\_ may be mono-, di- or triphosphate\_ this definition includes cyclic nucleotides (nucleoside cyclic phosphates)." [GOC

32169 Pathogen[ Q2Q067] interacts with 5 human partners: {P22392;P33316;P49789;O43598;Q9H4L7}

32170 Pathogen[ POC214] interacts with 10 human partners: {Q96P26;P49902;P49789;P33316;Q8TCD5;Q9H4L7;O43598;P22392;Q9Y3B8;Q9H0P0}

32171 Pathogen[ P03346] interacts with 6 human partners: {O43598;P49789;P22392;Q9H4L7;P33316;Q969T7}

32172 Pathogen[ Q85601] interacts with 6 human partners: {O43598;P49789;P33316;Q9H4L7;P22392;Q9H0P0}

32173 Pathogen[ P14079] interacts with 14 human partners: {Q9H0P0;Q9Y3B8;Q96P26;Q8TCD5;Q969T7;Q9H4L7;O43598;Q9UKK9;P33316;P22392;Q9BY32;P49902;Q9BXI3;P49789}

32174 Pathogen[ P03383] interacts with 4 human partners: {P49789;P22392;O43598;P33316}

32175 Pathogen[ P03410] interacts with 13 human partners: {Q96P26;Q9Y3B8;Q9H4L7;Q9UKK9;Q9BY32;P33316;Q9BXI3;P49789;Q8TCD5;Q9H0P0;O43598;P49902;Q969T7}

32176 Pathogen[ P14075] interacts with 5 human partners: {P49902;O43598;P33316;P49789;P22392}

32177 Pathogen[ POC206] interacts with 11 human partners: {P33316;O43598;Q9H4L7;P22392;P49902;Q9BY32;P49789;Q9Y3B8;Q8TCD5;Q9H0P0;Q969T7}

32178 Pathogen[ P03363] interacts with 5 human partners: {P33316;Q9H4L7;Q969T7;P49789;O43598}

32179 [Cluster 2926]GO:0006338+P biological\_process [name] chromatin remodeling [def] "Dynamic structural changes to eukaryotic chromatin occurring throughout the cell division cycle. These changes range from the local changes necessary for transcriptional regulation to global changes necessary for chromosome segregation." [GOC

32180 Pathogen[ Q2Q067] interacts with 49 human partners: {Q13185;P56524;Q92922;O00267;P06400;P01106;O96019;P51531;P11387;Q13547;Q09028;Q7KZ85;Q9UQL6;Q92831;Q969G3;Q92925;Q9P2R6;Q92769;O14497;O00255;P51532;Q9H4L7;Q92830;Q96GM5;Q9UPW6;Q9NRL2;Q9Y6J9;Q96T23;Q58F21;O94805;P20823;Q12983;Q86U86;O14646;Q9ULG1;Q12824;Q9UIF9;Q8TAQ2;Q86WJ1;Q01826;P63272;Q9HBD4;P28370;Q6STE5;P10242;Q8NB12;Q9H5I1;Q15361;Q12830}

32181 Pathogen[ POC214] interacts with 49 human

partners: {Q58F21; Q9H5I1; Q9NRL2; Q9Y6J9; Q13547; Q12824; O14497; Q15361; O00267; Q7KZ85; Q9HBD4; Q9P2R6; P56524; Q6STE5; Q9ULG1; Q9H4L7; Q8TAQ2; Q09028; Q92922; Q969G3; Q9UIF9; P28370; Q92769; P63272; Q92925; Q13185; O60264; P11387; P10242; Q12983; Q01826; Q92831; Q96T23; Q86U86; Q92830; Q9UPW6; O14646; P51531; O94805; Q8NB12; Q96GM5; P01106; Q86WJ1; O96019; Q9UQL6; P06400; O00255; Q12830; P51532}

32182 Pathogen[ P03346] interacts with 54 human partners: {Q9Y6J9; Q7KZ85; Q12830; Q9HBD4; Q96GM5; Q9UPW6; P06400; P51532; Q9ULG1; Q92925; Q8TD26; P56524; Q12824; Q86U86; O14646; P20823; Q92831; Q9NRL2; P63272; Q12983; Q13351; Q86SE8; P01106; Q92830; Q58F21; O96019; P10242; O00255; Q96GD3; Q15361; Q9P2R6; Q92769; O60264; Q13547; Q09028; Q6STE5; O14497; O94805; Q8NB12; Q9UIF9; Q96T23; O00267; Q969G3; Q92922; P28370; P51531; Q9H5I1; Q86WJ1; Q8TAQ2; Q13185; Q9UQL6; Q01826; P11387; Q9H4L7}

32183 Pathogen[ Q85601] interacts with 52 human partners: {P01106; Q9P2R6; Q9H5I1; Q9UPW6; Q9UQL6; Q8NB12; Q9UIF9; Q6STE5; P06400; Q96T23; Q86SE8; Q92925; P10242; O14497; O96019; O14646; Q92831; Q12830; Q9Y6J9; P51531; P11387; Q96GM5; Q92830; P51532; Q969G3; Q92769; Q7KZ85; Q9H4L7; O00255; Q01826; Q13185; Q9NRL2; Q9ULG1; O00267; Q09028; Q9HBD4; Q12983; P56524; P28370; P63272; Q86WJ1; Q13547; Q8TD26; Q86U86; Q15361; O60264; O94805; Q92922; P20823; Q12824; Q8TAQ2; Q58F21}

32184 Pathogen[ P14079] interacts with 46 human partners: {Q9UQL6; Q9UPW6; Q96T23; Q9ULG1; Q6STE5; Q9Y6J9; Q92830; Q9NRG0; Q58F21; Q9NRL2; P28370; Q9H4L7; Q92922; P51532; Q86U86; O14646; Q01826; P51531; O14497; Q8TAQ2; Q9H5I1; Q8TD26; Q7KZ85; O94805; Q13185; Q92769; Q9UIF9; P63272; Q12830; Q9P2R6; Q8NB12; Q86WJ1; Q96GM5; Q12983; Q13351; O60264; P01106; Q12824; P10242; P56524; Q15361; Q09028; O00267; Q969P6; O00255; Q92925}

32185 Pathogen[ P03383] interacts with 44 human partners: {Q86U86; Q09028; Q9Y6J9; Q12830; Q92831; O14497; Q9HBD4; P63272; Q9UPW6; O96019; Q12824; O94805; Q9UQL6; P01106; Q9P2R6; Q01826; Q6STE5; P28370; O14646; P11387; Q96T23; O00267; Q12983; P06400; Q96GM5; Q13185; Q15361; Q969G3; Q92769; Q92830; P51531; Q9UIF9; O00255; Q92925; Q8TAQ2; Q58F21; Q13547; P10242; P56524; Q9NRL2; P51532; Q92922; Q9H5I1; Q7KZ85}

32186 Pathogen[ P03410] interacts with 52 human partners: {Q92830; Q92831; Q86SE8; Q9H4L7; Q96T23; Q12983; Q9P2R6; P01106; O00267; P63272; Q86U86; Q96GM5; O14497; O96019; Q7KZ85; P10242; O14646; Q12830; Q9ULG1; Q9NRG0; P06400; Q9UPW6; Q9UQL6; Q92925; Q969G3; Q09028; Q92769; Q9NRL2; O94805; P56524; Q9H5I1; Q92922; Q01826; P11387; Q9Y6J9; Q13185; P51532; Q86WJ1; P51531; Q13547; Q8NB12; Q8TAQ2; Q9UIF9; Q8TD26; Q6STE5; Q15361; O60264; Q12824; Q9HBD4; O00255; Q58F21; P28370}

32187 Pathogen[ P14075] interacts with 43 human partners: {P11387; Q9Y6J9; O14646; Q12983; Q9HBD4; Q96GM5; Q92831; P51532; Q9P2R6; Q9NRL2; P56524; Q92922; Q7KZ85; P10242; Q13547; P01106; O14497; Q01826; O00255; Q09028; O96019; Q9H5I1; Q9UPW6; Q58F21; Q12830; Q92769; Q86U86; Q13185; P51531; Q92925; Q9UIF9; Q8TAQ2; P28370; P06400; Q12824; O94805; Q96T23; Q9UQL6; Q15361; Q6STE5; O00267; Q92830; P63272}

32188 Pathogen[ P0C206] interacts with 53 human partners: {Q9H4L7; Q92769; Q92830; Q8TD26; P51532; Q15361; P51531; O00255; Q6STE5; P10242; Q96T23; Q92922; Q9NRL2; Q13547; Q12824; Q9Y6J9; Q92925; Q86U86; Q8TAQ2; Q92831; Q9P2R6; O14646; O14497; O96019; Q12983; Q9ULG1; Q9UPW6; Q7KZ85; Q9UIF9; P20823; Q86SE8; Q9H5I1; O00267; P28370; Q86WJ1; Q13185; Q96GM5; Q01826; Q8NB12; Q969G3; Q9HBD4; Q09028; P01106; Q58F21; P11387; P56524; Q12830; O94805; Q9UIG0; O60264; P63272; P06400; Q9UQL6}

32189 Pathogen[ P03363] interacts with 47 human partners: {Q12830; Q92925; Q9ULG1; Q6STE5; Q9NRL2; Q58F21; Q9H5I1; P11387; Q9H4L7; Q09028; Q92831; Q8TAQ2; P51532; Q01826; O14497; Q9UQL6; O00267; P06400; Q13185; P01106; Q7KZ85; O60264; Q96T23; O96019; Q92830; Q8NB12; Q9UIF9; Q969G3; Q9HBD4; Q86U86; O94805; Q13547; Q15361; O14646; P10242; P63272; Q8TD26; P28370; Q86SE8; Q96GM5; P51531; Q92922; Q86WJ1; Q9P2R6; Q9UPW6; Q9Y6J9; Q12824}

32190 [Cluster 2927]GO:0018009+P biological\_process [name] N-terminal peptidyl-L-cysteine N-palmitoylation [def] "The covalent attachment of a palmitoyl group to a nitrogen (N) atom in an N-terminal cysteine residue to form N-palmitoyl-L-cysteine." [RESID

32191 Pathogen[ Q2Q067] interacts with 1 human partners: {Q9H9H5}

32192 Pathogen[ P0C214] interacts with 1 human partners: {Q9H9H5}

32193 Pathogen[ P03346] interacts with 1 human partners: {Q9H9H5}

32194 Pathogen[ Q85601] interacts with 1 human partners: {Q9H9H5}

32195 Pathogen[ P14079] interacts with 1 human partners: {Q9H9H5}

32196 Pathogen[ P03383] interacts with 1 human partners: {Q9H9H5}

32197 Pathogen[ P03410] interacts with 1 human partners: {Q9H9H5}

32198 Pathogen[ P14075] interacts with 1 human partners: {Q9H9H5}

32199 Pathogen[ P0C206] interacts with 1 human partners: {Q9H9H5}

32200 Pathogen[ P03363] interacts with 1 human partners: {Q9H9H5}

32201 [Cluster 2928]GO:0042311+P biological\_process [name] vasodilation [def] "An increase in the internal diameter of blood vessels, especially arterioles or capillaries, usually resulting in a decrease in blood pressure." [ISBN

32202 Pathogen[ Q2Q067] interacts with 2 human partners: {P30793; Q9H1Y0}

32203 Pathogen[ P0C214] interacts with 2 human partners: {P30793; Q9H1Y0}

32204 Pathogen[ P03346] interacts with 1 human partners: {Q9H1Y0}

32205 Pathogen[ Q85601] interacts with 2 human partners: {P30793; Q9H1Y0}

32206 Pathogen[ P14079] interacts with 2 human partners: {P30793; Q9H1Y0}

32207 Pathogen[ P03383] interacts with 1 human partners: {Q9H1Y0}

32208 Pathogen[ P03410] interacts with 2 human partners: {Q9H1Y0; P30793}

32209 Pathogen[ P14075] interacts with 2 human partners: {Q9H1Y0; P30793}

32210 Pathogen[ P0C206] interacts with 2 human partners: {P30793; Q9H1Y0}

32211 Pathogen[ P03363] interacts with 1 human partners: {Q9H1Y0}



32212 [Cluster 2929]GO:0021877+P biological\_process [name] forebrain neuron fate commitment [def] "The process in which the developmental fate of a cell becomes restricted such that it will develop into a neuron that resides in the forebrain." [GO\_REF

32213 Pathogen[ Q2Q067] interacts with 1 human partners:{Q92754}

32214 Pathogen[ P0C214] interacts with 1 human partners:{Q92754}

32215 Pathogen[ P03346] interacts with 1 human partners:{Q92754}

32216 Pathogen[ Q85601] interacts with 1 human partners:{Q92754}

32217 Pathogen[ P14079] interacts with 1 human partners:{Q92754}

32218 Pathogen[ P03383] interacts with 1 human partners:{Q92754}

32219 Pathogen[ P03410] interacts with 1 human partners:{Q92754}

32220 Pathogen[ P14075] interacts with 1 human partners:{Q92754}

32221 Pathogen[ P0C206] interacts with 1 human partners:{Q92754}

32222 Pathogen[ P03363] interacts with 1 human partners:{Q92754}

32223 [Cluster 2930]GO:0071260+P biological\_process [name] cellular response to mechanical stimulus [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a mechanical stimulus." [GOC

32224 Pathogen[ Q2Q067] interacts with 14 human partners:{O95999;O14757;Q13158;Q14790;P24522;P10914;Q13233;P42575;Q15327;P78560;P19838;Q12983;Q5JVS0;Q9UKL3}

32225 Pathogen[ P0C214] interacts with 15 human partners:{Q15327;Q5JVS0;P24522;P19838;Q92934;Q13158;P10914;Q13233;Q9UKL3;O95999;Q12983;P78560;O14757;P42575;Q14790}

32226 Pathogen[ P03346] interacts with 15 human partners:{Q13158;P42575;Q15327;O14757;Q12983;O95999;P78560;Q9UKL3;P10914;Q13233;Q5JVS0;Q14790;P45985;P19838;P24522}

32227 Pathogen[ Q85601] interacts with 14 human partners:{Q9UKL3;Q5JVS0;Q13158;Q14790;P24522;P10914;O14757;P42575;Q15327;Q12983;Q13233;O95999;P19838;P78560}

32228 Pathogen[ P14079] interacts with 17 human partners:{Q5JVS0;O95999;P13498;P45983;Q9UKL3;Q14790;Q92934;P45985;P11686;P24522;Q12983;Q15327;Q13158;Q99439;P42575;Q99836;P10914}

32229 Pathogen[ P03383] interacts with 12 human partners:{P10914;Q5JVS0;O14757;Q9UKL3;Q13233;P24522;Q13158;Q12983;P78560;O95999;Q15327;P19838}

32230 Pathogen[ P03410] interacts with 17 human partners:{P19838;Q12983;P78560;P42575;P24522;Q92934;Q13233;Q15327;Q13158;O95999;P45985;P11686;Q99439;Q5JVS0;P10914;O14757;Q9UKL3}

32231 Pathogen[ P14075] interacts with 12 human partners:{P78560;Q12983;Q15327;Q9UKL3;Q5JVS0;Q13158;O95999;P24522;P19838;Q13233;P10914;O14757}

32232 Pathogen[ P0C206] interacts with 15 human partners:{P10914;P24522;Q15327;Q9UKL3;P78560;O95999;Q13158;Q13233;Q92934;Q12983;P19838;Q5JVS0;Q14790;P45985;P42575}

32233 Pathogen[ P03363] interacts with 10 human partners:{Q13158;Q15327;Q5JVS0;Q9UKL3;P24522;P10914;P78560;P19838;Q13233;O14757}

32234 [Cluster 2931]GO:0010834+P biological\_process [name] telomere maintenance via telomere shortening [def] "Any process that contributes to the maintenance of proper telomeric length and structure by affecting and monitoring the activity of telomeric proteins and shortening the telomeric DNA." [GOC

32235 Pathogen[ Q2Q067] interacts with 3 human partners:{Q92889;Q15554;P54274}

32236 Pathogen[ P0C214] interacts with 3 human partners:{Q92889;Q15554;P54274}

32237 Pathogen[ P03346] interacts with 3 human partners:{Q15554;P54274;Q92889}

32238 Pathogen[ Q85601] interacts with 3 human partners:{Q15554;Q92889;P54274}

32239 Pathogen[ P14079] interacts with 3 human partners:{P54274;Q92889;Q15554}

32240 Pathogen[ P03383] interacts with 2 human partners:{Q15554;P54274}

32241 Pathogen[ P03410] interacts with 3 human partners:{Q15554;P54274;Q92889}

32242 Pathogen[ P14075] interacts with 2 human partners:{Q15554;P54274}

32243 Pathogen[ P0C206] interacts with 3 human partners:{Q15554;P54274;Q92889}

32244 Pathogen[ P03363] interacts with 3 human partners:{Q15554;Q92889;P54274}

32245 [Cluster 2932]GO:0048133+P biological\_process [name] male germ-line stem cell division [def] "The self-renewing division of a germline stem cell in the male gonad, to produce a daughter stem cell and a daughter germ cell, which will divide to form the male gametes." [GOC

32246 Pathogen[ Q2Q067] interacts with 2 human partners:{Q05516;Q9H160}

32247 Pathogen[ P0C214] interacts with 2 human partners:{Q9H160;Q05516}

32248 Pathogen[ P03346] interacts with 2 human partners:{Q05516;Q9H160}

32249 Pathogen[ Q85601] interacts with 2 human partners:{Q05516;Q9H160}

32250 Pathogen[ P14079] interacts with 2 human partners:{Q05516;Q9H160}

32251 Pathogen[ P03383] interacts with 2 human partners:{Q05516;Q9H160}

32252 Pathogen[ P03410] interacts with 1 human partners:{Q9H160}

32253 Pathogen[ P14075] interacts with 2 human partners:{Q05516;Q9H160}

32254 Pathogen[ P0C206] interacts with 2 human partners:{Q05516;Q9H160}

32255 Pathogen[ P03363] interacts with 2 human partners:{Q9H160;Q05516}

32256 [Cluster 2933]GO:0071345+P biological\_process [name] cellular response to cytokine stimulus [def] "Any process that results in a change in state or activity of a cell

(in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a cytokine stimulus." [GOC

32257 Pathogen[ Q2Q067] interacts with 3 human partners:{P50750;Q7Z2X4;P08397}

32258 Pathogen[ P0C214] interacts with 3 human partners:{P50750;Q7Z2X4;P08397}

32259 Pathogen[ P03346] interacts with 3 human partners:{Q7Z2X4;P78426;P50750}

32260 Pathogen[ Q85601] interacts with 3 human partners:{P50750;Q7Z2X4;P08397}

32261 Pathogen[ P14079] interacts with 3 human partners:{P08397;Q7Z2X4;P50750}

32262 Pathogen[ P03383] interacts with 2 human partners:{P50750;P08397}

32263 Pathogen[ P03410] interacts with 3 human partners:{P08397;P50750;Q7Z2X4}

32264 Pathogen[ P14075] interacts with 2 human partners:{P50750;P08397}

32265 Pathogen[ P0C206] interacts with 3 human partners:{Q7Z2X4;P50750;P08397}

32266 Pathogen[ P03363] interacts with 1 human partners:{P50750}

32267 [Cluster 2934]GO:0032465+P biological\_process [name] regulation of cytokinesis [def] "Any process that modulates the frequency, rate or extent of the division of the cytoplasm of a cell and its separation into two daughter cells." [GOC

32268 Pathogen[ Q2Q067] interacts with 5 human partners:{O75400;O43303;Q13526;P41208;Q9NR09}

32269 Pathogen[ P0C214] interacts with 6 human partners:{Q13526;O43303;P41208;Q9NR09;Q96GD0;O75400}

32270 Pathogen[ P03346] interacts with 6 human partners:{O75400;Q13526;P41208;P51587;Q9NR09;O43303}

32271 Pathogen[ Q85601] interacts with 6 human partners:{O75400;O43303;Q13526;Q9NR09;P51587;P41208}

32272 Pathogen[ P14079] interacts with 7 human partners:{O75400;P51587;Q96GD0;Q9NR09;O43303;P41208;Q13526}

32273 Pathogen[ P03383] interacts with 5 human partners:{O43303;P41208;O75400;Q9NR09;Q13526}

32274 Pathogen[ P03410] interacts with 7 human partners:{O43303;Q13526;Q96GD0;Q9NR09;O75400;P51587;P41208}

32275 Pathogen[ P14075] interacts with 5 human partners:{O43303;O75400;Q13526;P41208;Q9NR09}

32276 Pathogen[ P0C206] interacts with 7 human partners:{Q13526;P51587;Q9NR09;O75400;P41208;Q96GD0;O43303}

32277 Pathogen[ P03363] interacts with 5 human partners:{O43303;P41208;Q13526;O75400;Q9NR09}

32278 [Cluster 2935]GO:0010807+P biological\_process [name] regulation of synaptic vesicle priming [def] "Any process that modulates the frequency, rate or extent of synaptic vesicle priming. Synaptic vesicle priming is the formation of SNARE-containing complexes, bringing synaptic vesicle membrane and plasma membranes into close proximity and thereby facilitating membrane fusion." [GOC

32279 Pathogen[ Q2Q067] interacts with 1 human partners:{P54920}

32280 Pathogen[ P0C214] interacts with 1 human partners:{P54920}

32281 Pathogen[ P03346] interacts with 2 human partners:{Q9H115;P54920}

32282 Pathogen[ Q85601] interacts with 1 human partners:{P54920}

32283 Pathogen[ P14079] interacts with 2 human partners:{Q9H115;P54920}

32284 Pathogen[ P03383] interacts with 1 human partners:{P54920}

32285 Pathogen[ P03410] interacts with 2 human partners:{Q9H115;P54920}

32286 Pathogen[ P14075] interacts with 1 human partners:{P54920}

32287 Pathogen[ P0C206] interacts with 1 human partners:{P54920}

32288 Pathogen[ P03363] interacts with 1 human partners:{P54920}

32289 [Cluster 2936]GO:0048738+P biological\_process [name] cardiac muscle tissue development [def] "The process whose specific outcome is the progression of cardiac muscle over time, from its formation to the mature structure." [GOC

32290 Pathogen[ Q2Q067] interacts with 3 human partners:{Q8WW38;O75182;P26678}

32291 Pathogen[ P0C214] interacts with 3 human partners:{Q8WW38;P26678;O75182}

32292 Pathogen[ P03346] interacts with 3 human partners:{Q8WW38;P26678;O75182}

32293 Pathogen[ Q85601] interacts with 2 human partners:{O75182;Q8WW38}

32294 Pathogen[ P14079] interacts with 3 human partners:{O75182;P26678;Q8WW38}

32295 Pathogen[ P03383] interacts with 3 human partners:{O75182;Q8WW38;P26678}

32296 Pathogen[ P03410] interacts with 4 human partners:{O75182;Q8WW38;P26678;Q16635}

32297 Pathogen[ P14075] interacts with 3 human partners:{Q8WW38;O75182;P26678}

32298 Pathogen[ P0C206] interacts with 4 human partners:{Q8WW38;P50461;P26678;O75182}

32299 Pathogen[ P03363] interacts with 2 human partners:{Q8WW38;O75182}

32300 [Cluster 2937]GO:0010801+P biological\_process [name] negative regulation of peptidyl-threonine phosphorylation [def] "Any process that decreases the frequency, rate or extent of peptidyl-threonine phosphorylation. Peptidyl-threonine phosphorylation is the phosphorylation of peptidyl-threonine to form peptidyl-O-phospho-L-threonine." [GOC

32301 Pathogen[ Q2Q067] interacts with 2 human partners:{O15105;Q7Z699}

32302 Pathogen[ P0C214] interacts with 2 human partners:{Q7Z699;O15105}

32303 Pathogen[ P03346] interacts with 2 human partners:{O15105;Q7Z699}

32304 Pathogen[ Q85601] interacts with 2 human partners:{O15105;Q7Z699}

32305 Pathogen[ P14079] interacts with 4 human partners:{O43597;Q7Z699;Q9NX09;O15105}

32306 Pathogen[ P03383] interacts with 1 human partners:{O15105}

32307 Pathogen[ P03410] interacts with 4 human partners:{O43597;Q7Z699;O15105;Q9NX09}

32308 Pathogen[ P14075] interacts with 1 human partners:{O15105}

32309 Pathogen[ P0C206] interacts with 3 human partners:{O15105;O43597;Q7Z699}

32310 Pathogen[ P03363] interacts with 2 human partners:{O15105;Q7Z699}

32311 [Cluster 2938]GO:0019430+P biological\_process [name] removal of superoxide radicals [def] "Any process involved in removing superoxide radicals (O<sub>2</sub><sup>-</sup>) from a cell or organism, e.g. by conversion to dioxygen (O<sub>2</sub>) and hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>)." [CHEBI

32312 Pathogen[ Q2Q067] interacts with 3 human partners:{O14618;Q00597;Q06830}

32313 Pathogen[ P0C214] interacts with 4 human partners:{P08294;Q00597;Q06830;O14618}

32314 Pathogen[ P03346] interacts with 3 human partners:{O14618;Q06830;Q00597}

32315 Pathogen[ Q85601] interacts with 3 human partners:{Q00597;Q06830;O14618}

32316 Pathogen[ P14079] interacts with 2 human partners:{Q00597;O14618}

32317 Pathogen[ P03383] interacts with 1 human partners:{Q00597}

32318 Pathogen[ P03410] interacts with 3 human partners:{Q00597;O14618;Q06830}

32319 Pathogen[ P14075] interacts with 1 human partners:{Q00597}

32320 Pathogen[ P0C206] interacts with 3 human partners:{O14618;Q00597;Q06830}

32321 Pathogen[ P03363] interacts with 2 human partners:{Q00597;O14618}

32322 [Cluster 2939]GO:0033342+P biological\_process [name] negative regulation of collagen binding [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of collagen binding." [GOC

32323 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BZE4}

32324 Pathogen[ P0C214] interacts with 1 human partners:{Q9BZE4}

32325 Pathogen[ P03346] interacts with 1 human partners:{Q9BZE4}

32326 Pathogen[ Q85601] interacts with 1 human partners:{Q9BZE4}

32327 Pathogen[ P14079] interacts with 1 human partners:{Q9BZE4}

32328 Pathogen[ P03383] interacts with 1 human partners:{Q9BZE4}

32329 Pathogen[ P03410] interacts with 1 human partners:{Q9BZE4}

32330 Pathogen[ P14075] interacts with 1 human partners:{Q9BZE4}

32331 Pathogen[ P0C206] interacts with 1 human partners:{Q9BZE4}

32332 Pathogen[ P03363] interacts with 1 human partners:{Q9BZE4}

32333 [Cluster 2940]GO:0010255+P biological\_process [name] glucose mediated signaling pathway [def] "The process in which a change in the level of mono- and disaccharide glucose trigger the expression of genes controlling metabolic and developmental processes." [GOC

32334 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NP71}

32335 Pathogen[ P0C214] interacts with 1 human partners:{Q9NP71}

32336 Pathogen[ P03346] interacts with 1 human partners:{Q9NP71}

32337 Pathogen[ Q85601] interacts with 1 human partners:{Q9NP71}

32338 Pathogen[ P14079] interacts with 1 human partners:{Q9NP71}

32339 Pathogen[ P03383] interacts with 1 human partners:{Q9NP71}

32340 Pathogen[ P03410] interacts with 1 human partners:{Q9NP71}

32341 Pathogen[ P14075] interacts with 1 human partners:{Q9NP71}

32342 Pathogen[ P0C206] interacts with 1 human partners:{Q9NP71}

32343 Pathogen[ P03363] interacts with 1 human partners:{Q9NP71}

32344 [Cluster 2941]GO:0030490+P biological\_process [name] maturation of SSU-rRNA [def] "Any process involved in the maturation of a precursor Small SubUnit (SSU) ribosomal RNA (rRNA) molecule into a mature SSU-rRNA molecule." [GOC

32345 Pathogen[ Q2Q067] interacts with 1 human partners:{P62263}

32346 Pathogen[ P0C214] interacts with 1 human partners:{P62263}

32347 Pathogen[ P03346] interacts with 1 human partners:{P62263}

32348 Pathogen[ Q85601] interacts with 1 human partners:{P62263}

32349 Pathogen[ P14079] interacts with 1 human partners:{P62263}

32350 Pathogen[ P03383] interacts with 1 human partners:{P62263}

32351 Pathogen[ P03410] interacts with 1 human partners:{P62263}

32352 Pathogen[ P14075] interacts with 1 human partners:{P62263}

32353 Pathogen[ P0C206] interacts with 1 human partners:{P62263}

32354 Pathogen[ P03363] interacts with 1 human partners:{P62263}

32355 [Cluster 2942]GO:0060155+P biological\_process [name] platelet dense granule organization [def] "A process that is carried out at the cellular level which results in the assembly, arrangement of constituent parts, or disassembly of a platelet dense granule. A platelet dense granule is an electron-dense granule occurring in blood platelets that stores and secretes adenosine nucleotides and serotonin. They contain a highly condensed core consisting of serotonin, histamine, calcium, magnesium, ATP, ADP, pyrophosphate and membrane lysosomal proteins." [GOC

32356 Pathogen[ Q2Q067] interacts with 4 human partners:{Q6QNY0;Q96EV8;Q6QNY1;P78537}

32357 Pathogen[ P0C214] interacts with 4 human partners:{P78537;Q6QNY0;Q96EV8;Q6QNY1}

32358 Pathogen[ P03346] interacts with 4 human partners:{Q6QNY0;P78537;Q96EV8;Q6QNY1}

32359 Pathogen[ Q85601] interacts with 4 human partners:{Q6QNY0;P78537;Q96EV8;Q6QNY1}

32360 Pathogen[ P14079] interacts with 4 human partners:{Q6QNY0;Q96EV8;Q6QNY1;P78537}

32361 Pathogen[ P03383] interacts with 4 human partners:{Q6QNY0;P78537;Q96EV8;Q6QNY1}

32362 Pathogen[ P03410] interacts with 4 human partners:{P78537;Q6QNY1;Q6QNY0;Q96EV8}

32363 Pathogen[ P14075] interacts with 4 human partners:{P78537;Q6QNY1;Q6QNY0;Q96EV8}

32364 Pathogen[ P0C206] interacts with 4 human partners:{P78537;Q6QNY1;Q96EV8;Q6QNY0}

32365 Pathogen[ P03363] interacts with 3 human partners:{P78537;Q6QNY1;Q6QNY0}

32366 [Cluster 2943]GO:0003208+P biological\_process [name] cardiac ventricle morphogenesis [def] "The process in which the cardiac ventricle is generated and organized. A cardiac ventricle receives blood from a cardiac atrium and pumps it out of the heart." [GOC

32367 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9NQ87;Q9Y5J3}

32368 Pathogen[ P0C214] interacts with 2 human partners:{Q9Y5J3;Q9NQ87}  
32369 Pathogen[ P03346] interacts with 2 human partners:{Q9Y5J3;Q9NQ87}  
32370 Pathogen[ Q85601] interacts with 2 human partners:{Q9NQ87;Q9Y5J3}  
32371 Pathogen[ P14079] interacts with 2 human partners:{Q9Y5J3;Q9NQ87}  
32372 Pathogen[ P03383] interacts with 1 human partners:{Q9NQ87}  
32373 Pathogen[ P03410] interacts with 2 human partners:{Q9Y5J3;Q9NQ87}  
32374 Pathogen[ P14075] interacts with 1 human partners:{Q9NQ87}  
32375 Pathogen[ P0C206] interacts with 2 human partners:{Q9NQ87;Q9Y5J3}  
32376 Pathogen[ P03363] interacts with 2 human partners:{Q9Y5J3;Q9NQ87}  
32377 [Cluster 2944]GO:0042637+P biological\_process [name] catagen [def] "The regression phase of the hair cycle during which cell proliferation ceases, the hair follicle shortens, and an anchored club hair is produced." [PMID  
32378 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UMQ3}  
32379 Pathogen[ P0C214] interacts with 1 human partners:{Q9UMQ3}  
32380 Pathogen[ P03346] interacts with 1 human partners:{Q9UMQ3}  
32381 Pathogen[ Q85601] interacts with 1 human partners:{Q9UMQ3}  
32382 Pathogen[ P14079] interacts with 1 human partners:{Q9UMQ3}  
32383 Pathogen[ P03383] interacts with 1 human partners:{Q9UMQ3}  
32384 Pathogen[ P03410] interacts with 1 human partners:{Q9UMQ3}  
32385 Pathogen[ P14075] interacts with 1 human partners:{Q9UMQ3}  
32386 Pathogen[ P0C206] interacts with 1 human partners:{Q9UMQ3}  
32387 Pathogen[ P03363] interacts with 1 human partners:{Q9UMQ3}  
32388 [Cluster 2945]GO:0009636+P biological\_process [name] response to toxin [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a toxin stimulus." [GOC  
32389 Pathogen[ Q2Q067] interacts with 12 human partners:{P01100;Q7Z5K2;O60356;P11831;P14635;P15559;Q03468;P38936;O14920;P16455;Q13867;P23025}  
32390 Pathogen[ P0C214] interacts with 14 human partners:{P23025;Q13867;P01100;P11831;P14635;P38936;O60356;P16455;Q7Z5K2;P40692;P15559;O14920;Q03468;Q6IB77}  
32391 Pathogen[ P03346] interacts with 13 human partners:{Q86UT5;Q7Z5K2;P11831;P15559;P14635;Q03468;Q13867;O60356;P23025;O95050;O14920;P38936;P01100}  
32392 Pathogen[ Q85601] interacts with 13 human partners:{P11831;P23025;P16455;Q13867;P01100;Q7Z5K2;Q03468;P14635;O14920;Q6IB77;O60356;P38936;P40692}  
32393 Pathogen[ P14079] interacts with 15 human partners:{Q86UT5;P40692;P16455;P15559;P23025;P02686;P14635;Q6IB77;P38936;Q13867;Q03468;O60356;Q7Z5K2;P01100;O95050}  
32394 Pathogen[ P03383] interacts with 9 human partners:{P11831;O14920;P14635;Q03468;P23025;Q13867;P01100;Q7Z5K2;O60356}  
32395 Pathogen[ P03410] interacts with 17 human partners:{P15559;Q86UT5;P23025;P11831;P40692;O14920;Q7Z5K2;Q6IB77;P02686;Q13867;O95050;Q03468;P01100;P14635;P38936;P16455;O60356}  
32396 Pathogen[ P14075] interacts with 10 human partners:{P23025;P11831;P14635;P15559;Q03468;O14920;Q7Z5K2;O60356;Q13867;P01100}  
32397 Pathogen[ P0C206] interacts with 15 human partners:{O14920;P40692;P15559;Q7Z5K2;Q03468;Q86UT5;Q13867;O60356;P01100;Q6IB77;P38936;P11831;P14635;P16455;P23025}  
32398 Pathogen[ P03363] interacts with 10 human partners:{O14920;O60356;O95050;P23025;Q13867;P11831;Q86UT5;Q03468;Q7Z5K2;P01100}  
32399 [Cluster 2946]GO:0070646+P biological\_process [name] protein modification by small protein removal [def] "A protein modification process in which one or more covalently attached groups of a small protein, such as ubiquitin or a ubiquitin-like protein, are removed from a target protein." [GOC  
32400 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9GZR1}  
32401 Pathogen[ P0C214] interacts with 1 human partners:{Q9GZR1}  
32402 Pathogen[ P03346] interacts with 1 human partners:{Q9GZR1}  
32403 Pathogen[ Q85601] interacts with 1 human partners:{Q9GZR1}  
32404 Pathogen[ P14079] interacts with 1 human partners:{Q9GZR1}  
32405 Pathogen[ P03383] interacts with 1 human partners:{Q9GZR1}  
32406 Pathogen[ P03410] interacts with 1 human partners:{Q9GZR1}  
32407 Pathogen[ P14075] interacts with 1 human partners:{Q9GZR1}  
32408 Pathogen[ P0C206] interacts with 1 human partners:{Q9GZR1}  
32409 Pathogen[ P03363] interacts with 1 human partners:{Q9GZR1}  
32410 [Cluster 2947]GO:0070602+P biological\_process [name] regulation of centromeric sister chromatid cohesion [def] "Any process that modulates the frequency, rate or extent of sister chromatid cohesion in the centromeric region of a chromosome." [GOC  
32411 Pathogen[ Q2Q067] interacts with 1 human partners:{P49711}  
32412 Pathogen[ P0C214] interacts with 1 human partners:{P49711}  
32413 Pathogen[ P03346] interacts with 1 human partners:{P49711}  
32414 Pathogen[ Q85601] interacts with 1 human partners:{P49711}  
32415 Pathogen[ P14079] interacts with 1 human partners:{P49711}  
32416 Pathogen[ P03383] interacts with 1 human partners:{P49711}

32417 Pathogen[ P03410] interacts with 1 human partners:{P49711}

32418 Pathogen[ P14075] interacts with 1 human partners:{P49711}

32419 Pathogen[ P0C206] interacts with 1 human partners:{P49711}

32420 Pathogen[ P03363] interacts with 1 human partners:{P49711}

32421 [Cluster 2948]GO:0001578+P biological\_process [name] microtubule bundle formation [def] "A process that results in a parallel arrangement of microtubules." [GOC

32422 Pathogen[ Q2Q067] interacts with 5 human partners:{Q7Z460;Q96SN8;O94811;Q6PGN9;Q66K74}

32423 Pathogen[ P0C214] interacts with 5 human partners:{O94811;Q96SN8;Q6PGN9;Q7Z460;Q66K74}

32424 Pathogen[ P03346] interacts with 9 human partners:{Q66K74;Q96SN8;Q8N841;Q6PGN9;P11137;O94811;P30622;Q7Z460;Q9UBP0}

32425 Pathogen[ Q85601] interacts with 8 human partners:{Q6PGN9;Q9UBP0;Q96SN8;P30622;Q66K74;O94811;Q9BW30;Q7Z460}

32426 Pathogen[ P14079] interacts with 10 human partners:{Q7Z460;Q66K74;O94811;Q8N841;Q6PGN9;Q9BW30;P11137;O95235;Q96SN8;P30622}

32427 Pathogen[ P03383] interacts with 4 human partners:{Q7Z460;Q96SN8;O94811;Q6PGN9}

32428 Pathogen[ P03410] interacts with 9 human partners:{Q7Z460;P11137;P30622;Q96SN8;O94811;Q9BW30;Q66K74;Q6PGN9;Q8N841}

32429 Pathogen[ P14075] interacts with 4 human partners:{O94811;Q7Z460;Q96SN8;Q6PGN9}

32430 Pathogen[ P0C206] interacts with 10 human partners:{Q96SN8;Q9UBP0;O94811;Q6PGN9;P30622;Q66K74;P11137;Q8N841;Q7Z460;Q9BW30}

32431 Pathogen[ P03363] interacts with 10 human partners:{P11137;Q66K74;O94811;Q8NHY3;Q6PGN9;Q9BW30;P30622;Q7Z460;Q8N841;Q96SN8}

32432 [Cluster 2949]GO:0019043+P biological\_process [name] establishment of viral latency [def] "The process in which a virus reaches a latent state." [ISBN

32433 Pathogen[ Q2Q067] interacts with 1 human partners:{Q92985}

32434 Pathogen[ P0C214] interacts with 1 human partners:{Q92985}

32435 Pathogen[ P03346] interacts with 1 human partners:{Q92985}

32436 Pathogen[ Q85601] interacts with 1 human partners:{Q92985}

32437 Pathogen[ P14079] interacts with 1 human partners:{Q92985}

32438 Pathogen[ P03383] interacts with 1 human partners:{Q92985}

32439 Pathogen[ P03410] interacts with 1 human partners:{Q92985}

32440 Pathogen[ P14075] interacts with 1 human partners:{Q92985}

32441 Pathogen[ P0C206] interacts with 1 human partners:{Q92985}

32442 Pathogen[ P03363] interacts with 1 human partners:{Q92985}

32443 [Cluster 2950]GO:0032203+P biological\_process [name] telomere formation via telomerase [def] "The addition of telomeric repeats to a non-telomeric double-stranded DNA end by telomerase." [GOC

32444 Pathogen[ Q2Q067] interacts with 2 human partners:{O14746;Q9BUR4}

32445 Pathogen[ P0C214] interacts with 2 human partners:{O14746;Q9BUR4}

32446 Pathogen[ P03346] interacts with 3 human partners:{Q9BUR4;O14746;Q9NUX5}

32447 Pathogen[ Q85601] interacts with 2 human partners:{Q9BUR4;O14746}

32448 Pathogen[ P14079] interacts with 3 human partners:{O14746;Q9NUX5;Q9BUR4}

32449 Pathogen[ P03383] interacts with 2 human partners:{Q9BUR4;O14746}

32450 Pathogen[ P03410] interacts with 3 human partners:{Q9NUX5;O14746;Q9BUR4}

32451 Pathogen[ P14075] interacts with 2 human partners:{O14746;Q9BUR4}

32452 Pathogen[ P0C206] interacts with 3 human partners:{Q9BUR4;Q9NUX5;O14746}

32453 Pathogen[ P03363] interacts with 3 human partners:{Q9BUR4;O14746;Q9NUX5}

32454 [Cluster 2951]GO:0060421+P biological\_process [name] positive regulation of heart growth [def] "Any process that increases the rate or extent of heart growth. Heart growth is the increase in size or mass of the heart." [GOC

32455 Pathogen[ Q2Q067] interacts with 1 human partners:{P80723}

32456 Pathogen[ P0C214] interacts with 1 human partners:{P80723}

32457 Pathogen[ P03346] interacts with 1 human partners:{P80723}

32458 Pathogen[ Q85601] interacts with 1 human partners:{P80723}

32459 Pathogen[ P14079] interacts with 1 human partners:{P80723}

32460 Pathogen[ P03383] interacts with 1 human partners:{P80723}

32461 Pathogen[ P03410] interacts with 1 human partners:{P80723}

32462 Pathogen[ P14075] interacts with 1 human partners:{P80723}

32463 Pathogen[ P0C206] interacts with 1 human partners:{P80723}

32464 Pathogen[ P03363] interacts with 1 human partners:{P80723}

32465 [Cluster 2952]GO:0055005+P biological\_process [name] ventricular cardiac myofibril development [def] "The process whose specific outcome is the progression of the ventricular cardiac myofibril over time, from its formation to the mature structure. A cardiac myofibril is a myofibril specific to cardiac muscle cells." [GOC

32466 Pathogen[ Q2Q067] interacts with 1 human partners:{Q02078}

32467 Pathogen[ P0C214] interacts with 1 human partners:{Q02078}

32468 Pathogen[ P03346] interacts with 1 human partners:{Q02078}

32469 Pathogen[ Q85601] interacts with 1 human partners:{Q02078}

32470 Pathogen[ P14079] interacts with 1 human partners:{Q02078}

32471 Pathogen[ P03383] interacts with 1 human partners:{Q02078}

32472 Pathogen[ P03410] interacts with 1 human partners:{Q02078}

32473 Pathogen[ P14075] interacts with 1 human partners:{Q02078}

32474 Pathogen[ P0C206] interacts with 1 human partners:{Q02078}

32475 Pathogen[ P03363] interacts with 1 human partners:{Q02078}

32476 [Cluster 2953]GO:0016573+P biological\_process [name] histone acetylation [def] "The modification of a histone by the addition of an acetyl group." [GOC

32477 Pathogen[ Q2Q067] interacts with 19 human  
partners: {Q9Y4A5; Q9H9T3; Q15596; O14929; Q9UKN8; Q15542; Q6ZRS2; O75448; P35227; Q9H8E8; Q92831; Q92830; P35226; Q92993; Q8IZX4; O95983; Q92793; P21675; Q96EB1}

32478 Pathogen[ P0C214] interacts with 21 human  
partners: {Q92993; P35226; P35227; P21675; O14929; Q92793; Q6ZRS2; Q9UKN8; Q9Y232; Q15542; O95983; Q4LE28; Q8IZX4; Q9Y4A5; Q9H9T3; Q92831; O75448; Q92830; Q15596; Q96EB1; Q9H8E8}

32479 Pathogen[ P03346] interacts with 25 human  
partners: {Q15542; Q8WYB5; P35226; O95983; P35227; Q9H8E8; Q92831; Q9UKN8; Q4LE28; O75448; Q92830; Q92794; Q15596; Q9H9T3; Q9Y4A5; Q6ZRS2; P21675; Q9H7Z6; Q9Y232; Q8IZX4; O15516; Q92993; Q92793; Q96EB1; O14929}

32480 Pathogen[ Q85601] interacts with 22 human  
partners: {Q15542; Q9H9T3; Q9Y4A5; O15516; Q9H7Z6; O75448; Q92831; Q15596; O95983; Q8IZX4; Q9UKN8; Q92830; O14929; Q9H8E8; Q6ZRS2; Q96EB1; P21675; Q4LE28; P35226; Q92993; Q92793; P35227}

32481 Pathogen[ P14079] interacts with 19 human  
partners: {Q9Y4A5; Q8IZX4; Q15596; Q92830; Q9UKN8; Q92793; Q9H8E8; Q6ZRS2; Q96EB1; O75448; O14929; Q9H9T3; O60502; O95983; P35226; P35227; Q15542; Q92993; P21675}

32482 Pathogen[ P03383] interacts with 19 human  
partners: {P35227; Q9UKN8; Q92831; Q15596; Q9Y4A5; Q4LE28; Q15542; Q8IZX4; Q92993; Q96EB1; O75448; Q9H8E8; O14929; Q92830; O95983; P21675; Q9H9T3; Q92793; P35226}

32483 Pathogen[ P03410] interacts with 21 human  
partners: {Q92830; Q92831; Q8IZX4; O14929; P21675; O60502; Q9H9T3; Q96EB1; P35227; Q6ZRS2; Q92793; Q9Y4A5; O95983; Q4LE28; Q15596; Q9H8E8; Q15542; P35226; Q9UKN8; Q92993; O75448}

32484 Pathogen[ P14075] interacts with 19 human  
partners: {Q96EB1; P21675; Q15542; Q92831; O75448; Q9Y4A5; O14929; Q92993; Q4LE28; O95983; Q9H8E8; Q9H9T3; Q92793; P35226; Q9UKN8; Q92830; P35227; Q15596; Q8IZX4}

32485 Pathogen[ P0C206] interacts with 22 human  
partners: {Q9Y232; Q92830; Q9H9T3; O95983; P35226; Q6ZRS2; Q92993; Q92831; Q8IZX4; Q92793; O15516; Q9Y4A5; O14929; Q9UKN8; Q15542; Q15596; Q96EB1; O75448; Q9H7Z6; P21675; Q4LE28; P35227}

32486 Pathogen[ P03363] interacts with 20 human  
partners: {Q8IZX4; Q9H8E8; Q4LE28; P35227; Q92831; Q6ZRS2; Q15596; Q92830; P35226; Q96EB1; O95983; Q15542; O14929; Q92793; O75448; P21675; Q9Y4A5; Q9UKN8; Q9H9T3; Q92993}

32487 [Cluster 2954]GO:0007268+P biological\_process [name] synaptic transmission [def] "The process of communication from a neuron to a target (neuron, muscle, or secretory cell) across a synapse." [GOC

32488 Pathogen[ Q2Q067] interacts with 22 human  
partners: {O94973; P54252; O95782; P07196; O95295; Q13432; P63010; P11142; Q96CW1; Q12959; P78352; Q16143; Q92796; Q02410; Q99996; P62879; Q9UI32; O94925; Q9UPA5; O96018; Q00987; O14490}

32489 Pathogen[ P0C214] interacts with 24 human  
partners: {Q96CW1; O14490; O95295; Q00987; Q92796; Q9UM54; Q9UI32; O96018; P78352; P63010; P62879; Q12959; O94973; O94925; Q02410; Q16143; O95782; Q99996; P16220; P53680; P07196; P54252; Q13432; P11142}

32490 Pathogen[ P03346] interacts with 35 human  
partners: {O95166; O14490; O14908; P07196; Q96A65; P16220; Q12840; P63010; O95295; P78352; P53680; O95782; P11142; Q99767; Q02410; Q00987; P62879; Q92796; Q13432; Q9UI32; Q96CW1; Q16143; O96018; O94925; Q99996; Q15700; Q8TBZ2; P51513; P54257; O94973; P24666; Q9NRD5; P54252; Q9UPA5; Q12959}

32491 Pathogen[ Q85601] interacts with 29 human  
partners: {O14490; P62879; O94925; Q96A65; Q96CW1; P07196; O95295; O95166; Q99767; Q12840; P54252; P16220; P11142; Q9UPA5; P78352; O96018; P53680; Q92796; O94973; Q12959; Q99996; Q13432; Q02410; P63010; Q9UM54; Q9UI32; Q00987; Q16143; O95782}

32492 Pathogen[ P14079] interacts with 34 human  
partners: {Q96CW1; O14810; O95166; P11142; P54257; Q99996; Q15700; Q12840; Q02410; P24588; P54252; Q9UPA5; Q16143; Q9UM54; P07196; P02686; Q00987; O95782; O94925; O96018; O43612; P63010; Q9UI32; O95295; O94973; Q96A65; Q13432; P47874; Q92796; O14908; Q9Y4J8; P53680; O14490; Q99767}

32493 Pathogen[ P03383] interacts with 18 human  
partners: {O96018; Q96CW1; P62879; O94925; P16220; O95295; O14490; Q13432; P54252; P63010; P07196; O95782; P11142; Q02410; Q99996; Q92796; O94973; P78352}

32494 Pathogen[ P03410] interacts with 40 human  
partners: {O96018; O95782; Q96CW1; P53680; O43612; Q99996; Q12959; O14810; P02686; Q16143; O14908; P11142; Q99767; P54252; O14490; Q12840; O94925; Q02410; P07196; Q15700; O95295; O95166; Q9UM54; Q9NRD5; Q9UPA5; Q96A65; Q92796; P16220; P54257; P24666; P63010; Q9UI32; Q00987; Q13432; P78352; P62879; O94973; P47874; P24588; Q9Y4J8}

32495 Pathogen[ P14075] interacts with 19 human  
partners: {Q02410; P11142; O96018; O94973; Q96CW1; O95295; P62879; P54252; Q99996; O95782; O14490; Q92796; P63010; O94925; P78352; P07196; P16220; Q9UPA5; Q13432}

32496 Pathogen[ P0C206] interacts with 34 human  
partners: {P53680; P63010; Q9UM54; P78352; O94973; P07196; Q13432; P62879; P16220; Q15700; Q9UPA5; Q99996; Q96A65; P54252; Q99767; Q9Y4J8; P24666; O14490; O96018; Q96CW1; O14908; Q16143; Q12840; O95295; O95782; Q9UI32; O94925; Q92796; Q00987; Q9NRD5; P11142; Q12959; O95166; Q02410}

32497 Pathogen[ P03363] interacts with 32 human  
partners: {P62879; Q12959; O14908; Q99996; Q8TBZ2; Q96A65; P78352; O94925; P16220; P54252; Q15700; O94973; P07196; Q13432; Q02410; P63010; P54257; O95295; Q9UI32; O95782; Q9UPA5; O14490; Q92796; P51513; O96018; P24666; O95166; Q99767; Q16143; Q12840; P11142; Q96CW1}

32498 [Cluster 2955]GO:0006959+P biological\_process [name] humoral immune response [def]

"An immune response mediated through a body fluid." [GOC  
32499 Pathogen[ Q2Q067] interacts with 9 human  
partners:{P40306;O43734;Q16633;P09086;P19532;O43918;P35226;P06744;P19484}  
32500 Pathogen[ POC214] interacts with 10 human  
partners:{Q9Y5A9;P35226;Q8WV28;P19484;P40306;Q16633;O43734;P19532;O43918;P09086}  
32501 Pathogen[ P03346] interacts with 12 human  
partners:{P50219;P09086;O43918;P19484;P35226;O43734;P19532;Q02548;Q16633;P06744;Q8WV  
28;P40306}  
32502 Pathogen[ Q85601] interacts with 8 human  
partners:{P09086;P19484;P06744;P19532;Q16633;P40306;P35226;O43918}  
32503 Pathogen[ P14079] interacts with 13 human  
partners:{Q06413;P40306;P09086;Q16633;P06744;P19484;P19532;Q8WV28;P13232;P35226;O439  
18;Q9Y5A9;O43734}  
32504 Pathogen[ P03383] interacts with 8 human  
partners:{Q16633;P19484;O43734;P40306;P06744;O43918;P19532;P35226}  
32505 Pathogen[ P03410] interacts with 11 human  
partners:{P06744;Q8WV28;O43918;P19532;Q16633;P19484;P40306;O43734;Q9Y5A9;P35226;P132  
32}  
32506 Pathogen[ P14075] interacts with 8 human  
partners:{Q16633;P06744;O43918;P19484;O43734;P35226;P40306;P19532}  
32507 Pathogen[ POC206] interacts with 11 human  
partners:{P40306;P35226;Q02548;O43734;P19484;P19532;O43918;P06744;Q16633;P09086;Q9Y5  
A9}  
32508 Pathogen[ P03363] interacts with 11 human  
partners:{P06744;P09086;Q8WV28;P35226;Q16633;P19484;P19532;O43918;Q02548;O43734;P502  
19}  
32509 [Cluster 2956]GO:0006307+P biological\_process [name] DNA dealkylation involved in DNA  
repair [def] "The repair of alkylation damage, e.g. the removal of the alkyl group at  
the O6-position of guanine by O6-alkylguanine-DNA alkyltransferase (AGT)." [PMID  
32510 Pathogen[ Q2Q067] interacts with 5 human  
partners:{Q6NS38;P29372;Q8N3C0;Q96Q83;P16455}  
32511 Pathogen[ POC214] interacts with 5 human  
partners:{Q8N3C0;Q6NS38;P16455;P29372;Q96Q83}  
32512 Pathogen[ P03346] interacts with 3 human partners:{Q8N3C0;P29372;Q96Q83}  
32513 Pathogen[ Q85601] interacts with 5 human  
partners:{P16455;Q6NS38;Q96Q83;Q8N3C0;P29372}  
32514 Pathogen[ P14079] interacts with 5 human  
partners:{Q9C0B1;P29372;P16455;Q6NS38;Q96Q83}  
32515 Pathogen[ P03383] interacts with 2 human partners:{P29372;Q96Q83}  
32516 Pathogen[ P03410] interacts with 6 human  
partners:{Q8N3C0;Q96Q83;Q6NS38;P16455;Q9C0B1;P29372}  
32517 Pathogen[ P14075] interacts with 2 human partners:{Q96Q83;P29372}  
32518 Pathogen[ POC206] interacts with 5 human  
partners:{Q96Q83;Q6NS38;P16455;P29372;Q8N3C0}  
32519 Pathogen[ P03363] interacts with 3 human partners:{P29372;Q96Q83;Q8N3C0}  
32520 [Cluster 2957]GO:0060770+P biological\_process [name] negative regulation of epithelial  
cell proliferation involved in prostate gland development [def] "Any process that  
decreases the rate, frequency or extent of epithelial cell proliferation that  
contributes to the progression of the prostate gland over time." [GOC  
32521 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9BQA1;Q96CJ1;P46527}  
32522 Pathogen[ POC214] interacts with 2 human partners:{Q96CJ1;P46527}  
32523 Pathogen[ P03346] interacts with 3 human partners:{Q96CJ1;Q9BQA1;P46527}  
32524 Pathogen[ Q85601] interacts with 3 human partners:{Q96CJ1;Q9BQA1;P46527}  
32525 Pathogen[ P14079] interacts with 3 human partners:{Q96CJ1;Q9BQA1;P46527}  
32526 Pathogen[ P03383] interacts with 3 human partners:{Q9BQA1;Q96CJ1;P46527}  
32527 Pathogen[ P03410] interacts with 3 human partners:{P46527;Q9BQA1;Q96CJ1}  
32528 Pathogen[ P14075] interacts with 3 human partners:{Q9BQA1;P46527;Q96CJ1}  
32529 Pathogen[ POC206] interacts with 3 human partners:{Q9BQA1;Q96CJ1;P46527}  
32530 Pathogen[ P03363] interacts with 2 human partners:{Q9BQA1;Q96CJ1}  
32531 [Cluster 2958]GO:0080154+P biological\_process [name] regulation of fertilization  
[def] "Any process that modulates the rate, frequency or extent of fertilization.  
Fertilization is the union of gametes of opposite sexes during the process of sexual  
reproduction to form a zygote. It involves the fusion of the gametic nuclei (karyogamy)  
and cytoplasm (plasmogamy)." [GOC  
32532 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NVM9}  
32533 Pathogen[ POC214] interacts with 1 human partners:{Q9NVM9}  
32534 Pathogen[ P03346] interacts with 1 human partners:{Q9NVM9}  
32535 Pathogen[ Q85601] interacts with 1 human partners:{Q9NVM9}  
32536 Pathogen[ P14079] interacts with 1 human partners:{Q9NVM9}  
32537 Pathogen[ P03383] interacts with 1 human partners:{Q9NVM9}  
32538 Pathogen[ P03410] interacts with 1 human partners:{Q9NVM9}  
32539 Pathogen[ P14075] interacts with 1 human partners:{Q9NVM9}  
32540 Pathogen[ POC206] interacts with 1 human partners:{Q9NVM9}  
32541 Pathogen[ P03363] interacts with 1 human partners:{Q9NVM9}  
32542 [Cluster 2959]GO:0051580+P biological\_process [name] regulation of neurotransmitter  
uptake [def] "Any process that modulates the frequency, rate or extent of the directed

movement of a neurotransmitter into a neuron or glial cell." [GOC  
32543 Pathogen[ Q2Q067] interacts with 1 human partners:{P14136}  
32544 Pathogen[ P0C214] interacts with 1 human partners:{P14136}  
32545 Pathogen[ P03346] interacts with 1 human partners:{P14136}  
32546 Pathogen[ Q85601] interacts with 1 human partners:{P14136}  
32547 Pathogen[ P14079] interacts with 1 human partners:{P14136}  
32548 Pathogen[ P03383] interacts with 1 human partners:{P14136}  
32549 Pathogen[ P03410] interacts with 1 human partners:{P14136}  
32550 Pathogen[ P14075] interacts with 1 human partners:{P14136}  
32551 Pathogen[ P0C206] interacts with 1 human partners:{P14136}  
32552 Pathogen[ P03363] interacts with 1 human partners:{P14136}  
32553 [Cluster 2960]GO:0000289+P biological\_process [name] nuclear-transcribed mRNA poly(A)  
tail shortening [def] "Shortening of the poly(A) tail of a nuclear-transcribed mRNA from  
full length to an oligo(A) length." [GOC  
32554 Pathogen[ Q2Q067] interacts with 22 human  
partners:{P23588;Q96LI5;A5YKK6;Q9H074;P38919;O75175;Q14240;Q504Q3;Q9UIV1;Q9UKZ1;O956  
28;Q9UFF9;Q9C0C2;Q9NZN8;Q92600;Q04637;P26651;P06730;O95453;P11940;P60842;Q9ULM6}  
32555 Pathogen[ P0C214] interacts with 23 human  
partners:{Q9NZN8;O95453;P60842;O95628;P23588;Q9C0C2;Q504Q3;P11940;Q9UIV1;Q9ULM6;A5YK  
K6;P38919;Q9H074;Q14240;P26651;Q04637;Q9UKZ1;Q9UFF9;Q92600;P40692;Q96LI5;P06730;O751  
75}  
32556 Pathogen[ P03346] interacts with 23 human  
partners:{Q504Q3;Q9ULM6;P06730;Q9UIV1;O75175;Q9H9A5;Q9UKZ1;O95628;P38919;P11940;P608  
42;A5YKK6;Q9NZN8;O95453;Q9H074;Q14240;Q9C0C2;P23588;Q04637;Q9UFF9;P26651;Q96LI5;Q926  
00}  
32557 Pathogen[ Q85601] interacts with 23 human  
partners:{P06730;Q14240;Q9UKZ1;P23588;Q04637;Q9UIV1;Q9NZN8;Q9UFF9;Q92600;Q504Q3;P389  
19;P26651;P11940;Q96LI5;A5YKK6;O95628;O95453;Q9ULM6;P60842;Q9H074;Q9C0C2;P40692;O751  
75}  
32558 Pathogen[ P14079] interacts with 22 human  
partners:{O95628;P60842;Q92600;P06730;P40692;Q9UKZ1;Q96LI5;Q9H074;Q14240;A5YKK6;O954  
53;P23588;Q9C0C2;P11940;O75175;Q9UFF9;Q9UIV1;Q9H9A5;Q9ULM6;Q9NZN8;Q504Q3;Q04637}  
32559 Pathogen[ P03383] interacts with 19 human  
partners:{P38919;Q9UFF9;Q9C0C2;P11940;O95628;P23588;P06730;A5YKK6;Q9UIV1;Q92600;Q9UL  
M6;Q9H074;P26651;Q9NZN8;Q04637;Q9UKZ1;O95453;O75175;Q96LI5}  
32560 Pathogen[ P03410] interacts with 24 human  
partners:{Q96LI5;P40692;Q9NZN8;Q9UFF9;O95628;P11940;P06730;Q9ULM6;Q9C0C2;P26651;Q9UI  
V1;Q9H9A5;Q9H074;O95453;Q9UKZ1;P60842;O75175;P38919;Q92600;A5YKK6;Q04637;Q504Q3;P235  
88;Q14240}  
32561 Pathogen[ P14075] interacts with 19 human  
partners:{O95453;Q9ULM6;P23588;Q9UKZ1;P26651;Q92600;O75175;Q9H074;P06730;Q96LI5;Q9NZ  
N8;P11940;O95628;Q04637;Q9UFF9;Q9C0C2;P38919;Q9UIV1;A5YKK6}  
32562 Pathogen[ P0C206] interacts with 24 human  
partners:{Q9UFF9;Q9H074;Q504Q3;O95453;P26651;Q9NZN8;Q9UIV1;Q96LI5;P40692;O75175;Q9H9  
A5;O95628;P06730;A5YKK6;Q14240;Q9UKZ1;Q92600;Q9C0C2;P23588;Q04637;P38919;P60842;Q9UL  
M6;P11940}  
32563 Pathogen[ P03363] interacts with 22 human  
partners:{Q504Q3;P38919;O95628;O95453;A5YKK6;Q9UKZ1;P11940;Q9NZN8;P23588;Q9ULM6;Q142  
40;Q9C0C2;Q92600;Q96LI5;O75175;P60842;P26651;Q9UIV1;Q9UFF9;P06730;Q9H074;Q04637}  
32564 [Cluster 2961]GO:0030050+P biological\_process [name] vesicle transport along actin  
filament [def] "Movement of a vesicle along an actin filament, mediated by motor  
proteins." [GOC  
32565 Pathogen[ Q2Q067] interacts with 1 human partners:{000401}  
32566 Pathogen[ P0C214] interacts with 1 human partners:{000401}  
32567 Pathogen[ P03346] interacts with 1 human partners:{000401}  
32568 Pathogen[ Q85601] interacts with 1 human partners:{000401}  
32569 Pathogen[ P14079] interacts with 1 human partners:{000401}  
32570 Pathogen[ P03383] interacts with 1 human partners:{000401}  
32571 Pathogen[ P03410] interacts with 1 human partners:{000401}  
32572 Pathogen[ P14075] interacts with 1 human partners:{000401}  
32573 Pathogen[ P0C206] interacts with 1 human partners:{000401}  
32574 Pathogen[ P03363] interacts with 1 human partners:{000401}  
32575 [Cluster 2962]GO:0046498+P biological\_process [name] S-adenosylhomocysteine metabolic  
process [def] "The chemical reactions and pathways involving S-adenosylhomocysteine\_ the  
L-enantiomer is formed from S-adenosylmethionine and is a strong inhibitor of  
S-adenosylmethionine-mediated methylation reactions. It can be cleaved to form adenosine  
and homocysteine." [ISBN  
32576 Pathogen[ Q2Q067] interacts with 4 human partners:{Q9Y6K1;P22061;Q14749;Q9UBC3}  
32577 Pathogen[ P0C214] interacts with 3 human partners:{Q9Y6K1;P22061;Q14749}  
32578 Pathogen[ P03346] interacts with 4 human partners:{Q9Y6K1;P22061;Q9UBC3;Q14749}  
32579 Pathogen[ Q85601] interacts with 4 human partners:{Q9Y6K1;P22061;Q14749;Q9UBC3}  
32580 Pathogen[ P14079] interacts with 5 human  
partners:{Q9Y6K1;Q9UBC3;Q14749;Q14353;Q16625}  
32581 Pathogen[ P03383] interacts with 3 human partners:{Q9Y6K1;P22061;Q14749}  
32582 Pathogen[ P03410] interacts with 6 human  
partners:{Q14353;Q14749;Q16625;Q9UBC3;Q9Y6K1;P22061}



32583 Pathogen[ P14075] interacts with 3 human partners:{Q9Y6K1;P22061;Q14749}  
32584 Pathogen[ POC206] interacts with 4 human partners:{Q9Y6K1;P22061;Q14749;Q9UBC3}  
32585 Pathogen[ P03363] interacts with 3 human partners:{Q9Y6K1;Q14749;Q9UBC3}  
32586 [Cluster 2963]GO:0033522+P biological\_process [name] histone H2A ubiquitination  
[def] "The modification of histone H2A by addition of one or more ubiquitin groups."  
[GOC  
32587 Pathogen[ Q2Q067] interacts with 4 human partners:{Q8IYW8;P63146;O76064;P49459}  
32588 Pathogen[ POC214] interacts with 4 human partners:{Q8IYW8;P49459;O76064;P63146}  
32589 Pathogen[ P03346] interacts with 4 human partners:{O76064;P49459;P63146;Q8IYW8}  
32590 Pathogen[ Q85601] interacts with 4 human partners:{P63146;O76064;P49459;Q8IYW8}  
32591 Pathogen[ P14079] interacts with 3 human partners:{Q8IYW8;P49459;P63146}  
32592 Pathogen[ P03383] interacts with 3 human partners:{Q8IYW8;P49459;P63146}  
32593 Pathogen[ P03410] interacts with 3 human partners:{Q8IYW8;P49459;P63146}  
32594 Pathogen[ P14075] interacts with 3 human partners:{P49459;P63146;Q8IYW8}  
32595 Pathogen[ POC206] interacts with 4 human partners:{P49459;Q8IYW8;O76064;P63146}  
32596 Pathogen[ P03363] interacts with 3 human partners:{P49459;P63146;Q8IYW8}  
32597 [Cluster 2964]GO:0007181+P biological\_process [name] transforming growth factor beta  
receptor complex assembly [def] "The aggregation, arrangement and bonding together of  
a ligand-bound type II transforming growth factor beta (TGF-beta) receptor dimer with a  
type I TGF-beta receptor dimer, following ligand binding, to form a heterotetrameric  
TGF-beta receptor complex." [GOC  
32598 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8N6I1}  
32599 Pathogen[ POC214] interacts with 1 human partners:{Q8N6I1}  
32600 Pathogen[ P03346] interacts with 1 human partners:{Q8N6I1}  
32601 Pathogen[ Q85601] interacts with 1 human partners:{Q8N6I1}  
32602 Pathogen[ P14079] interacts with 1 human partners:{Q8N6I1}  
32603 Pathogen[ P03383] interacts with 1 human partners:{Q8N6I1}  
32604 Pathogen[ P03410] interacts with 1 human partners:{Q8N6I1}  
32605 Pathogen[ P14075] interacts with 1 human partners:{Q8N6I1}  
32606 Pathogen[ POC206] interacts with 1 human partners:{Q8N6I1}  
32607 Pathogen[ P03363] interacts with 1 human partners:{Q8N6I1}  
32608 [Cluster 2965]GO:0040019+P biological\_process [name] positive regulation of embryonic  
development [def] "Any process that activates or increases the frequency, rate or extent  
of embryonic development." [GOC  
32609 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9UI56;P49116}  
32610 Pathogen[ POC214] interacts with 3 human partners:{P32243;P49116;Q9UI56}  
32611 Pathogen[ P03346] interacts with 3 human partners:{P49116;Q9UI56;P32243}  
32612 Pathogen[ Q85601] interacts with 2 human partners:{P32243;P49116}  
32613 Pathogen[ P14079] interacts with 3 human partners:{Q9UI56;P32243;P49116}  
32614 Pathogen[ P03383] interacts with 3 human partners:{P32243;P49116;Q9UI56}  
32615 Pathogen[ P03410] interacts with 3 human partners:{Q9UI56;P32243;P49116}  
32616 Pathogen[ P14075] interacts with 3 human partners:{P49116;P32243;Q9UI56}  
32617 Pathogen[ POC206] interacts with 3 human partners:{P49116;P32243;Q9UI56}  
32618 Pathogen[ P03363] interacts with 3 human partners:{P49116;P32243;Q9UI56}  
32619 [Cluster 2966]GO:0071894+P biological\_process [name] histone H2B conserved C-terminal  
lysine ubiquitination [def] "A histone ubiquitination process in which a ubiquitin  
monomer is added to a conserved lysine residue in the C-terminus of histone H2B. The  
conserved lysine residue is K119 in fission yeast, K123 in budding yeast, or K120 in  
mammals." [GOC  
32620 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BTA9}  
32621 Pathogen[ POC214] interacts with 1 human partners:{Q9BTA9}  
32622 Pathogen[ P03346] interacts with 1 human partners:{Q9BTA9}  
32623 Pathogen[ Q85601] interacts with 1 human partners:{Q9BTA9}  
32624 Pathogen[ P14079] interacts with 1 human partners:{Q9BTA9}  
32625 Pathogen[ P03383] interacts with 1 human partners:{Q9BTA9}  
32626 Pathogen[ P03410] interacts with 1 human partners:{Q9BTA9}  
32627 Pathogen[ P14075] interacts with 1 human partners:{Q9BTA9}  
32628 Pathogen[ POC206] interacts with 1 human partners:{Q9BTA9}  
32629 Pathogen[ P03363] interacts with 1 human partners:{Q9BTA9}  
32630 [Cluster 2967]GO:0030501+P biological\_process [name] positive regulation of bone  
mineralization [def] "Any process that activates or increases the frequency, rate or  
extent of bone mineralization." [GOC  
32631 Pathogen[ Q2Q067] interacts with 1 human partners:{P84022}  
32632 Pathogen[ POC214] interacts with 1 human partners:{P84022}  
32633 Pathogen[ P03346] interacts with 3 human partners:{Q6UW56;P84022;Q92832}  
32634 Pathogen[ Q85601] interacts with 1 human partners:{P84022}  
32635 Pathogen[ P14079] interacts with 2 human partners:{Q06413;Q92832}  
32636 Pathogen[ P03383] interacts with 1 human partners:{P84022}  
32637 Pathogen[ P03410] interacts with 2 human partners:{P84022;Q92832}  
32638 Pathogen[ P14075] interacts with 1 human partners:{P84022}  
32639 Pathogen[ POC206] interacts with 3 human partners:{P84022;Q6UW56;Q92832}  
32640 Pathogen[ P03363] interacts with 3 human partners:{Q6UW56;Q92832;P84022}  
32641 [Cluster 2968]GO:0060339+P biological\_process [name] negative regulation of type I  
interferon-mediated signaling pathway [def] "Any process that decreases the rate,  
frequency or extent of a type I interferon-mediated signaling pathway. A type I  
interferon-mediated signaling pathway is the series of molecular events generated as a

consequence of a type I interferon binding to a cell surface receptor." [GOC  
32642 Pathogen[ Q2Q067] interacts with 2 human partners:{Q8WUQ7;Q86WI3}  
32643 Pathogen[ P0C214] interacts with 1 human partners:{Q86WI3}  
32644 Pathogen[ P03346] interacts with 2 human partners:{Q86WI3;Q8WUQ7}  
32645 Pathogen[ Q85601] interacts with 1 human partners:{Q86WI3}  
32646 Pathogen[ P14079] interacts with 2 human partners:{Q8WUQ7;Q86WI3}  
32647 Pathogen[ P03383] interacts with 2 human partners:{Q8WUQ7;Q86WI3}  
32648 Pathogen[ P03410] interacts with 2 human partners:{Q8WUQ7;Q86WI3}  
32649 Pathogen[ P14075] interacts with 2 human partners:{Q86WI3;Q8WUQ7}  
32650 Pathogen[ P0C206] interacts with 2 human partners:{Q86WI3;Q8WUQ7}  
32651 Pathogen[ P03363] interacts with 2 human partners:{Q8WUQ7;Q86WI3}  
32652 [Cluster 2969]GO:0032608+P biological\_process [name] interferon-beta production  
[def] "The appearance of interferon-beta due to biosynthesis or secretion following a  
cellular stimulus, resulting in an increase in its intracellular or extracellular  
levels." [GOC  
32653 Pathogen[ Q2Q067] interacts with 1 human partners:{Q92985}  
32654 Pathogen[ P0C214] interacts with 2 human partners:{Q92985;Q86WV6}  
32655 Pathogen[ P03346] interacts with 1 human partners:{Q92985}  
32656 Pathogen[ Q85601] interacts with 2 human partners:{Q86WV6;Q92985}  
32657 Pathogen[ P14079] interacts with 2 human partners:{Q92985;Q86WV6}  
32658 Pathogen[ P03383] interacts with 1 human partners:{Q92985}  
32659 Pathogen[ P03410] interacts with 2 human partners:{Q86WV6;Q92985}  
32660 Pathogen[ P14075] interacts with 1 human partners:{Q92985}  
32661 Pathogen[ P0C206] interacts with 2 human partners:{Q86WV6;Q92985}  
32662 Pathogen[ P03363] interacts with 1 human partners:{Q92985}  
32663 [Cluster 2970]GO:0033554+P biological\_process [name] cellular response to stress  
[def] "Any process that results in a change in state or activity of a cell (in terms of  
movement, secretion, enzyme production, gene expression, etc.) as a result of a stimulus  
indicating the organism is under stress. The stress is usually, but not necessarily,  
exogenous (e.g. temperature, humidity, ionizing radiation)." [GOC  
32664 Pathogen[ Q2Q067] interacts with 25 human  
partners:{P27540;O75340;O95391;P62837;P61077;P40337;Q15370;P51668;Q9Y2N7;Q9NWT6;Q153  
69;Q96KS0;Q9H6Z9;P0CG47;P0CG48;Q9GZT9;Q8IXT1;Q92793;P62987;P35900;Q99814;Q8TC71;Q136  
17;P62877;P62979}  
32665 Pathogen[ P0C214] interacts with 24 human  
partners:{Q13617;Q92793;Q96KS0;Q15370;O75340;P62877;P61077;Q9Y2N7;Q9H6Z9;Q8IXT1;P0CG  
48;Q15369;P40337;Q9GZT9;P62987;P0CG47;Q99814;P27540;Q8TC71;P51668;O95391;P62979;P359  
00;Q9NWT6}  
32666 Pathogen[ P03346] interacts with 27 human  
partners:{Q15370;P62987;Q8TC71;O95391;P0CG48;P27540;P51668;P61077;Q9BWF3;Q6ZPB5;P628  
77;O75340;Q9Y2N7;Q9GZT9;P62837;Q99814;P62979;P40337;Q15369;P0CG47;P35900;Q96KS0;Q8IX  
T1;Q9NWT6;Q92793;Q9H6Z9;Q13617}  
32667 Pathogen[ Q85601] interacts with 23 human  
partners:{Q15370;Q9H6Z9;Q9Y2N7;O95391;P62877;P40337;Q9NWT6;Q99814;P27540;P0CG48;P516  
68;P61077;Q9GZT9;Q96KS0;Q15369;O75340;P62979;P62837;P0CG47;P62987;P35900;Q92793;Q136  
17}  
32668 Pathogen[ P14079] interacts with 26 human  
partners:{Q9GZT9;P35900;Q99814;P0CG48;Q9Y2N7;Q92793;Q6ZPB5;P62979;P61077;P62877;P629  
87;Q8IXT1;P40337;P51668;Q9NWT6;O75340;P27540;Q9H6Z9;Q15370;Q13617;P62837;Q15369;P0CG  
47;Q96KS0;Q8TC71;O95391}  
32669 Pathogen[ P03383] interacts with 23 human  
partners:{Q8IXT1;Q15369;Q9NWT6;P27540;P62987;P40337;Q96KS0;Q6ZPB5;P61077;Q9Y2N7;Q9H6  
Z9;P62837;Q13617;P62979;P0CG47;Q8TC71;P62877;Q15370;P0CG48;O95391;Q92793;P35900;P516  
68}  
32670 Pathogen[ P03410] interacts with 26 human  
partners:{P0CG48;Q9NWT6;Q96KS0;Q9H6Z9;Q99814;Q9Y2N7;Q15370;P62979;Q9GZT9;P27540;Q927  
93;Q15369;P62877;Q8IXT1;Q8TC71;P51668;P62987;Q6ZPB5;P35900;Q13617;O75340;P0CG47;O953  
91;P40337;P61077;P62837}  
32671 Pathogen[ P14075] interacts with 24 human  
partners:{Q96KS0;Q8IXT1;Q9GZT9;P62837;O95391;Q9Y2N7;P61077;P27540;P0CG48;P62979;Q153  
70;P62987;Q9NWT6;Q8TC71;Q6ZPB5;P0CG47;Q92793;P35900;P40337;P51668;Q13617;Q15369;P628  
77;Q9H6Z9}  
32672 Pathogen[ P0C206] interacts with 26 human  
partners:{O75340;P0CG48;P62877;Q8TC71;Q9Y2N7;Q96KS0;Q9GZT9;Q8IXT1;P62837;Q92793;Q136  
17;Q9NWT6;P62979;Q15370;P0CG47;Q9H6Z9;P27540;Q6ZPB5;P61077;Q99814;P62987;O95391;Q153  
69;P51668;P35900;P40337}  
32673 Pathogen[ P03363] interacts with 21 human  
partners:{Q15370;P27540;O95391;O75340;Q9H6Z9;Q13617;Q15369;Q9BWF3;P40337;P35900;Q8TC  
71;P62877;Q9Y2N7;P62987;Q99814;Q92793;Q6ZPB5;P51668;P61077;P62837;Q8IXT1}  
32674 [Cluster 2971]GO:0048593+P biological\_process [name] camera-type eye morphogenesis  
[def] "The process in which the anatomical structures of the eye are generated and  
organized. The camera-type eye is an organ of sight that receives light through an  
aperture and focuses it through a lens, projecting it on a photoreceptor field." [GOC  
32675 Pathogen[ Q2Q067] interacts with 3 human partners:{P25490;P12755;Q06587}  
32676 Pathogen[ P0C214] interacts with 2 human partners:{Q06587;P12755}  
32677 Pathogen[ P03346] interacts with 3 human partners:{P25490;Q9HBG6;Q06587}

32678 Pathogen[ Q85601] interacts with 3 human partners:{P25490;P12755;Q06587}  
32679 Pathogen[ P14079] interacts with 3 human partners:{P12755;P25490;Q06587}  
32680 Pathogen[ P03383] interacts with 1 human partners:{Q06587}  
32681 Pathogen[ P03410] interacts with 4 human partners:{P12755;P25490;Q9HBG6;Q06587}  
32682 Pathogen[ P14075] interacts with 1 human partners:{Q06587}  
32683 Pathogen[ P0C206] interacts with 3 human partners:{P25490;P12755;Q06587}  
32684 Pathogen[ P03363] interacts with 3 human partners:{P25490;Q9HBG6;Q06587}  
32685 [Cluster 2972]GO:0006656+P biological\_process [name] phosphatidylcholine biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of phosphatidylcholines, any of a class of glycerophospholipids in which the phosphatidyl group is esterified to the hydroxyl group of choline." [ISBN  
32686 Pathogen[ Q2Q067] interacts with 2 human partners:{Q92539;Q14693}  
32687 Pathogen[ P0C214] interacts with 3 human partners:{Q92539;Q9BQK8;Q14693}  
32688 Pathogen[ P03346] interacts with 3 human partners:{Q01469;Q92539;Q14693}  
32689 Pathogen[ Q85601] interacts with 2 human partners:{Q92539;Q14693}  
32690 Pathogen[ P14079] interacts with 4 human partners:{Q9BQK8;Q14693;Q92539;Q01469}  
32691 Pathogen[ P03383] interacts with 2 human partners:{Q92539;Q14693}  
32692 Pathogen[ P03410] interacts with 4 human partners:{Q9BQK8;Q14693;Q01469;Q92539}  
32693 Pathogen[ P14075] interacts with 2 human partners:{Q92539;Q14693}  
32694 Pathogen[ P0C206] interacts with 4 human partners:{Q92539;Q9BQK8;Q01469;Q14693}  
32695 Pathogen[ P03363] interacts with 2 human partners:{Q92539;Q01469}  
32696 [Cluster 2973]GO:0048013+P biological\_process [name] ephrin receptor signaling pathway [def] "The series of molecular signals generated as a consequence of an ephrin receptor binding to an ephrin." [GOC  
32697 Pathogen[ Q2Q067] interacts with 2 human partners:{P46108;Q15532}  
32698 Pathogen[ P0C214] interacts with 2 human partners:{Q15532;P46108}  
32699 Pathogen[ P03346] interacts with 3 human partners:{Q15532;Q92625;P46108}  
32700 Pathogen[ Q85601] interacts with 2 human partners:{Q15532;P46108}  
32701 Pathogen[ P14079] interacts with 3 human partners:{Q15532;Q15078;P46108}  
32702 Pathogen[ P03383] interacts with 1 human partners:{Q15532}  
32703 Pathogen[ P03410] interacts with 2 human partners:{P46108;Q15532}  
32704 Pathogen[ P14075] interacts with 1 human partners:{Q15532}  
32705 Pathogen[ P0C206] interacts with 3 human partners:{Q15532;Q92625;P46108}  
32706 Pathogen[ P03363] interacts with 3 human partners:{Q15532;P46108;Q92625}  
32707 [Cluster 2974]GO:0040029+P biological\_process [name] regulation of gene expression, epigenetic [def] "Any process that modulates the frequency, rate or extent of gene expression\_ the process is mitotically or meiotically heritable, or is stably self-propagated in the cytoplasm of a resting cell, and does not entail a change in DNA sequence." [PMID  
32708 Pathogen[ Q2Q067] interacts with 2 human partners:{Q92990;P49711}  
32709 Pathogen[ P0C214] interacts with 1 human partners:{P49711}  
32710 Pathogen[ P03346] interacts with 2 human partners:{Q92990;P49711}  
32711 Pathogen[ Q85601] interacts with 1 human partners:{P49711}  
32712 Pathogen[ P14079] interacts with 2 human partners:{Q92990;P49711}  
32713 Pathogen[ P03383] interacts with 2 human partners:{P49711;Q92990}  
32714 Pathogen[ P03410] interacts with 2 human partners:{Q92990;P49711}  
32715 Pathogen[ P14075] interacts with 2 human partners:{Q92990;P49711}  
32716 Pathogen[ P0C206] interacts with 3 human partners:{Q92990;P49711;Q9UIG0}  
32717 Pathogen[ P03363] interacts with 2 human partners:{Q92990;P49711}  
32718 [Cluster 2975]GO:0010867+P biological\_process [name] positive regulation of triglyceride biosynthetic process [def] "Any process that increases the rate, frequency, or extent of triglyceride biosynthesis. Triglyceride biosynthesis is the collection of chemical reactions and pathways resulting in the formation of triglyceride, any triester of glycerol." [GOC  
32719 Pathogen[ Q2Q067] interacts with 4 human partners:{P36956;Q8N9A8;P55055;O95476}  
32720 Pathogen[ P0C214] interacts with 2 human partners:{Q8N9A8;O95476}  
32721 Pathogen[ P03346] interacts with 4 human partners:{P36956;Q8N9A8;O95476;P55055}  
32722 Pathogen[ Q85601] interacts with 4 human partners:{P55055;P36956;Q8N9A8;O95476}  
32723 Pathogen[ P14079] interacts with 4 human partners:{P55055;Q8N9A8;O95476;P36956}  
32724 Pathogen[ P03383] interacts with 1 human partners:{Q8N9A8}  
32725 Pathogen[ P03410] interacts with 3 human partners:{P36956;O95476;Q8N9A8}  
32726 Pathogen[ P14075] interacts with 1 human partners:{Q8N9A8}  
32727 Pathogen[ P0C206] interacts with 4 human partners:{P55055;P36956;O95476;Q8N9A8}  
32728 Pathogen[ P03363] interacts with 2 human partners:{Q8N9A8;O95476}  
32729 [Cluster 2976]GO:0071569+P biological\_process [name] protein ufmylation [def] "Covalent attachment of the ubiquitin-like protein UFM1 to another protein." [GOC  
32730 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9Y3C8;O94874;P61960}  
32731 Pathogen[ P0C214] interacts with 3 human partners:{Q9GZZ9;O94874;P61960}  
32732 Pathogen[ P03346] interacts with 3 human partners:{P61960;Q9Y3C8;O94874}  
32733 Pathogen[ Q85601] interacts with 1 human partners:{O94874}  
32734 Pathogen[ P14079] interacts with 3 human partners:{O94874;Q9Y3C8;P61960}  
32735 Pathogen[ P03383] interacts with 3 human partners:{Q9Y3C8;O94874;P61960}  
32736 Pathogen[ P03410] interacts with 3 human partners:{Q9Y3C8;O94874;P61960}  
32737 Pathogen[ P14075] interacts with 3 human partners:{P61960;Q9Y3C8;O94874}  
32738 Pathogen[ P0C206] interacts with 3 human partners:{Q9Y3C8;O94874;P61960}  
32739 Pathogen[ P03363] interacts with 3 human partners:{Q9Y3C8;P61960;O94874}

32740 [Cluster 2977]GO:0044130+P biological\_process [name] negative regulation of growth of symbiont in host [def] "Any process in which the symbiont stops, prevents or reduces its increase in size or mass within the cells or tissues of the host organism. The host is defined as the larger of the organisms involved in the symbiotic interaction." [GOC

32741 Pathogen[ Q2Q067] interacts with 1 human partners:{Q02556}

32742 Pathogen[ P0C214] interacts with 1 human partners:{Q02556}

32743 Pathogen[ P03346] interacts with 1 human partners:{Q02556}

32744 Pathogen[ Q85601] interacts with 1 human partners:{Q02556}

32745 Pathogen[ P14079] interacts with 2 human partners:{Q02556;Q99836}

32746 Pathogen[ P03383] interacts with 1 human partners:{Q02556}

32747 Pathogen[ P03410] interacts with 1 human partners:{Q02556}

32748 Pathogen[ P14075] interacts with 1 human partners:{Q02556}

32749 Pathogen[ P0C206] interacts with 1 human partners:{Q02556}

32750 Pathogen[ P03363] interacts with 1 human partners:{Q02556}

32751 [Cluster 2978]GO:0060411+P biological\_process [name] cardiac septum morphogenesis [def] "The process in which the anatomical structure of a cardiac septum is generated and organized. A cardiac septum is a partition that separates parts of the heart." [GOC

32752 Pathogen[ Q2Q067] interacts with 2 human partners:{O96004;Q9Y5J3}

32753 Pathogen[ P0C214] interacts with 2 human partners:{Q9Y5J3;O96004}

32754 Pathogen[ P03346] interacts with 2 human partners:{Q9Y5J3;O96004}

32755 Pathogen[ Q85601] interacts with 2 human partners:{O96004;Q9Y5J3}

32756 Pathogen[ P14079] interacts with 2 human partners:{O96004;Q9Y5J3}

32757 Pathogen[ P03383] interacts with 1 human partners:{O96004}

32758 Pathogen[ P03410] interacts with 2 human partners:{Q9Y5J3;O96004}

32759 Pathogen[ P14075] interacts with 1 human partners:{O96004}

32760 Pathogen[ P0C206] interacts with 2 human partners:{O96004;Q9Y5J3}

32761 Pathogen[ P03363] interacts with 2 human partners:{Q9Y5J3;O96004}

32762 [Cluster 2979]GO:0000972+P biological\_process [name] transcription-dependent tethering of RNA polymerase II gene DNA at nuclear periphery [def] "The chromosome organization process in which the DNA sequence containing a gene transcribed by RNA polymerase II is maintained in a specific location at the nuclear periphery. In *S. cerevisiae*, this process involves cis-acting DNA sequences such as the TATA box and upstream activating sequence (UAS) elements, trans-acting transcriptional activators, and also the 3'-UTR of the transcript." [GOC

32763 Pathogen[ Q2Q067] interacts with 1 human partners:{Q86U70}

32764 Pathogen[ P0C214] interacts with 1 human partners:{Q86U70}

32765 Pathogen[ P03346] interacts with 1 human partners:{Q86U70}

32766 Pathogen[ Q85601] interacts with 1 human partners:{Q86U70}

32767 Pathogen[ P14079] interacts with 1 human partners:{Q86U70}

32768 Pathogen[ P03383] interacts with 1 human partners:{Q86U70}

32769 Pathogen[ P03410] interacts with 1 human partners:{Q86U70}

32770 Pathogen[ P14075] interacts with 1 human partners:{Q86U70}

32771 Pathogen[ P0C206] interacts with 1 human partners:{Q86U70}

32772 Pathogen[ P03363] interacts with 1 human partners:{Q86U70}

32773 [Cluster 2980]GO:0033151+P biological\_process [name] V(D)J recombination [def] "The process in which immune receptor V, D, and J, or V and J gene segments, depending on the specific receptor, are recombined within a single locus utilizing the conserved heptamer and nonamer recombination signal sequences (RSS)." [GOC

32774 Pathogen[ Q2Q067] interacts with 3 human partners:{P55895;Q13426;P12956}

32775 Pathogen[ P0C214] interacts with 3 human partners:{P55895;Q13426;P12956}

32776 Pathogen[ P03346] interacts with 3 human partners:{P12956;Q13426;P55895}

32777 Pathogen[ Q85601] interacts with 3 human partners:{Q13426;P55895;P12956}

32778 Pathogen[ P14079] interacts with 3 human partners:{P12956;Q13426;P49917}

32779 Pathogen[ P03383] interacts with 3 human partners:{Q13426;P55895;P12956}

32780 Pathogen[ P03410] interacts with 3 human partners:{P55895;P12956;Q13426}

32781 Pathogen[ P14075] interacts with 3 human partners:{P12956;Q13426;P55895}

32782 Pathogen[ P0C206] interacts with 5 human partners:{P49917;Q13426;P49916;P55895;P12956}

32783 Pathogen[ P03363] interacts with 3 human partners:{P12956;Q13426;P55895}

32784 [Cluster 2981]GO:0021778+P biological\_process [name] oligodendrocyte cell fate specification [def] "The process in which a cell becomes capable of differentiating autonomously into an oligodendrocyte in an environment that is neutral with respect to the developmental pathway. Upon specification, the cell fate can be reversed." [GO\_REF

32785 Pathogen[ Q2Q067] interacts with 1 human partners:{P35712}

32786 Pathogen[ P0C214] interacts with 1 human partners:{P35712}

32787 Pathogen[ P03346] interacts with 1 human partners:{P35712}

32788 Pathogen[ Q85601] interacts with 1 human partners:{P35712}

32789 Pathogen[ P14079] interacts with 1 human partners:{P35712}

32790 Pathogen[ P03383] interacts with 1 human partners:{P35712}

32791 Pathogen[ P03410] interacts with 1 human partners:{P35712}

32792 Pathogen[ P14075] interacts with 1 human partners:{P35712}

32793 Pathogen[ P0C206] interacts with 1 human partners:{P35712}

32794 Pathogen[ P03363] interacts with 1 human partners:{P35712}

32795 [Cluster 2982]GO:0060206+P biological\_process [name] estrous cycle phase [def] "The progression of physiological phases, occurring in the endometrium during the estrous cycle that recur at regular intervals during the reproductive years. The estrous cycle

is an ovulation cycle where the endometrium is resorbed if pregnancy does not occur." [GOC

32796 Pathogen[ Q2Q067] interacts with 2 human partners:{P14921;Q9H2P0}

32797 Pathogen[ P0C214] interacts with 2 human partners:{P14921;Q9H2P0}

32798 Pathogen[ P03346] interacts with 3 human partners:{Q15788;Q9H2P0;P14921}

32799 Pathogen[ Q85601] interacts with 2 human partners:{P14921;Q9H2P0}

32800 Pathogen[ P14079] interacts with 3 human partners:{P04083;Q9H2P0;Q15788}

32801 Pathogen[ P03383] interacts with 1 human partners:{P14921}

32802 Pathogen[ P03410] interacts with 1 human partners:{P14921}

32803 Pathogen[ P14075] interacts with 1 human partners:{P14921}

32804 Pathogen[ P0C206] interacts with 3 human partners:{P14921;Q9H2P0;Q15788}

32805 Pathogen[ P03363] interacts with 2 human partners:{Q9H2P0;P14921}

32806 [Cluster 2983]GO:0060261+P biological\_process [name] positive regulation of transcription initiation from RNA polymerase II promoter [def] "Any process that increases the rate, frequency or extent of a process involved in starting transcription from an RNA polymerase II promoter." [GOC

32807 Pathogen[ Q2Q067] interacts with 5 human partners:{Q6ZW49;P35680;P11831;P20823;P21675}

32808 Pathogen[ P0C214] interacts with 3 human partners:{P21675;P11831;Q6ZW49}

32809 Pathogen[ P03346] interacts with 5 human partners:{P11831;P20823;P35680;P21675;Q6ZW49}

32810 Pathogen[ Q85601] interacts with 5 human partners:{P11831;P35680;Q6ZW49;P21675;P20823}

32811 Pathogen[ P14079] interacts with 3 human partners:{P35680;Q6ZW49;P21675}

32812 Pathogen[ P03383] interacts with 3 human partners:{P11831;Q6ZW49;P21675}

32813 Pathogen[ P03410] interacts with 4 human partners:{P11831;P21675;P35680;Q6ZW49}

32814 Pathogen[ P14075] interacts with 3 human partners:{P21675;P11831;Q6ZW49}

32815 Pathogen[ P0C206] interacts with 5 human partners:{Q6ZW49;P35680;P20823;P11831;P21675}

32816 Pathogen[ P03363] interacts with 3 human partners:{P11831;P21675;Q6ZW49}

32817 [Cluster 2984]GO:0031022+P biological\_process [name]nuclear migration along microfilament [def] "The directed movement of the nucleus along microfilaments within the cell, mediated by motor proteins." [GOC

32818 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UH99}

32819 Pathogen[ P0C214] interacts with 1 human partners:{Q9UH99}

32820 Pathogen[ P03346] interacts with 2 human partners:{Q8WXH0;Q9UH99}

32821 Pathogen[ Q85601] interacts with 1 human partners:{Q9UH99}

32822 Pathogen[ P14079] interacts with 2 human partners:{Q8WXH0;Q9UH99}

32823 Pathogen[ P03383] interacts with 1 human partners:{Q9UH99}

32824 Pathogen[ P03410] interacts with 2 human partners:{Q9UH99;Q8WXH0}

32825 Pathogen[ P14075] interacts with 1 human partners:{Q9UH99}

32826 Pathogen[ P0C206] interacts with 2 human partners:{Q9UH99;Q8WXH0}

32827 Pathogen[ P03363] interacts with 1 human partners:{Q9UH99}

32828 [Cluster 2985]GO:0030951+P biological\_process [name] establishment or maintenance of microtubule cytoskeleton polarity [def] "Any cellular process that results in the specification, formation or maintenance of polarized microtubule-based cytoskeletal structures." [GOC

32829 Pathogen[ Q2Q067] interacts with 2 human partners:{P02545;Q14008}

32830 Pathogen[ P0C214] interacts with 2 human partners:{Q14008;P02545}

32831 Pathogen[ P03346] interacts with 2 human partners:{P02545;Q14008}

32832 Pathogen[ Q85601] interacts with 2 human partners:{P02545;Q14008}

32833 Pathogen[ P14079] interacts with 3 human partners:{Q99661;P02545;Q14008}

32834 Pathogen[ P03383] interacts with 2 human partners:{P02545;Q14008}

32835 Pathogen[ P03410] interacts with 2 human partners:{Q14008;P02545}

32836 Pathogen[ P14075] interacts with 2 human partners:{P02545;Q14008}

32837 Pathogen[ P0C206] interacts with 2 human partners:{Q14008;P02545}

32838 Pathogen[ P03363] interacts with 2 human partners:{P02545;Q14008}

32839 [Cluster 2986]GO:0001736+P biological\_process [name] establishment of planar polarity [def] "Coordinated organization of groups of cells in the plane of an epithelium, such that they all orient to similar coordinates." [GOC

32840 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8TE85}

32841 Pathogen[ P0C214] interacts with 1 human partners:{Q8TE85}

32842 Pathogen[ P03346] interacts with 2 human partners:{Q8TE85;Q9BT04}

32843 Pathogen[ Q85601] interacts with 2 human partners:{Q8TE85;Q9BT04}

32844 Pathogen[ P14079] interacts with 3 human partners:{Q8TE85;Q8TCU4;Q9BT04}

32845 Pathogen[ P03383] interacts with 2 human partners:{Q8TE85;Q9BT04}

32846 Pathogen[ P03410] interacts with 3 human partners:{Q8TCU4;Q9BT04;Q8TE85}

32847 Pathogen[ P14075] interacts with 2 human partners:{Q8TE85;Q9BT04}

32848 Pathogen[ P0C206] interacts with 3 human partners:{Q8TE85;Q9BT04;Q8TCU4}

32849 Pathogen[ P03363] interacts with 2 human partners:{Q8TE85;Q9BT04}

32850 [Cluster 2987]GO:0000028+P biological\_process [name] ribosomal small subunit assembly [def] "The aggregation, arrangement and bonding together of constituent RNAs and proteins to form the small ribosomal subunit." [GOC

32851 Pathogen[ Q2Q067] interacts with 4 human partners:{P62263;P08708;P08865;P62851}

32852 Pathogen[ P0C214] interacts with 4 human partners:{P62263;P08865;P08708;P62851}

32853 Pathogen[ P03346] interacts with 4 human partners:{P08708;P08865;P62851;P62263}

32854 Pathogen[ Q85601] interacts with 4 human partners:{P62263;P08708;P62851;P08865}  
32855 Pathogen[ P14079] interacts with 5 human  
partners:{P62263;P08708;P08865;O75616;P62851}  
32856 Pathogen[ P03383] interacts with 4 human partners:{P08865;P62851;P62263;P08708}  
32857 Pathogen[ P03410] interacts with 5 human  
partners:{P08865;P08708;P62263;P62851;O75616}  
32858 Pathogen[ P14075] interacts with 4 human partners:{P62851;P08865;P08708;P62263}  
32859 Pathogen[ P0C206] interacts with 4 human partners:{P08865;P62263;P62851;P08708}  
32860 Pathogen[ P03363] interacts with 4 human partners:{P08865;P08708;P62851;P62263}  
32861 [Cluster 2988]GO:000042+P biological\_process [name] protein targeting to Golgi  
[def] "The process of directing proteins towards the Golgi\_ usually uses signals  
contained within the protein." [GOC  
32862 Pathogen[ Q2Q067] interacts with 6 human  
partners:{Q6VY07;Q96CN9;Q15643;Q96CV9;Q8IWJ2;Q13439}  
32863 Pathogen[ P0C214] interacts with 6 human  
partners:{Q8IWJ2;Q96CN9;Q6VY07;Q15643;Q96CV9;Q13439}  
32864 Pathogen[ P03346] interacts with 9 human  
partners:{Q13439;Q96CN9;Q99666;Q15643;Q96CV9;P20340;O14715;Q6VY07;Q8IWJ2}  
32865 Pathogen[ Q85601] interacts with 6 human  
partners:{Q96CN9;Q8IWJ2;Q15643;Q96CV9;Q13439;Q6VY07}  
32866 Pathogen[ P14079] interacts with 7 human  
partners:{Q6VY07;O14715;Q13439;Q8IWJ2;Q96CV9;Q96CN9;Q15643}  
32867 Pathogen[ P03383] interacts with 6 human  
partners:{Q8IWJ2;Q13439;Q6VY07;Q96CN9;Q15643;Q96CV9}  
32868 Pathogen[ P03410] interacts with 8 human  
partners:{Q99666;O14715;Q96CV9;Q15643;Q92805;Q13439;Q6VY07;Q8IWJ2}  
32869 Pathogen[ P14075] interacts with 6 human  
partners:{Q15643;Q8IWJ2;Q13439;Q96CV9;Q96CN9;Q6VY07}  
32870 Pathogen[ P0C206] interacts with 7 human  
partners:{Q13439;Q96CV9;Q6VY07;Q96CN9;Q15643;Q8IWJ2;O14715}  
32871 Pathogen[ P03363] interacts with 7 human  
partners:{Q96CV9;Q13439;Q6VY07;Q8IWJ2;Q99666;Q15643;Q96CN9}  
32872 [Cluster 2989]GO:000114+P biological\_process [name] regulation of transcription  
involved in G1 phase of mitotic cell cycle [def] "Any process that regulates  
transcription such that the target genes are transcribed as part of the G1 phase of the  
mitotic cell cycle." [GOC  
32873 Pathogen[ Q2Q067] interacts with 2 human partners:{Q5VTD9;O60885}  
32874 Pathogen[ P0C214] interacts with 2 human partners:{Q5VTD9;O60885}  
32875 Pathogen[ P03346] interacts with 2 human partners:{Q5VTD9;O60885}  
32876 Pathogen[ Q85601] interacts with 2 human partners:{O60885;Q5VTD9}  
32877 Pathogen[ P14079] interacts with 2 human partners:{Q5VTD9;O60885}  
32878 Pathogen[ P03383] interacts with 1 human partners:{O60885}  
32879 Pathogen[ P03410] interacts with 2 human partners:{O60885;Q5VTD9}  
32880 Pathogen[ P14075] interacts with 1 human partners:{O60885}  
32881 Pathogen[ P0C206] interacts with 2 human partners:{O60885;Q5VTD9}  
32882 Pathogen[ P03363] interacts with 2 human partners:{Q5VTD9;O60885}  
32883 [Cluster 2990]GO:0044255+P biological\_process [name] cellular lipid metabolic process  
[def] "The chemical reactions and pathways involving lipids, as carried out by  
individual cells." [GOC  
32884 Pathogen[ Q2Q067] interacts with 35 human  
partners:{O14734;Q9H5J4;Q15596;P22033;P30084;Q9NZI5;O15379;Q14192;Q96ST3;O75182;P131  
96;P32189;Q9BW60;Q9GZR5;Q99743;Q9BYK8;Q92539;Q15327;Q96RS0;O60907;P55055;Q3L8U1;Q96R  
U7;A1L3X0;Q9HB03;Q14686;Q9BZK7;Q9Y618;Q92793;Q6STE5;P27469;O75376;Q16836;Q86X55;Q146  
93}  
32885 Pathogen[ P0C214] interacts with 46 human  
partners:{P27469;P30084;Q15327;Q9NXB9;O75874;Q8N335;P53396;O60907;Q99743;Q92793;Q9NZ  
I5;Q9GZR5;Q3L8U1;Q6STE5;P40939;Q14686;P32189;P13196;Q9HB03;Q9BYK8;Q9NYP7;P23786;Q168  
81;P22033;Q92539;A1L3X0;O14832;O75376;Q14192;O15379;Q96RS0;Q96RU7;Q9BZK7;O14734;Q96S  
T3;Q9BW60;Q86X55;Q16698;Q15596;P48163;Q9Y618;Q96PE7;Q06520;O75182;Q14693;P21695}  
32886 Pathogen[ P03346] interacts with 38 human  
partners:{Q9BW60;Q96ST3;Q96PE7;Q06520;Q15788;O60907;Q16836;P07148;O15379;P27469;Q153  
27;P23786;Q9NZI5;P13196;O75182;Q92539;Q15596;Q9H5J4;Q14192;Q6STE5;Q96RS0;Q9HB03;O753  
76;Q96RU7;O14734;Q9BZK7;P32189;P50542;Q86X55;Q9BYK8;Q92793;Q3L8U1;Q9Y618;Q99743;P550  
55;P30084;Q14693;Q14686}  
32887 Pathogen[ Q85601] interacts with 35 human  
partners:{O75182;Q86X55;A1L3X0;Q3L8U1;Q6STE5;O60907;Q9Y618;P27469;P13196;Q99743;Q155  
96;P32189;P55055;O14734;Q14686;Q9BW60;Q9H5J4;Q14192;Q96RS0;Q15327;P22033;Q9BYK8;O753  
76;Q9HB03;Q96RU7;Q9BZK7;O15379;Q16836;Q9GZR5;Q92793;Q9NZI5;Q92539;P30084;Q14693;Q96S  
T3}  
32888 Pathogen[ P14079] interacts with 40 human  
partners:{O15379;O75192;Q99743;P27469;Q96RS0;P55055;P13196;Q9BYK8;Q9BZK7;Q6STE5;Q155  
96;Q14693;A1L3X0;Q14192;Q96ST3;Q92793;O60907;P32189;P30084;Q9HB03;Q92539;P50542;O148  
32;O14734;Q15788;P22033;Q96PE7;Q9NZI5;Q15327;Q96RU7;Q99541;O75182;O75376;Q9GZR5;P216  
95;Q9BW60;Q14686;Q9H5J4;Q3L8U1;Q16836}  
32889 Pathogen[ P03383] interacts with 31 human  
partners:{Q9Y618;O75182;P27469;Q15596;O75376;Q9BW60;Q9GZR5;O60907;Q9H5J4;Q86X55;Q168

36;Q14686;Q6STE5;O14734;Q14192;A1L3X0;Q9HB03;O15379;Q96RS0;P22033;Q96RU7;Q3L8U1;Q15327;Q9BZK7;P32189;Q96ST3;Q9NZI5;Q92539;Q9BYK8;Q92793;Q14693}

32890 Pathogen[ P03410] interacts with 41 human  
partners: {O75192;A1L3X0;Q99743;P30084;Q96RS0;Q9GZR5;Q9H5J4;Q96PE7;Q14686;Q9BYK8;O75182;Q86X55;Q9NZI5;O75376;Q15327;P23786;Q96ST3;Q14693;O14734;Q92793;P27469;Q9BW60;O15379;P55809;O14832;Q16836;Q15596;Q96RU7;P50542;Q3L8U1;Q9HB03;Q9BZK7;P32189;Q6STE5;Q9Y618;Q92539;P13196;O60907;Q14192;P22033;P21695}

32891 Pathogen[ P14075] interacts with 33 human  
partners: {Q3L8U1;Q96ST3;Q9H5J4;Q9BW60;Q14686;P32189;Q15327;O14734;Q9HB03;O75182;Q9Y618;O75376;A1L3X0;Q92539;P22033;Q86X55;Q16836;Q96RS0;O60907;Q96RU7;Q9GZR5;O15379;Q9NZI5;Q9BZK7;Q92793;O14832;O75192;P27469;Q6STE5;Q14192;Q9BYK8;Q15596;Q14693}

32892 Pathogen[ P0C206] interacts with 41 human  
partners: {Q96RS0;Q92539;O75192;Q96PE7;Q96ST3;Q9NZI5;O60907;Q9HB03;Q15327;Q86X55;Q16836;Q6STE5;O14832;P55055;P50542;P32189;Q96RU7;P23786;Q9H5J4;Q92793;Q9BYK8;P30084;Q99743;O15379;Q14686;O14734;Q9BZK7;O75376;Q15596;Q9GZR5;P27469;Q14192;P13196;P22033;Q14693;Q15788;Q9Y618;O75182;A1L3X0;Q9BW60;Q3L8U1}

32893 Pathogen[ P03363] interacts with 26 human  
partners: {O14734;Q16836;Q96RS0;Q3L8U1;Q9H5J4;Q6STE5;Q92539;O15379;Q9BZK7;O75376;O60907;Q15596;Q14686;Q15327;Q99743;Q96ST3;Q9NZI5;Q9Y618;Q9BYK8;Q92793;P27469;P13196;Q06520;O75182;Q86X55;Q14192}

32894 [Cluster 2991]GO:0045648+P biological\_process [name] positive regulation of erythrocyte differentiation [def] "Any process that activates or increases the frequency, rate or extent of erythrocyte differentiation." [GOC

32895 Pathogen[ Q2Q067] interacts with 7 human  
partners: {P27540;P14921;Q6NXT1;P15976;P08107;O43524;P23769}

32896 Pathogen[ P0C214] interacts with 5 human  
partners: {P14921;P23769;Q6NXT1;P27540;P08107}

32897 Pathogen[ P03346] interacts with 8 human  
partners: {P08107;P23769;P27540;P14921;P17542;P15976;O43524;Q6NXT1}

32898 Pathogen[ Q85601] interacts with 6 human  
partners: {P08107;P15976;P14921;P23769;Q6NXT1;P27540}

32899 Pathogen[ P14079] interacts with 5 human  
partners: {P15976;Q6NXT1;P08107;P27540;P23769}

32900 Pathogen[ P03383] interacts with 4 human partners: {P08107;P27540;P14921;P23769}

32901 Pathogen[ P03410] interacts with 6 human  
partners: {Q6NXT1;P27540;P08107;P23769;P15976;P14921}

32902 Pathogen[ P14075] interacts with 4 human partners: {P23769;P27540;P14921;P08107}

32903 Pathogen[ P0C206] interacts with 6 human  
partners: {Q6NXT1;P14921;P15976;P08107;P23769;P27540}

32904 Pathogen[ P03363] interacts with 5 human  
partners: {P27540;Q6NXT1;P14921;O43524;P08107}

32905 [Cluster 2992]GO:0042986+P biological\_process [name] positive regulation of amyloid precursor protein biosynthetic process [def] "Any process that activates or increases the frequency, rate or extent of the chemical reactions and pathways resulting in the formation of amyloid precursor protein (APP), the precursor of beta-amyloid." [GOC

32906 Pathogen[ Q2Q067] interacts with 1 human partners: {Q96IZ0}

32907 Pathogen[ P0C214] interacts with 1 human partners: {Q96IZ0}

32908 Pathogen[ P03346] interacts with 1 human partners: {Q96IZ0}

32909 Pathogen[ Q85601] interacts with 1 human partners: {Q96IZ0}

32910 Pathogen[ P14079] interacts with 1 human partners: {Q96IZ0}

32911 Pathogen[ P03383] interacts with 1 human partners: {Q96IZ0}

32912 Pathogen[ P03410] interacts with 1 human partners: {Q96IZ0}

32913 Pathogen[ P14075] interacts with 1 human partners: {Q96IZ0}

32914 Pathogen[ P0C206] interacts with 1 human partners: {Q96IZ0}

32915 Pathogen[ P03363] interacts with 1 human partners: {Q96IZ0}

32916 [Cluster 2993]GO:0070555+P biological\_process [name] response to interleukin-1 [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an interleukin-1 stimulus." [GOC

32917 Pathogen[ Q2Q067] interacts with 6 human  
partners: {P56524;Q16594;P14921;Q04206;Q99966;P78318}

32918 Pathogen[ P0C214] interacts with 6 human  
partners: {P78318;P14921;P56524;Q04206;Q16594;Q99966}

32919 Pathogen[ P03346] interacts with 7 human  
partners: {P50135;Q99966;P56524;Q04206;P14921;P78318;Q16594}

32920 Pathogen[ Q85601] interacts with 6 human  
partners: {P14921;Q99966;Q16594;Q04206;P56524;P78318}

32921 Pathogen[ P14079] interacts with 9 human  
partners: {P04083;O43187;Q16594;P13498;P50135;Q99966;P56524;P78318;Q99836}

32922 Pathogen[ P03383] interacts with 5 human  
partners: {P14921;Q16594;P56524;Q04206;P78318}

32923 Pathogen[ P03410] interacts with 8 human  
partners: {Q04206;P78318;O43187;P56524;Q16594;P50135;P14921;Q99966}

32924 Pathogen[ P14075] interacts with 5 human  
partners: {Q04206;P56524;Q16594;P78318;P14921}

32925 Pathogen[ P0C206] interacts with 7 human

32926 Pathogen[ P14921;P78318;Q04206;Q99966;P56524;P50135;Q16594] interacts with 5 human partners: {P14921;P78318;Q04206;Q99966;P56524;P50135;Q16594}

32927 [Cluster 2994]GO:0006121+P biological\_process [name] mitochondrial electron transport, succinate to ubiquinone [def] "The transfer of electrons from succinate to ubiquinone that occurs during oxidative phosphorylation, mediated by the multisubunit enzyme known as complex II." [ISBN Pathogen[ Q2Q067] interacts with 1 human partners: {Q9NX18}

32928 Pathogen[ POC214] interacts with 2 human partners: {Q9NX18;O14521}

32930 Pathogen[ P03346] interacts with 1 human partners: {Q9NX18}

32931 Pathogen[ Q85601] interacts with 1 human partners: {Q9NX18}

32932 Pathogen[ P14079] interacts with 2 human partners: {Q9NX18;O14521}

32933 Pathogen[ P03383] interacts with 1 human partners: {Q9NX18}

32934 Pathogen[ P03410] interacts with 2 human partners: {O14521;Q9NX18}

32935 Pathogen[ P14075] interacts with 1 human partners: {Q9NX18}

32936 Pathogen[ POC206] interacts with 2 human partners: {O14521;Q9NX18}

32937 Pathogen[ P03363] interacts with 1 human partners: {Q9NX18}

32938 [Cluster 2995]GO:0006605+P biological\_process [name] protein targeting [def] "The process of targeting specific proteins to particular membrane-bounded subcellular organelles. Usually requires an organelle specific protein sequence motif." [GOC Pathogen[ Q2Q067] interacts with 17 human partners: {Q9NQG7;Q9Y6Q5;P63104;O60296;P62258;Q9NSC5;P61981;Q7Z3B4;Q15388;P62913;Q16543;Q02952;Q9UPV9;P27348;P31946;Q13023;O75901}

32940 Pathogen[ POC214] interacts with 15 human partners: {Q9NQG7;Q16543;P62913;Q15388;Q9UPV9;P27348;Q9UM54;Q13023;O60296;Q9NSC5;O75901;Q9Y6Q5;P61981;P31946;Q7Z3B4}

32941 Pathogen[ P03346] interacts with 22 human partners: {Q95166;Q9NSC5;Q9NQG7;O14908;P62913;Q96RT1;O75901;P62258;P27348;Q13023;O60296;Q9UPV9;Q02952;Q16543;P61981;P31946;P63104;Q15388;Q9Y6Q5;Q7Z3B4;Q9NRD5;Q6ZJW1}

32942 Pathogen[ Q85601] interacts with 21 human partners: {Q9NQG7;P61981;Q16543;P63104;P62913;P31946;Q15388;Q96RT1;O95166;Q6ZJW1;Q9UPV9;O60296;P62258;P27348;Q9BVA0;O75901;Q9NSC5;Q9UM54;Q13023;Q9Y6Q5;Q7Z3B4}

32943 Pathogen[ P14079] interacts with 25 human partners: {Q9NQG7;Q02952;O95166;O43759;Q9Y6Q5;Q13023;P24588;Q9UM54;Q15388;P63104;Q96RT1;P61981;P31946;P27348;P60059;Q9NSC5;P62258;O60296;Q7Z3B4;P62913;Q16543;Q6ZJW1;Q9BVA0;O14908;O75901}

32944 Pathogen[ P03383] interacts with 16 human partners: {Q9NQG7;Q16543;P62913;P31946;Q13023;O75901;O60296;P63104;Q15388;Q9UPV9;Q9NSC5;P61981;Q7Z3B4;P62258;Q02952;P27348}

32945 Pathogen[ P03410] interacts with 27 human partners: {Q9NQG7;P62258;Q9Y6Q5;Q7Z3B4;Q96RT1;Q15388;P62913;Q16543;P60059;Q6ZJW1;O43759;P27348;O14908;Q9NSC5;O95166;P61981;Q9UM54;Q9NRD5;Q9UPV9;Q13023;O60296;P63104;O75901;Q02952;P24588;P31946;Q9BVA0}

32946 Pathogen[ P14075] interacts with 16 human partners: {Q9NQG7;Q16543;P62913;Q15388;O60296;O75901;P61981;Q9UPV9;Q02952;Q9NSC5;P63104;P27348;P31946;Q7Z3B4;P62258;Q13023}

32947 Pathogen[ POC206] interacts with 25 human partners: {Q9NQG7;Q9UM54;Q9BVA0;Q96RT1;Q9Y6Q5;Q6ZJW1;O43759;Q13023;Q7Z3B4;Q16543;P27348;Q9UPV9;P31946;P62913;P63104;Q9NSC5;P62258;O60296;O14908;P61981;Q15388;Q02952;Q9NRD5;O75901;O95166}

32948 Pathogen[ P03363] interacts with 20 human partners: {P62913;Q9NQG7;P62258;Q7Z3B4;Q96RT1;P27348;Q9UPV9;O14908;Q02952;Q15388;P31946;O60296;P63104;Q16543;Q9NSC5;O75901;Q6ZJW1;Q13023;P61981;O95166}

32949 [Cluster 2996]GO:0007140+P biological\_process [name] male meiosis [def] "A cell cycle process comprising the steps by which a cell progresses through the nuclear division phase of a meiotic cell cycle in the male germline." [GOC Pathogen[ Q2Q067] interacts with 8 human partners: {Q9UHC1;Q5MJ70;Q8IYF3;Q58F21;Q8IZX4;Q9H5I1;Q9BX26;O15360}

32950 Pathogen[ POC214] interacts with 10 human partners: {Q58F21;Q9H5I1;Q9BXT5;Q9UHC1;O15360;Q8IZX4;Q9BX26;Q5MJ70;P40692;Q8IYF3}

32951 Pathogen[ P03346] interacts with 11 human partners: {Q9BXT5;Q5MJ70;Q9BX26;O15360;Q8IYF3;Q9UHC1;Q58F21;Q9NTU4;Q8N635;Q8IZX4;Q9H5I1}

32952 Pathogen[ Q85601] interacts with 10 human partners: {Q9H5I1;Q9BXT5;Q8IYF3;Q9BX26;Q8IZX4;O15360;Q9UHC1;P40692;Q58F21;Q5MJ70}

32953 Pathogen[ P14079] interacts with 13 human partners: {Q5MJ70;Q8IZX4;Q9BXT5;Q58F21;P40692;Q9UHC1;Q9H5I1;Q9NTU4;Q8N635;Q9BX26;Q96JY0;O15360;Q8IYF3}

32954 Pathogen[ P03383] interacts with 9 human partners: {Q9NTU4;Q9UHC1;Q8IZX4;Q8IYF3;Q58F21;O15360;Q9H5I1;Q5MJ70;Q9BX26}

32955 Pathogen[ P03410] interacts with 12 human partners: {P40692;Q8IZX4;Q9NTU4;Q9BX26;Q9H5I1;Q9BXT5;O15360;Q5MJ70;Q8IYF3;Q58F21;Q8N635;Q9UHC1}

32956 Pathogen[ P14075] interacts with 10 human partners: {Q9NTU4;O15360;Q5MJ70;Q9BX26;Q9H5I1;Q58F21;Q9UHC1;Q9BXT5;Q8IYF3;Q8IZX4}

32957 Pathogen[ POC206] interacts with 12 human partners: {Q9NTU4;O15360;Q5MJ70;Q9BX26;Q9H5I1;Q58F21;Q9UHC1;Q9BXT5;Q8IYF3;Q8IZX4}



- 32959 partners: {O15360;Q8N635;Q9NTU4;P40692;Q9UHC1;Q9BXT5;Q9BX26;Q8IZX4;Q9H5I1;Q8IYF3;Q58F21;Q5MJ70}  
Pathogen[ P03363] interacts with 12 human  
partners: {Q8IZX4;P54652;O15360;Q58F21;Q9H5I1;Q9UHC1;Q9NTU4;Q96JY0;Q5MJ70;Q8N635;Q9BXT5;Q9BX26}
- 32960 [Cluster 2997]GO:0019221+P biological\_process [name] cytokine-mediated signaling pathway [def] "Any series of molecular signals generated as a consequence of a cytokine binding to a cell surface receptor." [GOC
- 32961 Pathogen[ Q2Q067] interacts with 85 human  
partners: {Q14974;Q96EE3;P52948;Q12769;Q9Y6K5;Q96HA1;O75925;Q9UII4;P55265;P49790;P49792;P40763;P09913;O75694;Q8TD23;Q92985;P78406;Q04206;P38919;P14316;Q99567;Q8N1F7;O14896;Q7Z3B4;Q8WU90;Q8NFH4;Q00978;P12270;P51965;Q14240;P80217;P63165;Q14765;O15131;Q9BW27;Q6GPH4;Q8TEM1;Q14653;Q15306;Q9Y4X5;P10914;A9QM74;O14933;P28062;Q9BVL2;P78344;Q9UKX7;P61088;Q9NRG9;Q8NFH3;O00505;Q02556;P09914;P37198;Q92621;P52630;O00629;O15504;Q13526;P0CG47;O60573;P57740;O75688;P52292;P0CG48;Q92600;Q8WUM0;Q04637;P62987;P06730;P42226;P23497;Q13568;P35658;Q8NFH5;P52294;P42224;P60842;P02795;O14879;Q5SRE5;P49715;P18146;P33076;P62979}
- 32962 Pathogen[ P0C214] interacts with 88 human  
partners: {P80217;O14933;A9QM74;Q8NFH5;P28062;P09914;P09913;P60842;O75925;Q13568;O14879;Q92934;Q8TEM1;P33076;P42226;Q8TD23;Q14765;P78406;P55265;P57740;Q9Y6K5;Q99567;Q13526;Q8N5X7;P29728;Q8N1F7;O75694;P78344;Q04206;Q96EE3;P42224;P10914;P49792;Q9UKX7;Q00978;O15131;P51965;P49790;Q92985;P37198;Q9BW27;P52294;P63165;Q02556;P0CG48;P38919;Q9NRG9;P35658;Q14240;Q9UII4;O14896;P02795;Q8NFH3;Q14653;O00505;Q6GPH4;P62987;Q04637;P23497;Q8WU90;P18146;O15504;P0CG47;P40763;P52292;P12270;Q92600;Q14974;O75688;Q8NFH4;Q9BVL2;Q9Y4X5;P62979;P52630;Q5SRE5;P06730;O15524;Q7Z3B4;P14316;Q8WUM0;P52948;Q92621;P61088;Q12769;O00629;O60573;Q15306;Q96HA1}
- 32963 Pathogen[ P03346] interacts with 92 human  
partners: {Q8TEM1;Q8NFH4;Q8WUM0;O00629;O15524;P06730;P12270;Q99612;Q12769;Q96EE3;P55265;Q99567;Q9UKX7;P62987;O75694;Q8WU90;Q8TD23;Q9NRG9;P78406;O75159;P57740;P14316;Q8N5X7;Q9BVL2;P0CG48;Q9UII4;Q8N1F7;P78344;P38919;O60573;Q04206;P33076;P28062;P42226;Q15306;O00505;Q8NFH5;Q13526;Q00978;P37198;Q8NFH3;P35658;P60842;P49715;P61088;Q5SRE5;O75925;Q92621;Q9BW27;P17706;Q15646;P10914;P51965;Q02556;O14879;O15131;P63165;A9QM74;O14896;Q14240;O75688;P42224;Q14653;Q13568;P62979;P80217;P02795;P0CG47;Q6GPH4;P52292;O14933;P49790;P23497;Q04637;P09913;P18146;Q96HA1;Q92985;Q9Y4X5;P09914;Q14765;Q9Y6R0;P52630;P40763;Q7Z3B4;P52294;Q9Y6K5;O15504;Q92600;P49792;Q14974;P52948}
- 32964 Pathogen[ Q85601] interacts with 84 human  
partners: {Q8TEM1;P18146;Q5SRE5;O14896;O00629;O75688;P09913;P33076;P14316;O14933;Q8NFH4;Q14765;Q8NFH3;Q02556;Q96EE3;O14879;P06730;Q12769;Q14240;Q6GPH4;Q8TD23;P78406;P57740;Q9NRG9;Q8N5X7;P40763;Q8WUM0;Q8N1F7;Q04637;Q15306;P0CG48;Q00978;P02795;P12270;Q92600;O75694;O15504;Q14974;P10914;P52630;P28062;P38919;Q14653;O15131;Q9BW27;Q9Y6K5;Q92621;P51965;Q13526;Q04206;P42226;P28062;O60573;A9QM74;P52948;Q9UKX7;Q92985;Q99612;P42224;P78344;Q8NFH5;P60842;P62979;P55265;Q8WU90;P35658;P09914;P49715;P0CG47;P63165;Q99567;P52292;P49792;P62987;Q9BVL2;Q96HA1;P61088;O00505;Q13568;Q7Z3B4;O75925;P52294;P49790;Q9Y4X5}
- 32965 Pathogen[ P14079] interacts with 87 human  
partners: {Q8NFH5;P13164;Q9BW27;Q96HA1;P33076;Q8TD23;P51965;P60842;P0CG48;Q92600;P52630;P29728;P02795;Q14653;P06730;P09914;P09912;O14896;P80217;P57740;Q8N1F7;Q92985;P35658;O43432;Q92621;P52294;Q8TEM1;P62979;P63165;Q14240;Q15306;Q14765;P23497;P62987;Q99612;P09913;Q9UKX7;P78344;Q9BVL2;O60573;P42226;O15504;Q8WU90;Q13568;Q8WUM0;P12270;P28062;P55265;Q92934;P49715;Q9Y6K5;Q99567;Q14974;Q8N5X7;Q96EE3;P37198;Q8NFH3;Q6GPH4;P37198;P49790;A9QM74;O00505;P42224;Q8NFH4;O75925;Q96AZ6;P78406;Q00978;Q7Z3B4;O75688;Q02556;Q12769;Q13526;P0CG47;O14879;O14933;Q5SRE5;Q9NRG9;O75694;P14316;O00629;P52292;O15131;Q99836;Q04637;P10914;P52948;P40305}
- 32966 Pathogen[ P03383] interacts with 74 human  
partners: {Q9BVL2;Q96EE3;O15504;O14879;Q8WUM0;P10914;O75925;P14316;Q92621;P49792;Q8NFH4;Q14653;P33076;O14933;P62987;P51965;P12270;P52948;Q8TD23;P78406;P57740;Q8NFH5;Q8N1F7;P52630;P38919;P42226;O00505;Q8TEM1;Q15306;O60573;Q00978;P02795;P18146;Q12769;A9QM74;P09913;Q99567;P61088;P06730;Q92985;Q9BW27;P52292;P80217;O14896;Q13568;P63165;Q92600;P78344;Q14974;Q9Y6K5;Q5SRE5;O15131;P35658;P23497;Q04637;P62979;Q96HA1;P0CG47;Q9NRG9;Q04206;P55265;Q02556;P0CG48;Q8WU90;P37198;Q9UKX7;P28062;O00629;Q7Z3B4;P52294;P49790;O75694;Q13526;Q8NFH3}
- 32967 Pathogen[ P03410] interacts with 87 human  
partners: {Q99567;Q04206;Q7Z3B4;Q9BW27;O75925;P0CG48;Q14974;A9QM74;O00505;Q9UKX7;O14896;P29728;P55265;P52294;Q8NFH4;P06730;P51965;Q13526;Q5SRE5;P52948;O15504;Q14653;Q14765;P09912;O75694;Q92934;P78406;P61088;O43432;Q96HA1;P55265;P62979;Q15306;Q13568;O14933;Q8N1F7;Q02556;O75688;Q6GPH4;P49790;P12270;O00629;P35658;Q8NFH5;P02795;P28062;Q96AZ6;Q8TEM1;Q9Y4X5;P10914;Q96EE3;P60842;P38919;P80217;P42226;Q9Y6K5;P09913;O60573;P52630;P62987;Q8WUM0;Q8N5X7;Q92600;P14316;Q8TD23;Q04637;P57740;Q92985;O14879;P18146;Q12769;P52292;P40305;Q9NRG9;O15131;P40763;Q8NFH3;P09914;P33076;Q9BVL2;Q00978;Q8WU90;P0CG47;Q92621;P78344;P49792;Q14240}
- 32968 Pathogen[ P14075] interacts with 75 human  
partners: {P52630;P52292;O15131;P63165;P23497;Q04206;P09913;P55265;Q8WU90;P42226;Q8TD23;P61088;P78406;P57740;Q92600;P49792;Q8N1F7;P51965;P18146;P78344;P80217;P33076;O00629;O75925;Q9UKX7;O14933;P06730;Q00978;P35658;P12270;Q92621;O00505;Q02556;Q13568;Q96HA1;Q9BW27;P52294;P0CG48;P62979;O60573;Q14653;P28062;Q13526;Q8TEM1;Q04637;Q96EE3;P37198;Q9Y6K5;Q15306;Q5SRE5;P62987;P14316;O14896;O14879;Q8NFH3;P02795;P0CG47;A9QM74;O155

04;Q99567;Q12769;P40305;Q14974;Q92985;Q9BVL2;P49790;Q8WUM0;P38919;P10914;O75694;Q9NRG9;Q7Z3B4;Q8NFH4;Q8NFH5;P52948}

32969 Pathogen[ POC206] interacts with 88 human partners: {Q96EE3;P28062;Q92621;P10914;P0CG48;O15131;Q8WU90;Q13568;P49790;P40305;P55265;Q5SRE5;Q8NFH5;Q9NRG9;Q13526;O75925;O14933;A9QM74;Q7Z3B4;O00629;Q9Y6K5;Q14974;Q96HA1;O14879;O00505;P29728;Q15306;P49715;O15524;Q8NFH4;P30730;P80217;P06730;P18146;Q9Y4X5;Q92934;P51965;Q02556;Q8WUM0;P49792;Q8TEML;Q9UKX7;P61088;O75688;Q99612;Q8N5X7;O75694;Q92985;Q8TD23;Q04206;P09913;P62979;O14896;P40763;Q14240;Q92600;Q99567;P0CG47;Q8NFH4;Q00978;P42226;P78344;P78406;O60573;Q14765;O15504;Q04637;Q12769;P63165;P62987;P38919;P02795;Q8NFH3;P52294;P42224;P60842;Q6GPH4;Q8N1F7;P52292;P14316;P35658;P52630;P17706;Q9BW27;Q9BVL2;P12270;Q14653;P09914}

32970 Pathogen[ P03363] interacts with 81 human partners: {P17706;Q14653;Q9Y6K5;P52630;O75159;Q14765;Q7Z3B4;P51965;Q92985;P38919;Q5SR E5;Q04206;O14896;P02795;P12270;P18146;O15524;Q8NFH4;A9QM74;O14933;Q02556;P09914;Q8NF H3;P09913;Q12769;O00505;Q13568;Q99612;P80217;Q9UKX7;Q15306;Q13526;P23497;Q8WU90;O006 29;O14879;P42226;P61088;Q9NRG9;Q8WUM0;Q9BVL2;Q99567;Q8N5X7;Q9Y4X5;P63165;Q14240;P143 16;Q96HA1;P49792;P10914;P35658;P55265;P62987;O75925;Q92600;Q14974;O75694;P49790;P577 40;P33076;Q00978;P60842;Q8TD23;O15131;P78406;P52948;O60573;O15504;P78344;Q9Y6R0;P371 98;P52292;Q8N1F7;Q92621;O75688;Q8NFH5;P06730;Q9UII4;Q9BW27;Q04637;P52294}

32971 [Cluster 2998]GO:0032648+P biological\_process [name] regulation of interferon-beta production [def] "Any process that modulates the frequency, rate, or extent of interferon-beta production." [GOC

32972 Pathogen[ Q2Q067] interacts with 2 human partners: {Q13114;Q9NWF9}

32973 Pathogen[ POC214] interacts with 2 human partners: {Q9NWF9;Q13114}

32974 Pathogen[ P03346] interacts with 2 human partners: {Q9NWF9;Q13114}

32975 Pathogen[ Q85601] interacts with 2 human partners: {Q9NWF9;Q13114}

32976 Pathogen[ P14079] interacts with 2 human partners: {Q9NWF9;Q13114}

32977 Pathogen[ P03383] interacts with 2 human partners: {Q9NWF9;Q13114}

32978 Pathogen[ P03410] interacts with 2 human partners: {Q9NWF9;Q13114}

32979 Pathogen[ P14075] interacts with 2 human partners: {Q9NWF9;Q13114}

32980 Pathogen[ POC206] interacts with 2 human partners: {Q13114;Q9NWF9}

32981 Pathogen[ P03363] interacts with 2 human partners: {Q9NWF9;Q13114}

32982 [Cluster 2999]GO:000956+P biological\_process [name] nuclear-transcribed mRNA catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of nuclear-transcribed mRNAs in eukaryotic cells." [GOC

32983 Pathogen[ Q2Q067] interacts with 4 human partners: {Q8IZH2;Q06265;Q9NPD3;Q9UL18}

32984 Pathogen[ POC214] interacts with 4 human partners: {Q8IZH2;Q9NPD3;Q06265;Q9UL18}

32985 Pathogen[ P03346] interacts with 4 human partners: {Q9UL18;Q8IZH2;Q06265;Q9NPD3}

32986 Pathogen[ Q85601] interacts with 4 human partners: {Q9NPD3;Q9UL18;Q8IZH2;Q06265}

32987 Pathogen[ P14079] interacts with 4 human partners: {Q9UL18;Q9NPD3;Q8IZH2;Q06265}

32988 Pathogen[ P03383] interacts with 3 human partners: {Q06265;Q9UL18;Q9NPD3}

32989 Pathogen[ P03410] interacts with 4 human partners: {Q9UL18;Q06265;Q8IZH2;Q9NPD3}

32990 Pathogen[ P14075] interacts with 3 human partners: {Q9NPD3;Q9UL18;Q06265}

32991 Pathogen[ POC206] interacts with 4 human partners: {Q8IZH2;Q9NPD3;Q06265;Q9UL18}

32992 Pathogen[ P03363] interacts with 3 human partners: {Q9NPD3;Q9UL18;Q8IZH2}

32993 [Cluster 3000]GO:0043161+P biological\_process [name] proteasomal ubiquitin-dependent protein catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of a protein or peptide by hydrolysis of its peptide bonds, initiated by the covalent attachment of ubiquitin, and mediated by the proteasome." [GOC

32994 Pathogen[ Q2Q067] interacts with 35 human partners: {Q8IXJ6;P54252;Q92890;Q9NS56;Q8WW12;Q13829;P49427;P35638;P54727;P63279;Q6VV B1;Q16531;P54725;P61077;Q04323;P63146;P78317;P62714;Q5TA31;Q9UNN5;Q8TAT6;O60907;Q136 18;Q15366;Q9UKT7;Q9NWF9;Q13216;P28074;Q9Y2M5;Q9BZK7;Q9UNE7;Q96SW2;Q9H3F6;Q13490;P628 77}

32995 Pathogen[ POC214] interacts with 42 human partners: {Q96B02;Q8WW12;Q13490;Q13829;P49427;Q9NS56;O60907;P54725;P63279;Q13618;P628 77;O00308;Q5T447;Q15366;Q9UKT7;P78317;Q9H0M0;Q9NWF9;P61077;Q13216;Q9HCE7;P62714;Q8TA T6;P28074;Q9UNN5;Q96SW2;Q9Y2M5;Q8WZ19;Q04323;Q92890;Q5TA31;P54727;Q9BZK7;Q8IXJ6;Q9H3 F6;Q9UNE7;Q16531;P63146;Q6VVB1;P54252;P35638;P55072}

32996 Pathogen[ P03346] interacts with 46 human partners: {Q9UKT7;Q15366;O60907;Q13362;Q8WZ19;Q9NWF9;P35638;P49427;Q9BYM8;P28074;Q8WW 12;Q969U6;Q16531;Q13618;Q8IXJ6;P63279;P62714;Q5TA31;P55072;Q13829;Q5T447;P61077;Q96S W2;P62877;Q9NS56;Q9UNN5;P63146;Q9UNE7;Q8IUQ4;P54727;Q13216;P78317;Q6VVB1;Q04323;Q8TA T6;Q9BZK7;P54725;Q13490;Q9H0M0;Q9H3F6;Q9Y2M5;P0C2W1;Q92890;Q9H0E7;P54252;O00308}

32997 Pathogen[ Q85601] interacts with 38 human partners: {P78317;Q9NS56;Q13490;Q9H0E7;P63146;Q8WZ19;P62714;Q16531;P49427;O60907;Q132 16;P62877;Q96SW2;Q9NWF9;Q96B02;Q5TA31;P61077;P63279;P54252;Q9UKT7;Q9UNN5;P54727;Q043 23;Q8WW12;Q8IXJ6;P54725;Q6VVB1;Q9BZK7;Q92890;Q9Y2M5;P28074;Q13618;Q9H3F6;Q13829;Q9UN E7;Q8TAT6;Q15366;P35638}

32998 Pathogen[ P14079] interacts with 33 human partners: {Q13362;Q5TA31;P63279;Q9BZK7;P28074;Q13618;Q16531;P54252;O60907;Q13216;P610 77;Q92890;P62877;Q8WW12;Q9UNN5;Q9NWF9;Q9BYM8;Q8TAT6;Q9Y2M5;Q15366;Q9NS56;P35638;Q8IX J6;P49427;P78317;Q9UKT7;Q13829;Q96SW2;P54727;P63146;Q9H3F6;Q04323;Q13490}

32999 Pathogen[ P03383] interacts with 31 human partners: {Q15366;Q13216;P49427;O60907;Q96SW2;Q13490;P62714;P35638;Q04323;P78317;Q9UK T7;Q8WW12;Q13618;P61077;P54252;Q9UNN5;Q5TA31;Q8TAT6;P54725;P54727;Q9BZK7;P62877;Q9Y2

33000 M5;P28074;P63146;Q16531;Q9H3F6;Q13829;Q9NWF9;Q92890;P63279}  
Pathogen[ P03410] interacts with 36 human  
partners:{P62714;Q8IXJ6;Q9UKT7;Q13829;Q9UNN5;P35638;Q96SW2;P49427;Q9NWF9;Q13490;Q8WZ  
19;P54252;Q15366;Q5TA31;Q04323;P54725;Q9UNE7;Q9H3F6;Q13618;P78317;P62877;P63146;Q165  
31;Q8WW12;Q13216;Q969U6;P63279;Q9BZK7;Q13362;O60907;Q8TAT6;Q92890;Q9Y2M5;P61077;P280  
74;P54727}

33001 Pathogen[ P14075] interacts with 31 human  
partners:{Q15366;Q8TAT6;Q13618;P49427;Q9UKT7;Q8WW12;P35638;Q92890;Q13216;P63279;Q043  
23;P61077;P54252;Q96SW2;Q9NWF9;Q9UNN5;Q13490;P28074;P54727;Q16531;O60907;P78317;P627  
14;Q9BZK7;P54725;P63146;Q5TA31;Q9H3F6;Q9Y2M5;Q13829;P62877}

33002 Pathogen[ P0C206] interacts with 43 human  
partners:{Q9UNN5;Q13829;Q9NS56;P62877;P54725;Q92890;Q8WW12;O00308;Q04323;O60907;Q8IU  
Q4;Q9NWF9;Q16531;Q8TAT6;P78317;P54252;Q9H0E7;P49427;Q13216;Q5TA31;Q9UKT7;Q96SW2;Q8WZ  
19;Q13618;Q9UNE7;P54727;P62714;Q9BZK7;Q9H3F6;P55072;Q8IXJ6;Q15366;Q13362;P28074;Q9Y2  
M5;P61077;Q9BYM8;Q96B02;Q6VVB1;Q969U6;P35638;P63146;Q13490}

33003 Pathogen[ P03363] interacts with 38 human  
partners:{Q9UNN5;Q9NWF9;Q13490;Q15366;Q04323;P54727;P62714;Q13362;Q8WW12;Q16531;Q136  
18;Q9BZK7;O60907;P78317;P54252;Q6VVB1;P63146;P49427;Q92890;Q8TAT6;P62877;Q9Y2M5;Q9UN  
E7;P35638;P63279;Q9H3F6;Q96SW2;P54725;Q13829;O00308;Q5TA31;P61077;Q13216;Q969U6;Q9H0  
M0;Q9UKT7;Q8WZ17;Q5T447}

33004 [Cluster 3001]GO:0050715+P biological\_process [name] positive regulation of cytokine  
secretion [def] "Any process that activates or increases the frequency, rate or extent  
of the regulated release of cytokines from a cell or group of cells." [GOC

33005 Pathogen[ Q2Q067] interacts with 4 human partners:{Q9H4X1;Q92990;Q14653;Q8TAC9}  
33006 Pathogen[ P0C214] interacts with 3 human partners:{Q9H4X1;Q8TAC9;Q14653}  
33007 Pathogen[ P03346] interacts with 4 human partners:{Q9H4X1;Q92990;Q8TAC9;Q14653}  
33008 Pathogen[ Q85601] interacts with 3 human partners:{Q9H4X1;Q8TAC9;Q14653}  
33009 Pathogen[ P14079] interacts with 4 human partners:{Q14653;Q92990;Q8TAC9;P0DJ18}  
33010 Pathogen[ P03383] interacts with 4 human partners:{Q9H4X1;Q14653;Q8TAC9;Q92990}  
33011 Pathogen[ P03410] interacts with 5 human  
partners:{Q9H4X1;P0DJ18;Q8TAC9;Q14653;Q92990}

33012 Pathogen[ P14075] interacts with 4 human partners:{Q92990;Q9H4X1;Q14653;Q8TAC9}  
33013 Pathogen[ P0C206] interacts with 4 human partners:{Q9H4X1;Q92990;Q8TAC9;Q14653}  
33014 Pathogen[ P03363] interacts with 3 human partners:{Q14653;Q9H4X1;Q92990}

33015 [Cluster 3002]GO:0032298+P biological\_process [name] positive regulation of  
DNA-dependent DNA replication initiation [def] "Any process that activates or  
increases the frequency, rate or extent of initiation of DNA-dependent DNA replication."  
[GOC

33016 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9ULV3;P24941}  
33017 Pathogen[ P0C214] interacts with 2 human partners:{P24941;Q9ULV3}  
33018 Pathogen[ P03346] interacts with 2 human partners:{P24941;Q9ULV3}  
33019 Pathogen[ Q85601] interacts with 2 human partners:{P24941;Q9ULV3}  
33020 Pathogen[ P14079] interacts with 1 human partners:{Q9ULV3}  
33021 Pathogen[ P03383] interacts with 2 human partners:{P24941;Q9ULV3}  
33022 Pathogen[ P03410] interacts with 2 human partners:{P24941;Q9ULV3}  
33023 Pathogen[ P14075] interacts with 2 human partners:{P24941;Q9ULV3}  
33024 Pathogen[ P0C206] interacts with 2 human partners:{Q9ULV3;P24941}  
33025 Pathogen[ P03363] interacts with 2 human partners:{P24941;Q9ULV3}

33026 [Cluster 3003]GO:2001141+P biological\_process [name] regulation of RNA biosynthetic  
process [def] "Any process that modulates the frequency, rate or extent of RNA  
biosynthetic process." [GOC

33027 Pathogen[ Q2Q067] interacts with 1 human partners:{P78337}  
33028 Pathogen[ P0C214] interacts with 1 human partners:{P78337}  
33029 Pathogen[ P03346] interacts with 3 human partners:{Q15788;P78337;Q9UBR4}  
33030 Pathogen[ Q85601] interacts with 1 human partners:{P78337}  
33031 Pathogen[ P14079] interacts with 2 human partners:{P78337;Q15788}  
33032 Pathogen[ P03383] interacts with 1 human partners:{P78337}  
33033 Pathogen[ P03410] interacts with 1 human partners:{P78337}  
33034 Pathogen[ P14075] interacts with 1 human partners:{P78337}  
33035 Pathogen[ P0C206] interacts with 3 human partners:{P78337;Q9UBR4;Q15788}  
33036 Pathogen[ P03363] interacts with 1 human partners:{P78337}

33037 [Cluster 3004]GO:0061371+P biological\_process [name] determination of heart left/right  
asymmetry [def] "Determination of the asymmetric location of the heart with respect to  
the left and right halves of the organism." [GOC

33038 Pathogen[ Q2Q067] interacts with 1 human partners:{O96004}  
33039 Pathogen[ P0C214] interacts with 1 human partners:{O96004}  
33040 Pathogen[ P03346] interacts with 1 human partners:{O96004}  
33041 Pathogen[ Q85601] interacts with 1 human partners:{O96004}  
33042 Pathogen[ P14079] interacts with 1 human partners:{O96004}  
33043 Pathogen[ P03383] interacts with 1 human partners:{O96004}  
33044 Pathogen[ P03410] interacts with 1 human partners:{O96004}  
33045 Pathogen[ P14075] interacts with 1 human partners:{O96004}  
33046 Pathogen[ P0C206] interacts with 1 human partners:{O96004}  
33047 Pathogen[ P03363] interacts with 1 human partners:{O96004}

33048 [Cluster 3005]GO:0035176+P biological\_process [name] social behavior [def] "Behavior  
that occurs predominantly, or only, in individuals that are part of a group." [PMID

33049 Pathogen[ Q2Q067] interacts with 3 human partners:{P20073;P78352;Q96RL7}  
33050 Pathogen[ POC214] interacts with 4 human partners:{P78352;Q8IXF0;Q96RL7;P20073}  
33051 Pathogen[ P03346] interacts with 4 human partners:{P20073;P78352;Q8IXF0;Q96RL7}  
33052 Pathogen[ Q85601] interacts with 4 human partners:{Q96RL7;Q8IXF0;P78352;P20073}  
33053 Pathogen[ P14079] interacts with 4 human partners:{P16298;Q8IXF0;Q96RL7;P20073}  
33054 Pathogen[ P03383] interacts with 3 human partners:{Q96RL7;P20073;P78352}  
33055 Pathogen[ P03410] interacts with 5 human partners:{Q96RL7;Q8IXF0;P20073;Q9UBY8;P78352}  
33056 Pathogen[ P14075] interacts with 3 human partners:{Q96RL7;P20073;P78352}  
33057 Pathogen[ POC206] interacts with 4 human partners:{P78352;P20073;Q96RL7;Q8IXF0}  
33058 Pathogen[ P03363] interacts with 4 human partners:{P78352;P20073;Q8IXF0;Q96RL7}  
33059 [Cluster 3006]GO:0006342+P biological\_process [name] chromatin silencing [def] "Repression of transcription by altering the structure of chromatin, e.g. by conversion of large regions of DNA into an inaccessible state often called heterochromatin." [GOC  
33060 Pathogen[ Q2Q067] interacts with 5 human partners:{Q8IXJ6;Q8IYW8;Q9Y6E7;O14686;Q9UQL6}  
33061 Pathogen[ POC214] interacts with 4 human partners:{Q8IYW8;Q8IXJ6;Q9Y6E7;Q9UQL6}  
33062 Pathogen[ P03346] interacts with 6 human partners:{Q9NRZ9;Q8IXJ6;Q9Y6E7;O14686;Q8IYW8;Q9UQL6}  
33063 Pathogen[ Q85601] interacts with 5 human partners:{Q9UQL6;O14686;Q9Y6E7;Q8IXJ6;Q8IYW8}  
33064 Pathogen[ P14079] interacts with 3 human partners:{Q9UQL6;Q8IYW8;Q8IXJ6}  
33065 Pathogen[ P03383] interacts with 3 human partners:{Q9UQL6;Q8IYW8;Q9Y6E7}  
33066 Pathogen[ P03410] interacts with 3 human partners:{Q8IYW8;Q8IXJ6;Q9UQL6}  
33067 Pathogen[ P14075] interacts with 3 human partners:{Q9Y6E7;Q9UQL6;Q8IYW8}  
33068 Pathogen[ POC206] interacts with 6 human partners:{O14686;Q8IYW8;Q8IXJ6;Q9NRZ9;Q9Y6E7;Q9UQL6}  
33069 Pathogen[ P03363] interacts with 4 human partners:{Q9Y6E7;Q9UQL6;Q8IYW8;O14686}  
33070 [Cluster 3007]GO:0034088+P biological\_process [name] maintenance of mitotic sister chromatid cohesion [def] "The process in which the association between sister chromatids of a replicated chromosome is maintained as chromosomes condense, attach to the spindle in a bipolar orientation, and congress to the metaphase plate during a mitotic cell cycle." [GOC  
33071 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9Y6X3;P06400;Q9BVC3}  
33072 Pathogen[ POC214] interacts with 3 human partners:{Q9BVC3;Q9Y6X3;P06400}  
33073 Pathogen[ P03346] interacts with 3 human partners:{P06400;Q9Y6X3;Q9BVC3}  
33074 Pathogen[ Q85601] interacts with 3 human partners:{P06400;Q9BVC3;Q9Y6X3}  
33075 Pathogen[ P14079] interacts with 2 human partners:{Q9BVC3;Q9Y6X3}  
33076 Pathogen[ P03383] interacts with 3 human partners:{Q9Y6X3;P06400;Q9BVC3}  
33077 Pathogen[ P03410] interacts with 2 human partners:{P06400;Q9BVC3}  
33078 Pathogen[ P14075] interacts with 3 human partners:{Q9Y6X3;Q9BVC3;P06400}  
33079 Pathogen[ POC206] interacts with 3 human partners:{Q9Y6X3;Q9BVC3;P06400}  
33080 Pathogen[ P03363] interacts with 3 human partners:{Q9BVC3;P06400;Q9Y6X3}  
33081 [Cluster 3008]GO:0035518+P biological\_process [name] histone H2A monoubiquitination [def] "The modification of histone H2A by addition of a single ubiquitin group. Steady-state modification of histone H2A occurs at lysine 119 (H2A-K119) in metazoans, and at the equivalent residue in other organisms." [PMID  
33082 Pathogen[ Q2Q067] interacts with 7 human partners:{Q9BSM1;Q8NHM5;Q6W2J9;Q99496;Q8N488;P63208;Q06587}  
33083 Pathogen[ POC214] interacts with 8 human partners:{Q9BSM1;P63208;Q6W2J9;Q8N488;Q06587;Q99496;Q8IYW5;Q8NHM5}  
33084 Pathogen[ P03346] interacts with 8 human partners:{Q9BSM1;P63208;Q99496;Q8IYW5;Q8NHM5;Q8N488;Q06587;Q6W2J9}  
33085 Pathogen[ Q85601] interacts with 8 human partners:{P63208;Q9BSM1;Q8NHM5;Q99496;Q8IYW5;Q8N488;Q06587;Q6W2J9}  
33086 Pathogen[ P14079] interacts with 7 human partners:{Q8NHM5;Q6W2J9;Q99496;Q8N488;P63208;Q9BSM1;Q06587}  
33087 Pathogen[ P03383] interacts with 6 human partners:{Q06587;P63208;Q6W2J9;Q9BSM1;Q8N488;Q99496}  
33088 Pathogen[ P03410] interacts with 6 human partners:{Q9BSM1;Q99496;Q6W2J9;P63208;Q8N488;Q06587}  
33089 Pathogen[ P14075] interacts with 6 human partners:{Q8N488;P63208;Q06587;Q6W2J9;Q99496;Q9BSM1}  
33090 Pathogen[ POC206] interacts with 8 human partners:{Q8IYW5;Q6W2J9;P63208;Q8N488;Q06587;Q8NHM5;Q9BSM1;Q99496}  
33091 Pathogen[ P03363] interacts with 7 human partners:{Q8N488;Q99496;Q8IYW5;Q9BSM1;Q06587;Q6W2J9;P63208}  
33092 [Cluster 3009]GO:0008202+P biological\_process [name] steroid metabolic process [def] "The chemical reactions and pathways involving steroids, compounds with a 1,2,cyclopentanoperhydrophenanthrene nucleus." [ISBN  
33093 Pathogen[ Q2Q067] interacts with 6 human partners:{P15121;O00204;P36956;Q9NZC7;Q9BXP1;P14324}  
33094 Pathogen[ POC214] interacts with 8 human partners:{Q13907;Q9BXS1;Q9NZC7;P15121;Q9BXP1;O00204;P14324;Q06520}  
33095 Pathogen[ P03346] interacts with 9 human partners:{O00204;Q06520;P36956;Q12772;Q9BXP1;P15121;Q9NZC7;P14324;O75469}

33096 Pathogen[ Q85601] interacts with 8 human partners:{Q9NZC7;Q9BPX1;Q12772;P36956;P14324;P15121;O00204;Q13907}

33097 Pathogen[ P14079] interacts with 12 human partners:{Q9BXS1;Q9Y5U4;Q13907;P14324;Q0VD83;Q12772;Q9NZC7;O75469;Q9UKR5;P53602;P36956;O15503}

33098 Pathogen[ P03383] interacts with 2 human partners:{P14324;Q9BPX1}

33099 Pathogen[ P03410] interacts with 12 human partners:{P53602;P36956;Q9BPX1;Q9NZC7;Q9Y5U4;O00204;Q12772;Q0VD83;Q13907;O15503;P14324;Q9BXS1}

33100 Pathogen[ P14075] interacts with 1 human partners:{P14324}

33101 Pathogen[ P0C206] interacts with 10 human partners:{O75469;P36956;Q9BPX1;P14324;Q13907;Q9BXS1;O00204;Q9NZC7;P15121;Q12772}

33102 Pathogen[ P03363] interacts with 3 human partners:{Q9BPX1;O00204;Q06520}

33103 [Cluster 3010]GO:0048478+P biological\_process [name] replication fork protection [def] "Any process that prevents the collapse of stalled replication forks." [GOC

33104 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BVW5}

33105 Pathogen[ P0C214] interacts with 1 human partners:{Q9BVW5}

33106 Pathogen[ P03346] interacts with 2 human partners:{P51587;Q9BVW5}

33107 Pathogen[ Q85601] interacts with 2 human partners:{P51587;Q9BVW5}

33108 Pathogen[ P14079] interacts with 2 human partners:{P51587;Q9BVW5}

33109 Pathogen[ P03383] interacts with 1 human partners:{Q9BVW5}

33110 Pathogen[ P03410] interacts with 2 human partners:{Q9BVW5;P51587}

33111 Pathogen[ P14075] interacts with 1 human partners:{Q9BVW5}

33112 Pathogen[ P0C206] interacts with 2 human partners:{P51587;Q9BVW5}

33113 Pathogen[ P03363] interacts with 1 human partners:{Q9BVW5}

33114 [Cluster 3011]GO:0007601+P biological\_process [name] visual perception [def] "The series of events required for an organism to receive a visual stimulus, convert it to a molecular signal, and recognize and characterize the signal. Visual stimuli are detected in the form of photons and are processed to form an image." [GOC

33115 Pathogen[ Q2Q067] interacts with 18 human partners:{P78424;O14639;Q96IS3;P05813;Q99456;Q3B820;Q13432;P54845;Q99504;O43924;O15265;O43186;P07315;P58304;Q3SYG4;P07320;P02489;Q99814}

33116 Pathogen[ P0C214] interacts with 19 human partners:{P07315;P02489;O43186;P11844;Q13515;O14639;P05813;P18545;P26998;Q3SYG4;Q99504;Q99456;Q99814;Q13956;O15265;Q3B820;P54845;P07320;Q13432}

33117 Pathogen[ P03346] interacts with 33 human partners:{O15265;P78424;Q9NZR4;O95677;O14639;Q13515;P07320;P02489;P54845;O43186;P58304;Q96KN7;Q8N8E2;Q13432;P07316;Q3SYG4;P53611;Q99814;Q3B820;P78411;O95475;P07315;P05813;Q99456;Q96IS3;Q8NI36;Q99504;Q8IWN7;O95343;Q9UIW0;Q92834;O43924;Q15319}

33118 Pathogen[ Q85601] interacts with 22 human partners:{O14639;P78424;P02489;P07315;O43924;O15265;O95677;P54845;Q96IS3;Q99504;Q99814;Q92834;Q13515;P58304;Q3B820;Q3SYG4;P11844;Q13432;Q99456;Q8N8E2;P07320;P05813}

33119 Pathogen[ P14079] interacts with 46 human partners:{P07320;P07316;P05813;Q99814;P11844;Q99456;Q9Y5M6;O43924;P26998;Q9P0W8;O14639;Q92834;Q8N8E2;Q92902;P58304;Q8N3I7;P02489;P54845;Q8IWN7;Q8IWN7;P53673;O75503;P56715;P18545;Q8N6F1;Q13956;P53674;Q7Z3Z2;Q00LT1;P78424;Q16378;Q13432;Q3B820;Q96IS3;O15265;Q99504;Q13515;A6NGG8;Q9NWW5;P07315;Q3SYG4;Q13371;Q9H6K4;Q96KN7;Q8N8E2;P43320}

33120 Pathogen[ P03383] interacts with 14 human partners:{Q99504;Q13515;P11844;O14639;Q99456;Q13432;P54845;O15265;Q3SYG4;O43186;Q3B820;P07320;P05813;P07315}

33121 Pathogen[ P03410] interacts with 45 human partners:{Q3B820;P43320;Q8N8E2;P07315;Q8N8E2;P26998;Q9H6K4;Q9NWW5;Q99814;Q3SYG4;P54845;Q92902;P11844;Q96KN7;Q13515;Q13956;O14639;Q8N6F1;Q7Z3Z2;P07320;O75503;P53674;P02489;P18545;A6NGG8;Q13371;Q8N3I7;Q16378;Q92834;O43924;Q99504;P05813;P53611;Q96IS3;Q00LT1;Q99456;Q9UBY8;P07316;O15265;Q8IWN7;Q9Y5M6;Q13432;Q8IWN7;P78424;P56715}

33122 Pathogen[ P14075] interacts with 18 human partners:{P53673;Q3SYG4;Q99504;P07320;O15265;P05813;O43186;Q13515;P11844;Q9Y5M6;Q9H6K4;P54845;Q99456;O14639;P26998;P07315;Q13432;Q3B820}

33123 Pathogen[ P0C206] interacts with 37 human partners:{P78424;P56715;Q99504;Q13432;P18545;Q3SYG4;Q13515;Q9Y5M6;Q8N8E2;P78411;O15265;P53673;P07320;P54845;Q8N3I7;Q96IS3;P07315;Q9H6K4;Q96KN7;P05813;P11844;Q8IWN7;P26998;Q13956;A6NGG8;Q3B820;P07316;Q8N8E2;O14639;Q99814;O43924;P02489;P53611;Q92834;Q99456;O95677;P58304}

33124 Pathogen[ P03363] interacts with 35 human partners:{Q9UIW0;P36575;Q9NZR4;P56715;Q3B820;P78424;P07316;O43924;Q99456;P58304;Q96IS3;P78411;P11844;P54845;Q9NZN9;P07320;Q3SYG4;Q92902;Q13432;O43186;Q99504;O15265;Q99814;P07315;Q92834;Q8IWN7;P02489;O95343;Q8N8E2;O95475;O14639;Q13515;Q96KN7;Q15319;P05813}

33125 [Cluster 3012]GO:0003184+P biological\_process [name] pulmonary valve morphogenesis [def] "The process in which the structure of the pulmonary valve is generated and organized." [GOC

33126 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9NQ87;Q9Y5J3}

33127 Pathogen[ P0C214] interacts with 2 human partners:{Q9Y5J3;Q9NQ87}

33128 Pathogen[ P03346] interacts with 2 human partners:{Q9Y5J3;Q9NQ87}

33129 Pathogen[ Q85601] interacts with 2 human partners:{Q9NQ87;Q9Y5J3}

33130 Pathogen[ P14079] interacts with 2 human partners:{Q9Y5J3;Q9NQ87}

33131 Pathogen[ P03383] interacts with 1 human partners:{Q9NQ87}  
33132 Pathogen[ P03410] interacts with 2 human partners:{Q9Y5J3;Q9NQ87}  
33133 Pathogen[ P14075] interacts with 1 human partners:{Q9NQ87}  
33134 Pathogen[ P0C206] interacts with 2 human partners:{Q9NQ87;Q9Y5J3}  
33135 Pathogen[ P03363] interacts with 2 human partners:{Q9Y5J3;Q9NQ87}  
33136 [Cluster 3013]GO:0001829+P biological\_process [name] trophoctodermal cell differentiation [def] "The process in which a relatively unspecialized cell acquires the specialized features of a trophoctoderm cell." [GOC  
33137 Pathogen[ Q2Q067] interacts with 5 human partners:{O96004;Q92754;Q02447;P08047;P11831}  
33138 Pathogen[ P0C214] interacts with 6 human partners:{P17275;P11831;Q92754;Q02447;O96004;P08047}  
33139 Pathogen[ P03346] interacts with 9 human partners:{P11831;Q99626;P17275;Q9BPY8;Q92754;P08047;O96004;Q02447;Q9UJU5}  
33140 Pathogen[ Q85601] interacts with 6 human partners:{P11831;Q92754;O96004;P08047;Q02447;P17275}  
33141 Pathogen[ P14079] interacts with 4 human partners:{O96004;Q02447;P17275;Q92754}  
33142 Pathogen[ P03383] interacts with 6 human partners:{P11831;P08047;O96004;Q02447;Q92754;P17275}  
33143 Pathogen[ P03410] interacts with 6 human partners:{P11831;O96004;Q02447;P17275;P08047;Q92754}  
33144 Pathogen[ P14075] interacts with 6 human partners:{P11831;P17275;Q92754;O96004;Q02447;P08047}  
33145 Pathogen[ P0C206] interacts with 6 human partners:{P17275;O96004;Q92754;P08047;Q02447;P11831}  
33146 Pathogen[ P03363] interacts with 9 human partners:{Q99626;Q02447;P17275;P11831;Q9BPY8;O96004;P08047;Q9UJU5;Q92754}  
33147 [Cluster 3014]GO:0046545+P biological\_process [name] development of primary female sexual characteristics [def] "The process whose specific outcome is the progression of the primary female sexual characteristics over time, from their formation to the mature structure. The primary female sexual characteristics are the ovaries, and they develop in response to sex hormone secretion." [GOC  
33148 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UI36}  
33149 Pathogen[ P0C214] interacts with 1 human partners:{Q9UI36}  
33150 Pathogen[ P03346] interacts with 1 human partners:{Q9UI36}  
33151 Pathogen[ Q85601] interacts with 1 human partners:{Q9UI36}  
33152 Pathogen[ P14079] interacts with 1 human partners:{Q9UI36}  
33153 Pathogen[ P03383] interacts with 1 human partners:{Q9UI36}  
33154 Pathogen[ P03410] interacts with 1 human partners:{Q9UI36}  
33155 Pathogen[ P14075] interacts with 1 human partners:{Q9UI36}  
33156 Pathogen[ P0C206] interacts with 1 human partners:{Q9UI36}  
33157 Pathogen[ P03363] interacts with 1 human partners:{Q9UI36}  
33158 [Cluster 3015]GO:0007420+P biological\_process [name] brain development [def] "The process whose specific outcome is the progression of the brain over time, from its formation to the mature structure. Brain development begins with patterning events in the neural tube and ends with the mature structure that is the center of thought and emotion. The brain is responsible for the coordination and control of bodily activities and the interpretation of information from the senses (sight, hearing, smell, etc.)." [GOC  
33159 Pathogen[ Q2Q067] interacts with 29 human partners:{Q9UPP1;P55957;Q9UMX3;P36402;Q9H0F6;Q96SN8;Q99966;Q15699;O43236;P51816;P51959;Q15102;O00255;P11161;P42575;P35226;P54920;Q07687;Q14686;Q8IZT6;O95817;P47928;Q05086;Q04743;P28370;Q66K74;Q9NNX9;Q12830;Q96JB5}  
33160 Pathogen[ P0C214] interacts with 35 human partners:{Q05086;P35226;O95817;P46379;P51959;Q96SN8;O15056;P55957;P12277;Q9H0F6;P54920;P68402;Q9NNX9;Q14686;Q15102;Q99966;P35580;Q07687;P47928;P28370;Q9UMX3;P51816;P36402;P11161;O14727;Q14061;O43236;Q8IZT6;Q15699;Q9UPP1;P42575;O00255;Q12830;Q96JB5;Q66K74}  
33161 Pathogen[ P03346] interacts with 47 human partners:{Q12830;P50135;Q99966;P36402;Q8NFW5;P35226;P42575;Q68CZ1;P55957;Q04743;Q92858;Q66K74;Q04741;Q9UBX0;Q9H0F6;A2RU54;O15056;Q16650;Q15699;Q9HCS4;Q14863;O43236;O95096;Q15102;O00255;Q96SN8;O95817;P51587;P46379;P54920;Q96JB5;Q9UPP1;P11161;P28370;Q8IZT6;Q9NNX9;Q05086;P51959;Q9UMX3;P54257;Q9NQZ2;Q9Y2J0;O14727;O95343;P51816;P47928;Q14686}  
33162 Pathogen[ Q85601] interacts with 33 human partners:{P54920;Q96SN8;Q99966;Q66K74;P46379;Q9UMX3;Q9H0F6;P51959;Q8IZT6;Q12830;Q14686;Q9UBX0;Q96JB5;P42575;Q15699;P55957;O00255;Q9UPP1;Q14061;P36402;P28370;P35226;Q9NNX9;P35580;Q05086;Q9HCS4;O95817;P11161;P51587;Q07687;O43236;P47928;Q15102}  
33163 Pathogen[ P14079] interacts with 45 human partners:{P51959;O43181;P54257;Q24JP5;P61421;Q16517;O95817;P50135;Q66K74;P28370;Q68CZ1;Q15699;P51587;Q99966;P36402;Q15078;Q9NNX9;Q14061;O75503;P11161;Q9NX09;Q9UPP1;Q15102;Q9NQZ2;P48681;Q12830;Q4AC94;Q15042;Q9UMX3;P35226;Q04743;Q07687;Q96SZ6;Q9H0F6;Q96JB5;P51816;P42575;O00255;Q96SN8;Q14686;P54920;P47928;Q8IZT6;O43236;P55957}  
33164 Pathogen[ P03383] interacts with 22 human partners:{Q12830;Q9H0F6;P54920;Q07687;O43236;Q96SN8;Q14686;P28370;P55957;Q9UMX3;Q96JB5;P51816;Q9NNX9;P51959;O00255;P36402;P35580;P11161;P47928;Q15699;Q9UPP1;P35226}

33165 Pathogen[ P03410] interacts with 45 human partners: {Q9UPP1;Q9NNX9;Q14061;Q9Y2J0;Q16517;Q9NQZ2;Q14686;P42575;P36402;P61421;Q4AC94;Q96SN8;Q12830;Q24JP5;Q95817;P55957;Q8IZT6;Q96JB5;O75503;Q07687;O43236;P51959;Q9UMX3;P51587;P47928;Q15699;Q66K74;P54257;Q15102;P35580;Q9HCS4;Q43181;P51816;Q68CZ1;P35226;O00255;Q04743;P11161;Q9NX09;P50135;Q15042;P28370;Q9H0F6;P54920;Q99966}

33166 Pathogen[ P14075] interacts with 23 human partners: {P55957;Q15102;P51816;Q9UMX3;O43236;P51959;Q14686;Q9UPP1;P11161;P54920;P47928;Q96SN8;Q9NNX9;Q96JB5;Q07687;O00255;Q12830;P28370;P36402;Q15699;P35226;Q14061;Q9H0F6}

33167 Pathogen[ P0C206] interacts with 39 human partners: {Q07687;Q96SN8;P11161;Q04743;P54920;P51587;Q9Y2J0;P35226;Q9UMX3;O00255;Q05086;Q9UPP1;P51816;Q8IZT6;Q9HCS4;Q15699;O43236;Q66K74;Q96JB5;P51959;Q15102;Q14686;P28370;Q99966;Q9H0F6;O95817;Q14863;P42575;Q9NQZ2;P47928;Q9UBX0;P35580;P46379;Q14061;P36402;P50135;Q12830;Q9NNX9;P55957}

33168 Pathogen[ P03363] interacts with 36 human partners: {P46379;Q15699;Q8NFW5;P55957;Q12830;Q66K74;P36402;Q14863;P50135;P54920;Q9HCS4;Q14686;Q05086;O95817;Q9NNX9;P35226;O15056;P47928;P54257;Q9H0F6;P51959;P51816;Q04741;A2RU54;P28370;O95343;Q96JB5;Q07687;Q8IZT6;Q9UMX3;O43236;Q15102;Q04743;Q96SN8;Q9UBX0;P11161}

33169 [Cluster 3016]GO:0072368+P biological\_process [name] regulation of lipid transport by negative regulation of transcription from RNA polymerase II promoter [def] "Any process that modulates the frequency, rate or extent of lipid transport by stopping, preventing, or reducing the frequency, rate or extent of transcription from an RNA polymerase II promoter." [GOC

33170 Pathogen[ Q2Q067] interacts with 1 human partners: {075376}

33171 Pathogen[ P0C214] interacts with 1 human partners: {075376}

33172 Pathogen[ P03346] interacts with 2 human partners: {Q12772;075376}

33173 Pathogen[ Q85601] interacts with 2 human partners: {Q12772;075376}

33174 Pathogen[ P14079] interacts with 2 human partners: {Q12772;075376}

33175 Pathogen[ P03383] interacts with 1 human partners: {075376}

33176 Pathogen[ P03410] interacts with 2 human partners: {075376;Q12772}

33177 Pathogen[ P14075] interacts with 1 human partners: {075376}

33178 Pathogen[ P0C206] interacts with 2 human partners: {075376;Q12772}

33179 Pathogen[ P03363] interacts with 1 human partners: {075376}

33180 [Cluster 3017]GO:0051096+P biological\_process [name] positive regulation of helicase activity [def] "Any process that activates or increases the activity of a helicase." [GOC

33181 Pathogen[ Q2Q067] interacts with 1 human partners: {Q04837}

33182 Pathogen[ P0C214] interacts with 2 human partners: {P20585;Q04837}

33183 Pathogen[ P03346] interacts with 3 human partners: {P20585;Q9NUX5;Q04837}

33184 Pathogen[ Q85601] interacts with 2 human partners: {P20585;Q04837}

33185 Pathogen[ P14079] interacts with 4 human partners: {Q04837;P20585;Q9NUX5;P52701}

33186 Pathogen[ P03383] interacts with 1 human partners: {Q04837}

33187 Pathogen[ P03410] interacts with 4 human partners: {Q9NUX5;P20585;Q04837;P52701}

33188 Pathogen[ P14075] interacts with 1 human partners: {Q04837}

33189 Pathogen[ P0C206] interacts with 4 human partners: {P52701;Q04837;P20585;Q9NUX5}

33190 Pathogen[ P03363] interacts with 3 human partners: {P20585;Q9NUX5;Q04837}

33191 [Cluster 3018]GO:0042267+P biological\_process [name] natural killer cell mediated cytotoxicity [def] "The directed killing of a target cell by a natural killer cell through the release of granules containing cytotoxic mediators or through the engagement of death receptors." [GOC

33192 Pathogen[ Q2Q067] interacts with 2 human partners: {Q06830;P53567}

33193 Pathogen[ P0C214] interacts with 3 human partners: {P53567;Q99698;Q06830}

33194 Pathogen[ P03346] interacts with 3 human partners: {Q99698;Q06830;P53567}

33195 Pathogen[ Q85601] interacts with 3 human partners: {P53567;Q06830;Q99698}

33196 Pathogen[ P14079] interacts with 2 human partners: {P53567;Q99698}

33197 Pathogen[ P03383] interacts with 1 human partners: {P53567}

33198 Pathogen[ P03410] interacts with 3 human partners: {P53567;Q99698;Q06830}

33199 Pathogen[ P14075] interacts with 1 human partners: {P53567}

33200 Pathogen[ P0C206] interacts with 3 human partners: {P53567;Q99698;Q06830}

33201 Pathogen[ P03363] interacts with 2 human partners: {P53567;Q99698}

33202 [Cluster 3019]GO:0048596+P biological\_process [name] embryonic camera-type eye morphogenesis [def] "The process in which the anatomical structures of the eye are generated and organized during embryonic development." [GOC

33203 Pathogen[ Q2Q067] interacts with 4 human partners: {Q02447;P08047;Q8NHM5;P02489}

33204 Pathogen[ P0C214] interacts with 4 human partners: {P02489;Q02447;P08047;Q8NHM5}

33205 Pathogen[ P03346] interacts with 5 human partners: {P02489;Q86Z02;P08047;Q8NHM5;Q02447}

33206 Pathogen[ Q85601] interacts with 4 human partners: {P02489;P08047;Q8NHM5;Q02447}

33207 Pathogen[ P14079] interacts with 3 human partners: {Q02447;Q8NHM5;P02489}

33208 Pathogen[ P03383] interacts with 2 human partners: {P08047;Q02447}

33209 Pathogen[ P03410] interacts with 3 human partners: {Q02447;P02489;P08047}

33210 Pathogen[ P14075] interacts with 2 human partners: {Q02447;P08047}

33211 Pathogen[ P0C206] interacts with 4 human partners: {P08047;Q02447;Q8NHM5;P02489}

33212 Pathogen[ P03363] interacts with 3 human partners: {Q02447;P02489;P08047}

33213 [Cluster 3020]GO:0034509+P biological\_process [name] centromeric core chromatin

assembly [def] "The assembly of chromatin into the specialized structure characteristic of the centromeric core region, defined by the presence of the variant histone CENP-A." [GOC

33214 Pathogen[ Q2Q067] interacts with 2 human partners:{Q5EE01;Q8NCD3}

33215 Pathogen[ POC214] interacts with 2 human partners:{Q5EE01;Q8NCD3}

33216 Pathogen[ P03346] interacts with 2 human partners:{Q5EE01;Q8NCD3}

33217 Pathogen[ Q85601] interacts with 2 human partners:{Q5EE01;Q8NCD3}

33218 Pathogen[ P14079] interacts with 2 human partners:{Q5EE01;Q8NCD3}

33219 Pathogen[ P03383] interacts with 2 human partners:{Q5EE01;Q8NCD3}

33220 Pathogen[ P03410] interacts with 2 human partners:{Q8NCD3;Q5EE01}

33221 Pathogen[ P14075] interacts with 2 human partners:{Q5EE01;Q8NCD3}

33222 Pathogen[ POC206] interacts with 2 human partners:{Q5EE01;Q8NCD3}

33223 Pathogen[ P03363] interacts with 2 human partners:{Q5EE01;Q8NCD3}

33224 [Cluster 3021]GO:0090200+P biological\_process [name] positive regulation of release of cytochrome c from mitochondria [def] "Any process that increases the rate, frequency or extent of release of cytochrome c from mitochondria, the process in which cytochrome c is enabled to move from the mitochondrial intermembrane space into the cytosol, which is an early step in apoptosis and leads to caspase activation." [GOC

33225 Pathogen[ Q2Q067] interacts with 9 human partners:{P55957;Q9BXH1;Q13794;Q9GZY8;Q96IL0;Q96LC9;O00198;Q12983;Q96A26}

33226 Pathogen[ POC214] interacts with 10 human partners:{O00198;Q92934;Q96LC9;Q13015;P55957;Q96IL0;Q13794;Q9BXH1;Q12983;Q9GZY8}

33227 Pathogen[ P03346] interacts with 10 human partners:{Q96LC9;Q96IL0;P55957;Q96A26;Q12983;O00198;Q13015;Q9BXH1;Q9GZY8;Q13794}

33228 Pathogen[ Q85601] interacts with 9 human partners:{Q96LC9;Q9BXH1;O00198;P55957;Q96IL0;Q13015;Q12983;Q9GZY8;Q13794}

33229 Pathogen[ P14079] interacts with 12 human partners:{Q13323;Q9BXH1;Q96IL0;Q92934;Q13794;Q12983;Q96A26;Q96LC9;O00198;Q9GZY8;Q13015;P55957}

33230 Pathogen[ P03383] interacts with 9 human partners:{Q96LC9;P55957;Q96A26;Q12983;Q13015;O00198;Q13794;Q9BXH1;Q9GZY8}

33231 Pathogen[ P03410] interacts with 12 human partners:{Q12983;Q9GZY8;Q13015;Q9BXH1;Q96IL0;O00198;Q96LC9;Q92934;Q13794;P55957;Q96A26;Q13323}

33232 Pathogen[ P14075] interacts with 9 human partners:{Q12983;P55957;Q96A26;Q13015;Q9GZY8;Q96LC9;Q9BXH1;Q13794;O00198}

33233 Pathogen[ POC206] interacts with 11 human partners:{Q9BXH1;Q96A26;Q96LC9;Q92934;Q12983;Q13015;O00198;Q9GZY8;Q96IL0;P55957;Q13794}

33234 Pathogen[ P03363] interacts with 7 human partners:{P55957;Q96LC9;Q13794;Q13015;O00198;Q9BXH1;Q9GZY8}

33235 [Cluster 3022]GO:0060965+P biological\_process [name] negative regulation of gene silencing by miRNA [def] "Any process that decreases the rate, frequency, or extent of the downregulation of gene expression through the action of microRNAs (miRNAs), endogenous 21-24 nucleotide small RNAs processed from stem-loop RNA precursors (pre-miRNAs). Once incorporated into a RNA-induced silencing complex (RISC), miRNAs can downregulate gene expression by either of two posttranscriptional mechanisms

33236 Pathogen[ Q2Q067] interacts with 1 human partners:{Q01860}

33237 Pathogen[ POC214] interacts with 1 human partners:{Q01860}

33238 Pathogen[ P03346] interacts with 1 human partners:{Q01860}

33239 Pathogen[ Q85601] interacts with 1 human partners:{Q01860}

33240 Pathogen[ P14079] interacts with 1 human partners:{Q01860}

33241 Pathogen[ P03383] interacts with 1 human partners:{Q01860}

33242 Pathogen[ P03410] interacts with 1 human partners:{Q01860}

33243 Pathogen[ P14075] interacts with 1 human partners:{Q01860}

33244 Pathogen[ POC206] interacts with 1 human partners:{Q01860}

33245 Pathogen[ P03363] interacts with 1 human partners:{Q01860}

33246 [Cluster 3023]GO:0008544+P biological\_process [name] epidermis development [def] "The process whose specific outcome is the progression of the epidermis over time, from its formation to the mature structure. The epidermis is the outer epithelial layer of a plant or animal, it may be a single layer that produces an extracellular material (e.g. the cuticle of arthropods) or a complex stratified squamous epithelium, as in the case of many vertebrate species." [GOC

33247 Pathogen[ Q2Q067] interacts with 31 human partners:{P19012;Q9UKI9;P35908;P35321;Q03052;Q15323;P08779;Q32MQ0;P78385;Q9H0F6;P13646;Q14532;P15924;P20265;P78545;P22528;P04264;Q04695;P35527;Q9UBC9;P22531;P78386;P13645;P42768;P13647;P42771;Q8TE85;Q01826;P02533;P26371;O76011}

33248 Pathogen[ POC214] interacts with 30 human partners:{Q03052;O76011;Q14532;P35321;P35527;P04264;P13646;P02533;P15924;Q9H0F6;Q9UKI9;P35908;P08779;P78386;P20265;Q8TE85;Q04695;P78385;P22531;P42771;P19012;Q15323;Q01826;P13647;P78545;P42768;Q9UBC9;P26371;Q32MQ0;P13645}

33249 Pathogen[ P03346] interacts with 42 human partners:{P13646;P15924;P19012;P35321;P35325;P29373;Q32MQ0;P08779;Q03052;Q15323;O14633;P35527;Q95171;P42768;P35326;Q9UKI9;Q92826;Q9BYE4;Q14532;P78386;Q9H0F6;P42771;Q8TE85;Q9UBC9;Q01469;P20265;P35908;Q04695;Q96RM1;P02533;P22531;P13645;Q01954;P22532;O76011;P26371;P13647;P22528;P78545;P04264;P78385;Q01826}



33250 Pathogen[ Q85601] interacts with 31 human partners: {P13646;Q8TE85;P35321;P78386;P02533;P08779;Q03052;Q32MQ0;P78545;Q9H0F6;Q01954;P15924;Q04695;P04264;P22531;P42768;P19012;P13645;Q01826;Q9UKI9;P42771;Q15323;P78385;O76011;P13647;Q14532;P35527;P35908;O95171;Q9UBC9;P20265}

33251 Pathogen[ P14079] interacts with 40 human partners: {Q32MQ0;P22528;P22531;P35326;P08779;P35908;Q14532;P20265;O76011;Q8TE85;P15924;Q9BYE4;Q01826;P13646;P26371;Q15323;P35527;Q96RM1;Q04695;P02533;O14633;P78385;P13645;P35321;P35325;P78386;O95171;Q92817;Q9UBC9;P22532;Q9H0F6;Q5T750;Q9UKI9;P78545;P04264;Q03052;Q01469;P13647;P42768;P42771}

33252 Pathogen[ P03383] interacts with 35 human partners: {P15924;Q9BYE4;P35321;P02533;Q9H0F6;Q9UKI9;Q32MQ0;P26371;Q01826;P13645;O76011;Q8TE85;P78386;P35527;Q9UBC9;P08779;Q96RM1;Q04695;P22531;P42768;P22532;P04264;P22528;P42771;Q15323;P35908;O14633;P13647;P78545;P78385;P13646;P19012;P20265;Q14532;P35325}

33253 Pathogen[ P03410] interacts with 41 human partners: {P78385;P13645;P42771;P13646;P02533;P15924;O76011;Q15323;P22531;Q9UBC9;P35325;P04264;P22528;Q9BYE4;P78545;P35527;Q5T750;P35321;P42768;Q03052;O95171;P08779;Q8TE85;P35908;Q32MQ0;O14633;Q14532;Q01826;P78386;Q96RM1;Q04695;Q9UKI9;P26371;P22532;P35326;Q01469;P20265;P13647;Q92817;Q15517;Q9H0F6}

33254 Pathogen[ P14075] interacts with 36 human partners: {P35321;P22532;Q9UBC9;P35325;P78545;Q8TE85;Q5T750;P42768;P42771;P20265;P19012;P13645;P78385;Q01826;Q15323;Q04695;P35908;Q96RM1;Q14532;P26371;P08779;P22531;P04264;P13646;P22528;P78386;Q32MQ0;Q9BYE4;P13647;Q9UKI9;O76011;O14633;P35527;P02533;Q9H0F6;P15924}

33255 Pathogen[ P0C206] interacts with 42 human partners: {Q8TE85;Q9BYE4;Q32MQ0;P08779;P35527;P78385;Q9UBC9;P35325;P22531;P04264;P13645;Q96RM1;P19012;P42771;P78386;P29373;P35326;O14633;Q14532;P13647;P35321;O76011;Q9UKI9;Q03052;P78545;P26371;P15924;Q9H0F6;P22532;P20265;Q01826;P42768;Q01469;Q15323;Q5T750;P02533;P13646;O95171;P35908;Q04695;Q01954;P22528}

33256 Pathogen[ P03363] interacts with 43 human partners: {P78385;P02533;P08779;P22531;P13645;P22532;P35321;Q9BYE4;Q01826;Q9UBC9;Q9UKI9;Q01469;P42768;O76011;Q15323;P35326;P15924;P35908;Q96RM1;Q8TE85;P29373;P35325;P13647;Q14532;P78545;Q13480;Q32MQ0;P35527;P22528;O14633;P20265;O95171;Q92826;Q01954;Q9H0F6;P78386;P13646;P04264;P26371;Q92817;P42771;Q03052;Q04695}

33257 [Cluster 3024]GO:0006555+P biological\_process [name] methionine metabolic process [def] "The chemical reactions and pathways involving methionine (2-amino-4-(methylthio)butanoic acid), a sulfur-containing, essential amino acid found in peptide linkage in proteins." [GOC]

33258 Pathogen[ Q2Q067] interacts with 1 human partners: {Q14749}

33259 Pathogen[ P0C214] interacts with 4 human partners: {P42898;Q9UJ68;Q14749;P52788}

33260 Pathogen[ P03346] interacts with 2 human partners: {Q9UBK8;Q14749}

33261 Pathogen[ Q85601] interacts with 1 human partners: {Q14749}

33262 Pathogen[ P14079] interacts with 3 human partners: {Q14749;Q9UJ68;P42898}

33263 Pathogen[ P03383] interacts with 1 human partners: {Q14749}

33264 Pathogen[ P03410] interacts with 4 human partners: {Q14749;P52788;Q9UJ68;P42898}

33265 Pathogen[ P14075] interacts with 1 human partners: {Q14749}

33266 Pathogen[ P0C206] interacts with 2 human partners: {Q9UJ68;Q14749}

33267 Pathogen[ P03363] interacts with 1 human partners: {Q14749}

33268 [Cluster 3025]GO:0006403+P biological\_process [name] RNA localization [def] "A process in which RNA is transported to, or maintained in, a specific location." [GOC]

33269 Pathogen[ Q2Q067] interacts with 2 human partners: {P25490;O94906}

33270 Pathogen[ P0C214] interacts with 2 human partners: {Q9NZI8;O94906}

33271 Pathogen[ P03346] interacts with 3 human partners: {P25490;Q9NZI8;O94906}

33272 Pathogen[ Q85601] interacts with 2 human partners: {P25490;O94906}

33273 Pathogen[ P14079] interacts with 2 human partners: {O94906;P25490}

33274 Pathogen[ P03383] interacts with 1 human partners: {O94906}

33275 Pathogen[ P03410] interacts with 2 human partners: {P25490;O94906}

33276 Pathogen[ P14075] interacts with 1 human partners: {O94906}

33277 Pathogen[ P0C206] interacts with 2 human partners: {P25490;O94906}

33278 Pathogen[ P03363] interacts with 3 human partners: {P25490;Q9NZI8;O94906}

33279 [Cluster 3026]GO:0010669+P biological\_process [name] epithelial structure maintenance [def] "A tissue homeostatic process required for the maintenance of epithelial structure." [GOC]

33280 Pathogen[ Q2Q067] interacts with 3 human partners: {P11831;O43679;Q86U70}

33281 Pathogen[ P0C214] interacts with 3 human partners: {P11831;Q86U70;O43679}

33282 Pathogen[ P03346] interacts with 3 human partners: {Q86U70;P11831;O43679}

33283 Pathogen[ Q85601] interacts with 3 human partners: {P11831;Q86U70;O43679}

33284 Pathogen[ P14079] interacts with 2 human partners: {O43679;Q86U70}

33285 Pathogen[ P03383] interacts with 3 human partners: {P11831;Q86U70;O43679}

33286 Pathogen[ P03410] interacts with 3 human partners: {P11831;O43679;Q86U70}

33287 Pathogen[ P14075] interacts with 3 human partners: {Q86U70;P11831;O43679}

33288 Pathogen[ P0C206] interacts with 3 human partners: {O43679;P11831;Q86U70}

33289 Pathogen[ P03363] interacts with 3 human partners: {Q86U70;O43679;P11831}

33290 [Cluster 3027]GO:0045656+P biological\_process [name] negative regulation of monocyte differentiation [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of monocyte differentiation." [GOC]

33291 Pathogen[ Q2Q067] interacts with 2 human partners:{P01106;P31268}  
33292 Pathogen[ P0C214] interacts with 1 human partners:{P01106}  
33293 Pathogen[ P03346] interacts with 2 human partners:{P31268;P01106}  
33294 Pathogen[ Q85601] interacts with 1 human partners:{P01106}  
33295 Pathogen[ P14079] interacts with 1 human partners:{P01106}  
33296 Pathogen[ P03383] interacts with 1 human partners:{P01106}  
33297 Pathogen[ P03410] interacts with 1 human partners:{P01106}  
33298 Pathogen[ P14075] interacts with 1 human partners:{P01106}  
33299 Pathogen[ P0C206] interacts with 2 human partners:{P31268;P01106}  
33300 Pathogen[ P03363] interacts with 2 human partners:{P01106;P31268}  
33301 [Cluster 3028]GO:0048172+P biological\_process [name] regulation of short-term neuronal synaptic plasticity [def] "A process that modulates short-term neuronal synaptic plasticity, the ability of neuronal synapses to change in the short-term as circumstances require. Short-term neuronal synaptic plasticity generally involves increasing or decreasing synaptic sensitivity." [GOC  
33302 Pathogen[ Q2Q067] interacts with 1 human partners:{075145}  
33303 Pathogen[ P0C214] interacts with 1 human partners:{075145}  
33304 Pathogen[ P03346] interacts with 1 human partners:{075145}  
33305 Pathogen[ Q85601] interacts with 1 human partners:{075145}  
33306 Pathogen[ P14079] interacts with 3 human partners:{043759;B4DS77;075145}  
33307 Pathogen[ P03383] interacts with 1 human partners:{075145}  
33308 Pathogen[ P03410] interacts with 3 human partners:{043759;075145;B4DS77}  
33309 Pathogen[ P14075] interacts with 1 human partners:{075145}  
33310 Pathogen[ P0C206] interacts with 2 human partners:{075145;043759}  
33311 Pathogen[ P03363] interacts with 1 human partners:{075145}  
33312 [Cluster 3029]GO:0060021+P biological\_process [name] palate development [def] "The biological process whose specific outcome is the progression of the palate from an initial condition to its mature state. This process begins with the formation of the structure and ends with the mature structure. The palate is the partition that separates the nasal and oral cavities." [GOC  
33313 Pathogen[ Q2Q067] interacts with 14 human partners:{Q96S65;Q9HAZ2;Q13485;P63165;Q6W2J9;Q15699;P12755;O00255;Q14865;Q9UPW6;Q15796;O60682;P50222;P54821}  
33314 Pathogen[ P0C214] interacts with 12 human partners:{Q96S65;Q14865;Q6W2J9;P63165;Q13485;Q9HAZ2;P50222;Q15796;P12755;Q9UPW6;Q15699;O00255}  
33315 Pathogen[ P03346] interacts with 18 human partners:{P54821;Q96S65;Q9UPW6;Q15796;O60682;O43680;Q15699;P50222;O00255;O95863;P63165;Q14865;Q9HB21;P56178;Q13485;Q9P2D1;Q9HAZ2;Q6W2J9}  
33316 Pathogen[ Q85601] interacts with 15 human partners:{Q96S65;Q9UPW6;Q9P2D1;O60682;P12755;P50222;Q15699;Q9HB21;O00255;Q14865;P63165;Q13485;Q15796;Q6W2J9;Q9HAZ2}  
33317 Pathogen[ P14079] interacts with 17 human partners:{Q9UPW6;Q9HAZ2;Q9Y5U4;P12755;O60682;Q15699;Q14865;P63165;Q96S65;Q6W2J9;Q9P2D1;P54826;Q9HB21;P28360;O00255;P50222;O15503}  
33318 Pathogen[ P03383] interacts with 10 human partners:{Q96S65;Q13485;Q9UPW6;P50222;Q9HAZ2;Q6W2J9;P63165;O00255;Q15796;Q15699}  
33319 Pathogen[ P03410] interacts with 18 human partners:{Q6W2J9;Q9HAZ2;P12755;P63165;O60682;P50222;Q9Y5U4;Q9HB21;Q9UPW6;Q9P2D1;Q96S65;Q13485;Q15699;P54826;Q14865;O15503;O00255;Q15796}  
33320 Pathogen[ P14075] interacts with 11 human partners:{P63165;Q96S65;Q15796;Q9HAZ2;Q13485;O00255;Q9UPW6;Q6W2J9;Q15699;P54826;P50222}  
33321 Pathogen[ P0C206] interacts with 17 human partners:{Q96S65;Q9HAZ2;Q6W2J9;P54821;O00255;Q9P2D1;Q15699;Q15796;P12755;O60682;Q9UPW6;Q13485;Q9HB21;P63165;Q14865;P54826;P50222}  
33322 Pathogen[ P03363] interacts with 13 human partners:{P56179;Q15699;Q96S65;Q14865;P63165;Q15796;P54821;P50222;O60682;Q13485;Q6W2J9;Q9UPW6;Q9HAZ2}  
33323 [Cluster 3030]GO:0006166+P biological\_process [name] purine ribonucleoside salvage [def] "Any process which produces a purine nucleoside from derivatives of it, without de novo synthesis." [GOC  
33324 Pathogen[ Q2Q067] interacts with 1 human partners:{P07741}  
33325 Pathogen[ P0C214] interacts with 2 human partners:{P07741;Q13126}  
33326 Pathogen[ P03346] interacts with 1 human partners:{P07741}  
33327 Pathogen[ Q85601] interacts with 1 human partners:{P07741}  
33328 Pathogen[ P14079] interacts with 1 human partners:{P07741}  
33329 Pathogen[ P03383] interacts with 1 human partners:{P07741}  
33330 Pathogen[ P03410] interacts with 1 human partners:{P07741}  
33331 Pathogen[ P14075] interacts with 1 human partners:{P07741}  
33332 Pathogen[ P0C206] interacts with 1 human partners:{P07741}  
33333 Pathogen[ P03363] interacts with 1 human partners:{P07741}  
33334 [Cluster 3031]GO:0043101+P biological\_process [name] purine-containing compound salvage [def] "Any process that generates a purine-containing compound, any nucleobase, nucleoside, nucleotide or nucleic acid that contains a purine base, from derivatives of them without de novo synthesis." [CHEBI

33335 Pathogen[ Q2Q067] interacts with 1 human partners:{P07741}

33336 Pathogen[ P0C214] interacts with 1 human partners:{P07741}

33337 Pathogen[ P03346] interacts with 1 human partners:{P07741}

33338 Pathogen[ Q85601] interacts with 1 human partners:{P07741}

33339 Pathogen[ P14079] interacts with 1 human partners:{P07741}

33340 Pathogen[ P03383] interacts with 1 human partners:{P07741}

33341 Pathogen[ P03410] interacts with 1 human partners:{P07741}

33342 Pathogen[ P14075] interacts with 1 human partners:{P07741}

33343 Pathogen[ P0C206] interacts with 1 human partners:{P07741}

33344 Pathogen[ P03363] interacts with 1 human partners:{P07741}

33345 [Cluster 3032]GO:0018216+P biological\_process [name] peptidyl-arginine methylation [def] "The addition of a methyl group to an arginine residue in a protein." [GOC

33346 Pathogen[ Q2Q067] interacts with 4 human partners:{O14744;Q9NVM4;Q9NR22;Q99873}

33347 Pathogen[ P0C214] interacts with 3 human partners:{Q9NVM4;Q99873;Q9NR22}

33348 Pathogen[ P03346] interacts with 4 human partners:{Q99873;O14744;Q9NR22;Q9NVM4}

33349 Pathogen[ Q85601] interacts with 4 human partners:{Q9NR22;Q9NVM4;O14744;Q99873}

33350 Pathogen[ P14079] interacts with 4 human partners:{Q9NR22;Q99873;Q9NVM4;O14744}

33351 Pathogen[ P03383] interacts with 3 human partners:{O14744;Q99873;Q9NR22}

33352 Pathogen[ P03410] interacts with 4 human partners:{Q9NVM4;Q9NR22;O14744;Q99873}

33353 Pathogen[ P14075] interacts with 3 human partners:{Q9NR22;O14744;Q99873}

33354 Pathogen[ P0C206] interacts with 4 human partners:{Q99873;O14744;Q9NVM4;Q9NR22}

33355 Pathogen[ P03363] interacts with 4 human partners:{O14744;Q9NVM4;Q9NR22;Q99873}

33356 [Cluster 3033]GO:0042493+P biological\_process [name] response to drug [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a drug stimulus. A drug is a substance used in the diagnosis, treatment or prevention of a disease." [GOC

33357 Pathogen[ Q2Q067] interacts with 58 human partners:{Q13562;P49454;P01100;P22392;P24385;P63104;P40763;P01106;P13929;Q99497;P09132;P18887;P54274;Q04206;P11387;P05062;Q6QNY0;O15379;P36956;Q99933;P05413;P11388;P14635;Q9UBC3;P27797;P63146;Q13469;Q96L92;O14980;Q9UHB9;Q15532;O60934;P24864;P54278;P29474;O15527;P38936;Q14764;Q15583;P17861;P04818;O14920;P27986;P16455;Q01831;Q9UKK3;Q04743;P11802;P15923;P15407;P27815;Q9H3M7;Q13867;P08397;Q16836;Q15797;Q9H633;Q9H1Y0}

33358 Pathogen[ P0C214] interacts with 68 human partners:{P29474;Q9H633;Q13469;P04818;O14681;P00480;Q99698;P15407;P27815;Q9H3M7;Q9UM54;Q14764;Q13867;P01100;Q95299;P17275;P11802;P40261;Q04206;Q99497;P14635;P40939;P05413;P24385;Q99807;P38936;P05062;Q6QNY0;P08397;P13929;Q92698;O14980;P15923;P17861;Q99933;P09104;P18887;Q96L92;P05543;P11388;O15379;P16455;P11387;Q15532;P05412;Q9H1Y0;P24864;Q01831;P27797;Q9UKK3;Q9UHB9;P40763;P54278;P22392;Q15797;O15527;P40692;P16220;P17812;P22830;P49454;P09132;O15524;P27986;O14920;P01106;P63146;P54274}

33359 Pathogen[ P03346] interacts with 67 human partners:{P05412;Q99698;O15524;P24385;Q5XG87;P16220;P29474;P05413;Q14764;P36956;Q16836;Q9H633;P11388;P13929;O15379;Q15797;Q12772;P17275;P54274;P17861;Q15583;P15923;Q9UKK3;Q04743;Q04206;P24864;Q04741;Q9UBC3;O43316;Q92698;P09132;Q6QNY0;P78426;P11802;Q15532;P01106;O14980;Q96L92;Q13469;P14635;P63146;Q01831;P27815;P22392;Q99497;P15407;P27797;Q13867;O60934;P18887;P63104;P54278;Q9UHB9;Q9H1Y0;P05062;O14920;P38936;Q13562;O15527;P40763;P01100;Q9H3M7;P40261;P27986;P49454;Q99933;P11387}

33360 Pathogen[ Q85601] interacts with 67 human partners:{P01106;Q99497;P49454;Q6QNY0;Q15532;O15527;P63104;O43316;P24385;P63146;Q01831;P05413;P18887;P00480;Q15797;P16455;P15407;P40763;P27815;Q9UKK3;Q12772;Q15583;Q14764;P27797;Q13469;Q92698;P05062;Q13867;P11802;P27986;Q13562;P01100;Q96L92;P11387;Q5XG87;P14635;Q99933;P36956;P13929;P16220;Q9H1Y0;O14920;Q04206;P05412;P11388;P22392;P15923;O14980;P29474;P54278;O15379;Q16836;P08397;Q9UHB9;P38936;Q9UM54;P40692;Q9H633;P17275;Q9H3M7;P17861;P09132;P54274;Q99698;Q9UBC3;P24864;O60934}

33361 Pathogen[ P14079] interacts with 73 human partners:{P04083;O15379;P54274;P11388;Q9Y5P2;P09132;Q99807;Q16873;P41238;Q15532;Q6QNY0;P17812;P24864;P13498;P40692;Q15583;Q5XG87;Q99497;P54278;Q92698;P16455;Q9UM54;O60934;O15527;Q96L92;P15923;P05413;Q15797;Q9UKK3;Q9H1Y0;P63104;Q12772;P68032;Q9UBC3;P14635;P22392;P38936;Q99933;P08397;P48681;Q13867;P18887;P17275;Q95299;Q9H633;P22830;P01106;P61803;P10620;P00480;Q04743;P13929;P53602;P27815;Q14764;Q99541;P15407;Q9H3M7;P49454;Q13469;Q01831;P05412;Q9UEY8;Q99698;Q9UHB9;P36956;P04818;P01100;P63146;O14681;P03886;P17405;Q16836}

33362 Pathogen[ P03383] interacts with 46 human partners:{P27986;Q6QNY0;P49454;P29474;P16220;P54278;Q13469;O14920;P01106;Q9H633;O15527;P17861;Q16836;P22392;P15923;Q15532;P24385;Q15797;P11387;Q9H1Y0;P09132;Q01831;P14635;P11802;Q96L92;P63104;O14980;Q13867;P15407;O15379;Q99933;Q9UKK3;P01100;Q9H3M7;Q04206;P08397;Q9UHB9;P18887;O14681;P63146;P24864;P17275;Q14764;P54274;P27797;P05412}

33363 Pathogen[ P03410] interacts with 79 human partners:{Q99933;Q04206;P53602;P40692;P18887;P36956;P27986;O14681;O14920;P17861;Q9UEY8;Q99497;Q9UHB9;P08397;Q96L92;Q9H1Y0;Q92698;P01106;P17812;P05413;P54274;Q95299;Q6QNY0;P41238;Q13867;Q9H3M7;P15923;P05062;Q01831;P01100;P49454;Q9UM54;P00480;Q15583;P24385;P29474;Q14764;P03886;P14635;P38936;P09132;P04818;P17275;O15527;Q12772;P11802;Q16873;O15379;P22830;Q15797;P16455;P63146;P11387;P16220;Q5XG87;Q9Y5P2;Q13469;P05412;Q16836;P11388;P63104;Q9UBC3;P13929;Q99698;Q9UKK3;P54278;Q99807;P15407;Q9H633;Q04743;Q15532;P24864;P61803;P40763;P27815;O60934;P17405;O14980;P27797}

33364 Pathogen[ P14075] interacts with 45 human

partners:{P11387;P29474;Q99933;P09132;Q14764;Q04206;O14681;P05412;P11802;P17861;Q15532;Q9H1Y0;P14635;Q01831;P17275;O15527;P08397;P15923;P01106;O14980;O14920;P54274;Q13469;P27797;Q16836;P27986;Q6QNY0;P63104;Q9H3M7;Q13867;O15379;P01100;Q9H633;Q9UHB9;P16220;P54278;P24385;P63146;P15407;P49454;P22392;P18887;Q96L92;Q9UKK3;P24864}

33365 Pathogen[ P0C206] interacts with 73 human  
partners:{P09132;Q96L92;P54278;Q5XG87;P05062;Q9UM54;O14920;P27797;Q13469;P15407;Q04743;P16220;P17275;O15527;P22392;Q99933;O60934;Q16836;P40692;P05412;Q99698;P36956;O15524;P49454;Q99497;Q15532;P27986;P17861;P05413;Q13867;P54274;P63104;O14681;P27815;Q9UKK3;O15379;Q9H1Y0;P01100;Q04206;Q01831;P15923;Q99807;P22830;P38936;P40763;P04818;Q13562;P29474;Q15797;Q9H3M7;Q9UHB9;P11388;P01106;Q9UBC3;P14635;Q6QNY0;P11387;P41238;P08397;P24864;P13929;P16455;Q9H633;P11802;Q12772;P00480;O43316;P18887;Q92698;Q14764;Q15583;P63146;P24385}

33366 Pathogen[ P03363] interacts with 52 human  
partners:{Q16836;P18887;P09132;P29474;P49454;O15527;O14920;Q04206;P24864;O15524;Q96L92;P11387;Q01831;O14980;O15379;Q9UHB9;Q9H3M7;P16220;O43316;Q15532;Q15797;P63146;P01106;P27815;P17275;Q9H633;P15923;P63104;Q13867;Q99698;P54278;Q9UKK3;P54274;P27797;P17861;P05413;Q15583;P15407;P24385;Q13469;P05412;Q04741;P11802;Q9UBC3;Q14764;P27986;Q6QNY0;Q99933;Q9H1Y0;Q92698;Q04743;P01100}

33367 [Cluster 3034]GO:0008015+P biological\_process [name] blood circulation [def] "The flow of blood through the body of an animal, enabling the transport of nutrients to the tissues and the removal of waste products." [GOC]

33368 Pathogen[ Q2Q067] interacts with 10 human  
partners:{Q01543;P54105;P26678;P11171;Q16254;Q16621;P53805;P14652;P50222;P42224}

33369 Pathogen[ P0C214] interacts with 9 human  
partners:{Q16254;P42898;Q16621;P42224;P50222;Q01543;P53805;P26678;P11171}

33370 Pathogen[ P03346] interacts with 11 human  
partners:{P53805;P54105;Q16621;P26678;P14652;Q16254;P50222;P11171;P42224;Q9P2D1;Q01543}

33371 Pathogen[ Q85601] interacts with 9 human  
partners:{Q9P2D1;Q16621;P11171;P50222;Q01543;P54105;P42224;Q16254;P53805}

33372 Pathogen[ P14079] interacts with 12 human  
partners:{P15502;P11171;Q16254;P53805;Q9P2D1;Q01543;Q16621;P42224;P26678;P54105;P50222;P42898}

33373 Pathogen[ P03383] interacts with 8 human  
partners:{P54105;P50222;P53805;Q16621;Q16254;Q01543;P26678;P15502}

33374 Pathogen[ P03410] interacts with 11 human  
partners:{P54105;P50222;Q16254;P11171;P15502;Q9P2D1;P53805;Q16621;P26678;P42898;Q01543}

33375 Pathogen[ P14075] interacts with 9 human  
partners:{P54105;Q01543;P53805;P26678;Q16254;P15502;Q16621;P50222;P11171}

33376 Pathogen[ P0C206] interacts with 12 human  
partners:{P53805;P15502;P54105;Q9P2D1;Q16254;P14652;Q16621;P26678;P42224;Q01543;P11171;P50222}

33377 Pathogen[ P03363] interacts with 8 human  
partners:{P53805;Q01543;Q16254;Q16621;P54105;P14652;P11171;P50222}

33378 [Cluster 3035]GO:0006429+P biological\_process [name] leucyl-tRNA aminoacylation [def] "The process of coupling leucine to leucyl-tRNA, catalyzed by leucyl-tRNA synthetase. In tRNA aminoacylation, the amino acid is first activated by linkage to AMP and then transferred to either the 2'- or the 3'-hydroxyl group of the 3'-adenosine residue of the tRNA." [GOC]

33379 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9P2J5}

33380 Pathogen[ P0C214] interacts with 2 human partners:{Q15031;Q9P2J5}

33381 Pathogen[ P03346] interacts with 1 human partners:{Q9P2J5}

33382 Pathogen[ Q85601] interacts with 1 human partners:{Q9P2J5}

33383 Pathogen[ P14079] interacts with 2 human partners:{Q9P2J5;Q15031}

33384 Pathogen[ P03383] interacts with 2 human partners:{Q9P2J5;Q15031}

33385 Pathogen[ P03410] interacts with 1 human partners:{Q9P2J5}

33386 Pathogen[ P14075] interacts with 2 human partners:{Q9P2J5;Q15031}

33387 Pathogen[ P0C206] interacts with 2 human partners:{Q15031;Q9P2J5}

33388 Pathogen[ P03363] interacts with 2 human partners:{Q9P2J5;Q15031}

33389 [Cluster 3036]GO:0045618+P biological\_process [name] positive regulation of keratinocyte differentiation [def] "Any process that activates or increases the frequency, rate or extent of keratinocyte differentiation." [GOC]

33390 Pathogen[ Q2Q067] interacts with 2 human partners:{P22392;P11473}

33391 Pathogen[ P0C214] interacts with 1 human partners:{P22392}

33392 Pathogen[ P03346] interacts with 3 human partners:{P11473;O95361;P22392}

33393 Pathogen[ Q85601] interacts with 2 human partners:{P11473;P22392}

33394 Pathogen[ P14079] interacts with 3 human partners:{P11473;P22392;O95361}

33395 Pathogen[ P03383] interacts with 2 human partners:{P22392;P11473}

33396 Pathogen[ P03410] interacts with 1 human partners:{P11473}

33397 Pathogen[ P14075] interacts with 2 human partners:{P11473;P22392}

33398 Pathogen[ P0C206] interacts with 3 human partners:{P22392;O95361;P11473}

33399 Pathogen[ P03363] interacts with 1 human partners:{P11473}

33400 [Cluster 3037]GO:0007283+P biological\_process [name] spermatogenesis [def] "The process of formation of spermatozoa, including spermatocytogenesis and spermiogenesis." [GOC]

- 33401 Pathogen[ Q2Q067] interacts with 75 human  
partners: {O75525;P25490;Q9H3C7;Q9HB65;P02545;P20226;Q99417;Q9HBE1;Q5TAP6;Q8NCR6;P41220;Q01094;Q9NS26;Q8IUV8;Q95997;Q8IXK0;P41182;Q9UL49;P08151;Q00613;Q9Y6K1;P49116;Q9UM82;P30279;P14373;Q16626;Q03933;P54727;P52594;Q86YF9;Q8ND90;Q94993;Q9H320;Q8NHM5;Q5BJF6;Q9UJW3;Q9NZP6;P14635;Q9P2T0;P62324;P27797;O43502;P63146;Q9UMX2;Q14997;Q96M53;Q9BZW7;Q9H9C1;Q99728;Q9Y2T7;O75618;P35527;Q15102;Q92843;P25440;Q9H091;Q96EH5;Q9HD36;P62380;Q9H160;P78396;P15259;A1L190;Q58F21;P41208;P16989;Q8IZT6;Q96L21;Q9GZV4;P13682;Q03060;P31689;O14599;Q01534;P31260}
- 33402 Pathogen[ P0C214] interacts with 86 human  
partners: {Q14997;Q58F21;Q8IUV8;P41220;Q00613;Q96M53;P16989;Q99728;P35527;O95633;Q8NCR6;Q8IXK0;A1L190;P15259;P46379;P62380;Q9GZV4;O75618;Q9HBE1;P0CW01;Q96EH5;Q9Y6K1;Q99417;P14635;Q9Y232;P68402;O14599;Q9H091;Q8NEY3;Q9BXT5;Q9P2T0;P0CV99;Q9H3C7;P55789;Q03933;Q9NZP6;Q01534;O75525;Q15102;Q01094;Q9Y2T7;P49116;Q00536;Q96KC9;P78396;P25440;Q9HD36;Q9H160;O43502;P0CW00;Q9BZW7;P62324;P41182;Q9UMX2;P20226;P13682;P54727;P41208;Q5TAP6;Q92843;P30279;P27797;Q03060;Q9UM82;Q96L21;Q5BJF6;Q9NS26;O95997;P08151;Q5H9L4;Q9H320;P52594;Q9HB65;P02545;Q9H9C1;P40692;P14373;Q86YF9;Q8IZT6;P63146;Q8ND90;P0CV98;O94993;Q9UJW3;A6NKD2;Q8NHM5}
- 33403 Pathogen[ P03346] interacts with 112 human  
partners: {Q8NEA9;Q9NS91;Q9NS26;Q01534;P31260;Q9BXT5;P78396;Q14320;Q00536;Q9Y6K1;Q9HB65;Q86UU5;P30279;Q9H091;Q99598;P14373;Q16626;Q5TAP6;Q9GZV4;Q8NHU6;P35527;Q00613;O43502;Q95714;Q9UM82;Q99728;Q96M53;Q12772;Q03933;P07992;P49116;P25490;Q9UMX2;Q8NHX4;Q8NCR6;Q9P2T0;Q96J94;Q5JSS6;P16989;P25440;Q01094;P02545;Q9NZP6;Q92843;O95997;P20226;Q86YF9;Q86W54;Q99417;P51843;P41208;Q9UL49;Q58F21;A6NDE4;Q96L21;Q15102;P14635;Q96GD3;P62380;P63146;P51587;P46379;P52594;O14599;Q02548;Q5JUK2;O75618;Q8N0X2;Q8IUQ4;P31689;P54727;Q5BJF6;O94993;Q9HBE1;P27797;P41182;Q8ND90;Q9HB21;Q96EH5;Q9Y2T7;Q8IUV8;Q9H9C1;P15259;A1L190;Q8TBZ2;Q9NTU4;Q14997;Q8NEY3;O75031;Q03060;Q8IZT6;P13682;Q9Y232;Q5H9L4;Q8IXK0;Q9C0J8;Q8NHM5;P41220;O75525;P62324;Q8TEY5;Q9BZW7;Q9H3C7;Q9H320;Q9NQZ3;Q9HD36;Q9H160;O95633;Q96IK5;Q9UJC3;Q9UJW3;P08151}
- 33404 Pathogen[ Q85601] interacts with 90 human  
partners: {Q8IXK0;P08151;Q9Y2T7;Q00536;Q8ND90;Q9BXT5;O43502;P02545;P14373;P31689;P63146;Q9GZV4;Q9H320;Q9HD36;P13682;O14599;Q9UJW3;P41220;O95714;Q03933;Q99417;P0CW01;Q9H3C7;Q5H9L4;Q01534;P62324;Q99728;P46379;Q12772;P25490;P0CV98;P27797;Q5BJF6;P52594;Q86VD1;Q8IZT6;Q00613;P0CW00;Q9NZP6;P15259;Q9H9C1;Q9UM82;Q86W54;Q8NEY3;Q9UMX2;P31260;Q96L21;P54727;Q9Y4I5;P14635;Q9NS26;Q92843;Q9HB21;Q8NHM5;O75618;P30279;Q9Y6K1;P78396;O94993;Q96EH5;Q9P2T0;A6NKD2;P25440;P35527;P49116;Q96M53;Q9HB65;P41182;O75525;P40692;Q7Z7L9;Q9H160;Q9P2V9;P62380;P16989;Q9H091;Q58F21;Q03060;P51587;Q01094;O95997;Q86YF9;P20226;Q8IUV8;A1L190;Q15102;Q9NS91;Q9HBE1;P41208;Q9BZW7}
- 33405 Pathogen[ P14079] interacts with 113 human  
partners: {O75031;Q8WYA0;P15259;Q9H320;Q8NEY3;Q9UGV2;P08151;O75618;P14373;Q9BXT5;Q8NHX4;Q9UJC3;Q7Z7L9;P62324;Q01534;Q5H9L4;Q8IUV8;Q9UM82;Q9Y6K1;P78396;Q96M53;Q9H9C1;Q58F21;Q13323;Q8N0X2;P40692;P01225;Q9POW8;Q9UMX2;O43432;Q8NHU6;Q03060;Q14320;P51587;P52594;Q9P2T0;Q8NHM5;P41220;Q7Z7C7;P35527;P62380;Q9H3C7;Q03933;Q5TAP6;Q86UN6;Q5JSS6;Q9Y4I5;Q12772;Q9NTU4;Q86UU5;Q9Y2T7;Q00613;P41182;Q5BJF6;Q9UL49;Q14997;Q96L21;P14635;Q14353;P16989;Q9UJW3;Q8ND90;A6NGB9;Q96PU9;Q14093;Q15102;Q9HD36;Q86X24;O75525;Q8IXK0;Q9NZP6;P35663;Q99417;P55789;Q9NS26;Q86VD1;Q9H091;O43502;O95997;P41208;Q16626;P25440;P31689;Q86YF9;Q9HB21;Q2TAA8;Q99598;Q9HB65;P49116;Q96JY0;Q9BZX4;P13682;Q96KC9;P02545;P25490;P54727;Q01094;O15259;Q9GZV4;P63146;O14599;Q9HBE1;O94993;Q8IZT6;P07992;Q8NCR6;Q9H160;Q96EH5;Q7Z5L4;Q9BSE4;Q92843;A1L190;Q9BZW7}
- 33406 Pathogen[ P03383] interacts with 65 human  
partners: {P02545;P16989;Q86UU5;Q9NTU4;P62324;Q16626;Q9HBE1;P25440;Q01094;Q5TAP6;P41220;Q9UJW3;Q8IUV8;P49116;Q9UL49;O75618;P41208;Q8NEY3;Q5H9L4;Q9H9C1;Q9GZV4;Q9BZW7;Q9NS26;Q00536;Q14997;Q96L21;P31689;P14635;P78396;Q9Y2T7;Q9NZP6;P30279;Q9HB65;P20226;P35527;Q8NHX4;Q9H160;Q9Y6K1;Q99417;Q00613;P54727;Q5BJF6;Q58F21;Q9P2T0;Q8ND90;O75525;Q86YF9;A1L190;Q96EH5;O95997;Q9H320;Q96M53;P63146;Q01534;Q9UM82;Q9H3C7;Q8NCR6;O14599;Q9H091;P52594;Q03060;P15259;P13682;P27797;Q03933}
- 33407 Pathogen[ P03410] interacts with 107 human  
partners: {Q8IUV8;Q00613;P40692;Q8IXK0;Q96KC9;Q9UJC3;P52594;Q14353;Q9P2T0;O14599;A6NGB9;P30279;P13682;P16989;P07992;O15259;P41220;Q9Y4I5;Q14997;O75031;Q8NCR6;Q8N0X2;Q8NHU6;P35527;Q9UL49;Q01534;P62380;Q9BZX4;Q9HD36;Q92843;Q86UN6;Q03060;P20226;Q96EH5;Q9HB21;O43432;O95997;Q03933;Q5TAP6;P25490;Q8IZT6;Q9BSE4;Q8NHX4;P78396;Q96L21;Q9NTU4;Q5H9L4;Q86YF9;Q9UM82;P14635;O43502;P35663;Q9NPE6;O75525;Q12772;P62324;P04553;P51587;P02545;Q9H3C7;Q9BXT5;Q9H160;Q8WYA0;Q7Z7C7;P63146;Q8NEY3;P15259;Q14320;Q5BJF6;Q14093;P41182;Q99598;Q9BZW7;Q15102;Q01094;Q7Z7L9;P49116;Q86VD1;P31689;Q9H091;Q8ND90;Q9H9C1;Q99417;Q9UJW3;Q9GZV4;O75618;Q9Y2T7;O94993;A1L190;Q16626;Q9H320;Q86UU5;Q9Y6K1;P55789;P41208;Q9UMX2;Q58F21;Q96M53;Q5JSS6;Q9NZP6;Q9NS26;Q9HB65;Q9HBE1;Q13323;P27797;P25440;P54727}
- 33408 Pathogen[ P14075] interacts with 70 human  
partners: {Q9NTU4;P31689;Q9Y6K1;Q00613;Q15102;Q8NEY3;Q96L21;P16989;P25440;P62324;Q9UM82;P14635;P30279;Q03933;Q9UJW3;Q14320;A1L190;P41220;O95997;Q9GZV4;Q9H091;Q9H9C1;P20226;Q9NZP6;Q8ND90;P78396;Q86UU5;P49116;P02545;Q96KC9;O75618;Q5BJF6;Q96M53;Q58F21;Q9Y2T7;Q9UL49;O75525;Q9BXT5;Q9H320;P27797;P54727;Q99417;Q01534;Q01094;P55789;P41208;Q5H9L4;Q9NS26;Q14997;P52594;Q9P2T0;P15259;Q03060;Q9H3C7;Q96EH5;Q9BZW7;Q8NCR6;P63146;Q8NHX4;Q9HB65;O14599;Q9H160;Q16626;P35527;Q86YF9;Q7Z7C7;Q8IUV8;O75031;Q9HBE1;Q5TAP6}
- 33409 Pathogen[ P0C206] interacts with 115 human  
partners: {Q86VD1;O43502;Q14320;P62324;Q9Y232;Q96KC9;Q03060;Q96L21;Q9GZV4;Q9HB65;P35527;P55789;Q9Y6K1;P27797;Q14997;P13682;Q5BJF6;P20226;O95633;Q9HD36;P25490;Q9HBE1;Q9NT

U4;A1L190;Q86YF9;P51587;Q9H091;P41182;P62380;Q99598;P30279;Q00613;Q02548;Q9Y4I5;Q00536;O95997;P40692;Q03933;Q8IUQ4;Q9UL49;Q8NCR6;Q9H320;O75618;Q9NS91;Q8IZT6;Q9BXT5;Q9BZW7;Q8WYA0;P49116;P0CV98;Q9H160;P07992;Q01534;O14599;Q9UM82;A6NKD2;Q7Z7C7;Q92843;P16989;O94993;Q8ND90;Q01094;Q16626;Q15102;Q99728;P54727;Q5H9L4;P49916;Q8NHM5;Q86UN6;Q8IYW8;P25440;Q9HB21;Q7Z7L9;Q9NS26;Q86W54;P02545;Q8IXK0;P78396;A6NGB9;P41208;Q99417;Q8NEY3;O75031;P35663;Q9P2T0;P0CW01;Q9NZP6;Q58F21;P14635;Q9UJC3;Q86UU5;P14373;P41220;O75525;P08151;Q8NHX4;Q96M53;Q9H3C7;Q9Y2T7;P46379;Q96EH5;Q9H9C1;O95714;Q12772;Q5TAP6;P31689;P0CW00;P31260;Q9UJW3;P0CV99;P15259;Q5JSS6;P63146;Q9UMX2}

33410 Pathogen[ P03363] interacts with 103 human partners: {Q5BJF6;P46379;Q9H160;Q96M53;P13682;Q9GZV4;Q8N0X2;P62380;Q9H091;P54727;Q99598;Q5JUK2;P49116;Q9H9C1;Q8NHU6;P02545;Q7Z3Z4;Q58F21;P14373;P08151;O75618;Q8TBZ2;P30279;Q03933;Q14093;P25490;Q9Y6K1;Q9HB65;Q8IXK0;Q99417;P63146;P41208;Q9NTU4;Q96L21;Q9NS26;Q9UGV2;Q8N9W6;Q96EH5;Q9H320;O14599;Q9P2T0;Q9HD36;Q8NCR6;O75031;Q92904;Q5JSS6;Q86U05;P62324;Q8NEY3;Q01094;Q96JY0;P35527;P27797;P31260;P78396;Q92843;Q14320;Q5TAP6;Q8ND90;Q9UM82;Q16626;Q86UN6;P41220;Q8NEA9;Q01534;P20226;O95714;P25440;O94993;Q9H3C7;Q00613;Q9UMX2;Q96J94;Q9BZW7;Q9UJW3;Q5SZQ8;Q9NZP6;A6NDE4;O15259;Q8IYW8;O95997;Q9NQZ3;P16989;Q02548;Q99728;Q9BXT5;P52594;Q86YF9;Q86W54;Q9NS91;Q5H9L4;Q9Y2T7;O75525;Q00536;P15259;Q8IZT6;Q9UL49;P35663;Q03060;A1L190;Q15102;O43502;Q9UJC3}

33411 [Cluster 3038]GO:0060235+P biological\_process [name] lens induction in camera-type eye [def] "Signaling at short range between the head ectoderm and the optic vesicle that results in the head ectoderm forming a lens." [GOC]

33412 Pathogen[ Q2Q067] interacts with 1 human partners: {P14859}

33413 Pathogen[ P0C214] interacts with 1 human partners: {P14859}

33414 Pathogen[ P03346] interacts with 3 human partners: {P14859;Q86Z02;O95343}

33415 Pathogen[ Q85601] interacts with 1 human partners: {P14859}

33416 Pathogen[ P14079] interacts with 1 human partners: {P14859}

33417 Pathogen[ P03383] interacts with 1 human partners: {P14859}

33418 Pathogen[ P03410] interacts with 1 human partners: {P14859}

33419 Pathogen[ P14075] interacts with 1 human partners: {P14859}

33420 Pathogen[ P0C206] interacts with 1 human partners: {P14859}

33421 Pathogen[ P03363] interacts with 2 human partners: {P14859;O95343}

33422 [Cluster 3039]GO:0045717+P biological\_process [name] negative regulation of fatty acid biosynthetic process [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the chemical reactions and pathways resulting in the formation of fatty acids." [GOC]

33423 Pathogen[ Q2Q067] interacts with 2 human partners: {Q8N5D0;Q96RU7}

33424 Pathogen[ P0C214] interacts with 2 human partners: {Q8N5D0;Q96RU7}

33425 Pathogen[ P03346] interacts with 2 human partners: {Q8N5D0;Q96RU7}

33426 Pathogen[ Q85601] interacts with 2 human partners: {Q96RU7;Q8N5D0}

33427 Pathogen[ P14079] interacts with 4 human partners: {Q9Y5U4;Q8N5D0;Q96RU7;O15503}

33428 Pathogen[ P03383] interacts with 2 human partners: {Q96RU7;Q8N5D0}

33429 Pathogen[ P03410] interacts with 4 human partners: {Q9Y5U4;Q8N5D0;Q96RU7;O15503}

33430 Pathogen[ P14075] interacts with 2 human partners: {Q8N5D0;Q96RU7}

33431 Pathogen[ P0C206] interacts with 2 human partners: {Q96RU7;Q8N5D0}

33432 Pathogen[ P03363] interacts with 1 human partners: {Q8N5D0}

33433 [Cluster 3040]GO:0032436+P biological\_process [name] positive regulation of proteasomal ubiquitin-dependent protein catabolic process [def] "Any process that activates or increases the frequency, rate or extent of the breakdown of a protein or peptide by hydrolysis of its peptide bonds, initiated by the covalent attachment of ubiquitin, and mediated by the proteasome." [GOC]

33434 Pathogen[ Q2Q067] interacts with 14 human partners: {O75832;P31749;Q9Y5A7;P63165;Q96MT3;Q9NZL4;O15105;Q96PM5;P61956;Q15819;Q9UNE7;P21675;Q00987;Q8NEZ5}

33435 Pathogen[ P0C214] interacts with 15 human partners: {Q9NZL4;Q96PM5;P61956;P21675;Q00987;Q96MT3;O75832;Q15819;P63165;O15105;P10909;Q9Y5A7;Q9UNE7;P31749;P55072}

33436 Pathogen[ P03346] interacts with 18 human partners: {Q9NZL4;P61956;Q8NEZ5;O75159;Q96PM5;P25686;O15105;P55072;Q00987;Q96MT3;O75832;Q9Y5A7;P31749;Q9UNE7;P63165;P21675;Q969F2;Q15819}

33437 Pathogen[ Q85601] interacts with 14 human partners: {P31749;O75832;P61956;Q96PM5;Q96MT3;P63165;P21675;O15105;Q9Y5A7;Q9NZL4;Q00987;Q9UNE7;Q8NEZ5;Q15819}

33438 Pathogen[ P14079] interacts with 12 human partners: {Q15819;O75832;P10909;P63165;P61956;Q00987;Q8NEZ5;O15105;Q9Y5A7;Q96MT3;Q9NZL4;P21675}

33439 Pathogen[ P03383] interacts with 12 human partners: {P61956;P31749;Q96MT3;O75832;Q9Y5A7;O15105;Q15819;P63165;Q96PM5;Q9NZL4;P21675;Q8NEZ5}

33440 Pathogen[ P03410] interacts with 16 human partners: {Q969F2;P63165;P21675;P25686;P31749;Q9Y5A7;Q15819;Q9UNE7;Q8NEZ5;O15105;Q9NZL4;Q00987;Q96MT3;P61956;O75832;P10909}

33441 Pathogen[ P14075] interacts with 12 human partners: {Q15819;P63165;Q96MT3;Q96PM5;P21675;O75832;P31749;Q9Y5A7;P61956;Q8NEZ5;O15105;Q9NZL4}

33442 Pathogen[ P0C206] interacts with 17 human partners: {O75832;P31749;Q969F2;Q96MT3;P61956;O15105;Q9UNE7;Q9NZL4;P10909;Q15819;P55072}

72;Q96PM5;P63165;Q00987;Q8NEZ5;Q9Y5A7;P21675}

33443 Pathogen[ P03363] interacts with 13 human partners:{075159;Q9NZL4;Q8NEZ5;Q96MT3;O15105;P63165;P31749;Q9UNE7;Q96PM5;P21675;P61956;Q9Y5A7;Q15819}

33444 [Cluster 3041]GO:0050767+P biological\_process [name] regulation of neurogenesis [def] "Any process that modulates the frequency, rate or extent of neurogenesis, the origin and formation of neurons." [GOC

33445 Pathogen[ Q2Q067] interacts with 3 human partners:{Q15910;P14651;Q5TGS1}

33446 Pathogen[ P0C214] interacts with 3 human partners:{Q15910;P14651;Q5TGS1}

33447 Pathogen[ P03346] interacts with 3 human partners:{Q5TGS1;Q15910;P14651}

33448 Pathogen[ Q85601] interacts with 3 human partners:{Q5TGS1;Q15910;P14651}

33449 Pathogen[ P14079] interacts with 3 human partners:{Q5TGS1;Q15910;P14651}

33450 Pathogen[ P03383] interacts with 3 human partners:{Q15910;Q5TGS1;P14651}

33451 Pathogen[ P03410] interacts with 3 human partners:{P14651;Q5TGS1;Q15910}

33452 Pathogen[ P14075] interacts with 2 human partners:{Q5TGS1;Q15910}

33453 Pathogen[ P0C206] interacts with 3 human partners:{Q5TGS1;P14651;Q15910}

33454 Pathogen[ P03363] interacts with 3 human partners:{Q5TGS1;P14651;Q15910}

33455 [Cluster 3042]GO:0032479+P biological\_process [name] regulation of type I interferon production [def] "Any process that modulates the frequency, rate, or extent of interferon type I production. Type I interferons include the interferon-alpha, beta, delta, epsilon, zeta, kappa, tau, and omega gene families." [GOC

33456 Pathogen[ Q2Q067] interacts with 1 human partners:{Q92985}

33457 Pathogen[ P0C214] interacts with 1 human partners:{Q92985}

33458 Pathogen[ P03346] interacts with 1 human partners:{Q92985}

33459 Pathogen[ Q85601] interacts with 1 human partners:{Q92985}

33460 Pathogen[ P14079] interacts with 1 human partners:{Q92985}

33461 Pathogen[ P03383] interacts with 1 human partners:{Q92985}

33462 Pathogen[ P03410] interacts with 1 human partners:{Q92985}

33463 Pathogen[ P14075] interacts with 1 human partners:{Q92985}

33464 Pathogen[ P0C206] interacts with 1 human partners:{Q92985}

33465 Pathogen[ P03363] interacts with 1 human partners:{Q92985}

33466 [Cluster 3043]GO:0032760+P biological\_process [name] positive regulation of tumor necrosis factor production [def] "Any process that activates or increases the frequency, rate, or extent of tumor necrosis factor production." [GOC

33467 Pathogen[ Q2Q067] interacts with 2 human partners:{Q8IUC6;Q13158}

33468 Pathogen[ P0C214] interacts with 2 human partners:{Q8IUC6;Q13158}

33469 Pathogen[ P03346] interacts with 4 human partners:{075995;Q13158;Q9Y6D5;Q8IUC6}

33470 Pathogen[ Q85601] interacts with 2 human partners:{Q8IUC6;Q13158}

33471 Pathogen[ P14079] interacts with 6 human partners:{Q8IUC6;Q9Y6D5;Q7Z434;Q13158;Q9Y239;Q99836}

33472 Pathogen[ P03383] interacts with 2 human partners:{Q8IUC6;Q13158}

33473 Pathogen[ P03410] interacts with 5 human partners:{Q9Y239;Q7Z434;Q13158;Q9Y6D5;Q8IUC6}

33474 Pathogen[ P14075] interacts with 2 human partners:{Q13158;Q8IUC6}

33475 Pathogen[ P0C206] interacts with 3 human partners:{Q13158;Q9Y6D5;Q8IUC6}

33476 Pathogen[ P03363] interacts with 1 human partners:{Q13158}

33477

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1 [Section 8] molecular functions that the HTLV viruses may interfere with
2
3
4 [Cluster 1]GO:0046332+F molecular_function [name] SMAD binding [def] "Interacting
selectively and non-covalently with a SMAD signaling protein." [GOC
5 Pathogen[ Q2Q067] interacts with 18 human
partners:{Q9HAU4;Q9HAZ2;Q13485;O60315;Q8WUH2;P50616;Q6ZNA4;Q00577;Q86UL8;P12755;P8402
2;Q96QR8;Q15796;P12757;Q9UNE7;Q92793;Q8N6I1;Q02078}
6 Pathogen[ P0C214] interacts with 18 human
partners:{Q9HAU4;P12757;Q96QR8;Q92793;P84022;Q8N6I1;Q2VWA4;Q02078;Q00577;Q13485;Q9HAZ
2;P50616;Q15796;P12755;Q6ZNA4;O60315;Q9UNE7;Q8WUH2}
7 Pathogen[ P03346] interacts with 20 human
partners:{Q96QR8;Q02078;Q9HAU4;P12757;Q00577;O60315;Q15796;Q8WUH2;Q2VWA4;P84022;Q86UL
8;Q9UNE7;P50616;P84550;Q8N6I1;Q6ZNA4;Q13485;Q92793;Q9HAZ2;O75593}
8 Pathogen[ Q85601] interacts with 19 human
partners:{Q96QR8;Q02078;Q9HAU4;O60315;Q86UL8;P12757;Q8WUH2;Q2VWA4;P12755;Q8N6I1;Q0057
7;P50616;P84022;Q6ZNA4;Q92793;Q9UNE7;Q13485;Q15796;Q9HAZ2}
9 Pathogen[ P14079] interacts with 15 human
partners:{Q9HAZ2;P12755;Q02078;Q96QR8;Q92793;Q2VWA4;Q6ZNA4;Q9HAU4;O60315;Q00577;Q86UL
8;P12757;P50616;Q8WUH2;Q8N6I1}
10 Pathogen[ P03383] interacts with 13 human
partners:{Q13485;Q8N6I1;Q6ZNA4;Q9HAZ2;P84022;P50616;Q15796;Q00577;P12757;Q96QR8;Q9279
3;Q02078;Q8WUH2}
11 Pathogen[ P03410] interacts with 17 human
partners:{P84022;Q6ZNA4;Q9HAZ2;P12755;Q8N6I1;Q8WUH2;Q00577;Q9UNE7;Q92793;Q2VWA4;Q1348
5;P12757;Q02078;Q86UL8;Q96QR8;Q15796;P50616}
12 Pathogen[ P14075] interacts with 13 human
partners:{Q96QR8;Q15796;Q9HAZ2;P12757;Q13485;Q6ZNA4;P50616;Q8N6I1;Q02078;Q00577;Q9279
3;Q8WUH2;P84022}
13 Pathogen[ P0C206] interacts with 20 human
partners:{P84022;Q9HAZ2;Q02078;Q8N6I1;Q9HAU4;Q6ZNA4;Q2VWA4;Q96QR8;Q15796;P12755;Q9279
3;Q9UNE7;P12757;P50616;Q8WUH2;Q13485;O60315;P84550;Q86UL8;Q00577}
14 Pathogen[ P03363] interacts with 19 human
partners:{O60315;Q9HAU4;P12757;Q96QR8;P50616;Q6ZNA4;Q9UNE7;Q15796;P84022;Q92793;Q1348
5;Q8WUH2;P84550;Q86UL8;Q2VWA4;Q00577;Q8N6I1;Q9HAZ2;Q02078}
15 [Cluster 2]GO:0016747+F molecular_function [name] transferase activity, transferring
acyl groups other than amino-acyl groups [def] "Catalysis of the transfer of an acyl
group, other than amino-acyl, from one compound (donor) to another (acceptor)." [GOC
16 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9H5J4;Q92993}
17 Pathogen[ P0C214] interacts with 5 human
partners:{Q92993;Q9NXB9;Q9BWD1;O95251;P42765}
18 Pathogen[ P03346] interacts with 8 human
partners:{Q8WYB5;Q92794;Q9BWD1;Q9H5J4;O95251;Q9H7Z6;P42765;Q92993}
19 Pathogen[ Q85601] interacts with 5 human
partners:{O95251;Q9H7Z6;Q9H5J4;Q9BWD1;Q92993}
20 Pathogen[ P14079] interacts with 3 human partners:{O95251;Q9H5J4;Q92993}
21 Pathogen[ P03383] interacts with 3 human partners:{O95251;Q9H5J4;Q92993}
22 Pathogen[ P03410] interacts with 5 human
partners:{Q6IED9;O95251;Q9H5J4;P42765;Q92993}
23 Pathogen[ P14075] interacts with 3 human partners:{Q9H5J4;Q92993;O95251}
24 Pathogen[ P0C206] interacts with 5 human
partners:{O95251;Q92993;Q9H5J4;Q9BWD1;Q9H7Z6}
25 Pathogen[ P03363] interacts with 4 human partners:{Q9H5J4;Q9BWD1;O95251;Q92993}
26 [Cluster 3]GO:0017048+F molecular_function [name] Rho GTPase binding [def]
"Interacting selectively and non-covalently with Rho protein, any member of the Rho
subfamily of the Ras superfamily of monomeric GTPases. Proteins in the Rho subfamily are
involved in relaying signals from cell-surface receptors to the actin cytoskeleton."
[ISBN
27 Pathogen[ Q2Q067] interacts with 2 human partners:{P07737;Q9NPB6}
28 Pathogen[ P0C214] interacts with 1 human partners:{Q9NPB6}
29 Pathogen[ P03346] interacts with 7 human
partners:{Q9NSV4;Q27J81;Q9NPB6;Q9BZ29;Q5VV41;P07737;Q9H8V3}
30 Pathogen[ Q85601] interacts with 2 human partners:{P07737;Q9NPB6}
31 Pathogen[ P14079] interacts with 7 human
partners:{P07737;O15066;O60610;Q9H8V3;Q9NPB6;Q27J81;Q5VV41}
32 Pathogen[ P03383] interacts with 2 human partners:{P07737;Q9NPB6}
33 Pathogen[ P03410] interacts with 6 human
partners:{Q27J81;O60610;Q5VV41;Q9NPB6;Q9H8V3;P07737}
34 Pathogen[ P14075] interacts with 2 human partners:{P07737;Q9NPB6}
35 Pathogen[ P0C206] interacts with 4 human partners:{Q27J81;Q9NPB6;Q9H8V3;P07737}
36 Pathogen[ P03363] interacts with 6 human
partners:{Q5VV41;Q9NPB6;Q9NSV4;O15066;Q27J81;P07737}
37 [Cluster 4]GO:0008124+F molecular_function [name] 4-alpha-hydroxytetrahydrobiopterin
dehydratase activity [def] "Catalysis of the reaction
38 Pathogen[ Q2Q067] interacts with 2 human partners:{P61457;Q9H0N5}
39 Pathogen[ P0C214] interacts with 2 human partners:{P61457;Q9H0N5}
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40 Pathogen[ P03346] interacts with 2 human partners:{P61457;Q9H0N5}
41 Pathogen[ Q85601] interacts with 2 human partners:{Q9H0N5;P61457}
42 Pathogen[ P14079] interacts with 2 human partners:{P61457;Q9H0N5}
43 Pathogen[ P03383] interacts with 2 human partners:{P61457;Q9H0N5}
44 Pathogen[ P03410] interacts with 2 human partners:{Q9H0N5;P61457}
45 Pathogen[ P14075] interacts with 2 human partners:{Q9H0N5;P61457}
46 Pathogen[ P0C206] interacts with 2 human partners:{P61457;Q9H0N5}
47 Pathogen[ P03363] interacts with 2 human partners:{Q9H0N5;P61457}
48 [Cluster 5]GO:0004601+F molecular_function [name] peroxidase activity [def] "Catalysis
of the reaction
49 Pathogen[ Q2Q067] interacts with 5 human
partners:{Q9BRA2;Q99497;Q06830;P68871;P69905}
50 Pathogen[ P0C214] interacts with 5 human
partners:{Q9BRA2;P69905;Q99497;Q06830;P68871}
51 Pathogen[ P03346] interacts with 5 human
partners:{Q9BRA2;P69905;Q99497;P68871;Q06830}
52 Pathogen[ Q85601] interacts with 5 human
partners:{Q99497;P69905;Q9BRA2;P68871;Q06830}
53 Pathogen[ P14079] interacts with 5 human
partners:{Q8WWM9;Q99497;P69905;P68871;Q9BRA2}
54 Pathogen[ P03383] interacts with 3 human partners:{Q9BRA2;P69905;P68871}
55 Pathogen[ P03410] interacts with 6 human
partners:{Q99497;Q9BRA2;Q8WWM9;P68871;P69905;Q06830}
56 Pathogen[ P14075] interacts with 3 human partners:{P68871;Q9BRA2;P69905}
57 Pathogen[ P0C206] interacts with 6 human
partners:{P68871;Q99497;P69905;Q9BRA2;Q06830;Q8WWM9}
58 Pathogen[ P03363] interacts with 3 human partners:{P69905;P68871;Q9BRA2}
59 [Cluster 6]GO:0005096+F molecular_function [name] GTPase activator activity [def]
"Increases the activity of a GTPase, an enzyme that catalyzes the hydrolysis of GTP."
[GOC
60 Pathogen[ Q2Q067] interacts with 8 human
partners:{Q9BTW9;P41220;Q12982;Q9Y2B5;Q5TB30;Q8N336;P43487;Q15276}
61 Pathogen[ P0C214] interacts with 12 human
partners:{Q9Y2B5;P41220;Q5TB30;P43487;Q9BTW9;P31150;P46060;P52565;Q8N336;Q12982;Q6GYQ
0;P98171}
62 Pathogen[ P03346] interacts with 14 human
partners:{P98171;P43487;Q8N336;Q96FS4;Q5TB30;P52565;P46060;P31150;Q6GYQ0;Q9H8V3;P4122
0;Q12982;Q15276;Q9Y2B5}
63 Pathogen[ Q85601] interacts with 12 human
partners:{P31150;P46060;P41220;P43487;Q12982;Q9BTW9;Q5TB30;Q9NP61;P52565;Q8N6H7;Q9Y2B
5;Q8N6T3}
64 Pathogen[ P14079] interacts with 16 human
partners:{P52565;Q9BTW9;Q12982;P31150;P98171;Q8N336;Q15276;P46060;P41220;Q9H5N1;Q9Y2B
5;Q9H8V3;Q5TB30;Q96FG2;Q15042;Q86X10}
65 Pathogen[ P03383] interacts with 4 human partners:{P41220;Q9Y2B5;P43487;Q15276}
66 Pathogen[ P03410] interacts with 18 human
partners:{Q5TB30;P98171;P41220;Q9Y2B5;Q8N336;Q96FG2;Q9BTW9;Q9NP61;P43487;Q12982;Q9H8V
3;Q15283;Q9H5N1;P31150;P52565;Q15042;P46060;Q15276}
67 Pathogen[ P14075] interacts with 5 human
partners:{P43487;Q8N336;P41220;Q9Y2B5;Q15276}
68 Pathogen[ P0C206] interacts with 17 human
partners:{Q12982;Q8N6T3;Q9BTW9;P52565;Q9Y2B5;Q9NP61;P46060;P43487;Q9H8V3;P31150;P9817
1;Q9H5N1;Q8N336;Q5TB30;P41220;Q8N6H7;Q15276}
69 Pathogen[ P03363] interacts with 15 human
partners:{Q9Y2B5;P46060;P52565;P31150;P98171;Q8N336;P43487;Q9BTW9;P41220;Q5TB30;Q96NW
4;Q7Z5H3;Q12982;Q96FS4;Q15276}
70 [Cluster 7]GO:0004652+F molecular_function [name] polynucleotide adenylyltransferase
activity [def] "Catalysis of the template-independent extension of the 3'- end of an
RNA or DNA strand by addition of one adenosine molecule at a time. Cannot initiate a
chain 'de novo'. The primer, depending on the source of the enzyme, may be an RNA or DNA
fragment, or oligo(A) bearing a 3'-OH terminal group." [EC
71 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9NVV4;P51003}
72 Pathogen[ P0C214] interacts with 2 human partners:{P51003;Q9NVV4}
73 Pathogen[ P03346] interacts with 2 human partners:{P51003;Q9NVV4}
74 Pathogen[ Q85601] interacts with 2 human partners:{Q9NVV4;P51003}
75 Pathogen[ P14079] interacts with 2 human partners:{Q9NVV4;P51003}
76 Pathogen[ P03383] interacts with 2 human partners:{Q9NVV4;P51003}
77 Pathogen[ P03410] interacts with 2 human partners:{Q9NVV4;P51003}
78 Pathogen[ P14075] interacts with 2 human partners:{P51003;Q9NVV4}
79 Pathogen[ P0C206] interacts with 2 human partners:{P51003;Q9NVV4}
80 Pathogen[ P03363] interacts with 2 human partners:{Q9NVV4;P51003}
81 [Cluster 8]GO:0050220+F molecular_function [name] prostaglandin-E synthase activity
[def] "Catalysis of the reaction
82 Pathogen[ Q2Q067] interacts with 1 human partners:{Q15185}
83 Pathogen[ P0C214] interacts with 1 human partners:{Q15185}
84 Pathogen[ P03346] interacts with 1 human partners:{Q15185}

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85 Pathogen[ Q85601] interacts with 1 human partners:{Q15185}
86 Pathogen[ P14079] interacts with 1 human partners:{Q15185}
87 Pathogen[ P03383] interacts with 1 human partners:{Q15185}
88 Pathogen[ P03410] interacts with 1 human partners:{Q15185}
89 Pathogen[ P14075] interacts with 1 human partners:{Q15185}
90 Pathogen[ P0C206] interacts with 1 human partners:{Q15185}
91 Pathogen[ P03363] interacts with 1 human partners:{Q15185}
92 [Cluster 9]GO:0031492+F molecular_function [name] nucleosomal DNA binding [def]
"Interacting selectively and non-covalently with the DNA portion of a nucleosome." [GOC]
93 Pathogen[ Q2Q067] interacts with 6 human
partners:{P05204;P18754;P05114;P82970;Q15651;O00479}
94 Pathogen[ P0C214] interacts with 6 human
partners:{Q15651;P05204;O00479;P82970;P05114;P18754}
95 Pathogen[ P03346] interacts with 6 human
partners:{O00479;P05114;P18754;P82970;Q15651;P05204}
96 Pathogen[ Q85601] interacts with 6 human
partners:{Q15651;P82970;O00479;P18754;P05114;P05204}
97 Pathogen[ P14079] interacts with 6 human
partners:{P05114;P82970;Q15651;P05204;O00479;P18754}
98 Pathogen[ P03383] interacts with 6 human
partners:{P05204;Q15651;P18754;O00479;P82970;P05114}
99 Pathogen[ P03410] interacts with 6 human
partners:{P82970;Q15651;O00479;P05204;P18754;P05114}
100 Pathogen[ P14075] interacts with 6 human
partners:{P05204;P82970;P18754;O00479;Q15651;P05114}
101 Pathogen[ P0C206] interacts with 6 human
partners:{P05114;P18754;P05204;Q15651;P82970;O00479}
102 Pathogen[ P03363] interacts with 6 human
partners:{P82970;O00479;P05114;Q15651;P18754;P05204}
103 [Cluster 10]GO:0008969+F molecular_function [name] phosphohistidine phosphatase
activity [def] "Catalysis of the reaction
104 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9H008}
105 Pathogen[ P0C214] interacts with 1 human partners:{Q9H008}
106 Pathogen[ P03346] interacts with 2 human partners:{Q9NRX4;Q9H008}
107 Pathogen[ Q85601] interacts with 1 human partners:{Q9H008}
108 Pathogen[ P14079] interacts with 3 human partners:{Q9NRX4;Q9H008;Q9UNW1}
109 Pathogen[ P03383] interacts with 1 human partners:{Q9H008}
110 Pathogen[ P03410] interacts with 3 human partners:{Q9NRX4;Q9H008;Q9UNW1}
111 Pathogen[ P14075] interacts with 1 human partners:{Q9H008}
112 Pathogen[ P0C206] interacts with 2 human partners:{Q9NRX4;Q9H008}
113 Pathogen[ P03363] interacts with 1 human partners:{Q9H008}
114 [Cluster 11]GO:0030492+F molecular_function [name] hemoglobin binding [def]
"Interacting selectively and non-covalently with hemoglobin, an oxygen carrying,
conjugated protein containing four heme groups and globin." [CHEBI]
115 Pathogen[ Q2Q067] interacts with 2 human partners:{P68871;Q9NZD4}
116 Pathogen[ P0C214] interacts with 2 human partners:{P68871;Q9NZD4}
117 Pathogen[ P03346] interacts with 2 human partners:{Q9NZD4;P68871}
118 Pathogen[ Q85601] interacts with 2 human partners:{Q9NZD4;P68871}
119 Pathogen[ P14079] interacts with 2 human partners:{P68871;Q9NZD4}
120 Pathogen[ P03383] interacts with 2 human partners:{P68871;Q9NZD4}
121 Pathogen[ P03410] interacts with 2 human partners:{P68871;Q9NZD4}
122 Pathogen[ P14075] interacts with 2 human partners:{P68871;Q9NZD4}
123 Pathogen[ P0C206] interacts with 2 human partners:{P68871;Q9NZD4}
124 Pathogen[ P03363] interacts with 2 human partners:{P68871;Q9NZD4}
125 [Cluster 12]GO:0050998+F molecular_function [name] nitric-oxide synthase binding
[def] "Interacting selectively and non-covalently with the enzyme nitric-oxide synthase."
[GOC]
126 Pathogen[ Q2Q067] interacts with 1 human partners:{P11532}
127 Pathogen[ P0C214] interacts with 2 human partners:{P60709;P11532}
128 Pathogen[ P03346] interacts with 3 human partners:{P60709;P11532;O75052}
129 Pathogen[ Q85601] interacts with 2 human partners:{P11532;P60709}
130 Pathogen[ P14079] interacts with 2 human partners:{P11532;P60709}
131 Pathogen[ P03383] interacts with 1 human partners:{P11532}
132 Pathogen[ P03410] interacts with 3 human partners:{P11532;O75052;P60709}
133 Pathogen[ P14075] interacts with 1 human partners:{P11532}
134 Pathogen[ P0C206] interacts with 2 human partners:{P60709;P11532}
135 Pathogen[ P03363] interacts with 2 human partners:{P60709;P11532}
136 [Cluster 13]GO:0070034+F molecular_function [name] telomeric RNA binding [def]
"Interacting selectively and non-covalently with the telomerase RNA template or to RNA
complementary to it." [GOC]
137 Pathogen[ Q2Q067] interacts with 2 human partners:{O14746;Q96BK5}
138 Pathogen[ P0C214] interacts with 2 human partners:{Q96BK5;O14746}
139 Pathogen[ P03346] interacts with 2 human partners:{O14746;Q96BK5}
140 Pathogen[ Q85601] interacts with 2 human partners:{Q96BK5;O14746}
141 Pathogen[ P14079] interacts with 2 human partners:{O14746;Q96BK5}
142 Pathogen[ P03383] interacts with 2 human partners:{Q96BK5;O14746}

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143 Pathogen[ P03410] interacts with 2 human partners:{O14746;Q96BK5}  
144 Pathogen[ P14075] interacts with 2 human partners:{O14746;Q96BK5}  
145 Pathogen[ P0C206] interacts with 2 human partners:{Q96BK5;O14746}  
146 Pathogen[ P03363] interacts with 2 human partners:{Q96BK5;O14746}  
147 [Cluster 14]GO:0071207+F molecular\_function [name] histone pre-mRNA stem-loop binding  
[def] "Interacting selectively and non-covalently with a conserved stem-loop structure  
found in histone pre-mRNAs." [PMID  
148 Pathogen[ Q2Q067] interacts with 1 human partners:{Q14493}  
149 Pathogen[ P0C214] interacts with 2 human partners:{Q14493;Q8IV48}  
150 Pathogen[ P03346] interacts with 1 human partners:{Q14493}  
151 Pathogen[ Q85601] interacts with 1 human partners:{Q14493}  
152 Pathogen[ P14079] interacts with 2 human partners:{Q8IV48;Q14493}  
153 Pathogen[ P03383] interacts with 1 human partners:{Q14493}  
154 Pathogen[ P03410] interacts with 2 human partners:{Q8IV48;Q14493}  
155 Pathogen[ P14075] interacts with 1 human partners:{Q14493}  
156 Pathogen[ P0C206] interacts with 2 human partners:{Q8IV48;Q14493}  
157 Pathogen[ P03363] interacts with 1 human partners:{Q14493}  
158 [Cluster 15]GO:0043021+F molecular\_function [name] ribonucleoprotein complex binding  
[def] "Interacting selectively and non-covalently with any complex of RNA and protein."  
[GOC  
159 Pathogen[ Q2Q067] interacts with 11 human  
partners:{Q96J02;O14744;Q9NVM4;O43447;Q8WWY3;O95400;O94906;Q9Y2T7;P62136;Q9BYX4;Q8IUD  
6}  
160 Pathogen[ P0C214] interacts with 11 human  
partners:{Q96J02;O95400;Q9NVM4;Q8IUD6;Q9BYX4;O94906;Q9Y2T7;P62136;O43447;Q3ZCQ8;Q8WWY  
3}  
161 Pathogen[ P03346] interacts with 12 human  
partners:{P62136;O95400;Q96J02;O43447;Q8IUD6;O14744;O94906;Q9NVM4;Q8WWY3;Q9BYX4;Q9Y2T  
7;Q3ZCQ8}  
162 Pathogen[ Q85601] interacts with 12 human  
partners:{Q96J02;Q9Y2T7;Q9NVM4;Q8IUD6;O14744;O94906;P62136;Q9BYX4;Q3ZCQ8;Q8WWY3;O9540  
0;O43447}  
163 Pathogen[ P14079] interacts with 12 human  
partners:{Q3ZCQ8;O43447;Q9BYX4;O94906;Q9NVM4;P62136;Q8WWY3;O95400;Q9Y2T7;O14744;Q96J0  
2;Q8IUD6}  
164 Pathogen[ P03383] interacts with 7 human  
partners:{O95400;O14744;O94906;Q9Y2T7;O43447;P62136;Q8WWY3}  
165 Pathogen[ P03410] interacts with 10 human  
partners:{Q8WWY3;P62136;Q9BYX4;Q9NVM4;O94906;Q3ZCQ8;O95400;O14744;Q9Y2T7;O43447}  
166 Pathogen[ P14075] interacts with 7 human  
partners:{O95400;O94906;P62136;O14744;Q9Y2T7;O43447;Q8WWY3}  
167 Pathogen[ P0C206] interacts with 12 human  
partners:{O14744;Q96J02;Q8IUD6;Q3ZCQ8;Q9NVM4;O95400;Q8WWY3;O43447;O94906;Q9BYX4;Q9Y2T  
7;P62136}  
168 Pathogen[ P03363] interacts with 11 human  
partners:{O14744;P62136;O95400;Q3ZCQ8;Q8WWY3;O43447;Q9NVM4;Q8IUD6;Q9BYX4;O94906;Q9Y2T  
7}  
169 [Cluster 16]GO:0008013+F molecular\_function [name] beta-catenin binding [def]  
"Interacting selectively and non-covalently with the beta subunit of the catenin  
complex." [GOC  
170 Pathogen[ Q2Q067] interacts with 24 human  
partners:{O00512;Q14678;P36402;Q86UU0;Q93074;Q5JTC6;O14907;Q9Y3M2;Q9Y297;Q9NYF0;P8402  
2;O15105;Q9NSA3;O60907;Q15599;Q86YW9;O75360;O95996;Q9BZK7;Q9HCK8;Q9P1Z2;Q9NSC2;Q9UMX1  
;Q86X55}  
171 Pathogen[ P0C214] interacts with 24 human  
partners:{O60907;Q15599;Q93074;P84022;O14907;Q14678;Q9Y297;Q9NSA3;Q9Y3M2;Q86YW9;O1510  
5;Q5SW24;Q9HCK8;Q9NSC2;Q86UU0;O75360;O00512;P36402;Q9BZK7;Q86X55;Q9P1Z2;Q9NYF0;Q5JTC6  
;Q9UMX1}  
172 Pathogen[ P03346] interacts with 25 human  
partners:{O60907;Q14678;P36402;Q9Y3M2;Q9NSC2;Q86YW9;Q93074;O15105;Q9NSA3;P84022;Q9HCS  
4;Q15599;O00512;Q9P1Z2;Q9HCK8;O14907;O95996;Q9NYF0;Q9BZK7;Q86X55;O75360;Q86UU0;Q9Y297  
;Q9UMX1;Q5JTC6}  
173 Pathogen[ Q85601] interacts with 25 human  
partners:{O75360;Q86X55;Q9Y3M2;O60907;Q9NYF0;Q86UU0;Q14678;O14907;O00512;P36402;Q5JTC  
6;O95996;P84022;Q9HCK8;Q9BZK7;O15105;Q86YW9;Q9NSC2;Q9P1Z2;Q9HCS4;Q9NSA3;Q9UMX1;Q93074  
;Q15599;Q5SW24}  
174 Pathogen[ P14079] interacts with 23 human  
partners:{Q9BZK7;Q5SW24;O60907;Q9UMX1;O14907;P36402;Q86YW9;O00512;Q15599;O95996;O7536  
0;Q9HCK8;Q86UU0;Q9Y3M2;P49023;Q93074;O15105;Q5JTC6;Q9P1Z2;Q14678;Q8WZA0;Q9NSC2;Q9NYF0  
}  
175 Pathogen[ P03383] interacts with 21 human  
partners:{Q14678;Q86YW9;O60907;O75360;Q86X55;Q93074;Q86UU0;O15105;Q9NSA3;P84022;Q9NSC  
2;Q5JTC6;Q9Y3M2;O00512;P36402;Q9HCK8;Q9NYF0;Q9BZK7;O14907;Q9UMX1;Q9P1Z2}  
176 Pathogen[ P03410] interacts with 26 human  
partners:{P84022;O00512;Q9NSA3;P36402;Q9Y3M2;Q86YW9;Q8WZA0;Q86X55;Q9P1Z2;Q15599;O9599  
6;Q5SW24;O14907;Q9HCK8;Q9NYF0;Q5JTC6;Q14678;O15105;Q9HCS4;Q9BZK7;Q93074;O75360;Q9NSC2

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;Q9UMX1;O60907;Q86UU0}
177 Pathogen[ P14075] interacts with 21 human
partners:{Q86UU0;Q9NSC2;O00512;Q86YW9;Q93074;Q9NSA3;Q86X55;Q9HCK8;O14907;O60907;Q9P1Z
2;O75360;O15105;P36402;Q5JTC6;Q9BZK7;Q14678;P84022;Q9Y3M2;Q9NYF0;Q9UMX1}
178 Pathogen[ P0C206] interacts with 24 human
partners:{P84022;Q9HCK8;O00512;Q9NSA3;Q86UU0;Q9UMX1;O60907;Q9NSC2;Q86X55;Q14678;Q9HCS
4;Q9P1Z2;Q86YW9;O95996;O75360;Q5SW24;O14907;O15105;Q15599;Q9BZK7;Q9NYF0;Q93074;P36402
;Q5JTC6}
179 Pathogen[ P03363] interacts with 23 human
partners:{O14907;Q5JTC6;O75360;O95996;Q9UMX1;P36402;Q9BZK7;O60907;Q9Y3M2;Q9NYF0;O1510
5;Q9HCS4;Q9NSA3;Q9HCK8;Q9P1Z2;O00512;P84022;Q86UU0;Q93074;Q15599;Q86YW9;Q14678;Q86X55
}
180 [Cluster 17]GO:0004134+F molecular_function [name] 4-alpha-glucanotransferase
activity [def] "Catalysis of the transfer of a segment of a (1->4)-alpha-D-glucan to a
new 4-position in an acceptor, which may be glucose or (1->4)-alpha-D-glucan." [EC
181 Pathogen[ Q2Q067] interacts with 1 human partners:{P35573}
182 Pathogen[ P0C214] interacts with 1 human partners:{P35573}
183 Pathogen[ P03346] interacts with 1 human partners:{P35573}
184 Pathogen[ Q85601] interacts with 1 human partners:{P35573}
185 Pathogen[ P14079] interacts with 1 human partners:{P35573}
186 Pathogen[ P03383] interacts with 1 human partners:{P35573}
187 Pathogen[ P03410] interacts with 1 human partners:{P35573}
188 Pathogen[ P14075] interacts with 1 human partners:{P35573}
189 Pathogen[ P0C206] interacts with 1 human partners:{P35573}
190 Pathogen[ P03363] interacts with 1 human partners:{P35573}
191 [Cluster 18]GO:0005102+F molecular_function [name] receptor binding [def]
"Interacting selectively and non-covalently with one or more specific sites on a receptor
molecule, a macromolecule that undergoes combination with a hormone, neurotransmitter,
drug or intracellular messenger to initiate a change in cell function." [GOC
192 Pathogen[ Q2Q067] interacts with 27 human
partners:{O14734;P07737;Q9Y3F4;O60296;Q8IVG9;Q15596;Q96SL8;Q12933;O15117;P48552;P1114
2;O75381;P78352;O43768;P67870;Q96PM5;O15164;P56211;Q15599;Q99996;P16333;Q15257;P27986
;Q14244;Q6STE5;Q13023;O60716}
193 Pathogen[ P0C214] interacts with 30 human
partners:{O43768;O15117;O75874;Q96PM5;O60716;P48552;Q13023;Q15599;Q6STE5;O75381;Q1525
7;O60296;P05121;P78352;Q13011;P56211;Q14244;Q12933;P07093;Q9Y3F4;P16333;O15164;O14734
;Q96SL8;Q99996;Q15596;P67870;P27986;P55072;P11142}
194 Pathogen[ P03346] interacts with 33 human
partners:{O14908;P06401;Q15036;O60716;P78352;Q15257;Q96PM5;Q8IVG9;P11142;Q13023;O6029
6;P56211;P55072;Q6P3W7;P26038;O43768;O75381;P16333;Q15599;Q15596;Q9Y3F4;Q6STE5;Q99996
;Q14244;O14734;Q96SL8;P48552;P07737;P67870;O15117;O15164;Q9NRD5;P27986}
195 Pathogen[ Q85601] interacts with 29 human
partners:{Q6STE5;Q14244;Q15036;P16333;Q96PM5;O15164;Q15596;P56211;P27986;P07737;O1473
4;O60716;O60296;O15117;O43768;Q12933;P11142;Q9Y3F4;P78352;P05121;Q99996;P67870;Q96SL8
;P48552;Q13023;O75381;P07093;Q15257;Q15599}
196 Pathogen[ P14079] interacts with 40 human
partners:{P04083;P48552;O15164;P49753;Q15036;Q14242;P11142;Q6STE5;Q15596;Q99996;O4376
8;Q9UHF0;Q9BT09;Q13023;A8MXV4;Q8IVG9;P26038;P07737;Q14244;Q9Y3F4;Q8NEV9;P56211;O95822
;P06280;O15117;O60610;Q15599;P16333;O14734;Q9UJZ1;Q8IU54;Q96SL8;O60296;Q12933;Q92896;
P67870;O75381;O14908;O60716;Q99836}
197 Pathogen[ P03383] interacts with 25 human
partners:{Q14244;O60716;P27986;Q15596;Q96SL8;Q15257;Q13023;Q6STE5;O14734;P07737;O1511
7;O60296;O43768;Q12933;O75381;Q96PM5;Q9Y3F4;P11142;P67870;Q99996;P48552;P56211;P16333
;P78352;Q8IVG9}
198 Pathogen[ P03410] interacts with 44 human
partners:{P27986;P05121;O60610;Q99996;Q13445;Q13011;Q9BT09;Q14242;Q15257;O60716;O1490
8;P11142;P16333;Q9Y3F4;O75381;Q8IVG9;Q92896;Q15599;O14734;Q9NRD5;P26038;Q9NRR1;Q9UHF0
;Q15036;Q8NEV9;Q13023;Q12933;A8MXV4;Q9UJZ1;O60296;O43768;Q15596;O15117;P49753;Q6STE5;
P67870;P78352;P48552;Q14244;P56211;P07737;Q96SL8;O95822;Q5MZN9}
199 Pathogen[ P14075] interacts with 26 human
partners:{Q15257;Q96PM5;P11142;Q9Y3F4;Q96SL8;O14734;O15117;O60296;Q8IVG9;A8MXV4;P0773
7;O75381;P16333;Q99996;O43768;Q12933;P67870;P27986;P78352;P48552;P56211;Q6STE5;O60716
;Q15596;Q14244;Q13023}
200 Pathogen[ P0C206] interacts with 36 human
partners:{O60716;Q9UJZ1;Q9Y3F4;P78352;P06401;A8MXV4;Q96SL8;Q13023;O75381;P56211;Q6STE
5;O15164;Q99996;Q12933;Q15036;Q6P3W7;P27986;Q14244;Q15599;Q8IVG9;O60296;O14908;O14734
;P67870;O43768;P55072;P16333;P05121;Q15596;Q96PM5;P07737;P48552;O15117;Q9NRD5;P11142;
Q15257}
201 Pathogen[ P03363] interacts with 27 human
partners:{O14734;Q9Y3F4;Q14244;O14908;Q6STE5;Q99996;P78352;Q12933;Q15596;O60296;O1511
7;P48552;P16333;O75381;O43768;Q96PM5;Q96SL8;Q13023;Q15257;Q15599;P56211;Q8IVG9;P67870
;O60716;P27986;P11142;P07737}
202 [Cluster 19]GO:0001205+F
203 Pathogen[ Q2Q067] interacts with 2 human partners:{O95644;P17947}
204 Pathogen[ P0C214] interacts with 2 human partners:{P17947;O95644}
205 Pathogen[ P03346] interacts with 3 human partners:{Q9H2W2;O95644;P17947}
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206 Pathogen[ Q85601] interacts with 2 human partners:{095644;P17947}  
207 Pathogen[ P14079] interacts with 1 human partners:{095644}  
208 Pathogen[ P03383] interacts with 2 human partners:{095644;P17947}  
209 Pathogen[ P03410] interacts with 2 human partners:{P17947;095644}  
210 Pathogen[ P14075] interacts with 2 human partners:{P17947;095644}  
211 Pathogen[ P0C206] interacts with 2 human partners:{P17947;095644}  
212 Pathogen[ P03363] interacts with 3 human partners:{P17947;Q9H2W2;095644}  
213 [Cluster 20]GO:0004536+F molecular\_function [name] deoxyribonuclease activity [def]  
"Catalysis of the hydrolysis of ester linkages within deoxyribonucleic acid." [GOC  
214 Pathogen[ Q2Q067] interacts with 3 human partners:{000273;Q66K74;076075}  
215 Pathogen[ P0C214] interacts with 3 human partners:{000273;076075;Q66K74}  
216 Pathogen[ P03346] interacts with 5 human  
partners:{Q66K74;Q13609;076075;P24855;000273}  
217 Pathogen[ Q85601] interacts with 3 human partners:{Q66K74;076075;000273}  
218 Pathogen[ P14079] interacts with 6 human  
partners:{076075;Q13609;Q66K74;P49184;P24855;000273}  
219 Pathogen[ P03383] interacts with 1 human partners:{000273}  
220 Pathogen[ P03410] interacts with 6 human  
partners:{P49184;Q13609;076075;000273;Q66K74;P24855}  
221 Pathogen[ P14075] interacts with 1 human partners:{000273}  
222 Pathogen[ P0C206] interacts with 5 human  
partners:{076075;P24855;Q66K74;Q13609;000273}  
223 Pathogen[ P03363] interacts with 5 human  
partners:{000273;Q66K74;Q13609;076075;P24855}  
224 [Cluster 21]GO:0003712+F molecular\_function [name] transcription cofactor activity  
[def] "Interacting selectively and non-covalently with a regulatory transcription factor  
and also with the basal transcription machinery in order to modulate transcription.  
Cofactors generally do not bind DNA, but rather mediate protein-protein interactions  
between regulatory transcription factors and the basal transcription machinery." [GOC  
225 Pathogen[ Q2Q067] interacts with 33 human  
partners:{Q9Y4A5;Q96HR3;Q9NPJ6;Q9H5Q4;Q7KZF4;075478;Q16633;Q05195;Q93074;075448;06024  
4;P48552;000170;P62324;060711;Q13287;Q92831;Q14653;Q9UHV7;P28324;000625;P82094;043679  
;Q9NVC6;P61244;014593;Q92499;Q9Y2X0;Q9P1Z2;Q92793;Q86U70;Q14188;Q9Y2W1}  
226 Pathogen[ P0C214] interacts with 35 human  
partners:{000170;Q05195;P61244;P48552;Q9Y2X0;075478;Q93074;Q92793;Q96HR3;Q9NVC6;06024  
4;Q7KZF4;P82094;Q16633;Q86U70;P28324;043679;P62324;060711;Q4LE28;Q14653;Q9Y4A5;Q9UHV7  
;014593;Q92499;Q92831;075448;000625;Q9P1Z2;P16220;Q9Y2W1;Q13287;Q14188;Q9NPJ6;Q9H5Q4}  
227 Pathogen[ P03346] interacts with 36 human  
partners:{Q86U70;P28324;Q9NPJ6;P16220;Q14188;Q96HZ4;P82094;Q96HR3;Q93074;000170;06024  
4;Q92831;Q13287;Q4LE28;075448;Q92499;075478;Q9Y4A5;Q7KZF4;Q9P1Z2;043679;Q9H5Q4;014593  
;Q05195;Q14653;Q16633;P61244;Q9NVC6;P48552;000625;Q9Y2X0;Q92793;P62324;Q9Y2W1;060711;  
Q9UHV7}  
228 Pathogen[ Q85601] interacts with 35 human  
partners:{Q9Y2X0;Q86U70;Q9UHV7;Q05195;Q9Y4A5;P62324;Q14188;075448;Q92831;Q92499;Q7KZF  
4;000170;Q16633;Q14653;060711;P16220;043679;014593;P61244;Q4LE28;P82094;000625;Q9H5Q4  
;P48552;Q92793;Q9P1Z2;Q9Y2W1;060244;Q96HR3;Q93074;075478;P28324;Q9NPJ6;Q9NVC6;Q13287}  
229 Pathogen[ P14079] interacts with 32 human  
partners:{000625;P48552;060244;Q9Y2X0;Q9Y4A5;P62324;Q14653;043679;Q92793;000170;Q1663  
3;Q86U70;Q96HR3;Q9NVC6;060711;075448;P82094;Q9UHV7;Q9NPJ6;014593;Q05195;075478;Q92499  
;P15941;Q7KZF4;Q9H5Q4;Q93074;Q9P1Z2;Q13287;P61244;Q14188;Q9Y2W1}  
230 Pathogen[ P03383] interacts with 35 human  
partners:{Q92831;Q14653;075478;P16220;Q16633;P62324;Q86U70;Q9Y4A5;060244;Q4LE28;00017  
0;Q9H5Q4;Q9NPJ6;Q93074;Q96HR3;Q13287;075448;P28324;Q05195;Q7KZF4;000625;060711;043679  
;014593;Q14188;P82094;P48552;Q9UHV7;Q92499;Q9NVC6;Q9Y2W1;P61244;Q9Y2X0;Q9P1Z2;Q92793}  
231 Pathogen[ P03410] interacts with 36 human  
partners:{060711;Q92831;Q9Y2W1;P82094;P15941;Q9NVC6;Q14653;P28324;Q9NPJ6;043679;Q1663  
3;Q14188;P61244;Q9P1Z2;000625;Q92793;Q13287;Q9Y4A5;000170;Q92499;P62324;Q86U70;P16220  
;Q9H5Q4;Q4LE28;Q96HR3;060244;Q9UHV7;014593;Q7KZF4;Q9Y2X0;075478;Q93074;P48552;075448;  
Q05195}  
232 Pathogen[ P14075] interacts with 35 human  
partners:{Q16633;Q9H5Q4;Q86U70;Q9NPJ6;P62324;Q92831;Q96HR3;P82094;P61244;Q13287;00062  
5;075448;Q9Y4A5;Q05195;Q93074;Q92499;075478;P28324;Q4LE28;000170;Q14653;Q9UHV7;043679  
;060244;Q9P1Z2;014593;Q92793;Q9NVC6;P48552;060711;P16220;Q7KZF4;Q9Y2W1;Q14188;Q9Y2X0}  
233 Pathogen[ P0C206] interacts with 36 human  
partners:{043679;P62324;Q14188;Q05195;Q96HR3;P16220;Q7KZF4;000625;Q9P1Z2;Q13287;Q9UHV  
7;Q92831;Q96HZ4;Q92793;014593;Q16633;Q9Y4A5;Q9NPJ6;P28324;Q9Y2W1;075478;P61244;060244  
;Q9H5Q4;Q9NVC6;Q86U70;075448;000170;Q9Y2X0;P48552;060711;Q92499;Q93074;P82094;Q4LE28;  
Q14653}  
234 Pathogen[ P03363] interacts with 34 human  
partners:{Q14653;Q86U70;Q4LE28;Q96HR3;Q92831;Q96HZ4;P16220;043679;014593;Q7KZF4;P6124  
4;P48552;P62324;Q9P1Z2;Q9NVC6;Q9UHV7;Q92499;Q93074;Q92793;Q16633;075448;Q05195;Q9Y4A5  
;000625;Q14188;Q9NPJ6;060244;075478;P82094;Q13287;000170;060711;P28324;Q9H5Q4}  
235 [Cluster 22]GO:0071837+F molecular\_function [name] HMG box domain binding [def]  
"Interacting selectively and non-covalently with an HMG box domain, a protein domain that  
consists of three helices in an irregular array. HMG-box domains are found in one or more  
copies in HMG-box proteins, which form a large, diverse family involved in the regulation

of DNA-dependent processes such as transcription, replication, and strand repair, all of which require the bending and unwinding of chromatin." [GOC

236 Pathogen[ Q2Q067] interacts with 6 human partners:{O43365;P08047;P09017;P50221;Q5T230;P54821}

237 Pathogen[ P0C214] interacts with 4 human partners:{O43365;Q5T230;P50221;P08047}

238 Pathogen[ P03346] interacts with 9 human partners:{P54821;P50221;P20264;P08047;Q5T230;O43365;P09017;Q13516;P56178}

239 Pathogen[ Q85601] interacts with 4 human partners:{Q5T230;P08047;P50221;O43365}

240 Pathogen[ P14079] interacts with 3 human partners:{Q5T230;O43365;P50221}

241 Pathogen[ P03383] interacts with 4 human partners:{P08047;O43365;Q5T230;P50221}

242 Pathogen[ P03410] interacts with 4 human partners:{Q5T230;P50221;P08047;O43365}

243 Pathogen[ P14075] interacts with 4 human partners:{O43365;P50221;Q5T230;P08047}

244 Pathogen[ P0C206] interacts with 5 human partners:{O43365;P54821;P50221;P08047;Q5T230}

245 Pathogen[ P03363] interacts with 8 human partners:{Q13516;O43365;P50221;P20264;Q5T230;P54821;P08047;P09017}

246 [Cluster 23]GO:0044548+F

247 Pathogen[ Q2Q067] interacts with 3 human partners:{P50995;P31949;P23297}

248 Pathogen[ P0C214] interacts with 3 human partners:{P31949;P50995;P23297}

249 Pathogen[ P03346] interacts with 4 human partners:{P23297;P06703;P50995;P31949}

250 Pathogen[ Q85601] interacts with 3 human partners:{P50995;P23297;P31949}

251 Pathogen[ P14079] interacts with 4 human partners:{P50995;P31949;P23297;P06703}

252 Pathogen[ P03383] interacts with 2 human partners:{P50995;P23297}

253 Pathogen[ P03410] interacts with 4 human partners:{P50995;P31949;P06703;P23297}

254 Pathogen[ P14075] interacts with 2 human partners:{P50995;P23297}

255 Pathogen[ P0C206] interacts with 4 human partners:{P31949;P50995;P06703;P23297}

256 Pathogen[ P03363] interacts with 3 human partners:{P31949;P50995;P23297}

257 [Cluster 24]GO:0015036+F molecular\_function [name] disulfide oxidoreductase activity [def] "Catalysis of the reaction

258 Pathogen[ Q2Q067] interacts with 1 human partners:{P38432}

259 Pathogen[ P0C214] interacts with 1 human partners:{P38432}

260 Pathogen[ P03346] interacts with 2 human partners:{O43396;P38432}

261 Pathogen[ Q85601] interacts with 1 human partners:{P38432}

262 Pathogen[ P14079] interacts with 1 human partners:{P38432}

263 Pathogen[ P03383] interacts with 1 human partners:{P38432}

264 Pathogen[ P03410] interacts with 1 human partners:{P38432}

265 Pathogen[ P14075] interacts with 1 human partners:{P38432}

266 Pathogen[ P0C206] interacts with 1 human partners:{P38432}

267 Pathogen[ P03363] interacts with 2 human partners:{O43396;P38432}

268 [Cluster 25]GO:0003779+F molecular\_function [name] actin binding [def] "Interacting selectively and non-covalently with monomeric or multimeric forms of actin, including actin filaments." [GOC

269 Pathogen[ Q2Q067] interacts with 68 human partners:{O15511;Q9Y2J2;Q01082;P50402;Q9Y613;P07737;Q8WX93;Q14315;Q9NQW6;O00291;P35080;Q9P2M7;Q8IZW8;Q9UKX2;O75167;O14639;Q8N3V7;P63313;O43516;O14604;Q8N6F7;Q13884;Q6H8Q1;P29966;O00401;Q8NF91;Q92558;O95198;P60673;Q8TF74;P23528;Q9HBL0;Q8N0Z2;P0CG35;P11532;Q8NFW9;P62328;P11171;P48788;P46939;Q9C0D0;P0CG34;P06396;Q9BR76;Q9NVD7;Q13045;Q9UMS6;Q86TC9;P12883;P59998;P42768;P40121;Q9Y2M5;Q04917;Q8TCJ0;Q9ULG1;Q13425;Q969V6;Q9H204;P35579;P49006;Q9BX66;Q9BVN2;Q96IZ0;Q9UH77;Q9Y281;Q9NPC6;Q8N9B5}

270 Pathogen[ P0C214] interacts with 81 human partners:{P35080;Q8NFW9;Q9UI08;P49006;A7E2Y1;P48788;P29966;Q8N0Z2;Q8N6F7;Q9UKX2;O95198;Q96IZ0;O00159;Q04917;Q9Y2K3;Q9Y281;P40121;Q9UMS4;P11055;P63313;Q9UMS6;Q9BX66;Q9NPC6;O14639;Q9ULG1;Q9Y613;P06396;Q13884;P0CG35;Q01082;Q14315;P11532;O43516;Q13045;P0CG34;P35580;Q8NF91;Q8TF74;Q13425;O14604;P13535;Q86TC9;P50402;P46939;Q9Y2M5;Q16658;Q14019;P19429;P12882;P59998;Q96KR7;O75167;P12883;Q9C0D0;Q92558;Q8N9B5;Q9HBL0;Q9H204;Q9P2M7;Q9BVN2;Q2V2M9;P60673;Q7Z406;O15144;Q969V6;O00401;P13533;Q9Y623;Q6H8Q1;Q9NVD7;Q8N3V7;P42768;Q8TCJ0;Q7L5Y9;Q9UH77;P35749;O00291;P11171;P62328;Q9BR76;O15511}

271 Pathogen[ P03346] interacts with 109 human partners:{Q13425;Q86TC9;Q8N3V7;Q8N0Z2;Q96KR7;Q9Y281;P02549;O14908;Q8WX93;Q9NSV4;Q14315;Q9NQW6;Q9BQE9;Q8N9B5;Q9UH77;O14639;Q8IZW8;O15511;Q9P253;O15144;O43516;Q9Y613;P11277;P42768;P35579;Q8N6F7;Q9UMS6;Q13884;P0CG34;Q8WXH0;Q9ULG1;Q27J81;Q15149;O14682;Q9BR76;Q08495;Q969V6;P28289;Q9UI08;Q9BX66;O00291;Q6H8Q1;P46939;P26038;Q96AX9;A8K0Z3;Q04917;Q2V2M9;Q9Y664;Q13813;O75167;Q13424;Q6NYC8;Q9C0H6;Q01082;Q8TCJ0;P59998;Q14847;P11171;O76041;Q96IZ0;P60673;P35080;P40121;Q9Y4G6;O43491;Q92558;Q9HBL0;O15145;O95198;O14604;Q9Y2J2;Q9C0D0;Q6ZMZ3;O94929;P50402;P29966;Q8NFW9;Q9NVD7;Q08AE8;Q9ULV0;Q8TF74;P63313;P49006;P62328;Q14019;Q9UKX2;Q16658;P11532;Q9BVN2;P24855;P0CG35;P07737;P06396;P23528;Q13045;Q9Y2M5;P28290;O00401;Q8NF91;Q9H204;P48788;Q8TDZ2;Q9P2M7;Q9UJC3;O75146;Q9Y573;Q9UBF9;Q9NPC6}

272 Pathogen[ Q85601] interacts with 84 human partners:{Q96IZ0;O00401;Q86TC9;O14639;O15511;Q8WX93;Q8NFW9;Q9Y2J2;Q9NVD7;P06396;Q9NQW6;Q13884;Q92558;P13533;Q2V2M9;Q9P253;Q9Y613;Q969V6;P35579;Q9BX66;P35080;Q8TF74;Q9UMS6;Q7L5Y9;Q9BVN2;Q13045;P11532;P11171;P49006;Q01082;P0CG34;Q6H8Q1;Q9BR76;Q04917;P59998;P07737;Q9NPC6;O75167;O43516;Q9UKX2;Q9Y2K3;P48788;O00159;Q8N6F7;P12882;Q8IZW8;Q7Z406;P40121;P42768;Q8N3V7;P46939;P11055;Q13425;P35749;Q9Y281;P60673;Q9ULG1;P12883;Q14315;Q9C0D0;P29966;P50402;P62328;Q9Y2M5;P35580;P0CG35;O00291;Q9UMS4;P23528;P13535;Q9HBL0;Q8N0Z2;Q9UH77;Q8NF91;Q8TCJ0;Q9C0H6;Q9H204;Q8N9B5;Q9Y623;O14604;O15144;Q9P2M7;O95198;P633

- 13}
- 273 Pathogen[ P14079] interacts with 146 human partners: {Q9H204;O43516;Q9NQW6;Q9Y2J2;P35579;O95425;P09327;Q9ULG1;O00291;Q08495;Q9Y664;O75146;A6NL28;P19429;Q9C0D0;Q8IZ21;Q9UJC3;P0CG34;P11532;Q01518;O15553;P11171;Q8TDZ2;Q9BVN2;Q8WVL2;P07951;A4UGR9;Q01082;Q8IZW8;Q16658;Q8N9B5;Q92558;P47756;Q8WX93;P49006;O14604;P24588;O14639;P26038;P40123;Q6VEQ5;Q9BPX5;P07737;Q8TCJ0;Q9UBF9;O94929;Q9NPC6;P35080;P19237;Q13045;Q7L5Y9;Q8TF74;Q9UKX2;Q14847;Q9UM54;Q04917;P60673;Q14118;Q13424;Q9Y4G6;Q969V6;P50552;Q9H269;P46939;P40121;Q9Y613;O75167;P35611;O95198;O15145;Q9HBL0;Q86TC9;Q15149;O15511;Q08AE8;Q9BQE9;Q9NQW6;Q8N205;Q96KR7;Q14315;Q9H2D6;Q8NFW9;Q9Y6U3;Q2M3G4;A6NGB9;Q9NQA3;P23528;P29966;O60610;P28289;Q53SF7;Q7Z4L9;P61158;Q702N8;P62328;O15195;P24855;Q96KX2;Q8N3V7;Q8WXH0;Q96IZ0;Q6ZMZ3;Q9P253;Q9Y2M5;O76041;Q9BR76;P48788;Q9Y281;Q8TF30;P11277;Q6H8Q1;P12883;Q9P2M7;O75366;P0CG35;Q9UH77;Q8N0Z2;Q05682;Q8N6F7;A8K0Z3;Q9C0H6;P28290;Q99439;P59998;Q2V2M9;P50402;Q8NF91;Q9UEY8;Q9BX66;Q13813;P02549;Q9UPY6;Q9NVD7;Q9Y573;P63313;O14908;Q8NHR9;O15144;P35241;Q14019;Q27J81;P42768;O00401;Q9UI08;Q9NSN8;Q9UMS6}
- 274 Pathogen[ P03383] interacts with 49 human partners: {O75167;Q8TF74;Q9Y281;P35080;Q13884;O14639;O15511;Q9UMS6;P62328;Q9H204;P49006;Q96IZ0;P63313;Q969V6;P07737;P46939;Q92558;O43516;O00401;Q9Y613;O00291;P59998;Q9BQE9;Q9UKX2;Q8N6F7;Q9UH77;Q9P2M7;P0CG35;Q8TCJ0;P29966;P42768;P11532;Q8N0Z2;P48788;P12883;P50402;P35580;Q8N9B5;Q9Y2M5;P35579;Q8N3V7;P23528;Q13045;Q9NPC6;O14604;Q13425;Q9BVN2;P06396;P0CG34}
- 275 Pathogen[ P03410] interacts with 152 human partners: {O15511;Q9BVN2;Q9UH77;Q53SF7;Q8NHR9;Q9Y573;Q96KX2;Q6NYC8;Q9UMS6;Q9UJC3;Q27J81;Q9C0H6;Q9UPY6;Q9UI08;A6NL28;Q9UKX2;Q16658;Q9UEY8;P62328;A6NGB9;P35080;Q2M3G4;Q9UBF9;P47756;Q8N3V7;O60610;Q9BQE9;P49006;Q8IZ21;Q702N8;P19429;Q6ZMZ3;Q08AE8;Q8TCJ0;Q8TDZ2;Q04917;O76041;O43516;P0CG35;P06396;Q05682;P0CG34;Q9ULV0;Q9C0D0;Q14019;Q8N6F7;Q7Z4L9;P11532;O75167;Q92558;Q9ULG1;Q13425;P28289;O15145;Q6H8Q1;O00401;O00159;O14639;P59998;O14908;P35579;P42768;O94929;O00291;Q9Y6U3;Q9P253;Q9H987;Q13045;Q9NQW6;Q8TF30;P02549;O75146;P33241;Q9H204;Q8NFW9;Q9NPC6;Q13884;Q969V6;P11171;P40123;Q9UM54;O95425;P60673;Q8IZW8;Q8N205;P50552;Q14315;Q96KR7;P07951;P12882;P26038;O43491;Q99439;Q9NYL9;Q9BPX5;O14604;Q9Y2J2;O95198;P46939;Q14847;Q9HBL0;Q08495;Q9Y613;P12883;Q96IZ0;Q9BR76;Q14118;Q9Y4G6;Q6VEQ5;Q2V2M9;P48788;Q9Y281;Q8WVL2;P50402;P35580;P28290;A4UGR9;Q8N9B5;Q9NVD7;P13533;Q01082;Q8N0Z2;O15144;Q9P2M7;P35241;Q01518;P23528;Q13424;Q15149;Q9Y664;P40121;P13535;Q13813;Q9H269;P63313;P07737;Q7L5Y9;Q8WXH0;Q9NQA3;P35611;Q8WX93;P11277;Q9H2D6;P29966;Q86TC9;Q8TF74;Q9BX66;P24588;P24855;Q9Y2M5;A8K0Z3;Q8NF91}
- 276 Pathogen[ P14075] interacts with 52 human partners: {P0CG34;P11532;Q9Y2J2;Q8N3V7;Q9NPC6;P49006;Q13884;Q9UKX2;P62328;Q9BVN2;Q13425;P42768;Q7L5Y9;Q9Y613;P63313;P50402;O15511;Q8N0Z2;Q96IZ0;P07737;P23528;O43516;O00291;Q9H204;O00401;O14604;P29966;P46939;Q8TCJ0;Q6NYC8;Q8TF74;P06396;Q9UH77;P35579;P0CG35;Q969V6;O14639;P35080;P48788;Q92558;Q9BQE9;Q9UMS6;P59998;Q9P2M7;Q9Y2M5;P28290;Q8N9B5;Q9Y281;P11171;Q8N6F7;Q13045;O75167}
- 277 Pathogen[ P0C206] interacts with 113 human partners: {Q8TF30;O14604;O15511;P0CG35;P0CG34;Q96AX9;Q9HBL0;P46939;Q01082;Q14019;P50402;Q9UM54;P06396;Q86TC9;Q96IZ0;P60673;P47756;O00291;P13533;Q8N3V7;O43516;P40121;Q9Y623;Q9BR76;Q9NVD7;Q14315;Q9NQW6;P62328;Q2V2M9;Q8NFW9;Q9C0H6;Q13045;Q9UMS6;P19429;P59998;Q8WX93;Q8IZW8;Q27J81;Q9BQE9;Q04917;Q9UI08;O15145;P11055;Q8TCJ0;Q9C0D0;P24855;Q8N9B5;Q8N6F7;O94929;O76041;Q6ZMZ3;Q13884;Q6VEQ5;Q8NF91;Q969V6;P12883;Q8TF74;Q7L5Y9;Q16658;P35080;Q9ULG1;Q13425;O00159;P28290;P49006;P12882;O43491;O14908;Q92558;P35749;Q2M3G4;P35579;O00401;Q9UKX2;Q8N205;O15144;Q9BX66;Q8WXH0;Q08495;A6NGB9;Q9Y613;Q8WVL2;P11277;Q9P253;O95198;P63313;Q9P2M7;Q9H204;O14639;Q6NYC8;Q9Y2M5;Q9UJC3;P11532;P48788;P42768;P07737;Q13424;Q9NPC6;Q8TDZ2;P35580;P23528;P13535;O75167;Q8N0Z2;Q9UH77;Q96KR7;Q9Y2J2;Q08AE8;P29966;Q6H8Q1;P11171;Q9Y281;Q9BVN2}
- 278 Pathogen[ P03363] interacts with 117 human partners: {Q8N6F7;Q08AE8;Q86TC9;Q8N3V7;Q9H2D6;P46939;Q8NF91;P11277;O14908;Q2M3G4;Q6ZMZ3;Q9H987;A6NL28;Q9ULG1;Q9BX66;P02549;O14682;Q9UPY6;P35080;P0CG35;P35579;Q96IZ0;P60673;Q9NQW6;Q9BR76;P62328;Q9UKX2;P63313;Q8NFW9;Q9UBF9;Q01082;Q14847;Q13045;Q8NHR9;Q9BPX5;P42768;Q9C0D0;Q9NSV4;Q9Y613;Q969V6;Q92558;Q9BQE9;Q7L576;Q9Y4G6;Q08495;Q8N0Z2;P48788;Q13425;Q14019;P06396;O15144;P59998;Q15149;Q9UI08;Q9Y2M5;P11532;Q6H8Q1;Q9NZR1;P28290;P11171;Q8IZW8;Q2V2M9;Q96PQ7;O15143;O75167;P0CG34;O95198;P23528;Q8WX93;Q13884;P29966;P50402;Q9C0H6;P28289;Q9HBL0;O43491;Q9BVN2;O00401;Q9UH77;Q8TCJ0;Q9UMS6;Q9NYL9;O43516;Q27J81;Q04917;Q9H204;O75146;Q9Y664;P24855;O76041;Q9NVD7;Q96KR7;O14604;Q9NPC6;P49006;Q6NYC8;P19429;Q13813;Q16658;Q8WVL2;P40121;Q8TF74;Q9P2M7;Q8N9B5;Q9NSN8;Q9Y2J2;Q14315;O00291;O15145;Q9Y573;P07737;O14639;O15511;Q96AX9;Q13424;Q9Y281;Q9UJC3}
- 279 [Cluster 26]GO:0009000+F molecular\_function [name] translation repressor activity, nucleic acid binding [def] "Antagonizes the ribosome-mediated translation of mRNA into a polypeptide via direct binding to nucleic acid." [GOC
- 280 Pathogen[ Q2Q067] interacts with 3 human partners: {Q9ULR5;Q00577;Q96QR8}
- 281 Pathogen[ P0C214] interacts with 3 human partners: {Q96QR8;Q00577;Q9ULR5}
- 282 Pathogen[ P03346] interacts with 4 human partners: {Q9ULR5;Q96QR8;Q00577;Q92879}
- 283 Pathogen[ Q85601] interacts with 3 human partners: {Q96QR8;Q9ULR5;Q00577}
- 284 Pathogen[ P14079] interacts with 3 human partners: {Q96QR8;Q00577;Q9ULR5}
- 285 Pathogen[ P03383] interacts with 3 human partners: {Q9ULR5;Q00577;Q96QR8}
- 286 Pathogen[ P03410] interacts with 3 human partners: {Q9ULR5;Q00577;Q96QR8}
- 287 Pathogen[ P14075] interacts with 3 human partners: {Q96QR8;Q00577;Q9ULR5}
- 288 Pathogen[ P0C206] interacts with 3 human partners: {Q9ULR5;Q96QR8;Q00577}
- 289 Pathogen[ P03363] interacts with 4 human partners: {Q9ULR5;Q92879;Q96QR8;Q00577}

- 290 [Cluster 27]GO:0003700+F molecular\_function [name] sequence-specific DNA binding transcription factor activity [def] "Interacting selectively and non-covalently with a specific DNA sequence in order to modulate transcription. The transcription factor may or may not also interact selectively with a protein or macromolecular complex." [GOC
- 291 Pathogen[ Q2Q067] interacts with 593 human partners:{Q13562;Q12901;O60806;Q9H4I2;Q9Y473;Q9BYE7;Q14526;O43365;P52742;Q9UKI9;Q9NZI7;P27540;P17544;Q13118;P25490;Q92750;P01100;P22392;P35789;Q9Y6X8;Q92988;Q8N187;Q9H2G9;Q04864;Q9UHL9;Q16236;Q03923;P62633;Q9BUG6;Q96S65;O43364;O15525;Q9UC06;Q14258;Q99583;Q8IX15;Q12837;Q9Y5Q3;Q03052;O75461;P17029;P52738;Q10587;A0AVK6;Q9UMS5;A6NFQ7;Q7Z353;Q9HBZ2;Q9BRR0;P10827;A6NJL1;P04198;P15884;P20226;P09067;Q9GZW5;Q13033;Q9UJL9;Q9UQ80;O60304;P23511;P24278;Q05066;Q06416;Q13487;Q63HK5;P0CJ88;Q99081;Q8N0Y2;Q9Y2D1;Q9Y3Q8;Q9UHB7;Q9H175;O00470;Q9UBX2;Q13887;P06400;Q6ZN32;Q8WYA1;P29374;P51825;Q01094;P40763;P78424;P14921;Q13889;P01106;Q9H2P0;Q13148;P10073;O14503;P36402;Q9NR55;O60481;P67809;Q13485;A6NGD5;Q01543;O00287;P10589;Q9UC07;P35680;Q14549;Q12986;P31274;Q95997;P13056;P31268;Q8IUE1;Q9UHF7;O43189;P62508;P51508;P48380;O14813;P35712;P41182;Q9Y2X9;P10828;Q96AE4;Q15562;P55197;Q8NBB4;O00570;P49910;Q96IS3;P18847;P0CJ87;Q9NPG3;P49716;P41970;Q9NQ87;Q96IT1;Q15697;Q6VUC0;O96004;Q92985;Q9UL49;Q7Z6R9;Q9BZE3;Q01196;Q00613;O43439;O75478;Q96T88;P37275;Q8IWY8;O75081;Q5SXM2;P20749;Q05481;Q02930;O75820;Q9NZI6;P49116;P10074;O60315;Q04206;Q8WYP5;Q9P0L1;P50548;Q9ULV5;Q13547;Q9NP66;Q05195;Q96AV8;Q9BXX3;P51815;Q9UIS9;O00712;Q01201;P52741;Q14814;P39880;P18850;P50549;Q99594;Q8IUE0;P17483;P14316;Q6R2W3;O94776;Q9H4T2;O15266;P36956;A6NFD8;O95948;O14709;P41134;P41161;P0C7M4;Q7Z5D8;Q9Y5R5;Q16520;P15976;Q9BWX5;Q8N196;Q15542;O15535;Q6S9J9;Q03933;P28356;Q92754;Q96ST3;Q8TBC5;O15350;Q92759;P35638;Q9NY61;P54198;Q16534;Q96T58;Q8N1L9;Q86YP4;O14896;P51610;Q14934;Q86WP2;P09086;O75362;Q16670;Q96N95;Q9Y5A6;O75971;P17036;P17040;P17676;Q2QGD7;P17482;P1308;Q8N5Y2;Q9Y4Z2;Q8WYN3;E9PGG2;P08047;P11473;Q00978;Q13342;Q01892;P0CG00;Q96JS3;P09017;P11831;P20265;P15172;O43248;Q6NT76;P28702;Q00577;Q53GI3;Q96PT3;Q15561;Q14134;P35227;Q12962;P28069;O60663;Q9UKW6;P78545;Q7KZ85;P09629;Q9NS37;Q9UQR0;P52743;P54845;Q9Y4A8;Q00444;Q15723;Q15744;Q9GZR2;Q8N7G0;Q08050;Q9Y5B6;Q14765;Q7RTV3;Q8N5F1;Q00059;O43524;Q96G23;O43593;Q99966;Q8N5J4;Q9UL58;Q13469;P78412;P55347;A6NLW8;P78317;Q14929;P23769;P35548;Q4G112;Q9UIV1;Q99743;P20719;P51036;Q14186;Q63HK3;P40426;Q59GR2;Q15699;Q12800;A8MZ59;Q14938;O75529;Q9BQ70;Q9BTC8;P56693;Q8N7R0;O14867;P17032;P19532;Q6P9G9;Q9ULX9;O43711;P17022;Q99576;Q14653;P51504;Q9UKY1;O75505;Q96SZ4;Q6IQ32;Q15306;Q8NF99;O14948;Q14978;P84022;P78414;Q99856;P50221;P10914;Q13330;O00716;P0CJ89;O60284;O75528;Q8WUUS;P16383;P0CJ90;Q96GC6;Q00056;Q9P2R6;Q6NSW7;P28347;P31276;O15499;Q03924;Q92764;Q2M105;Q06330;P14859;Q15543;Q8IZ40;O95644;O75444;Q13127;P49848;O43541;P12525;P28324;Q2M1V0;Q9Y2N7;P11161;Q9Y603;Q9UN79;P48382;A6NDR6;O00268;O43830;Q16254;Q68CJ9;P41212;P0CJ86;P15408;O15198;P25208;Q8WVJ9;Q15329;P35869;Q9UFF9;P59923;Q9BQY4;Q96QR8;Q9GZN2;P0CJ85;Q969J2;Q16514;Q8NHW3;Q13951;Q9Y2L8;Q16621;P14651;P53805;O75030;O14771;Q9UPW6;Q9NQZ8;P61244;P55055;Q9UIH9;Q3MJ62;Q15796;O60765;Q02080;O00321;P78337;Q02556;P12524;P23760;Q95218;O14593;O14770;Q96JN0;Q99607;P19419;Q86VE0;Q13363;P49639;Q8N7U7;Q86X95;Q99687;P41162;P09016;P51786;O43812;Q15466;P19838;Q9H4S2;A8K0S8;O60675;P43268;P20823;Q15583;O75360;A6NJG6;Q9HBT7;P17861;Q07687;Q9Y2P7;Q12968;O14529;P52630;O60248;P15336;Q6NSZ9;P28698;Q9BYV9;O43186;Q7RTV0;P08235;Q15545;Q9UID6;Q14872;Q969H0;Q15170;Q9UNY5;P22415;P10244;Q6VB84;Q06455;Q13761;Q9UKT9;Q9UMQ3;P19484;P16989;O95238;P31314;Q14209;O95619;P42771;P17096;P14652;P11474;Q8IUR6;Q9GZU2;Q15714;Q00653;Q9Y5J3;Q9NY43;P47974;Q13106;O95125;P58304;O94916;Q9NP71;Q8N693;O60682;Q92793;Q8WYK2;Q01860;P18848;Q9NSC2;Q92670;P52736;Q01826;P63272;Q15853;Q9BQA5;P78347;Q9UBD0;O60869;P13682;Q04743;Q53T94;P52744;Q14188;P50222;Q9NWS9;Q8IV54;Q03060;P42226;Q96PT4;A6NJ46;Q8NA19;Q9Y692;Q6XYB7;Q8WXI9;P14653;Q13952;P15923;P10242;O43309;O14978;O60422;Q99717;P06733;P15407;Q12857;Q13568;O75376;P57086;Q9UK39;Q9Y468;Q9Y222;P22681;Q99814;P49711;P40425;Q8NSA5;Q9Y250;Q16649;Q0V699;Q9UQR1;Q14207;Q15776;Q66K89;P35711;P42224;Q86W11;P51522;P22736;Q9UN30;Q6RFH8;Q9UI36;Q15797;P23409;Q9P0W2;O75157;Q8NAP3;Q96LW9;Q9UL36;Q9BT81;Q06547;Q13105;Q9Y651;P54821;Q02078;Q9UPG8;Q96LI6;Q06546;Q07352;P40424;Q13888;Q9HOE9;P31269;P53567;P49715;P17023;Q9Y242;P18146;Q03112;P17947;P17028;P31260;P32519;Q10586;Q03936;P98168;Q03938;Q8TF39;Q3C1V8;P08651}
- 292 Pathogen[ P0C214] interacts with 519 human partners:{P41970;P22681;Q9Y3Q8;P40424;O00470;O00268;Q9UKW6;P53567;Q06732;O75444;Q9NQZ8;Q9HA82;Q14526;Q03052;P18850;O15198;P54198;Q6IQ32;Q9UHB7;O14813;Q9UHL9;Q8NA19;Q13761;Q96S65;Q05195;Q9NS37;Q16254;O14529;Q96LW9;Q9UID6;P11308;Q00653;P32243;O43365;P35789;Q13887;P35227;P49639;Q96T58;P17032;P61244;Q15697;A6NGD5;Q02930;A0AVK6;Q00613;P35869;P51508;Q13469;O60663;P16989;Q14207;P51610;P11474;O75528;Q13330;P52743;O95238;Q13952;Q8IV54;Q06546;Q13363;O75461;Q9P0L1;Q63HK3;P55347;Q9UHF7;Q9Y4A8;O43830;Q13547;P78337;Q14872;P31249;Q14929;P17023;Q6R2W3;O00321;Q96JN0;Q9Y5A6;P51814;P19838;Q05481;P14921;P52744;Q7Z5D8;Q8IWY8;Q8N5A5;P15336;Q9Y473;Q06547;Q13568;O15535;Q9H175;Q96QR8;Q96LI6;O43186;O75820;P31314;P52742;Q14587;P15407;Q9NPG3;P51825;Q8WYN3;Q9UIH9;Q8TBC5;P19484;P25208;Q99081;Q9GZU2;Q8N693;P52738;Q7KZ85;Q7Z6R9;P42226;Q5H9I0;P15884;Q8NHW3;O75478;O15350;Q99856;Q03112;Q8N0Y2;Q9UC06;O75157;Q02080;Q14765;Q9BZE3;Q16621;P01100;Q9NR55;O15266;P17275;Q92750;Q9UNY5;P17022;Q12800;O75362;P32519;Q8WYP5;Q99743;P23769;Q92793;P50548;Q9Y5J3;P35711;P19419;P56693;P67809;P15408;Q13033;P84022;Q9UL58;P17096;O95125;P15172;P17947;Q9P2R6;O14709;P17029;Q6NT76;Q99576;P17544;Q12986;P11831;Q8NAP3;Q04206;Q16520;Q63HK5;Q12962;Q06455;Q9Y5Q3;P42224;Q02386;Q3MJ62;P37275;Q68CJ9;P28347;P10914;P17482;Q5SXM2;Q9UPG8;Q9Y5B6;Q9UKI9;Q06330;P98168;Q99607;O00716;O75030;O14771;Q12901;Q8N5J4;Q86WP2;Q9Y468;Q9UC07;Q15545;Q14938;Q00978;Q15170;Q9BT81;Q96SZ4;Q9NY61;P51786;Q9H4I2;P17676;P24278;Q96T88;P78317;Q15542;P14651;Q9UIV1;Q03933;O95619;Q53GI3;Q8N7U7;O43248;P49716;Q10587;P10244;Q10586;Q6VUC0;Q9Y250;Q03936;Q9NZI7;P57086;Q9UK39;P48382;P20265;Q02078;O14503;Q15561;Q07352;P28698;Q00059;Q9NWS9;Q14258;Q9BRR0;P13056;Q9UIS9;Q99966;Q12968;Q01094;Q14814;Q86VE0;Q9Y2N7;Q9UL36;P18848;O14867;P17535;Q92754;O43439;O00712;Q141



86;Q12837;P49116;Q01201;Q92985;Q07687;Q9BQ70;P41134;Q96IT1;Q13487;O60765;P15923;Q06730;O94776;Q14978;Q9P0W2;Q02556;P17861;Q00577;Q6RFH8;Q8N9F9;O14948;Q9GZW5;O43812;O43189;P14653;P51504;Q96N95;Q8TF39;P78347;Q8IZ40;Q86YP4;Q13485;P55197;Q03924;P18847;Q9Y242;Q9BYE7;Q92769;O15105;Q9UH92;P63272;P20749;P17028;P49848;Q15329;P50222;P28324;Q9UMS5;P16383;Q96G23;Q9H2G9;P51815;O14896;P51522;Q9BUG6;Q9Y603;Q15714;Q7RTV0;Q9UN79;Q8WXI9;Q2QGD7;O75376;Q9ULX9;P19532;Q15796;P42771;Q9NSC2;Q969J2;P41223;O43593;Q15525;Q01543;Q96GC6;Q99687;Q95994;P41182;Q9Y6X8;Q6P9G9;Q03923;Q9NP71;Q9UQR0;Q9BQY4;O43541;Q9UN30;P06733;Q01892;P43268;Q9Y2D1;Q16514;O95251;Q8WYA1;Q9UJL9;Q13127;Q14934;P28069;P20226;Q969H0;Q96JS3;P13682;Q9BTC8;Q86W11;Q6NSZ9;Q14653;Q9UI36;O75529;Q9H4T2;O75360;P17040;Q9H0E9;Q9Y2X9;P10074;P36402;P10242;O14593;Q9ULV5;P39880;O60806;Q9UBD0;P62633;Q9UKT9;Q8IUR6;P05412;Q9UMQ3;Q8WVJ9;P49711;Q01826;Q13106;Q12857;Q9NZI6;P18146;Q16534;Q8N187;P0CG00;Q8N196;Q15853;Q03060;Q9GZR2;P40425;P17036;O43309;Q99814;P09086;Q96ST3;O60925;P09629;Q59GR2;P11161;Q13888;Q96AE4;Q9UFF9;P23511;Q99717;O14978;P15036;Q04864;P40763;O96004;O95218;P27540;P49910;O95997;P50221;O75971;Q9HBT7;Q9UPW6;O94916;P48380;Q53T94;P78545;P50549;O14770;Q92988;P22392;P41162;Q13342;Q9BQA5;P08651;Q15776;P22415;Q9UQ80;Q13148;P10828;Q7RTV3;Q15797;P52736;O95644;Q15543;Q9Y651;P16220;O60869;O95948;P53805;Q15562;O60315;Q9Y3D2;P52630;Q6ZN32;P54845;Q9UQR1;Q8IX15;O15499;Q9NQ87;P62508;Q9NP66;Q5EBL2;O60284;Q15699;P14859;Q9Y692;Q99583;Q86X95;Q14209;Q9Y2P7;Q01860;Q9Y2L8;Q66K89;P01106;Q3C1V8;O60675;P14316;O75081;O60248;P35712;O60304;Q14188;Q13105;P41161;P06400;Q92759;P35548;P08047;Q8N1L9;A6NJL1;Q9NY43;P35638;P31276;O00287;Q9Y5R5;Q15466;P04198;P47974;P18846;P23760;Q6SJ96;P10073;P52740;Q13951;Q9H2P0;Q15723;Q8NBB4;O00570;Q16670;Q16236;Q92670;P52741;P31269;Q15306;P59923;Q9NPG3;P41212;Q96AV8;Q03938;Q4G112;O60481;Q9Y222}

Pathogen[ P03346] interacts with 798 human partners: {Q15723;Q6R2W3;P31271;Q06330;Q99081;P85037;Q9NPG3;Q3C1V8;Q06945;P10244;Q68SJ96;P53805;Q9NPC8;Q13886;Q12901;Q05481;Q8N7U7;P31249;Q7KZ85;Q9NWS9;Q96ST3;P49716;P54821;P47902;P05412;Q9Y467;P78424;Q15542;Q9UHL9;P49639;Q16621;Q99742;Q15562;Q9UHF7;Q96S65;Q13487;Q13263;Q9NZR4;P35453;Q9Y4Z2;O75364;P31260;Q9NR83;Q96QR8;P12524;P50219;Q8TF39;P09086;Q02078;Q02386;P52954;P10827;Q9UMS5;E9PGG2;P49910;P0CJ88;P11473;Q3MJ62;P31268;P28324;P23511;Q8N653;A6NGD5;O15535;Q99811;Q99687;Q14207;Q9H2G9;Q9BRR0;Q8IUE1;Q99966;Q01201;Q8N7R0;Q9UD57;P50221;P18847;Q8N1L9;O14813;Q99612;P29374;P58012;Q14258;Q14814;P78337;O15522;Q01578;Q3KNW1;A6NFD8;Q9GZR2;Q9UPW6;A6NJ46;P16220;O60765;Q9UQR1;Q2QGD7;O75362;Q9Y2P7;Q9H2W2;O60248;P06401;Q96BA8;P17676;Q7RTV0;Q9H2Z4;Q03052;Q9UIV1;P78414;Q9Y4X4;P19484;O14901;P36402;P62633;P15336;Q99607;Q9BQY4;Q9P0W2;Q05925;P78415;P36956;P52739;Q05066;Q8N187;Q9H2P0;Q03828;Q00613;Q9UL58;P35638;P35548;Q02535;Q9BYU1;Q9Y2L8;P08235;Q06547;P11831;Q15329;Q0VG99;P28347;Q9Y5W3;Q9UQ80;Q8IUE0;O43309;Q9NP62;Q9UKT9;Q12857;Q99594;Q06732;Q7Z5D8;Q8NFW5;P48443;P06400;P0CJ87;Q4G112;P40426;Q14774;P35789;Q9GZW5;P52740;Q9BYM8;O43711;Q00577;P54845;Q13148;Q15797;Q70SY1;Q14188;O60393;P50549;Q00059;Q12772;Q96SZ4;Q9BZE3;O60315;Q9BWX5;P48382;Q03933;Q9Y3Q8;Q96HZ4;P51786;Q9UKI9;Q99626;Q12837;Q03936;Q00056;Q15911;P17275;P78347;Q14587;P52738;P49116;Q15466;Q6XYB7;Q9NZI6;Q9UIU6;P14316;P24278;Q8WYN3;P17861;Q8WYP5;P23769;Q14872;Q8N693;P25490;P0C7M4;Q15583;P19419;Q9H4S2;O14978;Q8NA19;O75971;P51610;O75505;P14859;Q9NSC2;P48380;Q8IYA7;P25208;P50548;Q8IWI9;Q13888;Q8NF99;Q8IX15;P52741;Q9NR55;P55197;Q9C0A1;P20264;P15923;Q6VB84;P78413;O75820;Q86WP2;P15172;Q15796;P56693;P23760;Q6NSW7;P15408;Q9UL68;P17535;O14709;P19622;O00712;Q04743;O00287;Q92858;P31276;Q99856;P17022;P23409;A6NFQ7;Q8N5A5;Q8TBC5;Q16520;Q12986;P35227;Q04206;Q8IZ40;Q8IV54;P0CJ85;O95238;O94776;P28698;P13056;Q9NQ69;O00321;Q9UN30;O00268;P52951;O60806;Q92886;P41161;P56177;Q9P0L1;Q92826;Q04741;Q63HK5;P15173;Q08050;Q9BPY8;Q14209;P12525;P42226;P52742;Q8IUR6;Q9BYE7;Q15306;Q9Y5Q3;Q9P2Y4;P23759;P10588;Q96QS3;Q96AE4;P14652;Q96AV8;O43186;Q9NRJ4;Q9Y2D1;P27540;Q8N5J4;Q9NP08;P58304;P16989;A6NJT0;Q99717;P20823;P0CJ89;O15350;O15105;O75626;Q9UBX0;O60682;Q16254;Q00097;Q04864;O60902;O75030;Q92670;Q9Y5R5;P10074;O43316;P14653;P42771;P63272;O00570;O00409;P31269;A2RU54;P52743;P13378;P17483;Q8NBB4;Q03923;O95644;Q01094;P17032;P49715;Q9ULX9;P17096;Q66K89;Q53GI3;Q92754;A6NJL1;Q9Y5J3;P31274;Q9UBC0;Q01860;Q92750;O95997;O14867;P20719;Q13351;O15198;O75444;Q9H4T2;Q53T94;P78426;P0CJ90;Q6P9G9;P08047;Q13889;Q9H0E9;O14503;Q15853;Q96LW9;P06733;P20226;P20265;P98168;P18850;P52736;Q14919;O43593;Q16236;Q15561;Q14934;Q9H31;O60663;Q14526;Q16650;Q9Y222;O96004;P17036;P01106;O43364;P41162;P51843;Q9UHB7;Q9NP66;O43365;Q9BXX3;Q15699;P28702;Q9UL49;Q9NP71;P28358;Q14186;P50222;P51508;Q8NOY2;Q9Y5B6;P18848;Q2M1V0;O00327;Q9BQ70;Q15170;P14921;Q06710;P84022;P11308;Q12968;P31275;P17542;Q14978;Q9HCS4;Q9Y692;Q9BYV9;Q8WUU5;Q14863;P10242;O60481;Q9UIS9;O95231;Q9C0J9;Q9UNY5;Q9H175;Q8IYM9;O43541;O75157;P22736;O14948;Q6VUC0;Q9UL36;Q5JT82;P41223;P15976;O43367;O95125;O15266;Q13033;O95056;Q13469;O75478;Q9GZN2;Q06546;P67809;O43189;Q02446;O75528;O60519;P19532;P17481;Q969G2;P10914;Q96PT4;Q96GD3;Q8N5Y2;P49640;Q86VE0;O75529;Q02556;O60479;Q9NQZ8;Q8IWX8;O95948;P41134;Q59GR2;Q9P2R6;Q9H4I2;Q03924;Q13951;Q86YP4;Q06730;Q92769;O95251;Q13342;Q6ZN32;Q9UBG7;Q8WXI9;Q13118;P49848;O15499;O95076;Q9Y2N7;P52744;Q13547;Q03112;P08651;Q99576;Q96G23;O60284;Q6IQ32;Q9Y242;P40425;Q13761;Q9UN79;O00470;P28356;P47974;P09017;Q16534;Q8WVJ9;Q9Y250;Q9NZC4;O60304;Q02548;Q175840;Q5JUN2;P49711;Q13330;Q01954;P51815;P17544;Q9NY61;P09629;Q9Y6X8;P51825;Q15744;Q96N95;O14896;P37275;P35680;P17029;Q9NQ87;P31273;Q16649;Q16514;Q15475;O14627;O43439;P10073;Q99814;Q12778;Q12800;Q9BUG6;P42224;Q9Y5R6;Q9UBX2;Q01167;Q63HK3;Q13887;Q13105;Q5H9I0;P16383;Q8N196;P22392;O75376;P98177;Q9UBD0;P09016;Q12962;Q9HBZ3;Q07352;P78317;O95718;Q9Y468;Q06416;O14593;P78367;Q05195;Q14653;P78411;Q14190;P35713;Q96T58;O75469;Q13568;P09630;P15407;P41182;A6NNA5;Q8N5P1;Q9NRM2;A8K0S8;P17028;A6NDR6;O95475;P04198;Q92759;Q68CJ9;P31267;O95619;Q9BWW7;P20749;O43830;Q9UK39;P61244;Q92481;Q13952;O15525;Q13516;Q9H2C1;P11161;P35712;P32242;P17023;P14317;P32519;P55347;O95218;O14771;A6NMT0;O75461;O60925;P41970;Q96JS3;P62508;P10828;Q9UGL1;Q9UBR4;O60422;Q9BHT7;A8MTQ0;Q28069;O43763;P17947;Q9929;Q9GZU2;Q9GZZ0;Q96MM3;Q99593;P11474;Q5XKR4;P51504;Q10586;Q13363;Q02080;Q8N7G0;P78412;Q05215;O75333;P61968;P40424;Q01196;P41212;P19838;Q9UH73;Q03060;P56178;Q13485;P22681;P

293

294

13682;Q15270;Q8WYA1;Q9Y5A6;O75360;O43812;P31314;O94916;P17040;P51522;Q9UKY1;Q9UPG8;P53567;P59923;Q9Y651;Q96IT1;Q9UC06;Q13029;A6NLW8;Q96IS3;Q9Y2X9;Q96KN3;O15516;Q969J2;P18146;Q9UFF9;P43268;Q9UH92;Q96LI6;Q6RFH8;Q7Z353;Q99583;Q92793;P39880;Q9Y603;Q9UID6;Q92985;Q15697;Q8TEY5;O60869;Q9UKW6;Q9Y458;Q86X95;P35869;P78545;Q15776;Q9Y6Q3;O00482;Q14765;Q02930;Q15545;O60675;Q9ULV5;Q9UI36;Q8TAU0;Q9H9S0;Q6NT76;Q10587;Q5SXM2;O75593;Q13562;P52630;Q96GC6;Q01892;P35711;A0AVK6;Q9BTC8;Q9BZ11;P40763;P35398;Q95729;Q9BXX1;Q8NHW3;P32243;O43524;Q96JN0;Q9Y473;Q969H0;Q86UP3;Q8NEA6;Q5EBL2;Q16670;Q68G74;P56915;Q7RTV3;Q9NS37;O95343;Q13285;P0CG00;P01100;Q9UIW0;Q9UMQ3;P49335;Q9NY43;P53539;A6NJJ6;Q99743;P15036;O00716;P09067;P17509;Q00444;O75081;Q9UIH9;O14529;Q9UC07;P0CJ86;Q14929;Q01826;P55055;A8MZ59;P54198;O43248;Q9BT81;Q6NSZ9;Q8WYK2;Q14938;Q13106;Q96PT3;Q14549;Q96T88;Q9UJL9;Q15714;O14770;Q9NZI7;P51814;Q7Z6R9;Q01543;Q86W11;P15884;Q14134;P14651;P18846;Q00653;P35452;P17482;Q6ZNG2;Q13127;Q13465;Q8NHV9;P22415;Q9HBU1;Q9Y4A8;Q9BQA5;P57086;Q06455;Q92988;Q96SF7;Q15319;Q15543;Q99581;Q9UJU5;Q9UQR0;Q03938;Q9NPC7;P10589}

Pathogen[ Q85601] interacts with 609 human

partners: {Q9UQR1;Q6R2W3;O95619;P01106;Q9P2R6;P18146;Q68CJ9;Q8N196;O15198;P78317;Q9Y250;Q14978;P51786;Q969J2;P78424;Q15542;Q9UHL9;P28698;P49639;O75971;P09629;Q63HK3;P0CG00;P51815;Q9UHF7;Q96S65;Q13487;P54198;Q8N5Y2;Q7Z5D8;Q96QR8;Q86W11;P11831;Q14929;Q15853;Q8TF39;Q9UPG8;O14896;Q02078;P17676;P15036;O60481;P62633;O75360;P17040;P11473;Q3MJ62;Q06455;Q96SZ4;Q9UNY5;P25208;P22681;O14529;O15535;O15499;Q8NBB4;Q6VUC0;Q13127;O43316;Q9GZW5;Q8IUE1;Q05528;Q16236;Q5EBL2;P14316;P17096;P41134;O14813;Q9Y4Z2;Q14765;Q14258;Q9UC07;Q92754;Q02556;P17028;P51522;P61968;Q9P0W2;Q9BWX5;Q01538;Q99687;P09086;Q6XYB7;Q15466;Q01892;Q9UPW6;A6NJ46;Q8IUR6;Q9UQ80;Q12901;P15976;Q969H0;O94776;Q7RTV0;P19484;P15172;A6NNA5;P14921;Q9ULV5;Q03052;Q9Y2N7;Q9NPG3;P13682;P08651;P17032;Q9UL58;P17036;Q06546;Q9Y2L8;P50548;O95251;Q9NY61;Q9Y603;Q15329;Q02386;Q0VG99;Q8NAP3;Q14549;Q9HBT7;A6NDR6;Q12857;Q16621;P06400;P0CJ87;Q06330;Q8N7R0;O43541;P53567;P54845;Q13148;Q15797;P50549;Q13888;P14653;Q8N7U7;Q7Z6R9;Q9BZE3;O43248;O60315;Q14587;Q03933;Q9Y3Q8;Q03936;Q13951;Q9Y651;Q99966;Q9NWS9;O75030;Q07352;P15407;Q8N7G0;Q8WYP5;Q14872;P18848;Q6NSZ9;Q14814;P19419;P40763;Q05195;O14978;P28702;Q03112;P28069;P32519;P14859;Q9Y468;O60663;P52740;P23769;P41970;Q9BUG6;Q9H0E9;Q9NR83;O15516;P78545;Q86WP2;Q13106;Q9Y2X9;Q9Y242;Q12800;Q8WYA1;O14709;Q96PT3;Q96IS3;Q15545;P17022;Q8N5A5;O60284;Q16520;P52744;Q14188;Q15723;Q12772;P25490;O43364;O00327;Q8NF99;O00268;Q2QGD7;O14503;P35712;Q10587;Q9UIV1;P06733;Q15583;Q9H4T2;P10242;Q00059;Q15306;A6NFQ7;Q9NQZ8;P18846;Q8N1L9;Q99814;P47974;P16383;P27540;Q15776;Q13363;Q8IUE0;Q8NA19;Q13469;O60682;Q00978;Q8IWI8;P19532;P10074;P78337;O43439;Q9UFF9;Q6NT76;Q99743;Q03923;P52736;O95644;O96004;Q15714;Q9Y692;P41162;O60304;P59923;Q00613;Q53GI3;O15525;Q9NP71;P55055;Q04864;P49711;Q9UID6;Q9UIH9;Q13952;Q9UJL9;P51610;Q02080;O95125;Q9Y5Q3;Q9UBG7;P10914;P08047;O60806;Q9UH92;Q01954;P52630;Q13562;P01100;Q05481;Q14934;Q13263;Q8NHW3;P41212;Q14526;Q6IQ32;O75820;P22415;Q8NEA6;Q9BQY4;Q9H4I2;Q5SXM2;Q9NP66;P31260;P23409;Q14186;P50222;Q53T94;P51508;Q8WYN3;O75444;P40424;Q14653;Q00577;Q9BQ70;Q15170;Q9GZU2;P49716;P12524;P0CJ88;Q12968;P17535;O75461;A6NGD5;A6NJJ1;Q9BYV9;Q9UIS9;P52742;Q02300;Q9H175;Q9UMQ3;Q9UBX0;Q9Y5A6;A6NJJ6;O14948;Q96JN0;P9P0L1;Q9UL36;O15266;P23511;P0CJ90;P0CJ89;Q92759;Q9BRR0;Q16649;O75529;P18847;O95948;P36956;Q03924;Q86YP4;Q9UKW6;P35711;Q92769;A6NFD8;O60765;P16220;Q99717;Q15699;Q04206;Q8WXI9;P42226;P49848;P52738;Q6S9J6;Q99576;Q96G23;P40425;Q9UN79;Q9UI36;Q3C1V8;Q8IYM9;O60248;Q7KZ85;Q13330;Q15562;Q99594;P22736;Q01543;Q9Y6X8;Q9Y222;P51825;Q15744;O14771;Q96GC6;Q96N95;P35548;P35680;P05412;P17029;Q9NQ87;Q9H2P0;Q9Y4A8;Q96T88;Q92985;Q16514;Q9BYE7;P28347;P35789;Q9UMS5;P67809;P18850;Q01826;Q9UKI9;P10244;P42771;Q9UC06;P57086;O75376;Q99612;O00470;P42224;Q01201;Q16254;P08235;O43711;Q6ZN32;Q9UN30;P22392;P17023;Q9GZR2;Q13033;Q14209;P11474;O43830;P15923;Q9HBZ2;P36402;Q8N5J4;Q13118;O14593;P10827;P58304;O43812;P32243;O14867;P48382;Q2M1V0;Q96T58;Q8N693;P56693;Q9BTC8;Q8WUUS;Q5H9I0;P53805;P0C7M4;Q14207;O43309;Q99583;Q8N5P1;P17544;A8K0S8;Q9NZI6;P31249;O00482;Q9UK39;P61244;P51504;Q9BQA5;P84022;Q99607;Q9H2G9;P31271;Q86VE0;P49715;Q06547;Q9Y2D1;Q8IV54;P14317;P41161;P55347;P37275;O95218;P31274;P62508;Q9NPC7;O60422;Q8N187;Q96AE4;Q92750;P17947;O43189;Q08050;Q6P9G9;Q12962;Q06732;P35869;P63272;Q9GZN2;O15105;Q16534;Q9UHB7;Q13342;O75157;Q9Y5R5;Q92670;O15350;Q9UBX2;Q13547;P50221;Q99081;P31314;P49116;Q66K89;O94916;P14651;Q9UKY1;O75362;O75626;Q96IT1;Q9Y473;O00570;P13056;P40426;P42718;O00287;O43365;Q00653;Q15543;Q9NSC2;O00712;P43268;Q96LI6;P15336;P51814;P10828;P41182;P04198;Q6NSW7;Q6RFH8;Q8IZ40;Q9NS37;Q92793;P39880;Q59GR2;Q15697;P31276;Q9Y2P7;O60869;P48380;Q9HCS4;O43593;Q9Y6Q3;Q9UQR0;Q06416;Q4G112;O60675;Q96JS3;Q63HK5;Q7Z7L9;P17275;A0AVK6;Q9BXX3;P19838;P20823;Q13568;P12525;Q12837;Q13485;Q8N0Y2;Q9Y5B6;P16989;Q06730;P78347;Q7RTV3;Q8TBC5;Q9UBD0;O75478;P11161;Q9H4S2;Q9NY43;P53539;P17861;P31269;Q01860;Q03060;O00716;P52743;Q00444;Q13105;P28324;Q13887;P20749;Q9UKT9;Q7Z353;Q96AV8;Q9ULX9;Q07687;Q9BT81;Q8WYK2;Q14938;Q15561;Q99856;Q01094;O14770;P23760;Q9NZI7;Q86X95;P0CJ86;P11308;P15408;O95997;A6NLW8;Q9NR55;P55197;Q9Y5J3;Q8IX15;P15884;Q8WVJ9;Q15796;P17482;Q96LW9;P20226;P20265;Q10586;Q16670;P10073;O00321;O95238;P0CJ85;P49910;O75081;P52741;P35227;P35638;Q12986;P98168;Q13761;Q92988;Q96ST3;Q03938;O75505;P10589}

Pathogen[ P14079] interacts with 578 human

partners: {Q969J2;Q96JN0;P98168;P52738;Q7Z5D8;Q5SXM2;Q13952;O60284;Q9UQR1;Q9UPW6;P52741;Q12986;P35711;E9PGG2;P51504;P15036;Q8N7U7;P13056;Q8WYK2;P0CJ89;O14867;P0CJ88;P0C7M4;Q99743;Q06732;Q53GI3;P16383;P62508;Q9HBT7;Q4G112;P52742;Q6XYB7;P55055;O60925;Q86WP2;Q10587;Q9Y5Q3;Q15561;O43364;Q9UC06;P35869;P57086;Q02078;O95125;Q99814;Q9UIS9;Q06413;Q9BWX5;Q8N196;Q8IUE1;Q8N693;P52630;Q13106;O14771;Q9Y6Q3;Q9BT81;Q06546;P14859;P10073;Q7Z7L9;Q96PT4;A8K0S8;Q969H0;P78337;Q9UNY5;Q16649;Q14653;Q15776;Q14186;Q13118;O75528;Q2M1V0;Q13148;Q15853;O00321;O60481;O15535;Q9GZU2;P23409;Q99581;O75626;Q6P9G9;O43309;Q14938;Q15911;Q96QR8;O75362;Q68CJ9;Q15723;Q9Y2N7;P35398;O14896;P53567;P67809;P47974;Q15714;Q96LI6;P10244;O43439;Q9NP66;P17022;P11473;P41223;P35680;O60682;P20265;Q9NY61;Q96ST3;P55347;P09086;Q16254;A6NJJ6;P10828;Q2QGD7;P08235;Q92985;Q14207;Q92793;Q13033;

295

P51522;P12524;O95948;Q9Y5R5;Q99607;Q9P2Y4;Q9Y468;Q63HK3;P39880;Q15583;P48382;O15198;Q8N5A5;Q9UQR0;Q15329;Q99576;Q99594;P35789;P0CJ86;P51815;Q15699;Q13330;P28347;P17096;Q03060;P11474;Q6ZN32;O95251;P48380;O95644;Q3MJ62;Q15170;Q01538;O60675;Q01826;P35712;Q9UID6;O75529;Q8WVJ9;Q9Y250;Q13487;Q8N0Y2;Q8IX15;Q99966;P54198;P58304;Q5H9I0;Q14209;Q9GZ N2;A8MZ59;Q9HA82;Q9Y5A6;O96004;P22736;Q9GZR2;Q99856;O43812;Q13105;P15976;Q9NR83;P5380 5;Q9P0L1;O75157;Q9NY43;P32519;Q13889;P19484;Q12968;Q03923;Q9H2P0;Q06732;Q86Y34;O60869 ;Q9Y2P7;P41161;Q9Y3Q8;A6NGD5;Q96SZ4;Q9BQA5;O75461;P31271;P15923;Q15306;Q9NS37;P48443; O43830;Q06547;Q14258;Q8N7G0;Q15797;P06733;Q8TBC5;Q03933;Q14765;P10827;Q9H175;Q12837;P 52744;Q8IWY8;Q9NQZ8;Q8NA19;P51610;P54845;O15350;Q15744;P09629;Q99612;Q16670;O60315;P5 1597;Q96S65;P36402;Q03938;P11308;O95718;Q01201;Q9UHB7;P08651;Q9NWS9;Q9BRR0;P51814;P28 698;P28069;P51825;Q12772;Q9UL58;Q9UKY1;P31276;Q9H0E9;P0CJ90;Q99687;Q9UC07;Q8NBB4;Q9H2 G9;Q6NT76;P42226;Q06330;Q92670;Q9NZC4;Q9NZI7;Q3C1V8;O43189;Q13888;Q00613;Q01892;Q9958 3;Q13568;Q00059;Q7KZ85;Q9P0W2;Q03924;P41182;P31274;Q8NAP3;Q9UL49;P12525;Q01543;Q8N5J4 ;P10074;P0CJ87;Q9UPG8;Q96AE4;Q14549;Q03936;Q9BZE3;Q9UK39;Q01860;Q8TF39;Q15543;P19532; Q05481;P16989;Q9UIH9;P11161;P22392;Q00482;Q8N5Y2;Q12962;P17544;Q8WYP5;Q6RFH8;O95238;Q 92769;Q9BXX3;O00716;Q9H4T2;P29374;O43711;P17032;O60248;Q02930;P49715;Q96G23;O60663;O1 4709;O15266;Q14934;B2RXF0;Q9NZI6;A6NFQ7;Q7RTV0;Q9Y473;O75469;Q9NPG3;P31269;P49848;P51 508;O75820;P27540;Q6ZNB6;P63272;Q66K89;Q9P2R6;P50549;A6NLW8;P17029;Q9BYE7;Q9Y5J3;P172 75;P15336;Q92750;Q6R2W3;Q96LW9;Q8NHW3;Q15697;P28702;P52743;P24278;P04198;Q9BYM8;O1497 8;Q9BQY4;O75360;Q9Y2X9;Q92759;Q9UFF9;P49910;Q86W11;O00570;P51786;Q14134;P31249;Q9UHL9 ;Q13351;P78424;Q9UBD0;Q9BYV9;Q96PT3;Q9Y603;Q8NAM6;Q9ULX9;O43365;O00287;Q9UI36;Q9UMQ3; P35638;O14593;Q16621;Q92754;P01106;Q6S9J6;Q9BTC8;O75444;Q9UH92;Q8NF99;P56693;Q16236;Q 9Y692;Q00444;O43541;Q00577;O95997;Q9Y3D2;Q9Y4X4;Q12800;Q7RTV3;P42224;P10588;P18850;P3 2243;Q86VE0;Q7Z6R9;Q9UIV1;P41212;O75081;P50548;Q8N5P1;Q8N1L9;Q04743;Q05195;Q07687;O14 770;Q14814;Q9GZW5;Q14872;Q8IUE0;P35227;Q8WVB7;P20749;Q9Y5W3;O15525;Q9UN79;P15407;Q064 55;Q00978;Q96IS3;O75376;O14529;Q63HK5;P78317;O75478;A6NNAS;Q96AV8;P41162;Q15562;Q9UKI 9;P15884;P78414;Q9NR55;P78545;Q8IV54;P41134;Q9BQ70;Q9HBB2;O14948;P62633;Q02386;P0CG00 ;Q9NQ87;Q13761;Q02556;Q03052;Q8NEA6;Q9NPC7;P10589;Q5EBL2;Q13469;Q9BUG6;Q99081;O14503; P17040;Q6IQ32;Q7Z353;P49116;Q13465;Q8N187;A0AVK6;Q8WYN3;Q9Y2L8;O75505;P05412;Q14929;Q 15466;Q12901;Q8WUU5;P13682;A6NJL1;O15499;Q8IZ40;P10242;Q9Y4A8;O14813;Q13127;O75030;P4 9716;Q06416;Q96IT1;P25490;Q16514;P49639;O95619;Q16534;Q9UBX2;Q53T94;Q9H4I2;P28360;P52 740;O15105;P78347;O14901;Q92988;Q8WYA1;Q9Y6X8;O00470;P52736;Q9UQ80;O94776;Q12857;P369 56;Q9ULV5;Q01094;Q86X95;Q9Y5B6;A6NFD8;A6NDR6;O60765;P15408;P61244;Q13951;O75971;Q0208 0;P01100;P78412;O95218;Q9NP71;Q14188;Q10586;P23769;P23511;P14316;O43593;Q9UKW6;Q15542 ;Q9UHF7;P41970;P49711;Q96N95;O60304;P50222;P17023;Q16520;P37275;Q07352;Q9UMS5;P17535; Q14587;P50221;Q9NSC2;P0CJ85;P10914;Q9UN30;Q13342;Q6NSW7;Q02446;P19419;Q9Y222;O00268;Q 8IUR6;P14651;Q9UKT9;Q14978;Q96GC6;Q96T58;Q9UJL9;Q96JS3;Q9UBG7;Q6VUC0;Q15545;O00712;P4 2771;Q9Y2G1;Q8N7R0;P17028;P23760;O94916;P22415;Q8WXI9;Q6NSZ9}

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Pathogen: {P03383} interacts with 452 human

partners: {Q9UQR1;P35227;Q06330;Q13761;Q15329;Q15723;P10244;Q68CJ9;O15198;Q8IX15;O0047 0;Q14978;P16989;Q9NY61;Q9UHL9;Q8NBB4;P10914;Q63HK3;P14316;Q15561;Q96S65;O15266;P11831 ;Q9UH92;P15036;P35712;P50549;Q02080;Q13485;Q96SZ4;P63272;Q14653;Q06455;Q04864;O00716; Q86WP2;P08047;Q9UPW6;Q9BTC8;Q14209;Q9GZW5;O75528;Q99607;P17096;O75478;Q9UKI9;P16220;P 27540;Q15562;Q9Y2P7;Q8N1L9;P28069;Q13469;P17544;Q8IUR6;P32243;Q9H9I0;Q9H4I2;Q00653;O6 0765;O60248;O94776;P49711;P17022;P15172;Q01194;P14921;O75376;Q8WVJ9;Q14526;P17029;Q0 687;Q9Y5Q3;P0CG00;Q9H4T2;O00287;Q96JS3;P19484;Q9Y5R5;P01106;Q86YP4;Q06547;Q13487;O952 51;P40424;Q12986;P78347;Q6NT76;Q13888;P49116;Q9P2R6;Q92670;Q9Y5B6;P23511;O75362;Q9UL4 9;P51815;P14859;Q9UKW6;Q9BRR0;O00570;Q9NP66;Q05481;P48382;O75360;P17482;Q9UMQ3;O95644 ;P18847;Q99576;P17861;P51508;Q8WYP5;O95218;Q01826;P20749;P19419;P52744;P48380;Q15714; Q96LL6;P23769;P50222;P22392;Q00059;P37275;Q10928;Q9NQ87;P31276;Q9UL58;Q9UMS5;O75030;Q 15542;Q6RFH8;O14709;O00712;P52630;P35638;O75461;O43365;P15923;Q3MJ62;Q9H2G9;P53805;Q1 6520;Q12901;Q9UK39;P35789;Q9UFF9;O14503;Q6P9G9;Q14814;Q01860;P78317;Q15797;P42226;Q9B YE7;Q96N95;Q03923;Q8WYN3;P18846;O43189;P28698;Q8N693;Q07352;Q86VE0;Q15306;Q9P0L1;Q009 78;Q13330;P51504;P15408;P78337;P59923;Q9H175;O00321;Q6NSZ9;Q9Y692;P06400;P18146;P4116 2;Q66K89;Q53G13;O15525;Q9NP71;Q6IQ32;P31249;Q14872;P55347;Q9Y2L8;P25208;Q9H0E9;Q96LW9 ;P20226;O14770;Q9UQR0;Q4G112;P08651;Q14934;O96004;O75529;P11473;O15105;P51610;P41161; P11474;Q03112;O14978;Q13952;Q01892;Q92985;Q14186;Q16621;P54845;Q9BQ70;P49639;P84022;P 98168;O75081;P11308;A6NGD5;Q9UID6;A6NJL1;Q12857;Q9UNY5;P35548;O14948;O75157;Q6VUC0;Q1 3105;P28324;O95125;Q13951;O14896;Q9ULV5;P28347;Q9GZU2;Q9BQA5;P17040;Q05195;P52742;Q13 568;P17032;Q99687;P17036;P24278;Q92769;P51825;Q13342;Q6ZN32;Q99717;O60663;P17676;P498 48;O60304;Q9Y2N7;Q6S9J6;O43711;Q99081;Q9NSC2;Q15466;Q16254;O43541;Q9UN79;P52743;P1540 7;Q8NF99;P28702;Q8N5A5;O75971;Q12837;Q12968;Q01201;P35711;Q15697;Q01543;Q9Y6X8;Q8IZ40 ;O00268;O15350;Q9UIV1;Q16514;P10074;Q00613;P10073;Q12800;Q7Z5D8;Q03936;Q9NPG3;Q92759; Q9P0W2;Q96IT1;P31269;P36402;Q8N5J4;O14593;P41212;Q16236;Q15170;Q969H0;P42771;Q96JN0;Q 96T58;P31314;Q13547;Q15853;Q14207;Q99583;Q9UHB7;Q9NZI6;Q16670;P10242;Q96GC6;O15535;O9 5238;Q14188;P62633;P01100;P04198;Q9UC06;P43268;P11161;Q9UQ80;Q8N0Y2;Q92750;Q92754;O43 186;P39880;P23760;Q9NZI7;Q15796;Q99594;O60925;P41970;O43309;P32519;Q00577;Q9HBT7;Q8NA P3;Q96AE4;Q9Y4A8;Q8IWY8;P51522;Q04206;Q7RTV3;Q10586;O95997;P49910;P17535;P78545;Q9NY4 3;Q8WXI9;Q02556;Q9Y222;P53567;Q9UKT9;O14771;P52736;Q12962;O60675;Q06ST3;Q9Y5A6;Q14258 ;Q6R2W3;P50221;P50548;Q8N7U7;P57086;Q9UC07;P51786;Q969J2;Q13148;P55197;Q9Y2X9;Q8N187; Q13033;P15336;P10828;P16383;Q99856;Q9NS37;P18848;P18850;O60481;P62508;O60869;Q86X95;O 95619;Q8N196;Q15776;P09629;Q02930;Q15545;Q9Y2D1;Q9UI36;Q15699;Q86W11;Q5SXM2;Q2QGD7;P1 7275;Q20265;O75444;P06733;P61244;P19838;Q96AV8;Q96QR8;P35869;P56693;P17028;P67809;Q9U BD0;Q16534;Q9Y603;P13056;Q9ULX9;P54198;Q9UHF7;O43439;Q06546;Q3C1V8;Q92988;Q03060;Q8IV 54;P19532;P17947;Q9UN30;Q59GR2;Q9Y473;A0AVK6;Q9BUG6;P40425;Q13363;Q92793;Q7RTV0;Q8TF3 9;Q02078;P14651;P13682;Q9UIS9;Q9Y468;Q13127;Q53T94;P22415;P52741;Q9BQY4;Q15543;Q9Y250

297 ;Q03938;Q03933;P05412;Q7KZ85}  
Pathogen[ P03410] interacts with 584 human  
partners: {P84022;Q9Y2P7;O75505;Q96LI6;Q99594;O14813;P57086;Q99743;Q00613;P20749;Q9Y5J  
3;Q9UHF7;P40426;Q04206;O14771;P28069;Q9BZI1;Q9Y2L8;O14901;P35712;P42771;O43309;Q9UI36  
;Q15714;P23409;O95619;P11831;O43439;Q9NS37;P0CJ87;Q96AV8;P19838;Q68CJ9;P36956;O75461;  
P51610;Q96PT3;Q9H2G9;O60675;Q03112;Q9UK39;O95218;P29374;Q13106;Q8N5J4;Q9UFF9;P35638;Q  
14526;Q9GZR2;O95238;Q59GR2;O00470;Q8TV54;Q8N7R0;Q8N7G0;Q15697;Q13889;Q8WYK2;Q14929;P1  
7482;P54198;P17861;Q15329;P17040;P37275;P13682;P41162;Q9H4T2;O00268;Q16520;Q3MJ62;Q8W  
VJ9;Q04864;Q8NA19;P52738;O14896;O96004;P31274;Q15543;P19419;P52740;P31276;Q14549;Q9P2  
R6;Q9UN79;Q66K89;P17676;P23511;Q96SZ4;Q9BYV9;O60806;Q9UMQ3;O94916;Q9H4I2;P18847;P0110  
6;P16989;O95251;Q92750;Q99814;P17947;P63272;Q12968;O95125;Q06330;O60481;Q06730;Q92670  
;O14948;O60682;Q01860;Q9UC06;Q15776;P54845;Q9Y6Q3;P10073;Q8IUE0;Q12962;Q9BQA5;Q9GZU2;  
Q9BYE7;P41212;P09629;Q14938;Q9NQ87;P18848;Q9UQ80;P36402;P50222;P50221;Q9Y2N7;O15266;Q  
9Y2D1;Q8WUU5;O75528;P14651;Q7KZ85;P10242;P53567;Q9UHL9;P35789;P14859;Q99717;Q8WXI9;Q1  
2800;Q8NF99;Q14814;P78545;Q9UL49;O75030;Q9UPG8;P15884;Q14653;O75444;Q14207;Q8NBB4;P28  
324;Q12857;Q5H9I0;Q16254;Q16236;Q3C1V8;Q2M1V0;Q9BZE3;Q14978;Q9BTC8;Q00059;P24278;P067  
33;Q9P0W2;Q9UMS5;Q4G112;O15198;Q8TF39;Q9NY61;P31249;Q9Y692;Q14765;Q9UIH9;Q96GC6;P1252  
5;Q6NSW7;Q9NPC7;O43830;P78414;P41134;P17096;Q96N95;Q9UBX2;Q6NSZ9;Q9Y3Q8;Q99687;Q9UL58  
;O14709;A6NFD8;Q03060;P0CJ85;P52741;P19532;Q9Y468;A6NJG6;A6NNA5;P20226;Q86YP4;O95948;  
Q86VE0;P10828;O00321;Q9H175;Q9UJL9;P06400;Q03923;P19484;O75376;P31314;P49716;Q06547;O  
95997;P32519;Q8N7U7;Q53GI3;O60304;P15923;Q06732;Q99607;Q03052;P0CJ90;Q9UIV1;Q9UPW6;Q9  
NPG3;Q9NWS9;P35227;P62508;Q86WP2;Q14188;Q96ST3;Q15306;Q13568;Q03933;Q14258;O00712;Q9U  
KW6;Q96T58;Q01201;P25490;P01100;P18846;Q00577;P61244;P17036;A6NFQ7;P15408;A8K0S8;O606  
63;Q96G23;P51508;Q9NP66;P17544;Q16670;P50549;Q5EBL2;Q9UQR1;P11473;Q02556;P51825;Q9HBZ  
2;Q9Y603;Q13148;Q14587;Q9BRR0;Q6ZNG2;A6NJ46;O95644;Q9BQY4;Q02930;Q6RFH8;Q9Y5Q3;P27540  
;O15535;P67809;Q99081;Q9UHB7;Q9BUG6;Q13127;P17022;O00716;Q9UKT9;O15525;P08651;Q9Y2X9;  
Q15583;P41161;P17029;Q92988;Q12986;Q07687;P35548;Q6R2W3;Q92793;P41223;P48382;P51814;Q  
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NEA6;Q9BWX5;Q13342;Q8N5A5;P17535;Q15170;Q6P9G9;Q8WYN3;Q9Y2G1;Q969H0;P17028;Q6SJJ96;A6N  
LW8;P53805;Q8NAP3;Q9UNY5;Q03924;B2RXF0;Q16514;P28347;Q9HA82;Q7Z357;P52743;Q9P0L1;P172  
75;Q12772;Q13330;Q16621;P49848;P52736;A6NGD5;P0CJ89;P25208;Q8N187;P25208;Q9BXX3;P51815;Q1487  
2;O75362;P78317;Q13033;Q15797;Q01826;Q9NP71;P43268;P31269;Q96S65;P48380;P22415;Q13485  
;P10914;Q9ULX9;Q99583;Q13952;P22736;Q14186;Q969J2;P28702;Q8N5P1;P16220;Q15466;P56693;  
Q7RTV3;Q9Y6X8;P17032;Q8WWB7;P47974;P78412;Q8N196;Q06455;O43364;Q13118;Q15699;P49910;P  
51786;Q13469;P41182;P0CG00;Q9HBT7;Q15853;P05412;Q8IUR6;Q86X95;O43541;P39880;P49639;P1  
0586;Q6XYB7;P49711;A6NDR6;Q9Y222;Q99576;P98168;O15105;P42226;Q7Z6R9;Q96JN0;Q8N1L9;Q9U  
KI9;Q6VUC0;P0CJ88;O75157;Q96IT1;Q13888;P55347;Q8IUE1;P32243;Q13951;P11474;P0CJ86;A6NJ  
L1;Q9UC07;O14593;P23769;Q13761;O43189;P52630;Q9UIS9;O75081;Q8NHW3;O94776;Q9HCS4;Q1354  
7;Q01094;P35680;O60869;Q7RTV0;P28698;Q0277L9;P49116;O00287;Q53T94;O14978;P59923;O60925  
;Q96IS3;Q13465;P10589;Q6ZNB6;Q10587;Q07Z8;Q15542;Q16534;O15350;P41970;Q2QGD7;Q9NZI6;  
Q9GZN2;O43812;Q9Y250;P08047;P50548;Q13487;O60248;P55197;P23760;O43711;Q99856;Q9UBD0;Q  
8IZ40;Q00653;Q8TBC5;Q9NQZ8;O75626;P12524;Q63HK3;Q06416;O75478;P78347;Q63HK5;Q8N693;Q9  
6LW9;Q9BQ70;Q9ULV5;P15407;Q12901;E9PGG2;Q9UH92;Q9Y4A8;Q13105;P14316;O75360;Q9UQR0;Q14  
209;Q9NIZ7;Q05529;Q15744;Q02080;Q92985;P20265;O60765;Q96QR8;Q12837;P11308;Q9NSC2;Q9NY  
43;Q9UID6;Q03936;P18146;Q8IX15;P62633;P52744;P51522;P17023;O75820;Q96FS3;Q9BT81;Q0548  
1;P16383;O14867;P40424;P78424;Q04743;Q9H0E9;Q15796;Q9UL36;Q5SXM2;P08235;P15336;P11161  
;Q15723;Q9NR55;O60422;Q15562;Q96PT4;Q8WYP5;Q8N5Y2;P40763;Q96AE4;Q9UKY1;Q9UN30;P18850;  
O75971;Q9Y5A6;Q6ZNS2;Q14934;Q9Y5B6;P04198;Q00978;O43365;P15976;O14770;Q07352;Q92759;P  
52742;P0C7M4;Q06546;Q9GZW5;A0AVK6;Q15545;Q7Z5D8;O43593;Q01543;Q86W11;P78337;Q92754;O6  
0284;Q05195;Q01892;P14921;Q8WYA1;Q9Y473;P51504;P13056;Q9UBG7;Q8IYW8;Q9N0Y2;O15499;Q03  
938;Q99966;O14529}

298 Pathogen[ P14075] interacts with 439 human  
partners: {P28069;Q8N196;Q00059;P52630;Q9UN30;P17029;P06733;Q96ST3;Q9NSC2;Q9UHL9;P3586  
9;O60663;P51815;Q96S65;P51825;Q96QR8;Q99607;Q12962;Q9H2G9;Q6RFH8;Q9Y5B6;Q86X95;Q9Y5A6  
;Q969J2;Q9H175;Q6ZN32;Q00613;Q9GZU2;Q92759;Q8N187;Q14207;P50548;Q13105;Q04206;P17482;  
Q9H4I2;Q9Y5R5;P78337;P40424;Q14526;Q13951;P16989;Q99687;O75030;O60248;Q9UQR1;Q8N5J4;Q  
96JS3;P05412;Q15542;P42226;P40425;Q12800;Q14938;P11474;Q9Y2D1;Q01543;Q9UQR0;Q9BQA5;P1  
4859;P11831;O60481;Q8N1L9;P10828;P78545;Q15697;P17861;O60765;Q8NBB4;Q15562;O00470;P28  
347;Q9UMS5;P53567;Q9GZW5;Q12901;P25208;P52736;O43541;Q96SZ4;Q01201;O75444;Q53T94;P172  
75;Q9Y4A8;P57086;O75362;Q06546;P43268;Q9P2R6;Q8WYP5;O75971;P23769;P61244;Q9UID6;P5992  
3;Q96T58;P19419;P41212;P18847;Q01860;P28698;Q9NY61;Q9Y468;Q9UBD0;Q03933;P48380;P51610  
;P62633;Q9HBT7;P35548;P11161;Q12837;Q15561;P15172;P17096;P17036;O14709;Q08050;Q15714;  
O43186;P18146;P19484;O60675;Q99576;O95619;Q16520;Q86VE0;Q9Y2N7;P42771;P20265;Q9UH92;Q  
7KZ85;Q9Y603;O94776;P10244;P35638;O95218;P31249;O00287;O95997;Q9Y250;Q02080;Q9ULX9;Q9  
6IT1;P78347;Q92988;Q5SXM2;Q99717;O00716;P56693;Q00978;P20226;P15336;P04198;Q9UL58;Q92  
754;Q9NIZ7;Q9BRR0;P10242;Q15796;Q96N95;Q9NQ87;Q03936;Q13148;P15923;P15408;Q53GI3;Q86W  
11;Q14209;Q13952;Q9BYE7;O43365;Q13547;Q99856;O00570;Q05195;P54198;Q6SJJ96;P13056;P0110  
6;Q92750;P39880;Q8WVJ9;P53805;O75081;Q07687;O14503;P17040;P31269;O75376;Q01826;P046112  
;Q16670;P27540;P55347;Q7RTV3;Q8N5A5;Q02556;P35711;P41162;O96004;Q13568;Q13485;Q09629;  
Q9NP71;P24278;Q14186;Q10586;P15036;Q15853;Q9BQ70;P49116;Q12857;O14770;O75478;Q8N7U7;Q  
9NY43;Q9ULV5;P28324;Q12986;Q9Y692;Q92670;P32519;O14948;Q14653;A6NGD5;Q9UPW6;Q06455;Q0  
6547;P54845;Q9UHB7;Q05481;Q9UNY5;O75528;Q9P0L1;P50221;Q13469;Q13889;O15350;P52742;Q16  
254;Q9UL49;Q8N693;Q92769;Q01892;Q9Y5Q3;P49848;P35712;Q9UIS9;P51504;P52744;Q9UN79;Q8NA  
P3;Q9UHF7;O43189;Q15723;Q14934;Q9UKT9;P0CG00;O15198;P11473;Q99594;Q9Y6X8;P48382;Q9UK3  
9;Q15306;P17947;P11308;Q16514;O95251;Q6R2W3;P67809;Q8IX15;Q15545;P23511;P55197;P78317  
;P18848;O75360;O43711;Q9UMQ3;Q01094;O14978;Q14258;Q13487;P08651;O15105;P14921;P36402;

Q9Y2L8;P06400;Q07352;O14593;Q6IQ32;Q96AV8;Q03112;Q02078;Q9NP66;P52743;P17028;P14316;P50549;O14896;Q06330;Q3C1V8;Q9UQ80;Q9NZI6;Q66K89;Q68CJ9;P98168;Q8N9F9;P01100;Q14134;O0268;O15525;Q9Y222;Q9Y2X9;Q9UFF9;Q13342;Q13330;P49711;Q96LW9;Q00577;O00712;Q92793;Q96LI6;P28702;P15884;O60925;Q9UKW6;Q9UI36;P16383;Q15699;Q6P9G9;Q13127;P31314;Q3MJ62;Q9Y2P7;Q8TF39;P43439;P31276;Q15466;P19838;Q03060;Q96GC6;P10074;Q9Y3Q8;P35789;O15266;Q00653;O60304;P17022;Q13363;Q9UKI9;Q9Y473;Q03923;P41970;Q15329;O75529;O95125;P22415;Q86WP2;Q92985;P84022;P15407;Q16621;P23760;O43309;Q99583;P17676;P37275;Q16236;O60869;Q96JN0;P10914;Q9UIV1;P17544;Q99081;Q2QGD7;P17535;Q14188;Q969H0;P49910;Q13033;Q96AE4;P32243;Q8N0Y2;Q8WXI9;Q63HK3;Q8WYN3;Q8IUR6;Q14814;Q9NS37;O75461;P63272;Q12968;Q15170;P19532;Q6NT76;Q14872;Q7Z5D8;Q15776;A0AVK6;Q02930;P10073;P62508;Q9BTC8;P22392;Q14978;P50222;Q9P0W2;Q8IWX8;Q8IZ40;O95644;Q9BQY4;P35227;Q6VUC0;P20749;Q86YP4;P18846;O75157;Q04864;O00321;P18850;Q5H9I0;O14771;Q9BUG6;Q15543;P52741;Q9UC07;Q13761;Q16534;Q03938;Q9NPG3;Q7RTV0;Q13888;P08047}

299 Pathogen[ P0C206] interacts with 678 human partners: {Q9UID6;Q02386;P06733;P28698;Q9Y468;Q15723;Q13887;P84022;Q86W11;Q9UFF9;Q9Y2X9;P53567;Q07687;P10588;O43541;P0CJ87;Q53T94;P67809;Q9NQ87;Q14188;Q8IX15;P10914;Q92769;Q8WYP5;P78424;Q9GZW5;Q16649;O43309;Q03060;Q9UN30;A6NDR6;P98168;Q8IUR6;O75528;Q14587;P53805;Q7Z353;Q15270;Q05195;P16383;Q15329;O60481;Q8N187;Q00444;P0CJ90;Q9Y2D1;Q63HK3;Q9UHL9;Q15466;Q96G23;Q13568;Q96MM3;P35398;Q06546;Q96ST3;Q03924;Q15545;Q8NA19;O43711;Q9BUG6;Q96S65;P31269;P31314;Q16514;P06401;Q06455;Q9GZU2;O95251;O14867;O60393;Q01538;Q06330;Q13469;Q9UMS5;Q9NP71;P40425;Q9UH92;Q15543;Q9Y6Q3;Q13127;P13682;P49848;Q9Y5Q3;P14921;Q05481;Q15911;Q9NY43;Q06416;Q9Y4A8;Q9Y242;Q9NR55;Q9UC06;Q02078;O15266;A6NNA5;Q13263;P52741;Q9Y2N7;A6NGD5;Q9H4I2;Q8WUU5;P15407;P20226;P12525;P11161;O43365;Q04743;P16220;P17275;Q9Y5R6;O14948;P09067;Q9UN79;P10074;P35869;P17544;O75030;Q15744;P22392;P25490;Q02446;P08651;O75444;Q9UJL9;P18850;P49910;Q8N7R0;Q96N95;O43812;Q14258;P41212;Q9NSC2;P48382;Q9UC07;Q05066;Q15697;P78414;Q96AV8;Q01860;Q9Y4Z2;P41182;P52743;P54821;Q9UIV1;P49639;Q99583;P14317;Q9UQR0;Q9NQZ8;Q9NR83;O14529;Q00613;O00470;Q9UBX2;Q02548;O75469;Q6ZN32;P59923;Q15170;O75081;Q8WXI9;P29374;Q96QR8;Q9UL58;O95997;Q9UHB7;Q03933;Q99717;Q9UMQ3;P05412;O43670;Q9H4T2;O00268;P78411;Q9C0J9;P19419;P50221;Q13951;P54198;Q9UL49;Q8WYK2;P10242;P14651;Q92988;Q8N196;O15499;P10073;P23409;A6NFD8;Q9UBC0;P15336;P0CJ86;Q969H0;Q12901;Q969J2;P52738;Q8N7G0;O75157;Q9UIH9;P55055;P51508;P57086;Q92670;O60765;P43268;Q15306;O75626;P42771;Q13342;P51522;P17535;Q13547;Q8N0Y2;Q14186;P13056;P17023;P49715;Q03936;Q94776;P31268;P36956;P17483;Q9HCS4;P19484;Q7RTV3;P12524;P41970;Q86VE0;Q9Y3Q8;Q12968;P56693;Q6R2W3;P18846;P48380;P0CJ89;O14770;Q86YP4;O15525;P54845;O00716;Q6ZNB6;Q13330;P15976;Q01201;O75529;P49116;P22736;Q9NZI6;P19532;Q10587;P41223;P78317;Q15699;O00321;Q15796;O95238;Q13487;Q9Y603;Q96IS3;Q9BQA5;Q3MJ62;Q8IV54;Q8WVJ9;O00482;O95125;Q96HZ4;Q9Y6X8;P52740;Q9P2Y4;Q14938;Q16254;O60284;P40424;Q969G2;P0CJ85;P11308;Q9P2R6;P18146;P62633;O75360;O75971;Q8NEA6;Q6VUC0;O96004;Q9HBT7;Q92793;Q7Z6R9;P14653;P17861;A6NJL1;P10589;Q9BT81;Q92754;Q06730;Q9BZE3;Q6NSZ9;Q9BWX5;Q63HK5;Q12857;Q9NPC7;P32519;P17022;Q9Y5B6;O60248;Q15853;P17029;P41134;Q02556;Q12837;P14652;O60304;O14593;Q05215;O00570;Q5SXM2;Q16670;A8MZ59;Q9GZN2;P23511;Q9NPG3;Q8IZ40;O15105;Q9NWS9;O00327;Q9BYV9;Q9BYE7;Q13952;O95718;P78337;P51825;Q6ZNG2;O43248;O60682;P49640;Q14209;P41162;Q92750;Q8NF99;Q02080;P78347;P19838;Q99743;Q9H4S2;Q8WWTB7;O60925;Q99581;Q14919;Q99612;O15516;Q86X95;P10828;P22415;P62508;P10244;P35711;Q9ULV5;P40426;Q13888;Q03112;P09086;O00712;Q9P0W2;Q99081;P22681;Q68G74;Q9UIS9;Q9HA82;Q6XYB7;P16989;A6NFB7;P50549;Q9UNY5;O95619;P32243;P17676;P78413;Q86WP2;A6NJ46;O14813;Q9BXX3;P52742;P08047;Q9NP66;P17482;P24278;Q9Y5J3;Q96JN0;Q12986;P51610;A6NJG6;Q9UHF7;Q9H175;Q92985;Q6RFH8;Q6IQ32;Q8N5P1;P17032;P35680;Q96T88;P49711;P35548;P01100;Q8N7U7;Q9H2C1;Q04206;O75505;Q9Y5R5;Q9UPW6;Q9Y2L8;Q9Y3D2;Q9UKI9;Q7K285;P0CJ88;Q9P0L1;P52744;P15923;Q01094;Q9UQR1;A0AVK6;P15884;Q9Y692;P20823;O94916;P28347;P53539;Q9NS37;Q8TBC5;Q06547;Q8N693;Q3C1V8;Q92759;P35789;P28324;Q03052;P04198;Q96IT1;O14771;Q7RTV0;Q9Y4X4;P78545;P17947;Q02930;Q16534;P17028;Q96GC6;Q8NHW3;A6NLW8;Q04864;Q8N1L9;Q6P9G9;Q9Y222;Q15562;O75376;Q9BQY4;Q06732;O75478;P15036;Q14872;O14896;P40763;Q13485;Q9BZI1;P25208;Q9Y5A6;P61244;Q8IWX8;Q9NRJ4;P0C7M4;Q8N5J4;P23760;O15535;Q8TF39;Q8WYA1;O14709;Q13148;Q96T58;O60869;Q15542;Q14934;P17096;Q13562;E9PGG2;P23769;Q9H2G9;Q03923;Q9Y2P7;P11831;Q08050;Q00978;Q59GR2;Q7Z7L9;O60315;Q16520;Q15797;Q13422;Q99666;Q9NZI6;Q6NSW7;P51786;O95218;P20749;P18847;Q9UL36;Q4G112;Q6S9J6;Q13889;Q9BRR0;Q9UK39;Q96JS3;P49716;P42226;Q7Z5D8;Q9UKW6;O75362;Q00653;P28702;P37275;Q8IYM9;P35712;Q16236;P20265;P31271;O15350;Q16621;Q9UPG8;Q01826;Q99687;Q13465;Q5H9I0;Q96LW9;O00287;O14901;P27540;Q14863;Q2QGD7;P15172;P17040;Q9UKT9;Q9H9S0;Q53GI3;O43364;Q14134;Q5EBL2;Q14814;P31274;Q14765;Q9UBR4;P51814;O60663;P11474;P51815;Q12962;P01106;Q96AE4;Q07352;Q9UQ80;Q96LI6;Q99594;Q9NZC4;Q8NBB4;Q99814;P39880;O15198;P09629;O95644;Q14549;Q9H2P0;Q13033;P61968;O43439;Q14526;P28356;P28069;Q13106;Q9Y473;Q13363;Q96SZ4;Q9GZR2;P20719;Q13118;Q8TAU0;Q9BYM8;O60675;Q15776;Q66K89;Q96PT4;Q00059;Q13105;P41161;P0CG00;A8K0S8;P31249;P42224;P52736;P05048;Q6VB84;Q9UBX0;Q99576;O43593;P55197;Q9NY61;O43189;Q9UI36;Q6NT76;O75461;P09216;Q01892;P78412;Q075820;P36402;Q14929;P18848;Q0V9G9;Q9NRM2;Q8IUE0;Q8N5A5;O60422;Q9UBD0;Q9UBG7;Q15714;O60806;O43763;Q8N5Y2;P14316;Q01543;Q9Y250;Q2M1V0;P15408;Q99607;P11473;Q8NAP3;Q13761;Q12772;Q8WYN3;P47974;P52630;O14978;Q12800;P08235;Q9H0E9;O43316;P51504;Q99856;P08304;Q9BQ70;P35638;Q9NP62;Q15561;Q14207;P31260;P10827;Q9HBZ2;P14859;P56177;Q8IUE1;Q10586;Q9ULX9;P63272;Q68CJ9;Q14978;Q15583;Q9UKY1;P17036;Q9BTC8;P48443;Q01954;P31276;P35227;Q14653;Q96PT3;P06400;Q00577;Q03938;P55347;O43830;Q9Y651;O95948;P50222}

300 Pathogen[ P03363] interacts with 716 human partners: {Q86X95;Q92886;Q16236;P22681;P56179;Q86VE0;Q15911;Q9Y5A6;Q9P0L1;Q14653;Q14978;Q9NR55;Q15699;P52630;O95619;Q9UBC0;P13682;Q6S9J6;O75820;O15266;Q06547;P31273;O43812;Q03923;Q06455;P17535;P35789;O14901;P98168;Q9GZN2;P18848;Q9UIW0;O75461;Q13105;P35453;O75081;Q8NFW5;P49716;Q16649;Q14765;Q8N5Y2;Q99592;P10828;Q969J2;Q9Y4Z2;Q9Y5B6;Q9UHF7;P29374;Q9UHL9;P28698;Q92985;Q9NQZ8;O95948;Q59GR2;P19622;Q96T58;Q03924;P47902;Q96S65;P3

5711;Q13487;Q9NZR4;P54198;Q14929;Q9UH92;P78415;Q6XYB7;P0CJ87;P0CJ88;Q9BYU1;P09067;P12525;Q14938;P41223;Q15466;O75360;Q9Y5J3;O14978;Q86W11;P31274;Q8NAP3;O14529;Q04206;Q15853;O14771;O14896;P27540;P49848;P17676;P52738;Q6NSZ9;Q12901;O60481;P18146;Q5JUK2;P49116;O00712;P0CJ86;Q9UBX2;Q02386;Q13148;Q96JS3;O60315;Q02930;Q9UHB7;Q99576;Q86UP3;Q9Y468;Q9H175;P35227;Q7Z353;Q99626;P53567;P48382;Q9C0A1;Q14526;Q9UMS5;Q8N7R0;Q9UN79;Q9BYV9;Q13516;P56177;Q3C1V8;P36402;Q9UC06;P78424;P12524;Q86YP4;Q9BRR0;Q8IUE1;P78412;P53539;Q99742;P31267;Q14863;O43365;P62633;P08651;Q8N187;Q06546;Q15562;A8MTQ0;Q13952;Q0VG99;Q02556;Q03933;Q8WYP5;O60422;Q9UKW6;Q96LI6;P62508;P14651;Q15744;Q5EBL2;P0CG00;Q03112;Q13888;O60663;Q9NS37;Q14258;Q8N7U7;Q9BWW7;P18847;Q99929;Q15170;Q10586;O43763;P37275;Q06330;P0CJ89;Q9Y4A8;Q92759;P28356;P23760;Q9NQ87;P09086;Q9H2P0;P17947;Q7RTV3;Q01892;P78413;Q9GZR2;Q99856;Q16514;P20719;P28347;P31271;P06733;Q8NHW3;O43439;P04198;P18850;Q9H2W2;P25490;Q01826;P53805;Q96HZ4;Q9UKI9;O60765;P17481;Q9Y6X8;Q7RTV0;O75376;Q16520;Q01543;Q8NBB4;Q15545;O60902;Q9UC07;Q99607;Q9C0J9;Q13568;P78317;Q15776;Q16254;P11474;P16220;A6NGD5;Q9Y2L8;Q9Y2D1;P78414;Q8N196;Q9NPG3;Q13033;Q13342;Q5JT82;O43316;Q16621;P58304;Q99612;Q02080;Q8IV54;Q66K89;Q96QR8;P19419;P14921;P35548;Q9HBZ2;O00268;P50548;Q96IS3;O14593;Q9Y467;Q9Y603;O15105;Q15306;Q8IWX8;P78411;Q96JN0;Q96GC6;Q6NT76;Q15797;P32243;Q9NFC7;O14867;O14948;O60479;O95231;P51522;O43309;Q8N693;Q9HCS4;P43268;P55347;P17028;O43248;Q8NEA6;E9PGG2;Q9Y2X9;P49639;Q5H9I0;P59923;Q96MM3;Q9NWS9;Q9Y5R6;P06400;P57086;Q9BUG6;P17483;P01106;Q9Y4X4;Q8N1L9;Q9UQ80;Q9H4S2;Q99743;A8K0S8;O00409;Q12986;Q8WYK2;Q9UNY5;A6NDR6;Q9GZW5;O43189;P0CJ90;P35869;P17275;P42226;P17509;P31249;Q99729;P49711;Q8TBC5;P54845;Q9UK39;P61244;O00321;Q7KZ85;Q9UN30;P14653;P50221;P10588;Q13127;Q96PT4;Q9BZE3;P11473;P40425;P17029;Q9Y3Q8;Q12800;P51786;Q12962;O75157;Q03936;O43524;P15923;P15336;Q9UD57;Q13951;P17023;P20749;O15499;P32519;Q07352;O43593;Q2M1V0;Q05066;Q8N7G0;Q8WXI9;O43830;Q9BTC8;O75529;O95218;Q08050;Q96LW9;P13378;P0CJ85;P11831;Q8WYN3;Q8TF39;Q9NY61;Q14872;P56693;P28702;O60925;Q9BYP8;P20264;P28069;Q9UI36;Q9H4T2;P14859;P28358;Q53T94;Q6ZNG2;Q00444;P56915;Q8N5P1;Q00653;Q96AE4;P11308;Q9UPG8;A8MZ59;Q8IX15;O95238;Q9GZU2;Q9GZU0;O75030;Q96KN3;P08235;P51504;Q9Y250;Q6ZN32;P24278;Q9HBT7;Q14814;A6NJT0;Q9NZC4;Q6VB84;P78545;Q86WP2;Q14549;Q9NZI6;P17032;P17096;Q9BXX1;P14316;P32242;P18846;Q01094;Q8WYA1;Q9Y5R5;O75444;P14652;O14709;O75505;Q9NP08;O00327;O43186;P51814;O15525;P31260;Q14134;Q16670;P52736;A6NMT0;Q96ST3;Q06416;O43541;Q9Y6Q3;P17022;Q8N5A5;P17036;Q63HK3;P17861;Q4G112;Q14919;Q9Y2N7;P41134;Q9BQA5;P52744;Q8IZ40;P20265;Q15796;Q15723;P31268;Q15270;P84022;A0AVK6;Q01167;P31314;Q8N5J4;Q7Z6R9;P41161;Q68CJ9;O94916;Q9NZI7;Q9UKY1;P10244;O96004;Q9HZ24;Q00056;P35638;Q15542;Q969H0;P10914;Q92826;Q96IT1;O00470;Q05925;Q15583;Q06732;P35398;Q14209;Q5XKR4;Q00059;P50549;P15407;P51508;P22415;O00287;A6NFQ7;P54821;Q13547;P23759;Q92750;Q9HB31;P19838;Q99814;Q6NSW7;Q6RFH8;Q96SZ4;P09016;Q9Y692;Q92793;O75971;P1954;Q15697;P31276;P14317;O95125;P50222;O60869;Q13469;P52740;Q92988;Q8IWI9;Q9BWX5;Q14587;Q01201;P35712;Q9H2G9;O60393;Q9UQR0;O60682;O43711;Q9Y651;Q00978;P10242;P20226;P49910;O75362;Q92670;Q9UL58;Q13485;Q8NA19;O95076;P10074;Q12968;Q05195;Q9ULV5;P17482;P52951;P49335;Q9UIV1;O60806;P23409;P63272;P78367;O00570;Q14186;P31269;Q63HK5;P19484;Q9UQR1;Q2QGD7;Q99687;Q9C056;Q14188;P15884;P41162;O95644;Q96T88;A6NLW8;Q8IUR6;Q9BQY4;Q15714;Q9BZ11;Q96QS3;Q8IUE0;P05412;Q6IQ32;P40424;Q96AV8;Q96G23;O60304;Q04741;A2RU54;Q00613;Q9UKT9;Q53GI3;Q5SXM2;O60675;Q14934;P0C7M4;Q99581;Q04864;P19532;P47974;O95997;P09629;P16989;Q9UFF9;P55197;P40426;Q96N95;P35452;Q13330;Q9NP71;Q9NRF4;O95343;Q02548;Q8IYA7;P52741;P41970;Q14207;Q13363;O75478;P16383;P52743;Q9UBG7;O43364;Q03828;P08047;O60248;Q9UMQ3;Q96PT3;Q99081;Q9NY43;Q8TAU0;P48380;O75626;O00716;Q13761;P52742;O60284;O95475;Q15543;Q9UL36;P17544;Q9P2R6;Q00577;P09630;P17040;Q99811;Q05481;Q9P0W2;Q8NHV9;Q16534;P41212;P09017;Q9UJU5;O15522;P39880;Q9H9S0;Q9ULX9;Q07687;Q9UIH9;Q9BT81;A6NJG6;O95251;P78337;P51815;P15172;Q9UID6;Q3MJ62;Q12837;A6NJL1;Q15561;P50219;Q13106;Q99717;Q6P9G9;P25208;Q6R2W3;Q9UPW6;Q12857;Q9BXX3;Q9UBD0;Q8N653;Q9H4I2;P151825;Q9NP66;P10589;P15408;O15198;Q9Y473;P13056;Q99594;Q15329;Q9H0E9;Q9UL49;Q99583;Q3KNW1;Q9NPC8;P78347;Q9Y5Q3;Q8WVJ9;A6NNA5;Q05215;Q9BYE7;P15036;Q01860;Q9P2Y4;P31275;O14813;P42771;Q03060;Q9UJL9;O14627;Q9BQ70;Q06730;Q03052;Q02446;O14503;Q10587;O75528;Q9HBU1;Q13465;A6NJ46;Q9Y222;P10073;Q8NF99;Q7Z5D8;Q04743;P51610;P67809;O94776;Q9NR83;O15535;P28324;Q13118;P23511;Q8WUU5;Q8N0Y2;Q92754;A6NFD8;Q9UIS9;Q15319;Q6VUC0;P01100;Q9UBX0;Q03938;P49640;P11161;Q9Y2P7;O00482;Q02078}

- 301 [Cluster 28]GO:0031418+F molecular\_function [name] L-ascorbic acid binding [def]  
"Interacting selectively and non-covalently with L-ascorbic acid,  
(2R)-2-[(1S)-1,2-dihydroxyethyl]-4-hydroxy-5-oxo-2,5-dihydrofuran-3-olate\_ L-ascorbic  
acid is vitamin C and has co-factor and anti-oxidant activities in many species." [CHEBI
- 302 Pathogen[ Q2Q067] interacts with 4 human partners:{Q96Q83;Q96KS0;Q9H6Z9;Q9GZT9}
- 303 Pathogen[ P0C214] interacts with 6 human  
partners:{Q9NVH6;Q96KS0;Q9H6Z9;O14832;Q9GZT9;Q96Q83}
- 304 Pathogen[ P03346] interacts with 4 human partners:{Q9GZT9;Q96Q83;Q96KS0;Q9H6Z9}
- 305 Pathogen[ Q85601] interacts with 4 human partners:{Q9H6Z9;Q9GZT9;Q96KS0;Q96Q83}
- 306 Pathogen[ P14079] interacts with 7 human  
partners:{Q9GZT9;Q8IVL6;Q9NVH6;O14832;Q9H6Z9;Q96Q83;Q96KS0}
- 307 Pathogen[ P03383] interacts with 3 human partners:{Q96KS0;Q9H6Z9;Q96Q83}
- 308 Pathogen[ P03410] interacts with 6 human  
partners:{Q9NVH6;Q96KS0;Q9H6Z9;Q96Q83;Q9GZT9;O14832}
- 309 Pathogen[ P14075] interacts with 6 human  
partners:{Q9NVH6;Q96KS0;Q9GZT9;Q96Q83;O14832;Q9H6Z9}
- 310 Pathogen[ P0C206] interacts with 6 human  
partners:{Q96Q83;Q96KS0;Q9GZT9;O14832;Q9NVH6;Q9H6Z9}
- 311 Pathogen[ P03363] interacts with 2 human partners:{Q9H6Z9;Q96Q83}
- 312 [Cluster 29]GO:0008092+F molecular\_function [name] cytoskeletal protein binding [def]  
"Interacting selectively and non-covalently with any protein component of any

cytoskeleton (actin, microtubule, or intermediate filament cytoskeleton)." [GOC

313 Pathogen[ Q2Q067] interacts with 15 human  
partners:{Q9Y2J2;Q14315;P05062;Q8IZP0;P02511;P05413;Q9NZQ3;Q12959;P11171;P09972;Q86TC9;Q96FJ2;Q9BX66;Q9NUP9;P17661}

314 Pathogen[ P0C214] interacts with 13 human  
partners:{Q8IZP0;P02511;Q9BX66;P05413;P05062;Q14315;Q86TC9;Q12959;P09972;Q9NZQ3;Q96FJ2;P11171;P17661}

315 Pathogen[ P03346] interacts with 22 human  
partners:{Q86TC9;P09972;Q96FJ2;Q14315;O75112;Q9HCS5;P05413;Q9UKS6;Q8IZP0;Q9H329;Q9BX66;P26038;P11171;O76041;P17661;P02511;Q9NUP9;Q9NZQ3;O43491;Q9Y2J2;P05062;Q12959}

316 Pathogen[ Q85601] interacts with 15 human  
partners:{Q86TC9;Q9Y2J2;Q9NUP9;O75112;P05413;P17661;Q9BX66;P11171;Q9NZQ3;P05062;P02511;P09972;Q14315;Q12959;Q8IZP0}

317 Pathogen[ P14079] interacts with 18 human  
partners:{O75112;Q9Y2J2;P11171;Q96FJ2;Q9UKS6;P02511;P26038;P09972;Q8IZP0;P05413;Q86TC9;Q9NUP9;Q14315;Q9NZQ3;O76041;P17661;Q9BX66;P35241}

318 Pathogen[ P03383] interacts with 5 human  
partners:{P17661;Q96FJ2;P02511;P09972;Q9NZQ3}

319 Pathogen[ P03410] interacts with 21 human  
partners:{P17661;Q9H329;P05413;O76041;Q12959;Q9NZQ3;Q9NUP9;P05062;P11171;P09972;Q14315;Q9UKS6;P26038;O43491;Q9Y2J2;P02511;Q8IZP0;O75112;P35241;Q86TC9;Q9BX66}

320 Pathogen[ P14075] interacts with 7 human  
partners:{Q9NZQ3;Q9Y2J2;P17661;Q96FJ2;P02511;P09972;P11171}

321 Pathogen[ P0C206] interacts with 18 human  
partners:{Q9NUP9;P05062;P17661;Q86TC9;Q14315;P05413;O76041;Q8IZP0;O75112;O43491;Q9BX66;P09972;P02511;Q12959;Q9Y2J2;Q9UKS6;Q9NZQ3;P11171}

322 Pathogen[ P03363] interacts with 19 human  
partners:{Q12959;Q86TC9;Q8IZP0;Q9BX66;O75112;P09972;Q9HCS5;P17661;P11171;P05413;Q9UKS6;O43491;Q9NZQ3;O76041;Q9NUP9;Q9H329;Q96FJ2;Q9Y2J2;Q14315}

323 [Cluster 30]GO:0004386+F molecular\_function [name] helicase activity [def]  
"Catalysis of the reaction

324 Pathogen[ Q2Q067] interacts with 37 human  
partners:{Q92900;P51531;P38919;O00148;Q6ZRS2;Q13838;P38935;Q14240;P26196;Q9UHI6;Q9BYK8;Q8N3C0;Q08211;P51532;Q9H4L7;Q12873;P46100;Q03468;P13984;P12956;Q3L8U1;Q92499;Q9HCE1;Q14839;Q9UNY4;O14646;Q9BYX4;Q9ULG1;P25205;Q9HCK8;Q86WJ1;P13010;Q9HBD4;P28370;Q92841;Q8IYD8;P60842}

325 Pathogen[ P0C214] interacts with 47 human  
partners:{Q14527;P26196;O00148;P60842;P13010;Q12873;Q92900;Q92841;Q9H0S4;Q9HBD4;Q6ZRS2;Q3L8U1;Q7L2E3;Q9ULG1;Q9BYX4;Q9H4L7;P38935;Q9HCE1;P25205;Q9BYK8;Q8N3C0;Q14566;Q92698;P28370;P46100;P38919;Q9UNY4;Q9NVP1;Q14240;Q9HCK8;O60264;Q9UHI6;P13984;Q92499;Q14240;Q9NUU7;Q9UMR2;Q08211;O14646;P51531;Q13838;Q8IYD8;Q86WJ1;Q03468;P12956;Q14839;P51532}

326 Pathogen[ P03346] interacts with 60 human  
partners:{P46063;Q9NRZ9;P38935;Q9HBD4;P12956;P46100;P51532;Q9UMR2;Q92841;Q14527;Q9ULG1;Q8TD26;P13010;P38919;Q7L2E3;Q9NVP1;O14646;Q08211;Q92698;P60842;Q9BUQ8;Q8N3C0;Q9H2U1;Q7333;Q14566;P25205;Q92499;P13984;Q14240;Q9HCK8;O60264;Q9UHI6;P13984;Q92499;Q14240;Q13838;Q9UNY4;Q6ZRS2;P42285;Q9BYX4;Q14562;P33991;Q9NUU7;Q9H0S4;P26196;Q8IYD8;P28370;Q12873;Q9P2D1;Q9BYK8;O00148;Q13283;P51531;Q3L8U1;Q86WJ1;Q9HCE1;Q92900;Q86XP3;Q14839;Q9H4L7}

327 Pathogen[ Q85601] interacts with 50 human  
partners:{Q9HCE1;Q9H0S4;Q8IYD8;Q3L8U1;Q9P2D1;Q14240;P38935;O00148;Q9UMR2;Q7L2E3;O14646;Q92499;Q92698;Q08211;P38919;P51531;Q14566;Q03468;P51532;P13984;P25205;Q13838;Q9NVP1;Q12873;Q9UHI6;Q9H4L7;Q9NUU7;Q9BYX4;Q6ZRS2;Q9BYK8;P60842;Q9ULG1;Q9HBD4;P26196;Q9HCK8;P28370;Q86WJ1;Q8TD26;P33992;O60264;P19447;Q14527;Q92900;Q9UNY4;P46100;Q14839;P13010;P12956;Q8N3C0;Q9H2U1}

328 Pathogen[ P14079] interacts with 45 human  
partners:{Q9H0S4;P60842;Q9ULG1;Q9BYK8;Q9BYX4;Q14566;Q8IYD8;P13010;Q9UNY4;Q9HCE1;P28370;Q7L2E3;Q9H4L7;P51532;O14646;Q92698;P51531;Q13838;Q6ZRS2;Q9UHI6;Q14240;Q08211;Q12873;P46100;Q9P2D1;Q8TD26;P12956;P26196;Q86WJ1;O00148;Q9HCK8;O60264;P33992;Q14839;P13984;Q92900;Q92499;Q96FC9;Q03468;P38935;Q9NVP1;P25205;Q96C10;P19447;Q3L8U1}

329 Pathogen[ P03383] interacts with 28 human  
partners:{Q14839;Q9HBD4;P13010;Q9H0S4;Q13838;P25205;P28370;Q92841;Q9UHI6;P38919;O14646;P26196;P46100;Q12873;P13984;Q03468;P51531;Q3L8U1;Q9HCK8;P51532;P38935;Q92499;Q9HCE1;Q92900;Q9BYK8;Q9UNY4;P12956;O00148}

330 Pathogen[ P03410] interacts with 50 human  
partners:{Q13838;P25205;Q12873;Q9UNY4;Q9H4L7;Q8N3C0;Q92698;Q8IYD8;Q92900;Q9NVP1;Q9BYK8;O14646;Q9BYX4;Q9ULG1;O00148;Q9H0S4;Q03468;P33992;Q9UMR2;P12956;Q6ZRS2;P38935;Q9NUU7;Q9P2D1;Q92499;Q9HCE1;P19447;Q7L2E3;Q9HCK8;P46100;P60842;P51532;P38919;Q86WJ1;P51531;Q3L8U1;Q96C10;P13010;P13984;Q96FC9;Q8TD26;O60264;Q9HBD4;Q14566;Q14839;Q9UHI6;Q08211;P28370;Q14240;Q9H2U1}

331 Pathogen[ P14075] interacts with 28 human  
partners:{Q3L8U1;O14646;P13984;Q92900;P12956;Q9HBD4;P51532;Q9H0S4;Q9UNY4;P26196;P38935;Q14839;Q9HCE1;Q03468;Q92499;P46100;Q9UHI6;P25205;Q9HCK8;P51531;P28370;Q92841;P13010;P38919;Q13838;Q12873;Q9BYK8;O00148}

332 Pathogen[ P0C206] interacts with 56 human  
partners:{Q9H0S4;Q9H4L7;O00148;Q9HCK8;P13010;P38935;Q8TD26;Q9NUU7;P51532;Q9UNY4;P25205;P51531;Q08211;Q8IYD8;Q9P2D1;P46100;P26196;Q03468;Q6ZRS2;O94762;P13984;P19447;Q9HCE1



;Q14839;Q9BYK8;O14646;Q7Z333;Q13838;Q9ULG1;Q9NVP1;Q92841;Q14240;P28370;Q14527;Q86WJ1;Q92900;Q9H2U1;Q9NRZ9;Q9HBD4;Q9UHI6;Q9UMR2;Q9BYX4;P38919;Q96C10;P60842;Q92499;P12956;Q14566;Q7L2E3;Q9BX63;Q8N3C0;Q92698;P33992;Q12873;O60264;Q3L8U1}

333 Pathogen[ P03363] interacts with 62 human partners: {P12956;O94762;Q9BX63;Q3L8U1;Q7Z333;P38919;O75643;Q8IY21;Q9ULG1;P13984;Q92900;Q9UHI6;Q9H4L7;P13010;P25205;Q13283;Q6ZRS2;P51532;Q9NUU7;Q14839;Q92620;Q9H0S4;Q9UNY4;P33992;P46100;O60264;Q14562;Q9HCK8;Q9NUL7;Q92841;Q14240;P46063;Q14527;O00148;Q9HCE1;Q9HBD4;Q8IYD8;Q92499;P26196;Q13838;Q9BYK8;O14646;Q9UMR2;P60842;Q86XP3;Q03468;Q8TD26;Q9BYX4;Q12873;P28370;Q7L2E3;Q9NVP1;Q9H2U1;P51531;Q86WJ1;Q08211;Q9H6S0;Q5T890;P38935;Q92698;Q8N3C0;P42285}

334 [Cluster 31]GO:0016929+F molecular\_function [name] SUMO-specific protease activity [def] "Catalysis of the hydrolysis of SUMO, a small ubiquitin-related modifier, from previously sumoylated substrates." [GOC

335 Pathogen[ Q2Q067] interacts with 2 human partners: {Q9GZR1;Q9HC62}

336 Pathogen[ P0C214] interacts with 2 human partners: {Q9GZR1;Q9HC62}

337 Pathogen[ P03346] interacts with 2 human partners: {Q9GZR1;Q9HC62}

338 Pathogen[ Q85601] interacts with 2 human partners: {Q9HC62;Q9GZR1}

339 Pathogen[ P14079] interacts with 2 human partners: {Q9HC62;Q9GZR1}

340 Pathogen[ P03383] interacts with 2 human partners: {Q9HC62;Q9GZR1}

341 Pathogen[ P03410] interacts with 2 human partners: {Q9GZR1;Q9HC62}

342 Pathogen[ P14075] interacts with 2 human partners: {Q9HC62;Q9GZR1}

343 Pathogen[ P0C206] interacts with 2 human partners: {Q9HC62;Q9GZR1}

344 Pathogen[ P03363] interacts with 2 human partners: {Q9HC62;Q9GZR1}

345 [Cluster 32]GO:0050152+F molecular\_function [name] omega-amidase activity [def] "Catalysis of the reaction

346 Pathogen[ Q2Q067] interacts with 1 human partners: {Q9NQR4}

347 Pathogen[ P0C214] interacts with 1 human partners: {Q9NQR4}

348 Pathogen[ P03346] interacts with 1 human partners: {Q9NQR4}

349 Pathogen[ Q85601] interacts with 1 human partners: {Q9NQR4}

350 Pathogen[ P14079] interacts with 1 human partners: {Q9NQR4}

351 Pathogen[ P03383] interacts with 1 human partners: {Q9NQR4}

352 Pathogen[ P03410] interacts with 1 human partners: {Q9NQR4}

353 Pathogen[ P14075] interacts with 1 human partners: {Q9NQR4}

354 Pathogen[ P0C206] interacts with 1 human partners: {Q9NQR4}

355 Pathogen[ P03363] interacts with 1 human partners: {Q9NQR4}

356 [Cluster 33]GO:0047933+F molecular\_function [name] glucose-1,6-bisphosphate synthase activity [def] "Catalysis of the reaction

357 Pathogen[ Q2Q067] interacts with 1 human partners: {Q6PCE3}

358 Pathogen[ P0C214] interacts with 1 human partners: {Q6PCE3}

359 Pathogen[ P03346] interacts with 1 human partners: {Q6PCE3}

360 Pathogen[ Q85601] interacts with 1 human partners: {Q6PCE3}

361 Pathogen[ P14079] interacts with 1 human partners: {Q6PCE3}

362 Pathogen[ P03383] interacts with 1 human partners: {Q6PCE3}

363 Pathogen[ P03410] interacts with 1 human partners: {Q6PCE3}

364 Pathogen[ P14075] interacts with 1 human partners: {Q6PCE3}

365 Pathogen[ P0C206] interacts with 1 human partners: {Q6PCE3}

366 Pathogen[ P03363] interacts with 1 human partners: {Q6PCE3}

367 [Cluster 34]GO:0042802+F molecular\_function [name] identical protein binding [def] "Interacting selectively and non-covalently with an identical protein or proteins." [GOC

368 Pathogen[ Q2Q067] interacts with 127 human partners: {P04156;P02792;Q9NWK9;O60232;Q9UL45;Q9UH99;O15234;P07910;P31749;Q13185;A0AVK6;Q9HAU4;P07195;P63172;Q9P209;P07196;Q8IY63;O43663;Q9C005;Q7Z6B0;P38432;Q13485;Q9H9D4;Q9NPI6;Q15233;P18847;Q96F86;O43805;Q9H0F6;P61457;O96004;Q96T88;Q9P0W5;Q05516;Q04206;P50502;P05062;Q12933;O60238;Q96AV8;Q9UJY1;Q9BSB4;Q86XR8;Q14192;P07900;Q9NXR1;O15350;Q96GX9;Q9NQ48;P51610;P26447;Q13158;P17036;D6RGH6;Q14790;Q6BDS2;P20265;Q9NR22;Q06609;Q9UBB4;Q9NP97;P11166;O14818;Q9UHK0;Q06830;P12004;Q9Y3M2;P54253;P56693;Q14653;P67870;P34896;O14641;Q8N140;O14862;Q9H0W8;Q9BV20;Q13233;O43918;Q8IWIJ2;O75530;Q9Y2J4;Q7Z465;P53041;Q16890;Q96007;Q9H7L9;Q13309;P81274;Q99962;Q9C035;P42768;P25963;Q12983;Q9UDV6;Q9NS73;Q96H12;Q06455;Q15628;Q9NS23;Q9UHN1;P60953;Q92734;Q03393;P08670;Q9HCM9;P42226;Q86VS8;P23497;Q66K74;P51808;Q9NVV4;Q86WH2;P57086;Q9Y468;P83916;P23297;Q96ED9;Q00987;Q9UMS4;Q8N668;Q15154;O15392;Q15797;O60936;Q13501;Q9Y224}

369 Pathogen[ P0C214] interacts with 139 human partners: {D6RGH6;Q8IWIJ2;O15234;Q9NWK9;P38432;O43805;Q06609;Q9HAU4;A0AVK6;Q9NPP4;Q15154;Q99832;P51610;Q15628;Q9BSB4;Q9Y2J4;P62993;Q6BDS2;Q9NS23;P54253;Q9NPI6;Q96ED9;Q9UBB4;P81274;Q9P209;Q00987;Q13309;Q7Z465;P42226;Q13158;O14818;O15350;Q9C035;P83916;O75530;Q15233;P56693;P61457;P34897;Q9H0F6;Q04206;Q96GX9;Q06455;Q9UHK0;P60953;O60232;Q92734;Q8N668;P51808;Q9Y468;Q99962;Q16890;Q96T88;P05062;Q9UMS4;Q06830;P11166;Q9UH99;P57086;P20265;Q13501;Q86WH2;Q03393;Q14566;Q86VS8;P07910;Q13233;Q96AT9;Q9Y224;P49257;Q8IYX8;P34896;Q9Y3M2;O14641;Q86XR8;Q12933;Q13485;P18847;Q9C005;P08670;O43663;Q9L485;Q8WZ19;Q13185;Q9P0W5;Q14192;Q7Z6B0;P25963;Q9NS73;Q9HCM9;P53041;Q14653;O96007;Q9UDV6;O43918;Q12983;P23497;P26447;O15392;P04156;P63172;Q9NQ48;O60238;P17036;P02792;Q9NP97;O14862;Q8IY63;Q9H9D4;O96004;P16118;O14727;Q96H12;Q15797;Q9H0W8;P67870;P36551;Q9NXR1;P42768;P63261;Q9NVV4;Q9UJY1;P23297;Q96F86;P07196;Q05516;P31749;Q9NR22;O60936;P07195;Q66K74;P50502;Q8N140;P55072;Q9BV20;Q9H7L9;Q9UHN1;Q14790;Q96AV8}

370 Pathogen[ P03346] interacts with 142 human partners: {P02792;P12004;O15234;Q9UBB4;P07196;Q9HAU4;Q06609;P18847;P07900;Q9NPI6;Q8WZ1



- 9;Q86XR8;Q9C005;O15392;Q86VS8;Q92734;O43918;Q9Y3M2;P50502;Q9BV20;O75530;P42768;Q13158;Q8N668;P23297;P25963;Q7Z465;Q15797;Q15154;O60238;P51808;P49257;Q99962;O14818;P51610;Q9UMS4;Q9UH99;P56693;Q9UJY1;Q66K74;Q04206;P07910;Q9BSB4;Q9H9D4;Q9NXR1;Q9P209;O60232;Q9NWK9;Q9UHN1;Q9C035;P60953;P42226;P62993;Q96AV8;D6RGH6;O15350;Q9H0F6;Q12983;P55072;Q8IYX8;Q03393;O43805;Q00987;P20265;Q7Z6B0;Q9Y371;Q8IY63;O96004;P17036;Q14566;Q16890;Q9Y224;Q8N140;Q9NPP4;O14641;P81274;P31749;Q13309;Q8N5Z5;Q9UDV6;Q9P0W5;Q14192;Q9UHK0;Q8N5I3;Q9NVV4;Q9HCM9;Q9NS73;Q9NR22;O75604;P53041;Q13233;P11166;P63172;Q9NQ48;Q9Y2J4;Q9UL45;O96007;P26447;Q9Y468;Q14653;Q15628;P08670;Q05516;Q06830;Q96H12;Q15233;O60936;Q96ED9;Q14790;P07195;P04156;P83916;Q9H7L9;Q9H0W8;P23497;Q13485;Q9UI14;P05062;P38432;P67870;P54253;P61457;Q6BDS2;Q9BZR9;O43663;Q86WH2;A0AVK6;O14862;O14727;Q9NS23;P53367;Q96F86;Q9NP97;Q13185;Q9NRD5;Q96GX9;Q96T88;Q9UJC3;Q8IYW2;Q13501;P57086;Q06455}
- 371 Pathogen[ Q85601] interacts with 130 human  
partners: {Q16890;Q8IYW2;Q92734;O15234;Q13309;Q06455;P83916;Q9HAU4;P26447;Q9NP97;P31749;P62993;Q9NPI6;Q8WZ19;Q9NR22;Q15154;P51808;Q9BSB4;Q86VS8;Q9UBB4;Q9Y3M2;P17036;Q8IY63;P07196;Q9H0W8;Q13158;P08670;Q7Z465;P81274;Q15797;Q14790;Q99962;Q9P0W5;Q9UDV6;Q9UMS4;Q9Y468;Q66K74;O60936;Q9P209;O60232;Q9NWK9;Q9BZR9;O15392;D6RGH6;Q9NS23;P23297;Q9H0F6;P05062;P63172;O96004;Q96GX9;P16118;P51610;O43663;Q9NS73;Q14566;Q86XR8;Q9UH99;Q14653;P38432;Q8N140;P11166;O14641;P34896;Q12933;P18847;P49257;Q9C005;P63261;Q04206;P42768;P42226;Q14192;O75530;O14862;Q96T88;Q8N668;P53041;P57086;Q13185;Q9NQ48;Q9Y2J4;O96007;P07900;Q9UHK0;P56693;Q9C035;Q7Z6B0;Q15628;Q05516;Q06830;Q15233;P07195;Q12983;P60953;P02792;P04156;P12004;O15350;Q96F86;P67870;P54253;Q13233;P50502;Q9NVV4;Q9BV20;Q9NXR1;Q86WH2;Q00987;Q9H7L9;O60238;A0AVK6;Q96ED9;Q06609;Q13485;Q9UHN1;O14818;Q9Y224;Q9UJY1;P61457;O43918;Q96AV8;O43805;P20265;Q9HCM9;Q8IYX8;Q13501;Q96H12;Q9H9D4;P25963}
- 372 Pathogen[ P14079] interacts with 146 human  
partners: {P09327;P49257;Q9NQ48;Q16890;Q9NR22;P63261;Q8N7P3;Q9UDV6;P57086;P63172;Q9C005;Q14566;Q9UJC3;Q9NS23;P53041;D6RGH6;Q14653;P51808;Q9C035;Q9P209;Q13309;Q92734;Q14192;P22234;Q9H0W8;P56750;Q86VS8;P20265;Q96L14;O14641;P04156;Q9NPI6;Q9BV20;Q96ED9;Q66K74;P61457;Q9Y468;O15392;Q6ZUJ8;Q05516;P07910;Q9UI14;O96004;Q969X0;Q9Y2J4;Q96H12;Q8N5I3;P34897;Q9Y371;Q9HAU4;Q9UHK0;P54253;P11166;Q15797;Q7Z465;P23497;P51610;O15350;O00501;P07196;Q9HCM9;Q9BSB4;Q86WH2;Q9NP97;P07195;Q00987;Q96007;Q9NWK9;P42226;P8N6F1;O43663;Q13185;Q9UMS4;Q14790;O75530;Q96HD9;Q9UL45;Q9UBB4;Q96F86;Q96GX9;Q9NVV4;P07900;Q96B33;O14818;P26447;O60936;Q12983;Q9UJY1;Q8IYW2;Q8N668;Q9NWX6;Q8N140;P23297;Q5T0D9;P10620;Q13501;P56693;O14862;Q9P0W5;Q12933;Q9Y3M2;P62993;Q13158;O43918;P38432;Q06455;Q9H0F6;P67870;Q96AV8;Q9H8K7;Q8N5Z5;P12004;P81274;P08670;Q03393;Q15154;A0AVK6;P83916;Q86XR8;Q9NXR1;P36551;Q9UH99;Q9H7L9;Q6BDS2;Q9UHN1;O60238;Q15233;Q06609;Q9Y239;Q8IYX8;Q9Y224;Q15628;O15234;P50502;O60232;Q9H9D4;Q99836;Q8IY63;O43805;Q9NS73;P34896;P43320;P42768;Q7Z6B0;Q99962;Q9NPP4}
- 373 Pathogen[ P03383] interacts with 107 human  
partners: {Q9NVV4;Q9UHN1;Q8IYW2;O15234;Q86XR8;Q06609;Q13485;Q14653;Q06455;O14862;Q9H0F6;P51808;Q7Z6B0;Q13233;P08670;P04156;Q96H12;Q9UBB4;P50502;Q9NWK9;Q9H0W8;Q8N668;P23297;Q7Z465;P31749;P34896;P63172;Q9H7L9;P18847;P60953;Q9NS73;Q9UH99;Q86WH2;D6RGH6;O60936;O60232;Q15797;P42226;Q05516;P07900;P61457;Q13158;P38432;Q12983;P83916;Q96GX9;O96004;P51610;Q13185;P81274;O60238;Q9UDV6;Q9C035;Q9Y2J4;Q9UHK0;P07195;O14641;Q14192;Q12933;Q9NR22;P17036;Q9NP97;Q9C005;Q9NPI6;Q9HCM9;Q15154;Q9NQ48;P42768;O15350;P07196;Q86VS8;Q9Y3M2;P25963;P53041;Q9P0W5;Q8N140;Q96ED9;O96007;Q8IY63;Q13501;O43918;Q15628;Q9BV20;P54253;P67870;P23497;Q9H9D4;Q9P209;Q13309;Q04206;Q9UJY1;Q15233;Q96F86;P57086;O43663;P20265;Q96AV8;P56693;O14818;Q16890;A0AVK6;Q9UMS4;Q9Y224;Q9Y468;O75530;Q6BDS2;Q9BSB4}
- 374 Pathogen[ P03410] interacts with 160 human  
partners: {P26447;P57086;Q04206;O15392;Q96HD9;Q96AV8;P43320;P51610;Q9UJC3;Q96B33;P51808;Q99832;O15234;Q9HCM9;Q9Y239;Q12983;Q8N7P3;Q9NP97;Q9UDV6;P49257;P50502;O96004;P20963;Q9NXR1;P11166;Q9Y2J4;Q15233;Q9H9D4;P18847;Q15154;Q9BSB4;P16118;Q9UHK0;Q9Y3M2;Q9NPI6;Q9UH99;Q9NS73;Q9Y224;O14862;Q14653;P53367;D6RGH6;O00501;Q8WZ19;Q7Z6B0;P63172;Q7Z465;O43918;Q9NS23;Q13501;P31749;Q8N6F1;Q9P209;P42768;P07900;Q9Y468;Q9NPP4;Q86VS8;Q969X0;Q9UJY1;Q96H12;Q13233;P05062;Q9NVV4;Q8IYX8;P56747;Q9NR22;P07195;P36551;Q9BV20;P17036;P07196;P38432;Q9UL45;Q13158;Q9C005;P22234;O43805;Q15628;Q9C035;P07910;O60936;Q9NRD5;Q96F86;Q13309;Q6ZUJ8;Q9NPE6;Q96ED9;O96007;Q15797;O60232;Q13485;Q9H8K7;Q9H7L9;Q9Y371;P04156;Q12933;P56693;O14818;P53041;Q92734;Q9P0W5;Q06455;P81274;Q13185;Q86WH2;Q96GX9;Q66K74;Q8N5I3;P08670;P42226;P60953;Q6BDS2;Q9NWK9;P23297;Q9UMS4;Q5T0D9;P83916;Q16890;O15350;Q8N5Z5;Q8N140;Q99962;Q9NQ48;P63261;Q00987;P56750;Q9H0W8;Q8IU99;P25963;P54253;P20265;P02792;Q96L14;P67870;Q9UBB4;Q14566;Q8IY63;P62993;Q9UHN1;P12004;Q03393;Q9NWX6;Q9UI14;Q8N668;Q9BRK5;Q14192;O95471;Q06830;P34897;Q8IYW2;P34896;O60238;A0AVK6;Q06609;O43663;O75530;Q9H0F6;O14641;P61457}
- 375 Pathogen[ P14075] interacts with 110 human  
partners: {P60953;Q96GX9;O15234;P54253;Q9NP97;Q12983;P23497;Q04206;Q9P0W5;Q96H12;P81274;Q9BSB4;O43663;P42226;Q92734;Q9NR22;P34896;Q7Z465;Q9Y224;Q8N140;P38432;P51808;P57086;Q9NVV4;P18847;Q9Y468;P42768;P51610;Q9BV20;O43918;P17036;P20265;P04156;O60232;Q9UJY1;P56693;Q9NPI6;Q8N668;Q5T0D9;P63172;Q9UBB4;Q8IY63;P25963;P07195;Q9HCM9;O96004;Q13485;Q9UHK0;P07900;Q9Y2J4;P16118;P31749;Q14653;Q06455;O14641;Q7Z6B0;Q12933;Q86XR8;O15350;O14862;Q9C005;Q13185;Q9H9D4;P50502;Q86WH2;Q16890;P67870;O60238;Q13158;Q8IYW2;O14818;Q13309;Q9C035;P53041;P61457;Q9UMS4;O96007;P83916;Q96AV8;Q15628;Q15233;P08670;Q15154;Q9UHN1;Q9UH99;Q9UDV6;Q05516;Q9H8K7;P07196;Q9H0W8;Q9NQ48;Q86VS8;Q9P209;Q9Y3M2;O60936;Q13233;Q6BDS2;D6RGH6;Q9NS73;Q9H0F6;Q96F86;Q14192;A0AVK6;Q9H7L9;Q06609;Q13501;Q96ED9;P23297;O75530;Q9NWK9}
- 376 Pathogen[ P0C206] interacts with 141 human  
partners: {Q9Y468;Q9Y224;Q9BSB4;Q86XR8;P07195;Q9UMS4;Q86WH2;Q13501;Q9NWK9;Q9C005;Q8N140;P05062;O75530;Q9UHN1;P07196;P26447;Q06455;P31749;Q9NP97;Q9UBB4;Q9UL45;P81274;Q9BV20}

;Q13309;P04156;Q9HAU4;O14862;Q15233;Q96AV8;Q05516;Q8IY63;Q9UHK0;Q9UH99;O75604;P25963;P53041;Q16890;P36551;P57086;Q9NPI6;Q96007;P34897;Q99962;P56693;D6RGH6;Q13158;Q12933;P11166;Q13233;Q9UI14;P62993;Q6BDS2;Q66K74;Q86VS8;Q96ED9;O96004;Q9P0W5;Q9UJY1;O43918;Q5TOD9;O60238;Q12983;O60936;P50502;Q8WZ19;P83916;Q9BZR9;Q9H0W8;P07900;P51808;P51610;P63261;P34896;Q96T88;Q96F86;Q04206;Q8IYX8;P49257;A0AVK6;Q9Y2J4;P67870;O43663;Q14790;O15234;Q15628;P20792;Q9NVV4;O14818;Q96H12;O15392;Q7Z465;Q9C035;Q9UDV6;Q13485;Q96L14;P55072;P60953;Q9NR22;Q9H7L9;Q9NQ48;P61457;Q96GX9;Q15797;Q9H0F6;P18847;Q9HCM9;P42226;P16118;Q13185;P20265;O15350;Q03393;Q06609;Q9NXR1;Q14192;Q92734;Q9P209;Q9H8K7;Q9UJC3;P08670;P23297;Q00987;O43805;P42768;Q9NS23;Q7Z6B0;Q8N668;Q15154;P63172;Q06830;Q9NRD5;Q14566;P38432;O60232;Q9NS73;Q8IYW2;P17036;P54253;Q14653;P12004;Q9H9D4}

377 Pathogen[ P03363] interacts with 122 human partners: {Q14653;Q86VS8;Q15233;Q06455;Q96H12;Q13309;Q9NVV4;Q8N5Z5;Q99962;Q9BZR9;P07900;Q96ED9;Q04206;Q66K74;P26447;P83916;Q9Y468;Q9HAU4;P50502;O43805;P25963;O60232;Q92734;Q9H7L9;P18847;O75604;Q12933;P53041;Q8N140;Q6BDS2;Q9UHK0;P42768;O96007;Q9UJY1;Q9Y3M2;Q96RU3;Q8IY63;O75530;Q15797;P04156;Q9P209;Q13158;P23497;P57086;Q13185;P42226;Q9C005;P81274;Q8N668;Q9BSB4;Q9Y2J4;P07196;Q92904;P61457;Q96F86;Q9P0W5;P56693;Q9H0W8;P63172;Q9NR22;P31749;Q9UDV6;Q9UBB4;P08670;P17036;P20265;P07910;Q9NQ48;A0AVK6;Q7Z465;O96004;Q9C035;P54253;P51808;Q9NS23;D6RGH6;O60936;O14862;Q15628;Q9BV20;Q8IYW2;Q13485;Q9H0F6;Q16890;Q86WH2;P63261;Q9HCM9;Q96T88;Q8IYX8;Q96AV8;P67870;Q06609;Q86XR8;Q96GX9;Q9UHN1;Q9Y224;O43918;Q9UMS4;Q9NPP4;Q9NP97;O43663;Q7Z6B0;Q8WZ19;Q9NXR1;Q9H9D4;Q9NWK9;O14641;Q9NS73;Q05516;P60953;O60238;Q15154;Q13233;Q9NPI6;P11166;P38432;P23297;P51610;Q9UH99;O15234;Q14192;Q9UJC3}

378 [Cluster 35]GO:0003886+F molecular\_function [name] DNA (cytosine-5-)-methyltransferase activity [def] "Catalysis of the reaction

379 Pathogen[ Q2Q067] interacts with 3 human partners: {Q9Y6K1;Q9UBC3;P26358}

380 Pathogen[ P0C214] interacts with 2 human partners: {Q9Y6K1;P26358}

381 Pathogen[ P03346] interacts with 4 human partners: {Q9Y6K1;Q9UBC3;P26358;O14717}

382 Pathogen[ Q85601] interacts with 3 human partners: {P26358;Q9Y6K1;Q9UBC3}

383 Pathogen[ P14079] interacts with 3 human partners: {Q9Y6K1;Q9UBC3;P26358}

384 Pathogen[ P03383] interacts with 2 human partners: {Q9Y6K1;P26358}

385 Pathogen[ P03410] interacts with 3 human partners: {P26358;Q9UBC3;Q9Y6K1}

386 Pathogen[ P14075] interacts with 2 human partners: {Q9Y6K1;P26358}

387 Pathogen[ P0C206] interacts with 3 human partners: {Q9Y6K1;P26358;Q9UBC3}

388 Pathogen[ P03363] interacts with 4 human partners: {Q9Y6K1;O14717;P26358;Q9UBC3}

389 [Cluster 36]GO:0046538+F molecular\_function [name] 2,3-bisphosphoglycerate-dependent phosphoglycerate mutase activity [def] "Catalysis of the reaction

390 Pathogen[ Q2Q067] interacts with 1 human partners: {P15259}

391 Pathogen[ P0C214] interacts with 1 human partners: {P15259}

392 Pathogen[ P03346] interacts with 1 human partners: {P15259}

393 Pathogen[ Q85601] interacts with 1 human partners: {P15259}

394 Pathogen[ P14079] interacts with 1 human partners: {P15259}

395 Pathogen[ P03383] interacts with 1 human partners: {P15259}

396 Pathogen[ P03410] interacts with 1 human partners: {P15259}

397 Pathogen[ P14075] interacts with 1 human partners: {P15259}

398 Pathogen[ P0C206] interacts with 1 human partners: {P15259}

399 Pathogen[ P03363] interacts with 1 human partners: {P15259}

400 [Cluster 37]GO:0004407+F molecular\_function [name] histone deacetylase activity [def] "Catalysis of the reaction

401 Pathogen[ Q2Q067] interacts with 12 human partners: {P56524;Q9BY41;Q9UKV0;Q13547;O94776;O15379;Q9UQL6;Q969S8;Q96DB2;Q92769;Q8WUI4;Q9NSC2}

402 Pathogen[ P0C214] interacts with 12 human partners: {Q13547;Q969S8;Q96DB2;P56524;O94776;Q92769;Q9UKV0;Q9NSC2;O15379;Q8WUI4;Q9UQL6;Q9BY41}

403 Pathogen[ P03346] interacts with 12 human partners: {Q969S8;Q96DB2;O15379;Q9NSC2;P56524;O94776;Q92769;Q13547;Q9BY41;Q8WUI4;Q9UKV0;Q9UQL6}

404 Pathogen[ Q85601] interacts with 12 human partners: {Q969S8;Q9UKV0;Q96DB2;Q9BY41;O94776;Q9UQL6;Q92769;P56524;O15379;Q13547;Q9NSC2;Q8WUI4}

405 Pathogen[ P14079] interacts with 11 human partners: {Q9UQL6;O15379;Q96DB2;Q969S8;Q8WUI4;Q9UKV0;Q92769;Q9BY41;P56524;O94776;Q9NSC2}

406 Pathogen[ P03383] interacts with 11 human partners: {O94776;Q9UQL6;Q92769;Q9NSC2;O15379;Q13547;Q9BY41;Q9UKV0;P56524;Q8WUI4;Q969S8}

407 Pathogen[ P03410] interacts with 12 human partners: {Q9UKV0;Q9BY41;Q8WUI4;Q9UQL6;Q969S8;Q92769;O15379;P56524;O94776;Q13547;Q9NSC2;Q96DB2}

408 Pathogen[ P14075] interacts with 11 human partners: {Q9BY41;Q9NSC2;Q969S8;P56524;O94776;Q9UKV0;Q13547;Q92769;O15379;Q9UQL6;Q8WUI4}

409 Pathogen[ P0C206] interacts with 12 human partners: {Q92769;Q9NSC2;Q96DB2;Q9UKV0;Q13547;O94776;O15379;Q8WUI4;Q9BY41;P56524;Q969S8;Q9UQL6}

410 Pathogen[ P03363] interacts with 8 human

411 partners:{Q9BY41;O15379;Q969S8;Q9UQL6;Q9UKV0;Q13547;Q8WUI4;O94776}  
[Cluster 38]GO:0019900+F molecular\_function [name] kinase binding [def]  
"Interacting selectively and non-covalently with a kinase, any enzyme that catalyzes the  
transfer of a phosphate group." [GOC  
412 Pathogen[ Q2Q067] interacts with 18 human  
partners:{P06400;Q7L9L4;Q99741;O60260;O95999;Q15172;Q96N16;P11166;P62324;Q9UJM3;Q9972  
8;Q15654;Q86VP1;Q15628;Q9UNE7;Q8TBN0;P23497;Q9UMX0}  
413 Pathogen[ P0C214] interacts with 24 human  
partners:{Q99728;Q9Y376;Q15628;Q8TBN0;Q15172;Q9UJM3;A0MZ66;Q7L9L4;P11166;O60825;Q86VP  
1;O95999;Q9H0E2;Q15654;P62324;P23497;Q5VZ66;O60260;P16118;Q9UNE7;Q9UMX0;P06400;Q99741  
;Q96N16}  
414 Pathogen[ P03346] interacts with 25 human  
partners:{Q15172;Q8TBN0;Q96N16;P06400;Q99728;Q9UMX0;Q7L9L4;Q9Y376;Q9H0E2;O95999;Q9Y3P  
8;Q96AA8;O95863;Q9UNE7;P11166;Q15628;O60260;Q5VZ66;P23497;P62324;Q9Y2R2;Q15654;Q99741  
;Q86VP1;Q9UJM3}  
415 Pathogen[ Q85601] interacts with 21 human  
partners:{Q86VP1;P06400;Q15654;O60825;P62324;Q99728;Q15172;Q9Y376;P16118;P11166;Q96AA  
8;Q8TBN0;Q15628;O60260;Q9UJM3;Q7L9L4;O95999;Q99741;Q9UNE7;Q96N16;Q9UMX0}  
416 Pathogen[ P14079] interacts with 20 human  
partners:{O60260;P62324;O95999;Q9UJM3;Q9UMX0;Q15172;P24588;Q8TBN0;A0MZ66;Q5VZ66;P1116  
6;P23497;Q96N16;Q99741;Q7L9L4;Q96AA8;Q9H0E2;Q15628;Q9Y376;Q9Y3P8}  
417 Pathogen[ P03383] interacts with 15 human  
partners:{P62324;Q9UJM3;Q86VP1;P06400;Q15654;Q7L9L4;Q96N16;O60260;Q9UMX0;O95999;Q1562  
8;P23497;Q8TBN0;Q99741;Q9Y3P8}  
418 Pathogen[ P03410] interacts with 24 human  
partners:{P11166;P16118;Q15172;Q7L9L4;Q96N16;P06400;O60260;A0MZ66;Q86VP1;Q15654;Q1562  
8;Q9UMX0;Q9UNE7;Q9Y3P8;Q96AA8;Q5VZ66;O95999;Q9Y376;P62324;Q9H0E2;Q8TBN0;Q9UJM3;P24588  
;Q99741}  
419 Pathogen[ P14075] interacts with 17 human  
partners:{P23497;P62324;Q96N16;Q96AA8;P16118;Q86VP1;Q9UJM3;Q9Y3P8;O95999;P06400;Q1565  
4;Q15628;Q99741;Q7L9L4;O60260;Q8TBN0;Q9UMX0}  
420 Pathogen[ P0C206] interacts with 26 human  
partners:{P62324;Q86VP1;Q9UMX0;Q15172;O95999;Q96AA8;Q15654;Q9Y376;P11166;Q9Y2R2;Q9974  
1;Q96N16;Q8TBN0;Q9H0E2;Q9Y3P8;Q9UNE7;O60260;Q99728;Q15628;A0MZ66;O60825;Q9UJM3;P16118  
;Q7L9L4;Q5VZ66;P06400}  
421 Pathogen[ P03363] interacts with 21 human  
partners:{Q15654;Q86VP1;Q9Y3P8;Q9Y2R2;Q9UMX0;P23497;P06400;P62324;Q99741;Q9UNE7;Q9H0E  
2;Q9Y376;Q7L9L4;Q15628;Q15172;Q9UJM3;Q99728;Q96N16;Q8TBN0;P11166;Q96AA8}  
422 [Cluster 39]GO:0009881+F molecular\_function [name] photoreceptor activity [def]  
"The function of absorbing and responding to incidental electromagnetic radiation,  
particularly visible light. The response may involve a change in conformation." [GOC  
423 Pathogen[ Q2Q067] interacts with 1 human partners:{Q16526}  
424 Pathogen[ P0C214] interacts with 2 human partners:{Q49AN0;Q16526}  
425 Pathogen[ P03346] interacts with 2 human partners:{Q49AN0;Q16526}  
426 Pathogen[ Q85601] interacts with 2 human partners:{Q49AN0;Q16526}  
427 Pathogen[ P14079] interacts with 2 human partners:{Q16526;Q49AN0}  
428 Pathogen[ P03383] interacts with 1 human partners:{Q16526}  
429 Pathogen[ P03410] interacts with 2 human partners:{Q16526;Q49AN0}  
430 Pathogen[ P14075] interacts with 1 human partners:{Q16526}  
431 Pathogen[ P0C206] interacts with 2 human partners:{Q16526;Q49AN0}  
432 Pathogen[ P03363] interacts with 2 human partners:{Q49AN0;Q16526}  
433 [Cluster 40]GO:0019809+F molecular\_function [name] spermidine binding [def]  
"Interacting selectively and non-covalently with spermidine,  
N-(3-aminopropyl)-1,4-diaminobutane." [GOC  
434 Pathogen[ Q2Q067] interacts with 1 human partners:{P21673}  
435 Pathogen[ P0C214] interacts with 1 human partners:{P21673}  
436 Pathogen[ P03346] interacts with 1 human partners:{P21673}  
437 Pathogen[ Q85601] interacts with 1 human partners:{P21673}  
438 Pathogen[ P14079] interacts with 1 human partners:{P21673}  
439 Pathogen[ P03383] interacts with 1 human partners:{P21673}  
440 Pathogen[ P03410] interacts with 1 human partners:{P21673}  
441 Pathogen[ P14075] interacts with 1 human partners:{P21673}  
442 Pathogen[ P0C206] interacts with 1 human partners:{P21673}  
443 Pathogen[ P03363] interacts with 1 human partners:{P21673}  
444 [Cluster 41]GO:0046966+F molecular\_function [name] thyroid hormone receptor binding  
[def] "Interacting selectively and non-covalently with a thyroid hormone receptor." [GOC  
445 Pathogen[ Q2Q067] interacts with 23 human  
partners:{Q96HR3;Q9NPJ6;P55345;Q93074;O75448;O60244;P28702;Q14669;O43593;Q15654;Q9UHV  
7;Q15544;Q9NVC6;P37198;Q15466;Q9Y2X0;Q14686;Q15545;Q15652;Q9Y2W1;O75376;Q15651;Q00403  
}  
446 Pathogen[ P0C214] interacts with 22 human  
partners:{Q15651;Q9Y2X0;Q93074;Q00403;Q96HR3;Q9NVC6;P55345;Q14686;Q15545;O60244;P3719  
8;Q15544;Q15652;Q15654;O75376;O43593;Q9UHV7;Q14669;O75448;Q9Y2W1;Q9NPJ6;Q15466}  
447 Pathogen[ P03346] interacts with 25 human  
partners:{Q9NPJ6;Q15466;Q9P2W1;Q96HR3;Q93074;O60244;P37198;Q15652;O43593;O75448;P2870  
2;Q15646;P55345;Q14669;O75376;Q9NVC6;Q9Y2X0;Q00403;Q15651;Q15545;Q9Y2W1;Q15654;Q15544

```

;Q9UHV7;Q14686}
448 Pathogen[ Q85601] interacts with 22 human
partners:{Q9Y2X0;Q15466;Q9UHV7;Q15654;P28702;Q15545;Q14669;O75448;Q15651;Q14686;O7537
6;Q00403;Q15652;O43593;Q9Y2W1;O60244;Q96HR3;Q93074;Q15544;Q9NPJ6;Q9NVC6;P55345}
449 Pathogen[ P14079] interacts with 20 human
partners:{Q06244;Q9Y2X0;Q96HR3;Q9NVC6;Q15652;O75448;Q15651;P55345;Q00403;Q9UHV7;P2870
2;P37198;Q9NPJ6;O75376;Q93074;Q15466;O43593;Q14686;Q9Y2W1;Q15545}
450 Pathogen[ P03383] interacts with 20 human
partners:{Q15544;O75376;O60244;Q14686;Q9NPJ6;Q15651;Q93074;Q15654;Q96HR3;Q00403;O7544
8;Q15652;Q15466;P28702;Q9UHV7;P37198;Q9NVC6;Q15545;Q9Y2W1;Q9Y2X0}
451 Pathogen[ P03410] interacts with 21 human
partners:{Q9Y2W1;Q15652;Q14686;Q9NVC6;Q9NPJ6;Q15651;O75376;Q15654;P28702;Q15466;Q0040
3;Q96HR3;Q15544;O60244;Q9UHV7;Q9Y2X0;Q93074;O75448;Q15545;O43593;P55345}
452 Pathogen[ P14075] interacts with 20 human
partners:{Q9NPJ6;Q96HR3;Q14686;Q00403;Q15652;Q15544;O75448;O75376;Q93074;Q9UHV7;O6024
4;P37198;Q15545;Q15654;P28702;Q9NVC6;Q15466;Q9Y2W1;Q15651;Q9Y2X0}
453 Pathogen[ P0C206] interacts with 22 human
partners:{Q15466;Q96HR3;Q15545;Q15544;Q15654;Q9UHV7;Q14669;Q15651;Q9NPJ6;Q14686;Q9Y2W
1;O75376;Q15652;O60244;P28702;Q9NVC6;O75448;P55345;Q9Y2X0;Q00403;O43593;Q93074}
454 Pathogen[ P03363] interacts with 20 human
partners:{Q15654;Q15466;Q96HR3;O75376;Q15545;Q14686;Q15652;Q00403;O43593;Q14669;P2870
2;Q15544;Q9NVC6;Q9UHV7;Q93074;Q15651;O75448;Q9NPJ6;O60244;P37198}
455 [Cluster 42]GO:0032549+F molecular_function [name] ribonucleoside binding [def]
"Interacting selectively and non-covalently with a ribonucleoside, a compound consisting
of a purine or pyrimidine nitrogenous base linked to ribose." [GOC
456 Pathogen[ Q2Q067] interacts with 3 human partners:{P30876;Q9H9Y6;O14802}
457 Pathogen[ P0C214] interacts with 4 human partners:{P30876;Q9H9Y6;Q9NW08;O14802}
458 Pathogen[ P03346] interacts with 3 human partners:{Q9H9Y6;P30876;O14802}
459 Pathogen[ Q85601] interacts with 4 human partners:{Q9H9Y6;Q9NW08;P30876;O14802}
460 Pathogen[ P14079] interacts with 4 human partners:{Q9NW08;P30876;O14802;Q9H9Y6}
461 Pathogen[ P03383] interacts with 3 human partners:{Q9H9Y6;P30876;O14802}
462 Pathogen[ P03410] interacts with 4 human partners:{P30876;Q9NW08;O14802;Q9H9Y6}
463 Pathogen[ P14075] interacts with 3 human partners:{P30876;Q9H9Y6;O14802}
464 Pathogen[ P0C206] interacts with 4 human partners:{Q9NW08;O14802;Q9H9Y6;P30876}
465 Pathogen[ P03363] interacts with 2 human partners:{Q9H9Y6;P30876}
466 [Cluster 43]GO:0004634+F molecular_function [name] phosphopyruvate hydratase activity
[def] "Catalysis of the reaction
467 Pathogen[ Q2Q067] interacts with 3 human partners:{P13929;A6NNW6;P06733}
468 Pathogen[ P0C214] interacts with 4 human partners:{P13929;A6NNW6;P09104;P06733}
469 Pathogen[ P03346] interacts with 3 human partners:{A6NNW6;P13929;P06733}
470 Pathogen[ Q85601] interacts with 2 human partners:{P06733;P13929}
471 Pathogen[ P14079] interacts with 3 human partners:{A6NNW6;P06733;P13929}
472 Pathogen[ P03383] interacts with 2 human partners:{A6NNW6;P06733}
473 Pathogen[ P03410] interacts with 3 human partners:{P06733;P13929;A6NNW6}
474 Pathogen[ P14075] interacts with 2 human partners:{P06733;A6NNW6}
475 Pathogen[ P0C206] interacts with 3 human partners:{P06733;A6NNW6;P13929}
476 Pathogen[ P03363] interacts with 2 human partners:{P06733;A6NNW6}
477 [Cluster 44]GO:0051787+F molecular_function [name] misfolded protein binding [def]
"Interacting selectively and non-covalently with a misfolded protein." [GOC
478 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9UBS3;Q9UNE7}
479 Pathogen[ P0C214] interacts with 3 human partners:{Q9UBS3;P10909;Q9UNE7}
480 Pathogen[ P03346] interacts with 2 human partners:{Q9UBS3;Q9UNE7}
481 Pathogen[ Q85601] interacts with 2 human partners:{Q9UBS3;Q9UNE7}
482 Pathogen[ P14079] interacts with 2 human partners:{Q9UBS3;P10909}
483 Pathogen[ P03383] interacts with 1 human partners:{Q9UBS3}
484 Pathogen[ P03410] interacts with 3 human partners:{Q9UBS3;Q9UNE7;P10909}
485 Pathogen[ P14075] interacts with 1 human partners:{Q9UBS3}
486 Pathogen[ P0C206] interacts with 3 human partners:{Q9UNE7;P10909;Q9UBS3}
487 Pathogen[ P03363] interacts with 2 human partners:{Q9UBS3;Q9UNE7}
488 [Cluster 45]GO:0035241+F molecular_function [name] protein-arginine omega-N
monomethyltransferase activity [def] "Catalysis of the addition of a methyl group to
either of the unmethylated terminal nitrogen atoms (also called omega nitrogen) in
peptidyl-arginine to form an omega-N-G-monomethylated arginine residue." [PMID
489 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9NVM4;Q96LA8;Q9NR22}
490 Pathogen[ P0C214] interacts with 3 human partners:{Q9NVM4;Q9NR22;Q96LA8}
491 Pathogen[ P03346] interacts with 3 human partners:{Q9NR22;Q9NVM4;Q96LA8}
492 Pathogen[ Q85601] interacts with 3 human partners:{Q9NR22;Q9NVM4;Q96LA8}
493 Pathogen[ P14079] interacts with 3 human partners:{Q9NR22;Q96LA8;Q9NVM4}
494 Pathogen[ P03383] interacts with 2 human partners:{Q9NR22;Q96LA8}
495 Pathogen[ P03410] interacts with 3 human partners:{Q96LA8;Q9NVM4;Q9NR22}
496 Pathogen[ P14075] interacts with 2 human partners:{Q9NR22;Q96LA8}
497 Pathogen[ P0C206] interacts with 3 human partners:{Q96LA8;Q9NVM4;Q9NR22}
498 Pathogen[ P03363] interacts with 3 human partners:{Q96LA8;Q9NVM4;Q9NR22}
499 [Cluster 46]GO:0004528+F molecular_function [name] phosphodiesterase I activity [def]
"Catalysis of the sequential hydrolytic removal of 5'-nucleotides from the 3'-hydroxy
termini of 3'-hydroxy-terminated oligonucleotides." [EC

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500 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9Y2M0;P27695}
501 Pathogen[ P0C214] interacts with 2 human partners:{P27695;Q9Y2M0}
502 Pathogen[ P03346] interacts with 2 human partners:{P27695;Q9Y2M0}
503 Pathogen[ Q85601] interacts with 2 human partners:{Q9Y2M0;P27695}
504 Pathogen[ P14079] interacts with 2 human partners:{P27695;Q9Y2M0}
505 Pathogen[ P03383] interacts with 2 human partners:{Q9Y2M0;P27695}
506 Pathogen[ P03410] interacts with 2 human partners:{P27695;Q9Y2M0}
507 Pathogen[ P14075] interacts with 2 human partners:{P27695;Q9Y2M0}
508 Pathogen[ P0C206] interacts with 2 human partners:{P27695;Q9Y2M0}
509 Pathogen[ P03363] interacts with 1 human partners:{Q9Y2M0}
510 [Cluster 47]GO:0003904+F molecular_function [name] deoxyribodipyrimidine photo-lyase
activity [def] "Catalysis of the reaction
511 Pathogen[ Q2Q067] interacts with 1 human partners:{Q16526}
512 Pathogen[ P0C214] interacts with 2 human partners:{Q49AN0;Q16526}
513 Pathogen[ P03346] interacts with 2 human partners:{Q49AN0;Q16526}
514 Pathogen[ Q85601] interacts with 2 human partners:{Q49AN0;Q16526}
515 Pathogen[ P14079] interacts with 2 human partners:{Q16526;Q49AN0}
516 Pathogen[ P03383] interacts with 1 human partners:{Q16526}
517 Pathogen[ P03410] interacts with 2 human partners:{Q16526;Q49AN0}
518 Pathogen[ P14075] interacts with 1 human partners:{Q16526}
519 Pathogen[ P0C206] interacts with 2 human partners:{Q16526;Q49AN0}
520 Pathogen[ P03363] interacts with 2 human partners:{Q49AN0;Q16526}
521 [Cluster 48]GO:0016702+F molecular_function [name] oxidoreductase activity, acting on
single donors with incorporation of molecular oxygen, incorporation of two atoms of
oxygen [def] "Catalysis of an oxidation-reduction (redox) reaction in which hydrogen or
electrons are transferred from one donor, and two oxygen atoms is incorporated into a
donor." [GOC
522 Pathogen[ Q2Q067] interacts with 18 human
partners:{Q9UPP1;Q9NXW9;P09917;Q6NS38;O75151;Q8NHM5;Q9BV57;O00625;Q9NWT6;Q96Q83;Q96KS
0;O75164;Q9H6W3;Q9H6Z9;Q8N371;Q9GZT9;Q15652;Q7LBC6}
523 Pathogen[ P0C214] interacts with 21 human
partners:{Q8N371;P09917;Q9NVH6;Q9BV57;Q96KS0;O75164;O75151;Q9H6Z9;Q6NS38;O14832;Q9H6W
3;Q15652;Q9GZT9;Q9NXW9;O00625;Q96Q83;Q7LBC6;Q9UPP1;P18054;Q9NWT6;Q8NHM5}
524 Pathogen[ P03346] interacts with 20 human
partners:{Q7LBC6;Q9BV57;P18054;Q9NXW9;Q15652;O75151;P09917;O75164;Q9GZT9;Q9UPP1;Q96Q8
3;Q8N371;Q96KS0;B2RXH2;Q9UGL1;O00625;Q9NWT6;Q8NHM5;Q9H6W3;Q9H6Z9}
525 Pathogen[ Q85601] interacts with 18 human
partners:{Q9H6Z9;Q8N371;P09917;O75151;Q9NWT6;Q9BV57;Q9H6W3;Q9NXW9;Q9GZT9;Q96KS0;Q8NHM
5;Q9UPP1;Q6NS38;Q96Q83;O75164;O00625;Q15652;Q7LBC6}
526 Pathogen[ P14079] interacts with 31 human
partners:{O00625;P48775;Q9GZT9;O75151;Q9C0B1;Q96SZ5;Q8IVL6;Q9NXW9;Q6P6C2;Q93099;Q5SRE
7;Q9NVH6;Q8NHM5;Q15652;Q6N021;Q9H6W3;Q9UPP1;Q9NWT6;O14832;Q6NS38;Q3KRA9;Q9H6Z9;P09917
;Q16878;Q9BT30;Q8N371;Q96Q83;O43151;Q96KS0;Q9BV57;Q7LBC6}
527 Pathogen[ P03383] interacts with 13 human
partners:{Q9NWT6;O75151;Q96KS0;Q9H6W3;Q9BV57;O75164;Q15652;O00625;Q9H6Z9;Q8N371;Q96Q8
3;Q7LBC6;Q9UPP1}
528 Pathogen[ P03410] interacts with 28 human
partners:{Q3KRA9;Q9UPP1;Q9H6W3;Q6P6C2;Q9NWT6;Q15652;Q9NVH6;Q96KS0;Q9H6Z9;Q9NXW9;Q6N02
1;Q96Q83;Q6NS38;Q7LBC6;Q9GZT9;Q93099;O00625;O75151;P48775;O14832;O43151;Q9BT30;P09917
;Q9C0B1;Q8N371;O75164;Q9BV57;Q96SZ5}
529 Pathogen[ P14075] interacts with 17 human
partners:{Q9NVH6;Q96KS0;Q9GZT9;Q8N371;Q96Q83;Q9BV57;Q9UPP1;Q15652;Q7LBC6;O00625;Q9H6W
3;Q9NWT6;O14832;Q9NXW9;O75151;O75164;Q9H6Z9}
530 Pathogen[ P0C206] interacts with 22 human
partners:{Q8N371;Q96Q83;P09917;Q96KS0;Q9GZT9;O43151;Q3KRA9;Q6NS38;Q9UPP1;O14832;Q9NXW
9;Q9NVH6;Q7LBC6;O00625;O75151;Q9NWT6;Q9H6W3;Q8NHM5;Q9BV57;Q15652;Q9H6Z9;O75164}
531 Pathogen[ P03363] interacts with 6 human
partners:{Q9H6Z9;O75164;Q15652;Q96Q83;Q9BV57;O00625}
532 [Cluster 49]GO:0022857+F molecular_function [name] transmembrane transporter activity
[def] "Enables the transfer of a substance from one side of a membrane to the other."
[GOC
533 Pathogen[ Q2Q067] interacts with 3 human partners:{P11166;P14672;P24539}
534 Pathogen[ P0C214] interacts with 5 human
partners:{P36542;P11166;P11168;P24539;P14672}
535 Pathogen[ P03346] interacts with 3 human partners:{P24539;P11166;P14672}
536 Pathogen[ Q85601] interacts with 4 human partners:{P11168;P24539;P11166;P14672}
537 Pathogen[ P14079] interacts with 10 human
partners:{P36542;P56134;P25705;P14672;P56385;P11166;P03928;O75964;P56381;P24539}
538 Pathogen[ P03383] interacts with 5 human
partners:{P11168;P11169;P14672;P24539;P22732}
539 Pathogen[ P03410] interacts with 12 human
partners:{P22732;P36542;P11166;P25705;P11168;P56385;P56381;P03928;P24539;O75964;P1885
9;P56134}
540 Pathogen[ P14075] interacts with 6 human
partners:{P11169;P22732;P24539;P11168;P56385;P14672}
541 Pathogen[ P0C206] interacts with 7 human

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partners:{P36542;P11166;P11168;P24539;P14672;P56381;P56385}
542 Pathogen[ P03363] interacts with 2 human partners:{P14672;P11166}
543 [Cluster 50]GO:0033300+F molecular_function [name] dehydroascorbic acid transporter
activity [def] "Enables the directed movement of dehydroascorbate,
5-(1,2-dihydroxyethyl)furan-2,3,4(5H)-trione, into, out of or within a cell, or between
cells, by means of some agent such as a transporter or pore." [CHEBI
544 Pathogen[ Q2Q067] interacts with 1 human partners:{P11166}
545 Pathogen[ P0C214] interacts with 2 human partners:{P11166;P11168}
546 Pathogen[ P03346] interacts with 1 human partners:{P11166}
547 Pathogen[ Q85601] interacts with 2 human partners:{P11168;P11166}
548 Pathogen[ P14079] interacts with 1 human partners:{P11166}
549 Pathogen[ P03383] interacts with 1 human partners:{P11168}
550 Pathogen[ P03410] interacts with 2 human partners:{P11166;P11168}
551 Pathogen[ P14075] interacts with 1 human partners:{P11168}
552 Pathogen[ P0C206] interacts with 2 human partners:{P11166;P11168}
553 Pathogen[ P03363] interacts with 1 human partners:{P11166}
554 [Cluster 51]GO:0042974+F molecular_function [name] retinoic acid receptor binding
[def] "Interacting selectively and non-covalently with the retinoic acid receptor, a
ligand-regulated transcription factor belonging to the nuclear receptor superfamily."
[GOC
555 Pathogen[ Q2Q067] interacts with 16 human
partners:{P55345;Q5T3J3;P28702;P48552;O95521;Q5VWM6;Q5VWM5;Q5SWL7;Q15466;P78395;P1709
6;Q71SY5;O60810;O60809;O75376;Q8IXJ9}
556 Pathogen[ P0C214] interacts with 21 human
partners:{Q71SY5;Q5TYX0;Q5SWL7;P48552;A6NGN4;P17096;P78395;O60813;P55345;O60810;Q5VWM
6;Q5VTA0;Q8IXJ9;O75376;Q5VWM5;Q5T3J3;Q5SWL8;O95521;Q5VXH4;Q5VWM1;Q15466}
557 Pathogen[ P03346] interacts with 19 human
partners:{Q5VWM5;Q71SY5;Q15466;Q5T3J3;O60810;P17096;O60809;P28702;Q5VTA0;P78395;P5534
5;O75376;P48552;Q8IXJ9;Q5SWL8;O95521;Q5VWM1;Q5VWM6;Q5SWL7}
558 Pathogen[ Q85601] interacts with 22 human
partners:{P17096;Q15466;Q5VTA0;O60813;P28702;O60810;Q8IXJ9;Q5SWL7;Q5VXH4;Q71SY5;O7537
6;Q5TYX0;P48552;Q5VWM5;Q5T3J3;Q5SWL8;Q5VWM1;Q5VWM6;P78395;A6NGN4;Q5VT98;P55345}
559 Pathogen[ P14079] interacts with 33 human
partners:{P48552;O60811;A3QJZ6;Q8IXJ9;Q5VXH5;Q5T3J3;P17096;Q5SWL7;Q5VWM3;Q5VT98;A6NGN
4;Q5TYX0;P55345;Q5VWM6;A6NMV5;O95521;Q5VWM5;O95522;Q5VTA0;O60809;P28702;Q5VWM4;Q5SWL8
;Q71SY5;O60813;O75376;P78395;A6NMC2;Q5VXH4;Q15466;Q5VWM1;O60810;Q5TYW8}
560 Pathogen[ P03383] interacts with 18 human
partners:{Q8IXJ9;Q5TYX0;O60809;P17096;O75376;O60810;Q5SWL7;P78395;Q15466;P28702;O6081
3;Q5VXH4;Q71SY5;Q5VWM6;P48552;Q5VWM5;Q5T3J3;O95521}
561 Pathogen[ P03410] interacts with 33 human
partners:{Q5VWM4;Q5SWL7;Q5VXH5;Q5SWL8;A6NGN4;Q5TYW8;O60811;Q5T3J3;Q5VWM1;O60813;P1709
6;O60809;O75376;A3QJZ6;Q5VWM6;O95521;Q5VWM5;O60810;P78395;Q8IXJ9;Q5VT98;P28702;Q15466
;Q5VXH4;A6NMC2;O95522;A6NMV5;Q5VTA0;P48552;Q5TYX0;Q5VWM3;P55345;Q71SY5}
562 Pathogen[ P14075] interacts with 20 human
partners:{Q5VWM1;Q5SWL7;Q8IXJ9;O60809;P78395;Q5VXH4;P17096;O60813;O95521;O75376;Q5VWM
5;Q5TYX0;P28702;P48552;Q15466;O60810;Q5VWM6;Q71SY5;Q5T3J3;Q5VTA0}
563 Pathogen[ P0C206] interacts with 28 human
partners:{Q15466;A3QJZ6;Q5T3J3;Q5VXH4;P78395;Q5VWM5;O60813;Q5VWM3;A6NGN4;Q5TYX0;Q5TYW
8;A6NMV5;Q5VTA0;Q8IXJ9;Q5SWL7;Q5VT98;O75376;Q71SY5;P17096;O95521;P28702;Q5VWM1;O60810
;O60809;Q5VWM6;P55345;P48552;Q5SWL8}
564 Pathogen[ P03363] interacts with 18 human
partners:{Q8IXJ9;O60809;Q15466;Q71SY5;O75376;P78395;O60813;P48552;P28702;P17096;Q5SWL
7;Q5VWM6;Q5VXH4;O60810;Q5T3J3;O95521;Q5VWM5;Q5TYX0}
565 [Cluster 52]GO:0008534+F molecular_function [name] oxidized purine base lesion DNA
N-glycosylase activity [def] "Catalysis of the removal of oxidized purine bases by
cleaving the N-C1' glycosidic bond between the oxidized purine and the deoxyribose sugar.
The reaction involves the formation of a covalent enzyme-substrate intermediate. Release
of the enzyme and free base by a beta-elimination or a beta, gamma-elimination mechanism
results in the cleavage of the DNA backbone 3' of the apurinic (AP) site." [GOC
566 Pathogen[ Q2Q067] interacts with 1 human partners:{O15527}
567 Pathogen[ P0C214] interacts with 1 human partners:{O15527}
568 Pathogen[ P03346] interacts with 1 human partners:{O15527}
569 Pathogen[ Q85601] interacts with 1 human partners:{O15527}
570 Pathogen[ P14079] interacts with 1 human partners:{O15527}
571 Pathogen[ P03383] interacts with 1 human partners:{O15527}
572 Pathogen[ P03410] interacts with 1 human partners:{O15527}
573 Pathogen[ P14075] interacts with 1 human partners:{O15527}
574 Pathogen[ P0C206] interacts with 1 human partners:{O15527}
575 Pathogen[ P03363] interacts with 1 human partners:{O15527}
576 [Cluster 53]GO:0003696+F molecular_function [name] satellite DNA binding [def]
"Interacting selectively and non-covalently with satellite DNA, the many tandem repeats
(identical or related) of a short basic repeating unit_ many have a base composition or
other property different from the genome average that allows them to be separated from
the bulk (main band) genomic DNA." [GOC
577 Pathogen[ Q2Q067] interacts with 4 human partners:{Q9UBB5;O95243;Q9UHC1;P07199}
578 Pathogen[ P0C214] interacts with 4 human partners:{O95243;P07199;Q9UHC1;Q9UBB5}
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579 Pathogen[ P03346] interacts with 4 human partners: {Q9UHC1;O95243;P07199;Q9UBB5}  
580 Pathogen[ Q85601] interacts with 4 human partners: {O95243;P07199;Q9UHC1;Q9UBB5}  
581 Pathogen[ P14079] interacts with 4 human partners: {P07199;Q9UBB5;Q9UHC1;O95243}  
582 Pathogen[ P03383] interacts with 4 human partners: {Q9UHC1;Q9UBB5;O95243;P07199}  
583 Pathogen[ P03410] interacts with 4 human partners: {Q9UBB5;O95243;P07199;Q9UHC1}  
584 Pathogen[ P14075] interacts with 4 human partners: {P07199;Q9UBB5;Q9UHC1;O95243}  
585 Pathogen[ P0C206] interacts with 4 human partners: {Q9UBB5;Q9UHC1;P07199;O95243}  
586 Pathogen[ P03363] interacts with 4 human partners: {Q9UHC1;P07199;O95243;Q9UBB5}  
587 [Cluster 54]GO:0070644+F molecular\_function [name] vitamin D response element binding  
[def] "Interacting selectively and non-covalently with the vitamin D response element  
(VDRE), a short sequence with dyad symmetry found in the promoters of some of the  
cellular immediate-early genes, regulated by serum." [GOC  
588 Pathogen[ Q2Q067] interacts with 2 human partners: {P11473;P15923}  
589 Pathogen[ P0C214] interacts with 1 human partners: {P15923}  
590 Pathogen[ P03346] interacts with 2 human partners: {P11473;P15923}  
591 Pathogen[ Q85601] interacts with 2 human partners: {P11473;P15923}  
592 Pathogen[ P14079] interacts with 2 human partners: {P11473;P15923}  
593 Pathogen[ P03383] interacts with 2 human partners: {P15923;P11473}  
594 Pathogen[ P03410] interacts with 2 human partners: {P15923;P11473}  
595 Pathogen[ P14075] interacts with 2 human partners: {P15923;P11473}  
596 Pathogen[ P0C206] interacts with 2 human partners: {P15923;P11473}  
597 Pathogen[ P03363] interacts with 2 human partners: {P11473;P15923}  
598 [Cluster 55]GO:0003963+F molecular\_function [name] RNA-3'-phosphate cyclase activity  
[def] "Catalysis of the reaction  
599 Pathogen[ Q2Q067] interacts with 1 human partners: {Q9Y2P8}  
600 Pathogen[ P0C214] interacts with 2 human partners: {Q9Y2P8;O00442}  
601 Pathogen[ P03346] interacts with 1 human partners: {Q9Y2P8}  
602 Pathogen[ Q85601] interacts with 1 human partners: {Q9Y2P8}  
603 Pathogen[ P14079] interacts with 2 human partners: {O00442;Q9Y2P8}  
604 Pathogen[ P03383] interacts with 1 human partners: {Q9Y2P8}  
605 Pathogen[ P03410] interacts with 2 human partners: {O00442;Q9Y2P8}  
606 Pathogen[ P14075] interacts with 1 human partners: {Q9Y2P8}  
607 Pathogen[ P0C206] interacts with 1 human partners: {Q9Y2P8}  
608 Pathogen[ P03363] interacts with 1 human partners: {Q9Y2P8}  
609 [Cluster 56]GO:0004865+F molecular\_function [name] protein serine/threonine  
phosphatase inhibitor activity [def] "Stops, prevents or reduces the activity of a  
serine/threonine protein phosphatase, an enzyme that catalyzes the reaction  
610 Pathogen[ Q2Q067] interacts with 3 human partners: {P41236;Q13522;Q12972}  
611 Pathogen[ P0C214] interacts with 3 human partners: {P41236;Q13522;Q12972}  
612 Pathogen[ P03346] interacts with 3 human partners: {Q13522;P41236;Q12972}  
613 Pathogen[ Q85601] interacts with 2 human partners: {Q12972;P41236}  
614 Pathogen[ P14079] interacts with 5 human  
partners: {Q13522;P41236;Q12972;Q8TAE6;O96001}  
615 Pathogen[ P03383] interacts with 3 human partners: {Q12972;Q13522;P41236}  
616 Pathogen[ P03410] interacts with 5 human  
partners: {P41236;Q13522;Q8TAE6;Q12972;O96001}  
617 Pathogen[ P14075] interacts with 4 human partners: {Q13522;P41236;Q8TAE6;Q12972}  
618 Pathogen[ P0C206] interacts with 4 human partners: {P41236;Q8TAE6;Q13522;Q12972}  
619 Pathogen[ P03363] interacts with 3 human partners: {Q12972;P41236;Q13522}  
620 [Cluster 57]GO:0008233+F molecular\_function [name] peptidase activity [def]  
"Catalysis of the hydrolysis of a peptide bond. A peptide bond is a covalent bond formed  
when the carbon atom from the carboxyl group of one amino acid shares electrons with the  
nitrogen atom from the amino group of a second amino acid." [GOC  
621 Pathogen[ Q2Q067] interacts with 41 human  
partners: {Q9Y5K5;P54252;P40306;Q93009;O00303;Q9Y4P1;Q6ICB0;Q14674;Q99497;Q9UDY8;P2807  
2;A5LHX3;P25787;Q92905;Q14790;Q9GZR1;P28065;O14818;P60896;P60900;P55212;Q86T82;P28062  
;P25788;P42575;P25786;P28074;P25789;Q93008;P28838;Q9HC62;P20618;P48147;P28070;P28066;  
Q99436;Q8TAA3;P49721;P49720;Q13867;Q96HI0}  
622 Pathogen[ P0C214] interacts with 45 human  
partners: {P25789;Q96HI0;P28062;A5LHX3;P28838;Q16740;P28065;P55212;O14818;Q9UDY8;Q1386  
7;Q92560;Q9Y4P1;P40306;Q99497;P48147;Q93008;Q9Y5K5;P28066;O00303;Q92905;Q6ICB0;P49720  
;P28074;P25788;P42574;Q93009;P25786;P28072;Q8TAA3;Q99436;P25787;Q9GZR1;Q9HC62;P60900;  
P55210;Q9H3M9;Q9NY33;P28070;P42575;P54252;P20618;P49721;Q14790;Q14674}  
623 Pathogen[ P03346] interacts with 58 human  
partners: {P25787;Q9BXU7;P63119;P28070;Q93009;Q9GZR1;P25789;Q92560;Q9Y4P1;Q6ICB0;Q9H3M  
9;Q93008;P28072;P25788;P28074;P49721;Q9UDY8;P42575;O14818;Q99436;A5LHX3;P28062;O95630  
;P42574;P20618;P55212;Q86T82;O00303;Q9UHP3;Q14694;P10144;P51784;P49720;P28065;Q86UV5;  
P60900;O75604;P25786;Q99497;P28066;Q92905;Q13867;Q8TAA3;P55211;Q14790;Q9HC62;P48147;P  
55210;Q96HI0;Q96FW1;Q6GQQ9;O94782;P60896;Q14674;Q9Y5K5;Q9H0E7;P40306;P54252}  
624 Pathogen[ Q85601] interacts with 47 human  
partners: {P10144;P28066;P60900;Q99497;Q9Y5T5;Q9H0E7;Q93009;P25787;P25788;Q9UDY8;Q1479  
0;Q92560;Q9Y4P1;Q9HC62;Q9H3M9;O00303;Q14674;P48147;Q13867;Q93008;P54252;P25789;P20618  
;Q6ICB0;P40306;P49720;Q9NQC7;P42575;P28062;P49721;Q92905;Q9Y5K5;P25786;P28072;P28065;  
O95630;Q99436;P28070;Q86T82;Q8TAA3;Q96HI0;P28074;P55212;A5LHX3;O14818;Q9GZR1;P55210}  
625 Pathogen[ P14079] interacts with 62 human  
partners: {P28838;P28065;Q99436;O14773;Q96KR4;Q96KP4;Q9NUQ7;Q6ICB0;O00303;Q9H3M9;Q96HI

0;P40306;Q92542;P28074;Q8NDH3;P48147;P54252;Q99497;P49720;O00487;Q86TL0;P25787;Q9NXJ5;Q96MI9;Q9UPW5;P29144;A5LHX3;Q14674;Q16740;Q4J6C6;Q9Y4P1;P55212;P20618;Q8TAA3;Q9Y5K5;Q9HC62;Q14790;P28062;P60900;P55210;Q92560;Q13867;Q9NY33;Q400G9;Q8NDL9;O14818;P49721;Q92905;Q9H6P5;Q8WW43;Q5W0Q7;A6NFU8;P42575;P25788;P28066;Q9GZR1;Q9BSY9;Q9NQC7;Q9H300;P10144;Q96FW1;P28072}

626 Pathogen[ P03383] interacts with 33 human  
partners: {P55212;P25789;P60900;P40306;Q92905;Q9Y4P1;P28838;P49721;P20618;P48147;P54252;Q14674;Q96HI0;Q6ICB0;Q13867;P25786;Q9Y5K5;P28072;P28065;P28066;Q9HC62;Q9H3M9;P28074;P49720;Q8TAA3;P28062;P60896;O14818;Q99436;P28070;Q9GZR1;P25787;P25788}

627 Pathogen[ P03410] interacts with 53 human  
partners: {Q400G9;Q96FW1;Q9H3M9;P28070;P10144;Q99497;Q9UPW5;P25786;Q8NDH3;Q9Y4P1;P60900;P42575;P48147;Q92905;Q13867;Q96HI0;Q8TAA3;P49721;P54252;Q9GZR1;A5LHX3;Q14674;Q99436;P28838;Q9NXJ5;P40306;Q86TL0;Q96KR4;P25787;Q9HC62;Q6ICB0;P60896;P28062;O14818;A6NFU8;O00303;P25789;P49720;Q8WW43;Q9Y5K5;Q92542;Q9H6P5;P28072;Q9NY33;P25788;Q16740;P55212;P28066;P28065;P20618;Q9BSY9;P28074;P55210}

628 Pathogen[ P14075] interacts with 33 human  
partners: {P25788;P28066;Q8TAA3;P60900;P55212;P49720;Q9Y4P1;Q96FW1;P28070;P49721;P54252;Q6ICB0;Q96HI0;P28062;P28074;P28065;Q9HC62;P25786;O14818;P28072;Q13867;P60896;P25787;Q14674;Q9H3M9;P20618;Q92905;P40306;P28838;Q99436;Q9GZR1;Q9Y5K5;P25789}

629 Pathogen[ P0C206] interacts with 65 human  
partners: {Q9NQC7;Q99436;P28062;P10144;P40306;P28065;Q9NXJ5;Q96KR4;Q9UDY8;P25786;Q9Y5T5;P25788;Q93008;P29144;Q8NDL9;Q96HI0;Q9Y4P1;P25787;P48147;O75604;P49720;O95630;Q9HC62;P28838;P55212;P60900;Q93009;Q92542;Q99497;Q6ICB0;P54252;Q9H0E7;A5LHX3;Q9Y5K5;P25789;Q13867;Q9GZR1;Q9BSY9;Q9H3M9;P20618;Q8TAA3;P28070;Q96FW1;Q16740;Q9NY33;Q14790;P28066;Q86T82;Q6GQQ9;P42574;O14818;Q8NDH3;P28072;Q9UHP3;Q14674;Q86TL0;P28074;P42575;P49721;Q9UPW5;P55210;O00303;P60896;Q92560;Q92905}

630 Pathogen[ P03363] interacts with 31 human  
partners: {P63131;P63119;Q9Y5K5;P10265;P51784;Q6GQQ9;P60896;Q9UHP3;O75604;P63121;P54252;Q9Y6I0;P10144;Q13867;Q92560;P55212;P63124;Q9HC62;Q86T82;Q14674;Q9BXU7;Q96HI0;P55210;Q9Y4P1;Q9GZR1;Q6ICB0;P63129;Q93008;Q92905;Q96FW1;O00303}

631 [Cluster 58]GO:0070403+F molecular\_function [name] NAD+ binding [def] "Interacting selectively and non-covalently with the oxidized form, NAD, of nicotinamide adenine dinucleotide, a coenzyme involved in many redox and biosynthetic reactions." [GOC

632 Pathogen[ Q2Q067] interacts with 6 human  
partners: {Q8IXJ6;Q9Y6E7;Q9NTG7;Q8N6T7;Q16836;Q9NRC8}

633 Pathogen[ P0C214] interacts with 6 human  
partners: {Q9Y2S2;Q9NTG7;Q8N6T7;Q8IXJ6;Q9NRC8;Q9Y6E7}

634 Pathogen[ P03346] interacts with 6 human  
partners: {Q16836;Q8IXJ6;Q9Y6E7;Q8N6T7;Q9NTG7;Q9NRC8}

635 Pathogen[ Q85601] interacts with 6 human  
partners: {Q9NRC8;Q9Y6E7;Q8IXJ6;Q8N6T7;Q16836;Q9NTG7}

636 Pathogen[ P14079] interacts with 5 human  
partners: {Q8N6T7;Q8IXJ6;Q9NRC8;Q9NTG7;Q16836}

637 Pathogen[ P03383] interacts with 5 human  
partners: {Q8N6T7;Q16836;Q9NTG7;Q9Y6E7;Q9NRC8}

638 Pathogen[ P03410] interacts with 5 human  
partners: {Q8IXJ6;Q9NTG7;Q8N6T7;Q16836;Q9NRC8}

639 Pathogen[ P14075] interacts with 5 human  
partners: {Q8N6T7;Q9Y6E7;Q9NTG7;Q16836;Q9NRC8}

640 Pathogen[ P0C206] interacts with 6 human  
partners: {Q16836;Q8N6T7;Q9NRC8;Q8IXJ6;Q9NTG7;Q9Y6E7}

641 Pathogen[ P03363] interacts with 5 human  
partners: {Q9Y6E7;Q16836;Q8N6T7;Q9NTG7;Q9NRC8}

642 [Cluster 59]GO:0008080+F molecular\_function [name] N-acetyltransferase activity [def] "Catalysis of the transfer of an acetyl group to a nitrogen atom on the acceptor molecule." [GOC

643 Pathogen[ Q2Q067] interacts with 11 human  
partners: {Q9H9T3;Q93015;Q9GZZ1;Q9BSU3;Q9H8E8;Q92831;Q969G3;P41227;Q92830;P21673;Q9BXJ9}

644 Pathogen[ P0C214] interacts with 15 human  
partners: {P41227;Q93015;Q9BSU3;Q16613;Q9GZZ1;Q969G3;Q9H0A0;Q9BXJ9;Q9H9T3;Q92831;Q92830;P21673;Q96EK6;Q8N159;Q9H8E8}

645 Pathogen[ P03346] interacts with 12 human  
partners: {Q9BSU3;Q93015;Q9H8E8;P21673;Q92831;Q92830;P41227;Q9H9T3;Q9BXJ9;Q969G3;Q8WUY8;Q9GZZ1}

646 Pathogen[ Q85601] interacts with 13 human  
partners: {Q9GZZ1;Q93015;Q9H9T3;Q16613;P21673;Q92831;Q92830;P41227;Q969G3;Q9H8E8;Q9BXJ9;Q96EK6;Q9BSU3}

647 Pathogen[ P14079] interacts with 17 human  
partners: {Q8N159;P41227;Q86UY6;Q9H0A0;Q92830;Q9BXJ9;Q9H8E8;Q9BTE0;Q16613;Q9BSU3;Q9H9T3;Q9GZZ1;Q8N8M0;Q93015;Q8WUY8;Q96EK6;P21673}

648 Pathogen[ P03383] interacts with 15 human  
partners: {Q92831;Q9GZZ1;Q93015;P41227;Q16613;Q9BSU3;Q969G3;Q9BXJ9;Q8N159;Q9H8E8;Q92830;Q8WUY8;Q9H0A0;P21673;Q9H9T3}

649 Pathogen[ P03410] interacts with 19 human  
partners: {Q92830;Q92831;Q9BSU3;Q9GZZ1;Q93015;Q8N159;Q9H0A0;Q96EK6;Q9H9T3;P41227;Q969G3



3;Q86UY6;Q8N8M0;Q16613;P21673;Q9H8E8;Q8WUY8;Q9BTE0;Q9BXJ9}  
650 Pathogen[ P14075] interacts with 15 human  
partners:{P41227;Q92831;Q93015;Q9BXJ9;Q9BSU3;Q8N159;Q16613;Q9H0A0;Q9H8E8;Q8WUY8;Q9H9T  
3;Q9GZZ1;P21673;Q96EK6;Q92830}  
651 Pathogen[ P0C206] interacts with 15 human  
partners:{Q92830;Q9GZZ1;Q9H9T3;P41227;Q92831;Q8N159;P21673;Q93015;Q8WUY8;Q96EK6;Q9BSU  
3;Q969G3;Q16613;Q9BXJ9;Q9H0A0}  
652 Pathogen[ P03363] interacts with 11 human  
partners:{P41227;Q9H8E8;Q92831;P21673;Q93015;Q9BSU3;Q92830;Q969G3;Q9GZZ1;Q9H9T3;Q9BXJ  
9}  
653 [Cluster 60]GO:000309+F molecular\_function [name] nicotinamide-nucleotide  
adenyltransferase activity [def] "Catalysis of the reaction  
654 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9HAN9}  
655 Pathogen[ P0C214] interacts with 3 human partners:{Q96T66;Q9HAN9;Q9BZQ4}  
656 Pathogen[ P03346] interacts with 1 human partners:{Q9HAN9}  
657 Pathogen[ Q85601] interacts with 1 human partners:{Q9HAN9}  
658 Pathogen[ P14079] interacts with 2 human partners:{Q9BZQ4;Q9HAN9}  
659 Pathogen[ P03383] interacts with 1 human partners:{Q9HAN9}  
660 Pathogen[ P03410] interacts with 2 human partners:{Q9HAN9;Q9BZQ4}  
661 Pathogen[ P14075] interacts with 1 human partners:{Q9HAN9}  
662 Pathogen[ P0C206] interacts with 2 human partners:{Q9BZQ4;Q9HAN9}  
663 Pathogen[ P03363] interacts with 1 human partners:{Q9HAN9}  
664 [Cluster 61]GO:0003677+F molecular\_function [name] DNA binding [def] "Any molecular  
function by which a gene product interacts selectively with DNA (deoxyribonucleic acid)."  
[GOC  
665 Pathogen[ Q2Q067] interacts with 1331 human  
partners:{Q13562;Q0D2J5;Q12901;P05204;O60806;Q9HC78;Q09FC8;Q9Y253;Q9H4I2;Q9UM63;Q9290  
0;Q96SQ5;Q9Y473;Q9BYE7;Q14526;Q9NWS1;Q9UNN4;Q8N859;O43365;O95602;P52742;Q15573;Q9BRH9  
;Q9UKI9;Q8NG57;Q96N77;Q14151;Q12905;Q9NZI7;P27540;P17544;Q13118;P25490;Q33E94;Q92750;  
P01100;Q03989;P22392;Q9UK13;P35789;Q6V9R5;Q8NA42;Q9Y6X8;Q92988;Q9H2G9;Q96FV9;O43167;Q  
2M218;Q04864;P81877;Q9UHL9;Q9UJN7;O00411;Q96MW7;P0C1Z6;Q16236;Q03923;Q9Y2S7;Q9Y2M0;Q9  
UEG4;P62633;Q9BUG6;P18754;Q96S65;A6NDX5;O43364;Q8NEM1;O15525;Q6NVH7;Q9UC06;Q99583;Q2K  
HR2;Q8IX15;Q9NRF9;Q12837;Q9H7X3;Q9UPN9;Q9Y5Q3;Q03052;O75461;P56524;Q9UK11;P17029;P527  
38;Q9ULX6;Q10587;A8MTY0;A0AVK6;Q15631;Q8N228;Q9UMS5;Q9H7R0;Q96PE6;A6NFQ7;Q8IZ26;Q7Z35  
3;Q9HBZ2;Q9BRRO;P10827;A6NJL1;P04198;P15884;P20226;O43361;A9UHW6;P10243;Q9Y462;P09067  
;Q96NI8;Q16594;Q9UGU0;O75925;Q92922;Q6NUN9;P55895;Q9UJL9;Q9UQ80;Q9NS56;O60304;P55265;  
P23511;P24278;P49790;Q8NEP9;Q96E14;Q05066;Q6ZQV5;Q9HBE1;Q06416;Q63HK5;P0CJ88;Q99081;Q  
8NOY2;Q9Y2D1;Q92664;Q5VTD9;Q15928;Q96K75;Q12888;Q9H175;Q6XD76;O00470;Q9UBX2;Q92889;Q1  
3887;P06400;Q8TA94;Q6ZN32;Q9H9T3;O75534;Q8WYA1;Q8IZH2;Q96I24;P29374;P42167;Q86YE8;P27  
694;Q08AN1;P49959;Q01094;P58317;Q8IYF1;Q8WV38;Q08999;Q6ZMY9;P40763;P78424;Q8N8Z8;P149  
21;Q5VZB9;Q6ZS27;Q9NYB0;A6NP11;Q9UL59;O15226;Q8N4W9;Q53EQ6;P01106;Q9H2P0;Q13148;P1007  
3;O14503;Q9HAZ2;P36402;Q16666;Q15910;Q9NR55;Q16533;O60481;P67809;O95402;Q13485;Q5SXM1  
;Q01543;O00287;Q6IV72;A8MVS1;Q9HAJ7;P10589;Q8N2I2;Q7Z6K1;Q6ECI4;Q9UC07;P35680;Q14549;  
Q9P0U4;Q9H9D4;Q12986;Q9NR48;P31274;P13056;Q8IXK0;P31268;Q6ZT77;Q8IUE1;Q9UHF7;Q99816;P  
62508;Q9ULD5;P51508;Q9UBB5;Q14590;P48380;Q8WVM0;O14813;Q9NTW7;Q9Y606;Q16656;Q9Y2Y9;Q9  
6NG8;P35712;Q6ZN06;Q15233;P41182;Q9Y2X9;P19474;Q15554;Q9H5H4;P10828;Q96AE4;Q15562;Q9H  
074;Q01664;P55197;Q8NBB4;O00570;Q9GZS1;Q8N3X6;P82979;Q96H40;P49910;Q8N5U6;Q15326;Q9NZ  
V7;Q96IS3;O95243;P18847;Q9UHX1;P0CJ87;P51531;Q9NPG3;Q99708;Q8N9N5;P49716;P41970;Q6P2D  
0;Q9HCL3;Q9ZU7Q;Q8WXF8;Q9Y5Q8;Q8TD23;Q9BW11;Q9NQ87;P13349;Q96SK3;Q96IT1;Q147U1;Q15697  
;Q96LW1;Q9NZL3;Q6VUC0;Q96004;Q92985;Q9UL49;Q7Z6R9;Q96AV8;Q8HWS3;Q7L2R6;P08151;Q9BZ3;Q96006;  
Q01196;Q00613;Q9H211;Q99676;O75478;Q01105;Q96T88;P19388;P37275;Q8IYW8;Q5SXM2;Q05516;Q  
32MZ4;P20749;Q05481;Q5EE01;Q02930;Q9HD15;P54274;Q9Y6K1;P52435;Q8NCK3;Q8NDW4;Q8NDF8;Q9  
BSI4;O75820;Q9NZI6;P49116;P10074;Q7Z2E3;O60315;Q04206;Q99551;P11387;Q8WYP5;Q9P0L1;P12  
980;Q14119;P50548;Q9H4Z2;Q6P9A1;Q96MA1;Q16633;Q9ULV5;Q8IXT2;Q96PQ6;Q8N782;Q969S2;Q96N  
L3;Q96B01;Q4W5G0;Q8WTR7;Q6P1N0;Q9NPF6;Q05195;Q8TAW3;Q96AV8;Q9BXX3;P51815;P14373;Q1410  
3;Q9UIS9;O00712;Q9NZI5;Q8TF20;Q01201;Q9HB58;Q6ZR52;Q99684;P52741;Q9UDV7;P49450;Q14814  
;P39880;P18850;Q8TF68;Q3KQV3;P50549;Q99594;Q8N2Z9;O94983;Q8IUE0;Q9P255;A6H8Y1;Q8NC26;  
P17483;P14316;A8MT69;O43296;O94776;Q9H4T2;O15379;O15266;P36956;A6NFD8;O95948;O14709;P  
41161;Q08ER8;P0C7M4;O60535;Q9UKN8;Q5T5D7;Q9BWW4;Q9H171;P57723;Q9NQX1;Q7Z5D8;Q03188;Q9  
Y5R5;P05114;Q690318;Q96S55;Q6ZMW2;Q9UNA4;P30876;P19387;Q4LE39;Q16520;P15976;Q9BWX5;Q9H  
307;O75586;Q8N196;Q2M3W8;Q15542;O14686;O15535;Q6MZP7;Q6S96;Q4VC44;Q03933;P28356;Q927  
54;O94842;Q9HC44;Q96ST3;O14628;Q8TBC5;P61218;Q96RK0;Q9Y237;O15350;Q6ZSS3;Q6ZRS2;P3563  
8;Q96AH0;Q92945;Q9UFW8;Q96ST2;Q6ISB3;Q02447;P52594;Q9NSD4;Q16534;Q2M1K9;Q96T58;Q8WY36  
;Q8N1L9;Q96S8;O14896;Q9Y534;P41218;O75683;P17030;Q14934;Q86WP2;P17031;Q7Z340;P42704;  
Q86UE3;P09086;Q9H668;O75362;Q96N95;Q9Y5A6;Q9UB29;Q92547;Q8TF47;Q86YC2;P17036;P49005;O  
94993;Q9ULJ3;Q13415;Q8TBE0;P17040;Q15560;P17676;Q16531;P17482;P17010;O95625;P11308;P1  
7038;Q8N5Y2;Q9Y4Z2;Q9UK12;Q8WYN3;P38935;Q8NDY6;E9PGG2;Q9NYF8;P08047;Q8TC21;P11473;Q7R  
TU5;Q00978;Q96C28;O75928;Q96RJ6;Q13342;O43829;P16415;Q8NHM5;Q86Y25;Q9BQ15;Q9H9Y6;Q018  
92;Q8N3S3;Q7Z6Z7;P09017;Q8N184;Q96N66;P22670;O60563;O95416;Q9NV11;O43542;Q13129;Q8N72  
6;P11831;P20265;O75531;Q7Z3V5;P15172;Q06609;P0C7T5;Q3SXZ3;O43248;Q6NT76;P57721;Q9H9Q4  
;P28702;Q9UFB7;Q6IQ21;Q00577;Q13398;Q53GI3;Q96PT3;Q96MR9;P48378;Q15561;Q96BV0;O75446;  
P11388;P35227;A8MT65;A6NK53;Q86TJ2;P28069;Q9BUY5;O60663;Q9UKW6;Q96QC0;Q15424;P78545;B  
2RXF5;Q9N3J9;Q9Y2P0;P09629;Q9NS37;Q9BQG0;Q9Y2H8;Q9UQR0;P52743;P58340;Q499Z4;P54845;Q1  
5937;Q9Y4A8;Q9BXG8;Q00444;Q6ZVD7;P27695;Q15723;Q9UBC3;Q15744;Q8N7G0;Q08050;Q9UHK0;Q6  
EA5;O15405;P61978;O43823;Q9Y5B6;O95163;Q9UKL0;Q14765;Q9HAU5;P29084;Q68DY1;Q7RTV3;Q129  
72;P27797;P12004;Q00059;O43524;Q14181;P53999;Q96G23;Q9HCG1;O43502;O43593;Q9ULW3;P0674

6;Q6P280;Q9BUI4;O95159;Q8TAU3;Q8N5J4;Q9UL58;Q13469;P52747;P78412;Q96SR6;P55347;Q9UHI6  
;A6NLW8;P78317;Q14929;Q5T619;P23769;P29372;P54253;Q14593;Q15929;P35548;Q4G112;Q8TB69;  
Q99743;P20719;Q15072;Q15935;P15036;Q96C00;Q9BYK8;Q8IYB3;Q8IVP9;P51826;Q14186;Q63HK3;Q  
99608;P40426;O75717;Q59GR2;Q15699;Q9UII5;Q12800;A8MZ59;O60828;Q8NE65;A8MUV8;Q96KR1;Q9  
P243;Q9ULM2;Q15047;Q14938;Q9BQ70;O43310;Q96N38;A8MWA4;Q5SVQ8;Q9BTC8;A8MQ14;P56693;A4G  
XA9;Q96BT3;Q8N7R8;Q96CX3;Q9BTP7;O14867;P25791;P17032;P19532;Q96BD5;Q6P9G9;P26358;Q9UL  
X9;Q9Y2T7;O75610;P15621;Q14585;O43711;Q9NQX6;P17022;Q9H5J8;Q07666;Q14653;Q68DI1;P5150  
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666

Pathogen[ P0C214] interacts with 1336 human

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Pathogen[ P03346] interacts with 1822 human

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Pathogen[Q85601] interacts with 1486 human

partners: {P43351;Q53EQ6;Q9UQR1;Q9HCZ1;Q8N8C0;Q9Y534;Q03701;Q9ULM2;Q9HCG1;Q9UBZ4;Q9UNN4;O95619;Q8IXK0;P01106;Q9P2R6;Q3KNS6;Q92618;P18146;Q494X3;P10243;P17480;O75373;Q8N3X6;Q8N1G0;Q9ULW3;Q68CJ9;Q8N196;P08048;O95625;Q99816;Q6NX45;Q9UPN9;P78317;Q8NI51;Q99543;Q8IXT2;Q9Y250;Q03989;Q14978;P17097;P51786;Q8TE85;Q969J2;Q8N9K5;P78424;Q15542;Q9UHL9;Q32M78;P28698;Q8IZC7;Q92664;P49639;P15621;Q9NWS1;P09629;Q63HK3;Q4VC44;P61978;P51815;Q9Y2M0;Q9UHF7;Q96S65;P36954;Q6ZR52;Q8N5Y2;Q9NQX6;Q7Z5D8;Q96QR8;P08151;Q86W11;Q8NA42;P11831;Q9Y2T7;Q14929;Q4LE39;Q15853;Q8TF39;Q9HBT8;Q9UPG8;O14896;Q02078;P17676;P15036;Q16666;P09874;O60481;Q14593;P62633;O75360;P17040;Q6ZN11;P11473;O95602;Q2VY69;Q3MJ62;Q8N720;Q86XU0;Q92614;Q06455;Q96SZ4;Q9UNY5;P25208;Q14586;Q96MA1;O14529;O15535;O43502;O15499;Q9NPA5;O15315;Q9UJW8;P33076;Q9BT49;Q8NBB4;Q6VUC0;Q96JB3;Q9UKL3;A6NHJ4;Q9UJL3;Q13127;Q9NS56;P14373;O43316;Q9H707;Q2M3X9;Q8IUE1;P23025;Q96MX3;Q16236;Q6V9R5;Q5EBL2;O75928;Q7Z340;P14316;Q9BTP7;Q6ZM17;P17096;Q96SR6;Q5JNZ3;Q96ND8;O95831;Q6PG37;Q96K62;Q8IYB3;O14813;Q9Y4Z2;Q96EK4;Q14765;Q01831;Q5TYW1;A6NFI3;Q9Y2S7;Q7Z591;Q8N228;Q07666;Q9UC07;Q03188;Q96CS4;Q9H1D9;Q92754;Q02556;P17028;P51522;O60563;Q8N7M2;Q9P0W2;Q969W8;Q9NUA8;Q8TD2;Q9BWX5;A6NKJ5;Q01538;Q6ZYL4;P0CB33;Q99687;Q9P2K5;Q9ULD5;P09086;P21506;Q6XYB7;Q15466;Q01892;Q9UPW6;A6NJ46;Q96AH0;Q9UQ80;P50539;Q12901;Q08999;P56270;Q9H8G1;P15976;Q9BQG0;Q3SXZ3;Q8IYD8;Q96SC8;Q9BWH6;Q9UL59;O94776;Q5C9Z4;Q2KHR2;Q9UQ84;Q7RTV0;Q7L945;Q9C0G0;P19484;P50750;P17019;Q96NG8;Q14202;P15172;Q92547;Q9H040;Q5HY98;A6NNA5;Q96BD5;P14921;Q6B0B8;Q969S2;Q9ULV5;Q6P1L6;Q03052;Q8N8L2;Q6ZN75;Q96BR6;Q6ZMS7;Q96HQ0;Q96JM2;Q9Y2N7;Q86WV5;Q9NPG3;P86452;Q8NB12;P13682;P08651;Q9UIF9;Q3L8U1;Q86V15;Q96JF6;Q8TBE0;O75398;P17032;Q16656;Q6PF04;Q9UL58;P17036;Q6DD87;Q9HCL3;Q86U70;Q06546;Q9Y2L8;Q9P2D1;P50548;Q9Y603;Q15329;Q8WW38;Q16531;Q8TAQ5;Q02386;Q0VGG9;Q86YE8;Q9H307;Q15554;Q9BYN7;Q8NAP3;Q14549;Q9HBT7;Q5FWF6;P56282;A6NDR6;Q9Y606;Q12857;Q16621;Q8IYNO;Q7Z398;P17020;P06400;P0CJ87;Q06330;P48378;Q9Y3C5;Q96BV0;Q13360;Q8N7R0;B4DXR9;Q9H5L6;P38935;P53567;Q96LX8;BLAPH4;Q8TD23;Q8N8J6;P13349;A8MWA4;Q9BR84;Q6ZNG0;Q9Y2Y9;P12980;Q14103;P54845;Q14966;Q9Y535;Q13148;P15622;P50549;Q96H40;Q2M3W8;P14653;Q8N7U7;Q7Z6R9;Q9BZE3;O43248;O60315;Q96BT3;P16455;Q14587;Q03933;A2RRD8;Q8NDY6;Q8NHY6;P17027;Q01105;Q9BUI4;Q9H9T3;A8MUV8;Q9NR11;Q03936;Q08AG5;Q9Y2Y1;Q9H116;Q13951;Q2M1K9;Q5EE01;Q6ZN79;Q9Y651;Q15424;P51826;Q9NWS9;Q8N680;O75030;Q9NR48;P15822;Q07352;A8MV51;Q33E94;P15407;Q8N7G0;Q8WYP5;Q14872;Q8NDW4;Q9UKN5;Q99708;P18848;Q6NSZ9;A4GXA9;Q14814;Q9UDV6;Q13129;P19419;P40763;Q05195;Q8N3S3;Q9NWB7;O14978;Q13426;P28702;Q14241;Q03112;Q9UMS4;Q49AN0;P28069;P17030;P32519;P14859;O60663;P52740;Q96KM6;Q6ZMY9;Q8TF20;P23769;Q6NVH7;P41970;Q9BUG6;Q9HC44;Q13415;Q15573;Q9Y2Y4;Q9Y5N6;Q95789;Q9NR83;O15015;Q9H609;O15516;P78545;Q86WP2;O75437;Q13106;Q9Y2X9;Q9UHX1;Q9UKK3;Q86WZ6;Q6NUN9;Q9UJW7;Q12800;Q96PU4;Q9BS31;B4DU55;Q8WXA1;Q8IWP9;P12757;Q8IYH5;O14709;Q96SQ5;Q6ZNG1;Q3KP31;O75534;Q96PT3;Q09FC8;Q96IS3;Q04637;Q86V71;P01011;O60318;Q96H86;P17026;P53803;P17022;Q66K74;P80303;Q8N5A5;O60284;Q92610;O14686;Q8TAW3;Q96KR1;Q16520;Q2NKJ3;Q9H0M5;P52744;Q14188;Q2M218;Q15723;Q12772;P25490;Q8IZ26;Q6ZN55;Q8N895;O43364;Q9BX82;Q9Y2S0;Q96NG5;O00327;Q9BXS6;P0C7X2;P61218;Q8NF99;Q9Y618;O00268;Q96AY2;O14503;Q7RTU4;Q8NDP4;Q86XN6;P35712;Q10587;Q14588;P06733;Q6ISB3;Q9UII5;Q15583;Q9H4T2;Q96JCA;O95243;P10242;Q00059;Q9BQ15;Q8TBZ8;Q15306;Q14592;A6NFQ7;A6NK53;Q9NQZ8;O14497;Q14591;P18846;Q9UBD5;Q8N1L9;P58317;Q9NQ33;Q9UGP5;Q9C0F3;Q99814;P47974;Q8TF32;P27797;P16383;P49959;P27540;Q15776;A8MQ14;Q02833;O15226;Q3MIS6;Q3KQV3;O75290;P53999;Q96SE7;B4DX44;P49005;P26358;Q8IUE0;P19338;Q9P2F9;O14646;Q9Y3M9;P17038;Q13469;Q9P255;O14519;A6NM28;Q6PK81;O60682;Q7RTU5;Q00978;P07199;Q6ZN06;O76075;P17031;Q8IYW8;P17014;Q96MU6;Q8N2W9;Q5T1R4;P19532;O15164;P10074;P78337;Q8NEP9;P52594;Q9NV72;Q49A33;Q9UJN7;Q92499;Q15560;Q92698;Q9U41;Q16594;Q9BX26;P42166;Q6NT76;Q9HAH1;Q08AN1;Q9NZV7;P05423;Q99743;Q03923;P52736;O95983;Q99608;Q95644;Q8N823;P17024;O96004;P17017;Q9Y692;Q9NTI5;Q08211;Q9GZS1;P41162;O60304;Q9Y2401;Q9Y2D9;P59923;Q8N2I2;Q00613;Q13398;Q53GI3;Q9UK11;O15525;O15405;Q86UD4;Q15651;Q9NP71;P55055;Q04864;P17010;P49711;Q9UID6;O43345;Q9UIH9;Q8TAF7;Q13952;Q8N184;Q9BUY5;Q8TF47;Q9UJL9;P27694;Q8IYI8;O43542;Q96FI4;A8MXY4;Q9UBB9;Q02080;O95125;Q8NCD3;Q02878;Q9Y5Q3;Q09161;P0C1Z6;Q8IZX4;Q499Z4;Q9H7R0;Q9UBG7;Q9Y6J9;P10914;P08047;Q12888;Q9NRF9;O60806;Q9HC78;Q8IZH2;Q8N9F8;Q6IQ21;Q9UH92;Q9UKN8;Q9H9Y6;Q01954;O95201;P52630;P82979;P55771;Q5VIY5;Q96NY9;Q92889;Q9UFW8;P51531;P26651;Q13562;P01100;Q16587;Q8NG57;Q92K3;Q15572;Q05481;Q05BW5;Q14934;Q86W54;O15370;Q13263;P28715;Q8NG50;P11387;Q68DI1;Q8NHW3;P52746;P41212;O15060;Q14526;P0C7T5;Q6IQ32;Q96FV9;O75820;P22415;Q9P267;Q8NEA6;Q3ZCX4;Q9Y

6R6;Q8TF50;Q14566;P0CJ79;Q9GZX5;Q16633;Q9BQY4;Q9UBL3;O43361;Q9NW07;Q9H4I2;Q5SXM2;O60870;P36508;P19388;Q9NP66;Q8TC21;Q9BVC3;P29084;P31260;Q7Z3K3;P23409;P35637;Q9UK12;Q9NX65;Q14186;P50222;Q53T94;Q8NDQ6;P51508;Q9Y5Q8;Q8WYN3;Q9UK13;O75444;P40424;Q14653;Q00577;Q9BQ70;Q6ZNO8;Q14151;P49716;Q92541;P12524;Q8NBF1;Q03468;P0CJ88;Q9P0U4;Q8N1W2;P25791;Q12968;P17535;Q9NVX1;P51532;Q9NVV9;Q8NA31;O75461;Q8WYZ3;A6NJL1;Q9BYV9;Q8NEK5;Q8N4W9;Q5XG87;Q9NM38;Q6PJG2;Q8N587;Q9UIS9;Q8NA34;Q8IXF0;Q9H171;P13984;P52742;Q02930;Q9H175;Q16600;Q9UMQ3;Q9UBX0;Q9Y5A6;A6NJJG6;P78364;Q9P0T4;Q9H7R5;Q99551;Q969G3;Q13901;Q9HAU5;Q8N726;O14948;Q96JN0;P17098;Q96MN9;O95232;Q9P0L1;Q9HD15;Q14582;Q8NB42;P54098;Q9UL36;Q9H1A7;P25205;Q15928;O15266;P23511;Q9ULX6;Q9NVI1;Q96MR9;Q6P9A3;P0CJ90;Q5MWC4;P0CJ89;P15927;Q96N20;Q9HAW4;O95402;P0CH99;Q7Z3K6;Q9BRR0;Q9BXP5;Q16649;P58340;Q9UM63;P16415;P18847;Q4W5G0;Q9H7X3;Q96N22;O95948;Q12906;Q9Y2G7;P36956;Q5TGS1;Q9UDV7;Q03924;O95416;Q9UKW6;Q9Y2A4;P35711;A6NFD8;Q96CX3;Q8N859;Q15973;O60765;P16220;Q15699;P52435;Q92804;Q04206;P42226;Q9P2J8;O95780;P49848;P52738;O60535;Q147U1;Q8IXM2;Q9NZL3;Q12972;Q9Y6Y1;Q9H668;Q12873;Q6SJJ96;Q96E29;Q96NM4;Q96G23;P20585;Q9H8N7;P40425;Q96T92;Q8WY36;Q08ER8;Q9UBZ9;Q5S VQ8;Q9UN79;Q13765;Q9UHI6;Q9UI36;Q96N58;Q3C1V8;P41218;Q8NFD5;Q9NXT0;Q53HV7;P42704;O60248;A6NLF2;Q02577;Q6P4R8;Q9Y2V2;Q9H4L7;Q7Z3V5;A8MT69;Q5JVG2;Q5T5D7;Q96B01;Q8NHM5;Q8N7Q3;Q9HB58;Q96NJ6;Q13330;Q8IYX0;Q15562;P35269;O75618;Q96RK0;Q99594;P22736;Q01543;Q14585;Q9Y6X8;Q0VGE8;Q9Y222;Q15744;Q96LW1;O14771;Q96GC6;Q86XF7;Q9BWW4;Q6ZT77;Q96N95;P35548;O75346;Q9BYX4;O60281;Q8WXF8;P35251;Q9Y6K1;Q5VZB9;Q99459;Q6ZV50;P35680;O14862;P05412;Q9Y543;P17029;Q95159;Q6ZRS2;Q9NQ87;Q9H2P0;Q9Y4A8;P11388;Q96T88;P49450;Q92985;A6NP11;Q15327;Q16514;Q15929;Q9BYE7;Q8NEM1;P28347;Q9UBT6;P82970;O00255;P35789;Q9UMS5;Q6ZNA1;P67809;Q8IX07;P18850;A6H8Y1;Q01826;Q6TAR4;Q14590;Q9UKI9;Q6U7Q0;Q9HAP2;P10244;Q9BYK8;A6NKF2;Q9UC06;O75376;Q99612;O00470;P42224;Q9H5H4;Q8N883;Q8N9N5;Q6ZRF7;Q9Y462;Q01201;P78344;Q8NCA9;Q8N108;Q16254;P08235;Q7Z7K2;Q14865;O43711;Q6Z32;O75717;Q9UN30;A9YTQ3;Q01658;P22392;P17023;Q96NI8;Q86YC2;O43829;Q00403;Q8TD17;Q8N2Z9;Q96SK3;Q9ULG1;Q14209;Q03SY52;Q4V348;O94983;Q96NJ3;Q9H074;P11474;O43830;Q8TA94;O00479;P15923;Q86T29;Q9HBZ2;P36402;Q8N5J4;Q13118;Q8N9Z0;Q32MZ4;O14593;P10827;P58304;Q3ZCT1;O43812;Q5HYK9;P22670;Q14181;Q96ST2;P32243;O14867;Q96EG3;P48382;Q2MLV0;Q8IVC4;Q9UHK0;Q96T58;Q8N693;Q02447;O75132;P56693;O94993;O75446;P23193;Q9BTC8;Q8NE65;Q96N77;Q68EA5;Q8N5U6;Q5H9I0;Q99684;P53805;P0C7M4;P55265;Q6ZRY5;O43309;Q8TEK3;Q8TF68;Q99583;Q8NDF8;P17544;A8K0S8;Q9NZI6;Q9HBD4;Q9NW08;Q05516;P31249;Q6ZS27;Q9NTW7;Q7L2R6;O00482;Q86U56;P61244;P51504;Q9BQA5;P84022;Q6Z32;Q0D2J5;Q99607;Q6ZSS3;Q15233;P42677;Q9HCK8;Q9H2G9;P31271;Q9BXG8;Q86VE0;Q9Y252;Q14584;P49715;Q9UIF8;Q8TF45;P10072;Q6ZQV5;Q9Y2D1;Q8TB69;Q6IA86;Q96RE9;O60885;Q15326;O14746;O43296;Q96DN6;Q15937;P14317;Q49AA0;Q15906;P41161;P55347;P04053;Q96QC0;Q8N782;P0C7V5;Q9UGU0;Q6ZSB9;P37275;Q96RJ6;Q96S55;Q9BZK7;P56524;Q9UK10;Q8IYB9;Q86TJ5;Q5EBM4;Q12789;P54278;P31274;P62508;Q9NPC7;Q9Y2H8;O15379;O60422;Q5VTD9;A8MT65;Q00839;Q08945;P18583;P52737;Q9UGN5;Q96AE4;Q8N8Z8;Q92750;Q7Z6K1;Q9Y2P0;Q12905;P18754;P17947;P21675;Q15910;Q96MW7;Q08050;Q6P9G9;Q7Z6Z7;Q9BRH9;Q06732;P19387;Q92966;Q86TG7;P28370;Q7Z2E3;P82094;Q16533;P35869;Q9GZN2;Q6ZMU2;Q16534;A6NNDX5;P06746;P12004;Q9BSK1;Q86WJ1;P0C6G31;P52655;Q8NA92;Q8N972;Q13342;Q7RTU0;O94892;A9UHW6;Q7L3S4;Q9Y5R5;Q9BW11;O43823;Q92670;O96006;O15350;Q96KG9;Q9UBX2;Q92945;P50221;Q99081;Q96C00;P31314;A8MTY0;P49116;O75764;Q9UFB7;Q66K89;Q6ECI4;Q5T619;O94916;P14651;Q9UKY1;Q8TD26;P62841;P24928;O75362;O75626;Q96NL3;Q86U86;Q96JL9;P54253;Q96IT1;P30876;Q9Y473;O00570;Q9P243;A6NMF4;P13056;P33992;Q8WVM0;P17025;P40426;Q6P280;Q8N2C2;P24278;Q7Z3I7;O00287;O43365;Q00653;Q15543;Q0VQ06;Q9NSC2;Q9NYB9;Q86UQ0;Q96C28;O00712;Q9NP87;P43268;P23246;O94952;Q96LL6;P15336;P51814;P10328;Q8N3J9;P41182;P04198;Q6NSW7;Q6RFH8;Q8IZ40;Q15047;Q9NS37;Q92793;Q9HCG8;A8MUZ8;P39880;P05114;P57071;Q15365;Q3T8J9;Q9HAJ7;P39748;Q59GR2;Q15697;P31276;P19474;Q5CZA5;Q14119;Q9UJU3;Q9Y2P7;Q8N488;Q9BQW3;O60869;P48380;Q15361;O75467;Q9HCS4;O60264;O43593;Q7RTU3;Q9Y6Q3;P78549;Q5BKZ1;Q92466;P51523;P57721;O75475;O75586;Q5SXM1;Q9UQR0;O60828;Q16526;Q8N8E2;Q6AZW8;Q06416;P19447;Q4G112;Q14527;O60675;Q76KX8;A6NN14;Q6IV72;O15160;Q63HK5;Q68DY9;Q9H963;Q92900;Q7Z7L9;P17275;Q04837;A8K8V0;Q8N141;Q9UIE0;O00411;O95163;Q9H160;O43310;Q6ZMV8;Q96I27;Q92922;O75531;Q8NCK3;Q9BS34;O94842;Q8IYF1;Q8TBZ5;Q9BSG1;A0AVK6;Q9BXX3;Q68CP9;P19838;P20823;Q15935;O75123;Q13568;P0C7X5;P12525;B2RXF5;Q8NFC6;Q9H9Z2;Q12837;Q8TAQ2;Q6P0N0;Q06609;Q6P1N0;Q6AW86;Q9UKL0;Q9H211;O14628;P0CG24;Q13485;Q8N0Y2;P62380;Q9GZM3;Q9Y5B6;Q96PQ6;Q9UHN1;Q9NSJ1;Q03111;Q8WTR7;Q06633;O75925;O14737;Q96E14;P16989;Q8WXB4;O75564;Q06730;P78347;O75683;Q7RTV3;Q9Y237;Q9Y253;Q8TBC5;Q9BY31;Q9UNA4;Q9UBD0;Q9UBB5;P27695;O75478;Q8NC26;Q9NZI5;Q6NX49;P11161;Q5TEC3;Q9H4S2;Q01664;Q86Y25;O43167;Q9NY43;Q99676;Q9NU63;Q9UEG4;P53539;P17861;P31269;Q96PE6;P49790;Q01860;Q15544;O14802;Q9UNY4;Q03060;O00716;Q9BWM5;Q8WTV1;P46100;P52743;Q9H5J8;Q96K75;Q00444;Q15072;P55895;Q13105;P52747;P28324;Q13887;P20749;Q9UKT9;Q96PM9;P17035;P51587;Q96I24;O43918;Q15631;Q7Z353;Q96AV8;Q9ULX9;Q07687;Q8TAU3;Q9BT81;Q9NSD4;Q8HWS3;Q8WYK2;Q14938;Q15561;Q5JVG8;P81877;Q15366;Q99856;Q01094;Q14770;P23760;Q9NZI7;P18124;P0CJ86;P62875;P11308;P15408;Q9NYF8;A6NWL8;P54274;Q9NR55;P55197;Q6MZP7;Q9Y5J3;Q8N7K0;Q8IX15;P17039;Q14739;P15884;Q9P2D0;Q8WVJ9;Q9H9Q4;Q8N393;Q9HCX3;Q6ZNH5;Q96IU2;Q6P9A1;Q15796;Q14839;P13010;P17482;Q9H503;Q86UP8;P12956;Q96LW9;P20226;P20265;Q10586;P10073;Q5VZL5;O00321;O95238;Q9Y2Q1;P0CJ85;Q9UBC3;P05204;Q68DY1;P49910;Q86TJ2;Q8N988;Q9NYT6;O96028;Q9NS91;Q9HBE1;P52741;Q96IR2;P17021;P35227;P35638;P29372;Q12986;Q13761;Q92988;P0CJ78;Q6XD76;Q969F1;Q96GE5;Q9HAZ2;Q14781;Q96ST3;Q9H9D4;Q96K58;Q03938;O75505;P17041;O60381;P10589}

669

Pathogen[ P14079] interacts with 1527 human

pathogen: {Q969J2;Q96JN0;Q9Y2S0;Q15916;Q96SC8;Q3T8J9;Q9BWM5;P07199;Q8IYX0;Q8NHY6;Q9NV72;Q92664;Q14585;Q6AW86;P15622;P52738;Q96C00;Q7Z5D8;Q5SXM2;Q13952;O60284;Q9UJN7;Q9UQR1;O15379;Q0D2J5;Q96CS4;Q8NA92;Q9UPW6;Q9UK12;Q6P0N0;Q04837;Q9NSD4;Q15560;O95159;Q8N2W9;Q9HBT8;P52741;Q9HAK2;Q9BW11;Q12986;O14519;Q8IZC7;P35711;Q9H668;Q9NVX1;P54274;Q3SY52;E9PGG2;Q96ST2;P62875;P51504;Q8N9Z0;O43196;P11388;Q8N895;Q99459;P41218;O95402;P17098;Q01105;P08151;Q8N8B7;P15036;Q03188;Q9GZM3;Q8N7U7;P13056;O15164;Q8WYK2;P0CJ89;O75123;O15315;O14746;Q9HAZ2;O14867;P0CJ88;O75467;Q68DY9;Q9NWS1;P20585;P0C7M4;P10243;Q9H7R0;Q997



43;Q06730;Q9BQ15;Q53GI3;O75346;P16383;P62508;P33076;Q9HBT7;P05114;Q8TAT5;A9UHW6;Q4G11  
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670

Pathogen { P03383 } interacts with 993 human

partners: [ Q969W8; Q96LX8; P43351; Q9UQR1; P35227; Q9Y618; O14628; O95402; Q86U86; Q7Z2E3; Q06330; O14519; Q13761; O43167; Q15329; Q15723; P10244; Q9H7R0; Q02577; P53803; Q68CJ9; P48378; Q9BQG0; Q9Y6J9; Q8WTZ3; Q9UKN8; Q8IX15; Q03188; Q8NI51; O00470; Q9Y253; Q9UHN1; Q5FWF6; Q5JVG8; Q14978; A6NNF4; P16989; Q15935; Q9UHL9; Q8NBB4; P19474; P10914; O75925; O14737; Q63HK3; P14316; Q15561; Q96S65; Q8N344; O15266; Q9Y2S7; Q9UBD5; Q12888; Q96BR6; Q32MZ4; P11831; Q8N2Z9; Q15047; Q06609; O95625; Q9UH92; Q96SK3; Q14839; O75534; Q8NFC6; P15036; Q6ZN08; O14497; P35712; P50549; O95602; Q01105; P06746; Q02080; Q13485; Q96SZ4; Q9HBD4; Q9BSG1; Q14653; Q9UK10; Q06455; Q04864; O14862; A6NK75; O95163; P33076; O00716; Q86WP2; Q15366; P08047; Q9UPW6; Q8HWS3; Q9UKL3; Q9BTC8; P13010; Q14209; P29084; Q99607; Q9BR84; P17096; O75478; Q9UKI9; Q9Y5L5; P16220; Q9NZV7; Q9H7R5; P27540; Q9NWS1; Q15562; Q9Y2P7; Q8N1L9; Q7Z6K1; P28069; P54278; Q49A33; Q15544; Q6ZYL4; Q13469; Q9H9Z2; Q7Z591; Q9NWB7; P17544; P56270; Q16633; P35269; P0C7T5; P32243; Q5H9I0; P19338; Q9H4I2; Q9HBE1; Q00653; O60765; Q8WTV1; Q08999; A8MVS1; Q9H8G1; A8MWA4; O60248; O94776; Q3T8J9; P49711; P17022; Q86V71; Q6P4R8; P15172; Q01094; Q96GE5; Q9H5H4; Q5HY98; Q3KCP31; Q9NYB0; P14921; Q15937; P55771; Q15072; O75376; Q8WVJ9; Q15572; Q14526; P17029; Q07687; P58340; Q9Y5Q3; Q9H4T2; O00287; P19484; Q16656; Q03111; Q9Y5R5; Q9HCL3; P01106; Q8WW38; O75437; Q86U70; P40424; A8MXY4; Q12986; P78347; Q6NT76; Q6NVH7; Q15554; Q9UKD1; Q96NI8; Q9UPN9; Q99608; Q14181; O96006; P49116; Q9P2R6; P49116; Q9Y5B6; P23511; P05204; O75362; Q9UL49; P51815; P14859; P23193; Q9UKW6; Q8N7M2; Q9BRR0; Q13360; O00570; Q9NP66; P27694; A8MTY0; Q9BWW4; Q7Z3K6; Q96BD5; Q969F1; Q53HV7; Q8TD23; Q05481; Q9Y2Y9; Q9BXS6; P48382; O75360; Q9UHW6; Q9Y535; Q96H40; Q2M3W8; Q8N4W9; P17482; Q6ZNO6; Q9H9Y6; A4GXA9; Q6ECI4; P53999; Q9UMQ3; O95644; O75618; Q5EE01; P18847; Q92966; P25205; P18124; Q9UK13; P17861; P51508; Q8WYP5; Q01826; P22670; P20749; Q9BYN7; Q8N3J9; P19419; Q6ZN17; P52744; P28370; B4DX44; Q96FV9; Q8NEP9; Q12972; P52655; Q96B01; Q9H9Q4; P48380; Q96LI6; Q5CZA5; Q8TF20; P23769; P50222; P22392; Q9H503; Q6MZP7; Q00059; Q76KX8; Q9UHI6; P42677; P37275; Q8NDQ6; Q9NQ87; P31276; Q96N77; O95831; Q9UL58; Q9ULD5; Q9UMS5; O75030; Q96PU4; Q15542; Q6RFH8; O94983; O14709; O00712; P52630; P35638; O75461; O43365; O60318; P15923; Q3MJ62; Q9ULW3; Q9H2G9; P53805; Q96KR1; Q16520; Q86TG7; Q12901; Q9C0F3; Q8NDF8; P35789; Q99816; O14646; Q8NA31; Q6PJJG2; P61218; Q8NA42; O14503; Q6P9G9; P17019; Q6IQ21; Q14814; Q96N20; Q9Y2Q1; Q01860; Q6ISB3; P78317; Q8IZX4; Q08945; Q96IU2; P42226; P61978; Q9BYE7; Q96N95; P11387; Q9P2K3; Q03923; Q8N988; Q8WYN3; P18846; O15405; Q9GZS1; Q86V15; Q3MIS6; Q99459; Q96SE7; P49005; Q86XF7; Q05516; P28698; Q9GZX5; P12980; Q8N693; Q8TB69; Q07352; Q86VE0; Q15306; P0C7X2; Q9P0L1; Q15651; P17038; Q96S55; Q7RTU5; Q00978; Q13330; P15621; A6NK53; Q15631; Q86YE8; Q9HAC1; Q8N2W9; P51504; Q8N587; P15408; P78337; Q6ZR52; Q96EK4; Q9Y5Q8; Q8TE85; Q15560; O75683; Q9H1D9; Q8N5U6; P59923; P17098; Q9H175; Q01831; O00321; Q9NQX1; B4DU55; Q6NSZ9; Q9Y692; P06400; P18146; P41162; Q

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7;P40425;Q9UMS4;Q6ZMV8;Q92793;Q13901;Q96ST2;Q8N823;O75531;Q7RTV0;Q8TF39;P54274;Q02078  
;Q0VG06;P14651;Q2VY69;Q9BWH6;P13682;Q9UIS9;P12956;Q13127;Q6ZQV5;Q96NG5;Q53T94;Q14593;  
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75928;Q15543;Q9Y250;Q96N9Y;Q14781;Q03938;Q03933;P05412;Q16526;Q8IYB9;Q13129}

671 Pathogen[ P03410] interacts with 1521 human  
partners: {Q9NSD4;Q96EG3;P84022;Q9Y2P7;Q14202;Q03188;O75505;Q9BWH6;Q96LI6;Q9HCG1;Q9959  
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Pathogen[ P14075] interacts with 954 human

partners: {P43351;Q9H307;Q16633;Q9NQ33;P28069;P42704;Q8N196;Q3L8U1;Q0D2J5;Q00059;Q9NZL 3;Q9C0F3;P52630;Q969F1;Q14781;Q494X3;A8MT69;P11387;Q9UN30;Q6P4R8;P17480;P17029;P06733 ;P05204;Q68DY1;Q9NTW7;P82979;Q7Z2E3;Q8NI51;Q9Y6J9;Q96ST3;Q9NSC2;Q15572;Q15366;Q12789; Q96IU2;O14646;Q9UHL9;P35869;Q3T8J9;O60663;Q8TAQ5;P51815;Q96S65;Q96QR8;Q15929;Q9607;Q 6V9R5;O75564;P54253;Q96E14;Q9H2G9;Q9O161;Q02577;O95232;Q86U70;Q6RFH8;Q9Y5B6;P54098;P4 2677;P13984;Q99608;Q9Y5A6;P19338;Q9Y6K1;Q969J2;Q9H175;P35659;Q9H211;Q8N9N5;Q92900;A8M TY0;Q96GE5;Q6ZN32;Q00613;P23497;P23246;Q9HAP2;Q9ULL5;P12956;P50548;Q9BWH6;Q9NV11;Q028 78;Q16533;B4DXR9;Q8N141;Q13105;Q04206;P21675;Q6ZN08;P17482;Q9H4I2;Q9Y5R5;Q9UM63;Q9Y2S 7;Q7Z591;P51523;P78337;Q9GZS1;Q5TGS1;Q9HBD4;P40424;Q14526;Q9UBZ9;Q13951;P16989;P52737 ;P0C7X2;Q99687;O75030;Q9NV72;Q96UQR1;Q9HAJ7;O60248;Q92966;P55265;Q9UQR1;Q8NEM1;Q08999; Q8N5J4;O14746;P23025;Q8NC26;P05412;Q15542;Q8N488;Q96NJ6;P42226;Q5BKZ1;P40425;Q12800;Q 14938;P11474;Q9Y2D1;Q2M3W8;Q01543;Q9UQR0;Q8NDF8;Q9BQA5;Q14103;Q15928;O75475;Q4LE39;Q1 6656;Q14593;P14859;O60828;P22670;A6NHJ4;P11831;O60481;P52747;Q9BWW4;Q15554;Q15906;Q8N 1L9;P10828;Q96QC0;Q9BSI4;Q8NA42;P78545;Q14588;Q86XF7;Q15697;P17861;O60765;Q8NBB4;Q089 45;Q15562;Q6ZNG1;O00470;P27695;Q9Y2A4;P15532;Q6U7Q0;P28347;P30876;Q9UMS5;P53567;Q1290 1;Q9UNY4;Q8TD23;Q07666;P25208;P0CB33;P52736;Q96MR9;P07199;Q15937;Q96SZ4;Q9UKN5;Q01831 ;Q86YC2;Q2NKK3;Q9UHX1;Q01201;Q01658;O75444;Q9H7R5;Q53T94;Q9H116;P17275;Q9Y5N6;Q9Y4A8; Q00403;Q6ZYL4;Q7L2R6;P82094;Q13901;Q5EE01;Q8TE85;O75362;O75446;Q06546;P0C1Z6;Q6NUN9;O 60563;Q9Y252;P43268;Q9P2R6;Q8WYP5;P23769;P61244;Q9UKL0;Q9UID6;Q9Y2G7;P59923;Q96T58;P4 1218;Q9BX26;P19419;P41212;P26651;Q12905;Q14241;Q6P9A1;P18847;Q01860;Q9UBD5;P28698;Q8N 782;Q9BQ15;Q9H7R0;P38935;Q14839;Q9UBD0;Q03933;Q9HC44;P48380;Q92945;P62633;Q33E94;Q9HB T7;O15015;P35548;Q96C28;P11161;Q12837;Q15561;Q6ZQV5;Q53HV7;P15172;Q96ND8;P17096;Q1532 7;Q9Y606;P56524;Q96PU4;Q9UK11;O43918;P17036;O14709;Q08050;Q9H9Z2;O43186;P18146;P19484 ;P78344;P0C7T5;Q15047;O60675;O95625;P06746;P29084;O95619;Q96RK0;Q16520;Q6ECI4;Q6IA86; Q86VE0;Q9Y2N7;P20265;P33076;Q9UH92;Q92922;O15226;P19388;Q3MIS6;Q9Y603;O94776;B2CW77;O 75925;Q5VZL5;Q9BXS6;Q9HAH1;P10244;P61218;Q9Y2V2;P17019;P35638;P50750;P15822;Q53EQ6;P3 1249;A8MT65;Q6TSB3;O00287;Q9Y250;Q02080;Q9ULX9;Q15910;Q96IT1;Q9BTP7;P78347;Q92988;O43 167;Q12906;Q99543;Q9H074;Q5SXM2;Q15544;P49005;O95159;Q9UFW8;Q8TAF7;P19387;O00716;P566 93;Q9H040;Q7RTU5;Q00978;Q8WV38;P20226;Q9BT49;P15336;P04198;Q8N2W9;Q9UL58;Q9UBB5;Q9275 4;Q9NZI7;P15927;Q15560;Q9BRR0;P10242;Q16666;O94983;Q15796;Q01105;Q08AN1;Q96N95;Q9NQ87 ;P0CH99;Q8NHY6;Q03936;Q13148;P15923;Q6ZMV8;P18124;Q96AP0;P15408;Q9HCG8;Q13398;Q53GI3; Q86W11;Q8N7Q3;Q9NYF8;Q14585;Q7Z3K6;Q14209;Q13952;Q9ULJ3;Q9BYE7;O43365;Q99856;O00570;Q 05195;Q16594;P26358;Q6S96;Q8NA31;P13056;P01106;Q92750;P39880;Q8WVJ9;A9UHW6;A6H8Y1;P5 3805;Q9Y618;O14497;O75290;O95402;Q07687;O14503;O75132;Q9Y2Q1;P17040;P31269;O75376;Q01 826;Q4G112;Q9HAZ2;P27540;P55347;O75586;Q7RTV3;Q8N5A5;Q99459;Q8N2Z9;Q02556;P12757;Q9Y2 M0;Q03468;Q9ULD5;P35711;P41162;O96004;Q96NI8;Q13568;P17098;Q96MN9;Q13485;Q9UHK0;A8MUZ 8;Q60870;O00255;P09629;Q9BVC3;Q8WTR7;Q9NP71;Q92499;P24278;Q14186;Q86XN6;Q10586;P15036 ;Q5TEC3;Q15365;Q00839;Q8IYI8;Q15853;Q9H9Q4;Q8N5U6;Q9BQ70;P49116;Q9NWS1;Q12857;Q9UKL3; Q9HAW4;P46100;P54274;Q9HCL3;Q92541;Q6ZVD7;O14770;Q9UHI6;P25791;Q5VIY5;P57721;O75478;Q 15631;Q8N7U7;Q86US8;Q9BQGO;Q9NY43;Q9ULV5;P28324;Q12986;Q8N108;Q9Y692;Q9Y253;Q8N344;Q9 2670;Q9H5J8;Q15326;O75618;Q8TA94;Q9NQX1;Q9NZV7;P32519;O14948;Q14653;Q9UPW6;Q06455;Q01 664;Q7Z6K1;O00411;O75683;O95983;P54845;P23193;Q05481;Q9UNY5;P52746;Q8N4W9;Q9P0L1;Q9BU Y5;O14519;Q8N228;P50221;Q32M78;Q13469;Q96N22;Q9Y2T7;O15350;P52742;Q16254;Q9UL49;Q8N7M 2;Q99684;Q8N693;Q9BYN7;Q8N3J9;Q9HCG1;Q01892;Q86U86;O14862;P25205;P48378;Q9H8G1;Q6ZN17 ;Q96RY5;Q9H963;Q9Y5Q3;O95780;P49848;Q15424;Q68CP9;Q8NDQ6;P35712;O95831;Q9UBB9;Q6MZP7; Q9ULX6;Q9Y2D9;P86452;Q9H1D9;P55771;Q96E29;Q9H9D4;Q96NY9;Q04637;Q9UIS9;P51504;P52744;Q 9HCK8;Q9UPN9;Q9UN79;O15370;Q13765;P24928;Q8NAP3;Q86WV5;Q9UHF7;Q6PG37;Q96ST2;P27797;Q1 5723;P51531;Q9Y535;Q14934;Q15573;Q8IYX0;Q9UKT9;P35269;P11473;Q99594;Q9Y6X8;O75929;Q9U LW3;Q6IV72;Q8N587;Q8N895;Q96IR2;P48382;P53999;P19474;Q8WVX8;P35251;P52655;Q15306;Q165 31;O15405;P17947;Q9UIF9;Q9UKD1;Q8TBE0;P11308;Q16514;Q96BT3;P82970;Q8TAQ2;O14628;Q1415

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Pathogen[ P0C206] interacts with 1640 human  
partners: {Q9UID6;P27695;Q02386;Q8HWS3;Q8N9K5;Q8TE85;Q9NUA8;O43829;Q8N720;O43542;P0673  
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Pathogen[ P03363] interacts with 1648 human

partners: 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;O60264;Q12800;Q9NWB7;P25791;Q9H1A7;Q96BR6;Q9P2Z0;Q6P1L6;Q5BKZ1;A6NK53;Q6IV72;P51786;Q8TF45;P10072;P29372;Q03936;Q9NQ03;O43524;P15923;Q96RE9;Q6ZN19;P15336;O60885;Q15326;Q9UD57;Q1



3951;Q2M1K9;P17023;Q86T29;P20749;Q5EE01;Q00403;Q8NAF0;Q96DT7;Q13609;Q15937;O15499;Q15424;Q8TE85;O75446;P32519;P15822;Q07352;P04053;P0C7V5;Q8WY36;O43593;A8MUZ8;Q2MLV0;Q05066;Q8N228;Q8N7G0;Q2VY69;P62841;O94952;Q96JM2;Q99708;O43830;Q9BTC8;Q08050;Q96LW9;P13378;Q8LYB9;P20585;P0CJ85;P11831;Q8WYN3;O15226;Q8TF39;Q9BS31;Q13129;Q9HCK8;Q8N972;Q96MA1;Q14872;Q48N3S3;P56693;Q13426;P28702;Q9BPY8;Q8IYB3;Q9BYN7;P20264;P28069;Q96N58;Q195I36;Q9H4T2;Q9AN0;P14859;P28358;Q14119;Q5T94;Q6ZNG2;Q8N393;Q00444;P56915;Q12906;P18583;P52737;Q00653;Q15544;Q96AE4;P11308;Q96IR2;Q9UPG8;Q8N8Z8;A8MZ59;Q8TF20;Q03111;Q9ULD5;Q8IX15;O95238;P81877;Q13415;Q9GZZ0;O75030;Q96KN3;P08235;Q17RP2;P46063;Q92945;P51504;P17480;Q9Y250;Q9BQ15;P21506;Q6ZLN3;Q14241;P24278;Q9HBT7;Q14814;A6NJT0;Q9NZC4;P54278;P49450;Q6VB84;P78545;Q9P255;Q08999;Q86WP2;P05423;Q14549;P0CG13;P17039;Q8IXT2;Q6PF04;Q8TAF7;Q96H40;Q5VIY5;Q9UDV6;Q9UKK3;Q5JN33;Q9NZI6;Q86WZ6;Q7Z2E3;Q96C28;Q96E14;P17032;P17096;Q8NB12;O14979;P54274;Q8IZ20;Q9BXX1;Q96NM4;Q9H609;Q9UJU3;P14316;Q14527;P32242;P18846;Q01094;Q8WYA1;Q9UIF9;Q96JY0;Q3T8J9;Q9Y5R5;Q8NDF8;O75444;A6NDX5;Q9NXT0;P06746;P27797;P14652;O14709;O75505;Q6NXX5;Q9NP08;Q13472;Q8IY51;Q969G3;O00327;O43186;Q9H4Z2;Q9H668;Q9BWH6;P51814;O75534;Q9BSK1;Q9UIF8;O15525;P31260;P19474;P52736;A6NMT0;Q96ST3;Q9HBD4;O60318;O76075;P0C1Z6;Q7Z5Q5;Q5CZA5;Q8N7M2;Q06416;Q9Y6Q3;Q7RTU0;P17022;O60870;Q6B0B8;Q14966;Q8N5A5;P17036;Q9BW11;Q63HK3;P17861;Q4G112;Q14919;Q9H211;Q9Y3M9;Q8IYD8;Q86UP8;O96006;P54277;Q9Y2N7;Q9BQA5;P52744;Q96KG9;Q96SK3;Q8IZ40;Q2M218;O75586;P10412;P20265;Q9H040;Q9HAU5;Q15796;O95983;Q15723;P31268;Q6XD76;Q15270;Q9UKL3;Q8N108;P57721;P84022;A0AVK6;Q01167;Q96C00;P31314;Q8N5J4;Q7Z6R9;Q6U7Q0;Q96PE6;Q16656;P41161;Q8N895;O95163;Q68CJ9;Q5T619;O94916;Q9NZI7;Q9BRH9;Q9HCC6;Q8IYV4;Q9UKY1;O75564;P10244;Q8TF68;Q9NZI5;Q6ZM57;O96004;Q9H2Z4;P26358;Q9Y618;Q8IXF0;Q92499;Q00056;Q96AY2;Q9H9Z2;Q96N77;P35638;Q86U86;Q15542;P10914;Q6ZNG0;Q86XN6;Q9Y2G7;Q6ZN08;P54253;Q9UHX1;Q92826;Q96IT1;Q92618;O00479;Q6ISB3;Q9BYK8;Q03188;P55265;O00470;Q05925;Q15583;Q9H9Q4;Q9NYF8;Q06732;P35398;Q9BQW3;Q9H0M5;O75925;Q14209;O95243;Q5XKR4;Q8NCD3;Q00059;Q92664;Q8NEP9;P17025;Q7Z3I7;P50549;Q92966;Q33E94;Q9H582;Q9UK13;Q14592;P15407;Q96CX3;P51508;P22415;Q8N184;Q9H503;O00287;A6NFQ7;P54821;Q96NK8;Q6ZSB9;Q8N7K0;A9YTQ3;P0CB33;Q9BUY5;Q9H7R0;Q14591;Q12905;Q86UQ0;P23759;Q14584;Q9BS34;Q8N8L2;Q9NP87;Q4G0Z9;Q92750;Q9P2K5;O43542;Q9NXX5;P49790;A8MUV8;Q9HB31;P19838;Q7Z3K3;Q99814;Q6NSW7;Q6ZMW2;O43345;Q6RFH8;Q96S55;Q96SZ4;Q02833;P09016;Q9Y692;P53999;Q92793;Q86Y25;P05114;Q16633;B4DX44;P57071;P82979;Q15365;Q15651;Q6ZNG1;Q01954;Q15697;P31276;Q16533;P14317;Q6ZM79;O95125;Q8N823;Q6ZSS3;Q8NC26;P50222;Q96E14;O60869;Q13469;Q15361;P21675;Q9NR48;Q14585;O14646;P33076;P52740;Q92988;Q14103;Q8IWI9;P51523;O96028;Q6PFF0;Q9BWX5;P23193;Q14587;Q01201;P56270;O14862;Q92466;Q9NPA5;P35712;Q9H2G9;O60393;Q96NG5;Q9UQR0;O60682;O43711;Q96BT3;Q9Y651;Q7RTU5;Q00978;Q9P2K3;P10242;P20226;Q16526;Q9H171;P49910;Q6AAZ8;Q3B8N5;P52655;P17014;Q96GE5;Q9Y2Y4;Q9Y237;Q7RTU4;O75362;Q12670;Q8WV0;Q9UL58;P43351;Q13485;Q15072;Q8N726;O95076;O95402;P10074;Q96RK0;Q92804;Q2NJK3;Q12968;Q05195;P26651;Q9ULV5;P17482;P52951;P49335;Q8TD23;O60806;Q9Y6R6;P23409;Q03468;Q9UJN7;P50750;P78367;Q08945;O00570;Q14186;P31269;Q6ZS27;Q63HK5;Q5HY98;P12980;Q04837;A8K8V0;P19484;Q9UQR1;Q99687;Q8IYN0;Q8TD26;Q92541;Q8TB69;Q9H8Y1;Q96JL9;Q9C056;Q9NYT6;O14737;P17020;Q14188;O75531;Q3MIS6;Q9Y483;Q9BR84;P15884;P41162;O75398;Q8TF47;Q9A842;O95644;A6NP11;Q3SY52;Q96T88;O43361;A6NLW8;Q9H7X3;Q9BSG1;Q9P267;Q9QFC8;Q9UK12;Q9BQY4;Q15973;Q9BYX4;Q9BZI1;Q96QS3;O94993;P61978;Q86XF7;Q8IUE0;P05412;Q96MN9;Q6IQ32;P17017;Q9NTI5;Q96K58;P40424;Q96AV8;Q96G23;Q9BT49;Q9H116;O60304;Q8TAU3;Q7Z401;Q9HCG8;Q04741;A2RU54;Q5H9K5;Q00613;Q13398;Q9UKT9;Q53GI3;O15405;Q5SXM2;O60675;O75771;Q86UD4;Q14934;Q12873;B2RXF5;Q9HAJ7;P28370;Q147U1;P0C7M4;Q9NR11;Q99581;P58317;Q04864;P19532;Q9NQC6;Q86DY9;Q02874;O14519;Q6P1N0;Q6AW86;Q9UKL0;Q8IYX0;Q5VZB9;Q96IU2;P47974;Q6P280;Q8NDP4;Q14739;Q6NVH7;Q7L945;Q12789;Q5EBM4;Q9UHN1;Q4VC44;Q9BWW4;O43918;Q96DN6;Q9UNA4;P09629;Q8TC21;A8MXY4;P55895;P16989;Q00839;Q15573;Q8N9K5;Q9Y543;P55197;P40426;Q96N95;P09874;P35452;Q13330;Q8WXB4;Q96SQ7;Q9NP71;O95343;Q02548;Q8IYA7;P52741;P41970;Q9NR33;Q8WTR7;Q9HCG1;Q9Y2Q1;Q8WW38;Q9Y534;Q499Z4;Q9BY31;Q9UMS4;Q8NFD5;Q96NJ3;O95416;O75478;P16383;Q68DY9;Q02874;P52743;Q8TAW3;Q9UBG7;O43364;Q03828;P08047;P52594;O60248;Q8WZT3;Q9UMQ3;Q5TEC3;A8MVS1;Q96PT3;Q99081;Q9HC78;Q9NY43;Q8TAU0;P82094;Q2M3X9;P15622;Q0VGO6;A4GXA9;Q9UKN8;Q15560;P78344;Q9BUZ4;Q9BTP6;P48380;Q96KR1;O75626;O00716;Q03701;P0C7X2;Q13761;P52742;Q6ZRF7;Q9Y6Y1;Q9H9D4;Q2M3W8;Q5MCW4;Q15935;Q96PU4;Q96NY9;A6NFI3;O43298;Q01105;Q9BWM5;O43829;Q8N1W2;Q01658;Q9UBD5;O60284;P51531;O95475;Q8N8J6;Q8N8J7;P18754;Q92922;Q9NQV6;Q86WJ1;Q9NWS1;Q15543;Q9UL36;P53803;P17544;Q9P2R6;P52435;Q9UBZ9;Q00577;Q8IYI8;P09630;P17040;O94892;Q0VGE8;Q9HCE3;O60828;Q15572;Q96BR9;Q8N2W9;Q99811;Q05481;Q9P0W2;P0CJ78;O15060;Q86W54;Q96PM9;Q68CP9;Q08211;O95625;P05204;Q8NHV9;Q9NS91;Q9UBC3;Q16534;Q9P2F9;P41212;Q96K75;P09017;Q9UJU5;Q9H9T3;O15522;Q5FWF6;P39880;Q9H9S0;Q9ULX9;Q07687;Q9UIH9;Q9BT81;A6NJG6;Q8HWS3;Q99459;P78337;P51815;P15172;Q9UID6;Q96CS4;Q3MJ62;Q05516;Q12837;A6NJL1;Q8WXF8;Q3ZCX4;Q8TBZ5;Q15561;A8MT65;P50219;Q13106;Q9GZX5;A6NLF2;Q9Y5N6;Q8TF50;P17038;P0CJ79;Q6P9G9;P25208;Q9UPW6;Q5T890;Q15047;Q12857;Q96NI8;Q8TF32;Q9BXX3;Q6ZMS7;Q9Y2T7;Q9P0T4;Q9UBD0;P18124;Q9H4I2;Q969S2;Q9NP66;Q32M78;P10589;P15408;Q9BWT6;Q8TBE0;Q96NL3;Q9Y473;P13056;Q99594;Q8IZU3;Q8NEM1;Q15329;Q9UL49;Q99583;Q3KNW1;Q9NPTC8;P78347;Q9Y5Q3;Q01664;Q8WVJ9;P52746;Q9ULX6;Q9Y5Q8;A6NNA5;Q05215;Q9BYE7;Q9Y2S7;P15036;Q9UII5;P42166;Q9BZE0;P38935;Q9Y6J9;Q96B42;Q9Y2S0;Q01860;Q9H074;Q9P2Y4;P31275;O14813;Q08ER8;Q8N3X6;Q53HV7;Q86TG7;Q03060;Q4V348;Q9UJL9;Q9Y5L5;O14627;Q8IZH2;Q9BQ70;Q49A33;Q9NV72;Q96N38;Q9BXG8;Q06730;Q9UIE0;Q14151;Q03052;Q9H8G1;Q99551;Q02446;Q9UJW8;Q9BX26;O14628;Q8NBF1;Q6P4R8;A6NN14;O14503;O14686;Q10587;Q96MN5;Q9HBUL1;A6NJ46;Q68DY1;Q12888;Q15906;P10243;Q92698;Q49AG3;P22670;Q86TJ2;Q96B01;Q7Z3V5;Q9Y222;Q8N7Q3;A8MT69;O95789;Q8TBZ8;P10073;Q8NFP9;O75290;Q7Z5D8;Q04743;B2RD01;P67809;Q8NA31;O94776;Q9NR83;Q86YC2;O15535;Q6ZT77;A8MWA4;O75467;O15160;P52747;O75928;P28324;Q8N344;Q13118;Q96SQ5;P23511;P17035;Q09161;O43502;Q96MW7;O95831;Q8NOY2;Q6TAR4;Q05BW5;Q8N4W9;A6NM28;Q9UBB5;Q02577;Q92754;Q7RTU3;A6NFD8;Q9UIS9;Q16594;Q15319;Q6VUC0;Q6PK81;Q04637;Q9H5J8;Q9UFB7;Q9HAZ2;O15315;P01100;Q96H86;Q8TA94;Q5JVG8;Q9UBX0;Q03938;Q16600;Q9H2A3;P49640;Q6QHK4;P11161;Q9Y2P7;O00482;P52756;Q9H7R5;Q02078}

675 [Cluster 62]GO:0033558+F molecular\_function [name] protein deacetylase activity [def]



"Catalysis of the hydrolysis of an acetyl group or groups from a protein substrate." [GOC  
676 Pathogen[ Q2Q067] interacts with 7 human  
partners:{Q8IXJ6;P56524;Q9UKV0;Q13547;O15379;Q969S8;Q92769}  
677 Pathogen[ P0C214] interacts with 7 human  
partners:{Q13547;Q969S8;P56524;Q92769;Q9UKV0;O15379;Q8IXJ6}  
678 Pathogen[ P03346] interacts with 7 human  
partners:{Q969S8;O15379;P56524;Q8IXJ6;Q92769;Q13547;Q9UKV0}  
679 Pathogen[ Q85601] interacts with 7 human  
partners:{Q969S8;Q9UKV0;Q8IXJ6;Q92769;P56524;O15379;Q13547}  
680 Pathogen[ P14079] interacts with 6 human  
partners:{O15379;Q969S8;Q9UKV0;Q92769;Q8IXJ6;P56524}  
681 Pathogen[ P03383] interacts with 6 human  
partners:{Q92769;O15379;Q13547;Q9UKV0;P56524;Q969S8}  
682 Pathogen[ P03410] interacts with 7 human  
partners:{Q9UKV0;Q8IXJ6;Q969S8;Q92769;O15379;P56524;Q13547}  
683 Pathogen[ P14075] interacts with 6 human  
partners:{Q969S8;P56524;Q9UKV0;Q13547;Q92769;O15379}  
684 Pathogen[ P0C206] interacts with 7 human  
partners:{Q92769;Q9UKV0;Q13547;O15379;Q8IXJ6;P56524;Q969S8}  
685 Pathogen[ P03363] interacts with 4 human partners:{O15379;Q969S8;Q9UKV0;Q13547}  
686 [Cluster 63]GO:0042826+F molecular\_function [name] histone deacetylase binding [def]  
"Interacting selectively and non-covalently with the enzyme histone deacetylase." [GOC  
687 Pathogen[ Q2Q067] interacts with 41 human  
partners:{Q14526;Q8IXJ6;P56524;Q99638;Q9UKV0;P62258;P13056;Q01664;Q13547;Q14814;O9498  
3;O15379;Q8N5D0;P08047;Q6BDS2;P48552;P11388;Q09028;O43593;Q6W2J9;Q969S8;Q92831;Q9H091  
;O75496;Q15327;Q92830;Q02080;O14593;O43809;Q9H7L9;P31946;P22415;P52292;Q9Y618;P43356;  
P35232;P45973;O75376;P43355;Q02078;Q14693}  
688 Pathogen[ P0C214] interacts with 41 human  
partners:{Q14526;Q15327;Q13547;Q8N5D0;Q6BDS2;Q969S8;P48552;Q02080;O75496;P56524;Q6W2J  
9;Q9H091;P43355;Q09028;Q02078;P13056;Q14814;O43809;Q9UKV0;O75376;O43593;P11388;O15379  
;O14593;P43356;Q92831;Q9H9E1;Q92830;Q8IXJ6;P45973;P52292;P22415;P35232;Q99638;P31946;  
Q9Y618;Q01664;P08047;Q9H7L9;O94983;Q14693}  
689 Pathogen[ P03346] interacts with 48 human  
partners:{Q969S8;Q02078;P45973;Q9H091;Q14814;P43355;P11388;O15379;P62258;P56524;Q1532  
7;P13056;Q8IXJ6;Q92831;Q99638;O75626;P08047;O43593;Q14526;O43680;Q92830;Q9H9E1;P17542  
;Q9C0J9;Q8N5D0;Q13547;Q09028;Q02086;O75376;O94983;O14593;P43356;O43809;P31946;Q9UKV0;  
P52292;Q02080;P48552;Q9H7L9;P35232;Q6BDS2;Q9Y618;Q01664;Q6W2J9;Q96M02;O75496;P22415;Q  
14693}  
690 Pathogen[ Q85601] interacts with 43 human  
partners:{Q969S8;Q96M02;O75496;Q9UKV0;Q02078;P31946;Q14814;Q9Y618;Q92831;Q02080;P0804  
7;Q14526;P22415;Q92830;Q8IXJ6;P62258;P45973;P11388;Q15327;O75376;O94983;O14593;Q09028  
;P56524;O15379;P52292;P35232;Q13547;P43356;Q9H9E1;O75626;P13056;P48552;O43593;P43355;  
Q9H7L9;Q9H091;Q01664;Q8N5D0;Q99638;O43809;Q6W2J9;Q14693}  
691 Pathogen[ P14079] interacts with 40 human  
partners:{O43809;P48552;O15379;P11388;P13056;Q02078;Q8N5D0;Q14693;Q92830;O75626;Q969S  
8;Q9UKV0;P35232;P43356;Q6W2J9;P45973;Q96M02;Q9H9E1;P45983;P31946;Q01664;Q9H091;Q15327  
;O14593;P62258;Q8IXJ6;Q14814;O75376;Q99638;P56524;Q9H7L9;Q6BDS2;Q09028;P43355;Q02080;  
O43593;P52292;O75496;P22415;O94983}  
692 Pathogen[ P03383] interacts with 38 human  
partners:{Q9Y618;Q09028;Q92831;Q02080;P08047;O75376;Q14526;P31946;Q9H7L9;O94983;Q1481  
4;Q01664;Q6W2J9;P45973;P52292;Q92830;O15379;P35232;O14593;Q13547;O43809;Q15327;Q99638  
;Q9UKV0;P56524;P43356;P48552;P62258;P13056;Q9H091;Q8N5D0;Q02078;Q969S8;O75496;P43355;  
P22415;Q6BDS2;Q14693}  
693 Pathogen[ P03410] interacts with 44 human  
partners:{Q92830;Q96M02;Q92831;Q9UKV0;P62258;Q8IXJ6;Q14526;Q6W2J9;Q14814;P43355;P4597  
3;O75376;Q15327;Q14693;O43809;Q969S8;Q09028;Q99638;O15379;P56524;P22415;Q9H7L9;Q8N5D0  
;P11388;O14593;Q6BDS2;Q13547;Q01664;O75496;Q02078;Q9H091;P08047;O75626;Q9Y618;Q02080;  
O94983;P35232;P52292;P48552;P43356;Q9H9E1;O43593;P31946;P13056}  
694 Pathogen[ P14075] interacts with 38 human  
partners:{P52292;P43355;O43809;Q14526;Q969S8;Q92831;Q8N5D0;Q15327;P56524;Q02080;Q9H09  
1;P45973;Q9UKV0;O94983;Q13547;P13056;Q9Y618;O75376;P35232;Q99638;Q09028;Q01664;Q6W2J9  
;O14593;Q02078;P43356;O15379;P48552;P31946;P22415;O75496;Q6BDS2;Q92830;Q14814;Q9H7L9;  
P62258;Q14693;P08047}  
695 Pathogen[ P0C206] interacts with 45 human  
partners:{Q96M02;P45973;Q92830;O75496;Q02078;P43356;Q6W2J9;Q9H091;Q15327;Q9UKV0;Q9C0J  
9;Q9H9E1;O75626;Q13547;P43355;P13056;O43809;Q92831;Q6BDS2;P31946;Q99638;O14593;Q02080  
;P22415;P62258;P35232;O15379;P08047;O75376;Q8IXJ6;Q9H7L9;Q01664;Q09028;Q14814;P11388;  
P56524;Q14526;Q8N5D0;P48552;Q969S8;Q14693;O43593;O94983;P52292;Q9Y618}  
696 Pathogen[ P03363] interacts with 41 human  
partners:{P62258;Q9H091;Q8N5D0;Q14526;Q09028;Q92831;Q9H7L9;P45973;O15379;Q969S8;P3194  
6;O75376;Q6BDS2;Q9C0J9;Q02080;O94983;O14593;Q96M02;Q15327;P48552;O43593;O43809;Q14814  
;Q92830;Q9UKV0;Q9H9E1;Q9Y618;P22415;Q13547;Q99638;O75496;P35232;P08047;Q6W2J9;O75626;  
P43355;P52292;P43356;P13056;Q01664;Q02078}  
697 [Cluster 64]GO:0045502+F molecular\_function [name] dynein binding [def]  
"Interacting selectively and non-covalently with dynein, the multisubunit protein complex  
that is associated with microtubules." [GOC

698 Pathogen[ Q2Q067] interacts with 1 human partners:{P49454}  
699 Pathogen[ P0C214] interacts with 3 human partners:{Q96G01;O00399;P49454}  
700 Pathogen[ P03346] interacts with 4 human partners:{Q96G01;O43313;O00399;P49454}  
701 Pathogen[ Q85601] interacts with 4 human partners:{P49454;Q96G01;O00399;Q9BVA0}  
702 Pathogen[ P14079] interacts with 7 human  
partners:{O00399;Q7Z4L9;Q96G01;Q9UQE7;P49454;O43313;Q9BVA0}  
703 Pathogen[ P03383] interacts with 1 human partners:{P49454}  
704 Pathogen[ P03410] interacts with 6 human  
partners:{Q9UQE7;Q7Z4L9;O00399;P49454;Q96G01;Q9BVA0}  
705 Pathogen[ P14075] interacts with 1 human partners:{P49454}  
706 Pathogen[ P0C206] interacts with 6 human  
partners:{Q9BVA0;O43313;P49454;Q9UQE7;O00399;Q96G01}  
707 Pathogen[ P03363] interacts with 2 human partners:{P49454;O00399}  
708 [Cluster 65]GO:0004505+F molecular\_function [name] phenylalanine 4-monooxygenase  
activity [def] "Catalysis of the reaction  
709 Pathogen[ Q2Q067] interacts with 2 human partners:{P61457;Q9H0N5}  
710 Pathogen[ P0C214] interacts with 2 human partners:{P61457;Q9H0N5}  
711 Pathogen[ P03346] interacts with 2 human partners:{P61457;Q9H0N5}  
712 Pathogen[ Q85601] interacts with 2 human partners:{Q9H0N5;P61457}  
713 Pathogen[ P14079] interacts with 2 human partners:{P61457;Q9H0N5}  
714 Pathogen[ P03383] interacts with 2 human partners:{P61457;Q9H0N5}  
715 Pathogen[ P03410] interacts with 2 human partners:{Q9H0N5;P61457}  
716 Pathogen[ P14075] interacts with 2 human partners:{Q9H0N5;P61457}  
717 Pathogen[ P0C206] interacts with 2 human partners:{P61457;Q9H0N5}  
718 Pathogen[ P03363] interacts with 2 human partners:{Q9H0N5;P61457}  
719 [Cluster 66]GO:0005178+F molecular\_function [name] integrin binding [def]  
"Interacting selectively and non-covalently with an integrin." [GOC  
720 Pathogen[ Q2Q067] interacts with 3 human partners:{P14136;P27797;P11532}  
721 Pathogen[ P0C214] interacts with 3 human partners:{P14136;P11532;P27797}  
722 Pathogen[ P03346] interacts with 4 human partners:{Q96RT1;P14136;P27797;P11532}  
723 Pathogen[ Q85601] interacts with 4 human partners:{Q96RT1;P14136;P11532;P27797}  
724 Pathogen[ P14079] interacts with 4 human partners:{P11532;Q96RT1;P14136;Q13316}  
725 Pathogen[ P03383] interacts with 3 human partners:{P14136;P11532;P27797}  
726 Pathogen[ P03410] interacts with 5 human  
partners:{Q96RT1;P11532;P14136;Q13316;P27797}  
727 Pathogen[ P14075] interacts with 3 human partners:{P11532;P14136;P27797}  
728 Pathogen[ P0C206] interacts with 5 human  
partners:{Q96RT1;P27797;Q13316;P14136;P11532}  
729 Pathogen[ P03363] interacts with 4 human partners:{Q96RT1;P27797;P11532;P14136}  
730 [Cluster 67]GO:0008134+F molecular\_function [name] transcription factor binding [def]  
"Interacting selectively and non-covalently with a transcription factor, any protein  
required to initiate or regulate transcription." [ISBN  
731 Pathogen[ Q2Q067] interacts with 136 human  
partners:{Q13562;P49454;P27540;P17544;Q8IXJ6;O00213;Q9GZT8;O75832;Q9Y5Q3;P56524;Q9300  
9;Q9BY41;P10827;P20226;P63104;Q05066;Q9NPB6;P06400;Q01094;Q9UKV0;Q8WW38;P40763;P14921  
;P01106;Q16666;Q14690;P31268;Q9NQ87;O96004;Q01196;P20749;Q04206;Q92870;Q13547;O94983;  
O95999;O15379;Q14192;Q9UER7;O75586;Q96ST3;O15350;P35638;Q9NPI1;P52657;Q8WUF5;P63279;P  
17676;P38935;P08047;Q8N726;P11831;P15172;Q00577;Q9Y295;P28069;O00170;P63165;Q9BQG0;Q0  
8050;Q9UQL6;O43524;P78317;P23769;Q6W2J9;Q14186;P40337;Q99750;P26358;Q92831;Q96MT3;P67  
870;O60934;Q96DB2;Q15306;Q14978;P84022;Q01658;O94888;Q92769;O43251;Q13127;Q719H9;P098  
74;P0DI81;Q16254;Q15742;Q96H20;Q13506;Q15329;P35869;Q96QR8;Q16514;Q8IX07;O60907;Q1579  
6;Q96JN0;Q13363;Q15466;P28749;Q14839;Q9Y543;P25963;Q15545;P52655;Q14209;P45984;P17096  
;Q04724;P35269;Q9Y5J3;O60504;Q9NP71;Q92793;Q01860;Q5TGS1;P21675;Q9HBD4;Q8TEK3;Q14188;  
Q6STE5;P23497;Q71SY5;P15923;Q12857;Q9UMX1;Q99814;Q14689;P40425;Q96EY1;Q12830;Q9P1T7;P  
40424;P53567;P49715;Q00403}  
732 Pathogen[ P0C214] interacts with 133 human  
partners:{P40424;O00170;P53567;Q15742;O00213;Q16254;P35869;Q71SY5;Q13363;Q13547;Q96JN  
0;P14921;Q8WUF5;O75586;P52657;P21675;Q96QR8;O94888;Q96DB2;P52655;P35269;O60907;O15350  
;Q9HBD4;Q9BQG0;P23769;Q92793;Q9Y5J3;Q9Y295;P84022;P17096;Q14689;P15172;P56524;Q6W2J9;  
P17544;P11831;Q00403;Q04206;Q6STE5;P63279;Q9Y5Q3;Q16666;Q8N726;Q04724;Q9Y6I3;Q15545;P  
38935;O00308;Q99750;Q96MT3;P17676;P78317;Q9GZT8;Q01094;O75832;Q13506;Q9NPB6;Q14186;P1  
5923;Q9UER7;Q14978;P63165;Q00577;Q9Y543;P26358;O95999;Q92769;Q9UH92;Q5SW24;P20749;Q15  
329;Q9UKV0;Q8WW38;P40337;P0DI81;Q15796;Q14192;P25963;Q9NP71;Q93009;O15379;Q9P1T7;Q146  
90;Q16514;Q8IX07;Q13127;P28069;P20226;P23497;P05412;Q12857;P28749;Q92831;Q719H9;Q9NPI  
1;P40425;Q99814;Q01658;Q8IXJ6;Q96ST3;P45984;Q86WV6;P40763;O60504;O96004;P27540;Q96H20  
;P67870;P16220;O43251;P49454;Q9NQ87;Q9UMX1;Q14209;Q01860;Q5TGS1;P01106;Q14188;Q9UQL6;  
P06400;P08047;Q96EY1;Q12830;Q92870;Q14839;P35638;Q15466;P09874;Q8TEK3;O94983;Q9BY41;Q  
15306}  
733 Pathogen[ P03346] interacts with 164 human  
partners:{P85037;Q96ST3;P05412;O00213;Q12830;Q9GZT8;Q96QR8;P45984;Q93009;P38935;Q1666  
6;P10827;P31268;Q9HBD4;Q6QHK4;O60907;P58012;Q8WYB5;P16220;Q9BQG0;P17676;O75586;Q05066  
;P35638;Q02535;Q8WW38;O94888;Q96DB2;P11831;Q15329;O15379;Q9NP62;Q12857;Q71SY5;P06400;  
P25963;Q00577;Q14188;Q96HZ4;Q15466;P23769;P15923;Q8TEK3;P15172;Q15796;P56524;Q9NPI1;Q  
04206;O00170;Q8IXJ6;Q9NPB6;Q08050;Q14209;Q15306;Q9Y5Q3;P63279;P27540;P26358;Q92831;O1  
5350;Q9BYE0;Q16254;O00409;Q01094;P49715;P17096;Q9Y5J3;Q01860;Q96H20;P08047;Q92870;O95  
999;P20226;Q96MT3;Q14919;O75832;O96004;P01106;P51843;Q9NP71;Q14186;P14921;Q92794;P840

- 22;Q15742;Q9Y295;Q14978;O95096;Q92769;Q14192;Q13547;Q6STE5;Q04724;P40425;Q13506;P63165;P0DI81;Q9BY41;P52657;Q99750;P17544;Q9UER7;Q9NQ87;Q16514;Q8IX07;Q99814;Q12778;O43251;Q01167;Q5TGS1;P98177;O94983;P78317;O95718;Q8WUF5;P09874;P40337;P28749;P20749;O60934;P21675;P63104;Q9UKV0;Q9H7Z6;P35269;P28069;Q9Y543;Q01658;Q99593;Q13363;P61968;P40424;Q01196;O60504;P23497;P53567;P67870;Q9Y6I3;Q9P1T7;Q9UH92;Q00403;Q92793;P35869;Q15545;Q8N726;Q07554;Q13562;P40763;O43524;Q96JN0;P52655;Q14690;Q9UMX1;P53539;Q9UQL6;Q96EY1;Q6W2J9;P49454;Q14839;Q13127;Q14689;Q9HCC6;O00308;Q9UJU5}
- 734 Pathogen[ Q85601] interacts with 139 human partners: {P01106;P52657;P78317;P49454;Q14978;O00213;Q86WV6;Q9UKV0;Q96QR8;P11831;P63104;P17676;Q16666;P09874;Q96DB2;Q13127;P17096;Q14689;P61968;Q93009;Q15466;Q9BQG0;Q9BY41;Q96H20;P15172;Q04724;P14921;Q9UQL6;Q6STE5;Q15329;Q8WW38;Q12857;P06400;P38935;P53567;O60907;P40337;O75832;Q13506;P40763;P28069;P23769;Q9UER7;Q15545;Q14188;Q9H7Z6;Q15306;Q99814;P27540;Q13363;P26358;O94888;Q92831;Q14690;Q15742;O96004;Q9NP71;P63279;Q12830;Q9Y5Q3;P08047;Q9UH92;Q96MT3;Q13562;O00170;Q14186;P40424;Q00577;Q9Y295;Q8N726;Q96JN0;Q8IXJ6;Q5TGS1;Q92769;P16220;Q04206;P40425;Q14192;Q71SY5;P0DI81;Q99750;P35269;P05412;Q9Y543;Q9NQ87;Q16514;Q8IX07;Q16254;Q01658;Q00403;Q9NPB6;Q14209;O94983;P15923;P10827;Q8WUF5;Q8TEK3;P17544;P28749;Q9HBD4;P84022;Q9NPI1;P49715;P63165;P45984;P56524;Q92870;O15379;P21675;Q08050;P35869;O60504;P52655;O15350;Q9Y6I3;Q13547;P67870;O95999;Q9P1T7;Q92793;O75586;P19447;Q9UMX1;P53539;Q01860;Q96EY1;P20749;Q01094;Q9Y5J3;Q15796;Q14839;P20226;Q719H9;Q6W2J9;P35638;Q5SW24;O60934;Q96ST3;P25963}
- 735 Pathogen[ P14079] interacts with 118 human partners: {Q9UQL6;Q96JN0;O15379;Q9NPI1;Q9Y5U4;P09874;Q13506;Q9Y5Q3;P63279;P35869;Q99814;Q6STE5;O94888;Q96H20;P28749;P35269;Q14186;Q96DB2;O95999;Q14192;Q96QR8;P53567;Q5SW24;Q9Y6I3;Q96ST3;Q8WUF5;Q16254;Q02083;Q92793;O00170;Q15329;P17096;Q15742;O60907;Q9UMX1;Q14209;Q9UKV0;Q719H9;O95718;P35611;P45984;P63104;P28069;Q6W2J9;P40337;Q00403;O75586;Q01860;Q9UER7;P17544;Q92769;Q86WV6;Q8TEK3;P49715;P27540;Q9BQG0;Q12830;Q9Y5J3;Q9BY41;Q5TGS1;P26358;Q8IX07;Q14689;P35638;P01106;Q9UH92;P52657;Q00577;Q8IXJ6;Q71SY5;Q04724;Q14839;P20749;P78317;P67870;Q9P1T7;P49454;P38935;Q9NQ87;P0DI81;P05412;Q15466;Q9NPB6;P56524;Q13127;Q16514;Q12857;Q01094;Q96MT3;Q9NP71;Q14188;P23769;Q01658;Q96EY1;Q8WW38;P19447;Q14690;P21675;Q16666;P13693;Q14978;Q99750;Q15545;Q92870;Q9Y295;O94983}
- 736 Pathogen[ P03383] interacts with 120 human partners: {Q15329;Q9BQG0;Q719H9;Q14978;O00213;P49454;Q12830;Q92831;P11831;Q9UH92;Q14839;Q9HBD4;P08047;Q14209;P17096;P16220;P27540;P28069;P17544;P35269;P40337;P15172;Q01094;P14921;Q9UQL6;Q9Y5Q3;Q96H20;P01106;Q8WW38;P40424;O60907;Q9Y295;P20749;Q6STE5;P52655;P23769;Q9GZT8;Q96MT3;Q9NQ87;O94983;Q15742;P35638;P15923;O00170;Q01860;P78317;O94888;Q15306;Q14690;Q04724;P06400;Q9NP71;Q92870;Q00403;P20226;Q6W2J9;O75832;P52657;Q13506;O96004;Q14186;P84022;Q12857;P63104;Q14192;Q92769;P17676;P09874;Q15466;Q16254;P63165;P0DI81;Q9NPB6;O15379;O15350;Q9UER7;Q16514;Q16666;P25963;O95999;Q96JN0;Q8WUF5;Q13547;Q9BY41;P28749;Q71SY5;P67870;P23497;Q14188;Q9UKV0;Q99750;Q15796;P21675;P56524;Q00577;Q04206;P45984;P53567;O60504;Q9NPI1;Q96ST3;P38935;Q5TGS1;Q9P1T7;Q8TEK3;O75586;Q15545;Q96QR8;P35869;Q01658;Q9UMX1;P26358;Q96EY1;P63279;P40425;Q13363;Q92793;Q13127;Q8N726;P05412}
- 737 Pathogen[ P03410] interacts with 132 human partners: {P84022;Q92831;P20749;Q9Y5J3;Q9UKV0;Q04206;P28069;Q8IXJ6;P11831;P52655;Q16666;P35638;Q9BY41;Q15329;Q6W2J9;O96004;Q02083;P17676;Q9Y6I3;Q8N726;P01106;P63165;Q99814;Q01860;P21675;Q9NQ87;P53567;Q8TEK3;Q12857;Q16254;Q9Y5U4;Q12830;Q14978;Q9Y543;Q04724;Q14689;P17096;O00213;P20226;P06400;Q9BQB4;P15923;P52657;Q14188;Q96ST3;Q9Y295;Q15306;Q8WW38;Q00577;P17544;P49454;Q9UQL6;Q9Y5Q3;P26358;P27540;Q13127;P0DI81;Q92793;P38935;Q719H9;Q8IX07;Q9P1T7;Q9UER7;O95999;Q92769;Q5TGS1;Q16514;O00170;Q5SW24;P78317;O15379;P56524;Q9NP71;P19447;Q01658;Q14186;P13693;P09874;P16220;Q15466;Q00403;P35269;Q9BQG0;O60504;P05412;P63104;Q96JN0;P28749;Q15742;P45984;P23769;Q13547;Q01094;P63279;Q9NPB6;O15350;Q86WV6;P08047;Q9UH92;Q14209;Q6STE5;P25963;Q96QR8;P67870;O94983;Q96H20;Q96MT3;Q9HBD4;P40424;Q15796;Q14839;P40763;Q9UMX1;O60907;P35611;Q99750;Q14192;Q96EY1;O60934;Q15545;Q9NPI1;O94888;O75832;P40337;Q13506;O75586;P14921;Q14690;Q96DB2;Q8WUF5;Q71SY5;Q92870}
- 738 Pathogen[ P14075] interacts with 122 human partners: {P28069;Q9BY41;Q96ST3;O00213;P35869;P63165;Q96QR8;Q96MT3;Q14690;Q9GZT8;P23497;Q04206;P21675;Q5TGS1;Q9HBD4;P40424;P52657;Q9Y295;Q9NPI1;P05412;P40425;O75832;Q92831;P11831;Q13506;P53567;Q02083;Q01658;O94888;Q00403;P23769;Q01860;P38935;Q14839;P15172;P17096;P56524;Q08050;Q9P1T7;Q9UH92;Q92870;P35638;Q719H9;Q8WUF5;Q9UKV0;Q8WW38;P20226;P63279;Q16666;O94983;Q15796;Q9NQ87;P15923;Q14209;P25963;Q13547;P26358;P01106;Q96H20;P27540;O75586;O96004;Q9NP71;Q14186;Q12857;Q9BQG0;O00170;Q12830;Q6W2J9;O15350;Q16254;Q92769;Q9Y5Q3;P67870;P0DI81;P35269;P52655;Q15306;Q99750;Q16514;O60907;P63104;Q15545;P78317;Q01094;P14921;O95999;P06400;Q15742;P28749;O15379;Q8TEK3;Q00577;Q92793;Q13127;Q15466;O60504;Q9UQL6;Q04724;P16220;Q13363;Q9NPB6;Q15329;P84022;Q9UER7;P17676;Q96JN0;Q6STE5;Q71SY5;P40337;P17544;Q14188;P49454;Q9UMX1;Q14192;Q14978;Q96EY1;Q8N726;P09874;P20749;P45984;P08047}
- 739 Pathogen[ P0C206] interacts with 147 human partners: {P84022;P53567;Q8WUF5;Q9NQ87;Q14188;Q92769;Q15329;Q9Y295;Q15466;O75832;Q96ST3;Q15545;Q16514;P38935;Q9NP71;P40425;Q9UH92;Q13127;O60504;Q9Y5Q3;P14921;Q9NPI1;Q8N726;Q5TGS1;P20226;O00308;Q96MT3;P16220;P35869;P17544;Q9UMX1;P09874;Q14690;O60907;Q6W2J9;Q05066;P45984;Q01860;P52657;Q96DB2;O60934;P52655;Q96QR8;O95999;Q6STE5;P05412;Q9UKV0;Q8WW38;P25963;O75586;Q16666;P26358;Q9UER7;Q15306;Q13547;Q14186;P49715;P31268;Q93009;O94888;Q86WV6;P49454;P78317;Q15796;Q92831;Q96HZ4;Q16254;P40424;P28749;O96004;P19447;Q9BYE0;Q92793;Q12857;Q5SW24;Q14839;Q15742;O00213;P63104;O95718;Q14209;Q14919;P35269;Q9BQG0;Q9Y543;P17676;Q96H20;O15379;P08047;Q9Y5J3;Q96JN0;Q01658;Q04206;P15923;Q01094;P53539;P67870;Q02083;Q92870;Q9NPB6;Q9Y6I3;P40763;Q71SY5;Q8IXJ6;Q04724;P17096;Q13562;P23769}

;Q8TEK3;P11831;Q08050;P20749;Q8IX07;Q719H9;O15350;P27540;P15172;Q9HBD4;Q14192;P01106;O00170;Q99814;Q9BY41;Q14689;P63165;P56524;P61968;P28069;Q13363;Q00403;Q96EY1;O94983;Q12830;Q99750;Q9P1T7;P35638;Q9NP62;P10827;Q9H7Z6;P21675;P0DI81;Q14978;P40337;Q13506;P06400;Q00577;Q9UQL6}

740 Pathogen[ P03363] interacts with 132 human partners: {Q719H9;Q5TGS1;Q14978;P49454;Q12830;Q9UH92;Q15466;Q9Y5J3;Q04206;P27540;P17676;Q6STE5;Q02083;P53567;Q9UMX1;Q71SY5;P0DI81;Q9BY41;P53539;Q96MT3;Q92831;P25963;O00213;Q9NQ87;O15379;Q99750;O94888;Q16514;Q9BQG0;Q9GZT8;Q96HZ4;O60907;Q15545;P78317;Q16254;P16220;Q9Y295;Q9NPB6;Q96QR8;O94983;Q9UQL6;P14921;Q9UER7;Q8TEK3;Q8WUF5;Q15306;Q96JN0;Q04724;Q14839;P23497;P06400;P40337;Q14689;Q96H20;P01106;O00409;P28749;P35869;Q9BYE0;P52657;Q13127;P35269;Q16666;P40425;O43524;P15923;P63104;Q14690;P20749;Q00403;Q9P1T7;Q05066;Q08050;P11831;P28069;P63165;Q13506;P17096;Q01094;Q9UKV0;Q96ST3;Q9HBD4;Q9NPI1;Q92870;Q14919;O75586;Q15796;P31268;P84022;Q01167;Q9HCC6;O96004;P26358;P35638;Q15742;Q14209;P63279;Q13547;Q99814;Q92793;P21675;O00308;P20226;P52655;Q8N726;Q14186;Q14188;P05412;P40424;P67870;Q9Y543;P09874;Q9NP71;Q13363;Q8WW38;P08047;Q6W2J9;Q01658;P17544;Q00577;Q96EY1;Q9UJU5;P15172;Q00170;Q12857;Q15329;Q9Y5Q3;P38935;Q01860;O43251;Q14192;Q6QHK4}

741 [Cluster 68]GO:0043422+F molecular\_function [name] protein kinase B binding [def] "Interacting selectively and non-covalently with protein kinase B, an intracellular kinase that is important in regulating glucose metabolism." [GOC

742 Pathogen[ Q2Q067] interacts with 2 human partners: {O95999;Q9UKG1}

743 Pathogen[ P0C214] interacts with 2 human partners: {Q9UKG1;O95999}

744 Pathogen[ P03346] interacts with 2 human partners: {O95999;Q9UKG1}

745 Pathogen[ Q85601] interacts with 2 human partners: {Q9UKG1;O95999}

746 Pathogen[ P14079] interacts with 2 human partners: {Q9UKG1;O95999}

747 Pathogen[ P03383] interacts with 1 human partners: {O95999}

748 Pathogen[ P03410] interacts with 2 human partners: {O95999;Q9UKG1}

749 Pathogen[ P14075] interacts with 1 human partners: {O95999}

750 Pathogen[ P0C206] interacts with 2 human partners: {Q9UKG1;O95999}

751 Pathogen[ P03363] interacts with 1 human partners: {Q9UKG1}

752 [Cluster 69]GO:0071889+F molecular\_function [name] 14-3-3 protein binding [def] "Interacting selectively and non-covalently with a 14-3-3 protein. A 14-3-3 protein is any of a large family of approximately 30kDa acidic proteins which exist primarily as homo- and heterodimers within all eukaryotic cells, and have been implicated in the modulation of distinct biological processes by binding to specific phosphorylated sites on diverse target proteins, thereby forcing conformational changes or influencing interactions between their targets and other molecules. Each 14-3-3 protein sequence can be roughly divided into three sections

753 Pathogen[ Q2Q067] interacts with 4 human partners: {O14974;Q9UMS6;Q8WUI4;P26651}

754 Pathogen[ P0C214] interacts with 4 human partners: {Q9UMS6;O14974;P26651;Q8WUI4}

755 Pathogen[ P03346] interacts with 4 human partners: {Q9UMS6;Q8WUI4;P26651;O14974}

756 Pathogen[ Q85601] interacts with 4 human partners: {Q9UMS6;P26651;O14974;Q8WUI4}

757 Pathogen[ P14079] interacts with 4 human partners: {Q8WUI4;O14974;Q9NX09;Q9UMS6}

758 Pathogen[ P03383] interacts with 3 human partners: {Q9UMS6;P26651;Q8WUI4}

759 Pathogen[ P03410] interacts with 5 human partners: {Q9UMS6;P26651;Q8WUI4;O14974;Q9NX09}

760 Pathogen[ P14075] interacts with 3 human partners: {P26651;Q9UMS6;Q8WUI4}

761 Pathogen[ P0C206] interacts with 4 human partners: {P26651;Q9UMS6;O14974;Q8WUI4}

762 Pathogen[ P03363] interacts with 4 human partners: {O14974;Q8WUI4;P26651;Q9UMS6}

763 [Cluster 70]GO:0004402+F molecular\_function [name] histone acetyltransferase activity [def] "Catalysis of the reaction

764 Pathogen[ Q2Q067] interacts with 30 human partners: {Q16594;Q9NXR8;Q9H9T3;Q15596;O75478;O14929;O75486;Q9UKN8;Q9H0E3;Q15542;Q6ZRS2;O75448;Q12962;O75529;Q9H8E8;Q92831;O75528;Q92830;Q16514;Q92993;Q9NRL2;Q9Y6J9;Q8IZX4;O94864;Q92793;P21675;Q9H2F5;O60869;Q96BN2;Q96EB1}

765 Pathogen[ P0C214] interacts with 32 human partners: {Q92993;O75486;Q9NRL2;O75528;Q9Y6J9;P21675;O75478;O14929;Q92793;Q6ZRS2;Q9UKN8;Q12962;Q96BN2;Q9Y232;O94864;Q9H2F5;Q16594;Q15542;Q16514;Q95251;Q4LE28;Q8IZX4;O75529;Q9H9T3;Q92831;O75448;Q92830;Q15596;O60869;Q96EB1;Q9H8E8;Q9H0E3}

766 Pathogen[ P03346] interacts with 39 human partners: {Q9Y6J9;Q15542;Q15788;Q8WYB5;O75486;Q9H8E8;Q9H0E3;Q92831;Q9NRL2;Q9UKN8;Q4LE28;O75448;Q92830;Q96BN2;Q92794;O94864;O75478;Q15596;Q9H9T3;O75528;O75529;O95251;P51587;Q9H2F5;Q16514;Q12962;Q6ZRS2;P21675;Q9H7Z6;Q9Y232;Q8IZX4;O15516;Q92993;Q92793;O60869;Q96EB1;Q9NXR8;O14929;Q16594}

767 Pathogen[ Q85601] interacts with 35 human partners: {Q15542;Q9H2F5;O94864;O75528;O95251;Q9H0E3;Q9H9T3;O15516;Q9H7Z6;O75448;Q92831;Q16594;Q15596;Q8IZX4;Q9Y6J9;Q9UKN8;Q92830;O14929;O75529;Q9H8E8;Q6ZRS2;Q16514;Q96EB1;Q9NRL2;P21675;Q96BN2;Q12962;Q4LE28;O75486;Q92993;Q92793;O60869;Q9NXR8;O75478;P51587}

768 Pathogen[ P14079] interacts with 32 human partners: {Q9H0E3;Q8IZX4;Q15596;Q9Y6J9;O75528;Q16594;Q92830;Q9UKN8;Q92793;Q9NRL2;Q9H8E8;O95251;O75529;P51587;Q6ZRS2;Q96EB1;O60869;O94864;Q96BN2;O75448;O14929;Q9H9T3;Q12962;O60502;Q15788;Q9H2F5;O75478;Q16514;O75486;Q15542;Q92993;P21675}

769 Pathogen[ P03383] interacts with 30 human partners: {Q9Y6J9;Q9UKN8;Q92831;O75478;Q15596;O75486;O95251;O94864;Q4LE28;Q9H2F5;Q15542;Q8IZX4;Q96BN2;Q92993;Q96EB1;O75448;O75529;Q16594;Q9H8E8;O14929;Q92830;Q16514;P21675;Q9NRL2;Q12962;O60869;Q9H9T3;Q92793;Q9H0E3}

770 Pathogen[ P03410] interacts with 34 human

771 partners:{Q92830;Q92831;Q8IZX4;O14929;O95251;Q12962;P21675;O60502;O75528;Q9H9T3;Q96EB1;O75486;Q9H0E3;Q9H2F5;Q6ZRS2;Q92793;Q96BN2;Q9NRL2;Q16514;Q9NXR8;P51587;O94864;Q9Y6J9;Q16594;Q4LE28;Q15596;O60869;Q9H8E8;Q15542;O75478;O75529;Q9UKN8;Q92993;O75448}  
Pathogen[ P14075] interacts with 30 human

772 partners:{Q96EB1;Q9Y6J9;Q12962;Q9H2F5;P21675;Q15542;Q92831;Q9NRL2;O75448;O14929;Q96BN2;Q16594;Q92993;Q9H0E3;O94864;O75478;Q4LE28;O75528;Q9H8E8;Q16514;O95251;Q9H9T3;Q92793;Q9UKN8;O75486;O75529;O60869;Q92830;Q15596;Q8IZX4}  
Pathogen[ P0C206] interacts with 36 human

773 partners:{O75486;Q9Y232;O75528;Q92830;Q9H2F5;Q16514;O95251;O94864;Q9H9T3;P51587;Q6ZRS2;Q9NRL2;Q92993;Q9Y6J9;O75529;Q9NXR8;Q92831;Q8IZX4;Q92793;Q9H0E3;O15516;O14929;Q9UKN8;O75478;O60869;Q15542;Q15596;Q96EB1;Q96BN2;O75448;Q12962;Q15788;Q9H7Z6;P21675;Q4LE28;Q16594}  
Pathogen[ P03363] interacts with 31 human

774 partners:{Q8IZX4;Q9H8E8;Q4LE28;Q9NRL2;Q92831;Q6ZRS2;Q9H2F5;Q16514;O94864;Q15596;Q12962;O75529;Q96BN2;Q92830;Q96EB1;Q15542;O14929;Q92793;O75448;O60869;P21675;O75486;Q9H0E3;O75478;Q9UKN8;Q9H9T3;O95251;Q92993;Q9Y6J9;O75528;Q16594}  
[Cluster 71]GO:0019215+F molecular\_function [name] intermediate filament binding [def] "Interacting selectively and non-covalently with an intermediate filament, a distinct elongated structure, characteristically 10 nm in diameter, that occurs in the cytoplasm of higher eukaryotic cells. Intermediate filaments form a fibrous system, composed of chemically heterogeneous subunits and involved in mechanically integrating the various components of the cytoplasmic space." [ISBN

775 Pathogen[ Q2Q067] interacts with 1 human partners:{O15061}  
776 Pathogen[ P0C214] interacts with 1 human partners:{O15061}  
777 Pathogen[ P03346] interacts with 2 human partners:{O15061;Q13835}  
778 Pathogen[ Q85601] interacts with 1 human partners:{O15061}  
779 Pathogen[ P14079] interacts with 3 human partners:{Q13835;O15061;P48681}  
780 Pathogen[ P03383] interacts with 1 human partners:{O15061}  
781 Pathogen[ P03410] interacts with 2 human partners:{O15061;Q13835}  
782 Pathogen[ P14075] interacts with 1 human partners:{O15061}  
783 Pathogen[ P0C206] interacts with 2 human partners:{O15061;Q13835}  
784 Pathogen[ P03363] interacts with 2 human partners:{Q13835;O15061}

785 [Cluster 72]GO:0004532+F molecular\_function [name] exoribonuclease activity [def] "Catalysis of the sequential cleavage of mononucleotides from a free 5' or 3' terminus of an RNA molecule." [GOC

786 Pathogen[ Q2Q067] interacts with 8 human partners:{Q9NQT4;Q06265;Q13868;Q9Y3B2;Q9NPD3;Q5RKV6;Q15024;Q96B26}  
787 Pathogen[ P0C214] interacts with 8 human partners:{Q15024;Q9Y3B2;Q5RKV6;Q9NPD3;Q13868;Q06265;Q9NQT4;Q96B26}  
788 Pathogen[ P03346] interacts with 9 human partners:{Q5RKV6;Q96B26;Q9Y3B2;Q15024;Q9NQT5;Q06265;Q9NQT4;Q9NPD3;Q13868}  
789 Pathogen[ Q85601] interacts with 8 human partners:{Q5RKV6;Q9NPD3;Q13868;Q9NQT4;Q9Y3B2;Q15024;Q06265;Q96B26}  
790 Pathogen[ P14079] interacts with 8 human partners:{Q9Y3B2;Q15024;Q9NQT4;Q13868;Q9NPD3;Q5RKV6;Q96B26;Q06265}  
791 Pathogen[ P03383] interacts with 8 human partners:{Q06265;Q9Y3B2;Q9NPD3;Q9NQT4;Q96B26;Q5RKV6;Q13868;Q15024}  
792 Pathogen[ P03410] interacts with 8 human partners:{Q06265;Q5RKV6;Q13868;Q96B26;Q15024;Q9NQT4;Q9NPD3;Q9Y3B2}  
793 Pathogen[ P14075] interacts with 8 human partners:{Q9NPD3;Q13868;Q9NQT4;Q5RKV6;Q96B26;Q15024;Q06265;Q9Y3B2}  
794 Pathogen[ P0C206] interacts with 8 human partners:{Q9NPD3;Q5RKV6;Q13868;Q96B26;Q06265;Q15024;Q9Y3B2;Q9NQT4}  
795 Pathogen[ P03363] interacts with 8 human partners:{Q96B26;Q9NQT4;Q5RKV6;Q15024;Q9Y3B2;Q9NPD3;Q13868;Q9NQT5}

796 [Cluster 73]GO:0045296+F molecular\_function [name] cadherin binding [def] "Interacting selectively and non-covalently with cadherin, a type I membrane protein involved in cell adhesion." [GOC

797 Pathogen[ Q2Q067] interacts with 2 human partners:{Q92597;O60716}  
798 Pathogen[ P0C214] interacts with 2 human partners:{O60716;Q92597}  
799 Pathogen[ P03346] interacts with 3 human partners:{O60716;Q92597;Q9UI47}  
800 Pathogen[ Q85601] interacts with 2 human partners:{O60716;Q92597}  
801 Pathogen[ P14079] interacts with 5 human partners:{Q9UI47;P24588;Q92597;Q15078;O60716}  
802 Pathogen[ P03383] interacts with 2 human partners:{O60716;Q92597}  
803 Pathogen[ P03410] interacts with 4 human partners:{O60716;Q9UI47;Q92597;P24588}  
804 Pathogen[ P14075] interacts with 2 human partners:{Q92597;O60716}  
805 Pathogen[ P0C206] interacts with 3 human partners:{Q92597;O60716;Q9UI47}  
806 Pathogen[ P03363] interacts with 3 human partners:{Q9UI47;Q92597;O60716}

807 [Cluster 74]GO:0033677+F molecular\_function [name] DNA/RNA helicase activity [def] "Catalysis of the reaction

808 Pathogen[ Q2Q067] interacts with 1 human partners:{Q92499}  
809 Pathogen[ P0C214] interacts with 1 human partners:{Q92499}  
810 Pathogen[ P03346] interacts with 1 human partners:{Q92499}  
811 Pathogen[ Q85601] interacts with 1 human partners:{Q92499}  
812 Pathogen[ P14079] interacts with 1 human partners:{Q92499}

813 Pathogen[ P03383] interacts with 1 human partners:{Q92499}  
814 Pathogen[ P03410] interacts with 1 human partners:{Q92499}  
815 Pathogen[ P14075] interacts with 1 human partners:{Q92499}  
816 Pathogen[ P0C206] interacts with 1 human partners:{Q92499}  
817 Pathogen[ P03363] interacts with 1 human partners:{Q92499}  
818 [Cluster 75]GO:0035091+F molecular\_function [name] phosphatidylinositol binding [def]  
"Interacting selectively and non-covalently with any inositol-containing  
glycerophospholipid, i.e. phosphatidylinositol (PtdIns) and its phosphorylated  
derivatives." [GOC  
819 Pathogen[ Q2Q067] interacts with 6 human  
partners:{P55895;O00291;Q7Z614;Q96L92;Q9H160;Q96QT6}  
820 Pathogen[ P0C214] interacts with 6 human  
partners:{Q96QT6;Q7Z614;P55895;Q96L92;Q9H160;O00291}  
821 Pathogen[ P03346] interacts with 20 human  
partners:{Q13596;Q15036;Q92543;P55895;Q96QT6;Q86WG5;Q9UMY4;Q7Z614;O00291;Q9NRS6;O6049  
3;Q96L92;Q9UNH7;Q9Y5X2;O95219;O60749;Q5TCZ1;Q9H160;O75146;Q8WV41}  
822 Pathogen[ Q85601] interacts with 9 human  
partners:{Q13596;Q96QT6;Q15036;Q7Z614;Q96L92;O00291;Q9H160;Q9UNH7;P55895}  
823 Pathogen[ P14079] interacts with 22 human  
partners:{Q9UNH7;Q15036;O00291;O75146;Q8WV41;Q9C0B9;O60493;Q8N9S9;Q9NRS6;Q96L92;Q9H3E  
2;Q96QT6;Q8WYQ9;Q9Y5X2;O60749;Q13596;Q7Z614;Q86WG5;Q92543;Q9UMY4;Q5TCZ1;Q9H160}  
824 Pathogen[ P03383] interacts with 6 human  
partners:{Q96QT6;Q7Z614;Q96L92;O00291;Q9H160;P55895}  
825 Pathogen[ P03410] interacts with 25 human  
partners:{Q8WV41;Q96QT6;Q7Z614;Q96L92;Q13596;Q0JRZ9;Q9H3E2;O60749;P55895;O00291;Q9UMY  
4;O75146;O95219;Q9UNH7;Q9C0B9;Q9H160;Q15036;Q8N9S9;Q9NRS6;Q8WYQ9;Q5TCZ1;Q92543;O60493  
;Q9Y5X2;Q86WG5}  
826 Pathogen[ P14075] interacts with 6 human  
partners:{Q96QT6;Q7Z614;O00291;Q9H160;P55895;Q96L92}  
827 Pathogen[ P0C206] interacts with 17 human  
partners:{Q96L92;Q8N9S9;O00291;Q9UNH7;Q9NRS6;Q9C0B9;O60493;Q13596;Q5TCZ1;Q9H160;Q1503  
6;Q8WV41;O60749;Q9H3E2;P55895;Q7Z614;Q96QT6}  
828 Pathogen[ P03363] interacts with 19 human  
partners:{Q9H160;Q96QT6;Q9UNH7;Q92543;Q96L92;O95219;Q9UMY4;O60493;O60749;Q8WV41;Q5TCZ  
1;Q8IYM1;Q5VWJ9;Q86WG5;Q7Z614;Q13596;O75146;P55895;O00291}  
829 [Cluster 76]GO:0043167+F molecular\_function [name] ion binding [def] "Interacting  
selectively and non-covalently with ions, charged atoms or groups of atoms." [GOC  
830 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96GX9}  
831 Pathogen[ P0C214] interacts with 1 human partners:{Q96GX9}  
832 Pathogen[ P03346] interacts with 1 human partners:{Q96GX9}  
833 Pathogen[ Q85601] interacts with 1 human partners:{Q96GX9}  
834 Pathogen[ P14079] interacts with 1 human partners:{Q96GX9}  
835 Pathogen[ P03383] interacts with 1 human partners:{Q96GX9}  
836 Pathogen[ P03410] interacts with 1 human partners:{Q96GX9}  
837 Pathogen[ P14075] interacts with 1 human partners:{Q96GX9}  
838 Pathogen[ P0C206] interacts with 1 human partners:{Q96GX9}  
839 Pathogen[ P03363] interacts with 1 human partners:{Q96GX9}  
840 [Cluster 77]GO:0000171+F molecular\_function [name] ribonuclease MRP activity [def]  
"Catalysis of the site-specific cleavage of RNA by a catalytic RNA-mediated mechanism\_  
substrates include the A3 site in the ITS1 of pre-rRNA." [PMID  
841 Pathogen[ Q2Q067] interacts with 1 human partners:{Q99575}  
842 Pathogen[ P0C214] interacts with 1 human partners:{Q99575}  
843 Pathogen[ P03346] interacts with 1 human partners:{Q99575}  
844 Pathogen[ Q85601] interacts with 1 human partners:{Q99575}  
845 Pathogen[ P14079] interacts with 1 human partners:{Q99575}  
846 Pathogen[ P03383] interacts with 1 human partners:{Q99575}  
847 Pathogen[ P03410] interacts with 1 human partners:{Q99575}  
848 Pathogen[ P14075] interacts with 1 human partners:{Q99575}  
849 Pathogen[ P0C206] interacts with 1 human partners:{Q99575}  
850 Pathogen[ P03363] interacts with 1 human partners:{Q99575}  
851 [Cluster 78]GO:0036004+F molecular\_function [name] GAF domain binding [def]  
"Interacting selectively and non-covalently with the GAF domain of a protein." [GOC  
852 Pathogen[ Q2Q067] interacts with 1 human partners:{O00170}  
853 Pathogen[ P0C214] interacts with 1 human partners:{O00170}  
854 Pathogen[ P03346] interacts with 1 human partners:{O00170}  
855 Pathogen[ Q85601] interacts with 1 human partners:{O00170}  
856 Pathogen[ P14079] interacts with 1 human partners:{O00170}  
857 Pathogen[ P03383] interacts with 1 human partners:{O00170}  
858 Pathogen[ P03410] interacts with 1 human partners:{O00170}  
859 Pathogen[ P14075] interacts with 1 human partners:{O00170}  
860 Pathogen[ P0C206] interacts with 1 human partners:{O00170}  
861 Pathogen[ P03363] interacts with 1 human partners:{O00170}  
862 [Cluster 79]GO:0005542+F molecular\_function [name] folic acid binding [def]  
"Interacting selectively and non-covalently with folic acid, pteroylglutamic acid. Folic  
acid is widely distributed as a member of the vitamin B complex and is essential for the  
synthesis of purine and pyrimidines." [GOC

863 Pathogen[ Q2Q067] interacts with 2 human partners:{Q14749;P04818}  
864 Pathogen[ P0C214] interacts with 3 human partners:{P04818;Q9UI17;Q14749}  
865 Pathogen[ P03346] interacts with 1 human partners:{Q14749}  
866 Pathogen[ Q85601] interacts with 1 human partners:{Q14749}  
867 Pathogen[ P14079] interacts with 7 human  
partners:{Q53S99;O95954;Q96NT5;Q14749;Q9UI17;E5RQL4;P04818}  
868 Pathogen[ P03383] interacts with 1 human partners:{Q14749}  
869 Pathogen[ P03410] interacts with 5 human  
partners:{Q14749;Q9UI17;O95954;E5RQL4;P04818}  
870 Pathogen[ P14075] interacts with 1 human partners:{Q14749}  
871 Pathogen[ P0C206] interacts with 3 human partners:{O95954;P04818;Q14749}  
872 Pathogen[ P03363] interacts with 1 human partners:{Q14749}  
873 [Cluster 80]GO:0019899+F molecular\_function [name] enzyme binding [def]  
"Interacting selectively and non-covalently with any enzyme." [GOC  
874 Pathogen[ Q2Q067] interacts with 84 human  
partners:{Q9H2G9;O15234;P31749;Q13185;Q8IZD2;P24385;O75925;Q99638;O60296;O00267;P0640  
0;Q9H2K2;Q08209;P62258;P62318;P10828;O96004;O14618;O00257;Q04206;Q12933;Q13547;O95999  
;O15379;Q9UER7;P63279;Q9NZC7;P15172;P11388;Q9UJW3;Q12962;P62324;P06746;O15162;P40337;  
Q969S8;Q96S59;Q12834;P26368;Q92769;Q7RTS9;Q9Y6X2;O43679;P42575;Q8TF46;Q5VU43;P50570;Q  
9C0C2;Q15366;Q9UKV3;Q9UQK1;Q96RU7;Q9Y383;Q7L592;Q9BUJ2;P25963;Q14686;Q04917;P31946;P2  
2415;Q9C000;P17096;Q9UNE7;O96018;Q9BQE4;Q86U70;P68036;P30047;P9BQA5;P30047;Q9UKK3;P45  
973;Q96IZ0;O60888;Q9NT62;P83916;Q00987;Q13023;P42224;Q8WYA6;O15392;Q8N163;P31269;O760  
75}  
875 Pathogen[ P0C214] interacts with 91 human  
partners:{Q8N163;Q9Y6X2;O15234;P26368;P63000;Q13547;P16157;O75925;Q96IZ0;Q969S8;P0674  
6;Q04917;Q00987;O00267;Q9C0C2;P83916;Q13023;O60888;P17096;P15172;Q04206;Q12962;P63279  
;P42224;O96018;O60296;P20585;P24385;Q14686;Q15366;Q7L592;Q8TF46;Q9NZC7;P50747;O95685;  
Q5VU43;Q9UER7;O15162;Q86U70;Q96S59;O95999;Q12933;Q08209;Q92769;Q12834;Q7RTS9;O00257;Q  
9H2G9;O43679;P40337;Q14019;Q13185;Q9BUJ2;P62324;P62318;P25963;P11388;O15379;O14618;Q9  
6P3;Q9H2K2;O15392;Q96RU7;Q9UKK3;P45973;O95155;O96004;Q8WYA6;Q9UKV3;P50570;Q9BQA5;P22  
415;P10828;P35520;Q9BQE4;P30047;Q99638;P31946;Q9Y383;Q9NT62;Q9UNE7;Q96CA5;O76075;P064  
00;P42575;P31749;Q9UQK1;Q8IZD2;Q9UJW3;Q9C000;P31269}  
876 Pathogen[ P03346] interacts with 103 human  
partners:{Q969S8;Q9UQK1;O15234;Q86U70;Q86UR1;P50570;Q15788;P45973;Q15366;Q9H2G9;P2438  
5;Q8N163;P68036;O15392;O60888;P59103;P06401;O95155;P11388;O95685;O15379;P06400;P25963  
;Q15911;P42575;P62258;P15172;Q9UKK3;Q04206;Q9Y383;Q13023;O60296;Q9NT62;P63279;O00257;  
Q99638;Q9BUJ2;P31269;P16157;P17096;Q04917;Q00987;Q12834;Q86SE8;Q9UKV3;P30047;O95999;O  
14618;O96004;O75925;P62318;Q9H2K2;P17542;Q96IZ0;Q8WYA6;Q96S59;P31749;Q92769;Q7RTS9;Q9  
NCZ7;Q9UNE7;Q13547;P20585;O43679;P26368;Q9UER7;Q7L592;O96018;P42224;P98177;Q12962;Q9C  
0C2;O00267;Q13023;Q96RU7;O76075;P31946;O15151;Q96P63;Q9H7Z6;P10828;Q14019;P50542;P839  
16;P62324;Q9Y6X2;Q08209;Q5VU43;Q96CA5;P40937;P06746;Q13285;P63000;Q13185;Q8IZD2;Q8TF4  
6;Q9NRD5;Q9UJW3;P22415;Q9BQA5;Q9C000;Q14686;O15162}  
877 Pathogen[ Q85601] interacts with 90 human  
partners:{Q96IZ0;Q969S8;Q9NZC7;O15234;P83916;P31946;P16157;P31749;P24385;P17096;Q9Y38  
3;O60888;P15172;O15151;Q86U70;Q9UJW3;P06400;Q9UQK1;Q9Y6X2;Q86SE8;P40337;P62324;Q9UKK3  
;Q9UER7;P63000;Q9H7Z6;Q8WYA6;O15392;O95155;Q9BUJ2;O76075;O96004;P68036;Q04917;P63279;  
Q12834;P30047;Q08209;P22415;Q14686;O60296;Q9H2K2;Q96S59;Q9UKV3;Q12933;P62258;Q92769;P  
42575;Q04206;P45973;Q7RTS9;P62318;O43679;P20585;P50570;P11388;O96018;P42224;Q13185;Q9  
C0C2;O00267;Q96RU7;Q9BQA5;Q9NT62;Q9H2G9;Q5VU43;Q8N163;O15379;Q12962;P06746;Q13547;O15  
162;O95999;P26368;P10828;Q13023;O00257;O14618;Q00987;Q96CA5;Q9UNE7;O75925;P31269;Q8IZ  
D2;Q8TF46;Q99638;Q15366;Q96P63;Q9BQE4;P25963}  
878 Pathogen[ P14079] interacts with 93 human  
partners:{O15379;Q9NRQ2;P11388;P20585;O76075;O15162;P63279;Q9NT62;Q9BQE4;Q8N163;Q7L59  
2;P62324;Q9Y2D5;O95999;P68036;Q9Y6X2;Q15911;P20292;P23434;P10109;P59103;P40937;Q13023  
;P10828;O43679;Q969S8;Q86U70;Q9BUJ2;P16298;Q9C000;P17096;P26368;O15392;O96004;Q9Y383;  
Q9H2K2;P16157;Q04917;Q8TF46;Q9BQA5;Q9UKK3;P50570;Q00987;Q9H2G9;P45973;P40337;Q9C0C2;O  
75952;P50542;Q13185;O00257;O95685;Q9UJW3;Q9NZC7;Q9UKV3;Q12962;Q9UER7;Q92769;O96018;P3  
1946;P03973;P31269;O60888;Q9UQK1;Q96IZ0;Q15788;O95292;Q15366;P62258;Q7RTS9;P42224;Q96  
RU7;O60296;Q12933;P06746;O75925;Q99638;P42575;P83916;Q96S59;O00267;P62318;O15151;Q8WY  
A6;O14618;O15234;Q08209;Q14686;P30047;Q14019;Q5VU43;P10636;P22415}  
879 Pathogen[ P03383] interacts with 69 human  
partners:{O96018;O75925;O15234;P06746;Q15366;P17096;Q9UQK1;P62324;P62318;P40337;Q8N16  
3;P15172;O15162;P31946;Q86U70;Q7L592;Q9UJW3;P31749;Q13023;O00257;Q14686;Q96IZ0;P63000  
;Q9H2G9;P24385;P26368;Q9C0C2;Q9NT62;O00267;P06400;P83916;Q5VU43;Q12834;O96004;O60296;  
Q13185;P45973;Q96S59;Q9BQE4;Q9UKV3;Q9BQA5;Q12933;Q9Y383;Q92769;Q7RTS9;O43679;Q9Y6X2;O  
15379;Q9UER7;P25963;P31269;O95999;Q13547;Q96RU7;Q99638;Q9UKK3;Q96P63;Q9BUJ2;P68036;Q0  
4206;Q12962;P10828;Q8WYA6;P62258;P30047;P63279;Q969S8;P22415;O60888}  
880 Pathogen[ P03410] interacts with 101 human  
partners:{Q7L592;P62258;Q04206;O95292;O15392;Q86SE8;O96018;P30047;O75925;Q9H2G9;Q7RTS  
9;Q9Y2D5;P26368;P20585;O15234;O15151;O96004;Q08209;P63000;Q9BUJ2;O00267;Q96S59;Q04917  
;Q12962;Q9BQA5;P16157;Q14686;P42575;Q14019;Q9C0C2;O76075;Q9NZC7;Q96P63;Q9NRQ2;Q8TF46;  
O43679;Q9Y6X2;O95685;P31749;P17096;P06746;P45973;P50570;Q15366;P10828;Q9C000;P06400;P  
68036;Q9BQE4;O75952;O15162;Q8WYA6;Q9UNE7;P24385;Q969S8;Q9NRD5;Q9UKV3;Q9UER7;O95999;Q9  
2769;Q8N163;Q99638;Q86UR1;P62324;O15379;Q5VU43;P23434;Q86U70;P31269;P22415;Q96IZ0;Q13  
023;Q12933;Q9NT62;Q13185;O60296;Q12834;P10636;P11388;Q96RU7;P50542;Q13547;P63279;P839  
16;Q9Y383;Q9UKK3;P10109;Q00987;Q9UJW3;Q9H2K2;O00257;P25963;O14618;P40937;P20292;O6088

8;P59103;P31946;P40337;Q9UQK1;P62318}

881 Pathogen[ P14075] interacts with 70 human partners:{Q9BQE4;Q15366;O15234;Q7L592;Q12962;Q9H2G9;Q86U70;Q04206;Q969S8;O96018;O60888;P68036;Q9BQA5;P62324;Q5VU43;P10828;Q9NT62;O15162;Q14686;P15172;P17096;Q9UJW3;P06746;O75925;O60296;P45973;P63279;P25963;Q13547;Q9UQK1;Q96IZ0;Q9UKV3;Q8N163;P31269;O00257;O96004;Q99638;P31749;P62318;Q96S59;Q12933;Q92769;Q9BUJ2;Q7RTS9;Q13185;O43679;P30047;P26368;O95999;P06400;P83916;P63000;Q96RU7;O15379;Q9Y383;Q8WYA6;P31946;P24385;O95685;P22415;Q9UER7;Q9C0C2;P59103;P40337;O00267;Q9Y6X2;Q12834;P62258;Q9UUK3;Q13023}

882 Pathogen[ P0C206] interacts with 105 human partners:{Q9BUJ2;O43679;Q9C000;P62324;Q92769;Q14019;O75952;P45973;P26368;P31269;P06401;P31749;Q96IZ0;Q7RTS9;Q15911;Q9Y2D5;O75925;P68036;Q13023;Q9UQK1;O76075;O95999;P25963;Q9Y383;P06746;Q9UER7;Q13547;Q04917;O95155;Q12933;P50542;P10636;Q9BQA5;Q96RU7;Q9Y6X2;Q8WYA6;O96004;P31946;Q99638;P30047;O95292;P16157;O15151;P10828;Q9BQE4;P22415;O96018;P83916;P63000;P62258;Q9UUK3;Q9UNE7;O15379;O60888;Q04206;Q14686;O60296;O14618;P62318;O15234;Q5VU43;Q86SE8;O00267;O15392;P23434;Q15366;Q9C0C2;P17096;Q9H2G9;O15162;P20292;Q9NZC7;Q13185;Q96CA5;P15172;Q96P63;P20585;P42575;Q86U70;Q08209;P11388;Q12962;P59103;Q9NT62;O00257;Q96S59;Q00987;O95685;P42224;Q969S8;Q9NRD5;Q8TF46;Q15788;Q8N163;Q9H2K2;Q12834;P50570;Q7L592;Q9UJW3;Q8IZD2;Q9UKV3;Q9H7Z6;P40337;P24385;P06400}

883 Pathogen[ P03363] interacts with 81 human partners:{P15911;Q86U70;O60888;P62258;P10828;Q15366;Q04206;Q7RTS9;Q9Y383;Q86UR1;P83916;Q9C000;P16157;Q96IZ0;Q9UKV3;P25963;P45973;O15379;Q7L592;O95155;Q969S8;Q12933;P50570;P31946;P62318;Q8WYA6;Q9UER7;O15151;Q5VU43;O43679;O00267;Q9NT62;Q14686;P06400;P40337;Q13185;P63000;Q9H2K2;Q14019;O60296;Q96P63;Q12962;Q9Y6X2;P20585;P26368;P62324;P31749;Q9UUK3;P17096;Q9C0C2;P06746;Q9UNE7;O76075;Q9BQA5;Q8N163;O96004;O75925;P22415;P63279;Q13547;P24385;Q99638;Q9UQK1;Q13023;Q9H2G9;P31269;Q96CA5;O14618;Q9UJW3;Q04917;Q12834;Q86SE8;P30047;Q96S59;Q8TF46;P15172;Q9BUJ2;O96018;O00257;P68036;O15234}

884 [Cluster 81]GO:0030617+F molecular\_function [name] transforming growth factor beta receptor, inhibitory cytoplasmic mediator activity [def] "A TGF-beta cytoplasmic mediator that inhibits the signaling function of common-partner and pathway-specific mediators." [PMID

885 Pathogen[ Q2Q067] interacts with 2 human partners:{O15105;O43541}

886 Pathogen[ P0C214] interacts with 2 human partners:{O15105;O43541}

887 Pathogen[ P03346] interacts with 2 human partners:{O15105;O43541}

888 Pathogen[ Q85601] interacts with 2 human partners:{O43541;O15105}

889 Pathogen[ P14079] interacts with 2 human partners:{O43541;O15105}

890 Pathogen[ P03383] interacts with 2 human partners:{O15105;O43541}

891 Pathogen[ P03410] interacts with 2 human partners:{O43541;O15105}

892 Pathogen[ P14075] interacts with 2 human partners:{O43541;O15105}

893 Pathogen[ P0C206] interacts with 2 human partners:{O43541;O15105}

894 Pathogen[ P03363] interacts with 2 human partners:{O15105;O43541}

895 [Cluster 82]GO:0008201+F molecular\_function [name] heparin binding [def] "Interacting selectively and non-covalently with heparin, any member of a group of glycosaminoglycans found mainly as an intracellular component of mast cells and which consist predominantly of alternating alpha-(1->4)-linked D-galactose and N-acetyl-D-glucosamine-6-sulfate residues." [GOC

896 Pathogen[ Q2Q067] interacts with 4 human partners:{P47914;O14786;P35268;Q15072}

897 Pathogen[ P0C214] interacts with 8 human partners:{P08294;O14786;P47914;P05546;P07093;P01008;Q15072;P35268}

898 Pathogen[ P03346] interacts with 6 human partners:{P35268;Q9Y215;P47914;Q15072;P51858;O14786}

899 Pathogen[ Q85601] interacts with 6 human partners:{O14786;P47914;P35268;P01008;P07093;Q15072}

900 Pathogen[ P14079] interacts with 5 human partners:{Q15072;O95866;P47914;P35268;Q8TAT2}

901 Pathogen[ P03383] interacts with 4 human partners:{Q15072;P47914;P01008;P35268}

902 Pathogen[ P03410] interacts with 8 human partners:{O14786;Q9BQB4;O95866;Q8TAT2;P47914;P35268;Q9Y215;Q15072}

903 Pathogen[ P14075] interacts with 3 human partners:{P35268;P47914;Q15072}

904 Pathogen[ P0C206] interacts with 5 human partners:{Q15072;P01008;O14786;P35268;P47914}

905 Pathogen[ P03363] interacts with 6 human partners:{P51858;O14786;P35268;Q9Y215;Q15072;P47914}

906 [Cluster 83]GO:0070410+F molecular\_function [name] co-SMAD binding [def] "Interacting selectively and non-covalently with a common mediator SMAD signaling protein." [GOC

907 Pathogen[ Q2Q067] interacts with 8 human partners:{Q9UPN9;Q99966;P84022;O43541;Q15796;Q15583;Q93008;Q15797}

908 Pathogen[ P0C214] interacts with 7 human partners:{P84022;Q93008;Q99966;Q15796;O43541;Q15797;Q9UPN9}

909 Pathogen[ P03346] interacts with 9 human partners:{Q9UPN9;Q99966;Q93008;Q15797;Q15583;Q15796;P84022;O43541;O75593}

910 Pathogen[ Q85601] interacts with 8 human partners:{Q9UPN9;O43541;Q15797;Q99966;Q15583;Q93008;P84022;Q15796}

911 Pathogen[ P14079] interacts with 5 human partners:{Q15583;Q99966;Q15797;Q9UPN9;O43541}

912 Pathogen[ P03383] interacts with 5 human



913 partners:{Q9UPN9;Q15797;P84022;O43541;Q15796}  
Pathogen[ P03410] interacts with 7 human

914 partners:{P84022;Q15583;Q15797;O43541;Q15796;Q9UPN9;Q99966}  
Pathogen[ P14075] interacts with 4 human partners:{O43541;Q15796;Q9UPN9;P84022}

915 Pathogen[ P0C206] interacts with 8 human

916 partners:{P84022;O43541;Q9UPN9;Q93008;Q15796;Q15797;Q99966;Q15583}  
Pathogen[ P03363] interacts with 7 human  
partners:{Q9UPN9;Q15797;O43541;Q15796;P84022;Q15583;Q93008}

917 [Cluster 84]GO:0004722+F molecular\_function [name] protein serine/threonine  
phosphatase activity [def] "Catalysis of the reaction

918 Pathogen[ Q2Q067] interacts with 22 human  
partners:{P30153;Q9H0C8;Q8WY54;Q08209;P63151;O00743;P62140;O15355;O14829;Q9Y5P8;P6271  
4;P36873;P62136;P99999;P53041;Q9UQK1;O95476;P35813;O75688;P49593;P60510;O15297}

919 Pathogen[ P0C214] interacts with 30 human  
partners:{O60346;P35813;P62140;P30153;O14829;Q5SWA1;P60510;P62714;O95685;P99999;Q0820  
9;P63151;P62136;O95278;P53041;Q9P0J1;O95476;O15297;Q8N3J5;Q8WY54;Q3ZCQ8;P36873;Q13615  
;P49593;O00743;O75688;Q9Y5P8;Q9H0C8;Q9P2J9;Q9UQK1}

920 Pathogen[ P03346] interacts with 28 human  
partners:{P62136;Q9UQK1;Q9H0C8;O00743;O60346;P35813;O14829;Q8WY54;O95685;Q5SWA1;P6271  
4;P49593;P30153;Q9Y5P8;P99999;Q16667;P36873;O15297;O75688;P53041;O95476;Q3ZCQ8;O15355  
;P62140;Q08209;O95278;P60510;P63151}

921 Pathogen[ Q85601] interacts with 27 human  
partners:{O60346;O75688;P99999;O14829;P62714;P63151;Q9H0C8;Q9UQK1;P49593;P30153;Q5SWA  
1;O95278;Q08209;O15355;P62136;P36873;O15297;Q3ZCQ8;P53041;O95476;Q8WY54;P60510;O00743  
;P62140;P35813;Q9Y5P8;Q8N3J5}

922 Pathogen[ P14079] interacts with 26 human  
partners:{Q3ZCQ8;P49593;P53041;Q5SWA1;O15297;P36873;P16298;P62136;O60346;P63151;P3581  
3;Q8WY54;O95685;O14829;P62140;Q9UQK1;Q9H0C8;P60510;O95476;O75688;P30153;Q9Y5P8;P99999  
;O15355;Q08209;O00743}

923 Pathogen[ P03383] interacts with 17 human  
partners:{P62140;Q9UQK1;Q9H0C8;P62714;P30153;Q5SWA1;O15297;P35813;P36873;P62136;Q9Y5P  
8;P99999;P53041;O15355;Q8WY54;O00743;P60510}

924 Pathogen[ P03410] interacts with 27 human  
partners:{P62714;O15355;P35813;Q8N3J5;Q08209;P60510;Q8WY54;P62136;O95685;P63151;Q9H0C  
8;O75688;O15297;Q3ZCQ8;P62140;Q5SWA1;P36873;P53041;P99999;O95476;P30153;O60346;P49593  
;O00743;O14829;Q9Y5P8;Q9UQK1}

925 Pathogen[ P14075] interacts with 18 human  
partners:{Q9Y5P8;O15297;P35813;P60510;Q5SWA1;P62140;Q9UQK1;P36873;P62136;O00743;Q9H0C  
8;P99999;P53041;P62714;P30153;Q8WY54;O95685;O15355}

926 Pathogen[ P0C206] interacts with 29 human  
partners:{P99999;O00743;Q8WY54;P30153;Q13615;Q9UQK1;P53041;P63151;O95476;P49593;O1535  
5;Q3ZCQ8;O75688;O95278;P62714;Q5SWA1;P62140;O14829;O60346;Q08209;P60510;O95685;O15297  
;P36873;Q8N3J5;Q9Y5P8;P62136;P35813;Q9H0C8}

927 Pathogen[ P03363] interacts with 21 human  
partners:{Q9Y5P8;P62136;O15355;P62714;O14829;P36873;P99999;P62140;P53041;Q16667;O0074  
3;Q3ZCQ8;O95476;P63151;Q9H0C8;P60510;Q9UQK1;O15297;P30153;O75688;Q8WY54}

928 [Cluster 85]GO:0030971+F molecular\_function [name] receptor tyrosine kinase binding  
[def] "Interacting selectively and non-covalently with a receptor that possesses protein  
tyrosine kinase activity." [GOC

929 Pathogen[ Q2Q067] interacts with 8 human  
partners:{P61981;P12004;Q8N1I0;Q53G26;P27986;Q96EY1;Q96JJ3;Q13501}

930 Pathogen[ P0C214] interacts with 7 human  
partners:{Q13501;Q53G26;P61981;Q8N1I0;Q96JJ3;P27986;Q96EY1}

931 Pathogen[ P03346] interacts with 10 human  
partners:{P12004;O75159;Q96JJ3;Q53G26;P61981;Q5VV41;Q8N1I0;Q96EY1;P27986;Q13501}

932 Pathogen[ Q85601] interacts with 8 human  
partners:{P61981;Q53G26;Q96JJ3;P27986;P12004;Q8N1I0;Q96EY1;Q13501}

933 Pathogen[ P14079] interacts with 8 human  
partners:{Q96JJ3;P61981;P08758;Q13501;P12004;Q8N1I0;Q96EY1;Q5VV41}

934 Pathogen[ P03383] interacts with 5 human  
partners:{P27986;Q13501;P61981;Q96EY1;Q53G26}

935 Pathogen[ P03410] interacts with 9 human  
partners:{P27986;Q53G26;Q13501;P61981;Q5VV41;Q8N1I0;P12004;Q96JJ3;Q96EY1}

936 Pathogen[ P14075] interacts with 5 human  
partners:{Q53G26;P61981;P27986;Q96EY1;Q13501}

937 Pathogen[ P0C206] interacts with 8 human  
partners:{Q13501;Q53G26;P27986;P61981;Q96JJ3;Q8N1I0;Q96EY1;P12004}

938 Pathogen[ P03363] interacts with 8 human  
partners:{O75159;Q5VV41;Q53G26;Q8N1I0;P61981;Q96JJ3;Q96EY1;P27986}

939 [Cluster 86]GO:0008140+F molecular\_function [name] cAMP response element binding  
protein binding [def] "Interacting selectively and non-covalently with the cAMP response  
element binding protein." [GOC

940 Pathogen[ Q2Q067] interacts with 5 human  
partners:{Q6UUUV9;Q6UUUV7;P15336;Q03060;Q53ET0}

941 Pathogen[ P0C214] interacts with 5 human  
partners:{Q6UUUV7;P15336;Q53ET0;Q6UUUV9;Q03060}

- 942 Pathogen[ P03346] interacts with 5 human partners:{Q53ET0;P15336;Q6UUUV9;Q03060;Q6UUUV7}
- 943 Pathogen[ Q85601] interacts with 5 human partners:{Q53ET0;Q6UUUV9;Q6UUUV7;P15336;Q03060}
- 944 Pathogen[ P14079] interacts with 2 human partners:{Q03060;P15336}
- 945 Pathogen[ P03383] interacts with 5 human partners:{Q6UUUV9;Q6UUUV7;P15336;Q53ET0;Q03060}
- 946 Pathogen[ P03410] interacts with 5 human partners:{Q6UUUV7;Q03060;Q6UUUV9;Q53ET0;P15336}
- 947 Pathogen[ P14075] interacts with 5 human partners:{Q53ET0;P15336;Q6UUUV9;Q6UUUV7;Q03060}
- 948 Pathogen[ P0C206] interacts with 5 human partners:{Q03060;P15336;Q6UUUV9;Q53ET0;Q6UUUV7}
- 949 Pathogen[ P03363] interacts with 5 human partners:{Q53ET0;P15336;Q6UUUV9;Q6UUUV7;Q03060}
- 950 [Cluster 87]GO:0008022+F molecular\_function [name] protein C-terminus binding [def] "Interacting selectively and non-covalently with a protein C-terminus, the end of any peptide chain at which the l-carboxy function of a constituent amino acid is not attached in peptide linkage to another amino-acid residue." [ISBN
- 951 Pathogen[ Q2Q067] interacts with 66 human partners:{P49454;O75351;Q93009;P15884;A9UHW6;O95782;P07196;Q92889;P49959;Q13352;P38432;Q9NSC5;Q15554;Q9P0M2;Q93074;O95999;P67775;P63279;Q92547;P08047;O14907;Q9BSM1;Q06609;P11388;P31948;Q12959;Q99966;P54253;P62714;P78352;Q66GS9;Q92796;Q12834;Q15543;Q9Y6X2;Q13426;P50613;Q96CV9;Q9UN37;O60907;O00505;Q15599;Q03468;P12956;P19338;Q13363;O75360;P35813;Q6QNY1;P31946;O95619;O75382;P46013;Q14676;Q99700;Q9P1Z2;P27986;P13010;P08670;P11940;Q15691;Q14207;Q9UBY9;Q9NPA3;Q9BV73;P33076}
- 952 Pathogen[ P0C214] interacts with 68 human partners:{Q9Y6X2;P35813;P38432;Q06609;Q14207;Q13363;P49959;O75351;Q92889;P13010;P54253;O00159;Q9BSM1;Q15554;P50613;Q92796;P33076;P15884;O60907;Q15599;Q9NPA3;Q93074;Q9P0M2;Q9UBY9;O14907;P63279;P11940;Q9NSC5;Q14676;Q15691;P31948;Q99700;O95619;P62714;P78352;Q99966;Q13426;Q66GS9;O95999;A9UHW6;Q12834;P08670;Q13352;P67775;P11388;Q93009;Q96CV9;Q12959;O00505;O75360;Q9HD26;Q96JB3;Q9BV73;P46013;O95782;Q9UN37;Q92547;Q9P1Z2;Q15543;Q6QNY1;P31946;P49454;P19338;P27986;Q03468;P07196;P08047;P12956}
- 953 Pathogen[ P03346] interacts with 84 human partners:{Q9NSC5;O75382;Q86UT5;Q93009;Q9P0M2;P35813;Q9NQC8;P07196;P12956;Q14207;Q99966;O60907;Q06609;Q15036;P11388;Q15554;P78352;Q12772;P07992;Q15691;Q13426;O75970;P13010;Q93074;P33076;O95782;P31948;P11940;P63279;O00505;P62714;P67775;P19338;Q9BSM1;Q9UBX0;O00409;P55196;Q5EBL8;Q12834;P08047;O95999;Q92796;Q99700;Q14676;Q96CV9;Q66GS9;A9UHW6;Q8N960;Q15599;Q9UBY9;Q03468;Q6QNY1;Q9HD26;Q9P1Z2;O14907;Q8IUQ4;P49959;P08670;O95619;Q92889;Q92547;P31946;O75351;P50542;Q13363;P46013;O75360;Q9UI14;P38432;P54253;O43933;Q9Y6X2;Q9NRD5;Q13352;P27986;P49454;Q9NPA3;P15884;Q9UN37;Q96JB3;Q12959;Q9NWB1;Q15543;Q9BV73}
- 954 Pathogen[ Q85601] interacts with 75 human partners:{O95619;P49454;Q96CV9;O75360;P33076;P31946;Q96JB3;Q93009;Q92547;P62714;P07196;Q15554;P08670;O60907;Q15036;Q9Y6X2;Q99966;Q13426;Q12772;P31948;P49959;Q13363;P19338;P63279;Q96FI4;Q12834;P08047;P27986;Q92889;P11940;P38432;Q03468;Q13352;Q66GS9;O00159;O75351;Q9UBX0;Q9UBY9;Q9BSM1;Q9BV73;Q9HD26;Q15691;O14907;P11388;P78352;Q9NPA3;Q92796;P50613;P67775;Q14207;O75382;Q9P0M2;Q12959;O43933;Q9NSC5;A9UHW6;P46013;P54253;Q15543;O95999;Q9P1Z2;O00505;P19447;P35813;Q06609;Q9UN37;Q6QNY1;Q93074;Q99700;Q14676;P15884;Q15599;P13010;P12956;O95782}
- 955 Pathogen[ P14079] interacts with 77 human partners:{Q15691;Q9Y5Y5;P11388;P33076;A9UHW6;Q96JB3;P31948;Q15036;P63279;Q9NPA3;O95999;Q9Y6X2;Q99700;P13010;Q86UT5;Q9P0M2;Q14207;Q66GS9;O60907;Q99966;Q9UI14;Q9BV73;O14907;P54253;P07196;Q8N960;P35813;Q12772;P19338;Q9HD26;P50613;P12956;P50542;O95782;Q15543;P11940;O75915;P31946;Q15599;Q9Y520;O75360;Q7Z412;Q96FI4;Q92889;Q9NSC5;O00505;Q9UN37;Q15554;Q9Y366;Q14676;Q92547;P38432;P15884;Q03468;P49454;Q9NQC8;P08670;O75351;Q9NWB1;Q93074;Q92796;O95619;Q06609;Q9P1Z2;Q6QNY1;Q13352;Q9UBY9;O75382;Q96CV9;Q13426;P07992;Q9BSM1;P19447;P49917;O75970;Q9NSN8;P46013}
- 956 Pathogen[ P03383] interacts with 56 human partners:{P27986;P49454;Q06609;P33076;P08047;P13010;Q15691;P19338;P08670;P31946;Q9HD26;Q15554;O60907;O75360;A9UHW6;Q99700;P31948;P46013;Q9BV73;P62714;P67775;P11940;O00505;Q13352;P35813;Q93074;P38432;Q12834;Q9BSM1;Q66GS9;P50613;Q03468;Q13426;Q9Y6X2;P07196;O95782;O95999;Q14207;Q9NSC5;P54253;O14907;Q9UBY9;Q92796;Q96CV9;Q92547;Q14676;O95619;Q9UN37;P78352;Q9NPA3;P63279;Q9P1Z2;Q13363;P12956;Q6QNY1;Q15543}
- 957 Pathogen[ P03410] interacts with 84 human partners:{Q99700;Q9BSM1;P62714;Q96JB3;Q86UT5;P49959;O95619;O95782;Q8N960;Q96FI4;P27986;P35813;O00505;Q6QNY1;Q9NWB1;Q15543;Q66GS9;Q15554;P11940;P07992;O75351;O75382;P46013;Q12959;P15884;Q14207;Q9Y5Y5;O00159;Q9Y6X2;Q92889;Q9NSC5;Q9Y366;Q03468;P50613;P07196;P38432;P49454;Q9HD26;Q9P1Z2;Q15599;O75970;P12956;Q9P0M2;Q9NRD5;A9UHW6;O95999;Q15691;O75915;Q12772;Q9UN37;Q9Y520;Q96CV9;Q92796;P19447;O14907;Q15036;P19338;Q13426;P31948;P08670;Q12834;Q92547;P11388;P50542;P13010;P63279;P08047;Q14676;Q9NQC8;Q93074;O75360;P54253;P78352;P67775;Q9UBY9;Q9UI14;O60907;Q9BV73;P33076;Q9NPA3;Q13352;P31946;Q06609;Q99966}
- 958 Pathogen[ P14075] interacts with 57 human partners:{P54253;P35813;P19338;Q9UBY9;P12956;Q14207;Q15554;P38432;P50613;O95619;P33076;Q9HD26;P63279;A9UHW6;O00505;Q03468;Q93074;P11940;Q66GS9;Q14676;Q9NPA3;Q9NSC5;Q6QNY1

;Q15691;Q9BV73;O95782;P27986;O14907;O60907;Q9P1Z2;O75360;Q92796;O95999;Q13426;P62714;P67775;P08670;P15884;P78352;Q96CV9;P07196;P31946;Q99700;Q13363;P13010;Q13352;P31948;P49454;Q92547;Q9BSM1;P46013;Q9Y6X2;Q12834;Q06609;Q9UN37;Q15543;P08047}

959 Pathogen[ P0C206] interacts with 85 human partners: {A9UHW6;Q9NQC8;Q9NPA3;O43933;Q9UN37;P13010;P78352;P07196;Q9Y520;P49959;Q15543;O60907;Q96CV9;Q96CV9;Q15554;Q15691;O95999;Q8IUQ4;P46013;O00505;Q03468;P19338;Q6QNY1;Q93009;Q9P1Z2;P49454;P67775;P50542;P33076;Q15036;P27986;Q9UII4;Q9Y6X2;P07992;O75360;P19447;P31946;Q86UT5;O14907;Q96JB3;Q15599;P49917;P50613;Q9NSC5;O95619;Q99700;P08047;Q9POM2;Q13426;P55196;O00159;Q14676;Q92889;P15884;Q66GS9;Q13352;P62714;Q9BV73;Q9BSM1;Q96FI4;O95782;Q99966;Q06609;P11388;Q92796;P08670;Q13363;O75351;P31948;Q92547;Q9UBX0;P12956;Q9NRD5;Q93074;P11940;Q12959;Q9HD26;P38432;Q12772;Q8N960;Q12834;Q14207;P35813;Q9UBY9;P54253}

960 Pathogen[ P03363] interacts with 71 human partners: {Q9UBV9;Q92547;Q12959;O95619;P12956;O14907;P49454;P19338;O43933;O75360;P62714;Q96CV9;Q15554;A9UHW6;P13010;Q66GS9;O00505;Q15691;P78352;P31946;O60907;Q96FI4;Q92889;P11940;O75970;O00409;Q9POM2;O75351;Q9Y6X2;P07196;Q9NSC5;Q9UN37;Q13426;Q9BSM1;Q9P1Z2;P08670;Q9NWB1;P31948;Q86UT5;Q6QNY1;P54253;P63279;Q93074;O75382;Q9UBE0;P33076;O95782;Q03468;Q15599;P15884;Q06609;Q12834;Q14207;Q13363;Q99700;P08047;Q92796;P46013;Q14676;Q9NPA3;Q15543;Q13352;P27986;P67775;Q9HD26;Q9NSN8;Q9BV73;P38432;Q9NQC8;Q9UBX0;Q8N960}

961 [Cluster 88]GO:0019888+F molecular\_function [name] protein phosphatase regulator activity [def] "Modulates the activity of a protein phosphatase, an enzyme which catalyzes of the removal of a phosphate group from a protein substrate molecule." [GOC

962 Pathogen[ Q2Q067] interacts with 1 human partners: {Q6NUP7}

963 Pathogen[ P0C214] interacts with 1 human partners: {Q6NUP7}

964 Pathogen[ P03346] interacts with 2 human partners: {Q6NUP7;Q9UQ13}

965 Pathogen[ Q85601] interacts with 1 human partners: {Q6NUP7}

966 Pathogen[ P14079] interacts with 1 human partners: {Q6NUP7}

967 Pathogen[ P03383] interacts with 1 human partners: {Q6NUP7}

968 Pathogen[ P03410] interacts with 1 human partners: {Q6NUP7}

969 Pathogen[ P14075] interacts with 1 human partners: {Q6NUP7}

970 Pathogen[ P0C206] interacts with 1 human partners: {Q6NUP7}

971 Pathogen[ P03363] interacts with 2 human partners: {Q9UQ13;Q6NUP7}

972 [Cluster 89]GO:0042296+F molecular\_function [name] ISG15 ligase activity [def] "Catalysis of the covalent attachment of the ubiquitin-like protein ISG15 to other proteins." [GOC

973 Pathogen[ Q2Q067] interacts with 3 human partners: {Q9UII4;P51965;O14933}

974 Pathogen[ P0C214] interacts with 4 human partners: {O14933;P51965;Q9UII4;Q96LR5}

975 Pathogen[ P03346] interacts with 3 human partners: {Q9UII4;P51965;O14933}

976 Pathogen[ Q85601] interacts with 3 human partners: {O14933;Q96LR5;P51965}

977 Pathogen[ P14079] interacts with 2 human partners: {P51965;O14933}

978 Pathogen[ P03383] interacts with 2 human partners: {O14933;P51965}

979 Pathogen[ P03410] interacts with 2 human partners: {P51965;O14933}

980 Pathogen[ P14075] interacts with 2 human partners: {P51965;O14933}

981 Pathogen[ P0C206] interacts with 3 human partners: {O14933;Q96LR5;P51965}

982 Pathogen[ P03363] interacts with 3 human partners: {P51965;O14933;Q9UII4}

983 [Cluster 90]GO:0035257+F molecular\_function [name] nuclear hormone receptor binding [def] "Interacting selectively and non-covalently with a nuclear hormone receptor, a ligand-dependent receptor found in the nucleus of the cell." [GOC

984 Pathogen[ Q2Q067] interacts with 6 human partners: {Q13573;Q15596;O95359;P48552;Q8NI08;Q6STE5}

985 Pathogen[ P0C214] interacts with 6 human partners: {Q13573;P48552;Q6STE5;Q8NI08;O95359;Q15596}

986 Pathogen[ P03346] interacts with 7 human partners: {Q15788;O95359;Q15596;Q6STE5;P48552;Q8NI08;Q13573}

987 Pathogen[ Q85601] interacts with 6 human partners: {Q6STE5;Q13573;Q15596;P48552;Q8NI08;O95359}

988 Pathogen[ P14079] interacts with 7 human partners: {P48552;Q6STE5;Q15596;O95359;Q8NI08;Q13573;Q15788}

989 Pathogen[ P03383] interacts with 5 human partners: {Q13573;Q15596;Q6STE5;P48552;Q8NI08}

990 Pathogen[ P03410] interacts with 6 human partners: {O95359;Q8NI08;Q15596;Q6STE5;P48552;Q13573}

991 Pathogen[ P14075] interacts with 5 human partners: {Q13573;P48552;Q8NI08;Q6STE5;Q15596}

992 Pathogen[ P0C206] interacts with 7 human partners: {O95359;Q6STE5;Q8NI08;Q13573;Q15596;P48552;Q15788}

993 Pathogen[ P03363] interacts with 6 human partners: {Q6STE5;Q15596;P48552;Q8NI08;Q13573;O95359}

994 [Cluster 91]GO:0017108+F molecular\_function [name] 5'-flap endonuclease activity [def] "Catalysis of the cleavage of a 5' flap structure in DNA, but not other DNA structures\_ processes the 5' ends of Okazaki fragments in lagging strand DNA synthesis." [PMID

995 Pathogen[ Q2Q067] interacts with 4 human partners: {Q9Y2M0;Q9BQ83;P39748;Q8IY92}

996 Pathogen[ P0C214] interacts with 4 human partners: {Q9BQ83;Q9Y2M0;P39748;Q8IY92}

997 Pathogen[ P03346] interacts with 4 human partners: {Q9BQ83;P39748;Q8IY92;Q9Y2M0}

998 Pathogen[ Q85601] interacts with 4 human partners: {Q9Y2M0;Q8IY92;Q9BQ83;P39748}

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999 Pathogen[ P14079] interacts with 4 human partners:{Q9Y2M0;Q9BQ83;Q8IY92;P39748}
1000 Pathogen[ P03383] interacts with 3 human partners:{Q9Y2M0;Q8IY92;Q9BQ83}
1001 Pathogen[ P03410] interacts with 4 human partners:{P39748;Q9BQ83;Q8IY92;Q9Y2M0}
1002 Pathogen[ P14075] interacts with 3 human partners:{Q9BQ83;Q9Y2M0;Q8IY92}
1003 Pathogen[ P0C206] interacts with 4 human partners:{Q9Y2M0;P39748;Q9BQ83;Q8IY92}
1004 Pathogen[ P03363] interacts with 3 human partners:{Q9Y2M0;Q9BQ83;Q8IY92}
1005 [Cluster 92]GO:0019003+F molecular_function [name] GDP binding [def] "Interacting
selectively and non-covalently with GDP, guanosine 5'-diphosphate." [GOC
1006 Pathogen[ Q2Q067] interacts with 1 human partners:{Q14232}
1007 Pathogen[ P0C214] interacts with 3 human partners:{P35558;Q14232;P36404}
1008 Pathogen[ P03346] interacts with 3 human partners:{Q14232;P36404;P36405}
1009 Pathogen[ Q85601] interacts with 2 human partners:{P36405;Q14232}
1010 Pathogen[ P14079] interacts with 2 human partners:{P36405;Q14232}
1011 Pathogen[ P03383] interacts with 1 human partners:{Q14232}
1012 Pathogen[ P03410] interacts with 2 human partners:{P36405;Q14232}
1013 Pathogen[ P14075] interacts with 1 human partners:{Q14232}
1014 Pathogen[ P0C206] interacts with 2 human partners:{Q14232;P36405}
1015 Pathogen[ P03363] interacts with 1 human partners:{Q8IYML}
1016 [Cluster 93]GO:0032129+F molecular_function [name] histone deacetylase activity
(H3-K9 specific) [def] "Catalysis of the reaction
1017 Pathogen[ Q2Q067] interacts with 10 human
partners:{P56524;Q9BY41;Q9UKV0;Q13547;O15379;Q9UQL6;Q969S8;Q96DB2;Q92769;Q8WUI4}
1018 Pathogen[ P0C214] interacts with 10 human
partners:{Q13547;Q969S8;Q96DB2;P56524;Q92769;Q9UKV0;O15379;Q8WUI4;Q9UQL6;Q9BY41}
1019 Pathogen[ P03346] interacts with 10 human
partners:{Q969S8;Q96DB2;O15379;P56524;Q92769;Q13547;Q9BY41;Q8WUI4;Q9UKV0;Q9UQL6}
1020 Pathogen[ Q85601] interacts with 10 human
partners:{Q969S8;Q9UKV0;Q96DB2;Q9BY41;Q9UQL6;Q92769;P56524;O15379;Q13547;Q8WUI4}
1021 Pathogen[ P14079] interacts with 9 human
partners:{Q9UQL6;O15379;Q96DB2;Q969S8;Q8WUI4;Q9UKV0;Q92769;Q9BY41;P56524}
1022 Pathogen[ P03383] interacts with 9 human
partners:{Q9UQL6;Q92769;O15379;Q13547;Q9BY41;Q9UKV0;P56524;Q8WUI4;Q969S8}
1023 Pathogen[ P03410] interacts with 10 human
partners:{Q9UKV0;Q9BY41;Q8WUI4;Q9UQL6;Q969S8;Q92769;O15379;P56524;Q13547;Q96DB2}
1024 Pathogen[ P14075] interacts with 9 human
partners:{Q9BY41;Q969S8;P56524;Q9UKV0;Q13547;Q92769;O15379;Q9UQL6;Q8WUI4}
1025 Pathogen[ P0C206] interacts with 10 human
partners:{Q92769;Q96DB2;Q9UKV0;Q13547;O15379;Q8WUI4;Q9BY41;P56524;Q969S8;Q9UQL6}
1026 Pathogen[ P03363] interacts with 7 human
partners:{Q9BY41;O15379;Q969S8;Q9UQL6;Q9UKV0;Q13547;Q8WUI4}
1027 [Cluster 94]GO:0002161+F molecular_function [name] aminoacyl-tRNA editing activity
[def] "The hydrolysis of an incorrectly aminoacylated tRNA." [GOC
1028 Pathogen[ Q2Q067] interacts with 2 human partners:{P41252;Q9P2J5}
1029 Pathogen[ P0C214] interacts with 7 human
partners:{Q9NSE4;P41252;Q15031;P49588;P26640;Q5ST30;Q9P2J5}
1030 Pathogen[ P03346] interacts with 2 human partners:{P41252;Q9P2J5}
1031 Pathogen[ Q85601] interacts with 2 human partners:{Q9P2J5;P41252}
1032 Pathogen[ P14079] interacts with 7 human
partners:{Q9P2J5;Q15031;Q5ST30;P41252;P26640;Q9NSE4;P49588}
1033 Pathogen[ P03383] interacts with 3 human partners:{Q9P2J5;Q15031;P41252}
1034 Pathogen[ P03410] interacts with 6 human
partners:{Q9NSE4;Q5ST30;P49588;Q9P2J5;P41252;P26640}
1035 Pathogen[ P14075] interacts with 4 human partners:{P41252;Q9P2J5;Q9NSE4;Q15031}
1036 Pathogen[ P0C206] interacts with 6 human
partners:{Q9NSE4;P41252;Q5ST30;P26640;Q15031;Q9P2J5}
1037 Pathogen[ P03363] interacts with 3 human partners:{P41252;Q9P2J5;Q15031}
1038 [Cluster 95]GO:0016462+F molecular_function [name] pyrophosphatase activity [def]
"Catalysis of the hydrolysis of a pyrophosphate bond between two phosphate groups,
leaving one phosphate on each of the two fragments." [EC
1039 Pathogen[ Q2Q067] interacts with 3 human partners:{Q15181;Q8WUY3;Q86TP1}
1040 Pathogen[ P0C214] interacts with 3 human partners:{Q8WUY3;Q86TP1;Q15181}
1041 Pathogen[ P03346] interacts with 3 human partners:{Q8WUY3;Q15181;Q86TP1}
1042 Pathogen[ Q85601] interacts with 3 human partners:{Q86TP1;Q8WUY3;Q15181}
1043 Pathogen[ P14079] interacts with 5 human
partners:{Q86TP1;Q9H773;Q8WUY3;Q15181;P49915}
1044 Pathogen[ P03383] interacts with 3 human partners:{Q8WUY3;Q15181;Q86TP1}
1045 Pathogen[ P03410] interacts with 5 human
partners:{P49915;Q9H773;Q86TP1;Q15181;Q8WUY3}
1046 Pathogen[ P14075] interacts with 3 human partners:{Q8WUY3;Q15181;Q86TP1}
1047 Pathogen[ P0C206] interacts with 3 human partners:{Q86TP1;Q8WUY3;Q15181}
1048 Pathogen[ P03363] interacts with 3 human partners:{Q8WUY3;Q15181;Q86TP1}
1049 [Cluster 96]GO:0050811+F molecular_function [name] GABA receptor binding [def]
"Interacting selectively and non-covalently with the gamma-aminobutyric acid (GABA,
4-aminobutyrate) receptor." [GOC
1050 Pathogen[ Q2Q067] interacts with 4 human partners:{O60296;Q96N16;P60520;Q9UPV9}
1051 Pathogen[ P0C214] interacts with 4 human partners:{P60520;Q9UPV9;O60296;Q96N16}

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1052 Pathogen[ P03346] interacts with 7 human  
partners:{O95166;Q96N16;P60520;Q9Y6D5;O60296;Q9H0R8;Q9UPV9}

1053 Pathogen[ Q85601] interacts with 6 human  
partners:{O95166;Q9H0R8;Q9UPV9;O60296;P60520;Q96N16}

1054 Pathogen[ P14079] interacts with 7 human  
partners:{O95166;P24588;Q9Y6D5;Q96N16;P60520;Q9H0R8;O60296}

1055 Pathogen[ P03383] interacts with 3 human partners:{O60296;Q96N16;Q9UPV9}

1056 Pathogen[ P03410] interacts with 8 human  
partners:{P60520;Q96N16;O95166;Q9H0R8;Q9UPV9;Q9Y6D5;O60296;P24588}

1057 Pathogen[ P14075] interacts with 3 human partners:{Q96N16;O60296;Q9UPV9}

1058 Pathogen[ P0C206] interacts with 7 human  
partners:{Q9UPV9;Q96N16;Q9Y6D5;O60296;P60520;Q9H0R8;O95166}

1059 Pathogen[ P03363] interacts with 6 human  
partners:{Q9UPV9;P60520;O60296;Q9H0R8;Q96N16;O95166}

1060 [Cluster 97]GO:0004817+F molecular\_function [name] cysteine-tRNA ligase activity  
[def] "Catalysis of the reaction

1061 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9HA77;P49589}

1062 Pathogen[ P0C214] interacts with 2 human partners:{P49589;Q9HA77}

1063 Pathogen[ P03346] interacts with 1 human partners:{P49589}

1064 Pathogen[ Q85601] interacts with 2 human partners:{P49589;Q9HA77}

1065 Pathogen[ P14079] interacts with 2 human partners:{Q9HA77;P49589}

1066 Pathogen[ P03383] interacts with 2 human partners:{P49589;Q9HA77}

1067 Pathogen[ P03410] interacts with 2 human partners:{Q9HA77;P49589}

1068 Pathogen[ P14075] interacts with 2 human partners:{Q9HA77;P49589}

1069 Pathogen[ P0C206] interacts with 2 human partners:{P49589;Q9HA77}

1070 Pathogen[ P03363] interacts with 1 human partners:{P49589}

1071 [Cluster 98]GO:0042578+F molecular\_function [name] phosphoric ester hydrolase  
activity [def] "Catalysis of the reaction

1072 Pathogen[ Q2Q067] interacts with 2 human partners:{Q92562;P09467}

1073 Pathogen[ P0C214] interacts with 4 human partners:{O15056;Q92562;P09467;O00757}

1074 Pathogen[ P03346] interacts with 3 human partners:{P09467;Q92562;O15056}

1075 Pathogen[ Q85601] interacts with 3 human partners:{O00757;Q92562;P09467}

1076 Pathogen[ P14079] interacts with 2 human partners:{Q92562;P09467}

1077 Pathogen[ P03383] interacts with 1 human partners:{P09467}

1078 Pathogen[ P03410] interacts with 3 human partners:{Q92562;P09467;O00757}

1079 Pathogen[ P14075] interacts with 1 human partners:{P09467}

1080 Pathogen[ P0C206] interacts with 3 human partners:{Q92562;P09467;O00757}

1081 Pathogen[ P03363] interacts with 1 human partners:{O15056}

1082 [Cluster 99]GO:0000149+F molecular\_function [name] SNARE binding [def]  
"Interacting selectively and non-covalently with a SNARE (soluble  
N-ethylmaleimide-sensitive factor attached protein receptor) protein." [PMID

1083 Pathogen[ Q2Q067] interacts with 3 human partners:{O95295;P60520;P54920}

1084 Pathogen[ P0C214] interacts with 3 human partners:{P60520;O95295;P54920}

1085 Pathogen[ P03346] interacts with 3 human partners:{O95295;P60520;P54920}

1086 Pathogen[ Q85601] interacts with 3 human partners:{P54920;O95295;P60520}

1087 Pathogen[ P14079] interacts with 7 human  
partners:{O14810;Q6PUV4;P60520;O95295;Q8WVH0;Q7Z7G2;P54920}

1088 Pathogen[ P03383] interacts with 2 human partners:{P54920;O95295}

1089 Pathogen[ P03410] interacts with 7 human  
partners:{P60520;O14810;Q8WVH0;O95295;Q7Z7G2;Q6PUV4;P54920}

1090 Pathogen[ P14075] interacts with 2 human partners:{O95295;P54920}

1091 Pathogen[ P0C206] interacts with 5 human  
partners:{P54920;Q7Z7G2;Q6PUV4;P60520;O95295}

1092 Pathogen[ P03363] interacts with 3 human partners:{P54920;P60520;O95295}

1093 [Cluster 100]GO:0033882+F molecular\_function [name] choloyl-CoA hydrolase activity  
[def] "Catalysis of the reaction

1094 Pathogen[ Q2Q067] interacts with 1 human partners:{O14734}

1095 Pathogen[ P0C214] interacts with 1 human partners:{O14734}

1096 Pathogen[ P03346] interacts with 1 human partners:{O14734}

1097 Pathogen[ Q85601] interacts with 1 human partners:{O14734}

1098 Pathogen[ P14079] interacts with 1 human partners:{O14734}

1099 Pathogen[ P03383] interacts with 1 human partners:{O14734}

1100 Pathogen[ P03410] interacts with 1 human partners:{O14734}

1101 Pathogen[ P14075] interacts with 1 human partners:{O14734}

1102 Pathogen[ P0C206] interacts with 1 human partners:{O14734}

1103 Pathogen[ P03363] interacts with 1 human partners:{O14734}

1104 [Cluster 101]GO:0004520+F molecular\_function [name] endodeoxyribonuclease activity  
[def] "Catalysis of the hydrolysis of ester linkages within deoxyribonucleic acid by  
creating internal breaks." [GOC

1105 Pathogen[ Q2Q067] interacts with 6 human  
partners:{Q92889;P49959;O95243;P27695;Q8IW19;P28715}

1106 Pathogen[ P0C214] interacts with 6 human  
partners:{Q8IW19;O95243;P27695;P49959;Q92889;P28715}

1107 Pathogen[ P03346] interacts with 7 human  
partners:{P28715;Q8IW19;Q13609;P49959;Q92889;O95243;P27695}

1108 Pathogen[ Q85601] interacts with 6 human

1109 partners:{O95243;P49959;Q92889;P28715;Q8IW19;P27695}  
 Pathogen[ P14079] interacts with 8 human

1110 partners:{Q13609;P28715;O00115;O95243;Q92889;P27695;Q8WZ79;Q8IW19}  
 Pathogen[ P03383] interacts with 3 human partners:{Q8IW19;O95243;P27695}

1111 partners:{P49959;Q13609;Q92889;P28715;O95243;Q8IW19;P27695;O00115}  
 Pathogen[ P14075] interacts with 3 human partners:{P27695;Q8IW19;O95243}

1112 Pathogen[ P0C206] interacts with 7 human  
 partners:{P27695;P28715;P49959;Q92889;Q13609;Q8IW19;O95243}

1114 Pathogen[ P03363] interacts with 4 human partners:{Q8IW19;Q92889;Q13609;O95243}

1115 [Cluster 102]GO:0000146+F molecular\_function [name] microfilament motor activity [def]  
 "Catalysis of movement along a microfilament, coupled to the hydrolysis of a nucleoside triphosphate (usually ATP)." [GOC

1116 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9UKX2;P12883;P35579}

1117 Pathogen[ P0C214] interacts with 7 human  
 partners:{Q9UKX2;P11055;P35580;P12883;Q7Z406;P13533;Q9Y623}

1118 Pathogen[ P03346] interacts with 3 human partners:{P35579;Q9ULV0;Q9UKX2}

1119 Pathogen[ Q85601] interacts with 8 human  
 partners:{P13533;P35579;Q9UKX2;Q7Z406;P11055;P12883;P35580;Q9Y623}

1120 Pathogen[ P14079] interacts with 3 human partners:{P35579;Q9UKX2;P12883}

1121 Pathogen[ P03383] interacts with 4 human partners:{Q9UKX2;P12883;P35580;P35579}

1122 Pathogen[ P03410] interacts with 6 human  
 partners:{Q9UKX2;Q9ULV0;P35579;P12883;P35580;P13533}

1123 Pathogen[ P14075] interacts with 2 human partners:{Q9UKX2;P35579}

1124 Pathogen[ P0C206] interacts with 7 human  
 partners:{P13533;Q9Y623;P11055;P12883;P35579;Q9UKX2;P35580}

1125 Pathogen[ P03363] interacts with 2 human partners:{P35579;Q9UKX2}

1126 [Cluster 103]GO:0071208+F molecular\_function [name] histone pre-mRNA DCP binding [def]  
 "Interacting selectively and non-covalently with the downstream cleavage product (DCP) generated by histone pre-mRNA 3'-end processing." [PMID

1127 Pathogen[ Q2Q067] interacts with 4 human partners:{P62318;P14678;Q14493;Q969L4}

1128 Pathogen[ P0C214] interacts with 4 human partners:{P14678;Q969L4;Q14493;P62318}

1129 Pathogen[ P03346] interacts with 4 human partners:{Q14493;P62318;P14678;Q969L4}

1130 Pathogen[ Q85601] interacts with 4 human partners:{Q969L4;P14678;P62318;Q14493}

1131 Pathogen[ P14079] interacts with 4 human partners:{P14678;Q969L4;Q14493;P62318}

1132 Pathogen[ P03383] interacts with 4 human partners:{Q969L4;P62318;Q14493;P14678}

1133 Pathogen[ P03410] interacts with 4 human partners:{Q14493;P14678;Q969L4;P62318}

1134 Pathogen[ P14075] interacts with 4 human partners:{Q14493;P62318;P14678;Q969L4}

1135 Pathogen[ P0C206] interacts with 4 human partners:{P14678;P62318;Q14493;Q969L4}

1136 Pathogen[ P03363] interacts with 4 human partners:{P62318;Q969L4;Q14493;P14678}

1137 [Cluster 104]GO:0003948+F molecular\_function [name]  
 N4-(beta-N-acetylglucosaminyl)-L-asparaginase activity [def] "Catalysis of the reaction

1138 Pathogen[ Q2Q067] interacts with 1 human partners:{Q7L266}

1139 Pathogen[ P0C214] interacts with 1 human partners:{Q7L266}

1140 Pathogen[ P03346] interacts with 1 human partners:{Q7L266}

1141 Pathogen[ Q85601] interacts with 1 human partners:{Q7L266}

1142 Pathogen[ P14079] interacts with 2 human partners:{P20933;Q7L266}

1143 Pathogen[ P03383] interacts with 1 human partners:{Q7L266}

1144 Pathogen[ P03410] interacts with 2 human partners:{Q7L266;P20933}

1145 Pathogen[ P14075] interacts with 1 human partners:{Q7L266}

1146 Pathogen[ P0C206] interacts with 1 human partners:{Q7L266}

1147 Pathogen[ P03363] interacts with 1 human partners:{Q7L266}

1148 [Cluster 105]GO:0008413+F molecular\_function [name] 8-oxo-7,8-dihydroguanosine triphosphate pyrophosphatase activity [def] "Catalysis of the reaction

1149 Pathogen[ Q2Q067] interacts with 1 human partners:{P36639}

1150 Pathogen[ P0C214] interacts with 1 human partners:{P36639}

1151 Pathogen[ P03346] interacts with 1 human partners:{P36639}

1152 Pathogen[ Q85601] interacts with 1 human partners:{P36639}

1153 Pathogen[ P14079] interacts with 1 human partners:{P36639}

1154 Pathogen[ P03383] interacts with 1 human partners:{P36639}

1155 Pathogen[ P03410] interacts with 1 human partners:{P36639}

1156 Pathogen[ P14075] interacts with 1 human partners:{P36639}

1157 Pathogen[ P0C206] interacts with 1 human partners:{P36639}

1158 Pathogen[ P03363] interacts with 1 human partners:{P36639}

1159 [Cluster 106]GO:0003954+F molecular\_function [name] NADH dehydrogenase activity [def]  
 "Catalysis of the reaction

1160 Pathogen[ Q2Q067] interacts with 4 human partners:{O75489;O75251;O75306;Q9P0J0}

1161 Pathogen[ P0C214] interacts with 8 human  
 partners:{Q16795;O75306;P28331;P17568;Q9P0J0;O75489;O75251;Q9UI09}

1162 Pathogen[ P03346] interacts with 4 human partners:{O75489;O75251;O75306;Q9P0J0}

1163 Pathogen[ Q85601] interacts with 2 human partners:{Q9P0J0;O75306}

1164 Pathogen[ P14079] interacts with 7 human  
 partners:{O95169;O75306;P17568;O75251;Q9UI09;Q9P0J0;O75489}

1165 Pathogen[ P03383] interacts with 4 human partners:{O75251;O75489;O75306;Q9P0J0}

1166 Pathogen[ P03410] interacts with 8 human  
 partners:{P17568;O75251;Q9UI09;O75438;O75489;O95169;O75306;Q9P0J0}

1167 Pathogen[ P14075] interacts with 4 human partners:{075306;075251;075489;Q9P0J0}  
1168 Pathogen[ P0C206] interacts with 6 human  
partners:{075251;075306;Q9UI09;P17568;Q9P0J0;075489}  
1169 Pathogen[ P03363] interacts with 1 human partners:{Q9P0J0}  
1170 [Cluster 107]GO:0022891+F molecular\_function [name] substrate-specific transmembrane  
transporter activity [def] "Enables the transfer of a specific substance or group of  
related substances from one side of a membrane to the other." [GOC  
1171 Pathogen[ Q2Q067] interacts with 2 human partners:{P11166;P14672}  
1172 Pathogen[ P0C214] interacts with 3 human partners:{P11166;P11168;P14672}  
1173 Pathogen[ P03346] interacts with 2 human partners:{P11166;P14672}  
1174 Pathogen[ Q85601] interacts with 3 human partners:{P11168;P11166;P14672}  
1175 Pathogen[ P14079] interacts with 2 human partners:{P14672;P11166}  
1176 Pathogen[ P03383] interacts with 4 human partners:{P11168;P11169;P14672;P22732}  
1177 Pathogen[ P03410] interacts with 3 human partners:{P22732;P11166;P11168}  
1178 Pathogen[ P14075] interacts with 4 human partners:{P11169;P22732;P11168;P14672}  
1179 Pathogen[ P0C206] interacts with 3 human partners:{P11166;P11168;P14672}  
1180 Pathogen[ P03363] interacts with 2 human partners:{P14672;P11166}  
1181 [Cluster 108]GO:0051373+F molecular\_function [name] FATZ binding [def] "Interacting  
selectively and non-covalently with a family of FATZ proteins, filamin-, actinin-, and  
telethonin-binding proteins of the Z-disc of striated muscle. FATZ proteins are located  
in the Z-disc of the sarcomere and are involved in a complex network of interactions with  
other Z-band components." [PMID  
1182 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NP98}  
1183 Pathogen[ P0C214] interacts with 1 human partners:{Q9NP98}  
1184 Pathogen[ P03346] interacts with 1 human partners:{Q9NP98}  
1185 Pathogen[ Q85601] interacts with 1 human partners:{Q9NP98}  
1186 Pathogen[ P14079] interacts with 2 human partners:{Q9NP98;O15273}  
1187 Pathogen[ P03383] interacts with 1 human partners:{Q9NP98}  
1188 Pathogen[ P03410] interacts with 2 human partners:{Q9NP98;O15273}  
1189 Pathogen[ P14075] interacts with 1 human partners:{Q9NP98}  
1190 Pathogen[ P0C206] interacts with 1 human partners:{Q9NP98}  
1191 Pathogen[ P03363] interacts with 1 human partners:{Q9NP98}  
1192 [Cluster 109]GO:0030976+F molecular\_function [name] thiamine pyrophosphate binding  
[def] "Interacting selectively and non-covalently with thiamine pyrophosphate, the  
diphosphoric ester of thiamine. Acts as a coenzyme of several (de)carboxylases,  
transketolases, and alpha-oxoacid dehydrogenases." [CHEBI  
1193 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9ULD0}  
1194 Pathogen[ P0C214] interacts with 2 human partners:{P29401;Q9ULD0}  
1195 Pathogen[ P03346] interacts with 1 human partners:{Q9ULD0}  
1196 Pathogen[ Q85601] interacts with 1 human partners:{Q9ULD0}  
1197 Pathogen[ P14079] interacts with 2 human partners:{P29401;Q9ULD0}  
1198 Pathogen[ P03383] interacts with 1 human partners:{Q9ULD0}  
1199 Pathogen[ P03410] interacts with 1 human partners:{Q9ULD0}  
1200 Pathogen[ P14075] interacts with 1 human partners:{Q9ULD0}  
1201 Pathogen[ P0C206] interacts with 2 human partners:{Q9ULD0;P29401}  
1202 Pathogen[ P03363] interacts with 1 human partners:{Q9ULD0}  
1203 [Cluster 110]GO:0044183+F molecular\_function [name] protein binding involved in  
protein folding [def] "Interacting selectively and non-covalently with any protein or  
protein complex (a complex of two or more proteins that may include other nonprotein  
molecules) that contributes to the process of protein folding." [GOC  
1204 Pathogen[ Q2Q067] interacts with 3 human partners:{P08107;P27797;Q16401}  
1205 Pathogen[ P0C214] interacts with 3 human partners:{P27797;P08107;Q16401}  
1206 Pathogen[ P03346] interacts with 3 human partners:{P08107;Q16401;P27797}  
1207 Pathogen[ Q85601] interacts with 3 human partners:{P08107;P27797;Q16401}  
1208 Pathogen[ P14079] interacts with 3 human partners:{P08107;Q7Z5B4;Q16401}  
1209 Pathogen[ P03383] interacts with 3 human partners:{P08107;Q16401;P27797}  
1210 Pathogen[ P03410] interacts with 4 human partners:{Q7Z5B4;Q16401;P08107;P27797}  
1211 Pathogen[ P14075] interacts with 3 human partners:{Q16401;P27797;P08107}  
1212 Pathogen[ P0C206] interacts with 4 human partners:{P27797;Q7Z5B4;P08107;Q16401}  
1213 Pathogen[ P03363] interacts with 2 human partners:{P08107;P27797}  
1214 [Cluster 111]GO:0005484+F molecular\_function [name] SNAP receptor activity [def]  
"Acting as a marker to identify a membrane and interacting selectively with one or more  
SNAREs on another membrane to mediate membrane fusion." [GOC  
1215 Pathogen[ Q2Q067] interacts with 5 human  
partners:{O43752;O14662;O95721;O75558;Q9P2W9}  
1216 Pathogen[ P0C214] interacts with 4 human partners:{O95721;O43752;O75558;Q9P2W9}  
1217 Pathogen[ P03346] interacts with 7 human  
partners:{O43752;Q9P2W9;Q13190;O95721;O75558;O14662;Q86Y82}  
1218 Pathogen[ Q85601] interacts with 5 human  
partners:{Q9P2W9;O43752;O75558;O14662;O95721}  
1219 Pathogen[ P14079] interacts with 5 human  
partners:{O75558;O95721;O14662;O43752;Q9P2W9}  
1220 Pathogen[ P03383] interacts with 2 human partners:{O75558;O43752}  
1221 Pathogen[ P03410] interacts with 7 human  
partners:{Q13190;Q9P2W9;O14662;O95249;O75558;O43752;O95721}  
1222 Pathogen[ P14075] interacts with 2 human partners:{O75558;O43752}

1223 Pathogen[ P0C206] interacts with 5 human partners:{O14662;O95721;O43752;O75558;Q9P2W9}

1224 Pathogen[ P03363] interacts with 5 human partners:{O75558;Q9P2W9;O95721;O14662;O43752}

1225 [Cluster 112]GO:0036310+F

1226 Pathogen[ Q2Q067] interacts with 1 human partners:{P28370}

1227 Pathogen[ P0C214] interacts with 2 human partners:{Q92698;P28370}

1228 Pathogen[ P03346] interacts with 2 human partners:{Q92698;P28370}

1229 Pathogen[ Q85601] interacts with 2 human partners:{Q92698;P28370}

1230 Pathogen[ P14079] interacts with 2 human partners:{P28370;Q92698}

1231 Pathogen[ P03383] interacts with 1 human partners:{P28370}

1232 Pathogen[ P03410] interacts with 2 human partners:{Q92698;P28370}

1233 Pathogen[ P14075] interacts with 1 human partners:{P28370}

1234 Pathogen[ P0C206] interacts with 2 human partners:{P28370;Q92698}

1235 Pathogen[ P03363] interacts with 2 human partners:{P28370;Q92698}

1236 [Cluster 113]GO:0004647+F molecular\_function [name] phosphoserine phosphatase activity [def] "Catalysis of the reaction

1237 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UBQ0}

1238 Pathogen[ P0C214] interacts with 2 human partners:{Q9UBQ0;Q96GD0}

1239 Pathogen[ P03346] interacts with 1 human partners:{Q9UBQ0}

1240 Pathogen[ Q85601] interacts with 1 human partners:{Q9UBQ0}

1241 Pathogen[ P14079] interacts with 3 human partners:{Q96GD0;O15172;Q9UBQ0}

1242 Pathogen[ P03383] interacts with 1 human partners:{Q9UBQ0}

1243 Pathogen[ P03410] interacts with 3 human partners:{O15172;Q9UBQ0;Q96GD0}

1244 Pathogen[ P14075] interacts with 1 human partners:{Q9UBQ0}

1245 Pathogen[ P0C206] interacts with 3 human partners:{O15172;Q9UBQ0;Q96GD0}

1246 Pathogen[ P03363] interacts with 1 human partners:{Q9UBQ0}

1247 [Cluster 114]GO:0035259+F molecular\_function [name] glucocorticoid receptor binding [def] "Interacting selectively and non-covalently with a glucocorticoid receptor." [GOC

1248 Pathogen[ Q2Q067] interacts with 5 human partners:{P40763;P17676;P48552;P15036;Q04917}

1249 Pathogen[ P0C214] interacts with 5 human partners:{Q04917;P48552;P17676;P15036;P40763}

1250 Pathogen[ P03346] interacts with 6 human partners:{P17676;Q9P2W1;Q04917;P48552;P40763;P15036}

1251 Pathogen[ Q85601] interacts with 5 human partners:{P17676;P15036;P40763;Q04917;P48552}

1252 Pathogen[ P14079] interacts with 3 human partners:{P48552;P15036;Q04917}

1253 Pathogen[ P03383] interacts with 3 human partners:{P15036;P17676;P48552}

1254 Pathogen[ P03410] interacts with 5 human partners:{P17676;Q04917;P15036;P48552;P40763}

1255 Pathogen[ P14075] interacts with 3 human partners:{P15036;P48552;P17676}

1256 Pathogen[ P0C206] interacts with 5 human partners:{Q04917;P17676;P15036;P40763;P48552}

1257 Pathogen[ P03363] interacts with 4 human partners:{P17676;P48552;Q04917;P15036}

1258 [Cluster 115]GO:0005087+F molecular\_function [name] Ran guanyl-nucleotide exchange factor activity [def] "Stimulates the exchange of guanyl nucleotides associated with a GTPase of the Ran family. Under normal cellular physiological conditions, the concentration of GTP is higher than that of GDP, favoring the replacement of GDP by GTP in association with the GTPase." [GOC

1259 Pathogen[ Q2Q067] interacts with 3 human partners:{P18754;Q6VN20;Q9UGK8}

1260 Pathogen[ P0C214] interacts with 3 human partners:{Q9UGK8;Q6VN20;P18754}

1261 Pathogen[ P03346] interacts with 3 human partners:{P18754;Q6VN20;Q9UGK8}

1262 Pathogen[ Q85601] interacts with 3 human partners:{Q6VN20;P18754;Q9UGK8}

1263 Pathogen[ P14079] interacts with 3 human partners:{Q6VN20;Q9UGK8;P18754}

1264 Pathogen[ P03383] interacts with 2 human partners:{P18754;Q9UGK8}

1265 Pathogen[ P03410] interacts with 3 human partners:{Q6VN20;Q9UGK8;P18754}

1266 Pathogen[ P14075] interacts with 2 human partners:{P18754;Q9UGK8}

1267 Pathogen[ P0C206] interacts with 3 human partners:{P18754;Q9UGK8;Q6VN20}

1268 Pathogen[ P03363] interacts with 3 human partners:{Q9UGK8;Q6VN20;P18754}

1269 [Cluster 116]GO:0042169+F molecular\_function [name] SH2 domain binding [def] "Interacting selectively and non-covalently with a SH2 domain (Src homology 2) of a protein, a protein domain of about 100 amino-acid residues and belonging to the alpha + beta domain class." [GOC

1270 Pathogen[ Q2Q067] interacts with 6 human partners:{P46108;Q6PD62;Q5VWX1;Q86WV1;P37198;Q13501}

1271 Pathogen[ P0C214] interacts with 6 human partners:{Q13501;P37198;Q86WV1;P46108;Q5VWX1;Q6PD62}

1272 Pathogen[ P03346] interacts with 8 human partners:{Q6PD62;Q8I WV1;P37198;Q9Y3P8;Q5VWX1;P46108;Q86WV1;Q13501}

1273 Pathogen[ Q85601] interacts with 5 human partners:{Q6PD62;Q5VWX1;P46108;Q86WV1;Q13501}

1274 Pathogen[ P14079] interacts with 12 human partners:{Q86WV1;Q8NEM2;Q14118;Q6PD62;Q5VWX1;P37198;Q13501;Q8I WV1;O43761;P46108;Q9Y3P8;Q9GZY6}

1275 Pathogen[ P03383] interacts with 6 human



1276 partners:{Q6PD62;Q86WV1;Q5VWX1;Q13501;P37198;Q9Y3P8}  
Pathogen[ P03410] interacts with 11 human  
partners:{Q86WV1;Q6PD62;Q8IWW1;Q13501;Q5VWX1;O43761;Q9Y3P8;Q9GZY6;Q14118;Q8NEM2;P46108}

1277 Pathogen[ P14075] interacts with 8 human  
partners:{Q5VWX1;Q8IWW1;Q86WV1;Q6PD62;P37198;Q9Y3P8;Q8NEM2;Q13501}

1278 Pathogen[ P0C206] interacts with 8 human  
partners:{Q13501;Q6PD62;Q8IWW1;Q9Y3P8;Q86WV1;Q8NEM2;P46108;Q5VWX1}

1279 Pathogen[ P03363] interacts with 6 human  
partners:{Q9Y3P8;Q86WV1;Q5VWX1;P46108;P37198;Q6PD62}

1280 [Cluster 117]GO:0070064+F molecular\_function [name] proline-rich region binding [def] "Interacting selectively and non-covalently with a proline-rich region, i.e. a region that contains a high proportion of proline residues, in a protein." [GOC  
1281 Pathogen[ Q2Q067] interacts with 4 human partners:{O00213;P07737;P46937;Q5HYK7}  
1282 Pathogen[ P0C214] interacts with 3 human partners:{O00213;P46937;Q5HYK7}  
1283 Pathogen[ P03346] interacts with 6 human  
partners:{O00213;P46937;O75554;Q5HYK7;Q9UI14;P07737}

1284 Pathogen[ Q85601] interacts with 5 human  
partners:{O00213;Q5HYK7;P07737;Q9NQC7;P46937}

1285 Pathogen[ P14079] interacts with 6 human  
partners:{P07737;Q9UI14;O00213;P46937;Q5HYK7;Q9NQC7}

1286 Pathogen[ P03383] interacts with 4 human partners:{O00213;Q5HYK7;P07737;P46937}

1287 Pathogen[ P03410] interacts with 5 human  
partners:{Q5HYK7;O00213;P46937;P07737;Q9UI14}

1288 Pathogen[ P14075] interacts with 4 human partners:{O00213;Q5HYK7;P07737;P46937}

1289 Pathogen[ P0C206] interacts with 6 human  
partners:{Q9NQC7;P46937;Q9UI14;O00213;Q5HYK7;P07737}

1290 Pathogen[ P03363] interacts with 4 human partners:{O00213;P46937;Q5HYK7;P07737}

1291 [Cluster 118]GO:0008430+F molecular\_function [name] selenium binding [def] "Interacting selectively and non-covalently with selenium (Se)." [GOC  
1292 Pathogen[ Q2Q067] interacts with 2 human partners:{Q13228;Q9BQE4}  
1293 Pathogen[ P0C214] interacts with 5 human  
partners:{P59797;Q9BRT3;Q13228;Q9BQE4;O60613}

1294 Pathogen[ P03346] interacts with 4 human partners:{Q13228;Q9BRT3;P63302;Q9Y2J0}

1295 Pathogen[ Q85601] interacts with 4 human partners:{O60613;Q13228;P59797;Q9BQE4}

1296 Pathogen[ P14079] interacts with 7 human  
partners:{Q13228;Q9BQE4;O60613;P63302;Q8IZQ5;Q9BRT3;P59797}

1297 Pathogen[ P03383] interacts with 4 human partners:{Q13228;O60613;Q9BQE4;P59797}

1298 Pathogen[ P03410] interacts with 8 human  
partners:{Q9BRT3;P63302;O60613;P59797;Q9Y2J0;Q9BQE4;Q8IZQ5;Q13228}

1299 Pathogen[ P14075] interacts with 5 human  
partners:{Q9BQE4;P63302;P59797;O60613;Q13228}

1300 Pathogen[ P0C206] interacts with 7 human  
partners:{Q9Y2J0;Q13228;O60613;Q9BQE4;P63302;P59797;Q9BRT3}

1301 Pathogen[ P03363] interacts with 3 human partners:{P59797;Q13228;P63302}

1302 [Cluster 119]GO:0000976+F molecular\_function [name] transcription regulatory region sequence-specific DNA binding [def] "Interacting selectively and non-covalently with a specific sequence of DNA that is part of a regulatory region that controls transcription of that section of the DNA. The transcribed region might be described as a gene, cistron, or operon." [GOC  
1303 Pathogen[ Q2Q067] interacts with 24 human  
partners:{Q92988;P0CJ88;Q9UBX2;P0CJ87;O15266;Q9NQX1;P15976;Q96PT3;A6NLW8;P0CJ89;P0CJ90;P0CJ86;P0CJ85;O15370;O43812;P19838;O75360;Q07687;Q9UMQ3;Q04743;Q96PT4;A6NJ46;Q6RFH8;P18146}

1304 Pathogen[ P0C214] interacts with 11 human  
partners:{P19838;O15266;Q07687;Q6RFH8;O43812;O75360;Q9UMQ3;P18146;Q9NQX1;Q92988;O15370}

1305 Pathogen[ P03346] interacts with 44 human  
partners:{Q06945;P47902;Q9NQX1;P52954;P0CJ88;A6NJ46;O15370;P0CJ87;Q14774;Q99626;Q04743;P0CJ85;P56177;P0CJ89;O60902;P78426;P0CJ90;P17542;P15976;O15266;P17481;Q96PT4;O60479;P31273;O14627;Q9UBX2;A6NMT0;Q5XKR4;P19838;P56178;O75360;O43812;A6NLW8;P18146;Q6RFH8;Q9UIW0;Q9UMQ3;P0CJ86;Q96PT3;Q6ZNG2;Q8NHV9;Q9HBU1;Q92988;Q96SF7}

1306 Pathogen[ Q85601] interacts with 22 human  
partners:{P18146;O75360;A6NJ46;P15976;P0CJ87;Q96PT3;O15370;P0CJ88;Q9NQX1;Q9UMQ3;O15266;P0CJ90;P0CJ89;O43812;Q9UBX2;Q6RFH8;P19838;Q07687;P0CJ86;A6NLW8;P0CJ85;Q92988}

1307 Pathogen[ P14079] interacts with 21 human  
partners:{Q9NQX1;P0CJ89;P0CJ88;O15370;Q96PT4;P0CJ86;O43812;P15976;P0CJ90;P0CJ87;Q6RFH8;O15266;A6NLW8;O75360;Q96PT3;Q9UMQ3;Q04743;Q07687;Q9UBX2;Q92988;P0CJ85}

1308 Pathogen[ P03383] interacts with 10 human  
partners:{O15266;Q07687;O75360;Q9UMQ3;Q6RFH8;Q9NQX1;P18146;O15370;P19838;Q92988}

1309 Pathogen[ P03410] interacts with 25 human  
partners:{P0CJ87;P19838;Q96PT3;Q9UMQ3;O15266;Q9UBX2;P0CJ85;P0CJ90;Q6ZNG2;A6NJ46;Q6RFH8;Q92988;Q07687;A6NLW8;P0CJ89;P0CJ88;P0CJ86;O43812;O75360;O15370;P18146;Q04743;Q9NQX1;Q96PT4;P15976}

1310 Pathogen[ P14075] interacts with 10 human  
partners:{Q6RFH8;P18146;Q92988;Q07687;Q9NQX1;O15370;O75360;Q9UMQ3;P19838;O15266}

1311 Pathogen[ P0C206] interacts with 26 human partners:{Q9NQX1;Q07687;P0CJ87;P0CJ90;O15266;Q04743;O43812;Q9UBX2;Q9UMQ3;Q92988;P0CJ86;P0CJ89;P15976;P0CJ85;P18146;O75360;Q6ZNG2;P19838;A6NJ46;Q6RFH8;P0CJ88;A6NLW8;O15370;Q96PT4;P56177;Q96PT3}

1312 Pathogen[ P03363] interacts with 39 human partners:{Q9NQX1;P56179;O15370;O15266;P31273;O43812;Q9UIW0;P47902;P0CJ87;P0CJ88;O75360;P18146;P0CJ86;Q9UBX2;Q99626;P56177;P0CJ89;P17481;O60902;O60479;P0CJ90;Q96PT4;P0CJ85;Q6ZNG2;A6NMT0;Q5XKR4;P19838;Q6RFH8;Q92988;Q9C056;A6NLW8;Q9UMQ3;Q96PT3;Q8NHV9;Q07687;O14627;Q9HBUI;A6NJ46;Q04743}

1313 [Cluster 120]GO:0004523+F molecular\_function [name] ribonuclease H activity [def] "Catalysis of the endonucleolytic cleavage of RNA in RNA-DNA hybrids to 5'-phosphomonoesters." [EC

1314 Pathogen[ Q2Q067] interacts with 5 human partners:{O60930;P27695;Q9UQ84;P39748;O75792}

1315 Pathogen[ P0C214] interacts with 5 human partners:{P27695;O75792;O60930;P39748;Q9UQ84}

1316 Pathogen[ P03346] interacts with 5 human partners:{O60930;Q9UQ84;P27695;P39748;O75792}

1317 Pathogen[ Q85601] interacts with 5 human partners:{Q9UQ84;O75792;O60930;P39748;P27695}

1318 Pathogen[ P14079] interacts with 5 human partners:{O75792;P27695;O60930;Q9UQ84;P39748}

1319 Pathogen[ P03383] interacts with 3 human partners:{O75792;O60930;P27695}

1320 Pathogen[ P03410] interacts with 6 human partners:{O75792;P39748;O60930;P63135;P27695;Q9UQ84}

1321 Pathogen[ P14075] interacts with 3 human partners:{P27695;O60930;O75792}

1322 Pathogen[ P0C206] interacts with 5 human partners:{P27695;Q9UQ84;O60930;O75792;P39748}

1323 Pathogen[ P03363] interacts with 2 human partners:{O75792;O60930}

1324 [Cluster 121]GO:0070412+F molecular\_function [name] R-SMAD binding [def] "Interacting selectively and non-covalently with a receptor-regulated SMAD signaling protein." [GOC

1325 Pathogen[ Q2Q067] interacts with 11 human partners:{P01100;Q9H4X1;Q9UPN9;Q13485;P84022;O00255;O43541;Q15327;Q15796;P35813;Q9H6Z4}

1326 Pathogen[ P0C214] interacts with 13 human partners:{Q15327;Q9H4X1;P35813;P01100;P84022;Q9HCE7;Q13485;Q15796;O43541;P05412;Q9UPN9;Q9H6Z4;O00255}

1327 Pathogen[ P03346] interacts with 13 human partners:{Q9UPN9;P05412;Q9H4X1;P35813;Q15796;Q15327;P84022;O43541;O00255;Q13485;Q9H6Z4;O75593;P01100}

1328 Pathogen[ Q85601] interacts with 12 human partners:{Q9UPN9;Q9H4X1;O43541;Q9H6Z4;P01100;P05412;Q15327;O00255;P84022;P35813;Q13485;Q15796}

1329 Pathogen[ P14079] interacts with 8 human partners:{P35813;Q9UPN9;Q15327;Q9H6Z4;O43541;P05412;O00255;P01100}

1330 Pathogen[ P03383] interacts with 12 human partners:{Q9H4X1;Q13485;Q9UPN9;P35813;P84022;O43541;O00255;Q15327;P01100;Q9H6Z4;Q15796;P05412}

1331 Pathogen[ P03410] interacts with 12 human partners:{P84022;Q9H4X1;P35813;Q15327;P01100;Q13485;P05412;O43541;O00255;Q15796;Q9H6Z4;Q9UPN9}

1332 Pathogen[ P14075] interacts with 12 human partners:{Q9H6Z4;Q9H4X1;P35813;P05412;O43541;Q15327;Q15796;Q13485;O00255;Q9UPN9;P01100;P84022}

1333 Pathogen[ P0C206] interacts with 12 human partners:{P84022;O43541;Q9H4X1;Q9UPN9;Q15327;O00255;P05412;Q15796;P01100;Q13485;Q9H6Z4;P35813}

1334 Pathogen[ P03363] interacts with 10 human partners:{Q9H4X1;Q9UPN9;Q15327;O43541;Q15796;P84022;Q13485;Q9H6Z4;P05412;P01100}

1335 [Cluster 122]GO:0030145+F molecular\_function [name] manganese ion binding [def] "Interacting selectively and non-covalently with manganese (Mn) ions." [GOC

1336 Pathogen[ Q2Q067] interacts with 11 human partners:{Q8IU60;P49959;O95551;O14829;Q86TP1;P39748;P28838;P35813;O75688;Q9NVV4;P51003}

1337 Pathogen[ P0C214] interacts with 15 human partners:{O95551;Q13907;P35813;P49959;P35558;P28838;O14829;P51003;Q8N819;Q86TP1;Q8IU60;P39748;O75688;P48163;Q9NVV4}

1338 Pathogen[ P03346] interacts with 10 human partners:{P35813;O14829;O95551;Q8IU60;P51003;Q9NVV4;O75688;P49959;P39748;Q86TP1}

1339 Pathogen[ Q85601] interacts with 11 human partners:{O75688;O14829;P49959;Q86TP1;Q9NVV4;P39748;P51003;P35813;Q13907;O95551;Q8IU60}

1340 Pathogen[ P14079] interacts with 12 human partners:{P28838;Q8IU60;Q13907;Q8NDH3;Q86TP1;P35813;O14829;Q9NVV4;O95551;O75688;P51003;P39748}

1341 Pathogen[ P03383] interacts with 7 human  
partners:{Q9NVV4;P51003;Q8IU60;P28838;P35813;Q86TP1;O95551}

1342 Pathogen[ P03410] interacts with 13 human  
partners:{Q8IU60;P49959;P35813;Q8NDH3;Q86TP1;P39748;Q9NVV4;P28838;P51003;O75688;O95551;Q13907;O14829}

1343 Pathogen[ P14075] interacts with 7 human  
partners:{P51003;P35813;Q9NVV4;Q8IU60;P28838;O95551;Q86TP1}

1344 Pathogen[ P0C206] interacts with 13 human  
partners:{Q86TP1;P49959;P28838;P51003;O75688;Q13907;O95551;Q9NVV4;Q8NDH3;O14829;P39748;Q8IU60;P35813}

1345 Pathogen[ P03363] interacts with 7 human  
partners:{Q9NVV4;O14829;P51003;O95551;O75688;Q86TP1;Q8IU60}

1346 [Cluster 123]GO:0016746+F molecular\_function [name] transferase activity, transferring acyl groups [def] "Catalysis of the transfer of an acyl group from one compound (donor) to another (acceptor)." [GOC

1347 Pathogen[ Q2Q067] interacts with 16 human  
partners:{Q9H9T3;P30419;P21980;Q93015;P10515;O14929;Q9UKN8;Q8WU03;P22557;P13196;Q9GZZ1;Q9BSU3;Q92831;P41227;Q92993;P21673}

1348 Pathogen[ P0C214] interacts with 34 human  
partners:{Q92993;O95260;P41227;P22735;Q93015;O14929;Q9UKN8;Q9BSU3;Q16613;Q9GZZ1;Q9Y232;O60551;P22557;P13196;O75223;P23786;Q9H0A0;Q9BWD1;Q8WU03;O95251;Q5SZD4;Q9H9T3;Q92831;P21980;P42765;Q969I3;A6NK58;P30419;P21673;Q96EK6;Q8N159;P10515;P36957;Q6IB77}

1349 Pathogen[ P03346] interacts with 29 human  
partners:{P21980;Q15788;Q8WYB5;Q9BSU3;Q93015;O95260;Q8WU03;P23786;P21673;Q92831;P22557;P13196;Q9UKN8;Q92794;P41227;Q9H9T3;Q9BWD1;O95251;Q9H7Z6;P42765;Q5SZD4;Q8WUY8;Q9Y232;Q9GZZ1;O15516;Q92993;P22735;P10515;O14929}

1350 Pathogen[ Q85601] interacts with 26 human  
partners:{Q5SZD4;Q9GZZ1;Q93015;O95251;Q9H9T3;O15516;Q8WU03;Q9H7Z6;Q16613;P21673;Q92831;O60551;P13196;Q9UKN8;P41227;O14929;O95260;P21980;Q96EK6;Q6IB77;Q9BSU3;Q9BWD1;Q92993;P30419;P10515;Q969I3}

1351 Pathogen[ P14079] interacts with 35 human  
partners:{O75223;Q8N159;P41227;Q86UY6;P13196;P22735;Q9H0A0;Q9UKN8;Q9BVM4;O95251;P21980;P22557;Q5SZD4;Q969I3;Q9BTE0;Q16613;Q9BSU3;O14929;Q9H9T3;Q9GZZ1;Q6IB77;O60502;Q8N8M0;O60551;P30419;Q15788;Q93015;Q8WUY8;P10515;Q96EK6;Q9Y234;O95260;P21673;A6NK58;Q92993}

1352 Pathogen[ P03383] interacts with 20 human  
partners:{Q9UKN8;Q92831;Q9GZZ1;Q93015;O95251;P41227;Q16613;Q92993;Q9BSU3;Q8N159;O14929;P10515;Q8WU03;Q8WUY8;P21980;Q9H0A0;P21673;Q969I3;Q9H9T3;Q5SZD4}

1353 Pathogen[ P03410] interacts with 41 human  
partners:{Q6IED9;Q92831;Q9BSU3;Q9GZZ1;Q93015;O14929;Q8N159;O60551;O95251;Q9H0A0;O60502;Q6IB77;P30419;O95260;Q96EK6;Q5SZD4;Q969I3;Q9H9T3;P23786;A6NK58;P42765;P22557;O75600;P41227;Q9Y234;Q86UY6;Q8N8M0;Q16613;P21673;P21980;Q9BVM4;O75223;Q8WU03;Q9UKN8;Q92993;Q8WUY8;Q9BTE0;P13196;P10515;P22735;Q16635}

1354 Pathogen[ P14075] interacts with 22 human  
partners:{Q5SZD4;P41227;Q92831;Q93015;Q9BSU3;Q8N159;Q16613;O14929;Q9H0A0;Q8WU03;Q92993;Q9BVM4;O95251;Q8WUY8;P10515;Q9H9T3;Q9UKN8;Q969I3;Q9GZZ1;P21980;P21673;Q96EK6}

1355 Pathogen[ P0C206] interacts with 37 human  
partners:{Q9Y234;Q9Y232;Q9GZZ1;O95251;O95260;Q9BVM4;P30419;Q9H9T3;P41227;P21980;Q92993;Q969I3;Q92831;P23786;Q8N159;P21673;Q93015;O15516;O14929;Q9UKN8;P22557;Q8WUY8;Q6IB77;Q9BWD1;Q8WU03;Q96EK6;O60551;Q9BSU3;P13196;A6NK58;Q16613;Q5SZD4;P10515;Q15788;P22735;Q9H0A0;Q9H7Z6}

1356 Pathogen[ P03363] interacts with 15 human  
partners:{P41227;Q92831;Q9BWD1;O95260;P21673;Q93015;Q9BSU3;O14929;P10515;Q9GZZ1;P13196;Q9UKN8;Q9H9T3;O95251;Q92993}

1357 [Cluster 124]GO:0000175+F molecular\_function [name] 3'-5'-exoribonuclease activity [def] "Catalysis of the sequential cleavage of mononucleotides from a free 3' terminus of an RNA molecule." [GOC

1358 Pathogen[ Q2Q067] interacts with 8 human  
partners:{Q8TCS8;Q9NQT4;Q9Y2L1;Q06265;Q13868;Q9NPD3;Q15024;Q8TF46}

1359 Pathogen[ P0C214] interacts with 8 human  
partners:{Q15024;Q9Y2L1;Q8TF46;Q9NPD3;Q8TCS8;Q13868;Q06265;Q9NQT4}

1360 Pathogen[ P03346] interacts with 9 human  
partners:{Q15024;Q8TCS8;Q9Y2L1;Q9NQT5;Q06265;Q9NQT4;Q9NPD3;Q8TF46;Q13868}

1361 Pathogen[ Q85601] interacts with 8 human  
partners:{Q9NPD3;Q13868;Q9Y2L1;Q9NQT4;Q8TCS8;Q15024;Q06265;Q8TF46}

1362 Pathogen[ P14079] interacts with 9 human  
partners:{Q15024;Q9NQT4;Q13868;Q9NPD3;Q8TF46;Q9Y2L1;Q96AZ6;Q06265;Q8TCS8}

1363 Pathogen[ P03383] interacts with 7 human  
partners:{Q06265;Q9Y2L1;Q8TCS8;Q9NPD3;Q9NQT4;Q13868;Q15024}

1364 Pathogen[ P03410] interacts with 9 human  
partners:{Q9Y2L1;Q8TCS8;Q06265;Q8TF46;Q13868;Q15024;Q96AZ6;Q9NQT4;Q9NPD3}

1365 Pathogen[ P14075] interacts with 7 human  
partners:{Q9NPD3;Q9Y2L1;Q13868;Q9NQT4;Q8TCS8;Q15024;Q06265}

1366 Pathogen[ P0C206] interacts with 8 human  
partners:{Q8TCS8;Q9NPD3;Q13868;Q06265;Q15024;Q9Y2L1;Q9NQT4;Q8TF46}

1367 Pathogen[ P03363] interacts with 7 human  
partners:{Q9NQT4;Q15024;Q9NPD3;Q9Y2L1;Q13868;Q9NQT5;Q8TF46}

1368 [Cluster 125]GO:0016433+F molecular\_function [name] rRNA (adenine) methyltransferase activity [def] "Catalysis of the transfer of a methyl group from S-adenosyl-L-methionine to an adenine residue in an rRNA molecule." [GOC

1369 Pathogen[ Q2Q067] interacts with 2 human partners:{Q8WVM0;Q9UNQ2}

1370 Pathogen[ P0C214] interacts with 2 human partners:{Q9UNQ2;Q8WVM0}

1371 Pathogen[ P03346] interacts with 2 human partners:{Q9UNQ2;Q8WVM0}

1372 Pathogen[ Q85601] interacts with 2 human partners:{Q8WVM0;Q9UNQ2}

1373 Pathogen[ P14079] interacts with 2 human partners:{Q9UNQ2;Q8WVM0}

1374 Pathogen[ P03383] interacts with 2 human partners:{Q9UNQ2;Q8WVM0}

1375 Pathogen[ P03410] interacts with 2 human partners:{Q9UNQ2;Q8WVM0}

1376 Pathogen[ P14075] interacts with 2 human partners:{Q9UNQ2;Q8WVM0}

1377 Pathogen[ P0C206] interacts with 2 human partners:{Q8WVM0;Q9UNQ2}

1378 Pathogen[ P03363] interacts with 2 human partners:{Q9UNQ2;Q8WVM0}

1379 [Cluster 126]GO:0019788+F molecular\_function [name] NEDD8 ligase activity [def] "Catalysis of ATP-dependent isopeptide bond formation between the carboxy-terminal residues of the small ubiquitin-related modifier NEDD8 and a substrate lysine residue." [GOC

1380 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9UBF6;P62877}

1381 Pathogen[ P0C214] interacts with 4 human partners:{P62877;Q969M7;P61081;Q9UBF6}

1382 Pathogen[ P03346] interacts with 2 human partners:{P62877;Q9UBF6}

1383 Pathogen[ Q85601] interacts with 3 human partners:{P62877;Q9UBF6;Q969M7}

1384 Pathogen[ P14079] interacts with 3 human partners:{Q9UBF6;P62877;Q969M7}

1385 Pathogen[ P03383] interacts with 2 human partners:{Q9UBF6;P62877}

1386 Pathogen[ P03410] interacts with 3 human partners:{Q9UBF6;P62877;Q969M7}

1387 Pathogen[ P14075] interacts with 2 human partners:{Q9UBF6;P62877}

1388 Pathogen[ P0C206] interacts with 3 human partners:{P62877;Q969M7;Q9UBF6}

1389 Pathogen[ P03363] interacts with 4 human partners:{P61081;Q9UBF6;P62877;Q969M7}

1390 [Cluster 127]GO:0051018+F molecular\_function [name] protein kinase A binding [def] "Interacting selectively and non-covalently with any subunit of protein kinase A." [GOC

1391 Pathogen[ Q2Q067] interacts with 8 human partners:{Q9P0M2;Q9NYF0;Q8NFW9;Q2M3C7;Q02952;Q02040;Q13023;O75969}

1392 Pathogen[ P0C214] interacts with 8 human partners:{Q8NFW9;Q13023;Q9P0M2;O75969;Q2M3C7;Q5SW24;Q02040;Q9NYF0}

1393 Pathogen[ P03346] interacts with 9 human partners:{Q9P0M2;O75969;Q13023;Q2M3C7;Q9UKA4;Q02952;Q8NFW9;Q9NYF0;Q02040}

1394 Pathogen[ Q85601] interacts with 7 human partners:{Q8NFW9;O75969;Q9NYF0;Q2M3C7;Q9P0M2;Q13023;Q5SW24}

1395 Pathogen[ P14079] interacts with 14 human partners:{Q02952;Q9UKA4;Q5JQC9;Q5SW24;Q13023;Q9P0M2;P24588;Q96B18;Q8NFW9;Q02040;O43687;Q2M3C7;O75969;Q9NYF0}

1396 Pathogen[ P03383] interacts with 6 human partners:{Q02040;Q13023;Q2M3C7;Q9NYF0;Q02952;O75969}

1397 Pathogen[ P03410] interacts with 14 human partners:{Q9UKA4;Q5JQC9;Q96B18;O75969;Q8NFW9;Q9P0M2;Q2M3C7;Q5SW24;Q13023;Q9NYF0;O43687;Q02952;P24588;Q02040}

1398 Pathogen[ P14075] interacts with 6 human partners:{Q02040;O75969;Q2M3C7;Q02952;Q9NYF0;Q13023}

1399 Pathogen[ P0C206] interacts with 12 human partners:{Q5JQC9;Q13023;Q8NFW9;Q02040;Q96B18;Q5SW24;Q9P0M2;O75969;Q02952;Q9NYF0;Q2M3C7;Q9UKA4}

1400 Pathogen[ P03363] interacts with 8 human partners:{Q02952;Q8NFW9;Q9NYF0;Q9P0M2;Q02040;Q13023;O75969;Q2M3C7}

1401 [Cluster 128]GO:0017075+F molecular\_function [name] syntaxin-1 binding [def] "Interacting selectively and non-covalently with the SNAP receptor syntaxin-1." [GOC

1402 Pathogen[ Q2Q067] interacts with 4 human partners:{O00186;O75150;Q15833;Q9NX95}

1403 Pathogen[ P0C214] interacts with 4 human partners:{Q15833;O00186;Q9NX95;O75150}

1404 Pathogen[ P03346] interacts with 4 human partners:{Q15833;O75150;Q9NX95;O00186}

1405 Pathogen[ Q85601] interacts with 4 human partners:{O00186;Q15833;O75150;Q9NX95}

1406 Pathogen[ P14079] interacts with 5 human partners:{O14810;Q9NX95;O00186;Q6PUV4;Q15833}

1407 Pathogen[ P03383] interacts with 3 human partners:{O00186;Q9NX95;O75150}

1408 Pathogen[ P03410] interacts with 6 human partners:{Q15833;O14810;O75150;Q6PUV4;O00186;Q9NX95}

1409 Pathogen[ P14075] interacts with 3 human partners:{O00186;O75150;Q9NX95}

1410 Pathogen[ P0C206] interacts with 5 human partners:{Q9NX95;Q6PUV4;Q15833;O75150;O00186}

1411 Pathogen[ P03363] interacts with 4 human partners:{O75150;O00186;Q15833;Q9NX95}

1412 [Cluster 129]GO:0003743+F molecular\_function [name] translation initiation factor activity [def] "Functions in the initiation of ribosome-mediated translation of mRNA into a polypeptide." [ISBN

1413 Pathogen[ Q2Q067] interacts with 39 human partners:{P23588;P05198;Q7L2H7;Q99613;O00303;O60841;Q9BY44;Q9UBQ5;P47813;P49770;P56537;Q14152;Q92905;Q9Y262;Q14240;O43583;Q9UI10;Q14232;P78344;Q9NR50;P41567;O14602;P60228;Q9UKV8;O75822;Q13144;Q9H2K0;P20042;O60573;Q9UJA5;O15371;Q04637;P06730;P60842;Q15056;O75821;O15372;Q13347;P41214}

1414 Pathogen[ P0C214] interacts with 46 human

partners:{P60228;Q9UI10;O60841;P60842;P49770;Q9Y262;Q9BY44;O60739;O15372;P23588;Q14152;P47813;Q8N5X7;A6NMX2;Q99613;O14602;O75821;P78344;Q15056;Q14232;Q8N9N8;O00303;P41091;Q92905;Q9NR50;Q13144;Q14240;Q7L2H7;P41567;Q9UKV8;Q04637;O75822;P05198;P55884;Q9UJA5;Q9H2K0;B5ME19;P20042;Q9UBQ5;P06730;P56537;O43583;O15371;Q13347;O60573;P41214}

1415 Pathogen[ P03346] interacts with 46 human partners:{P41567;O60739;B5ME19;P06730;P41091;P47813;Q9UBQ5;Q13347;O60841;Q8N5X7;P78344;P56537;O60573;Q15056;P55884;Q14152;O75821;P60842;O14602;O00303;O43583;Q14232;P60228;Q7L2H7;Q14240;P49770;Q9UKV8;Q8N9N8;Q99613;Q92905;O75822;P23588;Q9BY44;Q9UJA5;Q9H2K0;Q04637;A6NMX2;O15371;P41214;Q13144;P20042;Q9NR50;O15372;Q9UI10;Q9Y262;P05198}

1416 Pathogen[ Q85601] interacts with 39 human partners:{P47813;P41091;Q99613;Q9UBQ5;P06730;Q14240;P23588;Q8N5X7;Q04637;P56537;Q9BY44;Q9NR50;O00303;P20042;Q13144;P49770;O15371;B5ME19;P60228;O60573;Q92905;Q9Y262;P78344;P60842;Q9UKV8;Q7L2H7;Q13347;O75822;P41567;O14602;Q14152;P05198;Q9UJA5;O15372;P41214;O43583;Q14232;O75821;Q9UI10}

1417 Pathogen[ P14079] interacts with 46 human partners:{Q8N9N8;Q7L2H7;A6NMX2;P20042;Q9UKV8;P60842;O14602;Q15056;O00303;O75821;P06730;O60739;Q9UI10;Q9H2K0;P47813;P41567;Q9BY44;P41091;P56537;O43432;P05198;P46199;Q14240;O15371;Q13144;P78344;P23588;O60573;B5ME19;Q9NR50;O75822;Q99613;Q8N5X7;O43583;Q9UJA5;Q92905;Q9Y262;O60841;Q13347;Q14232;P41214;Q9UBQ5;Q14152;Q04637;O15372;P55884}

1418 Pathogen[ P03383] interacts with 35 human partners:{O15371;Q9UBQ5;P60228;P41567;P56537;Q92905;Q9UI10;Q9Y262;O60841;Q14152;O60573;Q9BY44;O14602;P20042;Q13144;P23588;P06730;Q9NR50;P47813;P41214;Q9H2K0;P05198;Q7L2H7;P49770;P78344;Q9UKV8;Q99613;O75822;Q04637;Q14232;Q13347;O43583;Q9UJA5;O15372;O75821}

1419 Pathogen[ P03410] interacts with 48 human partners:{Q9NR50;Q9UKV8;O60841;O75822;B5ME19;O15372;P06730;Q9H2K0;P20042;P46199;Q92905;Q7L2H7;Q14232;O43583;O43432;Q99613;P47813;Q14152;P41214;P49770;P41567;P55884;O15371;Q9UJA5;O60739;Q15056;O14602;P60842;O00303;O60573;O75821;Q9BY44;Q8N5X7;Q8N9N8;Q13347;P41091;Q04637;Q9Y262;A6NMX2;P56537;P60228;P78344;Q9UBQ5;P23588;Q9UI10;Q14240;Q13144;P05198}

1420 Pathogen[ P14075] interacts with 36 human partners:{O60841;P56537;P20042;O15372;Q7L2H7;P23588;P78344;Q99613;O75821;P06730;Q9UI10;P47813;P05198;O15371;O43583;P60228;Q9H2K0;O60573;O60739;Q14232;P41214;Q04637;P49770;O14602;Q9UKV8;Q9Y262;Q13347;O75822;Q9NR50;Q9UJA5;Q13144;P41567;Q9UBQ5;Q92905;Q9BY44;Q14152}

1421 Pathogen[ P0C206] interacts with 44 human partners:{P41091;Q7L2H7;Q99613;P20042;O14602;Q14232;P41567;Q9UKV8;Q8N9N8;Q9NR50;P06730;Q13144;P60228;P49770;P05198;O60841;Q8N5X7;O60739;Q9H2K0;B5ME19;Q14152;Q9UI10;A6NMX2;O15371;P47813;P56537;Q14240;Q9UJA5;P23588;P78344;Q9BY44;O60573;P41214;Q04637;O43583;O75821;Q13347;P60842;O00303;Q9Y262;O15372;O75822;Q92905;Q9UBQ5}

1422 Pathogen[ P03363] interacts with 44 human partners:{O60739;O15371;Q9BY44;O60841;Q13347;Q9UI10;Q15056;O14602;Q9UBQ5;Q14152;Q9UKV8;O15372;P41091;P41567;P23588;P05198;Q9NR50;Q8N5X7;Q14240;P20042;P47813;A6NMX2;P56537;Q7L2H7;B5ME19;Q9UJA5;P49770;P60228;P41214;P60842;O43583;Q9Y262;O60573;Q13144;O75821;P78344;P55884;P06730;Q92905;O75822;Q8N9N8;Q99613;Q04637;O00303}

1423 [Cluster 130]GO:0019211+F molecular\_function [name] phosphatase activator activity [def] "Increases the activity of a phosphatase, an enzyme which catalyzes of the removal of a phosphate group from a substrate molecule." [GOC

1424 Pathogen[ Q2Q067] interacts with 2 human partners:{Q15257;P35269}

1425 Pathogen[ P0C214] interacts with 2 human partners:{P35269;Q15257}

1426 Pathogen[ P03346] interacts with 2 human partners:{Q15257;P35269}

1427 Pathogen[ Q85601] interacts with 2 human partners:{P35269;Q15257}

1428 Pathogen[ P14079] interacts with 2 human partners:{P35269;Q8WU20}

1429 Pathogen[ P03383] interacts with 2 human partners:{P35269;Q15257}

1430 Pathogen[ P03410] interacts with 3 human partners:{Q15257;P35269;Q8WU20}

1431 Pathogen[ P14075] interacts with 2 human partners:{Q15257;P35269}

1432 Pathogen[ P0C206] interacts with 3 human partners:{P35269;Q8WU20;Q15257}

1433 Pathogen[ P03363] interacts with 2 human partners:{P35269;Q15257}

1434 [Cluster 131]GO:0008017+F molecular\_function [name] microtubule binding [def] "Interacting selectively and non-covalently with microtubules, filaments composed of tubulin monomers." [GOC

1435 Pathogen[ Q2Q067] interacts with 49 human partners:{P04156;Q12798;Q9UH99;Q9P219;Q96RT8;Q7Z460;P08151;P78406;P54274;Q969S2;Q9P1Y5;Q86XR8;Q9NXR1;P02511;Q96SN8;P42704;Q08AD1;Q96N16;O75381;P06746;P60520;Q9Y3A5;O94811;Q6PGN9;Q9H9H5;Q96RT7;Q9UBK9;Q5JR59;P49354;P04406;O15527;P50570;Q02241;Q9UPY8;Q5T5Y3;O95998;Q96BD8;P41208;O15182;Q9BXS6;Q86VS8;Q92597;Q66K74;Q15691;Q8WVK7;Q96ED9;P49754;O15392;O14576}

1436 Pathogen[ P0C214] interacts with 50 human partners:{P60520;P49354;P49754;Q08AD1;Q02241;P06746;Q96ED9;P02511;O94811;Q9P1Y5;Q96SN8;Q9BXS6;P78406;P42704;O75381;Q15691;Q96RT7;Q5JR59;Q9UH99;Q6PGN9;Q92597;Q86VS8;Q12798;Q96BD8;Q8IYX8;Q9H9H5;Q86XR8;Q5T5Y3;Q96RT8;P41208;Q9BQI5;O15392;Q9UPY8;P04156;O14576;Q5VZ66;Q7Z460;P08151;P50570;O15527;Q9P219;Q9NXR1;Q9Y3A5;Q9UBK9;Q9H902;P04406;Q66K74;P54274;Q8WVK7;Q96N16}

1437 Pathogen[ P03346] interacts with 63 human partners:{O95166;Q5T5Y3;Q9BXS6;P50570;O14576;P04406;Q86XR8;O15392;Q86VS8;Q96N16;Q5JR59;Q96RT8;P60520;P49754;P78406;Q15691;P54274;Q08AD1;Q9UH99;Q66K74;Q9NXR1;Q9P1Y5;Q8IYX8;O75381;Q9P219;Q9H902;Q15555;Q969S2;P41208;P49354;Q96AA8;P02511;Q9H9H5;Q92597;Q96SN8;

- 1438 Pathogen[ Q85601] interacts with 60 human  
partners: {Q6PGN9;O15527;P08151;Q02241;P36405;Q86VS8;Q969S2;O15182;Q96RT8;O95166;Q9UBP0;Q12798;Q96SN8;P78406;P30622;Q9P1Y5;Q9Y3A5;Q66K74;Q9BXS6;O15392;P49754;Q9P219;Q08AD1;Q86XR8;Q9UH99;P49354;Q15555;Q6P597;Q9H9H5;O94811;Q96AA8;P02511;Q15691;P42704;Q96BD8;P50570;Q5T5Y3;O14576;Q9H902;Q9BVA0;O95996;P60520;Q5JR59;Q8WVK7;P04156;P06746;Q7Z460;Q92597;P04406;Q9NXR1;Q9UPY8;O75381;Q9UBK9;Q96ED9;Q9GZM8;Q96N16;P54274;Q8IYX8;Q96RT7;P41208}
- 1439 Pathogen[ P14079] interacts with 66 human  
partners: {Q15691;P54274;P08151;O95166;Q9UPY8;Q08AD1;Q9UJC3;Q7Z460;Q86VS8;P49354;P02511;P04156;Q96ED9;Q66K74;Q02241;Q99932;Q5VZ66;O15392;P42704;Q9Y3A5;Q92597;O15527;Q9H9H5;Q9BXS6;Q96N16;P50570;P56715;P36405;P60520;Q96RT8;Q9BQI5;O95996;Q12798;Q15555;Q96AA8;Q8WVK7;O94811;Q9UBK9;Q969S2;Q96RT7;Q9GZM8;Q5T5Y3;Q96JE9;Q6PGN9;P41208;P06746;P78406;Q9P1Y5;O75381;O15182;Q5JR59;P49754;O14576;Q86XR8;Q9NXR1;Q9UH99;Q96BD8;Q9BVA0;Q8IYX8;Q9H902;Q96SN8;Q9P219;Q6P597;P30622;P10636;P04406}
- 1440 Pathogen[ P03383] interacts with 36 human  
partners: {Q86XR8;Q5JR59;Q7Z460;P06746;Q96BD8;Q02241;Q15691;P04156;O15527;Q9BXS6;Q96SN8;P78406;O94811;P41208;P02511;Q9UH99;Q12798;P49754;Q92597;Q6PGN9;Q96N16;Q9H9H5;Q9P1Y5;O75381;Q9BQI5;P04406;Q8WVK7;Q86VS8;Q96ED9;Q9Y3A5;Q5T5Y3;Q08AD1;P42704;Q9UBK9;Q9UPY8;P54274}
- 1441 Pathogen[ P03410] interacts with 66 human  
partners: {Q7Z460;O15392;P49354;Q5JR59;Q9P219;Q9UJC3;Q08AD1;P30622;Q9H902;Q9NXR1;Q9GZM8;A6NC98;P54274;Q9P1Y5;Q9UH99;P60520;Q96SN8;O94811;P36405;O15182;P78406;P06746;Q12798;P50570;Q96N16;Q86VS8;Q9UBK9;O75381;Q96JE9;Q9BXS6;Q6P597;Q8IYX8;O95166;Q5T5Y3;O14576;Q9H9H5;Q96AA8;Q5VZ66;Q15555;Q15691;O95996;Q96ED9;O15527;P02511;P42704;Q8WVK7;P04156;Q9UPY8;P49754;Q66K74;P04406;Q9BQI5;P10636;Q96RT8;Q99932;Q969S2;P33176;Q92597;Q6PGN9;Q96BD8;Q96RT7;Q9Y3A5;P41208;P56715;Q9BVA0;Q02241}
- 1442 Pathogen[ P14075] interacts with 39 human  
partners: {Q9BQI5;P42704;O94811;Q99932;Q02241;Q96N16;Q8WVK7;P78406;Q96JE9;Q7Z460;O15527;P06746;P04156;Q9BXS6;Q96SN8;Q12798;Q96BD8;Q5JR59;O75381;Q96AA8;P54274;Q9UPY8;P04406;Q9H9H5;P49754;Q86XR8;Q9UBK9;Q15691;Q5T5Y3;P02511;P41208;Q6PGN9;Q9UH99;Q92597;Q86VS8;Q9P1Y5;Q96ED9;Q08AD1;Q9Y3A5}
- 1443 Pathogen[ P0C206] interacts with 66 human  
partners: {Q92597;O15182;Q86XR8;Q9BVA0;Q96SN8;P56715;O14576;Q9UBP0;P04156;O15527;Q96RT7;Q08AD1;O75381;Q9UH99;Q96JE9;P49754;Q15691;O94811;Q5T5Y3;Q96AA8;P06746;Q6P597;Q5JR59;Q6PGN9;P30622;O95996;P10636;P49354;Q02241;Q9GZM8;Q96N16;Q66K74;Q86VS8;Q96ED9;Q9P1Y5;P54274;Q96BD8;Q9UPY8;Q8IYX8;Q9P219;P04406;Q9BQI5;O15392;P60520;P36405;Q969S2;Q9Y3A5;P41208;P78406;P42704;Q9NXR1;Q9UBK9;Q15555;Q99932;Q12798;Q9UJC3;Q9BXS6;P02511;Q7Z460;P08151;Q5VZ66;Q9H902;O95166;Q8WVK7;P50570;Q9H9H5}
- 1444 Pathogen[ P03363] interacts with 61 human  
partners: {P49754;Q86VS8;Q9UDT6;Q9H902;O15527;P56715;Q96ED9;O95996;Q66K74;P33176;O94811;P08151;Q96BD8;Q15691;Q92597;P50570;P42704;Q9Y3A5;P49354;Q02241;A6NC98;Q8WVK7;Q9BXS6;Q8NHY3;P04156;P41208;Q9UBK9;P60520;Q5JR59;Q6PGN9;P30622;Q9UPY8;Q12798;Q9P1Y5;P54274;P06746;Q96RT8;O75381;P04406;Q7Z460;O15182;Q96RT7;Q8IYX8;P78406;Q86XR8;Q9NXR1;Q9BQI5;Q9P219;Q96N16;Q969S2;O95166;O14576;Q15555;Q96JE9;Q9UH99;Q96AA8;Q96SN8;Q08AD1;Q9H9H5;Q5T5Y3;Q9UJC3}
- 1445 [Cluster 132]GO:0016616+F molecular\_function [name] oxidoreductase activity, acting on the CH-OH group of donors, NAD or NADP as acceptor [def] "Catalysis of an oxidation-reduction (redox) reaction in which a CH-OH group acts as a hydrogen or electron donor and reduces NAD+ or NADP." [GOC
- 1446 Pathogen[ Q2Q067] interacts with 8 human  
partners: {P07195;P40925;Q13363;Q9BYZ2;P40926;P00338;Q16836;P07864}
- 1447 Pathogen[ P0C214] interacts with 22 human  
partners: {Q9GZZ9;Q8IX04;P52209;O75874;Q8N335;Q13363;P07864;Q5I0G3;P48735;P40939;Q6ZMR3;P40926;Q9Y2S2;Q8TBF2;P50213;O43837;Q9BYZ2;P48163;Q16798;P07195;P51553;P21695}
- 1448 Pathogen[ P03346] interacts with 8 human  
partners: {Q16836;P40926;P00338;P07195;Q13363;P56545;P40925;Q9BYZ2}
- 1449 Pathogen[ Q85601] interacts with 9 human  
partners: {Q6ZMR3;Q13363;P07864;Q9BYZ2;P40925;P07195;Q16836;P00338;P40926}
- 1450 Pathogen[ P14079] interacts with 10 human  
partners: {P00338;P52209;P07195;Q6ZMR3;P07864;Q8TBF2;P21695;P40925;Q9BYZ2;Q16836}
- 1451 Pathogen[ P03383] interacts with 9 human  
partners: {P40926;P00338;Q9BYZ2;P07864;Q16836;P40925;P07195;Q6ZMR3;Q13363}
- 1452 Pathogen[ P03410] interacts with 11 human  
partners: {Q9BYZ2;Q6ZMR3;P07195;P52209;P00338;Q16836;P40926;P07864;P40925;Q8TBF2;P21695}
- 1453 Pathogen[ P14075] interacts with 8 human  
partners: {P40925;P40926;P07195;Q16836;P07864;P00338;Q9BYZ2;Q13363}
- 1454 Pathogen[ P0C206] interacts with 11 human  
partners: {P07195;Q6ZMR3;P07864;P50213;Q16836;Q8TBF2;P40925;P40926;Q9BYZ2;Q13363;P00338}
- 1455 Pathogen[ P03363] interacts with 5 human  
partners: {Q16836;P40925;P56545;Q9BYZ2;Q13363}
- 1456 [Cluster 133]GO:0004828+F molecular\_function [name] serine-tRNA ligase activity [def]

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"Catalysis of the reaction
1457 Pathogen[ Q2Q067] interacts with 2 human partners:{P49591;P12270}
1458 Pathogen[ P0C214] interacts with 3 human partners:{Q9NP81;P49591;P12270}
1459 Pathogen[ P03346] interacts with 1 human partners:{P12270}
1460 Pathogen[ Q85601] interacts with 1 human partners:{P12270}
1461 Pathogen[ P14079] interacts with 3 human partners:{Q9NP81;P49591;P12270}
1462 Pathogen[ P03383] interacts with 3 human partners:{P12270;Q9NP81;P49591}
1463 Pathogen[ P03410] interacts with 3 human partners:{P49591;P12270;Q9NP81}
1464 Pathogen[ P14075] interacts with 3 human partners:{P12270;Q9NP81;P49591}
1465 Pathogen[ P0C206] interacts with 3 human partners:{Q9NP81;P49591;P12270}
1466 Pathogen[ P03363] interacts with 2 human partners:{P12270;P49591}
1467 [Cluster 134]GO:0004853+F molecular_function [name] uroporphyrinogen decarboxylase
activity [def] "Catalysis of the reaction
1468 Pathogen[ Q2Q067] interacts with 1 human partners:{P06132}
1469 Pathogen[ P0C214] interacts with 1 human partners:{P06132}
1470 Pathogen[ P03346] interacts with 1 human partners:{P06132}
1471 Pathogen[ Q85601] interacts with 1 human partners:{P06132}
1472 Pathogen[ P14079] interacts with 1 human partners:{P06132}
1473 Pathogen[ P03383] interacts with 1 human partners:{P06132}
1474 Pathogen[ P03410] interacts with 1 human partners:{P06132}
1475 Pathogen[ P14075] interacts with 1 human partners:{P06132}
1476 Pathogen[ P0C206] interacts with 1 human partners:{P06132}
1477 Pathogen[ P03363] interacts with 1 human partners:{P06132}
1478 [Cluster 135]GO:0003956+F molecular_function [name] NAD(P)+-protein-arginine
ADP-ribosyltransferase activity [def] "Catalysis of the reaction
1479 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8N6T7}
1480 Pathogen[ P0C214] interacts with 1 human partners:{Q8N6T7}
1481 Pathogen[ P03346] interacts with 1 human partners:{Q8N6T7}
1482 Pathogen[ Q85601] interacts with 1 human partners:{Q8N6T7}
1483 Pathogen[ P14079] interacts with 1 human partners:{Q8N6T7}
1484 Pathogen[ P03383] interacts with 1 human partners:{Q8N6T7}
1485 Pathogen[ P03410] interacts with 1 human partners:{Q8N6T7}
1486 Pathogen[ P14075] interacts with 1 human partners:{Q8N6T7}
1487 Pathogen[ P0C206] interacts with 1 human partners:{Q8N6T7}
1488 Pathogen[ P03363] interacts with 1 human partners:{Q8N6T7}
1489 [Cluster 136]GO:0050827+F molecular_function [name] toxin receptor binding [def]
"Interacting selectively and non-covalently with a toxin receptor, a receptor for
substances that cause injury to living organisms." [GOC
1490 Pathogen[ Q2Q067] interacts with 1 human partners:{P54259}
1491 Pathogen[ P0C214] interacts with 1 human partners:{P54259}
1492 Pathogen[ P03346] interacts with 1 human partners:{P54259}
1493 Pathogen[ Q85601] interacts with 1 human partners:{P54259}
1494 Pathogen[ P14079] interacts with 1 human partners:{P54259}
1495 Pathogen[ P03383] interacts with 1 human partners:{P54259}
1496 Pathogen[ P03410] interacts with 1 human partners:{P54259}
1497 Pathogen[ P14075] interacts with 1 human partners:{P54259}
1498 Pathogen[ P0C206] interacts with 1 human partners:{P54259}
1499 Pathogen[ P03363] interacts with 1 human partners:{P54259}
1500 [Cluster 137]GO:0002162+F molecular_function [name] dystroglycan binding [def]
"Interacting selectively and non-covalently with dystroglycan. Dystroglycan is
glycoprotein found in non-muscle tissues as well as in muscle tissues, often in
association with dystrophin. The native dystroglycan cleaved into two non-covalently
associated subunits, alpha (N-terminal) and beta (C-terminal)." [GOC
1501 Pathogen[ Q2Q067] interacts with 1 human partners:{P11532}
1502 Pathogen[ P0C214] interacts with 1 human partners:{P11532}
1503 Pathogen[ P03346] interacts with 2 human partners:{P11137;P11532}
1504 Pathogen[ Q85601] interacts with 1 human partners:{P11532}
1505 Pathogen[ P14079] interacts with 3 human partners:{P11532;Q8TD06;P11137}
1506 Pathogen[ P03383] interacts with 1 human partners:{P11532}
1507 Pathogen[ P03410] interacts with 4 human partners:{P11137;P11532;O95994;Q8TD06}
1508 Pathogen[ P14075] interacts with 1 human partners:{P11532}
1509 Pathogen[ P0C206] interacts with 3 human partners:{Q8TD06;P11137;P11532}
1510 Pathogen[ P03363] interacts with 3 human partners:{P11137;Q8TD06;P11532}
1511 [Cluster 138]GO:0005246+F molecular_function [name] calcium channel regulator activity
[def] "Modulates the activity of a calcium channel." [GOC
1512 Pathogen[ Q2Q067] interacts with 2 human partners:{P26678;P62879}
1513 Pathogen[ P0C214] interacts with 2 human partners:{P62879;P26678}
1514 Pathogen[ P03346] interacts with 2 human partners:{P26678;P62879}
1515 Pathogen[ Q85601] interacts with 1 human partners:{P62879}
1516 Pathogen[ P14079] interacts with 1 human partners:{P26678}
1517 Pathogen[ P03383] interacts with 2 human partners:{P62879;P26678}
1518 Pathogen[ P03410] interacts with 2 human partners:{P26678;P62879}
1519 Pathogen[ P14075] interacts with 2 human partners:{P62879;P26678}
1520 Pathogen[ P0C206] interacts with 2 human partners:{P62879;P26678}
1521 Pathogen[ P03363] interacts with 1 human partners:{P62879}
1522 [Cluster 139]GO:0005133+F molecular_function [name] interferon-gamma receptor binding

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[def] "Interacting selectively and non-covalently with the interferon-gamma receptor."
[GOC
1523 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96EY1}
1524 Pathogen[ P0C214] interacts with 1 human partners:{Q96EY1}
1525 Pathogen[ P03346] interacts with 1 human partners:{Q96EY1}
1526 Pathogen[ Q85601] interacts with 1 human partners:{Q96EY1}
1527 Pathogen[ P14079] interacts with 1 human partners:{Q96EY1}
1528 Pathogen[ P03383] interacts with 1 human partners:{Q96EY1}
1529 Pathogen[ P03410] interacts with 1 human partners:{Q96EY1}
1530 Pathogen[ P14075] interacts with 1 human partners:{Q96EY1}
1531 Pathogen[ P0C206] interacts with 1 human partners:{Q96EY1}
1532 Pathogen[ P03363] interacts with 1 human partners:{Q96EY1}
1533 [Cluster 140]GO:0070491+F molecular_function [name] repressing transcription factor
binding [def] "Interacting selectively and non-covalently with a transcription repressor,
any protein whose activity is required to prevent or downregulate transcription." [GOC
1534 Pathogen[ Q2Q067] interacts with 21 human
partners:{P56524;P20226;Q9UKV0;P01106;Q9Y3T9;Q01196;Q04206;Q9NQX1;Q04727;Q9H7S9;Q9UQL
6;P12755;O75496;P25208;Q9ULU4;Q92993;Q8WUI4;Q13363;P43356;P45973;P15923}
1535 Pathogen[ P0C214] interacts with 20 human
partners:{Q92993;Q9Y3T9;Q04727;Q13363;P25208;O75496;P56524;Q04206;P15923;Q9UKV0;P1275
5;P20226;P43356;Q9NQX1;P45973;Q9ULU4;Q8WUI4;P01106;Q9UQL6;Q9H7S9}
1536 Pathogen[ P03346] interacts with 20 human
partners:{Q9NQX1;P45973;P25208;P15923;P56524;Q04206;P20226;P01106;Q9ULU4;Q9H7S9;Q9Y3T
9;Q8WUI4;P43356;Q9UKV0;Q04727;Q13363;Q01196;Q92993;Q9UQL6;O75496}
1537 Pathogen[ Q85601] interacts with 20 human
partners:{P01106;O75496;Q9UKV0;P25208;Q9UQL6;Q9H7S9;Q13363;P12755;Q9ULU4;Q9NQX1;Q0420
6;P45973;Q04727;P15923;Q9Y3T9;P56524;P43356;Q92993;Q8WUI4;P20226}
1538 Pathogen[ P14079] interacts with 16 human
partners:{Q9UQL6;Q9NQX1;P12755;Q8WUI4;Q9UKV0;P15923;P43356;P45973;Q9Y3T9;P01106;Q9ULU
4;Q9H7S9;P56524;O75496;Q04727;Q92993}
1539 Pathogen[ P03383] interacts with 19 human
partners:{Q9UQL6;P01106;Q04727;Q9ULU4;P15923;Q92993;Q9NQX1;P25208;Q9Y3T9;P20226;P4597
3;Q9H7S9;Q9UKV0;P56524;Q04206;P43356;Q8WUI4;Q13363;O75496}
1540 Pathogen[ P03410] interacts with 19 human
partners:{Q9UKV0;Q04206;Q9ULU4;P12755;P01106;P45973;P20226;Q9Y3T9;P15923;Q8WUI4;Q9UQL
6;P25208;P56524;Q04727;O75496;Q9H7S9;Q9NQX1;Q92993;P43356}
1541 Pathogen[ P14075] interacts with 19 human
partners:{Q04727;Q04206;P25208;Q9ULU4;P56524;P45973;Q9UKV0;P20226;P15923;P01106;Q9299
3;Q9NQX1;P43356;Q9Y3T9;Q9UQL6;Q13363;Q9H7S9;Q8WUI4;O75496}
1542 Pathogen[ P0C206] interacts with 20 human
partners:{Q9NQX1;P45973;O75496;P43356;P20226;Q9UKV0;Q04727;Q92993;P12755;Q9H7S9;Q9ULU
4;Q8WUI4;Q04206;P15923;P25208;P01106;P56524;Q13363;Q9Y3T9;Q9UQL6}
1543 Pathogen[ P03363] interacts with 18 human
partners:{Q9NQX1;Q04206;Q9H7S9;P45973;Q9UQL6;P01106;Q04727;P15923;Q9ULU4;Q9UKV0;Q9Y3T
9;O75496;P20226;Q8WUI4;Q13363;P25208;P43356;Q92993}
1544 [Cluster 141]GO:0016853+F molecular_function [name] isomerase activity [def]
"Catalysis of the geometric or structural changes within one molecule. Isomerase is the
systematic name for any enzyme of EC class 5." [ISBN
1545 Pathogen[ Q2Q067] interacts with 34 human
partners:{Q9UNP9;Q13356;Q9H2H8;P49792;Q13427;Q8N0Y7;O43447;Q9Y606;P22033;P11387;P3494
9;Q9Y237;O95394;P60174;P36871;P11388;Q96G03;O60832;P18669;Q9BV20;Q15185;P15259;Q15257
;P07738;Q13526;P06744;Q9BZE2;Q08752;P23284;P49247;Q6PCE3;P62937;O43708;O95900}
1546 Pathogen[ P0C214] interacts with 49 human
partners:{Q9Y536;Q3MIT2;Q13907;P15259;Q6UX04;Q9BXS1;A2BFH1;Q13526;P30405;Q13427;P4979
2;P23284;Q15257;P30414;Q6PCE3;Q9H2H8;Q9Y237;P45877;Q9Y3C6;Q96G03;Q13011;Q96AT9;P22033
;P36871;F5H284;Q9BZE2;Q13356;O95900;P11388;Q96BP3;P11387;O60832;O43447;P34949;O95394;
Q8N0Y7;O15305;Q08752;P60174;O43708;Q8IXY8;P07738;Q9Y606;Q9UNP9;Q15185;Q96PE7;P49247;Q
9BV20;P13667}
1547 Pathogen[ P03346] interacts with 42 human
partners:{Q9Y606;Q96PE7;Q9H2H8;P49247;O43447;Q9Y3C6;Q9BV20;P11388;O95900;Q6UX04;Q9BZE
2;P62937;Q15257;Q15185;P07738;Q96BP3;P60174;O60832;Q13526;P13667;P36871;Q13427;Q6PCE3
;P18669;Q9Y237;Q08752;Q8N0Y7;Q8N0Z8;Q9UNP9;Q13356;O43708;Q8WWH5;Q96G03;O95394;P34949;
P15259;P06744;Q9Y536;A2BFH1;P11387;P49792;P23284}
1548 Pathogen[ Q85601] interacts with 43 human
partners:{F5H284;P30405;Q6UX04;P60174;P34949;A2BFH1;Q9H2H8;O43708;Q9BZE2;Q96BP3;Q9Y60
6;P18669;P06744;P49247;Q13427;P15259;Q08752;P11387;Q13526;P36871;P23284;Q9Y3C6;P11388
;P22033;Q13356;P30414;Q15185;O95394;O43447;Q6PCE3;P49792;Q8N0Y7;Q8IXY8;Q9BV20;P07738;
Q15257;Q9Y536;P62937;Q9Y237;Q13907;O60832;Q96G03;P45877}
1549 Pathogen[ P14079] interacts with 55 human
partners:{O94923;P15259;A2VDF0;P11388;Q9BXS1;O43447;Q9NPH2;Q9BZE2;O15305;Q8IXY8;Q0875
2;Q3MIT2;Q9Y237;Q13907;O60832;Q9BV20;P49247;Q96C23;P51606;O43708;P06744;Q13472;P62937
;Q13427;F5H284;P07738;O95394;Q96PZ0;Q9UL01;Q13356;P45877;Q8N0Z8;Q9H2H8;P34949;Q15185;
P22033;Q96PE7;A2BFH1;Q9H0K6;Q6PCE3;Q9Y606;P30039;P18669;Q96G03;P23284;Q6UX04;Q13526;Q
9Y536;P36871;Q969P6;O95900;Q96BP3;Q8N0Y7;Q5T013;Q8WWH5}
1550 Pathogen[ P03383] interacts with 30 human
partners:{P34949;P49792;Q96G03;Q13356;Q9UNP9;Q15257;Q96BP3;P18669;Q9H2H8;P62937;P1138
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7;P49247;Q08752;Q9BZE2;Q6PCE3;O43447;P07738;Q9Y606;P06744;Q13427;Q15185;P22033;Q8N0Y7;Q9BV20;O95394;P23284;O95900;O60832;P15259;Q13526}

1551 Pathogen[ P03410] interacts with 61 human partners:{P30039;Q9NPH2;A2VDF0;P51606;P06744;Q6PCE3;P36871;Q08752;Q96PE7;Q13011;Q13526;Q9Y536;P13667;Q96BP3;Q15257;P34949;O60832;Q9BV20;O43708;Q13356;Q9H2H8;Q13472;P62937;P07738;Q8N0Z8;P45877;P11387;Q5T013;Q15185;Q8N0Y7;P15259;Q96C23;Q9BZE2;Q8WWH5;Q6UX04;P18669;Q96G03;P11388;O15305;Q9Y606;Q9Y3C6;P23284;Q9UNP9;F5H284;Q13907;O95900;Q8IXY8;P30414;Q9H0K6;Q9UL01;Q13427;O95394;Q9Y237;O43447;Q3MIT2;P49247;P30405;A2BFH1;P22033;P49792;Q9BXS1}

1552 Pathogen[ P14075] interacts with 30 human partners:{Q8N0Z8;P11387;Q15257;Q08752;P06744;P23284;P34949;P49792;Q9Y606;Q9BV20;P18669;Q9UNP9;Q96G03;Q8WWH5;Q6PCE3;Q15185;O95900;P22033;Q13526;Q9BZE2;O60832;O43447;O95394;P62937;P15259;P49247;Q13427;P07738;Q9H2H8;Q8N0Y7}

1553 Pathogen[ P0C206] interacts with 54 human partners:{Q9Y536;Q9UNP9;Q8WWH5;Q96PE7;P60174;Q9BV20;Q13526;Q96G03;Q08752;Q96BP3;O95394;Q15185;P34949;A2BFH1;Q9UL01;F5H284;Q6PCE3;Q9BZE2;P49792;P06744;Q13907;Q9BXS1;Q9Y3C6;O43708;Q13427;Q96C23;P30039;P23284;Q8N0Y7;O95900;O60832;Q13356;O43447;Q9Y606;Q9Y237;P45877;P11388;Q9H2H8;P11387;P49247;Q8N0Z8;P07738;P30405;P22033;P62937;A2VDF0;Q13472;Q15257;P13667;P18669;Q8IXY8;P36871;P15259;Q6UX04}

1554 Pathogen[ P03363] interacts with 34 human partners:{O60832;P23284;Q9BZE2;Q13427;P62937;P06744;A2BFH1;P18669;P11387;Q6UX04;Q9Y606;Q13356;Q96BP3;Q9Y3C6;Q08752;O95900;Q13526;O43447;Q13472;Q8N0Y7;P49792;Q15185;Q9BV20;Q9Y237;Q15257;Q8N0Z8;Q9Y536;Q8WWH5;Q6PCE3;O43708;P15259;Q9H2H8;Q9UNP9;Q96G03}

1555 [Cluster 142]GO:0015450+F molecular\_function [name] P-P-bond-hydrolysis-driven protein transmembrane transporter activity [def] "Primary active carrier-mediated transport of a protein across a membrane, driven by the hydrolysis of the diphosphate bond of inorganic pyrophosphate, ATP, or another nucleoside triphosphate. The transport protein may or may not be transiently phosphorylated, but the substrate is not phosphorylated." [GOC

1556 Pathogen[ Q2Q067] interacts with 5 human partners:{Q9BRJ2;Q15388;O43615;O14925;Q9P0U1}

1557 Pathogen[ P0C214] interacts with 5 human partners:{Q15388;O14925;O43615;Q9P0U1;Q9BRJ2}

1558 Pathogen[ P03346] interacts with 5 human partners:{O14925;O43615;Q9P0U1;Q9BRJ2;Q15388}

1559 Pathogen[ Q85601] interacts with 4 human partners:{O14925;Q15388;Q9BRJ2;O43615}

1560 Pathogen[ P14079] interacts with 8 human partners:{O43615;Q9P0U1;Q9BRJ2;O14925;Q15388;P60059;Q99595;Q5SRD1}

1561 Pathogen[ P03383] interacts with 5 human partners:{Q9BRJ2;O14925;O43615;Q15388;Q9P0U1}

1562 Pathogen[ P03410] interacts with 8 human partners:{Q5SRD1;Q15388;P60059;O14925;Q99595;Q9BRJ2;O43615;Q9P0U1}

1563 Pathogen[ P14075] interacts with 5 human partners:{Q9P0U1;O14925;Q9BRJ2;Q15388;O43615}

1564 Pathogen[ P0C206] interacts with 6 human partners:{Q5SRD1;Q9BRJ2;O43615;Q9P0U1;O14925;Q15388}

1565 Pathogen[ P03363] interacts with 5 human partners:{Q15388;O14925;Q9BRJ2;O43615;Q9P0U1}

1566 [Cluster 143]GO:0000150+F molecular\_function [name] recombinase activity [def] "Catalysis of the identification and base-pairing of homologous sequences between single-stranded DNA and double-stranded DNA." [GOC

1567 Pathogen[ Q2Q067] interacts with 1 human partners:{Q06330}

1568 Pathogen[ P0C214] interacts with 1 human partners:{Q06330}

1569 Pathogen[ P03346] interacts with 1 human partners:{Q06330}

1570 Pathogen[ Q85601] interacts with 1 human partners:{Q06330}

1571 Pathogen[ P14079] interacts with 1 human partners:{Q06330}

1572 Pathogen[ P03383] interacts with 1 human partners:{Q06330}

1573 Pathogen[ P03410] interacts with 1 human partners:{Q06330}

1574 Pathogen[ P14075] interacts with 1 human partners:{Q06330}

1575 Pathogen[ P0C206] interacts with 1 human partners:{Q06330}

1576 Pathogen[ P03363] interacts with 1 human partners:{Q06330}

1577 [Cluster 144]GO:0017124+F molecular\_function [name] SH3 domain binding [def] "Interacting selectively and non-covalently with a SH3 domain (Src homology 3) of a protein, small protein modules containing approximately 50 amino acid residues found in a great variety of intracellular or membrane-associated proteins." [GOC

1578 Pathogen[ Q2Q067] interacts with 28 human partners:{Q9P2Y5;O75525;O60239;Q99638;Q96B97;O95997;Q13625;Q5VWX1;Q8TF68;Q96EY5;P56945;Q9NZQ3;O15162;Q9NZH4;Q07666;Q9UPX8;Q8N1I0;Q9NZH5;Q86TC9;Q9UJC5;O14512;Q86Y01;Q92556;P22681;O75368;Q9NR46;O75674;Q96JJ3}

1579 Pathogen[ P0C214] interacts with 32 human partners:{P22681;P55822;Q9UI08;O60239;Q9UPX8;P56945;Q13625;O15056;Q8TF68;Q9NR46;O75525;Q96EY5;Q07666;O15162;Q86TC9;Q9NZH5;Q92556;Q9P2Y5;Q9BQI5;Q8N1I0;Q9NZQ3;Q9NZH4;O95997;O14512;O75674;Q86Y01;Q99638;Q5VWX1;Q96JJ3;O75368;Q96B97;Q9UJC5}

1580 Pathogen[ P03346] interacts with 45 human partners:{Q86TC9;O60239;Q96B97;Q86UR1;Q8IZD9;Q9NZH4;Q96PU8;Q99638;Q9UI08;Q9Y5K6;Q96JJ3;O95997;Q8TF68;Q9Y371;O15056;Q07666;P56945;Q9NZH5;P55822;Q9NZQ3;P42566;Q5VWX1;Q13625;P78314;P14317;P22681;Q96D71;O75525;O14512;O75674;Q9P2Y5;Q86Y01;Q9Y2R2;Q9BQI5;Q8N1I0;

1581 Q96EY5;Q16204;P24666;Q9UPX8;Q9NR46;Q92556;O75368;Q8TDZ2;Q9UJC5;O15162}  
Pathogen[ Q85601] interacts with 30 human  
partners:{Q86TC9;O60239;Q9UPX8;P22681;Q9NZH4;Q07666;Q9Y5K6;Q9P2Y5;Q5VWX1;Q9NZQ3;Q96JJ3;P56945;Q9NZH5;Q96B97;P55822;Q13625;Q8TF68;P14317;Q16204;O15162;O75525;O14512;Q86Y01;Q9UJC5;Q8N1I0;Q96EY5;Q9NR46;Q99638;O95997;O75674}

1582 Pathogen[ P14079] interacts with 42 human  
partners:{Q9NRQ2;Q9NR46;O15162;Q96EY5;Q8TDZ2;O75368;P13498;Q92556;P42566;O43813;O75674;Q8IZD9;Q96B97;Q13625;Q96JJ3;Q9Y371;Q96BJ8;P50552;P55822;Q8TF68;Q16204;Q86TC9;O75952;O60239;Q86Y01;Q5VWX1;Q9NZQ3;Q07666;Q9BQI5;O75525;O95997;Q9Y5K6;O14512;Q99638;Q9NZH4;Q8N1I0;Q9UJC5;Q9P2Y5;Q9NZH5;P10636;Q9UI08;Q9UPX8}

1583 Pathogen[ P03383] interacts with 19 human  
partners:{P56945;O15162;Q13625;Q5VWX1;Q9NZH4;Q9NZQ3;Q9NZH5;Q9BQI5;Q07666;O75525;Q9P2Y5;Q99638;O95997;Q9NR46;O14512;Q86Y01;Q9UJC5;O75368;Q96EY5}

1584 Pathogen[ P03410] interacts with 45 human  
partners:{Q9NZH5;Q9UI08;Q8TF68;Q9P2Y5;P55822;Q9NR46;Q8IZD9;Q8TDZ2;O75674;Q9NRQ2;Q9NZQ3;O60239;O75368;Q5VWX1;O95997;Q07666;Q9NRY6;Q9Y5K6;O75952;O15162;Q92556;Q86Y01;P50552;O75525;Q99638;Q86UR1;Q96D71;Q96BJ8;Q9Y371;Q9BQI5;P10636;P24666;Q9UJC5;P56945;Q96B97;Q16204;Q9UPX8;O14512;Q96EY5;Q9NZH4;Q13625;Q8N1I0;P42566;Q96JJ3;Q86TC9}

1585 Pathogen[ P14075] interacts with 21 human  
partners:{Q9BQI5;Q5VWX1;Q9P2Y5;Q9NZQ3;O60239;Q96EY5;Q9NR46;Q07666;O15162;O95997;Q99638;P55822;Q9NZH5;O75525;Q13625;O14512;Q86Y01;O75368;Q9NZH4;P56945;Q9UJC5}

1586 Pathogen[ P0C206] interacts with 42 human  
partners:{Q86Y01;Q9NZH5;Q9NR46;O75952;Q8IZD9;Q92556;Q9P2Y5;Q86TC9;Q13625;P14317;Q96B97;O95997;Q96PU8;Q9UI08;Q07666;Q9Y2R2;P10636;Q99638;P24666;P22681;O60239;Q16204;Q96JJ3;Q9UPX8;Q9BQI5;Q9NZH4;O15162;O75368;P42566;Q8N1I0;Q9Y5K6;P56945;Q8TF68;O14512;O75525;Q8TDZ2;O75674;Q5VWX1;Q96EY5;Q9UJC5;Q9NZQ3;P55822}

1587 Pathogen[ P03363] interacts with 39 human  
partners:{P22681;Q86Y01;Q86TC9;Q9NZH5;Q07666;O75368;Q9P2Y5;Q86UR1;Q9Y2R2;Q9UPX8;Q96B97;Q9NR46;Q13625;Q9UJC5;Q96PU8;P78314;Q16204;Q9UI08;Q8N1I0;Q8IZD9;Q5VWX1;O15056;O75674;Q8TF68;Q92556;Q96EY5;P14317;Q99638;O60239;P56945;Q9NZQ3;Q96JJ3;O95997;O14512;Q9BQI5;P24666;O75525;Q9Y5K6;Q9NZH4}

1588 [Cluster 145]GO:0010484+F molecular\_function [name] H3 histone acetyltransferase  
activity [def] "Catalysis of the reaction

1589 Pathogen[ Q2Q067] interacts with 1 human partners:{Q92830}

1590 Pathogen[ P0C214] interacts with 1 human partners:{Q92830}

1591 Pathogen[ P03346] interacts with 2 human partners:{Q92830;P51587}

1592 Pathogen[ Q85601] interacts with 2 human partners:{Q92830;P51587}

1593 Pathogen[ P14079] interacts with 2 human partners:{Q92830;P51587}

1594 Pathogen[ P03383] interacts with 1 human partners:{Q92830}

1595 Pathogen[ P03410] interacts with 2 human partners:{Q92830;P51587}

1596 Pathogen[ P14075] interacts with 1 human partners:{Q92830}

1597 Pathogen[ P0C206] interacts with 2 human partners:{Q92830;P51587}

1598 Pathogen[ P03363] interacts with 1 human partners:{Q92830}

1599 [Cluster 146]GO:0051219+F molecular\_function [name] phosphoprotein binding [def]  
"Interacting selectively and non-covalently with a phosphorylated protein." [GOC

1600 Pathogen[ Q2Q067] interacts with 8 human  
partners:{P06400;P62258;O00257;Q7Z2E3;Q99933;O15405;P31946;P27986}

1601 Pathogen[ P0C214] interacts with 8 human  
partners:{P62993;Q99933;Q7Z2E3;O00257;P31946;P27986;P06400;O15405}

1602 Pathogen[ P03346] interacts with 9 human  
partners:{P06400;P62258;P62993;O00257;P31946;Q7Z2E3;O15405;P27986;Q99933}

1603 Pathogen[ Q85601] interacts with 9 human  
partners:{P31946;P62993;P06400;O15405;P27986;Q99933;P62258;Q7Z2E3;O00257}

1604 Pathogen[ P14079] interacts with 7 human  
partners:{O15405;O00257;P31946;Q99933;P62258;P62993;Q7Z2E3}

1605 Pathogen[ P03383] interacts with 8 human  
partners:{Q7Z2E3;P27986;P31946;O00257;O15405;P06400;Q99933;P62258}

1606 Pathogen[ P03410] interacts with 9 human  
partners:{Q99933;P62258;P27986;O15405;P06400;Q7Z2E3;O00257;P62993;P31946}

1607 Pathogen[ P14075] interacts with 8 human  
partners:{Q7Z2E3;Q99933;O00257;P27986;O15405;P06400;P31946;P62258}

1608 Pathogen[ P0C206] interacts with 9 human  
partners:{Q99933;P27986;P62993;O15405;P31946;P62258;O00257;Q7Z2E3;P06400}

1609 Pathogen[ P03363] interacts with 9 human  
partners:{P62258;P36575;P31946;P06400;Q7Z2E3;O15405;O00257;P27986;Q99933}

1610 [Cluster 147]GO:0004843+F molecular\_function [name] ubiquitin-specific protease  
activity [def] "Catalysis of the hydrolysis of various forms of polymeric ubiquitin  
sequences." [ISBN

1611 Pathogen[ Q2Q067] interacts with 6 human  
partners:{Q9Y5K5;P54252;Q92890;Q93009;Q15025;Q86T82}

1612 Pathogen[ P0C214] interacts with 7 human  
partners:{Q92560;Q9Y5K5;Q15025;Q93009;Q92890;Q9H3M9;P54252}

1613 Pathogen[ P03346] interacts with 15 human  
partners:{Q93009;Q92560;Q9H3M9;O95630;Q86T82;Q9UHP3;Q14694;P51784;Q15025;Q96FW1;O94782;Q92890;Q9Y5K5;Q9H0E7;P54252}

1614 Pathogen[ Q85601] interacts with 12 human

partners:{Q9Y5T5;Q9H0E7;Q93009;Q92560;Q9H3M9;P54252;Q9NQC7;Q15025;Q9Y5K5;O95630;Q86T82;Q92890}

1615 Pathogen[ P14079] interacts with 8 human

partners:{Q9H3M9;P54252;Q15025;Q92890;Q9Y5K5;Q92560;Q9NQC7;Q96FW1}

1616 Pathogen[ P03383] interacts with 5 human

partners:{P54252;Q15025;Q9Y5K5;Q9H3M9;Q92890}

1617 Pathogen[ P03410] interacts with 6 human

partners:{Q96FW1;Q9H3M9;P54252;Q15025;Q9Y5K5;Q92890}

1618 Pathogen[ P14075] interacts with 6 human

partners:{Q92890;Q96FW1;P54252;Q15025;Q9H3M9;Q9Y5K5}

1619 Pathogen[ P0C206] interacts with 14 human

partners:{Q9NQC7;Q92890;Q9Y5T5;O95630;Q93009;P54252;Q9H0E7;Q9Y5K5;Q15025;Q9H3M9;Q96FW1;Q86T82;Q9UHP3;Q92560}

1620 Pathogen[ P03363] interacts with 9 human

partners:{Q9Y5K5;P51784;Q9UHP3;P54252;Q92890;Q92560;Q86T82;Q15025;Q96FW1}

1621 [Cluster 148]GO:0046974+F molecular\_function [name] histone methyltransferase activity (H3-K9 specific) [def] "Catalysis of the reaction

1622 Pathogen[ Q2Q067] interacts with 2 human partners:{O43463;Q9H5I1}

1623 Pathogen[ P0C214] interacts with 2 human partners:{Q9H5I1;O43463}

1624 Pathogen[ P03346] interacts with 2 human partners:{O43463;Q9H5I1}

1625 Pathogen[ Q85601] interacts with 2 human partners:{Q9H5I1;O43463}

1626 Pathogen[ P14079] interacts with 1 human partners:{Q9H5I1}

1627 Pathogen[ P03383] interacts with 2 human partners:{O43463;Q9H5I1}

1628 Pathogen[ P03410] interacts with 2 human partners:{Q9H5I1;O43463}

1629 Pathogen[ P14075] interacts with 2 human partners:{Q9H5I1;O43463}

1630 Pathogen[ P0C206] interacts with 2 human partners:{O43463;Q9H5I1}

1631 Pathogen[ P03363] interacts with 2 human partners:{Q9H5I1;O43463}

1632 [Cluster 149]GO:0019904+F molecular\_function [name] protein domain specific binding [def] "Interacting selectively and non-covalently with a specific domain of a protein." [GOC

1633 Pathogen[ Q2Q067] interacts with 78 human

partners:{Q14974;P46108;Q16236;Q7LBR1;Q13185;P10827;P63104;Q9H7N4;P52272;P21980;P62258;O14503;O95886;Q9NSC5;Q9UBB5;P54259;Q9P0M2;Q8N137;P61981;P50502;Q93074;Q9P1A6;Q9HC77;Q9NY61;Q9Y6J0;P09086;O95359;Q9Y2D8;P58340;Q08050;O14980;Q07157;Q14186;Q05084;P67870;P51959;P12755;Q9UNN5;Q14978;Q92796;O14641;O75528;Q9Y6K9;Q9HD42;P42575;Q16254;Q9UQN3;P41212;Q9UN37;Q8WVJ9;O60907;P16333;Q13363;Q15466;P12757;Q04917;Q9HC62;P27348;P31946;O75410;Q9C000;P11474;P80723;Q9NRX2;O43633;O14964;P27986;Q14188;P23497;P14653;Q9UMX0;Q99459;Q92665;P49715;Q9NUP9;O14490;O60716;P23025}

1634 Pathogen[ P0C214] interacts with 77 human

partners:{O14490;Q16254;P11474;O75528;Q9Y6K9;Q13363;P12757;P62993;O60716;Q04917;P27348;Q92796;P23025;P51959;O60907;Q9Y2D8;Q93074;Q9HD42;Q9P0M2;Q9HC77;O14964;Q9P1A6;Q9NSC5;Q9UQN3;Q9NY61;Q8NDH6;O95359;O14503;Q92665;P52272;Q7LBR1;Q14186;O14980;Q14978;Q99459;Q9UNN5;O14641;Q9Y2H0;P14653;Q13185;O95886;P19429;P12755;Q9NRX2;P16333;P23497;Q8WVJ9;O75410;P58340;P61981;P09086;P21980;Q9HC62;P80723;Q14974;Q05084;Q9UN37;Q9UBB5;P67870;O43633;P46108;P31946;Q07157;Q9H7N4;P27986;Q9UMX0;Q14188;P42575;Q15466;Q9Y6J0;P50502;P54259;P55072;Q16236;Q9C000;P41212;Q8N137}

1635 Pathogen[ P03346] interacts with 91 human

partners:{Q9NSC5;P21980;Q9Y6K9;O14490;Q9P0M2;P09086;P10827;O60907;P12757;O60716;P50502;Q02535;Q9HD42;Q9Y2D8;Q14188;O75410;Q8N137;P07992;Q15466;P42575;P62258;P80723;O95359;Q9HC77;Q93074;O43815;P27348;Q08050;Q9UMX0;P62993;P58340;Q16254;Q05084;P14653;P55072;P49715;Q04917;O14503;Q92796;Q16236;P51843;P16333;Q14186;O14980;Q14978;P20340;Q8N3R9;Q9UNN5;Q9Y2H0;Q9NRX2;Q9NUP9;O14641;O75528;O43633;Q9Y6J0;Q8WVJ9;Q5T2T1;Q9NY61;O95886;Q07157;P46108;Q9UQN3;Q99459;Q9HAP6;P61981;P52272;P31946;P63104;Q9HC62;P11474;Q13363;P23025;O14964;P41212;P23497;P51959;P67870;Q7LBR1;Q9H7N4;O75593;Q9UBB5;P53367;Q13185;Q9NRD5;P54259;P27986;Q9P1A6;Q9UN37;Q92665;Q9C000;Q14974}

1636 Pathogen[ Q85601] interacts with 77 human

partners:{P54259;O14490;P61981;Q14978;Q8N137;P63104;P31946;O75528;P23025;Q16236;P62993;Q9NUP9;Q9UQN3;P09086;Q15466;Q9NY61;O60907;P14653;Q92665;Q9Y6J0;P16333;Q9HC62;Q9P1A6;P12757;Q9HC77;O43815;Q14188;O14503;P46108;O43633;Q13363;Q7LBR1;P51959;P80723;Q04917;P12755;Q14974;P27986;P41212;O60716;Q14186;Q9Y6K9;Q9NRX2;Q9UNN5;O14641;P58340;Q9Y2D8;P62258;P42575;P27348;P21980;Q99459;Q13185;Q16254;Q9H7N4;Q92796;P11474;O14964;P10827;O14980;Q07157;Q9P0M2;P49715;Q9NSC5;Q08050;P67870;P50502;O95886;Q9UN37;Q93074;Q9UBB5;Q9HD42;O75410;Q05084;Q9UMX0;Q8WVJ9;O95359}

1637 Pathogen[ P14079] interacts with 86 human

partners:{Q8NDH6;P51959;Q99459;P12755;Q05084;P19429;Q14186;O75528;O95359;Q9Y6A5;Q9NY61;P09086;Q16254;O14641;Q9UMX0;Q9P0M2;Q07157;Q9UBB5;Q5T2T1;P24588;Q9C000;P11474;O43815;P21980;O60907;Q9NRX2;Q7LBR1;Q8WVJ9;Q9HD42;Q96K83;Q04917;Q96BJ3;P10827;P23025;P23497;Q9Y2H0;P63104;Q9NUP9;P61981;O75952;Q13185;Q9HC62;Q9H7N4;Q9UNN5;O43633;P31946;P49715;Q9Y6K9;Q9NZ72;P16333;Q14974;Q92665;P27348;Q9HAP6;Q9NSC5;P62258;Q8N3R9;Q16236;Q9UN37;P41212;P62993;O75410;P54259;P67870;O95886;Q8N137;P12757;Q9P1A6;P80723;P42575;Q93074;O14503;Q92796;Q15466;Q9Y2D8;Q9HC77;Q14188;O60716;P50502;P07992;O14490;P46108;Q9UQN3;P58340;Q14978;Q9Y6J0}

1638 Pathogen[ P03383] interacts with 65 human

partners:{O60716;P27986;Q14978;Q9NY61;Q9P1A6;O75528;Q9Y6K9;Q8WVJ9;P58340;P50502;P31946;O60907;O75410;O95886;Q9HC77;O14490;O14503;Q99459;Q9H7N4;Q92665;Q93074;Q9NRX2;Q9UBB5;Q07157;Q05084;P11474;Q14186;Q13185;Q7LBR1;P63104;Q9UNN5;O43633;O14641;O14980;P51959;

1639 P23025;Q9UMX0;Q15466;Q16254;Q14974;Q9HD42;P41212;Q16236;Q9NSC5;P67870;P23497;Q14188;P61981;Q9HC62;Q8N137;P80723;P12757;P21980;Q92796;Q96BJ3;Q9Y2D8;P16333;O14964;P62258;Q9UN37;Q9Y2H0;Q13363;Q9UQN3;P54259;P27348}  
 Pathogen[ P03410] interacts with 85 human  
 partners: {Q9P1A6;P62258;P23025;P27986;Q9Y6J0;Q9UNN5;O95359;Q14974;O43633;Q8WVJ9;P50502;P12755;Q9HC77;P07992;P19429;Q04917;P41212;P42575;O75528;P27348;Q16254;P53367;Q16236;Q14978;Q92665;O60716;Q9Y2H0;Q9NY61;Q9UBB5;Q8NDH6;Q9NUP9;P16333;Q8N137;Q9C000;Q9NSC5;Q9Y6A5;O14490;Q14188;Q05084;Q96BJ3;Q9HAP6;Q9H7N4;P58340;O75952;P61981;Q5T2T1;Q9UMX0;Q9POM2;Q9NRD5;Q9UQN3;Q9HC62;Q99459;Q9NRX2;P51959;Q07157;Q9HD42;Q9UN37;Q96K83;Q92796;Q14186;P52272;Q15466;P12757;O75410;Q13185;P63104;P11474;P46108;P54259;Q9NZ72;O95886;O43815;P80723;P21980;Q93074;Q9Y6K9;P67870;P62993;O60907;Q7LBR1;P24588;Q8N3R9;P31946;O14980;O14641}

1640 Pathogen[ P14075] interacts with 65 human  
 partners: {Q9NRX2;P23497;P23025;P11474;O75410;Q07157;P51959;Q7LBR1;P80723;P41212;Q9NY61;O95886;Q9Y2D8;Q08050;Q9HC77;Q9H7N4;Q9UBB5;P61981;Q8WVJ9;O14503;Q99459;Q96BJ3;P12757;P16333;Q93074;Q14186;O14980;O14964;Q9UNN5;O14641;O75528;Q16254;Q92665;Q13185;Q9NSC5;Q9UQN3;Q9HC62;P50502;P67870;P27986;Q8N137;O14490;O60907;P63104;Q92796;P27348;Q05084;Q9P1A6;Q9HD42;Q15466;P54259;Q9Y2H0;P31946;Q9Y6K9;Q13363;Q14974;P21980;Q16236;O60716;Q14188;Q14978;Q9UN37;Q9UMX0;P62258;P58340}

1641 Pathogen[ P0C206] interacts with 88 human  
 partners: {Q9UNN5;Q9C000;O14964;O60716;Q8N137;Q14188;Q9NUP9;P58340;O75528;O75952;Q9UN37;O95359;Q15466;Q7LBR1;Q9HC77;Q9Y6K9;Q9UBB5;O43815;O60907;P41212;Q9UMX0;Q9H7N4;Q92665;P21980;Q14974;Q9HC62;P19429;Q9UQN3;O95886;Q14186;P49715;Q9NRX2;Q04917;P27348;Q8WVJ9;P27986;P62993;Q16254;Q9Y2D8;P07992;P12755;P31946;P14653;P54259;O75410;Q8N3R9;Q9Y2H0;P63104;P50502;Q5T2T1;O14490;Q9Y6J0;P09086;Q9NSC5;P62258;P12757;P51959;P80723;Q9POM2;Q9Y6A5;Q96BJ3;Q9NZ72;P61981;P67870;O43633;P55072;Q99459;P16333;Q08050;Q07157;Q8NDH6;Q13185;Q16236;P42575;Q9HD42;P11474;P46108;Q92796;Q96K83;Q13363;Q9NY61;Q9NRD5;Q93074;P23025;Q05084;Q9P1A6;P10827;Q14978}

1642 Pathogen[ P03363] interacts with 78 human  
 partners: {Q16236;Q9UNN5;O75410;Q14978;Q9Y6J0;P62258;P27348;P36575;Q15466;Q9HC77;Q9C000;P50502;P54259;P58340;P12757;O14980;P09086;P31946;O60907;Q9UMX0;Q16254;P11474;P23025;Q9Y6K9;Q9Y2D8;Q5T2T1;P23497;Q13185;Q07157;Q9POM2;P14653;P52272;P63104;Q08050;Q9NSC5;Q9NY61;Q9UN37;Q9H7N4;Q9NRX2;Q9UPN6;P16333;Q9HC62;O43815;Q8N3R9;Q05084;Q7LBR1;Q14974;P46108;O14964;Q93074;Q92665;P51959;Q14186;P61981;Q14188;P80723;O95359;O95886;P67870;Q04917;Q9P1A6;Q9UQN3;O14490;Q13363;Q92796;Q9NUP9;O14641;P41212;P19429;Q99459;O60716;P27986;Q8WVJ9;O14503;O75528;Q9HD42;Q9UBB5;Q8N137}

1643 [Cluster 150]GO:0001618+F molecular\_function [name] viral receptor activity [def]  
 "Combining with a virus component and mediating entry of the virus into the cell." [GOC]

1644 Pathogen[ Q2Q067] interacts with 1 human partners: {O15304}

1645 Pathogen[ P0C214] interacts with 1 human partners: {O15304}

1646 Pathogen[ P03346] interacts with 1 human partners: {O15304}

1647 Pathogen[ Q85601] interacts with 1 human partners: {O15304}

1648 Pathogen[ P14079] interacts with 1 human partners: {O15304}

1649 Pathogen[ P03383] interacts with 1 human partners: {O15304}

1650 Pathogen[ P03410] interacts with 1 human partners: {O15304}

1651 Pathogen[ P14075] interacts with 1 human partners: {O15304}

1652 Pathogen[ P0C206] interacts with 1 human partners: {O15304}

1653 Pathogen[ P03363] interacts with 1 human partners: {O15304}

1654 [Cluster 151]GO:0003810+F molecular\_function [name] protein-glutamine  
 gamma-glutamyltransferase activity [def] "Catalysis of the reaction

1655 Pathogen[ Q2Q067] interacts with 1 human partners: {P21980}

1656 Pathogen[ P0C214] interacts with 2 human partners: {P22735;P21980}

1657 Pathogen[ P03346] interacts with 3 human partners: {P21980;P16452;P22735}

1658 Pathogen[ Q85601] interacts with 1 human partners: {P21980}

1659 Pathogen[ P14079] interacts with 3 human partners: {P16452;P22735;P21980}

1660 Pathogen[ P03383] interacts with 1 human partners: {P21980}

1661 Pathogen[ P03410] interacts with 3 human partners: {P16452;P21980;P22735}

1662 Pathogen[ P14075] interacts with 1 human partners: {P21980}

1663 Pathogen[ P0C206] interacts with 3 human partners: {P21980;P16452;P22735}

1664 Pathogen[ P03363] interacts with 1 human partners: {P16452}

1665 [Cluster 152]GO:0004872+F molecular\_function [name] receptor activity [def]  
 "Combining with an extracellular or intracellular messenger to initiate a change in cell activity." [GOC]

1666 Pathogen[ Q2Q067] interacts with 18 human  
 partners: {Q93034;Q96HR3;Q9NPJ6;P13056;P49116;Q93074;O75448;O60244;Q9Y5L0;Q15629;P04264;Q9UHV7;Q9NVC6;Q9Y2X0;Q9BQE4;Q9Y2W1;P23508;P41214}

1667 Pathogen[ P0C214] interacts with 20 human  
 partners: {Q9Y5L0;Q9NZT2;P04264;Q9Y2X0;Q93074;Q96HR3;Q9NVC6;Q93034;O60244;P13056;P49116;Q08AM6;Q9UHV7;O75448;Q15629;P23508;Q9BQE4;Q9Y2W1;Q9NPJ6;P41214}

1668 Pathogen[ P03346] interacts with 19 human  
 partners: {Q9NPJ6;P23508;P49116;Q96HR3;Q15629;Q93074;P13056;O60244;Q93034;O75448;Q9BUN8;Q9NZT2;Q9NVC6;Q9Y5L0;Q9Y2X0;P04264;P41214;Q9Y2W1;Q9UHV7}

1669 Pathogen[ Q85601] interacts with 19 human  
 partners: {Q9Y2X0;Q08AM6;Q15629;P23508;Q9UHV7;O75448;P04264;P49116;P13056;P41214;Q9Y2W1;Q9Y5L0;O60244;Q96HR3;Q93074;Q9NPJ6;Q9NVC6;Q93034;Q9BQE4}

1670 Pathogen[ P14079] interacts with 24 human

partners:{Q5TC84;Q15629;O60244;P13056;Q9Y2X0;Q9BQE4;Q96HR3;Q9NVC6;Q99442;Q9BUN8;O75448;Q9UHV7;O75787;P23508;Q93034;Q9NZT2;O14836;Q9NPJ6;P04264;Q93074;P49116;P41214;Q9Y5L0;Q9Y2W1}

1671 Pathogen[ P03383] interacts with 19 human partners:{P49116;O60244;Q93034;Q9BUN8;Q9NPJ6;Q93074;Q96HR3;O75448;Q15629;Q9BQE4;P41214;P04264;P23508;Q9UHV7;Q9NVC6;Q9Y2W1;Q9Y5L0;P13056;Q9Y2X0}

1672 Pathogen[ P03410] interacts with 27 human partners:{Q9Y2W1;Q99442;O75787;O60896;P04264;Q9NVC6;Q9NPJ6;Q9BQE4;P41214;P23508;Q9Y5L0;Q08AM6;Q9BUN8;O14836;Q15629;Q9NZT2;Q96HR3;O60244;Q9UHV7;Q9BZR6;P49116;Q9Y2X0;Q93074;Q93034;O75448;Q5TC84;P13056}

1673 Pathogen[ P14075] interacts with 19 human partners:{Q9BQE4;Q9NPJ6;Q93034;Q96HR3;O75448;Q15629;P13056;Q93074;P49116;Q9UHV7;P04264;P41214;Q9BUN8;O60244;P23508;Q9NVC6;Q9Y5L0;Q9Y2W1;Q9Y2X0}

1674 Pathogen[ P0C206] interacts with 23 human partners:{Q9Y5L0;Q96HR3;Q9NZT2;Q5TC84;O75787;P04264;P13056;P49116;Q9UHV7;Q9BQE4;Q9NPJ6;Q9BUN8;Q9Y2W1;O60244;Q15629;Q9NVC6;O75448;P41214;Q93034;Q9Y2X0;Q93074;P23508;Q08AM6}

1675 Pathogen[ P03363] interacts with 15 human partners:{P49116;Q96HR3;P23508;Q9NVC6;Q9UHV7;Q9Y5L0;Q93074;O75448;P41214;Q9NPJ6;O60244;Q93034;Q9NZT2;P04264;P13056}

1676 [Cluster 153]GO:0008603+F molecular\_function [name] cAMP-dependent protein kinase regulator activity [def] "Modulation of the activity of the enzyme cAMP-dependent protein kinase." [GOC]

1677 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96C74}

1678 Pathogen[ P0C214] interacts with 1 human partners:{Q96C74}

1679 Pathogen[ P03346] interacts with 1 human partners:{Q96C74}

1680 Pathogen[ Q85601] interacts with 1 human partners:{Q96C74}

1681 Pathogen[ P14079] interacts with 5 human partners:{Q49A92;O75952;A6NNX1;Q9BZX4;Q96C74}

1682 Pathogen[ P03383] interacts with 1 human partners:{Q96C74}

1683 Pathogen[ P03410] interacts with 5 human partners:{A6NNX1;Q9BZX4;O75952;Q9HAT0;Q49A92}

1684 Pathogen[ P14075] interacts with 1 human partners:{Q96C74}

1685 Pathogen[ P0C206] interacts with 2 human partners:{O75952;Q96C74}

1686 Pathogen[ P03363] interacts with 1 human partners:{Q96C74}

1687 [Cluster 154]GO:0004515+F molecular\_function [name] nicotinate-nucleotide adenyltransferase activity [def] "Catalysis of the reaction

1688 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9HAN9}

1689 Pathogen[ P0C214] interacts with 3 human partners:{Q96T66;Q9HAN9;Q9BZQ4}

1690 Pathogen[ P03346] interacts with 1 human partners:{Q9HAN9}

1691 Pathogen[ Q85601] interacts with 1 human partners:{Q9HAN9}

1692 Pathogen[ P14079] interacts with 2 human partners:{Q9BZQ4;Q9HAN9}

1693 Pathogen[ P03383] interacts with 1 human partners:{Q9HAN9}

1694 Pathogen[ P03410] interacts with 2 human partners:{Q9HAN9;Q9BZQ4}

1695 Pathogen[ P14075] interacts with 1 human partners:{Q9HAN9}

1696 Pathogen[ P0C206] interacts with 2 human partners:{Q9BZQ4;Q9HAN9}

1697 Pathogen[ P03363] interacts with 1 human partners:{Q9HAN9}

1698 [Cluster 155]GO:0016896+F molecular\_function [name] exoribonuclease activity, producing 5'-phosphomonoesters [def] "Catalysis of the hydrolysis of ester linkages within ribonucleic acids by removing nucleotide residues from the 3' or 5' end to yield 5' phosphomonoesters." [GOC]

1699 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8IU60}

1700 Pathogen[ P0C214] interacts with 1 human partners:{Q8IU60}

1701 Pathogen[ P03346] interacts with 1 human partners:{Q8IU60}

1702 Pathogen[ Q85601] interacts with 1 human partners:{Q8IU60}

1703 Pathogen[ P14079] interacts with 1 human partners:{Q8IU60}

1704 Pathogen[ P03383] interacts with 1 human partners:{Q8IU60}

1705 Pathogen[ P03410] interacts with 1 human partners:{Q8IU60}

1706 Pathogen[ P14075] interacts with 1 human partners:{Q8IU60}

1707 Pathogen[ P0C206] interacts with 1 human partners:{Q8IU60}

1708 Pathogen[ P03363] interacts with 1 human partners:{Q8IU60}

1709 [Cluster 156]GO:0046969+F molecular\_function [name] NAD-dependent histone deacetylase activity (H3-K9 specific) [def] "Catalysis of the reaction

1710 Pathogen[ Q2Q067] interacts with 11 human partners:{P56524;Q9BY41;Q9UKV0;Q13547;O15379;Q8N6T7;Q9UQL6;Q969S8;Q96DB2;Q92769;Q8WUI4}

1711 Pathogen[ P0C214] interacts with 11 human partners:{Q13547;Q969S8;Q96DB2;P56524;Q92769;Q9UKV0;O15379;Q8N6T7;Q8WUI4;Q9UQL6;Q9BY41}

1712 Pathogen[ P03346] interacts with 11 human partners:{Q969S8;Q96DB2;O15379;P56524;Q92769;Q13547;Q9BY41;Q8WUI4;Q8N6T7;Q9UKV0;Q9UQL6}

1713 Pathogen[ Q85601] interacts with 11 human partners:{Q969S8;Q9UKV0;Q96DB2;Q9BY41;Q9UQL6;Q92769;Q8N6T7;P56524;O15379;Q13547;Q8WUI4}

1714 Pathogen[ P14079] interacts with 10 human

1715 partners:{Q9UQL6;O15379;Q96DB2;Q969S8;Q8WUI4;Q9UKV0;Q92769;Q8N6T7;Q9BY41;P56524}  
Pathogen[ P03383] interacts with 10 human

1716 partners:{Q8N6T7;Q9UQL6;Q92769;O15379;Q13547;Q9BY41;Q9UKV0;P56524;Q8WUI4;Q969S8}  
Pathogen[ P03410] interacts with 11 human

1717 partners:{Q9UKV0;Q9BY41;Q8N6T7;Q8WUI4;Q9UQL6;Q969S8;Q92769;O15379;P56524;Q13547;Q96DB2}  
Pathogen[ P14075] interacts with 10 human

1718 partners:{Q9BY41;Q8N6T7;Q969S8;P56524;Q9UKV0;Q13547;Q92769;O15379;Q9UQL6;Q8WUI4}  
Pathogen[ P0C206] interacts with 11 human

1719 partners:{Q92769;Q96DB2;Q9UKV0;Q13547;Q8N6T7;O15379;Q8WUI4;Q9BY41;P56524;Q969S8;Q9UQL6}  
Pathogen[ P03363] interacts with 8 human

1720 [Cluster 157]GO:0030506+F molecular\_function [name] ankyrin binding [def]  
"Interacting selectively and non-covalently with ankyrin, a 200 kDa cytoskeletal protein that attaches other cytoskeletal proteins to integral membrane proteins." [GOC

1721 Pathogen[ Q2Q067] interacts with 3 human partners:{Q01082;Q14315;Q9C0C2}  
1722 Pathogen[ P0C214] interacts with 3 human partners:{Q9C0C2;Q01082;Q14315}  
1723 Pathogen[ P03346] interacts with 5 human partners:{Q14315;P11277;Q15149;Q01082;Q9C0C2}  
1724 Pathogen[ Q85601] interacts with 3 human partners:{Q01082;Q14315;Q9C0C2}  
1725 Pathogen[ P14079] interacts with 5 human partners:{Q01082;Q15149;Q9C0C2;Q14315;P11277}  
1726 Pathogen[ P03383] interacts with 1 human partners:{Q9C0C2}  
1727 Pathogen[ P03410] interacts with 5 human partners:{Q9C0C2;Q14315;Q01082;Q15149;P11277}  
1728 Pathogen[ P14075] interacts with 1 human partners:{Q9C0C2}  
1729 Pathogen[ P0C206] interacts with 4 human partners:{Q01082;Q14315;Q9C0C2;P11277}  
1730 Pathogen[ P03363] interacts with 5 human partners:{P11277;Q01082;Q15149;Q9C0C2;Q14315}

1731 [Cluster 158]GO:0050313+F molecular\_function [name] sulfur dioxygenase activity [def]  
"Catalysis of the reaction

1732 Pathogen[ Q2Q067] interacts with 1 human partners:{O95571}  
1733 Pathogen[ P0C214] interacts with 1 human partners:{O95571}  
1734 Pathogen[ P03346] interacts with 1 human partners:{O95571}  
1735 Pathogen[ Q85601] interacts with 1 human partners:{O95571}  
1736 Pathogen[ P14079] interacts with 1 human partners:{O95571}  
1737 Pathogen[ P03383] interacts with 1 human partners:{O95571}  
1738 Pathogen[ P03410] interacts with 1 human partners:{O95571}  
1739 Pathogen[ P14075] interacts with 1 human partners:{O95571}  
1740 Pathogen[ P0C206] interacts with 1 human partners:{O95571}  
1741 Pathogen[ P03363] interacts with 1 human partners:{O95571}

1742 [Cluster 159]GO:0005092+F molecular\_function [name] GDP-dissociation inhibitor activity [def]  
"Prevents the dissociation of GDP from a GTPase, thereby preventing GTP from binding." [GOC

1743 Pathogen[ Q2Q067] interacts with 2 human partners:{P81274;P43487}  
1744 Pathogen[ P0C214] interacts with 3 human partners:{P81274;P43487;P31150}  
1745 Pathogen[ P03346] interacts with 3 human partners:{P43487;P81274;P31150}  
1746 Pathogen[ Q85601] interacts with 3 human partners:{P31150;P81274;P43487}  
1747 Pathogen[ P14079] interacts with 2 human partners:{P31150;P81274}  
1748 Pathogen[ P03383] interacts with 2 human partners:{P81274;P43487}  
1749 Pathogen[ P03410] interacts with 3 human partners:{P43487;P81274;P31150}  
1750 Pathogen[ P14075] interacts with 2 human partners:{P81274;P43487}  
1751 Pathogen[ P0C206] interacts with 3 human partners:{P81274;P43487;P31150}  
1752 Pathogen[ P03363] interacts with 3 human partners:{P31150;P81274;P43487}

1753 [Cluster 160]GO:0008200+F molecular\_function [name] ion channel inhibitor activity [def]  
"Stops, prevents, or reduces the activity of an ion channel." [GOC

1754 Pathogen[ Q2Q067] interacts with 2 human partners:{Q92681;O43768}  
1755 Pathogen[ P0C214] interacts with 2 human partners:{O43768;Q92681}  
1756 Pathogen[ P03346] interacts with 3 human partners:{Q92681;Q86UT5;O43768}  
1757 Pathogen[ Q85601] interacts with 2 human partners:{O43768;Q92681}  
1758 Pathogen[ P14079] interacts with 4 human partners:{Q92681;O43768;Q86UT5;Q5JPF3}  
1759 Pathogen[ P03383] interacts with 2 human partners:{Q92681;O43768}  
1760 Pathogen[ P03410] interacts with 4 human partners:{Q86UT5;Q5JPF3;O43768;Q92681}  
1761 Pathogen[ P14075] interacts with 2 human partners:{Q92681;O43768}  
1762 Pathogen[ P0C206] interacts with 3 human partners:{Q92681;Q86UT5;O43768}  
1763 Pathogen[ P03363] interacts with 3 human partners:{O43768;Q86UT5;Q92681}

1764 [Cluster 161]GO:0031493+F molecular\_function [name] nucleosomal histone binding [def]  
"Interacting selectively and non-covalently with a histone that is assembled into a nucleosome." [GOC

1765 Pathogen[ Q2Q067] interacts with 2 human partners:{Q96T88;Q9Y468}  
1766 Pathogen[ P0C214] interacts with 2 human partners:{Q9Y468;Q96T88}  
1767 Pathogen[ P03346] interacts with 2 human partners:{Q9Y468;Q96T88}  
1768 Pathogen[ Q85601] interacts with 2 human partners:{Q9Y468;Q96T88}  
1769 Pathogen[ P14079] interacts with 1 human partners:{Q9Y468}  
1770 Pathogen[ P03383] interacts with 1 human partners:{Q9Y468}

1771 Pathogen[ P03410] interacts with 1 human partners:{Q9Y468}  
1772 Pathogen[ P14075] interacts with 1 human partners:{Q9Y468}  
1773 Pathogen[ P0C206] interacts with 2 human partners:{Q9Y468;Q96T88}  
1774 Pathogen[ P03363] interacts with 2 human partners:{Q9Y468;Q96T88}  
1775 [Cluster 162]GO:0016866+F molecular\_function [name] intramolecular transferase activity [def] "Catalysis of the transfer of a functional group from one position to another within a single molecule." [GOC  
1776 Pathogen[ Q2Q067] interacts with 2 human partners:{P22033;P06744}  
1777 Pathogen[ P0C214] interacts with 1 human partners:{P22033}  
1778 Pathogen[ P03346] interacts with 1 human partners:{P06744}  
1779 Pathogen[ Q85601] interacts with 2 human partners:{P06744;P22033}  
1780 Pathogen[ P14079] interacts with 2 human partners:{P06744;P22033}  
1781 Pathogen[ P03383] interacts with 2 human partners:{P06744;P22033}  
1782 Pathogen[ P03410] interacts with 2 human partners:{P06744;P22033}  
1783 Pathogen[ P14075] interacts with 2 human partners:{P06744;P22033}  
1784 Pathogen[ P0C206] interacts with 2 human partners:{P06744;P22033}  
1785 Pathogen[ P03363] interacts with 1 human partners:{P06744}  
1786 [Cluster 163]GO:0001730+F molecular\_function [name] 2'-5'-oligoadenylate synthetase activity [def] "Catalysis of the reaction  
1787 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9Y6K5}  
1788 Pathogen[ P0C214] interacts with 2 human partners:{Q9Y6K5;P29728}  
1789 Pathogen[ P03346] interacts with 2 human partners:{Q15646;Q9Y6K5}  
1790 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y6K5}  
1791 Pathogen[ P14079] interacts with 2 human partners:{P29728;Q9Y6K5}  
1792 Pathogen[ P03383] interacts with 1 human partners:{Q9Y6K5}  
1793 Pathogen[ P03410] interacts with 2 human partners:{P29728;Q9Y6K5}  
1794 Pathogen[ P14075] interacts with 1 human partners:{Q9Y6K5}  
1795 Pathogen[ P0C206] interacts with 2 human partners:{Q9Y6K5;P29728}  
1796 Pathogen[ P03363] interacts with 1 human partners:{Q9Y6K5}  
1797 [Cluster 164]GO:0020037+F molecular\_function [name] heme binding [def] "Interacting selectively and non-covalently with heme, any compound of iron complexed in a porphyrin (tetrapyrrole) ring." [CHEBI  
1798 Pathogen[ Q2Q067] interacts with 5 human partners:{O14867;P68871;P29474;P99999;P69905}  
1799 Pathogen[ P0C214] interacts with 14 human partners:{P29474;Q99643;P02042;P69905;Q9NPG2;O14867;P68871;P69892;P99999;P02100;O14521;P35520;P69891;P22830}  
1800 Pathogen[ P03346] interacts with 8 human partners:{P29474;O95714;P02100;Q9NPG2;P69905;O14867;P99999;P68871}  
1801 Pathogen[ Q85601] interacts with 11 human partners:{P69905;P99999;O95714;P02042;P02100;P69892;O14867;P29474;P68871;Q9NPG2;P69891}  
1802 Pathogen[ P14079] interacts with 21 human partners:{Q8WWM9;P48775;P02042;O14867;Q9NPG2;P69891;P02100;P13498;P00395;P00403;P09105;P69905;P02008;P68871;O00264;P22830;Q6B0K9;O14521;P02144;P99999;P69892}  
1803 Pathogen[ P03383] interacts with 4 human partners:{P29474;P69905;P68871;P99999}  
1804 Pathogen[ P03410] interacts with 21 human partners:{Q6B0K9;P02008;P02144;P02100;P09105;Q8WWM9;P29474;P48775;P68871;O00264;P22830;P99999;P02042;Q99643;Q9NPG2;O14521;P00403;P69892;P69905;O14867;P69891}  
1805 Pathogen[ P14075] interacts with 4 human partners:{P29474;P68871;P99999;P69905}  
1806 Pathogen[ P0C206] interacts with 18 human partners:{P99999;P68871;Q6B0K9;O14867;P02100;P69892;O14521;P02008;P69891;Q9NPG2;P69905;O00264;P09105;P22830;P29474;P02042;O95714;Q8WWM9}  
1807 Pathogen[ P03363] interacts with 6 human partners:{P29474;P69905;P68871;P99999;O14867;O95714}  
1808 [Cluster 165]GO:0003913+F molecular\_function [name] DNA photolyase activity [def] "Catalysis of the repair of a photoproduct resulting from ultraviolet irradiation of two adjacent pyrimidine residues in DNA." [GOC  
1809 Pathogen[ Q2Q067] interacts with 1 human partners:{Q16526}  
1810 Pathogen[ P0C214] interacts with 2 human partners:{Q49AN0;Q16526}  
1811 Pathogen[ P03346] interacts with 2 human partners:{Q49AN0;Q16526}  
1812 Pathogen[ Q85601] interacts with 2 human partners:{Q49AN0;Q16526}  
1813 Pathogen[ P14079] interacts with 2 human partners:{Q16526;Q49AN0}  
1814 Pathogen[ P03383] interacts with 1 human partners:{Q16526}  
1815 Pathogen[ P03410] interacts with 2 human partners:{Q16526;Q49AN0}  
1816 Pathogen[ P14075] interacts with 1 human partners:{Q16526}  
1817 Pathogen[ P0C206] interacts with 2 human partners:{Q16526;Q49AN0}  
1818 Pathogen[ P03363] interacts with 2 human partners:{Q49AN0;Q16526}  
1819 [Cluster 166]GO:0005085+F molecular\_function [name] guanyl-nucleotide exchange factor activity [def] "Stimulates the exchange of guanyl nucleotides associated with a GTPase. Under normal cellular physiological conditions, the concentration of GTP is higher than that of GDP, favoring the replacement of GDP by GTP in association with the GTPase." [GOC  
1820 Pathogen[ Q2Q067] interacts with 14 human partners:{P18754;Q9Y6D6;Q9Y2L1;P49770;Q96QF0;Q9UI10;Q8N1I0;Q14232;Q9NR50;Q9HD47;Q9UGK8;O43504;Q13144;Q8TBN0}

1821 Pathogen[ P0C214] interacts with 15 human partners:{Q9UI10;P49770;Q9Y2L1;Q8TBN0;Q14232;Q9NR50;Q13144;Q9HD47;O43504;Q8N1I0;Q9Y6D6;Q9UGK8;P18754;Q96QF0;Q9NVN3}

1822 Pathogen[ P03346] interacts with 28 human partners:{Q6P3S1;Q15438;Q8IZD9;Q8TBN0;O95714;Q9Y6D5;Q8IV53;Q12802;P18754;Q6XZF7;Q9HD47;Q9Y6D6;Q9NR50;Q14232;Q9Y2L1;P49770;Q6DN90;O43504;Q5VV41;Q9NVN3;Q9UGK8;Q9H8V3;Q13144;Q8N1I0;Q9NR50;Q9UI10;Q92834;Q96QF0}

1823 Pathogen[ Q85601] interacts with 15 human partners:{Q9HD47;O95714;Q9NR50;Q92834;Q13144;P49770;Q9Y2L1;Q8TBN0;P18754;Q9UGK8;Q9Y6D6;Q8N1I0;Q14232;Q9UI10;Q96QF0}

1824 Pathogen[ P14079] interacts with 31 human partners:{Q6P3S1;Q6XZF7;P47224;Q9Y2Q5;Q9UGK8;Q9UI10;Q9Y6D5;Q8TBN0;Q92834;Q8IZD9;Q9UHA4;Q0VGL1;Q13144;P10911;Q12802;Q9NR50;Q8IV53;Q9Y6D6;Q6IAA8;Q96QF0;Q9H8V3;Q9Y2L1;O43504;Q6DN90;Q14232;Q8N1I0;Q9NVN3;Q15438;P18754;Q5VV41;Q9HD47}

1825 Pathogen[ P03383] interacts with 13 human partners:{Q9HD47;Q9Y2L1;Q96QF0;Q9UI10;Q9Y6D6;Q13144;Q9NR50;P18754;P49770;O43504;Q14232;Q9UGK8;Q8TBN0}

1826 Pathogen[ P03410] interacts with 29 human partners:{Q9Y2Q5;Q9Y2L1;Q9NR50;O43504;Q8IZD9;Q9HD47;Q14232;Q9NVN3;Q9UHA4;P49770;Q9UGK8;Q5VV41;Q6XZF7;Q92834;Q9Y6D6;Q9Y6D5;Q6P3S1;P47224;Q15438;Q8TBN0;Q6IAA8;Q96QF0;Q0VGL1;P18754;Q9H8V3;Q8N1I0;Q8IV53;Q9UI10;Q13144}

1827 Pathogen[ P14075] interacts with 13 human partners:{Q9Y6D6;Q9UI10;Q9Y2L1;Q14232;P49770;Q9HD47;O43504;Q96QF0;P18754;Q9UGK8;Q9NR50;Q13144;Q8TBN0}

1828 Pathogen[ P0C206] interacts with 25 human partners:{Q8IZD9;Q9UHA4;P18754;Q9Y6D6;Q14232;Q9UGK8;P47224;Q9NR50;O43504;Q13144;Q96QF0;P49770;Q8TBN0;Q9HD47;Q9Y6D5;Q9UI10;Q9Y2L1;Q9H8V3;Q8N1I0;Q8IV53;Q6XZF7;Q9NVN3;Q92834;O95714;Q6P3S1}

1829 Pathogen[ P03363] interacts with 24 human partners:{Q9UGK8;Q15438;Q5VV41;Q9UI10;Q9HD47;O43504;P10911;Q9NR50;Q6XZF7;Q8N1I0;Q8IZD9;Q9Y2L1;P49770;O95714;Q6P3S1;Q96NW4;Q92834;Q6DN90;Q13144;Q9Y6D6;P18754;Q8TBN0;Q8IV53;Q96QF0}

1830 [Cluster 167]GO:0035034+F molecular\_function [name] histone acetyltransferase regulator activity [def] "Modulates the activity of histone acetyltransferase." [GOC

1831 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9Y6B2}

1832 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y6B2}

1833 Pathogen[ P03346] interacts with 1 human partners:{Q9Y6B2}

1834 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y6B2}

1835 Pathogen[ P14079] interacts with 1 human partners:{Q9Y6B2}

1836 Pathogen[ P03383] interacts with 1 human partners:{Q9Y6B2}

1837 Pathogen[ P03410] interacts with 1 human partners:{Q9Y6B2}

1838 Pathogen[ P14075] interacts with 1 human partners:{Q9Y6B2}

1839 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y6B2}

1840 Pathogen[ P03363] interacts with 1 human partners:{Q9Y6B2}

1841 [Cluster 168]GO:0008757+F molecular\_function [name] S-adenosylmethionine-dependent methyltransferase activity [def] "Catalysis of the transfer of a methyl group from S-adenosyl-L-methionine to a substrate." [GOC

1842 Pathogen[ Q2Q067] interacts with 9 human partners:{O43463;Q9NVM4;O43159;P46087;P22061;Q14749;Q9UIC8;Q9NR22;P51580}

1843 Pathogen[ P0C214] interacts with 9 human partners:{P46087;O43159;Q9NVM4;P51580;O43463;P22061;Q14749;Q9UIC8;Q9NR22}

1844 Pathogen[ P03346] interacts with 9 human partners:{P22061;P51580;O43159;Q9UIC8;Q14749;O43463;P46087;Q9NR22;Q9NVM4}

1845 Pathogen[ Q85601] interacts with 8 human partners:{P46087;Q9NR22;Q9NVM4;O43159;O43463;P22061;Q9UIC8;Q14749}

1846 Pathogen[ P14079] interacts with 10 human partners:{Q9NR22;Q7L2J0;Q9NVM4;Q9UIC8;Q14749;Q14353;P46087;O43159;Q16625;P51580}

1847 Pathogen[ P03383] interacts with 7 human partners:{O43463;O43159;Q9NR22;P22061;P46087;Q9UIC8;Q14749}

1848 Pathogen[ P03410] interacts with 12 human partners:{Q14353;Q14749;Q9NVM4;O43159;Q9NR22;Q16625;Q9UIC8;P46087;Q7L2J0;O43463;P22061;P51580}

1849 Pathogen[ P14075] interacts with 8 human partners:{Q9NR22;P46087;P51580;P22061;O43159;O43463;Q14749;Q9UIC8}

1850 Pathogen[ P0C206] interacts with 10 human partners:{O43159;Q9UIC8;P22061;O43463;P51580;Q9NVM4;Q9NR22;P46087;Q14749;Q7L2J0}

1851 Pathogen[ P03363] interacts with 8 human partners:{P46087;P51580;Q9NVM4;Q9NR22;Q14749;Q9UIC8;O43159;O43463}

1852 [Cluster 169]GO:0034739+F molecular\_function [name] histone deacetylase activity (H3-K16 specific) [def] "Catalysis of the reaction

1853 Pathogen[ Q2Q067] interacts with 10 human partners:{P56524;Q9BY41;Q9UKV0;Q13547;O15379;Q9UQL6;Q969S8;Q96DB2;Q92769;Q8WUI4}

1854 Pathogen[ P0C214] interacts with 10 human partners:{Q13547;Q969S8;Q96DB2;P56524;Q92769;Q9UKV0;O15379;Q8WUI4;Q9UQL6;Q9BY41}

1855 Pathogen[ P03346] interacts with 10 human partners:{Q969S8;Q96DB2;O15379;P56524;Q92769;Q13547;Q9BY41;Q8WUI4;Q9UKV0;Q9UQL6}



1856 Pathogen[ Q85601] interacts with 10 human  
partners:{Q969S8;Q9UKV0;Q96DB2;Q9BY41;Q9UQL6;Q92769;P56524;O15379;Q13547;Q8WUI4}

1857 Pathogen[ P14079] interacts with 9 human  
partners:{Q9UQL6;O15379;Q96DB2;Q969S8;Q8WUI4;Q9UKV0;Q92769;Q9BY41;P56524}

1858 Pathogen[ P03383] interacts with 9 human  
partners:{Q9UQL6;Q92769;O15379;Q13547;Q9BY41;Q9UKV0;P56524;Q8WUI4;Q969S8}

1859 Pathogen[ P03410] interacts with 10 human  
partners:{Q9UKV0;Q9BY41;Q8WUI4;Q9UQL6;Q969S8;Q92769;O15379;P56524;Q13547;Q96DB2}

1860 Pathogen[ P14075] interacts with 9 human  
partners:{Q9BY41;Q969S8;P56524;Q9UKV0;Q13547;Q92769;O15379;Q9UQL6;Q8WUI4}

1861 Pathogen[ P0C206] interacts with 10 human  
partners:{Q92769;Q96DB2;Q9UKV0;Q13547;O15379;Q8WUI4;Q9BY41;P56524;Q969S8;Q9UQL6}

1862 Pathogen[ P03363] interacts with 7 human  
partners:{Q9BY41;O15379;Q969S8;Q9UQL6;Q9UKV0;Q13547;Q8WUI4}

1863 [Cluster 170]GO:0004814+F molecular\_function [name] arginine-tRNA ligase activity  
[def] "Catalysis of the reaction

1864 Pathogen[ Q2Q067] interacts with 2 human partners:{Q5T160;P54136}

1865 Pathogen[ P0C214] interacts with 2 human partners:{Q5T160;Q5D0E6}

1866 Pathogen[ P03346] interacts with 1 human partners:{P54136}

1867 Pathogen[ Q85601] interacts with 3 human partners:{P54136;Q5T160;Q5D0E6}

1868 Pathogen[ P14079] interacts with 3 human partners:{P54136;Q5T160;Q5D0E6}

1869 Pathogen[ P03383] interacts with 3 human partners:{Q5D0E6;Q5T160;P54136}

1870 Pathogen[ P03410] interacts with 3 human partners:{P54136;Q5D0E6;Q5T160}

1871 Pathogen[ P14075] interacts with 3 human partners:{P54136;Q5D0E6;Q5T160}

1872 Pathogen[ P0C206] interacts with 3 human partners:{Q5D0E6;Q5T160;P54136}

1873 Pathogen[ P03363] interacts with 2 human partners:{P54136;Q5T160}

1874 [Cluster 171]GO:0005507+F molecular\_function [name] copper ion binding [def]  
"Interacting selectively and non-covalently with copper (Cu) ions." [GOC

1875 Pathogen[ Q2Q067] interacts with 12 human  
partners:{P04156;P07438;Q9H2P0;Q93083;O14618;P04732;P04733;Q9UBF6;P04731;Q9NTM9;Q9H7H0;Q8N668}

1876 Pathogen[ P0C214] interacts with 14 human  
partners:{P08294;Q9H7H0;Q8N668;Q9NTM9;P04732;P04733;O14618;P04156;P07438;P04731;Q93083;Q14061;Q9UBF6;Q9H2P0}

1877 Pathogen[ P03346] interacts with 13 human  
partners:{Q3KNW1;Q9H2P0;Q8N668;Q9NTM9;P04732;O14618;P07438;P04733;Q93083;Q9H7H0;P04156;P04731;Q9UBF6}

1878 Pathogen[ Q85601] interacts with 12 human  
partners:{P04732;Q93083;P07438;Q9H7H0;Q9UBF6;P04733;Q9H2P0;Q8N668;Q14061;P04156;P04731;O14618}

1879 Pathogen[ P14079] interacts with 19 human  
partners:{Q93083;Q9UBF6;P04156;P47944;Q9UKY0;P00403;Q9NTM9;P07438;Q9H2P0;Q14061;O75880;Q8N668;P04731;Q9H7H0;P04732;P04733;O00244;O43819;O14618}

1880 Pathogen[ P03383] interacts with 9 human  
partners:{P04733;Q93083;P04156;Q8N668;Q9UBF6;P04732;Q9H7H0;P04731;P07438}

1881 Pathogen[ P03410] interacts with 17 human  
partners:{P47944;Q14061;Q9H7H0;P07438;P04733;Q9NTM9;Q9UBF6;P04731;Q9UKY0;Q93083;P04156;P00403;O14618;P04732;O75880;Q8N668;O43819}

1882 Pathogen[ P14075] interacts with 12 human  
partners:{Q9H7H0;P04733;P47944;Q9NTM9;P04156;Q8N668;P07438;Q93083;P04731;P04732;Q14061;Q9UBF6}

1883 Pathogen[ P0C206] interacts with 15 human  
partners:{P07438;P04156;P04732;P04733;Q9UBF6;Q93083;P04731;O14618;Q9UKY0;Q9H7H0;Q9H2P0;Q8N668;Q14061;Q9NTM9;P47944}

1884 Pathogen[ P03363] interacts with 13 human  
partners:{Q9H7H0;Q9H2P0;Q9UBF6;P04732;P04156;Q8N668;P04731;P07438;O14618;P04733;Q93083;Q9NTM9;Q3KNW1}

1885 [Cluster 172]GO:0052821+F molecular\_function [name] DNA-7-methyladenine glycosylase activity [def] "Catalysis of the reaction

1886 Pathogen[ Q2Q067] interacts with 1 human partners:{P29372}

1887 Pathogen[ P0C214] interacts with 1 human partners:{P29372}

1888 Pathogen[ P03346] interacts with 1 human partners:{P29372}

1889 Pathogen[ Q85601] interacts with 1 human partners:{P29372}

1890 Pathogen[ P14079] interacts with 1 human partners:{P29372}

1891 Pathogen[ P03383] interacts with 1 human partners:{P29372}

1892 Pathogen[ P03410] interacts with 1 human partners:{P29372}

1893 Pathogen[ P14075] interacts with 1 human partners:{P29372}

1894 Pathogen[ P0C206] interacts with 1 human partners:{P29372}

1895 Pathogen[ P03363] interacts with 1 human partners:{P29372}

1896 [Cluster 173]GO:0005544+F molecular\_function [name] calcium-dependent phospholipid binding [def] "Interacting selectively and non-covalently with phospholipids, a class of lipids containing phosphoric acid as a mono- or diester, in the presence of calcium." [GOC

1897 Pathogen[ Q2Q067] interacts with 3 human partners:{P50995;P08133;P20073}

1898 Pathogen[ P0C214] interacts with 3 human partners:{P08133;P20073;P50995}

1899 Pathogen[ P03346] interacts with 6 human

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1900     partners:{P20073;Q9UJ72;P08133;Q99829;O75131;P50995}
1901     Pathogen[ Q85601] interacts with 3 human partners:{P50995;P20073;P08133}
1902     Pathogen[ P14079] interacts with 10 human
1903     partners:{P04083;P27216;P50995;Q99829;Q5T2P8;P08758;P09525;O76027;P20073;P13928}
1904     Pathogen[ P03383] interacts with 3 human partners:{P50995;P20073;P08133}
1905     Pathogen[ P03410] interacts with 6 human
1906     partners:{P50995;O76027;Q99829;Q9UJ72;P08133;P20073}
1907     Pathogen[ P14075] interacts with 3 human partners:{P08133;P20073;P50995}
1908     Pathogen[ P0C206] interacts with 5 human
1909     partners:{P50995;Q99829;P08133;Q9UJ72;P20073}
1910     Pathogen[ P03363] interacts with 4 human partners:{Q99829;P20073;P50995;P08133}
1911 [Cluster 174]GO:0015459+F     molecular_function [name] potassium channel regulator
1912 activity [def] "Modulates the activity of a potassium channel." [GOC
1913     Pathogen[ Q2Q067] interacts with 3 human partners:{Q12959;Q9Y6X2;P56211}
1914     Pathogen[ P0C214] interacts with 3 human partners:{Q9Y6X2;P56211;Q12959}
1915     Pathogen[ P03346] interacts with 3 human partners:{P56211;Q9Y6X2;Q12959}
1916     Pathogen[ Q85601] interacts with 3 human partners:{Q9Y6X2;P56211;Q12959}
1917     Pathogen[ P14079] interacts with 2 human partners:{Q9Y6X2;P56211}
1918     Pathogen[ P03383] interacts with 2 human partners:{Q9Y6X2;P56211}
1919     Pathogen[ P03410] interacts with 3 human partners:{Q12959;Q9Y6X2;P56211}
1920     Pathogen[ P14075] interacts with 2 human partners:{P56211;Q9Y6X2}
1921     Pathogen[ P0C206] interacts with 3 human partners:{P56211;Q9Y6X2;Q12959}
1922     Pathogen[ P03363] interacts with 3 human partners:{Q12959;Q9Y6X2;P56211}
1923 [Cluster 175]GO:0051287+F     molecular_function [name] NAD binding [def] "Interacting
1924 selectively and non-covalently with nicotinamide adenine dinucleotide, a coenzyme
1925 involved in many redox and biosynthetic reactions_ binding may be to either the oxidized
1926 form, NAD+, or the reduced form, NADH." [GOC
1927     Pathogen[ Q2Q067] interacts with 8 human
1928     partners:{Q8IXJ6;P07195;Q9NTG7;P09874;O75306;P04406;Q13363;O14556}
1929     Pathogen[ P0C214] interacts with 19 human
1930     partners:{O75306;O75874;Q8N335;Q13363;P48735;P40939;O14556;P50213;O43837;Q9NTG7;P0962
1931     2;Q8IXJ6;P48163;P04406;Q16798;P07195;P51553;P09874;P21695}
1932     Pathogen[ P03346] interacts with 9 human
1933     partners:{P04406;Q8IXJ6;O14556;P09874;P07195;Q13363;P56545;O75306;Q9NTG7}
1934     Pathogen[ Q85601] interacts with 8 human
1935     partners:{P09874;O75306;Q13363;O14556;Q8IXJ6;P07195;P04406;Q9NTG7}
1936     Pathogen[ P14079] interacts with 7 human
1937     partners:{P09874;O75306;P07195;Q8IXJ6;P21695;Q9NTG7;P04406}
1938     Pathogen[ P03383] interacts with 7 human
1939     partners:{O75306;Q9NTG7;O14556;P07195;P09874;P04406;Q13363}
1940     Pathogen[ P03410] interacts with 8 human
1941     partners:{Q8IXJ6;Q9NTG7;O14556;P07195;P09874;P04406;O75306;P21695}
1942     Pathogen[ P14075] interacts with 7 human
1943     partners:{O75306;P07195;P04406;Q9NTG7;Q13363;O14556;P09874}
1944     Pathogen[ P0C206] interacts with 9 human
1945     partners:{P07195;P50213;P09874;O75306;O14556;P04406;Q8IXJ6;Q13363;Q9NTG7}
1946     Pathogen[ P03363] interacts with 6 human
1947     partners:{P56545;P04406;Q9NTG7;P09874;Q13363;O14556}
1948 [Cluster 176]GO:0003905+F     molecular_function [name] alkylbase DNA N-glycosylase
1949 activity [def] "Catalysis of the reaction
1950     Pathogen[ Q2Q067] interacts with 1 human partners:{P29372}
1951     Pathogen[ P0C214] interacts with 1 human partners:{P29372}
1952     Pathogen[ P03346] interacts with 1 human partners:{P29372}
1953     Pathogen[ Q85601] interacts with 1 human partners:{P29372}
1954     Pathogen[ P14079] interacts with 1 human partners:{P29372}
1955     Pathogen[ P03383] interacts with 1 human partners:{P29372}
1956     Pathogen[ P03410] interacts with 1 human partners:{P29372}
1957     Pathogen[ P14075] interacts with 1 human partners:{P29372}
1958     Pathogen[ P0C206] interacts with 1 human partners:{P29372}
1959     Pathogen[ P03363] interacts with 1 human partners:{P29372}
1960 [Cluster 177]GO:0048029+F     molecular_function [name] monosaccharide binding [def]
1961 "Interacting selectively and non-covalently with any monosaccharide. Monosaccharides are
1962 the simplest carbohydrates_ they are polyhydroxy aldehydes H[CH(OH)]nC(=O)H or
1963 polyhydroxy ketones H[CHOH]nC(=O)[CHOH]mH with three or more carbon atoms. They form the
1964 constitutional repeating units of oligo- and polysaccharides." [CHEBI
1965     Pathogen[ Q2Q067] interacts with 5 human
1966     partners:{O95336;P37837;P09467;P06744;P49247}
1967     Pathogen[ P0C214] interacts with 6 human
1968     partners:{P29401;P37837;P09467;O95336;Q96EK6;P49247}
1969     Pathogen[ P03346] interacts with 5 human
1970     partners:{P49247;O95336;P09467;P37837;P06744}
1971     Pathogen[ Q85601] interacts with 6 human
1972     partners:{O95336;P37837;P06744;P49247;Q96EK6;P09467}
1973     Pathogen[ P14079] interacts with 8 human
1974     partners:{A2VDF0;P49247;P29401;P06744;O95336;Q96EK6;P09467;P37837}
1975     Pathogen[ P03383] interacts with 4 human partners:{P09467;P37837;P49247;P06744}

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1947 Pathogen[ P03410] interacts with 7 human partners:{A2VDF0;P06744;P37837;Q96EK6;P09467;O95336;P49247}

1948 Pathogen[ P14075] interacts with 6 human partners:{P06744;O95336;P49247;Q96EK6;P37837;P09467}

1949 Pathogen[ P0C206] interacts with 8 human partners:{P09467;P06744;Q96EK6;O95336;P49247;A2VDF0;P37837;P29401}

1950 Pathogen[ P03363] interacts with 3 human partners:{P06744;P37837;O95336}

1951 [Cluster 178]GO:0046975+F molecular\_function [name] histone methyltransferase activity (H3-K36 specific) [def] "Catalysis of the reaction

1952 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9NRG4;Q86TU7}

1953 Pathogen[ P0C214] interacts with 2 human partners:{Q86TU7;Q9NRG4}

1954 Pathogen[ P03346] interacts with 2 human partners:{Q9NRG4;Q86TU7}

1955 Pathogen[ Q85601] interacts with 2 human partners:{Q86TU7;Q9NRG4}

1956 Pathogen[ P14079] interacts with 2 human partners:{Q9NRG4;Q86TU7}

1957 Pathogen[ P03383] interacts with 2 human partners:{Q9NRG4;Q86TU7}

1958 Pathogen[ P03410] interacts with 2 human partners:{Q86TU7;Q9NRG4}

1959 Pathogen[ P14075] interacts with 2 human partners:{Q86TU7;Q9NRG4}

1960 Pathogen[ P0C206] interacts with 2 human partners:{Q9NRG4;Q86TU7}

1961 Pathogen[ P03363] interacts with 1 human partners:{Q9NRG4}

1962 [Cluster 179]GO:0016429+F molecular\_function [name] tRNA (adenine-N1-)-methyltransferase activity [def] "Catalysis of the reaction

1963 Pathogen[ Q2Q067] interacts with 2 human partners:{Q96FX7;Q9BVS5}

1964 Pathogen[ P0C214] interacts with 2 human partners:{Q96FX7;Q9BVS5}

1965 Pathogen[ P03346] interacts with 2 human partners:{Q96FX7;Q9BVS5}

1966 Pathogen[ Q85601] interacts with 2 human partners:{Q9BVS5;Q96FX7}

1967 Pathogen[ P14079] interacts with 2 human partners:{Q9BVS5;Q96FX7}

1968 Pathogen[ P03383] interacts with 2 human partners:{Q9BVS5;Q96FX7}

1969 Pathogen[ P03410] interacts with 2 human partners:{Q96FX7;Q9BVS5}

1970 Pathogen[ P14075] interacts with 2 human partners:{Q9BVS5;Q96FX7}

1971 Pathogen[ P0C206] interacts with 2 human partners:{Q96FX7;Q9BVS5}

1972 Pathogen[ P03363] interacts with 2 human partners:{Q96FX7;Q9BVS5}

1973 [Cluster 180]GO:0017125+F molecular\_function [name] deoxycytidyl transferase activity [def] "Catalysis of the insertion of a dCMP residue opposite a template abasic site in DNA." [PMID

1974 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UBZ9}

1975 Pathogen[ P0C214] interacts with 1 human partners:{Q9UBZ9}

1976 Pathogen[ P03346] interacts with 1 human partners:{Q9UBZ9}

1977 Pathogen[ Q85601] interacts with 1 human partners:{Q9UBZ9}

1978 Pathogen[ P14079] interacts with 1 human partners:{Q9UBZ9}

1979 Pathogen[ P03383] interacts with 1 human partners:{Q9UBZ9}

1980 Pathogen[ P03410] interacts with 1 human partners:{Q9UBZ9}

1981 Pathogen[ P14075] interacts with 1 human partners:{Q9UBZ9}

1982 Pathogen[ P0C206] interacts with 1 human partners:{Q9UBZ9}

1983 Pathogen[ P03363] interacts with 1 human partners:{Q9UBZ9}

1984 [Cluster 181]GO:0008798+F molecular\_function [name] beta-aspartyl-peptidase activity [def] "Catalysis of the cleavage of a beta-linked aspartic residue from the N-terminus of a polypeptide." [EC

1985 Pathogen[ Q2Q067] interacts with 1 human partners:{Q7L266}

1986 Pathogen[ P0C214] interacts with 1 human partners:{Q7L266}

1987 Pathogen[ P03346] interacts with 1 human partners:{Q7L266}

1988 Pathogen[ Q85601] interacts with 1 human partners:{Q7L266}

1989 Pathogen[ P14079] interacts with 1 human partners:{Q7L266}

1990 Pathogen[ P03383] interacts with 1 human partners:{Q7L266}

1991 Pathogen[ P03410] interacts with 1 human partners:{Q7L266}

1992 Pathogen[ P14075] interacts with 1 human partners:{Q7L266}

1993 Pathogen[ P0C206] interacts with 1 human partners:{Q7L266}

1994 Pathogen[ P03363] interacts with 1 human partners:{Q7L266}

1995 [Cluster 182]GO:0016149+F molecular\_function [name] translation release factor activity, codon specific [def] "A translation release factor that is specific for one or more particular termination codons\_ acts at the ribosomal A-site and require polypeptidyl-tRNA at the P-site." [ISBN

1996 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9UGC7;O75570;P62495}

1997 Pathogen[ P0C214] interacts with 3 human partners:{Q9UGC7;O75570;P62495}

1998 Pathogen[ P03346] interacts with 3 human partners:{Q9UGC7;P62495;O75570}

1999 Pathogen[ Q85601] interacts with 3 human partners:{P62495;O75570;Q9UGC7}

2000 Pathogen[ P14079] interacts with 3 human partners:{P62495;O75570;Q9UGC7}

2001 Pathogen[ P03383] interacts with 3 human partners:{O75570;P62495;Q9UGC7}

2002 Pathogen[ P03410] interacts with 3 human partners:{P62495;Q9UGC7;O75570}

2003 Pathogen[ P14075] interacts with 3 human partners:{Q9UGC7;P62495;O75570}

2004 Pathogen[ P0C206] interacts with 3 human partners:{Q9UGC7;P62495;O75570}

2005 Pathogen[ P03363] interacts with 3 human partners:{O75570;P62495;Q9UGC7}

2006 [Cluster 183]GO:0030372+F molecular\_function [name] high molecular weight B cell growth factor receptor binding [def] "Interacting selectively and non-covalently with the high molecular weight B cell growth factor receptor." [GOC

2007 Pathogen[ Q2Q067] interacts with 1 human partners:{P40222}

2008 Pathogen[ P0C214] interacts with 1 human partners:{P40222}

2009 Pathogen[ P03346] interacts with 1 human partners:{P40222}  
2010 Pathogen[ Q85601] interacts with 1 human partners:{P40222}  
2011 Pathogen[ P14079] interacts with 1 human partners:{P40222}  
2012 Pathogen[ P03383] interacts with 1 human partners:{P40222}  
2013 Pathogen[ P03410] interacts with 1 human partners:{P40222}  
2014 Pathogen[ P14075] interacts with 1 human partners:{P40222}  
2015 Pathogen[ P0C206] interacts with 1 human partners:{P40222}  
2016 Pathogen[ P03363] interacts with 1 human partners:{P40222}  
2017 [Cluster 184]GO:0051539+F molecular\_function [name] 4 iron, 4 sulfur cluster binding  
[def] "Interacting selectively and non-covalently with a 4 iron, 4 sulfur (4Fe-4S)  
cluster\_ this cluster consists of four iron atoms, with the inorganic sulfur atoms found  
between the irons and acting as bridging ligands." [GOC  
2018 Pathogen[ Q2Q067] interacts with 8 human  
partners:{Q9UIF7;Q9UMS0;O75251;O75306;P21912;P78549;P21399;P48200}  
2019 Pathogen[ P0C214] interacts with 14 human  
partners:{O75306;P28331;Q9HA92;P48200;Q9H6Q4;Q8WXG1;Q99798;Q9UMS0;Q9UIF7;O75251;P7854  
9;P21912;P21399;Q9Y5Y2}  
2020 Pathogen[ P03346] interacts with 9 human  
partners:{Q9UMS0;Q9UIF7;P21912;P48200;Q9Y5Y2;P78549;O75251;O75306;P21399}  
2021 Pathogen[ Q85601] interacts with 9 human  
partners:{P21399;O75306;P21912;P48200;Q9UMS0;Q9H6Q4;Q9UIF7;Q9Y5Y2;P78549}  
2022 Pathogen[ P14079] interacts with 15 human  
partners:{Q5VV42;Q9UIF7;P21399;O75306;P78549;Q9UMS0;Q9H6Q4;O75251;P48200;Q9Y5Y2;Q9HA9  
2;Q96SZ6;Q96FC9;Q8WXG1;P21912}  
2023 Pathogen[ P03383] interacts with 5 human  
partners:{O75251;P48200;O75306;Q9H6Q4;Q9UMS0}  
2024 Pathogen[ P03410] interacts with 13 human  
partners:{O75251;Q9Y5Y2;Q9H6Q4;P78549;Q8WXG1;P21399;Q9UMS0;Q9HA92;P21912;O75306;Q96FC  
9;P48200;Q9UIF7}  
2025 Pathogen[ P14075] interacts with 5 human  
partners:{Q9UMS0;Q9UIF7;O75306;O75251;P48200}  
2026 Pathogen[ P0C206] interacts with 14 human  
partners:{Q9HA92;O75251;O75306;Q9Y5Y2;P48200;Q9H6Q4;Q99798;P21912;Q8WXG1;Q9UMS0;Q9UIF  
7;Q9BX63;P21399;P78549}  
2027 Pathogen[ P03363] interacts with 5 human  
partners:{Q9BX63;Q9UMS0;P48200;Q9UIF7;Q9Y5Y2}  
2028 [Cluster 185]GO:0008177+F molecular\_function [name] succinate dehydrogenase  
(ubiquinone) activity [def] "Catalysis of the reaction  
2029 Pathogen[ Q2Q067] interacts with 2 human partners:{P31040;P21912}  
2030 Pathogen[ P0C214] interacts with 1 human partners:{P21912}  
2031 Pathogen[ P03346] interacts with 2 human partners:{P31040;P21912}  
2032 Pathogen[ Q85601] interacts with 2 human partners:{P21912;P31040}  
2033 Pathogen[ P14079] interacts with 2 human partners:{P31040;P21912}  
2034 Pathogen[ P03383] interacts with 1 human partners:{P31040}  
2035 Pathogen[ P03410] interacts with 2 human partners:{P31040;P21912}  
2036 Pathogen[ P14075] interacts with 1 human partners:{P31040}  
2037 Pathogen[ P0C206] interacts with 2 human partners:{P31040;P21912}  
2038 Pathogen[ P03363] interacts with 1 human partners:{P31040}  
2039 [Cluster 186]GO:0035033+F molecular\_function [name] histone deacetylase regulator  
activity [def] "Modulates the activity of histone deacetylase." [GOC  
2040 Pathogen[ Q2Q067] interacts with 1 human partners:{O75376}  
2041 Pathogen[ P0C214] interacts with 1 human partners:{O75376}  
2042 Pathogen[ P03346] interacts with 1 human partners:{O75376}  
2043 Pathogen[ Q85601] interacts with 1 human partners:{O75376}  
2044 Pathogen[ P14079] interacts with 2 human partners:{P45983;O75376}  
2045 Pathogen[ P03383] interacts with 1 human partners:{O75376}  
2046 Pathogen[ P03410] interacts with 1 human partners:{O75376}  
2047 Pathogen[ P14075] interacts with 1 human partners:{O75376}  
2048 Pathogen[ P0C206] interacts with 1 human partners:{O75376}  
2049 Pathogen[ P03363] interacts with 1 human partners:{O75376}  
2050 [Cluster 187]GO:0097372+F  
2051 Pathogen[ Q2Q067] interacts with 11 human  
partners:{P56524;Q9BY41;Q9UKV0;Q13547;O15379;Q9UQL6;Q969S8;Q96DB2;Q92769;Q8WUI4;Q9NRC  
8}  
2052 Pathogen[ P0C214] interacts with 11 human  
partners:{Q13547;Q969S8;Q96DB2;P56524;Q92769;Q9UKV0;O15379;Q9NRC8;Q8WUI4;Q9UQL6;Q9BY4  
1}  
2053 Pathogen[ P03346] interacts with 11 human  
partners:{Q969S8;Q96DB2;O15379;P56524;Q92769;Q13547;Q9BY41;Q8WUI4;Q9UKV0;Q9NRC8;Q9UQL  
6}  
2054 Pathogen[ Q85601] interacts with 11 human  
partners:{Q969S8;Q9NRC8;Q9UKV0;Q96DB2;Q9BY41;Q9UQL6;Q92769;P56524;O15379;Q13547;Q8WUI  
4}  
2055 Pathogen[ P14079] interacts with 10 human  
partners:{Q9UQL6;O15379;Q96DB2;Q969S8;Q8WUI4;Q9UKV0;Q92769;Q9BY41;P56524;Q9NRC8}  
2056 Pathogen[ P03383] interacts with 10 human

2057 partners:{Q9UQL6;Q92769;O15379;Q13547;Q9BY41;Q9UKV0;P56524;Q8WUI4;Q969S8;Q9NRC8}  
Pathogen[ P03410] interacts with 11 human

2058 partners:{Q9UKV0;Q9BY41;Q8WUI4;Q9UQL6;Q969S8;Q92769;O15379;P56524;Q13547;Q9NRC8;Q96DB2}  
Pathogen[ P14075] interacts with 10 human

2059 partners:{Q9BY41;Q969S8;P56524;Q9UKV0;Q13547;Q92769;O15379;Q9NRC8;Q9UQL6;Q8WUI4}  
Pathogen[ P0C206] interacts with 11 human

2060 partners:{Q92769;Q96DB2;Q9UKV0;Q13547;O15379;Q8WUI4;Q9NRC8;Q9BY41;P56524;Q969S8;Q9UQL6}  
Pathogen[ P03363] interacts with 8 human

2061 partners:{Q9BY41;O15379;Q969S8;Q9UQL6;Q9UKV0;Q13547;Q8WUI4;Q9NRC8}  
[Cluster 188]GO:0004708+F molecular\_function [name] MAP kinase kinase activity [def] "Catalysis of the concomitant phosphorylation of threonine (T) and tyrosine (Y) residues in a Thr-Glu-Tyr (TEY) thiolester sequence in MAP kinases. It is a dual-specificity mitogen-activated protein kinase and requires activation by the serine/threonine kinase, MAP kinase kinase." [ISBN

2062 Pathogen[ Q2Q067] interacts with 1 human partners:{043318}  
2063 Pathogen[ P0C214] interacts with 1 human partners:{043318}  
2064 Pathogen[ P03346] interacts with 1 human partners:{043318}  
2065 Pathogen[ Q85601] interacts with 1 human partners:{043318}  
2066 Pathogen[ P14079] interacts with 3 human partners:{P53779;P52564;Q16644}  
2067 Pathogen[ P03383] interacts with 1 human partners:{043318}  
2068 Pathogen[ P03410] interacts with 2 human partners:{043318;P53779}  
2069 Pathogen[ P14075] interacts with 1 human partners:{043318}  
2070 Pathogen[ P0C206] interacts with 1 human partners:{043318}  
2071 Pathogen[ P03363] interacts with 1 human partners:{043318}

2072 [Cluster 189]GO:0001047+F molecular\_function [name] core promoter binding [def] "Interacting selectively and non-covalently with the regulatory region composed of the transcription start site and binding sites for the basal transcription machinery. Binding may occur as a sequence specific interaction or as an interaction observed only once a factor has been recruited to the DNA by other factors." [GOC

2073 Pathogen[ Q2Q067] interacts with 13 human  
partners:{P06400;Q01094;Q15910;Q9Y2X9;Q13547;Q15424;P38159;O00716;Q13127;P28324;Q14872;Q14209;P17947}

2074 Pathogen[ P0C214] interacts with 13 human  
partners:{Q13547;Q14872;P38159;P17947;Q15910;O00716;Q01094;P28324;Q13127;Q15424;Q9Y2X9;Q14209;P06400}

2075 Pathogen[ P03346] interacts with 13 human  
partners:{P28324;P06400;Q14872;Q14209;Q01094;Q13547;Q15910;P17947;Q15424;Q9Y2X9;P38159;O00716;Q13127}

2076 Pathogen[ Q85601] interacts with 13 human  
partners:{Q13127;P06400;Q15424;Q14872;Q9Y2X9;Q14209;P17947;Q15910;Q13547;P38159;O00716;P28324;Q01094}

2077 Pathogen[ P14079] interacts with 9 human  
partners:{Q14209;O00716;Q15424;Q9Y2X9;Q14872;Q15910;Q13127;Q01094;P38159}

2078 Pathogen[ P03383] interacts with 13 human  
partners:{O00716;Q14209;Q01094;P06400;P38159;Q14872;P28324;Q13547;Q15910;Q15424;Q9Y2X9;P17947;Q13127}

2079 Pathogen[ P03410] interacts with 13 human  
partners:{P17947;P28324;P06400;Q15424;Q13127;O00716;Q9Y2X9;Q14872;Q15910;Q13547;Q01094;Q14209;P38159}

2080 Pathogen[ P14075] interacts with 13 human  
partners:{P38159;Q15910;O00716;Q14209;Q13547;P28324;Q15424;P17947;Q01094;P06400;Q9Y2X9;Q13127;Q14872}

2081 Pathogen[ P0C206] interacts with 13 human  
partners:{Q9Y2X9;Q13127;Q13547;O00716;Q15910;Q14209;P38159;Q01094;P28324;P17947;Q15424;Q14872;P06400}

2082 Pathogen[ P03363] interacts with 13 human  
partners:{P17947;Q15910;Q9Y2X9;P06400;Q13127;Q15424;Q14872;P38159;Q01094;Q14209;Q13547;O00716;P28324}

2083 [Cluster 190]GO:0047134+F molecular\_function [name] protein-disulfide reductase activity [def] "Catalysis of the reaction

2084 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BRA2}  
2085 Pathogen[ P0C214] interacts with 1 human partners:{Q9BRA2}  
2086 Pathogen[ P03346] interacts with 1 human partners:{Q9BRA2}  
2087 Pathogen[ Q85601] interacts with 1 human partners:{Q9BRA2}  
2088 Pathogen[ P14079] interacts with 1 human partners:{Q9BRA2}  
2089 Pathogen[ P03383] interacts with 1 human partners:{Q9BRA2}  
2090 Pathogen[ P03410] interacts with 1 human partners:{Q9BRA2}  
2091 Pathogen[ P14075] interacts with 1 human partners:{Q9BRA2}  
2092 Pathogen[ P0C206] interacts with 1 human partners:{Q9BRA2}  
2093 Pathogen[ P03363] interacts with 1 human partners:{Q9BRA2}

2094 [Cluster 191]GO:0008186+F molecular\_function [name] RNA-dependent ATPase activity [def] "Catalysis of the reaction

2095 Pathogen[ Q2Q067] interacts with 3 human partners:{Q13838;P38935;Q92841}  
2096 Pathogen[ P0C214] interacts with 3 human partners:{Q92841;P38935;Q13838}

2097 Pathogen[ P03346] interacts with 3 human partners:{P38935;Q92841;Q13838}

2098 Pathogen[ Q85601] interacts with 2 human partners:{P38935;Q13838}

2099 Pathogen[ P14079] interacts with 2 human partners:{Q13838;P38935}

2100 Pathogen[ P03383] interacts with 3 human partners:{Q13838;Q92841;P38935}

2101 Pathogen[ P03410] interacts with 2 human partners:{Q13838;P38935}

2102 Pathogen[ P14075] interacts with 3 human partners:{P38935;Q92841;Q13838}

2103 Pathogen[ P0C206] interacts with 3 human partners:{P38935;Q13838;Q92841}

2104 Pathogen[ P03363] interacts with 3 human partners:{Q92841;Q13838;P38935}

2105 [Cluster 192]GO:0019787+F molecular\_function [name] small conjugating protein ligase activity [def] "Catalysis of ATP-dependent isopeptide bond formation between the carboxy-terminal residues of a small conjugating protein such as ubiquitin or a ubiquitin-like protein, and a substrate lysine residue. This function may be performed alone or in conjunction with an E3, ubiquitin-like protein ligase." [GOC

2106 Pathogen[ Q2Q067] interacts with 6 human partners:{Q9H8T0;Q9Y4X5;O14933;P11441;Q9NT62;Q9UBS8}

2107 Pathogen[ P0C214] interacts with 6 human partners:{O14933;Q9H8T0;Q9UBS8;P11441;Q9Y4X5;Q9NT62}

2108 Pathogen[ P03346] interacts with 6 human partners:{Q9NT62;Q9H8T0;P11441;Q9UBS8;O14933;Q9Y4X5}

2109 Pathogen[ Q85601] interacts with 6 human partners:{O14933;Q9H8T0;Q9NT62;Q9UBS8;P11441;Q9Y4X5}

2110 Pathogen[ P14079] interacts with 5 human partners:{Q9NT62;Q9H8T0;Q9UBS8;O14933;P11441}

2111 Pathogen[ P03383] interacts with 5 human partners:{O14933;Q9UBS8;Q9NT62;Q9H8T0;P11441}

2112 Pathogen[ P03410] interacts with 6 human partners:{Q9H8T0;O14933;Q9UBS8;Q9Y4X5;Q9NT62;P11441}

2113 Pathogen[ P14075] interacts with 5 human partners:{Q9NT62;O14933;Q9H8T0;P11441;Q9UBS8}

2114 Pathogen[ P0C206] interacts with 6 human partners:{O14933;Q9H8T0;P11441;Q9Y4X5;Q9UBS8;Q9NT62}

2115 Pathogen[ P03363] interacts with 6 human partners:{P11441;O14933;Q9NT62;Q9Y4X5;Q9H8T0;Q9UBS8}

2116 [Cluster 193]GO:0046972+F molecular\_function [name] histone acetyltransferase activity (H4-K16 specific) [def] "Catalysis of the reaction

2117 Pathogen[ Q2Q067] interacts with 3 human partners:{Q96EZ8;P51610;Q7Z3B3}

2118 Pathogen[ P0C214] interacts with 2 human partners:{P51610;Q96EZ8}

2119 Pathogen[ P03346] interacts with 4 human partners:{Q96EZ8;P51610;Q7Z3B3;Q9H7Z6}

2120 Pathogen[ Q85601] interacts with 3 human partners:{Q9H7Z6;P51610;Q96EZ8}

2121 Pathogen[ P14079] interacts with 5 human partners:{P51610;Q7Z3B3;Q9P2N6;Q96EZ8;Q9H9L4}

2122 Pathogen[ P03383] interacts with 2 human partners:{P51610;Q96EZ8}

2123 Pathogen[ P03410] interacts with 5 human partners:{Q9P2N6;P51610;Q9H9L4;Q96EZ8;Q7Z3B3}

2124 Pathogen[ P14075] interacts with 3 human partners:{P51610;Q7Z3B3;Q96EZ8}

2125 Pathogen[ P0C206] interacts with 6 human partners:{Q9H9L4;Q96EZ8;P51610;Q9P2N6;Q7Z3B3;Q9H7Z6}

2126 Pathogen[ P03363] interacts with 3 human partners:{Q7Z3B3;Q96EZ8;P51610}

2127 [Cluster 194]GO:0008157+F molecular\_function [name] protein phosphatase 1 binding [def] "Interacting selectively and non-covalently with the enzyme protein phosphatase 1." [GOC

2128 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96QC0}

2129 Pathogen[ P0C214] interacts with 1 human partners:{Q96QC0}

2130 Pathogen[ P03346] interacts with 3 human partners:{Q96QC0;Q9UKA4;Q8TEC5}

2131 Pathogen[ Q85601] interacts with 1 human partners:{Q96QC0}

2132 Pathogen[ P14079] interacts with 3 human partners:{Q9UKA4;Q8IZ21;Q96QC0}

2133 Pathogen[ P03383] interacts with 1 human partners:{Q96QC0}

2134 Pathogen[ P03410] interacts with 3 human partners:{Q96QC0;Q9UKA4;Q8IZ21}

2135 Pathogen[ P14075] interacts with 1 human partners:{Q96QC0}

2136 Pathogen[ P0C206] interacts with 2 human partners:{Q96QC0;Q9UKA4}

2137 Pathogen[ P03363] interacts with 2 human partners:{Q96QC0;Q8TEC5}

2138 [Cluster 195]GO:0016403+F molecular\_function [name] dimethylargininase activity [def] "Catalysis of the reaction

2139 Pathogen[ Q2Q067] interacts with 1 human partners:{095865}

2140 Pathogen[ P0C214] interacts with 1 human partners:{095865}

2141 Pathogen[ P03346] interacts with 1 human partners:{095865}

2142 Pathogen[ Q85601] interacts with 1 human partners:{095865}

2143 Pathogen[ P14079] interacts with 1 human partners:{095865}

2144 Pathogen[ P03383] interacts with 1 human partners:{095865}

2145 Pathogen[ P03410] interacts with 1 human partners:{095865}

2146 Pathogen[ P14075] interacts with 1 human partners:{095865}

2147 Pathogen[ P0C206] interacts with 1 human partners:{095865}

2148 Pathogen[ P03363] interacts with 1 human partners:{095865}

2149 [Cluster 196]GO:0000982+F molecular\_function [name] RNA polymerase II core promoter proximal region sequence-specific DNA binding transcription factor activity [def] "Interacting selectively and non-covalently with a sequence of DNA that is in cis with

and relatively close to a core promoter for RNA polymerase II (RNAP II) in order to modulate transcription by RNAP II." [GOC

2150 Pathogen[ Q2Q067] interacts with 4 human partners:{Q8WYA1;Q92985;Q06330;P18146}

2151 Pathogen[ P0C214] interacts with 4 human partners:{Q06330;Q92985;Q8WYA1;P18146}

2152 Pathogen[ P03346] interacts with 7 human partners:{Q06330;O00327;Q9UBG7;Q8WYA1;O15516;P18146;Q92985}

2153 Pathogen[ Q85601] interacts with 7 human partners:{P18146;Q06330;O15516;Q8WYA1;O00327;Q9UBG7;Q92985}

2154 Pathogen[ P14079] interacts with 5 human partners:{Q92985;Q06330;P28360;Q8WYA1;Q9UBG7}

2155 Pathogen[ P03383] interacts with 3 human partners:{Q06330;P18146;Q92985}

2156 Pathogen[ P03410] interacts with 5 human partners:{Q06330;Q92985;P18146;Q8WYA1;Q9UBG7}

2157 Pathogen[ P14075] interacts with 3 human partners:{P18146;Q06330;Q92985}

2158 Pathogen[ P0C206] interacts with 7 human partners:{Q06330;P18146;O00327;O15516;Q92985;Q8WYA1;Q9UBG7}

2159 Pathogen[ P03363] interacts with 6 human partners:{Q92985;P18146;Q06330;Q8WYA1;O00327;Q9UBG7}

2160 [Cluster 197]GO:0001103+F molecular\_function [name] RNA polymerase II repressing transcription factor binding [def] "Interacting selectively and non-covalently with an RNA polymerase II transcription repressing factor, a protein involved in negative regulation of transcription." [GOC

2161 Pathogen[ Q2Q067] interacts with 8 human partners:{P20226;Q9NPF5;Q99708;Q96ST3;P52657;O14776;P08047;Q06330}

2162 Pathogen[ P0C214] interacts with 8 human partners:{P52657;Q99708;Q06330;O14776;P20226;Q96ST3;P08047;Q9NPF5}

2163 Pathogen[ P03346] interacts with 8 human partners:{Q06330;Q96ST3;Q99708;P08047;P20226;P52657;O14776;Q9NPF5}

2164 Pathogen[ Q85601] interacts with 8 human partners:{P52657;Q06330;Q99708;O14776;P08047;P20226;Q9NPF5;Q96ST3}

2165 Pathogen[ P14079] interacts with 6 human partners:{O14776;Q96ST3;Q06330;Q9NPF5;Q99708;P52657}

2166 Pathogen[ P03383] interacts with 8 human partners:{Q06330;P08047;P20226;P52657;Q9NPF5;O14776;Q99708;Q96ST3}

2167 Pathogen[ P03410] interacts with 8 human partners:{Q99708;Q06330;Q9NPF5;P20226;P52657;Q96ST3;O14776;P08047}

2168 Pathogen[ P14075] interacts with 8 human partners:{Q96ST3;P52657;O14776;P20226;Q9NPF5;Q06330;Q99708;P08047}

2169 Pathogen[ P0C206] interacts with 8 human partners:{Q96ST3;Q9NPF5;Q06330;Q99708;P20226;P52657;P08047;O14776}

2170 Pathogen[ P03363] interacts with 8 human partners:{Q9NPF5;Q06330;P52657;Q99708;Q96ST3;P20226;O14776;P08047}

2171 [Cluster 198]GO:0003914+F molecular\_function [name] DNA (6-4) photolyase activity [def] "Catalysis of the reaction

2172 Pathogen[ Q2Q067] interacts with 1 human partners:{Q16526}

2173 Pathogen[ P0C214] interacts with 2 human partners:{Q49AN0;Q16526}

2174 Pathogen[ P03346] interacts with 2 human partners:{Q49AN0;Q16526}

2175 Pathogen[ Q85601] interacts with 2 human partners:{Q49AN0;Q16526}

2176 Pathogen[ P14079] interacts with 2 human partners:{Q16526;Q49AN0}

2177 Pathogen[ P03383] interacts with 1 human partners:{Q16526}

2178 Pathogen[ P03410] interacts with 2 human partners:{Q16526;Q49AN0}

2179 Pathogen[ P14075] interacts with 1 human partners:{Q16526}

2180 Pathogen[ P0C206] interacts with 2 human partners:{Q16526;Q49AN0}

2181 Pathogen[ P03363] interacts with 2 human partners:{Q49AN0;Q16526}

2182 [Cluster 199]GO:0016881+F molecular\_function [name] acid-amino acid ligase activity [def] "Catalysis of the ligation of an acid to an amino acid via a carbon-nitrogen bond, with the concomitant hydrolysis of the diphosphate bond in ATP or a similar triphosphate." [GOC

2183 Pathogen[ Q2Q067] interacts with 32 human partners:{Q96J02;Q14258;Q9HAU4;Q5JXB2;Q9UII4;P62837;Q15386;O60260;P49427;O00762;Q9Y2X8;P60604;P63279;Q7Z6Z7;P51965;Q14669;P61077;P63146;Q9H8T0;Q9NPD8;O14933;P51668;Q96PU5;P61088;O76064;Q15819;Q9NR09;P49459;Q05086;P62256;P68036;Q13404}

2184 Pathogen[ P0C214] interacts with 46 human partners:{Q05086;O14933;Q96B02;Q96J02;Q9H832;Q16763;Q9HAU4;O00762;P49427;Q5JXB2;P63279;P49459;Q13404;Q969T4;O00308;Q5T447;P51965;Q9H0M0;P61077;Q9HCE7;Q14258;P62253;Q15819;P61086;Q9H8T0;O95071;Q9Y2X8;Q15386;Q9UII4;Q9H4P4;Q14669;Q969M7;Q9NR09;Q7Z6Z7;O60260;Q712K3;P62256;P51668;O76064;Q9NPD8;P61081;Q96LR5;P63146;P61088;Q96PU5;P60604}

2185 Pathogen[ P03346] interacts with 39 human partners:{Q96J02;O76064;Q9HAU4;Q96PU5;P68036;Q14258;O95714;P49427;Q9UII4;Q9H4P4;P63279;Q15386;P49459;Q9Y2X8;P51668;Q5T447;P61077;Q13404;P61088;Q9H8T0;P60604;P51965;P63146;O00762;Q14669;P62837;Q9NPD8;O60260;O14933;Q9NR09;Q9ULT8;Q5JXB2;Q05086;P62256;Q9H0M0;O95071;Q7Z6Z7;O00308;Q15819}

2186 Pathogen[ Q85601] interacts with 42 human partners:{Q96J02;P62253;Q9HAU4;Q16763;P63146;O14933;Q14258;O95714;P49427;Q9Y2X8;Q96PU5;Q969T4;Q14669;Q15386;Q96B02;Q9NPD8;P51668;Q96LR5;P68036;P61077;P63279;Q13404;Q9H8T0;O76064;P51965;P61086;O00762;P49459;O60260;P62837;Q9H832;Q9NR09;Q7Z6Z7;Q969M7;Q5JXB2;

2187 Pathogen[ P14079] interacts with 26 human partners: {O60260;P51965;P63279;P68036;Q5JXB2;Q15819;Q13404;Q8IWF7;Q9NPD8;P60604;Q9H8T0;Q9HAU4;Q14258;P61077;Q9NR09;P62256;P51668;Q969M7;P49459;Q96J02;Q9Y2X8;P49427;P62837;O00762;O14933;P63146}

2188 Pathogen[ P03383] interacts with 24 human partners: {O14933;P51965;Q5JXB2;P49427;Q9Y2X8;O00762;P61077;P61088;Q9H8T0;O60260;P60604;Q15819;Q13404;P62837;Q9H832;P68036;Q9NR09;P49459;Q9NPD8;Q14258;P62256;P63146;P63279;P51668}

2189 Pathogen[ P03410] interacts with 25 human partners: {P49427;P51965;P49459;Q9H8T0;O60260;P68036;P61088;Q14258;Q15819;O14933;Q5JXB2;Q9NR09;P62256;P63146;Q9Y2X8;P51668;Q9NPD8;O00762;P63279;Q969M7;P60604;Q13404;Q8IWF7;P61077;P62837}

2190 Pathogen[ P14075] interacts with 22 human partners: {P60604;Q15819;P68036;P62837;P49427;P61088;P49459;P51965;O14933;Q9Y2X8;P63279;P61077;Q9NPD8;O00762;Q9H8T0;Q14258;Q13404;Q9NR09;P62256;P63146;P51668;O60260}

2191 Pathogen[ P0C206] interacts with 44 human partners: {Q16763;Q9Y2X8;Q96PU5;Q9NPD8;P62253;Q9H4P4;O00308;Q9HAU4;Q5JXB2;P68036;O14933;Q969M7;Q14258;Q9H8T0;Q05086;Q96J02;Q96LR5;P62837;P49427;Q14669;Q15386;Q712K3;P51965;P61088;P60604;Q9NR09;P49459;O60260;P62256;Q15819;Q969T4;O00762;Q9H832;P61077;Q7Z6Z7;Q13404;P61086;Q96B02;O76064;O95071;P51668;O95714;Q8IWF7;P63146}

2192 Pathogen[ P03363] interacts with 41 human partners: {Q9H832;P51965;P60604;P49459;O00762;Q9HAU4;O14933;P61081;Q14258;Q9ULT8;P63146;P49427;Q5JXB2;Q05086;Q7Z6Z7;P61088;Q14669;Q9NR09;Q96PU5;P62256;Q969T4;Q9H8T0;P63279;O95071;Q9H4P4;Q15386;P51668;O00308;Q9NPD8;O95714;Q969M7;P61077;Q13404;Q9Y2X8;P62837;Q9H0M0;Q9UII4;Q7Z7E8;Q5T447;P68036;Q15819}

2193 [Cluster 200]GO:0010521+F molecular\_function [name] telomerase inhibitor activity [def] "Stops, prevents or reduces the activity of a telomerase. Telomerase catalyzes the reaction

2194 Pathogen[ Q2Q067] interacts with 2 human partners: {P54274;Q96BK5}

2195 Pathogen[ P0C214] interacts with 2 human partners: {Q96BK5;P54274}

2196 Pathogen[ P03346] interacts with 3 human partners: {P54274;Q9NUX5;Q96BK5}

2197 Pathogen[ Q85601] interacts with 2 human partners: {Q96BK5;P54274}

2198 Pathogen[ P14079] interacts with 3 human partners: {P54274;Q9NUX5;Q96BK5}

2199 Pathogen[ P03383] interacts with 2 human partners: {Q96BK5;P54274}

2200 Pathogen[ P03410] interacts with 3 human partners: {Q9NUX5;P54274;Q96BK5}

2201 Pathogen[ P14075] interacts with 2 human partners: {Q96BK5;P54274}

2202 Pathogen[ P0C206] interacts with 3 human partners: {Q96BK5;P54274;Q9NUX5}

2203 Pathogen[ P03363] interacts with 3 human partners: {Q96BK5;P54274;Q9NUX5}

2204 [Cluster 201]GO:0017056+F molecular\_function [name] structural constituent of nuclear pore [def] "The action of a molecule that contributes to the structural integrity of the nuclear pore complex." [GOC

2205 Pathogen[ Q2Q067] interacts with 3 human partners: {P52948;O75694;P37198}

2206 Pathogen[ P0C214] interacts with 3 human partners: {O75694;P37198;P52948}

2207 Pathogen[ P03346] interacts with 5 human partners: {Q9H1M0;O75694;P37198;Q9BTX1;P52948}

2208 Pathogen[ Q85601] interacts with 2 human partners: {O75694;P52948}

2209 Pathogen[ P14079] interacts with 4 human partners: {P37198;O75694;Q9BTX1;P52948}

2210 Pathogen[ P03383] interacts with 4 human partners: {P52948;Q9BTX1;P37198;O75694}

2211 Pathogen[ P03410] interacts with 4 human partners: {Q9H1M0;P52948;O75694;Q9BTX1}

2212 Pathogen[ P14075] interacts with 4 human partners: {Q9BTX1;P37198;O75694;P52948}

2213 Pathogen[ P0C206] interacts with 2 human partners: {O75694;Q9BTX1}

2214 Pathogen[ P03363] interacts with 4 human partners: {O75694;Q9BTX1;P52948;P37198}

2215 [Cluster 202]GO:0061133+F molecular\_function [name] endopeptidase activator activity [def] "Increases the activity of an endopeptidase, any enzyme that hydrolyzes nonterminal peptide bonds in polypeptides." [GOC

2216 Pathogen[ Q2Q067] interacts with 2 human partners: {P61289;Q16186}

2217 Pathogen[ P0C214] interacts with 1 human partners: {Q16186}

2218 Pathogen[ P03346] interacts with 2 human partners: {P61289;Q16186}

2219 Pathogen[ Q85601] interacts with 2 human partners: {P61289;Q16186}

2220 Pathogen[ P14079] interacts with 3 human partners: {O00487;Q16186;P61289}

2221 Pathogen[ P03383] interacts with 2 human partners: {P61289;Q16186}

2222 Pathogen[ P03410] interacts with 2 human partners: {Q16186;P61289}

2223 Pathogen[ P14075] interacts with 2 human partners: {Q16186;P61289}

2224 Pathogen[ P0C206] interacts with 2 human partners: {P61289;Q16186}

2225 Pathogen[ P03363] interacts with 2 human partners: {Q16186;P61289}

2226 [Cluster 203]GO:0097100+F molecular\_function [name] supercoiled DNA binding [def] "Interacting selectively and non-covalently with supercoiled DNA. During replication and transcription, template DNA is negatively supercoiled in the receding downstream DNA and positively supercoiled in the approaching downstream DNA." [GOC

2227 Pathogen[ Q2Q067] interacts with 1 human partners: {O75475}

2228 Pathogen[ P0C214] interacts with 1 human partners: {O75475}

2229 Pathogen[ P03346] interacts with 1 human partners: {O75475}

2230 Pathogen[ Q85601] interacts with 1 human partners: {O75475}

2231 Pathogen[ P14079] interacts with 1 human partners: {O75475}

2232 Pathogen[ P03383] interacts with 1 human partners: {O75475}



2233 Pathogen[ P03410] interacts with 1 human partners:{075475}

2234 Pathogen[ P14075] interacts with 1 human partners:{075475}

2235 Pathogen[ P0C206] interacts with 1 human partners:{075475}

2236 Pathogen[ P03363] interacts with 1 human partners:{075475}

2237 [Cluster 204]GO:0008650+F molecular\_function [name] rRNA  
(uridine-2'-O-)-methyltransferase activity [def] "Catalysis of the reaction

2238 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UI43}

2239 Pathogen[ P0C214] interacts with 1 human partners:{Q9UI43}

2240 Pathogen[ P03346] interacts with 1 human partners:{Q9UI43}

2241 Pathogen[ Q85601] interacts with 1 human partners:{Q9UI43}

2242 Pathogen[ P14079] interacts with 1 human partners:{Q9UI43}

2243 Pathogen[ P03383] interacts with 1 human partners:{Q9UI43}

2244 Pathogen[ P03410] interacts with 1 human partners:{Q9UI43}

2245 Pathogen[ P14075] interacts with 1 human partners:{Q9UI43}

2246 Pathogen[ P0C206] interacts with 1 human partners:{Q9UI43}

2247 Pathogen[ P03363] interacts with 1 human partners:{Q9UI43}

2248 [Cluster 205]GO:0019789+F molecular\_function [name] SUMO ligase activity [def]  
"Catalysis of ATP-dependent isopeptide bond formation between the carboxy-terminal  
glycine residues of the small ubiquitin-related modifier SUMO and a substrate lysine  
residue, leading to the formation of predominately monosumoylated proteins with modified  
function." [GOC

2249 Pathogen[ Q2Q067] interacts with 9 human  
partners:{075925;Q9NS56;P63279;O75928;P63165;P55854;Q9Y6X2;Q96MF7;Q8N2W9}

2250 Pathogen[ P0C214] interacts with 9 human  
partners:{Q9Y6X2;O75925;Q9NS56;Q8N2W9;P63279;P55854;P63165;Q96MF7;O75928}

2251 Pathogen[ P03346] interacts with 9 human  
partners:{Q96MF7;P55854;P63279;O75925;Q9NS56;P63165;Q8N2W9;Q9Y6X2;O75928}

2252 Pathogen[ Q85601] interacts with 9 human  
partners:{Q9NS56;O75928;Q9Y6X2;Q8N2W9;P63279;P55854;P63165;O75925;Q96MF7}

2253 Pathogen[ P14079] interacts with 9 human  
partners:{Q8N2W9;P63279;Q96MF7;O75928;Q9Y6X2;P63165;P55854;Q9NS56;O75925}

2254 Pathogen[ P03383] interacts with 8 human  
partners:{O75925;Q8N2W9;Q96MF7;P55854;P63165;Q9Y6X2;P63279;O75928}

2255 Pathogen[ P03410] interacts with 8 human  
partners:{P55854;O75925;P63165;Q9Y6X2;O75928;Q8N2W9;Q96MF7;P63279}

2256 Pathogen[ P14075] interacts with 8 human  
partners:{P63165;O75925;Q8N2W9;P63279;P55854;O75928;Q96MF7;Q9Y6X2}

2257 Pathogen[ P0C206] interacts with 7 human  
partners:{Q9NS56;O75925;Q8N2W9;Q9Y6X2;P55854;Q96MF7;P63165}

2258 Pathogen[ P03363] interacts with 8 human  
partners:{Q9Y6X2;P63165;O75925;P63279;Q8N2W9;Q96MF7;P55854;O75928}

2259 [Cluster 206]GO:0004003+F molecular\_function [name] ATP-dependent DNA helicase  
activity [def] "Catalysis of the reaction

2260 Pathogen[ Q2Q067] interacts with 9 human  
partners:{P49959;O60934;Q08211;Q12873;P12956;Q14839;O14646;Q86WJ1;P13010}

2261 Pathogen[ P0C214] interacts with 9 human  
partners:{P49959;P13010;Q12873;Q14566;Q08211;O14646;Q86WJ1;P12956;Q14839}

2262 Pathogen[ P03346] interacts with 13 human  
partners:{P46063;P12956;P13010;O14646;Q08211;Q14566;P49959;P33991;O60934;Q12873;Q1328  
3;Q86WJ1;Q14839}

2263 Pathogen[ Q85601] interacts with 11 human  
partners:{P49959;O14646;Q08211;Q14566;Q12873;Q86WJ1;P19447;Q14839;P13010;P12956;O6093  
4}

2264 Pathogen[ P14079] interacts with 11 human  
partners:{Q14566;P13010;O14646;O60934;Q08211;Q12873;P12956;Q86WJ1;Q14839;Q96FC9;P1944  
7}

2265 Pathogen[ P03383] interacts with 5 human  
partners:{Q14839;P13010;O14646;Q12873;P12956}

2266 Pathogen[ P03410] interacts with 12 human  
partners:{P49959;Q12873;O14646;P12956;P19447;Q86WJ1;P13010;Q96FC9;Q14566;Q14839;Q0821  
1;O60934}

2267 Pathogen[ P14075] interacts with 5 human  
partners:{O14646;P12956;Q14839;P13010;Q12873}

2268 Pathogen[ P0C206] interacts with 12 human  
partners:{P13010;P49959;Q08211;O60934;P19447;Q14839;O14646;Q86WJ1;P12956;Q14566;Q9BX6  
3;Q12873}

2269 Pathogen[ P03363] interacts with 10 human  
partners:{P12956;Q9BX63;P13010;Q13283;Q14839;P46063;O14646;Q12873;Q86WJ1;Q08211}

2270 [Cluster 207]GO:0032184+F molecular\_function [name] SUMO polymer binding [def]  
"Interacting selectively and non-covalently with a polymer of the small ubiquitin-like  
protein SUMO." [GOC

2271 Pathogen[ Q2Q067] interacts with 1 human partners:{P78317}

2272 Pathogen[ P0C214] interacts with 1 human partners:{P78317}

2273 Pathogen[ P03346] interacts with 1 human partners:{P78317}

2274 Pathogen[ Q85601] interacts with 1 human partners:{P78317}

2275 Pathogen[ P14079] interacts with 1 human partners:{P78317}

2276 Pathogen[ P03383] interacts with 1 human partners:{P78317}  
2277 Pathogen[ P03410] interacts with 1 human partners:{P78317}  
2278 Pathogen[ P14075] interacts with 1 human partners:{P78317}  
2279 Pathogen[ P0C206] interacts with 1 human partners:{P78317}  
2280 Pathogen[ P03363] interacts with 1 human partners:{P78317}  
2281 [Cluster 208]GO:0016783+F molecular\_function [name] sulfurtransferase activity [def]  
"Catalysis of the transfer of sulfur atoms from one compound (donor) to another  
(acceptor)." [GOC  
2282 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BTM9}  
2283 Pathogen[ P0C214] interacts with 2 human partners:{Q9BTM9;O95396}  
2284 Pathogen[ P03346] interacts with 1 human partners:{Q9BTM9}  
2285 Pathogen[ Q85601] interacts with 1 human partners:{Q9BTM9}  
2286 Pathogen[ P14079] interacts with 2 human partners:{O75648;Q9BTM9}  
2287 Pathogen[ P03383] interacts with 1 human partners:{Q9BTM9}  
2288 Pathogen[ P03410] interacts with 2 human partners:{O75648;Q9BTM9}  
2289 Pathogen[ P14075] interacts with 2 human partners:{Q9BTM9;O75648}  
2290 Pathogen[ P0C206] interacts with 2 human partners:{O95396;Q9BTM9}  
2291 Pathogen[ P03363] interacts with 1 human partners:{Q9BTM9}  
2292 [Cluster 209]GO:0004719+F molecular\_function [name] protein-L-isoaspartate  
(D-aspartate) O-methyltransferase activity [def] "Catalysis of the reaction  
2293 Pathogen[ Q2Q067] interacts with 1 human partners:{P22061}  
2294 Pathogen[ P0C214] interacts with 1 human partners:{P22061}  
2295 Pathogen[ P03346] interacts with 3 human partners:{P22061;Q96MG8;Q9NV79}  
2296 Pathogen[ Q85601] interacts with 1 human partners:{P22061}  
2297 Pathogen[ P14079] interacts with 2 human partners:{Q96MG8;Q9NV79}  
2298 Pathogen[ P03383] interacts with 1 human partners:{P22061}  
2299 Pathogen[ P03410] interacts with 3 human partners:{Q9NV79;Q96MG8;P22061}  
2300 Pathogen[ P14075] interacts with 1 human partners:{P22061}  
2301 Pathogen[ P0C206] interacts with 3 human partners:{P22061;Q9NV79;Q96MG8}  
2302 Pathogen[ P03363] interacts with 2 human partners:{Q96MG8;Q9NV79}  
2303 [Cluster 210]GO:0019776+F molecular\_function [name] Atg8 ligase activity [def]  
"Catalysis of the covalent attachment of the ubiquitin-like protein Atg8 to substrate  
molecules\_phosphatidylethanolamine is a known substrate." [GOC  
2304 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NT62}  
2305 Pathogen[ P0C214] interacts with 1 human partners:{Q9NT62}  
2306 Pathogen[ P03346] interacts with 1 human partners:{Q9NT62}  
2307 Pathogen[ Q85601] interacts with 1 human partners:{Q9NT62}  
2308 Pathogen[ P14079] interacts with 1 human partners:{Q9NT62}  
2309 Pathogen[ P03383] interacts with 1 human partners:{Q9NT62}  
2310 Pathogen[ P03410] interacts with 1 human partners:{Q9NT62}  
2311 Pathogen[ P14075] interacts with 1 human partners:{Q9NT62}  
2312 Pathogen[ P0C206] interacts with 1 human partners:{Q9NT62}  
2313 Pathogen[ P03363] interacts with 1 human partners:{Q9NT62}  
2314 [Cluster 211]GO:0051536+F molecular\_function [name] iron-sulfur cluster binding [def]  
"Interacting selectively and non-covalently with an iron-sulfur cluster, a combination of  
iron and sulfur atoms." [GOC  
2315 Pathogen[ Q2Q067] interacts with 11 human  
partners:{Q9H9T3;Q9UIF7;Q9UMS0;O75251;O75306;P21912;P78549;P23396;P21399;P48200;Q9H1K  
1}  
2316 Pathogen[ P0C214] interacts with 19 human  
partners:{O75306;P23396;P28331;Q9HA92;P48200;Q9H6Q4;Q8WXG1;Q99798;Q9H1K1;Q9UMS0;Q9UIF  
7;Q9H9T3;O75251;P78549;P22830;P21912;P21399;Q9Y5Y2;Q96NN9}  
2317 Pathogen[ P03346] interacts with 14 human  
partners:{Q9NS18;Q9H1K1;Q9UMS0;Q9UIF7;P21912;Q9H9T3;O76003;P48200;Q9Y5Y2;P78549;P2339  
6;O75251;O75306;P21399}  
2318 Pathogen[ Q85601] interacts with 13 human  
partners:{P21399;O75306;Q9H9T3;P23396;P21912;P48200;Q9UMS0;Q9H6Q4;O76003;Q9UIF7;Q9Y5Y  
2;Q9H1K1;P78549}  
2319 Pathogen[ P14079] interacts with 25 human  
partners:{Q5VV42;Q6P4F2;P23396;Q9UIF7;P10109;Q9NZ45;P21399;Q9H1K1;O75306;Q86U28;Q9BUE  
6;P78549;Q9UMS0;Q9H9T3;Q9H6Q4;O75251;P48200;Q9Y5Y2;Q9HA92;P22830;O76003;Q96SZ6;Q96FC9  
;Q8WXG1;P21912}  
2320 Pathogen[ P03383] interacts with 8 human  
partners:{O75251;Q9H1K1;P48200;O75306;Q9H6Q4;Q9UMS0;P23396;Q9H9T3}  
2321 Pathogen[ P03410] interacts with 23 human  
partners:{O76003;O75251;P23396;Q6P4F2;Q9Y5Y2;Q9H9T3;Q9H6Q4;P78549;Q9H1K1;Q8WXG1;P2139  
9;Q9UMS0;Q9HA92;P22830;P21912;O75306;Q96FC9;P10109;Q86U28;P48200;Q9NZ45;Q9UIF7;Q9BUE6  
}  
2322 Pathogen[ P14075] interacts with 8 human  
partners:{Q9UMS0;Q9UIF7;O75306;O75251;P23396;Q9H9T3;P48200;Q9H1K1}  
2323 Pathogen[ P0C206] interacts with 22 human  
partners:{Q9H1K1;Q9HA92;Q9NS18;O75251;Q9H9T3;O75306;Q86U28;Q9Y5Y2;P48200;P23396;P2283  
0;O76003;Q9H6Q4;Q99798;P21912;Q8WXG1;Q9UMS0;Q9UIF7;Q9BX63;P21399;Q9BUE6;P78549}  
2324 Pathogen[ P03363] interacts with 9 human  
partners:{Q9BX63;P23396;Q9UMS0;O76003;P48200;Q9UIF7;Q9H1K1;Q9Y5Y2;Q9H9T3}  
2325 [Cluster 212]GO:0016491+F molecular\_function [name] oxidoreductase activity [def]

- "Catalysis of an oxidation-reduction (redox) reaction, a reversible chemical reaction in which the oxidation state of an atom or atoms within a molecule is altered. One substrate acts as a hydrogen or electron donor and becomes oxidized, while the other acts as hydrogen or electron acceptor and becomes reduced." [GOC
- 2326 Pathogen[ Q2Q067] interacts with 52 human partners: {P02792;Q9ULD0;Q9UPP1;Q9NXW9;P09917;P07195;Q9BUP3;P31040;Q6NS38;O75151;P49419;P15121;O75489;P21953;Q8NHM5;Q9NZC7;Q9BV57;P27695;Q06830;Q9BU89;P31350;Q96A73;P15559;Q7LG56;O00625;P29474;Q9NWT6;O75251;Q96Q83;O75306;P04406;P40925;P21912;Q96KS0;O75164;Q9H6W3;Q13363;Q9BYZ2;Q9NNW7;Q9H6Z9;Q8N371;Q9BPX1;O95831;O14556;P40926;Q9GZT9;P00338;Q15652;Q7LBC6;Q16836;P07864;Q9UHB4}
- 2327 Pathogen[ P0C214] interacts with 99 human partners: {P29474;P02794;Q8N371;Q8IX04;P49419;O75306;P09417;P08294;P52209;P27695;P09917;O75874;P11413;Q9NVH6;Q8NCN5;Q8N335;Q9BU89;P31350;Q13363;P11177;P07864;Q86XF0;Q5I0G3;P28331;P12694;P42898;Q9BV57;Q96KS0;Q9NNW7;P48735;Q96A73;P35270;Q9HA92;O75164;P40939;O75151;Q6ZMR3;Q99807;P40926;P16083;O14556;Q9Y2S2;P55789;Q06830;Q9NZC7;Q8TBF2;Q9UJ68;P15121;P00374;Q9UI17;Q9BUP3;P50213;Q16881;Q9H6Z9;Q6NS38;O43837;P21953;O14832;Q9NWM0;Q9H6W3;Q86WU2;Q15652;Q9GZT9;P30043;Q9ULD0;Q9BPX1;P23921;Q9NXW9;P09622;Q9UL12;P07327;O75489;Q9UHB4;P02792;O75251;Q96BT7;O00625;Q16698;P36551;Q9BYZ2;Q7LG56;Q9Y3D2;P48163;P21912;Q96Q83;P15559;P04406;P11586;Q7LBC6;Q9UPP1;P13804;Q16798;P07195;P51553;P18054;Q96NN9;Q9NWT6;P21695;Q8NHM5}
- 2328 Pathogen[ P03346] interacts with 62 human partners: {P02792;Q96A73;P16083;P31040;P04406;Q9UBK8;P29474;Q16836;O75489;Q9BUP3;Q7LBC6;Q9UHB4;Q9BV57;Q9BPX1;Q8NCN5;P15121;P18054;Q86WU2;Q9ULD0;P02794;Q9BYW2;P15559;Q9NXW9;Q15652;O75151;P21912;P09917;P31350;P49419;Q7LG56;O14556;Q9NZC7;O75164;Q9GZT9;P40926;Q9UPP1;O95831;P00338;Q96Q83;Q96BT7;Q8N371;Q06830;P07195;Q96KS0;O75251;B2RXH2;Q9UGL1;Q13363;Q9BU89;O00625;P56545;O75306;P27695;Q9NWT6;Q8NHM5;P40925;Q9H6W3;Q8IWF2;Q8TDZ2;Q9H6Z9;Q9BYZ2;Q9NNW7}
- 2329 Pathogen[ Q85601] interacts with 50 human partners: {Q9NZC7;Q96A73;Q9UHB4;Q9H6Z9;O95831;Q8N371;Q6ZMR3;P09917;O75151;O75306;Q9BPX1;P21912;Q9NWT6;Q13363;P21953;P31350;Q9BV57;Q9H6W3;Q9NXW9;P07864;Q7LG56;O14556;Q9GZT9;Q96KS0;Q9BYZ2;Q8NHM5;P31040;Q9UPP1;P15121;P29474;Q6NS38;P40925;Q06830;P07195;Q96Q83;P02792;Q16836;O75164;O00625;P04406;Q15652;Q7LBC6;Q9ULD0;Q9BU89;P02794;P00338;Q9BUP3;P27695;P40926;P49419}
- 2330 Pathogen[ P14079] interacts with 90 human partners: {O00625;Q9UHB4;Q86XF0;P00374;P48775;Q9GZT9;O75151;Q99807;P21953;Q8TDZ2;P00338;Q9C0B1;Q96SZ5;Q8IVL6;Q9NXW9;P13498;P16083;P52209;Q96A73;Q9NZV6;Q6P6C2;O75306;P00395;P00403;Q93099;Q5SRE7;Q9NVH6;P13804;Q8NHM5;P31350;P15559;Q15652;Q6N021;Q7LG56;P07195;Q9BUP3;Q9H6W3;O95831;Q6ZMR3;Q86WU2;Q9NNW7;Q9BU89;Q9NZC7;P31040;Q8IUH2;Q9UPP1;Q9NWT6;O14832;Q6NS38;Q3KRA9;O75251;Q9H6Z9;Q9UL12;P00156;P07864;Q9HA92;P55789;P27695;Q9Y471;P09917;Q8NBK3;P02794;Q9Y3D2;Q9UI17;O75489;Q8TBF2;P03923;Q16878;Q9BT30;P03897;Q8NCN5;Q8N371;P21695;P36551;P40925;Q96Q83;Q9BYZ2;O43151;Q96KS0;Q9UJ68;P03901;P03886;Q9BV57;Q9NVS9;Q9ULD0;Q7LBC6;Q16836;P42898;P04406;P21912}
- 2331 Pathogen[ P03383] interacts with 40 human partners: {P02794;Q9NWT6;P29474;P40926;O75251;Q9UHB4;P00338;Q9BYZ2;P31040;P07864;Q96A73;Q16836;O75489;O95831;P40925;O75151;Q96KS0;Q9H6W3;O75306;P31350;Q9BV57;O75164;Q9ULD0;Q15652;O14556;P07195;Q6ZMR3;O00625;Q9H6Z9;P04406;Q9BUP3;Q9BU89;P27695;Q8N371;Q96Q83;Q7LBC6;Q9UPP1;Q13363;P49419;Q9BPX1}
- 2332 Pathogen[ P03410] interacts with 91 human partners: {P15559;Q3KRA9;Q9UPP1;Q9H6W3;Q9BYZ2;Q9BU89;P02794;P31350;O14556;Q6P6C2;P13804;Q9NWT6;Q9BPX1;Q9ULD0;Q15652;Q9NVH6;Q96KS0;Q9UI17;Q9H6Z9;Q9NXW9;O75251;Q8TDZ2;P00374;Q9NZC7;P12694;Q6ZMR3;Q6N021;P21953;Q96Q83;Q6NS38;P07195;Q7LBC6;P36551;Q9GZT9;P52209;Q93099;O00625;O75151;P29474;Q9UJ68;P48775;Q9Y3D2;P03886;P00156;Q86XF0;P00338;Q9HA92;Q9UL12;P16083;P31040;P49419;Q9BUP3;O75489;P42898;O95831;P21912;O14832;P04406;Q9UHB4;O43151;Q16836;Q9NVS9;Q9BT30;P03897;P40926;Q8NCN5;P27695;Q9Y471;O75306;P09917;P00403;P07864;P40925;Q99807;P03901;Q9C0B1;P03923;P02792;Q8N371;P55789;O75164;P23921;Q9BV57;Q8TBF2;Q96A73;Q7LG56;Q06830;Q96SZ5;P21695;Q9NNW7;Q86WU2}
- 2333 Pathogen[ P14075] interacts with 46 human partners: {Q9NVH6;P29474;Q9BUP3;P40925;Q96KS0;Q9GZT9;P31350;Q8N371;Q96Q83;P27695;Q9BV57;Q9UPP1;Q15652;Q7LBC6;P40926;Q8NCN5;O00625;P15559;Q9UHB4;P31040;O75306;P07195;Q9BU89;P04406;P49419;Q9NVS9;O95831;O75251;Q16836;P02794;Q9H6W3;P07864;Q9NWT6;P55789;Q9ULD0;Q96A73;P00338;O14832;Q9BYZ2;Q13363;O75489;Q9NXW9;O75151;O14556;O75164;Q9H6Z9}
- 2334 Pathogen[ P0C206] interacts with 71 human partners: {P27695;Q8N371;Q9NZV6;P07195;Q96Q83;P09917;Q6ZMR3;P07864;P55789;Q9HA92;Q9BUP3;P50213;O75251;Q96KS0;Q9GZT9;O43151;Q9ULD0;P02794;O75306;Q3KRA9;Q6NS38;Q16836;P15559;Q9UPP1;O14832;Q8TBF2;Q96A73;Q9NXW9;Q9NVH6;P36551;Q86WU2;Q7LBC6;O00625;P21953;Q7LG56;Q9NNW7;O75151;Q9BPX1;Q9NWT6;O95831;O14556;Q9Y3D2;Q9H6W3;Q9UJ68;P40925;Q99807;P04406;P40926;Q8NHM5;P31040;Q9BV57;P02792;Q15652;P29474;O75489;Q9NZC7;Q9H6Z9;O75164;Q9BYZ2;P49419;P15121;Q13363;Q9UHB4;P21912;Q06830;Q8TDZ2;Q9BU89;Q8NCN5;P00338;P31350;P16083}
- 2335 Pathogen[ P03363] interacts with 25 human partners: {Q16836;P29474;Q9BUP3;P49419;P31040;Q9UHB4;P40925;Q9NNW7;Q9H6Z9;Q9ULD0;Q96BT7;P56545;O75164;Q9BYZ2;Q15652;Q9BPX1;Q96Q83;P04406;Q9BV57;O00625;Q13363;O14556;Q96A73;P02794;O95831}
- 2336 [Cluster 213]GO:0004004+F molecular\_function [name] ATP-dependent RNA helicase activity [def] "Catalysis of the reaction
- 2337 Pathogen[ Q2Q067] interacts with 5 human partners: {Q92900;P38919;Q13838;Q9UHI6;Q08211}

2338 Pathogen[ P0C214] interacts with 6 human partners:{Q92900;P38919;Q9NVP1;Q9UHI6;Q08211;Q13838}

2339 Pathogen[ P03346] interacts with 9 human partners:{P38919;Q9NVP1;Q08211;Q9BUQ8;Q9UHI6;Q13838;Q14562;Q13283;Q92900}

2340 Pathogen[ Q85601] interacts with 6 human partners:{Q08211;P38919;Q13838;Q9NVP1;Q9UHI6;Q92900}

2341 Pathogen[ P14079] interacts with 5 human partners:{Q13838;Q9UHI6;Q08211;Q92900;Q9NVP1}

2342 Pathogen[ P03383] interacts with 4 human partners:{Q13838;Q9UHI6;P38919;Q92900}

2343 Pathogen[ P03410] interacts with 6 human partners:{Q13838;Q92900;Q9NVP1;P38919;Q9UHI6;Q08211}

2344 Pathogen[ P14075] interacts with 4 human partners:{Q92900;Q9UHI6;P38919;Q13838}

2345 Pathogen[ P0C206] interacts with 6 human partners:{Q08211;Q13838;Q9NVP1;Q92900;Q9UHI6;P38919}

2346 Pathogen[ P03363] interacts with 8 human partners:{P38919;Q92900;Q9UHI6;Q13283;Q14562;Q13838;Q9NVP1;Q08211}

2347 [Cluster 214]GO:0043522+F molecular\_function [name] leucine zipper domain binding [def] "Interacting selectively and non-covalently with a leucine zipper domain, a protein secondary structure exhibiting a periodic repetition of leucine residues at every seventh position over a distance covering eight helical turns." [GOC

2348 Pathogen[ Q2Q067] interacts with 7 human partners:{Q8IUD2;Q6P1K2;Q9NY61;P54845;O43186;Q969V6;Q96IZ0}

2349 Pathogen[ P0C214] interacts with 7 human partners:{Q96IZ0;O43186;Q6P1K2;Q9NY61;Q969V6;Q8IUD2;P54845}

2350 Pathogen[ P03346] interacts with 7 human partners:{P54845;Q8IUD2;O43186;Q969V6;Q96IZ0;Q9NY61;Q6P1K2}

2351 Pathogen[ Q85601] interacts with 6 human partners:{Q96IZ0;Q9NY61;Q969V6;P54845;Q8IUD2;Q6P1K2}

2352 Pathogen[ P14079] interacts with 6 human partners:{Q9NY61;Q8IUD2;Q969V6;P54845;Q96IZ0;Q6P1K2}

2353 Pathogen[ P03383] interacts with 7 human partners:{Q9NY61;Q96IZ0;Q969V6;P54845;O43186;Q6P1K2;Q8IUD2}

2354 Pathogen[ P03410] interacts with 6 human partners:{P54845;Q9NY61;Q969V6;Q8IUD2;Q6P1K2;Q96IZ0}

2355 Pathogen[ P14075] interacts with 7 human partners:{Q9NY61;O43186;Q8IUD2;Q96IZ0;P54845;Q969V6;Q6P1K2}

2356 Pathogen[ P0C206] interacts with 6 human partners:{Q96IZ0;Q8IUD2;P54845;Q6P1K2;Q969V6;Q9NY61}

2357 Pathogen[ P03363] interacts with 7 human partners:{Q6P1K2;Q96IZ0;Q969V6;P54845;Q9NY61;O43186;Q8IUD2}

2358 [Cluster 215]GO:0004082+F molecular\_function [name] bisphosphoglycerate mutase activity [def] "Catalysis of the reaction

2359 Pathogen[ Q2Q067] interacts with 4 human partners:{Q8N0Y7;P18669;P15259;P07738}

2360 Pathogen[ P0C214] interacts with 3 human partners:{P15259;Q8N0Y7;P07738}

2361 Pathogen[ P03346] interacts with 4 human partners:{P07738;P18669;Q8N0Y7;P15259}

2362 Pathogen[ Q85601] interacts with 4 human partners:{P18669;P15259;Q8N0Y7;P07738}

2363 Pathogen[ P14079] interacts with 4 human partners:{P15259;P07738;P18669;Q8N0Y7}

2364 Pathogen[ P03383] interacts with 4 human partners:{P18669;P07738;Q8N0Y7;P15259}

2365 Pathogen[ P03410] interacts with 4 human partners:{P07738;Q8N0Y7;P15259;P18669}

2366 Pathogen[ P14075] interacts with 4 human partners:{P18669;P15259;P07738;Q8N0Y7}

2367 Pathogen[ P0C206] interacts with 4 human partners:{Q8N0Y7;P07738;P18669;P15259}

2368 Pathogen[ P03363] interacts with 3 human partners:{P18669;Q8N0Y7;P15259}

2369 [Cluster 216]GO:0016868+F molecular\_function [name] intramolecular transferase activity, phosphotransferases [def] "Catalysis of the transfer of a phosphate group from one position to another within a single molecule." [GOC

2370 Pathogen[ Q2Q067] interacts with 8 human partners:{Q8N0Y7;O95394;P36871;Q96G03;P18669;P15259;P07738;Q6PCE3}

2371 Pathogen[ P0C214] interacts with 8 human partners:{P15259;Q6PCE3;Q96G03;P36871;Q15124;O95394;Q8N0Y7;P07738}

2372 Pathogen[ P03346] interacts with 8 human partners:{P07738;P36871;Q6PCE3;P18669;Q8N0Y7;Q96G03;O95394;P15259}

2373 Pathogen[ Q85601] interacts with 9 human partners:{P18669;P15259;Q15124;P36871;O95394;Q6PCE3;Q8N0Y7;P07738;Q96G03}

2374 Pathogen[ P14079] interacts with 9 human partners:{P15259;Q15124;P07738;O95394;Q6PCE3;P18669;Q96G03;P36871;Q8N0Y7}

2375 Pathogen[ P03383] interacts with 7 human partners:{Q96G03;P18669;Q6PCE3;P07738;Q8N0Y7;O95394;P15259}

2376 Pathogen[ P03410] interacts with 9 human partners:{Q6PCE3;P36871;Q15124;P07738;Q8N0Y7;P15259;P18669;Q96G03;O95394}

2377 Pathogen[ P14075] interacts with 7 human partners:{P18669;Q96G03;Q6PCE3;O95394;P15259;P07738;Q8N0Y7}

2378 Pathogen[ P0C206] interacts with 9 human partners:{Q96G03;O95394;Q15124;Q6PCE3;Q8N0Y7;P07738;P18669;P36871;P15259}

2379 Pathogen[ P03363] interacts with 5 human partners:{P18669;Q8N0Y7;Q6PCE3;P15259;Q96G03}

2380 [Cluster 217]GO:0005123+F molecular\_function [name] death receptor binding [def]

"Interacting selectively and non-covalently with any member of the death receptor (DR) family. The DR family falls within the tumor necrosis factor receptor superfamily and is characterized by a cytoplasmic region of ~80 residues termed the death domain (DD)." [GOC

2381 Pathogen[ Q2Q067] interacts with 7 human  
partners: {P55957;Q00994;Q13158;Q9UK73;Q9HB75;Q9UKN5;Q9UKL3}

2382 Pathogen[ P0C214] interacts with 7 human  
partners: {Q9UKN5;Q13158;Q00994;P55957;Q9UKL3;Q9HB75;Q9UK73}

2383 Pathogen[ P03346] interacts with 7 human  
partners: {Q13158;P55957;Q00994;Q9UKL3;Q9HB75;Q9UKN5;Q9UK73}

2384 Pathogen[ Q85601] interacts with 7 human  
partners: {Q9UKL3;Q13158;Q9UKN5;Q9UK73;P55957;Q9HB75;Q00994}

2385 Pathogen[ P14079] interacts with 8 human  
partners: {Q00994;Q9UK73;Q9UKL3;Q13158;Q9UKN5;Q9HB75;Q99836;P55957}

2386 Pathogen[ P03383] interacts with 7 human  
partners: {Q9UKL3;Q9UK73;P55957;Q13158;Q00994;Q9UKN5;Q9HB75}

2387 Pathogen[ P03410] interacts with 7 human  
partners: {Q9HB75;P55957;Q13158;Q00994;Q9UKN5;Q9UKL3;Q9UK73}

2388 Pathogen[ P14075] interacts with 7 human  
partners: {Q9UK73;P55957;Q9HB75;Q9UKN5;Q00994;Q9UKL3;Q13158}

2389 Pathogen[ P0C206] interacts with 7 human  
partners: {Q9UK73;Q9UKL3;Q13158;Q00994;Q9UKN5;Q9HB75;P55957}

2390 Pathogen[ P03363] interacts with 7 human  
partners: {P55957;Q9UKN5;Q13158;Q9HB75;Q9UKL3;Q00994;Q9UK73}

2391 [Cluster 218]GO:0032183+F molecular\_function [name] SUMO binding [def] "Interacting selectively and non-covalently with the small ubiquitin-like protein SUMO." [GOC

2392 Pathogen[ Q2Q067] interacts with 2 human partners: {000257;Q13569}

2393 Pathogen[ P0C214] interacts with 2 human partners: {000257;Q13569}

2394 Pathogen[ P03346] interacts with 4 human partners: {095714;000257;Q9UHP3;Q13569}

2395 Pathogen[ Q85601] interacts with 3 human partners: {095714;Q13569;000257}

2396 Pathogen[ P14079] interacts with 3 human partners: {000257;Q5W0Q7;Q13569}

2397 Pathogen[ P03383] interacts with 2 human partners: {000257;Q13569}

2398 Pathogen[ P03410] interacts with 2 human partners: {Q13569;000257}

2399 Pathogen[ P14075] interacts with 2 human partners: {000257;Q13569}

2400 Pathogen[ P0C206] interacts with 4 human partners: {Q13569;Q9UHP3;000257;095714}

2401 Pathogen[ P03363] interacts with 4 human partners: {Q9UHP3;Q13569;095714;000257}

2402 [Cluster 219]GO:0003730+F molecular\_function [name] mRNA 3'-UTR binding [def] "Interacting selectively and non-covalently with the 3' untranslated region of an mRNA molecule." [GOC

2403 Pathogen[ Q2Q067] interacts with 10 human  
partners: {000425;Q13148;Q9Y6M1;Q10570;Q9Y2T7;Q9Y2V2;P16989;095453;Q8NC51;Q96T21}

2404 Pathogen[ P0C214] interacts with 14 human  
partners: {P51114;P16989;095453;Q9Y2V2;000425;Q10570;Q9NZI8;Q9Y2T7;Q96T21;Q15287;Q9Y6M1;Q8NC51;Q14011;Q13148}

2405 Pathogen[ P03346] interacts with 16 human  
partners: {Q8NC51;Q9Y2V2;Q14011;Q9Y6M1;000425;Q13148;Q9NZI8;Q96T21;P16989;095453;Q9BWF3;Q12926;Q15287;Q9Y2T7;P51114;Q10570}

2406 Pathogen[ Q85601] interacts with 12 human  
partners: {Q9Y2T7;Q8NC51;Q13148;Q96T21;Q15287;Q9Y6M1;095453;Q10570;Q9Y2V2;000425;P16989;P51114}

2407 Pathogen[ P14079] interacts with 12 human  
partners: {Q15287;Q13148;Q10570;095453;Q9Y2T7;Q96T21;P16989;Q8NC51;Q9Y6M1;Q14011;000425;Q9Y2V2}

2408 Pathogen[ P03383] interacts with 10 human  
partners: {P16989;Q15287;Q10570;Q96T21;Q9Y2T7;000425;Q13148;Q9Y2V2;095453;Q8NC51}

2409 Pathogen[ P03410] interacts with 13 human  
partners: {Q96T21;Q10570;P16989;Q15287;Q9Y2V2;Q13148;095453;Q14011;P51114;000425;Q9Y2T7;Q8NC51;Q9Y6M1}

2410 Pathogen[ P14075] interacts with 10 human  
partners: {095453;P16989;Q8NC51;Q96T21;Q9Y2V2;Q13148;Q9Y2T7;Q15287;000425;Q10570}

2411 Pathogen[ P0C206] interacts with 13 human  
partners: {Q15287;095453;Q9Y2V2;Q14011;P51114;P16989;Q13148;Q9Y6M1;Q9Y2T7;Q8NC51;Q96T21;000425;Q10570}

2412 Pathogen[ P03363] interacts with 18 human  
partners: {Q10570;Q8NC51;095453;Q13148;Q9Y2V2;000425;Q9Y6M1;Q9BWF3;Q96T21;Q15287;Q92904;Q9NZI8;Q9BX46;Q14011;P51114;P16989;Q9Y2T7;Q12926}

2413 [Cluster 220]GO:0004550+F molecular\_function [name] nucleoside diphosphate kinase activity [def] "Catalysis of the reaction

2414 Pathogen[ Q2Q067] interacts with 1 human partners: {P22392}

2415 Pathogen[ P0C214] interacts with 1 human partners: {P22392}

2416 Pathogen[ P03346] interacts with 1 human partners: {P22392}

2417 Pathogen[ Q85601] interacts with 1 human partners: {P22392}

2418 Pathogen[ P14079] interacts with 2 human partners: {P22392;Q86XW9}

2419 Pathogen[ P03383] interacts with 1 human partners: {P22392}

2420 Pathogen[ P03410] interacts with 1 human partners: {Q86XW9}

2421 Pathogen[ P14075] interacts with 1 human partners: {P22392}

2422 Pathogen[ P0C206] interacts with 2 human partners: {P22392;Q86XW9}

2423 Pathogen[ P03363] interacts with 1 human partners:{Q86XW9}

2424 [Cluster 221]GO:0030337+F molecular\_function [name] DNA polymerase processivity factor activity [def] "An enzyme regulator activity that increases the processivity of polymerization by DNA polymerase, by allowing the polymerase to move rapidly along DNA while remaining topologically bound to it." [GOC

2425 Pathogen[ Q2Q067] interacts with 2 human partners:{P12004;Q96QE5}

2426 Pathogen[ P0C214] interacts with 1 human partners:{Q96QE5}

2427 Pathogen[ P03346] interacts with 2 human partners:{P12004;Q96QE5}

2428 Pathogen[ Q85601] interacts with 2 human partners:{Q96QE5;P12004}

2429 Pathogen[ P14079] interacts with 1 human partners:{P12004}

2430 Pathogen[ P03383] interacts with 1 human partners:{Q96QE5}

2431 Pathogen[ P03410] interacts with 2 human partners:{Q96QE5;P12004}

2432 Pathogen[ P14075] interacts with 1 human partners:{Q96QE5}

2433 Pathogen[ P0C206] interacts with 2 human partners:{Q96QE5;P12004}

2434 Pathogen[ P03363] interacts with 1 human partners:{Q96QE5}

2435 [Cluster 222]GO:0004812+F molecular\_function [name] aminoacyl-tRNA ligase activity [def] "Catalysis of the formation of aminoacyl-tRNA from ATP, amino acid, and tRNA with the release of diphosphate and AMP." [ISBN

2436 Pathogen[ Q2Q067] interacts with 19 human partners:{O95363;P23381;P49591;Q9Y285;Q15046;Q9NSD9;Q5T160;Q96I59;O43776;P41252;P07814;P54136;Q6PI48;Q9HA77;Q9BW92;P41250;P49589;Q9P2J5;P14868}

2437 Pathogen[ P0C214] interacts with 38 human partners:{P41250;P49589;Q9NSE4;Q7L3T8;O95363;Q9UGM6;Q96I59;Q9NP81;P12081;P23381;P49590;P07814;Q9Y285;P41252;Q5JPH6;O43776;Q15031;P14868;P49591;P56192;P26639;P54577;A2RTX5;Q9HA77;P49588;Q96GW9;Q5T160;P47897;Q9BW92;Q6PI48;Q5D0E6;Q9NSD9;P26640;Q15046;Q5ST30;Q9Y2Z4;Q9P2J5}

2438 Pathogen[ P03346] interacts with 11 human partners:{P23381;P07814;O43776;P41252;P41250;Q9Y285;Q9P2J5;P54136;P14868;P49589;Q6PI48}

2439 Pathogen[ Q85601] interacts with 22 human partners:{P54136;Q9NSD9;P26639;P14868;P49589;Q9P2J5;P07814;P23381;Q15046;O43776;Q9BW92;Q9Y285;Q9HA77;P41250;Q5T160;Q5D0E6;A2RTX5;Q96I59;O95363;P47897;Q6PI48;P41252}

2440 Pathogen[ P14079] interacts with 35 human partners:{Q9Y285;P23381;P26639;Q96GW9;Q9P2J5;Q7L3T8;Q9BW92;P54136;Q15031;Q5T160;Q5ST30;Q9NP81;P47897;O95363;P49591;A2RTX5;P14868;Q9HA77;O43776;Q5JPH6;P49589;Q15046;P41252;P41250;Q96I59;P26640;P56192;Q9NSD9;Q9Y2Z4;Q9UGM6;Q9NSE4;Q5D0E6;P49588;Q6PI48;P07814}

2441 Pathogen[ P03383] interacts with 27 human partners:{Q9Y285;Q9P2J5;P14868;Q5D0E6;Q5JPH6;P49589;Q5T160;Q15031;Q9NP81;P23381;Q96I59;Q15046;A2RTX5;Q9Y2Z4;O95363;P07814;Q96GW9;Q9HA77;O43776;Q6PI48;P41250;P41252;P54136;Q9NSD9;P49591;Q7L3T8;Q9BW92}

2442 Pathogen[ P03410] interacts with 34 human partners:{Q9Y285;Q9HA77;Q9NSE4;P56192;P49589;Q5ST30;Q9BW92;P49588;P54136;P23381;Q7L3T8;O43776;P47897;P14868;Q5D0E6;Q9NSD9;Q9P2J5;P49591;P26639;Q96I59;P41250;Q15046;Q5JPH6;Q9UGM6;P41252;Q9Y2Z4;P26640;Q96GW9;P07814;Q9NP81;A2RTX5;O95363;Q6PI48;Q5T160}

2443 Pathogen[ P14075] interacts with 30 human partners:{Q9Y2Z4;P54136;P41250;Q5D0E6;P23381;Q9NSD9;P41252;O95363;Q96GW9;Q9HA77;Q9NP81;Q9Y285;Q7L3T8;P56192;A2RTX5;Q9BW92;O43776;P14868;Q5T160;Q9P2J5;P26639;Q6PI48;Q96I59;P49589;Q5JPH6;Q15046;Q9NSE4;Q15031;P49591;P07814}

2444 Pathogen[ P0C206] interacts with 34 human partners:{P49589;O95363;Q9NSE4;P07814;Q9Y2Z4;P41252;Q6PI48;Q5ST30;A2RTX5;Q9UGM6;Q5JPH6;Q9NP81;Q9HA77;P41250;P26640;P49591;O43776;Q9Y285;Q9NSD9;Q5D0E6;Q5T160;Q9BW92;P56192;P54136;P26639;Q15031;Q7L3T8;Q9P2J5;P23381;P47897;P14868;Q96GW9;Q96I59;Q15046}

2445 Pathogen[ P03363] interacts with 23 human partners:{Q9Y2Z4;P41252;Q9NSD9;A2RTX5;Q96I59;P14868;P49589;P41250;P47897;Q5JPH6;O43776;P23381;P54136;Q6PI48;O95363;Q9P2J5;Q9BW92;P49591;Q9Y285;Q7L3T8;Q15031;P07814;Q5T160}

2446 [Cluster 223]GO:0008409+F molecular\_function [name] 5'-3' exonuclease activity [def] "Catalysis of the hydrolysis of ester linkages within nucleic acids by removing nucleotide residues from the 5' end." [GOC

2447 Pathogen[ Q2Q067] interacts with 7 human partners:{Q9Y2M0;Q96SD1;Q8IZH2;Q9UQ84;P39748;Q9H816;Q9UKF6}

2448 Pathogen[ P0C214] interacts with 7 human partners:{Q9H816;Q9UKF6;Q96SD1;Q9Y2M0;Q8IZH2;P39748;Q9UQ84}

2449 Pathogen[ P03346] interacts with 7 human partners:{Q96SD1;Q9UKF6;Q8IZH2;Q9UQ84;P39748;Q9H816;Q9Y2M0}

2450 Pathogen[ Q85601] interacts with 7 human partners:{Q9Y2M0;Q9UQ84;Q8IZH2;Q96SD1;P39748;Q9H816;Q9UKF6}

2451 Pathogen[ P14079] interacts with 7 human partners:{Q9UKF6;Q8IZH2;Q9Y2M0;Q96SD1;Q9H816;Q9UQ84;P39748}

2452 Pathogen[ P03383] interacts with 3 human partners:{Q9UKF6;Q9H816;Q9Y2M0}

2453 Pathogen[ P03410] interacts with 7 human partners:{Q9H816;P39748;Q96SD1;Q8IZH2;Q9UKF6;Q9UQ84;Q9Y2M0}

2454 Pathogen[ P14075] interacts with 3 human partners:{Q9Y2M0;Q9H816;Q9UKF6}

2455 Pathogen[ P0C206] interacts with 7 human partners:{Q9UKF6;Q9Y2M0;Q9UQ84;Q8IZH2;Q96SD1;Q9H816;P39748}

2456 Pathogen[ P03363] interacts with 4 human partners:{Q9H816;Q9Y2M0;Q9UKF6;Q8IZH2}

2457 [Cluster 224]GO:0019209+F molecular\_function [name] kinase activator activity [def]  
 "Increases the activity of a kinase, an enzyme which catalyzes of the transfer of a phosphate group, usually from ATP, to a substrate molecule." [GOC

2458 Pathogen[ Q2Q067] interacts with 4 human partners:{Q7L9L4;Q9UDY8;O95999;Q15750}  
 2459 Pathogen[ P0C214] interacts with 4 human partners:{Q9UDY8;Q7L9L4;O95999;Q15750}  
 2460 Pathogen[ P03346] interacts with 4 human partners:{Q9UDY8;Q7L9L4;O95999;Q15750}  
 2461 Pathogen[ Q85601] interacts with 4 human partners:{Q15750;Q9UDY8;Q7L9L4;O95999}  
 2462 Pathogen[ P14079] interacts with 3 human partners:{O95999;Q15750;Q7L9L4}  
 2463 Pathogen[ P03383] interacts with 3 human partners:{Q7L9L4;O95999;Q15750}  
 2464 Pathogen[ P03410] interacts with 3 human partners:{Q15750;Q7L9L4;O95999}  
 2465 Pathogen[ P14075] interacts with 3 human partners:{Q15750;O95999;Q7L9L4}  
 2466 Pathogen[ P0C206] interacts with 4 human partners:{Q9UDY8;O95999;Q7L9L4;Q15750}  
 2467 Pathogen[ P03363] interacts with 2 human partners:{Q15750;Q7L9L4}

2468 [Cluster 225]GO:0004385+F molecular\_function [name] guanylate kinase activity [def]  
 "Catalysis of the reaction

2469 Pathogen[ Q2Q067] interacts with 4 human partners:{Q12959;Q92796;Q9UDY2;Q5TCQ9}  
 2470 Pathogen[ P0C214] interacts with 4 human partners:{Q5TCQ9;Q92796;Q12959;Q9UDY2}  
 2471 Pathogen[ P03346] interacts with 5 human partners:{Q9UDY2;Q5TCQ9;Q92796;Q15700;Q12959}  
 2472 Pathogen[ Q85601] interacts with 4 human partners:{Q9UDY2;Q5TCQ9;Q92796;Q12959}  
 2473 Pathogen[ P14079] interacts with 4 human partners:{Q9BXL7;Q9UDY2;Q15700;Q92796}  
 2474 Pathogen[ P03383] interacts with 3 human partners:{Q5TCQ9;Q92796;Q9UDY2}  
 2475 Pathogen[ P03410] interacts with 6 human partners:{Q12959;Q5TCQ9;Q15700;Q9UDY2;Q9BXL7;Q92796}  
 2476 Pathogen[ P14075] interacts with 3 human partners:{Q5TCQ9;Q92796;Q9UDY2}  
 2477 Pathogen[ P0C206] interacts with 5 human partners:{Q15700;Q5TCQ9;Q9UDY2;Q92796;Q12959}  
 2478 Pathogen[ P03363] interacts with 5 human partners:{Q12959;Q15700;Q5TCQ9;Q9UDY2;Q92796}

2479 [Cluster 226]GO:0003857+F molecular\_function [name] 3-hydroxyacyl-CoA dehydrogenase activity [def] "Catalysis of the reaction

2480 Pathogen[ Q2Q067] interacts with 1 human partners:{Q16836}  
 2481 Pathogen[ P0C214] interacts with 2 human partners:{P40939;Q9Y2S2}  
 2482 Pathogen[ P03346] interacts with 1 human partners:{Q16836}  
 2483 Pathogen[ Q85601] interacts with 1 human partners:{Q16836}  
 2484 Pathogen[ P14079] interacts with 1 human partners:{Q16836}  
 2485 Pathogen[ P03383] interacts with 1 human partners:{Q16836}  
 2486 Pathogen[ P03410] interacts with 1 human partners:{Q16836}  
 2487 Pathogen[ P14075] interacts with 1 human partners:{Q16836}  
 2488 Pathogen[ P0C206] interacts with 1 human partners:{Q16836}  
 2489 Pathogen[ P03363] interacts with 1 human partners:{Q16836}

2490 [Cluster 227]GO:0043325+F molecular\_function [name] phosphatidylinositol-3,4-bisphosphate binding [def] "Interacting selectively and non-covalently with phosphatidylinositol-3,4-bisphosphate, a derivative of phosphatidylinositol in which the inositol ring is phosphorylated at the 3' and 4' positions." [GOC

2491 Pathogen[ Q2Q067] interacts with 3 human partners:{Q86VW0;P31749;P55895}  
 2492 Pathogen[ P0C214] interacts with 4 human partners:{Q86VW0;P55895;Q9UQC2;P31749}  
 2493 Pathogen[ P03346] interacts with 6 human partners:{P55895;Q9UQC2;Q86VW0;P31749;Q9HB21;Q9HBF4}  
 2494 Pathogen[ Q85601] interacts with 6 human partners:{P31749;Q9UQC2;Q9HBF4;Q9HB21;P55895;Q86VW0}  
 2495 Pathogen[ P14079] interacts with 4 human partners:{Q9HB21;Q86VW0;Q9HBF4;Q9UQC2}  
 2496 Pathogen[ P03383] interacts with 2 human partners:{P31749;P55895}  
 2497 Pathogen[ P03410] interacts with 6 human partners:{Q9UQC2;P31749;P55895;Q9HB21;Q9HBF4;Q86VW0}  
 2498 Pathogen[ P14075] interacts with 2 human partners:{P31749;P55895}  
 2499 Pathogen[ P0C206] interacts with 6 human partners:{P31749;Q86VW0;P55895;Q9HB21;Q9UQC2;Q9HBF4}

2500 Pathogen[ P03363] interacts with 4 human partners:{P31749;P55895;Q86VW0;Q9UQC2}

2501 [Cluster 228]GO:0004830+F molecular\_function [name] tryptophan-tRNA ligase activity [def] "Catalysis of the reaction

2502 Pathogen[ Q2Q067] interacts with 1 human partners:{P23381}  
 2503 Pathogen[ P0C214] interacts with 2 human partners:{Q9UGM6;P23381}  
 2504 Pathogen[ P03346] interacts with 1 human partners:{P23381}  
 2505 Pathogen[ Q85601] interacts with 1 human partners:{P23381}  
 2506 Pathogen[ P14079] interacts with 2 human partners:{P23381;Q9UGM6}  
 2507 Pathogen[ P03383] interacts with 1 human partners:{P23381}  
 2508 Pathogen[ P03410] interacts with 2 human partners:{P23381;Q9UGM6}  
 2509 Pathogen[ P14075] interacts with 1 human partners:{P23381}  
 2510 Pathogen[ P0C206] interacts with 2 human partners:{Q9UGM6;P23381}  
 2511 Pathogen[ P03363] interacts with 1 human partners:{P23381}

2512 [Cluster 229]GO:0008170+F molecular\_function [name] N-methyltransferase activity [def]  
 "Catalysis of the transfer of a methyl group to the nitrogen atom of an acceptor molecule." [GOC

2513 Pathogen[ Q2Q067] interacts with 1 human partners:{Q99873}

2514 Pathogen[ P0C214] interacts with 1 human partners:{Q99873}  
2515 Pathogen[ P03346] interacts with 2 human partners:{P50135;Q99873}  
2516 Pathogen[ Q85601] interacts with 1 human partners:{Q99873}  
2517 Pathogen[ P14079] interacts with 3 human partners:{Q99873;P50135;Q9Y5R4}  
2518 Pathogen[ P03383] interacts with 1 human partners:{Q99873}  
2519 Pathogen[ P03410] interacts with 3 human partners:{P50135;Q9Y5R4;Q99873}  
2520 Pathogen[ P14075] interacts with 1 human partners:{Q99873}  
2521 Pathogen[ P0C206] interacts with 2 human partners:{Q99873;P50135}  
2522 Pathogen[ P03363] interacts with 3 human partners:{Q9Y5R4;P50135;Q99873}  
2523 [Cluster 230]GO:0004518+F molecular\_function [name] nuclease activity [def]  
"Catalysis of the hydrolysis of ester linkages within nucleic acids." [ISBN  
2524 Pathogen[ Q2Q067] interacts with 53 human  
partners:{Q8TCS8;Q9Y2M0;Q96SD1;Q15631;Q5D1E8;Q99638;Q96LI5;Q92889;Q8IZH2;Q8NCE0;P4995  
9;Q7KZF4;Q9Y2L1;Q99708;Q9NRR4;O60930;Q9H777;O95551;Q504Q3;P27695;Q9GZR2;Q12972;Q9BSV6  
;A4GXA9;P52758;Q86US8;Q9BQ83;Q9NUW8;P54278;Q9UQ84;Q8TF46;Q9BRX2;Q9UKV8;P39748;Q92499;  
Q9H816;Q9H9L3;Q9H9J2;Q96NY9;Q96MB7;Q9BQ65;Q96AY2;Q9UKF6;Q9BQ52;Q93075;O95453;O75792;A  
2A288;Q8IYD8;O60671;Q9ULM6;P28715;O76075}  
2525 Pathogen[ P0C214] interacts with 61 human  
partners:{O95551;Q8N1G1;P27695;Q9H9J2;Q9BQ65;Q9BQ83;O95453;P49959;Q9H816;Q9UKF6;Q9288  
9;Q9Y2L1;Q504Q3;Q96SD1;Q9BRX2;Q96NY9;Q99708;Q9H777;Q9Y2M0;Q7KZF4;O75792;Q8TF46;Q9BSV6  
;Q8IZH2;P28715;Q96MB7;Q9ULM6;A2A288;Q86US8;Q96AY2;Q9BQ52;Q6P1N9;Q8TCS8;Q9H9L3;O60930;  
Q9NRR4;Q8IV48;A4GXA9;Q17R31;Q8WTP8;Q93075;Q9UKV8;O60671;Q92499;Q15631;Q9C0D7;Q9GZR2;P  
39748;Q9UQ84;Q12972;Q8IYB7;Q9NUW8;P52758;P54278;Q96LI5;Q99638;Q5D1E8;Q8IYD8;O76075;Q8  
NCE0;Q9Y3B8}  
2526 Pathogen[ P03346] interacts with 61 human  
partners:{Q504Q3;Q9ULM6;P28715;A2A288;O95551;Q96SD1;Q9GZR2;Q8IX06;Q86US8;Q9H9L3;P5275  
8;Q9UKF6;O60930;P07992;Q99708;Q9NUW8;Q96AY2;Q99638;Q8IYB7;Q8IZH2;Q96NY9;O95453;Q9BQ65  
;Q92499;Q13609;Q15631;Q7KZF4;Q8TCS8;Q9Y2L1;Q5D1E8;Q9H777;Q9UKV8;Q17R31;P49959;Q92889;  
O76075;Q9UQ84;P54278;Q9NRR4;Q8IYD8;O60671;P24855;Q9BQ83;P27695;Q13283;P39748;Q9H816;Q  
9Y2M0;Q9BRX2;Q9UBZ4;Q9BQ52;Q93075;Q12972;Q96LI5;Q9BSV6;A4GXA9;Q8TF46;Q96MB7;Q8NCE0;Q9  
H9J2;O75792}  
2527 Pathogen[ Q85601] interacts with 56 human  
partners:{Q9UBZ4;Q9BQ52;Q9Y2M0;Q8IYD8;Q9UQ84;P52758;Q17R31;Q99708;A4GXA9;Q9NRR4;Q96AY  
2;O75792;P49959;O76075;Q92499;Q7KZF4;Q9BSV6;Q504Q3;Q9H777;Q9Y2L1;Q8IYB7;Q8IZH2;Q96NY9  
;Q92889;P28715;Q96LI5;A2A288;Q96MB7;Q96SD1;O95453;Q12972;Q8TCS8;Q9ULM6;Q9NUW8;Q9UKV8;  
Q9GZR2;Q9H9L3;Q86US8;Q9C0D7;O60671;P54278;Q9BQ83;O60930;P39748;Q9H9J2;Q9H816;Q9BRX2;Q  
93075;P27695;Q9UKF6;Q8TF46;Q99638;O95551;Q15631;Q5D1E8;Q8NCE0}  
2528 Pathogen[ P14079] interacts with 75 human  
partners:{O60671;Q6P1N9;P52758;Q8IV48;Q9BRX2;Q9UKV8;Q9Y3B8;O76075;Q5D1E8;Q13609;P2871  
5;Q96NY9;Q9UKF6;Q8IYD8;Q9UBZ4;O75792;Q9H777;Q9BSV6;Q96LI5;P54278;P49184;O94919;Q86US8  
;Q9GZR2;Q9BQ65;Q8TF46;Q8NCE0;O00115;O95453;Q96AY2;Q14249;Q9BQ50;A4GXA9;Q96MB7;Q8N1G1;  
Q15631;Q8IYB7;Q8IZH2;Q9NUW8;Q9H790;Q8N8Q3;Q99708;Q9H9L3;Q9NRR4;P24855;Q92889;P27695;Q  
9BQ52;Q9Y2M0;Q9Y2L1;Q93075;O95551;Q9NSU2;Q12972;Q9H9J2;Q8WZ79;Q96AZ6;Q96SD1;Q5HYM0;Q9  
2499;Q99638;Q7KZF4;Q9ULM6;A2A288;Q9BQ83;O60930;Q504Q3;Q17R31;Q9H816;Q9UQ84;P07992;Q8T  
CS8;P39748;Q9C0D7;Q8WTP8}  
2529 Pathogen[ P03383] interacts with 41 human  
partners:{Q9NRR4;Q9Y2L1;O60671;P54278;Q9H777;Q93075;O75792;Q96MB7;A4GXA9;Q9BQ65;Q1297  
2;Q5D1E8;Q8NCE0;Q8TCS8;Q9BRX2;Q15631;Q9UKF6;A2A288;Q9BQ52;P52758;Q9BSV6;Q9H816;Q86US8  
;Q7KZF4;Q96AY2;Q9H9L3;Q9Y2M0;Q9UKV8;Q9ULM6;Q99708;Q99638;Q9NUW8;Q9H9J2;O60930;P27695;  
O95551;Q92499;O95453;Q96LI5;Q9BQ83;Q96NY9}  
2530 Pathogen[ P03410] interacts with 77 human  
partners:{Q96LI5;P49959;Q9Y2L1;Q17R31;Q8WTP8;Q99708;Q9GZR2;Q9Y3B8;Q8TCS8;P49184;Q9UKV  
8;Q96AY2;Q9H816;Q8IV48;Q96MB7;Q8IYD8;Q9BQ50;A4GXA9;Q9C0D7;P07992;Q9ULM6;Q13609;Q6P1N9  
;O76075;O75792;Q8TF46;Q8NHP7;Q9BQ52;Q5HYM0;A2A288;Q92889;Q93075;P39748;Q9NSU2;Q96SD1;  
Q9BQ83;P28715;Q9BSV6;Q9H9J2;Q9NRR4;O60930;Q9H790;Q8IZH2;Q9UBZ4;O95551;O95453;Q99638;Q  
92499;Q9BRX2;Q5D1E8;Q2TB18;Q96NY9;Q96AZ6;Q8IX06;Q9NUW8;Q8N1G1;Q9H777;O60671;Q8IYB7;Q8  
6US8;Q9UKF6;P63135;P27695;Q12972;Q15631;Q7KZF4;O00115;P52758;P54278;Q9UQ84;Q9Y2M0;Q9B  
Q65;Q8NCE0;Q504Q3;P24855;Q9H9L3;Q14249}  
2531 Pathogen[ P14075] interacts with 41 human  
partners:{O95453;Q9BSV6;Q9BQ83;Q9ULM6;P27695;Q9BRX2;O60930;O60671;Q93075;Q9H9J2;Q96LI  
5;Q9Y2L1;Q9Y2M0;Q99638;Q9H777;Q92499;Q96MB7;Q15631;Q86US8;Q8NCE0;Q9BQ65;Q9BQ52;Q96NY9  
;Q9H816;Q9NRR4;Q9UKV8;Q5D1E8;Q9H9L3;O75792;Q8TCS8;Q96AY2;P54278;Q7KZF4;P52758;Q12972;  
Q9UKF6;Q99708;Q9NUW8;A4GXA9;A2A288;O95551}  
2532 Pathogen[ P0C206] interacts with 69 human  
partners:{P27695;P54278;Q9UKF6;Q9Y2M0;P28715;Q504Q3;Q96AY2;Q17RS7;Q9H790;O95453;P4995  
9;Q9BSV6;Q9UQ84;Q9NSU2;Q8IZH2;Q8TCS8;Q99708;Q17R31;Q8IV48;Q9BQ65;Q96LI5;O76075;Q9C0D7  
;Q8IYD8;Q9H9L3;A2A288;Q9NUW8;Q7KZF4;Q15631;Q9UKV8;Q96SD1;Q9UBZ4;Q96MB7;Q9H816;P24855;  
Q8N1G1;A4GXA9;P07992;Q99638;O60930;Q96NY9;Q93075;Q86US8;Q92889;Q9Y3B8;O75792;Q5D1E8;O  
95551;Q6P1N9;Q13609;Q9NRR4;Q9Y2L1;Q5HYM0;O60671;Q9H777;Q9H9J2;Q12972;Q8NCE0;P39748;Q9  
GZR2;Q9BQ83;Q8IYB7;P52758;Q92499;Q9BQ52;Q9ULM6;Q8TF46;Q14249;Q9BRX2}  
2533 Pathogen[ P03363] interacts with 52 human  
partners:{Q504Q3;Q9H816;Q9BQ50;P52758;O95453;Q12972;Q9BSV6;A2A288;Q93075;Q9Y2M0;Q86US  
8;Q13283;Q9GZR2;O60671;Q92889;Q9UKV8;Q15631;Q9H9J2;Q96MB7;Q7KZF4;O75792;Q9ULM6;Q13609;  
Q99708;Q8IYB7;P54278;Q8N1G1;O76075;P07998;Q8IYD8;Q9H9L3;Q9NUW8;Q9Y2L1;Q9BQ83;Q92499;  
Q96AY2;Q9NRR4;Q96LI5;Q9BQ65;Q8IX06;Q99638;O95551;Q9BRX2;Q5D1E8;O60930;Q9UKF6;P24855;A  
4GXA9;Q96NY9;Q8TF46;Q8NCE0;Q8IZH2}



2534 [Cluster 231]GO:0070363+F molecular\_function [name] mitochondrial light strand promoter sense binding [def] "Interacting selectively and non-covalently with the sense strand of the light strand promoter, a promoter located on the light, or cytosine-rich, strand of mitochondrial DNA." [GOC

2535 Pathogen[ Q2Q067] interacts with 1 human partners:{Q00059}

2536 Pathogen[ P0C214] interacts with 1 human partners:{Q00059}

2537 Pathogen[ P03346] interacts with 1 human partners:{Q00059}

2538 Pathogen[ Q85601] interacts with 1 human partners:{Q00059}

2539 Pathogen[ P14079] interacts with 1 human partners:{Q00059}

2540 Pathogen[ P03383] interacts with 1 human partners:{Q00059}

2541 Pathogen[ P03410] interacts with 1 human partners:{Q00059}

2542 Pathogen[ P14075] interacts with 1 human partners:{Q00059}

2543 Pathogen[ P0C206] interacts with 1 human partners:{Q00059}

2544 Pathogen[ P03363] interacts with 1 human partners:{Q00059}

2545 [Cluster 232]GO:0004588+F molecular\_function [name] orotate phosphoribosyltransferase activity [def] "Catalysis of the reaction

2546 Pathogen[ Q2Q067] interacts with 1 human partners:{P11172}

2547 Pathogen[ P0C214] interacts with 1 human partners:{P11172}

2548 Pathogen[ P03346] interacts with 1 human partners:{P11172}

2549 Pathogen[ Q85601] interacts with 1 human partners:{P11172}

2550 Pathogen[ P14079] interacts with 1 human partners:{P11172}

2551 Pathogen[ P03383] interacts with 1 human partners:{P11172}

2552 Pathogen[ P03410] interacts with 1 human partners:{P11172}

2553 Pathogen[ P14075] interacts with 1 human partners:{P11172}

2554 Pathogen[ P0C206] interacts with 1 human partners:{P11172}

2555 Pathogen[ P03363] interacts with 1 human partners:{P11172}

2556 [Cluster 233]GO:0004801+F molecular\_function [name] sedoheptulose-7-phosphate [def] "Catalysis of the reaction

2557 Pathogen[ Q2Q067] interacts with 1 human partners:{P37837}

2558 Pathogen[ P0C214] interacts with 1 human partners:{P37837}

2559 Pathogen[ P03346] interacts with 1 human partners:{P37837}

2560 Pathogen[ Q85601] interacts with 1 human partners:{P37837}

2561 Pathogen[ P14079] interacts with 1 human partners:{P37837}

2562 Pathogen[ P03383] interacts with 1 human partners:{P37837}

2563 Pathogen[ P03410] interacts with 1 human partners:{P37837}

2564 Pathogen[ P14075] interacts with 1 human partners:{P37837}

2565 Pathogen[ P0C206] interacts with 1 human partners:{P37837}

2566 Pathogen[ P03363] interacts with 1 human partners:{P37837}

2567 [Cluster 234]GO:0047485+F molecular\_function [name] protein N-terminus binding [def] "Interacting selectively and non-covalently with a protein N-terminus, the end of any peptide chain at which the 2-amino (or 2-imino) function of a constituent amino acid is not attached in peptide linkage to another amino-acid residue." [ISBN

2568 Pathogen[ Q2Q067] interacts with 44 human partners:{Q9Y6X3;O43463;P35754;Q92922;Q92889;Q13889;Q9UJW0;Q7Z2E3;Q04206;Q9UER7;P08107;P63241;Q96KP1;O75381;O00471;P51948;O60934;Q969G3;P15927;O00255;Q9Y6X2;Q15544;P09874;P51532;P60228;Q9BUL8;Q16621;Q03468;Q9BT49;Q9UBU8;Q9UQ35;Q9BZK7;P27348;Q9Y618;Q9NS23;P40855;O00165;P63220;O95229;Q13490;Q13023;Q14207;Q13888;P28715}

2569 Pathogen[ P0C214] interacts with 41 human partners:{P60228;Q9Y6X2;P35754;Q14207;Q9BT49;Q13490;Q9UJW0;Q92889;Q9NS23;P27348;P40855;Q13023;Q16621;O95229;Q04206;O75381;Q9BUL8;P63220;O43463;P63241;Q92922;P28715;Q969G3;P51948;Q9UER7;O00165;Q7Z2E3;Q9UBU8;Q15544;P15927;Q9BZK7;Q13888;Q9Y6X3;Q9UQ35;P08107;Q9Y618;Q03468;O00255;P09874;P51532;O00471}

2570 Pathogen[ P03346] interacts with 52 human partners:{P08107;Q16621;P28715;Q15788;Q9UJW0;O95229;Q14207;O00471;Q96A65;Q8NHU6;Q9H6Q3;P51532;Q13888;P27348;Q04206;Q13023;Q13190;Q9UBX0;P63241;O43463;Q96FZ7;Q13889;O75381;Q9BT49;P60228;Q03468;O00255;Q9UBU8;Q9UER7;Q9Y6X3;P15927;P09874;Q9UQ35;O00165;O60934;Q92889;Q969G3;Q92922;Q9BZK7;P35754;P50542;Q13490;Q7Z2E3;P40855;Q9Y6X2;Q9Y618;Q9BUL8;Q9NS23;P51948;Q15544;Q96KP1;P63220}

2571 Pathogen[ Q85601] interacts with 48 human partners:{P09874;P08107;Q9UJW0;Q9BT49;O95229;Q13490;O00471;Q96A65;O00165;Q16621;Q9BUL8;Q13888;Q9Y6X2;Q9UER7;Q9UBU8;Q9Y618;Q9NS23;P51948;P63241;O43463;Q96FZ7;Q92889;P28715;P60228;Q03468;P51532;Q9UBX0;Q969G3;Q9H6Q3;P15927;Q04206;P27348;Q9UQ35;O00255;Q14207;P63220;Q9BZK7;P35754;Q7Z2E3;Q13023;P19447;O75381;Q92922;Q96KP1;Q9Y6X3;Q15544;P40855;O60934}

2572 Pathogen[ P14079] interacts with 48 human partners:{P09874;Q9BZK7;P40855;P28715;Q9NS23;Q9UBU8;Q9Y6X2;P20292;Q13023;O95229;Q14207;O00165;O00471;Q8NHU6;Q92922;P51532;Q9BUL8;Q13889;O60934;Q9UJW0;Q96KP1;Q13888;P50542;P63220;P35754;Q9UER7;P08107;Q9UQ35;P27348;Q9GZ8;Q15788;Q92889;Q16621;Q9H6Q3;Q96FZ7;P63241;Q96A65;P15927;Q9Y6X3;Q03468;O75381;Q9BT49;Q7Z2E3;O00255;O43761;P19447;Q13490;P51948}

2573 Pathogen[ P03383] interacts with 38 human partners:{P08107;Q9Y618;Q7Z2E3;Q9UJW0;Q15544;P51948;P60228;Q13888;Q13023;O43463;Q13490;Q9UBU8;Q9Y6X3;O00165;P63241;Q96KP1;Q16621;P15927;O95229;Q969G3;Q03468;O00471;P09874;O75381;Q9Y6X2;P63220;Q9UER7;O00255;Q14207;Q9BZK7;Q9BUL8;Q9UQ35;Q04206;P51532;Q92922;Q9BT49;P40855;P27348}

2574 Pathogen[ P03410] interacts with 53 human

partners:{Q04206;Q13889;P35754;Q13190;Q9GZZ8;Q9BUL8;Q8NHU6;O00165;P27348;Q14207;Q13490;Q9UBU8;Q9Y6X2;Q9NS23;P63220;P40855;Q92889;Q9UJW0;Q9BT49;O75381;Q03468;P28715;O43761;Q9UQ35;Q7Z2E3;Q969G3;Q9UER7;P08107;Q16621;Q96A65;Q92922;P19447;Q13023;P09874;P51532;Q96FZ7;P51948;Q15544;Q13888;P50542;Q96KP1;P63241;Q9BZK7;O95229;P15927;O43463;Q9Y618;P20292;O00255;P60228;O00471;O60934;Q9H6Q3}

2575 Pathogen[ P14075] interacts with 39 human partners:{Q7Z2E3;P63220;Q14207;Q04206;Q9BUL8;Q9UBU8;Q9Y6X3;P51532;P40855;Q96KP1;Q92922;Q15544;Q9BT49;P63241;P15927;Q9UQ35;O00471;Q9Y618;O95229;O75381;Q03468;O00255;P60228;Q13490;Q13889;P27348;Q9BZK7;P08107;O43463;Q9GZZ8;Q9UER7;Q16621;Q9UJW0;O00165;Q9Y6X2;P09874;P51948;Q13023;Q13888}

2576 Pathogen[ P0C206] interacts with 52 human partners:{P28715;Q9UBU8;P51532;Q9H6Q3;Q15544;P09874;Q13023;Q9BT49;O75381;O60934;O00255;O43463;Q03468;Q96KP1;Q9UER7;Q92922;P35754;P27348;P50542;Q96A65;Q9Y6X3;Q9Y6X2;P19447;Q9UQ35;P60228;Q13888;Q9UJW0;O00165;P40855;Q04206;Q92889;Q9BUL8;P08107;Q9BZK7;P63241;Q13889;P20292;Q16621;Q969G3;P15927;Q96FZ7;Q9NS23;P63220;Q9UBX0;Q15788;Q7Z2E3;Q9Y618;O00471;Q14207;P51948;O95229;Q13490}

2577 Pathogen[ P03363] interacts with 43 human partners:{Q9BUL8;Q13490;P27348;Q04206;Q8NHU6;O95229;Q13888;O00471;Q96A65;P51532;Q9UJW0;Q9BZK7;Q92889;Q9H6Q3;Q16621;Q9UER7;P15927;P35754;Q9Y6X2;Q9UBU8;Q15544;P08107;Q7Z2E3;Q96KP1;Q969G3;O75381;P63220;Q9Y618;Q9NS23;P40855;P60228;Q13023;P63241;Q03468;O43463;Q9BT49;O00165;P09874;Q14207;Q9Y6X3;Q92922;Q9UQ35;Q9UBX0}

2578 [Cluster 235]GO:0050700+F molecular\_function [name] CARD domain binding [def] "Interacting selectively and non-covalently with a CARD (N-terminal caspase recruitment) domain, a protein-protein interaction domain that belongs to the death domain-fold superfamily. These protein molecule families are similar in structure with each consisting of six or seven anti-parallel alpha-helices that form highly specific homophilic interactions between signaling partners. CARD exists in the N-terminal prodomains of several caspases and in apoptosis-regulatory proteins and mediates the assembly of CARD-containing proteins that participate in activation or suppression of CARD carrying members of the caspase family." [PMID

2579 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96LW7}

2580 Pathogen[ P0C214] interacts with 1 human partners:{Q96LW7}

2581 Pathogen[ P03346] interacts with 1 human partners:{Q96LW7}

2582 Pathogen[ Q85601] interacts with 1 human partners:{Q96LW7}

2583 Pathogen[ P14079] interacts with 4 human partners:{Q9BXL7;Q96LW7;Q7Z434;Q9Y239}

2584 Pathogen[ P03383] interacts with 1 human partners:{Q96LW7}

2585 Pathogen[ P03410] interacts with 4 human partners:{Q9Y239;Q7Z434;Q9BXL7;Q96LW7}

2586 Pathogen[ P14075] interacts with 1 human partners:{Q96LW7}

2587 Pathogen[ P0C206] interacts with 1 human partners:{Q96LW7}

2588 Pathogen[ P03363] interacts with 1 human partners:{Q96LW7}

2589 [Cluster 236]GO:0016799+F molecular\_function [name] hydrolase activity, hydrolyzing N-glycosyl compounds [def] "Catalysis of the hydrolysis of any N-glycosyl bond." [GOC

2590 Pathogen[ Q2Q067] interacts with 3 human partners:{Q969S2;Q13569;P13051}

2591 Pathogen[ P0C214] interacts with 2 human partners:{Q13569;P13051}

2592 Pathogen[ P03346] interacts with 3 human partners:{Q969S2;P13051;Q13569}

2593 Pathogen[ Q85601] interacts with 4 human partners:{Q969S2;P13051;Q96FI4;Q13569}

2594 Pathogen[ P14079] interacts with 5 human partners:{Q8TAT5;Q969S2;Q96FI4;Q13569;P13051}

2595 Pathogen[ P03383] interacts with 2 human partners:{Q13569;P13051}

2596 Pathogen[ P03410] interacts with 5 human partners:{Q96FI4;Q8TAT5;Q13569;Q969S2;P13051}

2597 Pathogen[ P14075] interacts with 2 human partners:{P13051;Q13569}

2598 Pathogen[ P0C206] interacts with 5 human partners:{Q13569;Q8TAT5;Q96FI4;Q969S2;P13051}

2599 Pathogen[ P03363] interacts with 4 human partners:{Q96FI4;P13051;Q13569;Q969S2}

2600 [Cluster 237]GO:0030621+F molecular\_function [name] U4 snRNA binding [def] "Interacting selectively and non-covalently with the U4 small nuclear RNA (U4 snRNA)." [GOC

2601 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13838}

2602 Pathogen[ P0C214] interacts with 1 human partners:{Q13838}

2603 Pathogen[ P03346] interacts with 1 human partners:{Q13838}

2604 Pathogen[ Q85601] interacts with 1 human partners:{Q13838}

2605 Pathogen[ P14079] interacts with 1 human partners:{Q13838}

2606 Pathogen[ P03383] interacts with 1 human partners:{Q13838}

2607 Pathogen[ P03410] interacts with 1 human partners:{Q13838}

2608 Pathogen[ P14075] interacts with 1 human partners:{Q13838}

2609 Pathogen[ P0C206] interacts with 1 human partners:{Q13838}

2610 Pathogen[ P03363] interacts with 1 human partners:{Q13838}

2611 [Cluster 238]GO:0005525+F molecular\_function [name] GTP binding [def] "Interacting selectively and non-covalently with GTP, guanosine triphosphate." [GOC

2612 Pathogen[ Q2Q067] interacts with 29 human partners:{Q9BZE4;Q9BVP2;O60841;P21980;Q9NVN8;Q9H2T7;P62826;P30793;P49770;P08238;Q9Y295;O43236;Q8N1I0;Q14978;Q14232;P57772;Q8IYD1;Q8TCY9;Q9ULW0;P50570;Q15029;P23258;P60953;P63000;Q8N4C6;Q9Y5B9;P61586;Q9NNTK5;P68104}

2613 Pathogen[ P0C214] interacts with 38 human partners:{P63000;O60841;P35558;P49770;P57772;Q15029;P61586;Q9Y295;P23258;P60953;Q1423

2;P15170;Q9H089;P41091;P30793;P13639;A4D1E9;Q14978;Q8TCY9;Q9ULW0;Q9Y5B9;Q8IYD1;P62826;Q16822;Q8N1I0;P21980;Q96199;Q9NVN8;P50570;Q9H2T7;Q9BZE4;Q8N4C6;O43236;Q9NTK5;Q05639;Q5VTE0;Q9BVP2;P36404}

2614 Pathogen[ P03346] interacts with 42 human partners: {P21980;P50570;Q8IZD9;P41091;Q9H2T7;Q9BZE4;Q8TCY9;P23258;P57772;Q8WYJ6;O60841;Q14141;P60953;P62826;Q9BZ29;Q9Y295;Q14232;Q14978;P20340;Q9ULW0;Q9NTK5;O43236;Q92599;Q15019;Q9Y5B9;P36404;P49770;Q8IYD1;Q3YEC7;Q969Q5;P36405;Q9UHD8;Q8N4C6;Q15029;Q8N1I0;Q9NVN8;Q6ZU15;P08238;P63000;P68104;Q9BVP2;P61586}

2615 Pathogen[ Q85601] interacts with 36 human partners: {Q14978;Q9NTK5;P36405;P41091;Q9BZE4;Q5VTE0;P57772;P62826;P63000;Q9Y5B9;Q9ULW0;P49770;Q9H089;P30793;P23258;Q9Y295;P15170;Q15029;P21980;P08238;P68104;P50570;Q8IYD1;P61586;Q8WYJ6;P60953;A4D1E9;Q9H2T7;Q8N4C6;P19447;Q8N1I0;Q9NVN8;Q14232;Q05639;Q9BVP2;O43236}

2616 Pathogen[ P14079] interacts with 50 human partners: {Q9Y5B9;P55039;Q9BVP2;Q9H4K7;Q8N3Z3;P68104;P05408;P41091;P57772;P21980;A4D1E9;Q8IZD9;P68363;P46199;Q9ULW0;Q15029;P30793;O00178;P50570;Q8IYD1;Q9BZE4;Q96RP9;P36405;Q8WYJ6;Q8NC60;Q14692;Q8N4C6;P08238;P23258;P61586;P13639;Q9NWX6;Q969S9;Q9NTK5;Q8N442;O60841;Q9NS86;H0YL14;P62826;Q14232;Q9H2T7;Q8N1I0;O75616;P19447;P49411;O43236;Q8TCY9;Q9H089;Q14978;Q9Y295}

2617 Pathogen[ P03383] interacts with 27 human partners: {Q14978;Q9NVN8;Q15029;P57772;Q9NTK5;O43236;Q9Y295;P60953;P63000;Q9BZE4;O60841;P62826;Q16822;Q9H2T7;P61586;P68104;P49770;Q8IYD1;Q8TCY9;Q14232;P21980;Q9ULW0;Q8N4C6;P08238;Q9BVP2;Q9Y5B9;A4D1E9}

2618 Pathogen[ P03410] interacts with 58 human partners: {Q9H4K7;Q9NVN8;Q9NS86;Q16822;P68104;Q15029;O60841;P63000;Q8IZD9;P08238;Q9Y5B9;Q14692;Q9NTK5;Q96RP9;Q8TCY9;Q14978;P46199;P36405;Q14232;Q969S9;P50570;P30793;P13639;Q6ZU15;Q8NC60;Q9Y295;P49770;Q8N442;H0YL14;O43236;P62826;P15170;P61586;P19447;P05408;Q9H089;Q8WYJ6;Q9BVA1;Q8N4C6;Q9UHD8;Q8IYD1;P57772;Q9H2T7;P60953;Q9BVP2;A4D1E9;P23258;Q9ULW0;P68363;P41091;P21980;O00178;Q8N1I0;Q9NWX6;Q9BZE4;Q8N3Z3;P49411;O75616}

2619 Pathogen[ P14075] interacts with 29 human partners: {P60953;O60841;Q9Y295;P68104;P57772;O43236;Q9H2T7;A4D1E9;Q16822;Q9NVN8;P08238;Q15029;Q9ULW0;Q9NTK5;Q14232;Q9Y5B9;P62826;P49770;Q8IYD1;P61586;H0YL14;P63000;Q9BZE4;P21980;Q8N4C6;P30793;Q8TCY9;Q14978;Q9BVP2}

2620 Pathogen[ P0C206] interacts with 44 human partners: {P41091;Q9Y295;Q8IZD9;Q9NVN8;Q15019;Q9BVP2;Q14692;Q9ULW0;Q14232;P21980;Q8IYD1;Q16822;Q9Y5B9;P62826;P30793;Q14141;O43236;P61586;P19447;Q8TCY9;Q6ZU15;P49770;Q8WYJ6;Q9H089;O60841;P08238;P63000;P57772;Q9H2T7;P60953;P23258;Q9NTK5;Q9BZE4;P36405;A4D1E9;Q8N1I0;Q16181;H0YL14;Q9NS86;Q8N4C6;P68104;P50570;Q14978;Q15029}

2621 Pathogen[ P03363] interacts with 39 human partners: {Q14978;Q9NVN8;O60841;Q969Q5;Q9H2T7;Q9ULW0;Q8IYD1;P50570;Q9NTK5;P68363;Q9BZE4;Q9Y295;P63000;Q8WYJ6;Q9NVA2;P41091;P57772;Q15029;Q13748;Q8IYM1;Q92599;Q9Y5B9;Q8N1I0;Q8IZD9;Q8TCY9;Q9UHD8;P49770;Q9BVP2;Q6ZU15;Q8N4C6;Q14141;P23258;Q99719;P62826;P60953;P08238;O43236;P68104;Q3YEC7}

2622 [Cluster 239]GO:0052909+F

2623 Pathogen[ Q2Q067] interacts with 1 human partners: {Q9UNQ2}

2624 Pathogen[ P0C214] interacts with 1 human partners: {Q9UNQ2}

2625 Pathogen[ P03346] interacts with 1 human partners: {Q9UNQ2}

2626 Pathogen[ Q85601] interacts with 1 human partners: {Q9UNQ2}

2627 Pathogen[ P14079] interacts with 1 human partners: {Q9UNQ2}

2628 Pathogen[ P03383] interacts with 1 human partners: {Q9UNQ2}

2629 Pathogen[ P03410] interacts with 1 human partners: {Q9UNQ2}

2630 Pathogen[ P14075] interacts with 1 human partners: {Q9UNQ2}

2631 Pathogen[ P0C206] interacts with 1 human partners: {Q9UNQ2}

2632 Pathogen[ P03363] interacts with 1 human partners: {Q9UNQ2}

2633 [Cluster 240]GO:0043008+F molecular\_function [name] ATP-dependent protein binding [def] "Interacting selectively and non-covalently with any protein or protein complex (a complex of two or more proteins that may include other nonprotein molecules) using energy from the hydrolysis of ATP." [GOC

2634 Pathogen[ Q2Q067] interacts with 2 human partners: {P04156;Q13838}

2635 Pathogen[ P0C214] interacts with 2 human partners: {P04156;Q13838}

2636 Pathogen[ P03346] interacts with 2 human partners: {Q13838;P04156}

2637 Pathogen[ Q85601] interacts with 2 human partners: {Q13838;P04156}

2638 Pathogen[ P14079] interacts with 2 human partners: {P04156;Q13838}

2639 Pathogen[ P03383] interacts with 2 human partners: {P04156;Q13838}

2640 Pathogen[ P03410] interacts with 2 human partners: {Q13838;P04156}

2641 Pathogen[ P14075] interacts with 2 human partners: {P04156;Q13838}

2642 Pathogen[ P0C206] interacts with 2 human partners: {P04156;Q13838}

2643 Pathogen[ P03363] interacts with 3 human partners: {P04156;Q13838;Q9UBE0}

2644 [Cluster 241]GO:0008144+F molecular\_function [name] drug binding [def] "Interacting selectively and non-covalently with a drug, any naturally occurring or synthetic substance, other than a nutrient, that, when administered or applied to an organism, affects the structure or functioning of the organism\_ in particular, any such substance used in the diagnosis, prevention, or treatment of disease." [GOC

2645 Pathogen[ Q2Q067] interacts with 4 human partners: {Q08209;P11388;P49356;P02795}

2646 Pathogen[ P0C214] interacts with 6 human partners: {P00374;P49356;Q16658;Q08209;P02795;P11388}

2647 Pathogen[ P03346] interacts with 7 human partners:{P07148;P11388;P49356;O75469;P02795;Q16658;Q08209}

2648 Pathogen[ Q85601] interacts with 4 human partners:{P02795;Q08209;P11388;P49356}

2649 Pathogen[ P14079] interacts with 8 human partners:{P00374;P11388;P02795;Q16658;P16298;O75469;P49356;Q08209}

2650 Pathogen[ P03383] interacts with 1 human partners:{P02795}

2651 Pathogen[ P03410] interacts with 6 human partners:{Q16658;Q08209;P49356;P00374;P02795;P11388}

2652 Pathogen[ P14075] interacts with 1 human partners:{P02795}

2653 Pathogen[ P0C206] interacts with 6 human partners:{O75469;Q16658;Q08209;P11388;P02795;P49356}

2654 Pathogen[ P03363] interacts with 2 human partners:{P02795;Q16658}

2655 [Cluster 242]GO:0008199+F molecular\_function [name] ferric iron binding [def] "Interacting selectively and non-covalently with ferric iron, Fe(III)." [GOC

2656 Pathogen[ Q2Q067] interacts with 1 human partners:{P02792}

2657 Pathogen[ P0C214] interacts with 2 human partners:{P02794;P02792}

2658 Pathogen[ P03346] interacts with 2 human partners:{P02792;P02794}

2659 Pathogen[ Q85601] interacts with 2 human partners:{P02792;P02794}

2660 Pathogen[ P14079] interacts with 1 human partners:{P02794}

2661 Pathogen[ P03383] interacts with 1 human partners:{P02794}

2662 Pathogen[ P03410] interacts with 2 human partners:{P02794;P02792}

2663 Pathogen[ P14075] interacts with 1 human partners:{P02794}

2664 Pathogen[ P0C206] interacts with 2 human partners:{P02794;P02792}

2665 Pathogen[ P03363] interacts with 1 human partners:{P02794}

2666 [Cluster 243]GO:0008047+F molecular\_function [name] enzyme activator activity [def] "Increases the activity of an enzyme." [GOC

2667 Pathogen[ Q2Q067] interacts with 8 human partners:{O15519;Q16082;Q9UBU7;Q9UKN8;Q9UJW3;P35251;Q8IY92;Q15750}

2668 Pathogen[ P0C214] interacts with 8 human partners:{Q16082;Q9UKN8;P35251;Q9UBU7;O15519;Q15750;Q8IY92;Q9UJW3}

2669 Pathogen[ P03346] interacts with 11 human partners:{Q16082;P59103;Q9UBU7;O15519;Q9UKN8;O75569;Q15750;P55211;P35251;Q8IY92;Q9UJW3}

2670 Pathogen[ Q85601] interacts with 8 human partners:{Q15750;Q9UJW3;Q9UBU7;Q9UKN8;Q8IY92;P35251;Q16082;O15519}

2671 Pathogen[ P14079] interacts with 12 human partners:{Q16873;O15519;P20292;Q9UKN8;P59103;Q15750;O75569;Q9UJW3;P35251;Q16082;Q9UBU7;Q8IY92}

2672 Pathogen[ P03383] interacts with 6 human partners:{Q9UKN8;Q9UJW3;Q8IY92;Q16082;P35251;Q15750}

2673 Pathogen[ P03410] interacts with 12 human partners:{Q15750;O15519;O75569;P35251;Q8IY92;Q16873;Q16082;Q9UBU7;Q9UJW3;P20292;Q9UKN8;P59103}

2674 Pathogen[ P14075] interacts with 7 human partners:{Q15750;Q9UJW3;Q16082;P35251;Q9UKN8;P59103;Q8IY92}

2675 Pathogen[ P0C206] interacts with 10 human partners:{P35251;O15519;Q16082;Q9UBU7;Q9UKN8;P20292;Q15750;P59103;Q8IY92;Q9UJW3}

2676 Pathogen[ P03363] interacts with 9 human partners:{Q16082;O15519;P35251;Q15750;Q8IY92;Q9UBU7;Q9UJW3;Q9UKN8;O75569}

2677 [Cluster 244]GO:0017134+F molecular\_function [name] fibroblast growth factor binding [def] "Interacting selectively and non-covalently with fibroblast growth factor." [PMID

2678 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9BZZ5;P15880;Q86XR8}

2679 Pathogen[ P0C214] interacts with 3 human partners:{P15880;Q86XR8;Q9BZZ5}

2680 Pathogen[ P03346] interacts with 4 human partners:{Q86XR8;Q9BZZ5;P15880;O43427}

2681 Pathogen[ Q85601] interacts with 3 human partners:{P15880;Q9BZZ5;Q86XR8}

2682 Pathogen[ P14079] interacts with 5 human partners:{O43427;P15880;Q86XR8;Q9BZZ5;Q8TAT2}

2683 Pathogen[ P03383] interacts with 3 human partners:{Q86XR8;Q9BZZ5;P15880}

2684 Pathogen[ P03410] interacts with 4 human partners:{Q9BZZ5;P15880;O43427;Q8TAT2}

2685 Pathogen[ P14075] interacts with 4 human partners:{Q9BZZ5;O43427;Q86XR8;P15880}

2686 Pathogen[ P0C206] interacts with 4 human partners:{Q86XR8;O43427;Q9BZZ5;P15880}

2687 Pathogen[ P03363] interacts with 3 human partners:{Q9BZZ5;P15880;Q86XR8}

2688 [Cluster 245]GO:0048156+F molecular\_function [name] tau protein binding [def] "Interacting selectively and non-covalently with tau protein. tau is a microtubule-associated protein, implicated in Alzheimer's disease, Down Syndrome and ALS." [GOC

2689 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NY61}

2690 Pathogen[ P0C214] interacts with 1 human partners:{Q9NY61}

2691 Pathogen[ P03346] interacts with 1 human partners:{Q9NY61}

2692 Pathogen[ Q85601] interacts with 1 human partners:{Q9NY61}

2693 Pathogen[ P14079] interacts with 1 human partners:{Q9NY61}

2694 Pathogen[ P03383] interacts with 1 human partners:{Q9NY61}

2695 Pathogen[ P03410] interacts with 1 human partners:{Q9NY61}

2696 Pathogen[ P14075] interacts with 1 human partners:{Q9NY61}

2697 Pathogen[ P0C206] interacts with 1 human partners:{Q9NY61}

2698 Pathogen[ P03363] interacts with 1 human partners:{Q9NY61}

2699 [Cluster 246]GO:0008190+F molecular\_function [name] eukaryotic initiation factor 4E binding [def] "Interacting selectively and non-covalently with eukaryotic initiation factor 4E, a polypeptide factor involved in the initiation of ribosome-mediated translation." [ISBN

2700 Pathogen[ Q2Q067] interacts with 3 human partners:{Q13541;O60516;Q13542}

2701 Pathogen[ P0C214] interacts with 4 human partners:{P32243;O60516;Q13542;Q13541}

2702 Pathogen[ P03346] interacts with 4 human partners:{Q13542;Q13541;P32243;O60516}

2703 Pathogen[ Q85601] interacts with 4 human partners:{O60516;Q13541;P32243;Q13542}

2704 Pathogen[ P14079] interacts with 4 human partners:{Q13541;Q13542;P32243;O60516}

2705 Pathogen[ P03383] interacts with 4 human partners:{P32243;Q13542;Q13541;O60516}

2706 Pathogen[ P03410] interacts with 4 human partners:{Q13541;Q13542;P32243;O60516}

2707 Pathogen[ P14075] interacts with 4 human partners:{Q13542;O60516;P32243;Q13541}

2708 Pathogen[ P0C206] interacts with 4 human partners:{Q13541;Q13542;P32243;O60516}

2709 Pathogen[ P03363] interacts with 4 human partners:{P32243;Q13541;O60516;Q13542}

2710 [Cluster 247]GO:0008173+F molecular\_function [name] RNA methyltransferase activity [def] "Catalysis of the transfer of a methyl group from a donor to a nucleoside residue in an RNA molecule." [GOC

2711 Pathogen[ Q2Q067] interacts with 2 human partners:{Q7Z5W3;Q5T8I9}

2712 Pathogen[ P0C214] interacts with 3 human partners:{Q7Z5W3;Q5T8I9;Q6IN84}

2713 Pathogen[ P03346] interacts with 4 human partners:{Q5T8I9;Q6IN84;Q7Z5W3;Q13395}

2714 Pathogen[ Q85601] interacts with 2 human partners:{Q7Z5W3;Q5T8I9}

2715 Pathogen[ P14079] interacts with 5 human partners:{Q9HC36;Q7L2J0;Q6IN84;Q13395;Q7Z5W3}

2716 Pathogen[ P03383] interacts with 2 human partners:{Q5T8I9;Q7Z5W3}

2717 Pathogen[ P03410] interacts with 6 human partners:{Q9HC36;Q5T8I9;Q13395;Q6IN84;Q7Z5W3;Q7L2J0}

2718 Pathogen[ P14075] interacts with 3 human partners:{Q6IN84;Q7Z5W3;Q5T8I9}

2719 Pathogen[ P0C206] interacts with 4 human partners:{Q7Z5W3;Q5T8I9;Q6IN84;Q7L2J0}

2720 Pathogen[ P03363] interacts with 3 human partners:{Q5T8I9;Q13395;Q7Z5W3}

2721 [Cluster 248]GO:0000979+F molecular\_function [name] RNA polymerase II core promoter sequence-specific DNA binding [def] "Interacting selectively and non-covalently with the regulatory region composed of the transcription start site and binding sites for transcription factors of the RNA polymerase II basal transcription machinery." [GOC

2722 Pathogen[ Q2Q067] interacts with 12 human partners:{Q9NQ87;Q92985;Q02447;P08047;P56270;P14651;Q14872;Q86WI3;Q99717;Q16649;P42224;Q15797}

2723 Pathogen[ P0C214] interacts with 11 human partners:{P56270;Q14872;Q86WI3;P42224;P14651;Q92985;Q02447;Q99717;Q15797;Q9NQ87;P08047}

2724 Pathogen[ P03346] interacts with 15 human partners:{P56270;Q15797;Q14872;P41225;Q99717;P08047;Q06710;Q86WI3;Q9NQ87;Q16649;P42224;Q92481;Q92985;Q02447;P14651}

2725 Pathogen[ Q85601] interacts with 12 human partners:{P56270;Q15797;Q14872;Q86WI3;P08047;Q16649;Q99717;Q9NQ87;Q92985;P42224;Q02447;P14651}

2726 Pathogen[ P14079] interacts with 10 human partners:{Q16649;Q92985;Q02447;Q15797;P56270;P42224;Q14872;Q9NQ87;Q86WI3;P14651}

2727 Pathogen[ P03383] interacts with 10 human partners:{P08047;P56270;Q9NQ87;Q15797;Q14872;Q92985;Q02447;Q99717;Q86WI3;P14651}

2728 Pathogen[ P03410] interacts with 11 human partners:{Q02447;Q9NQ87;P14651;Q99717;Q86WI3;Q16649;Q14872;Q15797;P56270;P08047;Q92985}

2729 Pathogen[ P14075] interacts with 8 human partners:{Q86WI3;Q99717;Q9NQ87;Q02447;P56270;Q92985;Q14872;P08047}

2730 Pathogen[ P0C206] interacts with 12 human partners:{Q9NQ87;Q16649;Q86WI3;Q99717;P14651;P08047;Q92985;Q02447;Q14872;Q15797;P42224;P56270}

2731 Pathogen[ P03363] interacts with 11 human partners:{Q16649;Q92985;Q02447;P14651;Q9NQ87;Q15797;Q14872;Q86WI3;P56270;P08047;Q99717}

2732 [Cluster 249]GO:0050560+F molecular\_function [name] aspartate-tRNA(Asn) ligase activity [def] "Catalysis of the reaction

2733 Pathogen[ Q2Q067] interacts with 1 human partners:{Q6PI48}

2734 Pathogen[ P0C214] interacts with 1 human partners:{Q6PI48}

2735 Pathogen[ P03346] interacts with 1 human partners:{Q6PI48}

2736 Pathogen[ Q85601] interacts with 1 human partners:{Q6PI48}

2737 Pathogen[ P14079] interacts with 1 human partners:{Q6PI48}

2738 Pathogen[ P03383] interacts with 1 human partners:{Q6PI48}

2739 Pathogen[ P03410] interacts with 1 human partners:{Q6PI48}

2740 Pathogen[ P14075] interacts with 1 human partners:{Q6PI48}

2741 Pathogen[ P0C206] interacts with 1 human partners:{Q6PI48}

2742 Pathogen[ P03363] interacts with 1 human partners:{Q6PI48}

2743 [Cluster 250]GO:0046570+F molecular\_function [name] methylthioribulose 1-phosphate dehydratase activity [def] "Catalysis of the reaction

2744 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96GX9}

2745 Pathogen[ P0C214] interacts with 1 human partners:{Q96GX9}

2746 Pathogen[ P03346] interacts with 1 human partners:{Q96GX9}

2747 Pathogen[ Q85601] interacts with 1 human partners:{Q96GX9}

2748 Pathogen[ P14079] interacts with 1 human partners:{Q96GX9}

2749 Pathogen[ P03383] interacts with 1 human partners:{Q96GX9}

2750 Pathogen[ P03410] interacts with 1 human partners:{Q96GX9}

2751 Pathogen[ P14075] interacts with 1 human partners:{Q96GX9}

2752 Pathogen[ P0C206] interacts with 1 human partners:{Q96GX9}

2753 Pathogen[ P03363] interacts with 1 human partners:{Q96GX9}

2754 [Cluster 251]GO:0001071+F molecular\_function [name] nucleic acid binding transcription factor activity [def] "Interacting selectively and non-covalently with a DNA or RNA sequence in order to modulate transcription. The transcription factor may or may not also interact selectively with a protein or macromolecular complex." [GOC

2755 Pathogen[ Q2Q067] interacts with 2 human partners:{Q8WW38;P19838}

2756 Pathogen[ P0C214] interacts with 2 human partners:{P19838;Q8WW38}

2757 Pathogen[ P03346] interacts with 5 human partners:{Q06945;Q8WW38;Q7Z4V0;P98177;P19838}

2758 Pathogen[ Q85601] interacts with 2 human partners:{Q8WW38;P19838}

2759 Pathogen[ P14079] interacts with 1 human partners:{Q8WW38}

2760 Pathogen[ P03383] interacts with 2 human partners:{Q8WW38;P19838}

2761 Pathogen[ P03410] interacts with 2 human partners:{P19838;Q8WW38}

2762 Pathogen[ P14075] interacts with 2 human partners:{Q8WW38;P19838}

2763 Pathogen[ P0C206] interacts with 2 human partners:{Q8WW38;P19838}

2764 Pathogen[ P03363] interacts with 2 human partners:{P19838;Q8WW38}

2765 [Cluster 252]GO:0003726+F molecular\_function [name] double-stranded RNA adenosine deaminase activity [def] "Catalysis of the reaction

2766 Pathogen[ Q2Q067] interacts with 2 human partners:{P55265;Q9H171}

2767 Pathogen[ P0C214] interacts with 2 human partners:{Q9H171;P55265}

2768 Pathogen[ P03346] interacts with 2 human partners:{P55265;Q9H171}

2769 Pathogen[ Q85601] interacts with 2 human partners:{Q9H171;P55265}

2770 Pathogen[ P14079] interacts with 2 human partners:{Q9H171;P55265}

2771 Pathogen[ P03383] interacts with 2 human partners:{Q9H171;P55265}

2772 Pathogen[ P03410] interacts with 2 human partners:{P55265;Q9H171}

2773 Pathogen[ P14075] interacts with 2 human partners:{P55265;Q9H171}

2774 Pathogen[ P0C206] interacts with 2 human partners:{P55265;Q9H171}

2775 Pathogen[ P03363] interacts with 2 human partners:{P55265;Q9H171}

2776 [Cluster 253]GO:0046934+F molecular\_function [name] phosphatidylinositol-4,5-bisphosphate 3-kinase activity [def] "Catalysis of the reaction

2777 Pathogen[ Q2Q067] interacts with 1 human partners:{Q5UE93}

2778 Pathogen[ P0C214] interacts with 1 human partners:{Q5UE93}

2779 Pathogen[ P03346] interacts with 1 human partners:{Q5UE93}

2780 Pathogen[ Q85601] interacts with 1 human partners:{Q5UE93}

2781 Pathogen[ P14079] interacts with 1 human partners:{Q5UE93}

2782 Pathogen[ P03383] interacts with 1 human partners:{Q5UE93}

2783 Pathogen[ P03410] interacts with 1 human partners:{Q5UE93}

2784 Pathogen[ P14075] interacts with 1 human partners:{Q5UE93}

2785 Pathogen[ P0C206] interacts with 1 human partners:{Q5UE93}

2786 Pathogen[ P03363] interacts with 1 human partners:{Q5UE93}

2787 [Cluster 254]GO:0005516+F molecular\_function [name] calmodulin binding [def] "Interacting selectively and non-covalently with calmodulin, a calcium-binding protein with many roles, both in the calcium-bound and calcium-free states." [GOC

2788 Pathogen[ Q2Q067] interacts with 31 human partners:{Q01844;Q01082;Q13033;Q05066;Q9P032;P41220;Q08209;Q9UKX2;Q13884;P29966;Q96SN8;Q9UKC9;Q07157;Q9UII2;P11171;Q9H9H5;Q9NRL3;P29474;P12883;Q15051;Q8IZT6;Q13425;Q9UBL0;P27986;P35579;Q95613;P49006;Q060869;Q8IW35;P32929;P48539}

2789 Pathogen[ P0C214] interacts with 42 human partners:{P29474;P41220;P49006;P29966;Q9UKX2;Q15051;Q00159;Q9Y2K3;Q9UM54;Q96SN8;P11055;Q13033;Q13884;Q01844;Q01082;P32929;Q8IW35;P35580;Q9UII2;Q13425;Q9H9H5;P13535;Q08209;Q93100;P12882;Q9UKC9;P12883;Q9UBL0;Q7Z406;P13533;Q9Y623;Q95613;Q060869;P48454;Q07157;Q8IZT6;Q9P032;P27986;P46020;P35749;P11171;Q9NRL3}

2790 Pathogen[ P03346] interacts with 40 human partners:{Q13425;A8MU46;Q9Y283;Q9P032;P29474;Q05066;P35579;Q13884;Q43815;Q15051;Q13813;Q13424;Q01082;Q9UII2;P11171;Q9H9H5;Q8IW35;Q13033;Q9UBL0;Q96SN8;P32929;Q07157;P11137;P29966;Q9ULV0;P49006;P48539;P48454;Q9UKX2;Q8IZT6;Q95613;Q96JE9;P41220;Q96L03;Q01844;Q060869;Q08209;Q9UKC9;Q9NRL3;P27986}

2791 Pathogen[ Q85601] interacts with 44 human partners:{Q9NRL3;Q13884;P13533;P41220;P35579;Q96SN8;Q9Y283;Q43815;P11171;P49006;Q01082;Q8IZT6;P27986;Q08209;Q9UKC9;Q9UII2;Q9UKX2;Q9Y2K3;Q00159;Q9H9H5;P12882;Q9UBL0;Q7Z406;Q15051;P11055;Q13425;P35749;Q8IW35;Q13033;P12883;P29966;P29474;Q07157;P35580;Q9UM54;Q95613;P13535;Q060869;P17677;Q9P032;P48454;Q9Y623;Q01844;P32929}

2792 Pathogen[ P14079] interacts with 46 human partners:{Q4G0U5;P48454;P35579;P17677;Q92686;P11171;Q01082;Q13033;Q07157;P49006;P24588;Q96DU7;P16298;Q9UII2;Q43815;Q93100;Q9UKC9;Q9UKX2;P41220;Q060869;Q9UM54;Q9H9H5;Q13424;P35611;Q9UBL0;Q9NRL3;P29966;Q15075;P32929;P12883;Q96JE9;Q05682;Q95613;Q9Y283;Q15051;Q9P032;Q99439;P11137;Q9UEY8;Q13813;Q8IW35;Q96SN8;Q08209;P48539;Q8IZT6;P46020}

2793 Pathogen[ P03383] interacts with 26 human partners:{P27986;P29474;Q15051;Q13884;P41220;Q96SN8;P49006;Q07157;Q9UII2;Q9H9H5;P4853

9;Q9UKX2;P29966;P12883;P35580;Q9UKC9;Q9NRL3;P35579;O95613;Q13033;Q01844;O60869;Q9P032;Q9UBL0;Q13425;Q8IW35}

2794 Pathogen[ P03410] interacts with 57 human  
partners:{P27986;Q9UBL0;P48539;Q96DU7;P11137;Q9NRL3;Q9UKX2;Q9UEY8;Q08209;P49006;P46020;P41220;Q05682;Q9ULV0;Q96SN8;P32929;Q13425;O00159;P35579;Q9Y283;Q96JE9;A8MU46;Q13884;Q8IZT6;P11171;Q9UII2;Q9UM54;Q93100;P29474;Q9H9H5;P63098;P12882;P48454;Q99439;Q07157;Q96L03;Q13033;Q9UKC9;P12883;Q15051;Q4G0U5;Q8IW35;P35580;O60869;P17677;Q92686;O43815;P13533;Q01082;Q9P032;Q13424;O95613;P13535;Q13813;P35611;P29966;P24588}

2795 Pathogen[ P14075] interacts with 27 human  
partners:{P29474;P49006;Q13884;Q15051;Q9UKX2;Q07157;Q96JE9;Q13425;Q93100;Q01844;P41220;Q96SN8;Q9UII2;Q9H9H5;P29966;Q9NRL3;P27986;Q9UKC9;P35579;O95613;O60869;Q9P032;Q13033;Q9UBL0;P11171;P48539;Q8IW35}

2796 Pathogen[ P0C206] interacts with 51 human  
partners:{Q9UKC9;Q01082;Q9UM54;Q96SN8;P17677;Q93100;Q9P032;P13533;Q9Y623;O43815;Q05066;Q96JE9;Q01844;Q8IZT6;Q9UBL0;P11055;P27986;Q9Y283;Q96DU7;P46020;Q9NRL3;Q13884;P11137;P12883;Q92686;O95613;Q13425;O00159;P49006;P32929;P12882;Q8IW35;P35749;P35579;Q9UKX2;P48454;O60869;P29474;Q07157;Q08209;Q13033;P41220;Q13424;P48539;P35580;Q15051;P13535;Q9UII2;P29966;P11171;Q9H9H5}

2797 Pathogen[ P03363] interacts with 35 human  
partners:{P11137;P29474;Q15051;P48539;P35579;Q9UKX2;Q01082;O95613;Q13033;Q07157;Q13425;Q9P032;Q05066;O43815;P11171;Q9Y283;Q13884;P41220;P29966;O60869;Q9NRL3;Q01844;Q8IW35;Q9UBL0;Q9UKC9;Q96L03;P49006;A8MU46;Q13813;P27986;Q8IZT6;Q96JE9;Q13424;Q96SN8;Q9H9H5}

2798 [Cluster 255]GO:0004721+F molecular\_function [name] phosphoprotein phosphatase  
activity [def] "Catalysis of the reaction

2799 Pathogen[ Q2Q067] interacts with 39 human  
partners:{Q9H0C8;Q99502;Q15398;Q8WY54;Q08209;A6NK39;O14974;O00167;O00743;P62140;Q9UNH5;P67775;P30304;O15355;Q9BV47;O14829;Q8WVY7;Q8IXW5;Q12959;Q99504;P62714;P30307;P36873;Q9Y5B0;P62136;P53041;Q9UQK1;O95476;P35813;O75688;P30305;P49593;Q9NP77;P60510;O14595;Q16829;Q9GZU7;A8MSY0;O15297}

2800 Pathogen[ P0C214] interacts with 52 human  
partners:{O60346;P35813;O14595;P30307;P62140;A6NK39;Q9BV47;O15194;O14829;O00167;Q8IXW5;Q8N819;A8MSY0;Q9GZU7;O14974;P60510;P62714;O95685;Q15398;Q08209;P62136;Q8WVY7;O95278;P67775;Q99504;P30305;Q16829;Q9UNH5;P53041;Q12959;Q9P0J1;O95476;O15297;Q8N3J5;Q8WY54;Q3ZCQ8;P36873;Q13615;A6NG73;Q9Y5B0;P49593;O00743;Q96GD0;O75688;Q9H0C8;P48454;P30304;Q9NP77;Q9P2J9;Q9UQK1;Q9H7J1;Q99502}

2801 Pathogen[ P03346] interacts with 57 human  
partners:{P62136;Q9UQK1;P43378;Q9NRX4;Q9H0C8;O00743;O60346;P35813;O95677;O14829;Q8WY54;O00167;O95685;Q8IXW5;Q8TF42;P30304;Q9H3S7;A8MSY0;Q9H7J1;P62714;P67775;Q99502;P49593;A6NK39;O15194;P30305;Q9BV47;Q8TF05;Q9Y5B0;Q9GZU7;Q15398;Q16667;P17706;P36873;O15297;O75688;P53041;Q8WVY7;Q16829;O95476;Q3ZCQ8;O15355;P48454;P62140;Q9NP77;Q08209;O95278;Q9Y2R2;Q99504;O14974;P24666;O14595;P60510;A6NG73;Q9UNH5;P30307;Q12959}

2802 Pathogen[ Q85601] interacts with 47 human  
partners:{O60346;O75688;O14829;A6NK39;Q15398;P62714;Q9GZU7;O15194;Q9H0C8;Q9UQK1;O95677;P49593;Q8WVY7;Q16829;Q99504;P30304;O95278;Q9BV47;Q08209;Q9NP77;Q9UNH5;P30305;O15355;P30307;P62136;Q9Y5B0;P36873;Q99502;O15297;Q3ZCQ8;A8MSY0;Q8IXW5;P53041;P67775;O95476;Q8WY54;Q12959;P60510;O14974;O00743;P62140;P35813;O00167;P48454;O14595;A6NG73;Q8N3J5}

2803 Pathogen[ P14079] interacts with 46 human  
partners:{O15194;Q3ZCQ8;P48454;Q9H7J1;Q99502;P49593;Q9NRX4;P30307;P53041;Q9Y5B0;Q8TF05;O15297;P36873;Q16829;A8MSY0;P16298;O14974;P62136;O60346;P30304;Q96GD0;Q8WVY7;P35813;Q8IXW5;Q8WY54;O95685;O14829;P62140;Q9UQK1;Q9H0C8;Q9BV47;Q9NP77;P60510;O95476;O75688;Q99504;A6NG73;P30305;O00167;A6NK39;O15355;Q08209;O00743;Q9UNH5;Q9GZU7;Q15398}

2804 Pathogen[ P03383] interacts with 26 human  
partners:{A6NG73;P30307;Q99504;P62140;A6NK39;O00167;Q9UQK1;Q9H0C8;P30304;P62714;Q8IXW5;A8MSY0;P67775;O15297;P35813;P36873;P62136;Q9GZU7;Q9UNH5;Q9H7J1;P53041;O15355;Q8WY54;Q9Y5B0;O00743;P60510}

2805 Pathogen[ P03410] interacts with 51 human  
partners:{P62714;O15355;P35813;Q8N3J5;Q15398;Q08209;P60510;Q99502;Q12959;Q9GZU7;Q8WY54;P62136;O95685;Q9NP77;Q9UNH5;Q9H7J1;Q9H0C8;O75688;Q9NRX4;Q96GD0;Q16829;O15297;P48454;Q3ZCQ8;P62140;P30304;O14974;P36873;P53041;Q99504;O95476;Q9Y5B0;P24666;A6NG73;O60346;O00167;P49593;Q8WVY7;A6NK39;Q8TF05;Q8IXW5;A8MSY0;P30305;P67775;Q9BV47;Q96HS1;P30307;O00743;O14829;O15194;Q9UQK1}

2806 Pathogen[ P14075] interacts with 28 human  
partners:{O15297;Q8IXW5;P35813;Q99504;A6NG73;Q9Y5B0;P60510;P62140;O00167;Q9UQK1;P36873;P62136;O00743;Q9H0C8;A6NK39;P53041;P30304;P62714;P67775;Q9GZU7;Q8WY54;Q99502;O95685;A8MSY0;Q9UNH5;O15355;P30307;Q9H7J1}

2807 Pathogen[ P0C206] interacts with 56 human  
partners:{Q8IXW5;O00167;Q99504;Q9BV47;O00743;Q9GZU7;P30307;Q8WY54;Q13615;Q9UQK1;Q9NRX4;P53041;P30305;P67775;Q9Y2R2;Q16829;O95476;P49593;O14974;O15355;Q3ZCQ8;P24666;O75688;Q9UNH5;Q9Y5B0;O95278;A6NK39;Q8TF05;P62714;P48454;P62140;P30304;Q99502;O14829;A6NG73;Q96GD0;O60346;Q08209;O15194;O14595;P60510;O95685;O15297;P36873;Q15398;Q8N3J5;Q12959;Q9H7J1;O95677;P17706;P62136;P35813;A8MSY0;Q9NP77;Q8WVY7;Q9H0C8}

2808 Pathogen[ P03363] interacts with 45 human  
partners:{P17706;Q12959;A8MSY0;P62136;O15355;Q9Y5B0;Q9H3S7;Q8TF42;Q9UNH5;P62714;O14829;P36873;Q9Y2R2;P43378;P62140;P53041;Q15398;Q16667;O00743;Q3ZCQ8;Q8IXW5;O95476;A6NK39;P30304;Q16829;Q9H0C8;Q8WVY7;Q99504;P60510;O14974;Q9UQK1;Q12923;O00167;Q9GZU7;Q9BV47;O15297;P30307;Q8TF05;O75688;P24666;P67775;A6NG73;Q8WY54;O14595;Q9NP77}

2809 [Cluster 256]GO:0004180+F molecular\_function [name] carboxypeptidase activity [def] "Catalysis of the hydrolysis of the terminal or penultimate peptide bond at the C-terminal end of a peptide or polypeptide." [ISBN

2810 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13867}

2811 Pathogen[ P0C214] interacts with 1 human partners:{Q13867}

2812 Pathogen[ P03346] interacts with 1 human partners:{Q13867}

2813 Pathogen[ Q85601] interacts with 1 human partners:{Q13867}

2814 Pathogen[ P14079] interacts with 9 human partners:{Q96KP4;Q15155;Q96MI9;Q9UPW5;Q5JPE7;P69849;Q13867;Q8NDL9;Q9NPA0}

2815 Pathogen[ P03383] interacts with 1 human partners:{Q13867}

2816 Pathogen[ P03410] interacts with 4 human partners:{P69849;Q9UPW5;Q9NPA0;Q13867}

2817 Pathogen[ P14075] interacts with 1 human partners:{Q13867}

2818 Pathogen[ P0C206] interacts with 3 human partners:{Q8NDL9;Q13867;Q9UPW5}

2819 Pathogen[ P03363] interacts with 1 human partners:{Q13867}

2820 [Cluster 257]GO:0030165+F molecular\_function [name] PDZ domain binding [def] "Interacting selectively and non-covalently with a PDZ domain of a protein, a domain found in diverse signaling proteins." [GOC

2821 Pathogen[ Q2Q067] interacts with 21 human partners:{Q8IUD2;Q9P219;Q15596;O60260;Q6P1M3;Q13884;O14910;Q86UL8;P11532;P78352;Q8N1I0;Q9HB19;Q92796;Q8N448;Q8TBB1;Q02410;O60299;Q15599;Q8N6Y0;Q5T2W1;Q9NUP9}

2822 Pathogen[ P0C214] interacts with 20 human partners:{O14910;Q92796;Q15599;O15056;Q6P1M3;Q8N448;O60299;Q13884;Q5T2W1;P11532;P78352;Q9HB19;Q8TBB1;Q02410;Q8N1I0;Q8N6Y0;O60260;Q15596;Q9P219;Q8IUD2}

2823 Pathogen[ P03346] interacts with 30 human partners:{O14908;Q5T2W1;Q9HB19;Q96A65;Q9H2H0;P78352;Q13884;Q6P1M3;Q8IUD2;Q02410;Q92796;O15056;Q9P219;Q13424;Q9P021;Q15599;Q9NUP9;Q86UL8;Q15596;Q8TBB1;O60299;O60260;Q9HB21;Q5VV41;Q15700;Q8N6Y0;P11532;O75052;Q8N1I0;O14910}

2824 Pathogen[ Q85601] interacts with 22 human partners:{Q9NUP9;Q5T2W1;O14910;Q96A65;Q13884;Q86UL8;Q6P1M3;P11532;Q15596;Q9P219;Q9HB21;P78352;Q92796;Q8TBB1;O60260;Q9HB19;Q8N6Y0;Q02410;Q8N1I0;Q8IUD2;Q15599;O60299}

2825 Pathogen[ P14079] interacts with 24 human partners:{O60260;Q15596;P11532;Q15700;Q02410;Q8IUD2;Q13424;Q9HB19;Q8TBB1;Q9NUP9;Q8N6Y0;Q15599;Q5T2W1;Q86UL8;Q96A65;Q9HB21;O60299;Q9P021;Q92796;Q8N1I0;O14908;Q9P219;Q6P1M3;Q5VV41}

2826 Pathogen[ P03383] interacts with 16 human partners:{Q8TBB1;Q13884;Q15596;Q5T2W1;O60299;Q6P1M3;O60260;P11532;Q8N448;Q8N6Y0;Q02410;Q92796;Q8IUD2;Q9HB19;P78352;O14910}

2827 Pathogen[ P03410] interacts with 28 human partners:{Q9P219;O14910;Q5T2W1;O60299;Q8TBB1;P11532;O14908;Q6P1M3;Q9NUP9;O60260;Q9HB21;Q02410;Q13884;Q15700;Q8N6Y0;Q15599;Q8IUD2;Q96A65;Q92796;Q5VV41;Q15596;O75052;Q86UL8;Q9HB19;Q9P021;Q13424;P78352;Q8N1I0}

2828 Pathogen[ P14075] interacts with 16 human partners:{Q02410;P11532;Q13884;Q6P1M3;Q8IUD2;O14910;O60299;Q9HB19;Q92796;Q5T2W1;P78352;Q8N6Y0;Q8N448;Q8TBB1;O60260;Q15596}

2829 Pathogen[ P0C206] interacts with 27 human partners:{Q8N6Y0;Q9NUP9;Q9HB19;P78352;Q15700;Q9P021;Q9H2H0;Q8IUD2;O60299;Q96A65;Q5T2W1;Q15599;Q13884;O60260;Q9P219;O14908;Q8TBB1;O14910;Q9HB21;Q8N1I0;Q15596;Q92796;P11532;Q86UL8;Q13424;Q6P1M3;Q02410}

2830 Pathogen[ P03363] interacts with 27 human partners:{Q9P021;O14908;Q5VV41;Q8N448;Q96A65;O14910;P78352;Q15700;Q8TBB1;Q15596;Q6P1M3;Q8N1I0;Q8N6Y0;P11532;Q02410;O15056;Q13884;Q9HB19;Q15599;Q86UL8;Q92796;Q9NUP9;Q9P219;O60299;Q5T2W1;Q8IUD2;Q13424}

2831 [Cluster 258]GO:0030156+F molecular\_function [name] benzodiazepine receptor binding [def] "Interacting selectively and non-covalently with the peripheral benzodiazepine receptor (PBR)." [GOC

2832 Pathogen[ Q2Q067] interacts with 1 human partners:{O95153}

2833 Pathogen[ P0C214] interacts with 1 human partners:{O95153}

2834 Pathogen[ P03346] interacts with 1 human partners:{O95153}

2835 Pathogen[ Q85601] interacts with 1 human partners:{O95153}

2836 Pathogen[ P14079] interacts with 1 human partners:{O95153}

2837 Pathogen[ P03383] interacts with 1 human partners:{O95153}

2838 Pathogen[ P03410] interacts with 1 human partners:{O95153}

2839 Pathogen[ P14075] interacts with 1 human partners:{O95153}

2840 Pathogen[ P0C206] interacts with 1 human partners:{O95153}

2841 Pathogen[ P03363] interacts with 1 human partners:{O95153}

2842 [Cluster 259]GO:0003708+F molecular\_function [name] retinoic acid receptor activity [def] "Combining with retinoic acid and transmitting the signal to the transcriptional machinery by interacting selectively and non-covalently with a specific DNA sequence in order to modulate transcription by RNA polymerase II. Retinoic acid is one of the forms of vitamin A." [GOC

2843 Pathogen[ Q2Q067] interacts with 1 human partners:{P62508}

2844 Pathogen[ P0C214] interacts with 1 human partners:{P62508}

2845 Pathogen[ P03346] interacts with 1 human partners:{P62508}

2846 Pathogen[ Q85601] interacts with 1 human partners:{P62508}

2847 Pathogen[ P14079] interacts with 1 human partners:{P62508}

2848 Pathogen[ P03383] interacts with 1 human partners:{P62508}



2849 Pathogen[ P03410] interacts with 1 human partners:{P62508}  
2850 Pathogen[ P14075] interacts with 1 human partners:{P62508}  
2851 Pathogen[ P0C206] interacts with 1 human partners:{P62508}  
2852 Pathogen[ P03363] interacts with 1 human partners:{P62508}  
2853 [Cluster 260]GO:0034039+F molecular\_function [name] 8-oxo-7,8-dihydroguanine DNA  
N-glycosylase activity [def] "Catalysis of the removal of 8-oxo-7,8-dihydroguanine bases  
by cleaving the N-C1' glycosidic bond between the oxidized purine and the deoxyribose  
sugar." [GOC  
2854 Pathogen[ Q2Q067] interacts with 1 human partners:{O15527}  
2855 Pathogen[ P0C214] interacts with 1 human partners:{O15527}  
2856 Pathogen[ P03346] interacts with 1 human partners:{O15527}  
2857 Pathogen[ Q85601] interacts with 1 human partners:{O15527}  
2858 Pathogen[ P14079] interacts with 1 human partners:{O15527}  
2859 Pathogen[ P03383] interacts with 1 human partners:{O15527}  
2860 Pathogen[ P03410] interacts with 1 human partners:{O15527}  
2861 Pathogen[ P14075] interacts with 1 human partners:{O15527}  
2862 Pathogen[ P0C206] interacts with 1 human partners:{O15527}  
2863 Pathogen[ P03363] interacts with 1 human partners:{O15527}  
2864 [Cluster 261]GO:0001671+F molecular\_function [name] ATPase activator activity [def]  
"Functions to increase the rate of ATP hydrolysis." [GOC  
2865 Pathogen[ Q2Q067] interacts with 2 human partners:{O95433;O75190}  
2866 Pathogen[ P0C214] interacts with 2 human partners:{O75190;O95433}  
2867 Pathogen[ P03346] interacts with 3 human partners:{O75190;O95433;Q96KC8}  
2868 Pathogen[ Q85601] interacts with 2 human partners:{O75190;O95433}  
2869 Pathogen[ P14079] interacts with 3 human partners:{O95433;O75190;Q719I0}  
2870 Pathogen[ P03383] interacts with 2 human partners:{O95433;O75190}  
2871 Pathogen[ P03410] interacts with 3 human partners:{Q719I0;O75190;O95433}  
2872 Pathogen[ P14075] interacts with 2 human partners:{O95433;O75190}  
2873 Pathogen[ P0C206] interacts with 2 human partners:{Q719I0;O75190}  
2874 Pathogen[ P03363] interacts with 2 human partners:{O75190;O95433}  
2875 [Cluster 262]GO:0016779+F molecular\_function [name] nucleotidyltransferase activity  
[def] "Catalysis of the transfer of a nucleotidyl group to a reactant." [ISBN  
2876 Pathogen[ Q2Q067] interacts with 32 human  
partners:{Q9Y253;Q8TCS8;O95602;Q15054;O00411;Q9NRF9;Q9Y6K5;Q8NDF8;Q9HAN9;Q9UNA4;P3087  
6;Q9UBZ9;P49005;Q9H9Y6;Q5TAX3;P07902;Q16851;P06746;Q16222;Q9NR50;P56282;Q9HCU8;O14746  
;P24928;P54098;P04053;Q9UHN1;Q9NP87;Q9BWH6;Q9NVV4;O14802;P51003}  
2877 Pathogen[ P0C214] interacts with 40 human  
partners:{Q96T66;O00411;O14746;Q9HAN9;P30876;Q8NDF8;Q9H9Y6;P06746;P54098;P51003;Q1622  
2;Q9BWH6;Q9Y6K5;Q9UBZ9;P29728;P49005;O95396;Q9HCU8;Q13057;Q9NR50;Q16851;Q9UNA4;Q9BZQ4  
;Q8TCS8;Q9NRF9;Q9NW08;P24928;O95602;P07902;P04053;Q15054;Q9NP87;Q8NFW8;Q9NVV4;Q8NFF5;  
P56282;Q9Y253;O14802;Q5TAX3;Q9UHN1}  
2878 Pathogen[ P03346] interacts with 35 human  
partners:{Q9Y253;Q7Z5Q5;Q9HCU8;Q5XG87;P54098;Q9UNA4;Q9UBZ9;P56282;Q9H9Y6;Q16222;Q9UHN  
1;P49005;Q8NFW8;Q9NR33;Q9HAN9;Q9NRF9;P51003;Q16851;Q5TAX3;Q8TCS8;O14746;Q9NVV4;Q9BWH6  
;O00411;Q8NDF8;O95602;P30876;P04053;P24928;Q9NP87;P06746;Q9NR50;O14802;Q9Y6K5;Q15054}  
2879 Pathogen[ Q85601] interacts with 36 human  
partners:{O95602;Q9BWH6;P56282;Q9NR50;Q9UGP5;P49005;Q15054;Q9HAN9;Q9NRF9;Q9H9Y6;Q1622  
2;Q16851;Q9Y6K5;Q5XG87;P54098;Q5TAX3;Q8TCS8;Q9UBZ9;Q9UBT6;Q8NDF8;Q9NW08;Q9HCU8;O14746  
;P04053;P07902;P06746;P24928;P30876;Q9NP87;Q9NVV4;P51003;O00411;Q9UHN1;Q9Y253;Q9UNA4;  
O14802}  
2880 Pathogen[ P14079] interacts with 46 human  
partners:{O14746;Q8NFF5;Q9UNA4;Q16222;P29728;Q16851;Q9BWH6;Q9UGP5;Q8NFW8;Q9NW08;Q9NRG  
0;P49005;P30876;Q5XG87;Q9HCU8;Q9UBZ9;Q9NR50;Q15054;Q9NRF9;Q5TAX3;Q9BZQ4;Q7Z5Q5;Q9Y6K5  
;Q13057;P56282;Q9NVV4;Q9NWX6;P49642;Q9HAN9;Q9NP87;O00411;P06746;Q9Y253;P04053;P07902;  
O95602;Q96Q11;P24928;P51003;P54098;O14802;Q9UHN1;Q9UBT6;Q9NR33;Q8TCS8;Q9H9Y6}  
2881 Pathogen[ P03383] interacts with 27 human  
partners:{Q9NVV4;Q9Y253;Q9UHN1;O95602;P06746;P51003;Q9HCU8;P07902;Q9H9Y6;Q8NDF8;Q8TCS  
8;P49005;Q5TAX3;P56282;Q9NR50;Q16851;Q9HAN9;P54098;P24928;O14746;Q9UBZ9;Q15054;Q9Y6K5  
;O00411;P30876;O14802;Q9BWH6}  
2882 Pathogen[ P03410] interacts with 47 human  
partners:{Q9BWH6;Q96Q11;Q9NR50;Q8TCS8;Q16851;Q8NFF5;P29728;O14746;Q13057;P24928;Q9UBT  
6;Q5TAX3;P04053;Q16222;Q9UNA4;P07902;P06746;P30876;Q9NRG0;P56282;O00411;Q9NVV4;P51003  
;Q7Z5Q5;Q9UGP5;Q9UBZ9;Q9NW08;O95602;Q9Y253;Q15054;Q9NRF9;Q5XG87;Q9NR33;Q9HAN9;Q9Y6K5;  
P63135;P49005;Q8NFW8;Q9NP87;Q9UHN1;P54098;Q9NWX6;Q9BZQ4;O14802;P49642;Q9HCU8;Q9H9Y6}  
2883 Pathogen[ P14075] interacts with 28 human  
partners:{P51003;P54098;Q9BWH6;Q9UBZ9;O14746;Q8NDF8;P30876;Q9NVV4;P06746;Q5TAX3;P4900  
5;Q13057;P07902;Q9Y253;O00411;P24928;Q9Y6K5;Q15054;Q9H9Y6;O95602;Q8TCS8;Q9UHN1;Q9NR50  
;Q9HCU8;P56282;Q9HAN9;Q16851;O14802}  
2884 Pathogen[ P0C206] interacts with 44 human  
partners:{Q9Y253;Q16851;Q9BWH6;Q5XG87;Q9UHN1;Q9NRF9;Q16222;Q8TCS8;O95602;Q9NR33;Q9UBT  
6;Q9UNA4;Q9HCU8;Q7Z5Q5;Q13057;Q9Y6K5;Q9NW08;P06746;P29728;P54098;P51003;P49005;P49642  
;Q9NR50;Q9UGP5;Q15054;P04053;Q8NDF8;Q9BZQ4;P07902;Q9NP87;Q9NVV4;Q5TAX3;Q9UBZ9;Q9HAN9;  
P56282;P24928;Q8NFW8;O14802;Q9H9Y6;O95396;O14746;O00411;P30876}  
2885 Pathogen[ P03363] interacts with 31 human  
partners:{Q9Y6K5;O00411;Q9NVV4;Q8NFW8;Q16222;Q16851;Q9H9Y6;P30876;Q9HAN9;Q9NRF9;Q9Y25  
3;O95602;P24928;P49005;O14746;P54098;P04053;Q9NR50;Q9HCU8;P51003;Q8NDF8;P06746;Q9BWH6

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;Q7Z5Q5;Q9NP87;Q5TAX3;Q15054;Q9UHN1;Q9UNA4;Q9NR33;Q9UBZ9}
2886 [Cluster 263]GO:000224+F    molecular_function [name]
peptide-N4-(N-acetyl-beta-glucosaminyl)asparagine amidase activity [def] "Catalysis of
the reaction
2887 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96IV0}
2888 Pathogen[ P0C214] interacts with 1 human partners:{Q96IV0}
2889 Pathogen[ P03346] interacts with 1 human partners:{Q96IV0}
2890 Pathogen[ Q85601] interacts with 1 human partners:{Q96IV0}
2891 Pathogen[ P14079] interacts with 1 human partners:{Q96IV0}
2892 Pathogen[ P03383] interacts with 1 human partners:{Q96IV0}
2893 Pathogen[ P03410] interacts with 1 human partners:{Q96IV0}
2894 Pathogen[ P14075] interacts with 1 human partners:{Q96IV0}
2895 Pathogen[ P0C206] interacts with 1 human partners:{Q96IV0}
2896 Pathogen[ P03363] interacts with 1 human partners:{Q96IV0}
2897 [Cluster 264]GO:0019825+F    molecular_function [name] oxygen binding [def]
"Interacting selectively and non-covalently with oxygen (O2)." [GOC
2898 Pathogen[ Q2Q067] interacts with 2 human partners:{P68871;P69905}
2899 Pathogen[ P0C214] interacts with 7 human
partners:{P02042;P69905;Q9NPG2;P68871;P69892;P02100;P69891}
2900 Pathogen[ P03346] interacts with 4 human partners:{P02100;Q9NPG2;P69905;P68871}
2901 Pathogen[ Q85601] interacts with 7 human
partners:{P69905;P02042;P02100;P69892;P68871;Q9NPG2;P69891}
2902 Pathogen[ P14079] interacts with 13 human
partners:{Q8WWM9;P48775;P02042;Q9NPG2;P69891;P02100;P09105;P69905;P02008;P68871;Q6B0K
9;P02144;P69892}
2903 Pathogen[ P03383] interacts with 2 human partners:{P69905;P68871}
2904 Pathogen[ P03410] interacts with 13 human
partners:{Q6B0K9;P02008;P02144;P02100;P09105;Q8WWM9;P48775;P68871;P02042;Q9NPG2;P6989
2;P69905;P69891}
2905 Pathogen[ P14075] interacts with 2 human partners:{P68871;P69905}
2906 Pathogen[ P0C206] interacts with 11 human
partners:{P68871;Q6B0K9;P02100;P69892;P02008;P69891;Q9NPG2;P69905;P09105;P02042;Q8WWM
9}
2907 Pathogen[ P03363] interacts with 2 human partners:{P69905;P68871}
2908 [Cluster 265]GO:0048306+F    molecular_function [name] calcium-dependent protein binding
[def] "Interacting selectively and non-covalently with any protein or protein complex (a
complex of two or more proteins that may include other nonprotein molecules), in the
presence of calcium." [GOC
2909 Pathogen[ Q2Q067] interacts with 9 human
partners:{P50995;O75340;Q99816;P26447;Q8WUM4;P20073;P31949;P25815;Q9NZU7}
2910 Pathogen[ P0C214] interacts with 10 human
partners:{O75340;P19429;Q9NZU7;P25815;P26447;Q99816;P31949;P20073;P50995;Q8WUM4}
2911 Pathogen[ P03346] interacts with 12 human
partners:{Q96BU1;P20073;P25815;Q9NZU7;Q99816;P06703;O75340;P63316;P26447;P50995;Q8WUM
4;P31949}
2912 Pathogen[ Q85601] interacts with 9 human
partners:{Q99816;Q9NZU7;P26447;P50995;P25815;O75340;P20073;P31949;Q8WUM4}
2913 Pathogen[ P14079] interacts with 12 human
partners:{P19429;P50995;P31949;P25815;Q96BU1;Q8WUM4;O75340;P26447;P20073;P06703;Q9981
6;Q9NZU7}
2914 Pathogen[ P03383] interacts with 5 human
partners:{P50995;P25815;Q99816;Q8WUM4;P20073}
2915 Pathogen[ P03410] interacts with 14 human
partners:{P26447;P50995;P19429;P31949;Q9NRY6;P06703;P25815;Q99816;Q96BU1;Q9NZU7;P2007
3;P63316;O75340;Q8WUM4}
2916 Pathogen[ P14075] interacts with 6 human
partners:{Q8WUM4;Q96BU1;P20073;P50995;P25815;Q99816}
2917 Pathogen[ P0C206] interacts with 12 human
partners:{O75340;P31949;P26447;P50995;P19429;Q99816;Q9NZU7;P25815;Q96BU1;Q8WUM4;P0670
3;P20073}
2918 Pathogen[ P03363] interacts with 11 human
partners:{P26447;O75340;Q96BU1;P31949;P25815;P20073;P50995;Q8WUM4;Q9NZU7;Q99816;P1942
9}
2919 [Cluster 266]GO:0008967+F    molecular_function [name] phosphoglycolate phosphatase
activity [def] "Catalysis of the reaction
2920 Pathogen[ Q2Q067] interacts with 2 human partners:{Q7Z2E3;Q9BSH5}
2921 Pathogen[ P0C214] interacts with 3 human partners:{Q9BSH5;Q7Z2E3;Q9UHY7}
2922 Pathogen[ P03346] interacts with 3 human partners:{Q9UHY7;Q7Z2E3;Q9BSH5}
2923 Pathogen[ Q85601] interacts with 3 human partners:{Q9BSH5;Q9UHY7;Q7Z2E3}
2924 Pathogen[ P14079] interacts with 2 human partners:{Q9BSH5;Q7Z2E3}
2925 Pathogen[ P03383] interacts with 2 human partners:{Q7Z2E3;Q9BSH5}
2926 Pathogen[ P03410] interacts with 2 human partners:{Q7Z2E3;Q9BSH5}
2927 Pathogen[ P14075] interacts with 2 human partners:{Q7Z2E3;Q9BSH5}
2928 Pathogen[ P0C206] interacts with 3 human partners:{Q9UHY7;Q9BSH5;Q7Z2E3}
2929 Pathogen[ P03363] interacts with 2 human partners:{Q7Z2E3;Q9BSH5}
2930 [Cluster 267]GO:0030292+F    molecular_function [name] protein tyrosine kinase inhibitor

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activity [def] "Stops, prevents or reduces the activity of a protein tyrosine kinase."  
[GOC

2931 Pathogen[ Q2Q067] interacts with 1 human partners:{095684}  
2932 Pathogen[ P0C214] interacts with 1 human partners:{095684}  
2933 Pathogen[ P03346] interacts with 2 human partners:{095684;Q9P2D0}  
2934 Pathogen[ Q85601] interacts with 2 human partners:{095684;Q9P2D0}  
2935 Pathogen[ P14079] interacts with 2 human partners:{095684;Q9P2D0}  
2936 Pathogen[ P03383] interacts with 1 human partners:{095684}  
2937 Pathogen[ P03410] interacts with 2 human partners:{095684;Q9P2D0}  
2938 Pathogen[ P14075] interacts with 1 human partners:{095684}  
2939 Pathogen[ P0C206] interacts with 2 human partners:{095684;Q9P2D0}  
2940 Pathogen[ P03363] interacts with 2 human partners:{095684;Q9P2D0}  
2941 [Cluster 268]GO:0035243+F molecular\_function [name] protein-arginine omega-N symmetric  
methyltransferase activity [def] "Catalysis of the addition of a second methyl group to  
methylated peptidyl-arginine. Methylation is on the terminal nitrogen (omega nitrogen)  
residue that is not already methylated, resulting in symmetrical  
peptidyl-N(omega),N'(omega)-dimethylated arginine residues." [PMID

2942 Pathogen[ Q2Q067] interacts with 2 human partners:{014744;Q9NVM4}  
2943 Pathogen[ P0C214] interacts with 1 human partners:{Q9NVM4}  
2944 Pathogen[ P03346] interacts with 2 human partners:{014744;Q9NVM4}  
2945 Pathogen[ Q85601] interacts with 2 human partners:{Q9NVM4;014744}  
2946 Pathogen[ P14079] interacts with 2 human partners:{Q9NVM4;014744}  
2947 Pathogen[ P03383] interacts with 1 human partners:{014744}  
2948 Pathogen[ P03410] interacts with 2 human partners:{Q9NVM4;014744}  
2949 Pathogen[ P14075] interacts with 1 human partners:{014744}  
2950 Pathogen[ P0C206] interacts with 2 human partners:{014744;Q9NVM4}  
2951 Pathogen[ P03363] interacts with 2 human partners:{014744;Q9NVM4}  
2952 [Cluster 269]GO:0055105+F molecular\_function [name] ubiquitin-protein ligase inhibitor  
activity [def] "Stops, prevents or reduces the activity of a ubiquitin-protein  
ligase." [GOC

2953 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8N726}  
2954 Pathogen[ P0C214] interacts with 1 human partners:{Q8N726}  
2955 Pathogen[ P03346] interacts with 1 human partners:{Q8N726}  
2956 Pathogen[ Q85601] interacts with 1 human partners:{Q8N726}  
2957 Pathogen[ P14079] interacts with 1 human partners:{Q8N726}  
2958 Pathogen[ P03383] interacts with 1 human partners:{Q8N726}  
2959 Pathogen[ P03410] interacts with 1 human partners:{Q8N726}  
2960 Pathogen[ P14075] interacts with 1 human partners:{Q8N726}  
2961 Pathogen[ P0C206] interacts with 1 human partners:{Q8N726}  
2962 Pathogen[ P03363] interacts with 1 human partners:{Q8N726}  
2963 [Cluster 270]GO:0071535+F molecular\_function [name] RING-like zinc finger domain  
binding [def] "Interacting selectively and non-covalently with a RING-like zinc finger  
domain domain of a protein. The RING-like domain is a zinc finger domain that is related  
to the C3HC4 RING finger domain." [GOC

2964 Pathogen[ Q2Q067] interacts with 3 human partners:{P63279;P35226;Q99496}  
2965 Pathogen[ P0C214] interacts with 3 human partners:{P35226;P63279;Q99496}  
2966 Pathogen[ P03346] interacts with 3 human partners:{P35226;P63279;Q99496}  
2967 Pathogen[ Q85601] interacts with 3 human partners:{P63279;Q99496;P35226}  
2968 Pathogen[ P14079] interacts with 3 human partners:{P63279;Q99496;P35226}  
2969 Pathogen[ P03383] interacts with 3 human partners:{Q99496;P63279;P35226}  
2970 Pathogen[ P03410] interacts with 3 human partners:{Q99496;P63279;P35226}  
2971 Pathogen[ P14075] interacts with 3 human partners:{P63279;Q99496;P35226}  
2972 Pathogen[ P0C206] interacts with 2 human partners:{P35226;Q99496}  
2973 Pathogen[ P03363] interacts with 3 human partners:{Q99496;P35226;P63279}  
2974 [Cluster 271]GO:0019966+F molecular\_function [name] interleukin-1 binding [def]  
"Interacting selectively and non-covalently with interleukin-1." [GOC

2975 Pathogen[ Q2Q067] interacts with 1 human partners:{000165}  
2976 Pathogen[ P0C214] interacts with 1 human partners:{000165}  
2977 Pathogen[ P03346] interacts with 2 human partners:{095361;000165}  
2978 Pathogen[ Q85601] interacts with 1 human partners:{000165}  
2979 Pathogen[ P14079] interacts with 2 human partners:{000165;095361}  
2980 Pathogen[ P03383] interacts with 1 human partners:{000165}  
2981 Pathogen[ P03410] interacts with 1 human partners:{000165}  
2982 Pathogen[ P14075] interacts with 1 human partners:{000165}  
2983 Pathogen[ P0C206] interacts with 2 human partners:{000165;095361}  
2984 Pathogen[ P03363] interacts with 1 human partners:{000165}  
2985 [Cluster 272]GO:0001948+F molecular\_function [name] glycoprotein binding [def]  
"Interacting selectively and non-covalently with a glycoprotein, a protein that contains  
covalently bound glucose (monosaccharide) residues. These also include proteoglycans."  
[GOC

2986 Pathogen[ Q2Q067] interacts with 4 human partners:{Q8NI29;Q9NRD1;Q96DZ1;Q96EF6}  
2987 Pathogen[ P0C214] interacts with 5 human  
partners:{Q8NI29;Q9NRD1;Q96DZ1;Q96EF6}  
2988 Pathogen[ P03346] interacts with 5 human  
partners:{Q96DZ1;Q13438;Q8NI29;Q9NRD1;Q96EF6}  
2989 Pathogen[ Q85601] interacts with 4 human partners:{060884;Q8NI29;Q96EF6;Q9NRD1}

2990 Pathogen[ P14079] interacts with 7 human partners:{Q8NI29;Q96DZ1;Q96EF6;Q9GZZ8;Q9NRD1;O60884;Q13438}

2991 Pathogen[ P03383] interacts with 4 human partners:{Q96DZ1;Q8NI29;Q9NRD1;Q96EF6}

2992 Pathogen[ P03410] interacts with 7 human partners:{Q9NRD1;Q9GZZ8;Q8NI29;O60884;Q96DZ1;Q13438;Q96EF6}

2993 Pathogen[ P14075] interacts with 5 human partners:{Q96EF6;Q8NI29;Q9NRD1;Q9GZZ8;Q96DZ1}

2994 Pathogen[ P0C206] interacts with 6 human partners:{Q96DZ1;O60884;Q9NRD1;Q8NI29;Q13438;Q96EF6}

2995 Pathogen[ P03363] interacts with 5 human partners:{Q8NI29;Q96DZ1;Q96EF6;Q13438;Q9NRD1}

2996 [Cluster 273]GO:0005168+F molecular\_function [name] neurotrophin TRKA receptor binding [def] "Interacting selectively and non-covalently with the neurotrophin TRKA receptor." [GOC]

2997 Pathogen[ Q2Q067] interacts with 1 human partners:{P27986}

2998 Pathogen[ P0C214] interacts with 2 human partners:{P62993;P27986}

2999 Pathogen[ P03346] interacts with 2 human partners:{P62993;P27986}

3000 Pathogen[ Q85601] interacts with 2 human partners:{P62993;P27986}

3001 Pathogen[ P14079] interacts with 2 human partners:{Q8WU20;P62993}

3002 Pathogen[ P03383] interacts with 1 human partners:{P27986}

3003 Pathogen[ P03410] interacts with 3 human partners:{P27986;Q8WU20;P62993}

3004 Pathogen[ P14075] interacts with 1 human partners:{P27986}

3005 Pathogen[ P0C206] interacts with 3 human partners:{P27986;P62993;Q8WU20}

3006 Pathogen[ P03363] interacts with 1 human partners:{P27986}

3007 [Cluster 274]GO:0032407+F molecular\_function [name] MutSalpha complex binding [def] "Interacting selectively and non-covalently with the mismatch repair complex MutSalpha." [GOC]

3008 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9UIF7;Q9UHC1;P54278}

3009 Pathogen[ P0C214] interacts with 5 human partners:{A8MQ11;Q9UHC1;Q9UIF7;P54278;P40692}

3010 Pathogen[ P03346] interacts with 4 human partners:{Q9UIF7;Q9UHC1;P54278;P54277}

3011 Pathogen[ Q85601] interacts with 5 human partners:{A8MQ11;Q9UIF7;P54278;Q9UHC1;P40692}

3012 Pathogen[ P14079] interacts with 8 human partners:{Q9UIF7;P40692;P54278;Q9UHC1;A8MQ11;O95744;Q9NSU2;P54277}

3013 Pathogen[ P03383] interacts with 2 human partners:{P54278;Q9UHC1}

3014 Pathogen[ P03410] interacts with 8 human partners:{P40692;P54277;Q9NSU2;O95744;A8MQ11;P54278;Q9UIF7;Q9UHC1}

3015 Pathogen[ P14075] interacts with 3 human partners:{Q9UIF7;Q9UHC1;P54278}

3016 Pathogen[ P0C206] interacts with 7 human partners:{P54278;Q9NSU2;P40692;Q9UHC1;A8MQ11;P54277;Q9UIF7}

3017 Pathogen[ P03363] interacts with 4 human partners:{Q9UHC1;P54278;P54277;Q9UIF7}

3018 [Cluster 275]GO:0004459+F molecular\_function [name] L-lactate dehydrogenase activity [def] "Catalysis of the reaction

3019 Pathogen[ Q2Q067] interacts with 4 human partners:{P07195;Q9BYZ2;P00338;P07864}

3020 Pathogen[ P0C214] interacts with 4 human partners:{P07864;Q6ZMR3;Q9BYZ2;P07195}

3021 Pathogen[ P03346] interacts with 3 human partners:{P00338;P07195;Q9BYZ2}

3022 Pathogen[ Q85601] interacts with 5 human partners:{Q6ZMR3;P07864;Q9BYZ2;P07195;P00338}

3023 Pathogen[ P14079] interacts with 5 human partners:{P00338;P07195;Q6ZMR3;P07864;Q9BYZ2}

3024 Pathogen[ P03383] interacts with 5 human partners:{P00338;Q9BYZ2;P07864;P07195;Q6ZMR3}

3025 Pathogen[ P03410] interacts with 5 human partners:{Q9BYZ2;Q6ZMR3;P07195;P00338;P07864}

3026 Pathogen[ P14075] interacts with 4 human partners:{P07195;P07864;P00338;Q9BYZ2}

3027 Pathogen[ P0C206] interacts with 5 human partners:{P07195;Q6ZMR3;P07864;Q9BYZ2;P00338}

3028 Pathogen[ P03363] interacts with 1 human partners:{Q9BYZ2}

3029 [Cluster 276]GO:0005109+F molecular\_function [name] frizzled binding [def] "Interacting selectively and non-covalently with the frizzled (fz) receptor." [GOC]

3030 Pathogen[ Q2Q067] interacts with 2 human partners:{O14641;Q5TCQ9}

3031 Pathogen[ P0C214] interacts with 3 human partners:{Q5TCQ9;O14641;Q9HD26}

3032 Pathogen[ P03346] interacts with 3 human partners:{Q5TCQ9;O14641;Q9HD26}

3033 Pathogen[ Q85601] interacts with 3 human partners:{O14641;Q9HD26;Q5TCQ9}

3034 Pathogen[ P14079] interacts with 3 human partners:{O14641;Q9HD26;Q13145}

3035 Pathogen[ P03383] interacts with 3 human partners:{Q9HD26;O14641;Q5TCQ9}

3036 Pathogen[ P03410] interacts with 4 human partners:{Q5TCQ9;Q13145;Q9HD26;O14641}

3037 Pathogen[ P14075] interacts with 3 human partners:{Q9HD26;Q5TCQ9;O14641}

3038 Pathogen[ P0C206] interacts with 2 human partners:{Q5TCQ9;Q9HD26}

3039 Pathogen[ P03363] interacts with 3 human partners:{Q5TCQ9;O14641;Q9HD26}

3040 [Cluster 277]GO:0004046+F molecular\_function [name] aminoacylase activity [def] "Catalysis of the reaction

3041 Pathogen[ Q2Q067] interacts with 1 human partners:{P14868}

3042 Pathogen[ P0C214] interacts with 1 human partners:{P14868}

3043 Pathogen[ P03346] interacts with 2 human partners:{P45381;P14868}

3044 Pathogen[ Q85601] interacts with 1 human partners:{P14868}  
3045 Pathogen[ P14079] interacts with 4 human partners:{P14868;Q96HD9;P45381;Q03154}  
3046 Pathogen[ P03383] interacts with 1 human partners:{P14868}  
3047 Pathogen[ P03410] interacts with 3 human partners:{Q96HD9;P45381;P14868}  
3048 Pathogen[ P14075] interacts with 1 human partners:{P14868}  
3049 Pathogen[ P0C206] interacts with 2 human partners:{P45381;P14868}  
3050 Pathogen[ P03363] interacts with 1 human partners:{P14868}  
3051 [Cluster 278]GO:0016810+F molecular\_function [name] hydrolase activity, acting on carbon-nitrogen (but not peptide) bonds [def] "Catalysis of the hydrolysis of any carbon-nitrogen bond, C-N, with the exception of peptide bonds." [GOC  
3052 Pathogen[ Q2Q067] interacts with 3 human partners:{Q96NU7;Q14194;Q9NQR4}  
3053 Pathogen[ P0C214] interacts with 4 human partners:{Q14194;O14531;Q9NQR4;Q96NU7}  
3054 Pathogen[ P03346] interacts with 5 human partners:{Q96NU7;Q9NQR4;O14531;Q14194;Q86X76}  
3055 Pathogen[ Q85601] interacts with 2 human partners:{Q14194;Q9NQR4}  
3056 Pathogen[ P14079] interacts with 7 human partners:{A8MPS7;Q96NU7;Q02083;Q9Y303;Q14194;Q6IA69;Q9NQR4}  
3057 Pathogen[ P03383] interacts with 1 human partners:{Q9NQR4}  
3058 Pathogen[ P03410] interacts with 8 human partners:{Q02083;Q96NU7;Q86X76;Q9NQR4;O14531;A8MPS7;Q14194;Q6IA69}  
3059 Pathogen[ P14075] interacts with 3 human partners:{Q9NQR4;Q02083;Q96NU7}  
3060 Pathogen[ P0C206] interacts with 7 human partners:{O14531;A8MPS7;Q9NQR4;Q02083;Q14194;Q86X76;Q96NU7}  
3061 Pathogen[ P03363] interacts with 4 human partners:{Q02083;Q14194;O14531;Q9NQR4}  
3062 [Cluster 279]GO:0004145+F molecular\_function [name] diamine N-acetyltransferase activity [def] "Catalysis of the reaction  
3063 Pathogen[ Q2Q067] interacts with 1 human partners:{P21673}  
3064 Pathogen[ P0C214] interacts with 1 human partners:{P21673}  
3065 Pathogen[ P03346] interacts with 1 human partners:{P21673}  
3066 Pathogen[ Q85601] interacts with 1 human partners:{P21673}  
3067 Pathogen[ P14079] interacts with 1 human partners:{P21673}  
3068 Pathogen[ P03383] interacts with 1 human partners:{P21673}  
3069 Pathogen[ P03410] interacts with 1 human partners:{P21673}  
3070 Pathogen[ P14075] interacts with 1 human partners:{P21673}  
3071 Pathogen[ P0C206] interacts with 1 human partners:{P21673}  
3072 Pathogen[ P03363] interacts with 1 human partners:{P21673}  
3073 [Cluster 280]GO:0004860+F molecular\_function [name] protein kinase inhibitor activity [def] "Stops, prevents or reduces the activity of a protein kinase, an enzyme which phosphorylates a protein." [GOC  
3074 Pathogen[ Q2Q067] interacts with 10 human partners:{Q96S95;O60239;Q9UD71;P38936;Q9UQF2;Q96RU7;Q9NS73;Q9H875;P46527;P49918}  
3075 Pathogen[ P0C214] interacts with 11 human partners:{O60239;Q9H875;Q96S95;P46527;P38936;Q9UD71;P49918;Q9NS73;Q9UQF2;Q96RU7;O15524}  
3076 Pathogen[ P03346] interacts with 13 human partners:{O60239;O15524;Q96S95;P49918;Q9UD71;Q9NS73;Q9H875;Q96RU7;Q9UQF2;P38936;P61925;P46527;Q9C010}  
3077 Pathogen[ Q85601] interacts with 10 human partners:{O60239;Q9UD71;Q96S95;Q9UQF2;Q9NS73;Q9H875;Q96RU7;P49918;P38936;P46527}  
3078 Pathogen[ P14079] interacts with 13 human partners:{Q9C010;Q9UD71;Q9UQF2;P49918;O60239;Q7Z7J9;P38936;Q96RU7;Q9H875;Q96S95;P46527;P61925;Q9NS73}  
3079 Pathogen[ P03383] interacts with 8 human partners:{Q9UD71;Q9NS73;Q9UQF2;P46527;Q96RU7;P49918;Q96S95;Q9H875}  
3080 Pathogen[ P03410] interacts with 13 human partners:{Q9H875;P46527;P61925;Q96S95;Q9NS73;O60239;P38936;Q9C010;Q7Z7J9;Q96RU7;P49918;Q9UQF2;Q9UD71}  
3081 Pathogen[ P14075] interacts with 10 human partners:{O60239;Q9UD71;Q9C010;P46527;Q96S95;P49918;Q96RU7;Q9UQF2;Q9NS73;Q9H875}  
3082 Pathogen[ P0C206] interacts with 13 human partners:{Q9UD71;Q9C010;O15524;Q9UQF2;Q96RU7;O60239;P46527;P38936;Q9H875;P61925;Q9NS73;P49918;Q96S95}  
3083 Pathogen[ P03363] interacts with 10 human partners:{P49918;Q9H875;Q9C010;O15524;Q9UD71;Q9UQF2;P61925;Q96S95;O60239;Q9NS73}  
3084 [Cluster 281]GO:0017111+F molecular\_function [name] nucleoside-triphosphatase activity [def] "Catalysis of the reaction  
3085 Pathogen[ Q2Q067] interacts with 16 human partners:{O75351;Q99741;Q14204;O76031;Q96S55;Q13415;P38935;Q06609;O43502;Q9BYK8;Q8N3C0;Q9UN37;O75943;P25205;P35251;Q8NE71}  
3086 Pathogen[ P0C214] interacts with 19 human partners:{Q06609;Q96S55;O75351;Q14204;P35251;P38935;P25205;Q9BYK8;O76031;Q8N3C0;Q8NE71;O43502;O75943;P35998;Q9UN37;Q99741;P55072;P17980;Q13415}  
3087 Pathogen[ P03346] interacts with 27 human partners:{P38935;Q06609;O43502;P35250;Q14204;P55072;Q8N3C0;O76031;O75943;P25205;Q96S55;O75643;O15315;Q13415;O75771;P35249;P33991;Q8NE71;O75351;P35251;Q9BYK8;O43933;P40937;Q99741;O43929;Q9UN37;Q9UBP0}

3088 Pathogen[ Q85601] interacts with 19 human partners:{O43502;O15315;Q9UBP0;P38935;Q13415;Q14204;O75943;O75351;P25205;P35251;Q9BYK8;Q8NE71;O43933;Q96S55;O76031;Q99741;Q06609;Q9UN37;Q8N3C0}

3089 Pathogen[ P14079] interacts with 25 human partners:{P62333;O15315;Q9BYK8;Q13415;P40937;Q14204;P35998;Q99741;P35250;O75943;P20930;Q96S55;Q8NE71;P35251;O43502;O43929;Q9UN37;P62191;P38935;O75351;P43686;O76031;Q06609;P25205;P17980}

3090 Pathogen[ P03383] interacts with 10 human partners:{Q06609;Q8NE71;P25205;Q96S55;O76031;P38935;Q9UN37;Q9BYK8;Q99741;P35251}

3091 Pathogen[ P03410] interacts with 23 human partners:{Q14204;P25205;O43929;Q8NE71;Q8N3C0;O75943;O15315;O75351;P35998;Q9BYK8;Q96S55;P20930;O76031;P38935;P35251;O43502;Q9UN37;P35250;P40937;P17980;Q06609;Q13415;Q99741}

3092 Pathogen[ P14075] interacts with 10 human partners:{P38935;O76031;P25205;P35251;Q8NE71;Q99741;Q96S55;Q9BYK8;Q06609;Q9UN37}

3093 Pathogen[ P0C206] interacts with 20 human partners:{O43502;O43933;Q9UN37;P38935;P35251;Q9UBP0;P25205;Q99741;O75943;Q9BYK8;Q14204;O15315;Q96S55;P55072;Q8NE71;Q13415;Q06609;O76031;O75351;Q8N3C0}

3094 Pathogen[ P03363] interacts with 20 human partners:{O43933;O75643;P25205;Q14204;P35251;O75351;Q9UN37;Q13415;Q99741;Q9BYK8;O76031;Q96S55;Q8NE71;O75771;Q06609;O75943;P38935;Q8N3C0;O43502;O15315}

3095 [Cluster 282]GO:0004000+F molecular\_function [name] adenosine deaminase activity [def] "Catalysis of the reaction

3096 Pathogen[ Q2Q067] interacts with 1 human partners:{P55265}

3097 Pathogen[ P0C214] interacts with 2 human partners:{P55265;Q9NS39}

3098 Pathogen[ P03346] interacts with 2 human partners:{P55265;Q9NS39}

3099 Pathogen[ Q85601] interacts with 1 human partners:{P55265}

3100 Pathogen[ P14079] interacts with 2 human partners:{Q9NS39;P55265}

3101 Pathogen[ P03383] interacts with 1 human partners:{P55265}

3102 Pathogen[ P03410] interacts with 1 human partners:{P55265}

3103 Pathogen[ P14075] interacts with 1 human partners:{P55265}

3104 Pathogen[ P0C206] interacts with 2 human partners:{P55265;Q9NS39}

3105 Pathogen[ P03363] interacts with 2 human partners:{Q9NS39;P55265}

3106 [Cluster 283]GO:0000975+F molecular\_function [name] regulatory region DNA binding [def] "Interacting selectively and non-covalently with a DNA region that regulates a DNA-based process. Such processes include transcription, DNA replication, and DNA repair." [GOC

3107 Pathogen[ Q2Q067] interacts with 11 human partners:{Q92985;Q01196;P14316;O14896;Q00978;Q14653;Q15306;P10914;Q02556;P19838;Q13568}

3108 Pathogen[ P0C214] interacts with 10 human partners:{P19838;Q13568;P10914;Q00978;Q92985;Q02556;O14896;Q14653;P14316;Q15306}

3109 Pathogen[ P03346] interacts with 11 human partners:{P14316;Q15306;Q00978;P10914;Q02556;O14896;Q14653;Q13568;Q01196;P19838;Q92985}

3110 Pathogen[ Q85601] interacts with 10 human partners:{O14896;P14316;Q02556;Q15306;Q00978;P10914;Q14653;Q92985;P19838;Q13568}

3111 Pathogen[ P14079] interacts with 9 human partners:{Q14653;O14896;Q92985;Q15306;Q13568;Q00978;Q02556;P14316;P10914}

3112 Pathogen[ P03383] interacts with 10 human partners:{P10914;P14316;Q14653;Q15306;Q00978;Q92985;O14896;Q13568;Q02556;P19838}

3113 Pathogen[ P03410] interacts with 10 human partners:{P19838;O14896;Q14653;Q15306;Q13568;Q02556;P10914;P14316;Q92985;Q00978}

3114 Pathogen[ P14075] interacts with 10 human partners:{Q00978;Q02556;Q13568;Q14653;Q15306;P14316;O14896;P19838;Q92985;P10914}

3115 Pathogen[ P0C206] interacts with 10 human partners:{P10914;Q13568;Q15306;Q02556;P19838;Q92985;O14896;Q00978;P14316;Q14653}

3116 Pathogen[ P03363] interacts with 10 human partners:{Q14653;Q92985;O14896;Q02556;Q13568;Q15306;P14316;P10914;P19838;Q00978}

3117 [Cluster 284]GO:0005095+F molecular\_function [name] GTPase inhibitor activity [def] "Stops, prevents or reduces the activity of any enzyme that catalyzes the hydrolysis of GTP to GDP and orthophosphate." [GOC

3118 Pathogen[ Q2Q067] interacts with 3 human partners:{O00410;O43924;Q13227}

3119 Pathogen[ P0C214] interacts with 3 human partners:{Q9NRR8;Q13227;P36404}

3120 Pathogen[ P03346] interacts with 5 human partners:{O00410;Q13098;Q13227;P36404;O43924}

3121 Pathogen[ Q85601] interacts with 4 human partners:{O43924;Q13098;Q13227;O00410}

3122 Pathogen[ P14079] interacts with 5 human partners:{O43924;Q9NRR8;Q13098;O00410;Q13227}

3123 Pathogen[ P03383] interacts with 2 human partners:{Q13227;O00410}

3124 Pathogen[ P03410] interacts with 5 human partners:{Q13227;Q13098;O43924;O00410;Q9NRR8}

3125 Pathogen[ P14075] interacts with 3 human partners:{O00410;Q13227;Q9NRR8}

3126 Pathogen[ P0C206] interacts with 5 human partners:{Q9NRR8;O00410;Q13098;O43924;Q13227}

3127 Pathogen[ P03363] interacts with 4 human partners:{Q13227;O43924;O00410;Q13098}

3128 [Cluster 285]GO:0016208+F molecular\_function [name] AMP binding [def] "Interacting selectively and non-covalently with AMP, adenosine monophosphate." [GOC  
3129 Pathogen[ Q2Q067] interacts with 3 human partners:{P07741;Q9P0M2;P09467}  
3130 Pathogen[ P0C214] interacts with 3 human partners:{P07741;Q9P0M2;P09467}  
3131 Pathogen[ P03346] interacts with 3 human partners:{Q9P0M2;P09467;P07741}  
3132 Pathogen[ Q85601] interacts with 3 human partners:{P07741;P09467;Q9P0M2}  
3133 Pathogen[ P14079] interacts with 3 human partners:{Q9P0M2;P09467;P07741}  
3134 Pathogen[ P03383] interacts with 2 human partners:{P09467;P07741}  
3135 Pathogen[ P03410] interacts with 3 human partners:{P07741;P09467;Q9P0M2}  
3136 Pathogen[ P14075] interacts with 2 human partners:{P07741;P09467}  
3137 Pathogen[ P0C206] interacts with 3 human partners:{P09467;Q9P0M2;P07741}  
3138 Pathogen[ P03363] interacts with 2 human partners:{P07741;Q9P0M2}  
3139 [Cluster 286]GO:0016301+F molecular\_function [name] kinase activity [def] "Catalysis of the transfer of a phosphate group, usually from ATP, to a substrate molecule." [ISBN  
3140 Pathogen[ Q2Q067] interacts with 25 human  
partners:{P22392;P31749;P24385;P19367;O14757;P32189;P14635;O75582;O96017;P24864;P5075  
0;Q13233;P50613;Q96RU7;O14920;P45984;O43318;P49336;P21675;P24941;P11802;O15111;Q15759  
;P51946;Q00534}  
3141 Pathogen[ P0C214] interacts with 45 human  
partners:{Q14410;P51946;O15111;Q14409;P23919;Q8TE04;P21675;Q14164;P50750;P50613;P1180  
2;O94921;P12277;P14635;P24385;Q9Y3D8;P32189;O43318;Q13057;Q96C11;O60825;Q00534;Q13233  
;P21127;Q00536;P14618;O96017;P49336;Q5ZEY9;P24941;P19367;O75582;Q9BZ23;Q96RU7;P24864;  
Q15759;P45984;Q9NWZ5;P16118;P22392;O14757;Q5EBM0;O14920;P00558;P31749}  
3142 Pathogen[ P03346] interacts with 37 human  
partners:{P45984;Q00536;O15111;P24385;O96017;P21127;P49336;P24941;P19367;O14757;P2486  
4;Q8IZE3;Q86Z02;P11802;P31749;P14635;Q8TD19;P51946;P50750;Q9Y3D8;Q13233;O75582;P22392  
;Q96RU7;P21675;Q15759;Q96PY6;P45985;P32189;Q00534;O14920;O94921;O43318;O14965;Q14164;  
Q9NWZ5;O00444}  
3143 Pathogen[ Q85601] interacts with 36 human  
partners:{P51946;Q00536;P31749;P24385;O96017;P50750;Q96PY6;O15111;P49336;O60825;P3218  
9;P16118;P11802;O14757;O14965;Q14164;P14618;P14635;O14920;O94921;O75582;P22392;P50613  
;Q96RU7;Q15759;P45984;P21675;P21127;Q13233;Q00534;O43318;P24941;P51955;Q5ZEY9;P24864;  
P19367}  
3144 Pathogen[ P14079] interacts with 43 human  
partners:{P31751;Q8TE04;Q14004;O95544;Q5EBM0;P53779;P49336;P51946;P52564;Q9UJ70;P2486  
4;P49842;O75582;Q14410;Q96DU7;Q4G0N4;Q14164;Q9NWZ5;P32189;Q96C11;Q14409;P45984;A2RU49  
;Q15078;P45983;P50613;P23919;P14635;P51955;Q9BZ23;P22392;Q16644;Q8IVS8;Q15759;P45985;  
Q13057;P21127;Q96RU7;Q13164;O14965;Q9H999;P21675;P50750}  
3145 Pathogen[ P03383] interacts with 36 human  
partners:{Q9NVV4;O14757;O75582;Q13233;Q8TD19;Q9NWZ5;O14920;P19367;P31749;O15111;P2239  
2;Q00536;P24385;Q00534;P14635;P11802;O43318;P21127;P49336;P50613;P51946;P24941;P50750  
;Q5ZEY9;Q15759;O94921;Q9BZ23;O14965;Q96RU7;Q96PY6;P21675;P32189;P45984;P24864;Q5EBM0;  
O96017}  
3146 Pathogen[ P03410] interacts with 41 human  
partners:{Q8IVS8;Q4G0N4;Q96DU7;O14920;Q8IZE3;Q8TE04;Q00534;Q96C11;Q13057;P16118;P2167  
5;O15111;O75582;Q14410;P51946;Q9NWZ5;P31749;Q5ZEY9;A2RU49;Q13233;P50613;P23919;O14965  
;P50750;O43318;P24385;P14635;P45985;P24941;P11802;O96017;Q5EBM0;O14757;Q9BZ23;P49336;  
Q14409;Q96RU7;P45984;P53779;P32189;P24864}  
3147 Pathogen[ P14075] interacts with 41 human  
partners:{P49336;O15111;P21675;P24941;P11802;Q9NWZ5;Q15759;P14635;O75582;Q8IVS8;P3218  
9;P50613;Q00534;P50750;P19367;Q13057;O14920;P16118;P31749;O96017;O14965;Q8TE04;Q96C11  
;O43318;P49842;P21127;Q9BZ23;P51946;Q96RU7;Q96PY6;P24385;Q13233;O94921;Q9UQ88;Q5EBM0;  
Q9NVV4;O14757;P22392;P24864;P45984;Q8TD19}  
3148 Pathogen[ P0C206] interacts with 51 human  
partners:{P49336;O14920;P31749;Q9Y3D8;P50750;O96017;P22392;P51955;O75582;P45984;Q8TE0  
4;Q13057;Q00536;Q5EBM0;O43318;Q96PY6;O00444;Q9NWZ5;Q9BZ23;Q8TD19;P19367;P32189;Q13233  
;Q5ZEY9;Q96RU7;Q96DU7;P30291;Q14164;P50613;O15111;P45985;O60825;Q96C11;P16118;P21127;  
P14635;O14965;Q8IVS8;P24864;P24941;Q15759;P11802;O94921;Q99640;P14618;Q99986;Q9UIG0;P  
21675;P51946;P24385;Q00534}  
3149 Pathogen[ P03363] interacts with 22 human  
partners:{Q9NWZ5;O14920;P24864;P21127;O15111;P51946;O43318;P24941;Q8IVS8;O96017;Q0053  
4;P31749;Q9Y3D8;P49336;P24385;P21675;P50750;Q8IZE3;P11802;Q00536;Q13233;O14757}  
3150 [Cluster 287]GO:0003747+F molecular\_function [name] translation release factor  
activity [def] "Involved in catalyzing the release of a nascent polypeptide chain from  
a ribosome." [ISBN  
3151 Pathogen[ Q2Q067] interacts with 4 human partners:{Q9H3J6;Q9UGC7;O75570;P62495}  
3152 Pathogen[ P0C214] interacts with 6 human  
partners:{Q9UGC7;P15170;Q14197;O75570;P62495;Q9H3J6}  
3153 Pathogen[ P03346] interacts with 4 human partners:{Q9UGC7;Q9H3J6;P62495;O75570}  
3154 Pathogen[ Q85601] interacts with 5 human  
partners:{P62495;O75570;Q9H3J6;P15170;Q9UGC7}  
3155 Pathogen[ P14079] interacts with 5 human  
partners:{P62495;Q9H3J6;O75570;Q9UGC7;Q14197}  
3156 Pathogen[ P03383] interacts with 4 human partners:{Q9H3J6;O75570;P62495;Q9UGC7}  
3157 Pathogen[ P03410] interacts with 6 human  
partners:{P15170;P62495;Q9UGC7;Q14197;Q9H3J6;O75570}

3158 Pathogen[ P14075] interacts with 4 human partners:{Q9UGC7;P62495;Q9H3J6;O75570}  
3159 Pathogen[ P0C206] interacts with 5 human  
partners:{Q9UGC7;P62495;Q9H3J6;Q14197;O75570}  
3160 Pathogen[ P03363] interacts with 4 human partners:{O75570;P62495;Q9H3J6;Q9UGC7}  
3161 [Cluster 288]GO:0005515+F molecular\_function [name] protein binding [def]  
"Interacting selectively and non-covalently with any protein or protein complex (a  
complex of two or more proteins that may include other nonprotein molecules)." [GOC  
3162 Pathogen[ Q2Q067] interacts with 2578 human  
partners:{Q9BTW9;Q92783;P19012;P04156;Q7Z3C6;O95376;Q68CZ2;Q13562;Q5VSL9;P51398;P4945  
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;Q9H583;Q66PJ3;O43290;Q13573;Q8TCS8;P61313;Q9NQG7;Q9BSU1;Q14526;Q9Y5K5;P30153;Q9NWS1;  
Q12798;O95602;Q2YD98;P83369;Q15054;Q9ULD0;Q9UKI9;Q9Y4R8;Q9Y2J2;Q9UBW5;Q9Y6X3;Q8NHY2;Q  
14151;Q9P2Y5;O14734;Q12905;O43463;Q9UPP1;Q9NNW5;Q8TAF3;Q8IUD2;P33240;Q01082;Q9NWK9;P2  
7540;P17544;O75525;P30281;Q13118;Q8WW35;Q9BZL4;P25490;Q6VMQ6;O60232;P01100;Q96J02;P83  
876;Q8IXJ6;Q99613;Q9UL45;P22392;P46108;Q9UH99;P50402;O00213;Q9Y6X8;Q92585;O75351;Q96H  
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36;Q99747;Q8IZD2;Q4U2R6;Q99502;Q10567;Q9NR28;Q6ZW49;Q96HW7;Q9UPR3;P10827;P04198;P1588  
4;O75663;P20226;Q04726;Q96N03;Q96HR3;Q96KQ4;O15126;Q9HAU4;Q5D1E8;O60294;A9UHW6;Q9Y462  
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6;Q15386;Q15596;P48380;Q8WVM0;O95295;Q9BSW2;Q13405;P08779;Q9Y2Y9;Q96GC5;Q9HCK5;P35712  
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9;Q7Z2E3;Q9HCD5;Q9NX40;Q04206;P36543;Q99551;P49770;P11387;Q9UJY5;Q6ZU52;Q9BXL5;A8MVW5  
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3164

Pathogen[ P03346] interacts with 3045 human partners: {O95166;Q13439;Q15172;Q13425;O60921;P08107;Q9BVJ6;Q9UPR3;Q9Y6N9;Q15723;Q5F1R6;O60437;Q12888;Q13596;Q06330;Q9NVM9;P37802;Q99081;Q9BSI4;Q9NSC5;Q7Z3K3;Q9NZJ0;P85037;Q9NPG3;Q8IYI6;Q06945;P43357;Q9BW60;Q96G01;Q9NQG7;Q9BSU1;P15924;P53805;O75382;Q15833;Q14781;Q9Y5S9;Q8NEA9;P62136;O00204;P54105;Q9UBW5;Q96FV9;Q9Y6D9;Q9Y3Z3;Q9NRI5;O95400;Q9H0A8;P21283;Q969S3;O14925;Q969S8;Q9BZI7;O15265;Q86UT5;P25787;Q9NS91;O60664;P30281;Q86TC9;Q6ZU52;Q9Y6J9;Q96CN9;Q96AP0;Q9BTM9;Q8N2Z9;P21980;Q6PD62;O95201;O75691;Q96ST3;Q9UPN9;Q9Y6K9;P21004;Q6P9B9;Q96J02;P19012;Q8NI51;Q8N3V7;Q96AB3;O14490;Q9BXU7;P23381;Q15427;Q15058;P05412;O00213;P08729;Q92585;Q9H0H0;P46779;Q96CJ1;Q96GY3;Q9ULR5;Q969H4;P56279;Q3KNV8;Q9UQK1;Q13077;Q12874;Q12830;Q15542;Q9GZT8;P02538;Q99615;Q9Y3A2;Q9UFG5;O00463;P09972;P55735;Q99828;P49639;Q7Z7A1;P43378;P46063;Q8ND76;Q86U42;Q5FBB7;O15234;Q96MU7;Q9NQ92;P61978;Q5VIR6;Q8TA86;Q15562;Q9UKT7;Q9UHF7;O95456;P46937;Q9H0C8;Q13263;Q96RK0;Q01534;O15042;Q9BU61;Q15370;Q9ULM6;Q9Y2B0;O00743;Q96P70;O43752;P31260;Q96QK1;O43172;Q7Z4G1;Q06520;Q9H1A3;P78396;Q14746;Q96HJ5;Q9UBS3;O95405;Q15438;Q8NFH4;Q7Z5V6;Q9UBB4;Q99698;P45984;Q00536;Q93009;Q8WUM0;Q9H4X1;Q9Y6K1;Q9P0M2;Q86VQ0;Q02078;Q13542;O60239;Q9GZR1;P38935;P35321;Q8IVM0;Q96B97;Q16666;Q9BYD1;Q9NQX1;Q86UW9;Q8NC51;Q14739;Q09161;P3104

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3165

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Pathogen[ Q85601] interacts with 2643 human partners: 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Pathogen[ P14079] interacts with 2897 human

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3167 Pathogen[ P03383] interacts with 2319 human partners: 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3168

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3169

Pathogen{ P14075} interacts with 2365 human partners: [P60953;P43351;Q9BQI5;Q14457;Q9H6Z4;P42704;Q8N196;Q96EB1;Q3L8U1;Q5VWX1;Q00059;O95453;Q9P2Y5;Q9NZL3;Q92797;Q9P0V3;P52630;Q96MT8;Q9NQG7;Q9BSU1;O75953;Q5VTR2;Q969F1;Q6P2E9;P53804;Q14781;A8MT69;Q9Y5P8;P11387;Q6P4R8;P17480;Q9UBW5;P49336;Q96RL7;P06733;

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Pathogen[ P03363] interacts with 2823 human  
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2;Q9Y5V3;P12980;Q7Z6J0;Q04837;Q6ISU1;Q09666;Q86WH2;Q9UQR1;Q2QGD7;P61981;O00401;Q92541;Q07820;Q15599;Q16385;Q9NRI5;Q9UH77;Q70YC5;Q07955;O00625;O43159;Q8TAD8;Q2VPB7;P53804;O95551;Q96JJ3;Q13114;Q13136;O43660;Q5BJF2;Q8IZQ1;Q9UIL1;Q96NW4;Q9HCI5;P63261;P07315;O43463;Q8WWW0;Q92733;P62277;O75531;O60506;Q9NPNJ6;P60660;Q9H6Z4;Q9HCM9;P14672;O94901;P15884;Q43583;Q92540;O75398;Q01081;O94842;Q15025;Q9NQY0;O95644;Q7Z5H3;Q8TCJ0;Q9Y285;A6NXI2;P78371;Q9UMS6;Q96T88;O60294;Q96NA2;Q8IUR6;Q9UK45;Q96CA5;Q969H6;Q8NE71;Q9UKJ5;Q9H2L5;Q9BQY4;Q86UL8;Q8IVG9;Q96SN7;P35232;P62266;Q9BYX4;Q9BVP2;Q9BZI7;P61978;P05412;Q96MN9;Q8N612;Q6IQ32;Q96PV6;Q9H3R5;Q9NTI5;Q92834;P40424;Q9BZL4;Q15054;Q96G23;O94906;P53992;P78345;O14618;Q96DX5;Q969M7;Q9Y5Y2;Q8IWT3;Q9Y4L5;Q96AJ1;Q5D1E8;Q969L4;Q9BU61;O75843;Q8IWN7;Q9BVS5;Q00613;Q6PJG6;Q9UKT9;Q9NRR3;Q13642;O75386;O15405;Q9Y3E5;Q96J94;Q96CJ1;Q86VP6;O75771;Q8WV22;Q12873;Q7L590;Q9UKF7;P80723;O43900;Q8WU39;P42568;P62424;P28370;O43516;Q04864;Q6ZU15;O95886;Q9H3K2;O95487;Q99816;P55769;P67870;Q15058;O95373;Q9UJW3;Q15059;Q9Y6F6;P52948;Q06609;Q13596;Q9HB96;Q8N3U4;Q9UKL0;Q9C004;Q8IZE3;O14777;O75427;Q9NQR1;O96000;Q9Y296;Q86XR8;Q9NTG7;Q04917;A6NDE4;O60759;O15127;Q96GX9;O15259;Q9Y262;P61247;Q14739;O43745;Q6NVH7;P24534;P61077;Q8IWW8;Q9H446;O95997;Q9H204;O60573;Q96CM3;P55210;Q12789;O75146;Q8TEQ6;Q9UHN1;Q9Y6B2;Q9Y4P1;Q9NQ92;O14776;Q9Y224;Q96Q7;O60333;Q14157;Q5T3J3;Q13144;Q9NQZ3;O43918;Q9Y3A2;Q9UNA4;P61956;P09629;Q9H8W4;Q93034;Q9P1A6;Q7L2E3;O00165;Q9NVP1;Q96EN9;Q2M3C7;O14508;Q9Y3D3;P02489;Q00839;Q8N729;P61962;Q12834;P55197;Q14008;P09874;Q13084;P62308;Q8TDH9;Q9NQ31;Q7Z4G1;Q14687;Q9UJM3;P41970;Q9NR33;Q9P013;Q16637;Q9GZU7;Q8WTR7;Q14207;Q9UKF6;Q96MG7;Q86XI8;Q9Y2Y0;Q8NHY2;Q9Y3A3;O14490;P24855;Q13363;Q8WW38;Q9Y448;P84103;Q06587;Q9GZL1;Q8IVM0;Q9NXC3;Q9UKT7;P82094;O43156;Q13541;Q9NPN9;O75821;O43663;Q86YF9;Q96N03;P51116;Q562F6;Q8IX03;Q8N5C8;O75152;Q9UKN8;Q9NS69;Q15560;Q6W2J9;Q86VW0;Q9H2C0;Q14676;Q9Y6D6;O43390;Q9ULM3;P07814;P78344;Q9BUZ4;P48380;Q96KR1;O00716;Q8NFX9;Q13761;Q9NXR1;Q9H9D4;Q9Y248;Q9NXB0;Q96PU4;Q96NY9;Q8WXF1;Q9Y6R0;Q01105;Q9UKC9;O43261;P62995;Q14493;Q14141;P23258;O00139;Q9NPC6;P37198;O43829;Q01658;Q96C86;Q43255;Q8TF76;Q9BQI5;Q9UBD5;Q9BWU0;P51531;Q9NX44;P30153;Q9Y4B6;Q8TF46;P18754;Q92922;P14678;P43355;Q8WTS6;Q86WJ1;Q99719;Q9NWS1;O14556;Q15543;P17544;Q9P2R6;P52435;Q9UBZ9;Q00577;Q9NWK9;P04264;Q6NZ67;P30307;Q96EY1;P48553;Q13287;Q7Z5K2;Q2TAZ0;Q9NZJ0;Q8N3F8;Q676U5;Q8N2W9;P30281;O75943;Q9P0W2;P62854;P35573;Q96CB8;O94874;Q86SQ7;O95810;Q8N6I1;Q68CP9;O95503;Q8N1E6;P09661;Q96JB5;P62826;Q08211;Q8TF05;O14641;Q9NS91;Q9UBC3;P52292;O15235;P41212;P19429;Q9NRD1;Q9NR12;Q9UJY5;Q9UQB3;Q9UJU5;Q9P267;Q9H9T3;Q9UFN0;Q9U7W2;O43734;P09497;Q8NF64;O43752;Q13813;Q99590;Q9UK73;Q9NS73;P55884;Q13137;O43715;Q0VDF9;O15042;Q8IY18;O43708;Q9UJT2;Q9H6S0;Q92621;Q8HWS3;O95251;Q99459;Q8TD16;P15172;Q8WV99;Q14764;Q9UID6;Q96MH2;Q05516;Q96HA7;Q7Z417;Q9P2B4;O43513;Q9BUJ2;P51398;Q8WXF8;P33240;Q16658;O75688;Q0765;Q15561;O60518;P60953;Q9GZX5;O00541;Q9Y5N6;Q99717;Q9BYC9;P08238;O60238;Q9UBC1;Q96G25;Q5T2W1;O96018;O60716;P25208;P43356;P53675;O00170;Q8IUD2;Q06520;Q8TBN0;O00257;Q15047;P24666;Q15154;Q9UBD0;Q8N7H5;Q96B67;P46976;Q6ZTQ3;Q9NRC8;Q8WYQ5;Q6NUP7;O75525;Q15643;Q9H4I2;Q9BTA9;Q8TF74;Q9P2M7;P51825;P27986;Q96MF7;O95166;Q5H9R7;Q12926;Q9NP66;Q76FK4;Q00536;Q86Y97;P67775;P10589;Q6P1X5;Q969S3;Q9Y6G5;Q6QNY0;P63208;Q8NBZ0;Q8TBE0;P06730;P13056;Q8WYH8;Q99594;Q14678;Q70EL1;O43324;Q5VWG9;Q93008;Q86XL3;Q15329;Q9UMX3;Q9NUP1;Q99933;P55735;Q14683;Q9NXV6;Q14203;P78347;Q9UJW9;Q9Y5Q3;Q9Y5K6;Q8N9B5;Q13233;P04792;Q15696;Q01664;Q8IXH6;Q96HR8;Q8WVJ9;Q12982;Q99767;Q99747;Q9ULX6;Q9Y5Q8;Q9BVI4;O75182;P55327;Q2M2Z5;Q9UII4;A6NDB9;Q9BYE7;O43236;Q9BSJ2;Q86TP1;P15036;Q9NPI6;Q9HD26;O95833;Q9Y2J2;Q9UKG1;Q92993;P02794;P38935;Q9Y6J9;Q01860;Q9Y5S9;Q6ZRQ5;O94817;Q9H074;Q9P2Y4;Q9BXTJ9;Q9H5Z6;Q6R327;Q15003;Q9BUL9;Q14315;Q12824;P42771;Q53HV7;Q86TG7;Q8WVV9;Q9BV73;Q03060;Q96FS4;Q8IZH2;P38432;Q9BQ70;P23297;Q15942;Q9H469;Q6PJ61;O00291;O60516;Q15276;Q14151;Q7Z7E8;Q9H944;O15145;Q99551;O14576;O60711;Q9H1Y0;Q92905;Q10567;Q9H1B4;Q9BW27;O75419;O43257;P68104;Q9H2H8;Q12840;O43251;Q6P4R8;O14503;Q9UNP9;Q96FW1;O14686;O75528;P11142;P55854;Q9NRY2;Q12888;Q15906;Q8IXT5;Q92585;Q92698;P07737;O14639;Q13094;O75822;Q5T447;P22670;Q99873;Q96B01;Q9NX40;Q9NNW5;Q8WXE1;Q12815;A8MT69;Q96CN9;O43791;P61604;O75494;Q8WY54;Q9HD42;A0AVT1;Q15038;Q3YEC7;Q15102;Q04743;O75569;Q9NQ94;P51610;P67809;P10916;P05937;O15511;Q8IU60;Q96DI7;Q9BUN5;O94776;Q04695;Q86YC2;Q9Y5A7;O15397;Q96AX9;Q9UPT5;Q8N3C0;Q96KN7;Q9P2A4;Q13424;Q13542;Q6PJT7;Q96QF0;Q9UHD9;P52747;Q9Y221;O75928;P68036;Q6PD62;Q8TAP9;P28324;Q13118;Q8N8A2;Q9UH99;P23511;P49368;Q68DX3;Q96CW1;O60216;Q09161;Q6UVJ0;O43502;O95831;Q15833;O43299;O75665;Q8N7J2;P46783;Q99689;Q96CW5;Q9UBB5;Q02577;Q92754;Q9UIS9;Q16594;Q96SN8;Q08AD1;Q9C0H9;Q9GZY8;Q99613;Q8TEL6;Q04637;Q9H1J1;Q9H5J8;Q9HAZ2;O00303;Q9UQC2;O15315;P01100;Q96M61;P52294;P42285;O15234;O14757;O43913;Q8N137;Q9Y314;Q8N8U2;Q9NX95;Q12816;Q15819;Q14192;P11161;Q8NDT2;P53990;Q8N3Y1;Q9Y2P7;O00482;Q5SW79;P52756;Q9BRP4;Q9Y281;Q9UJC3;Q53GL7;Q02078;Q96JB2;Q9Y3C7}

- 3172 [Cluster 289]GO:0008995+F molecular\_function [name] ribonuclease E activity [def] "Catalysis of the cleavage of single-stranded RNA that is monophosphorylated at its 5'-end\_ cleavage occurs predominantly at 5 nucleotides from the 5'-end and in A + U-rich regions, and is blocked by the presence of a 5'-triphosphate group." [PMID
- 3173 Pathogen[ Q2Q067] interacts with 1 human partners:{Q12972}
- 3174 Pathogen[ P0C214] interacts with 1 human partners:{Q12972}
- 3175 Pathogen[ P03346] interacts with 1 human partners:{Q12972}
- 3176 Pathogen[ Q85601] interacts with 1 human partners:{Q12972}
- 3177 Pathogen[ P14079] interacts with 1 human partners:{Q12972}
- 3178 Pathogen[ P03383] interacts with 1 human partners:{Q12972}
- 3179 Pathogen[ P03410] interacts with 1 human partners:{Q12972}
- 3180 Pathogen[ P14075] interacts with 1 human partners:{Q12972}

3181 Pathogen[ P0C206] interacts with 1 human partners:{Q12972}  
3182 Pathogen[ P03363] interacts with 1 human partners:{Q12972}  
3183 [Cluster 290]GO:0032575+F molecular\_function [name] ATP-dependent 5'-3' RNA helicase activity [def] "Catalysis of the reaction  
3184 Pathogen[ Q2Q067] interacts with 1 human partners:{P38935}  
3185 Pathogen[ P0C214] interacts with 1 human partners:{P38935}  
3186 Pathogen[ P03346] interacts with 1 human partners:{P38935}  
3187 Pathogen[ Q85601] interacts with 1 human partners:{P38935}  
3188 Pathogen[ P14079] interacts with 1 human partners:{P38935}  
3189 Pathogen[ P03383] interacts with 1 human partners:{P38935}  
3190 Pathogen[ P03410] interacts with 1 human partners:{P38935}  
3191 Pathogen[ P14075] interacts with 1 human partners:{P38935}  
3192 Pathogen[ P0C206] interacts with 1 human partners:{P38935}  
3193 Pathogen[ P03363] interacts with 1 human partners:{P38935}  
3194 [Cluster 291]GO:000268+F molecular\_function [name] peroxisome targeting sequence binding [def] "Interacting selectively and non-covalently with a peroxisomal targeting sequence, any of several sequences of amino acids within a protein that can act as a signal for the localization of the protein into the peroxisome." [GOC  
3195 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NXR7}  
3196 Pathogen[ P0C214] interacts with 1 human partners:{Q9NXR7}  
3197 Pathogen[ P03346] interacts with 2 human partners:{Q9NXR7;P50542}  
3198 Pathogen[ Q85601] interacts with 1 human partners:{Q9NXR7}  
3199 Pathogen[ P14079] interacts with 2 human partners:{P50542;Q9NXR7}  
3200 Pathogen[ P03383] interacts with 1 human partners:{Q9NXR7}  
3201 Pathogen[ P03410] interacts with 2 human partners:{Q9NXR7;P50542}  
3202 Pathogen[ P14075] interacts with 1 human partners:{Q9NXR7}  
3203 Pathogen[ P0C206] interacts with 2 human partners:{P50542;Q9NXR7}  
3204 Pathogen[ P03363] interacts with 1 human partners:{Q9NXR7}  
3205 [Cluster 292]GO:0032093+F molecular\_function [name] SAM domain binding [def] "Interacting selectively and non-covalently with a SAM (Sterile Alpha Motif) domain, which is a 70-amino acid protein sequence that participates in protein-protein, protein-lipid, and protein-RNA interactions and is conserved from lower to higher eukaryotes." [GOC  
3206 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9Y468}  
3207 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y468}  
3208 Pathogen[ P03346] interacts with 1 human partners:{Q9Y468}  
3209 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y468}  
3210 Pathogen[ P14079] interacts with 1 human partners:{Q9Y468}  
3211 Pathogen[ P03383] interacts with 1 human partners:{Q9Y468}  
3212 Pathogen[ P03410] interacts with 1 human partners:{Q9Y468}  
3213 Pathogen[ P14075] interacts with 1 human partners:{Q9Y468}  
3214 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y468}  
3215 Pathogen[ P03363] interacts with 1 human partners:{Q9Y468}  
3216 [Cluster 293]GO:0030898+F molecular\_function [name] actin-dependent ATPase activity [def] "Catalysis of the reaction  
3217 Pathogen[ Q2Q067] interacts with 3 human partners:{P60660;P12883;P35579}  
3218 Pathogen[ P0C214] interacts with 5 human partners:{P60660;P35580;P12883;Q7Z406;P13533}  
3219 Pathogen[ P03346] interacts with 2 human partners:{P60660;P35579}  
3220 Pathogen[ Q85601] interacts with 6 human partners:{P13533;P35579;Q7Z406;P12883;P35580;P60660}  
3221 Pathogen[ P14079] interacts with 3 human partners:{P35579;P60660;P12883}  
3222 Pathogen[ P03383] interacts with 3 human partners:{P12883;P35580;P35579}  
3223 Pathogen[ P03410] interacts with 5 human partners:{P35579;P12883;P35580;P13533;P60660}  
3224 Pathogen[ P14075] interacts with 1 human partners:{P35579}  
3225 Pathogen[ P0C206] interacts with 5 human partners:{P13533;P60660;P12883;P35579;P35580}  
3226 Pathogen[ P03363] interacts with 2 human partners:{P35579;P60660}  
3227 [Cluster 294]GO:0043014+F molecular\_function [name] alpha-tubulin binding [def] "Interacting selectively and non-covalently with the microtubule constituent protein alpha-tubulin." [GOC  
3228 Pathogen[ Q2Q067] interacts with 4 human partners:{Q8NCR6;P49354;O75665;Q9ULG1}  
3229 Pathogen[ P0C214] interacts with 4 human partners:{P49354;Q8NCR6;Q9ULG1;O75665}  
3230 Pathogen[ P03346] interacts with 6 human partners:{Q9ULG1;Q8NCR6;A8K0Z3;P49354;O75665;Q9UBP0}  
3231 Pathogen[ Q85601] interacts with 5 human partners:{Q9UBP0;P49354;O75665;Q9ULG1;Q9GZM8}  
3232 Pathogen[ P14079] interacts with 8 human partners:{Q9ULG1;P49354;Q6VEQ5;Q9NQA3;Q9GZM8;A8K0Z3;O75665;Q8NCR6}  
3233 Pathogen[ P03383] interacts with 2 human partners:{Q8NCR6;O75665}  
3234 Pathogen[ P03410] interacts with 8 human partners:{O75665;P49354;Q9GZM8;Q8NCR6;Q9ULG1;Q6VEQ5;Q9NQA3;A8K0Z3}  
3235 Pathogen[ P14075] interacts with 2 human partners:{O75665;Q8NCR6}  
3236 Pathogen[ P0C206] interacts with 7 human partners:{Q9UBP0;Q8NCR6;P49354;Q9GZM8;Q6VEQ5;Q9ULG1;O75665}

3237 Pathogen[ P03363] interacts with 4 human partners:{Q9ULG1;P49354;Q8NCR6;O75665}

3238 [Cluster 295]GO:0016813+F molecular\_function [name] hydrolase activity, acting on carbon-nitrogen (but not peptide) bonds, in linear amidines [def] "Catalysis of the hydrolysis of any non-peptide carbon-nitrogen bond in a linear amidine, a compound of the form R-C(=NH)-NH2." [ISBN

3239 Pathogen[ Q2Q067] interacts with 1 human partners:{O95865}

3240 Pathogen[ P0C214] interacts with 2 human partners:{P50440;O95865}

3241 Pathogen[ P03346] interacts with 1 human partners:{O95865}

3242 Pathogen[ Q85601] interacts with 1 human partners:{O95865}

3243 Pathogen[ P14079] interacts with 2 human partners:{P50440;O95865}

3244 Pathogen[ P03383] interacts with 1 human partners:{O95865}

3245 Pathogen[ P03410] interacts with 2 human partners:{O95865;P50440}

3246 Pathogen[ P14075] interacts with 2 human partners:{O95865;P50440}

3247 Pathogen[ P0C206] interacts with 2 human partners:{O95865;P50440}

3248 Pathogen[ P03363] interacts with 1 human partners:{O95865}

3249 [Cluster 296]GO:0051747+F molecular\_function [name] cytosine C-5 DNA demethylase activity [def] "Catalysis of the reaction

3250 Pathogen[ Q2Q067] interacts with 2 human partners:{Q6NS38;Q96Q83}

3251 Pathogen[ P0C214] interacts with 2 human partners:{Q6NS38;Q96Q83}

3252 Pathogen[ P03346] interacts with 1 human partners:{Q96Q83}

3253 Pathogen[ Q85601] interacts with 2 human partners:{Q6NS38;Q96Q83}

3254 Pathogen[ P14079] interacts with 2 human partners:{Q6NS38;Q96Q83}

3255 Pathogen[ P03383] interacts with 1 human partners:{Q96Q83}

3256 Pathogen[ P03410] interacts with 2 human partners:{Q96Q83;Q6NS38}

3257 Pathogen[ P14075] interacts with 1 human partners:{Q96Q83}

3258 Pathogen[ P0C206] interacts with 2 human partners:{Q96Q83;Q6NS38}

3259 Pathogen[ P03363] interacts with 1 human partners:{Q96Q83}

3260 [Cluster 297]GO:0042162+F molecular\_function [name] telomeric DNA binding [def] "Interacting selectively and non-covalently with a telomere, a specific structure at the end of a linear chromosome required for the integrity and maintenance of the end." [GOC

3261 Pathogen[ Q2Q067] interacts with 10 human partners:{Q12888;Q9NYB0;Q15554;P54274;Q9BSI4;Q14103;Q86US8;O14746;P19338;P13010}

3262 Pathogen[ P0C214] interacts with 10 human partners:{O14746;P13010;Q9BSI4;Q15554;Q86US8;Q14103;Q9NYB0;Q12888;P19338;P54274}

3263 Pathogen[ P03346] interacts with 10 human partners:{Q12888;Q9BSI4;Q86US8;Q15554;P54274;P13010;P19338;Q14103;O14746;Q9NYB0}

3264 Pathogen[ Q85601] interacts with 9 human partners:{Q15554;Q14103;P19338;Q12888;Q86US8;O14746;Q9NYB0;P54274;P13010}

3265 Pathogen[ P14079] interacts with 10 human partners:{P54274;O14746;Q14103;P13010;Q9BSI4;Q86US8;P19338;Q9NYB0;Q15554;Q12888}

3266 Pathogen[ P03383] interacts with 10 human partners:{Q12888;P13010;P19338;Q9NYB0;Q15554;Q86US8;Q9BSI4;Q14103;O14746;P54274}

3267 Pathogen[ P03410] interacts with 10 human partners:{Q14103;Q15554;O14746;P54274;Q9BSI4;P19338;Q12888;Q86US8;P13010;Q9NYB0}

3268 Pathogen[ P14075] interacts with 10 human partners:{P19338;O14746;Q14103;Q15554;Q9BSI4;P54274;Q86US8;Q12888;P13010;Q9NYB0}

3269 Pathogen[ P0C206] interacts with 10 human partners:{Q14103;P13010;Q15554;P19338;Q9BSI4;P54274;Q12888;Q86US8;Q9NYB0;O14746}

3270 Pathogen[ P03363] interacts with 10 human partners:{P19338;Q15554;P13010;Q86US8;Q9NYB0;O14746;Q9BSI4;P54274;Q14103;Q12888}

3271 [Cluster 298]GO:0000049+F molecular\_function [name] tRNA binding [def] "Interacting selectively and non-covalently with transfer RNA." [GOC

3272 Pathogen[ Q2Q067] interacts with 17 human partners:{O95363;Q9BY44;Q9Y285;Q7Z7A3;Q15046;Q9UBP6;P38935;P18077;Q08J23;Q12904;Q9HD40;P57772;Q9HAV4;P54136;Q6PI48;O43592;P49589}

3273 Pathogen[ P0C214] interacts with 21 human partners:{P49589;Q12904;O95363;Q9BY44;P57772;P18077;Q9Y285;Q5JTZ9;Q9HAV4;P38935;P56192;Q08J23;O43592;P54577;P49588;Q9UBP6;Q7Z7A3;Q6PI48;Q9HD40;Q15046;Q9Y2Z4}

3274 Pathogen[ P03346] interacts with 15 human partners:{Q08J23;P38935;Q9HAV4;P57772;O43592;Q12904;Q9Y285;Q7Z7A3;P54136;Q9HD40;Q9UBP6;P49589;Q9BY44;Q6PI48;P18077}

3275 Pathogen[ Q85601] interacts with 16 human partners:{P54136;Q9HAV4;P18077;P57772;P49589;Q9HD40;P38935;Q9UBP6;Q9BY44;Q15046;Q9Y285;Q08J23;Q7Z7A3;O95363;Q6PI48;O43592}

3276 Pathogen[ P14079] interacts with 23 human partners:{Q9Y285;Q9BRP7;P54136;Q9BY44;P57772;O43592;O95363;P18077;O75648;P49589;Q15046;Q08J23;P56192;Q9NWX6;Q9Y2Z4;P38935;Q9HAV4;Q96Q11;Q12904;P49588;Q9HD40;Q6PI48;Q7Z7A3}

3277 Pathogen[ P03383] interacts with 18 human partners:{Q9Y285;Q12904;Q9HD40;P57772;Q7Z7A3;P49589;Q9UBP6;Q9BY44;P18077;Q9HAV4;Q15046;Q08J23;Q9Y2Z4;O95363;Q6PI48;P38935;O43592;P54136}

3278 Pathogen[ P03410] interacts with 25 human partners:{Q9BRP7;O75648;Q96Q11;Q9Y285;O75127;P56192;P49589;Q9UBP6;P49588;P54136;Q7Z7A3;Q12904;P18077;P38935;Q15046;P57772;Q08J23;Q9HD40;Q9BY44;Q9Y2Z4;Q9HAV4;O43592;Q9NWX6;O95363;Q6PI48}

3279 Pathogen[ P14075] interacts with 20 human



3280 partners:{Q9Y2Z4;P54136;O75648;P57772;P38935;O95363;Q9HAV4;O43592;Q9Y285;Q9HD40;P56192;Q12904;P18077;Q7Z7A3;Q9UBP6;Q6PI48;P49589;Q08J23;Q15046;Q9BY44}  
Pathogen[ P0C206] interacts with 20 human  
partners:{P49589;O95363;Q08J23;P38935;Q9Y2Z4;Q9UBP6;O43592;Q6PI48;Q9BRP7;Q9HD40;Q9HAV4;P18077;Q9Y285;P57772;P56192;P54136;Q9BY44;Q12904;Q7Z7A3;Q15046}

3281 Pathogen[ P03363] interacts with 17 human  
partners:{Q9Y2Z4;Q9HD40;P18077;Q08J23;Q9BY44;Q9HAV4;P49589;P57772;Q7Z7A3;Q9UBP6;P54136;Q6PI48;O95363;Q9Y285;P05455;O43592;P38935}

3282 [Cluster 299]GO:0005100+F molecular\_function [name] Rho GTPase activator activity  
[def] "Increases the rate of GTP hydrolysis by a GTPase of the Rho family." [GOC  
3283 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UJM3}  
3284 Pathogen[ P0C214] interacts with 4 human partners:{Q9UJM3;O14613;P05412;P98171}  
3285 Pathogen[ P03346] interacts with 4 human partners:{P05412;P98171;O14613;Q9UJM3}  
3286 Pathogen[ Q85601] interacts with 3 human partners:{P05412;O14613;Q9UJM3}  
3287 Pathogen[ P14079] interacts with 4 human partners:{O14613;Q9UJM3;P98171;P05412}  
3288 Pathogen[ P03383] interacts with 2 human partners:{Q9UJM3;P05412}  
3289 Pathogen[ P03410] interacts with 4 human partners:{P98171;O14613;P05412;Q9UJM3}  
3290 Pathogen[ P14075] interacts with 3 human partners:{P05412;Q9UJM3;O14613}  
3291 Pathogen[ P0C206] interacts with 4 human partners:{O14613;P05412;P98171;Q9UJM3}  
3292 Pathogen[ P03363] interacts with 4 human partners:{P98171;O14613;P05412;Q9UJM3}

3293 [Cluster 300]GO:0042609+F molecular\_function [name] CD4 receptor binding [def]  
"Interacting selectively and non-covalently with a CD4, a receptor found on the surface  
of T cells, monocytes and macrophages." [GOC  
3294 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9NZD8;O15162}  
3295 Pathogen[ P0C214] interacts with 2 human partners:{Q9NZD8;O15162}  
3296 Pathogen[ P03346] interacts with 2 human partners:{Q9NZD8;O15162}  
3297 Pathogen[ Q85601] interacts with 1 human partners:{O15162}  
3298 Pathogen[ P14079] interacts with 2 human partners:{Q9NRQ2;O15162}  
3299 Pathogen[ P03383] interacts with 2 human partners:{Q9NZD8;O15162}  
3300 Pathogen[ P03410] interacts with 2 human partners:{Q9NRQ2;O15162}  
3301 Pathogen[ P14075] interacts with 2 human partners:{O15162;Q9NZD8}  
3302 Pathogen[ P0C206] interacts with 1 human partners:{O15162}  
3303 Pathogen[ P03363] interacts with 1 human partners:{Q9NZD8}

3304 [Cluster 301]GO:0000386+F molecular\_function [name] second spliceosomal  
transesterification activity [def] "Catalysis of the second transesterification  
reaction of spliceosomal mRNA splicing. Ligation of the two exons occurs via a  
transesterification reaction where the free 3'-hydroxyl group of the 5' exon is the  
nucleophile attacking the 3' splice site. Non-expressed sequences are now detached from  
the exons. In cis splicing, the intron is in a lariat structure." [GOC  
3305 Pathogen[ Q2Q067] interacts with 1 human partners:{O95391}  
3306 Pathogen[ P0C214] interacts with 1 human partners:{O95391}  
3307 Pathogen[ P03346] interacts with 1 human partners:{O95391}  
3308 Pathogen[ Q85601] interacts with 1 human partners:{O95391}  
3309 Pathogen[ P14079] interacts with 1 human partners:{O95391}  
3310 Pathogen[ P03383] interacts with 1 human partners:{O95391}  
3311 Pathogen[ P03410] interacts with 1 human partners:{O95391}  
3312 Pathogen[ P14075] interacts with 1 human partners:{O95391}  
3313 Pathogen[ P0C206] interacts with 1 human partners:{O95391}  
3314 Pathogen[ P03363] interacts with 1 human partners:{O95391}

3315 [Cluster 302]GO:0042289+F molecular\_function [name] MHC class II protein binding [def]  
"Interacting selectively and non-covalently with major histocompatibility complex class  
II molecules\_ a set of molecules displayed on cell surfaces that are responsible for  
lymphocyte recognition and antigen presentation." [GOC  
3316 Pathogen[ Q2Q067] interacts with 1 human partners:{Q04695}  
3317 Pathogen[ P0C214] interacts with 1 human partners:{Q04695}  
3318 Pathogen[ P03346] interacts with 1 human partners:{Q04695}  
3319 Pathogen[ Q85601] interacts with 1 human partners:{Q04695}  
3320 Pathogen[ P14079] interacts with 1 human partners:{Q04695}  
3321 Pathogen[ P03383] interacts with 1 human partners:{Q04695}  
3322 Pathogen[ P03410] interacts with 1 human partners:{Q04695}  
3323 Pathogen[ P14075] interacts with 1 human partners:{Q04695}  
3324 Pathogen[ P0C206] interacts with 1 human partners:{Q04695}  
3325 Pathogen[ P03363] interacts with 1 human partners:{Q04695}

3326 [Cluster 303]GO:0002039+F molecular\_function [name] p53 binding [def] "Interacting  
selectively and non-covalently with one of the p53 family of proteins." [GOC  
3327 Pathogen[ Q2Q067] interacts with 24 human  
partners:{Q93009;Q16594;Q12888;Q9NXV6;Q8N9N5;Q9UER7;P15976;O15350;Q9NPI1;Q8N726;Q9NRG4;  
P61289;Q96PM5;P51532;Q15327;O15164;Q5VTR2;Q12824;Q9HCK8;Q92793;P21675;Q5VWG9;Q00987;  
Q8WTS6}

3328 Pathogen[ P0C214] interacts with 24 human  
partners:{Q15327;Q96PM5;Q12824;P21675;Q00987;O15350;Q92793;Q8N9N5;Q8N726;Q16594;Q5VWG9;  
Q9UER7;Q9HCK8;P10809;Q93009;Q9NXV6;O15164;Q9NPI1;Q12888;Q8WTS6;Q9NQR1;Q5VTR2;Q9NRG4;  
P51532}

3329 Pathogen[ P03346] interacts with 27 human  
partners:{Q12888;Q93009;Q6PCD5;Q5VTR2;Q9NQR1;P51532;Q96PM5;Q15327;Q9NPI1;Q12824;O15350;  
Q9NXV6;Q00987;Q9NRG4;Q14694;P15976;Q8WTS6;Q9HCK8;Q9UER7;Q8N9N5;P61289;P21675;Q92793}



;Q8N726;Q5VWG9;O15164;Q16594}  
3330 Pathogen[ Q85601] interacts with 26 human  
partners:{Q93009;P15976;P61289;Q9NQR1;Q6PCD5;Q96PM5;Q9UER7;O15164;Q16594;Q5VWG9;Q12888;P51532;Q8N726;Q8WTS6;Q15327;Q8N9N5;Q9NPI1;Q5VTR2;Q9HCK8;P21675;O15350;Q9NRG4;Q92793;Q00987;Q12824;Q9NXV6}  
3331 Pathogen[ P14079] interacts with 25 human  
partners:{Q9NPI1;O15164;Q9NRG4;Q16594;Q92793;P51532;Q9NXV6;Q8N726;P15976;P61289;O15350;Q00987;Q8N9N5;Q9UER7;Q5VTR2;Q9NQR1;Q9HCK8;Q15327;P15941;Q12824;Q12888;P28360;Q5VWG9;Q8WTS6;P21675}  
3332 Pathogen[ P03383] interacts with 21 human  
partners:{Q12888;Q12824;Q9NRG4;Q5VWG9;Q8WTS6;Q16594;Q8N9N5;Q96PM5;O15350;Q9UER7;Q5VTR2;Q15327;Q9HCK8;P21675;P51532;Q9NPI1;P61289;Q9NXV6;Q9NQR1;Q92793;Q8N726}  
3333 Pathogen[ P03410] interacts with 23 human  
partners:{Q5VWG9;Q8N726;P21675;P15941;Q8N9N5;Q8WTS6;Q9NXV6;Q5VTR2;Q15327;Q92793;Q9UER7;Q9NQR1;Q9HCK8;P51532;Q16594;Q12888;O15350;Q00987;Q12824;P15976;Q9NPI1;P61289;Q9NRG4}  
3334 Pathogen[ P14075] interacts with 21 human  
partners:{Q5VTR2;Q9NXV6;Q96PM5;Q8N9N5;P21675;Q9NPI1;P51532;Q15327;Q9NQR1;Q16594;Q5VWG9;O15350;Q9HCK8;Q12824;Q92793;Q12888;Q9UER7;P61289;Q9NRG4;Q8N726;Q8WTS6}  
3335 Pathogen[ P0C206] interacts with 26 human  
partners:{P61289;Q9HCK8;Q6PCD5;Q8N9N5;P51532;Q9NPI1;Q8N726;Q15327;Q9NRG4;Q9NXV6;Q9UER7;O15164;Q93009;Q12824;P15976;Q5VTR2;Q92793;Q12888;Q9NQR1;Q8WTS6;Q5VWG9;O15350;Q96PM5;Q00987;P21675;Q16594}  
3336 Pathogen[ P03363] interacts with 21 human  
partners:{P51532;Q8N9N5;Q5VTR2;Q9UER7;P61289;Q15327;Q9HCK8;Q9NRG4;Q6PCD5;Q9NPI1;Q96PM5;Q92793;P21675;Q8N726;Q9NQR1;Q8WTS6;Q5VWG9;Q9NXV6;Q12824;Q12888;Q16594}  
3337 [Cluster 304]GO:0000993+F molecular\_function [name] RNA polymerase II core binding [def] "Interacting selectively and non-covalently with RNA polymerase II core enzyme, a multisubunit eukaryotic nuclear RNA polymerase typically composed of twelve subunits." [GOC  
3338 Pathogen[ Q2Q067] interacts with 9 human  
partners:{Q2YD98;Q6P1J9;Q9NRG4;Q9NQG5;Q5BKZ1;Q8N7H5;Q9BTA9;Q8N163;Q9Y224}  
3339 Pathogen[ P0C214] interacts with 8 human  
partners:{Q5BKZ1;Q8N163;Q9Y224;Q6P1J9;Q9NQG5;Q8N7H5;Q9BTA9;Q9NRG4}  
3340 Pathogen[ P03346] interacts with 9 human  
partners:{Q9NQG5;Q8N163;Q9NRG4;Q9Y224;Q2YD98;Q6P1J9;Q8N7H5;Q9BTA9;Q5BKZ1}  
3341 Pathogen[ Q85601] interacts with 8 human  
partners:{Q6P1J9;Q9BTA9;Q9NQG5;Q8N163;Q9NRG4;Q5BKZ1;Q9Y224;Q8N7H5}  
3342 Pathogen[ P14079] interacts with 9 human  
partners:{Q8N163;Q9NRG4;Q9BTA9;Q5BKZ1;Q6P1J9;Q2YD98;Q9Y224;Q8N7H5;Q9NQG5}  
3343 Pathogen[ P03383] interacts with 9 human  
partners:{Q6P1J9;Q9BTA9;Q8N163;Q9NRG4;Q9NQG5;Q2YD98;Q8N7H5;Q9Y224;Q5BKZ1}  
3344 Pathogen[ P03410] interacts with 9 human  
partners:{Q9NQG5;Q9Y224;Q8N7H5;Q8N163;Q2YD98;Q6P1J9;Q5BKZ1;Q9BTA9;Q9NRG4}  
3345 Pathogen[ P14075] interacts with 9 human  
partners:{Q5BKZ1;Q9Y224;Q9NQG5;Q8N163;Q8N7H5;Q6P1J9;Q2YD98;Q9BTA9;Q9NRG4}  
3346 Pathogen[ P0C206] interacts with 9 human  
partners:{Q9Y224;Q2YD98;Q9NRG4;Q9NQG5;Q5BKZ1;Q8N7H5;Q9BTA9;Q8N163;Q6P1J9}  
3347 Pathogen[ P03363] interacts with 9 human  
partners:{Q2YD98;Q5BKZ1;Q9NRG4;Q6P1J9;Q9NQG5;Q8N163;Q9Y224;Q8N7H5;Q9BTA9}  
3348 [Cluster 305]GO:0003906+F molecular\_function [name] DNA-(apurinic or apyrimidinic site) lyase activity [def] "Catalysis of the cleavage of the C-O-P bond 3' to the apurinic or apyrimidinic site in DNA by a beta-elimination reaction, leaving a 3'-terminal unsaturated sugar and a product with a terminal 5'-phosphate." [EC  
3349 Pathogen[ Q2Q067] interacts with 7 human  
partners:{Q969S2;P27695;Q8IW19;O15527;P78549;P23396;P17096}  
3350 Pathogen[ P0C214] interacts with 6 human  
partners:{Q8IW19;P27695;P23396;P17096;P78549;O15527}  
3351 Pathogen[ P03346] interacts with 8 human  
partners:{Q8IW19;P17096;Q969S2;P78549;P23396;P27695;O15527;Q9UBZ4}  
3352 Pathogen[ Q85601] interacts with 9 human  
partners:{Q9UBZ4;O15527;P17096;Q969S2;P23396;Q96FI4;Q8IW19;P78549;P27695}  
3353 Pathogen[ P14079] interacts with 10 human  
partners:{Q8TAT5;P23396;Q9UBZ4;P17096;O15527;P78549;Q969S2;Q96FI4;P27695;Q8IW19}  
3354 Pathogen[ P03383] interacts with 5 human  
partners:{P17096;O15527;Q8IW19;P27695;P23396}  
3355 Pathogen[ P03410] interacts with 10 human  
partners:{Q96FI4;P17096;P23396;Q8TAT5;P78549;Q9UBZ4;O15527;Q8IW19;P27695;Q969S2}  
3356 Pathogen[ P14075] interacts with 5 human  
partners:{P27695;O15527;P17096;Q8IW19;P23396}  
3357 Pathogen[ P0C206] interacts with 10 human  
partners:{P27695;O15527;Q9UBZ4;P23396;Q8TAT5;Q96FI4;P17096;Q969S2;Q8IW19;P78549}  
3358 Pathogen[ P03363] interacts with 6 human  
partners:{Q8IW19;P23396;O15527;Q96FI4;P17096;Q969S2}  
3359 [Cluster 306]GO:0010181+F molecular\_function [name] FMN binding [def] "Interacting selectively and non-covalently with FMN, flavin mononucleotide, the coenzyme or the

prosthetic group of various flavoprotein oxidoreductase enzymes." [GOC

3360 Pathogen[ Q2Q067] interacts with 2 human partners:{P29474;Q9UHB4}

3361 Pathogen[ P0C214] interacts with 2 human partners:{P29474;Q9UHB4}

3362 Pathogen[ P03346] interacts with 3 human partners:{Q9UBK8;P29474;Q9UHB4}

3363 Pathogen[ Q85601] interacts with 2 human partners:{Q9UHB4;P29474}

3364 Pathogen[ P14079] interacts with 3 human partners:{Q9UHB4;Q8IUH2;Q9NVS9}

3365 Pathogen[ P03383] interacts with 2 human partners:{P29474;Q9UHB4}

3366 Pathogen[ P03410] interacts with 3 human partners:{P29474;Q9UHB4;Q9NVS9}

3367 Pathogen[ P14075] interacts with 3 human partners:{P29474;Q9UHB4;Q9NVS9}

3368 Pathogen[ P0C206] interacts with 2 human partners:{P29474;Q9UHB4}

3369 Pathogen[ P03363] interacts with 2 human partners:{P29474;Q9UHB4}

3370 [Cluster 307]GO:0070694+F molecular\_function [name] deoxyribonucleoside 5'-monophosphate N-glycosidase activity [def] "Catalysis of the reaction

3371 Pathogen[ Q2Q067] interacts with 1 human partners:{O43598}

3372 Pathogen[ P0C214] interacts with 1 human partners:{O43598}

3373 Pathogen[ P03346] interacts with 1 human partners:{O43598}

3374 Pathogen[ Q85601] interacts with 1 human partners:{O43598}

3375 Pathogen[ P14079] interacts with 1 human partners:{O43598}

3376 Pathogen[ P03383] interacts with 1 human partners:{O43598}

3377 Pathogen[ P03410] interacts with 1 human partners:{O43598}

3378 Pathogen[ P14075] interacts with 1 human partners:{O43598}

3379 Pathogen[ P0C206] interacts with 1 human partners:{O43598}

3380 Pathogen[ P03363] interacts with 1 human partners:{O43598}

3381 [Cluster 308]GO:0017112+F molecular\_function [name] Rab guanyl-nucleotide exchange factor activity [def] "Stimulates the exchange of guanyl nucleotides associated with a GTPase of the Rab family. Under normal cellular physiological conditions, the concentration of GTP is higher than that of GDP, favoring the replacement of GDP by GTP in association with the GTPase." [GOC

3382 Pathogen[ Q2Q067] interacts with 3 human partners:{Q96QF0;Q8TBN0;Q7Z401}

3383 Pathogen[ P0C214] interacts with 3 human partners:{Q8TBN0;Q7Z401;Q96QF0}

3384 Pathogen[ P03346] interacts with 8 human partners:{Q6P3S1;Q8TBN0;Q8IV53;Q86WG5;Q8IWF6;Q7Z401;Q9UJ41;Q96QF0}

3385 Pathogen[ Q85601] interacts with 4 human partners:{Q9UJ41;Q7Z401;Q8TBN0;Q96QF0}

3386 Pathogen[ P14079] interacts with 11 human partners:{Q6P3S1;Q8TBN0;Q9UJ41;Q8IV53;Q96QF0;Q86WG5;Q7Z401;Q68D51;Q8IWF6;P78524;Q8NEG7}

3387 Pathogen[ P03383] interacts with 3 human partners:{Q96QF0;Q8IWF6;Q8TBN0}

3388 Pathogen[ P03410] interacts with 12 human partners:{Q9UJ41;Q8IWF6;Q7Z401;Q6P3S1;Q68D51;Q8TBN0;Q96QF0;O75064;Q8NEG7;Q8IV53;P78524;Q86WG5}

3389 Pathogen[ P14075] interacts with 3 human partners:{Q96QF0;Q8IWF6;Q8TBN0}

3390 Pathogen[ P0C206] interacts with 8 human partners:{Q96QF0;Q8TBN0;Q8IWF6;Q9UJ41;Q8NEG7;Q8IV53;Q7Z401;Q6P3S1}

3391 Pathogen[ P03363] interacts with 8 human partners:{Q8IWF6;Q9UJ41;Q86WG5;Q6P3S1;Q7Z401;Q8TBN0;Q8IV53;Q96QF0}

3392 [Cluster 309]GO:0030619+F molecular\_function [name] U1 snRNA binding [def] "Interacting selectively and non-covalently with the U1 small nuclear RNA (U1 snRNA)." [GOC

3393 Pathogen[ Q2Q067] interacts with 1 human partners:{P09234}

3394 Pathogen[ P0C214] interacts with 1 human partners:{P09234}

3395 Pathogen[ P03346] interacts with 1 human partners:{P09234}

3396 Pathogen[ Q85601] interacts with 1 human partners:{P09234}

3397 Pathogen[ P14079] interacts with 1 human partners:{P09234}

3398 Pathogen[ P03383] interacts with 1 human partners:{P09234}

3399 Pathogen[ P03410] interacts with 1 human partners:{P09234}

3400 Pathogen[ P14075] interacts with 1 human partners:{P09234}

3401 Pathogen[ P0C206] interacts with 1 human partners:{P09234}

3402 Pathogen[ P03363] interacts with 1 human partners:{P09234}

3403 [Cluster 310]GO:0003950+F molecular\_function [name] NAD+ ADP-ribosyltransferase activity [def] "Catalysis of the reaction

3404 Pathogen[ Q2Q067] interacts with 13 human partners:{Q8IXJ6;Q9H2K2;Q460N3;Q9Y6E7;Q460N5;Q9NTG7;Q8N6T7;Q7Z2W4;P09874;Q53GL7;O95271;Q8IXQ6;Q9UKK3}

3405 Pathogen[ P0C214] interacts with 13 human partners:{Q8IXQ6;Q460N5;Q7Z2W4;Q53GL7;Q9NTG7;Q8N6T7;Q9H2K2;Q460N3;Q9UKK3;Q8IXJ6;O95271;Q9Y6E7;P09874}

3406 Pathogen[ P03346] interacts with 15 human partners:{Q460N3;Q53GL7;Q9UKK3;Q8IXJ6;Q9Y6E7;Q9H2K2;Q8IXQ6;Q8N6T7;P09874;Q9UGN5;O95271;Q9Y6F1;Q460N5;Q9NTG7;Q7Z2W4}

3407 Pathogen[ Q85601] interacts with 15 human partners:{P09874;Q460N3;Q9UKK3;Q7Z2W4;Q9Y6E7;Q9H2K2;Q9Y6F1;Q8IXJ6;Q8IXQ6;Q8N6T7;Q9UGN5;O95271;Q460N5;Q9NTG7;Q53GL7}

3408 Pathogen[ P14079] interacts with 14 human partners:{Q8IXQ6;P09874;Q7Z2W4;O95271;Q9UGN5;Q9H2K2;Q9UKK3;Q460N3;Q8N6T7;Q8IXJ6;Q2NL67;Q53GL7;Q9NTG7;Q9Y6F1}

3409 Pathogen[ P03383] interacts with 9 human

3410 partners:{Q8N6T7;Q8IXQ6;Q9NTG7;P09874;Q53GL7;Q9Y6E7;Q9UKK3;O95271;Q7Z2W4}  
Pathogen[ P03410] interacts with 15 human

3411 partners:{Q8IXJ6;Q9NTG7;Q53GL7;Q8N6T7;Q460N3;Q9Y6F1;Q8IXQ6;Q7Z2W4;Q9UGN5;O95271;P09874;Q2NL67;Q9UKK3;Q460N5;Q9H2K2}  
Pathogen[ P14075] interacts with 9 human

3412 partners:{Q8N6T7;Q8IXQ6;Q9Y6E7;Q9NTG7;Q7Z2W4;O95271;P09874;Q53GL7;Q9UKK3}  
Pathogen[ P0C206] interacts with 15 human

3413 partners:{O95271;P09874;Q460N5;Q53GL7;Q8IXQ6;Q460N3;Q9Y6F1;Q8N6T7;Q9UGN5;Q9UKK3;Q8IXJ6;Q7Z2W4;Q9NTG7;Q9H2K2;Q9Y6E7}  
Pathogen[ P03363] interacts with 14 human

3414 partners:{Q9Y6E7;Q9UGN5;Q8IXQ6;Q7Z2W4;Q460N3;Q9H2K2;Q8N6T7;Q9UKK3;O95271;Q460N5;Q9NTG7;P09874;Q9Y6F1;Q53GL7}  
[Cluster 311]GO:0005068+F molecular\_function [name] transmembrane receptor protein tyrosine kinase adaptor activity [def] "The binding activity of a molecule that brings together a transmembrane receptor protein tyrosine kinase and one or more other molecules, permitting them to function in a coordinated way." [GOC

3415 Pathogen[ Q2Q067] interacts with 1 human partners:{P27986}  
3416 Pathogen[ P0C214] interacts with 3 human partners:{Q8WV28;Q9UQC2;P27986}  
3417 Pathogen[ P03346] interacts with 3 human partners:{Q9UQC2;Q8WV28;P27986}  
3418 Pathogen[ Q85601] interacts with 2 human partners:{Q9UQC2;P27986}  
3419 Pathogen[ P14079] interacts with 4 human partners:{Q8WV28;Q8WU20;Q6PIZ9;Q9UQC2}  
3420 Pathogen[ P03383] interacts with 1 human partners:{P27986}  
3421 Pathogen[ P03410] interacts with 5 human partners:{Q9UQC2;P27986;Q6PIZ9;Q8WV28;Q8WU20}  
3422 Pathogen[ P14075] interacts with 1 human partners:{P27986}  
3423 Pathogen[ P0C206] interacts with 3 human partners:{P27986;Q8WU20;Q9UQC2}  
3424 Pathogen[ P03363] interacts with 3 human partners:{Q8WV28;P27986;Q9UQC2}

3425 [Cluster 312]GO:0016274+F molecular\_function [name] protein-arginine N-methyltransferase activity [def] "Catalysis of the reaction

3426 Pathogen[ Q2Q067] interacts with 3 human partners:{P55345;Q86XK2;Q86X55}  
3427 Pathogen[ P0C214] interacts with 3 human partners:{P55345;Q86XK2;Q86X55}  
3428 Pathogen[ P03346] interacts with 3 human partners:{Q86XK2;P55345;Q86X55}  
3429 Pathogen[ Q85601] interacts with 3 human partners:{Q86X55;Q86XK2;P55345}  
3430 Pathogen[ P14079] interacts with 3 human partners:{Q86XK2;Q60678;P55345}  
3431 Pathogen[ P03383] interacts with 2 human partners:{Q86X55;Q86XK2}  
3432 Pathogen[ P03410] interacts with 3 human partners:{Q86X55;Q86XK2;P55345}  
3433 Pathogen[ P14075] interacts with 2 human partners:{Q86X55;Q86XK2}  
3434 Pathogen[ P0C206] interacts with 4 human partners:{Q86XK2;Q86X55;Q60678;P55345}  
3435 Pathogen[ P03363] interacts with 2 human partners:{Q86XK2;Q86X55}

3436 [Cluster 313]GO:0008289+F molecular\_function [name] lipid binding [def] "Interacting selectively and non-covalently with a lipid." [GOC

3437 Pathogen[ Q2Q067] interacts with 19 human partners:{O94973;Q12933;Q8N7J2;Q13432;Q5JTC6;Q7Z614;P05413;Q68DK2;Q96CW1;Q9Y2T7;Q9HB19;Q14677;O95810;Q9H4A6;Q99962;P08235;A6NIH7;Q9H4A5;Q86VN1}

3438 Pathogen[ P0C214] interacts with 24 human partners:{Q96CW1;O95810;Q9H4A6;Q9H201;Q92934;P05413;Q7Z614;Q9Y6I3;Q99962;Q9BY43;Q9HB19;Q9Y2T7;Q12933;O94973;Q9H4A5;Q8N7J2;A6NIH7;Q68DK2;Q5JTC6;Q86VN1;Q14677;Q8N944;Q13432;P55072}

3439 Pathogen[ P03346] interacts with 49 human partners:{Q13596;Q9H4A5;P29373;Q9HB19;P06401;Q15036;P05413;P07148;P08235;Q8N7J2;Q92543;Q9H4A6;Q99962;Q96T51;Q9UMY4;Q86VN1;Q7Z614;P55072;Q9BR61;Q01469;Q8TEW0;Q9Y371;Q13432;Q9NRS6;Q9BXW6;Q60493;Q9UNH7;Q96CW1;Q9Y5X2;P51161;O95810;Q68DK2;Q9H201;Q9HB21;Q9Y2T7;Q9BY43;O95219;P56589;A6NIH7;Q60749;Q14CM0;Q9Y6I3;O00482;Q9ULU8;O94973;Q96QH2;Q14677;Q13285;Q5JTC6}

3440 Pathogen[ Q85601] interacts with 29 human partners:{Q13596;Q9H4A5;Q9Y2T7;P05413;Q96CW1;P51161;Q15036;Q99962;Q96T51;Q86VN1;Q7Z614;Q14677;Q9BY43;O95810;Q12933;Q9HB21;P08235;Q9H201;Q5JTC6;Q9H4A6;Q68DK2;O94973;O00482;Q9HB19;A6NIH7;Q13432;Q9Y6I3;Q8N7J2;Q9UNH7}

3441 Pathogen[ P14079] interacts with 48 human partners:{Q9BXW6;Q96CW1;Q8N944;Q86VN1;Q9UNH7;Q96QH2;Q15036;Q16873;Q68DK2;A6NIH7;Q9UKF7;P56589;Q9Y6I3;Q60493;P08235;Q9BY43;Q14677;Q9ULU8;Q9NRS6;Q8N7J2;Q9Y371;P05413;Q9HB19;Q8TEW0;Q9Y2T7;Q9Y5X2;O00519;O00482;Q96T51;Q92934;O00264;Q60749;Q13596;O94973;Q7Z614;Q9H4A5;Q12933;Q13432;O95810;Q9HB21;Q92543;Q9UMY4;Q01469;Q5JTC6;Q9H4A6;Q9NZZD2;Q99962;Q9H201}

3442 Pathogen[ P03383] interacts with 16 human partners:{Q96CW1;Q68DK2;Q7Z614;Q13432;Q9Y2T7;Q12933;Q8N7J2;Q5JTC6;O95810;Q9H4A6;Q14677;A6NIH7;O94973;Q86VN1;Q9HB19;Q9H4A5}

3443 Pathogen[ P03410] interacts with 51 human partners:{Q14CM0;Q96QH2;O00519;Q96CW1;P51161;Q7Z614;Q13596;Q9Y6I3;P05413;Q60749;Q9BY43;Q92934;Q86VN1;P55157;Q9HB21;Q9UMY4;Q9H4A6;Q9UKF7;A6NIH7;O95219;Q9UNH7;Q14677;O00264;Q16873;Q15036;Q9Y371;Q9H201;Q12933;Q9ULU8;Q9NZZD2;Q9NRS6;O95810;Q5JTC6;Q96T51;Q8TEW0;Q99962;Q8N7J2;P56589;Q01469;Q9HB19;Q9Y2T7;Q13432;P08235;Q68DK2;O94973;Q92543;Q9H4A5;Q60493;Q9BXW6;Q8N944;Q9Y5X2}

3444 Pathogen[ P14075] interacts with 17 human partners:{O94973;Q96CW1;Q86VN1;Q7Z614;Q9H4A5;Q68DK2;O95810;Q8N7J2;Q12933;Q9Y2T7;Q14677;Q9HB19;Q5JTC6;A6NIH7;Q13432;Q9H4A6;Q8N944}

3445 Pathogen[ P0C206] interacts with 46 human partners: {Q68DK2;Q9HB19;Q9H4A6;O94973;Q9H201;P06401;Q13432;Q9UNH7;O95810;P51161;Q9NRS6;Q8N944;P56589;Q96T51;Q86VN1;O60493;Q99962;P29373;Q13596;Q12933;O00482;Q15036;Q9H4A5;P05413;Q92934;Q9NZD2;Q8TEW0;O60749;Q9ULU8;O00264;Q8N7J2;Q96CW1;Q9Y6I3;Q96QH2;P55072;Q7Z614;Q9HB21;Q14677;A6NIH7;Q9BY43;Q9BXW6;Q9BR61;Q01469;Q9Y2T7;P08235;Q5JTC6}

3446 Pathogen[ P03363] interacts with 38 human partners: {Q9H201;Q5JTC6;Q9UNH7;Q99962;Q92543;Q9BZF3;O95219;Q12933;Q01469;Q14CM0;Q96RU3;P51161;Q9H4A6;Q68DK2;Q9UMY4;O60493;Q96T51;O94973;O60749;P29373;P08235;Q86VN1;Q9BXW6;Q14677;Q13432;P05413;Q9HB19;Q7Z614;Q96QH2;A6NIH7;Q9UKF7;Q13596;Q9BR61;O95810;Q9Y2T7;Q96CW1;Q8N7J2;O00482}

3447 [Cluster 314]GO:0052906+F

3448 Pathogen[ Q2Q067] interacts with 1 human partners: {Q32P41}

3449 Pathogen[ P0C214] interacts with 1 human partners: {Q32P41}

3450 Pathogen[ P03346] interacts with 1 human partners: {Q32P41}

3451 Pathogen[ Q85601] interacts with 1 human partners: {Q32P41}

3452 Pathogen[ P14079] interacts with 1 human partners: {Q32P41}

3453 Pathogen[ P03383] interacts with 1 human partners: {Q32P41}

3454 Pathogen[ P03410] interacts with 1 human partners: {Q32P41}

3455 Pathogen[ P14075] interacts with 1 human partners: {Q32P41}

3456 Pathogen[ P0C206] interacts with 1 human partners: {Q32P41}

3457 Pathogen[ P03363] interacts with 1 human partners: {Q32P41}

3458 [Cluster 315]GO:0019777+F molecular\_function [name] Atg12 ligase activity [def] "Catalysis of the covalent attachment of the ubiquitin-like protein Atg12 to other proteins." [GOC]

3459 Pathogen[ Q2Q067] interacts with 1 human partners: {Q9NT62}

3460 Pathogen[ P0C214] interacts with 1 human partners: {Q9NT62}

3461 Pathogen[ P03346] interacts with 1 human partners: {Q9NT62}

3462 Pathogen[ Q85601] interacts with 1 human partners: {Q9NT62}

3463 Pathogen[ P14079] interacts with 2 human partners: {Q9NT62;Q9H0Y0}

3464 Pathogen[ P03383] interacts with 1 human partners: {Q9NT62}

3465 Pathogen[ P03410] interacts with 2 human partners: {Q9H0Y0;Q9NT62}

3466 Pathogen[ P14075] interacts with 1 human partners: {Q9NT62}

3467 Pathogen[ P0C206] interacts with 1 human partners: {Q9NT62}

3468 Pathogen[ P03363] interacts with 1 human partners: {Q9NT62}

3469 [Cluster 316]GO:0004061+F molecular\_function [name] arylformamidase activity [def] "Catalysis of the reaction

3470 Pathogen[ Q2Q067] interacts with 1 human partners: {Q63HML}

3471 Pathogen[ P0C214] interacts with 1 human partners: {Q63HML}

3472 Pathogen[ P03346] interacts with 1 human partners: {Q63HML}

3473 Pathogen[ Q85601] interacts with 1 human partners: {Q63HML}

3474 Pathogen[ P14079] interacts with 1 human partners: {Q63HML}

3475 Pathogen[ P03383] interacts with 1 human partners: {Q63HML}

3476 Pathogen[ P03410] interacts with 1 human partners: {Q63HML}

3477 Pathogen[ P14075] interacts with 1 human partners: {Q63HML}

3478 Pathogen[ P0C206] interacts with 1 human partners: {Q63HML}

3479 Pathogen[ P03363] interacts with 1 human partners: {Q63HML}

3480 [Cluster 317]GO:0031625+F molecular\_function [name] ubiquitin protein ligase binding [def] "Interacting selectively and non-covalently with a ubiquitin protein ligase enzyme, any of the E3 proteins." [GOC]

3481 Pathogen[ Q2Q067] interacts with 73 human partners: {Q9H2G9;O15234;P54252;Q93034;Q93009;P55957;O75925;Q6NUN9;Q9UQ80;P06400;Q99816;O60260;Q8TD23;Q13077;Q04206;Q12933;O95999;Q9UER7;P08107;Q96CS3;P15172;P63165;Q04323;P27797;P63146;Q9UBF1;Q9Y6H5;O96017;Q15370;P12755;Q9UNN5;Q9Y4X5;P84022;Q9NPD8;Q94888;O15105;Q13114;O43541;P11161;Q13616;Q13618;Q15796;Q15366;O75164;Q5VTR2;P24928;P61956;O76064;Q96RU7;O43791;Q13620;P25963;Q13619;O60573;O75150;P43356;Q9UNE7;P49459;P27986;Q92844;Q01860;P68036;P13010;Q9UJX6;Q86Y01;O00463;Q99717;Q9H3M7;Q13617;P62877;Q9NW38;Q8N2W9;Q14999}

3482 Pathogen[ P0C214] interacts with 78 human partners: {Q96B02;Q9UJX6;O15234;Q13619;Q13617;Q13620;P61956;O75925;P13010;O94888;Q9H3M7;Q8TD23;Q8N2W9;Q86Y37;P84022;P15172;P55957;Q04206;P49459;Q13618;Q93034;Q15370;O75164;Q14999;P62877;Q15366;P62253;Q92844;Q9Y6H5;P61086;Q9UER7;O96017;P63165;Q9UNN5;O95999;Q12933;O43791;O15105;Q9H2G9;Q04323;Q15796;Q96CS3;P25963;Q93009;O43541;Q13616;P12755;Q9UBF1;P24928;Q99816;P43356;Q96RU7;Q13114;P10909;P27797;P11161;O75150;Q99717;Q86WV6;O60260;Q6NUN9;Q9UQ80;P35520;O00463;Q86Y01;Q9Y4X5;Q5VTR2;P08107;Q9UNE7;O76064;Q9NPD8;P27986;Q01860;P06400;P63146;P54252;Q9NW38;O60573}

3483 Pathogen[ P03346] interacts with 83 human partners: {P08107;Q9NS91;Q13077;O00463;O15234;Q13263;Q15370;Q93009;O76064;Q15366;Q9H2G9;P68036;Q96017;O75150;Q13616;Q5VTR2;O94888;Q9UQ80;Q96CS3;O95714;P06400;P25963;P61956;Q8TD23;Q9UBF1;P55957;Q13618;P15172;Q15796;P13010;O60573;Q04206;Q99816;Q99717;P49459;O15105;Q13114;Q01860;Q93034;Q13620;O95999;Q9UJX6;P62877;O75925;P84022;O43541;Q9UNN5;O94972;P63146;Q9UNE7;O75164;P63165;Q8IWT3;Q9UER7;O75604;O43791;Q9Y6H5;Q86Y37;Q8NOX7;Q9NPD8;Q8N2W9;P43356;P27797;Q96RU7;Q9BUZ4;O60260;Q04323;P11161;Q13619;Q969F2;Q14999;Q96FW1;P24928;Q6NUN9;Q9Y4X5;Q9NW38;Q86Y01;Q9H3M7;O14965;P27986;Q92844;P54252;Q13617}

3484 Pathogen[ Q85601] interacts with 83 human partners: {Q99816;O15234;Q86WV6;Q15370;P08107;P62253;Q9UJX6;P63146;O96017;Q93009;Q9UQ80;P15172;O00463;Q96CS3;O95714;P06400;O43541;Q8TD23;P62877;P61956;Q6NUN9;Q92844;Q9UER7

;Q13616;P27797;O94888;Q86Y37;Q96B02;Q8N2W9;Q9NPD8;Q13114;O43791;P68036;P12755;P27986;P54252;Q13263;O14965;O76064;Q9UNN5;Q04323;Q12933;Q9UBF1;Q99717;Q04206;O60573;P61086;P55957;Q8N0X7;Q9NW38;P49459;Q96RU7;O75150;P84022;O60260;Q5VTR2;Q9H2G9;P63165;Q14999;O75164;Q13077;O15105;P43356;P24928;Q9Y6H5;Q13620;Q13618;O95999;Q86Y01;Q9UNE7;Q13619;O75925;Q9H3M7;P11161;Q01860;Q15366;Q9Y4X5;Q93034;Q15796;P13010;Q9NS91;P25963;Q13617}

3485 Pathogen[ P14079] interacts with 67 human partners: {Q8N2W9;Q92844;O00463;O60260;Q8TD23;P12755;O94888;O95999;Q9P055;P68036;P13010;Q96CS3;Q13620;Q6NUN9;Q13618;Q9NPD8;P54252;Q9Y6H5;P10909;P63165;P61956;Q9BUZ4;P62877;Q13077;O60573;P43356;Q9H2G9;Q86Y01;Q9UNN5;Q01860;Q9H2D6;P11161;Q9UER7;Q9UL15;Q5VTR2;Q86WV6;P08107;Q93034;P49459;Q9UBF1;Q15370;Q15366;Q8N0X7;O43541;Q9UJX6;Q13617;Q96RU7;Q12933;O75925;O43791;Q9H3M7;P24928;Q13616;Q86Y37;Q99816;O15105;Q9NW38;O14965;Q9UQ80;P63146;O15234;Q14999;Q96FW1;Q04323;Q13619;Q13114;P55957}

3486 Pathogen[ P03383] interacts with 66 human partners: {P08107;P27986;Q13616;O75925;O15234;Q15366;P13010;Q92844;Q9UJX6;P15172;P61956;Q8TD23;O43791;Q93034;P55957;Q9H2G9;Q99816;Q04323;Q01860;O94888;O60573;Q8N2W9;P06400;Q13618;O75164;O15105;P54252;P84022;O60260;Q9UNN5;P24928;Q12933;Q99717;Q96CS3;O43541;P63165;Q9UER7;P25963;Q9UBF1;O95999;Q5VTR2;O14965;Q96RU7;Q13617;P11161;Q9UQ80;Q15796;P68036;P62877;Q9H3M7;Q04206;Q6NUN9;P49459;Q15370;Q9NPD8;P43356;Q9Y6H5;P63146;Q9NW38;Q86Y01;O75150;Q13114;Q14999;P27797;O96017;Q13620}

3487 Pathogen[ P03410] interacts with 79 human partners: {P84022;Q96FW1;Q04206;P27986;Q969F2;O75925;Q9H2G9;Q9Y6H5;Q9UNN5;Q8N0X7;O15234;P12755;P63165;Q01860;Q13077;P24928;Q13620;Q9UQ80;Q99717;P49459;Q9H3M7;Q8N2W9;P54252;Q5VTR2;Q15366;Q15370;Q92844;P06400;O60260;Q9P055;Q04323;P68036;Q9UBF1;P55957;O14965;Q99816;Q9UNE7;Q13618;Q86Y01;Q6NUN9;O75150;Q9UER7;O95999;P08107;O00463;P62877;Q9Y4X5;P63146;Q12933;Q86Y37;O96017;Q9UL15;O43541;O15105;Q96RU7;O60573;Q13616;Q9NPD8;Q96CS3;Q13619;P13010;Q86WV6;Q13617;O43791;Q8TD23;Q9NW38;P25963;O75164;Q15796;P11161;P61956;Q93034;P43356;Q9UJX6;Q9H2D6;O94888;Q13114;P10909;P27797}

3488 Pathogen[ P14075] interacts with 67 human partners: {Q5VTR2;Q15366;O15234;P63165;Q96CS3;Q9H2G9;P55957;Q04206;Q9Y6H5;Q92844;Q9UBF1;P68036;Q93034;Q13618;Q8TD23;O43541;O94888;Q6NUN9;P49459;Q01860;P11161;P15172;Q13620;O75925;Q99717;Q96FW1;Q8N2W9;Q15796;P25963;Q04323;P54252;Q9NW38;Q9UJX6;Q9NPD8;Q14999;O60573;Q9UNN5;Q15370;Q12933;O96017;O14965;P24928;P61956;P27797;O75150;P27986;Q13114;Q9H3M7;O15105;O95999;P06400;P43356;Q9UQ80;Q96RU7;P08107;O43791;P63146;P13010;P84022;Q9UER7;Q99816;Q13616;Q86Y01;O60260;Q13617;P62877;O75164}

3489 Pathogen[ P0C206] interacts with 89 human partners: {Q9UNN5;Q6NUN9;P84022;Q86Y01;O43541;Q8N0X7;P62877;Q9NPD8;P13010;Q86Y37;P62253;Q13077;Q92844;P27797;Q13114;O43791;Q969F2;Q13263;P43356;O96017;P11161;O75925;P68036;Q04323;Q01860;O75604;O95999;Q99717;P25963;Q8N2W9;Q9UER7;Q9NS91;Q93009;Q99816;O94888;Q86WV6;Q13616;Q12933;P61956;Q15796;P54252;Q5VTR2;P27986;Q13620;Q96RU7;P12755;Q9Y4X5;Q14999;O15105;Q13619;Q9BUZ4;Q13617;Q13618;Q9UNE7;P49459;Q96FW1;Q8TD23;Q04206;O60260;Q15370;P10909;O15234;P08107;O00463;Q15366;Q9UJX6;Q9H2G9;Q9H3M7;O75164;P15172;O60573;P24928;Q9UQ80;Q93034;P63165;P61086;O14965;Q96B02;O76064;Q96CS3;Q9UBF1;O75150;O95714;Q9Y6H5;P55957;Q9NW38;P63146;Q8IWT3;P06400}

3490 Pathogen[ P03363] interacts with 76 human partners: {Q9UNN5;Q86Y01;Q9NW38;P55957;Q9Y6H5;Q9H2D6;O94972;Q15366;Q15370;Q04323;Q04206;P49459;P13010;P25963;O75604;O94888;Q13618;Q12933;O00463;Q9H3M7;Q9UBF1;Q8N0X7;Q5VTR2;P24928;Q13617;P54252;O75164;Q9UER7;Q6NUN9;O15105;P63146;Q96CS3;P06400;Q9UQ80;Q9UJX6;O75150;O96017;Q13619;Q9Y4X5;Q13616;P63165;Q14999;P08107;P62877;Q13077;P27797;Q9UNE7;O43541;Q15796;P84022;Q13620;O75925;Q9H2G9;Q92844;Q9NPD8;Q8TD23;O95714;Q13114;Q8IWT3;Q99816;O60573;P61956;Q93034;Q9BUZ4;Q8N2W9;Q9NS91;P15172;Q99717;P43356;P27986;Q01860;Q96FW1;O43791;P68036;O15234;P11161}

3491 [Cluster 318]GO:0000213+F molecular\_function [name] tRNA-intron endonuclease activity [def] "Catalysis of the endonucleolytic cleavage of pre-tRNA, producing 5'-hydroxyl and 2',3'-cyclic phosphate termini, and specifically removing the intron." [EC

3492 Pathogen[ Q2Q067] interacts with 2 human partners: {Q8NCE0;Q9BSV6}

3493 Pathogen[ P0C214] interacts with 2 human partners: {Q9BSV6;Q8NCE0}

3494 Pathogen[ P03346] interacts with 2 human partners: {Q9BSV6;Q8NCE0}

3495 Pathogen[ Q85601] interacts with 2 human partners: {Q9BSV6;Q8NCE0}

3496 Pathogen[ P14079] interacts with 2 human partners: {Q9BSV6;Q8NCE0}

3497 Pathogen[ P03383] interacts with 2 human partners: {Q8NCE0;Q9BSV6}

3498 Pathogen[ P03410] interacts with 2 human partners: {Q9BSV6;Q8NCE0}

3499 Pathogen[ P14075] interacts with 2 human partners: {Q9BSV6;Q8NCE0}

3500 Pathogen[ P0C206] interacts with 2 human partners: {Q9BSV6;Q8NCE0}

3501 Pathogen[ P03363] interacts with 2 human partners: {Q9BSV6;Q8NCE0}

3502 [Cluster 319]GO:0003735+F molecular\_function [name] structural constituent of ribosome [def] "The action of a molecule that contributes to the structural integrity of the ribosome." [GOC

3503 Pathogen[ Q2Q067] interacts with 150 human partners: {Q5JNZ5;Q9HD33;P61313;P62701;Q8NHW5;P82921;Q9BYD6;Q13084;Q9BZE1;P47914;P82933;P46779;Q96EL2;Q9BYD1;Q4U2R6;P82912;Q59GN2;P82932;Q9Y3B7;Q02543;P26373;Q9Y676;O75394;Q96A35;P62750;P62273;Q9Y2R9;Q13405;Q96GC5;Q6NVV1;P15880;P40429;Q9NWU5;P46782;Q9BRJ2;P35268;P22090;P46778;P82663;Q9BYC8;P62888;Q9Y3D9;P32969;P62277;P62241;Q9P0M9;P62244;P05387;Q5T653;Q9NVS2;P62861;P42766;P05386;Q9Y291;Q9P0J6;Q6P1L8;Q969Q0;Q9UNX3;P30050;Q8IXM3;Q9Y3D3;Q9Y2R5;P18077;P62891;Q9BQ48;P61927;Q9Y399;P39023;P62081;P61247;P61254;P62249;P62280;P83731;O15235;P62263;P60866;P62906;P82650;Q9BQC6;P52815;P82914;Q02878;P46777;Q7Z7F7;P62899;P08708;Q96EH5;P08865;Q9NZE8;Q07020;P62913;O60783;P62269;Q9NP92;Q9Y6G

- 3;P62424;P62917;P62829;O76021;Q9BYD3;P36578;P62857;Q9BYD2;Q9Y3D5;P62847;P49207;P23396;Q9H0U6;P63173;P18621;P82675;Q9NRX2;Q86TS9;P39019;P82664;P61353;Q96L21;P62266;P42677;Q9Y3U8;P63220;P62841;P83881;P62987;P49406;Q9P015;P50914;P46776;P82909;P62854;P09001;P62753;P05388;Q8N983;P18124;P62851;P25398;A6NKH3;P62910;Q92901;P46781;Q9BYC9;P27635;Q92665;P61513;P62945;Q71UM5;Q9NX20;P62979}
- 3504 Pathogen[ P0C214] interacts with 153 human partners: {Q9HD33;P62861;P84098;Q96A35;P61247;P49406;Q9Y399;Q8NHW5;Q13405;Q9Y3D5;Q9BYD2;Q96EL2;Q9BYD1;P15880;P62081;P42766;P62913;P22090;P82912;Q92901;P62249;Q9Y3D9;P62899;P62854;P39019;P62263;P82675;P0C6E6;Q9H0U6;Q16540;Q9Y676;Q86TS9;P62273;Q9NP92;P23396;P18077;O15235;P05388;P62847;Q9BYD3;Q96GC5;O76021;Q9NX20;P62829;P26373;P27635;P46778;Q6P5R6;Q4U2R6;Q5JNZ5;Q9NWU5;Q8IXM3;Q96EH5;P61513;Q7Z2W9;P83881;O75394;Q5T653;P62701;Q71UM5;P49207;P63220;P08865;P32969;Q02543;P62266;P09001;Q969Q0;P82664;P82914;P62277;Q8N983;P50914;Q92665;P46779;Q59GN2;P40429;Q9P0J6;P47914;P63173;Q13084;Q9BQ48;P82663;P82921;P62280;Q9UNX3;Q9Y3U8;Q6P1L8;P30050;P62753;P62910;P62891;Q8TD47;P82909;Q9NZE8;Q9Y6G3;P62269;P46781;Q9Y291;Q9Y2R9;A6NKH3;Q9BYC9;P61254;P62841;P62244;Q9NRX2;P62987;Q7Z7F7;Q9Y2R5;Q07020;P42677;P62945;Q6NVV1;Q9P0M9;P46776;Q9BQC6;P52815;P62241;P46777;P82932;P83731;Q96L21;P35268;P62424;P60866;Q9BYC8;P62857;P61313;P08708;Q9P015;P05387;P25398;Q9BZE1;Q9Y3B7;P61927;P62750;P62979;P05386;P62851;P46782;P82933;P18124;P82650;P61353;Q9BYD6;P36578;Q9BRJ2;Q9Y3D3;P18621;O60783;P62906;Q02878;Q9NVS2}
- 3505 Pathogen[ P03346] interacts with 157 human partners: {Q96A35;O76021;Q9NVS2;P05387;Q9Y399;Q8NHW5;P46779;Q96EL2;Q9BYD1;P63173;Q5JNZ5;P62917;O75394;P62249;P62913;P49406;Q9P0J6;Q8N983;P62861;P82912;P62277;Q02878;P82933;Q59GN2;P62280;P39023;P62987;P61927;Q9UNX3;P62857;Q9H0U6;Q8IXM3;P46778;P49207;Q6P5R6;P62266;Q9BYC8;P61254;Q9BQ48;Q71UM5;Q5T653;P62424;P62273;Q9BYD2;P83731;P60866;P0CW22;P62899;Q969Q0;P82909;Q9BYC9;Q6NVV1;P35268;P09001;P62891;P08708;Q8TD47;P46782;P61353;P62854;Q9Y3D9;Q9Y3U8;P82650;P47914;Q9Y2R5;P08865;Q96L21;Q9NRX2;Q7Z7F7;O15235;P61313;P25398;Q13084;P82914;O60783;P61513;Q9NZE8;A6NKH3;P05388;Q9Y2R9;P62269;Q6P1L8;Q02543;P42766;P62081;P61247;Q9BYD3;Q9HD33;Q9NWU5;P18621;Q9Y676;P46781;P82921;P84098;P15880;P50914;Q9Y6G3;P62829;P62979;Q9Y3D5;P39019;Q9BYD6;Q9Y3D3;P23396;Q4U2R6;P42677;P62750;Q96EH5;P62701;Q9BQC6;P30050;Q9NP92;P62910;P36578;Q86TS9;Q9BRJ2;Q9BZE1;P82675;P62847;Q13405;P62851;P22090;P46777;P82663;P52815;Q07020;P62263;P82664;P62841;P83881;P82932;P05386;P18077;Q7Z2W9;P46776;P62241;Q9Y291;P62753;P62945;Q92901;P32969;P26373;P18124;P40429;P27635;Q9P015;Q7Z7H8;Q9Y3B7;Q96GC5;P62906;Q92665;Q9P0M9;P62244;Q9NX20;P62888;P0C6E6;P63220}
- 3506 Pathogen[ Q85601] interacts with 150 human partners: {P32969;P61513;Q8NHW5;P26373;P62857;P52815;P62244;P09001;Q9BQC6;Q96EL2;Q9BYD1;P62913;P62854;P82912;P62081;Q6P5R6;P61353;Q96A35;P62891;P46776;P82933;P18077;P61313;Q9Y2R5;Q9Y3D5;P49406;P05388;Q9NP92;A6NKH3;Q9Y3B7;Q4U2R6;P63173;Q9H0U6;Q9NX20;P82921;Q92665;P23396;P62273;P46778;P62829;P30050;P62753;P27635;Q9BYC8;Q9BYC9;P82932;P15880;Q9BQ48;Q9P0M9;P83881;Q07020;P39019;P39019;Q5T653;Q9Y3U8;Q71UM5;P62701;P62241;P82675;P62424;Q9Y3D9;P83731;Q9BYD2;P62899;P62945;P62263;Q9P015;P62861;Q02878;Q9BYD6;P39023;P61254;Q9Y2R9;Q13405;Q9Y3D3;P49207;Q96GC5;Q9Y291;P62910;Q9Y6G3;Q9NRX2;Q8N983;P82909;O15235;P62249;P62280;P47914;P84098;Q96L21;Q7Z7F7;Q13084;P08708;O75394;P42766;Q9NZE8;Q9NVS2;P62269;Q9BYD3;Q9NWU5;P18621;Q9Y676;P05387;Q9BRJ2;Q9UNX3;P82650;P62277;P35268;P62979;P62847;Q9HD33;P42677;P63220;Q96EH5;Q8IXM3;Q86TS9;Q9BZE1;P46782;O60783;P46779;P62750;P62851;P62841;P62987;P82663;P22090;P82664;P61927;P36578;P05386;P82914;O76021;P08865;Q9Y399;P61247;Q9P0J6;Q5JNZ5;P46777;P62917;Q92901;P18124;P46781;Q6NVV1;P25398;P60866;Q02543;P62906;P50914;P62266;P40429;P62888;Q6P1L8}
- 3507 Pathogen[ P14079] interacts with 154 human partners: {Q9Y3U8;Q9BQC6;P27635;Q8IXM3;P52815;P84098;P46779;A6NKH3;Q9BYD6;Q7Z7F7;P26373;Q4U2R6;P23396;Q6NVV1;P40429;P18621;Q9H0U6;P83881;Q9UNX3;P82664;P46781;P83731;P61513;P62847;P62753;P82933;Q9BQ48;P39023;P62273;Q9Y2R9;Q9BYD2;Q9BYC9;P25398;Q9BRJ2;Q9Y6G3;Q9NRX2;P18077;Q9Y291;Q16540;P61254;P50914;Q7Z2W9;P62979;P62841;P18124;P42766;P62266;Q9Y2R5;P46782;P62987;Q5JNZ5;O60783;P62241;Q9Y3D3;P32969;P22090;Q9P0M9;P62829;P60866;P62854;Q07020;P39019;Q13084;Q9BZE1;P63220;P49207;Q96L21;P62244;P82921;P82650;P09001;Q96A35;P62263;Q02543;P62424;Q92901;P62277;P62750;P62910;Q86TS9;P63173;Q96GC5;P46776;Q9BYD3;P82912;O76021;P08708;Q92665;P36578;P0CW22;Q9BYD1;Q71UM5;Q9BYC8;O15235;P62906;P47914;P62280;Q6P5R6;P62899;Q9NP92;Q13405;P61353;P62081;P62945;Q9NX20;P46777;P42677;P30050;Q9P015;P15880;Q59GN2;O75394;Q7Z7H8;P62891;P82909;P82675;Q9NZE8;Q9HD33;P62888;P08865;P61927;P62917;Q9Y3B7;Q9P0J6;P46778;P62249;Q9Y676;Q969Q0;P05386;P35268;P62913;Q8N983;Q9NVS2;P05387;P61247;P62269;P62701;P61313;Q5T653;P82663;Q8TD47;Q96EL2;P62851;Q6P1L8;P0C6E6;P05388;Q96EH5;Q9Y3D5;P62857;P62861;Q9Y3D9;P82914;Q8NHW5;P49406}
- 3508 Pathogen[ P03383] interacts with 151 human partners: {P42766;P36578;P05388;P62266;Q8NHW5;P39019;P26373;Q96EL2;Q9BYD1;P62913;P62945;P62854;P40429;P82912;Q9BYD2;Q96A35;P62987;P62891;P25398;Q13084;P62280;P82664;Q07020;P62750;Q9BRJ2;P05387;Q9BQ48;P62249;P62888;P62899;P61927;A6NKH3;P46777;P46779;P49207;Q9P0J6;Q9NX20;P83731;P62424;P49406;P18124;P82933;P46778;Q92901;P62753;Q9BQC6;P42677;Q9NWU5;P61247;Q9BYC9;Q5JNZ5;P83881;P09001;Q9BYD3;P47914;Q5T653;Q9P0M9;Q71UM5;Q9Y2R9;P62917;Q9NP92;P82914;Q13405;P62273;Q9UNX3;Q9BZE1;Q96L21;Q969Q0;Q92665;Q9NRX2;P30050;P84098;Q9Y6G3;O75394;P32969;Q9NVS2;P82675;P62277;Q9BYD6;P18077;Q6P1L8;P63173;Q9Y3D9;O60783;P62081;Q9Y2R5;Q9Y3B7;P61313;P08865;P82909;P82663;P62851;P46782;Q9HD33;Q9NZE8;P62269;Q9P015;P63220;Q02543;P62244;Q02878;Q9Y3D5;Q86TS9;P82921;P62910;P27635;Q8IXM3;P62857;P82932;P62906;Q9Y3U8;P60866;P52815;P61254;P62979;P62241;Q7Z7F7;P46781;Q96EH5;P82650;P39023;P62841;Q6NVV1;P22090;P62701;P62829;Q9Y676;P62263;P62847;Q4U2R6;P05386;P50914;O15235;Q9Y291;Q9Y399;P62861;P18621;P46776;Q96GC5;P15880;P23396;Q8N983;Q9Y3D3;P61513;Q59GN2;Q9BYC8;O76021;Q9H0U6;P08708;P61353}

- 3509 Pathogen[ P03410] interacts with 157 human  
partners: {P62861;P05386;Q8NHW5;Q9Y399;Q7Z7F7;Q02543;P61247;P62241;P62829;P49207;P26373;P82663;Q9HD33;P61513;P82909;P62899;Q9P015;P0CW22;Q9P0M9;P62244;P62913;Q16540;Q02878;Q9NX20;Q92901;P15880;P46777;P46776;P62841;P82675;Q5JNZ5;P30050;P05388;Q8N983;O15235;P46781;P18124;Q96A35;P49406;Q92665;Q9BYD2;P62269;Q07020;P63220;P62910;P82650;P62847;Q59GN2;P62906;Q9P0J6;P52815;Q9NP92;P23396;P18621;P62266;Q9NWU5;P62249;P63173;P50914;Q969Q0;P62280;Q96EH5;Q9BQC6;P22090;Q9BYD6;P61313;P62979;Q9Y3D5;Q9BYD3;P62701;P62750;O60783;P82664;P08865;Q96L21;Q9UNX3;P62277;Q9Y676;P36578;Q9BYD1;P18077;P25398;P61927;P84098;Q4U2R6;P62854;P62273;Q9NRX2;Q9BYC8;P0C6E6;P62081;Q8TD47;Q6NVV1;Q9BRJ2;Q9Y3U8;Q13084;Q6P1L8;Q9Y291;P08708;Q9Y2R9;P46782;P32969;Q9Y6G3;Q9BQ48;Q8IXM3;Q5T653;P82912;P46779;P27635;Q96EL2;Q9NZE8;P62987;Q9Y3D9;Q7Z2W9;Q86TS9;P62857;Q9BYC9;P62263;P62424;P62888;P61254;P46778;A6NKH3;P62945;P05387;P42766;P09001;P39019;P47914;P82933;P40429;P39023;O76021;P82914;P62917;P62851;Q7Z7H8;P82921;Q9NVS2;P83731;P35268;Q9Y2R5;P61353;P62891;P62753;Q6P5R6;Q13405;Q71UM5;Q9BZE1;O75394;P83881;Q9H0U6;P60866;P42677;Q9Y3D3;Q96GC5;Q9Y3B7}
- 3510 Pathogen[ P14075] interacts with 151 human  
partners: {P42766;P49207;P62857;P52815;P46781;Q9BRJ2;P63220;O76021;P32969;Q96EL2;Q9BYD1;Q9BYD6;Q9NRX2;Q9BYD2;P42677;P62913;P82921;P22090;Q9P0M9;Q02878;P82912;Q96L21;Q9Y3D9;P62277;Q96GC5;P62851;Q59GN2;P08865;P62244;P49406;Q9BQC6;Q9Y2R5;Q9NX20;P08708;P61254;P46778;O75394;P05388;Q9Y3D3;Q9HD33;P83881;P82650;Q5T653;P46777;Q6P1L8;Q9Y3U8;P62249;P62081;P62750;P18621;Q969Q0;Q9Y3D5;Q02543;Q9BYC9;P18124;Q9UNX3;P25398;Q9BQ48;Q9BZE1;Q13084;P82909;Q9Y3B7;Q9Y2R9;Q13405;Q9Y676;P63173;Q9NWU5;P30050;O15235;P62979;Q9Y399;P83731;P84098;Q8N983;P61247;O60783;P62753;P46782;P62891;P62861;Q96A35;P18077;P82664;P46779;Q92665;P62917;P39023;Q9NZE8;P50914;Q6NVV1;P62269;P62847;P62910;P62273;Q9P015;Q86TS9;P40429;P82663;P23396;P62241;Q9Y291;P15880;P62987;P82914;P62841;P36578;Q5JNZ5;P62266;P82932;P61513;P61313;P27635;P62888;Q9H0U6;Q92901;Q8IXM3;P35268;P62945;P46776;Q96EH5;P09001;Q9BYD3;Q7Z7H8;Q4U2R6;P62701;Q9NP92;Q9BYC8;P62899;P82933;P47914;P62906;Q7Z7F7;P05386;P61353;P39019;P62424;P62829;P62280;Q9P0J6;Q07020;P62263;P62854;P60866;P82675;P26373;P05387;Q9Y6G3;A6NKH3;Q9NVS2;Q71UM5;P61927}
- 3511 Pathogen[ P0C206] interacts with 155 human  
partners: {Q6P1L8;P40429;P61313;Q96A35;Q9Y291;Q9Y3D5;Q9Y399;Q8NHW5;Q96L21;P27635;P18124;Q8IXM3;Q7Z2W9;P62854;Q9H0U6;Q96EL2;P49207;Q9BQ48;P62081;Q9Y3D3;Q9P015;P30050;O60783;P82914;Q13084;P62241;Q4U2R6;P62244;P50914;Q9BYC8;P08865;P62750;P18621;P46781;P62266;Q02543;Q92665;Q7Z7H8;Q9Y676;P09001;Q07020;Q9P0M9;P83881;P46778;P62263;P62273;Q02878;Q9P0J6;Q9NWU5;Q5T653;Q9NRX2;P62280;P49406;Q6P5R6;P62857;P62851;Q9Y6G3;P62910;P46782;Q9NZE8;P61247;Q9HD33;P18077;Q9BRJ2;P62913;P61927;P61353;P62888;Q6NVV1;O75394;P82664;P36578;Q96GC5;Q9NVS2;P62861;Q9BYC9;P35268;P23396;P39023;Q9Y2R9;P32969;Q13405;P82909;O76021;P62701;P05386;Q9Y3B7;Q86TS9;P22090;Q9BYD6;P84098;P62945;Q9BYD2;P26373;Q71UM5;P46777;P05388;P62979;P62899;P82933;P83731;Q9Y3D9;P82663;P82675;P39019;Q92901;P05387;P42766;P60866;Q9NP92;P62841;Q9UNX3;Q9BZE1;P82650;Q969Q0;P61513;A6NKH3;Q9BYD1;P62277;P0C6E6;P46776;Q8N983;P62906;P63173;P82932;P62987;Q9Y2R5;P62891;P62269;P62753;P46779;P63220;Q5JNZ5;P15880;Q9NX20;Q96EH5;P25398;P08708;Q7Z7F7;P47914;O15235;Q9BQC6;P62847;P61254;P82912;P42677;P62829;P52815;Q9BYD3;P62249;P62424;P82921;Q59GN2;Q9Y3U8;P62917}
- 3512 Pathogen[ P03363] interacts with 155 human  
partners: {P62913;P82650;Q9Y2R5;Q9BYD2;P18621;P05386;Q8NHW5;P62750;P23396;P42677;P63173;P08865;Q96GC5;P62847;P18077;P82664;P05387;Q96EL2;P84098;P42766;Q9NZE8;P62249;Q9BYD1;P82921;P05388;P36578;P49406;P62753;P62081;A6NKH3;P62910;Q8IXM3;P61513;P46776;Q13405;Q9BYD3;P82914;P61254;Q9P0J6;P62273;P32969;Q92901;P46778;Q9NVS2;Q9Y3D5;P61927;P62891;P52815;Q6P5R6;Q59GN2;P61353;Q96A35;Q9BZE1;P08708;P15880;Q96L21;Q7Z7F7;Q9H0U6;Q9HD33;Q9Y3B7;P26373;Q4U2R6;P83881;Q96EH5;O76021;Q9BRJ2;Q9NWU5;P22090;P62861;P62841;Q9UNX3;O75394;P30050;P82912;P62829;P82663;P46782;P35268;Q9NRX2;Q9Y6G3;Q9BYC8;P46781;P50914;Q9P0M9;Q9Y2R9;P63220;Q9Y3D9;P61313;P39019;Q9NX20;P46779;Q5T653;Q02543;P46777;P62987;Q8N983;Q7Z7H8;O60783;P25398;Q9NP92;P09001;P82675;Q5JNZ5;P82933;P83731;P62851;P62280;Q71UM5;Q92665;Q9Y3U8;P62888;Q969Q0;Q9Y676;P62244;P62277;P62906;P62266;P62945;P49207;P62241;Q9BQC6;P62424;P60866;P61247;Q9P015;Q9Y3D3;Q13084;P62899;P62857;Q02878;P82909;Q6NVV1;Q07020;P0C6E6;P39023;P82932;Q9BQ48;Q86TS9;P62854;Q9Y399;O15235;P62917;Q7Z2W9;Q9BYC9;P18124;P40429;P27635;P62263;P47914;Q9Y291;P62701;Q8TD47;Q9BYD6;P62269;Q6P1L8}
- 3513 [Cluster 320]GO:0016791+F molecular\_function [name] phosphatase activity [def]  
"Catalysis of the hydrolysis of phosphoric monoesters, releasing inorganic phosphate."  
[EC]
- 3514 Pathogen[ Q2Q067] interacts with 7 human  
partners: {Q9UNH5;Q9BV47;O95476;P49593;O14595;Q16829;Q9GZU7}
- 3515 Pathogen[ P0C214] interacts with 12 human  
partners: {O14595;Q9BV47;O15194;Q8TCD5;Q9GZU7;O95278;Q16829;Q9UNH5;O95476;Q13615;P49593;Q96GD0}
- 3516 Pathogen[ P03346] interacts with 17 human  
partners: {P43378;Q9H3S7;Q86WG5;P49593;O15194;Q9BV47;Q9GZU7;Q16667;P17706;Q96QG7;Q16829;O95476;O95278;Q9Y2R2;P24666;O14595;Q9UNH5}
- 3517 Pathogen[ Q85601] interacts with 10 human  
partners: {Q9GZU7;O15194;P49593;Q16829;O95278;Q9BV47;Q9UNH5;O95476;O14595;Q96QG7}
- 3518 Pathogen[ P14079] interacts with 12 human  
partners: {O15194;P49593;Q8TCD5;Q16829;Q96QG7;Q96GD0;Q9BV47;Q86WG5;Q9UNW1;O95476;Q9UNH5;Q9GZU7}
- 3519 Pathogen[ P03383] interacts with 2 human partners: {Q9GZU7;Q9UNH5}
- 3520 Pathogen[ P03410] interacts with 13 human  
partners: {Q96QG7;Q9GZU7;Q9UNH5;Q96GD0;Q16829;O95476;Q8TCD5;P24666;P49593;Q9UNW1;Q9BV4

7;O15194;Q86WG5}

3521 Pathogen[ P14075] interacts with 2 human partners:{Q9GZU7;Q9UNH5}

3522 Pathogen[ P0C206] interacts with 16 human partners:{Q9BV47;Q9GZU7;Q13615;Q96QG7;Q9Y2R2;Q16829;O95476;P49593;P24666;Q9UNH5;Q8TCD5;O95278;Q96GD0;O15194;O14595;P17706}

3523 Pathogen[ P03363] interacts with 15 human partners:{P17706;Q9H3S7;Q9UNH5;Q9Y2R2;P43378;Q16667;O95476;Q16829;Q86WG5;Q12923;Q96QG7;Q9GZU7;Q9BV47;P24666;O14595}

3524 [Cluster 321]GO:0070016+F molecular\_function [name] armadillo repeat domain binding [def] "Interacting selectively and non-covalently with the armadillo repeat domain of a protein, an approximately 40 amino acid long tandemly repeated sequence motif first identified in the Drosophila segment polarity protein armadillo. Arm-repeat proteins are involved in various processes, including intracellular signalling and cytoskeletal regulation." [GOC

3525 Pathogen[ Q2Q067] interacts with 5 human partners:{Q13033;Q9NRL3;Q9NSA3;Q9HCK8;Q9P1Z2}

3526 Pathogen[ P0C214] interacts with 5 human partners:{Q13033;Q9NSA3;Q9HCK8;Q9P1Z2;Q9NRL3}

3527 Pathogen[ P03346] interacts with 6 human partners:{O43815;Q9NSA3;Q13033;Q9P1Z2;Q9HCK8;Q9NRL3}

3528 Pathogen[ Q85601] interacts with 6 human partners:{Q9NRL3;O43815;Q13033;Q9HCK8;Q9P1Z2;Q9NSA3}

3529 Pathogen[ P14079] interacts with 5 human partners:{Q13033;O43815;Q9NRL3;Q9HCK8;Q9P1Z2}

3530 Pathogen[ P03383] interacts with 5 human partners:{Q9NSA3;Q9HCK8;Q9NRL3;Q13033;Q9P1Z2}

3531 Pathogen[ P03410] interacts with 6 human partners:{Q9NRL3;Q9NSA3;Q9P1Z2;Q13033;Q9HCK8;O43815}

3532 Pathogen[ P14075] interacts with 5 human partners:{Q9NRL3;Q9NSA3;Q9HCK8;Q9P1Z2;Q13033}

3533 Pathogen[ P0C206] interacts with 6 human partners:{Q9HCK8;Q9NSA3;O43815;Q9P1Z2;Q9NRL3;Q13033}

3534 Pathogen[ P03363] interacts with 6 human partners:{Q13033;Q9NSA3;Q9HCK8;Q9P1Z2;O43815;Q9NRL3}

3535 [Cluster 322]GO:0046872+F molecular\_function [name] metal ion binding [def] "Interacting selectively and non-covalently with any metal ion." [GOC

3536 Pathogen[ Q2Q067] interacts with 1049 human partners:{P04156;E7ETH6;O95376;Q0D2J5;Q12901;P02792;Q9HC78;Q09FC8;Q9Y253;Q9H4I2;Q01844;Q9UM63;O15014;Q92900;Q96SQ5;Q9Y473;Q9BYE7;Q9BU02;P07438;Q14526;Q8WV37;Q8N859;O95602;P52742;Q9BRH9;Q96N77;C9JN71;Q8NH7;Q9UPP1;Q9NWK9;P17544;Q13118;P25490;Q8IXJ6;P22392;Q9UK13;P35789;Q9HBH1;Q6V9R5;Q8NA42;Q9Y6X8;O95639;O43167;Q2M218;Q8TA86;Q9UJN7;Q9NXW9;Q03923;Q9Y2M0;Q8WV44;P09917;Q9UEG4;P62633;Q9H2U2;Q9BUG6;A6NDX5;Q8IU60;Q8NEM1;Q9UC06;Q14258;Q9ULX3;P98182;Q9H7X3;Q9H008;O14786;Q9Y6K5;Q9UPN9;Q9Y3S2;P56524;Q9UK11;Q9BY41;P17029;P52738;Q9ULX6;Q9NR56;Q9H0C8;A8MTY0;Q9HAW0;Q96NU7;Q9H7R0;Q96PE6;Q8IZD2;Q99502;Q8IZ26;P6002;Q9BRL0;P10827;A6NJL1;O43361;Q5D1E8;Q9Y462;Q7Z6J0;Q96NI8;Q9UGU0;Q96NB3;O75925;Q6NUN9;P55895;Q9UJL9;Q9UL41;Q9NS56;O60304;P55265;P24278;P49790;Q8NEP9;Q6ZQV5;Q9HBE1;Q9NXR8;Q63HK5;O95391;Q6ZVK8;Q86UA6;Q8N0Y2;Q92664;Q5VTD9;Q15928;Q96K75;Q96LI5;Q8WY54;Q13887;Q8TA94;Q9H9T3;Q7L9L4;O43257;Q8WW33;Q86YE8;P21980;Q9H2K2;P27694;Q08AN1;P49792;P58317;Q9UKV0;Q8WW38;Q6ZMY9;Q8WYH8;Q8N8Z8;Q5VZB9;Q6ZS27;Q08209;A6NP11;Q9UL59;Q8N4W9;Q13889;Q9H2P0;Q6NS38;P10073;Q9HAZ2;Q9BWG6;O75151;Q16775;O60481;Q6IE81;P62273;P13929;A6NGD5;Q5SXM1;Q6IV72;A8MVS1;Q9HAJ7;O14639;P10589;Q8N2I2;Q7Z6K1;Q6ECI4;Q9UC07;Q9NX58;P53804;Q8IWW8;Q9P0U4;Q9H9D4;Q12986;Q9NR48;P13056;Q8IXK0;Q9C0F0;Q6ZT77;Q9UHF7;O43189;P62508;Q9ULD5;P51508;Q14590;Q9NTW7;Q9Y2Y9;Q96NG8;Q6ZM06;P41182;Q9Y2X9;P19474;Q9H5H4;P10828;O60260;P30793;P55197;Q8NBB4;Q96H40;Q9Y6E7;P49910;Q8N5U6;Q15326;Q9NZV7;Q32MQ0;Q6P2D0;Q9HCL3;Q6U7Q0;Q93083;A6NIX2;Q9UKJ3;P22033;Q8TD23;Q53FD0;Q9H0F6;Q96SK3;Q96IT1;Q147U1;Q15697;O43255;Q96LW1;Q9NZL3;Q7L2R6;O00167;P08151;Q9C086;P36639;O96006;O14618;O43439;Q99676;Q9NRR4;Q96T88;Q96SL8;P37275;Q8IYW8;O75081;Q05516;Q8NF64;Q05481;Q02930;Q9Y6K1;Q9NVW2;Q8NCK3;O00743;Q8NDW4;Q9NRN7;Q15696;Q8NDF8;O75820;P49116;Q9UIF7;P10074;Q15046;Q7Z2E3;O60315;Q15181;Q9P0L1;Q9ULV3;Q14119;Q9H4Z2;Q00994;Q6P9A1;Q12933;Q96MA1;P62140;Q8IXT2;Q96PQ6;Q86SE9;Q8N782;Q969S2;Q96NL3;Q8WTR7;Q9NYJ8;Q8TAW3;P51815;P14373;Q9UIS9;Q8TF20;P34949;Q9HB58;Q6ZR52;O60930;Q99684;P52741;Q9UDV7;Q8N9V7;Q8TF68;Q3KQV3;Q9H777;Q86WB0;Q9P255;O76031;Q8NC26;O43296;Q76L83;O94776;Q9H4T2;Q9UBU7;Q8IWL3;O14709;Q08ER8;Q14192;Q5T5D7;Q9NQX1;Q9Y5R5;Q8TE76;Q96S55;Q6ZMW2;Q9UNA4;P30876;P15976;Q9UNL4;Q9BWX5;Q2M3W8;O14686;O15535;Q6H8Q1;Q4VC44;O14628;P58557;Q8TBC5;Q9UBQ0;O15350;Q6ZSS3;Q96GX9;P02511;Q02447;P52594;Q86YF9;Q9NSD4;Q2M1K9;Q86YP4;Q96SC8;Q9Y3Y4;Q6ZNA4;P67775;P17030;P17031;Q7Z340;Q86UE3;O75362;Q96FX2;Q16670;Q96N95;Q9Y5A6;Q9UBZ9;Q8TF47;Q9NQ29;P17036;Q9ULJ3;Q6VVB1;P17040;Q15560;Q2QGD7;O95551;P17010;O95625;P17038;Q9NTG7;Q9UK12;Q8WU90;Q9UDW3;P38935;Q9NYG5;Q96CB8;P08047;Q8TC21;P11473;Q96C28;O75928;O15355;Q92905;Q13342;Q16629;Q9ULJ6;Q15022;O43829;P16415;Q9BSM1;Q8NHM5;Q86Y25;Q9H9Y6;P0CG00;O95848;Q8N184;Q96NJ6;O14829;Q8WUB8;Q8WYQ5;P13640;Q13129;Q9H7S9;O95394;Q7Z3V5;Q8WUY3;Q3SXZ3;Q9BV57;Q5TAX3;Q14CW9;P28702;Q9UFB7;Q6IQ21;Q13398;Q53GI3;Q8IU81;Q96MR9;Q86TP1;Q6PJT7;P36871;Q14134;Q96BV0;O75446;Q9UJW3;P35227;A8MT65;A6NK53;Q86TJ2;Q9BUY5;O60663;P07902;Q96QC0;B2RXF5;Q8N3J9;Q8N6T7;Q9Y2P0;Q9Y2H8;O15304;P52743;Q499Z4;Q15937;Q68DK2;Q7Z2W4;P27695;Q9UBC3;Q9UHK0;Q68EA5;O43823;Q8N5C8;O60711;Q96IF1;Q68DY1;Q8IXW5;Q7RTV3;P27797;Q9UQL6;Q8N5P1;Q16851;Q9UBU9;Q9HCG1;O43593;P06746;P61927;Q6P280;Q9NRG4;O95159;Q8TAU3;Q92994;Q9UL58;P52747;Q96SR6;P78317;P11532;Q14929;Q99504;Q5T619;P23769;Q8NFW9;P62714;Q14593;Q15929;Q8TB69;Q5T6S3;Q



15072;Q15935;Q9H8S9;Q96C00;Q9BYK8;Q8IVP9;Q63HK3;Q5TA31;Q86Y13;Q9UII5;P04732;O75582;A8MUV8;Q9P243;Q9ULM2;Q9NP64;Q96N38;A8MWA4;P49356;Q9UGP4;Q5SVQ8;Q9BTC8;A8MQ14;Q96CX3;Q8IWS0;P25791;P17032;Q99728;Q86TA1;Q96BD5;Q6P9G9;P26358;P51948;Q52M93;Q96G03;P31350;P15621;Q6GPH4;Q92782;P46976;Q14585;Q9NQX6;Q96MT3;P17022;Q68D11;P51504;P67870;P04733;Q9UKY1;Q8WWW0;Q8N8C0;Q9Y2D9;Q96SZ4;Q15654;P56270;Q6IQ32;A2RRD8;B4DXR9;Q9UKD1;P6ANX45;Q86US8;Q96017;P17098;Q75437;Q8NF99;Q9Y4X5;Q13360;Q9UBF6;Q9HCC9;P84022;Q6P9A3;B1APH4;P46939;P68871;Q9BQ83;Q8N448;Q66K41;P0C7X5;Q8IYH5;Q13330;O60284;Q8WUU5;O60220;Q9Y6K9;O95628;P36873;Q96GC6;Q76KX8;Q96FQ6;A6NHJ4;Q9Y5J6;Q9P2R6;Q8N3F8;Q8N895;Q96N22;A8MXY4;Q8N141;Q03924;Q8TAT6;Q96LX8;Q8TBB1;Q5JNZ3;Q96EP1;Q9Y2Q1;Q9H091;Q6PK81;Q96NG5;Q13114;Q7LG56;P06396;Q96PM5;Q86UW9;A6NNF4;P09467;Q13127;Q9P2J8;O95780;Q9UQ84;Q96JM3;Q6PF04;Q6NZY4;Q9BR84;Q9H116;O00625;P29474;Q9Y6X2;Q9UBW7;Q96DE0;P11161;Q9NWT6;Q9NWX7;O75152;Q13233;Q05BQ5;P09874;Q8NI51;P15622;Q96K62;Q7Z3K3;Q5T200;P62136;Q3KP31;Q5JVG8;O43830;O43918;O75251;Q96Q83;Q49A33;Q8IW19;O75306;O14746;Q12873;P86452;Q9NX46;Q9ULU4;O15164;Q9GZX7;Q3SY52;P35226;B4DX44;Q9H160;Q01081;Q8N988;P59923;Q9Y4L5;Q9BRX2;Q969J2;Q5VUA4;Q9NYT6;Q494X3;A6NM28;Q9Y2L8;Q8IYB9;P46100;Q92993;Q8IX07;O60291;P99999;Q32M78;Q9H9Z2;P53041;O14771;Q9NQZ8;P0CH99;Q8WUI4;Q8N823;P17041;Q8N9K5;P55055;Q9UIH9;P38936;Q9BSG1;P0CJ79;Q3MJ62;Q969S3;Q8N7M2;Q9BT49;O60765;Q8NB50;P21912;Q9H0W9;Q9NZU7;Q3ZCT1;Q9UKV8;Q9P2R7;P39748;Q9NRL2;P69905;Q96KS0;O75164;Q5HYK9;P62875;Q99496;Q53G26;Q5VTR2;O95218;Q8N9Z0;P80294;O75312;Q92785;P24928;Q2VY69;Q9H6W3;Q96T23;Q8WTV1;P51523;Q9H963;Q969R5;Q9NYW8;O76064;Q8WY41;Q86TG7;Q5BKZ1;Q6BYN7;P62072;Q96GE5;Q9NWF9;Q96IV0;Q8N720;P51786;Q9HCZ1;Q8NB42;Q8IZQ1;Q8TDB6;P78549;P23193;Q9HBT7;Q7L590;Q9C035;Q9Y383;Q9H6Z9;Q8TBZ5;Q9HAH1;Q9H1B7;Q8N371;Q86VM9;Q9Y2P7;Q6P3V2;Q9Y5J7;O75346;Q14588;Q14839;Q6ZMV8;O15504;P15336;Q14592;P21399;Q6AZW8;Q6NSZ9;P28838;P35813;Q86V15;Q9UKT4;P28698;Q6ZNG0;Q8N9F8;P04053;P20042;P0C7V5;P17021;P08235;Q8WV99;Q96QT6;Q9UID6;Q14872;Q9UDV6;Q3KNV8;O75688;O95271;A4D1E1;Q5CZAA;Q9Y3C5;Q96HQ0;Q99590;Q9UKN5;Q9UNY5;Q9H707;O75150;Q9UM07;Q06455;Q9NSJ1;Q9UKT9;Q9H0A6;Q5SVZ6;Q96NY9;B4DU55;Q6PG37;O60290;O75373;Q9BYX4;Q8LW36;Q19AV6;Q96CS4;Q13642;Q49AA0;Q8N490;P11474;Q9GZU2;Q86TJ5;Q9NS23;Q8IVC4;Q8N488;Q96MB7;Q9UK10;A8MUZ8;Q9UPA5;P29083;P04731;O75382;Q96EK4;Q96SE7;P47974;Q86YI8;O43318;Q7L945;Q8NDQ6;O75764;Q13106;Q9GZT9;Q86XF7;Q5TEC3;Q96AY2;Q9UIL8;Q9HA77;Q96PU4;O14964;O95125;Q9UIF9;Q68CP9;Q7Z4H3;P17019;P0CG31;P16455;Q9UKF6;Q92844;P0C7X2;Q92793;Q9Y2G7;Q8IYX0;Q70IA6;Q93052;Q9UJW7;Q6IEG0;Q96MF7;Q9NSC2;Q03393;Q5T819;Q92670;P52736;Q8N3Z6;P63272;Q96NJ3;O75800;P14324;Q86XN6;Q9GZAA;Q9NP87;P53803;Q9H8G1;Q96MN9;Q9BQ52;P24941;Q9BQA5;P17025;P42677;A6NK75;P49593;Q15652;Q8N587;Q8N7Q3;Q7Z398;P13682;Q8IYI8;P26651;Q86V71;Q53T94;P52744;Q9UGR2;Q86Y01;Q93075;A6NN14;Q96JL9;Q9H974;P0CB33;Q6ZNH5;Q9H040;Q9NWS9;Q3ZCX4;Q9BX82;Q9UHR6;Q9NTM9;P49589;Q9UBL3;O95453;Q86XK2;Q9HCM9;Q9P0T4;P80297;Q8IY57;Q5VWG9;Q5HY98;O75792;Q9UIF8;Q9UH90;Q15637;P02489;Q8NEK5;Q9Y692;P55198;Q9Y252;Q8WXI9;O00463;Q8NB12;O43309;O14978;P35637;Q6ZM79;P06733;A7E2V4;Q9H7R5;Q9C0F3;Q9BXR0;O60870;Q8N972;Q13490;Q9H0M5;Q9UL40;Q9NVV4;Q6ZNO8;Q8NHY6;P31689;Q8TBZ8;P27815;Q9UIE0;Q9Y468;Q8IXJ9;Q68DY9;Q5VIY5;P0CG24;O75290;P22681;Q6P1K8;Q8WXB4;P60510;P49711;A2A288;Q8N5A5;Q9NVV9;P23297;Q00987;Q9HC16;Q9BWM5;Q8TF72;Q96GM8;Q16600;Q2M3X9;O14595;P52737;Q9UQR1;Q8N668;Q8TAF7;Q9W154;O14802;Q15776;Q66K89;Q08AG5;Q7LBC6;Q12874;O75132;Q86W11;P51522;P22736;Q96EY1;Q6ZM17;O15392;Q96PM9;Q96BR6;Q96IR2;Q06587;Q9ULM6;Q969W8;Q6ZNA1;A6NKH3;O95201;O43345;Q8TDD2;Q5FWF6;Q8N393;P62877;Q8WTV3;Q8NAP3;Q96ND8;Q96LW9;Q12830;Q3MIS6;Q9UL36;P02795;Q8TAQ5;Q13501;O95571;Q13105;Q9NV72;Q6ZNG1;Q9Y3A3;Q8IYN0;P48200;Q96JCA;P09234;O15015;Q9GZU7;Q9UPG8;Q9Y2A4;Q07352;P21506;Q14584;Q13888;Q9Y6R6;Q86XU0;Q96IU2;P17014;Q8IUD6;P17023;Q9Y242;Q8NDP4;P18146;P61513;P28715;Q7Z6E9;Q03112;Q15650;Q15428;Q9NW38;P17028;O96028;P15822;Q03936;Q00403;Q13064;Q9H1K1;Q6NZ36;Q8N2W9;P17024;Q7Z5L9;Q71UM5;A8K8V0;P98168;Q9UBS8;Q7Z3I7;P23025;P51003;Q9NUP7;Q03938;Q8TF39;O15297;Q9NRC8;P62979}

3537

Pathogen{ P0C214} interacts with 1233 human

partners[ P22681;Q8IW19;Q86UD4;A6NDX5;Q9UGP4;Q6ZN55;Q92993;Q5BKZ1;Q6NX49;Q6PDB4;O95551;P29474;Q92618;Q6NZY4;Q06732;Q8NEK5;Q9NQZ8;Q14526;Q9UKA1;Q8NFW9;Q8NI51;P02794;Q96GM8;Q9HAJ7;Q9Y6X2;Q6IQ32;Q7Z3K3;Q96C28;Q9HBH1;Q9GZZ9;Q14527;Q8N371;Q96MU6;Q9P255;Q9UKN5;O75306;Q96RE9;P35226;Q13907;Q969S3;Q8IWW8;A8MUV8;Q9NWK9;P08294;O43296;Q6ZM17;Q9ULX3;O60346;Q9BU02;P49589;Q8TBZ8;Q8IZC7;O75467;Q6ZM11;Q8N9V7;Q96LW9;Q86TA1;Q9UID6;P27695;P09917;P49754;P35813;Q6ZNA1;O75874;Q9P0T4;Q7Z6J0;P35789;Q8NDQ6;Q96PM5;Q13887;Q9H0A6;P35227;O14786;P17032;O14595;Q9H040;Q14593;Q15697;A6NGD5;A8MVS1;Q9HCZ1;P19474;Q02930;P56270;O43829;Q9NVH6;Q15022;P51508;Q7Z398;P22695;Q99643;O60663;Q9NRL2;P11474;A8MQ14;Q13330;O14746;P52743;Q99728;P35637;Q9BQ83;Q9Y6K9;Q9BT49;Q9BU89;P31350;Q8WUY3;P62140;Q4VC44;Q9POL1;P17010;O43257;Q63HK3;Q9ULD5;A8K8V0;Q9UHF7;Q8WV44;O75764;O95453;O43830;Q96S55;Q9BS34;Q9Y2A4;Q8WWW0;P60002;Q6PEW1;P0CI00;P35558;Q14872;Q8IXK0;Q8N7K0;Q13490;Q86SE9;Q16775;Q8IYN0;P49902;Q14929;Q9UKF6;Q6IEG0;Q8NF64;P28838;P17023;Q9BX82;Q9Y2D9;Q14591;P30876;Q9Y5A6;O15194;Q6ZN57;Q8NDF8;P51814;P02042;Q5T5D7;Q05481;A6NHJ4;Q96SQ5;Q92664;P0CB33;Q9UL59;O75925;Q7Z4H3;P52744;Q96IV0;Q6ZNH5;Q9H9Y6;Q5JVG8;Q8IWY8;Q8NC26;Q8N5A5;O14829;P15336;Q9Y473;Q96LW1;P06746;P02489;Q9NS23;A6NPF11;Q5SVZ6;Q9UH90;Q96I27;Q9UIL8;O15535;P53803;Q9H8S9;Q9BXS1;Q8TD17;Q6PG37;Q96GK7;P22735;Q9NTW7;P02511;Q9NTW7;P02511;Q9BSM1;Q9C0F0;O75820;P53396;Q9BWM5;Q8TAQ5;Q9UDW3;P52742;P51003;P62273;Q14587;Q12873;Q9NPC7;O95628;Q86UE3;Q9UIH9;P27815;Q92900;Q7L590;Q8TBC5;Q00987;Q96FX2;Q9GZU2;Q8NDP4;Q96CX3;Q96NJ3;P52738;P28331;Q5JVG2;P0CG31;P12694;P23025;Q9NR56;Q96K62;Q96BR6;Q9HBE1;Q8NCA9;Q7L2R6;Q9NS56;Q8TD23;Q9P2F9;O15350;Q9C035;Q8N587;Q53FD0;Q8TAU3;O00167;Q8N2W9;Q14119;Q14CW9;Q03112;Q9UJN7;P17019;Q8N0Y2;Q8IVP9;Q9UC06;C9JN71;Q9C086;O60220;Q68DY1;Q5MCW4;Q9P2N5;Q9BV57;Q99676;Q8NCK3;P55265;Q5JTZ9;Q8N823;Q9UNY5;Q8NEP9;Q08AN1;Q9Y6K5;P17022;O75362;Q9NUA8;Q9H6B1;P23769;Q9BRX2;Q5T6S3;Q92793;Q16587;Q9BTE6;Q7Z7K2;Q969W8;Q15637;Q96NY9;Q00994;Q96KS0;Q9UIF8;Q499Z4;Q5T200;Q96GE5;O95625;P79522;Q86XU0;Q96QT6;Q7Z5L9;Q8TF20;Q9UBZ9;O43167;Q6P9A1;P84022;O75437;Q6PK81;Q9H4G8;Q6P1L6;Q9UL58;P29401;Q86WB0;P29728;O95125;Q5TYW1;Q9NWX7;Q15428;Q6PF04;Q76L83;Q86WZ6;Q6PII5;Q9P2R6;Q6NZ36;P56524;Q96PU4;Q9UK11;Q86YE8;Q9NR11;Q96CS4;Q9Y6K1;O14709;P17029;P17544;Q12986;Q9Y2Y9;Q96BD5;Q00403;Q96SR6;Q8N

AP3;Q9UK13;P61513;Q9UL40;Q9H0F6;P17026;Q96MN9;Q8IUD6;Q96SK3;Q9NW07;O14639;Q9UNL4;Q5HY98;P48735;Q2M1K9;Q63HK5;Q8TCD5;Q96GX9;P69905;O75123;Q2M3W8;O14964;Q06455;Q9UHK0;Q02386;Q15973;Q3MJ62;Q9H777;P37275;Q3KP31;Q6PJT7;Q70IA6;Q8N8C0;Q15928;Q8N448;Q8IXW5;Q8NHY2;P49792;Q9ULJ6;Q86TJ2;Q9UPG8;Q96K58;Q9BYX4;Q8NG27;A8MT65;Q9Y3C5;Q96J4C;Q9HA92;Q71LUM5;P98168;Q7Z3I7;Q8IZ26;Q8N9F8;Q8N668;P48200;Q9Y2M0;P17024;Q9Y2Q1;Q6ZR52;Q06396;Q7L9L4;Q9NUQ29;O14771;Q9H6Q4;Q12901;Q96NG5;Q8N819;Q96N77;O75164;P55198;Q96SE7;P07511;Q9H091;Q9UBU7;Q6ZN19;Q9UL41;P17038;Q9Y468;Q9UC07;Q99807;P38935;O95396;Q494X3;Q96MR9;Q15Y2P0;Q9GZU7;Q96K75;P16083;P62877;O96006;Q9UII5;Q4V348;Q96SZ4;Q6IV72;Q9BXR0;P51854;Q8N141;Q86UY8;P51786;Q9BY31;Q01844;Q15560;O43318;Q9UHR6;Q96BV0;P13640;Q6P1K8;P38936;Q5SVQ8;Q8N883;Q96MT3;Q3SXZ3;Q9GZX5;Q8WW22;Q8IWL3;Q9NXT0;Q9UKD1;Q13064;P51523;Q9H4I2;Q147U1;Q8WXG1;Q9BSK1;P24278;Q96T88;P17031;O75792;P46976;Q9HCX3;P78317;Q9Y3Z3;Q5VTD9;Q7Z2W4;Q13398;Q53GI3;Q9HBT8;P86452;Q9NWF9;Q5VZB9;O60290;Q8WTFV1;Q8N5U6;P62072;O95571;P53701;Q9H0W9;P17030;Q9BWG6;Q03936;Q96NL3;Q99798;Q8TF68;P60510;Q9UKJ3;Q9BYK8;P80297;O75800;Q9P2R7;Q5VWG9;Q86XN6;P11532;Q13501;O76031;Q07352;P62714;O95989;Q8N5C8;O95201;Q8TC21;P28698;Q9NWS9;Q14258;Q9H3H1;P15622;Q6ECI4;Q9UM07;O75312;Q6ZSS3;Q9BRR0;Q6ZN08;Q8N859;Q9H1K1;Q13129;Q13642;P13056;Q9UIS9;Q9HC78;Q9NPG2;P28715;Q96MB7;O75446;Q9HC16;B1APH4;Q9UL36;Q9ULJ3;P13929;Q9ULM6;Q03393;A6NIX2;Q3KNV8;A2A288;P98170;P30793;Q86US8;Q96G03;Q9Y6R6;Q49AA0;O60870;Q8TAT6;O43439;P09467;Q9NTM9;Q13233;Q92844;P49790;O43681;Q7Z340;Q6ZNG1;Q96AT9;Q8IXJ9;Q15696;P50213;Q9UIF9;Q8IYH5;P55895;P49116;Q9H6Z9;P22033;P36871;Q8IZQ1;Q96IT1;O60765;Q15124;P68871;Q06730;Q9UJU3;Q8N184;Q9UGU0;Q86Y25;Q6NS38;B4DXR9;P14618;Q8IWS0;P51948;P25791;O75132;P69892;P99999;O75373;Q8WTZ3;Q9NVV9;O94776;O96017;Q92905;Q96AY2;Q9Y2H8;Q15929;P49257;Q8N4W9;A8MXY4;O95071;Q96PE6;Q3ZCX4;O43837;Q68DI1;Q7Z6E9;Q8N488;Q9H5H4;Q06587;Q6P280;Q9HCC9;Q5VUA4;Q16600;P17014;Q9NTG7;Q8N9K5;Q8NF99;Q9UJW7;Q8TBZ5;Q49A33;P09104;Q8N2I2;O75290;P49356;Q16851;O14832;Q96JF6;P46100;Q6P9A3;Q6AW86;Q9BQ52;Q9UNA4;Q6P587;Q26358;Q6ZMW2;Q8TF47;Q92994;Q6DD87;P04732;O43189;O95376;P51504;Q7Z2E3;Q96N95;Q8TF39;Q9BTP6;Q12933;Q9NVW2;Q96MF7;P46939;Q86YP4;Q6P2D0;Q9H6W3;Q9UIF7;Q9C0F3;Q9H7X3;Q96N22;Q8NBJ7;P55197;Q9HCK1;Q9NYT6;Q03924;Q5FWF6;Q08209;Q9Y242;Q9NYW8;Q08AG5;Q9BYE7;Q86TJ5;Q9H8G1;Q8IYL2;Q8N6M9;Q6GMV2;P63272;Q9HAZ2;Q8N7M2;P17028;Q9P2J8;O95780;P0CH99;Q99590;P98169;Q8N490;Q3MIS6;Q6P1N9;Q9UKV0;Q8WW38;Q9Y5J9;Q15652;B4DU55;Q9H160;Q9NQQ6;Q5T8I9;O75152;P81815;Q6ZS27;P62136;P02100;P51522;Q8N393;O43823;P24941;O15060;Q86TP1;P536804;Q9BUG6;Q9UBS8;Q15654;Q6ZMY9;O15014;P02795;Q9GZT9;P58557;Q8WXI9;Q5EMQ5;E7ETH6;P36639;Q2QGD7;Q9Y6X9;Q96N58;P17020;P04733;Q76KX8;P67775;Q9NSC2;Q9Y5J6;Q8TE76;Q969J2;Q9ULM2;Q14192;O60930;O43593;Q86V71;Q9Y3M9;P17027;Q86UQ0;Q96GC6;P41182;Q9Y6X8;O60711;Q6P9G9;Q03923;P14324;Q9H1B7;Q5VZL5;Q99504;Q9NRR4;Q8N972;P17098;Q8IV48;Q6ZT77;P21506;Q8IYB9;P06733;Q01081;Q9NCZ7;Q53G26;Q9UHY7;Q8N6T7;Q9UBW7;O95251;P17035;Q9HA77;Q9HCM9;Q17R31;O14618;Q8TBB1;P0C7X5;Q9NW08;Q8IX07;Q9ULX6;Q9UJL9;P49588;Q9H9Z2;Q6U7Q0;A4D1E1;A6NKH3;Q13127;Q8NDW4;Q9BSG1;P53041;Q8IU60;Q8WV99;Q9NXW9;Q15650;P62875;Q2VY69;Q9Y252;O75346;Q86YI8;A2RRD8;Q6ZNG0;Q15072;Q93075;P13682;Q9BTC8;Q86W11;Q12874;Q6NSZ9;A8MWA4;Q5SXM1;Q96ND8;Q5TA31;Q9H2K2;Q6ZNA4;Q9H4T2;Q9UKV8;P17040;Q96NB3;O95639;Q6GPH4;P16455;Q6V9R5;Q9P0J1;Q9Y2X9;P58317;Q9UDV6;Q96C00;P10074;P24928;O43918;Q68EA5;Q99496;Q9NP64;P52747;Q8IYX0;O75582;P26651;Q8N9Z0;Q9NV72;Q5VIY5;Q8WUB8;Q9Y462;Q9UEG4;Q15935;Q9H9T3;P62633;Q9UKT9;P36508;P43243;Q7L945;Q07343;O43345;Q9H4P4;Q6IE81;O15392;Q8WU90;Q9Y2G7;Q8WY41;P17041;Q8NB50;Q96HQ0;Q6NX45;P49711;Q13106;Q9NUP7;Q02447;Q99766;O15297;P42677;O60291;Q8N8Z8;Q53H82;P17021;P18146;Q96JL9;P0C7X2;Q8WTR7;Q8IU81;P07327;P0CG00;O15164;P15621;Q0D2J5;P0CJ78;Q13114;O95602;Q66K41;P04156;Q8IVC4;Q8N3J5;Q66MX3;Q14584;Q9UBQ0;Q96T23;Q3SY52;Q8WY54;Q16822;Q9NQL1;P27797;P07438;A6NKH75;Q96CB8;Q9C0D7;O15504;Q6ZNO6;P57071;Q9NPC3;Q6IQ21;P34949;Q96JB3;P07902;Q14592;P17036;O43309;P39748;P17039;Q9NX65;O95394;Q9Y5J7;P04053;Q8TAF7;P98182;P0C7V5;Q9UDV7;O14521;Q86TG7;Q96IU2;P36873;Q86XK2;P21980;Q8NB42;Q96H40;Q52M93;Q8IXJ6;Q13615;Q96NU7;Q8N8L2;Q86Y13;A6NMF4;Q9HB58;P02792;Q96SL8;Q8WW33;P11161;Q13888;Q6ZRF7;O75150;Q9UJW8;Q96JM3;Q9GZX7;O75251;Q6ZMV8;Q5T619;Q96PQ6;Q8NHY6;Q8IW36;Q3LIE5;Q14585;P80294;P78549;P49593;O14978;P16415;Q6ZQV5;Q9UIE0;Q2M218;Q9NR48;Q8N7K0;Q9HCG1;Q9NZV7;P04731;Q5TEC3;O60293;Q9H9D4;A8MUZ8;O60260;Q9UQ84;Q0VGE8;Q96BT7;O76083;Q08ER8;O95218;P49910;Q9BR84;Q86V15;O00743;Q8TB69;O60884;Q96GD0;P27694;Q68DK2;O95848;Q9H707;Q96N38;Q9HBT7;Q68CP9;Q9HAW0;P08151;Q92804;A4D2B0;Q9UFB7;O00625;Q075688;A6NM28;Q9ULU4;Q9H008;Q93083;P09234;Q53T94;Q15181;Q99684;Q6H8Q1;Q9Y4L5;Q9HCL3;Q6NUN3;Q9P243;P22392;P52594;Q13342;Q9Y3A3;Q9BUY5;Q86UA6;Q8N3J9;Q9BQA5;P20042;A6NFI3;Q15776;Q9BYN7;Q9UM63;Q8N782;Q9NP87;Q9NRC8;P10828;Q7RTV3;P23193;Q8N1W2;P35520;Q9H7R0;Q8WYH8;Q96FQ6;P52736;P67870;Q8WUI4;Q8TA86;Q13360;Q96NJ6;P14373;Q3KQV3;Q9NRN7;O00463;P17017;Q96LI5;O95391;O14628;Q9Y3Y4;Q9H974;Q5F1R6;Q15046;Q9H0C8;P69891;Q3ZCT1;O95271;Q86Y0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3538

Pathogen[ P03346] interacts with 1425 human

partners:{Q86UQ0;E7ETH6;Q96T92;Q5F1R6;A6NK53;P02792;O15014;Q7Z3K3;Q3KNS6;O75382;P62136;Q96NG5;Q5JVG2;Q9Y3Z3;Q969S3;Q13886;P08048;Q9BZE0;Q9NS91;Q12901;Q05481;Q9Y6X9;P21980;O95201;Q9NWS9;Q9UPN9;Q9Y6K9;Q7Z398;Q8NI51;Q9Y253;Q9HBH1;Q9UKS7;Q96N20;O95639;Q9Y467;P17097;Q3KKNV8;Q12874;Q12830;Q9NZU5;Q96LW1;O75603;O00463;Q9H2U2;P57071;Q5T5D7;O75592;Q4VC44;Q7Z7K2;Q9HBT8;Q8TA86;Q9UHF7;Q9H0C8;Q13263;Q494X3;A8MX4;Q9NQX6;Q9ULM6;O00743;Q9NR83;Q5TD97;Q9ULX3;O60346;P98182;Q95405;Q8TF39;Q9Y6K1;O95159;Q02386;P38935;Q9NQX1;P16083;Q86UW9;Q8WXA3;P10827;Q9P2G1;Q8N4W9;Q9H9P5;P35813;P49910;P11473;Q3MJ62;P28715;O94892;A6NGD5;O15535;Q8IZM8;Q9NP64;O76064;Q9NPA5;P55198;Q9BTC0;P86452;Q9NQV7;A2RRD8;Q6P1L6;P0CG31;Q9HAH1;Q9BV68;Q08AN1;O95677;Q9H8N7;Q96NJ6;A2A288;O95625;Q49A33;Q9BRR0;C9JN71;Q6ZRF7;Q96C55;Q9UGP4;Q7Z340;Q5T1R4;O14829;Q96MR9;Q96FQ6;Q8WV37;Q9NZV7;Q8WTZ3;Q96006;Q96C00;O75112;Q15928;Q96MF7;Q5XG87;Q9NRN7;Q9H091;Q96EK4;Q9BWM5;Q14591;Q99612;Q9BUY5;Q9UEG4;Q14258;O95551;O96017;Q99598;P36508;Q9Y2P0;A6NN14;Q8NCA9;Q8WY54;O75446;P14373;Q8WYB5;Q52M93;Q9H116;Q32MQ0;Q01538;Q8NAF0;Q3KNW1;Q15916;Q9ULD5;P46100;Q6PCD5;O15392;O60765;Q8IZC7;Q9UQR1;O75150;P56270;P17039;Q2QGD7;O75362;Q5T8I9;Q9Y2P7;Q8N6M9;Q8NAP8;O14639;Q86US8;Q5HYK9;P06401;Q9UL59;Q8IW19;O43918;Q9H0M5;P55265;O43167;Q9Y4X4;P17098;P29474;Q86V71;O14901;Q9UNL4;Q9H2H0;Q8NC26;Q96NJ3;Q9NWF9;P62633;Q13489;P15336;Q9UIF8;Q96HQ0;Q9NU63;Q13129;Q9H8W5;Q2M218;P52739;O15209;Q9UGR2;P0CJ78;Q8N141;Q8WYH8;Q5VTR2;Q7Z3V5;Q9H2P0;Q8IU81;Q9P253;Q9C0F0;Q8IZQ1;Q6ZT77;Q9UL58;Q8NCN2;Q8N823;Q8WW38;Q6ZQV5;P52747;Q7Z6J0;O00167;Q9Y2L8;P08235;O95171;Q3KQV3;O43296;Q8TAQ5;O95376;Q9UKF6;Q6PEW1;Q9BXA9;Q86TJ5;Q9Y5W3;P13929;O60930;Q96QC0;Q96K75;O43309;P61927;Q5FWF6;Q9ULM2;P27694;Q9NPM62;Q6ZSB9;Q7Z3I7;P02489;Q9UKT9;Q9P0T4;Q06732;Q96H40;O95714;Q8N668;P23297;P48443;Q8IXP5;Q8N7M2;O75123;Q9Y3C5;Q96IQ9;Q14590;P0CH99;Q96K62;Q9NW07;Q6V9R5;P35789;O75312;Q8WU90;P52740;Q9NR11;Q9BYM8;Q8TD23;Q08AG5;Q14149;Q99728;Q53FD0;Q9P2N5;P49754;P35226;Q969W8;Q7LBC6;Q96S24;O95391;Q96MU6;Q9C086;O60315;Q9BWX5;O60290;Q6P1K8;P17027;Q5MCW4;Q9UNA4;Q9BV57;P51786;Q8NH2;Q03936;Q96JG9;Q15911;Q2M1K9;Q86T29;A8MUV8;Q8IUD6;O95628;Q147U1;P02100;Q8TD17;Q14587;P52738;Q70IA6;Q9NQV6;Q8TF45;P49116;P0CB33;Q9UJQ4;Q8N680;P49257;Q9B339;Q9UK59;Q9Y3Y4;A8MVS1;P24278;P43243;Q8WV99;Q96KM6;Q8NEP9;P23769;Q14872;Q9UBZ9;Q5VIY5;Q14527;Q8IYL2;P25490;O95848;Q8N5U6;O15304;Q9NZU7;Q5H9K5;P24941;Q15637;Q9NS18;O14978;Q9Y483;Q8TE76;P55895;Q6P280;Q9NSC2;Q5T0B9;O43313;Q8N393;Q96I27;Q8TF20;Q13888;Q8NF99;P52741;P55197;Q9C0A1;Q86YE8;Q6ZMY9;Q86WB0;Q9H1K1;O75820;P25800;Q86W46;Q96PM5;Q8IZ20;P56524;Q9UL68;Q9UK11;Q9NTM9;P04732;Q8IYH5;O43298;O14709;Q96T51;Q6NX45;Q7Z366;Q9H4P4;Q3SY52;Q9Y5J7;P58557;Q96QT6;P17026;O43255;P53803;P17022;Q8N5A5;Q8TBC5;Q9H9Y6;Q12986;Q5HY98;P35227;Q86TG7;P18054;P36639;Q68DI1;Q9UBU7;Q9HAJ7;Q12802;Q86UE3;Q71UM5;Q9NTX7;Q9H9D4;P98170;Q5T200;Q3MIS6;Q8N9K5;Q8N895;P52737;Q9Y383;Q7L3S4;O94776;P28698;Q9ULJ3;P13056;Q9N69;Q9NWK9;Q8IYJ6;P02794;Q96CS4;Q9P0L1;Q9C035;Q96IF1;Q9H4W6;Q63HK5;P52742;Q8WV22;Q9UDV7;Q9C0D4;Q9BYE7;Q9NPG2;Q8WTR7;P15622;Q8NDQ6;Q9UBC3;Q7Z6K1;Q9P2Y4;Q96N77;O95630;P10588;Q9HCK0;Q8IVC4;Q8TA94;Q9C0F3;Q6PG37;P06703;Q7L9L4;Q9NYG5;Q9NX65;Q8TF32;A8MQ14;Q86XK2;Q86UD4;Q96SE7;Q9UIF7;Q96AY2;Q9HCG1;Q15942;P26358;P62273;P62714;Q15560;P67775;Q962F9;Q8TAF7;Q9UBL3;P0C7X2;Q9Y3M9;Q96BR9;P17038;Q9UBQ0;Q9H4Q3;A6NK75;Q9H609;O15350;Q96N38;O75626;Q9NTW7;Q99502;Q9Y3S2;Q9BSM1;P09467;P69905;Q9H0W9;Q9NRL2;Q14586;Q00994;P17014;Q92670;Q9NXW9;Q9Y5R5;Q8N587;P10074;Q9UM63;Q9H0F6;P0CI00;Q8NB42;P80294;Q9NV72;P63272;Q86VK4;Q3SXZ3;P49593;Q5TA31;Q15652;Q96BV0;Q9H165;Q09FC8;Q8N859;P52743;O15090;P46976;Q16629;Q13114;Q8NBB4;O75151;Q03923;O75764;Q8NCP5;Q8TAP4;Q6H8Q1;Q9UJW8;Q86V15;O15194;Q9BY31;P36871;P46939;Q9NUA8;P17032;Q03393;Q8N2I2;Q13398;Q66K89;Q53GI3;Q8NF64;Q8N554;A6NJL1;P17025;Q96AX9;P15621;P17010;Q16342;O43345;Q6P9A1;P59817;A8MT65;Q9HCX3;Q9ULJ6;Q9NYW8;O00151;Q13351;Q00987;Q9BWG6;P0CG40;Q0VGE8;Q8N7K0;Q9UKJ3;Q9H4T2;Q53T94;Q8NDX6;Q9NSD4;Q9Y6E7;Q66K41;Q9ULX6;Q499Z4;Q6P9G9;P21912;P08047;Q9BQW3;Q9H582;Q13889;Q96LW9;Q8TF68;P06733;O76031;Q9HC78;Q9H5H4;Q9NRG4;Q8N9F8;Q92766;Q86YF9;Q96JM2;Q8N5C8;Q8TDD2;P98168;Q96MT3;Q9H963;Q9UK10;Q7Z5L9;Q14119;O95600;Q96NY9;Q8N8E2;Q96CX3;A8MUZ8;O95453;P52736;Q8TDW5;Q9NX58;P52756;P98169;Q9H0A6;Q8N490;Q9UKA1;O43593;Q14592;Q6NZ36;Q14618;Q9BWF3;Q9C029;O15060;O60663;Q14526;P07438;P17036;Q6ZNH5;Q6ZMW2;Q8IU60;Q3ZCX4;Q8TBZ5;Q9BS34;Q9UL40;P0CJ79;P45381;B4DX44;P62877;Q96MN9;Q969S2;O60870;Q8NFT6;O75925;Q8NBF1;Q6ZNA1;P28702;P35637;Q9H8W4;P21506;P51508;Q9Y330;Q9UK13;Q8NOY2;P04733;Q8N8Z8;Q86VM9;Q9BT49;Q96JL9;Q9P243;Q8IYI8;P99999;Q8ND82;Q9H2K2;Q96EP0;Q92794;P13640;Q9NS56;Q9Y5J6;Q93083;P84022;O14628;Q86Y25;Q81WS0;Q86SE9;Q8N1W2;P25791;Q96DT7;Q14847;Q8IYX0;Q8NHY6;P09917;Q9BRH9;Q7Z3T8;P31350;Q9Y692;Q8WUU5;P50479;A7E2V4;O60481;Q9UIS9;Q6ZNI1;Q8NB15;P02511;Q6ECI4;Q9UNY5;Q8IYM9;Q7LG56;Q8N1G0;O43829;Q9H7R5;Q8TF47;Q96S55;Q9GZU7;P22736;Q5EEM4;P49356;A8MWA4;P51003;Q16851;P80297;Q15929;Q9UL36;Q9NXT0;Q5JT82;Q5TAX3;Q9ULU4;P15976;O43670;O95125;Q9BR84;Q7Z4H3;Q6P9A3;Q8N339;Q6ZMV8;Q969R5;Q96PE6;Q5JVG8;O43189;Q96F45;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2W9;Q9H707;Q8IYW5;Q8TBB1;Q5VTD9;Q13642;Q96EG3;Q6VVB1;Q9UBS8;P49589;Q14966;Q86TA1;Q9Y5  
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2;Q15935;Q9Y2G7;P62979;Q8WY41;P27797;P41182;Q92994;Q8NFW9;Q9BYX4;Q76KX8;Q96BT7;Q8WUY3  
;Q8N5P1;Q9NUP7;Q8IYB9;P60002;Q9NRM2;Q8NDF8;Q92905;O60291;Q9BUZ4;P78549;P17028;P17020;  
Q9UH90;Q8N3F8;P68871;A6NP11;Q05516;Q8N371;Q9BWW7;Q8N720;Q96MA1;Q5T619;Q43830;P17017;Q  
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UJ41;Q9C0G0;P42677;Q8WWW0;Q14584;Q9H2C1;P36405;P10072;P11161;Q9BU02;O15151;Q8TBP6;P02  
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R0;Q49AA0;Q15181;O75437;O95394;Q17R98;P04053;P0C7V5;Q9UQ84;Q96KS0;Q96PY6;O75251;Q8IYW  
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UK33;P49790;Q13490;Q7Z2E3;P61968;Q9H4Q4;Q9ULT8;Q96ND8;A6NDX5;Q76L83;P04731;P23025;O14  
964;P11532;Q9BSK1;Q9UH73;Q12873;O00625;Q8N972;Q86YI8;P58317;Q8IXJ9;Q9Y4L5;Q96PU4;P226  
81;P13682;Q2M3X9;Q9Y5A6;A8MTY0;Q96LX8;Q9UFB7;Q9BQ83;Q7L945;P17040;P51522;Q9UKY1;Q9UPG  
8;P59923;P24928;Q9H5V7;P62140;P23193;Q7Z5J4;Q96FX2;Q96NL3;O75306;P06396;Q96IV0;Q8WW33  
;P27695;P67870;Q9HCL3;Q5TC79;Q8TDB6;P0C7X5;Q96IT1;Q9UC06;Q13029;Q9BYK8;Q8IXK0;P38936;  
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82;Q86T24;Q9HAK2;Q8WTV1;Q5VZB9;Q9Y252;Q08209;Q9NW38;Q8NEK5;Q9Y2A4;Q02930;Q86Y01;Q1458  
8;Q6AZW8;P21399;O95071;Q8IY57;Q96K80;O75290;Q9HAZ2;Q01101;P26651;P17019;Q8NCK3;Q9BZR9  
;Q6IV72;Q16587;Q9P3V2;O75152;Q5VWG9;Q8IZ26;Q92900;Q9UIE0;Q9504;Q8N988;A1L020;Q8TD94;  
O75928;O75800;Q9ULU8;Q9UL41;Q96GC6;Q15696;Q9Y2J0;Q6FIF0;Q96CA5;P20042;Q68CP9;Q9BSG1;Q  
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BZ4;Q9BQ52;Q9NTG7;Q9Y2H8;Q68G74;Q96RE9;Q9BWX1;Q92804;Q9ULV3;Q93075;Q8N3J9;P09234;Q8IV  
P9;Q5CZA5;Q9RTV3;Q6PJT7;Q92664;Q9NYT6;Q8WXB4;O14595;Q9UKN5;Q13285;P15822;A6NM28;P0CG0  
0;Q06587;Q9NVV9;Q9H160;Q02447;Q96N58;O94822;Q8TEC5;Q6ZNG1;Q6NX49;Q6NTD2;O60711  
;Q9NS23;O43823;P51948;Q99676;Q96LI5;Q96SR6;O14802;Q96DX7;Q9UBF6;Q6ZN08;Q9UIL8;Q9NRC8;  
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9Y6K5;Q92618;Q92785;Q9UC07;Q14929;P55055;Q8TAU3;Q9Y2Y9;Q96SQ5;Q9HCC9;Q15650;Q6NSZ9;P6  
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6PK81;Q7Z2W4;Q9HAW0;P08151;Q06455;Q86TP1;Q9UJ78;Q5VUA4;Q9UBW7;Q96GE5;Q5U5Q3;Q96K58;Q0  
3938;Q9NPC7;Q969T7;Q92610;A6NFI3;P10589}

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Pathogen[ Q85601] interacts with 1286 human

partners: {Q9UQR1;Q9HCZ1;Q8N8C0;Q5SVZ6;Q9ULM2;Q9HCG1;Q9UBZ4;Q8IXK0;Q9P2R6;Q3KNS6;Q9261  
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;P61513;P78317;Q8NI51;Q8IXT2;Q9HBB1;Q15637;P17097;Q9NRC8;P51786;P69905;Q9NRN7;Q969J2;  
Q8N9K5;Q9NZU5;Q32M78;P28698;Q8IZC7;Q92664;P15621;Q63HK3;Q96JM3;Q4VC44;Q9BQ52;P09234;P  
0CG00;Q96CB8;P51815;Q9Y2M0;Q9UHF7;P02489;Q9Y5T5;P36954;Q6ZR52;Q9NQX6;Q13064;Q9UKV0;P0  
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3540 Pathogen[ P14079 ] interacts with 1477 human partners: {Q969J2;Q5VV42;Q9UQL6;P51854;Q15637;Q15916;O00625;P28838;Q96SC8;Q9BWM5;P9816

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3541

Pathogen[ P03383] interacts with 791 human

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3542

Pathogen[ P03410] interacts with 1424 human partners: {Q9NSD4;O60711;Q15650;Q96EG3;Q86UW9;Q9HAW0;P84022;Q9Y2P7;Q96LI5;Q14202;Q400G9;Q8N9Q2;Q9HCG1;Q8WV99;Q9UKT4;Q8IWM8;Q96NI8;A8K8V0;Q6AW86;Q5CZA5;O14786;Q9H0M5;Q3KRA9;Q8NHY2;Q9BWE0;Q9UKV0;Q9UHF7;Q9BSM1;Q4G163;Q96QT6;P08048;P62714;O14771;P46976;O14569;Q9Y2L8;Q9BV68;Q9HC78;Q9ULU4;Q8N1W2;Q96JB3;Q6ZNG0;O14901;Q6ZNA1;Q9P2R7;O15392;P17031;Q5HY98;Q5SVZ6;P47944;Q8IXJ6;P23025;O43309;Q6ECI4;Q8IU60;Q9UPP1;Q9NVT9;Q96RE9;Q6V9R5;Q5JVG2;Q6B0K9;Q9H6W3;O60281;Q8NBF1;O43439;Q14588;Q96FX2;Q9Y5L4;Q96HD9;Q96BR6;Q5EBM4;O75290;B2RXF5;Q9BYN7;Q17R31;Q5JNZ3;Q8TAU3;Q8IYN0;Q9HAJ7;Q9UHR6;Q9NYW8;Q96IU2;P0C7V5;Q9UV7;Q86WB0;Q9H040;Q16822;P60002;Q8WYH8;O75925;Q8IXK0;Q9BU89;Q9B84;Q12873;P61513;P0C7X5;P50479;P02794;Q9UDW3;Q9HAH1;Q5T619;Q9UL41;Q9NTG7;Q01081;P31350;Q03112;Q6ZMY9;Q8NFP7;O95218;O15355;O95639;A6NN14;Q32M78;E7ETH6;Q9NP64;Q53FD0;Q9Y2Y9;Q13106;Q8N9Z0;O95405;Q8NDW4;Q9NZL3;Q9BU02;Q8WY91;Q9UDV7;Q14593;Q96EY9;P02008;P52594;A4D2B0;Q14526;Q9UK13;Q8N8E2;Q96N58;Q5SXM8;Q2M3W8;O60293;Q8WXA3;Q8N8Z8;P62072;O96006;P02144;P16415;Q96N22;P35813;Q6P6C2;Q8TCF1;Q13360;Q15697;Q96T23;Q13889;Q14061;Q8NCG7;O75373;Q99496;O95780;A8K0R7;Q5VUA4;Q8N3J5;Q86VM9;P0CJ79;Q8N7Q3;Q9HCM9;Q14929;Q9BY41;Q8TF68;Q9H0V9;Q9UEY8;Q9BTE6;Q9UKV8;P0CH99;P17040;Q9H974;O95628;Q8TCN5;P30622;Q96QC0;Q16851;Q96H86;Q99766;P15621;P02100;Q9NPA5;Q53G26;P37275;Q15637;P36954;P13682;Q96JM3;Q9H4T2;Q8N587;Q9UL59;Q96AY2;Q9NWT6;Q3V5L5;P36508;Q5VWG9;P58317;Q9UJ41;Q96C28;Q3KNV8;Q8IYH5;Q8N7M2;Q96N34;Q9BRH9;Q96S99;Q86XF7;Q15696;Q3MJ62;P98169;A6NDX5;Q96CB8;Q8WTR7;Q8WTR7;Q96CS4;Q92804;P36871;Q8IV48;Q9UDV6;Q8NBJ7;P07438;Q96NB3;Q9UPW5;Q9HAZ2;Q99676;Q92994;Q9NVV9;P15822;Q9H7R0;Q96K80;O15151;P49257;P52738;Q96MB7;Q9HBT8;Q9Y2J0;Q16629;Q15973;P52740;Q15652;P29728;Q9NVH6;Q9NV72;Q8NDH3;Q9P2R6;Q76KX8;O76003;Q5T0B9;Q66K89;Q08209;Q96KS0;Q96S24;Q92900;Q8WUB8;Q9P0U4;P98182;Q8TDD2;Q8N680;P80297;P49589;Q9H9D4;Q96SQ5;P36639;Q9H4I2;Q96JL9;Q8TDW5;Q9H6Z9;Q02447;Q6PJT7;O95251;Q9C0D7;Q9NXW9;A1L3X4;Q16600;P63272;P60510;O95125;O60481;Q99502;O14746;Q9HBT1;Q06730;Q92670;O15060;Q9BSG1;Q569K4;Q9P217;O75251;Q8N8C0;P0CG23;Q6AZW8;Q6ZMW2;Q6P3V2;P24928;Q9UC06;P49356;Q9UII5;Q6IEG0;A6NFI3;Q15776;Q8NB50;Q9UM07;Q8WV44;P0CW20;Q8TDZ2;Q9UKD1;P04733;Q9C0G0;P25791;O75382;Q9Y6Q3;P10073;Q0D2J5;Q9BQA5;Q9UBT6;Q9H2M3;Q9BTP6;Q9GZU2;Q9Y4I5;Q9BYE7;Q3ZCX4;Q14149;Q9Y5J7;P29083;Q6NZY4;Q8TAW3;Q9ULM6;Q9NQX6;Q8N4W9;Q9NWF9;Q5TAX3;Q9UHK0;Q8TAQ5;Q9UJ78;P06396;Q8BD91;Q8WU05;Q9H857;O75446;Q9UGP4;Q8TD17;Q8N3J9;Q3KP31;Q9BYK8;P49588;Q96N77;Q8N6T7;Q6PG37;Q8NCN2;Q8N8U3;P04053;Q8IYB9;Q9NPF4;Q9UIF8;Q9NYG5;Q9BWX1;Q9NRL1;Q9H1H1;A1L020;Q9H8S9;O75152;Q9H0W9;Q9NTM9;Q19AV6;P35789;O75582;Q9GZU7;Q8WXI9;P20042;Q8NF99;Q8IYX0;Q8TBB1;Q5VZF2;P41238;Q7L2R6;P11532;Q6P1N9;Q96K62;Q96PQ6;O15504;P35637;Q86WZ6;Q9UPG8;O75792;Q6ZN11;Q9H8U3;Q9NYT6;Q7Z5L9;Q9Y6X9;Q9H773;Q92610;Q8NBB4;Q8WY54;Q9UNA4;Q8TF50;P17017;Q8TF45;Q9NPC3;P07902;Q9UKK9;Q12830;Q8NFT6;Q5VIY5;Q969S3;Q96ND8;Q9BTC8;Q13490;O60870;Q8IYI8;Q9UPQ4;Q9UNL4;Q8IW36;P62136;Q92905;P24278;Q86UA6;Q2M218;P06733;Q6P2D0;Q5T8I9;P36405;Q9BYX4;Q14C49;Q08ER8;Q8N339;Q8TF39;Q5FWF6;P12694;Q9UK11;A8MT65;Q9HCI7;Q6H8Q1;Q9BQ52;O43918;A6NHJ4;Q9ULJ3;Q5HYM0;P0CB33;Q8WW27;Q9NXT0;Q9BU19;Q86SE9;Q9Y6X2;Q96JM2;Q9Y6X2;Q9ULD9;Q86YG4;P34949;Q9UHD1;Q9NS23;Q96LX8;Q9NR56;Q9UIH9;Q86XU0;O14639;Q2VY69;Q9H4Z2;Q6N021;Q6IQ21;Q96GC6;O75928;Q9HCK1;Q13501;P20674;O43294;Q9NPC7;Q86UQ0;O43830;Q9C0F3;Q2M1K9;Q9NZV7;P



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Q9H0F6;P51504;B7Z6K7;Q8N9F8;P69891;P13056;Q9NRG4;Q96NL3;Q96GK7;O43900;Q9BUE6;P42677;O15304;Q8IYW8;Q8IZC7;Q8N0Y2;Q16587;Q08AG5;Q9UFBB7;Q8WTV1;Q9H0W7;Q15935;P22735;Q03938;Q86YI8;Q6NX49;P27797;Q9BSK1;Q9BXS1}

3543 Pathogen[ P14075] interacts with 777 human partners: {Q8N490;Q9H974;Q0D2J5;O95453;Q9NZL3;Q9C0F3;Q5VTR2;P53804;Q494X3;Q9BY41;P17029;P06733;Q8NDY1;Q9NVH6;Q9NTW7;O15297;P29474;P68871;Q7Z2E3;Q8NI51;Q9HBH1;P51003;Q9NSC2;Q96IU2;O60663;Q96GX9;Q8TAQ5;Q8N6T7;P51815;Q969S3;Q96GM8;Q8TAT6;Q15929;Q8IXW5;Q6V9R5;Q3KNV8;Q9ULX3;P35813;P31689;Q96MT3;Q96PM5;P11532;P42677;Q9Y5A6;Q9Y6K1;Q969J2;Q86SE9;Q9Y5J9;Q92900;A8MTY0;Q99504;Q96GE5;Q9GZU2;Q5SVZ6;Q9UHR6;Q96KS0;P20042;Q96IV0;Q8N3Z6;B4DXR9;Q9GZT9;Q8N141;P31350;Q13105;P58557;P55198;Q6ZNO8;Q9H4I2;Q9UKJ3;Q969R5;Q9Y5R5;Q9U M63;P51523;Q9BQ83;Q96DE0;P24941;Q14526;P49902;Q9UBZ9;P52737;P0C7X2;Q9NV72;Q9HAJ7;Q96Q T6;P55265;Q9UQR1;Q8NEM1;Q8N371;Q8IXJ9;Q92844;O14746;P23025;Q8WU90;P62072;Q8NC26;Q8N48 8;Q9H3H1;P04733;Q9NTX7;Q96NJ6;Q5BKZ1;P11474;Q2M3W8;Q8NDF8;Q9UM07;Q9BQA5;Q9ULM6;Q15928 ;Q8IY57;Q9C0F0;Q14593;P0C100;A6NHJ4;P80297;O60481;P52747;P10828;Q96QC0;Q8NA42;Q14588 ;Q13064;Q96Q83;Q92782;Q9UKT4;Q86XF7;Q15697;Q8NB50;O60765;Q8NBB4;Q6ZNG1;A1L3X4;P27695;Q 9Y2A4;Q6U7Q0;P30876;Q12901;Q8TD23;Q96GY0;Q53FD0;Q76L83;Q6PJT7;P0CB33;P52736;Q96MR9;P4 7944;Q15937;Q96SZ4;Q9UKN5;Q9C086;O75582;Q9BV57;O95391;Q9H7R5;Q53T94;Q9H116;Q00403;Q7L 2R6;O75362;O75446;Q6NUN9;Q9Y252;Q9Y3Y4;Q9NVV4;Q9P2R6;P29083;P23769;Q9NRL2;Q9UID6;Q9Y2 G7;P59923;Q16822;P26651;Q6P9A1;Q9UFP1;Q9BRX2;P36639;P28698;Q9ULU4;Q9Y468;Q8N782;P0923 4;Q9H7R0;Q9NX46;P38935;Q96SL8;P60510;Q9UGP4;Q14839;P34949;P62633;Q9HBT7;Q15652;Q96WB0 ;O15015;Q96C28;P11161;Q6ZQV5;A4D2B0;Q15428;Q96ND8;P49792;P56524;Q96PU4;Q00994;Q9UK11 ;Q9NTM9;O43918;P17036;Q01844;O14709;Q9H9Z2;P18146;O60930;Q9UJW3;Q9BXR0;Q9NYW8;Q8IZQ1;O 75312;O95625;P06746;Q6ECI4;Q8TE76;Q7LBC6;Q9UBQ0;P04156;Q3MIS6;O94776;O75925;Q5VZL5;Q9 HAH1;P17019;P15822;O95218;Q9UIF7;Q92994;A8MT65;Q96G03;Q96IT1;Q86TA1;O43167;Q8WUY3;Q5T AX3;O00625;Q9H091;O95159;Q93075;Q9HAW0;Q53G26;Q8TAF7;A8MXV4;P62140;O00167;Q9UKV0;Q9H0 40;Q8WW38;Q8N668;Q9BT49;P15336;Q8N2W9;Q9UL58;Q96LI5;Q8IU60;Q9BRR0;Q08AN1;Q96N9 5;P46976;P0CH99;Q8NHY6;Q6ZVK8;O15304;Q03936;Q6ZMV8;Q13398;Q53GI3;Q86W11;Q8N7Q3;Q14585 ;Q9ULJ3;Q9BYE7;O75306;Q13642;O95571;P26358;P13056;Q92993;Q9HA77;P36873;O75290;Q5VWG9 ;O75081;O75132;A7E2V4;O76031;Q9Y2Q1;P17040;Q8N5C8;Q92785;Q16670;Q8WV37;Q9HAZ2;Q8WW33;O 43255;Q9HCM9;P62136;Q9NW38;Q7RTV3;Q8N5A5;O00743;Q9H8S9;Q9Y2M0;Q9ULD5;Q8WV99;Q9H0C8;P0 7438;Q96NI8;Q9BU89;P17098;Q96MN9;Q9UHK0;A8MUZ8;O60870;Q9H777;Q9Y6U7;Q8WTR7;P24278;A4D 1E1;Q86XN6;Q5TEC3;Q86VM9;Q96MB7;Q8IYI8;Q8N5U6;P49116;O95628;Q9NWF9;Q68DK2;P46100;Q9HC L3;Q9HCC9;Q6IEB1;Q8IWS0;P25791;Q06587;Q5VIY5;P07902;Q19AV6;Q9BTE6;Q86US8;Q5VUA4;P6297 9;Q12986;Q6ZNA4;Q9Y692;Q9Y253;Q92670;O14964;Q15326;Q14CW9;Q8TA94;Q9NWX1;Q9NZV7;P49754 ;A6NGD5;Q06455;Q7Z6K1;P99999;Q12874;Q13490;P23193;P22033;Q9NR56;Q05481;Q9UNY5;Q12830 ;P52746;Q93083;Q12933;Q8N4W9;Q9P0L1;Q9BUY5;Q9NTG7;Q32M78;O96017;Q96N22;Q15650;P13640;Q 13889;O15350;P52742;Q8N7M2;Q99684;Q9BYN7;Q8N3J9;Q9HCG1;Q6NZY4;Q9H8G1;Q6ZN17;Q9H963;O9 5780;Q68CP9;Q8NDQ6;Q15637;Q9ULX6;Q9Y2D9;Q9BQ52;P86452;Q9NQ29;Q9H9D4;Q96NY9;Q9UIS9;P46 939;P51504;Q7Z5L9;P52744;O15014;Q9UPN9;P24928;Q8NAP3;Q05BQ5;Q9UHF7;P67870;Q6PG37;Q8IW 19;O75251;O43189;P62273;P27797;O43318;O75150;Q5T8I9;P02794;Q8IYX0;Q9UKT9;P0CG00;P1147 3;Q9Y6X8;Q9H008;P14324;O75928;Q9H6W3;Q6IV72;P0C025;Q8N587;Q8N895;Q96IR2;O60220;P19474 ;Q9Y6K5;Q01081;Q9UIF9;Q9UKD1;A6NIX2;O95251;O14628;O43257;O60290;P06396;Q9BR84;Q8NB42 ;Q9C035;Q8IYB9;Q9Y3S2;Q13114;Q9NWT6;P53041;Q86YI8;Q3ZCT1;Q8TBK6;Q96BD5;P55197;P78317;P 80294;Q9NRR4;O14639;Q6ZN79;Q9UKV8;O14978;Q8TA86;Q5D1E8;Q14258;Q8NHY2;Q9Y3A3;Q99496;Q9 Y2L8;Q07352;A8MWA4;Q8N9Z0;P02511;Q66K41;Q9BSG1;Q6IQ32;Q15935;Q99766;Q15654;Q03112;P52 743;P62714;Q8N988;A8MUV8;A8MVS1;P17028;P27694;Q9UIF8;P67775;Q9H2U2;Q8WY41;Q9H9Y6;Q9NU P7;Q7Z2W4;P52594;P61513;Q9UK10;Q66K89;P98168;Q8NF99;A8K8V0;Q8IYL2;P17010;Q14134;Q9GZU 7;Q9UNL4;Q02447;O95602;O75792;Q86YG4;Q8WY54;Q86YE8;Q96BR6;P02795;Q5HY98;Q9Y2X9;P15621 ;Q9H9T3;Q49AA0;Q13342;O95394;P98182;P0C7V5;Q13330;O15504;P49711;Q9Y383;Q96LW9;Q96H40 ;Q96T23;Q32MQ0;Q96N20;Q92793;P28702;O14832;O95376;Q8TF47;Q96PQ6;Q6P9G9;Q13127;Q9UBS8;Q 8IW36;P35226;Q96PY6;Q3MJ62;Q9Y2P7;Q99590;Q9UDV6;Q8TF39;O43439;Q05516;Q9NP64;P35637;Q8 N9V7;Q15022;O60711;Q9NRC8;P04731;Q9Y5J7;Q96AY2;Q86XK2;Q9UQL6;P60002;Q6ZN06;Q96GC6;P10 074;Q86UA6;Q9UL40;Q13129;Q09FC8;P56270;Q99502;P35789;O60304;Q96N38;P17022;Q8N448;Q9Y6 K9;Q96W8;Q49A33;Q5TA31;Q9Y473;Q9ULJ6;Q8TB69;Q96LW1;Q03923;P48200;O95125;P84022;Q86V7 1;P21980;P49790;Q96S55;Q9H7S9;O43309;P62875;P49589;Q8N720;Q7L9L4;P37275;P30793;Q96MF7 ;Q8WUI4;Q13360;Q8WYH8;Q8WTZ3;A6NK53;Q2M1K9;O95271;Q86Y01;O75800;O95848;O43823;Q13233 ;Q9UPA5;P04732;Q9UK13;Q15046;Q8TBB1;Q96NG5;Q6IEG0;Q9BU02;P17544;A1A519;Q9UKF6;Q14061;Q 7Z3K3;Q7L590;Q92905;Q9UII5;Q9H1B7;Q2QGD7;Q9H160;Q6ZMY9;P55895;Q9BX82;Q9NYG5;O60260;B4 DX44;Q8N859;P28838;Q9GZX5;Q9NXW9;Q9NX58;Q86V15;Q5FWF6;P49910;Q96N77;Q12873;O75151;P09 467;Q16629;Q96EK4;Q9BSM1;Q8N0Y2;Q8WXI9;O15355;Q63HK3;Q96FX2;Q9ULV3;Q86YF9;Q9NRC4;Q9Y5 J6;Q6P1K8;Q8WXB4;Q8WTV1;Q9ULD9;Q9Y6X2;Q16851;Q9NVV9;Q8IWL3;P63272;Q9UBW7;Q9H0F6;Q1487 2;Q68EA5;Q15776;Q14192;O75437;Q9BYK8;O14802;Q9UBF6;Q9Y462;Q9H0W9;Q02930;P10073;Q5JVG8 ;Q96NU7;P62508;O43829;Q9BTC8;Q8NEP9;P22392;Q96EY1;O96006;Q08AG5;Q96CB8;Q8IYW8;C9JN71 ;Q8NF64;O95201;Q76KX8;Q9Y2Y9;Q13501;Q15181;P09874;Q8N823;P62877;Q8N972;Q96NB3;Q16775;P 35227;O75346;Q9H1K1;O75164;Q9BWG6;Q86UW9;A6NP11;Q4VC44;Q9NRR7;Q8N7K0;A6NKB3;P23297;Q6 P280;Q96EP1;B1APH4;Q86YP4;O95989;Q8TF32;Q9P2R7;Q6S9Z5;P51948;Q86TG7;Q9Y6R6;Q15072;Q5T 200;A2A288;O75152;Q9H6Z9;Q8IWW8;Q6GMV2;Q9UL41;O95551;Q3KP31;O14771;Q9BUG6;P53803;Q8WY Q5;Q9HBE1;P52741;Q9NWK9;Q9UC07;Q86TP1;Q71UM5;Q03938;Q8TD19;P69905;Q9NYJ8;P61927;Q1388 8;P08047}

3544 Pathogen[ P0C206] interacts with 1533 human partners: {Q9UID6;P27695;P49589;Q02386;Q9UBW7;Q8N9K5;O95271;Q5VUA4;Q76L83;Q9NQC7;Q9NUA 8;O43829;Q8N720;Q6IEG0;P06733;O00488;Q9Y3S2;P28698;Q9H1K1;Q6NUN9;Q15072;Q8IW03;Q9Y253 ;Q86VD1;O14964;Q16851;Q9Y468;Q13887;P84022;Q9H857;Q9NWX1;Q3KNS6;Q86W11;Q8NBJ7;Q9Y2X9 ;Q96JL9;A8K8V0;Q86Y01;Q68DK2;P10588;Q9UK12;Q8N371;Q9Y3A3;Q96AX9;P99999;Q9NX58;Q6P9A3;Q 9NZV6;Q49AG3;B1APH4;Q86VZ6;P46939;Q53T94;P68871;Q86V15;Q969W8;Q9P1U0;O14628;Q13501;P0 8048;Q9NS56;P60002;P07438;Q9BZE0;P13640;O95081;Q9P2N5;Q9NWK9;O60291;Q9H5H4;Q9P0U4;Q8I

XW5;O43309;P62875;Q5XG87;O95201;Q86TP1;Q9Y5L4;Q8TC21;P62877;Q9Y3M9;Q8N988;P98168;Q96S  
E7;P0CB33;Q14587;Q6B0K9;O75952;Q96JC4;P51854;Q96Q83;Q9BTP6;Q19AV6;Q96MP5;Q9UKF6;O6048  
1;Q9Y2M0;P28715;Q96BV0;Q9NX46;Q9NQV6;Q32MQ0;P06396;Q63HK3;Q7Z7K0;Q9Y5J6;P0C025;Q7Z3I7  
;Q8TA86;Q96NI8;Q6PCD5;Q9UJN7;Q9UPV7;Q8WU90;Q96N22;A8MXY4;Q96AY2;Q9BUY5;P53701;Q96MM3;  
O60384;P35398;P23193;Q17RS7;P20042;P09917;Q14588;Q9YHCK1;O00167;Q7Z398;P49790;Q03924;Q  
8WV22;Q9BUG6;P17026;Q96IR2;Q9H4P4;Q6IV72;P55265;Q15493;O95453;P55198;P38935;Q5JN23;P0  
6401;Q5VZL5;Q60455;Q92844;Q9GZU2;Q8N6T3;Q5T5D7;O95251;Q9Y6K1;Q8N883;Q96CS4;P27797;Q01  
538;Q9HA92;Q86YG4;Q9ULX3;Q9NYT6;Q9NS18;P36639;Q9Y6Q3;P98182;Q99504;A8MXV4;Q86UW9;Q8NB  
50;Q9UJQ4;Q9HAZ2;Q8N9F8;Q13127;O95780;P13682;Q53H82;P50213;Q9Y6K9;O75251;Q9UPN9;Q8IYN  
0;Q05481;Q9UQ84;Q15911;P46976;Q01081;Q33SY56;Q9NSU2;Q99766;Q0VGE8;P26651;Q9Y4L5;Q9P2G1  
;O00733;Q6PF04;Q8NCN2;Q7Z6J0;Q9HAW0;Q13114;Q9Y242;Q08AG5;Q96KR4;B4DU55;Q9NVW2;O43255;  
Q6NX49;Q9UC06;Q8N8U3;Q9GZU7;P36954;O75123;Q147U1;Q14586;Q96PE6;Q13263;Q9UII5;Q15696;P  
52741;O95602;Q96KS0;A6NGD5;Q8IYW5;O95376;B7Z6K7;O96017;Q9H4I2;P02100;Q8WUU5;P78364;P6  
9892;Q13642;P11161;P04156;Q8IYX0;P17031;Q86VK4;Q96MT3;Q9HCC9;Q8WY54;A2RRD8;Q9NW07;Q9Y  
5T5;Q9Y5R6;Q9GZT9;P10074;Q9UBT6;Q9UK13;O43151;O43422;Q96SL8;P17544;Q96DT7;Q17R31;Q9UG  
U0;P0C7X5;O75925;P09874;Q9UDV7;P22392;P25490;O43313;O75290;P15622;Q8N9Z0;Q9NSD4;Q8NG2  
7;Q96G03;Q8NDL9;Q02446;Q8N8Z8;Q9UNA4;Q9HBE1;Q9UJL9;P79522;P02794;Q9UL41;Q14966;Q96F45  
;P49910;Q9P243;Q86XK2;Q92664;Q6ZSB9;Q86YF9;P51955;Q8N5C8;Q8WYH8;Q96N95;Q8TB69;Q9BT49;  
Q14258;Q49AA0;Q9UGP4;Q9C0B9;Q9H9T3;Q9BV68;Q9NSC2;Q96I27;O14521;Q9UC07;Q9NR11;O75582;Q  
9Y2Y9;Q15697;Q96EP1;Q5CZA5;O75306;P04732;Q5F1R6;Q7Z7K2;O75382;Q9H091;Q3KRA9;Q96IF1;P4  
1182;P17024;Q05516;Q9UPA5;Q6V9R5;Q9Y2J0;Q13615;P52743;Q6NS38;Q6ZNA4;Q9H7R0;Q9BS31;O43  
681;Q9UHK0;Q96K75;Q9NQZ8;Q9NR83;Q7L3S4;Q6NZ36;Q6ZMK1;Q9NXT0;Q8IV48;Q99598;Q96LI5;O948  
22;Q6PII5;P35226;Q9NRG4;Q9C0D7;O75604;P52737;P02008;Q9Y4I5;Q9UKA1;Q496Y0;P49754;O7546  
9;Q9NR56;P59923;Q8WXB4;Q9UK33;Q9Y6K5;Q8IYI8;P09467;O75081;Q9H1K0;Q9P2F9;Q8WXI9;Q8NFW9  
;Q9Y2Q1;Q9UL58;Q9Y2D9;Q9BU19;Q9H7B4;Q53G26;Q6WTR7;Q9H2H0;P21980;P17019;Q8IWB7;Q5VIY5;  
Q6ZRF7;O60870;Q9NPA5;O95600;Q5TFE4;Q05BQ5;Q5T1R4;Q8IYH5;Q8IUQ4;O95394;Q9UKV0;Q8WV38;P  
46100;Q8N8E2;O95630;Q9H5L6;O43670;A6NHJ4;Q8N2W9;Q86XF7;O94892;Q9H4T2;A6NIX2;Q9UPP1;Q9  
Y3Y4;Q86T29;Q9NW08;A2A288;O14832;Q9UM63;Q6ZS27;Q9Y2P0;Q96SK3;Q96MX3;A6NP11;Q3MI56;P28  
838;Q7Z4H3;Q9UL59;Q9UH90;Q9NWF9;Q8N1G0;O75764;Q8NI51;Q9NXW9;Q9Y462;Q96T51;Q9NS39;Q163  
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3545

Pathogen[ P03363] interacts with 1168 human

partners: {A2RRD8;P80294;Q86TJ5;Q49AA0;Q6IE81;O95376;Q9NQX1;Q16587;P22681;Q15654;P4975  
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;P48200;O00743;Q86V15;Q9UKV8;Q6ZN55;Q5VTR2;Q8N488;Q8TA86;Q9NW07;Q66K89;P24928;Q9UL41;O75437;Q9C0F0;Q76KX8;Q9UQL6;Q9UL40;Q9GSC8;O60293;O75164;O15151;Q99496;Q5F1R6;Q9UPN9;O43422;Q9Y6K1;Q8N9Z0;P04732;Q9Y467;Q6NUN9;Q9UK11;Q96MB7;O43318;Q3KQV3;Q9BV68;Q8IXK0;Q96PQ6;Q8N782;Q5TYW1;O14746;Q9Y2A4;Q8IWX8;P24941;Q96GC6;P04156;Q9UM63;Q8IYW5;Q8TBB1;Q9HCK0;Q9NPC7;Q9Y2K1;P09234;Q96EG3;Q6ZMV8;Q6VVB1;P36508;Q6BEB4;Q9Y2H8;P51522;O43309;Q14839;P16415;Q9HCZ1;Q9NSJ1;Q9BX82;Q9UJW7;Q14588;P17028;O75312;Q8NEA6;Q9Y3Y4;Q8I3Z6;Q96N20;Q9Y2X9;Q9NR56;Q68DK2;P59923;Q8IXW5;Q96MM3;Q8IY41;P17041;Q9NWS9;Q9BWF3;Q9Y5R6;A1L020;Q9HCX3;Q8WU90;Q86YE8;Q96BV0;Q9BUG6;Q8WUY3;Q15652;Q6ZNH5;Q9Y4X4;P0CG24;Q8NI51;Q96I27;Q9H2K2;Q14593;P17019;Q7Z7K2;B4DXR9;Q12986;Q9H5H4;Q9UNY5;P27815;O43189;Q96T51;B1APH4;Q9C040;Q93052;O95571;P49711;Q7Z4H3;Q9NTW7;Q9P2N5;Q7L2R6;O75150;Q8TBC5;Q96IF1;Q8IYL2;Q6ZNA4;Q9NZV7;Q8N668;Q9UK10;O00488;Q8NCA9;Q86VZ6;P46100;Q9UNL4;P10588;Q13127;Q8IY57;Q960W9;Q9Y2Y9;Q9C086;P11473;Q53G26;O75792;Q9UJ41;Q8N3Z6;Q86UA6;A6NNF4;Q8NG27;Q96BD5;Q9C0G0;Q6ZN11;O96017;P0C7X5;P17029;P06396;P25791;Q9UM07;Q96BR6;Q9P2Z0;Q6P1L6;Q5BKZ1;A6NK53;Q6IV72;P51786;Q8TF45;P10072;O95405;Q9Y6X2;Q03936;Q9NQ03;Q6NZ36;Q96RE9;Q9UGP4;Q6ZN19;P15336;Q15326;Q2M1K9;Q96T23;P17023;Q86T29;Q9ULM6;Q00403;Q8NAF0;Q96DT7;Q15937;Q8TAT6;Q9ULU4;O75446;P15822;Q07352;P04053;P0C7V5;O43593;A8MUZ8;Q8N6M9;Q2VY69;Q8WXI9;Q96Q83;Q96JM2;O43830;Q9BTC8;O95218;Q96JM3;C9JN71;Q96LW9;P30622;Q8IYB9;Q8TF39;Q9BS31;Q13129;Q9NX46;Q8N972;Q96MA1;Q14872;P28702;Q96FX2;Q9BYN7;Q96N58;Q9H4T2;Q9UDW3;Q9Y4X5;Q14119;Q53T94;Q8N393;Q8N5P1;P52737;Q96IR2;Q9UP68;Q9BSM1;Q8N8Z8;Q8TF20;Q9ULD5;Q9NRG4;Q9H974;Q8WW33;P62877;Q9GZU2;P08235;P51504;P21506;P24278;O75800;Q9HBT7;Q86TA1;Q9IUV36;Q12874;Q8N6T7;Q9P255;Q9BTE6;Q32MQ0;P17039;Q8IXT2;Q6PF04;Q8TAF7;Q96H40;Q5VIY5;Q9UDV6;Q5JNZ3;Q86WZ6;Q7Z2E3;Q96C28;P17032;Q8NB12;Q8IZ20;Q9BXX1;Q9H609;Q13489;Q9UJU3;P51003;Q14527;Q9H0C8;Q9UIF9;P35226;Q9Y5R5;Q8NDF8;A6NDX5;Q9NXT0;Q9UKV0;P06746;P27797;O14709;Q6NX45;Q13472;P04731;P20042;P11532;Q9H4Z2;P51814;Q6PCD5;Q9BSK1;Q9UIF8;Q6H8Q1;Q86UW9;Q15637;P19474;Q9NP64;Q96DE0;Q14134;Q16670;P52736;Q9Y5J7;Q5CZA5;Q8N7M2;Q9UH90;Q9UGR2;Q9Y6Q3;P17022;O60870;Q14966;Q8N5A5;P17036;Q63HK3;Q9Y3M9;O96006;Q9BQA5;Q99504;P52744;Q96SK3;Q2M218;Q9H040;P84022;Q01167;Q96C00;Q9NZU7;P98170;Q6U7Q0;Q96PE6;Q8N895;Q92782;Q9BQ83;Q9UKT4;Q5T619;Q9BRH9;Q8IVC4;O95271;Q9UKY1;Q8TF68;Q6ZN57;P26358;Q96AY2;P49792;Q9H9Z2;Q96N77;Q96PM5;Q9UIF7;Q6ZNG0;Q9NRN7;Q86XN6;Q9C035;Q9Y2G7;Q6ZN08;O95171;Q96IT1;Q92618;Q9BYK8;P55265;Q5T200;Q9NRR4;Q06732;P35398;Q9BQW3;Q9H0M5;O75925;P43243;Q92664;Q8N6P9;P17025;Q7Z3I7;Q9H582;Q9UK13;P55198;Q14592;Q96CX3;P51508;Q8N184;Q6ZSB9;Q9H008;Q8N7K0;P0CB33;Q9BUY5;Q9H7R0;Q9BV57;Q9UKA1;Q14591;Q96LI5;P60510;Q86UQ0;Q14584;Q9BS34;Q00994;Q8N8L2;Q9NP87;Q96SL8;Q9ULV3;Q9Y3Z3;P49790;A8MUV8;Q76L83;Q7Z3K3;O95071;Q7L9L4;O76031;Q8IWL3;O14964;Q6ZMW2;O43345;Q96S55;Q9UBS8;Q96SZ4;Q86XK2;Q9Y692;Q92793;Q86Y25;Q5TAX3;Q9H4P4;B4DX44;P57071;Q9NS23;Q6ZNG1;Q01954;O95848;Q15697;Q9H1B7;Q6ZN79;O95125;Q9H1K1;Q8N823;O75382;Q6ZSS3;Q8NC26;Q9UBQ0;Q9NR48;Q14585;Q14CW9;P52740;Q8IUD6;P51523;O96028;Q6FTF0;Q9BWX5;P23193;Q14587;P56270;Q9NPA5;Q01844;Q96NG5;Q92844;Q71UM5;P07438;Q8WUI4;P49910;Q6AZW8;P17014;Q9UPA5;Q9NX58;Q96GE5;Q9Y2Y4;O75362;Q92670;Q9UL58;Q15072;P10074;Q92804;Q9UBW7;Q9HOF6;P26651;Q8TD23;Q9H0A6;Q9Y6R6;O95714;P63272;Q9UJN7;O00167;P98182;Q6ZS27;Q63HK5;Q5TA31;Q5H Y98;Q7Z6J0;A8K8V0;Q9UQR1;Q2QGD7;Q8IYN0;Q8TUB9;Q96JL9;O00625;P53804;Q9NHT6;O95551;Q13114;Q8IZQ1;P17020;Q8WWW0;Q3MIS6;Q9Y483;Q9BR84;Q9HCM9;O75398;Q01081;Q8TF47;Q5VZF2;A6NP11;Q3SY52;A6NIX2;Q96T88;O43361;Q96CA5;Q9H7X3;Q9BSG1;Q09FC8;Q9UK12;Q15973;Q9BYX4;Q86XF7;Q96MN9;Q6IQ32;P17017;Q96K58;Q9BT49;Q9H116;Q9BRX2;O14618;O60304;Q9Y5Y2;Q8TAU3;Q8IWT3;Q9Y4L5;Q5D1E8;Q5H9K5;Q15428;Q13398;Q9UKT9;Q53GI3;Q13642;P04733;Q8WV22;Q86UD4;Q12873;B2RXP5;Q7L590;O43900;Q9HAJ7;Q147U1;Q9NR11;O60930;P58317;P67870;Q9UJW3;Q6AW86;Q8IYX0;Q5VZB9;Q96IU2;Q9ULJ6;P47974;Q9NTG7;Q6P280;Q8NDP4;Q96GX9;Q8IUV8;Q7L945;Q9NVW2;Q5EBM4;Q4V C44;O43918;Q9UNA4;Q8TC21;A8MXY4;Q9H8W4;P55895;Q8NB50;Q52M93;P02489;Q8N9K5;P55197;Q66K41;Q96N95;P09874;Q13330;Q8WXB4;P52741;Q9GZU7;Q8WTR7;Q9HCGL;Q9UKF6;Q8NHY2;Q9Y3A3;Q9Y2Q1;Q8WWW38;Q06587;Q99728;Q499Z4;O15504;Q9BY31;O94822;Q96NJ3;Q68DY9;P52743;Q8TAW3;Q8TEC5;P08047;P52594;Q8WTTZ3;Q9NQ29;Q5TEC3;O15297;A8MVS1;Q9UKJ3;Q9H8S9;Q9HC78;Q2M3X9;P15622;Q86YF9;Q8N5C8;O75152;O60290;Q93083;Q15560;Q8IWS0;Q9BU02;Q9BUZ4;Q9BTP6;O75626;P0C7X2;P52742;Q6ZRF7;Q9H9D4;Q6P3V2;Q2M3W8;Q5MCW4;Q15935;Q96PU4;Q96NY9;A6NFI3;O43298;Q9BWM5;O43829;Q8N1W2;O43255;Q8TE76;O60284;Q8N8J6;Q8N587;Q9NQV6;Q9UL36;P53803;P17544;Q9P2R6;Q9UBZ9;Q9NWK9;Q8IYI8;Q96EY1;P36639;P17040;O94892;Q0VGE8;Q9HCE3;Q8N3F8;Q96BR9;Q8N2W9;Q05481;Q96CB8;P0CJ78;O15060;Q96PM9;Q7Z5L9;Q68CP9;O95625;Q9N9S1;Q9UBC3;Q9P2F9;Q96K75;Q9NR12;Q9H9T3;Q5FWF6;Q8NF64;Q99590;Q9UIH9;Q9NYW8;O95251;P51815;Q8WV99;Q9UID6;Q96CS4;Q3MJ62;Q05516;A6NJL1;O75688;Q3ZCX4;Q8TBZ5;A8MT65;Q13106;Q9GZX5;Q8TF50;P17038;P0CJ79;Q6P9G9;Q96NI8;Q96NB3;Q8TF32;Q15181;Q9P0T4;P46976;Q9NRC8;Q8WYQ5;P60002;Q9H4I2;Q969S2;Q96MF7;Q32M78;P67775;P10589;Q969S3;Q96NL3;Q9Y473;P13056;Q8WYH8;Q9NTM9;Q5VWG9;Q8NEM1;Q3KNW1;Q13233;Q15696;P52746;Q9ULX6;Q05215;Q9BYE7;Q86TP1;Q9UII5;Q9BZE0;Q70IA6;Q92993;P02794;P38935;Q9P2Y4;Q08ER8;Q86TG7;Q4V348;Q9UJL9;Q49A33;P23297;Q9NV72;Q96N38;Q15942;Q06730;Q9UIE0;Q9H8G1;O60711;Q92905;Q02446;Q9UJW8;O43257;Q9BWG6;O14628;Q8NBF1;A6NN14;O14686;P58557;Q68DY1;O14639;Q49AG3;Q86TJ2;Q7Z3V5;Q9H7Q3;O95789;Q8TBZ8;Q15650;P10073;Q8WY54;Q8NF99;O75290;Q6IEG0;Q9NUK0;O14595;Q8IU60;O94776;Q9NR83;O15535;Q6ZT77;A8MWA4;Q96AX9;O75467;Q6PJT7;P52747;O75928;Q13118;Q96SQ5;P17035;Q8WUJ5;Q8N0Y2;Q8N4W9;A6NM28;Q92785;Q96633;Q9UIS9;Q6PK81;Q86VM9;Q9UFB7;Q9HAZ2;Q96H86;Q8TA94;Q5JVG8;Q03938;Q16600;Q14192;P11161;Q9Y2P7;O00482;P52756;Q9H7R5}

- 3546 [Cluster 323]GO:0003682+F molecular\_function [name] chromatin binding [def]  
 "Interacting selectively and non-covalently with chromatin, the network of fibers of DNA, protein, and sometimes RNA, that make up the chromosomes of the eukaryotic nucleus during interphase." [GOC]
- 3547 Pathogen[ Q2Q067] interacts with 211 human partners:{Q86W56;Q13562;P49454;Q29900;O43463;Q9UPP1;Q33E94;O00213;P18754;Q99583;Q12837;O14744;Q9BRR0;P10243;Q92922;P55895;Q7Z2Z1;Q9HBE1;Q63HK5;O00470;O00267;Q9NPF5;P27694;Q9H2P0;P36402;P46937;Q15910;Q9Y3T9;Q13485;P62826;Q99741;Q9UBB5;Q15596;P41182;Q15554;O96019;Q13111;Q15059;P08151;O75478;O75081;Q5SXM2;P54274;Q9Y6K1;O00257;Q7Z7J5;Q7Z2E3;Q

04206;P11387;Q9UHC1;P49450;P39880;Q8N2Z9;O94983;A6H8Y1;O94776;O15379;P36956;O60535;P05114;Q92800;P15976;O60356;Q96ST3;O15350;P54198;Q02447;Q04727;P51610;Q8TBE0;P17040;Q9H320;O75182;Q15022;Q8N5F7;O60563;P11831;P11388;P35227;Q86TJ2;P28069;Q15424;O15405;Q9UKL0;Q96IF1;Q13112;Q00059;Q99966;P38159;Q15004;Q99504;P23769;Q63HK3;Q9BTC8;P56693;Q96LB3;Q9BTP7;Q925791;Q96BD5;Q9Y2T7;P12755;P84022;Q969G3;Q99856;P50221;Q8IYH5;Q13330;Q9NPD8;Q96RY5;Q9P2R6;P25440;Q9UBK9;Q92769;O00255;Q9BQ90;Q8IZ40;Q7Z3K6;Q13127;O43541;P28324;P11161;O15265;O43918;A6NCL1;Q8WVJ9;Q92830;O15164;P35226;Q9H160;O75530;O75533;Q8NA31;P82970;P46100;Q03468;O75030;Q9UPW6;Q8WUI4;Q15796;O75475;Q8N344;Q99496;Q99543;P37198;Q86VE0;Q92499;Q99687;O76064;Q15583;P54098;O75360;Q07687;Q8N371;Q12968;Q6PBG2;O60248;P15336;P12757;Q9H3P2;Q9P2K3;O43186;Q86U86;Q14686;O95983;P10244;Q9UMQ3;Q9Y618;Q05BW5;Q04724;Q86YI8;Q9Y294;Q9P1Z2;Q8TAQ2;Q92793;Q86U70;Q8WYK2;Q9NSC2;Q14683;Q01826;Q9BQA5;Q9HBD4;P45973;P28370;Q04837;P15923;P10242;O75376;Q9Y468;Q15651;Q9Y222;Q3T8J9;Q9H5I1;Q9H7E2;P40425;P83916;Q9BTE3;Q14781;Q8IYD8;Q99459;A6NKF2;Q96FF9;O94763;Q06587;Q15361;Q9BTA9;P07199;Q96DN6;Q6P0N0;Q8N108;O96028;Q9NRC8}

3548 Pathogen[ POC214] interacts with 210 human partners: {O00470;P54198;O00213;Q05BW5;Q8N371;Q9Y3T9;P35226;A6NCL1;A6H8Y1;Q15059;Q9H5I1;P35227;Q04727;Q6P0N0;Q15022;P51610;Q13330;Q63HK3;Q15651;P38159;P12757;P15336;P54098;Q15361;O43186;Q15554;Q92900;O00267;Q3T8J9;Q13112;Q9HBE1;O75478;O15350;Q99856;P83916;O75530;Q8N5F7;Q92560;Q9HBD4;Q13111;P23769;Q92793;P56693;P46937;P84022;P34897;Q9P2R6;Q9Y6K1;P11831;Q96BD5;Q04206;Q63HK5;Q7L2E3;O60535;Q5SXM2;Q86TJ2;Q86W56;Q15910;O75030;Q96DN6;Q04724;P07199;Q9Y468;Q14686;O43463;Q8TBE0;Q8TAQ2;Q96FF9;Q8NA31;P10244;Q8N344;P49450;Q9BTE3;Q8N2Z9;Q00059;Q92922;Q9BRR0;Q99966;P10243;Q12968;Q86VE0;Q7Z7J5;Q969G3;Q9Y2T7;Q8IYH5;Q12837;P55895;Q07687;P37198;P15923;P25791;P28370;O94776;Q06587;O95983;Q99459;Q86U70;P46100;Q9UHC1;Q9UKL0;P25440;Q7Z2E3;Q8IZ40;Q13485;Q92769;Q8N108;P28324;O00257;O60356;Q9H160;O75376;O60264;Q15796;Q9NSC2;Q99687;P41182;Q99504;P11388;O43541;O15379;O75533;Q15004;O75475;P82970;P12755;Q13127;P28069;Q86YI8;Q9BTC8;Q15424;O75360;P17040;P11387;O43918;Q99496;P36402;P10242;P62826;P39880;O60563;Q9Y294;Q92499;Q9UMQ3;Q8WVJ9;Q14781;Q01826;Q02447;Q14683;O15164;Q86U86;Q9H7E2;P40425;Q6PBG2;Q92830;Q96ST3;P11161;Q8IXM2;P45973;O15265;P50221;P27694;Q99543;Q9UPW6;P08151;Q9BTA9;Q9H3P2;Q9H320;Q9BQA5;Q9P1Z2;Q9NRC8;Q9UBB5;Q96LB3;Q15596;Q8WUI4;Q9P2K3;O94763;P05114;Q92800;A6NKF2;P49454;Q04837;Q8IYW5;Q9UBK9;P18754;Q9Y618;O76064;Q9NPD8;Q99583;Q8IYD8;Q96RY5;O75081;O60248;Q03468;O96019;Q9UPP1;Q7Z2Z1;Q7Z3K6;O00255;O15405;Q33E94;P54274;Q9NPF5;Q9BQ90;Q99741;Q9BTP7;Q9H2P0;O75182;O96028;O94983;Q9Y222}

3549 Pathogen[ P03346] interacts with 236 human partners: {P10244;Q14781;O15265;Q8N2Z9;Q96ST3;O00213;P46937;P35453;Q9P267;Q9NRZ9;Q9Y6K1;Q86U70;Q15788;P28324;Q9HBD4;P45973;Q92560;O76064;Q99687;Q9BRR0;Q99966;Q7Z2Z1;P50221;Q8IXM2;P46100;Q9UPW6;Q9UKL0;O60248;O43918;Q96FF9;Q96BA8;Q99543;P12757;P36402;P15336;Q92800;P54098;P36956;Q96DN6;Q9H2P0;P07148;O75530;P11831;P11388;Q15554;Q9H7E2;O15379;P27694;P35226;Q00059;Q12772;O60563;O94763;Q12837;P54274;Q15004;P23769;Q15583;O95983;P51610;P55895;Q9NSC2;Q8TD26;P15923;Q15796;P56693;O75475;O14744;Q9H3P2;Q8IYH5;P05114;Q99856;Q7Z7J5;P35227;Q4206;Q8IZ40;Q7L2E3;O94776;Q6PBG2;Q92886;P56177;Q96IF1;Q63HK5;P18754;O43186;O00257;Q86U86;Q6P0N0;P25440;O15350;Q9UBX0;O75030;P37198;Q8N5F7;O43463;Q15059;O75182;Q9BTP7;P62826;Q9BQ90;P78426;Q9Y222;Q9UHC1;Q3T8J9;P28358;Q92830;Q92499;P84022;P25791;Q12968;P17542;O96019;Q9HCS4;P10242;O43541;P15976;O95096;O75478;Q15596;Q03468;O00255;Q86VE0;Q15361;Q33E94;Q15022;Q9P2R6;Q92769;Q14683;Q8NA31;O60264;Q9P1Z2;Q04724;P40425;O00470;Q8WVJ9;Q13330;A6NCL1;Q13111;O75533;Q15475;P82970;Q9Y3T9;Q12778;P10243;A6NKF2;Q8WUI4;Q9UPP1;Q63HK3;O75376;O94983;Q96LB3;Q9NPD8;Q99496;Q9Y468;O00267;Q8IYW5;Q15910;Q9HBE1;P78364;Q99459;P41182;Q96RY5;Q96KC8;Q8N344;Q8N371;Q96BD5;Q969G3;Q9Y2T7;P1161;Q8N108;P49450;Q92922;Q86W56;Q04727;P28069;Q05BW5;P83916;Q8IYD8;P28370;Q7Z2E3;O60356;O60535;Q86YI8;Q13485;Q9P2D1;P07199;O75360;Q8TBE0;P17040;Q15424;Q7Z3K6;Q99583;Q92793;P39880;Q15651;P38159;Q9H5I1;Q13112;Q5SXM2;Q92900;Q04837;Q9Y618;Q13562;Q99504;Q9BTC8;Q99741;Q9H320;Q8TAQ2;Q9UBK9;Q9Y294;Q13285;Q06587;Q9H160;Q02447;Q9UBB5;Q9UMQ3;Q9NRC8;O15164;O75081;Q9BTE3;Q01826;P54198;O15405;Q8WYK2;A6H8Y1;P49454;Q13127;P11387;Q86TJ2;O96028;Q9BTA9;Q9BQA5;Q9P2K3;P08151;Q14686;Q9NPF5}

3550 Pathogen[ Q85601] interacts with 220 human partners: {Q9P2R6;P10243;Q9H5I1;O75182;Q99543;P49454;O00213;Q9NRC8;Q63HK3;P54198;P08151;P11831;Q9Y2T7;Q9H7E2;O75360;P17040;P83916;Q13127;Q96LB3;Q9BTE3;Q7Z2Z1;Q9BTP7;O60563;Q99687;Q8N371;Q9UPW6;Q15004;P15976;Q8IYD8;O94776;O15265;Q04724;Q96BD5;Q9H320;Q8TBE0;Q86U70;Q9P2D1;Q15554;O43541;Q9Y294;Q8N5F7;Q13112;Q92560;Q15424;Q99966;O75030;Q33E94;P28069;Q9Y468;P23769;P62826;Q9H3P2;P12757;Q8IYH5;Q9BTA9;Q99504;Q7L2E3;Q12772;Q9Y618;Q15583;P10242;Q00059;O96019;P07199;O15164;Q9NPD8;Q92499;Q15596;O95983;O14744;O15405;O43463;Q15651;Q15059;P27694;P51610;P12755;Q13562;Q9P2K3;Q15022;Q05BW5;P11387;Q9P267;Q14686;Q5SXM2;Q92830;Q03468;P25791;Q12968;Q8NA31;Q6PBG2;Q8N344;Q9UMQ3;Q9UBX0;P78364;Q969G3;O76064;P54098;Q7Z3K6;Q9BRR0;P36956;Q9BQ90;Q92769;Q14683;Q04206;P45973;O60535;Q8IXM2;Q04727;P40425;O60248;Q13330;Q9Y222;O75530;Q9Y618;Q99459;Q9H2P0;P11388;P49450;P82970;O00255;A6H8Y1;Q01826;P10244;A6NKF2;O75376;O00470;Q86YI8;Q9UPP1;Q8N108;Q8N2Z9;O94983;P15923;Q99496;P36402;O00267;Q8IYW5;Q02447;P56693;Q9BTC8;Q96RY5;Q99583;Q9HBD4;Q96IF1;Q9BQA5;P84022;Q9Y3T9;Q86VE0;Q96DN6;O15379;P18754;Q15910;P46937;Q9UHC1;P25440;P28370;Q7Z2E3;O60356;P35226;O94763;O15350;P50221;Q8TD26;Q86U86;P38159;Q13111;Q9NSC2;P15336;P41182;Q8IZ40;Q92793;P39880;P05114;Q3T8J9;Q8WUI4;Q9P1Z2;Q15361;Q9HCS4;O60264;Q92800;O75475;O00257;Q63HK5;Q92900;Q04837;Q9H160;Q9UBK9;Q92922;Q99741;Q12837;Q8TAQ2;Q6P0N0;Q9UKL0;Q13485;Q96FF9;Q06587;Q9UBB5;O75478;P11161;P46100;P55895;P28324;Q86W56;O43918;Q07687;Q8WYK2;A6NCL1;Q99856;P54274;Q8WVJ9;Q15796;Q86TJ2;O96028;O75081;Q9HBE1;P35227;Q9NPF5;Q14781;Q96ST3}

3551 Pathogen[ P14079] interacts with 200 human partners: {Q3T8J9;P07199;Q5SXM2;O15379;Q9UPW6;Q6P0N0;Q04837;P54274;Q9H320;P11388;Q9945

9;P08151;O15164;Q8WYK2;P10243;P05114;Q9BQ90;P12755;Q15596;Q9Y6K1;A6NCL1;Q92830;Q8IYD8;Q8N108;P10244;O75533;Q96ST3;Q92793;Q9UBB5;P28370;Q96FF9;Q7L2E3;Q9Y468;Q9BTA9;Q63HK3;P39880;Q15583;Q8WUI4;Q9NPD8;O15405;O75475;Q86U70;Q7Z3K6;Q13330;Q92922;Q86U86;Q01826;Q9H3P2;Q8WVJ9;Q99966;P54198;Q9UHC1;Q99856;Q92800;Q02447;O00213;P15976;Q15059;Q8N344;Q13112;Q8TAQ2;Q13111;Q12968;P34897;A6H8Y1;Q9H2P0;P46937;A6NKF2;Q9BTE3;Q9BQA5;Q8NA31;P15923;Q12837;P51610;O15350;Q6PJJ2;P36402;Q9H5I1;Q96RY5;P46100;Q9BRR0;O94763;P28069;Q12772;Q99687;P45973;Q99741;P82973;Q9Y2T7;Q9P2D1;Q8TD26;Q15651;P78364;Q99583;Q99543;Q00059;Q9Y3T9;O14744;P41182;Q99496;O00257;Q14781;O75530;Q96BD5;P11161;Q9NPF5;Q92769;Q96IF1;Q9UPP1;O60248;Q92560;P25791;Q8N2Z9;Q9P2R6;P49450;P15336;Q15424;Q9UBK9;O75360;Q15788;P37198;O95983;Q9P2K3;Q9UKL0;Q7Z7J5;O60264;Q9UMQ3;Q9BTC8;Q86YI8;P56693;O43541;P35226;Q86VE0;Q15554;O75081;Q96DN6;Q07687;Q04724;P35227;Q9H7E2;O43918;P25440;Q8IXM2;P27694;O75182;O75376;Q92900;Q63HK5;O75478;Q86W56;Q92499;O15265;Q8N371;Q99504;Q03468;P49454;Q9BTP7;P12757;Q15910;O60356;P54098;P62826;P17040;Q15004;P52701;P83916;Q9Y294;Q96LB3;Q8IZ40;P10242;Q15361;Q13127;O75030;Q9NRC8;O00470;Q14683;O00267;O94776;Q9P1Z2;Q7Z2Z1;Q7Z2E3;P36956;O00255;Q9P267;P23769;Q9HBE1;Q14686;Q15022;P18754;Q04727;Q86TJ2;P50221;Q9NSC2;Q9H160;Q9Y222;P38159;Q06587;Q8N5F7;O94983}

3552 Pathogen[ P03383] interacts with 188 human partners: {P35227;Q9Y618;Q7Z7J5;Q14683;Q86U86;Q7Z2E3;P10244;Q99504;O75182;O00470;O00213;P49454;Q63HK3;Q8N344;P11831;Q8N2Z9;Q13485;Q9HBD4;Q9UPW6;O96019;Q9H3P2;Q9BTC8;O75478;P28069;Q9HBE1;Q9BTA9;P25440;O60248;O94776;Q3T8J9;Q15596;O75376;Q8WVJ9;Q07687;Q86U70;Q04727;Q15554;Q9H7E2;Q9P2R6;Q9BRR0;P27694;Q7Z3K6;Q96BD5;O75360;O43463;Q8N5F7;Q9UMQ3;Q9UHC1;Q15004;Q01826;O00257;Q9BTE3;Q14686;P28370;P23769;Q00059;O75030;Q06587;O94983;P15923;Q8NA31;Q6PJJ2;P11387;Q9P2K3;O15405;Q99459;Q86VE0;Q15651;Q13330;Q04724;O00267;Q15022;O14744;Q9UBB5;Q9Y2T7;P38159;O60535;P62826;P83916;Q9Y3T9;Q33E94;P46100;P51610;O94763;P45973;P84022;Q9H160;O75081;P25791;Q15361;O60563;Q7Z2Z1;Q13111;Q969G3;Q86W56;Q02447;P54098;Q9Y6K1;P28324;O15265;Q03468;Q9NPF5;Q9BQA5;P17040;Q99687;Q9Y294;P18754;Q92769;Q92830;Q9NSC2;A6NKF2;O43541;Q12837;Q12968;Q8IZ40;O15379;O15350;P55895;Q96DN6;P82970;O00255;O75475;Q86YI8;Q96LB3;Q99496;P36402;Q8TAQ2;Q99543;O43918;Q99583;Q9UKL0;Q96FF9;P10242;Q11161;O95983;P05114;O43186;P39880;Q8N108;A6H8Y1;Q15796;Q15059;Q15910;Q04206;Q9Y222;Q96RY5;P12757;Q9NPD8;Q9H320;Q96ST3;P07199;Q8TBE0;P50221;Q8N371;Q15424;Q6P0N0;Q92922;P15336;Q92499;Q99856;P37198;Q8WUI4;P10243;Q5SXM2;Q04837;Q9UBK9;P56693;P46937;P54198;Q92900;Q9H5I1;Q9UPP1;Q13112;Q9BQ90;Q9BTP7;Q9P1Z2;P40425;Q92793;P54274;P35226;Q92800;Q9NRC8;Q9Y468;Q99741;Q13127;O75530;Q14781;O60356}

3553 Pathogen[ P03410] interacts with 211 human partners: {P84022;Q92830;Q04206;P28069;Q9UPP1;P11831;P36956;P51610;O94763;O00470;Q8WYK2;Q99496;Q05BW5;P54198;P17040;Q9H3P2;Q8IYH5;Q8WVJ9;O60535;Q8IYD8;P12755;Q15554;P82970;Q9P2R6;Q92900;Q9UMQ3;Q02447;O00267;Q12968;Q04837;Q86U86;Q8N344;O96019;P54274;P25791;Q9BQA5;Q14686;P36402;P50221;Q6PJJ2;P10242;Q9NPF5;O15405;O75030;P28324;Q9BTE3;Q9BTC8;Q00059;O75182;O43918;Q04724;Q9UBB5;Q86TJ2;Q96DN6;O00213;P55895;Q99687;P45973;P10243;Q9Y468;Q86VE0;A6H8Y1;Q15651;Q15004;Q9Y3T9;Q9UBK9;O75376;Q9BTP7;Q15059;Q03468;P15923;Q9UPW6;P35227;Q6P0N0;Q96ST3;Q15424;Q8WUI4;P49454;Q9BRR0;Q7Z2E3;Q96IF1;Q9P1Z2;Q92800;O60563;Q13127;Q15583;Q7Z7J5;Q07687;Q92793;P10244;P52701;Q969G3;Q8IXM2;Q99459;Q92769;P62826;Q9Y294;Q9P2D1;Q92499;Q12772;Q13330;O15379;Q13111;Q9H5I1;Q92922;Q01826;Q13112;Q86U70;Q9H160;O95983;P11387;Q14683;Q13485;O60356;Q99583;Q7L2E3;Q04727;O75533;Q8TBE0;P56693;P12757;Q9H7E2;P46937;P46100;Q15910;P41182;Q99504;Q7Z2Z1;O43541;P39880;Q3T8J9;Q86W56;Q9Y222;P11388;Q15596;Q8N108;P49450;P23769;Q9NPD8;Q9BTA9;O75081;O94776;Q9HCS4;Q8TAQ2;P83916;O15350;P07199;Q06587;P27694;O60248;O15265;Q99856;Q8IZ40;Q9P267;Q96FF9;Q63HK3;O75475;O75478;O43463;Q96RY5;O14744;Q63HK5;P18754;Q9NRC8;O00257;Q8TD26;Q96BD5;O75360;Q9UKL0;Q14781;Q9Y2T7;Q15361;Q9Y618;A6NKF2;O60264;Q9H320;Q12837;Q9NSC2;Q96LB3;O94983;Q8N371;Q99543;Q9Y6K1;P35226;Q9HBD4;Q33E94;O00255;Q96ST3;P38159;Q15796;Q5SXM2;P15336;P11161;P54098;Q9P2K3;P15976;P05114;P34897;Q9BQ90;A6NCL1;Q15022;Q8NA31;Q9UHC1;P28370;Q9HBE1;Q8N2Z9;O75530;Q99741;Q99966;Q86YI8;P25440}

3554 Pathogen[ P14075] interacts with 187 human partners: {Q04727;P28069;Q00059;Q14781;P11387;Q15059;Q7Z2E3;Q96ST3;Q9NSC2;O00213;Q3T8J9;Q86U70;P54098;Q9Y6K1;Q92900;Q99504;Q7Z2Z1;Q04206;O15265;Q9HBD4;Q99687;O75030;Q14683;O60248;P25440;Q8N371;P40425;Q9BQA5;O75475;P11831;Q15554;O00470;O43541;P07199;Q8N5F7;Q14686;O60563;Q9P2R6;P23769;Q9UKL0;Q9UPP1;Q9Y468;P38159;P51610;Q33E94;P11161;Q12837;O43918;O43186;Q86VE0;Q92922;O94776;P10244;Q15910;Q9BTP7;Q92800;Q99543;Q5SXM2;P45973;P56693;P15336;Q13111;Q9UBB5;Q9BRR0;P10242;O94983;Q15796;P15923;Q7Z3K6;O75182;Q99856;P54198;O94763;Q8NA31;P39880;Q8WVJ9;A6H8Y1;Q96FF9;Q9Y618;O75081;Q07687;P17040;O75376;Q01826;Q99459;Q8N2Z9;P12757;Q9NPD8;Q03468;O00257;Q9BTE3;Q13485;O00255;Q92499;Q9NPF5;O96019;P46100;P54274;P25791;Q06587;Q9H5I1;O75478;P28324;Q8N108;Q8N344;Q9UPW6;O95983;O14744;Q96LB3;P50221;Q9Y2T7;Q9UHC1;O15350;Q9UBK9;Q92769;Q86U86;Q96RY5;Q15424;Q9H320;Q9BTA9;P37198;O15405;P62826;Q8TBE0;P82970;Q8TAQ2;Q9P1Z2;Q6PJJ2;Q86YI8;Q96BD5;O75360;Q9UMQ3;A6NKF2;O60356;P28370;Q99496;P36402;P83916;P27694;O15379;Q02447;Q9Y222;Q9H7E2;Q9Y3T9;Q13330;Q92793;O43463;P18754;P46937;Q13127;P35226;Q9Y294;Q15022;Q9NRC8;Q7Z7J5;Q04724;Q99741;Q15361;Q86W56;Q9H3P2;P84022;Q96DN6;Q99583;Q8WUI4;Q13112;O00267;Q04837;Q9H160;P55895;P49454;Q92830;Q6P0N0;Q63HK3;Q12968;Q15004;Q9BTC8;Q9P2K3;Q8IZ40;Q15651;P35227;Q15596;O60535;O75300;Q9BQ90;P10243;Q9HBE1;P05114}

3555 Pathogen[ P0C206] interacts with 227 human partners: {Q13112;Q6PJJ2;P46937;Q9Y468;P84022;Q3T8J9;Q07687;Q8N371;O43541;Q92769;Q9BTE3;Q9NPD8;O75530;Q63HK3;Q96RY5;P45973;Q92830;Q96ST3;Q8NA31;Q9Y6K1;Q7Z3K6;Q9NPF5;Q8TD26;Q7Z7J5;P40425;Q99504;Q13127;Q15361;Q8IYW5;P78364;P11161;Q9UBB5;P05114;Q9BTP7;O75030;Q9HBE1;P18754;Q9NSC2;P52701;O14744;A6NCL1;Q9H7E2;Q96IF1;P41182;Q15554;Q99583;O99583;O00470;P35226;Q13111;Q9UKL0;A6H8Y1;O75081;O75533;Q8IYD8;O00255;Q9UMQ3;Q9P2D1;Q8IYH5;P46100;O43463;Q9UPP1;P50221;P54198;Q8WYK2;P10242;Q03468;O15265;P15336;Q9H320;Q04727;Q92



800;P54098;Q9UHC1;Q92922;Q9P2K3;P34897;Q9P267;O94776;P36956;Q9HCS4;O15164;P62826;Q86VE0;Q9P1Z2;Q12968;P56693;P49454;Q13330;P15976;Q15910;Q86U86;Q15796;Q99741;Q8TAQ2;Q9BQA5;Q8WVJ9;Q9H160;Q14781;O15405;Q9P2R6;P12755;O75360;O75475;Q92793;Q63HK5;Q96FF9;O60356;O60248;O43918;Q12837;Q5SXM2;P54274;O00213;Q8IZ40;Q96019;Q15651;Q86TJ2;P82970;Q86W56;P10244;P34209;A6NKF2;P83916;P49450;Q8N344;P12757;Q05BW5;O15379;P51610;Q14683;Q8WUI4;Q99543;Q04206;Q06587;Q9UPW6;O60535;P15923;Q14686;O96028;Q02447;P28324;P55895;Q9Y222;Q9H5I1;O75376;O00267;Q15424;O75478;Q9NRC8;Q6P0N0;Q13485;Q9H3P2;Q9BTA9;P25791;P25440;Q15022;Q8TBE0;P28370;Q8N5F7;Q04724;Q99459;Q33E94;Q13562;P23769;Q8IXM2;P11831;Q86YI8;Q99966;Q9Y294;Q9BQ90;Q9BRR0;P07199;Q92900;Q04837;Q15596;Q15059;O15350;P10243;Q01826;Q7Z2Z1;Q99687;Q9NRZ9;P17040;Q969G3;Q9HBD4;P27694;Q86U70;P11388;Q8N2Z9;Q9UBK9;P39880;P11387;Q9H2P0;O00257;P28069;P08151;Q00059;O76064;Q9UBX0;Q92499;O60563;Q9Y2T7;O94983;Q15004;Q15788;Q7Z2E3;Q9Y3T9;P36402;Q7L2E3;Q9Y618;Q92560;Q96DN6;Q12772;Q99856;Q99496;Q8N108;O75182;O94763;Q9UIG0;Q96BD5;P56177;O60264;Q15583;Q9BTC8;P35227}

3556 Pathogen[ P03363] interacts with 206 human partners:{Q92886;Q9NPF5;Q13112;Q86VE0;Q8IXM2;Q9H160;Q86U70;O14744;A6NKF2;P35453;O75081;P49454;Q6P0N0;P27694;P54198;O75360;Q04206;O60356;P83916;Q9Y468;P35227;O60563;Q92900;O60535;Q15554;Q14781;P56177;P36402;Q9BRR0;Q99543;P08151;Q9H5I1;Q9BTE3;P11387;Q7Z2Z1;Q9BTP7;Q02447;Q15022;P12757;O00213;Q96RY5;P45973;Q13111;Q8TAQ2;O75533;Q9H2P0;O15379;Q9UHC1;Q99856;P82970;Q9H7E2;Q01826;Q8IYH5;O75376;Q6PJG2;Q15910;Q9Y294;Q8N2Z9;O94983;O75475;Q99496;Q9Y6K1;O75530;O00267;Q8IYW5;Q7Z3K6;Q04724;Q15596;Q9HCS4;Q9UBK9;Q14686;A6H8Y1;Q04727;Q8WYK2;P54098;Q96IF1;P07199;P46100;P50221;Q13127;P40425;Q96BD5;O60264;P25791;Q9H320;P15923;P15336;Q9BQ90;Q92560;Q15424;Q9BTC8;P11831;P46937;P56693;P28069;O96019;P28358;P38159;O75030;Q8N5F7;P49450;Q92830;Q7Z2E3;Q9P1Z2;P54274;Q9H3P2;Q3T8J9;P35226;Q99741;Q969G3;O43186;O94763;Q96ST3;Q9HBD4;O43541;Q63HK3;Q15004;Q8IYD8;Q9BQA5;Q99504;Q8IZ40;Q15796;O95983;Q8N108;P84022;A6NCL1;O15265;P10244;Q9Y618;Q92499;Q86U86;O00470;Q15583;Q00059;Q33E94;Q9Y3T9;Q92793;P05114;Q15651;Q15361;O96028;Q9P2K3;P10242;Q8WUI4;Q13485;Q12968;Q9NPD8;Q03468;Q63HK5;Q04837;Q99687;Q8TD26;O43463;P25440;Q9P267;Q86W56;O15405;Q5SXM2;P28370;Q15059;Q9UKL0;O43918;Q96DN6;Q7L2E3;P55895;Q13330;Q06587;Q96FF9;O75478;O60248;Q9UMQ3;Q7Z7J5;P37198;P18754;Q92922;Q9P2R6;P17040;P62826;Q92800;P39880;Q07687;Q96LB3;Q99459;Q12837;Q9UPW6;O00257;Q9Y2T7;Q9NRC8;Q9BTA9;Q8TBE0;Q99583;Q14683;Q8WVJ9;O75182;P10243;Q86TJ2;Q9Y222;P51610;Q8NA31;O94776;P28324;Q8N344;Q05BW5;Q9UBB5;Q9UBX0;P11161}

3557 [Cluster 324]GO:0001046+F molecular\_function [name] core promoter sequence-specific DNA binding [def] "Interacting selectively and non-covalently with a sequence of DNA that is part of a core promoter region composed of the transcription start site and binding sites for the basal transcription machinery. The transcribed region might be described as a gene, cistron, or operon." [GOC

3558 Pathogen[ Q2Q067] interacts with 3 human partners:{O00570;Q32MQ0;Q13127}

3559 Pathogen[ P0C214] interacts with 3 human partners:{Q13127;O00570;Q32MQ0}

3560 Pathogen[ P03346] interacts with 4 human partners:{Q06945;Q32MQ0;O00570;Q13127}

3561 Pathogen[ Q85601] interacts with 3 human partners:{Q13127;Q32MQ0;O00570}

3562 Pathogen[ P14079] interacts with 3 human partners:{Q32MQ0;O00570;Q13127}

3563 Pathogen[ P03383] interacts with 3 human partners:{Q32MQ0;O00570;Q13127}

3564 Pathogen[ P03410] interacts with 3 human partners:{Q13127;O00570;Q32MQ0}

3565 Pathogen[ P14075] interacts with 3 human partners:{O00570;Q32MQ0;Q13127}

3566 Pathogen[ P0C206] interacts with 3 human partners:{Q32MQ0;Q13127;O00570}

3567 Pathogen[ P03363] interacts with 3 human partners:{Q13127;Q32MQ0;O00570}

3568 [Cluster 325]GO:0050682+F molecular\_function [name] AF-2 domain binding [def] "Interacting selectively and non-covalently with the AF-2 domain of a protein, a highly conserved ligand-dependent transactivation domain which is essential for receptor-mediated transcriptional activation." [PMID

3569 Pathogen[ Q2Q067] interacts with 1 human partners:{P62508}

3570 Pathogen[ P0C214] interacts with 1 human partners:{P62508}

3571 Pathogen[ P03346] interacts with 2 human partners:{P51843;P62508}

3572 Pathogen[ Q85601] interacts with 1 human partners:{P62508}

3573 Pathogen[ P14079] interacts with 1 human partners:{P62508}

3574 Pathogen[ P03383] interacts with 1 human partners:{P62508}

3575 Pathogen[ P03410] interacts with 1 human partners:{P62508}

3576 Pathogen[ P14075] interacts with 1 human partners:{P62508}

3577 Pathogen[ P0C206] interacts with 1 human partners:{P62508}

3578 Pathogen[ P03363] interacts with 1 human partners:{P62508}

3579 [Cluster 326]GO:0045182+F molecular\_function [name] translation regulator activity [def] "Any molecular function involved in the initiation, activation, perpetuation, repression or termination of polypeptide synthesis at the ribosome." [GOC

3580 Pathogen[ Q2Q067] interacts with 6 human partners:{O00425;Q9Y6M1;Q9Y2T7;P62263;O43918;P46781}

3581 Pathogen[ P0C214] interacts with 7 human partners:{P62263;O00425;Q9NZI8;Q9Y2T7;P46781;O43918;Q9Y6M1}

3582 Pathogen[ P03346] interacts with 7 human partners:{O43918;Q9Y6M1;O00425;Q9NZI8;P46781;Q9Y2T7;P62263}

3583 Pathogen[ Q85601] interacts with 6 human partners:{Q9Y2T7;P62263;Q9Y6M1;O00425;O43918;P46781}

3584 Pathogen[ P14079] interacts with 6 human partners:{P46781;Q9Y2T7;P62263;Q9Y6M1;O43918;O00425}

3585 Pathogen[ P03383] interacts with 5 human partners:{Q9Y2T7;O43918;P46781;O00425;P62263}



3586 Pathogen[ P03410] interacts with 6 human  
partners:{P46781;O43918;O00425;P62263;Q9Y2T7;Q9Y6M1}

3587 Pathogen[ P14075] interacts with 5 human  
partners:{P46781;O43918;Q9Y2T7;O00425;P62263}

3588 Pathogen[ P0C206] interacts with 6 human  
partners:{P46781;P62263;O43918;Q9Y6M1;Q9Y2T7;O00425}

3589 Pathogen[ P03363] interacts with 7 human  
partners:{O00425;Q9Y6M1;Q9NZI8;P46781;O43918;Q9Y2T7;P62263}

3590 [Cluster 327]GO:0030247+F molecular\_function [name] polysaccharide binding [def]  
"Interacting selectively and non-covalently with any polysaccharide, a polymer of more  
than 20 monosaccharide residues joined by glycosidic linkages." [GOC]

3591 Pathogen[ Q2Q067] interacts with 1 human partners:{P35573}

3592 Pathogen[ P0C214] interacts with 1 human partners:{P35573}

3593 Pathogen[ P03346] interacts with 1 human partners:{P35573}

3594 Pathogen[ Q85601] interacts with 1 human partners:{P35573}

3595 Pathogen[ P14079] interacts with 1 human partners:{P35573}

3596 Pathogen[ P03383] interacts with 1 human partners:{P35573}

3597 Pathogen[ P03410] interacts with 1 human partners:{P35573}

3598 Pathogen[ P14075] interacts with 1 human partners:{P35573}

3599 Pathogen[ P0C206] interacts with 1 human partners:{P35573}

3600 Pathogen[ P03363] interacts with 1 human partners:{P35573}

3601 [Cluster 328]GO:0031369+F molecular\_function [name] translation initiation factor  
binding [def] "Interacting selectively and non-covalently with a translation initiation  
factor, any polypeptide factor involved in the initiation of ribosome-mediated  
translation." [GOC]

3602 Pathogen[ Q2Q067] interacts with 5 human  
partners:{Q13541;Q9UI10;Q9H9Z2;P62847;Q13144}

3603 Pathogen[ P0C214] interacts with 5 human  
partners:{Q9UI10;P62847;Q13144;Q9H9Z2;Q13541}

3604 Pathogen[ P03346] interacts with 6 human  
partners:{Q13541;Q92879;P62847;Q9H9Z2;Q13144;Q9UI10}

3605 Pathogen[ Q85601] interacts with 5 human  
partners:{Q13144;Q13541;P62847;Q9H9Z2;Q9UI10}

3606 Pathogen[ P14079] interacts with 5 human  
partners:{Q9UI10;P62847;Q9H9Z2;Q13144;Q13541}

3607 Pathogen[ P03383] interacts with 5 human  
partners:{Q9H9Z2;Q9UI10;Q13144;Q13541;P62847}

3608 Pathogen[ P03410] interacts with 5 human  
partners:{P62847;Q13541;Q9H9Z2;Q9UI10;Q13144}

3609 Pathogen[ P14075] interacts with 5 human  
partners:{Q9H9Z2;Q9UI10;P62847;Q13144;Q13541}

3610 Pathogen[ P0C206] interacts with 5 human  
partners:{Q13541;Q13144;Q9H9Z2;Q9UI10;P62847}

3611 Pathogen[ P03363] interacts with 6 human  
partners:{P62847;Q92879;Q9UI10;Q9H9Z2;Q13144;Q13541}

3612 [Cluster 329]GO:0043022+F molecular\_function [name] ribosome binding [def]  
"Interacting selectively and non-covalently with any part of a ribosome." [GOC]

3613 Pathogen[ Q2Q067] interacts with 17 human  
partners:{P05198;Q9BY44;Q9UBQ5;O95997;P56537;P38935;P63241;Q9BRP8;Q9Y3A5;P41227;P0886  
5;Q6IS14;P62495;Q9GZV4;Q8NE71;Q6R327;Q9BXJ9}

3614 Pathogen[ P0C214] interacts with 19 human  
partners:{Q6IS14;Q9BRP8;P41227;Q9BY44;P46379;Q9GZV4;P08865;P38935;P63241;Q8NE71;Q6R32  
7;P62495;Q9BXJ9;Q8IV48;P05198;O95997;Q9UBQ5;Q9Y3A5;P56537}

3615 Pathogen[ P03346] interacts with 19 human  
partners:{P38935;Q9UBQ5;Q9GZV4;P56537;P62495;P63241;O95997;Q6IS14;P08865;P41227;P4637  
9;Q6N069;Q9BXJ9;Q9BY44;Q8NE71;Q9BRP8;Q6R327;Q9Y3A5;P05198}

3616 Pathogen[ Q85601] interacts with 18 human  
partners:{Q6N069;Q9UBQ5;Q9GZV4;P62495;P38935;Q9Y3A5;P46379;P56537;Q9BY44;P63241;Q9BRP  
8;P41227;Q9BXJ9;Q8NE71;P05198;P08865;O95997;Q6IS14}

3617 Pathogen[ P14079] interacts with 19 human  
partners:{Q6R327;Q8IV48;P41227;Q9BY44;Q6IS14;P56537;Q9BXJ9;P62495;P05198;Q9Y3A5;Q9BRP  
8;Q8NE71;O95997;P63241;P08865;Q6N069;P38935;Q9UBQ5;Q9GZV4}

3618 Pathogen[ P03383] interacts with 15 human  
partners:{Q9UBQ5;P41227;Q8NE71;P56537;Q9GZV4;P63241;Q9BY44;Q9BXJ9;P08865;P62495;P0519  
8;Q9Y3A5;O95997;P38935;Q9BRP8}

3619 Pathogen[ P03410] interacts with 19 human  
partners:{Q8NE71;Q8IV48;O95997;P08865;P41227;P38935;Q6N069;P62495;Q6R327;Q9BY44;P6324  
1;Q9GZV4;P56537;Q9Y3A5;Q9UBQ5;Q9BXJ9;Q6IS14;Q9BRP8;P05198}

3620 Pathogen[ P14075] interacts with 16 human  
partners:{P62495;P41227;P56537;P08865;Q9BXJ9;Q9BRP8;P38935;O95997;Q9GZV4;P63241;P0519  
8;Q6R327;Q8NE71;Q9UBQ5;Q9BY44;Q9Y3A5}

3621 Pathogen[ P0C206] interacts with 20 human  
partners:{Q9GZV4;Q6IS14;P38935;P08865;P41227;Q8IV48;O95997;P62495;Q6N069;P05198;Q6R32  
7;P56537;Q8NE71;P63241;Q9Y3A5;Q9BY44;Q9BXJ9;P46379;Q9BRP8;Q9UBQ5}

3622 Pathogen[ P03363] interacts with 19 human  
partners:{P46379;P41227;Q6N069;Q9GZV4;P08865;Q9BY44;Q9UBQ5;Q9Y3A5;Q9BRP8;P62495;P0519

8;P56537;P63241;Q8NE71;O95997;Q6IS14;P38935;Q9BXJ9;Q6R327}

3623 [Cluster 330]GO:0004083+F molecular\_function [name] bisphosphoglycerate 2-phosphatase activity [def] "Catalysis of the reaction

3624 Pathogen[ Q2Q067] interacts with 4 human partners:{Q8N0Y7;P18669;P15259;P07738}

3625 Pathogen[ P0C214] interacts with 3 human partners:{P15259;Q8N0Y7;P07738}

3626 Pathogen[ P03346] interacts with 4 human partners:{P07738;P18669;Q8N0Y7;P15259}

3627 Pathogen[ Q85601] interacts with 4 human partners:{P18669;P15259;Q8N0Y7;P07738}

3628 Pathogen[ P14079] interacts with 4 human partners:{P15259;P07738;P18669;Q8N0Y7}

3629 Pathogen[ P03383] interacts with 4 human partners:{P18669;P07738;Q8N0Y7;P15259}

3630 Pathogen[ P03410] interacts with 4 human partners:{P07738;Q8N0Y7;P15259;P18669}

3631 Pathogen[ P14075] interacts with 4 human partners:{P18669;P15259;P07738;Q8N0Y7}

3632 Pathogen[ P0C206] interacts with 4 human partners:{Q8N0Y7;P07738;P18669;P15259}

3633 Pathogen[ P03363] interacts with 3 human partners:{P18669;Q8N0Y7;P15259}

3634 [Cluster 331]GO:0004170+F molecular\_function [name] dUTP diphosphatase activity [def] "Catalysis of the reaction

3635 Pathogen[ Q2Q067] interacts with 1 human partners:{P33316}

3636 Pathogen[ P0C214] interacts with 1 human partners:{P33316}

3637 Pathogen[ P03346] interacts with 1 human partners:{P33316}

3638 Pathogen[ Q85601] interacts with 1 human partners:{P33316}

3639 Pathogen[ P14079] interacts with 1 human partners:{P33316}

3640 Pathogen[ P03383] interacts with 1 human partners:{P33316}

3641 Pathogen[ P03410] interacts with 1 human partners:{P33316}

3642 Pathogen[ P14075] interacts with 1 human partners:{P33316}

3643 Pathogen[ P0C206] interacts with 1 human partners:{P33316}

3644 Pathogen[ P03363] interacts with 1 human partners:{P33316}

3645 [Cluster 332]GO:0009019+F molecular\_function [name] tRNA (guanine-N1-)-methyltransferase activity [def] "Catalysis of the reaction

3646 Pathogen[ Q2Q067] interacts with 1 human partners:{Q32P41}

3647 Pathogen[ P0C214] interacts with 1 human partners:{Q32P41}

3648 Pathogen[ P03346] interacts with 1 human partners:{Q32P41}

3649 Pathogen[ Q85601] interacts with 1 human partners:{Q32P41}

3650 Pathogen[ P14079] interacts with 1 human partners:{Q32P41}

3651 Pathogen[ P03383] interacts with 1 human partners:{Q32P41}

3652 Pathogen[ P03410] interacts with 1 human partners:{Q32P41}

3653 Pathogen[ P14075] interacts with 1 human partners:{Q32P41}

3654 Pathogen[ P0C206] interacts with 1 human partners:{Q32P41}

3655 Pathogen[ P03363] interacts with 1 human partners:{Q32P41}

3656 [Cluster 333]GO:0050661+F molecular\_function [name] NADP binding [def] "Interacting selectively and non-covalently with nicotinamide-adenine dinucleotide phosphate, a coenzyme involved in many redox and biosynthetic reactions\_ binding may be to either the oxidized form, NADP+, or the reduced form, NADPH." [GOC

3657 Pathogen[ Q2Q067] interacts with 5 human partners:{P29474;P04406;Q9NNW7;O14556;Q9UHB4}

3658 Pathogen[ P0C214] interacts with 12 human partners:{P29474;P52209;P11413;Q86XF0;Q9NNW7;P35270;O14556;P00374;Q16881;Q9UHB4;P48163;P04406}

3659 Pathogen[ P03346] interacts with 6 human partners:{P04406;Q9UBK8;P29474;Q9UHB4;O14556;Q9NNW7}

3660 Pathogen[ Q85601] interacts with 4 human partners:{Q9UHB4;O14556;P29474;P04406}

3661 Pathogen[ P14079] interacts with 6 human partners:{Q9UHB4;Q86XF0;P00374;P52209;Q9NNW7;P04406}

3662 Pathogen[ P03383] interacts with 4 human partners:{P29474;Q9UHB4;O14556;P04406}

3663 Pathogen[ P03410] interacts with 8 human partners:{O14556;P00374;P52209;P29474;Q86XF0;P04406;Q9UHB4;Q9NNW7}

3664 Pathogen[ P14075] interacts with 4 human partners:{P29474;Q9UHB4;P04406;O14556}

3665 Pathogen[ P0C206] interacts with 5 human partners:{Q9NNW7;O14556;P04406;P29474;Q9UHB4}

3666 Pathogen[ P03363] interacts with 5 human partners:{P29474;Q9UHB4;Q9NNW7;P04406;O14556}

3667 [Cluster 334]GO:0016740+F molecular\_function [name] transferase activity [def] "Catalysis of the transfer of a group, e.g. a methyl group, glycosyl group, acyl group, phosphorus-containing, or other groups, from one compound (generally regarded as the donor) to another compound (generally regarded as the acceptor). Transferase is the systematic name for any enzyme of EC class 2." [ISBN

3668 Pathogen[ Q2Q067] interacts with 176 human partners:{Q9Y253;Q8TCS8;O95602;Q15054;Q12905;O43463;P22392;O00411;P31749;Q9NRF9;Q96CB9;O14744;Q9Y6K5;Q8IZD2;P07741;Q9NVM4;O60294;Q9H5J4;P22087;Q9H9T3;P30419;P21980;Q9H2K2;Q9H5Q4;Q96LA8;O43159;Q15910;P46087;Q9NR48;Q6XQN6;Q93015;Q8WVM0;Q8NE18;Q460N3;Q9Y6E7;P10515;Q7Z7A3;P19367;Q9Y6K1;Q460N5;Q9NRN7;O14929;Q8NDF8;Q9Y5N5;Q9HAN9;P55345;P22061;Q9UBP6;O00204;P0CG30;Q9UKN8;Q92800;Q9UNA4;Q9H825;P30876;O14757;Q8WU03;O14686;P37837;A6NHQ2;Q8TBK2;Q7L0Y3;Q9UBZ9;Q330K2;P49005;Q6PF06;Q96DP5;P22557;P35573;Q9H9Y6;P13196;Q14749;Q9UIC8;Q9NR22;Q5TAX3;O43148;Q92979;Q99873;P32189;P07902;Q9UBC3;Q9BW60;Q16851;P06746;Q9NRG4;Q9GZR5;Q8N1G2;Q9GZZ1;O75582;Q15047;P49356;Q08J23;Q9BSU3;P26358;Q92831;P46976;P34896;O96017;Q16222;P41227;P54840;P56282;Q86Y97;P50750;Q13233;Q9HD40;P09874;Q53GL7;Q9HCU8;P13807;P50613;O14746;P49354;Q92830;P04406;P49366;Q96RS0;Q9BV86;Q96FX7;Q92993;O96007;P24928;Q9Y697;A1L3X0;P54098;Q13144;P04053;Q9HB03;P04818;O14920;O95271;Q7Z5W3;Q

- 32P41;Q9UI43;P45984;Q9UHN1;O43318;P49336;Q9BVS5;P16455;Q92793;Q5T8I9;P0CG29;Q8IXQ6;P14324;P21675;Q9NP87;P24941;Q9UKK3;Q8TEK3;Q9UNQ2;Q9H974;P11802;P51580;Q9BXR0;P21673;P1172;Q9BWH6;Q9NVV4;Q9H7H0;Q9H5I1;O15111;P08397;O14802;Q6PCE3;Q86X55;Q14442;Q15759;O43708;Q86TU7;Q8IY81;O96028;Q8WTS6;Q00534;P51003;Q9NUP7}
- 3669 Pathogen[ P0C214] interacts with 264 human partners: {P50440;Q04446;Q92993;Q14410;Q96T66;Q9H825;P48728;P49354;Q96FX7;Q9HBK9;Q9Y617;Q9NXX9;O00411;Q8IXQ6;Q9H5I1;O15111;O95045;Q14409;P04818;O95260;Q15047;O14746;P23919;P00480;Q9HAN9;Q8TE04;P30876;Q8NDF8;P46087;P41227;Q9H9Y6;O75390;P06746;P54098;Q7L0Y3;P21675;O43159;P22735;P0C7V9;Q14164;P53396;P07741;P51003;Q93015;P50750;Q16222;P50613;Q460N5;Q9BWH6;P0CG30;Q6PF06;A6NJ78;Q9NVM4;P11802;Q9Y6K5;Q9H7H0;A6NHQ2;O14929;O94921;Q92793;P51580;P40261;Q9UBZ9;P29401;Q9UKN8;P29728;P34897;Q96DP5;Q9BSU3;Q9GZR5;Q9Y6K1;P1277;P11172;Q9UNQ2;Q16613;Q6XQN6;Q9GZZ1;P22087;Q99873;Q12905;Q15910;Q9Y232;Q86SQ9;P55345;P49005;Q9Y3D8;O95396;Q8N6Q8;P32189;O60551;P22557;O43463;Q9BXR0;P51854;Q9UET6;P35573;Q9HCU8;O43318;P13196;O43148;Q9BTE1;P46976;Q13057;Q96C11;Q6PCE3;Q8NE18;Q9Y2G5;Q9HB03;Q86W50;P22061;O75223;P49366;O60825;Q9NYP7;P08397;P23786;Q9H3H1;Q53GL7;P37837;Q00534;Q13233;P21127;Q00536;Q16831;P14618;Q9Y697;O96017;Q14749;Q7Z5W3;A1L3X0;P49336;P34896;Q9H0A0;P49356;Q16851;Q92979;P52788;Q9UNA4;O15488;P26358;Q8J23;Q13144;Q9BZQ4;Q9BWD1;Q8IYL2;Q8WU03;Q8TCS8;Q5T8I9;P24941;O15382;P19623;Q9Y5N5;Q9UI43;P19367;O00204;Q86TU7;O60294;P14324;Q8IY81;Q96RS0;Q9NRF9;Q5T440;O95251;Q9NW08;Q5SZD4;Q86Y97;Q9UBP6;Q9H2K2;Q7Z7A3;P16455;O96007;P24928;O75582;Q9BZ3;Q9H9T3;P54687;Q32P41;Q9NUP7;Q92831;Q8IXQ9;Q13126;O95602;Q15759;P07902;P54840;P04053;P21980;Q8TEA1;Q460N3;Q9UKK3;Q92830;Q15054;O00399;P42765;P45984;Q969I3;A6NK58;Q9NR48;Q8N1G2;Q9HCE5;Q9BW60;P30419;Q8WVM0;Q96BT7;Q15274;Q9NWZ5;Q9HD40;P16118;Q86X55;Q9UIC8;P22392;P21673;Q96EK6;Q9NP87;Q6IN84;O43708;Q8NFW8;O14757;Q8WTS6;Q9NRN7;Q9NQR1;Q9H974;O95271;Q92800;Q8N159;Q16762;Q5EBM0;P10515;Q9NVV4;Q8NFF5;Q9NRG4;P56282;P43490;Q96CB9;Q5HYK3;Q9Y6E7;P13807;P31939;O14920;Q9Y253;P04406;P00558;O14802;Q9BV86;P31749;Q9BVS5;Q9NR22;Q9NQV7;Q06520;P36957;P09874;Q8TBK2;Q8IZD2;Q96LA8;Q9H5Q4;Q9H0P0;Q5TAX3;Q8TEK3;O96028;Q330K2;Q16773;Q9UHN1;Q6IB77;P0CG29}
- 3670 Pathogen[ P03346] interacts with 230 human partners: {O75390;Q08J23;Q9HCE5;Q9BW60;O00204;Q96FX7;P21980;Q9Y253;P50135;Q06520;P45984;Q00536;Q9Y6K1;P22061;Q7Z5Q5;Q15788;P13807;O15111;Q9NQV7;A6NJ78;Q92979;Q9HCU8;P04406;Q5XG87;Q9NRN7;Q99873;O96017;Q8WYB5;Q12905;Q5T8I9;Q9BSU3;Q92800;Q86Y97;P54098;Q8IXQ9;Q93015;Q32P41;Q460N3;Q9NQR1;P21127;O95260;A6NHQ2;Q9UNA4;Q9Y5N5;P51580;Q8TBK2;P49336;Q9UBZ9;O43159;Q53GL7;Q8IYL2;P24941;P56282;Q8TEK3;Q9UKK3;O14744;P19367;O14757;Q8WU03;Q9H9Y6;Q9UIC8;P23786;Q16222;Q9UHN1;Q9BYW2;Q9H825;Q9UBC3;P49005;P21673;P26358;Q92831;Q9Y697;Q8NFW8;P22557;P35573;Q14749;Q86SQ9;Q9NR33;P13196;Q9HAN9;P46976;Q86Z02;Q9NRF9;Q9BTE1;O43463;Q5T440;Q9Y6E7;P11802;Q6PCE3;Q9NRG4;Q9UNQ2;Q6XQN6;P37837;Q9UKN8;O60294;P0C7V9;Q92830;P0CG30;Q9H2K2;Q92794;O43148;P49354;Q96DP5;P49356;P51003;Q16851;P41227;Q5TAX3;Q7Z624;Q15646;P31749;Q9H9T3;Q9BWD1;Q8WTS6;Q86U44;Q9H5J4;O95251;Q9BVS5;P48728;Q8TCS8;Q8IXQ6;Q8TD19;P46087;O14746;Q9NVV4;Q7Z7A3;P55345;P50750;Q9NR22;Q9NVM4;P14324;Q9H5Q4;P49366;P53611;Q96RS0;Q9BWH6;Q9Y3D8;Q8N1G2;O00411;O00399;O14717;Q9HD40;Q9HB03;Q13233;O14686;O75582;Q9UBP6;P22392;O96007;P0CG29;O43708;P09874;Q15910;Q8IY81;Q96BT7;Q9NUP7;Q8NDF8;Q9H7H0;O95602;Q8WVM0;P21675;P30876;Q9H7Z6;P54840;Q9BXR0;Q15759;P04053;Q96PY6;P45985;Q6IN84;Q9UGN5;O95271;P42765;Q15047;Q9H974;P32189;Q6PF06;Q5SZD4;Q86X55;Q96GJ1;Q5HYK3;O95050;Q9BV86;Q8WUY8;Q00534;Q14442;P22087;Q9Y6F1;Q7L0Y3;Q9Y232;P24928;Q9GZZ1;O14920;Q13029;O94921;P11172;O15516;P07741;P22993;Q9NP87;P22735;O43318;P22735;Q7Z5W3;Q9NR48;Q9H5I1;Q460N5;P10515;Q13395;Q330K2;Q9UI43;Q13144;P06746;O14965;O14802;Q14164;Q8IZD2;Q9Y6K5;P40261;Q9HBK9;Q96LA8;O14929;Q9NWZ5;Q15054;Q96CB9;O96028;Q8NE18;O00444;Q969T7;Q86TU7}
- 3671 Pathogen[ Q85601] interacts with 213 human partners: {Q9H5I1;Q9NRN7;Q32P41;P46087;Q00536;Q5SZD4;Q9BXR0;P09874;O95602;P13807;Q9NQV7;O43148;Q8N1G2;P31749;O43708;Q9NR22;O96017;Q86X55;Q9BVS5;A1L3X0;Q9GZZ1;Q9BWH6;Q8TBK2;P50750;P0CG29;Q93015;O95251;P00480;P56282;Q9NQR1;Q92979;Q96PY6;Q9HD40;O15111;A6NHQ2;P16455;Q9H9T3;P0CG30;Q9NR48;Q330K2;P49336;Q8N6Q8;Q9Y697;P11172;Q9UBP6;Q86TU7;Q9H825;O60825;Q460N3;Q9NVM4;O15516;Q7Z5W3;Q9UKK3;Q8WU03;Q9BV86;O14686;P37837;Q9H7Z6;Q16613;Q9Y5N5;Q5T8I9;O43159;Q9H974;Q9UGP5;P49005;P21673;P26358;Q92831;Q96FX7;O60551;Q86SQ9;P13196;Q13144;P32189;Q9BTE1;O14744;Q15054;Q9HAN9;O43463;Q9H7H0;P16118;Q9Y6E7;Q9NRF9;P11802;Q9UKN8;Q9H9Y6;Q8NE18;Q6XQN6;O14757;Q16222;O60294;O14965;Q16851;Q92830;Q14164;Q9H2K2;Q8TEA1;Q9Y6F1;P46976;P49354;P41227;Q9Y6K5;Q5XG87;Q9BW60;P35573;P54098;O95045;Q5TAX3;O14929;O95260;P34896;Q9UI43;P14618;Q8WTS6;Q99873;Q9H5J4;Q6PF06;O14920;Q08J23;Q8IYL2;Q8TCS8;Q8IXQ6;Q9UBZ9;P21980;Q7Z7A3;P14324;Q9UET6;Q9Y6K1;Q96RS0;Q9UBT6;O94921;O00399;Q9HB03;O75582;P49356;P22392;O96007;P22061;P50613;Q96EK6;Q6IB77;P07741;Q8IY81;Q9BSU3;Q8TEK3;Q9NUP7;O00204;Q8NDF8;Q9NW08;Q9HCU8;Q04446;Q86Y97;O14746;Q15759;P04053;P45984;Q9UGN5;Q12905;P21675;Q15910;P07902;P08397;P06746;P21127;P54840;P22087;Q9NRG4;Q9H5Q4;Q7L0Y3;Q9GZR5;Q9BWD1;Q6PCE3;P24928;Q9H0P0;Q13233;P30876;P04406;Q8WVM0;Q00534;Q9HCE5;Q92993;Q9NP87;Q9NVV4;Q15047;O43318;Q92793;P51003;Q9UIC8;Q92800;P30419;O95271;Q460N5;P10515;O00411;Q9UHN1;Q9Y253;P24941;Q9UNA4;Q8IXQ9;Q53GL7;O14802;O15382;Q8IZD2;Q14749;Q969I3;P51955;Q96LA8;Q96CB9;Q9UBC3;P55345;O96028;P19367;Q9UNQ2}
- 3672 Pathogen[ P14079] interacts with 303 human partners: {P31751;Q5VV42;P51854;Q6PF06;Q8TE04;O75223;Q8N159;Q8IXQ6;Q14004;O14746;Q92979;Q9H0P0;P09874;P41227;Q96RS0;Q86UY6;Q9NR22;P13196;O95544;O60294;Q8NFF5;Q9UNA4;Q8TBZ6;Q9UI43;Q5EBM0;Q15047;Q16222;O43505;O75072;Q14442;Q9HC36;P29728;Q16851;P53779;Q96LA8;A1L3X0;Q12887;P49336;Q9NRG4;Q7L2J0;Q9Y6K1;P22735;Q9H0A0;Q9Y5N5;Q92830;Q9BWH6;P52564;Q6IPR3;Q86TN4;Q330K2;Q9UGP5;Q9UKN8;Q9BVM4;O95271;Q8NFW8;Q9UJ70;Q9UGN5;Q86YH6;P49842;Q9NW08;P31939;Q9UNQ2;P49354;Q99873;Q9Y617;Q9NRG0;P39656;O75582;Q9NVM4;Q969T7;Q14410;Q92793;Q5JXM2;P50135;P48728;Q8N1G2;Q9NUP7;Q96DU7;P13807;P49005;Q4G0N4;P57054;P30876;Q16831;O95251;P43490;Q5XG87;Q14164;Q9BV86;P21980;Q7Z4G4;Q86TU7;Q9NWZ5;P11172;P22557;P2940

1;P32189;Q9NRN9;Q92800;Q5SQI0;O43708;Q9BT22;Q9HCU8;Q96C11;Q5SZD4;Q9UBZ9;Q9BRB3;P04844;Q9H2K2;P16455;O95954;P34897;Q86SQ9;O00399;A6NHQ2;Q32P41;Q32NB8;Q96913;Q8TEA1;Q14409;Q9BTE0;P14324;O60678;Q9UKK3;Q9HB03;Q8IY81;P0C7V9;P22087;Q9NYU1;Q9HCE5;Q13144;Q9H5I1;Q16613;P45984;Q9BSU3;Q86U44;A2RU49;O96007;Q9H488;Q12905;O75648;Q9UIC8;A6NJ78;O43148;P45983;Q3V5L5;P50613;Q9BTE1;Q15054;P55345;O14744;P46976;Q460N3;P23919;Q9NRF9;Q5TAX3;Q9UBC3;Q14749;P51955;Q9BZ23;Q14353;O14929;P22392;Q9H9T3;Q16644;Q9NYU2;Q9BXR0;Q8IVS8;Q9BZQ4;Q7Z5Q5;Q6XQN6;Q9GZZ1;Q63ZY6;Q8TEK3;Q6IB77;Q15759;Q9Y6K5;O60502;P45985;P08397;Q13057;P56282;Q9UET6;Q9NQR1;Q8N8M0;P46087;P35573;Q9Y697;Q9NVV4;O60551;P30419;Q9NRN7;O95045;Q15788;Q96P11;Q93015;P49356;Q08J23;P26358;Q8WUY8;Q9NWX6;Q9H649;P21127;Q8IXQ9;P49642;P61803;Q9HBK9;P10620;Q6PCE3;Q6IN84;Q9HAN9;Q9NP87;P00480;O00411;Q9HAC7;Q8N3J2;Q16762;P06746;Q2NL67;Q9Y5R4;P10515;Q9Y253;Q96SZ6;Q9Y5Z9;Q96CB9;O43159;Q8N6Q8;Q9H7H0;Q86GJ1;P04053;Q8TBK2;P19623;Q13164;Q53GL7;Q9BVS5;Q9NQV7;Q9GZR5;P07902;O95602;Q96EK6;Q8NBL1;Q15910;Q96Q11;P24928;Q9H5Q4;Q13395;Q9Y234;P51003;P54098;Q9H2M3;O95260;Q9H3H1;O14802;E5RQL4;O15382;Q9BW60;Q9HD40;Q9UHN1;P50440;P54840;Q5T440;Q9Y2G5;Q8IYL2;Q7Z7A3;O14965;P21673;Q15274;Q5NDL2;A6NK58;P51580;P04818;Q5HYK3;Q9UBT6;Q96FX7;Q86Y97;Q9H974;Q9NR33;Q7L0Y3;Q9BV44;Q9Y6F1;Q8NE18;Q7Z624;P07741;Q9H5J4;O95050;Q96DP5;Q9UBM8;Q8TCS8;Q7Z5W3;Q8WTS6;O15488;Q92993;Q9H999;P21675;P34896;Q9H9Y6;P50750;Q86W50;Q8WVM0;P46977;P49366;P04406;P37837}

3673 Pathogen[ P03383] interacts with 168 human partners: {Q9NYV4;Q9NVV4;Q9UKN8;Q9Y253;Q9UHN1;Q92831;Q330K2;Q9H974;O14757;Q15047;O75582;O95602;P06746;P51003;O43148;Q9HCU8;Q9HD40;Q13233;Q9GZZ1;Q8TD19;Q9NWZ5;O14920;P19367;Q93015;O95251;P41227;Q9BW60;Q7Z7A3;P07902;P31749;Q9GZR5;Q9NRG4;O15111;P34896;O43463;Q9H9Y6;Q9H5J4;Q86X55;Q8IYL2;Q9UBP6;P22392;P13807;Q9H825;Q9UNQ2;Q86Y97;Q00536;Q8NDF8;Q16613;P37837;Q5T8I9;P35573;Q9H5Q4;Q8TCS8;Q9NRN7;Q9BVS5;Q92993;Q9UI43;P49005;Q86TU7;Q00534;Q7L0Y3;Q32P41;P11802;O14744;O43318;A6NJ78;Q9Y697;Q6PCE3;P21127;Q9BSU3;P0C7V9;Q8IXQ6;Q5TAX3;P49366;O43159;P56282;Q8WTS6;Q13144;Q16851;P49336;Q9HAN9;Q9UET6;P46976;P50613;Q99873;P54098;Q9Y6K1;Q8N159;O14929;P24928;A1L3X0;P24941;Q9NR22;Q8IY81;O60294;Q92830;Q6PF06;P09874;Q9Y5N5;Q53GL7;Q08J23;O14746;Q9HB03;P50750;P04406;P14324;Q9Y6E7;Q15759;Q96RS0;P22061;Q9UBZ9;Q9BXR0;O94921;Q12905;Q8WVM0;Q15054;O96007;Q9Y6K5;Q9BZ23;Q96FX7;P07741;Q8IXQ9;O14965;Q9NUP7;P46087;Q9UIC8;Q9H7H0;Q9UKK3;P10515;Q96DP5;Q96PY6;P21675;Q8WU03;Q15910;P32189;P08397;P45984;Q8WUY8;Q92979;P54840;O00411;P21980;Q96CB9;Q8TEK3;Q8TBK2;Q7Z5W3;P11172;P30876;O95271;Q5EBM0;P22087;Q9H5I1;Q9H0A0;Q9NQR1;P21673;O14802;P26358;Q14749;Q96913;Q9H9T3;Q96LA8;Q92793;Q8N1G2;Q92800;Q9BWH6;O96017;Q5SZD4;Q8NE18}

3674 Pathogen[ P03410] interacts with 311 human partners: {Q32P41;Q92830;Q9BWH6;A1L3X0;Q6IED9;O75648;Q92831;Q8IVS8;P46976;Q96DP5;A6NJ78;Q9BSU3;Q96Q11;P49354;P22087;O95045;Q15274;Q96RS0;Q4G0N4;Q96DU7;Q9HBK9;O14920;Q8TCS8;Q9GZZ1;Q9GZR5;Q96LA8;Q9H825;Q14353;P0CG30;Q96P11;Q14749;Q6PCE3;Q9H974;Q16851;P08397;Q9HCE5;Q93015;Q9H7H0;Q15047;Q3V5L5;Q8TBZ6;P37837;Q9HC36;Q8NFF5;O14929;Q8TE04;Q00534;P29728;P07741;Q8N159;P54840;Q5T440;O60551;O95251;Q96C11;Q9H5J4;O14746;Q13057;P24928;Q63ZY6;Q53GL7;P49356;P16118;Q9UBP6;Q9UBT6;Q9H2M3;P21675;O15111;Q8N3J2;Q9H0A0;Q5TAX3;O60502;Q86Y97;Q8IYT2;Q16831;P04053;Q9BUU2;O75582;Q6IB77;Q9H649;Q96CB9;Q16222;Q14410;Q8TEK3;Q9UNA4;Q9NRN9;P07902;Q8TEA1;O95954;Q04446;Q5T8I9;Q8WTS6;A6NHQ2;O95050;Q7Z4G4;P35573;Q9NVM4;Q86X55;Q460N3;Q9NWZ5;O00399;O00204;P11172;P31749;Q9Y5Z9;P06746;P30419;P30876;O95260;Q96EK6;Q7Z7A3;Q5SZD4;Q9NRG0;Q96913;Q6PF06;Q9H9T3;Q9H3H1;P56282;Q9Y697;A2RU49;Q13233;Q14442;P19623;Q6XQN6;O00411;P52788;Q9Y617;Q8TBK2;O43159;Q9NVV4;P23786;E5RQL4;Q9NR22;Q8IYL2;P50613;A6NK58;Q9Y6F1;Q8IXQ9;P23919;P42765;P0CG29;P51003;O14965;P43490;O43708;P50750;Q92979;Q92800;P26358;Q6IPR3;O43318;Q7Z5Q5;P00480;Q9UGP5;Q9UBZ9;P22557;O75600;Q9UNQ2;P41227;Q92793;Q9Y234;Q9NQV7;Q9NW08;P45985;O95602;Q9NYU1;Q13395;P04818;Q8IXQ6;P24941;Q6IN84;Q9NQR1;Q9Y253;Q16762;Q86SQ9;Q9BW60;Q86UY6;Q9UGN5;O96007;O95271;P11802;Q9BTE1;Q8N8M0;O15382;P48728;Q12905;Q16613;P49366;Q8N1G2;Q9H5I1;Q8NE18;Q9BYC2;P16455;Q9BV44;P13807;P55809;Q15054;Q9BRB3;Q9NRF9;P09874;O96017;Q5EBM0;Q5XG87;O14757;Q9H5Q4;P31939;Q9NRN7;Q96GJ1;P21673;Q15910;Q9BT22;Q9NR33;P04406;Q9BZ23;P49336;P04844;O60294;Q14409;O15488;Q8N6Q8;P53611;Q9HAN9;Q9UBC3;Q9UIC8;Q9Y6K5;P51854;Q08J23;Q7Z5W3;P46087;Q7Z624;Q8WVM0;P45984;Q9HD40;Q96FX7;Q2NL67;P63135;Q9UI43;Q330K2;Q9HB03;P53779;Q7L2J0;Q9H0P0;Q9UKK3;P49005;Q8IY81;P21980;Q9BV86;Q9BVM4;O43148;Q8NFW8;Q460N3;Q86TN4;Q5JXM2;Q9H2K2;O43463;O75223;Q8WU03;O14744;P32189;Q9NP87;Q86U44;Q5SQI0;P0C7V9;Q9BVS5;Q9Y6K1;Q9Y5N5;P39656;Q86W50;Q9Y2G5;Q9H488;Q9UKN8;Q12887;P22061;Q9UHN1;Q92993;P50440;Q9NUP7;P61803;Q86YH6;Q8WUY8;Q9BTE0;P54098;Q9NWX6;Q9BZQ4;P13196;P50135;P10515;O14802;Q5HYK3;O95568;Q9Y5R4;Q8NHY0;Q9UET6;P51580;P34897;P34896;Q86TU7;Q99873;O43505;P49642;Q9HCU8;P14324;O75390;P5345;Q9H9Y6;Q9NYU2;Q969T7;Q9NRG4;Q13144;Q7L0Y3;P22735}

3675 Pathogen[ P14075] interacts with 189 human partners: {Q9H974;P49336;P51003;Q9H7H0;Q8N1G2;Q5HYK3;Q9H5J4;Q5SZD4;Q9H5Q4;P54098;Q9Y6K1;O15111;Q9BW60;P41227;Q9BWH6;P21675;Q14442;P24941;Q9UBZ9;O14746;Q8IXQ6;Q9H3H1;P92979;P11802;Q8NDF8;Q9NWZ5;Q15759;O75648;Q9NR22;Q92831;Q93015;P11172;Q7L0Y3;P34896;P30876;O75582;Q6IN84;Q8IVS8;Q9UET6;P32189;Q9NVV4;P50613;Q12905;Q86TU7;Q9BSU3;Q9BXR0;Q00534;Q8NE18;Q8N159;Q15047;P06746;Q16613;Q9NQR1;P50750;P19367;Q5T440;Q9H825;Q15910;Q9HB03;Q92800;Q5TAX3;P49005;P08397;Q8IY81;O95045;O14929;P46976;P54840;Q8TBK2;Q7Z5W3;O60294;Q13057;Q96CB9;P26358;Q9H0A0;Q6PCE3;Q8WU03;Q92993;Q9UI43;P49366;Q6PF06;Q32P41;A1L3X0;Q9Y6E7;O14920;P16118;P31749;Q9H5I1;P07902;P04406;Q9Y253;O43505;Q8IXQ9;O00411;O14744;Q96LA8;Q9HD40;Q99873;O96017;O14965;Q9Y5N5;Q86X55;Q9UNQ2;P24928;Q8TE04;Q330K2;Q96C11;Q7Z7A3;Q9BVM4;O43318;Q5T8I9;P14324;P49842;P22087;Q9Y6K5;Q9Y2G5;Q96RS0;Q15054;P46087;O95251;Q8WUY8;P21127;P35573;Q9UBP6;P51580;P10515;O96007;Q9BVS5;P22061;P48728;Q9BZ23;Q9H9Y6;Q9NUP7;Q9GZR5;Q8TEK3;Q8IYL2;Q86Y97;P0C7V9;O95602;Q8TCS8;Q9UHN1;Q9H9T3;O43159;Q92793;O43463;Q96PY6;Q9UKN8;Q96913;Q14749;Q96FX7;Q9HCU8;P13807;Q9GZZ1;O43148;Q8WVM0;P56282;P07741;Q13144;P21980;Q9HAN9;Q08J23;P21673;O95271;Q13233;Q6XQN6;O94921;Q9UQ88;Q5EBM0;Q96EK6;P37837;Q92830;Q9NYV4;P50440;Q9NRG4;Q16851;O14802;A6NJ78;O14757;P22392;Q96DP5;P0987

- 4;Q53GL7;Q9NRN7;Q8WTS6;Q9UUKK3;Q9Y697;Q9UIC8;P45984;Q8TD19}  
3676 Pathogen[ P0C206] interacts with 290 human  
partners:{Q9Y234;O95271;Q9Y253;Q16831;Q16851;Q9BWH6;P0C7V9;Q96RS0;Q9Y232;Q08J23;Q5XG8  
7;A6NHQ2;P51854;O43159;P49336;Q92830;Q9UHN1;Q9GZZ1;Q9UI43;O14920;P31749;O95251;Q9Y6K1  
;Q9UBP6;O95260;Q9NRF9;Q12905;Q96CB9;Q16222;P46976;Q8TCS8;Q86W50;Q9BV86;Q9Y3D8;P50750;  
O95602;Q9BTE1;O96017;Q9BVM4;Q6XQN6;P39656;Q9NR33;Q9UBT6;P09874;P22392;Q9UIC8;Q9UNA4;P  
22061;Q9HCU8;Q330K2;P51955;P30419;Q9H9T3;Q99873;O75582;O14744;P45984;Q32P41;Q96GJ1;P4  
1227;Q9HB03;O60294;Q7Z5Q5;Q8TE04;O15382;Q8NE18;Q04446;Q9NRG4;Q86X55;Q13057;Q9Y6K5;Q00  
536;Q9H7B4;P21980;Q9Y697;O43463;Q460N5;Q9HD40;Q9NW08;Q96LA8;Q5EBM0;Q14442;Q53GL7;O433  
18;Q96PY6;O00444;P26358;Q86TU7;P06746;P29728;Q8TBZ6;Q92800;P54098;O96007;Q9Y5Z9;P3489  
7;Q7Z624;Q8IXQ6;Q9NWZ5;Q9NQX0;P51003;Q92993;P43490;P49005;P31939;Q9BZ23;Q8TD19;Q9UET6  
;P49642;O14686;Q15910;P19367;Q460N3;Q7Z5W3;Q8WVM0;Q969I3;P32189;Q92831;P49354;Q9NRN9;  
Q5T8I9;Q13233;O95045;P23786;Q6PF06;Q9H5J4;Q9UGP5;P13807;Q9Y6F1;Q92793;Q13144;Q8N159;Q  
96DU7;P51580;P0CG29;Q6PCE3;Q9UNQ2;Q9NQV7;P30291;Q8TEA1;O95954;P49366;P21673;Q8NFQ8;P5  
4840;Q9H825;P11172;Q9HBK9;Q93015;P14324;Q14164;Q15054;Q92979;Q96FX7;O15516;P04053;Q9U  
GN5;P50613;Q86Y97;Q9NVM4;Q7L0Y3;Q9UUKK3;Q9BVS5;O14929;O43708;Q9NR48;Q9UKN8;Q9H974;P348  
96;P22557;P50440;Q7Z4G4;Q9NQR1;O00204;Q8WUY8;O96028;Q9H0P0;O15111;Q8WTS6;Q9NUP7;Q8NDF  
8;Q9BZQ4;Q9H2M3;P04406;Q6IB77;Q9BWD1;Q9H5I1;Q9HCE5;P07902;Q9NP87;Q9NVV4;Q5TAX3;Q6IN84  
;Q8WU03;O00399;Q9UBZ9;Q9Y5N5;Q96EK6;Q9NR22;P04818;P45985;O60825;O60551;Q9HAN9;Q9H3H1;  
Q8TEK3;Q5T440;P46087;Q96C11;Q15274;Q9H5Q4;O75390;P16118;O60678;P56282;Q9BSU3;P22087;P  
07741;Q9GZR5;Q8TBK2;Q9BXR0;Q14749;P21127;P24928;Q9H7H0;Q15047;Q9UBC3;P55345;Q8NFW8;Q1  
6762;P13196;O14965;Q7L2J0;P08397;A6NK58;O14802;Q16613;P0CG30;Q5SZD4;Q8IYL2;Q9H9Y6;P49  
356;P53611;O43148;Q8IVS8;P10515;P24941;Q15788;Q15759;P16455;Q96DP5;P50135;Q9H2K2;P227  
35;Q8N1G2;Q86SQ9;P48728;Q8IXQ9;P11802;P37837;Q8IY81;O94921;P00480;Q9Y2G5;Q9H0A0;Q5HYK  
3;Q969T7;Q96E7;Q6IPR3;Q99640;A6NJ78;O95396;P14618;Q8IZD2;Q99986;Q7Z7A3;O14746;Q9H7Z6  
;Q9UIG0;P21675;O43505;A1L3X0;O15488;Q9NRN7;P29401;O00411;Q00534;Q9BW60;P35573;P30876}  
3677 Pathogen[ P03363] interacts with 185 human  
partners:{Q6XQN6;Q32P41;Q9UNQ2;Q9Y6E7;Q9Y6K5;P41227;Q92979;Q96RS0;O00411;O14744;Q9NVV  
4;Q9HD40;Q8NFW8;Q9H825;Q9H7H0;Q9H5J4;P13807;Q9UGN5;Q9NWZ5;P46087;O14920;Q08J23;Q16222  
;P51580;Q9BXR0;O95050;Q7Z624;Q16851;P0C7V9;Q8IXQ6;P21127;Q9H9Y6;Q330K2;Q9H5I1;Q969T7;  
P30878;Q96LA8;P0CG30;Q92831;Q9HAN9;O95568;Q9NRF9;Q8WVE0;Q9Y5R4;O15111;P50135;Q6PF06;Q  
9BV86;Q9NRN9;Q5T8I9;Q8N1G2;Q9Y253;O00399;Q96BT7;Q9BWD1;Q15910;P49354;O96007;O95602;P2  
4928;P49366;Q8TEK3;Q460N3;P07741;Q9Y6K1;Q9UET6;P49005;O43318;P11172;O14746;P24941;Q86  
U44;O15047;Q8IVS8;Q8TBK2;Q9Y697;O14717;Q9H2K2;Q8IXQ9;O95260;P21673;Q93015;P54098;Q8IY  
L2;Q7Z7A3;O96017;P48728;Q00534;Q9HBK9;P04053;Q9NVM4;Q9BSU3;Q9UBP6;Q9HCU8;Q9NRG4;Q9H97  
4;Q8IY81;Q9NR22;P31749;Q92830;Q9UUKK3;P51003;Q8NDF8;Q9Y3D8;P06746;P0CG29;Q9BWH6;Q8NE18  
;Q7Z5Q5;Q13395;Q14749;Q96FX7;P37837;P22087;Q7L0Y3;P04406;O00204;O95271;P26358;P49336;  
O14929;Q9NRN7;O43148;P54840;Q9UPS6;Q9HCE5;Q12905;Q9NP87;Q92793;Q5TAX3;Q9Y5N5;P21675;Q  
9NR48;Q9UIC8;O96028;A6NJ78;Q8N3J2;Q8WVM0;Q460N5;P10515;P50750;Q9GZZ1;P13196;O43159;O4  
3463;Q9BTE1;Q96W3;O60294;Q15054;Q9BVS5;Q7Z4G4;Q9NQR1;Q9UHN1;Q9UNA4;P09874;Q9NR  
R33;P11802;Q6P2P2;Q6PCE3;Q9UKN8;Q8WTS6;Q9UBZ9;P35573;Q92800;Q9UBC3;Q9UI43;Q9H9T3;O437  
08;O95251;Q06520;Q15047;P46976;Q00536;Q86Y97;Q13233;Q92993;Q86X55;Q9Y6F1;O14686;Q9987  
3;A6NHQ2;Q9H5Q4;O14757;Q53GL7}  
3678 [Cluster 335]GO:0003777+F molecular\_function [name] microtubule motor activity [def]  
"Catalysis of movement along a microtubule, coupled to the hydrolysis of a nucleoside  
triphosphate (usually ATP)." [GOC  
3679 Pathogen[ Q2Q067] interacts with 13 human  
partners:{Q8TF09;Q9H1H9;Q14204;Q9NP97;Q92624;Q96Q89;Q9H0B6;Q02241;O00139;Q07866;Q1340  
9;Q14683;O14576}  
3680 Pathogen[ P0C214] interacts with 13 human  
partners:{Q07866;Q92624;Q02241;O14645;Q8TF09;Q14204;O00139;Q9H0B6;Q96Q89;Q14683;O1457  
6;Q9NP97;Q13409}  
3681 Pathogen[ P03346] interacts with 18 human  
partners:{Q15058;Q9NSK0;O14576;Q12840;O00139;Q9H1H9;Q14204;Q8TF09;Q14683;Q6P597;Q96Q8  
9;Q02241;Q13409;O14645;Q92624;Q9NP97;Q9H0B6;Q07866}  
3682 Pathogen[ Q85601] interacts with 18 human  
partners:{Q13409;Q9NP97;Q02241;Q14204;Q9H1H9;O96015;Q12840;Q96Q89;Q92624;Q6P597;Q1468  
3;Q15058;O14576;O14645;Q8TF09;Q07866;O00139;Q9H0B6}  
3683 Pathogen[ P14079] interacts with 29 human  
partners:{Q8TF09;Q6ZMV9;Q07866;Q12840;Q02241;Q14204;Q92624;Q7Z4S6;Q9GZS0;Q9NP97;O1506  
6;Q99661;Q96Q89;O60282;O00139;Q15058;Q9H1H9;Q13409;Q86Y91;O14645;Q5T7B8;Q9UQE7;Q9NSK0  
;O14576;O96015;O95235;Q14683;Q9H0B6;Q6P597}  
3684 Pathogen[ P03383] interacts with 9 human  
partners:{Q14683;Q02241;Q9H0B6;Q9H1H9;Q9NP97;Q96Q89;Q07866;Q8TF09;Q92624}  
3685 Pathogen[ P03410] interacts with 29 human  
partners:{Q86Y91;Q14204;Q96Q89;Q15058;Q07866;Q13409;Q9NP97;Q9H0B6;O00139;Q8TF09;Q9H1H  
9;Q9UQE7;O60282;Q7Z4S6;Q9NSK0;Q12840;Q6P597;O60333;Q92624;O14576;Q6ZMV9;Q14683;P33176  
;O14645;Q9GZS0;Q5T7B8;O96015;Q02241;Q6PJI1}  
3686 Pathogen[ P14075] interacts with 10 human  
partners:{Q9NP97;Q9H1H9;Q14683;Q02241;Q8TF09;Q92624;O00139;Q07866;Q9H0B6;Q96Q89}  
3687 Pathogen[ P0C206] interacts with 22 human  
partners:{O14645;Q9NP97;O14576;Q96Q89;Q8TF09;Q6P597;Q9H1H9;Q02241;Q13409;Q92624;Q86Y9  
1;Q14204;Q9H0B6;Q9UQE7;Q14683;Q12840;Q9NSK0;O00139;Q15058;Q9BW19;O96015;Q07866}  
3688 Pathogen[ P03363] interacts with 27 human  
partners:{Q2VIQ3;P33176;Q9GZS0;Q14204;Q02241;Q7Z4S6;Q07866;Q14807;Q6ZMV9;O60282;Q9H0B  
6;Q8TF09;Q9NSK0;O14645;Q5T7B8;Q92624;Q13409;O15066;Q15058;Q96Q89;O60333;Q9H1H9;Q9NP97

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;O00139;Q14683;O14576;Q12840}
3689 [Cluster 336]GO:0017070+F molecular_function [name] U6 snRNA binding [def]
"Interacting selectively and non-covalently with the U6 small nuclear RNA (U6 snRNA)."
[GOC
3690 Pathogen[ Q2Q067] interacts with 5 human
partners:{Q9Y333;Q9UK45;Q13838;P63241;O95777}
3691 Pathogen[ P0C214] interacts with 5 human
partners:{P63241;Q9UK45;Q9Y333;O95777;Q13838}
3692 Pathogen[ P03346] interacts with 5 human
partners:{O95777;P63241;Q9Y333;Q13838;Q9UK45}
3693 Pathogen[ Q85601] interacts with 5 human
partners:{P63241;Q9UK45;Q13838;O95777;Q9Y333}
3694 Pathogen[ P14079] interacts with 5 human
partners:{Q9Y333;Q9UK45;Q13838;P63241;O95777}
3695 Pathogen[ P03383] interacts with 5 human
partners:{Q13838;P63241;O95777;Q9Y333;Q9UK45}
3696 Pathogen[ P03410] interacts with 5 human
partners:{Q13838;O95777;Q9Y333;P63241;Q9UK45}
3697 Pathogen[ P14075] interacts with 5 human
partners:{Q9UK45;O95777;P63241;Q9Y333;Q13838}
3698 Pathogen[ P0C206] interacts with 5 human
partners:{O95777;Q9Y333;Q9UK45;Q13838;P63241}
3699 Pathogen[ P03363] interacts with 5 human
partners:{O95777;Q9Y333;Q13838;P63241;Q9UK45}
3700 [Cluster 337]GO:0003678+F molecular_function [name] DNA helicase activity [def]
"Catalysis of the reaction
3701 Pathogen[ Q2Q067] interacts with 6 human
partners:{P38935;P46100;Q03468;Q13216;Q9ULG1;Q9HCK8}
3702 Pathogen[ P0C214] interacts with 7 human
partners:{Q9ULG1;P38935;Q13216;Q14566;P46100;Q9HCK8;Q03468}
3703 Pathogen[ P03346] interacts with 10 human
partners:{P46063;P38935;P46100;Q9ULG1;Q7Z333;Q14566;Q03468;Q9HCK8;Q13216;P33991}
3704 Pathogen[ Q85601] interacts with 7 human
partners:{P38935;Q13216;Q14566;Q03468;Q9ULG1;Q9HCK8;P46100}
3705 Pathogen[ P14079] interacts with 8 human
partners:{Q9ULG1;Q14566;Q13216;P46100;Q9HCK8;Q96FC9;Q03468;P38935}
3706 Pathogen[ P03383] interacts with 5 human
partners:{Q13216;P46100;Q03468;Q9HCK8;P38935}
3707 Pathogen[ P03410] interacts with 8 human
partners:{Q9ULG1;Q03468;P38935;Q9HCK8;P46100;Q13216;Q96FC9;Q14566}
3708 Pathogen[ P14075] interacts with 5 human
partners:{P38935;Q13216;Q03468;P46100;Q9HCK8}
3709 Pathogen[ P0C206] interacts with 9 human
partners:{Q9HCK8;P38935;P46100;Q03468;Q13216;O94762;Q7Z333;Q9ULG1;Q14566}
3710 Pathogen[ P03363] interacts with 9 human
partners:{O94762;Q7Z333;Q9ULG1;P46100;Q9HCK8;P46063;Q03468;Q13216;P38935}
3711 [Cluster 338]GO:0003983+F molecular_function [name] UTP [def] "Catalysis of the
reaction
3712 Pathogen[ Q2Q067] interacts with 1 human partners:{Q16851}
3713 Pathogen[ P0C214] interacts with 1 human partners:{Q16851}
3714 Pathogen[ P03346] interacts with 1 human partners:{Q16851}
3715 Pathogen[ Q85601] interacts with 1 human partners:{Q16851}
3716 Pathogen[ P14079] interacts with 1 human partners:{Q16851}
3717 Pathogen[ P03383] interacts with 1 human partners:{Q16851}
3718 Pathogen[ P03410] interacts with 1 human partners:{Q16851}
3719 Pathogen[ P14075] interacts with 1 human partners:{Q16851}
3720 Pathogen[ P0C206] interacts with 1 human partners:{Q16851}
3721 Pathogen[ P03363] interacts with 1 human partners:{Q16851}
3722 [Cluster 339]GO:0005083+F molecular_function [name] small GTPase regulator activity
[def] "Modulates the rate of GTP hydrolysis by a small monomeric GTPase." [GOC
3723 Pathogen[ Q2Q067] interacts with 8 human
partners:{Q9Y2Y0;Q8WUH2;O00401;Q53G26;O95373;Q9UPY8;P42768;Q96EY1}
3724 Pathogen[ P0C214] interacts with 9 human
partners:{Q53G26;Q9HD26;Q9UPY8;Q9Y2Y0;O00401;P42768;Q8WUH2;O95373;Q96EY1}
3725 Pathogen[ P03346] interacts with 10 human
partners:{P42768;Q8WUH2;Q9HD26;O95373;Q53G26;O00522;Q9Y2Y0;Q9UPY8;O00401;Q96EY1}
3726 Pathogen[ Q85601] interacts with 9 human
partners:{O00401;Q53G26;Q9Y2Y0;Q8WUH2;O95373;Q9HD26;P42768;Q9UPY8;Q96EY1}
3727 Pathogen[ P14079] interacts with 10 human
partners:{O95373;Q9UPY8;Q9Y2Y0;Q59EK9;Q9HD26;Q8WUH2;Q96EY1;O00522;P42768;O00401}
3728 Pathogen[ P03383] interacts with 9 human
partners:{Q9Y2Y0;Q9HD26;O00401;P42768;O95373;Q9UPY8;Q96EY1;Q53G26;Q8WUH2}
3729 Pathogen[ P03410] interacts with 11 human
partners:{Q53G26;Q59EK9;O00401;P42768;Q8WUH2;Q9HD26;Q9UPY8;O00522;Q9Y2Y0;Q96EY1;O9537
3}
3730 Pathogen[ P14075] interacts with 9 human

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3731 partners:{P42768;Q9Y2Y0;Q9HD26;Q53G26;Q9UPY8;O00401;O95373;Q8WUH2;Q96EY1}  
 Pathogen[ P0C206] interacts with 11 human  
 partners:{Q53G26;Q9UPY8;O95373;O00401;Q8WUH2;Q9Y2Y0;P42768;Q59EK9;Q96EY1;Q9HD26;O00522}

3732 Pathogen[ P03363] interacts with 10 human  
 partners:{P42768;Q53G26;Q9UPY8;O00522;Q8WUH2;O00401;O95373;Q9Y2Y0;Q96EY1;Q9HD26}

3733 [Cluster 340]GO:0008897+F molecular\_function [name] holo-[acyl-carrier-protein] synthase activity [def] "Catalysis of the reaction  
 3734 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NRN7}  
 3735 Pathogen[ P0C214] interacts with 1 human partners:{Q9NRN7}  
 3736 Pathogen[ P03346] interacts with 1 human partners:{Q9NRN7}  
 3737 Pathogen[ Q85601] interacts with 1 human partners:{Q9NRN7}  
 3738 Pathogen[ P14079] interacts with 1 human partners:{Q9NRN7}  
 3739 Pathogen[ P03383] interacts with 1 human partners:{Q9NRN7}  
 3740 Pathogen[ P03410] interacts with 1 human partners:{Q9NRN7}  
 3741 Pathogen[ P14075] interacts with 1 human partners:{Q9NRN7}  
 3742 Pathogen[ P0C206] interacts with 1 human partners:{Q9NRN7}  
 3743 Pathogen[ P03363] interacts with 1 human partners:{Q9NRN7}

3744 [Cluster 341]GO:0005049+F molecular\_function [name] nuclear export signal receptor activity [def] "Combining with a nuclear export signal (NES) to mediate transport of the NES-containing protein through the nuclear pore to the cytoplasm." [GOC  
 3745 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9UIA9;O15504}  
 3746 Pathogen[ P0C214] interacts with 2 human partners:{Q9UIA9;O15504}  
 3747 Pathogen[ P03346] interacts with 2 human partners:{Q9UIA9;O15504}  
 3748 Pathogen[ Q85601] interacts with 2 human partners:{Q9UIA9;O15504}  
 3749 Pathogen[ P14079] interacts with 2 human partners:{O15504;Q9UIA9}  
 3750 Pathogen[ P03383] interacts with 2 human partners:{O15504;Q9UIA9}  
 3751 Pathogen[ P03410] interacts with 2 human partners:{O15504;Q9UIA9}  
 3752 Pathogen[ P14075] interacts with 2 human partners:{Q9UIA9;O15504}  
 3753 Pathogen[ P0C206] interacts with 2 human partners:{O15504;Q9UIA9}  
 3754 Pathogen[ P03363] interacts with 2 human partners:{O15504;Q9UIA9}

3755 [Cluster 342]GO:0004861+F molecular\_function [name] cyclin-dependent protein kinase inhibitor activity [def] "Stops, prevents or reduces the activity of a cyclin-dependent protein kinase." [GOC  
 3756 Pathogen[ Q2Q067] interacts with 9 human  
 partners:{P42773;Q96MH2;O94992;Q92831;P38936;P42771;P46527;P49918;P42772}  
 3757 Pathogen[ P0C214] interacts with 10 human  
 partners:{P46527;P38936;Q96MH2;P49918;P42574;P42771;P42773;O94992;Q92831;P42772}  
 3758 Pathogen[ P03346] interacts with 11 human  
 partners:{P55273;P42772;P42574;Q92831;P49918;P42771;P42773;O94992;Q96MH2;P38936;P46527}  
 3759 Pathogen[ Q85601] interacts with 10 human  
 partners:{Q96MH2;P55273;P42772;Q92831;P42771;P42773;O94992;P49918;P38936;P46527}  
 3760 Pathogen[ P14079] interacts with 8 human  
 partners:{P49918;P55273;P38936;O94992;P46527;P42773;Q96MH2;P42771}  
 3761 Pathogen[ P03383] interacts with 7 human  
 partners:{Q96MH2;Q92831;P42772;P46527;O94992;P42771;P49918}  
 3762 Pathogen[ P03410] interacts with 10 human  
 partners:{Q92831;P42771;P46527;P42772;P55273;P38936;P49918;P42773;O94992;Q96MH2}  
 3763 Pathogen[ P14075] interacts with 7 human  
 partners:{Q92831;Q96MH2;P42771;P46527;O94992;P49918;P42772}  
 3764 Pathogen[ P0C206] interacts with 11 human  
 partners:{Q96MH2;P42771;P42772;Q92831;P42773;O94992;P55273;P46527;P38936;P42574;P49918}  
 3765 Pathogen[ P03363] interacts with 7 human  
 partners:{P49918;O94992;Q92831;P42772;P42773;Q96MH2;P42771}

3766 [Cluster 343]GO:0001078+F molecular\_function [name] RNA polymerase II core promoter proximal region sequence-specific DNA binding transcription factor activity involved in negative regulation of transcription [def] "Interacting selectively and non-covalently with a sequence of DNA that is in cis with and relatively close to a core promoter for RNA polymerase II (RNAP II) in order to stop, prevent, or reduce the frequency, rate or extent of transcription from an RNA polymerase II promoter." [GOC  
 3767 Pathogen[ Q2Q067] interacts with 15 human  
 partners:{Q9HC78;Q12837;O14503;Q6P1N0;P15976;Q92754;Q02447;Q9UKL0;O14867;Q13127;Q8IX07;Q92793;Q16649;Q9UI36;Q5T0F9}  
 3768 Pathogen[ P0C214] interacts with 13 human  
 partners:{Q92793;O14503;Q9HC78;O14867;Q92754;Q12837;Q9UKL0;Q8IX07;Q13127;Q9UI36;Q02447;Q6P1N0;Q5T0F9}  
 3769 Pathogen[ P03346] interacts with 19 human  
 partners:{Q9UKL0;Q12837;Q92754;O14867;O14503;Q9HC78;O43680;Q6P1N0;Q9C0J9;P15976;O95863;Q16649;Q8IX07;Q9NQ03;Q92793;Q9UI36;Q02447;Q5T0F9;Q13127}  
 3770 Pathogen[ Q85601] interacts with 15 human  
 partners:{Q13127;Q92754;P15976;O14503;Q9HC78;Q16649;Q9UI36;Q8IX07;O14867;Q02447;Q92793;Q12837;Q6P1N0;Q9UKL0;Q5T0F9}  
 3771 Pathogen[ P14079] interacts with 16 human  
 partners:{O14867;Q16649;Q92793;Q5T0F9;Q02447;P15976;Q6P1N0;Q12837;Q8IX07;Q9UKL0;Q9HC78

8;Q9UI36;Q9NQ03;Q92754;O14503;Q13127}  
3772 Pathogen[ P03383] interacts with 10 human  
partners:{O14503;Q6P1N0;Q02447;Q12837;Q9UKL0;Q92754;Q9UI36;Q92793;Q5T0F9;Q13127}  
3773 Pathogen[ P03410] interacts with 14 human  
partners:{Q9HC78;Q9UI36;Q02447;Q5T0F9;Q13127;Q92793;Q8IX07;Q16649;Q9UKL0;Q12837;O1486  
7;P15976;Q6P1N0;Q92754}  
3774 Pathogen[ P14075] interacts with 10 human  
partners:{Q9UKL0;Q12837;Q92754;O14503;Q02447;Q92793;Q9UI36;Q13127;Q6P1N0;Q5T0F9}  
3775 Pathogen[ P0C206] interacts with 16 human  
partners:{Q16649;O14867;Q13127;Q9UKL0;Q9C0J9;P15976;Q92793;Q92754;Q12837;Q9NQ03;Q6P1N  
0;Q9HC78;Q02447;Q8IX07;Q9UI36;Q5T0F9}  
3776 Pathogen[ P03363] interacts with 15 human  
partners:{Q16649;Q02447;Q9C0J9;O14867;Q13127;Q9NQ03;Q9UI36;Q92793;Q6P1N0;Q9UKL0;Q9HC7  
8;Q12837;Q5T0F9;O14503;Q92754}  
3777 [Cluster 344]GO:0005158+F molecular\_function [name] insulin receptor binding [def]  
"Interacting selectively and non-covalently with the insulin receptor." [GOC  
3778 Pathogen[ Q2Q067] interacts with 3 human partners:{Q8WWQ0;P27986;Q9BX66}  
3779 Pathogen[ P0C214] interacts with 5 human  
partners:{Q9BX66;P11168;Q8WWQ0;Q99704;P27986}  
3780 Pathogen[ P03346] interacts with 6 human  
partners:{Q13322;Q9BX66;Q9Y4G6;Q8WWQ0;Q99704;P27986}  
3781 Pathogen[ Q85601] interacts with 4 human partners:{P11168;Q9BX66;P27986;Q8WWQ0}  
3782 Pathogen[ P14079] interacts with 5 human  
partners:{Q99704;Q8WWQ0;Q9Y4G6;Q8WU20;Q9BX66}  
3783 Pathogen[ P03383] interacts with 3 human partners:{P27986;P11168;Q8WWQ0}  
3784 Pathogen[ P03410] interacts with 7 human  
partners:{P27986;P11168;Q8WWQ0;Q99704;Q9Y4G6;Q8WU20;Q9BX66}  
3785 Pathogen[ P14075] interacts with 3 human partners:{Q8WWQ0;P27986;P11168}  
3786 Pathogen[ P0C206] interacts with 6 human  
partners:{P27986;Q8WWQ0;P11168;Q8WU20;Q99704;Q9BX66}  
3787 Pathogen[ P03363] interacts with 5 human  
partners:{Q8WWQ0;Q9BX66;Q99704;Q9Y4G6;P27986}  
3788 [Cluster 345]GO:0010175+F molecular\_function [name] sequence-specific core promoter  
binding RNA polymerase II transcription factor activity involved in preinitiation complex  
assembly [def] "Interacting selectively and non-covalently with a specific DNA  
sequence in an RNA polymerase II (Pol II) core promoter, the region composed of the  
transcription start site and binding sites for transcription factors of the Pol II basal  
transcription machinery, in order to promote assembly of the transcriptional  
preinitiation complex (PIC), the formation of which is a prerequisite for transcription  
from an RNA polymerase II promoter." [GOC  
3789 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UI36}  
3790 Pathogen[ P0C214] interacts with 1 human partners:{Q9UI36}  
3791 Pathogen[ P03346] interacts with 1 human partners:{Q9UI36}  
3792 Pathogen[ Q85601] interacts with 1 human partners:{Q9UI36}  
3793 Pathogen[ P14079] interacts with 1 human partners:{Q9UI36}  
3794 Pathogen[ P03383] interacts with 1 human partners:{Q9UI36}  
3795 Pathogen[ P03410] interacts with 1 human partners:{Q9UI36}  
3796 Pathogen[ P14075] interacts with 1 human partners:{Q9UI36}  
3797 Pathogen[ P0C206] interacts with 1 human partners:{Q9UI36}  
3798 Pathogen[ P03363] interacts with 1 human partners:{Q9UI36}  
3799 [Cluster 346]GO:0004668+F molecular\_function [name] protein-arginine deiminase  
activity [def] "Catalysis of the reaction  
3800 Pathogen[ Q2Q067] interacts with 5 human  
partners:{Q9ULC6;Q9Y2J8;Q9ULW8;Q9UM07;Q6TGC4}  
3801 Pathogen[ P0C214] interacts with 5 human  
partners:{Q9UM07;Q9ULC6;Q6TGC4;Q9ULW8;Q9Y2J8}  
3802 Pathogen[ P03346] interacts with 5 human  
partners:{Q9ULC6;Q6TGC4;Q9Y2J8;Q9ULW8;Q9UM07}  
3803 Pathogen[ Q85601] interacts with 5 human  
partners:{Q9ULW8;Q9UM07;Q6TGC4;Q9Y2J8;Q9ULC6}  
3804 Pathogen[ P14079] interacts with 5 human  
partners:{Q9ULC6;Q9ULW8;Q9Y2J8;Q6TGC4;Q9UM07}  
3805 Pathogen[ P03383] interacts with 5 human  
partners:{Q9ULW8;Q6TGC4;Q9UM07;Q9Y2J8;Q9ULC6}  
3806 Pathogen[ P03410] interacts with 5 human  
partners:{Q9UM07;Q9ULC6;Q6TGC4;Q9Y2J8;Q9ULW8}  
3807 Pathogen[ P14075] interacts with 5 human  
partners:{Q9ULC6;Q9UM07;Q9Y2J8;Q9ULW8;Q6TGC4}  
3808 Pathogen[ P0C206] interacts with 5 human  
partners:{Q9Y2J8;Q9UM07;Q6TGC4;Q9ULC6;Q9ULW8}  
3809 Pathogen[ P03363] interacts with 5 human  
partners:{Q9Y2J8;Q9ULW8;Q9UM07;Q6TGC4;Q9ULC6}  
3810 [Cluster 347]GO:0000400+F molecular\_function [name] four-way junction DNA binding  
[def] "Interacting selectively and non-covalently with DNA containing four-way junctions,  
also known as Holliday junctions, a structure where two DNA double strands are held  
together by reciprocal exchange of two of the four strands, one strand each from the two



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original helices." [GOC
3811 Pathogen[ Q2Q067] interacts with 2 human partners:{P25490;O00255}
3812 Pathogen[ P0C214] interacts with 1 human partners:{O00255}
3813 Pathogen[ P03346] interacts with 2 human partners:{P25490;O00255}
3814 Pathogen[ Q85601] interacts with 2 human partners:{P25490;O00255}
3815 Pathogen[ P14079] interacts with 3 human partners:{P52701;P25490;O00255}
3816 Pathogen[ P03383] interacts with 1 human partners:{O00255}
3817 Pathogen[ P03410] interacts with 3 human partners:{P25490;P52701;O00255}
3818 Pathogen[ P14075] interacts with 1 human partners:{O00255}
3819 Pathogen[ P0C206] interacts with 3 human partners:{P25490;P52701;O00255}
3820 Pathogen[ P03363] interacts with 1 human partners:{P25490}
3821 [Cluster 348]GO:0008466+F molecular_function [name] glycogenin glucosyltransferase
activity [def] "Catalysis of the reaction
3822 Pathogen[ Q2Q067] interacts with 1 human partners:{P46976}
3823 Pathogen[ P0C214] interacts with 2 human partners:{P46976;O15488}
3824 Pathogen[ P03346] interacts with 1 human partners:{P46976}
3825 Pathogen[ Q85601] interacts with 1 human partners:{P46976}
3826 Pathogen[ P14079] interacts with 2 human partners:{P46976;O15488}
3827 Pathogen[ P03383] interacts with 1 human partners:{P46976}
3828 Pathogen[ P03410] interacts with 2 human partners:{P46976;O15488}
3829 Pathogen[ P14075] interacts with 1 human partners:{P46976}
3830 Pathogen[ P0C206] interacts with 2 human partners:{P46976;O15488}
3831 Pathogen[ P03363] interacts with 1 human partners:{P46976}
3832 [Cluster 349]GO:0003924+F molecular_function [name] GTPase activity [def] "Catalysis
of the reaction
3833 Pathogen[ Q2Q067] interacts with 17 human
partners:{Q9BZE4;Q9BVP2;O60841;Q9NVN8;P62826;P36639;O43236;P57772;Q8IYD1;P50570;P6287
9;Q15029;P23258;P60953;P63000;P61586;P68104}
3834 Pathogen[ P0C214] interacts with 24 human
partners:{P63000;O60841;P57772;Q15029;P61586;P23258;P60953;P15170;Q9H089;P41091;P1363
9;A4D1E9;P36639;Q8IYD1;P62879;P62826;Q9NVN8;P50570;Q9BZE4;O43236;Q05639;Q5VTE0;Q9BVP2
;P36404}
3835 Pathogen[ P03346] interacts with 22 human
partners:{P50570;P41091;Q9BZE4;P23258;P57772;O60841;P36639;P60953;P62826;P62879;P2034
0;O43236;P36404;Q8IYD1;P36405;Q9UHD8;Q15029;Q9NVN8;P63000;P68104;Q9BVP2;P61586}
3836 Pathogen[ Q85601] interacts with 23 human
partners:{P62879;P36405;P41091;Q9BZE4;Q5VTE0;P57772;P62826;P63000;P36639;Q9H089;P2325
8;P15170;Q15029;P68104;P50570;Q8IYD1;P61586;P60953;A4D1E9;Q9NVN8;Q05639;Q9BVP2;O43236
}
3837 Pathogen[ P14079] interacts with 29 human
partners:{Q9BVP2;Q9H4K7;P68104;P41091;P57772;A4D1E9;P68363;P46199;Q15029;O00178;P5057
0;Q8IYD1;Q9BZE4;Q96RP9;P36405;Q15814;Q8NC60;Q14692;P36639;P23258;P61586;P13639;Q969S9
;Q8N442;O60841;P62826;P49411;O43236;Q9H089}
3838 Pathogen[ P03383] interacts with 16 human
partners:{P62879;Q9NVN8;P36639;Q15029;P57772;O43236;P60953;P63000;Q9BZE4;O60841;P6282
6;P61586;P68104;Q8IYD1;Q9BVP2;A4D1E9}
3839 Pathogen[ P03410] interacts with 36 human
partners:{Q9H4K7;Q9NVN8;P68104;Q15029;O60841;P63000;P36639;Q14692;Q96RP9;P46199;P3640
5;Q969S9;P50570;Q15814;P13639;Q8NC60;Q8N442;O43236;P62826;P15170;P61586;Q9H089;Q9BVA1
;Q9UHD8;Q8IYD1;P57772;P60953;Q9BVP2;A4D1E9;P23258;P68363;P41091;O00178;P62879;Q9BZE4;
P49411}
3840 Pathogen[ P14075] interacts with 16 human
partners:{P60953;O60841;P68104;P57772;O43236;P62879;A4D1E9;P36639;Q9NVN8;Q15029;P6282
6;Q8IYD1;P61586;P63000;Q9BZE4;Q9BVP2}
3841 Pathogen[ P0C206] interacts with 23 human
partners:{P41091;P36639;Q9NVN8;P62879;Q9BVP2;Q14692;Q8IYD1;P62826;O43236;Q15814;P6158
6;Q9H089;O60841;P63000;P57772;P60953;P23258;Q9BZE4;P36405;A4D1E9;P68104;P50570;Q15029
}
3842 Pathogen[ P03363] interacts with 22 human
partners:{P62879;Q9NVN8;O60841;Q8IYD1;P50570;P68363;Q9BZE4;P63000;P41091;P57772;Q1502
9;Q13748;Q15814;Q9UHD8;Q9BVP2;P23258;Q99719;P36639;P62826;P60953;O43236;P68104}
3843 [Cluster 350]GO:0004844+F molecular_function [name] uracil DNA N-glycosylase activity
[def] "Catalysis of the cleavage of the N-C1' glycosidic bond between the damaged DNA
base and the deoxyribose sugar, releasing a free base and leaving an apyrimidinic (AP)
site. Enzymes with this activity recognize and remove uracil bases in DNA that result
from the deamination of cytosine or the misincorporation of dUTP opposite an adenine."
[GOC
3844 Pathogen[ Q2Q067] interacts with 4 human partners:{P22674;P27695;P13051;Q53HV7}
3845 Pathogen[ P0C214] interacts with 4 human partners:{P27695;Q53HV7;P22674;P13051}
3846 Pathogen[ P03346] interacts with 4 human partners:{Q53HV7;P13051;P27695;P22674}
3847 Pathogen[ Q85601] interacts with 4 human partners:{P22674;P13051;Q53HV7;P27695}
3848 Pathogen[ P14079] interacts with 4 human partners:{P27695;Q53HV7;P13051;P22674}
3849 Pathogen[ P03383] interacts with 4 human partners:{Q53HV7;P22674;P27695;P13051}
3850 Pathogen[ P03410] interacts with 4 human partners:{P22674;Q53HV7;P27695;P13051}
3851 Pathogen[ P14075] interacts with 4 human partners:{P13051;P27695;Q53HV7;P22674}
3852 Pathogen[ P0C206] interacts with 4 human partners:{P27695;Q53HV7;P13051;P22674}
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3853 Pathogen[ P03363] interacts with 3 human partners:{P13051;P22674;Q53HV7}

3854 [Cluster 351]GO:0001102+F molecular\_function [name] RNA polymerase II activating transcription factor binding [def] "Interacting selectively and non-covalently with an RNA polymerase II transcription activating factor, a protein involved in positive regulation of transcription." [GOC

3855 Pathogen[ Q2Q067] interacts with 15 human partners:{Q13562;Q12888;P06400;O14503;P28069;P25791;P84022;P11161;Q8IX07;Q9HBH7;P15336;Q92793;Q86U70;Q02577;O75376}

3856 Pathogen[ P0C214] interacts with 16 human partners:{P15336;Q92793;Q9HBH7;P84022;O14503;P25791;Q86U70;O75376;Q8IX07;P28069;P05412;Q02577;P11161;Q12888;P16220;P06400}

3857 Pathogen[ P03346] interacts with 18 human partners:{Q12888;P05412;Q86U70;P16220;P15336;P06400;Q9HBH7;O14503;P84022;P25791;Q9C0J9;Q8IX07;O75376;P11161;P28069;Q92793;Q13562;Q02577}

3858 Pathogen[ Q85601] interacts with 17 human partners:{Q86U70;P06400;P28069;O14503;Q12888;Q13562;P25791;P16220;Q02577;P05412;Q9HBH7;Q8IX07;O75376;P84022;P15336;Q92793;P11161}

3859 Pathogen[ P14079] interacts with 13 human partners:{Q92793;Q86U70;P28069;P11161;P25791;P15336;Q9HBH7;Q8IX07;O75376;Q02577;O14503;P05412;Q12888}

3860 Pathogen[ P03383] interacts with 15 human partners:{Q02577;Q12888;P16220;P28069;O75376;Q86U70;O14503;P06400;P84022;P25791;Q9HBH7;P11161;P15336;Q92793;P05412}

3861 Pathogen[ P03410] interacts with 15 human partners:{P84022;P28069;P25791;P06400;O75376;Q92793;Q8IX07;Q9HBH7;Q86U70;P16220;P05412;Q12888;Q02577;P15336;P11161}

3862 Pathogen[ P14075] interacts with 15 human partners:{P28069;Q02577;Q86U70;P05412;P11161;P15336;O14503;O75376;P25791;Q9HBH7;P06400;Q92793;Q12888;P16220;P84022}

3863 Pathogen[ P0C206] interacts with 17 human partners:{P84022;P11161;P16220;P05412;Q9C0J9;P15336;Q92793;Q12888;O75376;Q9HBH7;P25791;Q13562;Q8IX07;Q86U70;P28069;Q02577;P06400}

3864 Pathogen[ P03363] interacts with 16 human partners:{Q86U70;Q9HBH7;O75376;Q9C0J9;P16220;P06400;P25791;P15336;P28069;P84022;Q92793;P05412;O14503;Q12888;Q02577;P11161}

3865 [Cluster 352]GO:0005080+F molecular\_function [name] protein kinase C binding [def] "Interacting selectively and non-covalently with protein kinase C." [GOC

3866 Pathogen[ Q2Q067] interacts with 14 human partners:{P31749;Q9NPB6;Q9UKV0;P61981;P29966;P04792;P15924;P11388;Q9UQL6;Q07021;Q9NYF0;Q8WUI4;Q99689;Q13501}

3867 Pathogen[ P0C214] interacts with 15 human partners:{P29966;Q969G5;P15924;P04792;Q13501;Q9NPB6;Q5SW24;Q9UKV0;Q99689;P11388;P61981;Q8WUI4;Q9NYF0;Q9UQL6;P31749}

3868 Pathogen[ P03346] interacts with 20 human partners:{P15924;O75112;P11388;Q9BYM8;Q99689;Q07021;Q9NPB6;Q8TEW0;P31749;O76003;Q8WUI4;P29966;P61981;Q9NYF0;Q9UKV0;Q92832;Q9UQL6;Q9NRD5;P04792;Q13501}

3869 Pathogen[ Q85601] interacts with 17 human partners:{P61981;Q9UKV0;P31749;O75112;Q9UQL6;Q9NYF0;P15924;O76003;P11388;Q99689;Q9NPB6;P29966;P04792;Q8WUI4;Q07021;Q13501;Q5SW24}

3870 Pathogen[ P14079] interacts with 24 human partners:{P31751;Q9UQL6;O75112;P11388;Q5SW24;P15924;Q8WUI4;Q9UKV0;Q96B18;Q8TEW0;P61981;Q99689;P29966;Q92832;Q9BYM8;O76003;Q13501;P49773;Q9NPB6;P04792;Q9UEY8;Q07021;Q969G5;Q9NYF0}

3871 Pathogen[ P03383] interacts with 13 human partners:{P15924;Q9UQL6;P31749;Q99689;P04792;Q9NPB6;P29966;Q13501;Q9UKV0;P61981;Q9NYF0;Q07021;Q8WUI4}

3872 Pathogen[ P03410] interacts with 24 human partners:{Q9UKV0;P15924;Q9UEY8;O76003;Q96B18;Q07021;Q13501;P31749;P04792;Q92832;Q8WUI4;Q9UQL6;P61981;Q9NRD5;P49773;Q5SW24;Q969G5;Q9NYF0;P11388;O75112;Q8TEW0;Q9NPB6;P29966;Q99689}

3873 Pathogen[ P14075] interacts with 13 human partners:{Q07021;P04792;Q9UKV0;P61981;P31749;P29966;Q9UQL6;Q9NPB6;Q8WUI4;Q9NYF0;Q13501;P15924;Q99689}

3874 Pathogen[ P0C206] interacts with 23 human partners:{Q13501;P31749;Q07021;Q9UKV0;Q969G5;P04792;Q96B18;Q5SW24;Q99689;Q8TEW0;O75112;Q8WUI4;P61981;Q9NPB6;O76003;P15924;Q9NYF0;P11388;Q92832;Q9BYM8;Q9NRD5;P29966;Q9UQL6}

3875 Pathogen[ P03363] interacts with 15 human partners:{O75112;O76003;Q9NPB6;Q9UQL6;Q9NYF0;P15924;Q07021;Q92832;P31749;Q9UKV0;P29966;Q8WUI4;P61981;P04792;Q99689}

3876 [Cluster 353]GO:0004521+F molecular\_function [name] endoribonuclease activity [def] "Catalysis of the hydrolysis of ester linkages within ribonucleic acid by creating internal breaks." [GOC

3877 Pathogen[ Q2Q067] interacts with 4 human partners:{Q9NRR4;Q86US8;Q9UKV8;Q9UKF6}

3878 Pathogen[ P0C214] interacts with 4 human partners:{Q9UKF6;Q86US8;Q9NRR4;Q9UKV8}

3879 Pathogen[ P03346] interacts with 4 human partners:{Q86US8;Q9UKF6;Q9UKV8;Q9NRR4}

3880 Pathogen[ Q85601] interacts with 4 human partners: {Q9NRR4;Q9UKV8;Q86US8;Q9UKF6}  
3881 Pathogen[ P14079] interacts with 4 human partners: {Q9UKV8;Q9UKF6;Q86US8;Q9NRR4}  
3882 Pathogen[ P03383] interacts with 4 human partners: {Q9NRR4;Q9UKF6;Q86US8;Q9UKV8}  
3883 Pathogen[ P03410] interacts with 4 human partners: {Q9UKV8;Q9NRR4;Q86US8;Q9UKF6}  
3884 Pathogen[ P14075] interacts with 4 human partners: {Q86US8;Q9NRR4;Q9UKV8;Q9UKF6}  
3885 Pathogen[ P0C206] interacts with 4 human partners: {Q9UKF6;Q9UKV8;Q86US8;Q9NRR4}  
3886 Pathogen[ P03363] interacts with 4 human partners: {Q86US8;Q9UKV8;Q9NRR4;Q9UKF6}  
3887 [Cluster 354]GO:0008171+F molecular\_function [name] O-methyltransferase activity [def] "Catalysis of the transfer of a methyl group to the oxygen atom of an acceptor molecule."  
[GOC  
3888 Pathogen[ Q2Q067] interacts with 3 human partners: {O95671;Q7Z5W3;Q5T8I9}  
3889 Pathogen[ P0C214] interacts with 3 human partners: {O95671;Q7Z5W3;Q5T8I9}  
3890 Pathogen[ P03346] interacts with 3 human partners: {Q5T8I9;O95671;Q7Z5W3}  
3891 Pathogen[ Q85601] interacts with 3 human partners: {O95671;Q7Z5W3;Q5T8I9}  
3892 Pathogen[ P14079] interacts with 2 human partners: {O95671;Q7Z5W3}  
3893 Pathogen[ P03383] interacts with 3 human partners: {Q5T8I9;O95671;Q7Z5W3}  
3894 Pathogen[ P03410] interacts with 3 human partners: {Q5T8I9;Q7Z5W3;O95671}  
3895 Pathogen[ P14075] interacts with 3 human partners: {Q7Z5W3;O95671;Q5T8I9}  
3896 Pathogen[ P0C206] interacts with 3 human partners: {O95671;Q7Z5W3;Q5T8I9}  
3897 Pathogen[ P03363] interacts with 3 human partners: {Q5T8I9;O95671;Q7Z5W3}  
3898 [Cluster 355]GO:0017162+F molecular\_function [name] aryl hydrocarbon receptor binding  
[def] "Interacting selectively and non-covalently with an aryl hydrocarbon receptor."  
[GOC  
3899 Pathogen[ Q2Q067] interacts with 2 human partners: {P27540;Q9HBZ2}  
3900 Pathogen[ P0C214] interacts with 2 human partners: {Q9HBZ2;P27540}  
3901 Pathogen[ P03346] interacts with 3 human partners: {P27540;O00327;Q9HBZ2}  
3902 Pathogen[ Q85601] interacts with 3 human partners: {O00327;P27540;Q9HBZ2}  
3903 Pathogen[ P14079] interacts with 2 human partners: {P27540;Q9HBZ2}  
3904 Pathogen[ P03383] interacts with 1 human partners: {P27540}  
3905 Pathogen[ P03410] interacts with 2 human partners: {Q9HBZ2;P27540}  
3906 Pathogen[ P14075] interacts with 1 human partners: {P27540}  
3907 Pathogen[ P0C206] interacts with 3 human partners: {O00327;P27540;Q9HBZ2}  
3908 Pathogen[ P03363] interacts with 3 human partners: {P27540;Q9HBZ2;O00327}  
3909 [Cluster 356]GO:0003899+F molecular\_function [name] DNA-directed RNA polymerase  
activity [def] "Catalysis of the reaction  
3910 Pathogen[ Q2Q067] interacts with 29 human  
partners: {O95602;P52434;O00411;Q9GZS1;P19388;P52435;Q9H944;P30876;P19387;P61218;Q9H9Y  
6;Q9BUI4;P62487;Q9Y5B0;Q9NVU0;P62875;P24928;Q13503;Q3B726;O15318;P53803;Q9Y535;Q9BWH6  
;P05423;O14802;Q9H1D9;Q9Y2S0;O15446;O15160}  
3911 Pathogen[ P0C214] interacts with 33 human  
partners: {O00411;P30876;Q9H9Y6;Q9BUI4;P53803;Q9NVU0;Q9BWH6;P52435;O15446;Q9H1A7;Q9H1D  
9;Q9Y2S0;P61218;P05423;Q9H944;Q9GZS1;P62487;Q3B726;O15318;Q9NW08;P62875;P24928;O15160  
;Q9Y535;Q9GZM3;O95602;Q9Y5B0;P52434;P19387;Q13503;P19388;O14802;Q9P1U0}  
3912 Pathogen[ P03346] interacts with 34 human  
partners: {Q9NVU0;P52434;P0CAP2;Q9H1A7;P05423;P53803;Q9H9Y6;P61218;Q9Y5B0;O15318;P6248  
7;P19388;Q9GZM3;P52435;Q9H1D9;O15160;Q9Y535;P36954;Q9BWH6;O00411;Q9BUI4;O15446;Q9H944  
;O95602;P30876;P24928;Q13503;O14802;Q9GZS1;Q9Y2S0;P62875;P19387;Q3B726;Q9P1U0}  
3913 Pathogen[ Q85601] interacts with 35 human  
partners: {P36954;Q9P1U0;O95602;Q9H1D9;Q9BWH6;Q9Y535;Q9BUI4;Q9Y2Y1;P53803;Q9Y2S0;P6121  
8;P05423;Q9GZS1;Q9NVU0;Q9H9Y6;Q9H944;P62487;Q13503;P19388;Q9H1A7;Q3B726;Q9Y5B0;P52435  
;Q9NW08;O15446;P19387;P24928;P30876;P52434;O15160;O00411;Q9GZM3;O14802;O15318;P62875}  
3914 Pathogen[ P14079] interacts with 38 human  
partners: {Q9Y2S0;P62875;Q9GZM3;P19387;Q9Y5B0;Q9BWH6;P62487;Q9NW08;O15446;P52434;Q9GZS  
1;O15514;P30876;P61218;P53803;Q9H1A7;Q9P1U0;P19388;Q9BUI4;P05423;O15160;P52435;Q3B726  
;Q9H944;Q9Y2Y1;P49642;O00411;Q13503;Q9NVU0;O95602;P24928;O14802;O15318;Q9H1D9;P36954;  
P0CAP2;Q9Y535;Q9H9Y6}  
3915 Pathogen[ P03383] interacts with 26 human  
partners: {P53803;O95602;Q9H944;Q9Y535;Q9H9Y6;P0CAP2;P52434;P61218;Q9GZS1;Q9H1D9;Q9NVU  
0;P62487;P19387;P24928;P62875;P52435;O15318;Q9Y5B0;O00411;P19388;P30876;O15446;O14802  
;Q9BWH6;Q3B726;Q13503}  
3916 Pathogen[ P03410] interacts with 38 human  
partners: {Q9BWH6;P19387;P36954;Q9GZM3;P24928;Q9H1A7;Q13503;P30876;O00411;O15514;O1531  
8;Q9Y535;Q9NW08;P52435;O95602;P53803;Q9Y2S0;P62875;P05423;Q9GZS1;Q9P1U0;P0CAP2;P61218  
;Q9Y2Y1;O15160;Q9Y5B0;P52434;Q3B726;P62487;Q9H1D9;O15446;Q9NVU0;Q9H944;P19388;O14802;  
Q9BUI4;P49642;Q9H9Y6}  
3917 Pathogen[ P14075] interacts with 26 human  
partners: {Q9NVU0;Q9BWH6;P0CAP2;Q9GZS1;P30876;Q9Y5B0;P19388;P61218;P19387;P62487;Q3B72  
6;O00411;Q9H1D9;Q9H944;P24928;Q9Y535;Q9H9Y6;O95602;Q13503;P62875;O15446;P52434;O14802  
;O15318;P52435;P53803}  
3918 Pathogen[ P0C206] interacts with 38 human  
partners: {Q9BWH6;Q9P1U0;P62875;Q9GZM3;P36954;O95602;P19388;P61218;Q9NW08;Q9BUI4;O1531  
8;P49642;Q3B726;Q9Y535;P05423;Q9NVU0;P53803;O15514;Q9Y5B0;P19387;Q9Y2S0;Q9H944;O15446  
;P52435;P62487;Q9GZS1;P24928;Q13503;O14802;Q9Y2Y1;Q9H9Y6;P0CAP2;Q9H1D9;P52434;O15160;  
Q9H1A7;O00411;P30876}  
3919 Pathogen[ P03363] interacts with 29 human  
partners: {O00411;Q9Y535;Q9Y5B0;Q13503;Q9GZM3;P19388;Q9H9Y6;P30876;P19387;Q9NVU0;P6121

8;Q9H1D9;O95602;P24928;Q9GZS1;O15446;Q3B726;Q9H1A7;P05423;O15318;Q9BWH6;P62487;POCAP2;P53803;P52435;P52434;Q9Y2S0;Q9H944;O15160}

3920 [Cluster 357]GO:0030331+F molecular\_function [name] estrogen receptor binding [def] "Interacting selectively and non-covalently with an estrogen receptor." [GOC

3921 Pathogen[ Q2Q067] interacts with 10 human

3922 partners: {Q8WXU2;P55345;P48552;Q12962;Q8N895;Q14686;Q96T76;Q99623;P27986;Q92841}

3922 Pathogen[ P0C214] interacts with 10 human

3923 partners: {P48552;Q92841;Q99623;Q12962;P55345;Q14686;Q8WXU2;Q8N895;P27986;Q96T76}

3923 Pathogen[ P03346] interacts with 13 human

3924 partners: {P58012;Q92841;Q9P2W1;O43815;Q8N895;P55345;Q8WXU2;Q12962;Q99623;P48552;Q96T76;P27986;Q14686}

3924 Pathogen[ Q85601] interacts with 10 human

3925 partners: {Q96T76;O43815;Q8N895;Q8WXU2;Q99623;P27986;Q14686;Q12962;P48552;P55345}

3925 Pathogen[ P14079] interacts with 9 human

3926 partners: {P48552;Q99623;Q8N895;O43815;Q8WXU2;P55345;Q12962;Q96T76;Q14686}

3926 Pathogen[ P03383] interacts with 9 human

3927 partners: {P27986;Q96T76;Q14686;Q92841;Q8N895;Q12962;P48552;Q8WXU2;Q99623}

3927 Pathogen[ P03410] interacts with 11 human

3928 partners: {P27986;Q8WXU2;Q96T76;Q12962;Q14686;Q99623;O43815;Q8N895;P48552;P55345;Q5MNNZ9}

3928 Pathogen[ P14075] interacts with 9 human

3929 partners: {Q12962;Q14686;Q99623;P27986;Q8N895;Q92841;P48552;Q8WXU2;Q96T76}

3929 Pathogen[ P0C206] interacts with 11 human

3930 partners: {O43815;Q99623;P27986;Q8N895;Q14686;Q92841;Q96T76;Q12962;P55345;Q8WXU2;P48552}

3930 Pathogen[ P03363] interacts with 10 human

3931 partners: {Q99623;Q14686;Q12962;P48552;Q96T76;Q92841;O43815;Q8N895;Q8WXU2;P27986}

3931 [Cluster 358]GO:0005164+F molecular\_function [name] tumor necrosis factor receptor binding [def] "Interacting selectively and non-covalently with the tumor necrosis factor receptor." [GOC

3932 Pathogen[ Q2Q067] interacts with 5 human

3933 partners: {Q12933;Q13158;Q14790;P42224;Q9NXR7}

3933 Pathogen[ P0C214] interacts with 6 human

3934 partners: {Q13158;P42224;Q12933;Q9NXR7;P80303;Q14790}

3934 Pathogen[ P03346] interacts with 6 human

3935 partners: {P80303;Q13158;Q9NXR7;O94972;P42224;Q14790}

3935 Pathogen[ Q85601] interacts with 6 human

3936 partners: {Q13158;Q14790;P80303;Q12933;P42224;Q9NXR7}

3936 Pathogen[ P14079] interacts with 6 human

3937 partners: {P80303;Q9NXR7;Q14790;P42224;Q12933;Q13158}

3937 Pathogen[ P03383] interacts with 3 human partners: {Q13158;Q12933;Q9NXR7}

3938 Pathogen[ P03410] interacts with 4 human partners: {Q9NXR7;P80303;Q13158;Q12933}

3939 Pathogen[ P14075] interacts with 3 human partners: {Q9NXR7;Q12933;Q13158}

3940 Pathogen[ P0C206] interacts with 6 human

3941 partners: {P80303;Q13158;Q12933;Q14790;P42224;Q9NXR7}

3941 Pathogen[ P03363] interacts with 4 human partners: {O94972;Q12933;Q13158;Q9NXR7}

3942 [Cluster 359]GO:0051864+F molecular\_function [name] histone demethylase activity (H3-K36 specific) [def] "Catalysis of the reaction

3943 Pathogen[ Q2Q067] interacts with 5 human

3944 partners: {Q9UPP1;Q8NHM5;O75164;Q9H6W3;Q8N371}

3944 Pathogen[ P0C214] interacts with 5 human

3945 partners: {Q8N371;O75164;Q9H6W3;Q9UPP1;Q8NHM5}

3945 Pathogen[ P03346] interacts with 5 human

3946 partners: {O75164;Q9UPP1;Q8N371;Q8NHM5;Q9H6W3}

3946 Pathogen[ Q85601] interacts with 5 human

3947 partners: {Q8N371;Q9H6W3;Q8NHM5;Q9UPP1;O75164}

3947 Pathogen[ P14079] interacts with 4 human partners: {Q8NHM5;Q9H6W3;Q9UPP1;Q8N371}

3948 Pathogen[ P03383] interacts with 4 human partners: {Q9H6W3;O75164;Q8N371;Q9UPP1}

3949 Pathogen[ P03410] interacts with 4 human partners: {Q9UPP1;Q9H6W3;Q8N371;O75164}

3950 Pathogen[ P14075] interacts with 4 human partners: {Q8N371;Q9UPP1;Q9H6W3;O75164}

3951 Pathogen[ P0C206] interacts with 5 human

3952 partners: {Q8N371;Q9UPP1;Q9H6W3;Q8NHM5;O75164}

3952 Pathogen[ P03363] interacts with 1 human partners: {O75164}

3953 [Cluster 360]GO:0043515+F molecular\_function [name] kinetochore binding [def] "Interacting selectively and non-covalently with a kinetochore, a proteinaceous structure on a condensed chromosome, beside the centromere, to which the spindle fibers are attached." [GOC

3954 Pathogen[ Q2Q067] interacts with 3 human partners: {Q7Z460;Q9H3R5;Q96EA4}

3955 Pathogen[ P0C214] interacts with 3 human partners: {Q96EA4;Q9H3R5;Q7Z460}

3956 Pathogen[ P03346] interacts with 3 human partners: {Q96EA4;Q7Z460;Q9H3R5}

3957 Pathogen[ Q85601] interacts with 3 human partners: {Q9H3R5;Q96EA4;Q7Z460}

3958 Pathogen[ P14079] interacts with 3 human partners: {Q7Z460;Q96EA4;Q9H3R5}

3959 Pathogen[ P03383] interacts with 3 human partners: {Q7Z460;Q96EA4;Q9H3R5}

3960 Pathogen[ P03410] interacts with 3 human partners: {Q7Z460;Q9H3R5;Q96EA4}

3961 Pathogen[ P14075] interacts with 3 human partners: {Q7Z460;Q9H3R5;Q96EA4}

3962 Pathogen[ P0C206] interacts with 3 human partners: {Q9H3R5;Q96EA4;Q7Z460}

3963 Pathogen[ P03363] interacts with 3 human partners:{Q96EA4;Q7Z460;Q9H3R5}  
3964 [Cluster 361]GO:0031699+F molecular\_function [name] beta-3 adrenergic receptor binding  
[def] "Interacting selectively and non-covalently with a beta-3 adrenergic receptor."  
[GOC  
3965 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96B67}  
3966 Pathogen[ P0C214] interacts with 1 human partners:{Q96B67}  
3967 Pathogen[ P03346] interacts with 1 human partners:{Q96B67}  
3968 Pathogen[ Q85601] interacts with 1 human partners:{Q96B67}  
3969 Pathogen[ P14079] interacts with 1 human partners:{Q96B67}  
3970 Pathogen[ P03383] interacts with 1 human partners:{Q96B67}  
3971 Pathogen[ P03410] interacts with 1 human partners:{Q96B67}  
3972 Pathogen[ P14075] interacts with 1 human partners:{Q96B67}  
3973 Pathogen[ P0C206] interacts with 1 human partners:{Q96B67}  
3974 Pathogen[ P03363] interacts with 1 human partners:{Q96B67}  
3975 [Cluster 362]GO:0003724+F molecular\_function [name] RNA helicase activity [def]  
"Catalysis of the reaction  
3976 Pathogen[ Q2Q067] interacts with 4 human partners:{P26196;Q08211;Q92499;Q92841}  
3977 Pathogen[ P0C214] interacts with 4 human partners:{P26196;Q92841;Q92499;Q08211}  
3978 Pathogen[ P03346] interacts with 4 human partners:{Q92841;Q08211;Q92499;P26196}  
3979 Pathogen[ Q85601] interacts with 3 human partners:{Q92499;Q08211;P26196}  
3980 Pathogen[ P14079] interacts with 3 human partners:{Q08211;P26196;Q92499}  
3981 Pathogen[ P03383] interacts with 3 human partners:{Q92841;P26196;Q92499}  
3982 Pathogen[ P03410] interacts with 2 human partners:{Q92499;Q08211}  
3983 Pathogen[ P14075] interacts with 3 human partners:{P26196;Q92499;Q92841}  
3984 Pathogen[ P0C206] interacts with 4 human partners:{Q08211;P26196;Q92841;Q92499}  
3985 Pathogen[ P03363] interacts with 4 human partners:{Q92841;Q92499;P26196;Q08211}  
3986 [Cluster 363]GO:0003823+F molecular\_function [name] antigen binding [def]  
"Interacting selectively and non-covalently with an antigen, any substance which is  
capable of inducing a specific immune response and of reacting with the products of that  
response, the specific antibody or specifically sensitized T-lymphocytes, or both.  
Binding may counteract the biological activity of the antigen." [GOC  
3987 Pathogen[ Q2Q067] interacts with 3 human partners:{P30153;Q9NS56;Q86WV1}  
3988 Pathogen[ P0C214] interacts with 3 human partners:{P30153;Q9NS56;Q86WV1}  
3989 Pathogen[ P03346] interacts with 4 human partners:{P30153;Q9NS56;P01858;Q86WV1}  
3990 Pathogen[ Q85601] interacts with 3 human partners:{Q9NS56;P30153;Q86WV1}  
3991 Pathogen[ P14079] interacts with 4 human partners:{Q86WV1;Q9NS56;P30153;P01858}  
3992 Pathogen[ P03383] interacts with 2 human partners:{Q86WV1;P30153}  
3993 Pathogen[ P03410] interacts with 4 human partners:{Q86WV1;P01858;P12018;P30153}  
3994 Pathogen[ P14075] interacts with 3 human partners:{Q86WV1;P01858;P30153}  
3995 Pathogen[ P0C206] interacts with 4 human partners:{Q9NS56;P30153;P01858;Q86WV1}  
3996 Pathogen[ P03363] interacts with 3 human partners:{Q86WV1;P01858;P30153}  
3997 [Cluster 364]GO:0003725+F molecular\_function [name] double-stranded RNA binding [def]  
"Interacting selectively and non-covalently with double-stranded RNA." [GOC  
3998 Pathogen[ Q2Q067] interacts with 22 human  
partners:{Q12905;Q9Y6K5;Q9NR56;P55265;Q9NXV6;O15226;Q9NUL3;Q9NRR4;Q32MZ4;Q7Z2E3;Q1563  
3;O95793;Q8WYQ5;Q12906;Q08211;Q92499;Q9H9J2;Q9BYX4;Q9H875;Q9BWU0;Q9UL40;P18583}  
3999 Pathogen[ P0C214] interacts with 25 human  
partners:{Q9H9J2;Q9H875;Q9NR56;P55265;Q9Y6K5;Q12906;P29728;Q9UL40;Q9BYX4;Q12905;Q32MZ  
4;Q15633;Q9BWU0;P18583;Q7Z2E3;Q9NUL3;O15226;Q9NRR4;Q9NXV6;Q92499;Q9H2U1;O95793;Q08211  
;Q8WYQ5;Q9NS39}  
4000 Pathogen[ P03346] interacts with 27 human  
partners:{Q12905;P55265;Q32MZ4;Q9NS39;Q15633;Q12906;P18583;Q9NUL3;Q08211;Q9NXV6;Q9579  
3;Q9H2U1;Q9UL40;Q92499;Q15646;O75569;Q9H875;Q9BYX4;Q9NRR4;Q7Z2E3;O15226;Q9BWU0;Q9NQ94  
;Q9NR56;Q9Y6K5;Q9H9J2;Q8WYQ5}  
4001 Pathogen[ Q85601] interacts with 23 human  
partners:{O95793;Q9NRR4;O15226;Q9NR56;Q92499;Q08211;Q9BWU0;Q8WYQ5;Q9Y6K5;Q12906;Q9UL4  
0;Q9H875;Q9BYX4;Q32MZ4;Q15633;P55265;Q9NUL3;P18583;Q12905;Q7Z2E3;Q9H9J2;Q9NXV6;Q9H2U1  
}  
4002 Pathogen[ P14079] interacts with 26 human  
partners:{Q9UL40;O95793;Q9BYX4;P29728;Q9BWU0;Q12906;Q9NXV6;Q32MZ4;O75569;Q9NS39;Q9NR5  
6;Q08211;Q9NQ94;Q12905;P55265;Q9NUL3;Q9Y6K5;Q9NRR4;Q9H9J2;Q9H875;Q8WYQ5;Q92499;O15226  
;P18583;Q7Z2E3;Q96C10}  
4003 Pathogen[ P03383] interacts with 19 human  
partners:{Q7Z2E3;Q9NRR4;Q32MZ4;Q9NR56;Q8WYQ5;Q9BWU0;P18583;Q12905;Q9Y6K5;Q12906;Q9H9J  
2;P55265;Q9NXV6;Q92499;Q9NUL3;Q9H875;Q9UL40;O15226;Q15633}  
4004 Pathogen[ P03410] interacts with 26 human  
partners:{Q9H875;Q15633;P29728;Q9BYX4;Q9NR56;Q9NXV6;Q32MZ4;P55265;Q8WYQ5;Q9H9J2;Q9NRR  
4;O15226;O75569;Q7Z2E3;Q9UL40;Q92499;Q9BWU0;Q12905;P18583;Q9NUL3;Q9Y6K5;Q96C10;O95793  
;Q08211;Q12906;Q9H2U1}  
4005 Pathogen[ P14075] interacts with 19 human  
partners:{Q7Z2E3;Q9NXV6;P55265;Q9NUL3;Q12905;O15226;Q12906;Q9H9J2;Q92499;Q9NR56;Q9Y6K  
5;Q9NRR4;Q15633;Q32MZ4;Q9UL40;P18583;Q9BWU0;Q9H875;Q8WYQ5}  
4006 Pathogen[ P0C206] interacts with 26 human  
partners:{P55265;Q12905;P18583;Q08211;Q9NR56;Q9Y6K5;Q9NXV6;Q9BWU0;Q9NS39;P29728;O1522  
6;Q32MZ4;O95793;Q9NUL3;Q9NRR4;Q15633;Q9H875;Q9H2U1;Q9H9J2;Q9BYX4;Q96C10;Q92499;Q8WYQ5  
;Q9UL40;Q7Z2E3;Q12906}

4007 Pathogen[ P03363] interacts with 27 human partners: {Q9Y6K5; Q9H875; Q32MZ4; Q8IY21; Q9NS39; Q95793; Q9NUL3; Q9UL40; Q9H9J2; Q9NR56; Q15633; Q15226; Q12906; P18583; Q7Z2E3; Q92499; P55265; Q9NRR4; Q12905; Q9BYX4; Q9H2U1; Q9BWU0; Q08211; Q8WYQ5; Q9NXV6; Q75569; Q9NQ94}

4008 [Cluster 365]GO:0050072+F molecular\_function [name] m7G(5')pppN diphosphatase activity [def] "Catalysis of the reaction

4009 Pathogen[ Q2Q067] interacts with 1 human partners: {Q96C86}

4010 Pathogen[ P0C214] interacts with 1 human partners: {Q96C86}

4011 Pathogen[ P03346] interacts with 1 human partners: {Q96C86}

4012 Pathogen[ Q85601] interacts with 1 human partners: {Q96C86}

4013 Pathogen[ P14079] interacts with 1 human partners: {Q96C86}

4014 Pathogen[ P03383] interacts with 1 human partners: {Q96C86}

4015 Pathogen[ P03410] interacts with 1 human partners: {Q96C86}

4016 Pathogen[ P14075] interacts with 1 human partners: {Q96C86}

4017 Pathogen[ P0C206] interacts with 1 human partners: {Q96C86}

4018 Pathogen[ P03363] interacts with 1 human partners: {Q96C86}

4019 [Cluster 366]GO:0004842+F molecular\_function [name] ubiquitin-protein ligase activity [def] "Catalysis of the reaction

4020 Pathogen[ Q2Q067] interacts with 113 human partners: {Q95376; Q96J02; Q14258; Q9UPN9; Q9HAU4; Q5JXB2; Q9UII4; Q13356; Q9NS56; Q9UJX5; P62837; P53804; Q8IYW8; Q15386; Q13829; P19474; Q06260; Q9HC52; Q9UDY8; P49427; Q00762; Q9Y2X8; Q43255; Q96T88; Q9NVW2; Q9NZJ0; Q12933; P14373; P60604; Q9UJT9; Q6ZNA4; P63279; Q6VVB1; Q9NYG5; Q7Z6Z7; P51965; Q9Y3I1; P35227; Q14669; P61077; Q9UJX2; P63146; Q9Y297; Q9UKC9; Q9UK73; P78317; Q6W2J9; Q5TA31; Q86Y13; Q8NE65; Q9UM13; P40337; Q99728; Q9Y4X5; Q8N1E6; Q9NPD8; Q14933; Q95628; P51668; Q8TBB1; Q96EP1; Q13114; Q96PM5; Q9NTX7; Q13233; Q96PU5; Q15164; P61088; P35226; Q9Y4L5; Q60291; Q13618; Q99496; Q5VTR2; Q96FA3; Q9UKT7; Q76064; Q13309; Q9UK99; Q13216; Q8TDB6; Q9UJX4; Q9Y2M5; Q75150; Q9NR09; Q8TCJ0; Q9UNE7; Q14139; P49459; Q96PU4; Q05086; P62256; P68036; Q9H3F6; Q9UJX6; Q9NRD1; Q92466; Q86XK2; Q9UH90; Q9Y252; Q00463; Q13490; P22681; Q00987; Q9UMS4; Q8NEZ5; P63208; Q06587; Q9UKT5; P62877; Q8IUD6; Q7Z6E9; Q9NW38}

4021 Pathogen[ P0C214] interacts with 137 human partners: {P22681; Q05086; Q14933; Q96B02; Q9UJX6; Q9UKA1; Q96J02; Q9H832; P35226; Q8IYW8; Q9Y3I1; Q16763; Q96PM5; P35227; P19474; Q9HAU4; Q9UK99; Q99728; Q00762; Q13490; Q9UH90; Q95628; Q13829; Q00987; Q13309; P49427; Q9NS56; Q9UJX4; Q9UDY8; Q96FA3; Q9UJX5; P63208; Q9NTX7; Q96PU4; Q6W2J9; Q5JXB2; Q8IUD6; Q8N1E6; P63279; P49459; Q8NG27; Q13618; Q969T4; Q9NRD1; Q9UJX2; Q9Y297; P62877; Q00308; Q5T447; P51965; Q96T88; Q9UKT7; P78317; Q9H0M0; Q9UMS4; P61077; Q13216; Q9HCE7; Q14258; P62253; P98170; Q13233; P61086; Q95071; Q7Z6E9; Q06587; Q9Y2X8; Q14139; Q13356; Q15386; Q95376; Q12933; Q9NVW2; Q9Y2M5; Q9NZJ0; Q9UII4; P40337; P53804; Q8WZ19; Q9UKC9; Q8TBB1; Q9Y252; Q5TA31; Q6ZNA4; Q99496; Q9H4P4; Q14669; Q60291; Q15164; Q13114; Q9UJX4; Q94952; Q86XK2; Q9H469; Q86Y13; Q75150; Q9NR09; Q7Z6Z7; Q95155; Q60260; Q9UK73; Q712K3; P62256; Q9Y4L5; Q9H3F6; P51668; P14373; Q00463; Q92466; Q9Y4X5; Q5VTR2; Q8TDB6; Q8IYW5; Q8TCJ0; Q43255; Q9UNE7; Q96CA5; Q76064; Q9NPD8; Q9UPN9; Q8NE65; P61081; Q9UJX4; Q96LR5; Q9NYG5; Q9UM13; Q9HC52; P63146; Q6VVB1; P61088; Q96PU5; Q9NW38; Q8IYW7; Q96EP1; Q9UKT5; Q9UKT8; P60604}

4022 Pathogen[ P03346] interacts with 145 human partners: {Q9NZJ0; Q9UPN9; Q96J02; Q00463; Q9UKT7; Q13263; Q76064; Q9HAU4; Q9P2N7; Q9H469; Q8WZ19; Q96PU5; P68036; Q14258; P14373; Q6PCD5; Q75150; Q13489; Q5VTR2; Q95155; Q95376; Q9UJT9; Q95714; P49427; Q8NEZ5; Q9BYM8; Q99728; P35226; Q9UDY8; Q8IUD6; Q95628; Q8NE65; Q9UMS4; Q13618; Q9HC52; Q9UII4; Q96PM5; Q9H4P4; Q43255; P35227; Q9NTX7; Q9UKT8; P98170; Q9UM13; Q8WV22; P63279; Q9NYG5; Q86XK2; Q15386; P49459; Q9Y2X8; Q5TA31; Q13114; Q13829; P51668; Q5T447; Q96AX9; P61077; Q00987; Q96FA3; P61088; Q9UKA1; Q8N1E6; Q9UJX6; P62877; Q8TCJ0; Q14139; Q96EP0; Q9NS56; P60604; Q94972; P51965; Q13309; Q9UJX5; Q7Z6E9; P63146; Q9UKT5; Q9UNE7; Q00762; Q9UJX2; Q14669; P62837; Q9NRD1; Q8IUD6; Q9C040; Q13233; Q6ZNA4; Q6Q0C0; P63208; Q9NPD8; Q99496; Q13356; Q13216; P78317; Q8IYW5; Q8TBB1; Q6VVB1; P40337; Q60291; Q9BUZ4; Q9UH90; Q60260; Q9UJX4; Q94952; Q8IYW8; P19474; Q14933; Q9NR09; Q13490; Q9ULT8; Q9P2J3; Q9UK99; Q9Y4L5; Q5JXB2; Q96PU4; P22681; Q05086; P62256; Q8TDB6; Q9H0M0; Q9H3F6; Q9Y2M5; P53804; Q9Y4X5; Q92466; Q9Y252; Q9NW38; Q95071; Q9UJX4; Q96CA5; Q8NG27; Q9Y297; Q9UKC9; Q7Z6Z7; Q06587; Q9Y3I1; Q94822; Q15164; Q9UK73; Q6W2J9; Q96T88; Q86Y13; Q9NVW2; Q96EP1; Q00308}

4023 Pathogen[ Q85601] interacts with 138 human partners: {Q14139; Q9UJX2; Q7Z6E9; Q9UPN9; Q96J02; P78317; Q9Y3I1; Q13309; P62253; P22681; Q9HAU4; Q9NS56; P14373; Q9UJX6; Q16763; Q13490; Q8TDB6; P63146; Q14933; Q8WZ19; Q14258; Q8IYW7; Q00463; Q95714; P49427; Q9Y2X8; Q9UDY8; Q13216; P62877; P40337; Q9UMS4; Q6PCD5; Q96PM5; Q96PU4; Q99728; Q9Y4L5; Q9NZJ0; P98170; Q96PU5; Q969T4; Q14669; Q86XK2; Q8IUD6; Q15386; Q95155; Q96B02; Q15164; Q9NPD8; Q5TA31; Q13114; P51668; Q96LR5; P68036; P61077; Q9UJX4; P63279; Q96FA3; Q9UKC9; Q9UKA1; Q8N1E6; Q13263; Q60291; Q9UKT7; Q9UK73; P63208; Q76064; Q9UJX5; Q12933; P51965; Q9H469; Q95628; Q9UM13; Q9UJT9; Q9NYG5; P61086; Q96T88; Q00762; Q9NTX7; Q9NW38; Q99496; Q13356; P49459; Q8IYW5; Q8TBB1; Q6VVB1; Q8NE65; Q75150; Q95376; Q60260; Q9UJX4; Q9P2J3; Q5VTR2; Q9Y252; P62837; Q6ZNA4; Q9H832; Q9NR09; Q7Z6Z7; P35226; Q9Y2M5; Q9UK99; Q5JXB2; Q05086; P62256; Q13233; Q13618; Q96EP1; Q94952; Q9H3F6; Q9H4P4; P19474; P53804; Q92466; P61088; Q95071; Q43255; Q13829; Q9UKT8; Q6Q0C0; Q00987; P60604; Q8TCJ0; Q96CA5; Q8NG27; Q9UKT5; Q9UNE7; Q8WV22; Q06587; Q9HC52; Q9Y4X5; Q86Y13; Q9NVW2; Q8IYW8; Q6W2J9; Q8NEZ5; P35227; Q9NRD1; Q9UH90}

4024 Pathogen[ P14079] interacts with 88 human partners: {Q00463; Q60260; P53804; Q15164; Q9UKT5; Q95628; P51965; Q5TA31; P63279; P14373; Q8IYW8; P68036; Q13309; Q5JXB2; Q9HC52; Q13618; Q9NPD8; Q9UJX5; P60604; Q96EP0; Q6ZNA4; Q8TCJ0; Q86XK2; Q9UKC9; Q13216; Q8N1E6; Q9HAU4; Q14258; P61077; Q9BUZ4; P62877; Q96FA3; Q8IYW7; Q9NR09; Q00987; Q8TBB1; Q9NYG5; P62256; Q6W2J9; Q9UK73; P40337; Q7Z6E9; Q99496; P51668; Q9UMS4; Q13356; Q9UPN9; P19474; Q9UH90; Q5VTR2; Q9UM13; P49459; Q9BYM8; Q9Y2M5; Q9UK99; Q9NS56; Q96J02; Q94952; Q9UJX6; Q14139; P35226; Q12933; P35227; Q9Y2X8; P49427; Q8NEZ5; P78317; Q9UKT7; P62837; Q9NRD1; Q9NZJ0; Q92

466;O00762;Q9UJJP4;Q13829;P63208;Q9UJTT9;Q9Y3I1;Q9NW38;O14933;Q8NE65;P63146;Q9UJX4;Q9H3F6;Q8IUD6;Q13114;Q13490;Q06587}

4025 Pathogen[ P03383] interacts with 82 human partners: {P35227;P19474;Q9Y3I1;O14933;P53804;Q8TBB1;Q9NZJ0;Q13216;Q13233;Q9NYG5;Q13356;Q14139;P51965;Q9UJX6;P40337;Q9UK73;Q9UPN9;Q8IUV8;Q5JXB2;P49427;Q9Y2X8;Q13490;Q9HC52;Q96PU4;Q06587;O00762;Q9NTX7;Q6ZNA4;Q86XK2;P78317;P63208;Q9UKT7;Q13618;P61077;Q95628;P61088;Q6W2J9;O60260;Q9UM13;P60604;Q5TA31;Q12933;Q9UKT5;O95376;Q96PM5;Q8TCJ0;P62837;O43255;Q8NE65;Q99496;Q9H832;Q5VTR2;Q9UKC9;Q9Y252;Q9UJX4;Q96FA3;P68036;Q9UJX5;P62877;Q9NR09;Q13309;P49459;Q9Y2M5;Q9NPD8;Q14258;P62256;P63146;Q96EP1;O94952;Q9H3F6;Q9NRD1;Q9UJX2;Q92466;Q9NW38;Q13829;Q8NEZ5;O75150;Q13114;P63279;Q9UMS4;P35226;P51668}

4026 Pathogen[ P03410] interacts with 86 human partners: {Q8IUV8;Q9H469;Q9UKT7;Q13829;Q6ZNA4;Q99496;Q6W2J9;Q9NRD1;O95628;Q9UK99;P49427;Q8TCJ0;P51965;Q96FA3;Q9UJX4;Q9NYG5;Q9Y3I1;Q8TBB1;Q9UM13;Q13490;Q8WZ19;P49459;Q9UKT5;Q8N1E6;Q5VTR2;Q5TA31;O60260;Q8IUV7;P68036;P61088;Q13233;P35227;Q92466;Q14258;O14933;Q5JXB2;Q13356;Q9P2J3;Q9NR09;Q9UNE7;Q9H3F6;Q13618;P63208;O75150;Q13309;Q86XK2;Q8NEZ5;P62256;O00463;P78317;Q9UKC9;P62877;Q9Y4X5;P63146;Q9Y2X8;Q8NE65;Q12933;P51668;Q9UJX5;Q9UK73;Q13216;Q9NPD8;O00762;Q9UMS4;P63279;Q06587;Q14139;O60291;Q9UJJP4;Q00987;P60604;Q9NW38;Q9UJTT9;O94952;P53804;P35226;Q9UJX6;Q96EP1;Q9Y2M5;Q9UPN9;Q9HC52;Q13114;P40337;P61077;P62837;Q9NZJ0}

4027 Pathogen[ P14075] interacts with 79 human partners: {Q5VTR2;P53804;P60604;Q9UK73;Q96PM5;P68036;Q9NTX7;P62837;Q13618;P49427;P61088;Q9UKT7;Q9Y252;P49459;Q14139;Q96PU4;P51965;O14933;Q13216;Q9Y2X8;P63279;Q9Y3I1;Q9UJX2;P61077;O43255;Q9NW38;Q9UJX6;Q9NPD8;Q9UKT5;P63208;O95628;Q06587;Q6ZNA4;O00762;Q13490;Q9UJX5;Q12933;Q6W2J9;Q9UPN9;Q8TCJ0;O75150;Q9HC52;Q96FA3;P19474;Q9UKC9;Q13309;Q13114;Q8NEZ5;P78317;Q9UMS4;Q14258;Q99496;Q9UJX4;O94952;Q9NRD1;O95376;Q9NR09;P35226;Q86XK2;P62256;P63146;Q5TA31;Q9H3F6;Q9Y2M5;Q13829;Q92466;Q9NZJ0;Q13233;Q9UM13;Q8TBB1;P40337;P51668;Q9NYG5;O60260;Q8NE65;P62877;P35227;Q96EP1;Q8IUV8}

4028 Pathogen[ P0C206] interacts with 148 human partners: {Q16763;Q9Y2X8;Q9UKC9;Q9UJTT9;Q96AX9;Q9P2N7;Q9UMS4;Q96PU5;Q13829;Q9NS56;O60291;P62877;Q9NPD8;P62253;Q6PCD5;Q8WV22;Q9H4P4;Q9HC52;Q9UPN9;Q9Y4L5;Q13114;Q9NVW2;O43255;Q13263;Q8IYW5;O95376;Q13309;O00308;Q9HAU4;Q9UDY8;Q5JXB2;P68036;O14933;Q8NG27;Q9UK73;Q86XK2;Q14258;Q6W2J9;Q96EP1;Q9UJX5;Q9UJX2;Q6ZNA4;Q8N1E6;O94822;P35226;Q9UKA1;Q8IUQ4;Q05086;Q96J02;Q9UH90;Q96LR5;P62837;P53804;P98170;O15164;O94952;Q8IUD6;O95155;Q8NE65;Q12933;P78317;Q8TCJ0;P49427;Q14669;Q5VTR2;Q13216;Q13233;O95628;Q5TA31;Q8TDB6;Q15386;Q9Y4X5;Q712K3;Q9UJJP4;P51965;Q9BUZ4;Q9NRD1;Q9UKT7;P61088;Q9NYG5;Q9UJX4;Q8WZ19;P60604;P22681;Q9NR09;Q13618;Q96EP0;Q8IUV7;Q9UNE7;P63208;Q14139;P49459;Q96T88;Q06587;Q9P2J3;O60260;Q99728;Q8TBB1;P62256;Q969T4;O00762;Q9H3F6;Q8IUV8;O00463;Q13489;Q9NZJ0;Q9UJX6;Q13356;Q9UKT8;Q96FA3;Q9H832;Q96CA5;Q96PM5;Q9Y2M5;Q9UK99;P61077;Q92466;Q7Z6Z7;Q9Y3I1;P61086;P14373;Q00987;Q9UM13;Q7Z6E9;Q9NTX7;Q9BYM8;Q8NEZ5;Q96B02;Q9Y252;O76064;Q9H469;Q86YT6;Q9UKT5;O95071;P51668;Q6VVB1;O75150;O95714;Q86Y13;Q6Q0C0;Q99496;Q96PU4;Q9NW38;P40337;P63146;P19474;P35227;Q13490}

4029 Pathogen[ P03363] interacts with 139 human partners: {Q14139;O95376;P22681;Q9UJX2;Q9NYG5;Q9NW38;Q13490;Q9Y252;Q8TDB6;Q13309;Q9H832;O94972;Q96EP1;P51965;Q8NE65;P60604;P49459;O95628;O00762;P35227;Q9HAU4;O60291;P14373;Q8NEZ5;Q9UJTT9;Q96EP0;Q86Y13;O14933;Q7Z569;Q9HC52;P61081;Q14258;Q9P2N7;Q13356;Q9ULT8;Q13618;O95155;Q7Z6E9;Q12933;O00463;Q9NTX7;P78317;Q5VTR2;Q99496;Q9UPN9;Q8IYW5;Q8TBB1;Q6VVB1;P63146;Q9UJX5;P49427;P40337;Q5JXB2;Q05086;Q9C040;Q9UJX6;O75150;Q6ZNA4;Q8NG27;Q9UJX4;Q7Z6Z7;P61088;Q9Y3I1;O94952;Q14669;Q9Y4X5;P62877;Q9NR09;Q96FA3;Q96PU5;Q9Y2M5;Q9UK99;Q13489;Q9UKT5;P35226;Q6PCD5;Q9UNE7;P19474;Q9UH90;Q9UKT8;P98170;Q96PM5;P62256;Q969T4;P63279;Q9UKA1;Q9H3F6;O95071;Q86XK2;Q9H4P4;Q15386;Q13829;Q8IUD6;Q9P2J3;Q92466;O00308;Q9UM13;Q9NPD8;O95714;Q9UJJP4;Q5TA31;P53804;Q13114;Q8TCJ0;Q96T88;Q96CA5;Q9Y4L5;Q8WV22;P61077;Q8IUV8;Q9NVW2;Q06587;Q99728;Q9UMS4;O94822;Q13216;Q9Y2X8;P62837;Q9H0M0;Q9UKT7;Q6W2J9;Q8WZ19;Q9BUZ4;Q96PU4;Q9UKC9;O43255;Q9NZJ0;Q8N1E6;Q9NRD1;Q9UK73;P63208;Q13233;Q9UII4;Q9H469;Q7Z7E8;Q5T447;Q96AX9;P68036}

4030 [Cluster 367]GO:0016428+F molecular\_function [name] tRNA (cytosine-5--methyltransferase activity [def] "Catalysis of the reaction

4031 Pathogen[ Q2Q067] interacts with 1 human partners: {Q08J23}

4032 Pathogen[ P0C214] interacts with 1 human partners: {Q08J23}

4033 Pathogen[ P03346] interacts with 1 human partners: {Q08J23}

4034 Pathogen[ Q85601] interacts with 1 human partners: {Q08J23}

4035 Pathogen[ P14079] interacts with 1 human partners: {Q08J23}

4036 Pathogen[ P03383] interacts with 1 human partners: {Q08J23}

4037 Pathogen[ P03410] interacts with 1 human partners: {Q08J23}

4038 Pathogen[ P14075] interacts with 1 human partners: {Q08J23}

4039 Pathogen[ P0C206] interacts with 1 human partners: {Q08J23}

4040 Pathogen[ P03363] interacts with 1 human partners: {Q08J23}

4041 [Cluster 368]GO:0030362+F molecular\_function [name] protein phosphatase type 4 regulator activity [def] "Modulation of the activity of the enzyme protein phosphatase type 4." [GOC

4042 Pathogen[ Q2Q067] interacts with 1 human partners: {Q9NY27}

4043 Pathogen[ P0C214] interacts with 1 human partners: {Q9NY27}

4044 Pathogen[ P03346] interacts with 2 human partners: {Q9NY27;Q8TF05}

4045 Pathogen[ Q85601] interacts with 1 human partners: {Q9NY27}

4046 Pathogen[ P14079] interacts with 2 human partners: {Q8TF05;Q9NY27}

4047 Pathogen[ P03383] interacts with 1 human partners: {Q9NY27}

4048 Pathogen[ P03410] interacts with 2 human partners: {Q8TF05;Q9NY27}

4049 Pathogen[ P14075] interacts with 1 human partners:{Q9NY27}  
4050 Pathogen[ P0C206] interacts with 2 human partners:{Q8TF05;Q9NY27}  
4051 Pathogen[ P03363] interacts with 2 human partners:{Q9NY27;Q8TF05}  
4052 [Cluster 369]GO:0034450+F molecular\_function [name] ubiquitin-ubiquitin ligase activity [def] "Catalysis of the reaction  
4053 Pathogen[ Q2Q067] interacts with 4 human partners:{Q13356;Q9UNE7;Q14139;Q9UMS4}  
4054 Pathogen[ P0C214] interacts with 7 human partners:{Q9UMS4;P61086;O95071;Q14139;Q13356;O95155;Q9UNE7}  
4055 Pathogen[ P03346] interacts with 6 human partners:{O95155;Q9UMS4;Q14139;Q9UNE7;Q13356;O95071}  
4056 Pathogen[ Q85601] interacts with 7 human partners:{Q14139;Q9UMS4;O95155;P61086;Q13356;O95071;Q9UNE7}  
4057 Pathogen[ P14079] interacts with 3 human partners:{Q9UMS4;Q13356;Q14139}  
4058 Pathogen[ P03383] interacts with 3 human partners:{Q13356;Q14139;Q9UMS4}  
4059 Pathogen[ P03410] interacts with 4 human partners:{Q13356;Q9UNE7;Q9UMS4;Q14139}  
4060 Pathogen[ P14075] interacts with 2 human partners:{Q14139;Q9UMS4}  
4061 Pathogen[ P0C206] interacts with 7 human partners:{Q9UMS4;O95155;Q9UNE7;Q14139;Q13356;P61086;O95071}  
4062 Pathogen[ P03363] interacts with 6 human partners:{Q14139;Q13356;O95155;Q9UNE7;O95071;Q9UMS4}  
4063 [Cluster 370]GO:0017022+F molecular\_function [name] myosin binding [def] "Interacting selectively and non-covalently with any part of a myosin complex\_ myosins are any of a superfamily of molecular motor proteins that bind to actin and use the energy of ATP hydrolysis to generate force and movement along actin filaments." [GOC  
4064 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9Y6D6;P61586}  
4065 Pathogen[ P0C214] interacts with 3 human partners:{P68133;P61586;Q9Y6D6}  
4066 Pathogen[ P03346] interacts with 4 human partners:{O14908;Q9Y6D5;Q9Y6D6;P61586}  
4067 Pathogen[ Q85601] interacts with 3 human partners:{P68133;P61586;Q9Y6D6}  
4068 Pathogen[ P14079] interacts with 7 human partners:{Q9Y6D5;P68032;Q9Y6D6;P61586;Q05682;O14908;P68133}  
4069 Pathogen[ P03383] interacts with 2 human partners:{Q9Y6D6;P61586}  
4070 Pathogen[ P03410] interacts with 6 human partners:{Q05682;O14908;P61586;Q9Y6D6;Q9Y6D5;P68133}  
4071 Pathogen[ P14075] interacts with 2 human partners:{Q9Y6D6;P61586}  
4072 Pathogen[ P0C206] interacts with 5 human partners:{Q9Y6D6;P61586;P68133;Q9Y6D5;O14908}  
4073 Pathogen[ P03363] interacts with 3 human partners:{O14908;P68133;Q9Y6D6}  
4074 [Cluster 371]GO:0008420+F molecular\_function [name] CTD phosphatase activity [def] "Catalysis of the reaction  
4075 Pathogen[ Q2Q067] interacts with 4 human partners:{Q8IXW5;Q9Y5B0;O14595;Q9GZU7}  
4076 Pathogen[ P0C214] interacts with 4 human partners:{O14595;Q8IXW5;Q9GZU7;Q9Y5B0}  
4077 Pathogen[ P03346] interacts with 4 human partners:{Q8IXW5;Q9Y5B0;Q9GZU7;O14595}  
4078 Pathogen[ Q85601] interacts with 4 human partners:{Q9GZU7;Q9Y5B0;Q8IXW5;O14595}  
4079 Pathogen[ P14079] interacts with 3 human partners:{Q9Y5B0;Q8IXW5;Q9GZU7}  
4080 Pathogen[ P03383] interacts with 3 human partners:{Q8IXW5;Q9GZU7;Q9Y5B0}  
4081 Pathogen[ P03410] interacts with 3 human partners:{Q9GZU7;Q9Y5B0;Q8IXW5}  
4082 Pathogen[ P14075] interacts with 3 human partners:{Q8IXW5;Q9Y5B0;Q9GZU7}  
4083 Pathogen[ P0C206] interacts with 4 human partners:{Q8IXW5;Q9GZU7;Q9Y5B0;O14595}  
4084 Pathogen[ P03363] interacts with 4 human partners:{Q9Y5B0;Q8IXW5;Q9GZU7;O14595}  
4085 [Cluster 372]GO:0004823+F molecular\_function [name] leucine-tRNA ligase activity [def] "Catalysis of the reaction  
4086 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9P2J5}  
4087 Pathogen[ P0C214] interacts with 2 human partners:{Q15031;Q9P2J5}  
4088 Pathogen[ P03346] interacts with 1 human partners:{Q9P2J5}  
4089 Pathogen[ Q85601] interacts with 1 human partners:{Q9P2J5}  
4090 Pathogen[ P14079] interacts with 2 human partners:{Q9P2J5;Q15031}  
4091 Pathogen[ P03383] interacts with 2 human partners:{Q9P2J5;Q15031}  
4092 Pathogen[ P03410] interacts with 1 human partners:{Q9P2J5}  
4093 Pathogen[ P14075] interacts with 2 human partners:{Q9P2J5;Q15031}  
4094 Pathogen[ P0C206] interacts with 2 human partners:{Q15031;Q9P2J5}  
4095 Pathogen[ P03363] interacts with 2 human partners:{Q9P2J5;Q15031}  
4096 [Cluster 373]GO:0003887+F molecular\_function [name] DNA-directed DNA polymerase activity [def] "Catalysis of the reaction  
4097 Pathogen[ Q2Q067] interacts with 16 human partners:{Q9Y253;Q15054;Q9NRF9;Q8NDF8;Q9UNA4;Q9UBZ9;P49005;Q9BQG0;Q14181;P06746;P56282;Q9HCU8;P54098;P04053;Q9UHN1;Q9NP87}  
4098 Pathogen[ P0C214] interacts with 16 human partners:{Q8NDF8;P06746;P54098;Q9BQG0;Q9UBZ9;P49005;Q9HCU8;Q9UNA4;Q9NRF9;P04053;Q15054;Q9NP87;P56282;Q9Y253;Q14181;Q9UHN1}  
4099 Pathogen[ P03346] interacts with 19 human partners:{Q9Y253;Q7Z5Q5;Q9HCU8;Q5XG87;Q9BQG0;P54098;Q9UNA4;Q9UBZ9;P56282;Q9UHN1;P49005;Q9NR33;Q9NRF9;Q14181;Q8NDF8;P04053;Q9NP87;P06746;Q15054}  
4100 Pathogen[ Q85601] interacts with 19 human partners:{Q9BQG0;P56282;Q9UGP5;P49005;Q15054;Q9NRF9;Q5XG87;P54098;Q9UBZ9;Q9UBT6;Q14181;Q8NDF8;Q9HCU8;P04053;P06746;Q9NP87;Q9UHN1;Q9Y253;Q9UNA4}  
4101 Pathogen[ P14079] interacts with 22 human



4102 partners:{Q9UNA4;Q5QGS0;Q9UGP5;Q9NRG0;P49005;Q5XG87;Q9HCU8;Q9UBZ9;Q15054;Q9NRF9;Q7Z5Q5;P56282;Q9BQG0;Q14181;Q9NP87;P06746;Q9Y253;P04053;P54098;Q9UHN1;Q9UBT6;Q9NR33}  
Pathogen[ P03383] interacts with 12 human

4103 partners:{Q9BQG0;Q9Y253;Q9UHN1;P06746;Q9HCU8;Q14181;Q8NDF8;P49005;P56282;P54098;Q9UBZ9;Q15054}  
Pathogen[ P03410] interacts with 22 human

4104 partners:{Q5QGS0;Q14181;Q9UBT6;P04053;Q9UNA4;P06746;Q9NRG0;P56282;Q7Z5Q5;Q9UGP5;Q9UBZ9;Q9Y253;Q15054;Q9NRF9;Q5XG87;Q9BQG0;Q9NR33;P49005;Q9NP87;Q9UHN1;P54098;Q9HCU8}  
Pathogen[ P14075] interacts with 12 human

4105 partners:{P54098;Q9UBZ9;Q8NDF8;P06746;P49005;Q9BQG0;Q9Y253;Q15054;Q9UHN1;Q9HCU8;P56282;Q14181}  
Pathogen[ P0C206] interacts with 21 human

4106 partners:{Q9Y253;Q5XG87;Q9UHN1;Q9NRF9;Q9NR33;Q9UBT6;Q9UNA4;Q9HCU8;Q7Z5Q5;P06746;P54098;P49005;Q9UGP5;Q15054;P04053;Q9BQG0;Q14181;Q8NDF8;Q9NP87;Q9UBZ9;P56282}  
Pathogen[ P03363] interacts with 17 human

4107 [Cluster 374]GO:0050681+F molecular\_function [name] androgen receptor binding [def] "Interacting selectively and non-covalently with an androgen receptor." [GOC  
4108 Pathogen[ Q2Q067] interacts with 18 human

4109 partners:{Q75925;P06400;P62826;Q13772;P55345;Q14192;Q9UER7;O75928;O94906;P48552;P27797;P78317;P24864;P51532;P50613;Q92993;Q9Y252;Q9UBS8}  
Pathogen[ P0C214] interacts with 18 human

4110 partners:{Q92993;Q13772;O75925;P48552;P50613;P55345;P78317;O94906;Q9UER7;Q9UBS8;Q14192;Q9Y252;P62826;P24864;P27797;P06400;P51532;O75928}  
Pathogen[ P03346] interacts with 21 human

4111 partners:{Q15788;P06400;P51532;Q9P2W1;P24864;O94906;P62826;O43680;O75925;Q14192;P55345;Q9UER7;P78317;Q9UBS8;P27797;P48552;Q92993;Q9Y252;O75593;O75928;Q13772}  
Pathogen[ Q85601] interacts with 18 human

4112 partners:{P78317;O75928;P06400;P62826;Q9UER7;P27797;O94906;P51532;Q14192;Q13772;P50613;Q9Y252;Q9UBS8;P48552;Q92993;O75925;P55345;P24864}  
Pathogen[ P14079] interacts with 17 human

4113 partners:{P48552;Q13772;O94906;O75928;Q14192;P24864;P51532;P50613;P55345;Q9UER7;O43294;Q15788;O75925;Q9UBS8;P78317;P62826;Q92993}  
Pathogen[ P03383] interacts with 17 human

4114 partners:{O75925;Q9UBS8;P78317;Q92993;P06400;O94906;P62826;P50613;Q14192;Q9UER7;Q9Y252;P51532;Q13772;P48552;P24864;P27797;O75928}  
Pathogen[ P03410] interacts with 19 human

4115 partners:{O75925;Q13772;O75928;O43294;P06400;P50613;O94906;Q9UER7;P62826;Q9UBS8;P78317;P51532;P48552;Q92993;P24864;Q14192;P55345;Q5MNZ9;P27797}  
Pathogen[ P14075] interacts with 17 human

4116 partners:{P51532;Q9Y252;P50613;O75925;O94906;Q92993;P27797;O75928;P62826;P78317;P06400;Q13772;Q9UBS8;P48552;Q9UER7;Q14192;P24864}  
Pathogen[ P0C206] interacts with 19 human

4117 partners:{P27797;P51532;O75925;Q9UER7;P62826;Q92993;P78317;P50613;Q9UBS8;O43294;Q13772;O94906;Q14192;P55345;P48552;Q9Y252;P24864;Q15788;P06400}  
Pathogen[ P03363] interacts with 15 human

4118 partners:{Q9Y252;P24864;P51532;P78317;Q9UER7;P06400;P48552;P27797;O75925;Q9UBS8;O94906;P62826;Q92993;O75928;Q14192}  
[Cluster 375]GO:0008263+F molecular\_function [name] pyrimidine-specific mismatch base pair DNA N-glycosylase activity [def] "Catalysis of the removal of mismatched pyrimidine bases in DNA. Enzymes with this activity recognize and remove pyrimidines present in mismatches by cleaving the N-C1' glycosidic bond between the target damaged DNA base and the deoxyribose sugar. The reaction releases a free base and leaves an apyrimidinic (AP) site." [GOC  
4119 Pathogen[ Q2Q067] interacts with 2 human partners:{O95243;Q13569}  
4120 Pathogen[ P0C214] interacts with 2 human partners:{O95243;Q13569}  
4121 Pathogen[ P03346] interacts with 2 human partners:{Q13569;O95243}  
4122 Pathogen[ Q85601] interacts with 2 human partners:{O95243;Q13569}  
4123 Pathogen[ P14079] interacts with 2 human partners:{O95243;Q13569}  
4124 Pathogen[ P03383] interacts with 2 human partners:{O95243;Q13569}  
4125 Pathogen[ P03410] interacts with 2 human partners:{O95243;Q13569}  
4126 Pathogen[ P14075] interacts with 2 human partners:{O95243;Q13569}  
4127 Pathogen[ P0C206] interacts with 2 human partners:{Q13569;O95243}  
4128 Pathogen[ P03363] interacts with 2 human partners:{O95243;Q13569}  
4129 [Cluster 376]GO:0051861+F molecular\_function [name] glycolipid binding [def] "Interacting selectively and non-covalently with a glycolipid, any compound containing one or more monosaccharide residues bound by a glycosidic linkage to a hydrophobic group such as an acylglycerol, a sphingoid, a ceramide (N-acylsphingoid) or a prenyl phosphate." [http  
4130 Pathogen[ Q2Q067] interacts with 2 human partners:{A6NH11;O95397}  
4131 Pathogen[ P0C214] interacts with 2 human partners:{A6NH11;O95397}  
4132 Pathogen[ P03346] interacts with 3 human partners:{O95397;Q5TA50;A6NH11}  
4133 Pathogen[ Q85601] interacts with 1 human partners:{O95397}  
4134 Pathogen[ P14079] interacts with 4 human partners:{A6NH11;Q5TA50;O95397;Q9NZD2}  
4135 Pathogen[ P03383] interacts with 2 human partners:{A6NH11;O95397}

4136 Pathogen[ P03410] interacts with 4 human partners:{Q5TA50;A6NH11;Q9NZD2;O95397}  
4137 Pathogen[ P14075] interacts with 3 human partners:{O95397;A6NH11;Q5TA50}  
4138 Pathogen[ P0C206] interacts with 4 human partners:{O95397;Q9NZD2;A6NH11;Q5TA50}  
4139 Pathogen[ P03363] interacts with 3 human partners:{Q5TA50;O95397;A6NH11}  
4140 [Cluster 377]GO:0008267+F molecular\_function [name] poly-glutamine tract binding [def]  
"Interacting selectively and non-covalently with a polyglutamine tract, i.e. a series of  
consecutive glutamine residues, in a protein." [GOC  
4141 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9P2R6}  
4142 Pathogen[ P0C214] interacts with 1 human partners:{Q9P2R6}  
4143 Pathogen[ P03346] interacts with 1 human partners:{Q9P2R6}  
4144 Pathogen[ Q85601] interacts with 1 human partners:{Q9P2R6}  
4145 Pathogen[ P14079] interacts with 1 human partners:{Q9P2R6}  
4146 Pathogen[ P03383] interacts with 1 human partners:{Q9P2R6}  
4147 Pathogen[ P03410] interacts with 1 human partners:{Q9P2R6}  
4148 Pathogen[ P14075] interacts with 1 human partners:{Q9P2R6}  
4149 Pathogen[ P0C206] interacts with 1 human partners:{Q9P2R6}  
4150 Pathogen[ P03363] interacts with 1 human partners:{Q9P2R6}  
4151 [Cluster 378]GO:0005528+F molecular\_function [name] FK506 binding [def]  
"Interacting selectively and non-covalently with the immunosuppressant FK506." [GOC  
4152 Pathogen[ Q2Q067] interacts with 1 human partners:{O95644}  
4153 Pathogen[ P0C214] interacts with 1 human partners:{O95644}  
4154 Pathogen[ P03346] interacts with 1 human partners:{O95644}  
4155 Pathogen[ Q85601] interacts with 1 human partners:{O95644}  
4156 Pathogen[ P14079] interacts with 1 human partners:{O95644}  
4157 Pathogen[ P03383] interacts with 1 human partners:{O95644}  
4158 Pathogen[ P03410] interacts with 1 human partners:{O95644}  
4159 Pathogen[ P14075] interacts with 1 human partners:{O95644}  
4160 Pathogen[ P0C206] interacts with 1 human partners:{O95644}  
4161 Pathogen[ P03363] interacts with 1 human partners:{O95644}  
4162 [Cluster 379]GO:0008768+F molecular\_function [name] UDP-sugar diphosphatase activity  
[def] "Catalysis of the reaction  
4163 Pathogen[ Q2Q067] interacts with 1 human partners:{O95848}  
4164 Pathogen[ P0C214] interacts with 1 human partners:{O95848}  
4165 Pathogen[ P03346] interacts with 1 human partners:{O95848}  
4166 Pathogen[ Q85601] interacts with 1 human partners:{O95848}  
4167 Pathogen[ P14079] interacts with 1 human partners:{O95848}  
4168 Pathogen[ P03383] interacts with 1 human partners:{O95848}  
4169 Pathogen[ P03410] interacts with 1 human partners:{O95848}  
4170 Pathogen[ P14075] interacts with 1 human partners:{O95848}  
4171 Pathogen[ P0C206] interacts with 1 human partners:{O95848}  
4172 Pathogen[ P03363] interacts with 1 human partners:{O95848}  
4173 [Cluster 380]GO:0004730+F molecular\_function [name] pseudouridylate synthase activity  
[def] "Catalysis of the reaction  
4174 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9Y606}  
4175 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y606}  
4176 Pathogen[ P03346] interacts with 1 human partners:{Q9Y606}  
4177 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y606}  
4178 Pathogen[ P14079] interacts with 1 human partners:{Q9Y606}  
4179 Pathogen[ P03383] interacts with 1 human partners:{Q9Y606}  
4180 Pathogen[ P03410] interacts with 1 human partners:{Q9Y606}  
4181 Pathogen[ P14075] interacts with 1 human partners:{Q9Y606}  
4182 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y606}  
4183 Pathogen[ P03363] interacts with 1 human partners:{Q9Y606}  
4184 [Cluster 381]GO:0032395+F molecular\_function [name] MHC class II receptor activity  
[def] "Combining with an MHC class II protein complex to initiate a change in cellular  
activity." [GOC  
4185 Pathogen[ Q2Q067] interacts with 1 human partners:{Q04695}  
4186 Pathogen[ P0C214] interacts with 1 human partners:{Q04695}  
4187 Pathogen[ P03346] interacts with 1 human partners:{Q04695}  
4188 Pathogen[ Q85601] interacts with 1 human partners:{Q04695}  
4189 Pathogen[ P14079] interacts with 1 human partners:{Q04695}  
4190 Pathogen[ P03383] interacts with 1 human partners:{Q04695}  
4191 Pathogen[ P03410] interacts with 1 human partners:{Q04695}  
4192 Pathogen[ P14075] interacts with 1 human partners:{Q04695}  
4193 Pathogen[ P0C206] interacts with 1 human partners:{Q04695}  
4194 Pathogen[ P03363] interacts with 1 human partners:{Q04695}  
4195 [Cluster 382]GO:0031683+F molecular\_function [name] G-protein beta/gamma-subunit  
complex binding [def] "Interacting selectively and non-covalently with a complex of  
G-protein beta/gamma subunits." [GOC  
4196 Pathogen[ Q2Q067] interacts with 4 human partners:{Q12798;Q8WYR1;P41208;O15182}  
4197 Pathogen[ P0C214] interacts with 3 human partners:{Q12798;Q8WYR1;P41208}  
4198 Pathogen[ P03346] interacts with 4 human partners:{Q8WYR1;P41208;Q12798;O15182}  
4199 Pathogen[ Q85601] interacts with 4 human partners:{O15182;Q12798;Q8WYR1;P41208}  
4200 Pathogen[ P14079] interacts with 4 human partners:{Q8WYR1;Q12798;P41208;O15182}  
4201 Pathogen[ P03383] interacts with 3 human partners:{P41208;Q12798;Q8WYR1}  
4202 Pathogen[ P03410] interacts with 4 human partners:{Q8WYR1;O15182;Q12798;P41208}

4203 Pathogen[ P14075] interacts with 3 human partners:{Q8WYR1;Q12798;P41208}  
4204 Pathogen[ P0C206] interacts with 4 human partners:{O15182;P41208;Q12798;Q8WYR1}  
4205 Pathogen[ P03363] interacts with 4 human partners:{Q8WYR1;P41208;Q12798;O15182}  
4206 [Cluster 383]GO:0003707+F molecular\_function [name] steroid hormone receptor activity  
[def] "Combining with a steroid hormone and transmitting the signal within the cell to  
initiate a change in cell activity or function." [GOC  
4207 Pathogen[ Q2Q067] interacts with 13 human  
partners:{P10827;P10589;P13056;P62508;P10828;P49116;P11473;P28702;P55055;Q15466;P0823  
5;P11474;P22736}  
4208 Pathogen[ P0C214] interacts with 6 human  
partners:{P11474;P13056;P49116;P10828;P62508;Q15466}  
4209 Pathogen[ P03346] interacts with 22 human  
partners:{P10827;P11473;P06401;P08235;P48443;P49116;Q15466;P13056;P10588;P51843;P2870  
2;P22736;O95718;O75469;P62508;P10828;P11474;O00482;P35398;Q13285;P55055;P10589}  
4210 Pathogen[ Q85601] interacts with 14 human  
partners:{P11473;Q15466;P28702;P55055;P22736;P08235;P11474;P10827;O00482;P62508;P4911  
6;P13056;P10828;P10589}  
4211 Pathogen[ P14079] interacts with 19 human  
partners:{P13056;P62508;P55055;P35398;P11473;P10828;P08235;P11474;P22736;P48443;P1082  
7;O95718;O00482;O75469;P28702;P10588;P10589;P49116;Q15466}  
4212 Pathogen[ P03383] interacts with 8 human  
partners:{P49116;P11473;P11474;Q15466;P28702;P10828;P62508;P13056}  
4213 Pathogen[ P03410] interacts with 11 human  
partners:{P10828;P62508;P11473;P22736;P28702;Q15466;P11474;P49116;P10589;P08235;P1305  
6}  
4214 Pathogen[ P14075] interacts with 8 human  
partners:{P11474;P10828;P13056;P49116;P11473;P28702;Q15466;P62508}  
4215 Pathogen[ P0C206] interacts with 20 human  
partners:{P10588;Q15466;P35398;P06401;O75469;P55055;P13056;P49116;P22736;O00482;P1058  
9;O95718;P10828;P62508;P28702;P11474;P11473;P08235;P10827;P48443}  
4216 Pathogen[ P03363] interacts with 13 human  
partners:{P10828;Q15466;P49116;P62508;P11474;P10588;P11473;P28702;P08235;P35398;P1058  
9;P13056;O00482}  
4217 [Cluster 384]GO:0048487+F molecular\_function [name] beta-tubulin binding [def]  
"Interacting selectively and non-covalently with the microtubule constituent protein  
beta-tubulin." [GOC  
4218 Pathogen[ Q2Q067] interacts with 10 human  
partners:{Q9BTW9;P50402;Q6VN20;Q9H2P0;P42704;Q8TCI5;O75381;P60520;Q9UBK9;Q66K74}  
4219 Pathogen[ P0C214] interacts with 10 human  
partners:{P60520;Q9BTW9;P42704;Q8TCI5;O75381;P50402;Q6VN20;Q9UBK9;Q66K74;Q9H2P0}  
4220 Pathogen[ P03346] interacts with 12 human  
partners:{O95166;Q9H2P0;P60520;Q66K74;Q9H0R8;O75381;Q6VN20;P42704;P50402;Q8TCI5;Q9UBK  
9;Q9UBP0}  
4221 Pathogen[ Q85601] interacts with 14 human  
partners:{O95166;Q9UBP0;Q9H0R8;Q66K74;Q9BTW9;Q6VN20;Q8TCI5;P42704;Q9H2P0;P50402;P6052  
0;O75381;Q9UBK9;Q9GZM8}  
4222 Pathogen[ P14079] interacts with 14 human  
partners:{Q6VN20;Q9BTW9;O95166;Q66K74;P42704;Q9H2P0;P60520;Q8TCI5;Q9UBK9;O95292;Q9H0R  
8;Q9GZM8;O75381;P50402}  
4223 Pathogen[ P03383] interacts with 5 human  
partners:{Q8TCI5;O75381;P50402;P42704;Q9UBK9}  
4224 Pathogen[ P03410] interacts with 13 human  
partners:{O95292;Q9GZM8;P60520;Q9UBK9;O75381;O95166;Q6VN20;Q9H0R8;Q9BTW9;P42704;Q66K7  
4;P50402;Q8TCI5}  
4225 Pathogen[ P14075] interacts with 5 human  
partners:{P42704;P50402;O75381;Q9UBK9;Q8TCI5}  
4226 Pathogen[ P0C206] interacts with 15 human  
partners:{Q8TCI5;P50402;Q9UBP0;O75381;Q9BTW9;Q9GZM8;Q66K74;O95292;Q6VN20;P60520;Q9H0R  
8;P42704;Q9UBK9;Q9H2P0;O95166}  
4227 Pathogen[ P03363] interacts with 12 human  
partners:{Q66K74;Q9H2P0;Q8TCI5;P42704;Q9UBK9;P60520;Q9H0R8;O75381;Q9BTW9;P50402;Q6VN2  
0;O95166}  
4228 [Cluster 385]GO:0051400+F molecular\_function [name] BH domain binding [def]  
"Interacting selectively and non-covalently with the Bcl-2 homology (BH) domain of a  
protein. Bcl-2-related proteins share homology in one to four conserved regions  
designated the Bcl-2 homology (BH) domains BH1, BH2, BH3 and BH4. These domains  
contribute at multiple levels to the function of these proteins in cell death and  
survival. Anti-apoptotic members of the Bcl-2 family have four BH domains (BH1-BH4).  
Pro-apoptotic members have fewer BH domains." [PMID  
4229 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UMX3}  
4230 Pathogen[ P0C214] interacts with 1 human partners:{Q9UMX3}  
4231 Pathogen[ P03346] interacts with 1 human partners:{Q9UMX3}  
4232 Pathogen[ Q85601] interacts with 1 human partners:{Q9UMX3}  
4233 Pathogen[ P14079] interacts with 2 human partners:{Q13323;Q9UMX3}  
4234 Pathogen[ P03383] interacts with 1 human partners:{Q9UMX3}  
4235 Pathogen[ P03410] interacts with 2 human partners:{Q9UMX3;Q13323}

4236 Pathogen[ P14075] interacts with 1 human partners:{Q9UMX3}  
4237 Pathogen[ P0C206] interacts with 1 human partners:{Q9UMX3}  
4238 Pathogen[ P03363] interacts with 1 human partners:{Q9UMX3}  
4239 [Cluster 386]GO:0032795+F molecular\_function [name] heterotrimeric G-protein binding [def] "Interacting selectively and non-covalently with a heterotrimeric G-protein." [GOC  
4240 Pathogen[ Q2Q067] interacts with 2 human partners:{Q12798;P41208}  
4241 Pathogen[ P0C214] interacts with 2 human partners:{Q12798;P41208}  
4242 Pathogen[ P03346] interacts with 2 human partners:{P41208;Q12798}  
4243 Pathogen[ Q85601] interacts with 2 human partners:{Q12798;P41208}  
4244 Pathogen[ P14079] interacts with 2 human partners:{Q12798;P41208}  
4245 Pathogen[ P03383] interacts with 2 human partners:{P41208;Q12798}  
4246 Pathogen[ P03410] interacts with 2 human partners:{Q12798;P41208}  
4247 Pathogen[ P14075] interacts with 2 human partners:{Q12798;P41208}  
4248 Pathogen[ P0C206] interacts with 2 human partners:{P41208;Q12798}  
4249 Pathogen[ P03363] interacts with 2 human partners:{P41208;Q12798}  
4250 [Cluster 387]GO:0019964+F molecular\_function [name] interferon-gamma binding [def] "Interacting selectively and non-covalently with interferon-gamma. Interferon-gamma is also known as type II interferon." [GOC  
4251 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9Y2M5}  
4252 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y2M5}  
4253 Pathogen[ P03346] interacts with 1 human partners:{Q9Y2M5}  
4254 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y2M5}  
4255 Pathogen[ P14079] interacts with 1 human partners:{Q9Y2M5}  
4256 Pathogen[ P03383] interacts with 1 human partners:{Q9Y2M5}  
4257 Pathogen[ P03410] interacts with 1 human partners:{Q9Y2M5}  
4258 Pathogen[ P14075] interacts with 1 human partners:{Q9Y2M5}  
4259 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y2M5}  
4260 Pathogen[ P03363] interacts with 1 human partners:{Q9Y2M5}  
4261 [Cluster 388]GO:0016818+F molecular\_function [name] hydrolase activity, acting on acid anhydrides, in phosphorus-containing anhydrides [def] "Catalysis of the hydrolysis of any acid anhydride which contains phosphorus." [GOC  
4262 Pathogen[ Q2Q067] interacts with 7 human partners:{P51531;O95848;P51532;Q12873;Q14839;Q9HBD4;P28370}  
4263 Pathogen[ P0C214] interacts with 9 human partners:{Q14527;Q12873;Q9HBD4;P28370;O60264;O95848;P51531;Q14839;P51532}  
4264 Pathogen[ P03346] interacts with 10 human partners:{Q9HBD4;P51532;Q14527;O95848;O60264;P42285;P28370;Q12873;P51531;Q14839}  
4265 Pathogen[ Q85601] interacts with 9 human partners:{P51531;P51532;Q12873;Q9HBD4;P28370;O95848;O60264;Q14527;Q14839}  
4266 Pathogen[ P14079] interacts with 8 human partners:{P28370;P51532;P51531;O95848;Q12873;O60264;Q14839;Q96FC9}  
4267 Pathogen[ P03383] interacts with 7 human partners:{Q14839;Q9HBD4;P28370;Q12873;P51531;P51532;O95848}  
4268 Pathogen[ P03410] interacts with 9 human partners:{Q12873;O95848;P51532;P51531;Q96FC9;O60264;Q9HBD4;Q14839;P28370}  
4269 Pathogen[ P14075] interacts with 7 human partners:{Q9HBD4;P51532;Q14839;P51531;P28370;O95848;Q12873}  
4270 Pathogen[ P0C206] interacts with 10 human partners:{P51532;P51531;O95848;Q14839;P28370;Q14527;Q9HBD4;Q9BX63;Q12873;O60264}  
4271 Pathogen[ P03363] interacts with 11 human partners:{Q9BX63;P51532;Q14839;O60264;Q14527;Q9HBD4;O95848;Q12873;P28370;P51531;P42285}  
4272 [Cluster 389]GO:0042277+F molecular\_function [name] peptide binding [def] "Interacting selectively and non-covalently with peptides, any of a group of organic compounds comprising two or more amino acids linked by peptide bonds." [GOC  
4273 Pathogen[ Q2Q067] interacts with 11 human partners:{P52948;Q13427;Q9H2P0;P27797;P49356;P48147;P09497;Q08752;P09496;P23284;P62937}  
4274 Pathogen[ P0C214] interacts with 13 human partners:{P30405;Q13427;P23284;P30414;P48147;P45877;P49356;P27797;P09497;P09496;Q08752;P52948;Q9H2P0}  
4275 Pathogen[ P03346] interacts with 11 human partners:{Q9H2P0;P62937;P09496;Q13427;Q08752;P49356;P27797;P09497;P48147;P23284;P52948}  
4276 Pathogen[ Q85601] interacts with 15 human partners:{P30405;P09496;P27797;P48147;Q13427;Q08752;P23284;P52948;Q9H2P0;P49356;P30414;P09497;P19447;P62937;P45877}  
4277 Pathogen[ P14079] interacts with 14 human partners:{O14773;Q08752;P48147;P29144;P62937;Q13427;Q9H2P0;P45877;P49356;P09497;P23284;P19447;P09496;P52948}  
4278 Pathogen[ P03383] interacts with 8 human partners:{P52948;P62937;Q08752;P48147;Q13427;P23284;P09497;P27797}  
4279 Pathogen[ P03410] interacts with 15 human partners:{P09496;Q08752;P49356;P48147;P52948;P62937;P09497;P45877;P19447;Q9BVA1;P23284;P30414;Q13427;P30405;P27797}  
4280 Pathogen[ P14075] interacts with 8 human

4281 partners:{P09497;Q08752;P09496;P23284;P27797;P62937;Q13427;P52948}  
Pathogen[ P0C206] interacts with 14 human  
partners:{P27797;P29144;Q08752;P48147;P09496;P19447;P09497;Q13427;P23284;P45877;Q9H2P  
0;P30405;P49356;P62937}

4282 Pathogen[ P03363] interacts with 8 human  
partners:{P23284;Q13427;P62937;Q9H2P0;Q08752;P27797;P52948;P09497}

4283 [Cluster 390]GO:0016773+F molecular\_function [name] phosphotransferase activity,  
alcohol group as acceptor [def] "Catalysis of the transfer of a phosphorus-containing  
group from one compound (donor) to an alcohol group (acceptor)." [GOC

4284 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9Y4A5;P19367;P32189}  
4285 Pathogen[ P0C214] interacts with 8 human  
partners:{Q14410;Q14409;Q95299;P32189;Q96C11;P19367;Q9Y4A5;Q9NWZ5}

4286 Pathogen[ P03346] interacts with 4 human partners:{P19367;Q9Y4A5;P32189;Q9NWZ5}  
4287 Pathogen[ Q85601] interacts with 3 human partners:{Q9Y4A5;P32189;P19367}  
4288 Pathogen[ P14079] interacts with 7 human  
partners:{Q9Y4A5;Q14410;Q9NWZ5;P32189;Q96C11;Q14409;Q95299}

4289 Pathogen[ P03383] interacts with 4 human partners:{Q9NWZ5;P19367;Q9Y4A5;P32189}  
4290 Pathogen[ P03410] interacts with 7 human  
partners:{Q96C11;Q95299;Q14410;Q9NWZ5;Q9Y4A5;Q14409;P32189}

4291 Pathogen[ P14075] interacts with 5 human  
partners:{Q9NWZ5;P32189;P19367;Q9Y4A5;Q96C11}

4292 Pathogen[ P0C206] interacts with 5 human  
partners:{Q9NWZ5;P19367;P32189;Q9Y4A5;Q96C11}

4293 Pathogen[ P03363] interacts with 2 human partners:{Q9NWZ5;Q9Y4A5}

4294 [Cluster 391]GO:0004596+F molecular\_function [name] peptide alpha-N-acetyltransferase  
activity [def] "Catalysis of the reaction

4295 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9BSU3;P41227}  
4296 Pathogen[ P0C214] interacts with 2 human partners:{P41227;Q9BSU3}  
4297 Pathogen[ P03346] interacts with 2 human partners:{Q9BSU3;P41227}  
4298 Pathogen[ Q85601] interacts with 2 human partners:{P41227;Q9BSU3}  
4299 Pathogen[ P14079] interacts with 2 human partners:{P41227;Q9BSU3}

4300 Pathogen[ P03383] interacts with 2 human partners:{P41227;Q9BSU3}  
4301 Pathogen[ P03410] interacts with 2 human partners:{Q9BSU3;P41227}  
4302 Pathogen[ P14075] interacts with 2 human partners:{P41227;Q9BSU3}  
4303 Pathogen[ P0C206] interacts with 2 human partners:{P41227;Q9BSU3}  
4304 Pathogen[ P03363] interacts with 2 human partners:{P41227;Q9BSU3}

4305 [Cluster 392]GO:0008821+F molecular\_function [name] crossover junction  
endodeoxyribonuclease activity [def] "Catalysis of the endonucleolytic cleavage at a  
junction such as a reciprocal single-stranded crossover between two homologous DNA  
duplexes (Holliday junction)." [EC

4306 Pathogen[ Q2Q067] interacts with 4 human partners:{O43502;Q9BQ83;Q8IY92;Q96QE5}  
4307 Pathogen[ P0C214] interacts with 4 human partners:{Q96QE5;Q9BQ83;O43502;Q8IY92}  
4308 Pathogen[ P03346] interacts with 4 human partners:{O43502;Q96QE5;Q9BQ83;Q8IY92}  
4309 Pathogen[ Q85601] interacts with 4 human partners:{O43502;Q96QE5;Q8IY92;Q9BQ83}  
4310 Pathogen[ P14079] interacts with 3 human partners:{O43502;Q9BQ83;Q8IY92}  
4311 Pathogen[ P03383] interacts with 3 human partners:{Q8IY92;Q9BQ83;Q96QE5}  
4312 Pathogen[ P03410] interacts with 4 human partners:{Q9BQ83;Q96QE5;Q8IY92;O43502}  
4313 Pathogen[ P14075] interacts with 3 human partners:{Q9BQ83;Q96QE5;Q8IY92}  
4314 Pathogen[ P0C206] interacts with 4 human partners:{O43502;Q96QE5;Q9BQ83;Q8IY92}  
4315 Pathogen[ P03363] interacts with 4 human partners:{Q96QE5;Q9BQ83;Q8IY92;O43502}

4316 [Cluster 393]GO:0003705+F molecular\_function [name] sequence-specific distal enhancer  
binding RNA polymerase II transcription factor activity [def] "Functions to initiate or  
regulate RNA polymerase II transcription by binding a distal enhancer region of DNA."  
[GOC

4317 Pathogen[ Q2Q067] interacts with 34 human  
partners:{P27540;Q9UHL9;Q05066;O00470;O14503;P35680;P48380;Q15562;Q01664;P13349;P0815  
1;Q04206;Q9BWX5;Q04727;P17676;P22670;P11831;P15172;Q00577;Q08050;O43524;P55347;Q14938  
;P56693;O95644;P35869;O75030;Q02556;Q86X95;P15336;P22415;Q15853;P49715;P17947}

4318 Pathogen[ P0C214] interacts with 31 human  
partners:{O00470;Q9UHL9;Q04727;P35869;P55347;P15336;P13349;P56693;P15172;P17947;P1183  
1;Q04206;O75030;Q14938;P17676;O14503;Q02556;Q00577;P22670;P05412;Q15853;P27540;P08151  
;P48380;P22415;O95644;P16220;Q15562;Q01664;Q86X95;P18846}

4319 Pathogen[ P03346] interacts with 52 human  
partners:{P85037;P05412;Q9UHL9;Q15562;P58012;P16220;P17676;P15336;Q05066;P11831;P1334  
9;Q00577;Q9BWX5;Q15911;P48380;P20264;P15172;P56693;Q04206;Q08050;P27540;O75030;O00409  
;O95644;P49715;O14503;Q15853;P22670;Q9C0J9;Q02556;O00470;P35680;Q12778;Q01167;P98177;  
Q13516;P55347;Q04727;P17947;Q86X95;P35869;O00482;O75593;O43524;O95343;Q13285;Q01664;Q  
14938;P18846;P22415;P08151;Q9UJU5}

4320 Pathogen[ Q85601] interacts with 36 human  
partners:{Q9UHL9;P08151;P11831;Q15853;P17676;Q02556;Q9BWX5;P15172;P13349;O75030;O1450  
3;P18846;P27540;O95644;P22415;Q00577;P16220;Q04206;Q04727;Q15562;P35680;P05412;O00470  
;P22670;P56693;O00482;P49715;P55347;P17947;Q08050;P35869;P15336;P48380;Q01664;Q14938;  
Q86X95}

4321 Pathogen[ P14079] interacts with 29 human  
partners:{P08151;P35869;Q9BWX5;P13349;Q15853;Q14938;Q15911;P35680;P55347;P48380;O9564  
4;O00482;P49715;P27540;P22670;P15336;Q01664;Q9UHL9;P56693;Q00577;Q15562;Q02556;O14503

4322 Pathogen[ P03383] interacts with 28 human partners: {O00470;Q9UHL9;P11831;P16220;P27540;Q15562;P15172;Q04727;O95644;P22670;P48380;O75030;O14503;P18846;Q01664;P55347;P17676;Q15853;Q00577;Q04206;Q02556;P15336;Q86X95;P35869;P56693;P17947;P22415;P05412}

4323 Pathogen[ P03410] interacts with 29 human partners: {Q04206;P22670;P11831;O00470;P17676;P17947;Q14938;Q9UHL9;O75030;P18846;Q00577;Q02556;O95644;P27540;Q9BWX5;P48380;P22415;Q04727;P16220;P56693;Q15853;P13349;P05412;Q86X95;P55347;Q01664;P35680;P15336;Q15562}

4324 Pathogen[ P14075] interacts with 30 human partners: {Q04727;Q9UHL9;P35869;Q86X95;Q04206;O75030;P05412;Q14938;P22670;P11831;Q15562;O00470;P48380;P15172;Q08050;P56693;P15336;O14503;P27540;P55347;Q02556;Q15853;Q01664;P17947;Q00577;P16220;P22415;P17676;O95644;P18846}

4325 Pathogen[ P0C206] interacts with 38 human partners: {Q9UHL9;Q15911;P16220;P35869;O75030;Q05066;O00470;P05412;Q9C0J9;P15336;Q04727;P49715;P56693;P18846;P48380;O00482;Q14938;Q9BWX5;Q15853;Q02556;Q86X95;P22415;P17676;P13349;P35680;Q04206;P17947;Q15562;P22670;P11831;Q08050;Q01664;P27540;P15172;O95644;P08151;Q00577;P55347}

4326 Pathogen[ P03363] interacts with 44 human partners: {Q86X95;Q15911;Q9UHL9;Q14938;Q04206;Q15853;P27540;P17676;Q13516;P08151;Q15562;Q02556;P17947;Q9C0J9;P16220;P55347;Q04727;O00409;P35869;P13349;Q43524;P15336;Q05066;Q08050;P11831;P56693;P20264;O75030;P18846;Q01167;O00470;P22415;Q9BWX5;O95644;P05412;O95343;P48380;Q00577;Q9UJU5;P15172;Q01664;O14503;P22670;O00482}

4327 [Cluster 394]GO:0005547+F molecular\_function [name] phosphatidylinositol-3,4,5-trisphosphate binding [def] "Interacting selectively and non-covalently with phosphatidylinositol-3,4,5-trisphosphate, a derivative of phosphatidylinositol in which the inositol ring is phosphorylated at the 3', 4' and 5' positions." [GOC

4328 Pathogen[ Q2Q067] interacts with 2 human partners: {P31749;P55895}

4329 Pathogen[ P0C214] interacts with 3 human partners: {P55895;Q9UQC2;P31749}

4330 Pathogen[ P03346] interacts with 6 human partners: {P55895;Q9UQC2;Q8TEW0;Q7Z3T8;P31749;Q9HBF4}

4331 Pathogen[ Q85601] interacts with 4 human partners: {P31749;Q9UQC2;Q9HBF4;P55895}

4332 Pathogen[ P14079] interacts with 4 human partners: {Q8TEW0;Q7Z3T8;Q9HBF4;Q9UQC2}

4333 Pathogen[ P03383] interacts with 2 human partners: {P31749;P55895}

4334 Pathogen[ P03410] interacts with 6 human partners: {Q9UQC2;P31749;P55895;Q9HBF4;Q8TEW0;Q7Z3T8}

4335 Pathogen[ P14075] interacts with 2 human partners: {P31749;P55895}

4336 Pathogen[ P0C206] interacts with 6 human partners: {P31749;Q8TEW0;Q7Z3T8;P55895;Q9UQC2;Q9HBF4}

4337 Pathogen[ P03363] interacts with 3 human partners: {P31749;P55895;Q9UQC2}

4338 [Cluster 395]GO:0005160+F molecular\_function [name] transforming growth factor beta receptor binding [def] "Interacting selectively and non-covalently with the transforming growth factor beta receptor." [GOC

4339 Pathogen[ Q2Q067] interacts with 3 human partners: {Q8WUH2;P84022;Q15796}

4340 Pathogen[ P0C214] interacts with 3 human partners: {P84022;Q15796;Q8WUH2}

4341 Pathogen[ P03346] interacts with 3 human partners: {Q15796;Q8WUH2;P84022}

4342 Pathogen[ Q85601] interacts with 3 human partners: {Q8WUH2;P84022;Q15796}

4343 Pathogen[ P14079] interacts with 1 human partners: {Q8WUH2}

4344 Pathogen[ P03383] interacts with 3 human partners: {P84022;Q15796;Q8WUH2}

4345 Pathogen[ P03410] interacts with 3 human partners: {P84022;Q8WUH2;Q15796}

4346 Pathogen[ P14075] interacts with 3 human partners: {Q15796;Q8WUH2;P84022}

4347 Pathogen[ P0C206] interacts with 3 human partners: {P84022;Q15796;Q8WUH2}

4348 Pathogen[ P03363] interacts with 3 human partners: {Q15796;P84022;Q8WUH2}

4349 [Cluster 396]GO:0003720+F molecular\_function [name] telomerase activity [def] "Catalysis of the reaction

4350 Pathogen[ Q2Q067] interacts with 3 human partners: {O60832;O14746;Q15185}

4351 Pathogen[ P0C214] interacts with 3 human partners: {O14746;O60832;Q15185}

4352 Pathogen[ P03346] interacts with 3 human partners: {Q15185;O60832;O14746}

4353 Pathogen[ Q85601] interacts with 3 human partners: {Q15185;O14746;O60832}

4354 Pathogen[ P14079] interacts with 3 human partners: {O14746;O60832;Q15185}

4355 Pathogen[ P03383] interacts with 3 human partners: {O14746;Q15185;O60832}

4356 Pathogen[ P03410] interacts with 3 human partners: {O14746;O60832;Q15185}

4357 Pathogen[ P14075] interacts with 3 human partners: {O14746;Q15185;O60832}

4358 Pathogen[ P0C206] interacts with 3 human partners: {Q15185;O60832;O14746}

4359 Pathogen[ P03363] interacts with 3 human partners: {O60832;O14746;Q15185}

4360 [Cluster 397]GO:0008081+F molecular\_function [name] phosphoric diester hydrolase activity [def] "Catalysis of the hydrolysis of a phosphodiester to give a phosphomonoester and a free hydroxyl group." [EC

4361 Pathogen[ Q2Q067] interacts with 4 human partners: {P27695;Q9NUW8;Q7Z4H3;P27815}

4362 Pathogen[ P0C214] interacts with 8 human partners: {P27695;Q7Z4H3;P27815;Q9NPB8;Q9Y3Z3;Q07343;O76083;Q9NUW8}

4363 Pathogen[ P03346] interacts with 5 human partners: {Q9Y3Z3;Q9NUW8;Q7Z4H3;P27815;P27695}

4364 Pathogen[ Q85601] interacts with 4 human partners: {Q7Z4H3;P27815;Q9NUW8;P27695}

4365 Pathogen[ P14079] interacts with 7 human

4366 partners:{Q9NPB8;Q9NUJ7;Q9NUW8;Q9Y3Z3;P27695;P27815;Q7Z4H3}  
Pathogen[ P03383] interacts with 2 human partners:{Q9NUW8;P27695}

4367 Pathogen[ P03410] interacts with 6 human  
partners:{Q9NPB8;Q9NUW8;Q7Z4H3;P27695;Q9Y3Z3;P27815}

4368 Pathogen[ P14075] interacts with 2 human partners:{P27695;Q9NUW8}

4369 Pathogen[ P0C206] interacts with 5 human  
partners:{P27695;Q7Z4H3;Q9NUW8;P27815;Q9NPB8}

4370 Pathogen[ P03363] interacts with 4 human partners:{P27815;Q7Z4H3;Q9NUW8;Q9Y3Z3}

4371 [Cluster 398]GO:0051087+F molecular\_function [name] chaperone binding [def]  
"Interacting selectively and non-covalently with a chaperone protein, a class of proteins  
that bind to nascent or unfolded polypeptides and ensure correct folding or transport."  
[http

4372 Pathogen[ Q2Q067] interacts with 23 human  
partners:{Q9BTW9;P04156;Q9HAV7;O95433;O60260;P61604;P50502;Q8IWL3;Q99933;O75347;Q8TAA  
5;Q96A04;P31948;P27797;Q9NQP4;O75190;Q9NZJ4;P62072;Q9Y5J7;O43615;O95817;O15392;O95429  
}

4373 Pathogen[ P0C214] interacts with 25 human  
partners:{O95817;Q9HAV7;O75347;O75190;Q9BTW9;P61604;P31948;Q8IWL3;P62072;Q9NZJ4;Q9993  
3;O43615;P10809;O95429;Q8TAA5;Q96A04;O15392;P04156;P27797;Q9Y5J7;O60260;Q9NQP4;O95433  
;P36957;P50502}

4374 Pathogen[ P03346] interacts with 23 human  
partners:{Q96A04;O15392;O75190;P50502;P61604;O43615;Q9NQP4;Q9Y5J7;P31948;Q9NZJ4;O9543  
3;O75347;Q9HAV7;O95817;P62072;P27797;Q96KC8;O60260;P04156;O95429;Q8TAA5;Q8IWL3;Q99933  
}

4375 Pathogen[ Q85601] interacts with 23 human  
partners:{Q8TAA5;Q9NQP4;O75190;P62072;O95433;P61604;Q96A04;Q9Y5J7;Q9BTW9;P31948;O1539  
2;P27797;Q99933;O75347;Q9HAV7;O43615;O60260;P04156;Q9NZJ4;P50502;Q8IWL3;O95429;O95817  
}

4376 Pathogen[ P14079] interacts with 26 human  
partners:{O43615;Q9BTW9;O60260;O95816;P31948;Q96A04;Q9NZJ4;P62072;O95817;P04156;O9542  
9;Q8IWL3;O15392;O95433;Q9Y5J7;Q9NQP4;O75190;P61604;Q15814;Q9UL15;Q99933;O75347;Q719I0  
;P50502;Q9HAV7;Q8TAA5}

4377 Pathogen[ P03383] interacts with 19 human  
partners:{Q9Y5J7;O95433;P62072;P04156;P50502;P31948;P61604;O43615;Q9HAV7;Q9NQP4;O7519  
0;Q96A04;O60260;O75347;Q8IWL3;Q8TAA5;Q99933;O95429;P27797}

4378 Pathogen[ P03410] interacts with 27 human  
partners:{Q99933;O15392;Q719I0;P62072;Q96A04;P50502;Q9Y5J7;P61604;O95816;Q8TAA5;Q1581  
4;O60260;O95817;Q9NZJ4;O75190;Q9BTW9;O95429;Q8IWL3;O43615;P04156;Q9UL15;P31948;Q9NQP4  
;O75347;Q9HAV7;O95433;P27797}

4379 Pathogen[ P14075] interacts with 19 human  
partners:{Q99933;Q9HAV7;P62072;O75347;P61604;Q8TAA5;P04156;O95433;Q96A04;P50502;P2779  
7;Q9NQP4;O75190;Q9Y5J7;O60260;P31948;Q8IWL3;O43615;O95429}

4380 Pathogen[ P0C206] interacts with 25 human  
partners:{P27797;P04156;Q99933;Q96A04;Q9BTW9;Q9HAV7;Q9NZJ4;Q9Y5J7;Q15814;O95816;O4361  
5;P50502;O95429;O60260;Q8TAA5;O15392;Q719I0;P62072;O95817;Q8IWL3;O75347;P31948;Q9NQP4  
;P61604;O75190}

4381 Pathogen[ P03363] interacts with 20 human  
partners:{O75190;O75347;Q9NZJ4;P50502;P04156;Q96A04;O95817;O43615;O95433;P27797;Q9Y5J  
7;Q15814;Q9BTW9;P31948;Q8TAA5;Q8IWL3;Q9NQP4;O95429;Q99933;P61604}

4382 [Cluster 399]GO:0016922+F molecular\_function [name] ligand-dependent nuclear receptor  
binding [def] "Interacting selectively and non-covalently, in a ligand dependent manner,  
with a nuclear receptor protein." [GOC

4383 Pathogen[ Q2Q067] interacts with 11 human  
partners:{Q15596;Q9HD15;Q969G3;O75528;O14497;O15164;Q14686;Q13901;Q9UIF9;Q6STE5;Q1565  
0}

4384 Pathogen[ P0C214] interacts with 11 human  
partners:{O75528;O14497;Q9HD15;Q6STE5;Q13901;Q14686;Q969G3;Q9UIF9;Q15650;O15164;Q1559  
6}

4385 Pathogen[ P03346] interacts with 12 human  
partners:{Q15788;Q9HD15;Q15596;O75528;Q6STE5;O14497;Q9UIF9;Q969G3;O15164;Q15650;Q1390  
1;Q14686}

4386 Pathogen[ Q85601] interacts with 11 human  
partners:{O75528;Q9UIF9;Q6STE5;O14497;O15164;Q15596;Q14686;Q15650;Q969G3;Q13901;Q9HD1  
5}

4387 Pathogen[ P14079] interacts with 11 human  
partners:{O15164;Q6STE5;Q15596;O75528;Q13901;O14497;Q9UIF9;Q9HD15;Q15788;Q15650;Q1468  
6}

4388 Pathogen[ P03383] interacts with 10 human  
partners:{O14497;O75528;Q15596;Q15650;Q14686;Q6STE5;Q9HD15;Q969G3;Q9UIF9;Q13901}

4389 Pathogen[ P03410] interacts with 10 human  
partners:{Q15650;O14497;Q14686;O75528;Q969G3;Q15596;Q13901;Q9UIF9;Q6STE5;Q9HD15}

4390 Pathogen[ P14075] interacts with 9 human  
partners:{Q14686;Q13901;O14497;O75528;Q15650;Q9UIF9;Q6STE5;Q9HD15;Q15596}

4391 Pathogen[ P0C206] interacts with 12 human  
partners:{O75528;Q6STE5;O15164;Q9HD15;O14497;Q15650;Q9UIF9;Q14686;Q13901;Q15596;Q969G  
3;Q15788}

4392 Pathogen[ P03363] interacts with 10 human partners:{Q6STE5;Q9HD15;Q14497;Q13901;Q15596;Q14686;Q9UIF9;Q969G3;O75528;Q15650}

4393 [Cluster 400]GO:0043141+F molecular\_function [name] ATP-dependent 5'-3' DNA helicase activity [def] "Catalysis of the reaction

4394 Pathogen[ Q2Q067] interacts with 1 human partners:{P38935}

4395 Pathogen[ P0C214] interacts with 1 human partners:{P38935}

4396 Pathogen[ P03346] interacts with 1 human partners:{P38935}

4397 Pathogen[ Q85601] interacts with 1 human partners:{P38935}

4398 Pathogen[ P14079] interacts with 1 human partners:{P38935}

4399 Pathogen[ P03383] interacts with 1 human partners:{P38935}

4400 Pathogen[ P03410] interacts with 1 human partners:{P38935}

4401 Pathogen[ P14075] interacts with 1 human partners:{P38935}

4402 Pathogen[ P0C206] interacts with 1 human partners:{P38935}

4403 Pathogen[ P03363] interacts with 1 human partners:{P38935}

4404 [Cluster 401]GO:0050660+F molecular\_function [name] flavin adenine dinucleotide binding [def] "Interacting selectively and non-covalently with FAD, flavin-adenine dinucleotide, the coenzyme or the prosthetic group of various flavoprotein oxidoreductase enzymes, in either the oxidized form, FAD, or the reduced form, FADH2." [CHEBI

4405 Pathogen[ Q2Q067] interacts with 6 human partners:{P31040;Q9Y2Z2;P29474;Q9NNW7;O95831;Q9UHB4}

4406 Pathogen[ P0C214] interacts with 11 human partners:{P29474;Q9NNW7;Q9Y2Z2;Q9UI17;Q16881;Q86WU2;P09622;Q9UL12;Q9UHB4;P13804;Q96NN9}

4407 Pathogen[ P03346] interacts with 9 human partners:{P31040;Q9UBK8;P29474;Q9UHB4;Q86WU2;Q9Y2Z2;O95831;Q8IWF2;Q9NNW7}

4408 Pathogen[ Q85601] interacts with 5 human partners:{Q9UHB4;O95831;Q9Y2Z2;P31040;P29474}

4409 Pathogen[ P14079] interacts with 9 human partners:{Q9UHB4;Q9Y2Z2;P13804;O95831;Q86WU2;Q9NNW7;P31040;Q9UL12;Q9UI17}

4410 Pathogen[ P03383] interacts with 5 human partners:{P29474;Q9UHB4;P31040;O95831;Q9Y2Z2}

4411 Pathogen[ P03410] interacts with 10 human partners:{P13804;Q9UI17;Q9Y2Z2;P29474;Q9UL12;P31040;O95831;Q9UHB4;Q9NNW7;Q86WU2}

4412 Pathogen[ P14075] interacts with 5 human partners:{P29474;Q9Y2Z2;Q9UHB4;P31040;O95831}

4413 Pathogen[ P0C206] interacts with 7 human partners:{Q9Y2Z2;Q86WU2;Q9NNW7;O95831;P31040;P29474;Q9UHB4}

4414 Pathogen[ P03363] interacts with 5 human partners:{P29474;P31040;Q9UHB4;Q9NNW7;O95831}

4415 [Cluster 402]GO:0003917+F molecular\_function [name] DNA topoisomerase type I activity [def] "Catalysis of a DNA topological transformation by transiently cleaving one DNA strand at a time to allow passage of another strand\_ changes the linking number by +1 per catalytic cycle." [PMID

4416 Pathogen[ Q2Q067] interacts with 1 human partners:{P11387}

4417 Pathogen[ P0C214] interacts with 1 human partners:{P11387}

4418 Pathogen[ P03346] interacts with 1 human partners:{P11387}

4419 Pathogen[ Q85601] interacts with 1 human partners:{P11387}

4420 Pathogen[ P14079] interacts with 2 human partners:{Q13472;Q969P6}

4421 Pathogen[ P03383] interacts with 1 human partners:{P11387}

4422 Pathogen[ P03410] interacts with 2 human partners:{Q13472;P11387}

4423 Pathogen[ P14075] interacts with 1 human partners:{P11387}

4424 Pathogen[ P0C206] interacts with 2 human partners:{P11387;Q13472}

4425 Pathogen[ P03363] interacts with 2 human partners:{P11387;Q13472}

4426 [Cluster 403]GO:0004535+F molecular\_function [name] poly(A)-specific ribonuclease activity [def] "Catalysis of the exonucleolytic cleavage of poly(A) to 5'-AMP." [EC

4427 Pathogen[ Q2Q067] interacts with 4 human partners:{Q96LI5;Q504Q3;O95453;Q9ULM6}

4428 Pathogen[ P0C214] interacts with 4 human partners:{O95453;Q504Q3;Q9ULM6;Q96LI5}

4429 Pathogen[ P03346] interacts with 4 human partners:{Q504Q3;Q9ULM6;O95453;Q96LI5}

4430 Pathogen[ Q85601] interacts with 4 human partners:{Q504Q3;Q96LI5;O95453;Q9ULM6}

4431 Pathogen[ P14079] interacts with 4 human partners:{Q96LI5;O95453;Q9ULM6;Q504Q3}

4432 Pathogen[ P03383] interacts with 3 human partners:{Q9ULM6;O95453;Q96LI5}

4433 Pathogen[ P03410] interacts with 4 human partners:{Q96LI5;Q9ULM6;O95453;Q504Q3}

4434 Pathogen[ P14075] interacts with 3 human partners:{O95453;Q9ULM6;Q96LI5}

4435 Pathogen[ P0C206] interacts with 4 human partners:{Q504Q3;O95453;Q96LI5;Q9ULM6}

4436 Pathogen[ P03363] interacts with 4 human partners:{Q504Q3;O95453;Q9ULM6;Q96LI5}

4437 [Cluster 404]GO:0019887+F molecular\_function [name] protein kinase regulator activity [def] "Modulates the activity of a protein kinase, an enzyme which phosphorylates a protein." [GOC

4438 Pathogen[ Q2Q067] interacts with 3 human partners:{Q6NXT1;P67870;Q9UNN5}

4439 Pathogen[ P0C214] interacts with 3 human partners:{Q9UNN5;Q6NXT1;P67870}

4440 Pathogen[ P03346] interacts with 3 human partners:{Q9UNN5;P67870;Q6NXT1}

4441 Pathogen[ Q85601] interacts with 3 human partners:{Q6NXT1;Q9UNN5;P67870}

4442 Pathogen[ P14079] interacts with 3 human partners:{Q6NXT1;Q9UNN5;P67870}

4443 Pathogen[ P03383] interacts with 2 human partners:{Q9UNN5;P67870}

4444 Pathogen[ P03410] interacts with 3 human partners:{Q9UNN5;Q6NXT1;P67870}

4445 Pathogen[ P14075] interacts with 2 human partners:{Q9UNN5;P67870}



4446 Pathogen[ P0C206] interacts with 3 human partners:{Q9UNN5;Q6NXT1;P67870}  
4447 Pathogen[ P03363] interacts with 3 human partners:{Q9UNN5;Q6NXT1;P67870}  
4448 [Cluster 405]GO:0004888+F molecular\_function [name] transmembrane signaling receptor activity [def] "Combining with an extracellular or intracellular signal and transmitting the signal from one side of the membrane to the other to initiate a change in cell activity." [GOC]  
4449 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UL03}  
4450 Pathogen[ P0C214] interacts with 1 human partners:{Q9UL03}  
4451 Pathogen[ P03346] interacts with 1 human partners:{Q9UL03}  
4452 Pathogen[ Q85601] interacts with 1 human partners:{Q9UL03}  
4453 Pathogen[ P14079] interacts with 1 human partners:{Q9UL03}  
4454 Pathogen[ P03383] interacts with 1 human partners:{Q9UL03}  
4455 Pathogen[ P03410] interacts with 2 human partners:{P20963;Q9UL03}  
4456 Pathogen[ P14075] interacts with 1 human partners:{Q9UL03}  
4457 Pathogen[ P0C206] interacts with 1 human partners:{Q9UL03}  
4458 Pathogen[ P03363] interacts with 1 human partners:{Q9UL03}  
4459 [Cluster 406]GO:0005078+F molecular\_function [name] MAP-kinase scaffold activity [def] "The binding activity of a molecule that functions as a physical support for the assembly of a multiprotein mitogen-activated protein kinase (MAPK) complex. Binds multiple kinases of the MAPKKK cascade, and also upstream signaling proteins, permitting those molecules to function in a coordinated way. Bringing together multiple enzymes and their substrates enables the signal to be transduced quickly and efficiently." [PMID]  
4460 Pathogen[ Q2Q067] interacts with 2 human partners:{Q7Z6J0;Q9UQF2}  
4461 Pathogen[ P0C214] interacts with 2 human partners:{Q7Z6J0;Q9UQF2}  
4462 Pathogen[ P03346] interacts with 2 human partners:{Q7Z6J0;Q9UQF2}  
4463 Pathogen[ Q85601] interacts with 2 human partners:{Q9UQF2;Q7Z6J0}  
4464 Pathogen[ P14079] interacts with 1 human partners:{Q9UQF2}  
4465 Pathogen[ P03383] interacts with 1 human partners:{Q9UQF2}  
4466 Pathogen[ P03410] interacts with 2 human partners:{Q7Z6J0;Q9UQF2}  
4467 Pathogen[ P14075] interacts with 1 human partners:{Q9UQF2}  
4468 Pathogen[ P0C206] interacts with 2 human partners:{Q7Z6J0;Q9UQF2}  
4469 Pathogen[ P03363] interacts with 2 human partners:{Q9UQF2;Q7Z6J0}  
4470 [Cluster 407]GO:0051059+F molecular\_function [name] NF-kappaB binding [def] "Interacting selectively and non-covalently with NF-kappaB, a transcription factor for eukaryotic RNA polymerase II promoters." [GOC]  
4471 Pathogen[ Q2Q067] interacts with 17 human partners:{Q92750;Q86VX2;Q7Z4G1;Q04206;Q13625;Q95999;P06748;Q8TBK2;Q86UE4;P60900;Q9UNN5;Q9HCU9;Q9NWT6;P23396;P25963;P42771;Q96EY1}  
4472 Pathogen[ P0C214] interacts with 17 human partners:{Q13625;P06748;P23396;Q7Z4G1;Q92750;Q04206;Q86UE4;Q9UNN5;Q95999;Q9HCU9;P42771;P25963;P60900;Q86VX2;Q96EY1;Q8TBK2;Q9NWT6}  
4473 Pathogen[ P03346] interacts with 18 human partners:{Q7Z4G1;Q86UE4;P06748;Q86VX2;P25963;Q8TBK2;Q04206;P42771;Q92750;Q95999;Q9UNN5;Q9HCU9;P60900;Q13625;P23396;Q9NWT6;Q96EY1;Q8N9B4}  
4474 Pathogen[ Q85601] interacts with 17 human partners:{P60900;Q8TBK2;P23396;Q9NWT6;Q9UNN5;Q04206;Q9HCU9;Q13625;P42771;P06748;Q86UE4;Q92750;Q86VX2;Q7Z4G1;Q95999;Q96EY1;P25963}  
4475 Pathogen[ P14079] interacts with 15 human partners:{P23396;Q95999;Q13625;Q7Z4G1;Q86VX2;Q9UNN5;P60900;Q9NWT6;Q92750;Q86UE4;P06748;Q9HCU9;Q8TBK2;Q96EY1;P42771}  
4476 Pathogen[ P03383] interacts with 17 human partners:{Q9NWT6;P06748;Q86UE4;P60900;Q13625;Q9UNN5;Q9HCU9;P25963;Q95999;P42771;Q92750;Q04206;Q86VX2;Q8TBK2;P23396;Q96EY1;Q7Z4G1}  
4477 Pathogen[ P03410] interacts with 16 human partners:{Q04206;P42771;Q9UNN5;Q9NWT6;Q92750;P60900;P23396;P06748;Q8TBK2;Q86VX2;Q95999;Q86UE4;Q7Z4G1;P25963;Q13625;Q96EY1}  
4478 Pathogen[ P14075] interacts with 17 human partners:{Q04206;Q86UE4;P60900;P42771;Q7Z4G1;Q8TBK2;P25963;Q92750;Q9UNN5;Q9HCU9;P23396;Q9NWT6;P06748;Q86VX2;Q95999;Q13625;Q96EY1}  
4479 Pathogen[ P0C206] interacts with 17 human partners:{Q9UNN5;Q9HCU9;Q7Z4G1;Q13625;Q95999;P25963;P60900;P42771;Q86VX2;Q92750;Q9NWT6;P23396;Q04206;Q86UE4;Q8TBK2;P06748;Q96EY1}  
4480 Pathogen[ P03363] interacts with 14 human partners:{Q9UNN5;Q86VX2;P23396;Q04206;Q9HCU9;P25963;Q13625;Q86UE4;Q8TBK2;P06748;Q92750;Q7Z4G1;Q96EY1;P42771}  
4481 [Cluster 408]GO:0042054+F molecular\_function [name] histone methyltransferase activity [def] "Catalysis of the reaction  
4482 Pathogen[ Q2Q067] interacts with 9 human partners:{O43463;Q96LA8;Q15910;P55345;Q15022;Q99873;O75530;Q8TEK3;Q86X55}  
4483 Pathogen[ P0C214] interacts with 9 human partners:{Q15022;O75530;Q99873;Q15910;P55345;O43463;Q86X55;Q96LA8;Q8TEK3}  
4484 Pathogen[ P03346] interacts with 9 human partners:{Q99873;O75530;Q8TEK3;O43463;Q15022;P55345;Q15910;Q86X55;Q96LA8}  
4485 Pathogen[ Q85601] interacts with 9 human partners:{Q86X55;O43463;Q15022;Q99873;O75530;Q8TEK3;Q15910;Q96LA8;P55345}  
4486 Pathogen[ P14079] interacts with 7 human

4487 partners:{Q96LA8;Q99873;P55345;O75530;Q8TEK3;Q15910;Q15022}  
Pathogen[ P03383] interacts with 8 human

4488 partners:{O43463;Q86X55;Q15022;Q99873;Q15910;Q8TEK3;Q96LA8;O75530}  
Pathogen[ P03410] interacts with 9 human

4489 partners:{Q96LA8;Q8TEK3;Q86X55;Q15910;O43463;Q15022;Q99873;P55345;O75530}  
Pathogen[ P14075] interacts with 8 human

4490 partners:{Q15910;Q96LA8;Q99873;Q86X55;Q8TEK3;O43463;Q15022;O75530}  
Pathogen[ P0C206] interacts with 9 human

4491 partners:{O75530;Q99873;Q86X55;O43463;Q96LA8;Q15910;Q15022;Q8TEK3;P55345}  
Pathogen[ P03363] interacts with 8 human

4492 partners:{Q15022;Q96LA8;Q15910;Q8TEK3;O75530;O43463;Q86X55;Q99873}  
[Cluster 409]GO:0008725+F molecular\_function [name] DNA-3-methyladenine glycosylase activity [def] "Catalysis of the reaction

4493 Pathogen[ Q2Q067] interacts with 1 human partners:{P29372}  
4494 Pathogen[ P0C214] interacts with 1 human partners:{P29372}  
4495 Pathogen[ P03346] interacts with 1 human partners:{P29372}  
4496 Pathogen[ Q85601] interacts with 1 human partners:{P29372}  
4497 Pathogen[ P14079] interacts with 1 human partners:{P29372}  
4498 Pathogen[ P03383] interacts with 1 human partners:{P29372}  
4499 Pathogen[ P03410] interacts with 1 human partners:{P29372}  
4500 Pathogen[ P14075] interacts with 1 human partners:{P29372}  
4501 Pathogen[ P0C206] interacts with 1 human partners:{P29372}  
4502 Pathogen[ P03363] interacts with 1 human partners:{P29372}

4503 [Cluster 410]GO:0034713+F molecular\_function [name] type I transforming growth factor beta receptor binding [def] "Interacting selectively and non-covalently with a type I transforming growth factor beta receptor." [GOC

4504 Pathogen[ Q2Q067] interacts with 3 human partners:{O15105;O43541;Q15796}  
4505 Pathogen[ P0C214] interacts with 3 human partners:{O15105;Q15796;O43541}  
4506 Pathogen[ P03346] interacts with 3 human partners:{Q15796;O15105;O43541}  
4507 Pathogen[ Q85601] interacts with 3 human partners:{O43541;O15105;Q15796}  
4508 Pathogen[ P14079] interacts with 2 human partners:{O43541;O15105}  
4509 Pathogen[ P03383] interacts with 3 human partners:{O15105;O43541;Q15796}  
4510 Pathogen[ P03410] interacts with 3 human partners:{O43541;O15105;Q15796}  
4511 Pathogen[ P14075] interacts with 3 human partners:{O43541;Q15796;O15105}  
4512 Pathogen[ P0C206] interacts with 3 human partners:{O43541;Q15796;O15105}  
4513 Pathogen[ P03363] interacts with 3 human partners:{O15105;O43541;Q15796}

4514 [Cluster 411]GO:0016757+F molecular\_function [name] transferase activity, transferring glycosyl groups [def] "Catalysis of the transfer of a glycosyl group from one compound (donor) to another (acceptor)." [GOC

4515 Pathogen[ Q2Q067] interacts with 17 human partners:{P07741;Q9H2K2;Q6XQN6;Q460N3;Q460N5;P35573;P46976;P54840;P09874;Q53GL7;P13807;O95271;Q9UKK3;Q9H974;Q9BXR0;P11172;Q14442}

4516 Pathogen[ P0C214] interacts with 24 human partners:{Q04446;O95045;P07741;Q460N5;P11172;Q6XQN6;Q9BXR0;P35573;P46976;Q9Y2G5;Q53GL7;Q16831;O15488;Q9H2K2;Q13126;P54840;Q460N3;Q9UKK3;Q15274;Q9H974;O95271;P43490;P13807;P09874}

4517 Pathogen[ P03346] interacts with 19 human partners:{P13807;Q460N3;Q53GL7;Q9UKK3;P35573;P46976;Q6XQN6;Q9H2K2;P09874;P54840;Q9BXR0;Q9UGN5;O95271;Q9H974;Q14442;Q9Y6F1;P11172;P07741;Q460N5}

4518 Pathogen[ Q85601] interacts with 20 human partners:{Q9BXR0;P09874;P13807;P11172;Q460N3;Q9UKK3;Q9H974;Q6XQN6;Q9H2K2;Q9Y6F1;P46976;P35573;O95045;P07741;Q04446;Q9UGN5;P54840;O95271;Q460N5;Q53GL7}

4519 Pathogen[ P14079] interacts with 36 human partners:{P09874;O43505;Q14442;O95271;Q9UGN5;P13807;P57054;Q16831;P43490;P11172;Q9BT2;Q9BRB3;Q9H2K2;Q9UKK3;Q9NYU1;Q9H488;Q3V5L5;P46976;Q460N3;Q9NYU2;Q9BXR0;Q6XQN6;P35573;O95045;Q2NL67;Q53GL7;Q8NBL1;P54840;Q9Y2G5;Q15274;Q5NDL2;Q9H974;Q9Y6F1;P07741;Q9UBM8;O15488}

4520 Pathogen[ P03383] interacts with 12 human partners:{Q9H974;P13807;P35573;P46976;P09874;Q53GL7;Q9BXR0;P07741;Q9UKK3;P54840;P11172;O95271}

4521 Pathogen[ P03410] interacts with 34 human partners:{P46976;O95045;Q15274;Q9H974;Q3V5L5;P07741;P54840;Q53GL7;Q16831;Q04446;P35573;Q460N3;P11172;Q14442;Q6XQN6;Q9Y6F1;P43490;Q9NYU1;Q9UGN5;O95271;P13807;Q9BRB3;P09874;Q9BT2;O15488;Q2NL67;Q9UKK3;Q460N5;Q9H2K2;Q9Y2G5;Q9H488;Q8NHY0;O43505;Q9NYU2}

4522 Pathogen[ P14075] interacts with 17 human partners:{Q9H974;Q14442;P11172;Q9BXR0;O95045;P46976;P54840;O43505;Q9Y2G5;P35573;P13807;P07741;O95271;Q6XQN6;P09874;Q53GL7;Q9UKK3}

4523 Pathogen[ P0C206] interacts with 27 human partners:{O95271;Q16831;P46976;Q6XQN6;P09874;Q04446;Q460N5;Q14442;Q53GL7;P43490;Q460N3;O95045;P13807;Q9Y6F1;P54840;P11172;Q9UGN5;Q9UKK3;Q9H974;Q15274;P07741;Q9BXR0;Q9H2K2;Q9Y2G5;O43505;O15488;P35573}

4524 Pathogen[ P03363] interacts with 18 human partners:{Q6XQN6;P13807;Q9UGN5;Q9BXR0;Q460N3;P07741;P11172;Q9H2K2;Q9H974;Q9UKK3;O95271;P54840;Q460N5;P09874;P35573;P46976;Q9Y6F1;Q53GL7}

4525 [Cluster 412]GO:0008079+F molecular\_function [name] translation termination factor activity [def] "Functions in the termination of translation." [GOC

4526 Pathogen[ Q2Q067] interacts with 1 human partners:{P62495}  
4527 Pathogen[ P0C214] interacts with 1 human partners:{P62495}  
4528 Pathogen[ P03346] interacts with 1 human partners:{P62495}  
4529 Pathogen[ Q85601] interacts with 1 human partners:{P62495}  
4530 Pathogen[ P14079] interacts with 1 human partners:{P62495}  
4531 Pathogen[ P03383] interacts with 1 human partners:{P62495}  
4532 Pathogen[ P03410] interacts with 1 human partners:{P62495}  
4533 Pathogen[ P14075] interacts with 1 human partners:{P62495}  
4534 Pathogen[ P0C206] interacts with 1 human partners:{P62495}  
4535 Pathogen[ P03363] interacts with 1 human partners:{P62495}  
4536 [Cluster 413]GO:0046982+F molecular\_function [name] protein heterodimerization activity [def] "Interacting selectively and non-covalently with a nonidentical protein to form a heterodimer." [GOC  
4537 Pathogen[ Q2Q067] interacts with 100 human partners:{Q13562;Q9H4I2;P30153;P27540;Q92750;Q9Y6X8;Q9NRF9;Q10587;Q9HBZ2;P15884;Q16594;Q99081;O00470;O00267;Q9UMX3;Q08209;O14503;P13929;Q9UNSL;P35680;P35712;Q01664;Q9NQ87;P13349;Q6VUC0;O96004;Q01196;Q5EE01;P54274;P49116;O60238;Q5VWX1;P49450;O95347;Q8N2Z9;O75486;P06748;Q2M1K9;P52657;A6NLC8;P17676;Q9NR22;P15172;P28702;P11388;Q15744;Q8TAK5;Q14181;P55347;Q15699;Q96BT3;Q99728;Q9UKY1;Q15102;Q01658;Q15543;O75444;P49848;Q15544;O0268;P25208;P35869;Q16514;Q8NHW3;P16890;P61244;Q7Z7C8;P12883;Q9Y6J9;Q15257;P20823;Q12983;O14920;P22415;Q9UKT9;P52655;P19484;P31314;Q9HBM6;Q9NP71;Q8WYK2;Q14683;P63272;Q15853;Q9NUQ3;P55327;Q13952;P15923;Q99814;Q9BX26;P35711;P22736;O15392;P23409;Q06547;Q02078;Q06546;P40424;P53567;P49715}  
4538 Pathogen[ P0C214] interacts with 98 human partners:{P40424;O00470;O00268;P53567;O75444;P32243;O75486;P61244;P35869;Q96BT3;Q99728;Q13952;Q06546;Q9Y6J9;P55347;P30153;Q06547;P52657;Q92934;P31314;P52655;P06748;P19484;P25208;Q99081;O00267;Q5H9I0;P15884;Q8NHW3;P13349;Q92750;Q5EE01;P35711;P15172;Q7Z7C8;Q2M1K9;Q15257;P68402;Q16594;O95347;Q16890;Q9H4I2;P17676;Q9NUQ3;Q10587;P49450;Q6VUC0;Q9HBZ2;Q02078;O14503;Q8N2Z9;Q15102;P13929;P49116;P15923;Q9HBM6;P09104;A6NLC8;Q08209;Q9UH92;P63272;Q15544;Q9UMX3;P49848;Q9UNSL;Q9Y6X8;Q9NP71;P11388;Q9NRF9;Q16514;P12883;Q8TAK5;Q12983;Q9UKT9;Q9BX26;O15392;Q14683;Q15853;O60238;P55327;Q99814;Q01658;O96004;P13533;P27540;Q6GYQ0;P22415;Q15543;Q5VWX1;Q9NQ87;Q01664;Q15699;O14920;P35712;Q9NR22;P54274;P18846;Q14181}  
4539 Pathogen[ P03346] interacts with 125 human partners:{Q99081;Q9Y6J9;Q8N2Z9;Q9UKS7;Q02078;P02549;O15392;P17676;P06748;P19484;P55327;Q8TAK5;Q06547;P11388;P11277;P13929;Q9UKT9;Q9BX26;Q8NFW5;A6NLC8;P13349;Q99728;O60238;Q2M1K9;Q5EE01;P54274;Q9UBV8;P49116;Q7Z7C8;O75486;P25208;P15923;P15172;Q15257;Q9UNSL;P23409;O95347;O00268;P15173;P27540;P20823;P63272;Q9NR33;Q9H165;Q9NRF9;Q12983;P49715;Q92750;O75444;Q14503;Q15853;Q13813;Q14919;P30153;O96004;Q15699;P28702;Q9NP71;O00327;Q16890;P17542;Q9NR22;P22736;Q6VUC0;Q06546;Q15102;Q9H4I2;Q14683;Q9NUQ3;P49848;Q9HBM6;O00470;P52657;Q9NR22;Q5T2T1;Q5VWX1;Q9Y6X8;Q15744;P35680;Q9NQ87;Q16514;Q99814;Q16695;Q5H9I0;Q07820;Q9HBZ2;O00267;Q14181;Q14190;Q6GYQ0;P61244;Q92481;Q13952;P35712;P49450;P55347;Q15700;Q01658;P40424;Q01196;P31314;Q9UKY1;P53567;O14920;Q9UMX3;Q9UH92;P35869;Q08209;Q10587;Q13562;P35711;Q8NHW3;P32243;P52655;Q01664;Q15544;Q96BT3;Q8WYK2;P15884;P18846;Q8IUM7;P22415;Q96SF7;Q16594;Q15543}  
4540 Pathogen[ Q85601] interacts with 105 human partners:{Q16890;P52657;Q15853;Q02078;P17676;P25208;Q6VUC0;Q9NR22;O95347;P19484;P15172;P13533;Q06546;P53567;P13349;Q96BT3;Q7Z7C8;Q2M1K9;Q5EE01;P28702;Q99728;Q5VWX1;O00327;P30153;O00268;O14503;P35712;Q10587;P18846;Q99814;O15392;P27540;Q9UMX3;Q16594;Q9BX26;O96004;Q9NP71;Q13952;Q9Y6J9;Q9NRF9;Q9UH92;Q08209;Q13562;Q9HBM6;Q8NHW3;P22415;Q9H4I2;P23409;O75444;P40424;P13929;P35711;Q14683;Q15699;O14920;P49848;A6NLC8;P22736;Q9Y6X8;Q15744;P35680;Q9NQ87;P11388;P49450;Q16514;O00470;Q9BVA0;P06748;Q01658;Q8N2Z9;P12883;P15923;Q9HBZ2;O00267;Q14181;P32243;Q5H9I0;P61244;P49715;Q06547;P55347;Q12983;Q92750;O75486;P35869;P63272;P52655;Q99081;P31314;P49116;Q9UKY1;Q15543;Q8TAK5;Q15257;O60238;P20823;Q01664;Q15544;Q9UKT9;Q8WYK2;P54274;Q9NUQ3;P15884;Q15102;Q9UNSL}  
4541 Pathogen[ P14079] interacts with 118 human partners:{Q13952;P35711;P54274;P11388;Q8WYK2;Q16890;P55327;Q9NR22;Q5EE01;Q10587;Q16873;P35869;Q02078;Q99814;Q06413;Q06546;Q9Y6J9;O43187;P13349;Q96BT3;Q15853;Q16594;P23409;Q15700;P20292;P53567;Q86YH6;P35680;Q9NRG0;P55347;P13498;Q13323;P01225;Q5T2T1;P16298;Q15699;O15392;P35712;Q5H9I0;Q8TAK5;O96004;P22736;P19484;P15923;Q06547;Q9NUQ3;Q15744;P35611;Q9UKY1;O75952;Q9NRF9;Q5VWX1;Q15543;Q86UW1;O95347;Q92934;O75409;P49715;Q15102;P49848;Q2M1K9;P27540;P63272;Q8N2Z9;P49450;Q92750;Q8NHW3;P28702;O95292;Q9UBV8;Q01664;Q12983;Q9UMX3;P11277;P06748;P12883;O75444;Q14181;Q9UH92;P52657;Q9BX26;P32243;P13929;P29459;Q9UQE7;P15884;Q9HBZ2;Q9NQ87;P30153;Q99081;O14503;P49116;Q9BZX4;Q16514;O60238;Q9H4I2;Q13813;Q9BVA0;Q9Y6X8;O00470;Q14683;O00267;P02549;Q9UNSL;O75486;P61244;Q9NP71;Q8IUM7;Q08209;Q01658;Q9NR33;O00268;Q9HBM6;Q86X10;Q9UKT9;Q6VUC0;A6NLC8;P22415}  
4542 Pathogen[ P03383] interacts with 78 human partners:{Q14683;Q9UNSL;Q9Y6J9;O00470;Q8N2Z9;Q9UH92;P35712;P63272;P06748;P27540;Q15544;Q8TAK5;P32243;Q5H9I0;Q9H4I2;P15172;O75486;P19484;O14920;Q15257;Q06547;P40424;Q14181;P49116;A6NLC8;Q9NUQ3;Q5EE01;P52655;Q9UMX3;Q9NQ87;Q9HBM6;P15923;O95347;O14503;P30153;P18846;O00267;Q12983;Q96BT3;Q9NP71;Q01664;P55347;P25208;Q5VWX1;P52657;O96004;Q13952;Q16594;O60238;Q6VUC0;Q9NR22;P17676;P49848;Q99081;P28702;P35711;Q9Y6X8;O00268;Q16514;P12883;P31314;Q15853;Q92750;P53567;Q9UKT9;Q2M1K9;Q15699;O75444;P61244;P35869;Q01658;Q06546;Q16890;P54274;Q02078;P22415;Q9BX26;Q15543}  
4543 Pathogen[ P03410] interacts with 119 human partners:{O95292;O15392;P35712;P23409;P52655;O14920;O00470;Q8WYK2;O00268;Q12983;Q14181

1;O96004;Q15543;Q08209;P17676;Q9H4I2;Q92750;Q99814;O00267;P63272;O75409;Q86UW1;P54274;Q9UQE7;Q9NQ87;Q96BT3;P53567;P15884;Q15257;O75444;O43187;Q5H9I0;Q9BZX4;Q2M1K9;Q92934;Q9NRG0;P06748;Q5VWX1;P19484;P55157;P31314;Q06547;P15923;P02549;P52657;Q9NR22;Q9UBV8;P18846;P61244;Q5EE01;O75486;Q15700;O95347;Q9HBBZ2;O75952;P27540;Q99081;Q5T2T1;Q9UKT9;Q9BX26;Q9HBM6;A6NLC8;Q16514;Q9UMX3;P49848;Q8TAK5;P25208;Q16873;Q9NP71;Q14683;Q01658;P22415;P12883;Q13952;P22736;P28702;P55327;Q9NRF9;Q9NUQ3;Q9Y6X8;Q15699;Q9Y6J9;Q16594;Q15853;P13349;Q9NR33;P11388;P49450;Q15544;Q6VUC0;Q15102;P55347;P13929;P32243;P30153;Q8NHW3;Q9UNS1;Q01664;P35680;P49116;Q10587;Q02078;Q16890;P13533;Q9UH92;Q15744;P20292;P40424;Q13813;Q86YH6;Q9UKY1;P35611;P11277;P29459;O60238;Q06546;Q9BVA0;Q13323;Q8N2Z9}

4544 Pathogen[ P14075] interacts with 81 human partners: {Q5VWX1;Q15257;A6NLC8;Q9Y6J9;P35869;Q12983;P55327;Q15102;Q9H4I2;P40424;Q14683;P52657;Q9UMX3;Q9NR22;O00470;P53567;P25208;Q01658;O75444;Q5EE01;Q06546;P61244;Q9BX26;P15172;P19484;Q9UH92;Q7Z7C8;Q15544;Q9NQ87;P15923;Q13952;Q16594;Q92750;O95347;O14503;P27540;P55347;Q8N2Z9;Q9NUQ3;P35711;O96004;Q9NP71;O14920;Q15853;P49116;P54274;Q06547;Q01664;P49848;P35712;Q16890;O60238;Q9UKT9;Q9Y6X8;P52655;Q16514;Q96BT3;P06748;Q02078;P30153;O00268;P28702;P15884;Q9UNS1;Q15699;P31314;O75486;P22415;P17676;Q2M1K9;Q14181;Q99081;O00267;P32243;P63272;Q6VUC0;P18846;Q8TAK5;Q5H9I0;Q15543;Q9HBM6}

4545 Pathogen[ P0C206] interacts with 121 human partners: {Q9UNS1;O75486;P53567;Q9NQ87;O75952;Q9BVA0;Q06546;O14920;P31314;Q16514;Q9NP71;Q9UBV8;Q9UH92;Q15543;Q9NUQ3;Q9NRF9;P49848;Q8TAK5;Q02078;P13533;Q9H4I2;Q15544;P30153;Q9NR33;Q15700;P35869;Q15744;O75444;P52657;O00470;Q9UMX3;P52655;O00268;Q9C0J9;Q8WYK2;P23409;Q16890;P55327;P49715;P19484;P18846;Q9Y6J9;P49116;P22736;Q10587;Q15699;Q9BX26;Q9Y6X8;P40424;Q6VUC0;O96004;Q92934;Q15853;O95292;Q5EE01;P54274;O60238;O00327;Q13952;Q12983;Q92750;Q5T2T1;Q14919;P12883;P22415;P35711;Q99081;Q9UQE7;P49450;O95347;P32243;P17676;Q14181;P13349;Q14683;Q01658;P35680;P15923;Q15102;Q96BT3;P15884;P20823;Q99728;Q06547;Q8NHW3;Q9H165;O00267;A6NLC8;O15392;P25208;P61244;Q9NR22;Q2M1K9;Q13422;Q01664;P20292;P28702;P35712;Q9HBM6;Q5H9I0;P11277;P27540;P15172;Q9UKT9;Q08209;P11388;Q7Z7C8;Q8N2Z9;P06748;Q99814;Q8IUM7;P13929;Q9NTJ3;Q15257;Q5VWX1;Q9HBBZ2;P63272;Q9UKY1;Q16594;P55347}

4546 Pathogen[ P03363] interacts with 107 human partners: {Q15699;Q06547;Q8IUM7;Q8NFW5;P35711;Q9UH92;P11277;O14920;Q15853;P27540;P49848;P17676;P49116;P02549;P53567;Q06546;Q13952;Q15744;O95347;Q9NRF9;Q9NQ87;Q16514;Q8NHW3;Q9Y6X8;Q9C0J9;Q8N2Z9;Q9HBBZ2;O00268;Q15700;O00267;Q14181;P32243;Q5T2T1;P55347;Q5H9I0;Q16695;A6NLC8;P06748;Q8WYK2;P35869;P13349;P52657;P61244;P15923;Q2M1K9;Q5EE01;Q9UBV8;P28702;Q15544;P49450;Q9NR22;P54274;P18846;O75444;O00327;Q5VWX1;Q7Z7C8;Q14919;Q9UNS1;P31314;Q9UKY1;O96004;O00470;P22415;Q92750;Q99814;Q8TAK5;Q9UBE0;P35712;Q9HBM6;Q96BT3;P52655;P23409;P63272;Q16890;P19484;Q15257;Q07820;P15884;P40424;Q9UKT9;Q9NUQ3;O75486;Q9NP71;Q9NR33;Q99728;Q99081;Q01658;P30153;Q15543;Q13813;P15172;O60238;P25208;Q9H4I2;Q9UMX3;Q14683;Q01664;P55327;Q9Y6J9;Q9BX26;O14503;Q10587;Q15102;Q16594;Q6VUC0;Q02078}

4547 [Cluster 414]GO:0016018+F molecular\_function [name] cyclosporin A binding [def] "Interacting selectively and non-covalently with cyclosporin A, a cyclic undecapeptide that contains several N-methylated and unusual amino acids." [GOC]

4548 Pathogen[ Q2Q067] interacts with 4 human partners: {Q9UNP9;Q13427;O43447;Q08752}

4549 Pathogen[ P0C214] interacts with 7 human partners: {P30405;Q13427;P30414;P45877;O43447;Q08752;Q9UNP9}

4550 Pathogen[ P03346] interacts with 4 human partners: {O43447;Q13427;Q08752;Q9UNP9}

4551 Pathogen[ Q85601] interacts with 6 human partners: {P30405;Q13427;Q08752;P30414;O43447;P45877}

4552 Pathogen[ P14079] interacts with 4 human partners: {O43447;Q08752;Q13427;P45877}

4553 Pathogen[ P03383] interacts with 4 human partners: {Q9UNP9;Q08752;O43447;Q13427}

4554 Pathogen[ P03410] interacts with 7 human partners: {Q08752;P45877;Q9UNP9;P30414;Q13427;O43447;P30405}

4555 Pathogen[ P14075] interacts with 4 human partners: {Q08752;Q9UNP9;O43447;Q13427}

4556 Pathogen[ P0C206] interacts with 6 human partners: {Q9UNP9;Q08752;Q13427;O43447;P45877;P30405}

4557 Pathogen[ P03363] interacts with 4 human partners: {Q13427;Q08752;O43447;Q9UNP9}

4558 [Cluster 415]GO:0008312+F molecular\_function [name] 7S RNA binding [def] "Interacting selectively and non-covalently with 7S RNA, the RNA component of the signal recognition particle (SRP)." [GOC]

4559 Pathogen[ Q2Q067] interacts with 4 human partners: {P49458;P09132;Q13868;Q9UHB9}

4560 Pathogen[ P0C214] interacts with 4 human partners: {Q13868;Q9UHB9;P49458;P09132}

4561 Pathogen[ P03346] interacts with 4 human partners: {P49458;P09132;Q9UHB9;Q13868}

4562 Pathogen[ Q85601] interacts with 3 human partners: {Q13868;Q9UHB9;P09132}

4563 Pathogen[ P14079] interacts with 4 human partners: {P09132;Q13868;P49458;Q9UHB9}

4564 Pathogen[ P03383] interacts with 4 human partners: {P49458;P09132;Q9UHB9;Q13868}

4565 Pathogen[ P03410] interacts with 4 human partners: {Q9UHB9;Q13868;P09132;P49458}

4566 Pathogen[ P14075] interacts with 4 human partners: {P09132;Q13868;P49458;Q9UHB9}

4567 Pathogen[ P0C206] interacts with 4 human partners: {P09132;Q13868;P49458;Q9UHB9}

4568 Pathogen[ P03363] interacts with 4 human partners: {P09132;Q9UHB9;Q13868;P49458}

4569 [Cluster 416]GO:0030628+F molecular\_function [name] pre-mRNA 3'-splice site binding [def] "Interacting selectively and non-covalently with the pre-mRNA 3' splice site sequence." [GOC]

4570 Pathogen[ Q2Q067] interacts with 2 human partners: {O95391;Q15696}

4571 Pathogen[ P0C214] interacts with 2 human partners: {Q15696;O95391}

4572 Pathogen[ P03346] interacts with 2 human partners: {O95391;Q15696}

4573 Pathogen[ Q85601] interacts with 2 human partners: {O95391;Q15696}

4574 Pathogen[ P14079] interacts with 2 human partners:{Q15696;O95391}

4575 Pathogen[ P03383] interacts with 1 human partners:{O95391}

4576 Pathogen[ P03410] interacts with 2 human partners:{Q15696;O95391}

4577 Pathogen[ P14075] interacts with 1 human partners:{O95391}

4578 Pathogen[ P0C206] interacts with 2 human partners:{Q15696;O95391}

4579 Pathogen[ P03363] interacts with 2 human partners:{O95391;Q15696}

4580 [Cluster 417]GO:0004470+F molecular\_function [name] malic enzyme activity [def]  
"Catalysis of the oxidative decarboxylation of malate with the concomitant production of pyruvate." [ISBN

4581 Pathogen[ Q2Q067] interacts with 1 human partners:{P40925}

4582 Pathogen[ P0C214] interacts with 2 human partners:{P48163;Q16798}

4583 Pathogen[ P03346] interacts with 1 human partners:{P40925}

4584 Pathogen[ Q85601] interacts with 1 human partners:{P40925}

4585 Pathogen[ P14079] interacts with 1 human partners:{P40925}

4586 Pathogen[ P03383] interacts with 1 human partners:{P40925}

4587 Pathogen[ P03410] interacts with 1 human partners:{P40925}

4588 Pathogen[ P14075] interacts with 1 human partners:{P40925}

4589 Pathogen[ P0C206] interacts with 1 human partners:{P40925}

4590 Pathogen[ P03363] interacts with 1 human partners:{P40925}

4591 [Cluster 418]GO:0017080+F molecular\_function [name] sodium channel regulator activity [def]  
"Modulates the activity of a sodium channel." [GOC

4592 Pathogen[ Q2Q067] interacts with 3 human partners:{Q96PU5;Q9HD47;Q04917}

4593 Pathogen[ P0C214] interacts with 3 human partners:{Q04917;Q9HD47;Q96PU5}

4594 Pathogen[ P03346] interacts with 4 human partners:{Q96NL6;Q96PU5;Q9HD47;Q04917}

4595 Pathogen[ Q85601] interacts with 3 human partners:{Q9HD47;Q96PU5;Q04917}

4596 Pathogen[ P14079] interacts with 3 human partners:{Q96NL6;Q04917;Q9HD47}

4597 Pathogen[ P03383] interacts with 1 human partners:{Q9HD47}

4598 Pathogen[ P03410] interacts with 3 human partners:{Q04917;Q9HD47;Q96NL6}

4599 Pathogen[ P14075] interacts with 1 human partners:{Q9HD47}

4600 Pathogen[ P0C206] interacts with 4 human partners:{Q96PU5;Q96NL6;Q04917;Q9HD47}

4601 Pathogen[ P03363] interacts with 3 human partners:{Q9HD47;Q96PU5;Q04917}

4602 [Cluster 419]GO:0031435+F molecular\_function [name] mitogen-activated protein kinase kinase kinase binding [def]  
"Interacting selectively and non-covalently with a mitogen-activated protein kinase kinase kinase, any protein that can phosphorylate a MAP kinase kinase." [GOC

4603 Pathogen[ Q2Q067] interacts with 4 human partners:{Q12933;Q9UQF2;P60953;P15923}

4604 Pathogen[ P0C214] interacts with 4 human partners:{P60953;P15923;Q12933;Q9UQF2}

4605 Pathogen[ P03346] interacts with 3 human partners:{P15923;P60953;Q9UQF2}

4606 Pathogen[ Q85601] interacts with 4 human partners:{Q9UQF2;Q12933;P15923;P60953}

4607 Pathogen[ P14079] interacts with 3 human partners:{Q9UQF2;P15923;Q12933}

4608 Pathogen[ P03383] interacts with 4 human partners:{P60953;P15923;Q9UQF2;Q12933}

4609 Pathogen[ P03410] interacts with 4 human partners:{P15923;Q12933;P60953;Q9UQF2}

4610 Pathogen[ P14075] interacts with 4 human partners:{P60953;P15923;Q12933;Q9UQF2}

4611 Pathogen[ P0C206] interacts with 4 human partners:{Q12933;Q9UQF2;P15923;P60953}

4612 Pathogen[ P03363] interacts with 4 human partners:{Q9UQF2;Q12933;P15923;P60953}

4613 [Cluster 420]GO:0004359+F molecular\_function [name] glutaminase activity [def]  
"Catalysis of the reaction

4614 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9UI32;O94925}

4615 Pathogen[ P0C214] interacts with 2 human partners:{Q9UI32;O94925}

4616 Pathogen[ P03346] interacts with 2 human partners:{Q9UI32;O94925}

4617 Pathogen[ Q85601] interacts with 2 human partners:{O94925;Q9UI32}

4618 Pathogen[ P14079] interacts with 2 human partners:{O94925;Q9UI32}

4619 Pathogen[ P03383] interacts with 1 human partners:{O94925}

4620 Pathogen[ P03410] interacts with 2 human partners:{O94925;Q9UI32}

4621 Pathogen[ P14075] interacts with 1 human partners:{O94925}

4622 Pathogen[ P0C206] interacts with 2 human partners:{Q9UI32;O94925}

4623 Pathogen[ P03363] interacts with 2 human partners:{O94925;Q9UI32}

4624 [Cluster 421]GO:0016597+F molecular\_function [name] amino acid binding [def]  
"Interacting selectively and non-covalently with an amino acid, organic acids containing one or more amino substituents." [GOC

4625 Pathogen[ Q2Q067] interacts with 4 human partners:{Q15046;P34896;O95865;P30047}

4626 Pathogen[ P0C214] interacts with 7 human partners:{P00480;P34897;O95865;P34896;P49588;Q15046;P30047}

4627 Pathogen[ P03346] interacts with 2 human partners:{P30047;O95865}

4628 Pathogen[ Q85601] interacts with 5 human partners:{P00480;Q15046;P30047;P34896;O95865}

4629 Pathogen[ P14079] interacts with 8 human partners:{P48775;P34897;Q15046;P00480;P49588;P30047;O95865;P34896}

4630 Pathogen[ P03383] interacts with 4 human partners:{O95865;P34896;Q15046;P30047}

4631 Pathogen[ P03410] interacts with 8 human partners:{P30047;P49588;O95865;P00480;P48775;Q15046;P34897;P34896}

4632 Pathogen[ P14075] interacts with 4 human partners:{P34896;O95865;P30047;Q15046}

4633 Pathogen[ P0C206] interacts with 6 human partners:{P34897;O95865;P30047;P34896;P00480;Q15046}

4634 Pathogen[ P03363] interacts with 2 human partners:{O95865;P30047}

4635 [Cluster 422]GO:0042803+F molecular\_function [name] protein homodimerization activity

- [def] "Interacting selectively and non-covalently with an identical protein to form a homodimer." [GOC]
- 4636 Pathogen[ Q2Q067] interacts with 144 human  
partners: {P49454; Q9H4I2; Q9NQG7; Q9UL45; Q9Y6X8; Q9H008; Q93009; Q10587; A0AVK6; O75340; Q9HAV7; Q9C005; O95684; O14503; Q13485; P13929; Q9UNSL; P35680; P13056; Q15554; Q99497; P30793; Q01664; Q9NQ87; Q15697; Q6VUC0; O96004; Q01196; P05813; Q05516; P54274; O60543; O60238; P55345; O60930; Q13257; Q86XR8; A6NFD8; P07900; Q15633; P53672; P06748; Q9UER7; Q03933; Q7L804; P02511; Q2M1K9; P52657; Q8TAA5; P17676; Q9NVK5; P08047; Q8NF91; P11831; Q9NR22; P11388; Q8IXQ5; Q15744; O43399; O15405; Q6ICB4; Q8TAK5; Q99966; Q13137; Q9UII2; Q9HB71; Q92748; Q99728; Q14653; P34896; O96017; P84022; Q99856; P31949; P54840; Q96FQ6; Q12904; Q96PM5; Q9GZV5; O75444; Q5JR59; Q16719; Q9NWT6; Q9BUL8; P08697; O14746; Q8NHW3; Q16890; P61244; Q96BY2; P12883; Q86VE0; O43809; Q9H7L9; O76064; P62072; Q15257; Q15466; P19838; Q9Y697; Q9NNW7; P20823; Q9C035; Q9Y5J7; P28698; Q12983; Q14686; P22415; O75150; Q9UKT9; Q9UNE7; Q6PI48; O75154; Q495M9; Q9NP71; Q9Y2G2; Q86U70; Q03393; P35579; Q49AM1; Q15853; P55327; P49589; O14558; P23497; P15923; Q9NVV4; P23297; Q9HC16; Q8N668; P42224; P22736; Q86X55; O15392; P18124; Q9UKT5; O43708; P09234; P53567; P49715; Q15276; P28715; Q03112; P23025}
- 4637 Pathogen[ P0C214] interacts with 162 human  
partners: {Q9NQG7; P53567; O75444; Q6ICB4; P08697; P09417; Q13257; P49589; O75874; Q96PM5; P61244; P11413; Q12904; Q15697; A0AVK6; Q9NPP4; P53672; Q8N335; O14746; Q99728; Q9HAV7; O95684; P19838; Q96BY2; P52657; P02511; O60543; P06748; Q15554; P23025; Q8NHW3; Q9C035; Q99856; Q03112; Q495M9; Q9NNW7; P84022; P29401; Q9GZV5; P11831; Q2M1K9; P42224; Q9BUL8; Q49AM1; P05813; Q99497; Q15257; Q8N668; O75340; P20585; P68402; P55345; Q14686; Q9Y2G2; Q16890; Q9H4I2; P17676; Q03933; Q5JR59; Q10587; P62072; Q7L804; Q6VUC0; O75223; O14503; P28698; Q15633; P50747; P13056; Q99966; P28715; Q86VE0; Q13137; Q9HC16; P13929; Q03393; P30793; O43809; Q96AT9; Q9UII2; Q8NF91; P15923; Q9Y697; Q9UER7; O96017; P34896; P26639; P09104; Q86U70; Q86XR8; Q86XE5; Q13485; Q9C005; Q9UH92; Q9UL45; Q9UNSL; P19623; O60930; Q9Y6X8; Q9NP71; P11838; Q93009; Q9Y2G2; Q8TAA5; Q14653; Q9NVK5; Q8IXQ5; P12883; Q9HD26; Q8TAK5; Q12983; Q9UKT9; P23497; O15392; P05412; Q15853; P31949; O60238; P54840; Q9Y5J7; P55327; O14558; O75150; Q86WV6; Q6PI48; O96004; P13533; Q15274; Q86X55; Q9H008; P09234; P22415; P35520; O43708; Q96FQ6; P36551; P49454; Q92748; Q9NVV4; Q9UNE7; Q9NQ87; O76064; Q01664; P31939; P23297; P18124; Q9HB71; P08047; Q05516; Q9NR22; O15405; Q15466; P54274; Q16719; O75154; Q9Y2Z4; Q9H7L9; Q9UKT5; Q16773; O43399; Q9NWT6; P21695}
- 4638 Pathogen[ P03346] interacts with 171 human  
partners: {Q9NQG7; P05412; Q9UKS7; O75592; Q93009; Q86U70; P28715; O14908; O76064; Q99966; Q96FQ6; P07900; Q7RTS1; O96017; Q86XR8; A6NFD8; Q9C005; O15392; O75150; O95684; P17676; P06748; P55327; Q5JR59; Q8TAK5; P11831; P11388; Q15554; P13929; O60930; Q9UKT9; Q8N668; Q8NFW5; P23297; P35579; Q99728; Q9GZV5; Q03933; O60238; Q2M1K9; P54274; Q15466; Q9P2W1; Q15633; Q8IXQ5; P15923; Q15257; Q96PM5; Q9UNSL; Q9Y5J7; Q9NVK5; Q99856; Q86WG5; P28698; P13056; Q9C035; P06703; Q92748; P20823; Q9Y697; Q9H165; Q96BY2; Q12983; Q03393; P49715; O75444; P08047; O14503; Q15853; Q9Y371; P20132; Q13137; Q9HAV7; O96004; Q6ZPB5; P51843; Q9NP71; Q9UII2; Q16890; P84022; Q12904; Q9HB71; Q9C009; P02511; Q7L804; Q9NPP4; O75340; P22736; Q8N4B1; Q6VUC0; Q9UNH7; O94972; Q86VE0; Q9HD26; Q9H4I2; Q9UKT5; Q9UNE7; O75569; Q03112; P20585; O14746; Q9NVV4; P55345; P52657; Q9NR22; Q9Y6X8; Q15744; Q9UER7; P35680; Q9NQ87; P42224; Q16719; P62072; P63316; Q9UL45; Q14653; Q99497; P49589; O43708; P30622; O43809; Q05516; P61244; Q92481; Q13516; P54840; Q9H7L9; Q86X55; P05813; Q6PI48; Q01196; P23025; P19838; P23497; Q13485; Q86YS3; P53567; Q9NWT6; Q9H8V3; Q9Y2G2; Q9UH92; O43399; O75154; Q15697; O14558; Q6ICB4; Q9BZR9; Q10587; Q8NF91; A0AVK6; O96011; Q49AM1; Q8NHW3; O60543; P09234; Q8TAA5; P53672; Q9BUL8; Q01664; Q495M9; P31949; O15405; Q9H008; P18124; Q13257; P49454; Q15276; P22415; Q14686; Q96SF7; Q9NNW7}
- 4639 Pathogen[ Q85601] interacts with 147 human  
partners: {Q16890; Q9NQG7; P52657; Q96FQ6; Q99497; P49454; P28698; P09234; Q86WV6; P11831; Q15853; P17676; Q6VUC0; P23025; O75154; P26639; O43708; Q8TAA5; Q9NR22; P53672; O96017; Q93009; Q15466; Q86X55; Q7L804; O95684; P13533; P49589; Q86U70; Q15554; P35579; P53567; Q86YS3; Q9BUL8; P62072; Q03933; Q16719; Q9HC16; Q2M1K9; Q99966; Q03112; Q9Y697; P30622; Q9NWT6; Q96BY2; Q96PM5; Q9UER7; Q99728; Q9Y5J7; Q9Y2G2; O14503; Q10587; Q9GZV5; Q9BZR9; Q49AM1; O15392; P23297; O96004; O15405; Q9NP71; Q9H008; P08697; P30793; P08047; Q13257; Q9UH92; O43399; P28715; Q8NHW3; Q13137; P22415; Q9NVK5; Q14686; Q9H4I2; Q9UII2; Q86XR8; O75444; Q14653; O76064; P34896; O60543; Q8IXQ5; Q9HD26; P13929; A6NFD8; Q9C005; P02511; Q6ICB4; P20585; P22736; Q15744; Q15744; P35680; P05412; Q9NQ87; P11388; Q9HAV7; Q8N668; P42224; P06748; P12883; P15923; P07900; Q15633; O75340; Q9C035; Q05516; O75150; P61244; P84022; Q86VE0; P49715; Q5JR59; O14746; P31949; Q12983; Q6PI48; P54840; O60930; P13056; Q9NVV4; Q8TAK5; Q15697; O14558; Q15257; Q8NF91; Q9H7L9; O60238; A0AVK6; P19838; P20823; Q9UKT5; Q9UNE7; Q13485; Q9UNH7; Q9HB71; Q01664; Q9UKT9; Q495M9; Q99856; P18124; P54274; O43809; Q92748; P55345; Q9UNSL; P05813}
- 4640 Pathogen[ P14079] interacts with 180 human  
partners: {P04083; O43809; Q9NQG7; O75192; P54274; P11388; P35579; O75223; P13056; Q7L804; Q9UKT5; O14746; P20585; P26639; Q9UNH7; P09327; P05813; Q16890; P55327; Q9NR22; Q10587; P28715; Q9C005; Q9GZV5; O43187; Q14653; Q9C035; Q15853; O95684; P62072; P20132; P20292; P53567; P31939; P35680; O60543; Q49AM1; P02511; Q6ZPB5; O15405; Q86U70; Q9UII2; Q15276; P31949; Q99497; O15392; Q9H008; Q15070; P29401; Q99966; Q9HC16; Q05516; Q8TAK5; O96004; Q92748; P22736; Q99856; P51606; O43708; Q86YS3; O75569; Q9BUL8; Q9Y5J7; P18124; Q9Y371; P15923; P30793; Q03933; P23025; P23497; Q15744; P06280; P35611; P28698; Q9HD26; Q9HB71; P55345; P49589; O96011; Q9NNW7; Q14353; Q86UW1; O00519; Q96BY2; Q9UER7; Q16719; Q9UL45; Q7RTS1; Q86WV6; Q9NWT6; P49715; O75340; Q15075; O14558; Q2M1K9; Q13257; Q5VZ72; Q8N4B1; P11686; Q9Y697; Q9NVV4; Q8NHW3; Q15697; P07900; O95292; Q9H8V3; Q01664; O76027; Q12983; Q8N668; Q9NVK5; Q8NBK3; Q8IW40; P23297; P06748; P12883; P10620; O75444; Q9NSU2; Q13137; Q9UH92; P52657; Q9Y2Z4; P42224; Q86WG5; Q86VE0; Q15554; P13929; Q9Y2G2; P17050; Q6ICB4; P53602; Q495M9; P19623; P49454; P53672; O75154; P09234; P21695; Q9NQ87; Q5JR59; Q9NNW5; Q12904; P06703; Q03393; O14503; O43399; A0AVK6; P52701; Q8NF91; P05412; Q15466; Q9BZX4; Q86XR8; P36551; Q9H7L9; O60930; Q6PI48; P54840; O60238; Q86XE5; Q9H4I2; Q9Y6X8; Q9UNSL; Q9Y239; Q15274; A6NFD8; P61244; O14908; Q9NP71; Q14686; P30622; Q9UKT9; P34896; P43320; Q6VUC0; Q9HAV7; Q9NPP4; P22415; Q8TAA5}

- 4641 Pathogen[ P03383] interacts with 113 human partners: {Q9UNS1;Q13257;Q9NQG7;Q9NVV4;Q7L804;P49454;Q9Y5J7;Q86XR8;Q5JR59;P11831;Q9UH92;Q13485;Q12904;Q14653;P08047;Q9NWT6;P06748;O60543;Q8TAK5;Q9H4I2;O95684;P62072;Q86U70;Q15257;Q9HD26;Q15554;Q8N668;P23297;P34896;P49589;Q9H7L9;P18124;Q86X55;Q14686;P08697;Q9HAV7;P02511;O43399;Q9NQ87;P15923;O14503;O15405;Q05516;P28698;Q86VE0;P07900;Q12983;Q9Y697;Q9NP71;Q01664;Q6ZPB5;Q16719;P52657;Q13137;O96004;O14558;Q03112;Q9UII2;P84022;Q9HB71;O60238;Q9C035;Q6VUC0;Q9NR22;Q9C005;P53672;Q9UKT5;P17676;P23025;Q15466;O14746;Q96PM5;Q15697;Q9Y2Z4;Q9Y6X8;Q9UER7;P12883;Q8TAA5;Q9Y2G2;Q15853;O43809;Q92748;P23497;Q9BUL8;O60930;Q6PI48;P53567;Q9UKT9;P54840;P35579;Q99856;Q2M1K9;O75444;O75150;P61244;P19838;P05813;Q49AM1;P09234;P13056;Q9GZV5;Q16890;O75154;A0AVK6;P54274;Q15276;Q15633;P22415;Q96BY2;Q96017;Q9H008;Q03933;P05412}
- 4642 Pathogen[ P03410] interacts with 186 human partners: {P84022;O75192;O95684;Q9NQG7;O43399;O95292;O15392;P23025;P11831;Q7L804;P53602;Q15274;P43320;P19838;O00519;O75154;Q13137;Q5JR59;Q9HB71;Q03112;P51606;Q9Y2G2;P62072;P20585;Q15697;Q5VZ72;Q14353;Q9Y239;Q15633;Q99497;P30622;Q12983;Q9NWT6;O96004;Q49AM1;P20963;Q15554;P17676;P54840;P49589;Q9NWW5;Q9H4I2;Q8N4B1;O14746;Q86UW1;P54274;Q495M9;Q9Y5J7;Q14686;Q9NQ87;Q9BUL8;P18124;O76027;P53567;O15405;Q9NVK5;Q16719;Q8IXQ5;Q15257;Q14653;O75444;O43187;Q8TAA5;O96011;Q96BY2;Q86X55;Q9BZX4;O14908;Q9UKT5;Q2M1K9;P35579;Q7R7S1;A6NFD8;P20132;P07900;Q9NPP4;Q86VE0;P31949;P06748;Q9Y697;Q9NSU2;P30793;P19623;P15923;P28715;Q9NVV4;Q92748;P52657;Q9NR22;Q03933;P36551;P61244;Q12904;P06703;Q9UL45;O75569;Q9C005;O60930;P49454;Q9GZV5;Q9UNH7;Q9HD26;O43809;O43708;Q9UII2;Q9HC16;Q86YS3;Q9UKT9;Q9C035;Q9UNE7;O75150;P52701;Q9UER7;P26639;O14558;P11686;P08697;Q8TAK5;P02511;Q86U70;Q9NP71;P22415;Q13485;P12883;P22736;P55809;Q9H7L9;Q9Y371;P55327;Q15466;O96017;Q9Y6X8;P31939;Q86XE5;Q15853;Q9H008;Q6ICB4;P05412;P05813;P09234;P11388;Q6VUC0;P13929;Q8IW40;Q8NHW3;Q9UNS1;Q01664;Q6ZPB5;P35680;Q9Y2Z4;P23297;P28698;Q10587;Q16890;P63316;Q86VW6;O60543;P08047;P13533;Q99856;Q9HAV7;O75340;O75223;Q15070;Q9H8V3;Q9UH92;Q15744;P20292;Q03393;Q15517;Q6PI48;Q8N668;P35611;P34896;O60238;A0AVK6;P53672;Q15276;P55345;P21695;Q86WG5;P13056;Q13257;Q99966;Q8NF91;Q9NNW7}
- 4643 Pathogen[ P14075] interacts with 118 human partners: {Q9Y2Z4;Q9NQG7;Q96BY2;Q15257;Q9GZV5;Q9HAV7;Q12983;Q86U70;Q96PM5;Q16719;P23497;P55327;O43809;Q9H4I2;Q9BUL8;O95684;P52657;O14746;P23025;P62072;P05412;Q9NR22;P11831;Q15554;Q15697;Q86XE5;P34896;P53567;Q14686;P53672;O75444;Q9NVV4;P61244;P28698;P09234;Q8TAA5;Q03933;P05813;Q13257;O60930;Q86VE0;Q9UH92;Q15070;Q9HD26;Q8N668;Q9NQ87;P54840;P15923;P18124;Q99856;P13056;O14503;Q92748;Q5JR59;Q13137;O96004;Q9UKT5;Q13485;P07900;Q9NP71;Q9UII2;Q15853;P54274;Q14653;Q01664;Q86XR8;O96017;Q7L804;Q12904;Q9C005;Q86X55;Q49AM1;O60543;P16890;O60238;O75150;Q9UKT9;Q9Y6X8;Q9H008;O14558;O15405;Q9C035;Q9NWT6;P35579;P08697;P06748;P02511;Q03112;Q15633;Q6ZPB5;P26639;Q9UNS1;O75192;Q05516;Q6PI48;Q9Y5J7;Q15466;P19838;O75154;P22415;P84022;Q9UER7;P49589;P17676;P30793;Q2M1K9;O43399;P49454;Q9HB71;A0AVK6;Q9H7L9;Q6VUC0;P23297;Q9Y2G2;Q15276;Q8TAK5;Q9Y697;P08047}
- 4644 Pathogen[ P0C206] interacts with 175 human partners: {P49589;Q9UNS1;O75340;P28698;P84022;Q9NQG7;P53567;P31949;Q86XR8;Q9NQ87;Q8IXQ5;Q9C005;Q9HB71;P28715;Q49AM1;Q15466;O75192;P18124;Q9Y2G2;Q9NP71;Q9Y2Z4;Q9UH92;Q9UL45;Q9NSU2;O95684;Q8TAK5;P13533;O96017;Q9H4I2;Q9UNH7;Q15744;O75444;Q6PI48;O75154;P52701;Q15697;Q05516;Q15554;P52657;Q86X55;Q03933;Q9Y697;P05412;Q9HAV7;Q9C0J9;Q13137;A6NFD8;Q16890;P36551;P55327;Q6ICB4;Q9UER7;P13056;P49715;Q93009;Q5JR59;Q9NQ87;Q86VX0;Q86VW6;P49454;P31939;Q99497;O43809;P30622;P22736;P30793;Q10587;Q13257;Q9Y6X8;Q9NNW7;Q9Y5J7;O15405;Q9NVK5;Q6VUC0;O96004;O43399;Q9GZV5;Q15853;O95292;O60930;P54274;O60238;P54840;P20132;Q12983;P19838;Q8NF91;P12883;P22415;P05813;Q15070;Q03112;Q9NWT6;Q16719;Q9BZR9;Q86XE5;P17676;Q9UNE7;O43708;P08047;P07900;P34896;P35680;Q495M9;P15923;Q14686;O14908;A0AVK6;P20823;Q99728;Q96BY2;Q9BUL8;Q8NHW3;P35579;Q8TAA5;Q9H8V3;Q9H165;Q9NVV4;O15392;Q9C035;Q13485;P61244;Q9H008;Q15633;Q9NR22;Q2M1K9;Q9H7L9;P11831;O96011;P62072;P06703;Q01664;Q99966;Q15274;P20292;P53672;Q8N4B1;P26639;Q03933;Q96PM5;P20585;Q9UKT9;Q86U70;Q9HC16;Q6ZPB5;P11388;P06748;Q7L804;P55345;O60543;P23297;P02511;Q8N668;O14558;P42224;O76064;Q86YS3;Q9UKT5;P13929;Q9HD26;O75150;Q15257;P09234;P23025;Q9UII2;Q8IW40;Q96FQ6;Q99856;Q15276;Q12904;Q92748;O14746;P08697;P29401;Q14653}
- 4645 Pathogen[ P03363] interacts with 135 human partners: {Q7RTS1;Q86VE0;Q14653;Q9Y2Z4;Q86U70;Q9BUL8;O43399;Q9NQG7;Q8NF91;Q9NVV4;O94972;P49454;P28698;O60543;Q8NF91;Q9UNH7;Q9UH92;Q9BZR9;Q15466;P07900;O14908;Q7L804;Q15853;P17676;Q68DC2;Q6ICB4;P53567;Q9HB71;P35579;Q13516;Q15554;O75340;Q9NNW7;Q03933;Q15744;Q03112;P53672;Q9H7L9;P49589;Q9NQ87;Q99856;O95684;Q8NHW3;O14558;Q9Y6X8;Q9C0J9;P31949;P23025;Q9NVK5;Q9UER7;O14746;P09234;Q49AM1;Q14686;Q8N4B1;P23497;Q15633;Q9Y697;P06748;Q9C005;O75150;P52657;Q8N668;P61244;O96017;Q5JR59;P15923;Q2M1K9;P30622;P20585;P11831;Q8IYM1;Q8IXQ5;O43809;Q9GZV5;Q9NR22;Q96BY2;P54274;Q9UKT5;Q6PI48;O75444;Q9UNE7;Q9Y5J7;Q86WG5;Q9UNS1;P84022;A0AVK6;O96004;Q96PM5;Q9C035;P54840;Q8TAA5;Q13257;P22415;Q9H008;Q9Y2G2;P19838;P495M9;Q8TAK5;O75154;Q15697;Q6ZPB5;Q92748;Q8IW40;Q13485;Q16890;Q15257;P05412;Q9UKT9;O15405;O60930;Q86XR8;Q9NP71;Q99728;P08047;Q9NPP4;Q13137;O43708;Q05516;O60238;P18124;Q9H4I2;P13056;Q01664;P55327;Q9HD26;Q86X55;P23297;Q15276;O14503;Q10587;O75569;A6NFD8;Q6VUC0;P05813}
- 4646 [Cluster 423]GO:0070551+F molecular\_function [name] endoribonuclease activity, cleaving siRNA-paired mRNA [def] "Catalysis of the endonucleolytic cleavage of the mRNA in a double-stranded RNA molecule formed by the base pairing of an mRNA with an siRNA, yielding 5'-phosphomonoesters." [GOC
- 4647 Pathogen[ P2Q067] interacts with 1 human partners: {Q9UKV8}
- 4648 Pathogen[ P0C214] interacts with 1 human partners: {Q9UKV8}
- 4649 Pathogen[ P03346] interacts with 1 human partners: {Q9UKV8}
- 4650 Pathogen[ Q85601] interacts with 1 human partners: {Q9UKV8}

4651 Pathogen[ P14079] interacts with 1 human partners:{Q9UKV8}  
4652 Pathogen[ P03383] interacts with 1 human partners:{Q9UKV8}  
4653 Pathogen[ P03410] interacts with 1 human partners:{Q9UKV8}  
4654 Pathogen[ P14075] interacts with 1 human partners:{Q9UKV8}  
4655 Pathogen[ P0C206] interacts with 1 human partners:{Q9UKV8}  
4656 Pathogen[ P03363] interacts with 1 human partners:{Q9UKV8}  
4657 [Cluster 424]GO:0001104+F molecular\_function [name] RNA polymerase II transcription cofactor activity [def] "Interacting selectively and non-covalently with an RNA polymerase II (RNAP II) regulatory transcription factor and also with the RNAP II basal transcription machinery in order to modulate transcription. Cofactors generally do not bind DNA, but rather mediate protein-protein interactions between regulatory transcription factors and the basal RNAP II transcription machinery." [GOC  
4658 Pathogen[ Q2Q067] interacts with 27 human partners:{Q9BUE0;Q9Y3C7;Q96HR3;Q12888;Q9NPJ6;Q95402;Q9H944;Q9BTT4;Q93074;Q15528;O75586;O75448;O60244;Q9P086;Q96G25;Q9UHV7;Q9NWA0;A0JLT2;Q9NVC6;Q86YW9;Q13569;Q9NZN8;O43513;Q96PK6;Q96RN5;Q9Y2W1;Q71F56}  
4659 Pathogen[ P0C214] interacts with 27 human partners:{Q9NZN8;O75586;Q9P086;Q93074;Q9BUE0;Q9NWA0;Q96HR3;Q9NVC6;Q9BTT4;O60244;Q9H944;Q9Y3C7;Q96RN5;Q15528;A0JLT2;Q71F56;O43513;Q86YW9;Q96PK6;Q9UHV7;O75448;Q12888;Q13569;Q96G25;Q9Y2W1;O95402;Q9NPJ6}  
4660 Pathogen[ P03346] interacts with 28 human partners:{Q12888;O95402;Q9NPJ6;O75586;Q96HR3;Q86YW9;Q71F56;Q93074;O60244;Q9BTT4;Q9P086;Q9NZN8;Q96G25;O75448;Q15528;O43513;Q9Y3C7;A0JLT2;Q9H944;Q9NVC6;Q13569;O75593;Q9Y2W1;Q9NWA0;Q96PK6;Q9UHV7;Q96RN5;Q9BUE0}  
4661 Pathogen[ Q85601] interacts with 27 human partners:{Q9BUE0;Q96PK6;Q9UHV7;Q96G25;Q71F56;O75448;Q9Y3C7;Q9NZN8;Q12888;Q9H944;Q96RN5;O95402;Q15528;Q13569;A0JLT2;Q9BTT4;Q9NWA0;Q86YW9;O75586;Q9Y2W1;O60244;Q96HR3;Q93074;Q9NPJ6;Q9NVC6;O43513;Q9P086}  
4662 Pathogen[ P14079] interacts with 27 human partners:{Q60244;O95402;O43513;Q71F56;Q9BUE0;Q15528;Q96HR3;Q9Y3C7;Q9NVC6;A0JLT2;Q9P086;Q9NWA0;O75448;Q86YW9;O75586;Q9UHV7;Q96RN5;Q9H944;Q9NPJ6;Q9BTT4;Q93074;Q9NZN8;Q13569;Q12888;Q96G25;Q9Y2W1;Q96PK6}  
4663 Pathogen[ P03383] interacts with 26 human partners:{O95402;Q12888;Q9H944;Q86YW9;O60244;Q96G25;Q9NPJ6;Q93074;Q96HR3;Q96RN5;O75448;Q96PK6;Q9Y3C7;Q71F56;Q15528;Q13569;Q9NZN8;Q9P086;A0JLT2;Q9BTT4;Q9UHV7;Q9NVC6;O75586;Q9Y2W1;Q9NWA0;Q9BUE0}  
4664 Pathogen[ P03410] interacts with 27 human partners:{Q71F56;Q9Y2W1;Q9NZN8;Q96PK6;Q96G25;Q86YW9;Q9NVC6;Q9NPJ6;Q9NWA0;Q9Y3C7;O95402;O43513;Q13569;Q9BTT4;Q12888;Q96HR3;Q9P086;A0JLT2;O60244;Q9UHV7;Q93074;Q9H944;Q9BUE0;O75448;Q96RN5;O75586;Q15528}  
4665 Pathogen[ P14075] interacts with 27 human partners:{Q9NPJ6;Q15528;Q96HR3;Q71F56;Q9P086;O75448;Q9NZN8;Q9NWA0;Q86YW9;O95402;O75586;Q9BTT4;Q93074;Q9Y3C7;Q9UHV7;Q96PK6;Q9H944;O60244;A0JLT2;Q9NVC6;Q96RN5;Q12888;Q13569;Q96G25;Q9Y2W1;O43513;Q9BUE0}  
4666 Pathogen[ P0C206] interacts with 27 human partners:{Q9BUE0;Q96HR3;Q9P086;Q9NZN8;O75586;Q9Y3C7;Q86YW9;Q9UHV7;O43513;Q13569;Q12888;Q96RN5;O95402;Q9H944;Q9NPJ6;Q96PK6;Q9Y2W1;Q9BTT4;O60244;Q9NVC6;O75448;Q9NWA0;Q71F56;A0JLT2;Q96G25;Q93074;Q15528}  
4667 Pathogen[ P03363] interacts with 26 human partners:{Q15528;Q96HR3;Q9NZN8;Q96PK6;Q9NWA0;Q9BUE0;Q9NVC6;Q71F56;Q96RN5;Q9UHV7;A0JLT2;O75586;Q93074;O75448;Q13569;Q9BTT4;O95402;Q9NPJ6;O60244;Q9P086;Q86YW9;O43513;Q96G25;Q9H944;Q12888;Q9Y3C7}  
4668 [Cluster 425]GO:0004133+F molecular\_function [name] glycogen debranching enzyme activity [def] "Catalysis of the cleavage of branch points in branched glycogen polymers." [ISBN  
4669 Pathogen[ Q2Q067] interacts with 1 human partners:{P35573}  
4670 Pathogen[ P0C214] interacts with 1 human partners:{P35573}  
4671 Pathogen[ P03346] interacts with 1 human partners:{P35573}  
4672 Pathogen[ Q85601] interacts with 1 human partners:{P35573}  
4673 Pathogen[ P14079] interacts with 1 human partners:{P35573}  
4674 Pathogen[ P03383] interacts with 1 human partners:{P35573}  
4675 Pathogen[ P03410] interacts with 1 human partners:{P35573}  
4676 Pathogen[ P14075] interacts with 1 human partners:{P35573}  
4677 Pathogen[ P0C206] interacts with 1 human partners:{P35573}  
4678 Pathogen[ P03363] interacts with 1 human partners:{P35573}  
4679 [Cluster 426]GO:0009982+F molecular\_function [name] pseudouridine synthase activity [def] "Catalysis of the reaction  
4680 Pathogen[ Q2Q067] interacts with 6 human partners:{Q9Y606;O60832;Q9NY12;Q9BZE2;Q96CM3;O95900}  
4681 Pathogen[ P0C214] interacts with 9 human partners:{Q3MIT2;Q9UJJ7;Q9NY12;Q9BZE2;O95900;O60832;Q9Y606;Q8IZ73;Q96CM3}  
4682 Pathogen[ P03346] interacts with 8 human partners:{Q9Y606;O95900;Q9BZE2;O60832;Q8N0Z8;Q8WWH5;Q9NY12;Q96CM3}  
4683 Pathogen[ Q85601] interacts with 6 human partners:{Q9BZE2;Q9Y606;Q9UJJ7;Q9NY12;Q96CM3;O60832}  
4684 Pathogen[ P14079] interacts with 14 human



partners:{Q9BZE2;Q3MIT2;Q96CM3;Q6P087;O60832;Q8IZ73;Q96PZ0;Q8N0Z8;Q9NY12;Q9H0K6;Q9Y606;Q9UJJ7;O95900;Q8WWH5}

4685 Pathogen[ P03383] interacts with 6 human

partners:{Q9BZE2;Q9Y606;Q9NY12;O95900;Q96CM3;O60832}

4686 Pathogen[ P03410] interacts with 13 human

partners:{Q8IZ73;O60832;Q9UJJ7;Q96CM3;Q8N0Z8;Q9NY12;Q9BZE2;Q8WWH5;Q9Y606;O95900;Q6P087;Q9H0K6;Q3MIT2}

4687 Pathogen[ P14075] interacts with 9 human

partners:{Q8N0Z8;Q9Y606;Q8WWH5;O95900;Q9UJJ7;Q9BZE2;O60832;Q9NY12;Q96CM3}

4688 Pathogen[ P0C206] interacts with 11 human

partners:{Q8WWH5;Q9NY12;Q8IZ73;Q9UJJ7;Q9BZE2;Q6P087;O95900;O60832;Q9Y606;Q8N0Z8;Q96CM3}

4689 Pathogen[ P03363] interacts with 8 human

partners:{O60832;Q9BZE2;Q9Y606;Q9NY12;O95900;Q8N0Z8;Q8WWH5;Q96CM3}

4690 [Cluster 427]GO:0030983+F molecular\_function [name] mismatched DNA binding [def]  
"Interacting selectively and non-covalently with double-stranded DNA containing one or more mismatches." [GOC

4691 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9UHC1;P54278;Q13569}

4692 Pathogen[ P0C214] interacts with 6 human

partners:{A8MQ11;P20585;Q9UHC1;P54278;P40692;Q13569}

4693 Pathogen[ P03346] interacts with 5 human

partners:{Q9UHC1;P20585;Q13569;P54278;P54277}

4694 Pathogen[ Q85601] interacts with 6 human

partners:{A8MQ11;P20585;Q13569;P54278;Q9UHC1;P40692}

4695 Pathogen[ P14079] interacts with 11 human

partners:{O43196;P20585;P40692;Q68D20;P54278;Q9UHC1;A8MQ11;O95744;P54277;P52701;Q13569}

4696 Pathogen[ P03383] interacts with 3 human partners:{P54278;Q9UHC1;Q13569}

4697 Pathogen[ P03410] interacts with 11 human

partners:{P40692;P20585;P54277;P52701;Q13569;O95744;Q68D20;O43196;A8MQ11;P54278;Q9UHC1}

4698 Pathogen[ P14075] interacts with 3 human partners:{Q9UHC1;P54278;Q13569}

4699 Pathogen[ P0C206] interacts with 8 human

partners:{P54278;P52701;P40692;Q9UHC1;A8MQ11;P54277;Q13569;P20585}

4700 Pathogen[ P03363] interacts with 5 human

partners:{Q9UHC1;P20585;P54278;P54277;Q13569}

4701 [Cluster 428]GO:0001968+F molecular\_function [name] fibronectin binding [def]  
"Interacting selectively and non-covalently with a fibronectin, a group of related adhesive glycoproteins of high molecular weight found on the surface of animal cells, connective tissue matrices, and in extracellular fluids." [GOC

4702 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9HB19}

4703 Pathogen[ P0C214] interacts with 2 human partners:{O95633;Q9HB19}

4704 Pathogen[ P03346] interacts with 2 human partners:{Q9HB19;O95633}

4705 Pathogen[ Q85601] interacts with 1 human partners:{Q9HB19}

4706 Pathogen[ P14079] interacts with 2 human partners:{Q9HB19;Q9GZZ8}

4707 Pathogen[ P03383] interacts with 1 human partners:{Q9HB19}

4708 Pathogen[ P03410] interacts with 2 human partners:{Q9GZZ8;Q9HB19}

4709 Pathogen[ P14075] interacts with 2 human partners:{Q9HB19;Q9GZZ8}

4710 Pathogen[ P0C206] interacts with 2 human partners:{Q9HB19;O95633}

4711 Pathogen[ P03363] interacts with 1 human partners:{Q9HB19}

4712 [Cluster 429]GO:0004527+F molecular\_function [name] exonuclease activity [def]  
"Catalysis of the hydrolysis of ester linkages within nucleic acids by removing nucleotide residues from the 3' or 5' end." [GOC

4713 Pathogen[ Q2Q067] interacts with 22 human

partners:{Q8TCS8;Q9Y2M0;Q96SD1;Q99638;Q96LI5;Q8IZH2;P49959;Q9Y2L1;Q504Q3;P27695;Q9GZR2;Q9NUW8;Q9UQ84;Q8TF46;P39748;Q92499;P54098;Q9H816;Q9H9L3;O95453;O60671;Q9ULM6}

4714 Pathogen[ P0C214] interacts with 27 human

partners:{Q8N1G1;P27695;O95453;P49959;Q9H816;P54098;Q9Y2L1;Q504Q3;Q96SD1;Q9Y2M0;Q8TF46;Q8IZH2;Q9ULM6;Q8TCS8;Q9H9L3;Q8IV48;Q8WTP8;O60671;Q92499;Q9GZR2;P39748;Q9UQ84;Q8IYB7;Q9NUW8;Q96LI5;Q99638;Q9Y3B8}

4715 Pathogen[ P03346] interacts with 25 human

partners:{Q504Q3;Q9ULM6;Q96SD1;Q9GZR2;Q8IX06;P54098;Q9H9L3;Q9NUW8;Q99638;Q8IYB7;Q8IZH2;O95453;Q92499;Q8TCS8;Q9Y2L1;P49959;Q9UQ84;O60671;P27695;P39748;Q9H816;Q9Y2M0;Q9UBZ4;Q96LI5;Q8TF46}

4716 Pathogen[ Q85601] interacts with 24 human

partners:{Q9UBZ4;Q9Y2M0;Q9UQ84;P49959;Q92499;Q504Q3;Q9Y2L1;Q8IYB7;Q8IZH2;Q96LI5;P54098;Q96SD1;O95453;Q8TCS8;Q9ULM6;Q9NUW8;Q9GZR2;Q9H9L3;O60671;P39748;Q9H816;P27695;Q8TF46;Q99638}

4717 Pathogen[ P14079] interacts with 31 human

partners:{O60671;Q8IV48;Q9Y3B8;Q9UBZ4;Q96LI5;Q9GZR2;Q8TF46;O95453;Q9BQ50;Q8N1G1;Q8IYB7;Q8IZH2;Q9NUW8;Q9H790;Q9H9L3;P27695;Q9Y2M0;Q9Y2L1;Q9NSU2;Q96AZ6;Q96SD1;Q92499;Q99638;Q9ULM6;P54098;Q504Q3;Q9H816;Q9UQ84;Q8TCS8;P39748;Q8WTP8}

4718 Pathogen[ P03383] interacts with 14 human

partners:{Q9Y2L1;O60671;Q8TCS8;Q9H816;P54098;Q9H9L3;Q9Y2M0;Q9ULM6;Q99638;Q9NUW8;P27695;Q92499;O95453;Q96LI5}

4719 Pathogen[ P03410] interacts with 34 human

partners:{Q96LI5;P49959;Q9Y2L1;Q8WTP8;Q9GZR2;Q9Y3B8;Q8TCS8;Q9H816;Q8IV48;Q9BQ50;Q9ULM6;Q8TF46;Q8NHP7;P39748;Q9NSU2;Q96SD1;Q9H790;Q8IZH2;Q9UBZ4;Q95453;Q99638;Q92499;Q96AZ6;Q8IX06;Q9NUW8;Q8N1G1;O60671;Q8IYB7;P27695;Q9UQ84;Q9Y2M0;P54098;Q504Q3;Q9H9L3}

4720 Pathogen[ P14075] interacts with 14 human

partners:{Q95453;P54098;Q9ULM6;P27695;O60671;Q96LI5;Q9Y2L1;Q9Y2M0;Q99638;Q92499;Q9H816;Q9H9L3;Q8TCS8;Q9NUW8}

4721 Pathogen[ P0C206] interacts with 29 human

partners:{P27695;Q9Y2M0;Q504Q3;Q9H790;Q95453;P49959;Q9UQ84;Q9NSU2;Q8IZH2;Q8TCS8;Q8IV48;Q96LI5;Q9H9L3;Q9NUW8;P54098;Q96SD1;Q9UBZ4;Q9H816;Q8N1G1;Q99638;Q9Y3B8;Q9Y2L1;O60671;P39748;Q9GZR2;Q8IYB7;Q92499;Q9ULM6;Q8TF46}

4722 Pathogen[ P03363] interacts with 20 human

partners:{Q504Q3;Q9H816;Q9BQ50;Q95453;Q9Y2M0;Q9GZR2;O60671;P54098;Q9ULM6;Q8IYB7;Q8N1G1;Q9H9L3;Q9NUW8;Q9Y2L1;Q92499;Q96LI5;Q8IX06;Q99638;Q8TF46;Q8IZH2}

4723 [Cluster 430]GO:0008656+F molecular\_function [name] cysteine-type endopeptidase activator activity involved in apoptotic process [def] "Increases the rate of proteolysis catalyzed by a cysteine-type endopeptidase involved in the apoptotic process." [GOC

4724 Pathogen[ Q2Q067] interacts with 9 human

partners:{P54274;Q00994;Q15304;Q16890;Q9C000;Q9Y2G2;P46527;Q9UKL3;Q71UM5}

4725 Pathogen[ P0C214] interacts with 12 human

partners:{Q92934;Q00994;P46527;Q71UM5;Q16890;Q9UKL3;Q9Y2G2;O14727;Q15304;P54274;Q9C000;Q96NN9}

4726 Pathogen[ P03346] interacts with 10 human

partners:{P54274;Q15304;Q71UM5;Q00994;Q16890;Q9UKL3;Q9Y2G2;P46527;O14727;Q9C000}

4727 Pathogen[ Q85601] interacts with 8 human

partners:{Q16890;Q9UKL3;Q15304;Q9Y2G2;Q71UM5;Q00994;P54274;P46527}

4728 Pathogen[ P14079] interacts with 12 human

partners:{P54274;Q16890;Q15304;Q9C000;Q9BXX5;Q00994;Q9UKL3;Q92934;Q71UM5;Q9Y2G2;P46527;Q9Y239}

4729 Pathogen[ P03383] interacts with 8 human

partners:{Q9UKL3;Q15304;Q71UM5;Q00994;P46527;Q9Y2G2;Q16890;P54274}

4730 Pathogen[ P03410] interacts with 11 human

partners:{P46527;Q9Y2G2;Q9Y239;P54274;Q92934;Q9C000;Q00994;Q9UKL3;Q16890;Q71UM5;Q15304}

4731 Pathogen[ P14075] interacts with 8 human

partners:{Q00994;Q15304;P46527;Q9UKL3;P54274;Q16890;Q9Y2G2;Q71UM5}

4732 Pathogen[ P0C206] interacts with 11 human

partners:{Q9C000;Q9Y2G2;Q9UKL3;Q16890;Q00994;Q92934;P54274;Q71UM5;P46527;Q9BXX5;Q15304}

4733 Pathogen[ P03363] interacts with 8 human

partners:{Q9C000;Q15304;P54274;Q9UKL3;Q9Y2G2;Q00994;Q71UM5;Q16890}

4734 [Cluster 431]GO:0001191+F molecular\_function [name] RNA polymerase II transcription factor binding transcription factor activity involved in negative regulation of transcription [def] "Interacting selectively and non-covalently with an RNA polymerase II transcription factor, which may be a single protein or a complex, in order to stop, prevent, or reduce the frequency, rate or extent of transcription from an RNA polymerase II promoter. A protein binding transcription factor may or may not also interact with the template nucleic acid (either DNA or RNA) as well." [GOC

4735 Pathogen[ Q2Q067] interacts with 3 human partners:{O14503;Q96T58;Q92793}

4736 Pathogen[ P0C214] interacts with 3 human partners:{Q96T58;Q92793;O14503}

4737 Pathogen[ P03346] interacts with 4 human partners:{O14503;Q9C0J9;Q96T58;Q92793}

4738 Pathogen[ Q85601] interacts with 3 human partners:{O14503;Q96T58;Q92793}

4739 Pathogen[ P14079] interacts with 3 human partners:{Q92793;O14503;Q96T58}

4740 Pathogen[ P03383] interacts with 3 human partners:{O14503;Q96T58;Q92793}

4741 Pathogen[ P03410] interacts with 2 human partners:{Q96T58;Q92793}

4742 Pathogen[ P14075] interacts with 3 human partners:{Q96T58;O14503;Q92793}

4743 Pathogen[ P0C206] interacts with 3 human partners:{Q9C0J9;Q92793;Q96T58}

4744 Pathogen[ P03363] interacts with 4 human partners:{Q96T58;Q9C0J9;Q92793;O14503}

4745 [Cluster 432]GO:0008479+F molecular\_function [name] queuine tRNA-ribosyltransferase activity [def] "Catalysis of the reaction

4746 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9H974;Q9BXR0}

4747 Pathogen[ P0C214] interacts with 2 human partners:{Q9BXR0;Q9H974}

4748 Pathogen[ P03346] interacts with 2 human partners:{Q9BXR0;Q9H974}

4749 Pathogen[ Q85601] interacts with 2 human partners:{Q9BXR0;Q9H974}

4750 Pathogen[ P14079] interacts with 2 human partners:{Q9BXR0;Q9H974}

4751 Pathogen[ P03383] interacts with 2 human partners:{Q9H974;Q9BXR0}

4752 Pathogen[ P03410] interacts with 1 human partners:{Q9H974}

4753 Pathogen[ P14075] interacts with 2 human partners:{Q9H974;Q9BXR0}

4754 Pathogen[ P0C206] interacts with 2 human partners:{Q9H974;Q9BXR0}

4755 Pathogen[ P03363] interacts with 2 human partners:{Q9BXR0;Q9H974}

4756 [Cluster 433]GO:0004590+F molecular\_function [name] orotidine-5'-phosphate decarboxylase activity [def] "Catalysis of the reaction

4757 Pathogen[ Q2Q067] interacts with 1 human partners:{P11172}

4758 Pathogen[ P0C214] interacts with 1 human partners:{P11172}

4759 Pathogen[ P03346] interacts with 1 human partners:{P11172}

4760 Pathogen[ Q85601] interacts with 1 human partners:{P11172}

4761 Pathogen[ P14079] interacts with 1 human partners:{P11172}  
4762 Pathogen[ P03383] interacts with 1 human partners:{P11172}  
4763 Pathogen[ P03410] interacts with 1 human partners:{P11172}  
4764 Pathogen[ P14075] interacts with 1 human partners:{P11172}  
4765 Pathogen[ P0C206] interacts with 1 human partners:{P11172}  
4766 Pathogen[ P03363] interacts with 1 human partners:{P11172}  
4767 [Cluster 434]GO:0070728+F molecular\_function [name] leucine binding [def]  
"Interacting selectively and non-covalently with 2-amino-4-methylpentanoic acid." [CHEBI  
4768 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8I WV8}  
4769 Pathogen[ P0C214] interacts with 2 human partners:{Q8I WV8;Q8I WV7}  
4770 Pathogen[ P03346] interacts with 1 human partners:{Q8I WV8}  
4771 Pathogen[ Q85601] interacts with 2 human partners:{Q8I WV7;Q8I WV8}  
4772 Pathogen[ P14079] interacts with 2 human partners:{Q8I WV8;Q8I WV7}  
4773 Pathogen[ P03383] interacts with 1 human partners:{Q8I WV8}  
4774 Pathogen[ P03410] interacts with 2 human partners:{Q8I WV8;Q8I WV7}  
4775 Pathogen[ P14075] interacts with 1 human partners:{Q8I WV8}  
4776 Pathogen[ P0C206] interacts with 2 human partners:{Q8I WV7;Q8I WV8}  
4777 Pathogen[ P03363] interacts with 1 human partners:{Q8I WV8}  
4778 [Cluster 435]GO:0016817+F molecular\_function [name] hydrolase activity, acting on acid  
anhydrides [def] "Catalysis of the hydrolysis of any acid anhydride." [GOC  
4779 Pathogen[ Q2Q067] interacts with 9 human  
partners:{P51531;P51532;Q3L8U1;Q9BYX4;Q9ULG1;Q9HCK8;P13010;Q9HBD4;P28370}  
4780 Pathogen[ P0C214] interacts with 11 human  
partners:{P13010;Q9HBD4;Q3L8U1;Q9ULG1;Q9BYX4;Q92698;P28370;Q9HCK8;O60264;P51531;P5153  
2}  
4781 Pathogen[ P03346] interacts with 14 human  
partners:{Q9HBD4;P51532;Q9ULG1;Q8TD26;P13010;Q92698;O60264;Q9HCK8;P42285;Q9BYX4;P2837  
0;Q9P2D1;P51531;Q3L8U1}  
4782 Pathogen[ Q85601] interacts with 13 human  
partners:{Q3L8U1;Q9P2D1;Q92698;P51531;P51532;Q9BYX4;Q9ULG1;Q9HBD4;Q9HCK8;P28370;Q8TD2  
6;O60264;P13010}  
4783 Pathogen[ P14079] interacts with 14 human  
partners:{Q9ULG1;Q9BYX4;P13010;P28370;P51532;Q92698;P51531;Q9P2D1;Q8TD26;Q9HCK8;O6026  
4;Q96FC9;Q96C10;Q3L8U1}  
4784 Pathogen[ P03383] interacts with 7 human  
partners:{Q9HBD4;P13010;P28370;P51531;Q3L8U1;Q9HCK8;P51532}  
4785 Pathogen[ P03410] interacts with 15 human  
partners:{Q92698;Q9BYX4;Q9ULG1;Q9P2D1;Q9HCK8;P51532;P51531;Q3L8U1;Q96C10;P13010;Q96FC  
9;Q8TD26;O60264;Q9HBD4;P28370}  
4786 Pathogen[ P14075] interacts with 7 human  
partners:{Q3L8U1;Q9HBD4;P51532;Q9HCK8;P51531;P28370;P13010}  
4787 Pathogen[ P0C206] interacts with 15 human  
partners:{Q9HCK8;P13010;Q8TD26;P51532;P51531;Q9P2D1;Q9ULG1;P28370;Q9HBD4;Q9BYX4;Q96C1  
0;Q9BX63;Q92698;O60264;Q3L8U1}  
4788 Pathogen[ P03363] interacts with 14 human  
partners:{Q9BX63;Q3L8U1;Q9ULG1;P13010;P51532;O60264;Q9HCK8;Q9HBD4;Q8TD26;Q9BYX4;P2837  
0;P51531;Q92698;P42285}  
4789 [Cluster 436]GO:0003746+F molecular\_function [name] translation elongation factor  
activity [def] "Functions in chain elongation during polypeptide synthesis at the  
ribosome." [ISBN  
4790 Pathogen[ Q2Q067] interacts with 10 human  
partners:{P29692;P24534;P26641;P63241;Q6IS14;P57772;Q658K8;P43897;Q9GZV4;P68104}  
4791 Pathogen[ P0C214] interacts with 12 human  
partners:{Q6IS14;P57772;Q9GZV4;P29692;P26641;P63241;P13639;P43897;P24534;Q05639;Q5VTE  
0;Q658K8}  
4792 Pathogen[ P03346] interacts with 11 human  
partners:{Q9GZV4;P57772;P26641;P29692;P63241;Q6IS14;P43897;Q969K4;P24534;Q658K8;P6810  
4}  
4793 Pathogen[ Q85601] interacts with 12 human  
partners:{Q9GZV4;Q5VTE0;P57772;Q658K8;P26641;P63241;P24534;P68104;P43897;P29692;Q0563  
9;Q6IS14}  
4794 Pathogen[ P14079] interacts with 14 human  
partners:{Q658K8;P68104;Q6IS14;P57772;P26641;P29692;P43897;Q96RP9;P24534;P13639;Q969S  
9;P63241;Q9GZV4;P49411}  
4795 Pathogen[ P03383] interacts with 9 human  
partners:{Q658K8;P57772;P24534;Q9GZV4;P26641;P63241;P68104;P43897;P29692}  
4796 Pathogen[ P03410] interacts with 15 human  
partners:{P68104;Q96RP9;Q969S9;P13639;Q969K4;Q658K8;P57772;P24534;P63241;P26641;Q9GZV  
4;P29692;P49411;P43897;Q6IS14}  
4797 Pathogen[ P14075] interacts with 9 human  
partners:{Q658K8;P68104;P57772;P26641;P29692;Q9GZV4;P63241;P43897;P24534}  
4798 Pathogen[ P0C206] interacts with 10 human  
partners:{Q9GZV4;Q6IS14;Q658K8;P26641;P43897;P57772;P63241;P24534;P29692;P68104}  
4799 Pathogen[ P03363] interacts with 10 human  
partners:{P43897;Q9GZV4;P57772;P26641;P29692;P63241;P24534;Q6IS14;Q658K8;P68104}  
4800 [Cluster 437]GO:0008301+F molecular\_function [name] DNA binding, bending [def] "The

activity of binding to and distorting the original structure of DNA, typically a straight helix, into a bend, or increasing the bend if the original structure was intrinsically bent due to its sequence." [GOC

4801 Pathogen[ Q2Q067] interacts with 4 human partners:{P54274;P15976;Q08050;O43524}

4802 Pathogen[ P0C214] interacts with 1 human partners:{P54274}

4803 Pathogen[ P03346] interacts with 12 human partners:{P85037;P58012;P54274;Q08050;O00409;P15976;Q12778;Q01167;P98177;O75593;O43524;Q9UJU5}

4804 Pathogen[ Q85601] interacts with 3 human partners:{P15976;Q08050;P54274}

4805 Pathogen[ P14079] interacts with 2 human partners:{P54274;P15976}

4806 Pathogen[ P03383] interacts with 1 human partners:{P54274}

4807 Pathogen[ P03410] interacts with 2 human partners:{P54274;P15976}

4808 Pathogen[ P14075] interacts with 2 human partners:{Q08050;P54274}

4809 Pathogen[ P0C206] interacts with 3 human partners:{P15976;P54274;Q08050}

4810 Pathogen[ P03363] interacts with 6 human partners:{O00409;O43524;Q08050;P54274;Q01167;Q9UJU5}

4811 [Cluster 438]GO:0003680+F molecular\_function [name] AT DNA binding [def] "Interacting selectively and non-covalently with oligo(A) and oligo(T) tracts of DNA (AT DNA)." [GOC

4812 Pathogen[ Q2Q067] interacts with 1 human partners:{P17096}

4813 Pathogen[ P0C214] interacts with 1 human partners:{P17096}

4814 Pathogen[ P03346] interacts with 2 human partners:{P17096;P49335}

4815 Pathogen[ Q85601] interacts with 1 human partners:{P17096}

4816 Pathogen[ P14079] interacts with 2 human partners:{Q06413;P17096}

4817 Pathogen[ P03383] interacts with 1 human partners:{P17096}

4818 Pathogen[ P03410] interacts with 1 human partners:{P17096}

4819 Pathogen[ P14075] interacts with 1 human partners:{P17096}

4820 Pathogen[ P0C206] interacts with 1 human partners:{P17096}

4821 Pathogen[ P03363] interacts with 2 human partners:{P17096;P49335}

4822 [Cluster 439]GO:0030275+F molecular\_function [name] LRR domain binding [def] "Interacting selectively and non-covalently with a LRR domain (leucine rich repeats) of a protein." [GOC

4823 Pathogen[ Q2Q067] interacts with 3 human partners:{P52435;Q2QGD7;Q9Y608}

4824 Pathogen[ P0C214] interacts with 3 human partners:{P52435;Q2QGD7;Q9Y608}

4825 Pathogen[ P03346] interacts with 3 human partners:{Q2QGD7;Q9Y608;P52435}

4826 Pathogen[ Q85601] interacts with 3 human partners:{Q9Y608;Q2QGD7;P52435}

4827 Pathogen[ P14079] interacts with 3 human partners:{Q2QGD7;P52435;Q9Y608}

4828 Pathogen[ P03383] interacts with 3 human partners:{P52435;Q2QGD7;Q9Y608}

4829 Pathogen[ P03410] interacts with 3 human partners:{Q9Y608;P52435;Q2QGD7}

4830 Pathogen[ P14075] interacts with 3 human partners:{Q9Y608;Q2QGD7;P52435}

4831 Pathogen[ P0C206] interacts with 3 human partners:{Q9Y608;P52435;Q2QGD7}

4832 Pathogen[ P03363] interacts with 3 human partners:{Q9Y608;Q2QGD7;P52435}

4833 [Cluster 440]GO:0043426+F molecular\_function [name] MRF binding [def] "Interacting selectively and non-covalently with Myogenic Regulatory Factor (MRF), a member of the basic Helix-Loop-Helix (bHLH) superfamily of transcription factors." [PMID

4834 Pathogen[ Q2Q067] interacts with 3 human partners:{O14503;Q99576;Q92793}

4835 Pathogen[ P0C214] interacts with 3 human partners:{Q92793;Q99576;O14503}

4836 Pathogen[ P03346] interacts with 4 human partners:{O14503;Q9C0J9;Q99576;Q92793}

4837 Pathogen[ Q85601] interacts with 3 human partners:{O14503;Q99576;Q92793}

4838 Pathogen[ P14079] interacts with 3 human partners:{Q92793;Q99576;O14503}

4839 Pathogen[ P03383] interacts with 3 human partners:{Q99576;O14503;Q92793}

4840 Pathogen[ P03410] interacts with 2 human partners:{Q92793;Q99576}

4841 Pathogen[ P14075] interacts with 3 human partners:{Q99576;O14503;Q92793}

4842 Pathogen[ P0C206] interacts with 3 human partners:{Q9C0J9;Q92793;Q99576}

4843 Pathogen[ P03363] interacts with 4 human partners:{Q99576;Q9C0J9;Q92793;O14503}

4844 [Cluster 441]GO:0045322+F molecular\_function [name] unmethylated CpG binding [def] "Interacting selectively and non-covalently with unmethylated CpG motifs. Unmethylated CpG dinucleotides are often associated with gene promoters." [GOC

4845 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9P0U4;Q9Y6K1;Q9UBC3}

4846 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y6K1}

4847 Pathogen[ P03346] interacts with 3 human partners:{Q9Y6K1;Q9UBC3;Q9P0U4}

4848 Pathogen[ Q85601] interacts with 3 human partners:{Q9P0U4;Q9Y6K1;Q9UBC3}

4849 Pathogen[ P14079] interacts with 3 human partners:{Q9Y6K1;Q9UBC3;Q9P0U4}

4850 Pathogen[ P03383] interacts with 1 human partners:{Q9Y6K1}

4851 Pathogen[ P03410] interacts with 3 human partners:{Q9P0U4;Q9UBC3;Q9Y6K1}

4852 Pathogen[ P14075] interacts with 1 human partners:{Q9Y6K1}

4853 Pathogen[ P0C206] interacts with 3 human partners:{Q9P0U4;Q9Y6K1;Q9UBC3}

4854 Pathogen[ P03363] interacts with 3 human partners:{Q9P0U4;Q9Y6K1;Q9UBC3}

4855 [Cluster 442]GO:0019894+F molecular\_function [name] kinesin binding [def] "Interacting selectively and non-covalently and stoichiometrically with kinesin, a member of a superfamily of microtubule-based motor proteins that perform force-generating tasks such as organelle transport and chromosome segregation." [GOC

4856 Pathogen[ Q2Q067] interacts with 11 human partners:{O43747;Q8IWE5;Q96N16;Q96EK5;Q8TCI5;Q9H0B6;Q9UQF2;Q86WG3;Q5TZA2;Q92845;Q9NX95}

4857 Pathogen[ P0C214] interacts with 11 human

```
partners:{P60709;Q8TCI5;Q8IWE5;Q9H0B6;Q9NX95;Q9UQF2;Q92845;O43747;Q86WG3;Q5TZA2;Q96N16}
4858 Pathogen[ P03346] interacts with 13 human
partners:{Q96N16;O43747;P60709;Q9NX95;Q6P597;Q96EK5;Q5TZA2;Q9UQF2;Q8TCI5;Q92845;Q86WG3;Q9H0B6;Q8IWE5}
4859 Pathogen[ Q85601] interacts with 12 human
partners:{O43747;Q9UQF2;Q8IWE5;P60709;Q8TCI5;Q6P597;Q86WG3;Q92845;Q5TZA2;Q9NX95;Q9H0B6;Q96N16}
4860 Pathogen[ P14079] interacts with 13 human
partners:{Q5TZA2;Q86WG3;Q9NX95;Q9UQF2;Q96N16;Q96EK5;Q8TCI5;P60709;O43747;Q8IWE5;Q92845;Q9H0B6;Q6P597}
4861 Pathogen[ P03383] interacts with 11 human
partners:{Q86WG3;Q9NX95;Q9H0B6;Q9UQF2;Q8TCI5;Q5TZA2;Q96N16;O43747;Q96EK5;Q92845;Q8IWE5}
4862 Pathogen[ P03410] interacts with 14 human
partners:{Q96EK5;Q8IWE5;Q9H0B6;O43747;Q86WG3;Q92845;Q96N16;Q6P597;O60333;Q5TZA2;Q8TCI5;Q9UQF2;P60709;Q9NX95}
4863 Pathogen[ P14075] interacts with 11 human
partners:{Q86WG3;Q92845;Q96N16;Q5TZA2;Q8IWE5;Q8TCI5;O43747;Q9H0B6;Q9NX95;Q9UQF2;Q96EK5}
4864 Pathogen[ P0C206] interacts with 13 human
partners:{Q8TCI5;P60709;Q92845;Q8IWE5;O43747;Q5TZA2;Q6P597;Q9UQF2;Q96N16;Q9NX95;Q9H0B6;Q96EK5;Q86WG3}
4865 Pathogen[ P03363] interacts with 13 human
partners:{Q92845;P60709;O43747;Q9UQF2;Q8TCI5;Q8IWE5;Q5TZA2;Q9H0B6;Q86WG3;Q96EK5;O60333;Q96N16;Q9NX95}
4866 [Cluster 443]GO:0030742+F molecular_function [name] GTP-dependent protein binding [def] "Interacting selectively and non-covalently with any protein or protein complex (a complex of two or more proteins that may include other nonprotein molecules) using energy from the hydrolysis of GTP." [GOC]
4867 Pathogen[ Q2Q067] interacts with 5 human
partners:{Q9NPB6;P30793;P60953;P63000;P30047}
4868 Pathogen[ P0C214] interacts with 5 human
partners:{P63000;P60953;P30793;Q9NPB6;P30047}
4869 Pathogen[ P03346] interacts with 4 human partners:{Q9NPB6;P60953;P30047;P63000}
4870 Pathogen[ Q85601] interacts with 5 human
partners:{P63000;P30793;P30047;Q9NPB6;P60953}
4871 Pathogen[ P14079] interacts with 4 human partners:{P30793;Q15075;Q9NPB6;P30047}
4872 Pathogen[ P03383] interacts with 4 human partners:{P60953;P63000;Q9NPB6;P30047}
4873 Pathogen[ P03410] interacts with 5 human
partners:{P30047;P63000;P30793;P60953;Q9NPB6}
4874 Pathogen[ P14075] interacts with 5 human
partners:{P60953;P30047;P63000;Q9NPB6;P30793}
4875 Pathogen[ P0C206] interacts with 5 human
partners:{P30793;P30047;P63000;Q9NPB6;P60953}
4876 Pathogen[ P03363] interacts with 4 human partners:{Q9NPB6;P63000;P30047;P60953}
4877 [Cluster 444]GO:0043274+F molecular_function [name] phospholipase binding [def] "Interacting selectively and non-covalently with any phospholipase, enzymes that catalyze of the hydrolysis of a glycerophospholipid." [GOC]
4878 Pathogen[ Q2Q067] interacts with 2 human partners:{P20700;P84103}
4879 Pathogen[ P0C214] interacts with 2 human partners:{P84103;P20700}
4880 Pathogen[ P03346] interacts with 2 human partners:{P20700;P84103}
4881 Pathogen[ Q85601] interacts with 2 human partners:{P20700;P84103}
4882 Pathogen[ P14079] interacts with 2 human partners:{P20700;P84103}
4883 Pathogen[ P03383] interacts with 2 human partners:{P84103;P20700}
4884 Pathogen[ P03410] interacts with 2 human partners:{P20700;P84103}
4885 Pathogen[ P14075] interacts with 2 human partners:{P20700;P84103}
4886 Pathogen[ P0C206] interacts with 2 human partners:{P84103;P20700}
4887 Pathogen[ P03363] interacts with 2 human partners:{P20700;P84103}
4888 [Cluster 445]GO:0030515+F molecular_function [name] snoRNA binding [def] "Interacting selectively and non-covalently with small nucleolar RNA." [GOC]
4889 Pathogen[ Q2Q067] interacts with 7 human
partners:{P55769;Q96HR8;Q9UHK0;O00567;P78316;Q9NY12;Q9Y2X3}
4890 Pathogen[ P0C214] interacts with 7 human
partners:{O00567;Q9UHK0;Q9NY12;P78316;P55769;Q9Y2X3;Q96HR8}
4891 Pathogen[ P03346] interacts with 8 human
partners:{O00567;Q9Y2X3;Q9NX24;Q9UHK0;P78316;P55769;Q9NY12;Q96HR8}
4892 Pathogen[ Q85601] interacts with 7 human
partners:{Q96HR8;P55769;Q9UHK0;O00567;Q9NY12;Q9Y2X3;P78316}
4893 Pathogen[ P14079] interacts with 7 human
partners:{Q9Y2X3;Q96HR8;Q9UHK0;O00567;Q9NY12;P78316;P55769}
4894 Pathogen[ P03383] interacts with 7 human
partners:{O00567;Q9UHK0;P78316;Q9NY12;Q96HR8;Q9Y2X3;P55769}
4895 Pathogen[ P03410] interacts with 8 human
partners:{P78316;Q9UHK0;P55769;Q9Y2X3;Q9NX24;O00567;Q9NY12;Q96HR8}
4896 Pathogen[ P14075] interacts with 7 human
```

4897 partners:{000567;P78316;Q96HR8;Q9UHK0;P55769;Q9NY12;Q9Y2X3}  
Pathogen[ POC206] interacts with 7 human

4898 partners:{Q9NY12;P55769;Q9UHK0;O00567;P78316;Q9Y2X3;Q96HR8}  
Pathogen[ P03363] interacts with 8 human

4899 partners:{Q9NX24;Q9Y2X3;Q9NY12;O00567;Q9UHK0;P55769;P78316;Q96HR8}  
[Cluster 446]GO:0000166+F molecular\_function [name] nucleotide binding [def]  
"Interacting selectively and non-covalently with a nucleotide, any compound consisting of a nucleoside that is esterified with (ortho)phosphate or an oligophosphate at any hydroxyl group on the ribose or deoxyribose." [GOC

4900 Pathogen[ Q2Q067] interacts with 269 human  
partners:{095363;Q01844;Q9UNP9;P23588;Q92900;Q14151;P33240;P22392;O75351;O00425;Q86U4  
2;P23381;P07910;P31749;Q9BZE4;Q9BVP2;Q9Y6K5;P49591;P07195;O60841;Q9BUP3;Q8IY18;P52272  
;O75494;P14866;P62750;Q0VDF9;Q13148;Q9UKX2;Q9Y285;P62837;P38646;P55795;Q01130;Q9NVN8;  
Q9H1B4;P62826;Q99741;Q15233;P30793;Q9H1H9;Q9P0M2;Q9UHX1;P49427;P51531;Q8N684;Q14204;O  
00762;Q9Y2X8;Q9Y6M1;O43390;P19367;Q15696;Q15046;P11387;Q9HAN9;Q9NSD9;P08238;P38919;Q1  
4103;O60506;Q9UBU9;P60604;O95347;Q9H6T0;O76031;P18615;P07900;O60318;Q96S55;O14757;O00  
148;Q6ZRS2;Q96T58;P08107;P63279;Q5T160;Q13838;Q13415;Q07955;P38935;Q9BZI7;Q8NDT2;Q166  
29;P12270;Q9NZC7;P51965;Q14240;O43542;Q06609;Q96I59;P31943;O43776;P11388;Q9Y295;P3218  
9;P61077;P49756;Q15424;P26196;P08621;P11142;A6NDB9;Q16630;Q13287;O43502;P63146;Q9ULW3  
;Q9BY77;P38159;Q9UHI6;P84103;P59047;P17987;Q9BYK8;O75582;Q14498;O43236;Q86V81;Q96T37;  
O96017;P12755;Q14978;P41252;Q8N3C0;Q9NPD8;Q13310;O95628;P51668;Q05519;P26368;Q96EP1;O  
43251;P50991;P50750;Q96Q89;Q13233;Q08211;P51532;P42025;O14656;Q9H4L7;Q53GL7;P08579;P5  
2597;P50613;P07814;Q8IWL9;P23246;Q12873;Q9UN37;Q9Y5S9;P04406;P61088;Q01081;Q5TCQ9;P57  
772;P46100;Q8IYD1;Q9BRS8;Q03468;P13984;Q13243;P40925;P12956;P50570;Q02241;Q9P2R7;Q8WV  
V9;O00139;P12883;Q3L8U1;P19338;Q13363;Q9UKV3;Q15029;Q92499;Q9BYZ2;Q15257;P62847;P0901  
2;O75943;P23258;O43913;P54136;Q9HCEL1;Q14839;P12757;O43615;Q86UW6;Q9UNY4;P04818;O14920  
;Q9H4D5;Q9C000;P52298;O14646;Q9BPX1;Q9BYX4;P45984;Q9ULG1;Q15427;Q6PI48;Q9UHN1;P49459;  
P60953;P25205;O14556;P35251;Q9HCK8;P46013;P40926;O43318;P49336;Q9HA77;Q96PK6;P00338;Q  
86WJ1;P62256;Q9BW92;P68036;P63000;P41250;P35579;Q14683;P21675;Q86WI3;P24941;P13010;Q8  
N4C6;Q8NE71;P28370;P49589;O95453;Q9Y2W1;P11802;P78371;P35637;Q02040;P22626;Q9NVV4;P61  
586;P11940;Q8WXF1;O15111;Q93062;Q92841;Q9P2J5;Q9NTK5;Q8IYD8;P60842;Q16836;Q00839;Q9UI  
36;P07864;Q15056;Q15759;Q16526;P68104;P14868;O75821;Q8NG50;Q76FK4;P14625;Q00534;Q9H1J  
1;P33076;P23025;P51003}

4901 Pathogen[ P0C214] interacts with 427 human  
partners:{08IWL9;Q9BY77;Q16795;P41250;Q9BZI7;Q13310;Q96B02;Q14410;Q8IY18;Q96P26;Q9GZZ  
9;Q96T66;Q14527;Q9H832;Q8IX04;Q58FG0;P26368;P09417;P60709;Q9H6T0;P49589;P52209;A7E2Y1  
;Q05932;P63000;Q16763;Q9NSE4;P26196;P14625;Q96T58;Q06609;P11413;Q7L3T8;O15111;P68133;  
Q9NPP4;O95363;Q14409;P04818;Q99832;Q8N335;Q9UGM6;Q58FF7;O60841;P35637;Q13363;Q9UKX2;P  
49368;P23919;O95453;Q96S55;Q9HAN9;P35558;O00762;Q8TE04;O00148;P38159;P49902;P12757;P0  
7864;Q16740;O75351;O96033;P60842;P78371;Q02241;Q96I59;Q9NYK5;P13010;O43913;Q16540;Q9  
P81;P21675;O00159;P84103;P12081;Q5IOG3;Q86V81;P57772;P48643;Q9Y2K3;Q14164;P53396;P233  
81;Q9Y5S9;P51003;Q5TCQ9;Q12873;O95628;P50750;P26599;Q92900;P50613;Q92841;P49427;P3307  
6;P49590;P23025;P07814;P62847;P23588;Q9UM54;Q9HOS4;Q9Y285;P41252;Q15029;Q86UW6;Q9P2N5  
;P11055;Q86WI3;Q5JTZ9;P11802;Q9Y6K5;O15056;P34932;Q9P0M2;O94921;Q15233;Q9BTE6;P61586;  
Q9Y295;P31483;P23246;Q6ZRS2;P29728;P23258;O00425;O75821;P12277;Q58FGL;O60318;Q3L8U1;Q  
7L2E3;Q8TCD5;Q15056;P63279;P60953;P49459;O14656;Q14204;P35270;Q9ULG1;Q9BYX4;P11940;P3  
5251;Q969T4;Q15257;P20585;P40939;O00139;Q9NZI8;Q5JPH6;Q9H4L7;O43776;Q6ZMR3;Q9Y3D8;P38  
935;O95396;P40926;P32189;Q15031;O14556;Q01844;O43318;P14868;P08579;O43390;Q9Y2S2;O953  
47;Q8N684;P49591;Q9HCE1;P51965;P15170;Q13057;Q16630;P25205;P61077;Q9H089;Q9UPQ9;Q0795  
5;P18615;Q9NZC7;Q9BYK8;Q2VWA4;Q9P2R7;O76031;O60825;P55795;Q8N3C0;P50740;Q9H3H1;P52298  
;P52272;P62253;Q14566;P41091;Q53GL7;P30793;P07910;Q92698;Q9H1B4;Q00534;Q8NE71;Q9UHX1;  
Q13233;P35580;O43681;Q96Q89;Q9BUP3;Q15696;P13639;P21127;A4D1E9;Q00536;P08621;P56192;Q  
9HBL8;P14618;Q8WXF1;P61086;Q14103;P28370;O96017;Q14978;O43542;Q14151;P49336;Q9HOA0;P2  
6639;Q9Y2X8;P13535;Q9BRS8;P46100;P38919;Q9UNY4;O43615;Q9BZQ4;Q9NVP1;Q13243;Q14240;Q15  
427;P54577;P52597;O43502;A2RTX5;P24941;Q05519;Q76FK4;Q9HCK8;P38646;P19367;Q49A0;P300  
43;P10809;O60264;Q9BPX1;Q9UHI6;P12882;Q9NRF8;Q8NDV7;P11388;Q01081;Q96PK6;P33240;Q9HA7  
7;P62736;Q8IYD1;Q58FF6;P49588;P12755;Q96GW9;P23921;P13984;Q15424;Q9UI36;O75494;O75943  
;P11387;P12883;Q15287;O75582;P62826;Q9BZ23;P43243;P31943;Q92499;Q96I25;O00442;Q9H2U1;  
P09012;Q14683;P42025;Q9NUU7;P07327;Q16822;Q15759;Q16526;O60506;Q96I99;Q58FF8;P55884;Q  
9Y6M1;Q969M7;Q9UMR2;Q7Z406;P45984;Q9ULW3;Q5T160;P47897;P17987;Q9BW92;P46013;Q6PI48;Q0  
8211;Q96BT7;P13533;P12270;Q9NWZ5;Q9NVN8;Q8NDT2;Q5D0E6;P16118;Q92804;Q9UKV3;Q92614;O14  
727;Q712K3;Q00839;P50570;Q16698;P35998;Q9Y623;P62256;P22392;Q14011;Q9UN37;Q9BZE4;Q9HC  
J0;P50991;O14646;Q13148;P22626;Q8N4C6;P51668;O43251;O14757;Q9H4D5;Q9NSD9;Q9BYZ2;P2664  
0;Q15046;P17812;Q02040;P62750;Q14568;P51531;P48163;Q9UNP9;P08107;Q5EBM0;Q9Y2W1;Q86U42  
;P63261;Q9NVV4;P19338;Q5ST30;Q9Y5Y2;Q9BYG3;O43236;Q13838;Q8NFF5;Q14498;P61081;  
Q9NTK5;Q8NG50;Q13287;O15042;Q96LR5;O14920;Q93062;P59047;P04406;Q8WVV9;Q8IYD8;Q05639;P  
11586;P00558;Q86WJ1;Q03468;P35749;Q16798;Q96T37;P49756;Q14966;P63146;P12956;Q5VTE0;Q1  
6629;P31749;Q14839;P61088;P14866;P07195;P51553;Q9UBU9;Q9Y2Z4;Q96EP1;P51532;Q9BVP2;Q99  
741;Q0VDF9;P36404;P55072;Q9H0P0;Q01130;P17980;Q13415;P11142;P60604;Q9UHN1;Q9C000;Q9P2  
J5;Q9H1J1;P21695;Q9NZL9}

4902 Pathogen[ P03346] interacts with 378 human  
partners:{P08107;Q9Y5S9;Q9BZI7;P59047;P23381;Q15427;Q15058;P51991;P46063;Q86U42;O1504  
2;Q9NRZ9;P45984;Q00536;Q9P0M2;P38935;Q8WXF1;P50570;O15111;P12270;P12956;Q06609;P04406  
;Q08170;P07900;P41091;P68036;O96017;Q93062;Q9P2K5;P46100;P09651;Q12840;Q9NX02;Q8IWL9;  
P12757;Q9ULW3;P14866;Q9BZE4;P23258;Q16836;P57772;P14625;P11388;O43502;Q14011;Q9BUP3;P  
21127;P49427;P35579;Q96I25;Q9Y6M1;O00425;Q8WYJ6;P62736;O14656;P51532;Q9P2N5;Q9UMR2;Q1

3148;Q92614;Q92841;Q5TCQ9;Q9NZL9;O00139;P08579;P07814;O60841;Q9BPX1;P55795;O95628;Q4G0J3;P43243;P49336;Q8WVV9;Q14527;Q53GL7;P35250;Q9ULG1;O43615;P24941;Q49AN0;P0DJ3;Q14498;O60506;P23246;Q8TD26;P78371;Q9NZI8;Q15257;P13010;P19367;P60709;O60318;O14757;O95347;P38919;Q14141;Q7L2E3;P33076;P07910;Q8N684;P11142;Q9H1H9;Q9UHN1;Q15056;P08621;Q8IXT5;P11940;P60953;Q13242;P31943;Q9NVP1;Q00839;P63279;Q16526;Q13247;P19338;O43376;P55884;Q14204;Q14646;P49459;P26599;Q13287;Q8211;Q9Y2X8;Q92698;P52298;Q9HAN9;O43390;Q86202;Q16629;O75821;P60842;P55072;P22626;Q2VWA4;P51668;Q9BUQ8;Q07955;P41252;Q9H1B4;P61077;P62826;Q9UKV3;Q8N3C0;P11802;O76031;A6NDB9;O15056;P61088;O95453;P52756;Q9H2U1;O75943;Q14103;Q9BWF3;P41250;Q7Z333;Q14566;Q92879;P25205;Q12926;P38646;P35637;Q92499;Q14151;Q86V81;Q9Y295;Q14978;Q9Y285;P20340;Q9NTK5;A6NDE4;O43236;O14556;Q8NDT2;P13984;Q9NPP4;Q96S55;Q86UT6;Q15020;P60604;P51003;O75643;P31749;Q93468;P51965;P31483;O15315;Q92599;Q9P2J5;P63146;Q14683;Q15019;Q9BY77;Q86WI3;Q9NZC7;O60264;P50991;O00762;P20585;Q9HCK8;Q8TD19;Q9UHI6;P49756;Q9NVV4;P50750;P49368;Q8IWT3;O43542;P33992;Q8NG50;P36404;P84550;P26368;P40926;Q96Q89;Q01081;P62837;Q14240;P54136;Q13415;Q9Y3D8;Q8IYD1;O75771;P42025;Q13838;Q9H6T0;P31942;Q9UNY4;Q13233;Q86UW6;O75582;O43251;Q9GZT3;P22392;P14868;P35249;Q9UNP9;Q9NPD8;Q3YEC7;O14979;Q0VDF9;Q5VV67;P49589;Q14966;Q6ZRS2;P00338;Q9Y5Y2;P42285;Q96T58;Q9NH9;Q9BYG3;Q9BYX4;Q96BT7;Q02241;Q14562;P33991;P09012;P84103;Q9NUU7;P23588;Q969Q5;Q9ULV0;Q15233;P52272;Q9H4D5;Q15287;P36405;P62750;P21675;Q05519;Q15759;Q01130;Q9H0S4;P07195;Q96PY6;P45985;Q9UBU9;Q8NE71;P26196;P51858;P32189;O75351;P34932;Q13363;P62847;Q8IYD8;Q9UKX2;P28370;Q6PI48;P23025;Q12873;Q13310;Q00534;P35251;P46013;Q9P2D1;P56545;Q15424;Q9UH8;Q14920;P62256;Q02040;Q9BYK8;O94921;Q9HBL8;Q13243;O43318;O00148;Q8N4C6;Q13283;O43933;P51531;P38159;Q01844;Q9UPQ9;P40925;Q15029;Q9UHX1;Q3L8U1;Q86WJ1;Q9UI36;Q8IY18;P29558;Q9HCE1;Q92900;Q9Y2W1;Q15696;Q32P51;Q99729;P40937;Q99741;Q9NVN8;Q9BRS8;P52597;Q92804;Q9NQZ3;Q9NQ94;O75494;O43929;O14727;Q6ZU15;P08238;Q96PK6;P63000;O14965;Q14164;P62995;Q96T37;Q86XP3;Q9Y6K5;A0AVT1;O43913;P18615;P33240;Q9NWX5;Q16630;P68104;Q96EP1;Q9BVP2;Q14839;Q9UN37;P11387;Q9H4L7;Q9UBP0;Q9BYZ2;Q76FK4;O43719;Q9C000;P61586;Q9NWB1;Q9H1J1;O00444;Q969T7;P17987}

4903 Pathogen[ Q85601] interacts with 336 human partners: {Q9HCE1;P61163;Q9BZI7;Q9ULW3;Q9NZC7;Q14978;P49756;O43913;Q00536;Q9NTK5;P54136;Q9NSD9;P08107;P62253;Q92614;O43502;O15315;P33076;P68133;Q96PK6;Q16763;P23025;P31749;P26639;P63146;Q9H0S4;O43390;Q02241;P14868;O96017;P36405;Q9P2K5;Q6ZMR3;O95347;Q8IYD8;P41091;Q13243;P50750;Q9BZE4;Q5VTE0;Q3L8U1;P13533;P57772;P49589;Q8IY18;Q9P2D1;Q01130;Q58FF8;O60506;Q14240;Q9UBU9;Q9UBP0;P49427;P35579;Q96PY6;P38935;Q9P2J5;Q13310;P23588;O15111;Q9P2N5;Q14103;Q14966;Q13148;Q9Y2X8;P07814;Q8N684;Q9BPX1;Q15424;P49336;Q49AN0;Q13415;O60825;P22626;P62826;Q9UHX1;Q15287;P12757;O00148;Q9HBL8;P63000;P23381;O60318;Q9H4D5;Q9UMR2;Q14204;Q7L2E3;Q9H1H9;P08621;Q969T4;Q8WXF1;Q86WI3;Q15046;Q13363;Q9BRS8;Q86V81;P19338;O43776;O14646;P55795;O75494;Q96B02;P17987;P18615;Q9NPD8;Q92499;Q9BW92;Q92698;P12270;Q16629;P32189;Q9Y285;Q2VWA4;Q08211;P51668;Q9HAN9;Q96LR5;P68036;Q07955;Q9H1B4;Q9H089;P21077;Q9P2R7;P63279;P16118;O43542;P12755;P30793;Q9HA77;P11802;Q12840;P38919;P60709;P32588;P51531;O14757;O75943;Q8NG50;P11387;P41250;Q14566;O14965;Q9BY77;Q5T160;P35637;O43681;P11940;Q9UKX2;Q9Y2K3;Q96Q89;Q14164;Q9Y6M1;Q14151;Q03468;P07864;P51532;Q9Y295;Q5D0E6;O00159;O75351;Q9Y6K5;P50991;P13984;Q8NDT2;P15170;O14556;P25205;P12882;P14618;Q9UKV3;P51965;Q13838;Q7Z406;Q9NVP1;Q14683;P63261;O14920;Q92804;O95628;O95453;Q15029;Q12873;A2RTX5;P20585;P52597;Q76FK4;Q9BYZ2;P11142;Q9UHI6;Q9UI36;Q15058;P08238;P11055;P68104;Q9H4L7;P50570;Q9NUU7;P61086;Q9BYX4;P35251;Q01081;Q6ZRS2;P11388;P35749;Q05519;O14656;Q8IYD1;O94921;Q9NYK5;Q9BYK8;O00425;O00762;O75582;Q5TCQ9;Q96I59;P22392;P60842;Q9ULG1;P61586;P12883;P50613;P49459;O43615;P07900;Q96T58;Q8IW19;P62847;P84103;Q8NE71;P26196;O95363;P40925;Q9P0M2;Q15233;Q9HCK8;P14866;P62837;Q15759;P45984;P07195;Q8WYJ6;O43933;Q96S55;P60953;P14625;A4D1E9;Q00839;Q9H832;P38646;P21675;P34932;Q16836;P47897;P28370;Q969M7;Q9Y5Y2;Q6PI48;Q96T37;P21127;O76031;Q86WJ1;P62750;P35580;P46013;Q8TD26;Q9H0P0;P62256;P52298;Q13233;P04406;P38159;P33992;Q9UM54;Q00534;P78371;Q86UW6;Q15696;Q96EP1;P23246;P26368;Q9NVV4;P41252;O43318;Q8N4C6;P13535;P48643;P51003;Q9UPQ9;O60264;P61088;Q16526;P19447;Q14527;Q92900;Q15257;Q9Y2W1;Q86U42;P31943;P60604;Q14568;Q99741;Q0VDF9;Q9NVN8;Q06609;Q9UHN1;Q9UN37;P00338;Q9BUP3;P24941;Q14498;Q9Y623;P62736;P42025;Q05639;Q9BVP2;Q53GL7;O75821;Q9UNY4;O00139;P46100;P40926;P33240;Q01844;P51955;O43236;Q9Y5S9;Q14839;P13010;Q13287;P12956;Q8N3C0;P19367;P59047;Q9H1J1;Q93062;Q9H2U1}

4904 Pathogen[ P14079] interacts with 428 human partners: {P31751;Q8TE04;O43615;O43196;P11388;P35579;Q9Y285;P48643;P62333;Q14004;O15315;Q9H0P0;O00442;P23381;P20585;O95628;P26639;P33076;Q96I25;Q8WVV9;Q15287;Q9NPH2;Q9H0S4;O14841;P51965;P60842;P12755;Q96EV2;Q9ULG1;Q96GW9;O95544;Q9P2J5;P63261;Q15056;P11142;P55039;Q9BYK8;P63279;Q9BVP2;Q96T37;Q8NFF5;P0C7P3;Q9BYX4;O75879;Q5EBM0;Q7L3T8;Q9BTE6;Q14566;Q9BW92;O43716;Q9H0R6;P29728;O43187;O75821;Q16526;P35637;P53779;Q9H4K7;P25705;P54136;Q9NRG7;Q6ZMV9;P49336;Q13148;Q9Y3A4;Q13415;P68036;P00338;Q9H0A0;P22234;P52564;Q9626;Q92614;Q9H4D5;Q8TCD5;P17812;Q8N3Z3;Q9UJ70;Q15031;Q14103;Q8IYD8;P68104;Q5T160;P49842;P40937;P62847;P13010;P41091;O75582;Q14151;Q969T7;Q12840;Q499Z3;Q14410;Q9UNY4;P52298;Q9P0M2;Q92804;P52209;Q9HCE1;P57772;Q9H1J1;P28370;Q49AN0;Q7L2E3;Q5ST30;Q9H4L7;Q13243;Q9Y5S9;Q96DU7;Q9NPD8;Q02241;P50991;Q8NG50;Q14204;Q2VWA4;O15514;Q9C000;Q9NPF1;P33240;O43913;P60604;P47897;O95363;P51532;Q14164;P49591;P26368;O14646;A2RTX5;Q93062;A4D1E9;Q9NWX5;Q92698;Q14966;P32189;Q9H773;P51531;P14866;P14868;P23246;Q9UBU9;P07910;Q9UBU9;Q13310;Q13838;P78371;Q7Z4S6;P68363;Q6ZRS2;P46199;Q15029;P50990;Q13472;Q9UKX2;Q9H1B4;P18615;Q32NB8;Q9UM54;Q9P2R7;Q9UHI6;Q14240;P35998;Q9NZL9;Q14409;Q14498;P30793;Q15427;P61077;Q08211;Q9UHX1;O95453;P23025;Q16740;Q9NQ94;Q00839;Q9BY77;O00178;Q9HA77;Q12873;P50570;A6NDB9;P07195;Q8IYD1;P23588;Q9BUP3;P45984;Q9BZE4;Q9NRF8;P46100;O43776;P43243;Q5JPH6;P62256;Q96RP9;O75648;P19338;Q0VDF9;P45983;Q99741;P68032;O15066;Q16629;P50613;Q9P2D1;Q8TD26;P26599;P36405;P55795;O96033;P12956;Q9ULW3;Q99661;Q8WYJ6;Q6ZMR3;P35250;P23919;O14656;Q8NC60;P49756;P49589;P51668;Q9Y3T6;Q14692;P51955;O75943;P12270;Q9BZ23;Q9H6T0;Q1

5046;Q02040;P22392;Q8N4C6;Q9NZC7;Q16644;O60318;Q9UKV3;Q9HCJ0;O43681;Q9BZI7;O95347;Q8I  
VS8;P11940;Q9BZQ4;P62750;Q96Q89;Q9BY32;P26196;Q96S55;Q05519;P41252;Q15759;O60282;P082  
38;Q9Y6K5;P61158;Q969M7;P17987;P08107;P08621;P45985;Q13057;O00139;Q8N684;Q8NE71;Q1505  
8;P63267;Q86UW6;Q9BRS8;P35251;P49459;P41250;Q86WJ1;P23258;Q86V81;Q86U42;Q96I59;Q15424  
;Q9NVV4;Q9H1H9;O00148;Q16630;P07864;P26640;P61586;O60506;P07900;Q15696;Q9Y5Y2;P09012;  
P60709;P13639;P56192;Q9Y6M1;Q9HCK8;Q9NSD9;Q71RC2;Q9NWX6;O60264;Q9UI36;Q5RL73;Q969S9;P  
21117;Q07955;P49902;P12883;O43502;O43929;Q9NNTK5;Q9Y2Z4;P61163;Q9HAN9;Q9UN37;P33992;Q6  
IA69;P14625;Q92628;Q86Y91;P49915;Q8N442;O60841;Q9BXI3;Q5T7B8;P53602;P31943;Q14839;Q9Y  
2X8;Q86UT6;Q01081;P49427;P13984;Q9BYG3;P38646;P62191;Q9UGM6;Q92900;O15042;Q8IY18;Q924  
99;Q96FC9;Q9NSE4;P62837;Q14011;Q9UQE7;O15067;Q13164;P42025;Q53GL7;Q03468;P38935;P1275  
7;P52597;O43390;O00762;Q5D0E6;P21695;Q96Q11;O75351;Q9P2N5;Q9NWB1;P43686;Q86WI3;O00425  
;P51003;P62826;O76031;Q9H3H1;P52701;P49588;O95235;P49368;P40925;Q9UHN1;Q6PI48;P52756;  
O75494;Q15233;Q06609;Q14683;Q9NVP1;Q9NYK5;O14965;Q9BYZ2;Q13287;Q9Y239;O75616;Q969P6;P  
04818;P63146;P68133;P25205;Q92615;P59047;Q05932;Q8NDT2;Q96C10;P17980;Q9Y2W1;Q96PK6;P0  
7814;P19447;O43542;P49411;P31483;P22626;O43236;P84103;P49917;Q9H999;Q9H089;P21675;Q9U  
PQ9;P38159;Q14978;Q3L8U1;Q8NDV7;Q96T58;Q53F19;P50750;Q7Z5L2;Q16836;Q9Y295;Q9NPP4;P044  
06;Q9BYX7;P55884;P46013;Q8IW19}

4905 Pathogen[ P03383] interacts with 253 human

partners: {P08107;Q14683;Q9H1B4;Q9NYV4;Q9NVV4;Q9UHN1;Q9Y285;Q14978;Q9UBU9;Q07955;O1475  
7;Q15287;Q06609;Q14839;O75582;O75494;P33076;P51003;Q9P2J5;P13010;P40926;P14868;Q9H0S4  
;O43390;A6NDB9;Q02241;Q9NVN8;P19338;Q02040;Q13233;Q9UNP9;P51965;P62750;Q9H4D5;Q5D0E6;  
P22626;Q8TD19;P14866;Q15029;P38646;Q9NWX5;P57772;P12270;O14920;Q9UPQ9;P19367;Q15257;Q  
13838;P00338;Q8NE71;Q9Y5S9;Q9BYZ2;Q9NNTK5;P49427;P31749;P55795;O43236;P42025;Q9Y295;Q5  
JPH6;O15111;P07864;Q9Y2X8;P49589;Q5T160;Q15031;P25205;P60953;P46013;Q8IW19;O43615;Q16  
836;P28370;Q9P2R7;P22392;Q9NP81;Q92841;Q9UHI6;P63000;P40925;O00762;O60318;Q9ULW3;O953  
47;P38919;Q00536;Q9BZE4;O14646;P26368;Q13243;O60841;Q8WXF1;P11387;P26196;P11940;P3194  
3;Q86V81;P07900;Q96S55;Q00534;Q9BRS8;P11802;O43318;P38159;P61077;P21127;Q9H1H9;P62826  
;O43913;O95628;Q16629;P61088;Q13287;Q9BTE6;P46100;Q16822;Q8N684;P23588;P49336;Q9HAN9;  
Q12873;Q9UHX1;P33240;Q96PK6;P84103;P50613;P13984;P23381;Q9H6T0;P60604;O14556;P07195;Q  
6ZMR3;P61586;P35637;Q9UKV3;Q03468;Q01130;Q8WVW9;Q96I59;P24941;P23025;Q9UKX2;Q15046;Q1  
4103;A2RTX5;Q53GL7;P49756;P68104;P50750;P04406;Q9Y2Z4;O95363;P51531;P14625;Q96089;Q01  
081;P62837;P07814;Q15759;Q8IYD1;P11142;Q96GW9;Q9BY77;O94921;P12883;Q9Y6K5;Q9BZ23;Q5TC  
Q9;Q9HA77;Q96T58;Q9H832;P35580;P52298;P78371;O14965;P09012;Q3L8U1;Q86WI3;Q9HCK8;Q0551  
9;Q96PY6;P21675;Q9BUP3;P68036;P32189;O43776;P49459;P45984;P51532;Q6PI48;O76031;Q8NDT2  
;Q15233;P12757;P35579;Q9NPD8;Q13310;O43542;P38935;Q14151;O00425;P62256;P63146;P23246;  
Q13148;Q15424;Q96EP1;P41250;Q92499;Q8N4C6;Q01844;P62847;P41252;Q9UI36;P54136;Q9HCE1;Q  
5EBM0;Q9Y2W1;O95453;Q86U42;Q9NSD9;P49591;Q9UN37;Q92900;Q7L3T8;P08238;Q00839;Q9BVP2;P0  
8621;Q9H0A0;Q9BYK8;Q9UNY4;O75821;P52597;P63279;Q86UW6;P18615;Q13363;P51668;Q99741;P12  
956;O00148;A4D1E9;O96017;P35251;Q9BPX1;Q9BZI7;Q9H1J1;Q14498;Q9BW92;Q93062;Q16526}

4906 Pathogen[ P03410] interacts with 444 human

partners: {Q9Y6G9;Q9H4K7;O75648;Q13838;Q8IVS8;Q9Y2W1;Q86Y91;Q14204;Q9NVN8;Q9P2R7;Q9NPH  
2;P23025;Q9UI36;Q71RC2;Q96Q11;P53602;Q9BYZ2;Q9UPQ9;P23246;Q96P26;Q96Q89;Q9Y285;P17987  
;Q00839;P25205;Q15427;Q9HA77;Q16822;O43929;Q12873;Q01081;P49368;Q9UNY4;Q99832;Q96DU7;  
Q15058;O14920;P26368;P68104;O14556;Q9H4L7;Q14103;P20585;Q9NSE4;P56192;O15042;P62736;Q  
96PK6;Q9UKX2;Q8NE71;Q9Y239;Q9BTE6;Q8N3C0;O95628;P48643;P18615;Q93062;O00442;Q15029;O6  
0841;Q9BPX1;Q15696;P49915;O75943;Q92804;Q9Y3A4;Q8NFF5;Q9NWB1;O00139;Q8TE04;Q16540;P38  
646;Q00534;Q92698;Q16629;Q8IYD8;P12755;P29728;O75879;P63000;Q92900;P22626;Q15233;P082  
38;Q9NRF8;P11940;P49589;Q5ST30;Q9NVP1;P49427;P25705;O15315;Q13057;P17812;O75351;Q9H1H  
9;O14656;Q15287;Q53GL7;P16118;P46013;Q9BW92;P21675;Q9UQE7;O15111;Q9H0A0;Q92614;P35998  
;P51965;Q14692;Q9ULV0;O43542;O60282;Q9BYK8;P49588;Q9Y5S9;P54136;Q9NNTK5;O14646;Q7Z4S6;  
O75582;Q76FK4;Q96RP9;Q14410;Q9NZC7;P35637;Q5TCQ9;Q15257;Q9H773;O43187;P14625;Q14978;P  
23381;P46199;Q9HCJ0;P36405;Q9BYX4;Q9P2K5;Q9ULG1;Q8NG50;Q8NDV7;O00159;Q6ZMR3;O00148;P4  
9459;Q9NWX5;Q7L3T8;O43776;P62847;Q96T37;P11142;P31749;P35579;P59047;Q969S9;P26599;P50  
570;P07900;Q96S55;Q9NPP4;Q9C000;P47897;Q9Y5Y2;Q9H3H1;Q9NYK5;P68036;P14868;Q9H0S4;P610  
88;Q13233;P30793;Q03468;P13639;Q6ZU15;Q12840;Q9NVV4;Q8NC60;O15514;P07195;Q9Y295;P5061  
3;Q9H1J1;P14866;Q9P2N5;P61163;Q5D0E6;P09012;Q96T58;Q8WVW9;Q9BZI7;Q15424;Q9HBL8;P33992  
;P23919;P62750;Q9NSD9;Q9BY32;O14841;Q86UW6;P22234;Q8N442;O95347;P51003;Q5RL73;O14965;  
Q13148;Q9P2J5;P08621;P55884;P49591;Q9H4D5;P50750;P52209;Q0VDF9;Q86WI3;Q9UM54;O60333;O  
43318;Q9UMR2;P12956;O76031;Q92628;P07910;P08579;Q6ZRS2;Q86UT6;Q9P0M2;Q9BXI3;Q14966;Q1  
3472;P38935;P35251;P49756;Q05519;Q13287;Q9UKV3;P52701;Q53F19;Q6ZMV9;O95453;P12270;P12  
882;P43243;Q499Z3;O43236;P45985;Q9NUU7;P62826;P26639;O43502;P15170;Q9P2D1;P50990;Q2VW  
A4;P61586;Q07955;P52597;Q7Z5L2;P08107;P52298;P04818;P24941;Q96I59;P31943;P62256;Q9249  
9;P00338;Q9UN37;Q15056;P11802;Q9BYG3;Q9HCE1;P33240;Q9UHX1;O43615;P19447;Q8IW19;P63146  
;P11387;Q14683;P41250;Q8WXF1;P12883;O15067;Q7L2E3;Q9BUP3;Q8NDT2;Q86V81;Q9HCK8;Q9Y2X8;  
P31483;P19338;Q9H089;P52272;Q16526;Q8WYJ6;Q9BVA1;P12757;Q96017;Q5EBM0;Q9UBU9;Q8N4C6;Q  
9H0R6;O14757;Q15046;P51668;P68133;P46100;Q49AN0;P60842;Q9H1B4;Q9UHD8;Q14011;P51532;P3  
8919;P04406;Q9BZ23;P49336;O43196;Q14409;Q86WJ1;Q5JPH6;Q16836;Q9HAN9;P11388;Q8TCD5;P51  
531;Q9Y6K5;Q8IYD1;P57772;O60318;P60953;P42025;Q01130;P40926;P35580;Q9BVP2;A4D1E9;O960  
33;P45984;O75821;Q9ULW3;Q9H6T0;Q9NPD8;Q3L8U1;Q96C10;P23258;Q9UGM6;P41252;P53779;O0042  
5;O00762;P68363;Q9BY77;Q9Y2Z4;Q9H0P0;Q14151;Q8IY18;P13010;P63279;P13984;P26640;P78371  
;Q96GW9;Q8N684;Q9UNP9;P41091;Q14498;Q969M7;P63261;P33176;P13533;O60506;Q96FC9;P07864;  
P07814;P60604;P40925;P35250;P32189;P84103;Q8TD26;Q9NP81;Q16630;Q86U42;O00178;P55795;O  
60264;A2RTX5;Q16740;O43913;P40937;Q13243;Q9Y3T6;Q14566;P13535;P38159;P23921;Q05932;Q1  
4839;Q9UHN1;Q9UHI6;Q08211;O43681;Q6IA69;Q9NWX6;Q9BZQ4;A6NDB9;Q13310;O95363;P33076;Q6P  
I48;Q5T160;Q9BRS8;Q96EP1;Q9NZL9;Q9BZE4;Q92615;O43237;Q96I25;Q8N3Z3;P23588;P17980;Q5T7  
B8;P60709;P49411;P49902;P28370;P50991;P61077;P62837;Q06609;Q14240;Q02241;P21695;Q9Y6M



- 1;Q969T7;O43390;O75494;Q13415;Q99741;O75616;Q02040;Q9H2U1}  
4907 Pathogen[ P14075] interacts with 260 human  
partners: {Q9Y2Z4;P60953;Q3L8U1;O95453;P11387;P49336;P60604;P54136;Q15257;P51003;P22626;Q14646;Q9BUP3;P40925;Q05519;P14866;Q8WXF1;P13984;P19338;Q92900;O15111;O60841;Q9NYK5;P23246;P12956;P11142;P21675;Q9H1H9;P24941;P49902;Q14683;P41250;Q5D0E6;P08621;P23205;Q02241;Q9Y295;P23381;P68036;Q9H3H1;P18615;Q86W13;P11802;P68104;Q9NWZ5;Q15759;Q14103;O75648;Q86V81;P57772;Q13243;P62837;P23588;Q9UKX2;O43236;P49756;P49427;P51532;Q9H0S4;Q9UNY4;Q9NSD9;O75582;Q9UHX1;P61088;P26196;Q8IVS8;P32189;A4D1E9;Q9NVV4;P49459;P50613;Q13287;Q16822;Q96T58;P38159;P38935;Q86UW6;Q14839;Q9NVN8;P51965;Q01844;P41252;Q00534;Q9HCE1;P33076;Q01130;P50750;P19367;O75821;Q9UNP9;O95363;Q93062;P31943;P40926;P78371;Q02040;O75494;Q5TCQ9;Q9Y2X8;P62750;P63279;P12270;O43390;P08238;Q13148;Q13057;P38646;P61077;Q96GW9;P07195;Q9H0A0;Q9UKV3;Q9HA77;Q9NP81;Q15029;O95347;O76031;P12757;Q9NPD8;Q03468;Q9Y285;P07900;Q92499;P11940;Q9NTK5;Q00839;O14920;O95628;P16118;P46100;Q9UHI6;P31749;Q9BTE6;P04406;O00762;Q13310;O00139;Q7L3T8;P33240;P56192;O96017;Q96PK6;P25205;Q9UPQ9;O14965;Q15424;A2RTX5;Q15287;Q9HCK8;Q8TE04;P62847;Q9BW92;Q8IW19;O43776;O43318;P51531;Q16836;P49842;Q9ULW3;P26368;P35251;Q9Y6K5;Q01081;P07864;Q8NE71;P62826;Q14151;Q8IYD1;Q9BRS8;P21127;P35579;P14868;Q5T160;Q9P2J5;P28370;P61586;O43542;Q9BZ23;O43913;Q15233;P63000;P09012;Q8NDT2;Q9BZE4;Q9UHN1;P00338;P26639;P08107;Q92841;Q9Y5S9;Q9UI36;Q16526;Q96PY6;Q9BYZ2;P35637;Q6PI48;Q99741;P84103;Q96I59;Q13363;P62256;P63146;P13010;Q9UBU9;A6NDB9;Q9HAN9;Q96S55;Q9H1B4;P49589;P52597;Q8N4C6;O00425;P30793;Q5JPH6;Q13233;P38919;Q15046;Q8N684;Q9H4D5;O94921;Q9UQ88;P14625;Q5EBM0;Q8WVV9;Q9Y2W1;Q13838;Q86U42;P51668;Q9NVV4;Q12873;Q9NSE4;Q16629;P46013;Q96Q89;Q15031;P49591;P42025;Q9BYK8;O00148;O14757;O14556;P22392;Q14978;Q06609;P07814;O43615;Q14498;Q53GL7;Q96EP1;Q9BVP2;Q9BY77;Q9P2R7;Q9UN37;Q07955;P52298;Q9H6T0;Q9BZI7;Q9H1J1;P45984;Q8TD19}
- 4908 Pathogen[ P0C206] interacts with 412 human  
partners: {P49589;O95363;O43542;Q16763;Q9C000;Q9UNP9;P41091;Q9Y2X8;O43502;Q15287;Q9H0S4;P48643;Q9NSE4;P07195;Q9H4L7;P33240;P07814;Q9P2N5;O43933;Q9NPD8;Q0VDF9;O00148;Q9UN37;Q9HCK8;P60709;Q96T37;Q14103;P13010;P49336;Q9UM54;P31483;Q9Y295;P62253;Q9BZI7;Q9UHN1;Q9BYG3;Q07955;Q6ZMR3;O14920;P26368;P52298;O95453;P38935;P07864;P31749;Q8TD26;Q9Y2Z4;Q9NVN8;Q9BUP3;Q96Q89;Q9NUU7;Q01081;P51532;P35251;Q9UBP0;Q9NZL9;Q9Y3D8;P50750;Q15696;Q15019;P13533;O96017;Q9BVP2;Q86WI3;Q14692;P62736;P22392;Q9Y623;P68036;Q969M7;Q14966;Q9UNY4;P41252;P51955;Q6PI48;P25205;P52701;O75582;Q96EP1;Q05519;Q15233;A6NDB9;P45984;P51531;O43913;Q5ST30;Q08211;P62750;O43681;Q2VWA4;P09012;Q8TE04;Q16836;Q13057;Q9Y6K5;Q9BY77;Q5TCQ9;P14866;P34932;Q8IYD8;Q00536;Q9P2D1;Q8N684;P46100;P46013;Q8IYD1;Q9BRS8;A2RTX5;Q14011;Q5EBM0;P26196;Q9UGM6;Q03468;Q53GL7;O43318;Q96PY6;P19338;O00444;Q5JPH6;Q9NP81;Q9UPQ9;P29728;Q16822;Q13243;Q16629;Q86U42;Q8WVV9;Q6ZRS2;O43390;Q96LRS;P62837;O60318;Q9HA77;Q9Y5Y2;Q9P2R7;Q01844;P50991;O75494;P49902;P62826;Q9NWZ5;P51003;P22626;Q9BZ23;P41250;P17987;Q8TD19;Q02040;Q9H1H9;Q13287;P30793;P11055;P19367;O43237;Q99741;Q8NDV7;P32189;P49427;P33076;P26640;Q14141;Q02241;P38646;Q13233;Q9UHX1;O43236;O94762;O95628;P49591;P13984;Q9BY32;O75943;P12755;P61586;P19447;O43776;P61163;Q96DU7;Q7L2K3;Q9HCE1;Q14839;P30291;P51965;P23246;P68133;Q86Y91;Q9BYK8;O43615;O14646;Q6ZU15;Q9BXP1;P61088;Q8WYJ6;Q9Y285;Q9H089;Q14204;Q14164;P49917;Q16526;O15514;O60841;P12883;Q9H4D5;P08238;Q7Z333;P38159;O60506;Q9UQE7;P60604;Q9NSD9;Q13310;P50613;O95347;P59047;P63000;Q9ULW3;Q13838;P12757;Q9ULG1;Q9UBU9;Q5D0E6;P18615;O14556;P52597;P07900;P49459;Q16630;Q9P0M2;O00159;Q9P2K5;Q14683;Q9BTE6;Q8WXF1;P63261;O15315;O14656;Q8TCD5;Q16740;Q9Y6G9;Q96PK6;P12882;P40925;P35637;Q9H0P0;O15111;Q76FK4;P57772;Q9BZQ4;Q5T160;Q9NVP1;Q9Y2W1;P62256;P04406;Q9BW92;P35749;P40926;P49916;Q9H1B4;Q96S55;P08107;P35579;Q969T4;O00762;Q92614;Q9UKX2;Q92841;P55795;Q9NVV4;Q92804;Q15424;P56192;Q12840;P55072;P60953;Q14240;P23258;O00139;Q9NTK5;Q9BZE4;P04818;P28370;Q13148;P45985;Q14527;Q96T58;Q8NE71;O60825;Q9HAN9;P36405;Q9H3H1;A4D1E9;Q9H6T0;P43243;P54136;P84103;P23588;Q86WJ1;P49368;Q92900;Q15058;Q9NZC7;P16118;Q13415;P26639;Q9H832;Q53F19;Q86UW6;Q9H2U1;Q9NRZ9;Q9BYZ2;Q06609;Q14151;P20585;P21127;Q15031;P11388;Q9UHI6;Q16181;Q8IW19;P61077;O15042;P49756;Q9UMR2;Q9NYK5;P84550;P11387;Q9BXY4;P38919;P61086;O75821;Q96C10;Q7L3T8;O14965;Q93062;Q13363;Q9P2J5;Q8N4C6;O76031;O75351;P08621;Q9AN0;Q01130;Q96B02;P60842;Q92499;Q8IY18;Q9Y6M1;P35580;P12956;Q9BW19;P00338;P42025;Q00839;P13535;Q14498;Q9UI36;Q8IVS8;P24941;Q15759;P23381;P15759;P23828;P11940;Q14566;P11142;Q9NTJ3;Q7L2E3;P11802;Q13472;P68104;Q15257;P23205;O94921;P47897;P14868;P62847;P78371;Q9HBL8;Q9H0A0;P31943;Q9BX63;Q8NG50;Q969T7;P50570;Q99640;Q8N3C0;Q92698;P33992;Q96GW9;O95396;P14618;Q9Y5S9;Q86V81;Q12873;Q99986;Q9UKV3;Q9UIG0;P21675;O60264;Q14978;Q96I59;P12270;Q05932;P14625;P63146;Q8IWT3;O00425;Q8NDT2;Q15046;Q00534;Q3L8U1;Q9H1J1;Q15029}
- 4909 Pathogen[ P03363] interacts with 414 human  
partners: {Q15020;Q14978;Q9Y2Z4;Q9Y6K5;P51858;P12956;O94762;Q16836;Q9BX63;Q15233;Q9ULW3;Q8IW19;Q9NVN8;Q9H832;Q3L8U1;Q13151;Q9NVV4;Q13595;Q96EP1;P51965;P62750;Q9H4D5;Q9BUP3;P19338;Q9NWH9;P23246;Q96T58;O43933;P60604;Q7Z333;P54652;P38919;Q5T8P6;Q9NWZ5;P0DJD3;P41252;P07900;P62847;O14920;P12270;P49459;O75643;Q8IY21;Q9NSD9;O95628;Q9ULG1;Q9HCE1;O95453;Q2VIQ3;Q13148;P13984;A2RTX5;O00762;P60709;P52597;Q9C000;P21127;Q92900;Q9NW13;P33176;O60841;P35579;Q9UHI6;P09012;P11387;Q9UKV3;Q9H4L7;P22314;Q969T7;Q08170;P40925;Q969Q5;Q96I59;P13010;P14868;Q9HAN9;P51991;P12757;Q7Z569;P25205;P61081;O43347;O95347;P14866;P49589;Q9UKX2;Q92879;P35637;Q13283;Q6ZRS2;O15111;P41250;P51532;P09651;P08579;P62736;Q8IY67;Q9NX02;Q9NUU7;Q8IYD1;Q15056;Q96BT7;O75526;P50570;P29558;Q9NTK5;O00425;Q16629;P68363;Q96I25;Q14204;Q9BZE4;P56545;P35251;Q9Y295;P23205;Q02241;P47897;P68133;Q16630;Q4G0J3;Q15427;Q5JPH6;O43318;Q01130;Q86UW6;O43776;P24941;Q9Y6M1;O15047;Q8IVS8;P63146;P49756;Q9BYZ2;Q14839;Q9UBU9;P11940;Q86U42;Q7Z4S6;Q9BWF3;Q32P51;P49427;P63000;P23381;Q8NDV7;Q14807;Q92620;Q9H0S4;Q8WYJ6;Q9UNY4;Q9NVA2;P41091;Q96PK6;P23588;Q99729;P57772;Q9P2N5;P18615;P33992;Q9P0M2;P46100;Q05519;P50991;P52272;Q6ZMV9;O96017;Q8N9W6;Q15029;Q9NX07;O60264;Q15287;P61088;O75351;O60282;Q8N684;Q5VV67;Q9BXP1;Q13748;Q9Y3B4;Q00534;Q1542

4;O43615;Q92904;P61163;Q14562;Q13242;Q96J87;P20585;P54136;Q9HCK8;Q9UN37;Q8IYM1;Q9NUL7;Q9UI36;Q49AN0;P38159;Q92599;Q9BY77;P08107;Q92841;P26368;Q13415;Q14240;P46063;Q9GZT3;P34932;Q15717;Q9UPN6;P31943;Q9NZI8;Q9BTE6;Q9BX46;P31749;O14979;P51003;Q14527;Q86WI3;Q6PI48;O00148;Q9Y3D8;Q99741;Q9HBL8;Q13472;P38646;Q9HCE1;Q5TCQ9;Q96LT9;Q13310;O60318;Q14966;O15056;Q13243;Q8IYD8;Q86V81;P07910;Q9NWB1;Q5T7B8;P17987;P04406;P31942;Q9UHD8;Q92499;P49336;Q14011;P62256;P52298;P26196;Q13838;Q9UHX1;Q02040;P08621;Q9BYK8;P59047;P43243;Q969T4;O95363;Q9UPS6;P63279;Q9P2K5;O43542;Q96T37;P22626;P42025;O76031;Q96S55;O60812;Q9BRS8;O15066;P26599;P51668;Q92614;Q9BYG3;Q9UBE0;Q9UPQ9;P21675;O14646;P33076;Q14103;Q9UMR2;Q01844;P55795;Q9P2J5;Q16526;Q92804;P60842;Q86XP3;Q9NPD8;Q03468;Q9UKM9;O95319;Q9BW92;P50750;Q8TD26;Q15257;P84550;Q07955;P63261;P49591;O60506;Q96E39;Q01081;Q9Y285;P78371;Q8NE71;Q9BYX4;Q9BVP2;Q9BZI7;Q2VWA4;Q969M7;Q9Y5Y2;Q8IWT3;Q13247;O75771;Q12873;P05455;P28370;Q6ZU15;Q15058;Q5SZQ8;Q06609;Q7L3T8;A6NDE4;P61077;Q96Q89;Q9UHN1;O60333;Q9NQZ3;Q7L2E3;Q9NVP1;Q15031;Q00839;Q13363;P84103;Q14498;Q9H1H9;Q8N4C6;Q9Y2X8;P62837;Q9NP4;P31483;P11802;P46013;Q9H2U1;O75821;O43390;P07814;Q8N6W0;Q8WXF1;P62995;Q14141;P23258;O00139;P51531;Q86WJ1;Q16560;Q99719;O14556;Q13287;O75943;P62826;Q08211;P55884;Q0VDF9;O15042;Q8IY18;O43237;Q9H6S0;P33240;P60953;P08238;P48643;Q5T890;Q12926;Q76FK4;Q5T160;Q00536;Q9H6T0;Q9BTD8;Q14683;Q13233;Q15696;Q9HCJ3;A6NDB9;O43236;P38935;Q9Y5S9;Q8WVV9;Q14151;Q7Z7E8;Q9H1B4;P68104;Q12840;O43251;Q9UNP9;P11142;Q8IXT5;Q92698;O75494;A0AVT1;Q3YEC7;Q9NQ94;O43719;Q8N3C0;P68036;P49368;O43502;Q9H1J1;O15315;P42285;O14757;O43913;Q8NDT2;P52756;Q53GL7}

4910 [Cluster 447]GO:0004365+F molecular\_function [name] glyceraldehyde-3-phosphate dehydrogenase (NAD+) (phosphorylating) activity [def] "Catalysis of the reaction

4911 Pathogen[ Q2Q067] interacts with 2 human partners:{P04406;O14556}

4912 Pathogen[ P0C214] interacts with 2 human partners:{O14556;P04406}

4913 Pathogen[ P03346] interacts with 2 human partners:{P04406;O14556}

4914 Pathogen[ Q85601] interacts with 2 human partners:{O14556;P04406}

4915 Pathogen[ P14079] interacts with 1 human partners:{P04406}

4916 Pathogen[ P03383] interacts with 2 human partners:{O14556;P04406}

4917 Pathogen[ P03410] interacts with 2 human partners:{O14556;P04406}

4918 Pathogen[ P14075] interacts with 2 human partners:{P04406;O14556}

4919 Pathogen[ P0C206] interacts with 2 human partners:{O14556;P04406}

4920 Pathogen[ P03363] interacts with 2 human partners:{P04406;O14556}

4921 [Cluster 448]GO:0048037+F molecular\_function [name] cofactor binding [def] "Interacting selectively and non-covalently with a cofactor, a substance that is required for the activity of an enzyme or other protein. Cofactors may be inorganic, such as the metal atoms zinc, iron, and copper in certain forms, or organic, in which case they are referred to as coenzymes. Cofactors may either be bound tightly to active sites or bind loosely with the substrate." [ISBN

4922 Pathogen[ Q2Q067] interacts with 8 human partners:{P10746;Q9NZC7;P25791;Q9NWT6;P15259;Q13363;P04818;O15392}

4923 Pathogen[ P0C214] interacts with 13 human partners:{Q9GZZ9;P04818;Q13363;P15259;P53396;P29401;Q9NZC7;P10746;P25791;O14832;O15392;Q16798;Q9NWT6}

4924 Pathogen[ P03346] interacts with 8 human partners:{O15392;P10746;P25791;Q9NZC7;P15259;Q13363;P56545;Q9NWT6}

4925 Pathogen[ Q85601] interacts with 7 human partners:{Q9NZC7;P10746;Q9NWT6;O15392;Q13363;P15259;P25791}

4926 Pathogen[ P14079] interacts with 9 human partners:{P15259;O15392;P29401;P10746;Q9NZC7;Q9NWT6;O14832;P25791;P04818}

4927 Pathogen[ P03383] interacts with 4 human partners:{Q9NWT6;P25791;P15259;Q13363}

4928 Pathogen[ P03410] interacts with 8 human partners:{O15392;Q9NWT6;P25791;Q9NZC7;P10746;P04818;P15259;O14832}

4929 Pathogen[ P14075] interacts with 5 human partners:{P25791;Q9NWT6;P15259;O14832;Q13363}

4930 Pathogen[ P0C206] interacts with 10 human partners:{P10746;O14832;Q9NWT6;O15392;P25791;P04818;Q9NZC7;Q13363;P15259;P29401}

4931 Pathogen[ P03363] interacts with 4 human partners:{P56545;P25791;Q13363;P15259}

4932 [Cluster 449]GO:0051371+F molecular\_function [name] muscle alpha-actinin binding [def] "Interacting selectively and non-covalently with muscle isoforms of actinin. Muscle alpha-actinin isoforms are found in skeletal and cardiac muscle and are localized to the Z-disc." [PMID

4933 Pathogen[ Q2Q067] interacts with 3 human partners:{Q8WX93;Q9UMS6;Q86TC9}

4934 Pathogen[ P0C214] interacts with 2 human partners:{Q9UMS6;Q86TC9}

4935 Pathogen[ P03346] interacts with 3 human partners:{Q86TC9;Q8WX93;Q9UMS6}

4936 Pathogen[ Q85601] interacts with 3 human partners:{Q86TC9;Q8WX93;Q9UMS6}

4937 Pathogen[ P14079] interacts with 3 human partners:{Q8WX93;Q86TC9;Q9UMS6}

4938 Pathogen[ P03383] interacts with 1 human partners:{Q9UMS6}

4939 Pathogen[ P03410] interacts with 3 human partners:{Q9UMS6;Q8WX93;Q86TC9}

4940 Pathogen[ P14075] interacts with 1 human partners:{Q9UMS6}

4941 Pathogen[ P0C206] interacts with 3 human partners:{Q86TC9;Q9UMS6;Q8WX93}

4942 Pathogen[ P03363] interacts with 3 human partners:{Q86TC9;Q8WX93;Q9UMS6}

4943 [Cluster 450]GO:0008276+F molecular\_function [name] protein methyltransferase activity [def] "Catalysis of the transfer of a methyl group (CH<sub>3</sub>-) to a protein." [GOC

4944 Pathogen[ Q2Q067] interacts with 8 human partners:{Q9NVM4;Q9UI30;Q9Y5N5;Q9NR22;Q99873;Q9BV86;Q9H5I1;Q86X55}

4945 Pathogen[ P0C214] interacts with 9 human

4946 partners:{Q9H5I1;Q9NVM4;Q99873;Q9UI30;Q9Y5N5;Q8IXQ9;Q86X55;Q9BV86;Q9NR22}  
Pathogen[ P03346] interacts with 9 human

4947 partners:{Q99873;Q8IXQ9;Q9Y5N5;Q9UI30;Q9NR22;Q9NVM4;Q86X55;Q9BV86;Q9H5I1}  
Pathogen[ Q85601] interacts with 9 human

4948 partners:{Q9H5I1;Q9NR22;Q86X55;Q9NVM4;Q9BV86;Q9Y5N5;Q99873;Q9UI30;Q8IXQ9}  
Pathogen[ P14079] interacts with 10 human

4949 partners:{Q9NR22;Q9Y5N5;Q99873;Q9NVM4;Q9BV86;O60678;Q9H5I1;Q9UI30;Q8IXQ9;Q9Y5R4}  
Pathogen[ P03383] interacts with 7 human

4950 partners:{Q86X55;Q99873;Q9NR22;Q9Y5N5;Q8IXQ9;Q9UI30;Q9H5I1}  
Pathogen[ P03410] interacts with 11 human

4951 partners:{Q9NVM4;Q86X55;Q9NR22;Q8IXQ9;Q9UI30;Q9H5I1;Q9BV86;Q9Y5N5;O95568;Q9Y5R4;Q99873}  
Pathogen[ P14075] interacts with 7 human

4952 partners:{Q9NR22;Q9UI30;Q9H5I1;Q8IXQ9;Q99873;Q9Y5N5;Q86X55}  
Pathogen[ P0C206] interacts with 10 human

4953 partners:{Q9BV86;Q99873;Q86X55;Q9NVM4;Q9UI30;Q9H5I1;Q9Y5N5;Q9NR22;O60678;Q8IXQ9}  
Pathogen[ P03363] interacts with 12 human

4954 partners:{Q9H5I1;O95568;Q9Y5R4;Q9BV86;Q8IXQ9;Q9NVM4;Q9NR22;Q9UI30;Q9Y5N5;Q6P2P2;Q86X55;Q99873}  
[Cluster 451]GO:0034237+F molecular\_function [name] protein kinase A regulatory subunit binding [def] "Interacting selectively and non-covalently with one or both of the regulatory subunits of protein kinase A." [GOC

4955 Pathogen[ Q2Q067] interacts with 4 human partners:{Q9Y6D6;Q9P0M2;O43823;Q13023}  
4956 Pathogen[ P0C214] interacts with 4 human partners:{Q13023;Q9P0M2;O43823;Q9Y6D6}  
4957 Pathogen[ P03346] interacts with 6 human partners:{Q9P0M2;Q9Y6D5;Q13023;Q9Y6D6;Q9UKA4;O43823}  
4958 Pathogen[ Q85601] interacts with 4 human partners:{Q9P0M2;Q9Y6D6;O43823;Q13023}  
4959 Pathogen[ P14079] interacts with 7 human partners:{Q9UKA4;Q13023;Q9P0M2;O43823;P24588;Q9Y6D5;Q9Y6D6}  
4960 Pathogen[ P03383] interacts with 2 human partners:{Q13023;Q9Y6D6}  
4961 Pathogen[ P03410] interacts with 7 human partners:{Q9UKA4;Q9P0M2;Q9Y6D6;Q13023;Q9Y6D5;O43823;P24588}  
4962 Pathogen[ P14075] interacts with 3 human partners:{Q9Y6D6;O43823;Q13023}  
4963 Pathogen[ P0C206] interacts with 6 human partners:{Q13023;Q9Y6D6;Q9Y6D5;Q9P0M2;O43823;Q9UKA4}  
4964 Pathogen[ P03363] interacts with 3 human partners:{Q9P0M2;Q13023;Q9Y6D6}

4965 [Cluster 452]GO:0005175+F molecular\_function [name] CD27 receptor binding [def] "Interacting selectively and non-covalently with a CD27, a receptor found on the surface of T cells and some B cells and NK cells." [GOC

4966 Pathogen[ Q2Q067] interacts with 1 human partners:{O15304}  
4967 Pathogen[ P0C214] interacts with 1 human partners:{O15304}  
4968 Pathogen[ P03346] interacts with 1 human partners:{O15304}  
4969 Pathogen[ Q85601] interacts with 1 human partners:{O15304}  
4970 Pathogen[ P14079] interacts with 1 human partners:{O15304}  
4971 Pathogen[ P03383] interacts with 1 human partners:{O15304}  
4972 Pathogen[ P03410] interacts with 1 human partners:{O15304}  
4973 Pathogen[ P14075] interacts with 1 human partners:{O15304}  
4974 Pathogen[ P0C206] interacts with 1 human partners:{O15304}  
4975 Pathogen[ P03363] interacts with 1 human partners:{O15304}

4976 [Cluster 453]GO:0030332+F molecular\_function [name] cyclin binding [def] "Interacting selectively and non-covalently with cyclins, proteins whose levels in a cell varies markedly during the cell cycle, rising steadily until mitosis, then falling abruptly to zero. As cyclins reach a threshold level, they are thought to drive cells into G2 phase and thus to mitosis." [GOC

4977 Pathogen[ Q2Q067] interacts with 6 human partners:{Q9ULV3;P38936;Q13618;P24941;Q9P1T7;Q00534}  
4978 Pathogen[ P0C214] interacts with 8 human partners:{O94921;Q13618;P38936;Q00534;P24941;Q9P1T7;Q9ULV3;Q5XUX0}  
4979 Pathogen[ P03346] interacts with 9 human partners:{P24941;Q13618;O75604;Q00534;O94921;P38936;Q9P1T7;Q9ULV3;Q5XUX0}  
4980 Pathogen[ Q85601] interacts with 7 human partners:{O94921;P38936;Q00534;Q13618;Q9P1T7;P24941;Q9ULV3}  
4981 Pathogen[ P14079] interacts with 6 human partners:{Q5XUX0;Q14004;Q9ULV3;Q13618;P38936;Q9P1T7}  
4982 Pathogen[ P03383] interacts with 8 human partners:{Q9NYV4;Q00534;Q13618;P24941;O94921;Q9P1T7;Q5XUX0;Q9ULV3}  
4983 Pathogen[ P03410] interacts with 7 human partners:{Q00534;Q5XUX0;Q13618;Q9P1T7;P38936;P24941;Q9ULV3}  
4984 Pathogen[ P14075] interacts with 8 human partners:{P24941;Q13618;Q00534;Q9P1T7;O94921;Q9NYV4;Q9ULV3;Q5XUX0}  
4985 Pathogen[ P0C206] interacts with 9 human partners:{O75604;Q9ULV3;Q13618;P38936;Q5XUX0;P24941;Q9P1T7;O94921;Q00534}  
4986 Pathogen[ P03363] interacts with 7 human partners:{O75604;Q13618;P24941;Q00534;Q9P1T7;Q9ULV3;Q5XUX0}

4987 [Cluster 454]GO:0017005+F molecular\_function [name] 3'-tyrosyl-DNA phosphodiesterase activity [def] "Catalysis of the hydrolysis of 3'-phosphotyrosyl groups formed as

covalent intermediates (in DNA backbone breakage) between DNA topoisomerase I and DNA." [PMID

4988 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NUW8}

4989 Pathogen[ P0C214] interacts with 1 human partners:{Q9NUW8}

4990 Pathogen[ P03346] interacts with 1 human partners:{Q9NUW8}

4991 Pathogen[ Q85601] interacts with 1 human partners:{Q9NUW8}

4992 Pathogen[ P14079] interacts with 1 human partners:{Q9NUW8}

4993 Pathogen[ P03383] interacts with 1 human partners:{Q9NUW8}

4994 Pathogen[ P03410] interacts with 1 human partners:{Q9NUW8}

4995 Pathogen[ P14075] interacts with 1 human partners:{Q9NUW8}

4996 Pathogen[ P0C206] interacts with 1 human partners:{Q9NUW8}

4997 Pathogen[ P03363] interacts with 1 human partners:{Q9NUW8}

4998 [Cluster 455]GO:0016151+F molecular\_function [name] nickel cation binding [def]  
 "Interacting selectively and non-covalently with nickel (Ni) cations." [GOC

4999 Pathogen[ Q2Q067] interacts with 1 human partners:{P49789}

5000 Pathogen[ P0C214] interacts with 1 human partners:{P49789}

5001 Pathogen[ P03346] interacts with 1 human partners:{P49789}

5002 Pathogen[ Q85601] interacts with 1 human partners:{P49789}

5003 Pathogen[ P14079] interacts with 1 human partners:{P49789}

5004 Pathogen[ P03383] interacts with 1 human partners:{P49789}

5005 Pathogen[ P03410] interacts with 1 human partners:{P49789}

5006 Pathogen[ P14075] interacts with 1 human partners:{P49789}

5007 Pathogen[ P0C206] interacts with 1 human partners:{P49789}

5008 Pathogen[ P03363] interacts with 1 human partners:{P49789}

5009 [Cluster 456]GO:0035939+F molecular\_function [name] microsatellite binding [def]  
 "Interacting selectively and non-covalently with a microsatellite, a repeat\_region in DNA containing repeat units (2 to 4 base pairs) that is repeated multiple times in tandem." [GOC

5010 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9NQ87;Q9Y5J3}

5011 Pathogen[ P0C214] interacts with 2 human partners:{Q9Y5J3;Q9NQ87}

5012 Pathogen[ P03346] interacts with 2 human partners:{Q9Y5J3;Q9NQ87}

5013 Pathogen[ Q85601] interacts with 2 human partners:{Q9NQ87;Q9Y5J3}

5014 Pathogen[ P14079] interacts with 2 human partners:{Q9Y5J3;Q9NQ87}

5015 Pathogen[ P03383] interacts with 1 human partners:{Q9NQ87}

5016 Pathogen[ P03410] interacts with 2 human partners:{Q9Y5J3;Q9NQ87}

5017 Pathogen[ P14075] interacts with 1 human partners:{Q9NQ87}

5018 Pathogen[ P0C206] interacts with 2 human partners:{Q9NQ87;Q9Y5J3}

5019 Pathogen[ P03363] interacts with 2 human partners:{Q9Y5J3;Q9NQ87}

5020 [Cluster 457]GO:0009055+F molecular\_function [name] electron carrier activity [def]  
 "Any molecular entity that serves as an electron acceptor and electron donor in an electron transport system." [ISBN

5021 Pathogen[ Q2Q067] interacts with 11 human partners:{P35754;Q9BRA2;P15121;P38117;O75489;O75306;P99999;P10599;P21912;O95831;Q9H299}

5022 Pathogen[ P0C214] interacts with 24 human partners:{P35754;O75306;P09417;Q99643;Q9BRA2;P28331;Q8N183;P16083;P15121;Q9H299;Q9UI17;Q16881;P99999;O43837;O14832;P38117;O75489;O14521;P10599;Q9UI09;P48163;P21912;P13804;P13667}

5023 Pathogen[ P03346] interacts with 16 human partners:{P16083;Q9BRA2;O75489;Q9NS18;P15121;O43396;P13667;P21912;P99999;Q9H299;O76003;P38117;O95831;P35754;P10599;O75306}

5024 Pathogen[ Q85601] interacts with 10 human partners:{P99999;O95831;Q9BRA2;O75306;P21912;P10599;O76003;P15121;P35754;Q9H299}

5025 Pathogen[ P14079] interacts with 29 human partners:{Q6P4F2;O60397;P10109;P13498;P16083;O75306;P00395;P00403;P13804;Q9H299;P20674;O95831;P38117;P35754;O14548;O14832;Q9UI09;P00156;O76003;Q9UI17;O75489;P10599;P24310;O14521;Q9BRA2;P99999;P14406;Q8N183;P21912}

5026 Pathogen[ P03383] interacts with 6 human partners:{Q9BRA2;O75489;O95831;P10599;O75306;P99999}

5027 Pathogen[ P03410] interacts with 30 human partners:{P10599;P13804;P35754;O76003;O75380;Q9UI17;O14548;Q9UI09;P13667;P20674;Q6P4F2;Q9BRA2;P38117;O60397;P00156;P16083;Q9H299;O75489;O95831;P21912;O14832;P99999;Q99643;O14521;P24310;O75306;P00403;P10109;Q8N183;P14406}

5028 Pathogen[ P14075] interacts with 9 human partners:{Q9BRA2;O75306;P14406;P99999;O95831;O14832;P38117;O75489;P10599}

5029 Pathogen[ P0C206] interacts with 19 human partners:{P99999;Q9H299;Q9NS18;O14521;O75306;P14406;O14832;P38117;P35754;Q9UI09;O95831;O76003;Q9BRA2;O75489;P15121;P10599;P21912;P13667;P16083}

5030 Pathogen[ P03363] interacts with 7 human partners:{Q9H299;P99999;O76003;P35754;O43396;Q9BRA2;O95831}

5031 [Cluster 458]GO:0005112+F molecular\_function [name] Notch binding [def]  
 "Interacting selectively and non-covalently with the Notch (N) protein, a surface receptor." [GOC

5032 Pathogen[ Q2Q067] interacts with 5 human partners:{Q13573;Q9BUX1;Q9NWT6;Q9Y618;Q86Y01}

5033 Pathogen[ P0C214] interacts with 5 human

5034 partners:{Q13573;Q9BUX1;Q86Y01;Q9Y618;Q9NWT6}  
Pathogen[ P03346] interacts with 5 human

5035 partners:{Q9BUX1;Q9NWT6;Q13573;Q86Y01;Q9Y618}  
Pathogen[ Q85601] interacts with 5 human

5036 partners:{Q9BUX1;Q13573;Q9NWT6;Q9Y618;Q86Y01}  
Pathogen[ P14079] interacts with 4 human partners:{Q13573;Q86Y01;Q9NWT6;Q9BUX1}

5037 Pathogen[ P03383] interacts with 5 human

5038 partners:{Q9Y618;Q13573;Q9NWT6;Q9BUX1;Q86Y01}  
Pathogen[ P03410] interacts with 5 human

5039 partners:{Q9NWT6;Q9BUX1;Q86Y01;Q9Y618;Q13573}  
Pathogen[ P14075] interacts with 5 human

5040 partners:{Q13573;Q9Y618;Q9NWT6;Q9BUX1;Q86Y01}  
Pathogen[ P0C206] interacts with 5 human

5041 partners:{Q86Y01;Q9BUX1;Q9NWT6;Q13573;Q9Y618}  
Pathogen[ P03363] interacts with 4 human partners:{Q86Y01;Q9BUX1;Q9Y618;Q13573}

5042 [Cluster 459]GO:0002151+F molecular\_function [name] G-quadruplex RNA binding [def]  
"Interacting selectively and non-covalently with G-quadruplex RNA structures, in which  
groups of four guanines adopt a flat, cyclic hydrogen-bonding arrangement known as a  
guanine tetrad." [PMID

5043 Pathogen[ Q2Q067] interacts with 1 human partners:{P51816}

5044 Pathogen[ P0C214] interacts with 2 human partners:{P51114;P51816}

5045 Pathogen[ P03346] interacts with 2 human partners:{P51114;P51816}

5046 Pathogen[ Q85601] interacts with 1 human partners:{P51114}

5047 Pathogen[ P14079] interacts with 1 human partners:{P51816}

5048 Pathogen[ P03383] interacts with 1 human partners:{P51816}

5049 Pathogen[ P03410] interacts with 2 human partners:{P51114;P51816}

5050 Pathogen[ P14075] interacts with 1 human partners:{P51816}

5051 Pathogen[ P0C206] interacts with 2 human partners:{P51816;P51114}

5052 Pathogen[ P03363] interacts with 2 human partners:{P51114;P51816}

5053 [Cluster 460]GO:0004887+F molecular\_function [name] thyroid hormone receptor activity  
[def] "Combining with thyroid hormone and transmitting the signal to the transcriptional  
machinery by interacting selectively and non-covalently with a specific DNA sequence in  
order to modulate transcription by RNA polymerase II." [GOC

5054 Pathogen[ Q2Q067] interacts with 3 human partners:{P10827;P10828;Q9H0E9}

5055 Pathogen[ P0C214] interacts with 2 human partners:{Q9H0E9;P10828}

5056 Pathogen[ P03346] interacts with 4 human partners:{P10827;P10588;Q9H0E9;P10828}

5057 Pathogen[ Q85601] interacts with 3 human partners:{Q9H0E9;P10827;P10828}

5058 Pathogen[ P14079] interacts with 4 human partners:{P10828;P10827;Q9H0E9;P10588}

5059 Pathogen[ P03383] interacts with 2 human partners:{Q9H0E9;P10828}

5060 Pathogen[ P03410] interacts with 2 human partners:{P10828;Q9H0E9}

5061 Pathogen[ P14075] interacts with 1 human partners:{P10828}

5062 Pathogen[ P0C206] interacts with 4 human partners:{P10588;P10828;Q9H0E9;P10827}

5063 Pathogen[ P03363] interacts with 3 human partners:{P10828;P10588;Q9H0E9}

5064 [Cluster 461]GO:0046914+F molecular\_function [name] transition metal ion binding [def]  
"Interacting selectively and non-covalently with a transition metal ions\_a transition  
metal is an element whose atom has an incomplete d-subshell of extranuclear electrons, or  
which gives rise to a cation or cations with an incomplete d-subshell. Transition metals  
often have more than one valency state. Biologically relevant transition metals include  
vanadium, manganese, iron, copper, cobalt, nickel, molybdenum and silver." [ISBN

5065 Pathogen[ Q2Q067] interacts with 3 human partners:{P02792;P31350;Q7LG56}

5066 Pathogen[ P0C214] interacts with 5 human  
partners:{P02794;P31350;Q99807;P02792;Q7LG56}

5067 Pathogen[ P03346] interacts with 5 human  
partners:{P02792;P02794;Q9BYW2;P31350;Q7LG56}

5068 Pathogen[ Q85601] interacts with 4 human partners:{P31350;Q7LG56;P02792;P02794}

5069 Pathogen[ P14079] interacts with 4 human partners:{Q99807;P31350;Q7LG56;P02794}

5070 Pathogen[ P03383] interacts with 2 human partners:{P02794;P31350}

5071 Pathogen[ P03410] interacts with 5 human  
partners:{P02794;P31350;Q99807;P02792;Q7LG56}

5072 Pathogen[ P14075] interacts with 2 human partners:{P31350;P02794}

5073 Pathogen[ P0C206] interacts with 5 human  
partners:{P02794;Q7LG56;Q99807;P02792;P31350}

5074 Pathogen[ P03363] interacts with 1 human partners:{P02794}

5075 [Cluster 462]GO:0047710+F molecular\_function [name] bis(5'-adenosyl)-triphosphatase  
activity [def] "Catalysis of the reaction

5076 Pathogen[ Q2Q067] interacts with 1 human partners:{P49789}

5077 Pathogen[ P0C214] interacts with 1 human partners:{P49789}

5078 Pathogen[ P03346] interacts with 1 human partners:{P49789}

5079 Pathogen[ Q85601] interacts with 1 human partners:{P49789}

5080 Pathogen[ P14079] interacts with 1 human partners:{P49789}

5081 Pathogen[ P03383] interacts with 1 human partners:{P49789}

5082 Pathogen[ P03410] interacts with 1 human partners:{P49789}

5083 Pathogen[ P14075] interacts with 1 human partners:{P49789}

5084 Pathogen[ P0C206] interacts with 1 human partners:{P49789}

5085 Pathogen[ P03363] interacts with 1 human partners:{P49789}

5086 [Cluster 463]GO:0051117+F molecular\_function [name] ATPase binding [def]

"Interacting selectively and non-covalently with an ATPase, any enzyme that catalyzes the hydrolysis of ATP." [GOC

5087 Pathogen[ Q2Q067] interacts with 7 human partners:{P05062;Q04323;P60520;Q9UII2;P40855;P27986;P23297}

5088 Pathogen[ P0C214] interacts with 8 human partners:{P60520;P16157;P40855;P05062;Q9UII2;Q04323;P27986;P23297}

5089 Pathogen[ P03346] interacts with 9 human partners:{P23297;P60520;Q93050;P16157;Q9UII2;Q04323;P40855;P05062;P27986}

5090 Pathogen[ Q85601] interacts with 9 human partners:{P16157;Q93050;P23297;P05062;P27986;Q9UII2;Q04323;P60520;P40855}

5091 Pathogen[ P14079] interacts with 9 human partners:{P40855;Q96LB4;Q9UII2;P16157;P60520;Q7Z412;P23297;Q93050;Q04323}

5092 Pathogen[ P03383] interacts with 5 human partners:{P27986;P23297;Q04323;Q9UII2;P40855}

5093 Pathogen[ P03410] interacts with 12 human partners:{P27986;P16157;P60520;P59646;Q93050;P40855;Q04323;P05062;Q9UII2;Q96LB4;P23297;O75348}

5094 Pathogen[ P14075] interacts with 5 human partners:{P40855;Q04323;Q9UII2;P27986;P23297}

5095 Pathogen[ P0C206] interacts with 9 human partners:{P05062;Q04323;P27986;P16157;P40855;P60520;P23297;Q9UII2;Q93050}

5096 Pathogen[ P03363] interacts with 6 human partners:{Q04323;P16157;P60520;P40855;P27986;P23297}

5097 [Cluster 464]GO:0008408+F molecular\_function [name] 3'-5' exonuclease activity [def] "Catalysis of the hydrolysis of ester linkages within nucleic acids by removing nucleotide residues from the 3' end." [GOC

5098 Pathogen[ Q2Q067] interacts with 5 human partners:{Q99638;P49959;P27695;Q8IW19;O60671}

5099 Pathogen[ P0C214] interacts with 7 human partners:{Q8IW19;P27695;P49959;Q8IV48;O60671;Q99638;Q9Y3B8}

5100 Pathogen[ P03346] interacts with 5 human partners:{Q8IW19;Q99638;P49959;O60671;P27695}

5101 Pathogen[ Q85601] interacts with 5 human partners:{P49959;Q8IW19;O60671;P27695;Q99638}

5102 Pathogen[ P14079] interacts with 8 human partners:{O60671;Q8IV48;Q9Y3B8;Q5QGS0;P27695;Q9NSU2;Q99638;Q8IW19}

5103 Pathogen[ P03383] interacts with 4 human partners:{O60671;Q8IW19;Q99638;P27695}

5104 Pathogen[ P03410] interacts with 10 human partners:{P49959;Q5QGS0;Q9Y3B8;Q8IV48;Q8NHP7;Q9NSU2;Q99638;Q8IW19;O60671;P27695}

5105 Pathogen[ P14075] interacts with 4 human partners:{P27695;O60671;Q99638;Q8IW19}

5106 Pathogen[ P0C206] interacts with 8 human partners:{P27695;P49959;Q9NSU2;Q8IV48;Q99638;Q9Y3B8;O60671;Q8IW19}

5107 Pathogen[ P03363] interacts with 3 human partners:{Q8IW19;O60671;Q99638}

5108 [Cluster 465]GO:0050115+F molecular\_function [name] myosin-light-chain-phosphatase activity [def] "Catalysis of the reaction

5109 Pathogen[ Q2Q067] interacts with 1 human partners:{P62140}

5110 Pathogen[ P0C214] interacts with 1 human partners:{P62140}

5111 Pathogen[ P03346] interacts with 1 human partners:{P62140}

5112 Pathogen[ Q85601] interacts with 1 human partners:{P62140}

5113 Pathogen[ P14079] interacts with 1 human partners:{P62140}

5114 Pathogen[ P03383] interacts with 1 human partners:{P62140}

5115 Pathogen[ P03410] interacts with 1 human partners:{P62140}

5116 Pathogen[ P14075] interacts with 1 human partners:{P62140}

5117 Pathogen[ P0C206] interacts with 1 human partners:{P62140}

5118 Pathogen[ P03363] interacts with 1 human partners:{P62140}

5119 [Cluster 466]GO:0001190+F molecular\_function [name] RNA polymerase II transcription factor binding transcription factor activity involved in positive regulation of transcription [def] "Interacting selectively and non-covalently with an RNA polymerase II transcription factor, which may be a single protein or a complex, in order to increase the frequency, rate or extent of transcription from an RNA polymerase II promoter. A protein binding transcription factor may or may not also interact with the template nucleic acid (either DNA or RNA) as well." [GOC

5120 Pathogen[ Q2Q067] interacts with 1 human partners:{P25791}

5121 Pathogen[ P0C214] interacts with 3 human partners:{P25791;P05412;P16220}

5122 Pathogen[ P03346] interacts with 6 human partners:{P05412;P16220;O00327;P25791;O15516;O75593}

5123 Pathogen[ Q85601] interacts with 5 human partners:{O15516;O00327;P25791;P16220;P05412}

5124 Pathogen[ P14079] interacts with 2 human partners:{P25791;P05412}

5125 Pathogen[ P03383] interacts with 3 human partners:{P16220;P25791;P05412}

5126 Pathogen[ P03410] interacts with 3 human partners:{P25791;P16220;P05412}

5127 Pathogen[ P14075] interacts with 3 human partners:{P05412;P25791;P16220}

5128 Pathogen[ P0C206] interacts with 5 human partners:{P16220;P05412;O00327;O15516;P25791}

5129 Pathogen[ P03363] interacts with 4 human partners:{P16220;P25791;O00327;P05412}

5130 [Cluster 467]GO:0052822+F molecular\_function [name] DNA-3-methylguanine glycosylase

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activity [def] "Catalysis of the reaction
5131 Pathogen[ Q2Q067] interacts with 1 human partners:{P29372}
5132 Pathogen[ P0C214] interacts with 1 human partners:{P29372}
5133 Pathogen[ P03346] interacts with 1 human partners:{P29372}
5134 Pathogen[ Q85601] interacts with 1 human partners:{P29372}
5135 Pathogen[ P14079] interacts with 1 human partners:{P29372}
5136 Pathogen[ P03383] interacts with 1 human partners:{P29372}
5137 Pathogen[ P03410] interacts with 1 human partners:{P29372}
5138 Pathogen[ P14075] interacts with 1 human partners:{P29372}
5139 Pathogen[ P0C206] interacts with 1 human partners:{P29372}
5140 Pathogen[ P03363] interacts with 1 human partners:{P29372}
5141 [Cluster 468]GO:0008137+F molecular_function [name] NADH dehydrogenase (ubiquinone)
activity [def] "Catalysis of the reaction
5142 Pathogen[ Q2Q067] interacts with 10 human
partners:{O43920;P56181;O75489;O96000;O95178;O43678;O75251;O75306;Q9P0J0;E9PQ53}
5143 Pathogen[ P0C214] interacts with 21 human
partners:{Q16795;O75306;O43678;P56556;P28331;O43920;Q8N183;O95299;P17568;Q16718;O1456
1;O95298;Q9P0J0;O96000;E9PQ53;O95182;O75489;O75251;Q9UI09;P56181;O95178}
5144 Pathogen[ P03346] interacts with 10 human
partners:{P56181;O75489;O43678;O95178;O43920;E9PQ53;O75251;O96000;O75306;Q9P0J0}
5145 Pathogen[ Q85601] interacts with 7 human
partners:{Q9P0J0;O75306;O43678;P56181;O96000;O43920;E9PQ53}
5146 Pathogen[ P14079] interacts with 33 human
partners:{P56181;O43674;O43677;O43181;O95169;P56556;O95139;O96000;O95167;O75306;P1756
8;O95182;O43676;O43678;P51970;O95178;O75251;O14561;Q9UI09;O95299;E9PQ53;Q9P0J0;O75489
;P03923;Q16718;P03897;O43920;O15239;O00483;P03901;P03886;Q8N183;O95298}
5147 Pathogen[ P03383] interacts with 10 human
partners:{O75251;O96000;O43678;O43920;O75489;O75306;O95178;E9PQ53;Q9P0J0;P56181}
5148 Pathogen[ P03410] interacts with 36 human
partners:{O95168;O43674;P56556;P17568;O95178;O75380;O43678;O75251;O95299;P51970;O4392
0;Q9UI09;O96000;O95167;O15239;Q9Y6M9;P03886;O00483;O95298;O75438;E9PQ53;P56181;O14561
;O75489;P03897;O43677;O95169;O43181;Q16718;O75306;O43676;P03901;Q9P0J0;P03923;Q8N183;
O95182}
5149 Pathogen[ P14075] interacts with 16 human
partners:{O43674;P56181;O96000;O95182;O43677;O43920;O75306;O14561;O95298;O43678;O7525
1;E9PQ53;O75489;O95178;Q9P0J0;O43676}
5150 Pathogen[ P0C206] interacts with 18 human
partners:{P56181;O75251;O43920;O75306;O95182;Q9UI09;O95298;O14561;O00483;P17568;O9517
8;Q9P0J0;O43678;O75489;E9PQ53;O96000;O43674;P56556}
5151 Pathogen[ P03363] interacts with 3 human partners:{Q9P0J0;O96000;P56181}
5152 [Cluster 469]GO:0070037+F molecular_function [name] rRNA (pseudouridine)
methyltransferase activity [def] "Catalysis of the transfer of a methyl group from
S-adenosyl-L-methionine to a pseudouridine residue in an rRNA molecule." [GOC
5153 Pathogen[ Q2Q067] interacts with 1 human partners:{Q92979}
5154 Pathogen[ P0C214] interacts with 1 human partners:{Q92979}
5155 Pathogen[ P03346] interacts with 1 human partners:{Q92979}
5156 Pathogen[ Q85601] interacts with 1 human partners:{Q92979}
5157 Pathogen[ P14079] interacts with 1 human partners:{Q92979}
5158 Pathogen[ P03383] interacts with 1 human partners:{Q92979}
5159 Pathogen[ P03410] interacts with 1 human partners:{Q92979}
5160 Pathogen[ P14075] interacts with 1 human partners:{Q92979}
5161 Pathogen[ P0C206] interacts with 1 human partners:{Q92979}
5162 Pathogen[ P03363] interacts with 1 human partners:{Q92979}
5163 [Cluster 470]GO:0016594+F molecular_function [name] glycine binding [def]
"Interacting selectively and non-covalently with glycine, aminoethanoic acid." [GOC
5164 Pathogen[ Q2Q067] interacts with 2 human partners:{P22557;Q14749}
5165 Pathogen[ P0C214] interacts with 2 human partners:{P22557;Q14749}
5166 Pathogen[ P03346] interacts with 2 human partners:{P22557;Q14749}
5167 Pathogen[ Q85601] interacts with 1 human partners:{Q14749}
5168 Pathogen[ P14079] interacts with 2 human partners:{P22557;Q14749}
5169 Pathogen[ P03383] interacts with 1 human partners:{Q14749}
5170 Pathogen[ P03410] interacts with 2 human partners:{Q14749;P22557}
5171 Pathogen[ P14075] interacts with 1 human partners:{Q14749}
5172 Pathogen[ P0C206] interacts with 2 human partners:{P22557;Q14749}
5173 Pathogen[ P03363] interacts with 1 human partners:{Q14749}
5174 [Cluster 471]GO:0001106+F molecular_function [name] RNA polymerase II transcription
corepressor activity [def] "Interacting selectively and non-covalently with an RNA
polymerase II repressing transcription factor and also with the RNA polymerase II basal
transcription machinery in order to stop, prevent, or reduce the frequency, rate or
extent of transcription. Cofactors generally do not bind DNA, but rather mediate
protein-protein interactions between repressive transcription factors and the basal
transcription machinery." [GOC
5175 Pathogen[ Q2Q067] interacts with 12 human
partners:{Q99708;Q9NQ87;Q13547;O00712;Q96ST3;O14776;Q9UBK9;Q9ULU4;Q13363;Q96QT6;Q0472
4;O94763}
5176 Pathogen[ P0C214] interacts with 12 human

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5177 partners:{Q13363;Q13547;Q96QT6;Q99708;Q04724;O14776;O00712;Q96ST3;Q9ULU4;O94763;Q9UBK9;Q9NQ87}  
Pathogen[ P03346] interacts with 16 human  
partners:{Q96ST3;O94763;Q99708;P41225;O00712;Q96QT6;Q9ULU4;Q13547;Q04724;Q9NQ87;Q92481;P51858;Q13363;Q9UBK9;O14776;Q96SF7}

5178 Pathogen[ Q85601] interacts with 12 human  
partners:{Q04724;Q96QT6;Q99708;Q13363;O14776;Q9ULU4;Q9NQ87;O94763;Q13547;O00712;Q9UBK9;Q96ST3}

5179 Pathogen[ P14079] interacts with 10 human  
partners:{O14776;Q96ST3;O94763;Q96QT6;Q99708;Q9UBK9;Q9ULU4;Q04724;Q9NQ87;O00712}

5180 Pathogen[ P03383] interacts with 12 human  
partners:{Q9NQ87;Q9ULU4;O00712;Q96QT6;Q04724;O94763;O14776;Q13547;Q99708;Q96ST3;Q9UBK9;Q13363}

5181 Pathogen[ P03410] interacts with 11 human  
partners:{Q96QT6;Q9ULU4;O94763;Q99708;Q9NQ87;Q04724;Q9UBK9;Q96ST3;O00712;O14776;Q13547}

5182 Pathogen[ P14075] interacts with 12 human  
partners:{Q96ST3;Q96QT6;O14776;Q9ULU4;Q9NQ87;Q13547;O94763;Q9UBK9;O00712;Q04724;Q13363;Q99708}

5183 Pathogen[ P0C206] interacts with 12 human  
partners:{Q9NQ87;Q96ST3;Q99708;Q13547;O00712;Q9ULU4;O14776;Q04724;Q9UBK9;Q96QT6;Q13363;O94763}

5184 Pathogen[ P03363] interacts with 13 human  
partners:{P51858;Q96QT6;O00712;Q9NQ87;Q04724;Q9UBK9;Q9ULU4;Q99708;O94763;Q96ST3;Q13547;O14776;Q13363}

5185 [Cluster 472]GO:0004197+F molecular\_function [name] cysteine-type endopeptidase activity [def] "Catalysis of the hydrolysis of internal, alpha-peptide bonds in a polypeptide chain by a mechanism in which the sulfhydryl group of a cysteine residue at the active center acts as a nucleophile." [GOC

5186 Pathogen[ Q2Q067] interacts with 10 human  
partners:{Q93009;O15519;Q9UDY8;Q14790;Q8WXC3;P55212;Q86T82;P42575;Q93008;Q13867}

5187 Pathogen[ P0C214] interacts with 11 human  
partners:{P55212;Q9UDY8;Q13867;Q93008;O15519;Q8WXC3;P42574;Q93009;P55210;P42575;Q14790}

5188 Pathogen[ P03346] interacts with 17 human  
partners:{Q93009;Q93008;Q9UDY8;P42575;P42574;P55212;Q86T82;O15519;Q8WXC3;Q14694;P51784;O75604;Q13867;P55211;Q14790;P55210;O94782}

5189 Pathogen[ Q85601] interacts with 12 human  
partners:{Q9Y5T5;Q93009;Q9UDY8;Q14790;Q13867;Q93008;P42575;Q8WXC3;Q86T82;P55212;O15519;P55210}

5190 Pathogen[ P14079] interacts with 8 human  
partners:{Q8WXC3;O15519;Q86TL0;P55212;Q14790;P55210;Q13867;P42575}

5191 Pathogen[ P03383] interacts with 3 human partners:{P55212;Q13867;Q8WXC3}

5192 Pathogen[ P03410] interacts with 7 human  
partners:{P42575;O15519;Q13867;Q86TL0;Q8WXC3;P55212;P55210}

5193 Pathogen[ P14075] interacts with 3 human partners:{P55212;Q8WXC3;Q13867}

5194 Pathogen[ P0C206] interacts with 15 human  
partners:{Q9UDY8;Q9Y5T5;Q93008;O75604;P55212;Q93009;O15519;Q13867;Q14790;Q86T82;P42574;Q86TL0;P42575;P55210;Q8WXC3}

5195 Pathogen[ P03363] interacts with 9 human  
partners:{O15519;P51784;O75604;Q13867;P55212;Q86T82;Q8WXC3;P55210;Q93008}

5196 [Cluster 473]GO:0043023+F molecular\_function [name] ribosomal large subunit binding [def] "Interacting selectively and non-covalently with any part of the larger ribosomal subunit." [GOC

5197 Pathogen[ Q2Q067] interacts with 1 human partners:{P06748}

5198 Pathogen[ P0C214] interacts with 1 human partners:{P06748}

5199 Pathogen[ P03346] interacts with 1 human partners:{P06748}

5200 Pathogen[ Q85601] interacts with 1 human partners:{P06748}

5201 Pathogen[ P14079] interacts with 1 human partners:{P06748}

5202 Pathogen[ P03383] interacts with 1 human partners:{P06748}

5203 Pathogen[ P03410] interacts with 1 human partners:{P06748}

5204 Pathogen[ P14075] interacts with 1 human partners:{P06748}

5205 Pathogen[ P0C206] interacts with 1 human partners:{P06748}

5206 Pathogen[ P03363] interacts with 1 human partners:{P06748}

5207 [Cluster 474]GO:0016706+F molecular\_function [name] oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen, 2-oxoglutarate as one donor, and incorporation of one atom each of oxygen into both donors [def] "Catalysis of the reaction

5208 Pathogen[ Q2Q067] interacts with 9 human  
partners:{Q9UPP1;Q9NXW9;Q6NS38;Q9NWT6;Q96Q83;Q96KS0;Q9H6W3;Q9H6Z9;Q9GZT9}

5209 Pathogen[ P0C214] interacts with 10 human  
partners:{Q96KS0;Q9H6Z9;Q6NS38;Q9H6W3;Q9GZT9;Q9NXW9;Q96BT7;Q96Q83;Q9UPP1;Q9NWT6}

5210 Pathogen[ P03346] interacts with 10 human  
partners:{Q9NXW9;Q9GZT9;Q9UPP1;Q96Q83;Q96BT7;Q96KS0;Q9UGL1;Q9NWT6;Q9H6W3;Q9H6Z9}

5211 Pathogen[ Q85601] interacts with 9 human  
partners:{Q9H6Z9;Q9NWT6;Q9H6W3;Q9NXW9;Q9GZT9;Q96KS0;Q9UPP1;Q6NS38;Q96Q83}



5212 Pathogen[ P14079] interacts with 15 human partners:{Q9GZT9;Q8IVL6;Q9NXW9;Q6P6C2;Q6N021;Q9H6W3;Q9UPP1;Q9NWT6;Q6NS38;Q3KRA9;Q9H6Z9;Q9BT30;Q96Q83;O43151;Q96KS0}

5213 Pathogen[ P03383] interacts with 6 human partners:{Q9NWT6;Q96KS0;Q9H6W3;Q9H6Z9;Q96Q83;Q9UPP1}

5214 Pathogen[ P03410] interacts with 14 human partners:{Q3KRA9;Q9UPP1;Q9H6W3;Q6P6C2;Q9NWT6;Q96KS0;Q9H6Z9;Q9NXW9;Q6N021;Q96Q83;Q6NS38;Q9GZT9;O43151;Q9BT30}

5215 Pathogen[ P14075] interacts with 8 human partners:{Q96KS0;Q9GZT9;Q96Q83;Q9UPP1;Q9H6W3;Q9NWT6;Q9NXW9;Q9H6Z9}

5216 Pathogen[ P0C206] interacts with 11 human partners:{Q96Q83;Q96KS0;Q9GZT9;O43151;Q3KRA9;Q6NS38;Q9UPP1;Q9NXW9;Q9NWT6;Q9H6W3;Q9H6Z9}

5217 Pathogen[ P03363] interacts with 3 human partners:{Q9H6Z9;Q96BT7;Q96Q83}

5218 [Cluster 475]GO:0071532+F molecular\_function [name] ankyrin repeat binding [def] "Interacting selectively and non-covalently with an ankyrin repeat of a protein. Ankyrin repeats are tandemly repeated modules of about 33 amino acids\_ each repeat folds into a helix-loop-helix structure with a beta-hairpin/loop region projecting out from the helices at a 90-degree angle, and repeats stack to form an L-shaped structure." [GOC

5219 Pathogen[ Q2Q067] interacts with 2 human partners:{Q04206;Q9NWT6}

5220 Pathogen[ P0C214] interacts with 2 human partners:{Q04206;Q9NWT6}

5221 Pathogen[ P03346] interacts with 2 human partners:{Q04206;Q9NWT6}

5222 Pathogen[ Q85601] interacts with 2 human partners:{Q9NWT6;Q04206}

5223 Pathogen[ P14079] interacts with 1 human partners:{Q9NWT6}

5224 Pathogen[ P03383] interacts with 2 human partners:{Q9NWT6;Q04206}

5225 Pathogen[ P03410] interacts with 2 human partners:{Q04206;Q9NWT6}

5226 Pathogen[ P14075] interacts with 2 human partners:{Q04206;Q9NWT6}

5227 Pathogen[ P0C206] interacts with 2 human partners:{Q9NWT6;Q04206}

5228 Pathogen[ P03363] interacts with 1 human partners:{Q04206}

5229 [Cluster 476]GO:0043236+F molecular\_function [name] laminin binding [def] "Interacting selectively and non-covalently with laminins, glycoproteins that are major constituents of the basement membrane of cells." [GOC

5230 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9HB19}

5231 Pathogen[ P0C214] interacts with 1 human partners:{Q9HB19}

5232 Pathogen[ P03346] interacts with 1 human partners:{Q9HB19}

5233 Pathogen[ Q85601] interacts with 1 human partners:{Q9HB19}

5234 Pathogen[ P14079] interacts with 1 human partners:{Q9HB19}

5235 Pathogen[ P03383] interacts with 1 human partners:{Q9HB19}

5236 Pathogen[ P03410] interacts with 1 human partners:{Q9HB19}

5237 Pathogen[ P14075] interacts with 1 human partners:{Q9HB19}

5238 Pathogen[ P0C206] interacts with 1 human partners:{Q9HB19}

5239 Pathogen[ P03363] interacts with 1 human partners:{Q9HB19}

5240 [Cluster 477]GO:0032138+F molecular\_function [name] single base insertion or deletion binding [def] "Interacting selectively and non-covalently with double-stranded DNA containing a single base insertion or deletion." [GOC

5241 Pathogen[ Q2Q067] interacts with 1 human partners:{P54278}

5242 Pathogen[ P0C214] interacts with 1 human partners:{P54278}

5243 Pathogen[ P03346] interacts with 1 human partners:{P54278}

5244 Pathogen[ Q85601] interacts with 1 human partners:{P54278}

5245 Pathogen[ P14079] interacts with 1 human partners:{P54278}

5246 Pathogen[ P03383] interacts with 1 human partners:{P54278}

5247 Pathogen[ P03410] interacts with 1 human partners:{P54278}

5248 Pathogen[ P14075] interacts with 1 human partners:{P54278}

5249 Pathogen[ P0C206] interacts with 1 human partners:{P54278}

5250 Pathogen[ P03363] interacts with 1 human partners:{P54278}

5251 [Cluster 478]GO:0003916+F molecular\_function [name] DNA topoisomerase activity [def] "Catalysis of the transient cleavage and passage of individual DNA strands or double helices through one another, resulting a topological transformation in double-stranded DNA." [GOC

5252 Pathogen[ Q2Q067] interacts with 2 human partners:{P11387;P11388}

5253 Pathogen[ P0C214] interacts with 2 human partners:{P11388;P11387}

5254 Pathogen[ P03346] interacts with 2 human partners:{P11388;P11387}

5255 Pathogen[ Q85601] interacts with 2 human partners:{P11387;P11388}

5256 Pathogen[ P14079] interacts with 3 human partners:{P11388;Q13472;Q969P6}

5257 Pathogen[ P03383] interacts with 1 human partners:{P11387}

5258 Pathogen[ P03410] interacts with 3 human partners:{Q13472;P11387;P11388}

5259 Pathogen[ P14075] interacts with 1 human partners:{P11387}

5260 Pathogen[ P0C206] interacts with 3 human partners:{P11388;P11387;Q13472}

5261 Pathogen[ P03363] interacts with 2 human partners:{P11387;Q13472}

5262 [Cluster 479]GO:0046970+F molecular\_function [name] NAD-dependent histone deacetylase activity (H4-K16 specific) [def] "Catalysis of the reaction

5263 Pathogen[ Q2Q067] interacts with 10 human partners:{P56524;Q9BY41;Q9UKV0;Q13547;O15379;Q9UQL6;Q969S8;Q96DB2;Q92769;Q8WUI4}

5264 Pathogen[ P0C214] interacts with 10 human partners:{Q13547;Q969S8;Q96DB2;P56524;Q92769;Q9UKV0;O15379;Q8WUI4;Q9UQL6;Q9BY41}

5265 Pathogen[ P03346] interacts with 10 human

5266 partners:{Q969S8;Q96DB2;O15379;P56524;Q92769;Q13547;Q9BY41;Q8WUI4;Q9UKV0;Q9UQL6}  
Pathogen[ Q85601] interacts with 10 human

5267 partners:{Q969S8;Q9UKV0;Q96DB2;Q9BY41;Q9UQL6;Q92769;P56524;O15379;Q13547;Q8WUI4}  
Pathogen[ P14079] interacts with 9 human

5268 partners:{Q9UQL6;O15379;Q96DB2;Q969S8;Q8WUI4;Q9UKV0;Q92769;Q9BY41;P56524}  
Pathogen[ P03383] interacts with 9 human

5269 partners:{Q9UQL6;Q92769;O15379;Q13547;Q9BY41;Q9UKV0;P56524;Q8WUI4;Q969S8}  
Pathogen[ P03410] interacts with 10 human

5270 partners:{Q9UKV0;Q9BY41;Q8WUI4;Q9UQL6;Q969S8;Q92769;O15379;P56524;Q13547;Q96DB2}  
Pathogen[ P14075] interacts with 9 human

5271 partners:{Q9BY41;Q969S8;P56524;Q9UKV0;Q13547;Q92769;O15379;Q9UQL6;Q8WUI4}  
Pathogen[ P0C206] interacts with 10 human

5272 partners:{Q92769;Q96DB2;Q9UKV0;Q13547;O15379;Q8WUI4;Q9BY41;P56524;Q969S8;Q9UQL6}  
Pathogen[ P03363] interacts with 7 human

5273 partners:{Q9BY41;O15379;Q969S8;Q9UQL6;Q9UKV0;Q13547;Q8WUI4}  
[Cluster 480]GO:0000774+F molecular\_function [name] adenylyl-nucleotide exchange factor activity [def] "Stimulates the hydrolysis and exchange of adenylyl nucleotides by other proteins." [GOC

5274 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9HAV7;Q8TAA5}

5275 Pathogen[ P0C214] interacts with 2 human partners:{Q9HAV7;Q8TAA5}

5276 Pathogen[ P03346] interacts with 2 human partners:{Q9HAV7;Q8TAA5}

5277 Pathogen[ Q85601] interacts with 2 human partners:{Q8TAA5;Q9HAV7}

5278 Pathogen[ P14079] interacts with 2 human partners:{Q9HAV7;Q8TAA5}

5279 Pathogen[ P03383] interacts with 2 human partners:{Q9HAV7;Q8TAA5}

5280 Pathogen[ P03410] interacts with 2 human partners:{Q8TAA5;Q9HAV7}

5281 Pathogen[ P14075] interacts with 2 human partners:{Q9HAV7;Q8TAA5}

5282 Pathogen[ P0C206] interacts with 2 human partners:{Q9HAV7;Q8TAA5}

5283 Pathogen[ P03363] interacts with 1 human partners:{Q8TAA5}

5284 [Cluster 481]GO:0004857+F molecular\_function [name] enzyme inhibitor activity [def] "Stops, prevents or reduces the activity of an enzyme." [GOC

5285 Pathogen[ Q2Q067] interacts with 11 human  
partners:{O14974;Q8N5D0;Q9UMX2;Q9UII2;Q9NZL4;Q9NZU7;O96018;P30047;Q9H3M7;O95190;Q8N163}

5286 Pathogen[ P0C214] interacts with 14 human  
partners:{Q9NZL4;Q8N163;Q8N5D0;Q9H3M7;O96018;P54368;O14974;P18545;Q9UII2;Q9UMX2;Q9NZU7;Q13956;O95190;P30047}

5287 Pathogen[ P03346] interacts with 11 human  
partners:{Q8N163;Q9NZL4;Q9NZU7;Q9UMX2;P30047;Q9UII2;Q8N5D0;O96018;O14974;Q9H3M7;O95190}

5288 Pathogen[ Q85601] interacts with 11 human  
partners:{Q9NZU7;P30047;Q9UMX2;Q9UII2;O95190;O96018;Q8N163;O14974;Q9NZL4;Q9H3M7;Q8N5D0}

5289 Pathogen[ P14079] interacts with 20 human  
partners:{Q8N5D0;Q8N163;P05408;Q9UMX2;O14974;Q9UII2;O95190;P51606;P18545;P54368;Q13956;O96018;O60256;P05814;Q9H3M7;Q14558;Q9BS40;Q9NZL4;P30047;Q9NZU7}

5290 Pathogen[ P03383] interacts with 8 human  
partners:{O96018;Q8N163;Q9UII2;O95190;Q9NZL4;Q9H3M7;P30047;Q8N5D0}

5291 Pathogen[ P03410] interacts with 20 human  
partners:{O96018;P30047;P51606;Q13956;Q9H3M7;O95190;Q9UII2;Q9BS40;Q8N163;P18545;Q14558;P05408;O14974;Q8N5D0;Q9NZU7;O60256;P54368;Q9NZL4;Q9UMX2;P05814}

5292 Pathogen[ P14075] interacts with 8 human  
partners:{O96018;Q8N5D0;Q8N163;Q9UII2;P30047;Q9H3M7;Q9NZL4;O95190}

5293 Pathogen[ P0C206] interacts with 14 human  
partners:{P18545;Q9NZU7;P30047;O14974;P54368;O96018;O95190;Q9NZL4;Q13956;Q9H3M7;Q8N5D0;Q8N163;Q9UII2;Q9UMX2}

5294 Pathogen[ P03363] interacts with 10 human  
partners:{Q8N5D0;Q9NZL4;Q9H3M7;Q9NZU7;Q8N163;O14974;Q9UMX2;P30047;O96018;O95190}

5295 [Cluster 482]GO:0035173+F molecular\_function [name] histone kinase activity [def] "Catalysis of the transfer of a phosphate group to a histone. Histones are any of a group of water-soluble proteins found in association with the DNA of plant and animal chromosomes." [GOC

5296 Pathogen[ Q2Q067] interacts with 2 human partners:{P14635;P24941}

5297 Pathogen[ P0C214] interacts with 2 human partners:{P14635;P24941}

5298 Pathogen[ P03346] interacts with 2 human partners:{P24941;P14635}

5299 Pathogen[ Q85601] interacts with 2 human partners:{P14635;P24941}

5300 Pathogen[ P14079] interacts with 1 human partners:{P14635}

5301 Pathogen[ P03383] interacts with 2 human partners:{P14635;P24941}

5302 Pathogen[ P03410] interacts with 2 human partners:{P14635;P24941}

5303 Pathogen[ P14075] interacts with 2 human partners:{P24941;P14635}

5304 Pathogen[ P0C206] interacts with 3 human partners:{P14635;P24941;Q9UIG0}

5305 Pathogen[ P03363] interacts with 1 human partners:{P24941}

5306 [Cluster 483]GO:0048185+F molecular\_function [name] activin binding [def] "Interacting selectively and non-covalently with activin, a dimer of inhibin-beta subunits." [GOC

5307 Pathogen[ Q2Q067] interacts with 1 human partners:{O15105}

5308 Pathogen[ P0C214] interacts with 3 human partners:{O95633;Q9HCE7;O15105}

5309 Pathogen[ P03346] interacts with 2 human partners:{O15105;O95633}

5310 Pathogen[ Q85601] interacts with 1 human partners:{O15105}

5311 Pathogen[ P14079] interacts with 1 human partners:{O15105}

5312 Pathogen[ P03383] interacts with 1 human partners:{O15105}

5313 Pathogen[ P03410] interacts with 1 human partners:{O15105}

5314 Pathogen[ P14075] interacts with 1 human partners:{O15105}

5315 Pathogen[ P0C206] interacts with 2 human partners:{O95633;O15105}

5316 Pathogen[ P03363] interacts with 2 human partners:{O15105;P19883}

5317 [Cluster 484]GO:0097371+F

5318 Pathogen[ Q2Q067] interacts with 2 human partners:{Q8N726;P61289}

5319 Pathogen[ P0C214] interacts with 1 human partners:{Q8N726}

5320 Pathogen[ P03346] interacts with 3 human partners:{Q6PCD5;P61289;Q8N726}

5321 Pathogen[ Q85601] interacts with 3 human partners:{P61289;Q6PCD5;Q8N726}

5322 Pathogen[ P14079] interacts with 2 human partners:{Q8N726;P61289}

5323 Pathogen[ P03383] interacts with 2 human partners:{P61289;Q8N726}

5324 Pathogen[ P03410] interacts with 2 human partners:{Q8N726;P61289}

5325 Pathogen[ P14075] interacts with 2 human partners:{P61289;Q8N726}

5326 Pathogen[ P0C206] interacts with 3 human partners:{P61289;Q6PCD5;Q8N726}

5327 Pathogen[ P03363] interacts with 3 human partners:{P61289;Q6PCD5;Q8N726}

5328 [Cluster 485]GO:0005261+F molecular\_function [name] cation channel activity [def] "Catalysis of the energy-independent passage of cations across a lipid bilayer down a concentration gradient." [GOC

5329 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NY12}

5330 Pathogen[ P0C214] interacts with 1 human partners:{Q9NY12}

5331 Pathogen[ P03346] interacts with 1 human partners:{Q9NY12}

5332 Pathogen[ Q85601] interacts with 1 human partners:{Q9NY12}

5333 Pathogen[ P14079] interacts with 2 human partners:{Q9NY12;Q9H6F2}

5334 Pathogen[ P03383] interacts with 1 human partners:{Q9NY12}

5335 Pathogen[ P03410] interacts with 2 human partners:{Q9H6F2;Q9NY12}

5336 Pathogen[ P14075] interacts with 1 human partners:{Q9NY12}

5337 Pathogen[ P0C206] interacts with 1 human partners:{Q9NY12}

5338 Pathogen[ P03363] interacts with 1 human partners:{Q9NY12}

5339 [Cluster 486]GO:0015631+F molecular\_function [name] tubulin binding [def] "Interacting selectively and non-covalently with monomeric or multimeric forms of tubulin, including microtubules." [GOC

5340 Pathogen[ Q2Q067] interacts with 8 human partners:{P04156;Q9HC77;Q96SN8;Q96K30;O94811;Q66K74;P27816;O15392}

5341 Pathogen[ P0C214] interacts with 9 human partners:{O94811;Q96SN8;Q9HC77;P27816;Q96K30;Q9BQI5;O15392;P04156;Q66K74}

5342 Pathogen[ P03346] interacts with 12 human partners:{O15392;Q9HC77;Q66K74;Q96SN8;Q8N841;Q96K30;P11137;O94811;P30622;P27816;P04156;Q9BQI5}

5343 Pathogen[ Q85601] interacts with 10 human partners:{P27816;Q96SN8;P30622;Q9HC77;Q66K74;O15392;O94811;Q9BW30;P04156;Q96K30}

5344 Pathogen[ P14079] interacts with 20 human partners:{O43292;Q96K30;P04156;Q66K74;O15392;Q96MI9;Q9UPW5;Q14118;Q7Z4L9;Q9BQI5;O94811;Q8NDL9;Q8N841;Q9BW30;P11137;Q9HC77;Q96SN8;P27816;P30622;P10636}

5345 Pathogen[ P03383] interacts with 7 human partners:{P04156;Q96SN8;O94811;Q9HC77;Q96K30;P27816;Q9BQI5}

5346 Pathogen[ P03410] interacts with 17 human partners:{O15392;P11137;P30622;P27816;Q9UPW5;Q9HC77;Q96K30;Q7Z4L9;Q96SN8;O94811;Q9BW30;P04156;Q14118;Q66K74;Q9BQI5;P10636;Q8N841}

5347 Pathogen[ P14075] interacts with 7 human partners:{Q9BQI5;O94811;Q9HC77;P04156;Q96SN8;Q96K30;P27816}

5348 Pathogen[ P0C206] interacts with 16 human partners:{Q96SN8;Q9HC77;P04156;Q8NDL9;O94811;Q96K30;P30622;P10636;Q66K74;P11137;P27816;Q8N841;Q9BQI5;O15392;Q9UPW5;Q9BW30}

5349 Pathogen[ P03363] interacts with 12 human partners:{P11137;Q9HC77;Q66K74;O94811;Q96K30;P04156;Q9BW30;P30622;P27816;Q8N841;Q9BQI5;Q96SN8}

5350 [Cluster 487]GO:0004818+F molecular\_function [name] glutamate-tRNA ligase activity [def] "Catalysis of the reaction

5351 Pathogen[ Q2Q067] interacts with 1 human partners:{P07814}

5352 Pathogen[ P0C214] interacts with 2 human partners:{P07814;Q5JPH6}

5353 Pathogen[ P03346] interacts with 1 human partners:{P07814}

5354 Pathogen[ Q85601] interacts with 1 human partners:{P07814}

5355 Pathogen[ P14079] interacts with 2 human partners:{Q5JPH6;P07814}

5356 Pathogen[ P03383] interacts with 2 human partners:{Q5JPH6;P07814}

5357 Pathogen[ P03410] interacts with 2 human partners:{Q5JPH6;P07814}

5358 Pathogen[ P14075] interacts with 2 human partners:{Q5JPH6;P07814}

5359 Pathogen[ P0C206] interacts with 2 human partners:{P07814;Q5JPH6}

5360 Pathogen[ P03363] interacts with 2 human partners:{Q5JPH6;P07814}

5361 [Cluster 488]GO:0008060+F molecular\_function [name] ARF GTPase activator activity [def] "Increases the rate of GTP hydrolysis by the GTPase ARF." [GOC

5362 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9Y6D6;P52594}

5363 Pathogen[ P0C214] interacts with 2 human partners:{Q9Y6D6;P52594}

5364 Pathogen[ P03346] interacts with 2 human partners:{Q9Y6D6;P52594}

5365 Pathogen[ Q85601] interacts with 5 human partners:{Q9NP61;P52594;Q8N6H7;Q8N6T3;Q9Y6D6}

5366 Pathogen[ P14079] interacts with 2 human partners:{P52594;Q9Y6D6}

5367 Pathogen[ P03383] interacts with 2 human partners:{Q9Y6D6;P52594}

5368 Pathogen[ P03410] interacts with 3 human partners:{P52594;Q9NP61;Q9Y6D6}

5369 Pathogen[ P14075] interacts with 2 human partners:{Q9Y6D6;P52594}

5370 Pathogen[ P0C206] interacts with 5 human partners:{Q95081;Q8N6T3;Q9Y6D6;Q9NP61;Q8N6H7}

5371 Pathogen[ P03363] interacts with 2 human partners:{P52594;Q9Y6D6}

5372 [Cluster 489]GO:0043035+F molecular\_function [name] chromatin insulator sequence binding [def] "Interacting selectively and non-covalently and stoichiometrically with a chromatin insulator sequence, a DNA sequence that prevents enhancer-mediated activation or repression of transcription." [GOC

5373 Pathogen[ Q2Q067] interacts with 1 human partners:{P49711}

5374 Pathogen[ P0C214] interacts with 1 human partners:{P49711}

5375 Pathogen[ P03346] interacts with 1 human partners:{P49711}

5376 Pathogen[ Q85601] interacts with 1 human partners:{P49711}

5377 Pathogen[ P14079] interacts with 1 human partners:{P49711}

5378 Pathogen[ P03383] interacts with 1 human partners:{P49711}

5379 Pathogen[ P03410] interacts with 1 human partners:{P49711}

5380 Pathogen[ P14075] interacts with 1 human partners:{P49711}

5381 Pathogen[ P0C206] interacts with 1 human partners:{P49711}

5382 Pathogen[ P03363] interacts with 1 human partners:{P49711}

5383 [Cluster 490]GO:0030695+F molecular\_function [name] GTPase regulator activity [def] "Modulates the rate of GTP hydrolysis by a GTPase." [GOC

5384 Pathogen[ Q2Q067] interacts with 1 human partners:{P81274}

5385 Pathogen[ P0C214] interacts with 1 human partners:{P81274}

5386 Pathogen[ P03346] interacts with 2 human partners:{P81274;Q9Y4H4}

5387 Pathogen[ Q85601] interacts with 1 human partners:{P81274}

5388 Pathogen[ P14079] interacts with 2 human partners:{Q9Y4H4;P81274}

5389 Pathogen[ P03383] interacts with 2 human partners:{P81274;Q9Y4H4}

5390 Pathogen[ P03410] interacts with 2 human partners:{Q9Y4H4;P81274}

5391 Pathogen[ P14075] interacts with 2 human partners:{P81274;Q9Y4H4}

5392 Pathogen[ P0C206] interacts with 2 human partners:{Q9Y4H4;P81274}

5393 Pathogen[ P03363] interacts with 2 human partners:{Q9Y4H4;P81274}

5394 [Cluster 491]GO:0071209+F molecular\_function [name] U7 snRNA binding [def] "Interacting selectively and non-covalently with the U7 small nuclear RNA (U7 snRNA)." [GOC

5395 Pathogen[ Q2Q067] interacts with 1 human partners:{P83369}

5396 Pathogen[ P0C214] interacts with 1 human partners:{P83369}

5397 Pathogen[ P03346] interacts with 1 human partners:{P83369}

5398 Pathogen[ Q85601] interacts with 1 human partners:{P83369}

5399 Pathogen[ P14079] interacts with 1 human partners:{P83369}

5400 Pathogen[ P03383] interacts with 1 human partners:{P83369}

5401 Pathogen[ P03410] interacts with 1 human partners:{P83369}

5402 Pathogen[ P14075] interacts with 1 human partners:{P83369}

5403 Pathogen[ P0C206] interacts with 1 human partners:{P83369}

5404 Pathogen[ P03363] interacts with 1 human partners:{P83369}

5405 [Cluster 492]GO:0032041+F molecular\_function [name] NAD-dependent histone deacetylase activity (H3-K14 specific) [def] "Catalysis of the reaction

5406 Pathogen[ Q2Q067] interacts with 10 human partners:{P56524;Q9BY41;Q9UKV0;Q13547;O15379;Q9UQL6;Q969S8;Q96DB2;Q92769;Q8WUI4}

5407 Pathogen[ P0C214] interacts with 10 human partners:{Q13547;Q969S8;Q96DB2;P56524;Q92769;Q9UKV0;O15379;Q8WUI4;Q9UQL6;Q9BY41}

5408 Pathogen[ P03346] interacts with 10 human partners:{Q969S8;Q96DB2;O15379;P56524;Q92769;Q13547;Q9BY41;Q8WUI4;Q9UKV0;Q9UQL6}

5409 Pathogen[ Q85601] interacts with 10 human partners:{Q969S8;Q9UKV0;Q96DB2;Q9BY41;Q9UQL6;Q92769;P56524;O15379;Q13547;Q8WUI4}

5410 Pathogen[ P14079] interacts with 9 human partners:{Q9UQL6;O15379;Q96DB2;Q969S8;Q8WUI4;Q9UKV0;Q92769;Q9BY41;P56524}

5411 Pathogen[ P03383] interacts with 9 human partners:{Q9UQL6;Q92769;O15379;Q13547;Q9BY41;Q9UKV0;P56524;Q8WUI4;Q969S8}

5412 Pathogen[ P03410] interacts with 10 human partners:{Q9UKV0;Q9BY41;Q8WUI4;Q9UQL6;Q969S8;Q92769;O15379;P56524;Q13547;Q96DB2}

5413 Pathogen[ P14075] interacts with 9 human partners:{Q9BY41;Q969S8;P56524;Q9UKV0;Q13547;Q92769;O15379;Q9UQL6;Q8WUI4}

5414 Pathogen[ P0C206] interacts with 10 human partners:{Q92769;Q96DB2;Q9UKV0;Q13547;O15379;Q8WUI4;Q9BY41;P56524;Q969S8;Q9UQL6}

5415 Pathogen[ P03363] interacts with 7 human partners:{Q9BY41;O15379;Q969S8;Q9UQL6;Q9UKV0;Q13547;Q8WUI4}

5416 [Cluster 493]GO:0070513+F molecular\_function [name] death domain binding [def] "Interacting selectively and non-covalently with a death domain of a protein. The death domain (DD) is a homotypic protein interaction module composed of a bundle of six alpha-helices. DD bind each other forming oligomers. Some DD-containing proteins are involved in the regulation of apoptosis and inflammation through their activation of

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caspace and NF-kappaB." [GOC
5417 Pathogen[ Q2Q067] interacts with 2 human partners:{P78560;Q15628}
5418 Pathogen[ P0C214] interacts with 2 human partners:{Q15628;P78560}
5419 Pathogen[ P03346] interacts with 3 human partners:{P78560;P51397;Q15628}
5420 Pathogen[ Q85601] interacts with 2 human partners:{Q15628;P78560}
5421 Pathogen[ P14079] interacts with 2 human partners:{P51397;Q15628}
5422 Pathogen[ P03383] interacts with 3 human partners:{P78560;Q15628;P51397}
5423 Pathogen[ P03410] interacts with 3 human partners:{P78560;Q15628;P51397}
5424 Pathogen[ P14075] interacts with 3 human partners:{P78560;P51397;Q15628}
5425 Pathogen[ P0C206] interacts with 3 human partners:{P78560;P51397;Q15628}
5426 Pathogen[ P03363] interacts with 2 human partners:{P78560;Q15628}
5427 [Cluster 494]GO:0030280+F molecular_function [name] structural constituent of
epidermis [def] "The action of a molecule that contributes to the structural integrity
of an epidermal cutaneous structure." [GOC
5428 Pathogen[ Q2Q067] interacts with 5 human
partners:{Q9NSB2;P23490;O76013;Q9NSB4;P13645}
5429 Pathogen[ P0C214] interacts with 5 human
partners:{O76013;Q9NSB2;P23490;Q9NSB4;P13645}
5430 Pathogen[ P03346] interacts with 6 human
partners:{Q9NSB4;Q13835;Q9NSB2;P13645;P23490;O76013}
5431 Pathogen[ Q85601] interacts with 5 human
partners:{O76013;Q9NSB4;P13645;P23490;Q9NSB2}
5432 Pathogen[ P14079] interacts with 8 human
partners:{Q9NSB4;Q13835;Q8IUG1;P13645;O75690;P23490;O76013;Q9NSB2}
5433 Pathogen[ P03383] interacts with 6 human
partners:{P23490;Q9NSB4;Q9NSB2;P13645;Q8IUG1;O76013}
5434 Pathogen[ P03410] interacts with 8 human
partners:{P13645;O75690;P23490;Q13835;Q9NSB4;O76013;Q8IUG1;Q9NSB2}
5435 Pathogen[ P14075] interacts with 7 human
partners:{Q9NSB4;Q9NSB2;P23490;P13645;O76013;Q8IUG1;O75690}
5436 Pathogen[ P0C206] interacts with 8 human
partners:{Q9NSB2;P13645;O75690;O76013;P23490;Q13835;Q9NSB4;Q8IUG1}
5437 Pathogen[ P03363] interacts with 6 human
partners:{Q13835;P13645;P23490;O76013;Q9NSB2;Q9NSB4}
5438 [Cluster 495]GO:0017018+F molecular_function [name] myosin phosphatase activity [def]
"Catalysis of the reaction
5439 Pathogen[ Q2Q067] interacts with 1 human partners:{P62140}
5440 Pathogen[ P0C214] interacts with 1 human partners:{P62140}
5441 Pathogen[ P03346] interacts with 1 human partners:{P62140}
5442 Pathogen[ Q85601] interacts with 1 human partners:{P62140}
5443 Pathogen[ P14079] interacts with 1 human partners:{P62140}
5444 Pathogen[ P03383] interacts with 1 human partners:{P62140}
5445 Pathogen[ P03410] interacts with 1 human partners:{P62140}
5446 Pathogen[ P14075] interacts with 1 human partners:{P62140}
5447 Pathogen[ P0C206] interacts with 1 human partners:{P62140}
5448 Pathogen[ P03363] interacts with 1 human partners:{P62140}
5449 [Cluster 496]GO:0004526+F molecular_function [name] ribonuclease P activity [def]
"Catalysis of the endonucleolytic cleavage of RNA, removing 5' extra nucleotides from
tRNA precursor." [EC
5450 Pathogen[ Q2Q067] interacts with 10 human
partners:{P78346;O75818;Q99575;Q9BUL9;O75817;P78345;Q969H6;O95707;Q9H633;O95059}
5451 Pathogen[ P0C214] interacts with 10 human
partners:{O75818;Q9H633;Q9BUL9;Q969H6;P78345;O95059;O95707;Q99575;O75817;P78346}
5452 Pathogen[ P03346] interacts with 10 human
partners:{P78346;Q9H633;Q969H6;O95707;Q9BUL9;O75817;O75818;Q99575;P78345;O95059}
5453 Pathogen[ Q85601] interacts with 10 human
partners:{Q9BUL9;P78346;Q99575;O95059;Q969H6;O95707;O75817;O75818;P78345;Q9H633}
5454 Pathogen[ P14079] interacts with 9 human
partners:{P78346;O75817;O95707;O95059;Q99575;Q9BUL9;Q9H633;O75818;P78345}
5455 Pathogen[ P03383] interacts with 10 human
partners:{P78345;Q969H6;Q9H633;Q99575;O95059;O95707;O75817;O75818;Q9BUL9;P78346}
5456 Pathogen[ P03410] interacts with 10 human
partners:{P78346;P78345;Q99575;O95707;Q9BUL9;O75818;Q969H6;Q9H633;O75817;O95059}
5457 Pathogen[ P14075] interacts with 10 human
partners:{O75817;P78345;P78346;O95059;Q9H633;Q9BUL9;O95707;O75818;Q99575;Q969H6}
5458 Pathogen[ P0C206] interacts with 10 human
partners:{Q9BUL9;O75818;O95059;Q969H6;O95707;O75817;P78345;Q99575;P78346;Q9H633}
5459 Pathogen[ P03363] interacts with 10 human
partners:{O95059;Q99575;O75817;O75818;O95707;Q9H633;Q969H6;P78345;P78346;Q9BUL9}
5460 [Cluster 497]GO:0034618+F molecular_function [name] arginine binding [def]
"Interacting selectively and non-covalently with 2-amino-5-(carbamimidamido)pentanoic
acid." [CHEBI
5461 Pathogen[ Q2Q067] interacts with 2 human partners:{P29474;P54136}
5462 Pathogen[ P0C214] interacts with 1 human partners:{P29474}
5463 Pathogen[ P03346] interacts with 2 human partners:{P29474;P54136}
5464 Pathogen[ Q85601] interacts with 2 human partners:{P54136;P29474}
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5465 Pathogen[ P14079] interacts with 1 human partners:{P54136}
5466 Pathogen[ P03383] interacts with 2 human partners:{P29474;P54136}
5467 Pathogen[ P03410] interacts with 2 human partners:{P54136;P29474}
5468 Pathogen[ P14075] interacts with 2 human partners:{P29474;P54136}
5469 Pathogen[ P0C206] interacts with 2 human partners:{P29474;P54136}
5470 Pathogen[ P03363] interacts with 2 human partners:{P29474;P54136}
5471 [Cluster 498]GO:0008384+F molecular_function [name] IkappaB kinase activity [def]
"Catalysis of the reaction
5472 Pathogen[ Q2Q067] interacts with 2 human partners:{O14920;O15111}
5473 Pathogen[ P0C214] interacts with 3 human partners:{O15111;Q14164;O14920}
5474 Pathogen[ P03346] interacts with 3 human partners:{O15111;O14920;Q14164}
5475 Pathogen[ Q85601] interacts with 3 human partners:{O15111;Q14164;O14920}
5476 Pathogen[ P14079] interacts with 1 human partners:{Q14164}
5477 Pathogen[ P03383] interacts with 2 human partners:{O14920;O15111}
5478 Pathogen[ P03410] interacts with 2 human partners:{O14920;O15111}
5479 Pathogen[ P14075] interacts with 2 human partners:{O15111;O14920}
5480 Pathogen[ P0C206] interacts with 3 human partners:{O14920;Q14164;O15111}
5481 Pathogen[ P03363] interacts with 2 human partners:{O14920;O15111}
5482 [Cluster 499]GO:0050333+F molecular_function [name] thiamin-triphosphatase activity
[def] "Catalysis of the reaction
5483 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BU02}
5484 Pathogen[ P0C214] interacts with 1 human partners:{Q9BU02}
5485 Pathogen[ P03346] interacts with 1 human partners:{Q9BU02}
5486 Pathogen[ Q85601] interacts with 1 human partners:{Q9BU02}
5487 Pathogen[ P14079] interacts with 1 human partners:{Q9BU02}
5488 Pathogen[ P03383] interacts with 1 human partners:{Q9BU02}
5489 Pathogen[ P03410] interacts with 1 human partners:{Q9BU02}
5490 Pathogen[ P14075] interacts with 1 human partners:{Q9BU02}
5491 Pathogen[ P0C206] interacts with 1 human partners:{Q9BU02}
5492 Pathogen[ P03363] interacts with 1 human partners:{Q9BU02}
5493 [Cluster 500]GO:0051879+F molecular_function [name] Hsp90 protein binding [def]
"Interacting selectively and non-covalently with Hsp90 proteins, any of a group of heat
shock proteins around 90kDa in size." [GOC
5494 Pathogen[ Q2Q067] interacts with 5 human
partners:{Q99743;P35869;Q16543;Q9UNE7;P49321}
5495 Pathogen[ P0C214] interacts with 5 human
partners:{Q16543;P35869;Q99743;P49321;Q9UNE7}
5496 Pathogen[ P03346] interacts with 7 human
partners:{P49321;O00327;Q9UNE7;Q16543;Q9UHD1;P35869;Q99743}
5497 Pathogen[ Q85601] interacts with 7 human
partners:{Q16543;Q9UHD1;O00327;Q99743;P49321;P35869;Q9UNE7}
5498 Pathogen[ P14079] interacts with 5 human
partners:{Q99743;P35869;P49321;Q9UHD1;Q16543}
5499 Pathogen[ P03383] interacts with 3 human partners:{Q16543;P49321;P35869}
5500 Pathogen[ P03410] interacts with 5 human
partners:{Q99743;P49321;Q16543;Q9UHD1;Q9UNE7}
5501 Pathogen[ P14075] interacts with 3 human partners:{P49321;P35869;Q16543}
5502 Pathogen[ P0C206] interacts with 7 human
partners:{P35869;Q16543;P49321;O00327;Q99743;Q9UNE7;Q9UHD1}
5503 Pathogen[ P03363] interacts with 7 human
partners:{P49321;Q99743;P35869;Q16543;O00327;Q9UNE7;Q9H3U1}
5504 [Cluster 501]GO:0019843+F molecular_function [name] rRNA binding [def] "Interacting
selectively and non-covalently with ribosomal RNA." [GOC
5505 Pathogen[ Q2Q067] interacts with 23 human
partners:{P62701;P82932;P62750;Q9NV31;P22090;P32969;Q6NZI2;Q8NHM5;Q92979;Q9Y2R5;P6192
7;Q9Y3A5;P62280;Q9H9Y2;P46777;P62913;P62269;P62917;Q7Z6M4;Q9UGY1;P46781;Q9BYC9;Q9NX20
}
5506 Pathogen[ P0C214] interacts with 24 human
partners:{Q9UGY1;Q9NV31;P62913;P22090;Q9NX20;Q6NZI2;P62701;P32969;Q7Z6M4;P62280;Q9297
9;Q8TD47;P62269;Q8IV48;P46781;Q9BYC9;Q9Y2R5;P46777;P82932;Q9H9Y2;P61927;P62750;Q9Y3A5
;Q8NHM5}
5507 Pathogen[ P03346] interacts with 24 human
partners:{P62917;P62913;Q92979;P62280;P61927;Q9BYC9;Q6NZI2;Q8TD47;Q9Y2R5;Q9NV31;P6226
9;P46781;Q7Z6M4;P62750;P62701;P22090;P46777;Q8NHM5;Q9UGY1;P82932;P32969;Q9H9Y2;Q9Y3A5
;Q9NX20}
5508 Pathogen[ Q85601] interacts with 23 human
partners:{P32969;Q9NV31;Q9UGY1;P62913;Q7Z6M4;Q9Y2R5;Q92979;Q9NX20;Q9H9Y2;Q9Y3A5;Q9BYC
9;P82932;P62701;P62280;P62269;Q8NHM5;Q6NZI2;P62750;P22090;P61927;P46777;P62917;P46781
}
5509 Pathogen[ P14079] interacts with 25 human
partners:{Q8IV48;Q92979;Q9NV31;P46781;Q9BYC9;Q8NHM5;Q9Y3A5;Q9UGY1;Q9Y2R5;P32969;P2209
0;P62750;P62280;Q9NX20;P46777;Q6NZI2;Q9H9Y2;Q7Z6M4;P61927;P62917;P62913;P62269;P62701
;O75616;Q8TD47}
5510 Pathogen[ P03383] interacts with 21 human
partners:{P62913;P62280;P62750;Q6NZI2;P61927;P46777;Q9NX20;Q9BYC9;P62917;P32969;Q9Y2R
5;Q9NV31;P62269;Q9UGY1;Q9Y3A5;P82932;Q7Z6M4;P46781;Q92979;P22090;P62701}

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5511 Pathogen[ P03410] interacts with 25 human partners:{Q6NZI2;P62913;Q8IV48;Q9UGY1;Q9NX20;P46777;P46781;P62269;P62280;P22090;P62701;P62750;Q96EY7;Q92979;P61927;Q9H9Y2;Q8TD47;P32969;Q9BYC9;Q9NV31;P62917;Q9Y3A5;Q9Y2R5;Q7Z6M4;O75616}

5512 Pathogen[ P14075] interacts with 22 human partners:{P46781;P32969;Q9UGY1;P62913;P22090;Q92979;Q9Y2R5;Q9NX20;P46777;P62750;Q9BYC9;Q6NZI2;Q9NV31;P62917;P62269;P82932;Q9H9Y2;P62701;P62280;Q7Z6M4;P61927;Q9Y3A5}

5513 Pathogen[ P0C206] interacts with 24 human partners:{Q7Z6M4;P62750;Q8IV48;P46781;P62280;P62913;P61927;Q92979;Q9BYC9;P32969;P62701;Q6NZI2;P22090;P46777;Q8NHM5;Q9NV31;Q9Y3A5;Q9H9Y2;P82932;Q9Y2R5;P62269;Q9NX20;Q9UGY1;P62917}

5514 Pathogen[ P03363] interacts with 22 human partners:{P62913;Q92979;Q9Y2R5;P62750;Q9H9Y2;P32969;P61927;Q9Y3A5;Q9NV31;Q9UGY1;P22090;P46781;Q9NX20;P46777;Q6NZI2;P62280;P82932;P62917;Q9BYC9;P62701;Q8TD47;P62269}

5515 [Cluster 502]GO:0003999+F molecular\_function [name] adenine phosphoribosyltransferase activity [def] "Catalysis of the reaction

5516 Pathogen[ Q2Q067] interacts with 1 human partners:{P07741}

5517 Pathogen[ P0C214] interacts with 1 human partners:{P07741}

5518 Pathogen[ P03346] interacts with 1 human partners:{P07741}

5519 Pathogen[ Q85601] interacts with 1 human partners:{P07741}

5520 Pathogen[ P14079] interacts with 1 human partners:{P07741}

5521 Pathogen[ P03383] interacts with 1 human partners:{P07741}

5522 Pathogen[ P03410] interacts with 1 human partners:{P07741}

5523 Pathogen[ P14075] interacts with 1 human partners:{P07741}

5524 Pathogen[ P0C206] interacts with 1 human partners:{P07741}

5525 Pathogen[ P03363] interacts with 1 human partners:{P07741}

5526 [Cluster 503]GO:0035255+F molecular\_function [name] ionotropic glutamate receptor binding [def] "Interacting selectively and non-covalently with an ionotropic glutamate receptor. Ionotropic glutamate receptors bind glutamate and exert an effect through the regulation of ion channels." [GOC

5527 Pathogen[ Q2Q067] interacts with 3 human partners:{P78352;Q9UPX8;Q92796}

5528 Pathogen[ P0C214] interacts with 3 human partners:{Q9UPX8;Q92796;P78352}

5529 Pathogen[ P03346] interacts with 4 human partners:{P78352;Q92796;Q9ULV0;Q9UPX8}

5530 Pathogen[ Q85601] interacts with 3 human partners:{Q9UPX8;P78352;Q92796}

5531 Pathogen[ P14079] interacts with 2 human partners:{Q92796;Q9UPX8}

5532 Pathogen[ P03383] interacts with 2 human partners:{Q92796;P78352}

5533 Pathogen[ P03410] interacts with 4 human partners:{Q9ULV0;Q92796;Q9UPX8;P78352}

5534 Pathogen[ P14075] interacts with 2 human partners:{Q92796;P78352}

5535 Pathogen[ P0C206] interacts with 3 human partners:{P78352;Q9UPX8;Q92796}

5536 Pathogen[ P03363] interacts with 3 human partners:{Q9UPX8;P78352;Q92796}

5537 [Cluster 504]GO:0016891+F molecular\_function [name] endoribonuclease activity, producing 5'-phosphomonoesters [def] "Catalysis of the hydrolysis of ester linkages within ribonucleic acids by creating internal breaks to yield 5'-phosphomonoesters." [GOC

5538 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9H777;Q9UKV8}

5539 Pathogen[ P0C214] interacts with 2 human partners:{Q9H777;Q9UKV8}

5540 Pathogen[ P03346] interacts with 2 human partners:{Q9H777;Q9UKV8}

5541 Pathogen[ Q85601] interacts with 2 human partners:{Q9H777;Q9UKV8}

5542 Pathogen[ P14079] interacts with 2 human partners:{Q9UKV8;Q9H777}

5543 Pathogen[ P03383] interacts with 2 human partners:{Q9H777;Q9UKV8}

5544 Pathogen[ P03410] interacts with 2 human partners:{Q9UKV8;Q9H777}

5545 Pathogen[ P14075] interacts with 2 human partners:{Q9H777;Q9UKV8}

5546 Pathogen[ P0C206] interacts with 2 human partners:{Q9UKV8;Q9H777}

5547 Pathogen[ P03363] interacts with 1 human partners:{Q9UKV8}

5548 [Cluster 505]GO:0008143+F molecular\_function [name] poly(A) RNA binding [def] "Interacting selectively and non-covalently with a sequence of adenylyl residues in an RNA molecule, such as the poly(A) tail, a sequence of adenylyl residues at the 3' end of eukaryotic mRNA." [GOC

5549 Pathogen[ Q2Q067] interacts with 7 human partners:{P38919;Q5VWX1;O60506;Q13310;Q92499;P11940;Q93062}

5550 Pathogen[ P0C214] interacts with 8 human partners:{Q13310;P31483;P11940;P38919;Q92499;O60506;Q5VWX1;Q93062}

5551 Pathogen[ P03346] interacts with 9 human partners:{Q93062;O60506;P38919;P11940;Q92499;P31483;Q5VWX1;O14979;Q13310}

5552 Pathogen[ Q85601] interacts with 7 human partners:{O60506;Q13310;Q5VWX1;Q92499;P38919;P11940;Q93062}

5553 Pathogen[ P14079] interacts with 7 human partners:{Q93062;Q13310;Q5VWX1;P11940;O60506;Q92499;P31483}

5554 Pathogen[ P03383] interacts with 6 human partners:{P38919;P11940;Q5VWX1;Q13310;Q92499;Q93062}

5555 Pathogen[ P03410] interacts with 8 human partners:{Q93062;P11940;Q5VWX1;Q92499;P31483;P38919;O60506;Q13310}

5556 Pathogen[ P14075] interacts with 6 human partners:{Q5VWX1;Q93062;Q92499;P11940;Q13310;P38919}

5557 Pathogen[ P0C206] interacts with 8 human partners:{P31483;O60506;Q13310;P38919;Q93062;Q92499;P11940;Q5VWX1}

5558 Pathogen[ P03363] interacts with 8 human

5559 partners:{P38919;P11940;O14979;Q5VWX1;Q13310;Q92499;O60506;P31483}  
[Cluster 506]GO:0005154+F molecular\_function [name] epidermal growth factor receptor  
binding [def] "Interacting selectively and non-covalently with the epidermal growth  
factor receptor." [GOC  
5560 Pathogen[ Q2Q067] interacts with 2 human partners:{O15162;Q99700}  
5561 Pathogen[ P0C214] interacts with 3 human partners:{P62993;Q99700;O15162}  
5562 Pathogen[ P03346] interacts with 4 human partners:{O75159;P62993;Q99700;O15162}  
5563 Pathogen[ Q85601] interacts with 3 human partners:{P62993;O15162;Q99700}  
5564 Pathogen[ P14079] interacts with 3 human partners:{O15162;Q99700;P62993}  
5565 Pathogen[ P03383] interacts with 2 human partners:{O15162;Q99700}  
5566 Pathogen[ P03410] interacts with 3 human partners:{Q99700;O15162;P62993}  
5567 Pathogen[ P14075] interacts with 2 human partners:{O15162;Q99700}  
5568 Pathogen[ P0C206] interacts with 3 human partners:{P62993;Q99700;O15162}  
5569 Pathogen[ P03363] interacts with 2 human partners:{O75159;Q99700}  
5570 [Cluster 507]GO:0009882+F molecular\_function [name] blue light photoreceptor activity  
[def] "The function of absorbing and responding to electromagnetic radiation with a  
wavelength of approximately 400-470nm. The response may involve a change in  
conformation." [GOC  
5571 Pathogen[ Q2Q067] interacts with 1 human partners:{Q16526}  
5572 Pathogen[ P0C214] interacts with 2 human partners:{Q49AN0;Q16526}  
5573 Pathogen[ P03346] interacts with 2 human partners:{Q49AN0;Q16526}  
5574 Pathogen[ Q85601] interacts with 2 human partners:{Q49AN0;Q16526}  
5575 Pathogen[ P14079] interacts with 2 human partners:{Q16526;Q49AN0}  
5576 Pathogen[ P03383] interacts with 1 human partners:{Q16526}  
5577 Pathogen[ P03410] interacts with 2 human partners:{Q16526;Q49AN0}  
5578 Pathogen[ P14075] interacts with 1 human partners:{Q16526}  
5579 Pathogen[ P0C206] interacts with 2 human partners:{Q16526;Q49AN0}  
5580 Pathogen[ P03363] interacts with 2 human partners:{Q49AN0;Q16526}  
5581 [Cluster 508]GO:0019902+F molecular\_function [name] phosphatase binding [def]  
"Interacting selectively and non-covalently with any phosphatase." [GOC  
5582 Pathogen[ Q2Q067] interacts with 19 human  
partners:{Q9H175;Q5T8A7;Q8TEL6;Q9HCH5;A8K8P3;Q9H788;Q86UL8;Q8TEP8;Q12959;P55199;Q86Y1  
3;P84022;Q92796;Q9Y2V2;Q15599;Q15796;Q9NX63;Q7Z5V6;Q7Z699}  
5583 Pathogen[ P0C214] interacts with 19 human  
partners:{Q9H788;Q9H175;Q7Z699;Q92796;Q9Y2V2;Q15599;A8K8P3;P84022;Q9HCH5;Q7Z5V6;Q8TEP  
8;Q9NX63;P55199;Q15796;Q12959;Q5T8A7;Q8TEL6;Q96LQ0;Q86Y13}  
5584 Pathogen[ P03346] interacts with 23 human  
partners:{Q7Z5V6;Q9Y2V2;Q9H788;Q15796;Q86WG5;Q9HCH5;Q8TEP8;Q92796;Q6NYC8;P84022;Q9H17  
5;Q15599;Q86UL8;P55199;Q86WC6;Q5T8A7;Q8TEL6;Q9NX63;Q7Z699;A8K8P3;Q8TEC5;Q86Y13;Q12959  
}  
5585 Pathogen[ Q85601] interacts with 18 human  
partners:{Q86UL8;Q9HCH5;Q8TEP8;Q9H175;Q9H788;Q9Y2V2;Q92796;Q5T8A7;P55199;P84022;Q1295  
9;Q9NX63;Q7Z699;A8K8P3;Q86Y13;Q15599;Q15796;Q8TEL6}  
5586 Pathogen[ P14079] interacts with 21 human  
partners:{P55199;Q8TEL6;Q8TEP8;Q9HCH5;Q5T8A7;A8K8P3;Q6ZMI0;Q9H175;Q8TAP8;Q7Z699;Q1559  
9;Q86WC6;Q4KMQ1;Q86WG5;Q86UL8;Q6PJW8;Q7Z5V6;Q92796;Q9Y2V2;Q9H788;Q96LQ0}  
5587 Pathogen[ P03383] interacts with 14 human  
partners:{P55199;Q9NX63;Q9HCH5;Q9H175;A8K8P3;Q8TEP8;P84022;Q8TEL6;Q9H788;Q5T8A7;Q1579  
6;Q92796;Q9Y2V2;Q7Z5V6}  
5588 Pathogen[ P03410] interacts with 26 human  
partners:{P84022;Q9HCH5;Q6NYC8;Q8TEP8;Q8TEL6;Q7Z699;Q96LQ0;Q12959;Q9Y2V2;Q9H175;Q86WC  
6;Q15599;Q7Z5V6;P55199;Q5T8A7;Q92796;Q6PJW8;Q8TAP8;Q9H788;Q9NX63;Q86UL8;Q6ZMI0;Q15796  
;A8K8P3;Q4KMQ1;Q86WG5}  
5589 Pathogen[ P14075] interacts with 18 human  
partners:{Q9H788;Q9H175;Q9NX63;Q7Z5V6;Q5T8A7;A8K8P3;Q9HCH5;Q9Y2V2;Q15796;Q8TEP8;Q8TEL  
6;Q6NYC8;Q96LQ0;Q92796;P55199;P84022;Q8TAP8;Q4KMQ1}  
5590 Pathogen[ P0C206] interacts with 25 human  
partners:{P84022;Q86WC6;Q9Y2V2;A8K8P3;Q15796;Q8TEP8;Q15599;Q9NX63;Q6PJW8;Q9H788;Q5T8A  
7;Q96LQ0;Q9H175;Q7Z5V6;Q8TEL6;Q4KMQ1;Q6NYC8;P55199;Q92796;Q8TAP8;Q86UL8;Q9HCH5;Q12959  
;Q7Z699;Q86Y13}  
5591 Pathogen[ P03363] interacts with 23 human  
partners:{Q12959;A8K8P3;Q9H175;P55199;Q9Y2V2;Q86Y13;Q86WC6;Q8TEP8;Q7Z699;Q86WG5;Q1579  
6;P84022;Q9H788;Q7Z5V6;Q5T8A7;Q15599;Q86UL8;Q8TEC5;Q9HCH5;Q92796;Q9NX63;Q6NYC8;Q8TEL6  
}  
5592 [Cluster 509]GO:0004525+F molecular\_function [name] ribonuclease III activity [def]  
"Catalysis of the endonucleolytic cleavage of RNA with 5'-phosphomonoesters and 3'-OH  
termini\_ makes two staggered cuts in both strands of dsRNA, leaving a 3' overhang of 2  
nt." [PMID  
5593 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9NRR4;Q9H9J2}  
5594 Pathogen[ P0C214] interacts with 2 human partners:{Q9H9J2;Q9NRR4}  
5595 Pathogen[ P03346] interacts with 2 human partners:{Q9NRR4;Q9H9J2}  
5596 Pathogen[ Q85601] interacts with 2 human partners:{Q9NRR4;Q9H9J2}  
5597 Pathogen[ P14079] interacts with 2 human partners:{Q9NRR4;Q9H9J2}  
5598 Pathogen[ P03383] interacts with 2 human partners:{Q9NRR4;Q9H9J2}  
5599 Pathogen[ P03410] interacts with 2 human partners:{Q9H9J2;Q9NRR4}  
5600 Pathogen[ P14075] interacts with 2 human partners:{Q9H9J2;Q9NRR4}



5601 Pathogen[ P0C206] interacts with 2 human partners:{Q9NRR4;Q9H9J2}  
5602 Pathogen[ P03363] interacts with 2 human partners:{Q9H9J2;Q9NRR4}  
5603 [Cluster 510]GO:0000989+F molecular\_function [name] transcription factor binding  
transcription factor activity [def] "Interacting selectively and non-covalently with a  
specific transcription factor, which may be a single protein or a complex, in order to  
modulate transcription. A protein binding transcription factor may or may not also  
interact with the template nucleic acid (either DNA or RNA) as well." [GOC  
5604 Pathogen[ Q2Q067] interacts with 5 human  
partners:{P27540;O94776;P35548;O43679;Q86U70}  
5605 Pathogen[ P0C214] interacts with 5 human  
partners:{O94776;Q86U70;O43679;P27540;P35548}  
5606 Pathogen[ P03346] interacts with 6 human  
partners:{Q86U70;P35548;O94776;Q92886;P27540;O43679}  
5607 Pathogen[ Q85601] interacts with 5 human  
partners:{O94776;Q86U70;P27540;O43679;P35548}  
5608 Pathogen[ P14079] interacts with 4 human partners:{O43679;Q86U70;P27540;O94776}  
5609 Pathogen[ P03383] interacts with 5 human  
partners:{P27540;O94776;Q86U70;P35548;O43679}  
5610 Pathogen[ P03410] interacts with 5 human  
partners:{O43679;P27540;P35548;Q86U70;O94776}  
5611 Pathogen[ P14075] interacts with 5 human  
partners:{Q86U70;P35548;O94776;P27540;O43679}  
5612 Pathogen[ P0C206] interacts with 5 human  
partners:{O43679;O94776;P35548;P27540;Q86U70}  
5613 Pathogen[ P03363] interacts with 6 human  
partners:{Q92886;Q86U70;P27540;P35548;O43679;O94776}  
5614 [Cluster 511]GO:0032813+F molecular\_function [name] tumor necrosis factor receptor  
superfamily binding [def] "Interacting selectively and non-covalently with any member of  
the tumor necrosis factor receptor superfamily." [GOC  
5615 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13158}  
5616 Pathogen[ P0C214] interacts with 1 human partners:{Q13158}  
5617 Pathogen[ P03346] interacts with 1 human partners:{Q13158}  
5618 Pathogen[ Q85601] interacts with 1 human partners:{Q13158}  
5619 Pathogen[ P14079] interacts with 1 human partners:{Q13158}  
5620 Pathogen[ P03383] interacts with 1 human partners:{Q13158}  
5621 Pathogen[ P03410] interacts with 1 human partners:{Q13158}  
5622 Pathogen[ P14075] interacts with 1 human partners:{Q13158}  
5623 Pathogen[ P0C206] interacts with 1 human partners:{Q13158}  
5624 Pathogen[ P03363] interacts with 1 human partners:{Q13158}  
5625 [Cluster 512]GO:0015271+F molecular\_function [name] outward rectifier potassium  
channel activity [def] "Catalysis of the transmembrane transfer of a potassium ion by  
an outwardly-rectifying voltage-gated channel. An outwardly rectifying current-voltage  
relation is one where at any given driving force the outward flow of K+ ions exceeds the  
inward flow for the opposite driving force." [GOC  
5626 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13127}  
5627 Pathogen[ P0C214] interacts with 1 human partners:{Q13127}  
5628 Pathogen[ P03346] interacts with 1 human partners:{Q13127}  
5629 Pathogen[ Q85601] interacts with 1 human partners:{Q13127}  
5630 Pathogen[ P14079] interacts with 1 human partners:{Q13127}  
5631 Pathogen[ P03383] interacts with 1 human partners:{Q13127}  
5632 Pathogen[ P03410] interacts with 1 human partners:{Q13127}  
5633 Pathogen[ P14075] interacts with 1 human partners:{Q13127}  
5634 Pathogen[ P0C206] interacts with 1 human partners:{Q13127}  
5635 Pathogen[ P03363] interacts with 1 human partners:{Q13127}  
5636 [Cluster 513]GO:0001076+F molecular\_function [name] RNA polymerase II transcription  
factor binding transcription factor activity [def] "Interacting selectively and  
non-covalently with an RNA polymerase II transcription factor, which may be a single  
protein or a complex, in order to modulate transcription. A protein binding transcription  
factor may or may not also interact with the template nucleic acid (either DNA or RNA) as  
well." [GOC  
5637 Pathogen[ Q2Q067] interacts with 5 human  
partners:{P46937;P11831;Q8WVJ9;P15336;Q6ZN01}  
5638 Pathogen[ P0C214] interacts with 5 human  
partners:{P15336;P46937;P11831;Q6ZN01;Q8WVJ9}  
5639 Pathogen[ P03346] interacts with 5 human  
partners:{P46937;P15336;P11831;Q8WVJ9;Q6ZN01}  
5640 Pathogen[ Q85601] interacts with 5 human  
partners:{P11831;Q6ZN01;P46937;P15336;Q8WVJ9}  
5641 Pathogen[ P14079] interacts with 3 human partners:{Q8WVJ9;P46937;P15336}  
5642 Pathogen[ P03383] interacts with 5 human  
partners:{P11831;Q8WVJ9;P15336;Q6ZN01;P46937}  
5643 Pathogen[ P03410] interacts with 5 human  
partners:{P11831;Q6ZN01;Q8WVJ9;P46937;P15336}  
5644 Pathogen[ P14075] interacts with 5 human  
partners:{Q6ZN01;P11831;P15336;Q8WVJ9;P46937}  
5645 Pathogen[ P0C206] interacts with 5 human

5646 Pathogen[ P03363] interacts with 5 human partners:{P46937;P15336;Q8WVJ9;P11831;Q6ZN01}

5647 [Cluster 514]GO:0005545+F molecular\_function [name] 1-phosphatidylinositol binding [def] "Interacting selectively and non-covalently with phosphatidylinositol, any glycerophospholipid with its sn-glycerol 3-phosphate residue is esterified to the 1-hydroxyl group of 1D-myo-inositol." [ISBN

5648 Pathogen[ Q2Q067] interacts with 6 human partners:{Q86VW0;P11171;Q9HB19;Q8IZQ1;Q68DX3;P27986}

5649 Pathogen[ P0C214] interacts with 6 human partners:{Q68DX3;Q86VW0;Q9HB19;Q8IZQ1;P27986;P11171}

5650 Pathogen[ P03346] interacts with 11 human partners:{O95405;Q9HB19;Q68DX3;Q8IZQ1;Q9HAU0;P11171;Q7Z3T8;Q86VW0;Q13492;Q9HBF4;P27986}

5651 Pathogen[ Q85601] interacts with 8 human partners:{Q9HBF4;P11171;P27986;Q9HAU0;Q68DX3;Q8IZQ1;Q9HB19;Q86VW0}

5652 Pathogen[ P14079] interacts with 11 human partners:{Q13492;Q68DX3;P11171;O95405;Q9HB19;Q9HAU0;Q9Y6U3;Q15075;Q7Z3T8;Q86VW0;Q9HBF4}

5653 Pathogen[ P03383] interacts with 4 human partners:{P27986;Q8IZQ1;Q68DX3;Q9HB19}

5654 Pathogen[ P03410] interacts with 12 human partners:{P27986;O95405;Q9HAU0;Q9Y6U3;P11171;Q13492;Q9HBF4;Q9HB19;Q68DX3;Q7Z3T8;Q8IZQ1;Q86VW0}

5655 Pathogen[ P14075] interacts with 5 human partners:{Q68DX3;Q8IZQ1;P27986;Q9HB19;P11171}

5656 Pathogen[ P0C206] interacts with 11 human partners:{Q9HB19;Q9HAU0;Q86VW0;Q8IWB7;P27986;Q8IZQ1;Q7Z3T8;O95405;Q68DX3;Q9HBF4;P11171}

5657 Pathogen[ P03363] interacts with 8 human partners:{Q9HAU0;O95405;P11171;Q9HB19;Q8IZQ1;Q86VW0;P27986;Q68DX3}

5658 [Cluster 515]GO:0080025+F molecular\_function [name] phosphatidylinositol-3,5-bisphosphate binding [def] "Interacting selectively and non-covalently with phosphatidylinositol-3,5-bisphosphate, a derivative of phosphatidylinositol in which the inositol ring is phosphorylated at the 3' and 5' positions." [GOC

5659 Pathogen[ Q2Q067] interacts with 3 human partners:{Q86VW0;P55895;Q9Y4P8}

5660 Pathogen[ P0C214] interacts with 3 human partners:{Q86VW0;P55895;Q9Y4P8}

5661 Pathogen[ P03346] interacts with 3 human partners:{P55895;Q86VW0;Q9Y4P8}

5662 Pathogen[ Q85601] interacts with 3 human partners:{Q9Y4P8;P55895;Q86VW0}

5663 Pathogen[ P14079] interacts with 2 human partners:{Q9Y4P8;Q86VW0}

5664 Pathogen[ P03383] interacts with 2 human partners:{P55895;Q9Y4P8}

5665 Pathogen[ P03410] interacts with 4 human partners:{P55895;Q9Y4P8;Q5MNZ9;Q86VW0}

5666 Pathogen[ P14075] interacts with 2 human partners:{Q9Y4P8;P55895}

5667 Pathogen[ P0C206] interacts with 3 human partners:{Q86VW0;Q9Y4P8;P55895}

5668 Pathogen[ P03363] interacts with 3 human partners:{Q9Y4P8;P55895;Q86VW0}

5669 [Cluster 516]GO:0071164+F molecular\_function [name] RNA trimethylguanosine synthase activity [def] "Catalysis of two successive methyl transfer reactions from AdoMet to the N-2 atom of guanosine, thereby converting 7-methylguanosine in an RNA cap to 2,2,7-trimethylguanosine." [GOC

5670 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96RS0}

5671 Pathogen[ P0C214] interacts with 1 human partners:{Q96RS0}

5672 Pathogen[ P03346] interacts with 1 human partners:{Q96RS0}

5673 Pathogen[ Q85601] interacts with 1 human partners:{Q96RS0}

5674 Pathogen[ P14079] interacts with 1 human partners:{Q96RS0}

5675 Pathogen[ P03383] interacts with 1 human partners:{Q96RS0}

5676 Pathogen[ P03410] interacts with 1 human partners:{Q96RS0}

5677 Pathogen[ P14075] interacts with 1 human partners:{Q96RS0}

5678 Pathogen[ P0C206] interacts with 1 human partners:{Q96RS0}

5679 Pathogen[ P03363] interacts with 1 human partners:{Q96RS0}

5680 [Cluster 517]GO:0001228+F

5681 Pathogen[ Q2Q067] interacts with 2 human partners:{P11831;P25791}

5682 Pathogen[ P0C214] interacts with 2 human partners:{P11831;P25791}

5683 Pathogen[ P03346] interacts with 3 human partners:{P11831;P15173;P25791}

5684 Pathogen[ Q85601] interacts with 2 human partners:{P11831;P25791}

5685 Pathogen[ P14079] interacts with 1 human partners:{P25791}

5686 Pathogen[ P03383] interacts with 2 human partners:{P11831;P25791}

5687 Pathogen[ P03410] interacts with 2 human partners:{P11831;P25791}

5688 Pathogen[ P14075] interacts with 2 human partners:{P11831;P25791}

5689 Pathogen[ P0C206] interacts with 2 human partners:{P25791;P11831}

5690 Pathogen[ P03363] interacts with 2 human partners:{P25791;P11831}

5691 [Cluster 518]GO:0042623+F molecular\_function [name] ATPase activity, coupled [def] "Catalysis of the reaction

5692 Pathogen[ Q2Q067] interacts with 4 human partners:{O75351;Q14204;P11142;Q9UN37}

5693 Pathogen[ P0C214] interacts with 4 human partners:{O75351;Q14204;Q9UN37;P11142}

5694 Pathogen[ P03346] interacts with 5 human partners:{P11142;Q14204;O75351;O43933;Q9UN37}

5695 Pathogen[ Q85601] interacts with 6 human  
partners:{Q14204;O96015;O75351;P11142;O43933;Q9UN37}

5696 Pathogen[ P14079] interacts with 6 human  
partners:{P11142;Q14204;P50990;Q9UN37;O75351;O96015}

5697 Pathogen[ P03383] interacts with 2 human partners:{P11142;Q9UN37}

5698 Pathogen[ P03410] interacts with 6 human  
partners:{Q14204;O75351;P11142;P50990;Q9UN37;O96015}

5699 Pathogen[ P14075] interacts with 2 human partners:{P11142;Q9UN37}

5700 Pathogen[ P0C206] interacts with 6 human  
partners:{O43933;Q9UN37;Q14204;O75351;P11142;O96015}

5701 Pathogen[ P03363] interacts with 5 human  
partners:{O43933;Q14204;O75351;Q9UN37;P11142}

5702 [Cluster 519]GO:0070888+F molecular\_function [name] E-box binding [def]  
"Interacting selectively and non-covalently with an E-box, a DNA motif with the consensus  
sequence CANNTG that is found in the promoters of a wide array of genes expressed in  
neurons, muscle and other tissues." [GOC

5703 Pathogen[ Q2Q067] interacts with 12 human  
partners:{Q13562;P15884;Q99081;P01106;O14503;Q01664;P13349;P37275;P15172;P25791;P1592  
3;P23409}

5704 Pathogen[ P0C214] interacts with 10 human  
partners:{Q99081;P15884;P13349;P15172;P37275;O14503;P15923;P25791;Q01664;P01106}

5705 Pathogen[ P03346] interacts with 22 human  
partners:{Q99081;P13349;Q12772;P15923;P15172;P23409;Q92886;P15173;O15534;O14503;O4368  
0;P01106;P25791;P17542;Q9C0J9;P37275;Q99929;O15516;Q13562;Q01664;P15884;Q9H2A3}

5706 Pathogen[ Q85601] interacts with 15 human  
partners:{P01106;O15534;P15172;P13349;O15516;Q12772;O14503;Q13562;P23409;P25791;P1592  
3;P37275;Q99081;Q01664;P15884}

5707 Pathogen[ P14079] interacts with 12 human  
partners:{P13349;P23409;P15923;Q12772;P25791;Q01664;P01106;P15884;Q99081;O14503;P3727  
5;O15534}

5708 Pathogen[ P03383] interacts with 8 human  
partners:{P15172;P01106;P37275;P15923;O14503;Q01664;P25791;Q99081}

5709 Pathogen[ P03410] interacts with 11 human  
partners:{P23409;P37275;P01106;P25791;P15884;P15923;Q99081;Q12772;O15534;P13349;Q0166  
4}

5710 Pathogen[ P14075] interacts with 9 human  
partners:{P15172;P15923;P01106;O14503;P25791;Q01664;P15884;P37275;Q99081}

5711 Pathogen[ P0C206] interacts with 16 human  
partners:{O15534;Q9C0J9;P23409;O15516;Q99081;P13349;P15923;P15884;P25791;Q13562;Q0166  
4;P37275;P15172;P01106;Q12772;Q9H2A3}

5712 Pathogen[ P03363] interacts with 16 human  
partners:{Q92886;Q99929;P37275;Q9C0J9;P01106;P13349;P25791;P15923;P23409;P15884;Q9908  
1;P15172;O15534;Q01664;O14503;Q9H2A3}

5713 [Cluster 520]GO:0000182+F molecular\_function [name] rDNA binding [def] "Interacting  
selectively and non-covalently with DNA sequences encoding ribosomal RNA." [GOC

5714 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9H2G4}

5715 Pathogen[ P0C214] interacts with 1 human partners:{Q9H2G4}

5716 Pathogen[ P03346] interacts with 1 human partners:{Q9H2G4}

5717 Pathogen[ Q85601] interacts with 1 human partners:{Q9H2G4}

5718 Pathogen[ P14079] interacts with 1 human partners:{Q9H2G4}

5719 Pathogen[ P03383] interacts with 1 human partners:{Q9H2G4}

5720 Pathogen[ P03410] interacts with 1 human partners:{Q9H2G4}

5721 Pathogen[ P14075] interacts with 1 human partners:{Q9H2G4}

5722 Pathogen[ P0C206] interacts with 1 human partners:{Q9H2G4}

5723 Pathogen[ P03363] interacts with 1 human partners:{Q9H2G4}

5724 [Cluster 521]GO:0042043+F molecular\_function [name] neurexin family protein binding  
[def] "Interacting selectively and non-covalently with neurexins, synaptic cell surface  
proteins related to latrotoxin receptor, laminin and agrin. Neurexins act as cell  
recognition molecules at nerve terminals." [GOC

5725 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9HCH5}

5726 Pathogen[ P0C214] interacts with 1 human partners:{Q9HCH5}

5727 Pathogen[ P03346] interacts with 2 human partners:{Q9HCH5;Q8IYJ3}

5728 Pathogen[ Q85601] interacts with 1 human partners:{Q9HCH5}

5729 Pathogen[ P14079] interacts with 2 human partners:{Q8IYJ3;Q9HCH5}

5730 Pathogen[ P03383] interacts with 1 human partners:{Q9HCH5}

5731 Pathogen[ P03410] interacts with 2 human partners:{Q9HCH5;Q8IYJ3}

5732 Pathogen[ P14075] interacts with 1 human partners:{Q9HCH5}

5733 Pathogen[ P0C206] interacts with 2 human partners:{Q8IYJ3;Q9HCH5}

5734 Pathogen[ P03363] interacts with 1 human partners:{Q9HCH5}

5735 [Cluster 522]GO:0017151+F molecular\_function [name] DEAD/H-box RNA helicase binding  
[def] "Interacting selectively and non-covalently with the enzyme DEAD/H-box RNA  
helicase." [GOC

5736 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9ULX6;Q8TDD2}

5737 Pathogen[ P0C214] interacts with 2 human partners:{Q9ULX6;Q8TDD2}

5738 Pathogen[ P03346] interacts with 3 human partners:{Q9ULX6;Q8TDD2;Q9NUX5}

5739 Pathogen[ Q85601] interacts with 2 human partners:{Q8TDD2;Q9ULX6}

5740 Pathogen[ P14079] interacts with 3 human partners:{Q9NUX5;Q9ULX6;Q8TDD2}

5741 Pathogen[ P03383] interacts with 1 human partners:{Q9ULX6}

5742 Pathogen[ P03410] interacts with 3 human partners:{Q9NUX5;Q8TDD2;Q9ULX6}

5743 Pathogen[ P14075] interacts with 1 human partners:{Q9ULX6}

5744 Pathogen[ P0C206] interacts with 3 human partners:{Q9ULX6;Q9NUX5;Q8TDD2}

5745 Pathogen[ P03363] interacts with 3 human partners:{Q8TDD2;Q9NUX5;Q9ULX6}

5746 [Cluster 523]GO:0071796+F molecular\_function [name] K6-linked polyubiquitin binding [def] "Interacting selectively and non-covalently and non-covalently with a polymer of ubiquitin formed by linkages between lysine residues at position 6 of the ubiquitin monomers." [GOC

5747 Pathogen[ Q2Q067] interacts with 1 human partners:{Q04323}

5748 Pathogen[ P0C214] interacts with 1 human partners:{Q04323}

5749 Pathogen[ P03346] interacts with 1 human partners:{Q04323}

5750 Pathogen[ Q85601] interacts with 1 human partners:{Q04323}

5751 Pathogen[ P14079] interacts with 1 human partners:{Q04323}

5752 Pathogen[ P03383] interacts with 1 human partners:{Q04323}

5753 Pathogen[ P03410] interacts with 1 human partners:{Q04323}

5754 Pathogen[ P14075] interacts with 1 human partners:{Q04323}

5755 Pathogen[ P0C206] interacts with 1 human partners:{Q04323}

5756 Pathogen[ P03363] interacts with 1 human partners:{Q04323}

5757 [Cluster 524]GO:0030274+F molecular\_function [name] LIM domain binding [def] "Interacting selectively and non-covalently with a LIM domain (for Lin-11 Isl-1 Mec-3) of a protein, a domain with seven conserved cysteine residues and a histidine, that binds two zinc ions and acts as an interface for protein-protein interactions." [GOC

5758 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9H8E8;O43679;Q86U70}

5759 Pathogen[ P0C214] interacts with 3 human partners:{Q86U70;O43679;Q9H8E8}

5760 Pathogen[ P03346] interacts with 3 human partners:{Q86U70;Q9H8E8;O43679}

5761 Pathogen[ Q85601] interacts with 3 human partners:{Q86U70;Q9H8E8;O43679}

5762 Pathogen[ P14079] interacts with 3 human partners:{O43679;Q9H8E8;Q86U70}

5763 Pathogen[ P03383] interacts with 3 human partners:{Q86U70;Q9H8E8;O43679}

5764 Pathogen[ P03410] interacts with 3 human partners:{O43679;Q86U70;Q9H8E8}

5765 Pathogen[ P14075] interacts with 3 human partners:{Q86U70;Q9H8E8;O43679}

5766 Pathogen[ P0C206] interacts with 2 human partners:{O43679;Q86U70}

5767 Pathogen[ P03363] interacts with 3 human partners:{Q86U70;Q9H8E8;O43679}

5768 [Cluster 525]GO:0032399+F molecular\_function [name] HECT domain binding [def] "Interacting selectively and non-covalently with a HECT, 'Homologous to the E6-AP Carboxyl Terminus', domain of a protein." [GOC

5769 Pathogen[ Q2Q067] interacts with 1 human partners:{O14599}

5770 Pathogen[ P0C214] interacts with 1 human partners:{O14599}

5771 Pathogen[ P03346] interacts with 1 human partners:{O14599}

5772 Pathogen[ Q85601] interacts with 1 human partners:{O14599}

5773 Pathogen[ P14079] interacts with 1 human partners:{O14599}

5774 Pathogen[ P03383] interacts with 1 human partners:{O14599}

5775 Pathogen[ P03410] interacts with 1 human partners:{O14599}

5776 Pathogen[ P14075] interacts with 1 human partners:{O14599}

5777 Pathogen[ P0C206] interacts with 1 human partners:{O14599}

5778 Pathogen[ P03363] interacts with 1 human partners:{O14599}

5779 [Cluster 526]GO:0032564+F molecular\_function [name] dATP binding [def] "Interacting selectively and non-covalently with dATP, deoxyadenosine triphosphate." [GOC

5780 Pathogen[ Q2Q067] interacts with 2 human partners:{P50502;P08238}

5781 Pathogen[ P0C214] interacts with 1 human partners:{P50502}

5782 Pathogen[ P03346] interacts with 2 human partners:{P50502;P08238}

5783 Pathogen[ Q85601] interacts with 3 human partners:{P08238;P50502;P19447}

5784 Pathogen[ P14079] interacts with 3 human partners:{P08238;P50502;P19447}

5785 Pathogen[ P03383] interacts with 2 human partners:{P50502;P08238}

5786 Pathogen[ P03410] interacts with 3 human partners:{P50502;P08238;P19447}

5787 Pathogen[ P14075] interacts with 2 human partners:{P08238;P50502}

5788 Pathogen[ P0C206] interacts with 3 human partners:{P19447;P50502;P08238}

5789 Pathogen[ P03363] interacts with 2 human partners:{P50502;P08238}

5790 [Cluster 527]GO:0035254+F molecular\_function [name] glutamate receptor binding [def] "Interacting selectively and non-covalently with a glutamate receptor." [GOC

5791 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BSU1}

5792 Pathogen[ P0C214] interacts with 1 human partners:{Q9BSU1}

5793 Pathogen[ P03346] interacts with 1 human partners:{Q9BSU1}

5794 Pathogen[ Q85601] interacts with 1 human partners:{Q9BSU1}

5795 Pathogen[ P14079] interacts with 1 human partners:{Q9BSU1}

5796 Pathogen[ P03383] interacts with 1 human partners:{Q9BSU1}

5797 Pathogen[ P03410] interacts with 1 human partners:{Q9BSU1}

5798 Pathogen[ P14075] interacts with 1 human partners:{Q9BSU1}

5799 Pathogen[ P0C206] interacts with 1 human partners:{Q9BSU1}

5800 Pathogen[ P03363] interacts with 1 human partners:{Q9BSU1}

5801 [Cluster 528]GO:0008234+F molecular\_function [name] cysteine-type peptidase activity [def] "Catalysis of the hydrolysis of peptide bonds in a polypeptide chain by a mechanism in which the sulfhydryl group of a cysteine residue at the active center acts as a nucleophile." [GOC

5802 Pathogen[ Q2Q067] interacts with 16 human

5803 partners:{Q9Y5K5;P54252;Q93009;O00303;Q9Y4P1;O15519;Q14674;Q14790;Q9GZR1;P55212;Q86T82;P42575;Q93008;Q9HC62;Q13867;Q96HI0}  
Pathogen[ P0C214] interacts with 19 human

5804 partners:{Q96HI0;P55212;Q13867;Q92560;Q9Y4P1;Q93008;Q9Y5K5;O15519;O00303;P42574;Q93009;Q9GZR1;Q9HC62;P55210;Q9H3M9;P42575;P54252;Q14790;Q14674}  
Pathogen[ P03346] interacts with 31 human

5805 partners:{Q9BXU7;Q93009;Q9GZR1;Q92560;Q9Y4P1;Q9H3M9;Q93008;P42575;P42574;P55212;Q86T82;O15519;O00303;Q9UHP3;Q14694;P51784;Q86UV5;O75604;Q13867;P55211;Q14790;Q9HC62;P55210;Q96HI0;Q96FW1;Q6GQQ9;O94782;Q14674;Q9Y5K5;Q9H0E7;P54252}  
Pathogen[ Q85601] interacts with 22 human

5806 partners:{Q9Y5T5;Q9H0E7;Q93009;Q14790;Q92560;Q9Y4P1;Q9HC62;Q9H3M9;O00303;Q14674;Q13867;Q93008;P54252;Q9NQC7;P42575;Q9Y5K5;Q86T82;Q96HI0;P55212;Q9GZR1;O15519;P55210}  
Pathogen[ P14079] interacts with 23 human

5807 partners:{Q9NUQ7;O00303;Q9H3M9;O15519;Q96HI0;P54252;Q86TL0;Q9NXJ5;Q14674;Q9Y4P1;P55212;Q9Y5K5;Q9HC62;Q14790;P55210;Q92560;Q13867;Q5W0Q7;A6NFU8;P42575;Q9GZR1;Q9NQC7;Q96FW1}  
Pathogen[ P03383] interacts with 10 human

5808 partners:{P55212;Q9Y4P1;P54252;Q14674;Q96HI0;Q13867;Q9Y5K5;Q9HC62;Q9H3M9;Q9GZR1}  
Pathogen[ P03410] interacts with 18 human

5809 partners:{Q96FW1;Q9H3M9;Q9Y4P1;P42575;O15519;Q13867;Q96HI0;P54252;Q9GZR1;Q14674;Q9NXJ5;Q86TL0;Q9HC62;A6NFU8;O00303;Q9Y5K5;P55212;P55210}  
Pathogen[ P14075] interacts with 11 human

5810 partners:{P55212;Q9Y4P1;Q96FW1;P54252;Q96HI0;Q9HC62;Q13867;Q14674;Q9H3M9;Q9GZR1;Q9Y5K5}  
Pathogen[ P0C206] interacts with 29 human

5811 partners:{Q9NQC7;Q9NXJ5;Q9Y5T5;Q93008;Q96HI0;Q9Y4P1;O75604;Q9HC62;P55212;Q93009;P54252;Q9H0E7;O15519;Q9Y5K5;Q13867;Q9GZR1;Q9H3M9;Q96FW1;Q14790;Q86T82;Q6GQQ9;P42574;Q9UHP3;Q14674;Q86TL0;P42575;P55210;O00303;Q92560}  
Pathogen[ P03363] interacts with 21 human

5812 partners:{Q9Y5K5;O15519;P51784;Q6GQQ9;Q9UHP3;O75604;P54252;Q13867;Q92560;P55212;Q9HC62;Q86T82;Q14674;Q9BXU7;Q96HI0;P55210;Q9Y4P1;Q9GZR1;Q93008;Q96FW1;O00303}  
[Cluster 529]GO:0035197+F molecular\_function [name] siRNA binding [def]  
"Interacting selectively and non-covalently with a small interfering RNA, a 21-23 nucleotide RNA that is processed from double stranded RNA (dsRNA) by an RNase enzyme."  
[PMID

5813 Pathogen[ Q2Q067] interacts with 4 human partners:{Q9UBB5;O60535;Q15633;Q9UKV8}  
5814 Pathogen[ P0C214] interacts with 4 human partners:{O60535;Q15633;Q9UKV8;Q9UBB5}  
5815 Pathogen[ P03346] interacts with 4 human partners:{Q15633;Q9UKV8;O60535;Q9UBB5}  
5816 Pathogen[ Q85601] interacts with 4 human partners:{O60535;Q9UKV8;Q15633;Q9UBB5}  
5817 Pathogen[ P14079] interacts with 2 human partners:{Q9UKV8;Q9UBB5}  
5818 Pathogen[ P03383] interacts with 4 human partners:{Q9UBB5;O60535;Q9UKV8;Q15633}  
5819 Pathogen[ P03410] interacts with 4 human partners:{Q9UKV8;Q15633;O60535;Q9UBB5}  
5820 Pathogen[ P14075] interacts with 4 human partners:{Q9UBB5;Q9UKV8;Q15633;O60535}  
5821 Pathogen[ P0C206] interacts with 4 human partners:{Q9UBB5;Q9UKV8;O60535;Q15633}  
5822 Pathogen[ P03363] interacts with 4 human partners:{O60535;Q9UKV8;Q15633;Q9UBB5}  
5823 [Cluster 530]GO:0016279+F molecular\_function [name] protein-lysine N-methyltransferase activity [def]  
"Catalysis of the transfer of a methyl group from S-adenosyl-L-methionine to the epsilon-amino group of a lysine residue in a protein substrate." [PMID

5824 Pathogen[ Q2Q067] interacts with 3 human partners:{Q8TBK2;Q9NRG4;Q8WTS6}  
5825 Pathogen[ P0C214] interacts with 4 human partners:{Q8WTS6;Q9NQR1;Q9NRG4;Q8TBK2}  
5826 Pathogen[ P03346] interacts with 4 human partners:{Q9NQR1;Q8TBK2;Q9NRG4;Q8WTS6}  
5827 Pathogen[ Q85601] interacts with 4 human partners:{Q8TBK2;Q9NQR1;Q8WTS6;Q9NRG4}  
5828 Pathogen[ P14079] interacts with 4 human partners:{Q9NRG4;Q9NQR1;Q8TBK2;Q8WTS6}  
5829 Pathogen[ P03383] interacts with 4 human partners:{Q9NRG4;Q8WTS6;Q8TBK2;Q9NQR1}  
5830 Pathogen[ P03410] interacts with 4 human partners:{Q8WTS6;Q8TBK2;Q9NQR1;Q9NRG4}  
5831 Pathogen[ P14075] interacts with 4 human partners:{Q9NQR1;Q8TBK2;Q9NRG4;Q8WTS6}  
5832 Pathogen[ P0C206] interacts with 4 human partners:{Q9NRG4;Q9NQR1;Q8WTS6;Q8TBK2}  
5833 Pathogen[ P03363] interacts with 4 human partners:{Q8TBK2;Q9NRG4;Q9NQR1;Q8WTS6}  
5834 [Cluster 531]GO:0005215+F molecular\_function [name] transporter activity [def]  
"Enables the directed movement of substances (such as macromolecules, small molecules, ions) into, out of or within a cell, or between cells." [GOC

5835 Pathogen[ Q2Q067] interacts with 26 human  
partners:{P52948;Q10567;O43747;P49790;Q92572;Q9Y2B5;O75694;P61970;Q99567;Q08378;O00189;P05413;O95198;P11166;Q96CW1;O14980;Q13428;P62072;O95373;Q9Y5J7;O95487;Q5T2W1;P14672;P35658;Q13367;O75901}

5836 Pathogen[ P0C214] interacts with 29 human  
partners:{Q9Y2B5;Q96CW1;O95198;O00189;Q13367;Q99567;O75694;Q08378;P05413;P62072;P11166;Q13428;Q5T2W1;Q10567;P11168;Q92572;P49790;O43681;O14980;O95487;O75901;P35658;O43747;Q9Y5J7;P53680;P61970;P14672;O95373;P52948}

5837 Pathogen[ P03346] interacts with 38 human  
partners:{P21283;P29373;Q5T2W1;Q9Y6B7;Q99567;P05413;O75901;P07148;O43747;O75694;Q92572;P53680;Q9Y5J7;Q08378;O00189;P35658;Q01469;Q10567;O14980;Q9Y587;O95373;Q96CW1;P51161;O95198;P11166;Q13428;Q99829;P62072;O75131;Q13367;P49790;O95487;O14617;P61970;P14672;Q9Y2J0;Q9Y2B5;P52948}

5838 Pathogen[ Q85601] interacts with 31 human

partners:{Q13367;P11168;Q5T2W1;P05413;Q96CW1;O95487;P51161;P62072;Q9Y5J7;O43747;Q08378;P61970;Q10567;O75694;O43681;Q9Y2B5;P11166;Q13428;O95373;P52948;P53680;O14980;P35658;O75901;Q9Y6B7;Q99567;Q92572;P14672;P49790;O00189;O95198}

5839 Pathogen[ P14079] interacts with 39 human  
partners:{O95373;Q96CW1;P61970;O95487;Q8NBQ7;P62072;P35658;Q99829;P14672;Q10567;Q9Y6B7;Q13428;O00189;Q08378;Q9Y5J7;P11166;P05413;Q96NT5;Q92572;Q95198;Q86UW1;O43681;Q99567;Q9Y2B5;P05814;O14653;P51811;P49790;Q5T2W1;Q13367;O43747;O14617;Q01469;O95235;O75694;P53680;O75901;Q9Y587;P52948}

5840 Pathogen[ P03383] interacts with 25 human  
partners:{Q96CW1;Q9Y5J7;Q92572;P62072;O95487;Q5T2W1;P52948;Q10567;Q9Y2B5;O00189;P11168;Q99567;O75901;Q13428;O14980;O43747;P35658;Q13367;P11169;O95373;P61970;P14672;P49790;O75694;P22732}

5841 Pathogen[ P03410] interacts with 43 human  
partners:{Q99567;Q96CW1;P22732;P51161;P62072;P47710;P53680;Q5T2W1;Q9Y2J0;P11166;Q86UW1;P05413;O43747;Q9Y5J7;P05141;P52948;Q10567;P11168;Q92572;Q08378;O75694;Q9Y2B5;Q99829;O14617;Q9Y587;Q9Y6B7;P49790;P35658;O95198;Q15049;O75901;Q13428;O14653;Q01469;Q13367;P51811;O43681;P18859;O14980;O95373;O95487;P05814;P61970}

5842 Pathogen[ P14075] interacts with 25 human  
partners:{P11169;P62072;Q96CW1;P61970;P22732;P35658;O75901;O14980;O00189;O95487;O95373;O43747;Q92572;Q5T2W1;Q13428;Q99567;Q9Y5J7;P11168;P49790;P14672;O75694;Q10567;Q9Y2B5;Q13367;P52948}

5843 Pathogen[ P0C206] interacts with 36 human  
partners:{P53680;Q9Y6B7;P49790;Q92572;O43747;Q10567;O14653;P51161;Q9Y2J0;O43681;Q9Y2B5;P29373;Q99829;P11166;Q9Y5J7;Q5T2W1;Q9Y587;P05413;P11168;Q13428;O95373;O75694;O95487;Q96CW1;Q08378;Q99567;P62072;P14672;O14617;O95198;Q01469;O00189;P61970;O75901;P35658;Q13367}

5844 Pathogen[ P03363] interacts with 30 human  
partners:{Q9Y2B5;Q99829;Q13367;Q13428;O43747;P61970;O14980;Q01469;Q9Y6B7;P51161;Q92572;Q99567;P29373;O75901;Q9Y5J7;P05413;P35658;Q08378;O95198;O75694;P49790;O00189;P14672;O95487;O95373;P52948;Q5T2W1;P11166;Q10567;Q96CW1}

5845 [Cluster 532]GO:0030366+F molecular\_function [name] Mo-molybdopterin synthase activity [def] "Catalysis of the conversion of precursor Z to molybdopterin, the final step in molybdopterin biosynthesis." [PMID  
5846 Pathogen[ Q2Q067] interacts with 1 human partners:{O96007}  
5847 Pathogen[ P0C214] interacts with 2 human partners:{O96033;O96007}  
5848 Pathogen[ P03346] interacts with 1 human partners:{O96007}  
5849 Pathogen[ Q85601] interacts with 1 human partners:{O96007}  
5850 Pathogen[ P14079] interacts with 2 human partners:{O96007;O96033}  
5851 Pathogen[ P03383] interacts with 1 human partners:{O96007}  
5852 Pathogen[ P03410] interacts with 2 human partners:{O96007;O96033}  
5853 Pathogen[ P14075] interacts with 1 human partners:{O96007}  
5854 Pathogen[ P0C206] interacts with 1 human partners:{O96007}  
5855 Pathogen[ P03363] interacts with 1 human partners:{O96007}

5856 [Cluster 533]GO:0070611+F molecular\_function [name] histone methyltransferase activity (H3-R2 specific) [def] "Catalysis of the reaction  
5857 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96LA8}  
5858 Pathogen[ P0C214] interacts with 1 human partners:{Q96LA8}  
5859 Pathogen[ P03346] interacts with 1 human partners:{Q96LA8}  
5860 Pathogen[ Q85601] interacts with 1 human partners:{Q96LA8}  
5861 Pathogen[ P14079] interacts with 1 human partners:{Q96LA8}  
5862 Pathogen[ P03383] interacts with 1 human partners:{Q96LA8}  
5863 Pathogen[ P03410] interacts with 1 human partners:{Q96LA8}  
5864 Pathogen[ P14075] interacts with 1 human partners:{Q96LA8}  
5865 Pathogen[ P0C206] interacts with 1 human partners:{Q96LA8}  
5866 Pathogen[ P03363] interacts with 1 human partners:{Q96LA8}

5867 [Cluster 534]GO:0004427+F molecular\_function [name] inorganic diphosphatase activity [def] "Catalysis of the reaction  
5868 Pathogen[ Q2Q067] interacts with 4 human partners:{Q9H2U2;Q9H008;Q15181;Q86TP1}  
5869 Pathogen[ P0C214] interacts with 3 human partners:{Q86TP1;Q9H008;Q15181}  
5870 Pathogen[ P03346] interacts with 4 human partners:{Q9H2U2;Q15181;Q9H008;Q86TP1}  
5871 Pathogen[ Q85601] interacts with 4 human partners:{Q9H008;Q86TP1;Q9H2U2;Q15181}  
5872 Pathogen[ P14079] interacts with 4 human partners:{Q86TP1;Q9H008;Q9H2U2;Q15181}  
5873 Pathogen[ P03383] interacts with 4 human partners:{Q9H2U2;Q15181;Q86TP1;Q9H008}  
5874 Pathogen[ P03410] interacts with 4 human partners:{Q86TP1;Q9H2U2;Q9H008;Q15181}  
5875 Pathogen[ P14075] interacts with 4 human partners:{Q9H008;Q9H2U2;Q15181;Q86TP1}  
5876 Pathogen[ P0C206] interacts with 4 human partners:{Q86TP1;Q9H2U2;Q9H008;Q15181}  
5877 Pathogen[ P03363] interacts with 4 human partners:{Q9H2U2;Q9H008;Q15181;Q86TP1}

5878 [Cluster 535]GO:0002020+F molecular\_function [name] protease binding [def] "Interacting selectively and non-covalently with any protease or peptidase." [GOC  
5879 Pathogen[ Q2Q067] interacts with 15 human  
partners:{O15519;Q7Z6K1;Q9UDY8;P01009;O95999;Q13158;Q14790;Q6P4R8;P08697;P78560;P50453;Q16186;P54098;P0CG48;P35237}

5880 Pathogen[ P0C214] interacts with 16 human  
partners:{P08697;P35237;P54098;Q16186;Q13158;Q9UDY8;P05121;O15519;P0CG48;O95999;Q6P4R8;P01008;P50453;P78560;Q7Z6K1;Q14790}

5881 Pathogen[ P03346] interacts with 16 human

5882 partners:{P54098;Q13158;Q9UDY8;P35237;P0CG48;Q7Z6K1;O15519;O95999;P78560;P04080;P51587;P50453;Q14790;P01009;Q6P4R8;Q16186}  
Pathogen[ Q85601] interacts with 18 human  
5883 partners:{Q13158;Q9UDY8;Q14790;P0CG48;P35237;P08697;P01009;P54098;Q6P4R8;P05121;P50453;P01008;Q7Z6K1;O95999;O15519;P51587;P78560;Q16186}  
Pathogen[ P14079] interacts with 14 human  
5884 partners:{P35237;P0CG48;O95999;O15519;Q7Z6K1;P04080;Q16186;P51587;P02686;Q14790;P50453;Q6P4R8;Q13158;P54098}  
Pathogen[ P03383] interacts with 13 human  
5885 partners:{Q7Z6K1;Q6P4R8;P08697;Q13158;P78560;P01009;P01008;P54098;O95999;P50453;P35237;P0CG48;Q16186}  
Pathogen[ P03410] interacts with 16 human  
5886 partners:{P05121;P0CG48;P78560;P02686;O15519;Q13158;O95999;P08697;P51587;Q6P4R8;P50453;Q16186;P01009;Q7Z6K1;P35237;P54098}  
Pathogen[ P14075] interacts with 12 human  
5887 partners:{Q6P4R8;P78560;P54098;Q16186;P01009;P0CG48;Q7Z6K1;Q13158;P08697;O95999;P50453;P35237}  
Pathogen[ P0C206] interacts with 18 human  
5888 partners:{P0CG48;P01008;Q16186;Q9UDY8;P51587;P78560;O95999;P54098;P35237;Q13158;P01009;P50453;O15519;Q14790;P05121;Q7Z6K1;Q6P4R8;P08697}  
Pathogen[ P03363] interacts with 9 human  
5889 partners:{Q16186;P35237;O15519;Q7Z6K1;P50453;Q13158;P54098;P78560;Q6P4R8}  
[Cluster 536]GO:0003968+F molecular\_function [name] RNA-directed RNA polymerase activity [def] "Catalysis of the reaction  
5890 Pathogen[ Q2Q067] interacts with 1 human partners:{P24928}  
5891 Pathogen[ P0C214] interacts with 1 human partners:{P24928}  
5892 Pathogen[ P03346] interacts with 1 human partners:{P24928}  
5893 Pathogen[ Q85601] interacts with 1 human partners:{P24928}  
5894 Pathogen[ P14079] interacts with 1 human partners:{P24928}  
5895 Pathogen[ P03383] interacts with 1 human partners:{P24928}  
5896 Pathogen[ P03410] interacts with 1 human partners:{P24928}  
5897 Pathogen[ P14075] interacts with 1 human partners:{P24928}  
5898 Pathogen[ P0C206] interacts with 1 human partners:{P24928}  
5899 Pathogen[ P03363] interacts with 1 human partners:{P24928}  
5900 [Cluster 537]GO:0016627+F molecular\_function [name] oxidoreductase activity, acting on the CH-CH group of donors [def] "Catalysis of an oxidation-reduction (redox) reaction in which a CH-CH group acts as a hydrogen or electron donor and reduces a hydrogen or electron acceptor." [GOC  
5901 Pathogen[ Q2Q067] interacts with 1 human partners:{P31040}  
5902 Pathogen[ P0C214] interacts with 1 human partners:{Q99643}  
5903 Pathogen[ P03346] interacts with 1 human partners:{P31040}  
5904 Pathogen[ Q85601] interacts with 1 human partners:{P31040}  
5905 Pathogen[ P14079] interacts with 1 human partners:{P31040}  
5906 Pathogen[ P03383] interacts with 1 human partners:{P31040}  
5907 Pathogen[ P03410] interacts with 2 human partners:{P31040;Q99643}  
5908 Pathogen[ P14075] interacts with 1 human partners:{P31040}  
5909 Pathogen[ P0C206] interacts with 1 human partners:{P31040}  
5910 Pathogen[ P03363] interacts with 1 human partners:{P31040}  
5911 [Cluster 538]GO:0046935+F molecular\_function [name] 1-phosphatidylinositol-3-kinase regulator activity [def] "Modulates the activity of the enzyme 1-phosphatidylinositol-3-kinase activity." [GOC  
5912 Pathogen[ Q2Q067] interacts with 3 human partners:{Q8WYR1;P27986;Q5UE93}  
5913 Pathogen[ P0C214] interacts with 3 human partners:{Q8WYR1;Q5UE93;P27986}  
5914 Pathogen[ P03346] interacts with 3 human partners:{Q8WYR1;Q5UE93;P27986}  
5915 Pathogen[ Q85601] interacts with 3 human partners:{P27986;Q8WYR1;Q5UE93}  
5916 Pathogen[ P14079] interacts with 2 human partners:{Q8WYR1;Q5UE93}  
5917 Pathogen[ P03383] interacts with 3 human partners:{P27986;Q8WYR1;Q5UE93}  
5918 Pathogen[ P03410] interacts with 3 human partners:{P27986;Q5UE93;Q8WYR1}  
5919 Pathogen[ P14075] interacts with 3 human partners:{Q8WYR1;Q5UE93;P27986}  
5920 Pathogen[ P0C206] interacts with 3 human partners:{P27986;Q5UE93;Q8WYR1}  
5921 Pathogen[ P03363] interacts with 3 human partners:{Q8WYR1;Q5UE93;P27986}  
5922 [Cluster 539]GO:0016407+F molecular\_function [name] acetyltransferase activity [def] "Catalysis of the transfer of an acetyl group to an acceptor molecule." [GOC  
5923 Pathogen[ Q2Q067] interacts with 4 human partners:{Q92831;P41227;Q92793;Q9BXJ9}  
5924 Pathogen[ P0C214] interacts with 4 human partners:{P41227;Q92793;Q9BXJ9;Q92831}  
5925 Pathogen[ P03346] interacts with 8 human  
partners:{Q8WYB5;Q92831;Q92794;P41227;Q6N069;Q9BXJ9;Q9H7Z6;Q92793}  
5926 Pathogen[ Q85601] interacts with 6 human  
partners:{Q6N069;Q9H7Z6;Q92831;P41227;Q9BXJ9;Q92793}  
5927 Pathogen[ P14079] interacts with 4 human partners:{P41227;Q92793;Q9BXJ9;Q6N069}  
5928 Pathogen[ P03383] interacts with 4 human partners:{Q92831;P41227;Q9BXJ9;Q92793}  
5929 Pathogen[ P03410] interacts with 5 human  
partners:{Q92831;P41227;Q92793;Q6N069;Q9BXJ9}  
5930 Pathogen[ P14075] interacts with 4 human partners:{P41227;Q92831;Q9BXJ9;Q92793}  
5931 Pathogen[ P0C206] interacts with 6 human  
partners:{P41227;Q92831;Q6N069;Q92793;Q9BXJ9;Q9H7Z6}

5932 Pathogen[ P03363] interacts with 5 human partners:{P41227;Q6N069;Q92831;Q92793;Q9BXJ9}

5933 [Cluster 540]GO:0004482+F molecular\_function [name] mRNA (guanine-N7-)-methyltransferase activity [def] "Catalysis of the reaction

5934 Pathogen[ Q2Q067] interacts with 1 human partners:{043148}

5935 Pathogen[ P0C214] interacts with 1 human partners:{043148}

5936 Pathogen[ P03346] interacts with 1 human partners:{043148}

5937 Pathogen[ Q85601] interacts with 1 human partners:{043148}

5938 Pathogen[ P14079] interacts with 1 human partners:{043148}

5939 Pathogen[ P03383] interacts with 1 human partners:{043148}

5940 Pathogen[ P03410] interacts with 1 human partners:{043148}

5941 Pathogen[ P14075] interacts with 1 human partners:{043148}

5942 Pathogen[ P0C206] interacts with 1 human partners:{043148}

5943 Pathogen[ P03363] interacts with 1 human partners:{043148}

5944 [Cluster 541]GO:0004822+F molecular\_function [name] isoleucine-tRNA ligase activity [def] "Catalysis of the reaction

5945 Pathogen[ Q2Q067] interacts with 1 human partners:{P41252}

5946 Pathogen[ P0C214] interacts with 2 human partners:{Q9NSE4;P41252}

5947 Pathogen[ P03346] interacts with 1 human partners:{P41252}

5948 Pathogen[ Q85601] interacts with 1 human partners:{P41252}

5949 Pathogen[ P14079] interacts with 2 human partners:{P41252;Q9NSE4}

5950 Pathogen[ P03383] interacts with 1 human partners:{P41252}

5951 Pathogen[ P03410] interacts with 2 human partners:{Q9NSE4;P41252}

5952 Pathogen[ P14075] interacts with 2 human partners:{P41252;Q9NSE4}

5953 Pathogen[ P0C206] interacts with 2 human partners:{Q9NSE4;P41252}

5954 Pathogen[ P03363] interacts with 1 human partners:{P41252}

5955 [Cluster 542]GO:0004091+F molecular\_function [name] carboxylesterase activity [def] "Catalysis of the reaction

5956 Pathogen[ Q2Q067] interacts with 3 human partners:{O14734;Q9Y305;Q86TX2}

5957 Pathogen[ P0C214] interacts with 5 human partners:{Q9Y305;Q86TX2;O00154;O14734;Q3I5F7}

5958 Pathogen[ P03346] interacts with 6 human partners:{Q6ZUV0;Q86TX2;Q3I5F7;Q9Y305;O14734;P10768}

5959 Pathogen[ Q85601] interacts with 4 human partners:{P10768;Q86TX2;O14734;Q9Y305}

5960 Pathogen[ P14079] interacts with 8 human partners:{P49753;Q9Y305;Q3I5F7;O14734;Q6ZUV0;Q86TX2;Q9HAT2;Q8WXI4}

5961 Pathogen[ P03383] interacts with 2 human partners:{Q9Y305;O14734}

5962 Pathogen[ P03410] interacts with 10 human partners:{Q9Y305;P10768;Q9HAT2;Q6ZUV0;Q8WXI4;O14734;O00154;Q3I5F7;Q86TX2;P49753}

5963 Pathogen[ P14075] interacts with 2 human partners:{O14734;Q9Y305}

5964 Pathogen[ P0C206] interacts with 7 human partners:{Q8WXI4;Q6ZUV0;Q86TX2;P10768;Q3I5F7;Q9Y305;O14734}

5965 Pathogen[ P03363] interacts with 4 human partners:{O14734;P10768;Q3I5F7;Q6ZUV0}

5966 [Cluster 543]GO:0043996+F molecular\_function [name] histone acetyltransferase activity (H4-K8 specific) [def] "Catalysis of the reaction

5967 Pathogen[ Q2Q067] interacts with 3 human partners:{Q96EZ8;P51610;Q7Z3B3}

5968 Pathogen[ P0C214] interacts with 2 human partners:{P51610;Q96EZ8}

5969 Pathogen[ P03346] interacts with 4 human partners:{Q96EZ8;P51610;Q7Z3B3;Q9H7Z6}

5970 Pathogen[ Q85601] interacts with 3 human partners:{Q9H7Z6;P51610;Q96EZ8}

5971 Pathogen[ P14079] interacts with 5 human partners:{P51610;Q7Z3B3;Q9P2N6;Q96EZ8;Q9H9L4}

5972 Pathogen[ P03383] interacts with 2 human partners:{P51610;Q96EZ8}

5973 Pathogen[ P03410] interacts with 5 human partners:{Q9P2N6;P51610;Q9H9L4;Q96EZ8;Q7Z3B3}

5974 Pathogen[ P14075] interacts with 3 human partners:{P51610;Q7Z3B3;Q96EZ8}

5975 Pathogen[ P0C206] interacts with 6 human partners:{Q9H9L4;Q96EZ8;P51610;Q9P2N6;Q7Z3B3;Q9H7Z6}

5976 Pathogen[ P03363] interacts with 3 human partners:{Q7Z3B3;Q96EZ8;P51610}

5977 [Cluster 544]GO:0043047+F molecular\_function [name] single-stranded telomeric DNA binding [def] "Interacting selectively and non-covalently with single-stranded telomere-associated DNA." [GOC

5978 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9H668;P22626}

5979 Pathogen[ P0C214] interacts with 2 human partners:{Q9H668;P22626}

5980 Pathogen[ P03346] interacts with 3 human partners:{P22626;Q9H668;Q9NUX5}

5981 Pathogen[ Q85601] interacts with 2 human partners:{P22626;Q9H668}

5982 Pathogen[ P14079] interacts with 3 human partners:{Q9H668;Q9NUX5;P22626}

5983 Pathogen[ P03383] interacts with 1 human partners:{P22626}

5984 Pathogen[ P03410] interacts with 3 human partners:{Q9NUX5;P22626;Q9H668}

5985 Pathogen[ P14075] interacts with 2 human partners:{P22626;Q9H668}

5986 Pathogen[ P0C206] interacts with 3 human partners:{Q9H668;P22626;Q9NUX5}

5987 Pathogen[ P03363] interacts with 3 human partners:{Q9H668;Q9NUX5;P22626}

5988 [Cluster 545]GO:0000981+F molecular\_function [name] sequence-specific DNA binding RNA polymerase II transcription factor activity [def] "Interacting selectively and non-covalently with a specific DNA sequence in order to modulate transcription by RNA polymerase II. The transcription factor may or may not also interact selectively with a protein or macromolecular complex." [GOC



5989 Pathogen[ Q2Q067] interacts with 16 human partners:{P40763;O14503;O00712;Q14814;P15976;Q92754;Q14934;O94993;P56693;P25791;Q13761;Q8TE85;Q01860;P35232;Q9Y651;Q02078}

5990 Pathogen[ P0C214] interacts with 15 human partners:{Q13761;P56693;Q02078;O14503;Q8TE85;Q14814;Q92754;O00712;P25791;Q14934;P40763;Q9Y651;P35232;Q01860;O94993}

5991 Pathogen[ P03346] interacts with 21 human partners:{Q02078;Q14814;O14901;Q8IYA7;P56693;O00712;Q8TE85;Q92754;Q01860;O14503;Q14934;P25791;P17542;Q9C0J9;P15976;Q13761;O94993;Q92481;P35232;Q9Y651;P40763}

5992 Pathogen[ Q85601] interacts with 16 human partners:{Q8TE85;Q02078;Q92754;P15976;Q9Y651;Q14814;P40763;O14503;Q14934;P25791;P56693;O94993;P35232;O00712;Q01860;Q13761}

5993 Pathogen[ P14079] interacts with 16 human partners:{Q02078;Q06413;Q8TE85;P15976;P35232;Q01860;Q14934;P25791;Q92754;P56693;Q14814;Q13761;O14503;O14901;O94993;O00712}

5994 Pathogen[ P03383] interacts with 12 human partners:{Q13761;O00712;O14503;Q14814;Q01860;Q8TE85;Q14934;P25791;P35232;Q92754;P56693;Q02078}

5995 Pathogen[ P03410] interacts with 15 human partners:{O14901;Q01860;P25791;Q14814;O00712;Q8TE85;P56693;Q13761;Q02078;O94993;P35232;P40763;Q14934;P15976;Q92754}

5996 Pathogen[ P14075] interacts with 12 human partners:{Q8TE85;Q01860;P56693;Q92754;O14503;P35232;P25791;Q14934;Q02078;O00712;Q14814;Q13761}

5997 Pathogen[ P0C206] interacts with 17 human partners:{Q8TE85;Q02078;Q01860;Q9C0J9;P56693;P15976;Q92754;O00712;O94993;P35232;P40763;P25791;Q14934;O14901;Q14814;Q13761;Q9Y651}

5998 Pathogen[ P03363] interacts with 17 human partners:{O14901;O00712;Q9C0J9;P25791;Q8TE85;P56693;Q14814;Q9Y651;P35232;O94993;Q14934;Q8IYA7;Q13761;Q01860;O14503;Q92754;Q02078}

5999 [Cluster 546]GO:0016846+F molecular\_function [name] carbon-sulfur lyase activity [def] "Catalysis of the elimination of hydrogen sulfide or substituted H2S." [EC

6000 Pathogen[ Q2Q067] interacts with 2 human partners:{Q7Z7K6;P32929}

6001 Pathogen[ P0C214] interacts with 2 human partners:{P32929;Q7Z7K6}

6002 Pathogen[ P03346] interacts with 2 human partners:{P32929;Q7Z7K6}

6003 Pathogen[ Q85601] interacts with 2 human partners:{Q7Z7K6;P32929}

6004 Pathogen[ P14079] interacts with 2 human partners:{P32929;Q7Z7K6}

6005 Pathogen[ P03383] interacts with 1 human partners:{Q7Z7K6}

6006 Pathogen[ P03410] interacts with 2 human partners:{P32929;Q7Z7K6}

6007 Pathogen[ P14075] interacts with 1 human partners:{Q7Z7K6}

6008 Pathogen[ P0C206] interacts with 2 human partners:{P32929;Q7Z7K6}

6009 Pathogen[ P03363] interacts with 1 human partners:{Q7Z7K6}

6010 [Cluster 547]GO:0000980+F molecular\_function [name] RNA polymerase II distal enhancer sequence-specific DNA binding [def] "Interacting selectively and non-covalently with a RNA polymerase II (Pol II) distal enhancer. In mammalian cells, enhancers are distal sequences that increase the utilization of some promoters, and can function in either orientation and in any location (upstream or downstream) relative to the core promoter." [GOC

6011 Pathogen[ Q2Q067] interacts with 7 human partners:{Q01543;Q92754;P23769;P56693;O95644;P15336;P17947}

6012 Pathogen[ P0C214] interacts with 9 human partners:{P15336;P23769;P56693;P17947;Q92754;Q01543;P05412;O95644;P16220}

6013 Pathogen[ P03346] interacts with 12 human partners:{P05412;P16220;Q9H2W2;P15336;P23769;P56693;O95644;Q92754;P17542;O95718;P17947;Q01543}

6014 Pathogen[ Q85601] interacts with 9 human partners:{Q92754;P23769;O95644;P16220;Q01543;P05412;P56693;P17947;P15336}

6015 Pathogen[ P14079] interacts with 8 human partners:{O95644;O95718;Q01543;P15336;Q92754;P56693;P05412;P23769}

6016 Pathogen[ P03383] interacts with 9 human partners:{P16220;O95644;P23769;Q01543;Q92754;P15336;P56693;P17947;P05412}

6017 Pathogen[ P03410] interacts with 9 human partners:{P17947;O95644;P16220;P56693;P05412;P23769;P15336;Q01543;Q92754}

6018 Pathogen[ P14075] interacts with 9 human partners:{P05412;Q01543;P23769;P56693;P15336;Q92754;P17947;P16220;O95644}

6019 Pathogen[ P0C206] interacts with 10 human partners:{P16220;P05412;P15336;P56693;Q92754;O95718;P17947;P23769;O95644;Q01543}

6020 Pathogen[ P03363] interacts with 9 human partners:{P17947;Q9H2W2;Q01543;P16220;P15336;P56693;O95644;P05412;Q92754}

6021 [Cluster 548]GO:0004176+F molecular\_function [name] ATP-dependent peptidase activity [def] "Catalysis of the reaction

6022 Pathogen[ Q2Q067] interacts with 2 human partners:{O76031;Q96SW2}

6023 Pathogen[ P0C214] interacts with 2 human partners:{O76031;Q96SW2}

6024 Pathogen[ P03346] interacts with 3 human partners:{O76031;Q96SW2;Q496Y0}

6025 Pathogen[ Q85601] interacts with 2 human partners:{Q96SW2;O76031}

6026 Pathogen[ P14079] interacts with 2 human partners:{O76031;Q96SW2}

6027 Pathogen[ P03383] interacts with 2 human partners:{Q96SW2;O76031}  
6028 Pathogen[ P03410] interacts with 3 human partners:{Q96SW2;O76031;Q496Y0}  
6029 Pathogen[ P14075] interacts with 2 human partners:{O76031;Q96SW2}  
6030 Pathogen[ P0C206] interacts with 3 human partners:{Q496Y0;Q96SW2;O76031}  
6031 Pathogen[ P03363] interacts with 2 human partners:{O76031;Q96SW2}  
6032 [Cluster 549]GO:0097110+F molecular\_function [name] scaffold protein binding [def]  
"Interacting selectively and non-covalently with a scaffold protein. Scaffold proteins  
are crucial regulators of many key signaling pathways. Although not strictly defined in  
function, they are known to interact and/or bind with multiple members of a signaling  
pathway, tethering them into complexes." [GOC  
6033 Pathogen[ Q2Q067] interacts with 8 human  
partners:{P19012;P15924;P78352;P05787;P13647;P08670;Q00987;P05783}  
6034 Pathogen[ P0C214] interacts with 8 human  
partners:{P05783;Q00987;P15924;P05787;P78352;P08670;P19012;P13647}  
6035 Pathogen[ P03346] interacts with 8 human  
partners:{P15924;P19012;P05783;P78352;P05787;Q00987;P08670;P13647}  
6036 Pathogen[ Q85601] interacts with 8 human  
partners:{P08670;P05787;P15924;P05783;P19012;P78352;P13647;Q00987}  
6037 Pathogen[ P14079] interacts with 5 human  
partners:{P15924;Q00987;P05783;P08670;P13647}  
6038 Pathogen[ P03383] interacts with 7 human  
partners:{P15924;P08670;P05783;P05787;P13647;P19012;P78352}  
6039 Pathogen[ P03410] interacts with 7 human  
partners:{P15924;P05787;P08670;Q00987;P13647;P78352;P05783}  
6040 Pathogen[ P14075] interacts with 7 human  
partners:{P05783;P19012;P08670;P78352;P13647;P05787;P15924}  
6041 Pathogen[ P0C206] interacts with 8 human  
partners:{P05787;P78352;P19012;P13647;P05783;P15924;P08670;Q00987}  
6042 Pathogen[ P03363] interacts with 6 human  
partners:{P05783;P78352;P05787;P15924;P13647;P08670}  
6043 [Cluster 550]GO:0008494+F molecular\_function [name] translation activator activity  
[def] "Any of a group of soluble proteins functioning in the activation of  
ribosome-mediated translation of mRNA into a polypeptide." [GOC  
6044 Pathogen[ Q2Q067] interacts with 4 human partners:{Q9H074;Q8NE71;P11940;Q71UM5}  
6045 Pathogen[ P0C214] interacts with 4 human partners:{Q71UM5;P11940;Q8NE71;Q9H074}  
6046 Pathogen[ P03346] interacts with 5 human  
partners:{Q71UM5;P11940;Q9H074;Q8NE71;Q9NQZ3}  
6047 Pathogen[ Q85601] interacts with 4 human partners:{Q71UM5;P11940;Q9H074;Q8NE71}  
6048 Pathogen[ P14079] interacts with 4 human partners:{Q9H074;P11940;Q8NE71;Q71UM5}  
6049 Pathogen[ P03383] interacts with 4 human partners:{Q8NE71;Q71UM5;P11940;Q9H074}  
6050 Pathogen[ P03410] interacts with 4 human partners:{Q8NE71;P11940;Q9H074;Q71UM5}  
6051 Pathogen[ P14075] interacts with 4 human partners:{Q9H074;P11940;Q8NE71;Q71UM5}  
6052 Pathogen[ P0C206] interacts with 4 human partners:{Q9H074;Q71UM5;Q8NE71;P11940}  
6053 Pathogen[ P03363] interacts with 7 human  
partners:{P11940;Q8N9W6;Q92904;Q71UM5;Q8NE71;Q9NQZ3;Q9H074}  
6054 [Cluster 551]GO:0008083+F molecular\_function [name] growth factor activity [def]  
"The function that stimulates a cell to grow or proliferate. Most growth factors have  
other actions besides the induction of cell growth or proliferation." [ISBN  
6055 Pathogen[ Q2Q067] interacts with 6 human  
partners:{P53370;Q6ZN28;Q9Y3E1;P69208;P06744;Q15276}  
6056 Pathogen[ P0C214] interacts with 5 human  
partners:{Q9Y3E1;P53370;P69208;P55789;Q6ZN28}  
6057 Pathogen[ P03346] interacts with 7 human  
partners:{P69208;P53370;Q9Y3E1;P51858;P06744;Q6ZN28;Q15276}  
6058 Pathogen[ Q85601] interacts with 6 human  
partners:{Q9Y3E1;P55145;P06744;P53370;Q6ZN28;P69208}  
6059 Pathogen[ P14079] interacts with 14 human  
partners:{P20809;Q15276;P69208;P06744;Q9H5N1;Q9NS71;Q9Y3E1;P53370;Q9GZZ8;P55789;P0414  
1;P13232;Q6ZN28;P29459}  
6060 Pathogen[ P03383] interacts with 6 human  
partners:{P53370;P69208;P06744;Q6ZN28;P55145;Q15276}  
6061 Pathogen[ P03410] interacts with 14 human  
partners:{P04141;P06744;Q9GZZ8;P20809;Q9NS71;P53370;Q9Y3E1;P69208;Q6ZN28;Q9H5N1;P5578  
9;P29459;Q15276;P13232}  
6062 Pathogen[ P14075] interacts with 9 human  
partners:{P06744;P69208;P55789;Q6ZN28;P53370;P20809;Q9GZZ8;Q9NS71;Q15276}  
6063 Pathogen[ P0C206] interacts with 10 human  
partners:{Q9Y3E1;P69208;P55789;P55145;Q6ZN28;P06744;P53370;P20809;Q9H5N1;Q15276}  
6064 Pathogen[ P03363] interacts with 7 human  
partners:{P51858;Q9Y3E1;P69208;P06744;Q6ZN28;Q15276;P53370}  
6065 [Cluster 552]GO:0019911+F molecular\_function [name] structural constituent of myelin  
sheath [def] "The action of a molecule that contributes to the structural integrity of  
the myelin sheath of a nerve." [GOC  
6066 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13875}  
6067 Pathogen[ P0C214] interacts with 1 human partners:{Q13875}  
6068 Pathogen[ P03346] interacts with 1 human partners:{Q13875}

6069 Pathogen[ Q85601] interacts with 1 human partners:{Q13875}

6070 Pathogen[ P14079] interacts with 2 human partners:{P02686;Q13875}

6071 Pathogen[ P03383] interacts with 1 human partners:{Q13875}

6072 Pathogen[ P03410] interacts with 2 human partners:{P02686;Q13875}

6073 Pathogen[ P14075] interacts with 1 human partners:{Q13875}

6074 Pathogen[ P0C206] interacts with 1 human partners:{Q13875}

6075 Pathogen[ P03363] interacts with 1 human partners:{Q13875}

6076 [Cluster 553]GO:0071987+F molecular\_function [name] WD40-repeat domain binding [def] "Interacting selectively and non-covalently with a WD40 repeat domain of a protein. The WD40 repeat is a short structural motif of approximately 40 amino acids, often terminating in a tryptophan-aspartic acid (W-D) dipeptide. Several of these repeats are combined to form a type of protein domain called the WD domain." [GOC]

6077 Pathogen[ Q2Q067] interacts with 1 human partners:{Q99459}

6078 Pathogen[ P0C214] interacts with 1 human partners:{Q99459}

6079 Pathogen[ P03346] interacts with 1 human partners:{Q99459}

6080 Pathogen[ Q85601] interacts with 1 human partners:{Q99459}

6081 Pathogen[ P14079] interacts with 1 human partners:{Q99459}

6082 Pathogen[ P03383] interacts with 1 human partners:{Q99459}

6083 Pathogen[ P03410] interacts with 1 human partners:{Q99459}

6084 Pathogen[ P14075] interacts with 1 human partners:{Q99459}

6085 Pathogen[ P0C206] interacts with 1 human partners:{Q99459}

6086 Pathogen[ P03363] interacts with 1 human partners:{Q99459}

6087 [Cluster 554]GO:0043560+F molecular\_function [name] insulin receptor substrate binding [def] "Interacting selectively and non-covalently with any of the insulin receptor substrate (IRS) proteins, adaptor proteins that bind to the transphosphorylated insulin and insulin-like growth factor receptors, are themselves phosphorylated and in turn recruit SH2 domain-containing signaling molecules to form a productive signaling complex." [PMID]

6088 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9NNW5;P27986}

6089 Pathogen[ P0C214] interacts with 3 human partners:{P62993;Q9NNW5;P27986}

6090 Pathogen[ P03346] interacts with 3 human partners:{P62993;P27986;Q9NNW5}

6091 Pathogen[ Q85601] interacts with 3 human partners:{P62993;Q9NNW5;P27986}

6092 Pathogen[ P14079] interacts with 2 human partners:{P62993;Q9NNW5}

6093 Pathogen[ P03383] interacts with 2 human partners:{P27986;Q9NNW5}

6094 Pathogen[ P03410] interacts with 3 human partners:{P27986;P62993;Q9NNW5}

6095 Pathogen[ P14075] interacts with 2 human partners:{P27986;Q9NNW5}

6096 Pathogen[ P0C206] interacts with 3 human partners:{Q9NNW5;P27986;P62993}

6097 Pathogen[ P03363] interacts with 2 human partners:{P27986;Q9NNW5}

6098 [Cluster 555]GO:0071568+F molecular\_function [name] UFM1 conjugating enzyme activity [def] "Catalysis of the covalent attachment of the ubiquitin-like protein UFM1 to other proteins or other substrate molecules." [GOC]

6099 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9Y3C8;O94874}

6100 Pathogen[ P0C214] interacts with 1 human partners:{O94874}

6101 Pathogen[ P03346] interacts with 2 human partners:{Q9Y3C8;O94874}

6102 Pathogen[ Q85601] interacts with 1 human partners:{O94874}

6103 Pathogen[ P14079] interacts with 2 human partners:{O94874;Q9Y3C8}

6104 Pathogen[ P03383] interacts with 2 human partners:{Q9Y3C8;O94874}

6105 Pathogen[ P03410] interacts with 2 human partners:{Q9Y3C8;O94874}

6106 Pathogen[ P14075] interacts with 2 human partners:{Q9Y3C8;O94874}

6107 Pathogen[ P0C206] interacts with 2 human partners:{Q9Y3C8;O94874}

6108 Pathogen[ P03363] interacts with 2 human partners:{Q9Y3C8;O94874}

6109 [Cluster 556]GO:0044020+F molecular\_function [name] histone methyltransferase activity (H4-R3 specific) [def] "Catalysis of the reaction

6110 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9NVM4;Q96LA8;Q99873}

6111 Pathogen[ P0C214] interacts with 3 human partners:{Q9NVM4;Q99873;Q96LA8}

6112 Pathogen[ P03346] interacts with 3 human partners:{Q99873;Q9NVM4;Q96LA8}

6113 Pathogen[ Q85601] interacts with 3 human partners:{Q9NVM4;Q99873;Q96LA8}

6114 Pathogen[ P14079] interacts with 3 human partners:{Q96LA8;Q99873;Q9NVM4}

6115 Pathogen[ P03383] interacts with 2 human partners:{Q99873;Q96LA8}

6116 Pathogen[ P03410] interacts with 3 human partners:{Q96LA8;Q9NVM4;Q99873}

6117 Pathogen[ P14075] interacts with 2 human partners:{Q96LA8;Q99873}

6118 Pathogen[ P0C206] interacts with 3 human partners:{Q99873;Q96LA8;Q9NVM4}

6119 Pathogen[ P03363] interacts with 3 human partners:{Q96LA8;Q9NVM4;Q99873}

6120 [Cluster 557]GO:0005125+F molecular\_function [name] cytokine activity [def] "Functions to control the survival, growth, differentiation and effector function of tissues and cells." [ISBN]

6121 Pathogen[ Q2Q067] interacts with 3 human partners:{P40222;Q12904;P06744}

6122 Pathogen[ P0C214] interacts with 3 human partners:{Q12904;P40222;P43490}

6123 Pathogen[ P03346] interacts with 3 human partners:{Q12904;P06744;P40222}

6124 Pathogen[ Q85601] interacts with 2 human partners:{P06744;P40222}

6125 Pathogen[ P14079] interacts with 15 human partners:{P40222;P20809;Q96DZ9;P43490;P06744;Q8NEV9;P04141;P13232;Q8IU54;Q96QR1;O95760;Q8TAZ6;P29459;Q12904;Q6EBC2}

6126 Pathogen[ P03383] interacts with 3 human partners:{Q12904;P06744;P40222}

6127 Pathogen[ P03410] interacts with 17 human partners:{P04141;Q53HR8;Q96QR1;Q96DZ9;P06744;Q8TAZ6;P20809;Q6EBC2;O95760;Q12904;P43490}

0;Q969D9;Q8NEV9;P40222;Q9NRJ3;P29459;P13232}

6128 Pathogen[ P14075] interacts with 5 human partners:{P06744;P40222;Q96QR1;Q12904;P20809}

6129 Pathogen[ P0C206] interacts with 7 human partners:{P43490;P06744;P40222;P20809;Q53HR8;Q12904;Q8TAZ6}

6130 Pathogen[ P03363] interacts with 2 human partners:{P06744;P40222}

6131 [Cluster 558]GO:0001786+F molecular\_function [name] phosphatidylserine binding [def] "Interacting selectively and non-covalently with phosphatidylserine, a class of glycopospholipids in which a phosphatidyl group is esterified to the hydroxyl group of L-serine." [ISBN

6132 Pathogen[ Q2Q067] interacts with 3 human partners:{Q86VW0;Q9HCH5;O95810}

6133 Pathogen[ P0C214] interacts with 3 human partners:{O95810;Q86VW0;Q9HCH5}

6134 Pathogen[ P03346] interacts with 4 human partners:{Q9HCH5;Q86VW0;Q99829;O95810}

6135 Pathogen[ Q85601] interacts with 3 human partners:{Q9HCH5;O95810;Q86VW0}

6136 Pathogen[ P14079] interacts with 6 human partners:{Q99829;Q9HCH5;Q9Y6U3;O76027;O95810;Q86VW0}

6137 Pathogen[ P03383] interacts with 2 human partners:{Q9HCH5;O95810}

6138 Pathogen[ P03410] interacts with 7 human partners:{Q9HCH5;Q0JRZ9;O76027;Q9Y6U3;Q99829;O95810;Q86VW0}

6139 Pathogen[ P14075] interacts with 2 human partners:{Q9HCH5;O95810}

6140 Pathogen[ P0C206] interacts with 4 human partners:{O95810;Q86VW0;Q99829;Q9HCH5}

6141 Pathogen[ P03363] interacts with 4 human partners:{Q99829;Q9HCH5;Q86VW0;O95810}

6142 [Cluster 559]GO:0001849+F molecular\_function [name] complement component C1q binding [def] "Interacting selectively and non-covalently with the C1q component of the classical complement cascade." [GOC

6143 Pathogen[ Q2Q067] interacts with 2 human partners:{P27797;Q07021}

6144 Pathogen[ P0C214] interacts with 1 human partners:{P27797}

6145 Pathogen[ P03346] interacts with 2 human partners:{Q07021;P27797}

6146 Pathogen[ Q85601] interacts with 2 human partners:{P27797;Q07021}

6147 Pathogen[ P14079] interacts with 1 human partners:{Q07021}

6148 Pathogen[ P03383] interacts with 2 human partners:{Q07021;P27797}

6149 Pathogen[ P03410] interacts with 2 human partners:{Q07021;P27797}

6150 Pathogen[ P14075] interacts with 2 human partners:{Q07021;P27797}

6151 Pathogen[ P0C206] interacts with 2 human partners:{P27797;Q07021}

6152 Pathogen[ P03363] interacts with 2 human partners:{Q07021;P27797}

6153 [Cluster 560]GO:0010861+F molecular\_function [name] thyroid hormone receptor activator activity [def] "A receptor activator activity that binds to, thyroid hormone receptor in a ligand-dependent manner and enhances ligand-induced transcriptional activity of the receptor." [GOC

6154 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9HD15}

6155 Pathogen[ P0C214] interacts with 1 human partners:{Q9HD15}

6156 Pathogen[ P03346] interacts with 1 human partners:{Q9HD15}

6157 Pathogen[ Q85601] interacts with 1 human partners:{Q9HD15}

6158 Pathogen[ P14079] interacts with 1 human partners:{Q9HD15}

6159 Pathogen[ P03383] interacts with 1 human partners:{Q9HD15}

6160 Pathogen[ P03410] interacts with 1 human partners:{Q9HD15}

6161 Pathogen[ P14075] interacts with 1 human partners:{Q9HD15}

6162 Pathogen[ P0C206] interacts with 1 human partners:{Q9HD15}

6163 Pathogen[ P03363] interacts with 1 human partners:{Q9HD15}

6164 [Cluster 561]GO:0070260+F molecular\_function [name] 5'-tyrosyl-DNA phosphodiesterase activity [def] "Catalysis of the hydrolysis of 5'-phosphotyrosyl groups formed as covalent intermediates (in DNA backbone breakage) between DNA topoisomerase II and DNA." [PMID

6165 Pathogen[ Q2Q067] interacts with 1 human partners:{O95551}

6166 Pathogen[ P0C214] interacts with 1 human partners:{O95551}

6167 Pathogen[ P03346] interacts with 1 human partners:{O95551}

6168 Pathogen[ Q85601] interacts with 1 human partners:{O95551}

6169 Pathogen[ P14079] interacts with 1 human partners:{O95551}

6170 Pathogen[ P03383] interacts with 1 human partners:{O95551}

6171 Pathogen[ P03410] interacts with 1 human partners:{O95551}

6172 Pathogen[ P14075] interacts with 1 human partners:{O95551}

6173 Pathogen[ P0C206] interacts with 1 human partners:{O95551}

6174 Pathogen[ P03363] interacts with 1 human partners:{O95551}

6175 [Cluster 562]GO:0004827+F molecular\_function [name] proline-tRNA ligase activity [def] "Catalysis of the reaction

6176 Pathogen[ Q2Q067] interacts with 1 human partners:{P07814}

6177 Pathogen[ P0C214] interacts with 2 human partners:{Q7L3T8;P07814}

6178 Pathogen[ P03346] interacts with 1 human partners:{P07814}

6179 Pathogen[ Q85601] interacts with 1 human partners:{P07814}

6180 Pathogen[ P14079] interacts with 2 human partners:{Q7L3T8;P07814}

6181 Pathogen[ P03383] interacts with 2 human partners:{P07814;Q7L3T8}

6182 Pathogen[ P03410] interacts with 2 human partners:{Q7L3T8;P07814}

6183 Pathogen[ P14075] interacts with 2 human partners:{Q7L3T8;P07814}

6184 Pathogen[ P0C206] interacts with 2 human partners:{P07814;Q7L3T8}

6185 Pathogen[ P03363] interacts with 2 human partners:{Q7L3T8;P07814}

6186 [Cluster 563]GO:0009922+F molecular\_function [name] fatty acid elongase activity [def]

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" Catalysis of the reaction
6187 Pathogen[ Q2Q067] interacts with 2 human partners: {Q9H5J4;Q9BW60}
6188 Pathogen[ P0C214] interacts with 3 human partners: {Q9NXB9;Q9NYP7;Q9BW60}
6189 Pathogen[ P03346] interacts with 2 human partners: {Q9BW60;Q9H5J4}
6190 Pathogen[ Q85601] interacts with 2 human partners: {Q9BW60;Q9H5J4}
6191 Pathogen[ P14079] interacts with 2 human partners: {Q9BW60;Q9H5J4}
6192 Pathogen[ P03383] interacts with 2 human partners: {Q9BW60;Q9H5J4}
6193 Pathogen[ P03410] interacts with 2 human partners: {Q9H5J4;Q9BW60}
6194 Pathogen[ P14075] interacts with 2 human partners: {Q9H5J4;Q9BW60}
6195 Pathogen[ P0C206] interacts with 2 human partners: {Q9H5J4;Q9BW60}
6196 Pathogen[ P03363] interacts with 1 human partners: {Q9H5J4}
6197 [Cluster 564]GO:0005518+F molecular_function [name] collagen binding [def]
"Interacting selectively and non-covalently with collagen, a group of fibrous proteins of
very high tensile strength that form the main component of connective tissue in animals.
Collagen is highly enriched in glycine (some regions are 33% glycine) and proline,
occurring predominantly as 3-hydroxyproline (about 20%)." [GOC]
6198 Pathogen[ Q2Q067] interacts with 3 human partners: {Q13485;P84022;O15105}
6199 Pathogen[ P0C214] interacts with 4 human partners: {P84022;P10124;Q13485;O15105}
6200 Pathogen[ P03346] interacts with 3 human partners: {O15105;P84022;Q13485}
6201 Pathogen[ Q85601] interacts with 3 human partners: {P84022;O15105;Q13485}
6202 Pathogen[ P14079] interacts with 3 human partners: {Q9GZZ8;P10124;O15105}
6203 Pathogen[ P03383] interacts with 4 human partners: {Q13485;O15105;P84022;P10124}
6204 Pathogen[ P03410] interacts with 5 human
partners: {P84022;Q9GZZ8;P10124;Q13485;O15105}
6205 Pathogen[ P14075] interacts with 5 human
partners: {Q13485;O15105;Q9GZZ8;P10124;P84022}
6206 Pathogen[ P0C206] interacts with 4 human partners: {P84022;O15105;Q13485;P10124}
6207 Pathogen[ P03363] interacts with 3 human partners: {O15105;P84022;Q13485}
6208 [Cluster 565]GO:0043169+F molecular_function [name] cation binding [def]
"Interacting selectively and non-covalently with cations, charged atoms or groups of
atoms with a net positive charge." [GOC]
6209 Pathogen[ Q2Q067] interacts with 1 human partners: {P35573}
6210 Pathogen[ P0C214] interacts with 4 human partners: {Q04446;Q9H227;P35573;P16278}
6211 Pathogen[ P03346] interacts with 3 human partners: {P35573;P16278;Q8WVB3}
6212 Pathogen[ Q85601] interacts with 2 human partners: {P35573;Q04446}
6213 Pathogen[ P14079] interacts with 8 human
partners: {P16278;P04066;P35475;P06280;P54803;P35573;P17050;Q8WVB3}
6214 Pathogen[ P03383] interacts with 1 human partners: {P35573}
6215 Pathogen[ P03410] interacts with 6 human
partners: {P54803;P04066;Q04446;P35573;P16278;Q8WVB3}
6216 Pathogen[ P14075] interacts with 1 human partners: {P35573}
6217 Pathogen[ P0C206] interacts with 4 human partners: {Q04446;Q8WVB3;P16278;P35573}
6218 Pathogen[ P03363] interacts with 2 human partners: {Q8WVB3;P35573}
6219 [Cluster 566]GO:0016805+F molecular_function [name] dipeptidase activity [def]
" Catalysis of the hydrolysis of a dipeptide." [http]
6220 Pathogen[ Q2Q067] interacts with 1 human partners: {Q12765}
6221 Pathogen[ P0C214] interacts with 2 human partners: {Q96FV2;Q12765}
6222 Pathogen[ P03346] interacts with 1 human partners: {Q12765}
6223 Pathogen[ Q85601] interacts with 1 human partners: {Q12765}
6224 Pathogen[ P14079] interacts with 4 human partners: {Q96FV2;Q96KP4;Q0VDG4;Q12765}
6225 Pathogen[ P03383] interacts with 1 human partners: {Q12765}
6226 Pathogen[ P03410] interacts with 3 human partners: {Q0VDG4;Q96FV2;Q12765}
6227 Pathogen[ P14075] interacts with 2 human partners: {Q12765;Q96FV2}
6228 Pathogen[ P0C206] interacts with 2 human partners: {Q12765;Q96FV2}
6229 Pathogen[ P03363] interacts with 1 human partners: {Q12765}
6230 [Cluster 567]GO:0008607+F molecular_function [name] phosphorylase kinase regulator
activity [def] "Modulation of the activity of the enzyme phosphorylase kinase." [EC]
6231 Pathogen[ Q2Q067] interacts with 3 human partners: {Q9H9T3;O95163;Q96EB1}
6232 Pathogen[ P0C214] interacts with 3 human partners: {Q9H9T3;Q96EB1;O95163}
6233 Pathogen[ P03346] interacts with 3 human partners: {O95163;Q9H9T3;Q96EB1}
6234 Pathogen[ Q85601] interacts with 3 human partners: {Q9H9T3;Q96EB1;O95163}
6235 Pathogen[ P14079] interacts with 3 human partners: {O95163;Q96EB1;Q9H9T3}
6236 Pathogen[ P03383] interacts with 3 human partners: {O95163;Q96EB1;Q9H9T3}
6237 Pathogen[ P03410] interacts with 3 human partners: {Q9H9T3;Q96EB1;O95163}
6238 Pathogen[ P14075] interacts with 3 human partners: {Q96EB1;O95163;Q9H9T3}
6239 Pathogen[ P0C206] interacts with 3 human partners: {Q9H9T3;O95163;Q96EB1}
6240 Pathogen[ P03363] interacts with 3 human partners: {Q96EB1;O95163;Q9H9T3}
6241 [Cluster 568]GO:0052815+F molecular_function [name] medium-chain acyl-CoA hydrolase
activity [def] "Catalysis of the reaction
6242 Pathogen[ Q2Q067] interacts with 1 human partners: {O14734}
6243 Pathogen[ P0C214] interacts with 1 human partners: {O14734}
6244 Pathogen[ P03346] interacts with 1 human partners: {O14734}
6245 Pathogen[ Q85601] interacts with 1 human partners: {O14734}
6246 Pathogen[ P14079] interacts with 1 human partners: {O14734}
6247 Pathogen[ P03383] interacts with 1 human partners: {O14734}
6248 Pathogen[ P03410] interacts with 1 human partners: {O14734}

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6249 Pathogen[ P14075] interacts with 1 human partners:{O14734}

6250 Pathogen[ P0C206] interacts with 1 human partners:{O14734}

6251 Pathogen[ P03363] interacts with 1 human partners:{O14734}

6252 [Cluster 569]GO:0048027+F molecular\_function [name] mRNA 5'-UTR binding [def] "Interacting selectively and non-covalently with the 5' untranslated region of an mRNA molecule." [GOC

6253 Pathogen[ Q2Q067] interacts with 4 human partners:{O00425;Q9Y6M1;P62263;P21399}

6254 Pathogen[ P0C214] interacts with 5 human partners:{P62263;O00425;Q9NZI8;Q9Y6M1;P21399}

6255 Pathogen[ P03346] interacts with 5 human partners:{Q9Y6M1;O00425;Q9NZI8;P62263;P21399}

6256 Pathogen[ Q85601] interacts with 4 human partners:{P21399;P62263;Q9Y6M1;O00425}

6257 Pathogen[ P14079] interacts with 4 human partners:{P21399;P62263;Q9Y6M1;O00425}

6258 Pathogen[ P03383] interacts with 2 human partners:{O00425;P62263}

6259 Pathogen[ P03410] interacts with 4 human partners:{P21399;O00425;P62263;Q9Y6M1}

6260 Pathogen[ P14075] interacts with 2 human partners:{O00425;P62263}

6261 Pathogen[ P0C206] interacts with 4 human partners:{P62263;Q9Y6M1;P21399;O00425}

6262 Pathogen[ P03363] interacts with 4 human partners:{O00425;Q9Y6M1;Q9NZI8;P62263}

6263 [Cluster 570]GO:0051020+F molecular\_function [name] GTPase binding [def] "Interacting selectively and non-covalently with a GTPase, any enzyme that catalyzes the hydrolysis of GTP." [GOC

6264 Pathogen[ Q2Q067] interacts with 4 human partners:{Q8N1I0;Q13439;P62879;Q12983}

6265 Pathogen[ P0C214] interacts with 4 human partners:{P62879;Q12983;Q13439;Q8N1I0}

6266 Pathogen[ P03346] interacts with 6 human partners:{Q13439;Q8IZD9;Q12983;P62879;Q9BZ29;Q8N1I0}

6267 Pathogen[ Q85601] interacts with 4 human partners:{P62879;Q13439;Q12983;Q8N1I0}

6268 Pathogen[ P14079] interacts with 4 human partners:{Q8IZD9;Q13439;Q12983;Q8N1I0}

6269 Pathogen[ P03383] interacts with 3 human partners:{P62879;Q13439;Q12983}

6270 Pathogen[ P03410] interacts with 5 human partners:{Q12983;Q8IZD9;Q13439;Q8N1I0;P62879}

6271 Pathogen[ P14075] interacts with 3 human partners:{Q12983;P62879;Q13439}

6272 Pathogen[ P0C206] interacts with 5 human partners:{Q13439;Q8IZD9;P62879;Q12983;Q8N1I0}

6273 Pathogen[ P03363] interacts with 4 human partners:{P62879;Q13439;Q8N1I0;Q8IZD9}

6274 [Cluster 571]GO:0005522+F molecular\_function [name] profilin binding [def] "Interacting selectively and non-covalently with profilin, an actin-binding protein that forms a complex with G-actin and prevents it from polymerizing to form F-actin." [ISBN

6275 Pathogen[ Q2Q067] interacts with 1 human partners:{O43516}

6276 Pathogen[ P0C214] interacts with 2 human partners:{Q9UI08;O43516}

6277 Pathogen[ P03346] interacts with 2 human partners:{O43516;Q9UI08}

6278 Pathogen[ Q85601] interacts with 1 human partners:{O43516}

6279 Pathogen[ P14079] interacts with 4 human partners:{O43516;P50552;O60610;Q9UI08}

6280 Pathogen[ P03383] interacts with 1 human partners:{O43516}

6281 Pathogen[ P03410] interacts with 4 human partners:{Q9UI08;O60610;O43516;P50552}

6282 Pathogen[ P14075] interacts with 1 human partners:{O43516}

6283 Pathogen[ P0C206] interacts with 2 human partners:{O43516;Q9UI08}

6284 Pathogen[ P03363] interacts with 2 human partners:{Q9UI08;O43516}

6285 [Cluster 572]GO:0000983+F molecular\_function [name] RNA polymerase II core promoter sequence-specific DNA binding transcription factor activity [def] "Interacting selectively and non-covalently with a specific DNA sequence in an RNA polymerase II (Pol II) core promoter, the region composed of the transcription start site and binding sites for transcription factors of the Pol II basal transcription machinery, in order to modulate transcription by Pol II. The transcription factor may or may not also interact selectively with a protein or macromolecular complex." [GOC

6286 Pathogen[ Q2Q067] interacts with 4 human partners:{Q9NQ87;P11831;Q9Y5J3;P42224}

6287 Pathogen[ P0C214] interacts with 4 human partners:{Q9Y5J3;P11831;P42224;Q9NQ87}

6288 Pathogen[ P03346] interacts with 5 human partners:{P11831;Q9Y5J3;Q9NQ87;P42224;Q92481}

6289 Pathogen[ Q85601] interacts with 4 human partners:{P11831;Q9NQ87;P42224;Q9Y5J3}

6290 Pathogen[ P14079] interacts with 4 human partners:{Q06413;Q9Y5J3;P42224;Q9NQ87}

6291 Pathogen[ P03383] interacts with 2 human partners:{P11831;Q9NQ87}

6292 Pathogen[ P03410] interacts with 3 human partners:{Q9Y5J3;P11831;Q9NQ87}

6293 Pathogen[ P14075] interacts with 2 human partners:{P11831;Q9NQ87}

6294 Pathogen[ P0C206] interacts with 4 human partners:{Q9NQ87;Q9Y5J3;P11831;P42224}

6295 Pathogen[ P03363] interacts with 3 human partners:{Q9Y5J3;Q9NQ87;P11831}

6296 [Cluster 573]GO:0017136+F molecular\_function [name] NAD-dependent histone deacetylase activity [def] "Catalysis of the reaction

6297 Pathogen[ Q2Q067] interacts with 2 human partners:{Q8IXJ6;Q8N6T7}

6298 Pathogen[ P0C214] interacts with 2 human partners:{Q8N6T7;Q8IXJ6}

6299 Pathogen[ P03346] interacts with 2 human partners:{Q8IXJ6;Q8N6T7}

6300 Pathogen[ Q85601] interacts with 2 human partners:{Q8IXJ6;Q8N6T7}

6301 Pathogen[ P14079] interacts with 2 human partners:{Q8N6T7;Q8IXJ6}

6302 Pathogen[ P03383] interacts with 1 human partners:{Q8N6T7}

6303 Pathogen[ P03410] interacts with 2 human partners:{Q8IXJ6;Q8N6T7}

6304 Pathogen[ P14075] interacts with 1 human partners:{Q8N6T7}

6305 Pathogen[ P0C206] interacts with 2 human partners:{Q8N6T7;Q8IXJ6}

6306 Pathogen[ P03363] interacts with 1 human partners:{Q8N6T7}  
6307 [Cluster 574]GO:0043425+F molecular\_function [name] bHLH transcription factor binding  
[def] "Interacting selectively and non-covalently with any of the basic Helix-Loop-Helix  
(bHLH) superfamily of transcription factors, important regulatory components in  
transcriptional networks of many developmental pathways." [PMID  
6308 Pathogen[ Q2Q067] interacts with 9 human  
partners:{O00233;O14503;O96004;P63279;P08047;P25791;P22415;Q15853;P15923}  
6309 Pathogen[ P0C214] interacts with 9 human  
partners:{P63279;O14503;P15923;P25791;Q15853;O96004;P22415;O00233;P08047}  
6310 Pathogen[ P03346] interacts with 12 human  
partners:{P15923;P63279;P08047;O14503;Q15853;O43680;O00233;O96004;O00327;P25791;Q9C0J  
9;P22415}  
6311 Pathogen[ Q85601] interacts with 10 human  
partners:{Q15853;O00327;O14503;O96004;P63279;P08047;P22415;O00233;P25791;P15923}  
6312 Pathogen[ P14079] interacts with 8 human  
partners:{P63279;Q15853;O96004;O00233;P15923;P25791;O14503;P22415}  
6313 Pathogen[ P03383] interacts with 9 human  
partners:{P08047;O00233;P15923;O14503;O96004;P25791;Q15853;P63279;P22415}  
6314 Pathogen[ P03410] interacts with 8 human  
partners:{O96004;P25791;O00233;P15923;P22415;Q15853;P63279;P08047}  
6315 Pathogen[ P14075] interacts with 9 human  
partners:{O00233;P63279;P15923;O14503;O96004;Q15853;P25791;P22415;P08047}  
6316 Pathogen[ P0C206] interacts with 9 human  
partners:{Q9C0J9;O96004;Q15853;O00327;P22415;P08047;P15923;P25791;O00233}  
6317 Pathogen[ P03363] interacts with 10 human  
partners:{Q15853;Q9C0J9;P25791;P15923;O00327;O96004;P22415;P63279;P08047;O14503}  
6318 [Cluster 575]GO:0003774+F molecular\_function [name] motor activity [def] "Catalysis  
of movement along a polymeric molecule such as a microfilament or microtubule, coupled to  
the hydrolysis of a nucleoside triphosphate." [GOC  
6319 Pathogen[ Q2Q067] interacts with 18 human  
partners:{P63172;Q9P2M7;Q9UKX2;Q8TF09;P60660;Q14204;P63167;Q9NP97;Q14203;Q13561;O0013  
9;P12883;Q07866;Q13409;P35579;Q96FJ2;P51808;O14576}  
6320 Pathogen[ P0C214] interacts with 32 human  
partners:{Q07866;A7E2Y1;Q9UKX2;O00159;Q9Y2K3;Q14203;O14645;Q9UM54;Q8TF09;P11055;P1464  
9;P60660;Q14204;P51808;O00139;P35580;P13535;P12882;P12883;Q9P2M7;P63172;O14576;Q96FJ2  
;Q7Z406;Q9NP97;P13533;Q92614;Q9Y623;Q13409;Q13561;P35749;P63167}  
6321 Pathogen[ P03346] interacts with 24 human  
partners:{Q96FJ2;P60660;O14576;Q96JP2;Q12840;P35579;Q92614;O00139;P51808;Q14204;Q1420  
3;Q8TF09;P14649;Q8IZS6;P63172;Q9ULV0;Q13409;Q9UKX2;O14645;P63167;Q9NP97;Q9P2M7;Q07866  
;Q13561}  
6322 Pathogen[ Q85601] interacts with 35 human  
partners:{Q13409;Q92614;Q9NP97;P51808;Q96JP2;P13533;P35579;P14649;Q14204;Q8IZS6;Q1420  
3;P63172;O96015;Q12840;Q9UKX2;Q9Y2K3;O00159;P12882;Q7Z406;P11055;O14576;P35749;P12883  
;O14645;P35580;Q9UM54;P13535;P60660;Q9Y623;Q8TF09;P63167;Q07866;O00139;Q9P2M7;Q13561}  
6323 Pathogen[ P14079] interacts with 27 human  
partners:{Q8TF09;P35579;P63172;P51808;Q07866;Q92614;Q96FJ2;Q12840;Q14204;Q9UKX2;Q9UM5  
4;P14649;Q9GZS0;Q9NP97;Q9UI46;O00139;P60660;Q13409;Q13561;P12883;Q9P2M7;O14645;P63167  
;O14576;Q8IZS6;O96015;Q14203}  
6324 Pathogen[ P03383] interacts with 14 human  
partners:{P51808;Q96FJ2;P63172;Q14203;Q9NP97;Q9UKX2;Q9P2M7;Q07866;P12883;P35580;P3557  
9;Q8TF09;Q13561;P63167}  
6325 Pathogen[ P03410] interacts with 37 human  
partners:{Q9Y6G9;Q14204;Q8IZS6;P51808;Q9UKX2;Q07866;Q13409;Q9NP97;Q13561;O00139;Q8TF0  
9;Q9UI46;Q92614;Q9ULV0;Q0VF96;P63172;O00159;P35579;P63167;Q8TCX1;Q12840;Q9UM54;O14576  
;P12882;P12883;P12883;P35580;P14649;P13533;Q9P2M7;Q96JP2;P60660;O14645;Q9GZS0;P13535;O43237;  
O96015;Q14203}  
6326 Pathogen[ P14075] interacts with 13 human  
partners:{Q9NP97;Q9UKX2;P51808;Q13561;Q8TF09;P63172;O00139;Q96FJ2;P35579;Q14203;Q0786  
6;Q9P2M7;P63167}  
6327 Pathogen[ P0C206] interacts with 35 human  
partners:{O14645;Q9UM54;Q9NP97;O14576;P13533;Q9Y623;P63167;P60660;Q8TF09;P11055;O4323  
7;Q13409;P14649;Q14204;P12883;P51808;O00159;Q96JP2;Q9Y6G9;P12882;Q8IZS6;P35749;P35579  
;Q92614;Q9UKX2;Q12840;O00139;Q13561;Q9P2M7;Q14203;P63172;P35580;P13535;O96015;Q07866}  
6328 Pathogen[ P03363] interacts with 26 human  
partners:{P63167;P14649;P35579;Q9GZS0;Q13561;Q9UKX2;Q96JP2;Q14204;Q07866;Q8IZS6;Q8TF0  
9;P63172;O14645;Q13409;P51808;Q92614;P60660;Q9UI46;Q9NP97;O00139;O43237;Q9P2M7;Q96FJ2  
;Q14203;O14576;Q12840}  
6329 [Cluster 576]GO:0003729+F molecular\_function [name] mRNA binding [def] "Interacting  
selectively and non-covalently with messenger RNA (mRNA), an intermediate molecule  
between DNA and protein. mRNA includes UTR and coding sequences, but does not contain  
introns." [GOC  
6330 Pathogen[ Q2Q067] interacts with 33 human  
partners:{Q15631;Q9UBB5;Q99497;P46782;Q9UBU9;Q9H6T0;P62277;O60535;P42766;Q9BZI7;P4975  
6;Q16630;P27797;P38159;Q9Y2T7;Q06787;Q9Y5S9;Q96QR8;Q9H9Z2;O95232;Q8WVV9;O43809;P23396  
;Q9H4D5;Q14493;Q9H0G5;P26651;P62854;Q96QD9;P60842;P18124;A7MD48;Q07352}  
6331 Pathogen[ P0C214] interacts with 35 human

6332 partners:{Q9BZI7;Q9H6T0;P42766;Q06787;P38159;P62854;P60842;Q86XF0;Q96QR8;Q9Y5S9;P23396;O60535;Q99497;Q9NZI8;O95232;Q16630;P62277;Q07352;P00374;Q14493;O43809;Q9Y2T7;Q9H0G5;Q9H9Z2;P26651;Q15631;P27797;Q96QD9;Q9UBB5;Q9H4D5;P46782;P18124;Q8WVV9;P49756;Q9UBU9}  
Pathogen[ P03346] interacts with 44 human

6333 partners:{Q9Y5S9;Q9BZI7;Q96QR8;Q06787;P62277;Q8NHU6;Q8WVV9;P0DJ3;Q9NZI8;Q96J94;P60842;A7MD48;P52756;Q9BWF3;P46782;Q92879;Q9H0G5;P62854;Q14493;O95232;Q15631;P49756;P42766;Q96QD9;Q9H6T0;Q07352;Q99497;P27797;O43809;P23396;Q9H4D5;Q9Y2T7;Q9UBU9;O60535;P51513;Q9H9Z2;P38159;P26651;Q99729;Q9NQ94;Q9UBB5;P62995;P18124;Q16630}  
Pathogen[ Q85601] interacts with 29 human

6334 partners:{Q9BZI7;Q99497;P49756;Q96QR8;Q9Y2T7;P62854;Q9UBU9;P23396;Q07352;Q06787;Q9H4D5;P27797;P26651;Q9H0G5;O95232;O60535;P42766;Q96QD9;P60842;P62277;P46782;P38159;Q9H9Z2;Q9UBB5;Q14493;Q15631;P18124;O43809;Q9Y5S9}  
Pathogen[ P14079] interacts with 35 human

6335 partners:{O43809;Q86XF0;P00374;Q8WVV9;P60842;P23396;Q9H4D5;Q96QR8;Q9UBB5;Q9Y5S9;Q8NHU6;Q99497;Q9UBU9;P18124;P42766;Q9H9Z2;Q9NQ94;P46782;Q9Y2T7;P62854;Q15631;P49756;Q9H6T0;A7MD48;P62277;Q9BZI7;Q16630;Q9H0G5;Q14493;Q06787;O95232;Q96QD9;P52756;Q07352;P38159}  
Pathogen[ P03383] interacts with 30 human

6336 partners:{P42766;Q9UBU9;P62854;Q9H9Z2;Q9H4D5;Q9Y5S9;P18124;Q06787;Q07352;Q15631;Q9UBB5;Q9Y2T7;P38159;O60535;P62277;A7MD48;Q9H6T0;Q8WVV9;Q14493;P46782;Q96QD9;P49756;P26651;O43809;O95232;Q9H0G5;Q96QR8;P23396;P27797;Q9BZI7}  
Pathogen[ P03410] interacts with 36 human

6337 partners:{Q99497;O60535;P18124;Q8NHU6;Q9Y5S9;P00374;Q14493;Q9H0G5;Q9UBB5;P23396;P26651;Q8WVV9;Q9BZI7;Q96QD9;O43809;Q9H4D5;P62277;P49756;P62854;Q86XF0;P46782;Q9UBU9;P60842;O95232;Q9H6T0;A7MD48;Q9H9Z2;Q15631;P42766;Q06787;Q16630;Q9Y2T7;Q96QR8;P38159;Q07352;P27797}  
Pathogen[ P14075] interacts with 30 human

6338 partners:{P42766;Q96QR8;O95232;O43809;P62277;P49756;Q14493;P26651;P38159;Q9H9Z2;Q9UBB5;P18124;Q96QD9;Q15631;P46782;Q9Y2T7;P27797;P23396;Q06787;Q07352;A7MD48;Q9Y5S9;Q9UBU9;Q9H0G5;Q9H4D5;Q8WVV9;P62854;O60535;Q9H6T0;Q9BZI7}  
Pathogen[ P0C206] interacts with 33 human

6339 partners:{Q9BZI7;P18124;P62854;P27797;P26651;Q9UBB5;Q06787;O95232;Q96QR8;Q15631;Q8WVV9;Q99497;O43809;Q9H0G5;P46782;Q9H9Z2;Q9H4D5;P38159;P23396;Q9UBU9;Q16630;O60535;P42766;Q9H6T0;Q96QD9;P62277;A7MD48;Q07352;P49756;P60842;Q9Y2T7;Q14493;Q9Y5S9}  
Pathogen[ P03363] interacts with 46 human

6340 partners:{Q06787;P23396;Q9H4D5;P0DJ3;P42766;Q8NHU6;O60535;O95232;Q92879;Q9H0G5;Q96QR8;Q15631;Q16630;P49756;Q9UBU9;Q9BWF3;Q99729;Q96QD9;Q07352;O43809;P38159;P46782;Q15717;Q9NZI8;P27797;Q9H9Z2;P60842;P26651;P62277;Q9BZI7;Q96J94;P05455;Q5SZQ8;A7MD48;P51513;P62995;Q14493;P62854;Q9Y2T7;P18124;Q9H6T0;Q9Y5S9;Q8WVV9;Q9NQ94;Q9UBB5;P52756}  
[Cluster 577]GO:0043142+F molecular\_function [name] single-stranded DNA-dependent ATPase activity [def] "Catalysis of the reaction

6341 Pathogen[ Q2Q067] interacts with 1 human partners:{Q06609}

6342 Pathogen[ P0C214] interacts with 1 human partners:{Q06609}

6343 Pathogen[ P03346] interacts with 1 human partners:{Q06609}

6344 Pathogen[ Q85601] interacts with 1 human partners:{Q06609}

6345 Pathogen[ P14079] interacts with 1 human partners:{Q06609}

6346 Pathogen[ P03383] interacts with 1 human partners:{Q06609}

6347 Pathogen[ P03410] interacts with 1 human partners:{Q06609}

6348 Pathogen[ P14075] interacts with 1 human partners:{Q06609}

6349 Pathogen[ P0C206] interacts with 1 human partners:{Q06609}

6350 Pathogen[ P03363] interacts with 1 human partners:{Q06609}

6351 [Cluster 578]GO:0005198+F molecular\_function [name] structural molecule activity [def] "The action of a molecule that contributes to the structural integrity of a complex or assembly within or outside a cell." [GOC

6352 Pathogen[ Q2Q067] interacts with 109 human

partners:{P19012;Q9Y2J2;P35908;O75161;P02538;P02545;P35321;P20700;P78559;Q9NSB2;P07196;Q14980;P41219;O14579;P53675;Q15323;P08779;I6L9F6;Q6A162;P08729;P78385;Q9UJG1;Q8IUC1;Q7Z3Z0;O75935;P23490;O76013;Q99456;Q8N1N4;P13646;Q7RTS7;Q9H307;P14136;Q3LI83;A6NCN2;Q9NSB4;Q03252;Q14152;Q14532;Q7Z3Y9;P15924;Q7Z3Y7;Q5BJF6;P12035;P08727;Q9C075;P22528;Q9H7C4;O95678;O15061;P04264;Q8N1A0;Q86Y46;Q9BYR6;Q9UBF2;Q9BZW7;P05787;O43236;P11171;Q04695;P35527;Q9UBC9;Q00610;Q14533;P22531;Q7Z3Y8;P78386;Q14525;P48668;Q3SY84;Q9BYR8;O43790;O76009;Q5TZA2;Q14CN4;O76014;P13645;P53618;P19013;P13647;Q8N9Z9;P09497;O76015;Q6KB66;Q14244;Q2M2I5;P35606;Q9Y678;P07476;P08670;Q9BYR7;P04259;P09496;Q9UH77;P02533;Q01546;P27816;P35900;Q16352;O76011;P05783;Q7Z794;Q5XKE5;P07197;Q9NRR3;Q6A163;Q92764;Q96CW5;P17661}

6353 Pathogen[ P0C214] interacts with 110 human

partners:{Q9H7C4;Q9NRR3;Q14CN4;O76011;P08729;Q14532;O75935;Q2M2I5;O75161;P35321;P12035;O76013;Q8IUC1;O15061;P05783;P35527;Q86Y46;Q7Z3Y8;P16157;P02538;P04264;P13646;P02533;Q7Z3Y7;P07476;O76015;Q9BYR7;Q7Z794;O14579;P15924;Q9BYR8;Q14152;Q3LI83;O95678;P53618;P41219;Q16352;P35606;Q9NSB2;Q3SY84;Q13515;Q9H307;P05787;P14136;P20700;Q96CW5;P35908;Q5XKE5;P08779;P27816;P23490;P78386;Q14980;Q8N1A0;P48668;P53675;Q14533;Q15124;Q03252;Q9UBF2;Q04695;Q14244;P78385;P22531;Q8N1N4;P08670;A6NCN2;Q9BZW7;P19012;P04259;P78559;I6L9F6;Q9C075;Q8N9Z9;P08727;P43243;Q99456;Q15323;Q6A162;P09497;O76009;P13647;Q7RTS7;Q5BJF6;P09496;Q6KB66;P07197;Q7Z3Z0;P02545;Q9UJG1;Q7Z3Y9;Q01546;Q9Y678;P19013;O43236;O43790;Q6A163;Q9UBC9;O76014;Q92764;P07196;Q9UH77;P11171;Q5TZA2;Q9NSB4;Q9BYR6;P13645;P35900;P17661;Q14525}

6354 Pathogen[ P03346] interacts with 118 human



- partners: {P13646; Q6KB66; P15924; Q8N1N4; P19012; P08729; P02538; Q86Y46; Q9C075; Q3SY84; Q16352; Q14525; P35321; P07196; P05783; Q7Z3Y8; P08779; P08727; Q9UH77; Q15323; Q13515; P35527; P20700; Q9NRR3; Q7Z3Z0; O75935; Q5XKE5; P43243; Q9NSB4; Q9H307; P05787; O76009; O95678; P19013; Q9Y678; P07476; Q15061; P53618; P14136; P48668; Q14532; Q8IUC1; P78386; O76014; A6NCN2; Q14579; Q96CW5; Q14152; Q9UBC9; P09496; P16157; P02545; Q14980; P35908; Q7Z794; P07197; O75161; Q2M2I5; P11171; Q04695; Q9NSB2; P17661; O43236; Q7Z3Y9; Q9UPM8; P02533; Q8N9Z9; P22531; O43790; P13645; Q9Y4G6; P23490; P58107; O43491; Q9UBF2; Q9UI47; P41219; P53675; Q14533; Q9BYR8; P78559; P12035; Q8N1A0; O76011; Q5BJF6; Q9Y2J2; P11137; P08670; P27816; Q03252; Q7RTS7; Q9H7C4; P09497; O76015; P35900; I6L9F6; Q14244; Q7Z3Y7; P13647; Q5TZA2; P22528; Q6A163; Q99456; Q6A162; P04259; P04264; Q14CN4; Q9BZW7; Q3LI83; P35606; Q01546; Q9BYR6; Q92764; P78385; Q00610; Q9UJG1; Q9BYR7; O76013}
- 6355 Pathogen[ Q85601] interacts with 111 human  
partners: {P13646; Q8N1N4; P20700; P08729; O75161; P02538; Q14525; P53675; P35321; P78386; P27816; P02545; Q9Y2J2; P16157; Q00610; O76013; P02533; P09496; Q9NSB4; Q5XKE5; P08779; Q3SY84; P17661; O14579; P07196; Q9H307; Q14244; P08670; P05787; Q9BYR8; P19013; O75935; O76009; Q14533; Q7Z3Y8; Q2M2I5; O95678; P14136; Q9UPM8; Q03252; P11171; Q5BJF6; P04259; Q96CW5; Q7Z3Y9; Q6A162; Q7Z3Y7; P15924; Q7Z794; Q9NRR3; Q13515; Q14CN4; Q92764; Q7Z3Z0; Q04695; P05783; P04264; Q15124; Q01546; Q9UBF2; P22531; O43790; Q9Y678; P19012; P48668; Q9C075; P13645; Q7RTS7; P12035; P41219; Q15323; Q14980; Q14152; P53618; P09497; P78385; P08727; P07197; O76011; I6L9F6; Q9BYR7; Q8IUC1; P13647; A6NCN2; Q5TZA2; Q14532; P35527; Q8N9Z9; Q6A163; P35908; O76015; P78559; P35900; Q16352; Q99456; Q3LI83; P35606; Q9UH77; P23490; Q9UBC9; Q9BYR6; Q8N1A0; Q9NSB2; Q9UJG1; Q86Y46; Q9H7C4; O76014; O43236; Q6KB66; Q15061; Q9BZW7}
- 6356 Pathogen[ P14079] interacts with 149 human  
partners: {P04083; Q14980; Q14525; P22528; O75161; Q9Y2J2; P48668; Q5TZA2; P22531; P35900; Q8N7P3; Q3SY84; C9JDP6; P08779; Q00610; Q9BYR8; P35908; Q7Z794; P04279; Q9H7C4; Q9NRR3; P41219; P61570; Q02383; Q5D862; P11171; Q14532; Q99456; P56750; Q9BYR6; Q7Z3Z0; O76011; P07476; Q9UI47; P15924; P35606; A6NM45; Q9UPM8; Q9NSB4; Q9UKH3; Q902F9; Q7RTS7; Q9Y678; P13646; A6NCN2; Q86U28; Q9BUE6; P08729; P68363; Q14244; P16157; Q15323; Q15124; O71037; Q01546; P35527; Q9BYR7; Q9Y4G6; Q04695; A6NFC5; P61550; Q9H307; Q8N1A0; Q00501; P07196; Q03252; P02533; P35611; P43243; Q15061; Q9C075; P14136; Q3LI83; P78559; Q8N6F1; P78385; Q5BJF6; P13645; Q7Z3Y9; Q6A162; Q8N1N4; Q69384; Q7Z3Y8; O75425; P20930; Q2M2I5; P07197; Q8IUC1; Q92764; Q7Z3Y7; P48681; P35321; Q6A163; Q9UBF2; Q86Y46; P23490; P35663; Q9UJG1; O95292; Q96B33; O76013; Q6KB66; O76015; P78386; Q14533; P09497; O76014; Q5XKE5; Q92817; Q9NX77; Q9UBC9; Q14CN4; P05783; Q8N8A4; O42043; Q9UH77; P20700; Q902F8; O14579; Q13515; P53675; P61567; P08670; Q16625; P04264; P11137; P61566; Q8N9Z9; P58107; O43790; O95678; Q9UEY8; P17661; P04259; P02545; O75935; P08727; O15259; Q9NSB2; P12035; Q14152; P27816; P09496; O76009; O43236; P13647; Q96CW5; P43320; Q9BZW7}
- 6357 Pathogen[ P03383] interacts with 106 human  
partners: {Q14244; O95678; P02545; P23490; P15924; P08729; Q8N1N4; Q86Y46; Q16352; P35321; P02533; P19013; Q00610; P08727; O14579; Q8IUC1; Q13515; Q9NSB4; Q9NSB2; Q9C075; P53618; Q8N1A0; Q9Y678; P08670; Q14CN4; P17661; Q5XKE5; O43236; Q99456; Q7Z3Z0; Q96CW5; Q6A162; Q9BYR6; Q2M2I5; Q9BZW7; P14136; P13645; O76011; Q7Z3Y8; O76014; Q14152; P53675; P05783; O15061; Q9BYR7; Q14525; P78386; Q14533; P35527; Q9UBC9; P08779; Q5TZA2; P27816; P41219; P05787; Q04695; P20700; Q01546; Q7Z794; Q9BYR8; P22531; Q9NRR3; P12035; P07197; P07476; Q9UH77; P02538; P07196; Q9UBF2; O75935; Q5BJF6; Q9UJG1; Q3SY84; P04264; P48668; P22528; Q15323; P35908; Q14980; Q9H307; Q9H7C4; P13647; Q03252; O75161; O76015; P78385; P78559; O76009; P13646; P04259; P19012; Q6A163; P09497; Q7RTS7; Q92764; Q8N9Z9; Q6KB66; A6NCN2; Q14532; Q7Z3Y9; Q3LI83; I6L9F6; Q7Z3Y7; P35900; O43790; O76013}
- 6358 Pathogen[ P03410] interacts with 161 human  
partners: {Q00610; P78385; P13645; P09496; Q9UH77; O95292; Q9UPM8; P13646; O71037; P43320; Q9BYR7; Q14CN4; P23490; P02533; P15924; Q96B33; P61550; P61565; Q9UKH3; O76011; P11137; Q15323; Q6A163; P22531; Q14525; Q9UEY8; Q9UBC9; Q8N1N4; Q9NX77; Q69384; Q8N7P3; P27816; P17661; O15061; Q9UJG1; P04264; P61567; O15259; Q902F9; P12035; P16157; P22528; Q7Z3Z0; Q16352; P35527; Q9NRR3; Q3LI83; P19013; O00501; P35606; Q14533; P58107; A6NCN2; P20700; Q13515; Q8N1A0; O95678; Q92764; P05787; Q3SY84; P35321; O14579; Q15124; O75161; Q8N6F1; O76015; Q5D862; Q7Z794; P48668; Q6A162; P02538; Q9NSB4; P56747; Q14152; P07196; Q9H7C4; P41219; P08779; P11171; P20930; Q902F8; Q14980; Q8IUC1; P61570; C9JDP6; P43243; Q8N9Z9; P35908; O43236; A6NFC5; P35663; O43491; Q9NPE6; Q03252; Q5TZA2; Q9Y678; Q9Y2J2; P02545; Q14532; P09497; Q02383; Q9C075; P78386; Q9BVA1; P53618; Q2M2I5; Q9Y4G6; Q5BJF6; O75935; Q7RTS7; P87889; P04259; P61566; Q04695; Q5XKE5; O76013; Q9BZW7; P08670; Q16625; P78559; O42043; P63135; P68363; P04279; O43790; Q9UI47; Q9BYR8; Q99456; Q01546; P35900; P14136; Q7Z3Y8; Q86U28; A6NM45; Q86Y46; Q6KB66; Q96CW5; Q9NSB2; P08729; P56750; P53675; O75425; P13647; Q9BYR6; Q14244; Q92817; I6L9F6; O76014; P08727; P05783; P35611; O95471; Q8N8A4; Q7Z3Y9; O76009; P07197; Q9UBF2; Q9H307; Q9BUE6; P07476; Q7Z3Y7}
- 6359 Pathogen[ P14075] interacts with 109 human  
partners: {Q9H307; Q92764; P48668; A6NFC5; O76014; Q7Z3Z0; P08729; P09497; Q16352; Q7Z3Y9; P35321; Q7Z3Y7; Q9Y2J2; Q9UBC9; P09496; P05783; P08727; Q9C075; O43236; P53675; Q9UBF2; Q8IUC1; Q9NSB4; P78559; P20700; Q9NSB2; O43790; P17661; P14136; Q13515; P19012; P23490; P13645; P12035; Q5TZA2; O15061; A6NCN2; Q9UJG1; P78385; Q86Y46; Q6A163; Q9H7C4; P9BYR6; P41219; Q9BYR8; Q15323; P02545; Q04695; P35908; Q5BJF6; Q7Z3Y8; Q14532; O76013; O75935; P08779; O75161; P22531; P04264; P13646; Q5XKE5; P53618; P04259; Q99456; O76015; Q9UH77; Q9NRR3; P08670; P22528; P78386; O76009; Q9Y678; P07197; Q7RTS7; P13647; Q14533; I6L9F6; P07196; Q9BZW7; Q7Z794; O95678; O76011; P35900; Q9BYR7; Q14525; Q14CN4; P07476; Q14980; Q8N1N4; P02538; P35527; Q01546; P27816; P02533; Q6A162; Q8N9Z9; Q6KB66; Q3SY84; Q96CW5; Q00610; P19013; P11171; Q03252; Q14152; Q2M2I5; Q14244; P05787; P15924; Q3LI83; O14579}
- 6360 Pathogen[ P0C206] interacts with 130 human  
partners: {Q9BYR7; P05787; Q9NSB2; O14579; Q14525; Q69384; Q9Y678; P53675; Q7Z3Y9; P17661; P08779; P07196; P35527; Q6A162; P78385; O15061; Q5BJF6; Q9UBC9; P02538; P53618; O75161; Q5TZA2; P08727; P41219; Q96CW5; Q13515; P22531; Q9NRR3; P04264; Q2M2I5; P13645; Q3LI83; P78559; Q9H307; P08729; Q00610; P19012; Q86U28; I6L9F6; Q6KB66; Q7Z794; P78386; Q9BYR6; Q9BZW7; O95678; Q9UI47; Q14533; Q

03252;Q9UJG1;O43236;P09496;Q15124;Q7Z3Z0;O76014;Q14244;Q9C075;O95292;Q14532;O76013;P23490;P19013;P16157;P11137;P27816;Q9UPM8;P13647;Q6A163;P35321;Q8N9Z9;O76011;P48668;P09497;P14136;P35606;Q9UKH3;A6NFC5;Q14152;O43491;P61570;P05783;Q8IUC1;Q14CN4;Q01546;P61565;O76009;Q7Z3Y8;Q7Z3Y7;P15924;Q9H7C4;P43243;O76015;P02545;Q9UBF2;Q5XKE5;P20700;Q8N1N4;Q3SY84;P35663;Q16181;Q9NSB4;P08670;P04259;Q16352;Q8N1A0;Q7RTS7;Q14980;P87889;O75935;Q9BYR8;Q15323;P12035;P02533;Q9UH77;Q86Y46;P07476;P13646;P35900;Q99456;Q9Y2J2;O75425;P35908;P11171;Q902F8;Q04695;O43790;Q9BUE6;Q92764;P07197;P22528;A6NCN2}

6361 Pathogen[ P03363] interacts with 123 human partners: {Q5BJF6;P78385;P05783;P02533;P11137;Q8N9Z9;P08779;O75161;P02538;P22531;P07197;Q14533;Q9BYR6;Q14244;P13645;Q14525;Q16352;Q9UI47;P35321;O15061;P02545;Q9BYR7;P78559;P16157;Q92764;Q7RTS7;O76014;Q86Y46;Q14980;P20700;P23490;Q9Y678;Q3SY84;Q3LI83;Q9UBC9;Q99456;P68363;Q9H307;Q14152;A6NCN2;O76009;Q00610;O14579;O76011;P48668;Q7Z3Y8;P53618;Q15323;P05787;Q7Z3Y9;Q9Y4G6;P15924;P35908;Q9H7C4;Q03252;Q5TZA2;Q9C075;P35900;Q6A162;Q13748;P07196;P08727;P27816;O43790;Q8IUC1;O76013;P13647;Q14532;P04259;Q14CN4;P35527;O95678;I6L9F6;Q6A163;P22528;P08670;P17661;Q9BYR8;P11171;O75935;P14136;Q9NSB2;P43243;P08729;P41219;P07476;Q7Z7M0;O43491;Q7Z3Z0;Q7Z3Y7;P12035;P35606;Q9UH77;Q9UBF2;P78386;Q9NRR3;Q9BZW7;P19013;O15259;P13646;O76015;Q6KB66;Q01546;Q99719;Q8N1N4;P04264;Q9UJG1;P09497;Q5XKE5;Q7Z794;P53675;Q92817;Q2M2I5;O43236;Q9Y2J2;Q9NSB4;P35663;Q8N1A0;P58107;Q13515;Q04695;Q96CW5;Q9UPM8}

6362 [Cluster 579]GO:0017091+F molecular\_function [name] AU-rich element binding [def] "Interacting selectively and non-covalently with a region of RNA containing frequent adenine and uridine bases." [GOC

6363 Pathogen[ Q2Q067] interacts with 6 human partners: {Q06265;Q9NPD3;O43809;P26651;Q07352;Q96B26}

6364 Pathogen[ P0C214] interacts with 7 human partners: {P31483;Q07352;O43809;Q9NPD3;P26651;Q06265;Q96B26}

6365 Pathogen[ P03346] interacts with 8 human partners: {Q96B26;P31483;Q07352;O43809;Q06265;P26651;Q9NPD3;Q86XN8}

6366 Pathogen[ Q85601] interacts with 6 human partners: {Q9NPD3;Q07352;P26651;Q06265;Q96B26;O43809}

6367 Pathogen[ P14079] interacts with 7 human partners: {O43809;P41238;Q9NPD3;Q96B26;Q06265;Q07352;P31483}

6368 Pathogen[ P03383] interacts with 6 human partners: {Q06265;Q07352;Q9NPD3;Q96B26;P26651;O43809}

6369 Pathogen[ P03410] interacts with 8 human partners: {Q06265;P41238;P26651;O43809;Q96B26;P31483;Q9NPD3;Q07352}

6370 Pathogen[ P14075] interacts with 6 human partners: {O43809;Q9NPD3;P26651;Q96B26;Q07352;Q06265}

6371 Pathogen[ P0C206] interacts with 9 human partners: {P31483;P26651;Q9NPD3;O43809;Q96B26;Q06265;Q86XN8;Q07352;P41238}

6372 Pathogen[ P03363] interacts with 8 human partners: {Q96B26;Q13151;Q9NPD3;Q07352;O43809;Q15717;P26651;P31483}

6373 [Cluster 580]GO:0042301+F molecular\_function [name] phosphate ion binding [def] "Interacting selectively and non-covalently with phosphate." [GOC

6374 Pathogen[ Q2Q067] interacts with 1 human partners: {Q04206}

6375 Pathogen[ P0C214] interacts with 2 human partners: {P00480;Q04206}

6376 Pathogen[ P03346] interacts with 2 human partners: {Q04206;Q9Y2J0}

6377 Pathogen[ Q85601] interacts with 2 human partners: {P00480;Q04206}

6378 Pathogen[ P14079] interacts with 1 human partners: {P00480}

6379 Pathogen[ P03383] interacts with 1 human partners: {Q04206}

6380 Pathogen[ P03410] interacts with 3 human partners: {Q04206;Q9Y2J0;P00480}

6381 Pathogen[ P14075] interacts with 1 human partners: {Q04206}

6382 Pathogen[ P0C206] interacts with 3 human partners: {Q9Y2J0;Q04206;P00480}

6383 Pathogen[ P03363] interacts with 1 human partners: {Q04206}

6384 [Cluster 581]GO:0070975+F molecular\_function [name] FHA domain binding [def] "Interacting selectively and non-covalently with a FHA domain of a protein. The FHA domain is a phosphopeptide recognition domain found in many regulatory proteins, and consists of approximately 80-100 amino acid residues folded into an 11-stranded beta sandwich." [GOC

6385 Pathogen[ Q2Q067] interacts with 1 human partners: {Q14676}

6386 Pathogen[ P0C214] interacts with 1 human partners: {Q14676}

6387 Pathogen[ P03346] interacts with 1 human partners: {Q14676}

6388 Pathogen[ Q85601] interacts with 1 human partners: {Q14676}

6389 Pathogen[ P14079] interacts with 1 human partners: {Q14676}

6390 Pathogen[ P03383] interacts with 1 human partners: {Q14676}

6391 Pathogen[ P03410] interacts with 1 human partners: {Q14676}

6392 Pathogen[ P14075] interacts with 1 human partners: {Q14676}

6393 Pathogen[ P0C206] interacts with 1 human partners: {Q14676}

6394 Pathogen[ P03363] interacts with 1 human partners: {Q14676}

6395 [Cluster 582]GO:0031432+F molecular\_function [name] titin binding [def] "Interacting selectively and non-covalently with titin, any of a family of giant proteins found in striated and smooth muscle. In striated muscle, single titin molecules span half the sarcomere, with their N- and C-termini in the Z-disc and M-line, respectively." [GOC

6396 Pathogen[ Q2Q067] interacts with 1 human partners: {Q15327}

6397 Pathogen[ P0C214] interacts with 2 human partners: {Q15327;Q86SG2}

6398 Pathogen[ P03346] interacts with 2 human partners: {Q86SG2;Q15327}

6399 Pathogen[ Q85601] interacts with 2 human partners:{Q86SG2;Q15327}  
6400 Pathogen[ P14079] interacts with 3 human partners:{Q86SG2;Q15327;O15273}  
6401 Pathogen[ P03383] interacts with 1 human partners:{Q15327}  
6402 Pathogen[ P03410] interacts with 3 human partners:{Q15327;O15273;Q86SG2}  
6403 Pathogen[ P14075] interacts with 1 human partners:{Q15327}  
6404 Pathogen[ POC206] interacts with 2 human partners:{Q15327;Q86SG2}  
6405 Pathogen[ P03363] interacts with 2 human partners:{Q15327;Q86SG2}  
6406 [Cluster 583]GO:0060090+F molecular\_function [name] binding, bridging [def] "The binding activity of a molecule that brings together two or more molecules, permitting those molecules to function in a coordinated way." [GOC  
6407 Pathogen[ Q2Q067] interacts with 2 human partners:{075340;Q15628}  
6408 Pathogen[ P0C214] interacts with 2 human partners:{Q15628;075340}  
6409 Pathogen[ P03346] interacts with 2 human partners:{075340;Q15628}  
6410 Pathogen[ Q85601] interacts with 2 human partners:{075340;Q15628}  
6411 Pathogen[ P14079] interacts with 2 human partners:{075340;Q15628}  
6412 Pathogen[ P03383] interacts with 1 human partners:{Q15628}  
6413 Pathogen[ P03410] interacts with 2 human partners:{Q15628;075340}  
6414 Pathogen[ P14075] interacts with 1 human partners:{Q15628}  
6415 Pathogen[ POC206] interacts with 2 human partners:{075340;Q15628}  
6416 Pathogen[ P03363] interacts with 2 human partners:{075340;Q15628}  
6417 [Cluster 584]GO:0043027+F molecular\_function [name] cysteine-type endopeptidase inhibitor activity involved in apoptotic process [def] "Stops, prevents or reduces the activity of a cysteine-type endopeptidase involved in the apoptotic process." [GOC  
6418 Pathogen[ Q2Q067] interacts with 3 human partners:{043715;P50453;O15392}  
6419 Pathogen[ P0C214] interacts with 4 human partners:{043715;P98170;P50453;O15392}  
6420 Pathogen[ P03346] interacts with 6 human partners:{O15392;P98170;P50453;Q92481;O43715;O95379}  
6421 Pathogen[ Q85601] interacts with 4 human partners:{043715;P98170;O15392;P50453}  
6422 Pathogen[ P14079] interacts with 5 human partners:{P09327;O15392;O43715;O95379;P50453}  
6423 Pathogen[ P03383] interacts with 2 human partners:{043715;P50453}  
6424 Pathogen[ P03410] interacts with 4 human partners:{O15392;O95379;O43715;P50453}  
6425 Pathogen[ P14075] interacts with 2 human partners:{P50453;O43715}  
6426 Pathogen[ POC206] interacts with 5 human partners:{P98170;P50453;O43715;O15392;O95379}  
6427 Pathogen[ P03363] interacts with 4 human partners:{P50453;O95379;P98170;O43715}  
6428 [Cluster 585]GO:0005057+F molecular\_function [name] receptor signaling protein activity [def] "Conveys a signal from an upstream receptor or intracellular signal transducer, converting the signal into a form where it can ultimately trigger a change in the state or activity of a cell." [GOC  
6429 Pathogen[ Q2Q067] interacts with 6 human partners:{Q92636;Q99933;Q9UER7;Q99717;Q15797;O95429}  
6430 Pathogen[ P0C214] interacts with 7 human partners:{Q9UER7;Q99933;O95429;Q99717;Q92636;Q15797;Q99704}  
6431 Pathogen[ P03346] interacts with 9 human partners:{Q15797;Q99717;Q9UER7;Q99704;Q9BWF2;Q12788;Q92636;O95429;Q99933}  
6432 Pathogen[ Q85601] interacts with 7 human partners:{Q92636;Q15797;Q9UER7;Q99933;Q99717;Q9BWF2;O95429}  
6433 Pathogen[ P14079] interacts with 8 human partners:{P13164;Q99704;Q9BWF2;O95429;Q92636;Q15797;Q9UER7;Q99933}  
6434 Pathogen[ P03383] interacts with 5 human partners:{Q15797;Q99717;Q9UER7;Q99933;O95429}  
6435 Pathogen[ P03410] interacts with 9 human partners:{Q99933;Q99717;Q9BWF2;Q9UER7;O95429;Q99704;Q15797;Q92636;Q12788}  
6436 Pathogen[ P14075] interacts with 4 human partners:{Q99933;Q99717;Q9UER7;O95429}  
6437 Pathogen[ POC206] interacts with 8 human partners:{Q99933;Q99717;Q9UER7;O95429;Q99704;Q15797;Q92636;Q9BWF2}  
6438 Pathogen[ P03363] interacts with 8 human partners:{Q9BWF2;Q99704;Q9UER7;Q15797;Q92636;O95429;Q99717;Q99933}  
6439 [Cluster 586]GO:0004725+F molecular\_function [name] protein tyrosine phosphatase activity [def] "Catalysis of the reaction  
6440 Pathogen[ Q2Q067] interacts with 9 human partners:{Q99502;O00167;Q9UNH5;P30304;Q9BV47;Q99504;P30307;P30305;Q16829}  
6441 Pathogen[ P0C214] interacts with 12 human partners:{P30307;Q9BV47;O00167;O95278;Q99504;P30305;Q16829;Q9UNH5;Q3ZCQ8;Q13615;P30304;Q99502}  
6442 Pathogen[ P03346] interacts with 19 human partners:{P43378;O95677;O00167;Q8TF42;P30304;Q9H3S7;Q99502;P30305;Q9BV47;Q16667;P17706;Q16829;Q3ZCQ8;O95278;Q9Y2R2;Q99504;P24666;Q9UNH5;P30307}  
6443 Pathogen[ Q85601] interacts with 12 human partners:{O95677;Q16829;Q99504;P30304;O95278;Q9BV47;Q9UNH5;P30305;P30307;Q99502;Q3ZCQ8;O00167}  
6444 Pathogen[ P14079] interacts with 10 human partners:{Q3ZCQ8;Q99502;P30307;Q16829;P30304;Q9BV47;Q99504;P30305;O00167;Q9UNH5}  
6445 Pathogen[ P03383] interacts with 5 human partners:{P30307;Q99504;O00167;P30304;Q9UNH5}

6446 Pathogen[ P03410] interacts with 11 human partners:{Q99502;Q9UNH5;Q16829;Q3ZCQ8;P30304;Q99504;P24666;O00167;P30305;Q9BV47;P30307}

6447 Pathogen[ P14075] interacts with 6 human partners:{Q99504;O00167;P30304;Q99502;Q9UNH5;P30307}

6448 Pathogen[ P0C206] interacts with 16 human partners:{O00167;Q99504;Q9BV47;P30307;Q13615;P30305;Q9Y2R2;Q16829;Q3ZCQ8;P24666;Q9UNH5;O95278;P30304;Q99502;O95677;P17706}

6449 Pathogen[ P03363] interacts with 16 human partners:{P17706;Q9H3S7;Q8TF42;Q9UNH5;Q9Y2R2;P43378;Q16667;Q3ZCQ8;P30304;Q16829;Q99504;Q12923;O00167;Q9BV47;P30307;P24666}

6450 [Cluster 587]GO:0016615+F molecular\_function [name] malate dehydrogenase activity [def] "Catalysis of the reversible conversion of pyruvate or oxaloacetate to malate." [GOC]

6451 Pathogen[ Q2Q067] interacts with 2 human partners:{P40925;P40926}

6452 Pathogen[ P0C214] interacts with 2 human partners:{Q5I0G3;P40926}

6453 Pathogen[ P03346] interacts with 2 human partners:{P40926;P40925}

6454 Pathogen[ Q85601] interacts with 2 human partners:{P40925;P40926}

6455 Pathogen[ P14079] interacts with 1 human partners:{P40925}

6456 Pathogen[ P03383] interacts with 2 human partners:{P40926;P40925}

6457 Pathogen[ P03410] interacts with 2 human partners:{P40926;P40925}

6458 Pathogen[ P14075] interacts with 2 human partners:{P40925;P40926}

6459 Pathogen[ P0C206] interacts with 2 human partners:{P40925;P40926}

6460 Pathogen[ P03363] interacts with 1 human partners:{P40925}

6461 [Cluster 588]GO:0004222+F molecular\_function [name] metalloendopeptidase activity [def] "Catalysis of the hydrolysis of internal, alpha-peptide bonds in a polypeptide chain by a mechanism in which water acts as a nucleophile, one or two metal ions hold the water molecule in place, and charged amino acid side chains are ligands for the metal ions." [GOC]

6462 Pathogen[ Q2Q067] interacts with 1 human partners:{P58557}

6463 Pathogen[ P0C214] interacts with 2 human partners:{P22695;P58557}

6464 Pathogen[ P03346] interacts with 1 human partners:{P58557}

6465 Pathogen[ Q85601] interacts with 1 human partners:{P58557}

6466 Pathogen[ P14079] interacts with 3 human partners:{P22695;Q96KR4;P58557}

6467 Pathogen[ P03383] interacts with 1 human partners:{P58557}

6468 Pathogen[ P03410] interacts with 3 human partners:{P22695;Q96KR4;P58557}

6469 Pathogen[ P14075] interacts with 1 human partners:{P58557}

6470 Pathogen[ P0C206] interacts with 3 human partners:{Q96KR4;P22695;P58557}

6471 Pathogen[ P03363] interacts with 1 human partners:{P58557}

6472 [Cluster 589]GO:0044325+F molecular\_function [name] ion channel binding [def] "Interacting selectively and non-covalently with one or more specific sites on an ion channel, a protein complex that spans a membrane and forms a water-filled channel across the phospholipid bilayer allowing selective ion transport down its electrochemical gradient." [GOC]

6473 Pathogen[ Q2Q067] interacts with 5 human partners:{Q6VY07;Q12959;Q9HD47;Q04917;Q13642}

6474 Pathogen[ P0C214] interacts with 6 human partners:{Q04917;Q13642;Q6VY07;Q12959;Q9HD26;Q9HD47}

6475 Pathogen[ P03346] interacts with 8 human partners:{Q9NRX4;Q9HD47;Q04917;Q14694;Q9HD26;Q13642;Q6VY07;Q12959}

6476 Pathogen[ Q85601] interacts with 6 human partners:{Q9HD47;Q13642;Q04917;Q9HD26;Q6VY07;Q12959}

6477 Pathogen[ P14079] interacts with 8 human partners:{Q6VY07;Q9NRX4;Q04917;Q9HD26;Q13642;O60610;O15273;Q9HD47}

6478 Pathogen[ P03383] interacts with 4 human partners:{Q9HD47;Q9HD26;Q6VY07;Q13642}

6479 Pathogen[ P03410] interacts with 9 human partners:{O60610;Q04917;Q12959;Q9HD47;O15273;Q9HD26;Q9NRX4;Q13642;Q6VY07}

6480 Pathogen[ P14075] interacts with 4 human partners:{Q9HD26;Q13642;Q9HD47;Q6VY07}

6481 Pathogen[ P0C206] interacts with 7 human partners:{Q13642;Q9NRX4;Q04917;Q9HD47;Q6VY07;Q12959;Q9HD26}

6482 Pathogen[ P03363] interacts with 7 human partners:{Q12959;Q9HD47;Q6VY07;Q8IWX8;Q13642;Q04917;Q9HD26}

6483 [Cluster 590]GO:0043015+F molecular\_function [name] gamma-tubulin binding [def] "Interacting selectively and non-covalently with the microtubule constituent protein gamma-tubulin." [GOC]

6484 Pathogen[ Q2Q067] interacts with 12 human partners:{P22392;Q86XR8;Q8TCI5;Q76KD6;Q99608;O75665;Q6QNY1;Q99689;Q9BPU9;Q92597;Q9BXF6;Q96CW5}

6485 Pathogen[ P0C214] interacts with 13 human partners:{Q8TCI5;Q99608;Q96CW5;Q76KD6;Q92597;Q8IYX8;Q9BPU9;Q86XR8;Q99689;Q9BXF6;O75665;P22392;Q6QNY1}

6486 Pathogen[ P03346] interacts with 14 human partners:{Q86XR8;Q9BPU9;Q99689;Q96CW5;Q8IYX8;Q76KD6;O75665;Q92597;Q6QNY1;P51587;P22392;Q99608;Q9BXF6;Q8TCI5}

6487 Pathogen[ Q85601] interacts with 14 human partners:{Q96CW5;Q99608;Q76KD6;Q8TCI5;Q86XR8;O75665;Q9BXF6;P22392;Q99689;Q9BPU9;Q92597}

7;Q6QNY1;P51587;Q8IYX8}  
6488 Pathogen[ P14079] interacts with 14 human  
partners:{P51587;Q92597;Q76KD6;Q99608;Q99689;Q9BXF6;P22392;Q8TCI5;Q9BPU9;O75665;Q86XR  
8;Q8IYX8;Q6QNY1;Q96CW5}  
6489 Pathogen[ P03383] interacts with 11 human  
partners:{Q86XR8;Q99608;Q99689;Q96CW5;P22392;Q92597;Q76KD6;Q8TCI5;Q9BXF6;O75665;Q6QNY  
1}  
6490 Pathogen[ P03410] interacts with 12 human  
partners:{O75665;Q6QNY1;Q99608;Q8IYX8;Q9BPU9;P51587;Q9BXF6;Q8TCI5;Q92597;Q96CW5;Q76KD  
6;Q99689}  
6491 Pathogen[ P14075] interacts with 12 human  
partners:{Q99608;Q76KD6;Q86XR8;Q6QNY1;Q9BPU9;Q8TCI5;Q9BXF6;O75665;Q92597;Q96CW5;P2239  
2;Q99689}  
6492 Pathogen[ P0C206] interacts with 14 human  
partners:{Q9BPU9;Q8TCI5;Q92597;Q86XR8;Q9BXF6;P22392;P51587;Q96CW5;Q6QNY1;Q99689;Q8IYX  
8;Q99608;O75665;Q76KD6}  
6493 Pathogen[ P03363] interacts with 12 human  
partners:{Q92597;Q8TCI5;Q99608;Q9BPU9;Q6QNY1;Q9BXF6;Q76KD6;Q8IYX8;Q86XR8;O75665;Q9968  
9;Q96CW5}  
6494 [Cluster 591]GO:0008139+F molecular\_function [name] nuclear localization sequence  
binding [def] "Interacting selectively and non-covalently with a nuclear localization  
sequence, a specific peptide sequence that acts as a signal to localize the protein  
within the nucleus." [GOC  
6495 Pathogen[ Q2Q067] interacts with 8 human  
partners:{Q14974;Q92973;O14787;Q14978;O00505;P25963;P52292;P52294}  
6496 Pathogen[ P0C214] interacts with 8 human  
partners:{O14787;P52294;Q14978;P25963;O00505;Q92973;P52292;Q14974}  
6497 Pathogen[ P03346] interacts with 8 human  
partners:{O14787;P25963;O00505;Q14978;Q92973;P52292;P52294;Q14974}  
6498 Pathogen[ Q85601] interacts with 8 human  
partners:{Q14978;Q14974;Q92973;O14787;P52292;O00505;P52294;P25963}  
6499 Pathogen[ P14079] interacts with 7 human  
partners:{P52294;Q14974;Q92973;O00505;O14787;P52292;Q14978}  
6500 Pathogen[ P03383] interacts with 8 human  
partners:{Q14978;O00505;P52292;Q92973;P25963;O14787;Q14974;P52294}  
6501 Pathogen[ P03410] interacts with 8 human  
partners:{Q14974;O00505;P52294;Q14978;Q92973;O14787;P25963;P52292}  
6502 Pathogen[ P14075] interacts with 8 human  
partners:{P52292;O14787;Q92973;P25963;O00505;P52294;Q14974;Q14978}  
6503 Pathogen[ P0C206] interacts with 8 human  
partners:{Q14974;P25963;O00505;Q92973;O14787;P52294;P52292;Q14978}  
6504 Pathogen[ P03363] interacts with 9 human  
partners:{Q14978;O14787;Q92973;P25963;Q7Z569;O00505;Q14974;P52292;P52294}  
6505 [Cluster 592]GO:0030060+F molecular\_function [name] L-malate dehydrogenase activity  
[def] "Catalysis of the reaction  
6506 Pathogen[ Q2Q067] interacts with 2 human partners:{P40925;P40926}  
6507 Pathogen[ P0C214] interacts with 1 human partners:{P40926}  
6508 Pathogen[ P03346] interacts with 2 human partners:{P40926;P40925}  
6509 Pathogen[ Q85601] interacts with 2 human partners:{P40925;P40926}  
6510 Pathogen[ P14079] interacts with 1 human partners:{P40925}  
6511 Pathogen[ P03383] interacts with 2 human partners:{P40926;P40925}  
6512 Pathogen[ P03410] interacts with 2 human partners:{P40926;P40925}  
6513 Pathogen[ P14075] interacts with 2 human partners:{P40925;P40926}  
6514 Pathogen[ P0C206] interacts with 2 human partners:{P40925;P40926}  
6515 Pathogen[ P03363] interacts with 1 human partners:{P40925}  
6516 [Cluster 593]GO:0031490+F molecular\_function [name] chromatin DNA binding [def]  
"Interacting selectively and non-covalently with DNA that is assembled into chromatin."  
[GOC  
6517 Pathogen[ Q2Q067] interacts with 9 human  
partners:{P10827;P41182;P10828;O15379;Q8N5F7;P11831;P27695;P84022;Q92769}  
6518 Pathogen[ P0C214] interacts with 8 human  
partners:{P27695;Q8N5F7;P84022;P11831;Q92769;P41182;O15379;P10828}  
6519 Pathogen[ P03346] interacts with 11 human  
partners:{P10827;P11831;O15379;Q92858;Q8N5F7;P84022;Q92769;P41182;P10828;P27695;Q9UIW  
0}  
6520 Pathogen[ Q85601] interacts with 9 human  
partners:{P11831;Q8N5F7;Q92769;P10827;P84022;O15379;P10828;P41182;P27695}  
6521 Pathogen[ P14079] interacts with 7 human  
partners:{O15379;P10828;P10827;P41182;Q92769;P27695;Q8N5F7}  
6522 Pathogen[ P03383] interacts with 7 human  
partners:{P11831;Q8N5F7;P84022;Q92769;O15379;P27695;P10828}  
6523 Pathogen[ P03410] interacts with 7 human  
partners:{P84022;P11831;P10828;Q92769;O15379;P41182;P27695}  
6524 Pathogen[ P14075] interacts with 7 human  
partners:{P11831;P10828;P27695;Q8N5F7;Q92769;O15379;P84022}  
6525 Pathogen[ P0C206] interacts with 9 human

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partners:{P27695;P84022;Q92769;P41182;P10828;O15379;Q8N5F7;P11831;P10827}
6526 Pathogen[ P03363] interacts with 6 human
partners:{Q9UIW0;P10828;O15379;P11831;Q8N5F7;P84022}
6527 [Cluster 594]GO:0003688+F molecular_function [name] DNA replication origin binding
[def] "Interacting selectively and non-covalently with the DNA replication origin, a
unique DNA sequence of a replicon at which DNA replication is initiated and proceeds
bidirectionally or unidirectionally." [GOC
6528 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9UBD5;O43913;Q13416}
6529 Pathogen[ P0C214] interacts with 4 human partners:{O43913;P10809;Q13416;Q9UBD5}
6530 Pathogen[ P03346] interacts with 4 human partners:{Q9UBD5;Q13416;O43929;O43913}
6531 Pathogen[ Q85601] interacts with 3 human partners:{O43913;Q9UBD5;Q13416}
6532 Pathogen[ P14079] interacts with 4 human partners:{Q13416;O43913;Q9UBD5;O43929}
6533 Pathogen[ P03383] interacts with 3 human partners:{Q9UBD5;O43913;Q13416}
6534 Pathogen[ P03410] interacts with 4 human partners:{O43929;Q13416;O43913;Q9UBD5}
6535 Pathogen[ P14075] interacts with 3 human partners:{Q9UBD5;O43913;Q13416}
6536 Pathogen[ P0C206] interacts with 3 human partners:{O43913;Q9UBD5;Q13416}
6537 Pathogen[ P03363] interacts with 3 human partners:{Q13416;Q9UBD5;O43913}
6538 [Cluster 595]GO:0051718+F molecular_function [name] DNA
(cytosine-5-)-methyltransferase activity, acting on CpG substrates [def] "Catalysis of
the reaction
6539 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9Y6K1;Q9UBC3}
6540 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y6K1}
6541 Pathogen[ P03346] interacts with 2 human partners:{Q9Y6K1;Q9UBC3}
6542 Pathogen[ Q85601] interacts with 2 human partners:{Q9Y6K1;Q9UBC3}
6543 Pathogen[ P14079] interacts with 2 human partners:{Q9Y6K1;Q9UBC3}
6544 Pathogen[ P03383] interacts with 1 human partners:{Q9Y6K1}
6545 Pathogen[ P03410] interacts with 2 human partners:{Q9UBC3;Q9Y6K1}
6546 Pathogen[ P14075] interacts with 1 human partners:{Q9Y6K1}
6547 Pathogen[ P0C206] interacts with 2 human partners:{Q9Y6K1;Q9UBC3}
6548 Pathogen[ P03363] interacts with 2 human partners:{Q9Y6K1;Q9UBC3}
6549 [Cluster 596]GO:0033699+F molecular_function [name] DNA 5'-adenosine monophosphate
hydrolase activity [def] "Catalysis of the reaction
6550 Pathogen[ Q2Q067] interacts with 1 human partners:{Q7Z2E3}
6551 Pathogen[ P0C214] interacts with 1 human partners:{Q7Z2E3}
6552 Pathogen[ P03346] interacts with 1 human partners:{Q7Z2E3}
6553 Pathogen[ Q85601] interacts with 1 human partners:{Q7Z2E3}
6554 Pathogen[ P14079] interacts with 1 human partners:{Q7Z2E3}
6555 Pathogen[ P03383] interacts with 1 human partners:{Q7Z2E3}
6556 Pathogen[ P03410] interacts with 1 human partners:{Q7Z2E3}
6557 Pathogen[ P14075] interacts with 1 human partners:{Q7Z2E3}
6558 Pathogen[ P0C206] interacts with 1 human partners:{Q7Z2E3}
6559 Pathogen[ P03363] interacts with 1 human partners:{Q7Z2E3}
6560 [Cluster 597]GO:0070628+F molecular_function [name] proteasome binding [def]
"Interacting selectively and non-covalently with a proteasome, a large multisubunit
protein complex that catalyzes protein degradation." [GOC
6561 Pathogen[ Q2Q067] interacts with 4 human partners:{Q9Y5K5;Q9NZJ4;Q16186;O15205}
6562 Pathogen[ P0C214] interacts with 5 human
partners:{Q16186;P46379;Q9Y5K5;Q9NZJ4;O15205}
6563 Pathogen[ P03346] interacts with 6 human
partners:{P25686;Q9NZJ4;P46379;O15205;Q16186;Q9Y5K5}
6564 Pathogen[ Q85601] interacts with 5 human
partners:{P46379;Q9Y5K5;O15205;Q9NZJ4;Q16186}
6565 Pathogen[ P14079] interacts with 5 human
partners:{Q9NZJ4;O00487;Q16186;Q9Y5K5;O15205}
6566 Pathogen[ P03383] interacts with 3 human partners:{Q9Y5K5;O15205;Q16186}
6567 Pathogen[ P03410] interacts with 5 human
partners:{O15205;P25686;Q9NZJ4;Q9Y5K5;Q16186}
6568 Pathogen[ P14075] interacts with 3 human partners:{Q16186;O15205;Q9Y5K5}
6569 Pathogen[ P0C206] interacts with 5 human
partners:{Q16186;Q9NZJ4;O15205;Q9Y5K5;P46379}
6570 Pathogen[ P03363] interacts with 5 human
partners:{P46379;Q16186;O15205;Q9Y5K5;Q9NZJ4}
6571 [Cluster 598]GO:0008262+F molecular_function [name] importin-alpha export receptor
activity [def] "Interacting selectively and non-covalently with importin-alpha to
mediate its transfer through the nuclear pore to the cytoplasm." [GOC
6572 Pathogen[ Q2Q067] interacts with 1 human partners:{P55060}
6573 Pathogen[ P0C214] interacts with 1 human partners:{P55060}
6574 Pathogen[ P03346] interacts with 1 human partners:{P55060}
6575 Pathogen[ Q85601] interacts with 1 human partners:{P55060}
6576 Pathogen[ P14079] interacts with 1 human partners:{P55060}
6577 Pathogen[ P03383] interacts with 1 human partners:{P55060}
6578 Pathogen[ P03410] interacts with 1 human partners:{P55060}
6579 Pathogen[ P14075] interacts with 1 human partners:{P55060}
6580 Pathogen[ P0C206] interacts with 1 human partners:{P55060}
6581 Pathogen[ P03363] interacts with 1 human partners:{P55060}
6582 [Cluster 599]GO:0003713+F molecular_function [name] transcription coactivator activity
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[def] "Interacting selectively and non-covalently with a activating transcription factor and also with the basal transcription machinery in order to increase the frequency, rate or extent of transcription. Cofactors generally do not bind DNA, but rather mediate protein-protein interactions between activating transcription factors and the basal transcription machinery." [GOC

- 6583 Pathogen[ Q2Q067] interacts with 178 human  
partners: {Q13562;Q9UNN4;P27540;P25490;Q92585;Q9Y4A5;Q99583;Q8IZL2;Q9Y2Y0;Q8IZD2;Q99417;Q9Y5V3;Q16594;Q9UGU0;O75925;Q92922;Q9BUP3;Q96RK1;P06400;O00233;Q9HAZ2;P46937;O75151;O95402;O00287;P10589;Q9UI56;P62826;Q15596;O96019;Q01664;P51531;P61457;O96004;Q6P1K2;Q15653;Q86UU0;Q13772;P37275;Q14140;Q9HD15;P49116;Q16633;P55345;Q99990;Q93074;P18850;O95999;O75486;Q14192;P06748;Q9UNL4;O75586;Q9H0E3;Q03933;Q8N8G2;Q6ZRS2;O75448;Q9NPI1;O60244;P52657;P51610;Q14934;O14776;P17010;Q9Y4Z2;O75928;Q92905;Q86UE4;P15172;O94906;Q14CW9;P28702;P48552;Q12962;P78545;O00170;Q9Y4A8;Q9ULK4;P27695;Q8IX03;Q9Y5Z7;P53999;Q9ULW3;Q99966;Q8N0Z2;P78317;Q9BYK8;Q14186;O60828;O75529;P56693;Q92831;Q9UKD1;O14948;Q969G3;Q92539;Q15643;O75528;Q92925;O14497;Q9UHV7;P24864;Q9GZV5;Q9ULH7;Q15544;O00268;P51532;Q6P2C8;P62380;P50613;Q9NVC6;Q92830;O15164;Q14865;Q16514;Q13951;Q96GM5;Q16621;Q92993;P61244;Q8NFD5;Q5VTR2;Q9Y6J9;Q13503;Q58F21;O94805;P15336;Q9Y2X0;O94864;Q14686;Q96T76;Q15545;Q14872;P52655;P35269;Q12824;O43513;Q00653;Q969V6;Q5T230;Q9P1Z2;Q05086;Q8TAQ2;Q92793;P68036;P21675;Q9NPA8;Q9BQA5;O60869;Q86Y01;Q6STE5;Q8IY57;Q9Y2W1;P23497;Q9Y692;Q13952;P15923;Q13490;Q96BN2;P57086;Q8IXJ9;O95905;Q9H7E2;Q93062;Q92841;Q96JK9;Q14207;Q66K89;Q86X55;Q86TU7;P54821;Q06546;Q15650;Q8N9B5;Q14693;Q9UBS8;P33076}
- 6584 Pathogen[ P0C214] interacts with 175 human  
partners: {Q05086;Q92993;O00170;O00268;P18850;Q92585;Q58F21;Q8IX03;Q00653;P27695;O75486;P61244;Q9Y5Z7;Q9Y5V3;Q8N0Z2;Q14207;P51610;O75528;Q13952;Q06546;Q9Y6J9;P17010;Q9Y4A8;Q14865;Q12824;Q14872;Q13490;Q13772;O75925;O14497;O75586;P15336;P52657;Q8IZL2;P21675;P48552;P62380;P52655;P06748;P35269;Q9HD15;P50613;Q92841;P33076;Q9Y2X0;Q14CW9;Q5T230;Q16621;Q93074;P17275;Q92793;P56693;P53999;P46937;P61457;Q8N8G2;Q6ZRS2;P15172;Q9GZV5;Q99417;Q9UNN4;Q99990;Q9NVC6;Q9UNL4;Q6STE5;Q12962;P37275;Q96BN2;P55345;O75151;Q14686;O94864;Q15545;O60244;Q6P1K2;Q15653;Q8TAQ2;Q16594;Q9UKD1;Q86UE4;P78317;O94906;Q03933;O14776;O60828;Q9BYK8;P57086;Q92922;Q99966;Q16633;Q969G3;Q9BUP3;Q8IXJ9;Q14186;P49116;P15923;Q9UGU0;Q92905;Q92539;O14948;O43513;O95999;Q15544;Q9HAZ2;Q15643;Q96RK1;Q9NPA8;Q9UBS8;Q92925;Q14192;Q86TU7;Q96JK9;Q16514;Q4LE28;Q14934;Q15650;Q6P2C8;O75529;Q86UU0;Q9Y4A5;Q14140;Q9UHV7;P62826;P23497;P05412;Q8N9B5;Q92831;O75448;O15164;Q9NPI1;P24864;Q9H7E2;Q92830;Q9Y2Y0;Q9ULW3;Q9UI56;Q969V6;O95905;O96004;P27540;Q86X55;P78545;Q9ULH7;Q9BQA5;Q9P1Z2;Q15596;Q13503;O00233;O60869;Q8NFD5;Q86Y01;Q9ULK4;P51531;Q5VTR2;O94805;Q9Y2W1;Q01664;Q9Y692;Q99583;Q93062;Q96GM5;Q66K89;O95402;O96019;P06400;O00287;Q96T76;P51532;Q8IZD2;Q13951;Q9H0E3;Q8IY57;P17980;O75928;Q14693}
- 6585 Pathogen[ P03346] interacts with 192 human  
partners: {Q9Y6J9;P54821;P05412;Q92585;Q16621;P46937;Q13263;Q9Y4Z2;Q8N0Z2;Q5TD97;Q15788;O95402;Q14207;Q99966;Q8N8G2;P68036;Q93062;Q8N9B5;Q96GM5;Q86UE4;P06748;Q9UNL4;Q9ULW3;O75586;P15336;Q5VTR2;Q9Y5Z7;Q9H7E2;Q9BUP3;Q8NFD5;P06400;P51532;Q9GZV5;Q92841;Q15653;Q03933;P17275;P49116;Q14872;Q9HD15;P25490;P51610;O75486;Q92925;P15923;P15172;P56693;O00287;Q93074;Q9NPI1;Q9ULH7;P33076;O00170;P24864;O00268;O60244;Q8IX03;Q12824;P27540;Q969V6;Q9H0E3;Q92831;O75151;O94906;Q66K89;P17010;O00151;P62826;O95999;P18850;Q14934;Q99417;O00233;O96004;Q4LE28;Q5T230;O75448;O75925;P28702;Q14186;Q92830;Q6BN2;Q58F21;Q92794;Q15643;O43513;O96019;Q9Y692;Q99990;O14948;O94864;O95096;P53999;Q92539;Q06546;Q15596;Q02446;O75528;Q9Y4A5;O75529;P62380;Q6P2C8;Q13951;Q14192;Q9UNN4;Q9P1Z2;Q6STE5;O14497;P55345;P52657;O95905;O75840;O94805;P37275;Q16514;Q9Y5V3;Q12962;P78317;O95718;Q9UBS8;Q6ZRS2;Q14865;O75469;Q92905;Q16633;Q96RK1;P61244;Q92481;Q13952;Q969G3;P21675;P35269;Q9NVC6;Q92922;Q9UGU0;P48552;Q13490;Q9UL56;Q86X55;P23497;Q8IXJ9;Q05086;P27695;P61457;Q9BYK8;Q9Y2Y0;Q86UU0;Q92993;Q9Y2X0;Q99583;Q92793;P51531;O60869;P78545;Q14CW9;Q13503;O60828;Q86Y01;Q15545;Q8IY57;Q9ULK4;Q9HAZ2;Q9Y2W1;Q13562;O75928;P52655;Q8TAQ2;Q9NPA8;Q6P1K2;Q13285;Q01664;Q15544;Q8IZD2;Q13772;O15164;Q9UHV7;Q15650;Q96T76;Q9UKD1;Q96JK9;O14776;Q8IZL2;Q00653;Q9Y4A8;Q14693;Q14140;Q9BQA5;Q14686;P57086;Q16594;Q86TU7;P10589}
- 6586 Pathogen[ Q85601] interacts with 179 human  
partners: {Q5T230;Q96RK1;Q9UNN4;P52657;Q9ULW3;P78317;Q9Y2X0;Q92585;Q9Y5T5;Q15643;Q9H7E2;Q96T76;Q96JK9;O94864;P33076;O75528;O75928;Q13490;Q8N8G2;Q9Y4Z2;Q86X55;P15172;Q9ULK4;Q6STE5;O75151;Q14CW9;Q06546;Q16621;P06400;Q969V6;Q03933;Q9H0E3;Q13951;Q99417;Q9UHV7;Q92925;Q99966;Q14872;P28702;Q9Y4A5;Q86TU7;Q9Y2Y0;P62826;P78545;Q15545;Q9ULH7;Q86UU0;P25490;Q9UNL4;Q8IXJ9;O00268;Q9GZV5;O14497;O96019;O00151;P27540;P53999;O75448;Q92831;Q15653;O15164;Q16594;Q15596;O96004;Q9Y692;O94906;P68036;P17010;Q13952;O14776;P51610;Q9Y6J9;P51531;Q13562;Q14934;O00170;Q13263;Q96GM5;O00233;Q16633;Q14686;Q13503;Q14186;Q92830;Q15650;P51532;Q969G3;O14948;Q9HD15;O95402;O75529;Q9Y5V3;Q14192;Q8NFD5;Q92905;P35269;Q13772;P05412;Q8IZL2;Q6ZRS2;Q9Y4A8;Q16514;P18850;Q9BYK8;P57086;P06748;Q14865;Q86UE4;P50613;P15923;O95905;P56693;Q14207;Q99583;P61244;Q9BQA5;Q9NPI1;Q5VTR2;Q9Y5Z7;Q9UGU0;P37275;P21675;Q96BN2;P46937;Q6P2C8;Q9NPA8;Q9UBS8;Q12962;Q4LE28;O75486;P52655;Q99990;P49116;Q05086;Q66K89;Q14140;P48552;O00287;Q00653;Q92993;O95999;P15336;Q92793;O60869;Q9P1Z2;O75586;Q8N0Z2;O60828;Q86Y01;Q8IY57;O94805;Q8IX03;P17275;Q9Y2W1;Q92922;Q12824;Q8TAQ2;O60244;P62380;O75925;Q8N9B5;Q6P1K2;Q9BUP3;Q93074;P27695;Q01664;Q92539;Q58F21;Q15544;Q8IZD2;P61457;Q9NVC6;O43513;P55345;Q14693;P24864;Q9HAZ2;Q93062;P10589}
- 6587 Pathogen[ P14079] interacts with 173 human  
partners: {O14776;P48552;Q13952;Q13772;Q9H0E3;O60244;Q9NPI1;O95402;O15164;Q9Y2X0;O43513;Q9HAZ2;P33076;Q9Y4A5;O75151;Q9BYK8;P57086;Q6STE5;Q8N8G2;Q15596;O94906;Q9GZV5;Q06546;Q9Y6J9;Q14693;O60828;O75928;P35269;Q14186;O75528;O95999;P68036;Q8IXJ9;Q16594;Q14192;Q92830;P17010;Q9UKD1;P53999;P24864;Q8N9B5;Q96JK9;Q58F21;Q14207;Q5T230;Q92793;O00170;Q16633;P61457;Q9UI56;Q14CW9;Q92922;Q9Y2Y0;P51532;Q9UNL4;Q6P2C8;Q14865;O75529;Q93062;Q9

- ULK4;Q86TU7;Q9NVC6;Q99966;P51531;O96004;Q6ZRS2;Q8IZL2;O14497;Q8TAQ2;O95905;P46937;O60869;O00151;O00233;O94864;P62380;Q9BQA5;P15923;Q969V6;Q03933;Q96BN2;P23497;P51610;Q92539;O95718;Q9BUP3;O75448;P50613;Q9Y5Z7;Q99583;P55345;Q9ULW3;O94805;Q9Y5V3;Q86Y01;O75586;Q8IX03;Q12962;Q9ULH7;Q8IY57;Q9UHV7;Q5VTR2;Q14934;O75469;P27540;Q66K89;P17275;Q99990;P15336;Q9HD15;Q96GM5;P28702;Q8NFD5;O43294;Q15788;Q9UNN4;Q01664;Q99417;P27695;Q92905;Q96RK1;O00287;Q86UE4;Q86UU0;Q16621;P06748;P52657;P56693;Q9Y692;P18850;Q8N0Z2;Q5TD97;Q14872;Q9H7E2;O75925;Q13503;Q9UBS8;P78317;P78545;O14948;Q12824;P10589;Q93074;P62826;P49116;P05412;Q15650;Q9Y4A8;P25490;Q16514;Q14140;Q9P1Z2;Q92585;O75486;P61244;Q13951;Q96T76;Q14686;P17980;Q9Y2W1;Q9NPA8;Q9UGU0;P37275;Q92925;Q15643;Q02446;Q92993;P21675;O00268;Q6P1K2;Q15545;Q13490;Q15653}
- 6588 Pathogen[ P03383] interacts with 165 human  
partners: {O95402;Q8IXJ9;Q9Y2Y0;Q9Y6J9;Q92585;O75925;Q92831;Q96T76;Q96JK9;O14497;P33076;O96019;P06748;O75528;P27540;Q15544;Q9NPA8;Q12824;Q16633;P35269;Q00653;O94805;Q86UE4;Q15596;P15172;O75486;Q9ULK4;O00287;Q15650;Q9UKD1;Q9H7E2;P49116;Q9Y4A5;O60244;O94864;P53999;Q92905;O00233;Q4LE28;Q86X55;Q8IZL2;Q13490;Q14686;Q6STE5;Q9UBS8;P52655;Q92841;P37275;P15923;Q9ULW3;O00170;Q9UNL4;P78317;Q96BN2;Q96RK1;Q92993;O75151;Q969V6;Q86TU7;P61457;Q15653;Q93074;Q86UU0;Q9Y692;P06400;O94906;Q66K89;Q01664;Q14872;P62826;Q14CW9;Q9HAZ2;P52657;Q14934;O75448;Q96GM5;Q8N8G2;O96004;O75529;Q15643;P51610;Q13952;Q16594;Q14186;Q6P2C8;Q16621;Q9HD15;P17010;P50613;Q969G3;O14948;Q99990;Q13951;Q14192;Q9BQA5;Q92830;Q9Y5V3;Q9ULH7;Q99417;P28702;P51531;Q9UNN4;O00268;O60828;Q16514;Q8N0Z2;O14776;Q92925;Q8TAQ2;O95999;Q58F21;Q14207;Q9UI56;Q5VTR2;Q99583;Q8IX03;P23497;P21675;Q9BUP3;P68036;Q6P1K2;Q9Y4A8;Q5T230;Q8N9B5;P78545;Q8IY57;P51532;Q9NPI1;Q13772;Q12962;P27695;P57086;Q14140;P48552;Q9UHV7;Q8NFD5;Q92922;P15336;Q9NVC6;P18850;O60869;O75586;P24864;Q86Y01;Q15545;P17275;Q9Y2W1;P61244;P56693;P46937;Q9GZV5;Q06546;Q92539;Q9BYK8;Q9Y2X0;Q9P1Z2;Q92793;O95905;Q13503;Q14693;Q9H0E3;O75928;Q93062;Q03933;P05412}
- 6589 Pathogen[ P03410] interacts with 175 human  
partners: {Q15650;Q92830;P57086;Q92831;Q9Y2W1;Q9UI56;P52655;P53999;P51610;Q9UNN4;O75925;Q96T76;Q13772;P37275;Q93062;O00268;Q9HAZ2;O96004;Q66K89;Q5T230;Q96GM5;O14948;O14497;Q8IX03;Q8N8G2;O96019;Q9UKD1;Q9ULH7;Q12962;Q9BQA5;P21675;Q14686;Q13503;Q9BYK8;O75528;Q9NVC6;P78545;O00233;Q14207;Q13490;Q9UNL4;Q92905;Q14CW9;Q9Y692;Q86X55;P62380;O75928;O43294;Q15653;Q5VTR2;P06748;P06400;Q16633;P68036;P15923;P52657;Q8NFD5;P50613;Q03933;Q92585;P25490;P61244;Q14693;O75486;P17010;Q9GZV5;Q9H0E3;Q92925;Q969V6;Q9P1Z2;P27540;O75151;O94906;Q8IZL2;Q9NPA8;Q99990;Q96JK9;Q6ZRS2;Q92793;O95905;Q86Y01;Q8IY57;Q9ULK4;O95402;Q969G3;Q96BN2;O95999;O43513;Q9Y4A5;O94805;P62826;Q16514;Q9UBS8;P17275;O00170;Q16621;Q9Y5Z7;Q14872;Q86UE4;Q6P1K2;P78317;Q8IXJ9;Q92922;Q14140;O94864;Q99583;Q13952;Q14186;Q9BUP3;O14776;P28702;P56693;Q9H7E2;P46937;Q6P2C8;P35269;Q9Y6J9;P51532;Q16594;Q4LE28;P05412;O60828;Q15596;P51531;Q15544;Q15643;O60244;Q9UHV7;Q13951;Q9Y5V3;Q9ULW3;Q8N9B5;P27695;Q01664;O60869;Q96RK1;P49116;O00287;Q8TAQ2;P10589;Q8N0Z2;Q00653;Q99417;Q9Y2X0;Q93074;O00151;Q9Y4A8;Q6STE5;O75529;Q9HD15;Q12824;Q14865;Q9Y2Y0;Q92539;P48552;P15336;Q92993;P24864;Q58F21;Q9UGU0;P18850;P33076;Q14934;Q86UU0;O75448;Q14192;Q06546;Q15545;Q9NPI1;P17980;Q86TU7;O75586;P55345;P61457;Q99966}
- 6590 Pathogen[ P14075] interacts with 165 human  
partners: {Q16633;Q5VTR2;Q86UU0;Q9Y6J9;Q92585;Q9BUP3;Q9GZV5;Q15643;Q12962;P23497;Q99990;Q14207;P21675;Q13951;Q96GM5;P52657;Q8IXJ9;P68036;Q9NPI1;P05412;Q9BQA5;Q8IY57;O60828;Q92831;P78545;Q86UE4;P27695;P51532;O00233;Q14686;P17275;Q9Y4A8;P57086;Q06546;O14776;P61244;P50613;Q86TU7;Q03933;P51610;Q9Y2Y0;P15172;P33076;Q92922;O75925;Q96RK1;O00287;Q93062;Q15544;O75448;Q9Y4A5;P56693;P15336;Q15653;Q96BN2;P15923;O94906;Q13952;Q16594;Q8N0Z2;Q92993;O14497;O95402;Q9HAZ2;P27540;O75586;Q9H0E3;O96004;Q93074;O94864;Q14186;P49116;O96019;Q92539;Q9Y692;Q14CW9;Q4LE28;O14948;O00170;Q01664;Q13490;Q58F21;Q9UHV7;O75528;Q15650;Q86X55;P51531;Q14934;P35269;Q9NPA8;O60244;O75928;Q9ULW3;Q92925;P53999;P52655;Q9UKD1;P62826;Q16514;Q8TAQ2;Q9P1Z2;Q99417;P06748;Q15545;P61457;P78317;Q96JK9;Q969V6;O95999;P06400;Q12824;O94805;Q66K89;Q9ULK4;P17010;O00268;Q9UNL4;Q9UNN4;Q9H7E2;Q6P2C8;Q5T230;Q92793;P28702;Q9NVC6;Q92841;Q13772;P46937;Q9UBS8;P48552;O75486;Q13503;Q8NFD5;Q00653;Q6P1K2;O75529;Q16621;Q99583;P37275;O60869;Q6STE5;Q8IZL2;Q86Y01;Q92905;Q9Y5V3;Q9Y2W1;Q92830;O43513;O75151;Q8N9B5;Q14872;Q14192;Q9HD15;Q14693;Q9UI56;Q8N8G2;Q9Y2X0;Q96T76;Q15596;O95905;Q9ULH7;P18850;Q8IX03;Q14693;Q14140;P24864}
- 6591 Pathogen[ P0C206] interacts with 188 human  
partners: {P27695;Q99990;P46937;O75486;Q86Y01;Q92539;O75528;Q92830;Q06546;Q15545;Q16514;Q9BUP3;Q9HAZ2;P51532;Q9NPI1;Q9Y4A8;Q86UU0;Q13263;O94864;Q15544;Q9Y5T5;P17275;O14948;Q9UGU0;O75925;P25490;P68036;Q02446;P18850;Q9H7E2;Q9Y4Z2;P51531;P54821;Q99583;P62380;P52657;Q86X55;O75469;Q96JK9;P52655;O95999;Q03933;Q6STE5;P05412;Q05086;O00268;Q9Y5V3;Q13951;Q9Y5Z7;O75586;O60828;P15336;Q86TU7;Q15653;P57086;Q6ZRS2;Q6P2C8;Q92922;Q14186;Q14140;O15164;P62826;Q9P1Z2;P56693;O95905;Q92993;Q12824;Q9Y6J9;Q9UNN4;O75529;Q92925;P49116;Q9HD15;Q9UHV7;P78317;Q8TAQ2;Q92831;Q9BQA5;P33076;Q5VTR2;Q8N9B5;O96004;Q92793;P10589;Q9GZV5;O43513;Q9H0E3;O75151;Q9BYK8;Q6P1K2;Q13952;O95718;O14497;O96019;Q16633;Q969V6;P35269;Q15650;P53999;O95402;P50613;P17010;Q9Y4A5;Q8IXJ9;Q9ULW3;Q9UI56;Q8IZL2;Q14CW9;P51610;Q9UBS8;P15923;Q14686;O00151;Q9Y692;Q5T230;Q9Y2W1;P78545;O43294;Q92841;Q14872;P61244;O14776;O60869;P61457;Q14934;Q96T76;Q13562;Q96RK1;O60244;Q01664;Q99966;Q9ULK4;Q8IY57;Q5TD97;Q00653;P28702;Q15596;P37275;Q99417;Q9UKD1;Q16621;Q86UE4;O00287;P27540;Q9NVC6;P15172;Q969G3;Q13772;O94906;Q14192;Q96BN2;O75448;Q8NFD5;Q12962;Q58F21;P06748;O00170;Q13503;P55345;Q14865;Q9Y2X0;Q9Y2Y0;Q93062;P48552;Q66K89;Q15643;Q14693;Q9NPA8;Q8N0Z2;P24864;Q15788;Q93074;O00233;O94805;Q9ULH7;Q14207;Q8IX03;Q9UNL4;Q92585;Q8N8G2;Q8IZD2;P21675;Q4LE28;Q16594;Q92905;P06400;Q13490}
- 6592 Pathogen[ P03363] interacts with 165 human  
partners: {Q9UNN4;Q86Y01;Q9UKD1;Q13490;Q8N8G2;Q9ULW3;Q8IXJ9;Q9Y4Z2;Q6P1K2;Q9BUP3;P62380;Q92925;Q4LE28;Q14865;Q13503;P17010;P27540;P49116;P24864;Q6STE5;Q58F21;Q92539;Q06546}



;Q13952;Q92831;Q03933;Q9HD15;P37275;Q8TAQ2;Q9Y4A8;Q6ZRS2;P51532;Q16514;P18850;Q9H7E2;P25490;O14497;Q15545;O95905;P78317;O94864;Q96JK9;Q16621;Q5VTR2;Q66K89;O00268;Q99417;Q969V6;O14948;Q15596;Q86UE4;Q14686;P23497;P06400;P57086;P06748;Q05086;P17275;Q96RK1;Q8N0Z2;P52657;P61244;Q9UNL4;P35269;Q8IY57;Q12962;P15923;P15336;Q13951;Q15653;Q14140;P48552;Q9Y5Z7;P61457;O75529;P46937;Q14872;P56693;P28702;O96019;Q00653;Q15544;Q96T76;Q92841;Q96BN2;Q9GZV5;P78545;Q92830;Q9P1Z2;Q9NVC6;Q969G3;Q5T230;Q9NPI1;Q9ULH7;Q9BQA5;Q9UHV7;O75586;O96004;O94805;Q9BYK8;Q9NPA8;O75925;Q86U00;O00287;P54821;Q93074;Q9UBS8;Q9Y692;P53999;Q92793;Q16633;O75448;Q9UI56;O60869;P21675;P33076;Q14CW9;Q99990;P52655;O95402;Q9Y4A5;Q14186;Q9Y5V3;P05412;O94906;Q14934;O60244;O75486;O14776;Q9H0E3;Q14207;Q9Y2Y0;Q8NFD5;Q96GM5;Q9ULK4;Q8IX03;P51531;Q92922;O60828;P62826;Q6P2C8;P15172;O43513;O00170;Q15643;P10589;Q99583;Q8N9B5;Q01664;Q8IZL2;Q92993;Q9Y6J9;Q12824;Q86X55;Q92905;Q02446;O75528;Q92585;Q15650;P51610;O75928;P68036;Q16594;Q9HAZ2;Q14192}

6593 [Cluster 600]GO:0031434+F molecular\_function [name] mitogen-activated protein kinase kinase binding [def] "Interacting selectively and non-covalently with a mitogen-activated protein kinase kinase, any protein that can phosphorylate a MAP kinase." [GOC]

6594 Pathogen[ Q2Q067] interacts with 5 human partners:{Q12959;Q13233;Q9UQF2;Q13526;P78318}

6595 Pathogen[ P0C214] interacts with 5 human partners:{P78318;Q13526;Q13233;Q12959;Q9UQF2}

6596 Pathogen[ P03346] interacts with 5 human partners:{Q13526;Q13233;Q9UQF2;P78318;Q12959}

6597 Pathogen[ Q85601] interacts with 5 human partners:{Q9UQF2;Q13526;Q12959;Q13233;P78318}

6598 Pathogen[ P14079] interacts with 3 human partners:{Q9UQF2;Q13526;P78318}

6599 Pathogen[ P03383] interacts with 4 human partners:{Q13233;Q9UQF2;P78318;Q13526}

6600 Pathogen[ P03410] interacts with 5 human partners:{P78318;Q13526;Q12959;Q13233;Q9UQF2}

6601 Pathogen[ P14075] interacts with 4 human partners:{Q13526;P78318;Q13233;Q9UQF2}

6602 Pathogen[ P0C206] interacts with 5 human partners:{P78318;Q13526;Q9UQF2;Q13233;Q12959}

6603 Pathogen[ P03363] interacts with 5 human partners:{Q12959;Q9UQF2;Q13526;P78318;Q13233}

6604 [Cluster 601]GO:0042605+F molecular\_function [name] peptide antigen binding [def] "Interacting selectively and non-covalently with an antigen peptide." [GOC]

6605 Pathogen[ Q2Q067] interacts with 1 human partners:{Q92585}

6606 Pathogen[ P0C214] interacts with 1 human partners:{Q92585}

6607 Pathogen[ P03346] interacts with 1 human partners:{Q92585}

6608 Pathogen[ Q85601] interacts with 1 human partners:{Q92585}

6609 Pathogen[ P14079] interacts with 1 human partners:{Q92585}

6610 Pathogen[ P03383] interacts with 1 human partners:{Q92585}

6611 Pathogen[ P03410] interacts with 1 human partners:{Q92585}

6612 Pathogen[ P14075] interacts with 1 human partners:{Q92585}

6613 Pathogen[ P0C206] interacts with 1 human partners:{Q92585}

6614 Pathogen[ P03363] interacts with 1 human partners:{Q92585}

6615 [Cluster 602]GO:0016705+F molecular\_function [name] oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen [def] "Catalysis of an oxidation-reduction (redox) reaction in which hydrogen or electrons are transferred from each of two donors, and molecular oxygen is reduced or incorporated into a donor." [GOC]

6616 Pathogen[ Q2Q067] interacts with 3 human partners:{Q96KS0;Q9H6Z9;Q9GZT9}

6617 Pathogen[ P0C214] interacts with 3 human partners:{Q96KS0;Q9H6Z9;Q9GZT9}

6618 Pathogen[ P03346] interacts with 3 human partners:{Q9GZT9;Q96KS0;Q9H6Z9}

6619 Pathogen[ Q85601] interacts with 3 human partners:{Q9H6Z9;Q9GZT9;Q96KS0}

6620 Pathogen[ P14079] interacts with 4 human partners:{Q9GZT9;Q8IVL6;Q9H6Z9;Q96KS0}

6621 Pathogen[ P03383] interacts with 2 human partners:{Q96KS0;Q9H6Z9}

6622 Pathogen[ P03410] interacts with 3 human partners:{Q96KS0;Q9H6Z9;Q9GZT9}

6623 Pathogen[ P14075] interacts with 3 human partners:{Q96KS0;Q9GZT9;Q9H6Z9}

6624 Pathogen[ P0C206] interacts with 3 human partners:{Q96KS0;Q9GZT9;Q9H6Z9}

6625 Pathogen[ P03363] interacts with 1 human partners:{Q9H6Z9}

6626 [Cluster 603]GO:0005044+F molecular\_function [name] scavenger receptor activity [def] "Combining with any modified low-density lipoprotein (LDL) or other polyanionic ligand and delivering the ligand into the cell via endocytosis. Ligands include acetylated and oxidized LDL, Gram-positive and Gram-negative bacteria, apoptotic cells, beta-amyloid fibrils, and advanced glycation end products (AGEs)." [GOC]

6627 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96JS3}

6628 Pathogen[ P0C214] interacts with 1 human partners:{Q96JS3}

6629 Pathogen[ P03346] interacts with 1 human partners:{Q96JS3}

6630 Pathogen[ Q85601] interacts with 1 human partners:{Q96JS3}

6631 Pathogen[ P14079] interacts with 2 human partners:{Q6AZY7;Q96JS3}

6632 Pathogen[ P03383] interacts with 1 human partners:{Q96JS3}

6633 Pathogen[ P03410] interacts with 2 human partners:{Q96JS3;Q6AZY7}

6634 Pathogen[ P14075] interacts with 1 human partners:{Q96JS3}

6635 Pathogen[ P0C206] interacts with 1 human partners:{Q96JS3}

6636 Pathogen[ P03363] interacts with 1 human partners:{Q96JS3}

6637 [Cluster 604]GO:0051082+F molecular\_function [name] unfolded protein binding [def]

"Interacting selectively and non-covalently with an unfolded protein." [GOC  
6638 Pathogen[ Q2Q067] interacts with 48 human  
partners:{Q9HAV7;O75494;P38646;Q13111;P61604;P50502;P08238;O76031;P07900;P06748;O7534  
7;P02511;P08107;Q8TAA5;Q99471;O00170;Q9UBS4;P11142;Q13112;P27797;Q9UDY4;Q9UBS3;P17987  
;Q15388;Q9NQP4;Q9UBK9;O75190;P50991;Q99733;O14656;Q9UHV9;Q99615;Q16543;Q15185;P25685;  
Q53G26;P61758;Q9Y375;O75953;P02489;P78371;P23284;P31689;Q96EY1;O94763;P62937;Q9NZD4;P  
14625}  
6639 Pathogen[ P0C214] interacts with 62 human  
partners:{O00170;Q9UDY4;Q58FG0;Q16543;P14625;Q99832;Q58FF7;P49368;Q15388;Q9HAV7;O7534  
7;P78371;P02489;P02511;P48643;P61758;P06748;O75190;Q13112;Q13111;P61604;Q9Y375;Q58FG1  
;O14656;P23284;Q9UBS3;Q8WW22;Q9UBS4;Q99615;O76031;Q99614;P45877;Q9UHV9;Q9NZD4;P49257;  
P38646;P10809;Q53G26;Q8TAA5;Q58FF3;Q58FF6;O75494;P27797;Q99471;Q58FF8;O60925;P17987;O  
60884;P50991;O94763;Q5F1R6;Q9NQP4;Q14568;P08107;Q9UBK9;Q99733;Q15185;O75953;Q96EY1;P5  
0502;P11142;P25685}  
6640 Pathogen[ P03346] interacts with 56 human  
partners:{P08107;Q5F1R6;Q99615;Q9UBS3;P07900;P25685;P06748;O75190;P14625;P50502;P0248  
9;Q99471;Q9UHV9;O14656;O94763;Q99733;Q9NZD4;P49257;P61604;Q9NQP4;P62937;P78371;Q15185  
;O00170;P11142;P25686;Q9H173;O76031;O75347;Q9HAV7;P38646;P02511;P50991;P49368;Q13111;  
Q16543;P31689;Q9Y375;Q53G26;P27797;Q96KC8;Q9UBS4;O60925;Q15388;Q9UDY4;Q13112;P61758;Q  
9UBK9;Q8TAA5;O75494;P08238;O75953;Q99614;Q96EY1;P23284;P17987}  
6641 Pathogen[ Q85601] interacts with 57 human  
partners:{P02489;Q16543;P08107;Q99733;P31689;Q8TAA5;Q15388;Q9NQP4;O75190;Q9UBS3;Q58FF  
8;Q99471;Q53G26;Q13112;P61604;Q9UHV9;Q9UBS4;Q8WW22;P61758;O60884;P27797;O75494;P17987  
;P25685;O75953;O00170;P50991;Q9Y375;P49257;P02511;P11142;P23284;O75347;P08238;Q9HAV7;  
Q99615;O14656;P06748;Q9UDY4;Q9NZD4;P07900;Q15185;P14625;P38646;O76031;O94763;Q58FF3;P  
50502;P78371;Q13111;P48643;Q9UBK9;Q14568;P62937;Q96EY1;P45877;Q5F1R6}  
6642 Pathogen[ P14079] interacts with 59 human  
partners:{P48643;P49257;O60925;P11142;Q9Y375;P05408;Q9UBS3;P02511;O00170;Q99733;P5099  
1;Q9UBS4;Q9UDY4;P78371;Q9UHV9;Q13112;P50990;Q13111;P62937;Q9NQP4;O75190;P61758;P02489  
;P25685;P61604;Q15388;O94763;Q99614;Q9NUG6;O14656;P45877;Q9NYU2;P08238;P17987;P08107;  
Q9NZD4;Q9UBK9;O75953;P07900;Q15185;P06748;P14625;P38646;P31689;Q99615;O75347;Q99471;O  
76031;P23284;P49368;Q16543;Q5F1R6;O75494;Q8WW22;O60884;P50502;Q96EY1;Q9HAV7;Q8TAA5}  
6643 Pathogen[ P03383] interacts with 44 human  
partners:{P08107;Q16543;Q9UHV9;O75494;P06748;P38646;P50502;P61604;Q9HAV7;P02511;P6293  
7;O00170;P07900;Q9NQP4;P31689;O75190;Q9UBS4;Q99733;Q9UBS3;O94763;Q13111;O75347;Q9UDY4  
;Q15388;Q99471;P14625;Q99615;Q15185;P11142;Q9Y375;Q8TAA5;P78371;O60925;P23284;O76031;  
Q9UBK9;P61758;P08238;O75953;Q13112;Q96EY1;Q53G26;P27797;Q9NZD4}  
6644 Pathogen[ P03410] interacts with 65 human  
partners:{Q9UDY4;P17987;O94763;Q99733;P49368;Q99832;P48643;Q53G26;Q15388;P49257;P5050  
2;P38646;Q16543;P08238;O14656;P25685;Q99614;P61604;P14625;Q8TAA5;P25686;P11142;P07900  
;O75953;P06748;Q9UBK9;Q9UBS3;Q5F1R6;Q99615;Q9NUG6;O76031;Q99471;P62937;P02489;P50990;  
P08107;O75190;O00170;P02511;Q58FF3;Q13111;P61758;P45877;Q13112;P05408;Q15185;Q9H173;Q  
9Y375;Q9NQP4;O60884;O75347;Q9UBS4;O60925;P78371;P31689;P23284;Q9UHV9;Q9HAV7;Q8WW22;Q9  
6EY1;P50991;Q9NYU2;O75494;Q9NZD4;P27797}  
6645 Pathogen[ P14075] interacts with 44 human  
partners:{O75953;Q9UBS3;Q16543;Q9HAV7;P31689;Q9Y375;P11142;O75347;P23284;Q99615;Q1538  
8;P61604;Q8TAA5;P78371;Q53G26;O75494;Q13111;Q9UDY4;P08238;P38646;O94763;Q15185;Q9UHV9  
;O76031;P07900;O00170;Q9UBK9;P50502;Q99733;P27797;Q9NQP4;P06748;P02511;P61758;O75190;  
P62937;P08107;O60925;Q9UBS4;Q13112;P14625;Q9NZD4;Q99471;Q96EY1}  
6646 Pathogen[ P0C206] interacts with 58 human  
partners:{Q13112;P48643;Q99733;Q9UDY4;P27797;Q5F1R6;Q13111;Q99615;Q53G26;Q9UBS4;Q9HAV  
7;Q15185;Q16543;P50991;O75494;P17987;O60884;Q99471;P38646;Q9UHV9;P50502;O60925;Q8WW22  
;P08238;Q58FF3;P07900;O14656;P49257;P23284;P08107;Q8TAA5;Q9Y375;Q15388;O75953;P49368;  
P61758;Q9UBS3;P25685;P45877;Q9UBK9;P06748;O00170;O75347;Q99614;P02511;O76031;Q9NZD4;P  
02489;Q96EY1;P62937;P11142;P78371;Q9NQP4;P31689;O94763;P61604;O75190;P14625}  
6647 Pathogen[ P03363] interacts with 51 human  
partners:{Q13112;O75190;P23284;O75953;Q99615;O75347;P62937;P54652;P07900;P50502;Q9Y37  
5;Q9UHV9;Q13111;Q15388;Q99733;Q9UBS3;Q9UDY4;Q5F1R6;Q9UBK9;Q99471;P06748;Q53G26;P50991  
;Q9NZN9;Q16543;O60925;P08107;P27797;O94763;Q9UBS4;P38646;P17987;Q8TAA5;P61758;O76031;  
Q15185;Q9NZD4;Q9NUG6;P25685;P78371;P02489;Q99614;Q9NQP4;Q96EY1;P08238;P48643;O00170;P  
11142;P61604;O75494;P49368}  
6648 [Cluster 605]GO:0004591+F molecular\_function [name] oxoglutarate dehydrogenase  
(succinyl-transferring) activity [def] "Catalysis of the reaction  
6649 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9ULD0}  
6650 Pathogen[ P0C214] interacts with 1 human partners:{Q9ULD0}  
6651 Pathogen[ P03346] interacts with 1 human partners:{Q9ULD0}  
6652 Pathogen[ Q85601] interacts with 1 human partners:{Q9ULD0}  
6653 Pathogen[ P14079] interacts with 1 human partners:{Q9ULD0}  
6654 Pathogen[ P03383] interacts with 1 human partners:{Q9ULD0}  
6655 Pathogen[ P03410] interacts with 1 human partners:{Q9ULD0}  
6656 Pathogen[ P14075] interacts with 1 human partners:{Q9ULD0}  
6657 Pathogen[ P0C206] interacts with 1 human partners:{Q9ULD0}  
6658 Pathogen[ P03363] interacts with 1 human partners:{Q9ULD0}  
6659 [Cluster 606]GO:0030957+F molecular\_function [name] Tat protein binding [def]  
"Interacting selectively and non-covalently with Tat, a viral transactivating regulatory  
protein from the human immunodeficiency virus, or the equivalent protein from another

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virus." [GOC
6660 Pathogen[ Q2Q067] interacts with 4 human partners:{P06748;P51532;Q12824;Q9P1T7}
6661 Pathogen[ P0C214] interacts with 5 human
partners:{P60709;Q12824;P06748;Q9P1T7;P51532}
6662 Pathogen[ P03346] interacts with 5 human
partners:{P06748;P51532;P60709;Q12824;Q9P1T7}
6663 Pathogen[ Q85601] interacts with 5 human
partners:{P60709;P51532;P06748;Q9P1T7;Q12824}
6664 Pathogen[ P14079] interacts with 5 human
partners:{P51532;P60709;P06748;Q9P1T7;Q12824}
6665 Pathogen[ P03383] interacts with 4 human partners:{P06748;Q12824;P51532;Q9P1T7}
6666 Pathogen[ P03410] interacts with 5 human
partners:{P06748;Q9P1T7;P51532;Q12824;P60709}
6667 Pathogen[ P14075] interacts with 4 human partners:{P51532;Q9P1T7;P06748;Q12824}
6668 Pathogen[ P0C206] interacts with 5 human
partners:{P60709;P51532;Q12824;P06748;Q9P1T7}
6669 Pathogen[ P03363] interacts with 5 human
partners:{P60709;P51532;P06748;Q9P1T7;Q12824}
6670 [Cluster 607]GO:0017137+F molecular_function [name] Rab GTPase binding [def]
"Interacting selectively and non-covalently with Rab protein, any member of the Rab
subfamily of the Ras superfamily of monomeric GTPases." [GOC
6671 Pathogen[ Q2Q067] interacts with 8 human
partners:{Q8IUD2;Q9HCH5;Q8TCI5;Q8NFW9;Q8TD16;O75154;Q96NA2;Q92597}
6672 Pathogen[ P0C214] interacts with 9 human
partners:{Q8NFW9;Q96NA2;Q8TCI5;Q9HCH5;Q92597;Q8TD16;Q96G01;Q8IUD2;O75154}
6673 Pathogen[ P03346] interacts with 16 human
partners:{Q96G01;Q8IUD2;Q96NA2;Q9HCH5;Q8IYJ3;Q8TDW5;Q92597;Q6ZP65;Q5JSH3;Q8TD16;Q8NFW
9;Q9ULV0;Q8TCI5;Q86YS3;O75154;Q9Y2J0}
6674 Pathogen[ Q85601] interacts with 12 human
partners:{Q8NFW9;O75154;Q5JSH3;Q86YS3;Q9HCH5;Q6ZP65;Q8TCI5;Q96G01;Q8TD16;Q92597;Q96NA
2;Q8IUD2}
6675 Pathogen[ P14079] interacts with 16 human
partners:{Q96NA2;Q8NEV8;Q9H1K0;Q8IYJ3;Q9HCH5;Q86YS3;Q92597;Q8IUD2;Q8NFW9;Q5JSH3;Q8TCI
5;Q15042;Q6ZP65;Q96G01;O75154;Q8TD16}
6676 Pathogen[ P03383] interacts with 6 human
partners:{Q9HCH5;Q92597;Q8TCI5;Q8IUD2;O75154;Q96NA2}
6677 Pathogen[ P03410] interacts with 19 human
partners:{Q9HCH5;Q5JSH3;O75154;Q9Y2J0;Q8TDW5;Q9ULV0;Q8TD16;Q8NFW9;Q86YS3;Q8IUD2;Q8NEV
8;Q96G01;Q9H1K0;Q8IYJ3;Q8TCI5;Q92597;Q6ZP65;Q96NA2;Q15042}
6678 Pathogen[ P14075] interacts with 6 human
partners:{Q9HCH5;Q96NA2;Q8IUD2;Q8TCI5;Q92597;O75154}
6679 Pathogen[ P0C206] interacts with 15 human
partners:{Q8TCI5;Q92597;O75154;Q9Y2J0;Q9H1K0;Q8NFW9;Q8IUD2;Q6ZP65;Q8IYJ3;Q96NA2;Q5JSH
3;Q9HCH5;Q86YS3;Q8TD16;Q96G01}
6680 Pathogen[ P03363] interacts with 9 human
partners:{Q8NFW9;Q92597;Q8TCI5;Q6ZP65;O75154;Q96NA2;Q9HCH5;Q8TD16;Q8IUD2}
6681 [Cluster 608]GO:0051019+F molecular_function [name] mitogen-activated protein kinase
binding [def] "Interacting selectively and non-covalently with a mitogen-activated
protein kinase." [GOC
6682 Pathogen[ Q2Q067] interacts with 4 human partners:{P17544;Q15025;Q13233;P78347}
6683 Pathogen[ P0C214] interacts with 4 human partners:{P17544;Q13233;P78347;Q15025}
6684 Pathogen[ P03346] interacts with 5 human
partners:{P78347;Q15025;P17544;Q13233;Q14596}
6685 Pathogen[ Q85601] interacts with 5 human
partners:{Q14596;Q15025;P17544;Q13233;P78347}
6686 Pathogen[ P14079] interacts with 4 human partners:{Q14596;Q15025;P17544;P78347}
6687 Pathogen[ P03383] interacts with 4 human partners:{P17544;Q13233;P78347;Q15025}
6688 Pathogen[ P03410] interacts with 5 human
partners:{Q15025;Q13233;Q14596;P17544;P78347}
6689 Pathogen[ P14075] interacts with 4 human partners:{P78347;Q15025;Q13233;P17544}
6690 Pathogen[ P0C206] interacts with 5 human
partners:{P17544;Q14596;Q13233;Q15025;P78347}
6691 Pathogen[ P03363] interacts with 4 human partners:{Q15025;P17544;P78347;Q13233}
6692 [Cluster 609]GO:0035064+F molecular_function [name] methylated histone residue binding
[def] "Interacting selectively and non-covalently with a methylated residue on a histone
protein. Histones are any of a group of water-soluble proteins found in association with
the DNA of plant and animal chromosomes." [GOC
6693 Pathogen[ Q2Q067] interacts with 29 human
partners:{Q9UPP1;P55895;Q9NXR8;Q12888;Q8WYH8;O43159;O75151;Q9HC52;Q96T88;O00257;P4269
5;O95931;Q9UNL4;Q8N5Y2;Q15022;Q86XI2;Q99549;Q96ES7;O15164;Q9H160;O75164;Q969R5;O14646
;Q9HCK8;Q86YI8;P45973;Q9Y468;Q9H7E2;Q14781}
6694 Pathogen[ P0C214] interacts with 27 human
partners:{Q86XI2;Q15022;O43159;P42695;O95931;Q9UNL4;O75164;O75151;Q9Y468;Q96T88;P5589
5;Q99549;O00257;Q9H160;Q9HCK8;Q86YI8;Q14781;O15164;Q9H7E2;P45973;Q12888;O14646;Q8WYH8
;Q969R5;Q96ES7;Q9UPP1;Q9HC52}
6695 Pathogen[ P03346] interacts with 32 human

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partners:{Q12888;Q14781;Q96ES7;P45973;Q9Y657;Q9UNL4;Q8WYH8;Q9H7E2;Q15291;O43159;P55895;Q9HC52;O95931;O00257;O14646;Q86XI2;O75151;Q969R5;Q8N5Y2;Q15022;O75164;Q9HCK8;Q9UPP1;Q9Y468;P42695;Q9H7Z6;Q99549;Q86YI8;Q9H160;O15164;Q9NXR8;Q96T88}

6696 Pathogen[ Q85601] interacts with 30 human  
partners:{Q8N5Y2;Q9H7E2;O75151;Q9Y468;O95931;P42695;Q9H7Z6;Q9UNL4;Q96ES7;O43159;O14646;Q99549;O15164;Q12888;Q969R5;Q15022;P45973;Q96T88;Q86YI8;Q9UPP1;Q9HCK8;Q8WYH8;O75164;Q86XI2;O00257;Q9NXR8;Q9H160;P55895;Q9HC52;Q14781}

6697 Pathogen[ P14079] interacts with 26 human  
partners:{O15164;O75151;Q9HC52;Q99549;Q9Y468;Q9UNL4;O14646;O95931;P45973;O00257;Q14781;Q8N5Y2;Q969R5;Q9UPP1;Q9HCK8;Q96ES7;Q86YI8;Q9H7E2;O43159;Q86XI2;Q12888;P42695;Q15022;Q8WYH8;Q9Y657;Q9H160}

6698 Pathogen[ P03383] interacts with 24 human  
partners:{Q12888;Q86XI2;Q96ES7;Q9H7E2;O00257;Q9HC52;O95931;Q9UNL4;O14646;Q8WYH8;O75151;Q15022;O75164;O43159;Q99549;P45973;Q9H160;P55895;Q86YI8;Q9HCK8;Q969R5;Q9UPP1;Q9Y468;Q14781}

6699 Pathogen[ P03410] interacts with 28 human  
partners:{Q9UPP1;Q8WYH8;Q99549;O14646;Q9UNL4;O95931;P42695;P55895;P45973;Q9Y468;Q96ES7;O43159;O75151;Q9NXR8;Q9H160;Q9HCK8;Q9H7E2;Q12888;Q9Y657;O00257;Q14781;Q86XI2;O75164;Q8N5Y2;Q969R5;Q15022;Q9HC52;Q86YI8}

6700 Pathogen[ P14075] interacts with 24 human  
partners:{Q14781;O14646;Q969R5;Q86XI2;Q9UPP1;Q9Y468;O95931;P45973;O00257;Q9HCK8;Q9HC52;Q86YI8;Q99549;Q9UNL4;Q9H7E2;O43159;Q15022;Q12888;Q8WYH8;Q96ES7;Q9H160;P55895;O75151;O75164}

6701 Pathogen[ P0C206] interacts with 32 human  
partners:{Q9Y468;Q9HCK8;O43159;P45973;Q9HC52;Q8WYH8;Q9H7E2;Q9UPP1;P42695;O15164;Q9NXR8;Q9H160;Q14781;O75151;O14646;Q12888;Q86XI2;Q96T88;O95931;P55895;Q96ES7;Q9Y657;Q15022;Q86YI8;Q969R5;O75164;O00257;Q9UK53;Q99549;Q8N5Y2;Q9UNL4;Q9H7Z6}

6702 Pathogen[ P03363] interacts with 25 human  
partners:{Q9H160;Q8N5Y2;Q9Y468;Q14781;Q15022;Q15291;Q9HC52;P45973;Q86XI2;Q9H7E2;Q9Y657;O75164;Q9UNL4;Q99549;Q9HCK8;O95931;O14646;P42695;O43159;Q96T88;P55895;Q96ES7;O00257;Q8WYH8;Q12888}

6703 [Cluster 610]GO:0005159+F molecular\_function [name] insulin-like growth factor receptor binding [def] "Interacting selectively and non-covalently with the insulin-like growth factor receptor." [GOC]

6704 Pathogen[ Q2Q067] interacts with 4 human partners:{P61981;O14508;Q04917;P27986}

6705 Pathogen[ P0C214] interacts with 5 human  
partners:{Q04917;O14508;P61981;O15524;P27986}

6706 Pathogen[ P03346] interacts with 5 human  
partners:{O15524;Q04917;O14508;P61981;P27986}

6707 Pathogen[ Q85601] interacts with 4 human partners:{P61981;Q04917;O14508;P27986}

6708 Pathogen[ P14079] interacts with 3 human partners:{Q04917;P61981;O14508}

6709 Pathogen[ P03383] interacts with 2 human partners:{P27986;P61981}

6710 Pathogen[ P03410] interacts with 4 human partners:{P27986;Q04917;P61981;O14508}

6711 Pathogen[ P14075] interacts with 2 human partners:{P61981;P27986}

6712 Pathogen[ P0C206] interacts with 5 human  
partners:{Q04917;O15524;P27986;O14508;P61981}

6713 Pathogen[ P03363] interacts with 5 human  
partners:{O15524;P61981;Q04917;O14508;P27986}

6714 [Cluster 611]GO:0004483+F molecular\_function [name] mRNA (nucleoside-2'-O-)-methyltransferase activity [def] "Catalysis of the reaction

6715 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8N1G2}

6716 Pathogen[ P0C214] interacts with 1 human partners:{Q8N1G2}

6717 Pathogen[ P03346] interacts with 1 human partners:{Q8N1G2}

6718 Pathogen[ Q85601] interacts with 1 human partners:{Q8N1G2}

6719 Pathogen[ P14079] interacts with 1 human partners:{Q8N1G2}

6720 Pathogen[ P03383] interacts with 1 human partners:{Q8N1G2}

6721 Pathogen[ P03410] interacts with 1 human partners:{Q8N1G2}

6722 Pathogen[ P14075] interacts with 1 human partners:{Q8N1G2}

6723 Pathogen[ P0C206] interacts with 1 human partners:{Q8N1G2}

6724 Pathogen[ P03363] interacts with 1 human partners:{Q8N1G2}

6725 [Cluster 612]GO:0004742+F molecular\_function [name] dihydrolipoyllysine-residue acetyltransferase activity [def] "Catalysis of the reaction

6726 Pathogen[ Q2Q067] interacts with 1 human partners:{P10515}

6727 Pathogen[ P0C214] interacts with 1 human partners:{P10515}

6728 Pathogen[ P03346] interacts with 1 human partners:{P10515}

6729 Pathogen[ Q85601] interacts with 1 human partners:{P10515}

6730 Pathogen[ P14079] interacts with 1 human partners:{P10515}

6731 Pathogen[ P03383] interacts with 1 human partners:{P10515}

6732 Pathogen[ P03410] interacts with 1 human partners:{P10515}

6733 Pathogen[ P14075] interacts with 1 human partners:{P10515}

6734 Pathogen[ P0C206] interacts with 1 human partners:{P10515}

6735 Pathogen[ P03363] interacts with 1 human partners:{P10515}

6736 [Cluster 613]GO:0031545+F molecular\_function [name] peptidyl-proline 4-dioxygenase activity [def] "Catalysis of the reaction

6737 Pathogen[ Q2Q067] interacts with 3 human partners:{Q96KS0;Q9H6Z9;Q9GZT9}

6738 Pathogen[ P0C214] interacts with 3 human partners:{Q96KS0;Q9H6Z9;Q9GZT9}

6739 Pathogen[ P03346] interacts with 3 human partners:{Q9GZT9;Q96KS0;Q9H6Z9}  
6740 Pathogen[ Q85601] interacts with 3 human partners:{Q9H6Z9;Q9GZT9;Q96KS0}  
6741 Pathogen[ P14079] interacts with 3 human partners:{Q9GZT9;Q9H6Z9;Q96KS0}  
6742 Pathogen[ P03383] interacts with 2 human partners:{Q96KS0;Q9H6Z9}  
6743 Pathogen[ P03410] interacts with 3 human partners:{Q96KS0;Q9H6Z9;Q9GZT9}  
6744 Pathogen[ P14075] interacts with 3 human partners:{Q96KS0;Q9GZT9;Q9H6Z9}  
6745 Pathogen[ P0C206] interacts with 3 human partners:{Q96KS0;Q9GZT9;Q9H6Z9}  
6746 Pathogen[ P03363] interacts with 1 human partners:{Q9H6Z9}  
6747 [Cluster 614]GO:0004373+F molecular\_function [name] glycogen (starch) synthase  
activity [def] "Catalysis of the reaction  
6748 Pathogen[ Q2Q067] interacts with 2 human partners:{P54840;P13807}  
6749 Pathogen[ P0C214] interacts with 2 human partners:{P54840;P13807}  
6750 Pathogen[ P03346] interacts with 2 human partners:{P13807;P54840}  
6751 Pathogen[ Q85601] interacts with 2 human partners:{P13807;P54840}  
6752 Pathogen[ P14079] interacts with 2 human partners:{P13807;P54840}  
6753 Pathogen[ P03383] interacts with 2 human partners:{P13807;P54840}  
6754 Pathogen[ P03410] interacts with 2 human partners:{P54840;P13807}  
6755 Pathogen[ P14075] interacts with 2 human partners:{P54840;P13807}  
6756 Pathogen[ P0C206] interacts with 2 human partners:{P13807;P54840}  
6757 Pathogen[ P03363] interacts with 2 human partners:{P13807;P54840}  
6758 [Cluster 615]GO:0003964+F molecular\_function [name] RNA-directed DNA polymerase  
activity [def] "Catalysis of the reaction  
6759 Pathogen[ Q2Q067] interacts with 1 human partners:{O14746}  
6760 Pathogen[ P0C214] interacts with 1 human partners:{O14746}  
6761 Pathogen[ P03346] interacts with 1 human partners:{O14746}  
6762 Pathogen[ Q85601] interacts with 1 human partners:{O14746}  
6763 Pathogen[ P14079] interacts with 1 human partners:{O14746}  
6764 Pathogen[ P03383] interacts with 1 human partners:{O14746}  
6765 Pathogen[ P03410] interacts with 2 human partners:{O14746;P63135}  
6766 Pathogen[ P14075] interacts with 1 human partners:{O14746}  
6767 Pathogen[ P0C206] interacts with 1 human partners:{O14746}  
6768 Pathogen[ P03363] interacts with 1 human partners:{O14746}  
6769 [Cluster 616]GO:0034513+F molecular\_function [name] box H/ACA snoRNA binding [def]  
"Interacting selectively and non-covalently with box H/ACA small nucleolar RNA." [GOC  
6770 Pathogen[ Q2Q067] interacts with 1 human partners:{Q14978}  
6771 Pathogen[ P0C214] interacts with 1 human partners:{Q14978}  
6772 Pathogen[ P03346] interacts with 1 human partners:{Q14978}  
6773 Pathogen[ Q85601] interacts with 1 human partners:{Q14978}  
6774 Pathogen[ P14079] interacts with 1 human partners:{Q14978}  
6775 Pathogen[ P03383] interacts with 1 human partners:{Q14978}  
6776 Pathogen[ P03410] interacts with 1 human partners:{Q14978}  
6777 Pathogen[ P14075] interacts with 1 human partners:{Q14978}  
6778 Pathogen[ P0C206] interacts with 1 human partners:{Q14978}  
6779 Pathogen[ P03363] interacts with 1 human partners:{Q14978}  
6780 [Cluster 617]GO:0016798+F molecular\_function [name] hydrolase activity, acting on  
glycosyl bonds [def] "Catalysis of the hydrolysis of any glycosyl bond." [GOC  
6781 Pathogen[ Q2Q067] interacts with 11 human  
partners:{Q9UIF7;Q969S2;Q8NFI3;P35573;O43598;O15527;P78549;Q13569;Q8WVR8;P13051;Q53HV  
7}  
6782 Pathogen[ P0C214] interacts with 13 human  
partners:{Q8WVR8;Q8NFI3;Q9H227;Q53HV7;Q9Y3R4;P35573;Q9UIF7;O43598;P78549;O15527;Q1356  
9;P13051;P16278}  
6783 Pathogen[ P03346] interacts with 13 human  
partners:{O43598;Q9UIF7;P35573;Q8NFI3;Q969S2;P16278;Q53HV7;Q8WVR8;P13051;P78549;Q1356  
9;Q8WVR8;O15527}  
6784 Pathogen[ Q85601] interacts with 10 human  
partners:{O15527;O43598;Q969S2;P13051;Q96FI4;P35573;Q53HV7;Q13569;Q9UIF7;P78549}  
6785 Pathogen[ P14079] interacts with 26 human  
partners:{Q8TAT5;P16278;Q9UIF7;P04066;P54802;P35475;O43598;Q9NTJ4;Q8NFI3;O15527;P7854  
9;P06280;P54803;Q32M88;O60502;P35573;Q969S2;Q96FI4;Q8WVR8;Q9Y3R4;Q53HV7;P17050;Q13569  
;Q8WVR8;P17405;P13051}  
6786 Pathogen[ P03383] interacts with 7 human  
partners:{O15527;Q53HV7;P35573;O43598;Q13569;Q8WVR8;P13051}  
6787 Pathogen[ P03410] interacts with 23 human  
partners:{P54803;Q96FI4;Q8NFI3;P04066;O60502;P54802;P35573;P16278;Q8TAT5;P78549;Q53HV  
7;Q9NTJ4;O15527;Q13569;Q8WVR8;Q969S2;Q9Y3R4;P13051;Q32M88;O43598;P17405;Q8WVR8;Q9UIF7  
}  
6788 Pathogen[ P14075] interacts with 9 human  
partners:{P13051;O43598;Q8WVR8;O15527;Q53HV7;Q9UIF7;P35573;Q8NFI3;Q13569}  
6789 Pathogen[ P0C206] interacts with 16 human  
partners:{O43598;O15527;Q8NFI3;Q53HV7;Q13569;Q9Y3R4;Q8WVR8;Q8TAT5;Q96FI4;Q969S2;Q8WVR  
8;P16278;P13051;Q9UIF7;P35573;P78549}  
6790 Pathogen[ P03363] interacts with 11 human  
partners:{O15527;Q96FI4;P13051;Q8NFI3;Q9UIF7;Q13569;Q8WVR8;P35573;O43598;Q969S2;Q53HV  
7}  
6791 [Cluster 618]GO:0016651+F molecular\_function [name] oxidoreductase activity, acting on

NADH or NADPH [def] "Catalysis of an oxidation-reduction (redox) reaction in which NADH or NADPH acts as a hydrogen or electron donor and reduces a hydrogen or electron acceptor." [GOC

6792 Pathogen[ Q2Q067] interacts with 4 human partners:{075489;075251;075306;Q9BQ95}

6793 Pathogen[ P0C214] interacts with 7 human partners:{075306;P28331;Q16718;075489;Q9BQ95;075251;Q16698}

6794 Pathogen[ P03346] interacts with 4 human partners:{075489;075251;075306;Q9BQ95}

6795 Pathogen[ Q85601] interacts with 2 human partners:{075306;Q9BQ95}

6796 Pathogen[ P14079] interacts with 8 human partners:{Q9BQ95;O43181;075306;Q6P2C0;075251;075489;Q16718;P03901}

6797 Pathogen[ P03383] interacts with 4 human partners:{075251;075489;Q9BQ95;075306}

6798 Pathogen[ P03410] interacts with 8 human partners:{075251;Q6P2C0;075489;Q9BQ95;O43181;Q16718;075306;P03901}

6799 Pathogen[ P14075] interacts with 4 human partners:{075306;075251;Q9BQ95;075489}

6800 Pathogen[ P0C206] interacts with 5 human partners:{Q6P2C0;075251;075306;075489;Q9BQ95}

6801 Pathogen[ P03363] interacts with 1 human partners:{Q9BQ95}

6802 [Cluster 619]GO:0017174+F molecular\_function [name] glycine N-methyltransferase activity [def] "Catalysis of the reaction

6803 Pathogen[ Q2Q067] interacts with 1 human partners:{Q14749}

6804 Pathogen[ P0C214] interacts with 1 human partners:{Q14749}

6805 Pathogen[ P03346] interacts with 1 human partners:{Q14749}

6806 Pathogen[ Q85601] interacts with 1 human partners:{Q14749}

6807 Pathogen[ P14079] interacts with 1 human partners:{Q14749}

6808 Pathogen[ P03383] interacts with 1 human partners:{Q14749}

6809 Pathogen[ P03410] interacts with 1 human partners:{Q14749}

6810 Pathogen[ P14075] interacts with 1 human partners:{Q14749}

6811 Pathogen[ P0C206] interacts with 1 human partners:{Q14749}

6812 Pathogen[ P03363] interacts with 1 human partners:{Q14749}

6813 [Cluster 620]GO:0035198+F molecular\_function [name] miRNA binding [def] "Interacting selectively and non-covalently with a microRNA, a 21-23 nucleotide RNA that is processed from a stem-loop RNA precursor (pre-miRNA) that is encoded within plant and animal genomes." [PMID

6814 Pathogen[ Q2Q067] interacts with 3 human partners:{Q8TCS8;Q9H9Z2;Q01860}

6815 Pathogen[ P0C214] interacts with 3 human partners:{Q8TCS8;Q9H9Z2;Q01860}

6816 Pathogen[ P03346] interacts with 4 human partners:{Q01860;Q9BWF3;Q8TCS8;Q9H9Z2}

6817 Pathogen[ Q85601] interacts with 3 human partners:{Q8TCS8;Q9H9Z2;Q01860}

6818 Pathogen[ P14079] interacts with 4 human partners:{Q06413;Q9H9Z2;Q01860;Q8TCS8}

6819 Pathogen[ P03383] interacts with 3 human partners:{Q9H9Z2;Q8TCS8;Q01860}

6820 Pathogen[ P03410] interacts with 3 human partners:{Q8TCS8;Q01860;Q9H9Z2}

6821 Pathogen[ P14075] interacts with 3 human partners:{Q01860;Q9H9Z2;Q8TCS8}

6822 Pathogen[ P0C206] interacts with 3 human partners:{Q8TCS8;Q01860;Q9H9Z2}

6823 Pathogen[ P03363] interacts with 3 human partners:{Q9BWF3;Q9H9Z2;Q01860}

6824 [Cluster 621]GO:0003824+F molecular\_function [name] catalytic activity [def] "Catalysis of a biochemical reaction at physiological temperatures. In biologically catalyzed reactions, the reactants are known as substrates, and the catalysts are naturally occurring macromolecular substances known as enzymes. Enzymes possess specific binding sites for substrates, and are usually composed wholly or largely of protein, but RNA that has catalytic activity (ribozyme) is often also regarded as enzymatic." [ISBN

6825 Pathogen[ Q2Q067] interacts with 82 human partners:{P78346;Q9H0C8;P07195;Q8WY54;Q9H9T3;P30419;Q8N0Y7;Q14674;P30793;Q9P0M2;O95243;P22033;P19367;Q9UIF7;Q7Z2E3;Q96C86;P05062;P30084;Q969S2;P07954;P49789;Q8N8U2;Q9NQE9;P37837;Q96AB3;Q96DP5;O15355;P22557;P35573;P21953;P13196;P60174;P07902;P06746;P29372;P49356;P34896;P09972;P54840;P09467;Q9UQ84;P18669;Q16719;Q9HD40;P13807;P07814;Q9GZX7;O15527;P13984;P40925;P12956;Q9P2R7;P39748;Q9Y2P8;P15259;Q9BYZ2;Q9Y697;O95865;P78549;P07738;P35813;P04053;O75688;Q96NY9;P35269;P40926;P00338;Q7Z4H3;P16455;Q9NP87;P49593;P11172;P27815;Q14689;Q9HC16;P32929;P07864;Q14442;O43708;Q15750;P28715;O15297}

6826 Pathogen[ P0C214] interacts with 152 human partners:{Q16795;Q04446;O95243;Q9GZZ9;P30084;Q14527;Q8IX04;Q9Y617;O60346;P35813;Q9NSE4;Q96C86;P22695;O95045;P11177;P49902;P07864;P15259;Q7Z4H3;P49789;P06746;Q5I0G3;Q96GK7;P53396;P35269;P27815;P07814;P42898;P07954;Q9H227;Q9P0M2;Q96NY9;P29401;P34897;Q14689;Q96DP5;P12277;P11172;Q9Y315;Q9HA92;Q9Y232;Q8N819;P40939;Q9Y3R4;Q6ZMR3;O95396;P40926;O60551;P22557;P51854;P35573;P13196;Q8WXG1;Q9BXD5;Q13057;Q9Y3Z3;P05062;P32929;Q9P2R7;O60825;P50747;Q8N8U2;P28715;Q9Y2P8;Q9HC16;P30793;P37837;P09467;Q13011;Q96AT9;P22033;Q16831;P14618;Q9Y697;O95865;P21953;P34896;P49356;O14832;P52788;Q6P587;Q7Z2E3;Q86XE5;Q9UIF7;O00154;Q9BWD1;Q93100;Q86WU2;O15382;P19623;P19367;Q96AB3;P23921;P13984;P09972;P16455;Q9P0J1;Q9H9T3;Q15750;P54687;Q07343;O00442;Q9NQE9;O15297;Q13126;Q8N3J5;Q8WY54;P07902;P54840;P39748;P04053;Q96I99;Q8N0Y7;P42765;Q9GZX7;O15305;P78549;P49593;A6NK58;P29372;P30419;Q9UQ84;Q96BT7;O76083;Q15274;Q9HD40;P16118;O75688;P04424;P60174;Q9NP87;P35520;O43708;O15527;P07738;Q9BYZ2;Q9H0C8;Q8NFF5;P46020;P78346;O00757;P13807;P31939;P11586;Q9P2J9;P12956;P07195;Q16719;P30566;Q16773;P16278;Q14674}

6827 Pathogen[ P03346] interacts with 86 human partners:{Q9Y3Z3;Q96AB3;P09972;Q9H0C8;O60346;Q9P0M2;P35813;P28715;P13807;P12956;P78346;Q8WY54;Q96C86;Q9NQE9;P07814;Q14527;Q969U6;P07738;P19367;P49789;Q86WU2;P60174;Q9UIF7;Q9Y697;P09467;P22557;P35573;P13196;P49593;Q8N8U2;Q96NY9;P37837;Q969S2;P16278;P18669;P10144;Q96DP5;Q9Y2P8;P13984;P49356;Q8WV3;Q8N0Y7;Q7Z4H3;Q9H9T3;Q9BWD1;P27815;P29372;O

- 15297;P32929;P40926;P53611;O95865;O75688;Q9HD40;Q16719;Q15750;P00338;O43708;Q96BT7;P78549;P35269;P54840;P04053;Q9UQ84;P07195;O95243;P42765;P15259;O15355;Q7Z2E3;Q14442;Q9Y6F1;Q9Y232;P05062;P11172;Q9NP87;P39748;P40925;P07954;O15527;P06746;Q14674;A0AVT1;Q14689;P30084;Q9BYZ2}
- 6828 Pathogen[ Q85601] interacts with 97 human  
partners: {P10144;O15527;P60174;O60346;O75688;P13807;P78346;Q7Z4H3;O43708;Q15750;Q14689;Q6ZMR3;Q9UQ84;P49789;Q969S2;Q9H0C8;Q9HD40;P49593;P16455;Q16719;Q9H9T3;Q9HC16;P07814;P18669;Q9Y697;P27815;P11172;O60825;Q9BXD5;Q8N8U2;P37837;Q9GZX7;O95243;O00757;Q9UGP5;Q14674;O60551;P13196;P21953;P05062;Q9P2R7;P16118;Q96FI4;P15259;P30793;P07954;Q96NY9;Q96C86;P28715;Q9Y6F1;P07864;O15355;P13984;P35573;O95045;P34896;P14618;P09972;Q9BYZ2;Q96AB3;O15297;P35269;Q9Y2P8;P22033;P49356;P09467;Q04446;P40925;Q9P0M2;Q8WY54;P04053;P07195;Q9UIF7;P07902;Q7Z2E3;P06746;P54840;Q9BWD1;Q9NP87;Q8N0Y7;P39748;P78549;P30419;P07738;P35813;Q14527;P00338;P30084;O15382;P40926;Q9NQE9;P12956;O95865;Q8N3J5;P32929;P29372;P19367}
- 6829 Pathogen[ P14079] interacts with 160 human  
partners: {Q5VV42;P51854;P22695;Q8NBV4;P15259;P78346;Q6P587;O00442;Q8TAT5;P16278;O14841;P42357;P21953;P13196;Q9UIF7;P07954;Q8NFF5;P28715;P49593;Q96AB3;Q14442;O15305;Q96NY9;P35269;O15297;P04066;P00338;P22234;Q9UGP5;P31939;Q9Y617;P31941;Q9P0M2;P13807;O15514;Q9Y315;Q16831;P35475;P29372;P09972;Q93100;P11172;Q9NTJ4;P22557;P29401;Q9HC16;O43813;Q96C23;P51606;Q15750;P30084;O43708;O60346;Q96C86;Q14674;P16455;O95954;P34897;Q32NB8;Q9P2R7;O15527;P78549;Q8TDX5;P30793;P07738;P06280;Q69YN2;P07195;P35813;Q8N0X4;Q9GZX7;Q8WY54;P12956;Q6ZMR3;P54803;Q86WU2;Q9Y3Z3;Q9H9T3;Q32M88;Q16719;O14832;O60502;Q13057;O95243;Q9H0C8;P35573;Q9Y697;Q969S2;Q13510;P07864;O60551;P30419;O95045;P16930;P49356;Q8N8U2;Q96FI4;P22033;Q14689;Q9HA92;Q96B70;P32929;Q96GK7;Q2TBE0;P49902;Q9BXD5;Q9Y3R4;Q9NP87;Q9HAC7;P17050;P06746;P27815;P13984;P30039;Q96SZ6;P04053;P19623;O75688;Q9NSE4;O15067;P18669;Q9NS86;P07902;P49773;Q9Y2P8;Q96CD2;Q9Y234;P09467;P04424;O15382;Q9HD40;P40925;P49789;P54840;O15355;Q86XE5;Q9BYZ2;Q7Z2E3;Q15274;A6NK58;Q6ZV70;Q96PZ2;Q8WVB3;Q9UQ84;P10144;Q9Y6F1;Q8N0Y7;P07814;Q96DP5;Q9NQE9;Q96EY9;P46020;O95865;P39748;P34896;Q8WXG1;P42898;Q6P2I3;P37837;Q7Z4H3}
- 6830 Pathogen[ P03383] interacts with 51 human  
partners: {Q7Z2E3;P06746;P40926;O95865;Q9Y2P8;Q9H0C8;P35269;Q9HD40;P49789;P19367;P00338;O15527;Q9BYZ2;P07902;P07864;P34896;P18669;Q9P2R7;P13807;P09467;P09972;P40925;P37837;P35573;O15297;P35813;Q9Y697;Q16719;P07738;P29372;O95243;Q96AB3;P13984;Q14674;P07195;Q6ZMR3;P07814;P22033;Q8N0Y7;O15355;Q96C86;Q8WY54;Q96DP5;P54840;P11172;P78346;P15259;Q9H9T3;P12956;Q15750;Q96NY9}
- 6831 Pathogen[ P03410] interacts with 170 human  
partners: {P30039;P54803;Q96DP5;Q9P2R7;Q9NS86;O95045;Q9BYZ2;Q15274;P30084;Q96FI4;Q9Y315;Q2TBE0;P51606;O15355;Q96AB3;Q96EY9;P10144;P35813;Q9NSE4;Q8N3J5;P78346;P04066;O00442;P37837;Q8NFF5;P54840;Q96PZ2;O60551;Q13057;P49356;P16118;P46020;Q13011;Q69YN2;O60502;Q15750;Q16831;P04053;Q16719;P32929;Q8WY54;P07902;O95954;P04424;Q04446;P35573;Q9BXD5;Q6ZMR3;P16278;Q14689;O95865;P11172;P06746;P30419;P21953;P39748;Q9H9T3;Q9Y697;Q6P2I3;Q14442;P30793;P19623;P05062;P52788;Q9Y617;P28715;Q8TAT5;P78549;P09467;O15514;P07195;Q14674;Q9H0C8;A6NK58;Q8WXG1;Q9Y6F1;O00757;P42765;O14841;P22234;O75688;O95243;O43708;Q7Z2E3;Q9HC16;P22695;Q93100;Q9UGP5;P22557;O75600;P12956;Q9P0M2;O00154;Q13510;Q8TDX5;Q9Y234;P09972;P49789;O15297;P49773;Q9NTJ4;Q96B70;P07738;O15527;P07954;P00338;Q9HA92;O15382;Q96CD2;P30566;Q96NY9;P16455;Q8N0X4;P13807;O15067;P42898;Q8N0Y7;P15259;Q96C23;P31939;Q86XE5;P35269;O14832;Q9GZX7;Q9NRW3;P18669;P53611;Q96CN7;O15305;Q6ZV70;Q7Z4H3;P51854;P40926;Q969U6;Q9HD40;P31941;P63135;O60346;Q9NQE9;Q8WVB3;P13984;P49593;Q8N8U2;Q969S2;P07864;P07814;Q9Y3R4;P40925;Q9NP87;Q9UQ84;Q32M88;Q9Y3Z3;P16930;Q9Y2P8;Q96C86;P23921;P13196;P27815;Q6NTF7;P29372;P34897;Q6P587;P34896;Q9UIF7;P49902;P22033;Q8NBV4;Q9NQ88;Q96GK7;Q86WU2}
- 6832 Pathogen[ P14075] interacts with 65 human  
partners: {O15297;Q7Z2E3;P40925;Q9NQE9;P35813;Q16719;P13984;P12956;Q14442;Q15750;P49902;P11172;Q86XE5;P34896;O15527;Q93100;P18669;P06746;P19367;Q9UIF7;Q13510;P40926;O95045;P54840;Q9BXD5;Q13057;P07195;Q9H0C8;Q9Y315;P16118;P07902;Q9Y2P8;O95865;P22033;Q9HD40;Q96AB3;Q96NY9;P35269;P07864;P78346;P35573;Q8WY54;P00338;Q9H9T3;P09972;P49789;P15259;O14832;Q14674;O95243;Q96C86;Q9BYZ2;P13807;P30793;P07738;P37837;P29372;Q9NSE4;P09467;O15355;Q96DP5;Q8N0Y7;P07814;Q9P2R7;Q9Y697}
- 6833 Pathogen[ P0C206] interacts with 141 human  
partners: {Q9Y234;Q16831;P10144;Q9Y232;Q9NSE4;P07195;P07814;P05062;P51854;Q9NQE9;P28715;Q17RS7;Q6ZMR3;P07864;Q9HA92;Q93100;Q9UQ84;P60174;Q96C86;Q8WY54;O15527;P30419;Q9H9T3;O15382;Q04446;Q13057;P09467;Q9Y315;Q9Y697;Q9HD40;O14832;Q8N8U2;Q7Z4H3;Q14442;Q86WU2;P06746;P21953;Q9P2R7;P34897;P49902;P31939;P30793;P19367;O95045;P13984;Q9UGP5;O95865;P13807;Q9Y6F1;P22695;P49593;P46020;O95954;O15355;P54840;P11172;P27815;Q9Y3R4;Q9Y3R4;Q96NY9;O75688;P30084;O15514;P35269;P04053;Q9GZX7;Q16719;Q86XE5;Q8WVB3;O43708;Q96C23;Q9P0M2;P34896;P22557;P49789;P32929;Q8TAT5;P40925;O00757;P30039;P40926;Q6PIY2;Q8N0Y7;Q9BWD1;Q9Y2P8;P07902;Q9NP87;Q96FI4;P31941;Q96AB3;Q14527;O60825;O60551;Q6NTF7;Q969S2;Q15274;Q14674;P16278;P09972;P16118;Q9BYZ2;O60346;Q9HC16;Q96EY9;Q15750;Q14689;P13196;Q9NS86;P39748;P07738;A6NK58;P07954;O15297;O8WXG1;Q9BXD5;P22033;P49356;P12956;P00338;P78346;P53611;Q96GK7;Q8N3J5;P16455;Q7Z2E3;Q96DP5;P29372;P37837;O95243;Q9UIF7;Q969U6;Q8NBV4;P18669;O95396;P14618;P15259;P35813;P29401;P35573;P78549;Q9H0C8}
- 6834 Pathogen[ P03363] interacts with 64 human  
partners: {P12956;Q9HD40;P13807;O15355;O15527;Q6PIY2;P18669;P13984;P22314;P40925;Q96AB3;Q96BT7;P09972;Q9BWD1;Q9Y2P8;Q96FI4;P11172;Q9BYZ2;Q14689;Q9Y697;P10144;P27815;Q7Z4H3;Q15750;Q9P0M2;P35269;P29372;P04053;Q7Z2E3;Q14527;Q9H0C8;P06746;Q8N0Y7;P37837;Q9UIF7;P54840;P49789;O95243;Q9NP87;Q9Y3Z3;Q14674;Q9UBE0;O95865;Q9NQE9;P13196;Q8WVB3;P78346;O

15297;Q969U6;P07814;Q96NY9;Q96C86;P35573;Q9H9T3;O43708;O75688;Q969S2;P15259;Q9Y6F1;Q8WY54;A0AVT1;Q9Y315;Q9BXD5;Q8N8U2}

6835 [Cluster 622]GO:0019104+F molecular\_function [name] DNA N-glycosylase activity [def] "Catalysis of the removal of damaged bases by cleaving the N-C1' glycosidic bond between the target damaged DNA base and the deoxyribose sugar. The reaction releases a free base and leaves an apurinic/aprimidinic (AP) site." [GOC

6836 Pathogen[ Q2Q067] interacts with 3 human partners: {O15527;P78549;Q53HV7}

6837 Pathogen[ P0C214] interacts with 3 human partners: {Q53HV7;P78549;O15527}

6838 Pathogen[ P03346] interacts with 3 human partners: {Q53HV7;P78549;O15527}

6839 Pathogen[ Q85601] interacts with 4 human partners: {O15527;Q96FI4;Q53HV7;P78549}

6840 Pathogen[ P14079] interacts with 5 human partners: {Q8TAT5;O15527;P78549;Q96FI4;Q53HV7}

6841 Pathogen[ P03383] interacts with 2 human partners: {O15527;Q53HV7}

6842 Pathogen[ P03410] interacts with 5 human partners: {Q96FI4;Q8TAT5;P78549;Q53HV7;O15527}

6843 Pathogen[ P14075] interacts with 2 human partners: {O15527;Q53HV7}

6844 Pathogen[ P0C206] interacts with 5 human partners: {O15527;Q53HV7;Q8TAT5;Q96FI4;P78549}

6845 Pathogen[ P03363] interacts with 3 human partners: {O15527;Q96FI4;Q53HV7}

6846 [Cluster 623]GO:0003880+F molecular\_function [name] protein C-terminal carboxyl O-methyltransferase activity [def] "Catalysis of the transfer of a methyl group to the oxygen atom of a carboxyl group at the C-terminal of a protein." [PMID

6847 Pathogen[ Q2Q067] interacts with 1 human partners: {Q9UIC8}

6848 Pathogen[ P0C214] interacts with 1 human partners: {Q9UIC8}

6849 Pathogen[ P03346] interacts with 1 human partners: {Q9UIC8}

6850 Pathogen[ Q85601] interacts with 1 human partners: {Q9UIC8}

6851 Pathogen[ P14079] interacts with 1 human partners: {Q9UIC8}

6852 Pathogen[ P03383] interacts with 1 human partners: {Q9UIC8}

6853 Pathogen[ P03410] interacts with 1 human partners: {Q9UIC8}

6854 Pathogen[ P14075] interacts with 1 human partners: {Q9UIC8}

6855 Pathogen[ P0C206] interacts with 1 human partners: {Q9UIC8}

6856 Pathogen[ P03363] interacts with 1 human partners: {Q9UIC8}

6857 [Cluster 624]GO:0017166+F molecular\_function [name] vinculin binding [def] "Interacting selectively and non-covalently with vinculin, a protein found in muscle, fibroblasts, and epithelial cells that binds actin and appears to mediate attachment of actin filaments to integral proteins of the plasma membrane." [ISBN

6858 Pathogen[ Q2Q067] interacts with 2 human partners: {O15061;O60504}

6859 Pathogen[ P0C214] interacts with 2 human partners: {O15061;O60504}

6860 Pathogen[ P03346] interacts with 2 human partners: {O15061;O60504}

6861 Pathogen[ Q85601] interacts with 2 human partners: {O60504;O15061}

6862 Pathogen[ P14079] interacts with 4 human partners: {O60504;Q14118;O15061;P49023}

6863 Pathogen[ P03383] interacts with 2 human partners: {O15061;O60504}

6864 Pathogen[ P03410] interacts with 3 human partners: {O15061;Q14118;O60504}

6865 Pathogen[ P14075] interacts with 2 human partners: {O15061;O60504}

6866 Pathogen[ P0C206] interacts with 2 human partners: {O60504;O15061}

6867 Pathogen[ P03363] interacts with 1 human partners: {O15061}

6868 [Cluster 625]GO:0030296+F molecular\_function [name] protein tyrosine kinase activator activity [def] "Increases the activity of a protein tyrosine kinase, an enzyme which phosphorylates a tyrosyl phenolic group on a protein." [GOC

6869 Pathogen[ Q2Q067] interacts with 2 human partners: {Q8IZP0;P25063}

6870 Pathogen[ P0C214] interacts with 2 human partners: {Q8IZP0;P25063}

6871 Pathogen[ P03346] interacts with 2 human partners: {Q8IZP0;P25063}

6872 Pathogen[ Q85601] interacts with 1 human partners: {Q8IZP0}

6873 Pathogen[ P14079] interacts with 2 human partners: {Q8IZP0;P25063}

6874 Pathogen[ P03383] interacts with 1 human partners: {P25063}

6875 Pathogen[ P03410] interacts with 2 human partners: {P25063;Q8IZP0}

6876 Pathogen[ P14075] interacts with 1 human partners: {P25063}

6877 Pathogen[ P0C206] interacts with 2 human partners: {P25063;Q8IZP0}

6878 Pathogen[ P03363] interacts with 1 human partners: {Q8IZP0}

6879 [Cluster 626]GO:0042134+F molecular\_function [name] rRNA primary transcript binding [def] "Interacting selectively and non-covalently with an unprocessed ribosomal RNA transcript." [GOC

6880 Pathogen[ Q2Q067] interacts with 1 human partners: {Q6NZI2}

6881 Pathogen[ P0C214] interacts with 1 human partners: {Q6NZI2}

6882 Pathogen[ P03346] interacts with 1 human partners: {Q6NZI2}

6883 Pathogen[ Q85601] interacts with 1 human partners: {Q6NZI2}

6884 Pathogen[ P14079] interacts with 1 human partners: {Q6NZI2}

6885 Pathogen[ P03383] interacts with 1 human partners: {Q6NZI2}

6886 Pathogen[ P03410] interacts with 1 human partners: {Q6NZI2}

6887 Pathogen[ P14075] interacts with 1 human partners: {Q6NZI2}

6888 Pathogen[ P0C206] interacts with 1 human partners: {Q6NZI2}

6889 Pathogen[ P03363] interacts with 1 human partners: {Q6NZI2}

6890 [Cluster 627]GO:0008426+F molecular\_function [name] protein kinase C inhibitor activity [def] "Stops, prevents or reduces the activity of protein kinase C, an enzyme which phosphorylates a protein." [GOC

6891 Pathogen[ Q2Q067] interacts with 2 human partners: {P61981;P04792}



6892 Pathogen[ P0C214] interacts with 2 human partners:{P04792;P61981}

6893 Pathogen[ P03346] interacts with 2 human partners:{P61981;P04792}

6894 Pathogen[ Q85601] interacts with 2 human partners:{P61981;P04792}

6895 Pathogen[ P14079] interacts with 2 human partners:{P61981;P04792}

6896 Pathogen[ P03383] interacts with 2 human partners:{P04792;P61981}

6897 Pathogen[ P03410] interacts with 2 human partners:{P04792;P61981}

6898 Pathogen[ P14075] interacts with 2 human partners:{P04792;P61981}

6899 Pathogen[ P0C206] interacts with 2 human partners:{P04792;P61981}

6900 Pathogen[ P03363] interacts with 2 human partners:{P61981;P04792}

6901 [Cluster 628]GO:0051015+F molecular\_function [name] actin filament binding [def]  
 "Interacting selectively and non-covalently with an actin filament, also known as F-actin, a helical filamentous polymer of globular G-actin subunits." [ISBN

6902 Pathogen[ Q2Q067] interacts with 9 human partners:{Q9UL45;P29966;P42704;Q96IF1;Q9UBK9;Q9BR76;P59998;P35579;Q66K74}

6903 Pathogen[ P0C214] interacts with 11 human partners:{P29966;Q9UM54;P42704;P35580;Q16658;Q9UL45;P59998;Q7Z406;Q9UBK9;Q66K74;Q9BR76}

6904 Pathogen[ P03346] interacts with 16 human partners:{P02549;P11277;P35579;Q66K74;Q96IF1;Q9BR76;P59998;Q14847;O76041;P42704;P63316;Q9UL45;P29966;Q16658;Q96KN3;Q9UBK9}

6905 Pathogen[ Q85601] interacts with 11 human partners:{P35579;Q66K74;Q9BR76;P59998;Q7Z406;P42704;P29966;Q96IF1;P35580;Q9UM54;Q9UBK9}

6906 Pathogen[ P14079] interacts with 23 human partners:{P35579;O95425;P09327;Q16658;Q66K74;P42704;Q14847;Q9UM54;Q9H269;P35611;Q9NQT6;Q9Y6U3;Q2M3G4;Q9UL45;Q96IF1;P29966;Q9UBK9;O76041;Q9BR76;P11277;P59998;P02549;Q6JBY9}

6907 Pathogen[ P03383] interacts with 6 human partners:{P59998;P29966;P35580;P42704;P35579;Q9UBK9}

6908 Pathogen[ P03410] interacts with 23 human partners:{Q16658;Q2M3G4;O76041;P59998;P35579;Q9UBK9;Q9Y6U3;P02549;Q9UL45;Q96IF1;Q9UM54;O95425;P42704;Q14847;Q9BR76;Q66K74;P35580;P63316;Q6JBY9;Q9H269;P35611;P11277;P29966}

6909 Pathogen[ P14075] interacts with 6 human partners:{P42704;Q6JBY9;P29966;Q9UBK9;P35579;P59998}

6910 Pathogen[ P0C206] interacts with 16 human partners:{Q6JBY9;Q9UM54;Q9UL45;Q9BR76;Q96IF1;P59998;Q66K74;O76041;Q16658;Q2M3G4;P35579;P11277;P42704;Q9UBK9;P35580;P29966}

6911 Pathogen[ P03363] interacts with 17 human partners:{P11277;Q2M3G4;Q66K74;P02549;P35579;Q9BR76;Q14847;P42704;Q8NHY3;Q9UBK9;Q7L576;Q96IF1;P59998;Q96KN3;P29966;O76041;Q16658}

6912 [Cluster 629]GO:0030911+F molecular\_function [name] TPR domain binding [def]  
 "Interacting selectively and non-covalently with a tetratricopeptide repeat (TPR) domain of a protein, the consensus sequence of which is defined by a pattern of small and large hydrophobic amino acids and a structure composed of helices." [GOC

6913 Pathogen[ Q2Q067] interacts with 3 human partners:{P08238;P07900;Q9UNE7}

6914 Pathogen[ P0C214] interacts with 1 human partners:{Q9UNE7}

6915 Pathogen[ P03346] interacts with 3 human partners:{P07900;Q9UNE7;P08238}

6916 Pathogen[ Q85601] interacts with 3 human partners:{P08238;P07900;Q9UNE7}

6917 Pathogen[ P14079] interacts with 2 human partners:{P08238;P07900}

6918 Pathogen[ P03383] interacts with 2 human partners:{P07900;P08238}

6919 Pathogen[ P03410] interacts with 3 human partners:{P08238;P07900;Q9UNE7}

6920 Pathogen[ P14075] interacts with 2 human partners:{P08238;P07900}

6921 Pathogen[ P0C206] interacts with 3 human partners:{P08238;Q9UNE7;P07900}

6922 Pathogen[ P03363] interacts with 3 human partners:{P07900;Q9UNE7;P08238}

6923 [Cluster 630]GO:0034046+F molecular\_function [name] poly(G) RNA binding [def]  
 "Interacting selectively and non-covalently with a sequence of guanine residues in an RNA molecule." [GOC

6924 Pathogen[ Q2Q067] interacts with 3 human partners:{Q8TCS8;Q86TB9;P54253}

6925 Pathogen[ P0C214] interacts with 3 human partners:{P54253;Q8TCS8;Q86TB9}

6926 Pathogen[ P03346] interacts with 3 human partners:{Q86TB9;Q8TCS8;P54253}

6927 Pathogen[ Q85601] interacts with 3 human partners:{Q86TB9;Q8TCS8;P54253}

6928 Pathogen[ P14079] interacts with 3 human partners:{Q86TB9;P54253;Q8TCS8}

6929 Pathogen[ P03383] interacts with 3 human partners:{Q8TCS8;Q86TB9;P54253}

6930 Pathogen[ P03410] interacts with 3 human partners:{Q8TCS8;Q86TB9;P54253}

6931 Pathogen[ P14075] interacts with 3 human partners:{P54253;Q86TB9;Q8TCS8}

6932 Pathogen[ P0C206] interacts with 3 human partners:{Q86TB9;Q8TCS8;P54253}

6933 Pathogen[ P03363] interacts with 2 human partners:{P54253;Q86TB9}

6934 [Cluster 631]GO:0000014+F molecular\_function [name] single-stranded DNA specific endodeoxyribonuclease activity [def]  
 "Catalysis of the hydrolysis of ester linkages within a single-stranded deoxyribonucleic acid molecule by creating internal breaks." [GOC

6935 Pathogen[ Q2Q067] interacts with 4 human partners:{Q96SD1;Q92889;P49959;Q99708}

6936 Pathogen[ P0C214] interacts with 4 human partners:{P49959;Q92889;Q96SD1;Q99708}

6937 Pathogen[ P03346] interacts with 5 human partners:{Q96SD1;P07992;Q99708;P49959;Q92889}

6938 Pathogen[ Q85601] interacts with 4 human partners:{Q99708;P49959;Q92889;Q96SD1}  
6939 Pathogen[ P14079] interacts with 4 human partners:{Q99708;Q92889;Q96SD1;P07992}  
6940 Pathogen[ P03383] interacts with 1 human partners:{Q99708}  
6941 Pathogen[ P03410] interacts with 5 human  
partners:{P49959;Q99708;P07992;Q92889;Q96SD1}  
6942 Pathogen[ P14075] interacts with 1 human partners:{Q99708}  
6943 Pathogen[ P0C206] interacts with 5 human  
partners:{P49959;Q99708;Q96SD1;P07992;Q92889}  
6944 Pathogen[ P03363] interacts with 2 human partners:{Q92889;Q99708}  
6945 [Cluster 632]GO:0000977+F molecular\_function [name] RNA polymerase II regulatory  
region sequence-specific DNA binding [def] "Interacting selectively and non-covalently  
with a specific sequence of DNA that is part of a regulatory region that controls the  
transcription of a gene or cistron by RNA polymerase II." [GOC  
6946 Pathogen[ Q2Q067] interacts with 11 human  
partners:{O14813;Q14814;P15976;Q92754;P15036;P25791;Q13761;Q9HBD4;Q16649;Q02078;Q1058  
6}  
6947 Pathogen[ P0C214] interacts with 9 human  
partners:{O14813;Q13761;Q9HBD4;Q10586;Q02078;Q14814;Q92754;P25791;P15036}  
6948 Pathogen[ P03346] interacts with 13 human  
partners:{Q02078;Q9HBD4;O14813;Q14814;P15173;Q92754;P25791;P15976;Q13761;Q16649;Q9959  
3;Q10586;P15036}  
6949 Pathogen[ Q85601] interacts with 11 human  
partners:{Q02078;P15036;O14813;Q92754;P15976;Q14814;P25791;Q16649;Q9HBD4;Q10586;Q1376  
1}  
6950 Pathogen[ P14079] interacts with 11 human  
partners:{P15036;Q02078;Q06413;Q16649;P15976;P25791;Q92754;Q14814;Q13761;O14813;Q1058  
6}  
6951 Pathogen[ P03383] interacts with 8 human  
partners:{Q13761;P15036;Q9HBD4;Q14814;P25791;Q92754;Q10586;Q02078}  
6952 Pathogen[ P03410] interacts with 11 human  
partners:{O14813;P25791;Q14814;P15036;Q16649;Q10586;Q13761;Q02078;Q9HBD4;P15976;Q9275  
4}  
6953 Pathogen[ P14075] interacts with 8 human  
partners:{Q9HBD4;Q92754;Q10586;P15036;P25791;Q02078;Q14814;Q13761}  
6954 Pathogen[ P0C206] interacts with 11 human  
partners:{Q16649;Q02078;P15976;Q92754;O14813;P15036;P25791;Q9HBD4;Q14814;Q13761;Q1058  
6}  
6955 Pathogen[ P03363] interacts with 10 human  
partners:{Q16649;Q10586;P25791;Q14814;Q9HBD4;Q13761;P15036;O14813;Q92754;Q02078}  
6956 [Cluster 633]GO:0004045+F molecular\_function [name] aminoacyl-tRNA hydrolase activity  
[def] "Catalysis of the reaction  
6957 Pathogen[ Q2Q067] interacts with 2 human partners:{Q86Y79;Q9Y3E5}  
6958 Pathogen[ P0C214] interacts with 3 human partners:{Q86Y79;Q9Y3E5;Q14197}  
6959 Pathogen[ P03346] interacts with 2 human partners:{Q9Y3E5;Q86Y79}  
6960 Pathogen[ Q85601] interacts with 2 human partners:{Q9Y3E5;Q86Y79}  
6961 Pathogen[ P14079] interacts with 3 human partners:{Q9Y3E5;Q86Y79;Q14197}  
6962 Pathogen[ P03383] interacts with 2 human partners:{Q9Y3E5;Q86Y79}  
6963 Pathogen[ P03410] interacts with 3 human partners:{Q86Y79;Q14197;Q9Y3E5}  
6964 Pathogen[ P14075] interacts with 2 human partners:{Q9Y3E5;Q86Y79}  
6965 Pathogen[ P0C206] interacts with 3 human partners:{Q86Y79;Q9Y3E5;Q14197}  
6966 Pathogen[ P03363] interacts with 2 human partners:{Q86Y79;Q9Y3E5}  
6967 [Cluster 634]GO:0045155+F molecular\_function [name] electron transporter, transferring  
electrons from CoQH2-cytochrome c reductase complex and cytochrome c oxidase complex  
activity [def] "Enables the directed movement of electrons from the CoQH2-cytochrome c  
reductase complex and the cytochrome c oxidase complex." [GOC  
6968 Pathogen[ Q2Q067] interacts with 1 human partners:{P99999}  
6969 Pathogen[ P0C214] interacts with 1 human partners:{P99999}  
6970 Pathogen[ P03346] interacts with 1 human partners:{P99999}  
6971 Pathogen[ Q85601] interacts with 1 human partners:{P99999}  
6972 Pathogen[ P14079] interacts with 1 human partners:{P99999}  
6973 Pathogen[ P03383] interacts with 1 human partners:{P99999}  
6974 Pathogen[ P03410] interacts with 1 human partners:{P99999}  
6975 Pathogen[ P14075] interacts with 1 human partners:{P99999}  
6976 Pathogen[ P0C206] interacts with 1 human partners:{P99999}  
6977 Pathogen[ P03363] interacts with 1 human partners:{P99999}  
6978 [Cluster 635]GO:0001077+F molecular\_function [name] RNA polymerase II core promoter  
proximal region sequence-specific DNA binding transcription factor activity involved in  
positive regulation of transcription [def] "Interacting selectively and non-covalently  
with a sequence of DNA that is in cis with and relatively close to a core promoter for  
RNA polymerase II (RNAP II) in order to activate or increase the frequency, rate or  
extent of transcription from the RNAP II promoter." [GOC  
6979 Pathogen[ Q2Q067] interacts with 29 human  
partners:{Q12837;P15884;Q32MQ0;Q9NQ87;Q9BZE3;Q02930;P15976;Q92754;P17676;P08047;P1183  
1;P28069;P61978;O15162;P23769;Q9P243;Q06330;O75030;Q9UIH9;O15370;Q99687;P20823;P15336  
;Q9NY43;Q99814;P22736;Q9UPG8;Q10586;P78543}  
6980 Pathogen[ P0C214] interacts with 26 human

partners:{P32243;Q02930;P15336;P78543;Q9UIH9;P15884;Q9BZE3;P23769;P11831;Q9UPG8;Q06330;O75030;P17676;Q10586;Q92754;Q12837;O15162;Q99687;P28069;Q99814;Q9P243;O15370;Q9NQ87;P08047;Q9NY43;Q32MQ0}

6981 Pathogen[ P03346] interacts with 38 human  
partners:{Q06330;Q06945;Q9BZE0;P61978;Q99687;Q7RTS3;Q32MQ0;Q9H2W2;Q96BA8;P17676;O15370;P15336;P11831;Q9BZE3;Q12837;P23769;P28023;O75030;Q92754;Q9UBC0;P08047;O43680;Q9P243;P22736;P15976;Q9NQ87;Q99814;Q92481;P28069;Q10586;Q9UPG8;Q02930;P32243;P78543;Q9NY43;Q9UIH9;P15884;O15162}

6982 Pathogen[ Q85601] interacts with 30 human  
partners:{P61978;P11831;Q9UPG8;P17676;Q92754;Q99687;P15976;Q32MQ0;Q06330;Q9BZE3;O75030;P28069;P23769;Q99814;Q9UIH9;P08047;O15370;Q02930;P78543;P22736;Q9NQ87;P32243;Q9P243;O15162;P15336;P20823;Q12837;Q9NY43;P15884;Q10586}

6983 Pathogen[ P14079] interacts with 28 human  
partners:{Q32MQ0;P78543;O15162;Q99814;Q06413;O15370;P22736;P15976;Q9NY43;Q12837;P28069;Q99687;Q06330;Q9UPG8;Q9BZE3;Q9UIH9;Q02930;P15336;Q9P243;Q92754;P32243;P61978;P15884;Q9NQ87;O75030;Q10586;P23769;Q9BZE0}

6984 Pathogen[ P03383] interacts with 21 human  
partners:{Q06330;P11831;P08047;P28069;P32243;Q32MQ0;O15162;P23769;Q9NQ87;O75030;P61978;P78543;Q99687;P17676;Q12837;O15370;Q92754;Q10586;Q9NY43;P15336;Q02930}

6985 Pathogen[ P03410] interacts with 29 human  
partners:{P28069;P11831;P61978;P17676;Q99814;Q06330;Q9NQ87;O75030;Q9UPG8;P15884;Q9BZE3;Q9UIH9;Q99687;Q9P243;O15162;Q02930;Q32MQ0;P22736;Q10586;P78543;P32243;P23769;P08047;O15370;Q12837;Q9NY43;P15336;P15976;Q92754}

6986 Pathogen[ P14075] interacts with 22 human  
partners:{P28069;Q99687;O75030;P11831;O15162;P23769;Q12837;P15336;Q92754;Q9NQ87;Q10586;Q9NY43;P78543;O15370;P61978;Q06330;Q32MQ0;P15884;P17676;P32243;Q02930;P08047}

6987 Pathogen[ P0C206] interacts with 32 human  
partners:{Q9NQ87;Q9BZE0;Q32MQ0;Q06330;Q9NY43;O75030;Q9P243;P61978;Q9UBC0;P15336;Q9UIH9;P15976;P22736;Q92754;Q9BZE3;Q12837;P32243;P17676;P08047;P15884;P20823;Q02930;O15370;P23769;P11831;O15162;Q9UPG8;Q99687;Q99814;P28069;Q10586;P78543}

6988 Pathogen[ P03363] interacts with 29 human  
partners:{O15370;Q9UBC0;P17676;Q02930;Q10586;Q06330;Q9NQ87;Q7RTS3;Q9P243;Q9H2W2;P78543;P32243;Q9BZE3;P15336;P11831;P28069;Q9UPG8;O75030;Q32MQ0;Q99814;Q99687;P15884;P61978;P08047;Q9NY43;Q9UIH9;Q12837;Q9BZE0;Q92754}

6989 [Cluster 636]GO:0031072+F molecular\_function [name] heat shock protein binding [def] "Interacting selectively with a heat shock protein, any protein synthesized or activated in response to heat shock." [GOC

6990 Pathogen[ Q2Q067] interacts with 21 human  
partners:{Q95997;Q8IWL3;Q9UER7;Q9UBS4;Q9UDY4;Q9UBS3;Q6W2J9;Q9UNN5;O75190;Q99615;Q16543;P25685;Q9NZJ4;Q53G26;Q99543;P19838;P25963;Q08752;O75953;P31689;Q96EY1}

6991 Pathogen[ P0C214] interacts with 25 human  
partners:{Q9UDY4;Q16543;P19838;O75190;Q6W2J9;Q9UBS3;Q8WW22;Q8IWL3;Q9UBS4;Q99615;Q9NZJ4;Q9UER7;Q9UNN5;P25963;Q53G26;Q95997;O60884;Q96GD0;Q99543;Q08752;Q5F1R6;O75953;Q96EY1;P36957;P25685}

6992 Pathogen[ P03346] interacts with 24 human  
partners:{Q5F1R6;Q99615;Q9UBS3;P25685;Q99543;O75190;P25963;P25686;Q9NZJ4;O95997;Q9UNN5;Q08752;Q9UER7;Q16543;P31689;Q53G26;Q96KC8;Q9UBS4;P19838;Q9UDY4;O75953;Q8IWL3;Q96EY1;Q6W2J9}

6993 Pathogen[ Q85601] interacts with 24 human  
partners:{Q99543;Q16543;P31689;O75190;Q9UBS3;Q53G26;Q9UER7;Q9UBS4;Q8WW22;O60884;P25685;O75953;Q08752;Q9UNN5;Q99615;Q9UDY4;Q9NZJ4;Q8IWL3;P19838;Q96EY1;Q95997;Q6W2J9;Q5F1R6;P25963}

6994 Pathogen[ P14079] interacts with 22 human  
partners:{Q08752;Q9NZJ4;Q9UBS3;Q8IWL3;Q9UBS4;Q9UDY4;O75190;P25685;Q96GD0;Q6W2J9;Q99543;Q9UNN5;Q9UER7;O75953;Q95997;P31689;Q99615;Q16543;Q5F1R6;Q8WW22;O60884;Q96EY1}

6995 Pathogen[ P03383] interacts with 19 human  
partners:{Q16543;Q08752;P31689;O75190;Q9UBS4;Q6W2J9;Q9UBS3;Q9UNN5;Q9UDY4;Q99615;Q9UER7;P25963;Q8IWL3;Q99543;Q95997;P19838;O75953;Q96EY1;Q53G26}

6996 Pathogen[ P03410] interacts with 26 human  
partners:{Q9UDY4;P19838;Q9UNN5;Q6W2J9;Q53G26;Q16543;Q08752;P25685;P25686;O75953;Q9UBS3;Q5F1R6;O95997;Q99615;Q96GD0;Q9UER7;Q9NZJ4;O75190;Q8IWL3;O60884;Q9UBS4;P31689;P25963;Q8WW22;Q99543;Q96EY1}

6997 Pathogen[ P14075] interacts with 19 human  
partners:{O75953;Q9UBS3;Q16543;P31689;Q08752;Q99615;Q95997;Q99543;Q53G26;Q9UDY4;P25963;Q9UNN5;Q6W2J9;O75190;P19838;Q9UBS4;Q9UER7;Q8IWL3;Q96EY1}

6998 Pathogen[ P0C206] interacts with 25 human  
partners:{Q9UNN5;Q9UDY4;Q08752;Q6W2J9;Q5F1R6;Q99615;Q95997;Q53G26;Q9UBS4;P25963;Q9NZJ4;Q9UER7;Q16543;O60884;P19838;Q8WW22;Q99543;O75953;Q96GD0;Q9UBS3;P25685;Q8IWL3;Q96EY1;P31689;O75190}

6999 Pathogen[ P03363] interacts with 21 human  
partners:{Q9UNN5;O75190;O75953;Q99615;Q9NZJ4;Q99543;P25963;Q9UBS3;Q08752;Q9UDY4;Q9UER7;Q5F1R6;Q53G26;Q16543;Q9UBS4;P19838;Q8IWL3;P25685;Q95997;Q6W2J9;Q96EY1}

7000 [Cluster 637]GO:0005543+F molecular\_function [name] phospholipid binding [def] "Interacting selectively and non-covalently with phospholipids, a class of lipids containing phosphoric acid as a mono- or diester." [ISBN

7001 Pathogen[ Q2Q067] interacts with 21 human

7002 partners:{Q01082;P31749;Q9NQW6;O00291;Q8IWE5;Q96TA1;Q13884;Q86WV1;Q8NEU8;Q6ICB4;Q9HB19;O95810;P50570;Q8WV24;Q9UGK3;Q13425;Q9ULZ2;Q9UKG1;Q92556;Q96JJ3;Q8IYI6}  
Pathogen[ P0C214] interacts with 27 human

7003 partners:{Q6ICB4;O60346;O95810;P00480;Q92934;Q13884;Q9UKG1;Q8IWE5;Q01082;Q9HB19;Q13425;Q8NEU8;Q9UQC2;Q92556;Q96TA1;Q9ULZ2;Q9BQI5;Q86WV1;P50570;Q8WV24;Q96JJ3;Q99704;Q8IYI6;Q9H492;O00291;P31749;Q9UGK3}  
Pathogen[ P03346] interacts with 56 human

7004 partners:{Q13425;Q5JU85;Q8IYI6;Q96AC1;Q969H4;Q8IY22;O60346;Q15438;P50570;Q9NQW6;Q9HB19;Q8WV24;Q9H4E7;P07148;Q13884;Q13322;Q9ULZ2;Q86WG5;Q12802;Q9UQC2;Q9NRF2;Q96JJ3;O00291;Q13424;Q9HAU0;Q01082;Q9H8W4;Q9BXW6;Q9BZ29;Q96TA1;Q8NEU8;Q8N4B1;P31749;Q9UGK3;Q9H492;Q99704;Q6DN90;Q95810;P78314;Q13492;Q9UPP2;Q9HB21;Q5VV41;Q96S99;Q9UKG1;Q9H8V3;O00482;Q6ICB4;Q9BQI5;Q9ULU8;Q92556;Q86WV1;Q13285;Q6IQ23;O75146;Q8IWE5}  
Pathogen[ Q85601] interacts with 29 human

7005 partners:{Q9H492;Q8IYI6;O60346;Q9ULZ2;Q96S99;P31749;Q9NQW6;Q8WV24;Q13884;Q9UQC2;P00480;Q8NEU8;Q6IQ23;Q01082;Q96JJ3;Q8IWE5;Q9HAU0;Q86WV1;Q96TA1;O95810;Q9UGK3;Q6ICB4;Q13425;Q9HB21;P50570;O00482;Q9UKG1;Q9HB19;O00291}  
Pathogen[ P14079] interacts with 63 human

7006 partners:{P31751;P04083;Q9BXW6;Q494U1;Q13492;Q9Y4G2;Q9NQW6;Q9UPP2;Q9H8W4;O00291;Q86WV1;O75146;Q9UKG1;Q8WV24;Q86XR2;Q6IQ23;Q8NEU8;Q99704;Q01082;Q9H492;Q92556;Q9ULU8;Q8IY22;Q9UGK3;O60346;Q96S99;Q96JJ3;Q13424;Q96BJ8;P50570;Q9HB19;P10911;Q12802;Q9ULZ2;P08758;Q9HAU0;Q9H2D6;O00519;O00482;Q6NSJ2;Q92934;Q9BQI5;Q8N4B1;Q96AC1;Q9H8V3;Q53GA4;O76027;Q969H4;P00480;Q86WG5;Q8IYI6;Q6ICB4;O95810;Q99487;Q9HB21;Q8IWE5;Q96TA1;Q6DN90;Q53GL0;Q9UQC2;Q15438;Q9NSN8;Q5VV41}  
Pathogen[ P03383] interacts with 15 human

7007 partners:{Q13884;P31749;Q8NEU8;Q86WV1;Q8IYI6;O00291;Q96TA1;Q9ULZ2;Q9BQI5;Q9UGK3;O95810;Q8WV24;Q9HB19;Q8IWE5;Q13425}  
Pathogen[ P03410] interacts with 57 human

7008 partners:{Q9UQC2;O00519;Q96TA1;Q9UGK3;Q8IWE5;Q86WV1;Q96S99;Q8IY22;Q8N4B1;Q9ULZ2;O76027;Q53GA4;Q9HAU0;Q6NSJ2;Q13425;P31749;Q92934;P50570;O00291;Q9HB21;Q9NQW6;Q969H4;O75146;Q13884;O60333;P00480;Q92556;Q13492;Q8WV24;Q9H492;Q99704;Q9UPP2;Q5VV41;Q96BJ8;Q9ULU8;O95810;Q6ICB4;Q9BQI5;Q15438;Q9H8W4;O60346;Q494U1;Q8NEU8;Q01082;Q53GL0;Q9HB19;Q9H8V3;Q15283;Q13424;Q86XR2;Q96JJ3;Q9UKG1;Q9H2D6;Q8IYI6;Q6IQ23;Q9BXW6;Q86WG5}  
Pathogen[ P14075] interacts with 15 human

7009 partners:{Q9BQI5;Q13884;Q13425;Q8NEU8;Q8WV24;Q96TA1;O00291;Q86WV1;P31749;O95810;Q9UGK3;Q8IWE5;Q9HB19;Q9ULZ2;Q8IYI6}  
Pathogen[ P0C206] interacts with 44 human

7010 partners:{Q01082;Q9UKG1;Q9HB19;Q92556;P31749;Q8IWE5;O00291;Q8NEU8;Q9HAU0;O95810;Q9NQW6;Q9H492;Q8IY22;Q96TA1;Q6ICB4;O00482;Q92934;Q9UGK3;Q13884;Q9ULU8;Q13425;Q6NSJ2;Q86WV1;Q96JJ3;Q96S99;Q9H8V3;Q9BQI5;Q9HB21;Q99704;Q8IYI6;Q8N4B1;Q9UPP2;Q9BXW6;Q9ULZ2;O60346;Q9H8W4;Q13424;Q969H4;Q9UQC2;Q6IQ23;Q9H4E7;P00480;P50570;Q8WV24}  
Pathogen[ P03363] interacts with 50 human

7011 partners:{Q9UGK3;Q9HAU0;Q9H2D6;Q15438;Q6ICB4;Q5VV41;Q9BZF3;Q99704;Q9H492;Q86WV1;Q9NQW6;Q8IYI6;Q9UPP2;Q8WV24;Q01082;P50570;Q8N4B1;Q8IWE5;Q13425;P78314;Q8NEU8;P10911;Q969H4;Q9ULZ2;Q9BXW6;Q13480;P31749;Q86WG5;Q92556;Q13884;Q9HB19;Q8IY22;Q5JU85;Q96JJ3;Q7Z5H3;Q6DN90;O75146;O60333;Q9H8W4;Q96AC1;Q96TA1;Q9BQI5;O95810;Q6IQ23;Q9NSN8;Q9UKG1;O00291;Q13424;Q9UQC2;O00482}  
[Cluster 638]GO:0004874+F molecular\_function [name] aryl hydrocarbon receptor activity [def] "Combining with an aryl hydrocarbon to initiate a change in cell activity. The aryl hydrocarbon receptor is a ligand-activated transcription factor which translocates to the nucleus to activate transcription upon ligand-binding." [GOC  
7012 Pathogen[ Q2Q067] interacts with 1 human partners:{P27540}  
7013 Pathogen[ P0C214] interacts with 1 human partners:{P27540}  
7014 Pathogen[ P03346] interacts with 1 human partners:{P27540}  
7015 Pathogen[ Q85601] interacts with 1 human partners:{P27540}  
7016 Pathogen[ P14079] interacts with 1 human partners:{P27540}  
7017 Pathogen[ P03383] interacts with 1 human partners:{P27540}  
7018 Pathogen[ P03410] interacts with 1 human partners:{P27540}  
7019 Pathogen[ P14075] interacts with 1 human partners:{P27540}  
7020 Pathogen[ P0C206] interacts with 1 human partners:{P27540}  
7021 Pathogen[ P03363] interacts with 1 human partners:{P27540}

7022 [Cluster 639]GO:0031491+F molecular\_function [name] nucleosome binding [def] "Interacting selectively and non-covalently with a nucleosome, a complex comprised of DNA wound around a multisubunit core and associated proteins, which forms the primary packing unit of DNA into higher order structures." [GOC  
7023 Pathogen[ Q2Q067] interacts with 5 human partners:{Q9Y3T9;P78317;Q2TAK8;P28370;Q9Y468}  
7024 Pathogen[ P0C214] interacts with 7 human partners:{Q9Y3T9;Q2TAK8;Q9Y468;P78317;P28370;O60264;Q8IYW5}  
7025 Pathogen[ P03346] interacts with 7 human partners:{Q2TAK8;O60264;Q9Y3T9;P78317;Q9Y468;Q8IYW5;P28370}  
7026 Pathogen[ Q85601] interacts with 7 human partners:{P78317;Q9Y468;Q2TAK8;Q8IYW5;Q9Y3T9;P28370;O60264}  
7027 Pathogen[ P14079] interacts with 6 human partners:{P28370;Q9Y468;Q2TAK8;Q9Y3T9;O60264;P78317}  
7028 Pathogen[ P03383] interacts with 5 human partners:{P28370;P78317;Q9Y3T9;Q2TAK8;Q9Y468}

7029 Pathogen[ P03410] interacts with 6 human partners:{Q2TAK8;Q9Y468;Q9Y3T9;P78317;O60264;P28370}

7030 Pathogen[ P14075] interacts with 5 human partners:{Q2TAK8;Q9Y468;P78317;P28370;Q9Y3T9}

7031 Pathogen[ P0C206] interacts with 7 human partners:{Q9Y468;Q8IYW5;P78317;P28370;Q2TAK8;Q9Y3T9;O60264}

7032 Pathogen[ P03363] interacts with 7 human partners:{Q9Y468;P78317;Q8IYW5;O60264;Q9Y3T9;Q2TAK8;P28370}

7033 [Cluster 640]GO:0008973+F molecular\_function [name] phosphopentomutase activity [def] "Catalysis of the reaction

7034 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96G03}

7035 Pathogen[ P0C214] interacts with 1 human partners:{Q96G03}

7036 Pathogen[ P03346] interacts with 1 human partners:{Q96G03}

7037 Pathogen[ Q85601] interacts with 1 human partners:{Q96G03}

7038 Pathogen[ P14079] interacts with 1 human partners:{Q96G03}

7039 Pathogen[ P03383] interacts with 1 human partners:{Q96G03}

7040 Pathogen[ P03410] interacts with 1 human partners:{Q96G03}

7041 Pathogen[ P14075] interacts with 1 human partners:{Q96G03}

7042 Pathogen[ P0C206] interacts with 1 human partners:{Q96G03}

7043 Pathogen[ P03363] interacts with 1 human partners:{Q96G03}

7044 [Cluster 641]GO:0001540+F molecular\_function [name] beta-amyloid binding [def] "Interacting selectively and non-covalently with beta-amyloid peptide/protein and/or its precursor." [GOC

7045 Pathogen[ Q2Q067] interacts with 5 human partners:{O00213;O95886;Q92870;Q02410;O96018}

7046 Pathogen[ P0C214] interacts with 5 human partners:{O00213;O96018;O95886;Q02410;Q92870}

7047 Pathogen[ P03346] interacts with 7 human partners:{O00213;Q99767;Q02410;Q92870;O95886;O96018;Q96D09}

7048 Pathogen[ Q85601] interacts with 6 human partners:{O00213;Q99767;O96018;Q92870;Q02410;O95886}

7049 Pathogen[ P14079] interacts with 10 human partners:{Q02410;O00213;Q9NQX7;Q9Y287;O96018;A4D1B5;O95886;Q99767;Q92870;Q96D09}

7050 Pathogen[ P03383] interacts with 5 human partners:{O96018;O00213;O95886;Q92870;Q02410}

7051 Pathogen[ P03410] interacts with 10 human partners:{O96018;A4D1B5;Q96D09;Q99767;O00213;Q9Y287;Q02410;Q9NQX7;O95886;Q92870}

7052 Pathogen[ P14075] interacts with 6 human partners:{O00213;Q02410;O96018;O95886;Q92870;Q9Y287}

7053 Pathogen[ P0C206] interacts with 10 human partners:{Q9Y287;O95886;O00213;Q99767;O96018;A4D1B5;Q92870;Q9NQX7;Q96D09;Q02410}

7054 Pathogen[ P03363] interacts with 7 human partners:{Q96D09;O00213;Q02410;Q92870;O95886;O96018;Q99767}

7055 [Cluster 642]GO:0015035+F molecular\_function [name] protein disulfide oxidoreductase activity [def] "Catalysis of the reaction

7056 Pathogen[ Q2Q067] interacts with 3 human partners:{P35754;P10599;Q9H299}

7057 Pathogen[ P0C214] interacts with 5 human partners:{P35754;Q9H299;Q16881;P10599;P13667}

7058 Pathogen[ P03346] interacts with 7 human partners:{Q9NS18;O43396;P13667;Q9H299;O76003;P35754;P10599}

7059 Pathogen[ Q85601] interacts with 4 human partners:{P10599;O76003;P35754;Q9H299}

7060 Pathogen[ P14079] interacts with 4 human partners:{Q9H299;P35754;O76003;P10599}

7061 Pathogen[ P03383] interacts with 1 human partners:{P10599}

7062 Pathogen[ P03410] interacts with 5 human partners:{P10599;P35754;O76003;P13667;Q9H299}

7063 Pathogen[ P14075] interacts with 1 human partners:{P10599}

7064 Pathogen[ P0C206] interacts with 6 human partners:{Q9H299;Q9NS18;P35754;O76003;P10599;P13667}

7065 Pathogen[ P03363] interacts with 4 human partners:{Q9H299;O76003;P35754;O43396}

7066 [Cluster 643]GO:0070577+F molecular\_function [name] histone acetyl-lysine binding [def] "Interacting selectively and non-covalently with an acetylated lysine residue within a histone." [GOC

7067 Pathogen[ Q2Q067] interacts with 11 human partners:{Q15059;Q9NPI1;P25440;P51532;O15164;Q58F21;Q8WWQ0;Q8IZX4;Q9UIF9;P21675;Q86X55}

7068 Pathogen[ P0C214] interacts with 12 human partners:{Q58F21;Q15059;P21675;Q9UIF9;P25440;Q8WWQ0;Q8IZX4;Q9H8M2;O15164;Q9NPI1;Q86X55;P51532}

7069 Pathogen[ P03346] interacts with 12 human partners:{P51532;Q9NPI1;P25440;Q15059;Q58F21;Q8WWQ0;Q9UIF9;Q9H8M2;P21675;Q86X55;Q8IZX4;O15164}

7070 Pathogen[ Q85601] interacts with 12 human partners:{Q9H8M2;Q86X55;Q9UIF9;O15164;Q15059;Q8IZX4;P51532;Q8WWQ0;Q9NPI1;P21675;P25440;Q58F21}

7071 Pathogen[ P14079] interacts with 11 human partners:{Q9NPI1;O15164;Q8IZX4;Q9H8M2;Q58F21;P51532;Q8WWQ0;Q15059;Q9UIF9;P25440;P2167

5}  
7072 Pathogen[ P03383] interacts with 10 human  
partners:{P25440;Q86X55;Q8IZX4;Q9UIF9;Q58F21;P21675;Q15059;Q8WWQ0;P51532;Q9NPI1}  
7073 Pathogen[ P03410] interacts with 11 human  
partners:{Q8IZX4;P21675;Q86X55;Q15059;Q9H8M2;Q8WWQ0;P51532;Q9UIF9;Q58F21;Q9NPI1;P25440}  
7074 Pathogen[ P14075] interacts with 10 human  
partners:{Q15059;P21675;Q8WWQ0;P25440;Q9NPI1;P51532;Q58F21;Q86X55;Q9UIF9;Q8IZX4}  
7075 Pathogen[ P0C206] interacts with 13 human  
partners:{P51532;Q9NPI1;Q86X55;O15164;Q8WWQ0;Q8IZX4;Q9H8M2;Q9UIF9;P25440;Q15059;Q58F21;Q9UIG0;P21675}  
7076 Pathogen[ P03363] interacts with 11 human  
partners:{Q8IZX4;Q8WWQ0;Q9H8M2;Q58F21;P51532;Q9UIF9;Q9NPI1;P21675;P25440;Q15059;Q86X55}  
7077 [Cluster 644]GO:0019213+F molecular\_function [name] deacetylase activity [def]  
"Catalysis of the hydrolysis of an acetyl group or groups from a substrate molecule." [GOC]  
7078 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BQ69}  
7079 Pathogen[ P0C214] interacts with 1 human partners:{Q9BQ69}  
7080 Pathogen[ P03346] interacts with 1 human partners:{Q9BQ69}  
7081 Pathogen[ Q85601] interacts with 1 human partners:{Q9BQ69}  
7082 Pathogen[ P14079] interacts with 1 human partners:{Q9Y530}  
7083 Pathogen[ P03383] interacts with 1 human partners:{Q9BQ69}  
7084 Pathogen[ P03410] interacts with 2 human partners:{Q9Y530;Q9BQ69}  
7085 Pathogen[ P14075] interacts with 1 human partners:{Q9BQ69}  
7086 Pathogen[ P0C206] interacts with 2 human partners:{Q9Y530;Q9BQ69}  
7087 Pathogen[ P03363] interacts with 1 human partners:{Q9BQ69}  
7088 [Cluster 645]GO:000403+F molecular\_function [name] Y-form DNA binding [def]  
"Interacting selectively and non-covalently with segment of DNA shaped like a Y. This shape occurs when DNA contains a region of paired double-stranded DNA on one end and a region of unpaired DNA strands on the opposite end." [GOC]  
7089 Pathogen[ Q2Q067] interacts with 1 human partners:{O00255}  
7090 Pathogen[ P0C214] interacts with 2 human partners:{P20585;O00255}  
7091 Pathogen[ P03346] interacts with 3 human partners:{Q9NS91;O00255;P20585}  
7092 Pathogen[ Q85601] interacts with 3 human partners:{P20585;O00255;Q9NS91}  
7093 Pathogen[ P14079] interacts with 2 human partners:{P20585;O00255}  
7094 Pathogen[ P03383] interacts with 1 human partners:{O00255}  
7095 Pathogen[ P03410] interacts with 2 human partners:{P20585;O00255}  
7096 Pathogen[ P14075] interacts with 1 human partners:{O00255}  
7097 Pathogen[ P0C206] interacts with 3 human partners:{O00255;Q9NS91;P20585}  
7098 Pathogen[ P03363] interacts with 2 human partners:{P20585;Q9NS91}  
7099 [Cluster 646]GO:0005509+F molecular\_function [name] calcium ion binding [def]  
"Interacting selectively and non-covalently with calcium ions (Ca2+)." [GOC]  
7100 Pathogen[ Q2Q067] interacts with 56 human  
partners:{Q12798;P50995;O75340;Q15293;P40763;Q08209;Q12982;Q9BSW2;P30793;Q9ULC6;P60660;Q96P71;Q9Y2J8;Q01196;P08133;Q7Z6G3;O00423;Q8IX12;P26447;O14829;Q14765;P27797;O43745;O15162;Q9Y5P8;O94811;Q5THR3;P20073;Q16143;P31949;P46939;Q96FQ6;P06396;Q969Q6;Q9H8M7;P25815;Q8IY85;Q9NZU7;Q9ULW8;P52630;Q9UM07;P41208;Q8N987;O75154;O15182;Q96D15;P16455;Q8N4C6;P55327;P42226;P22681;P23297;P42224;Q6TGC4;Q8NFH8;P14625}  
7101 Pathogen[ P0C214] interacts with 61 human  
partners:{P22681;P05937;P14625;Q8IX12;O14829;Q969Q6;Q7Z6G3;O94811;P42226;Q14765;P62166;P08133;P14649;P60660;P42224;O00423;O43745;O75340;P06396;O14561;Q9UM07;P30793;Q12798;Q9ULC6;Q6TGC4;Q96K9;O15162;Q12982;P46939;Q9H8M7;Q08209;Q9ULW8;Q8IY85;Q96P71;Q9NZU7;Q95202;Q96D15;P25815;P41208;P16455;Q9P0J1;Q5THR3;P26447;Q9Y2J8;P27797;P31949;P55327;Q9BSW2;Q16143;P40763;Q9Y5P8;Q96FQ6;Q8N4C6;Q8NFH8;Q15293;P52630;P20073;P50995;P23297;P80303;O75154}  
7102 Pathogen[ P03346] interacts with 83 human  
partners:{Q9ULC6;Q99828;P02549;Q8IX12;Q60660;O14829;Q96FQ6;P80303;Q6TGC4;Q96P71;P55327;Q8NFH8;P14625;P20073;P25815;P23297;Q9UJ72;Q9Y2J8;Q9UBV8;Q9NZU7;P42226;P06703;Q8WWZ8;Q969G9;P05937;P46939;Q13813;Q9Y5P8;P14649;P41208;P08133;Q96D15;Q13609;O75340;O00423;Q5THR3;Q06190;Q13938;Q8TD86;P42566;Q16143;P42224;Q9ULW8;P63316;P26447;Q969Q6;O94811;P50995;P62166;P27797;Q9UM07;Q9Y2I6;Q92832;Q969F2;Q12798;Q01196;Q9BSW2;Q86YS3;P22681;P06396;Q9H8M7;Q96D71;O15182;O75154;Q8N4C6;Q6ZN04;Q08209;Q14765;Q12982;Q15293;O95202;P52630;Q9ULU8;Q9Y2J0;Q8N987;P40763;Q7Z6G3;P10916;P31949;Q8IY85;O43745;Q6ZJW1;O15162}  
7103 Pathogen[ Q85601] interacts with 62 human  
partners:{Q96FQ6;Q9ULW8;Q9NZU7;P22681;P26447;O14829;P06396;O75154;Q14765;Q15293;O15182;Q12798;P50995;Q86YS3;P14649;Q9H8M7;P16455;Q9UM07;P40763;Q12982;Q6ZJW1;Q6TGC4;P80303;Q8IX12;Q7Z6G3;P27797;Q9Y2I6;P23297;Q96D15;O43745;P30793;Q08209;P52630;O00423;O94811;Q9Y2J8;P42226;Q8NFH8;P46939;Q9BW30;P25815;Q9ULC6;P42224;O75340;P20073;Q5THR3;P31949;Q8IY85;P14625;P08133;Q8TD86;Q96P71;O15162;Q8N4C6;P60660;P62166;Q14257;Q969Q6;Q9BSW2;Q9Y5P8;Q16143;P41208}  
7104 Pathogen[ P14079] interacts with 106 human  
partners:{P04083;Q5THR3;Q9NRQ2;P05937;Q8IX12;Q15293;P09327;Q12982;P27216;P55327;O15162;Q96P71;Q13609;P52630;O43745;Q96A33;Q5D862;Q9ULC6;A4FU69;P50995;Q7Z6G3;Q9ULU8;P16298;Q9BSW2;Q96D15;P31949;Q5JST6;Q8N987;Q8N0U7;P42566;Q16143;Q8NCQ7;P10916;Q86YS3;Q5T2P8;P16455;O00423;Q32NB8;Q99828;Q14118;P30793;Q14765;P14649;P23327;P46939;P25815;Q9ULW8;Q

15078;Q9Y2J8;P42226;P80303;Q8IY85;O75952;P08758;Q16586;Q9Y6U3;Q8N4C6;P20930;O14829;Q5H9T9;Q8NFH8;O75340;P09525;Q92832;Q12798;O14561;P62166;O94811;P05814;P60660;Q9UBV8;O76027;P26447;P23297;Q13316;Q9NZ20;Q06190;P42224;Q9UPV7;P14625;P41208;P20073;Q969Q6;Q8TD86;Q6NXP0;Q9BW30;Q6TGC4;Q15493;O75154;O15182;P13928;P06703;Q9Y5P8;Q96KC9;Q9UM07;Q6ZJW1;Q9Y2I6;Q13813;P02549;Q9Y4J8;Q9H8M7;P51571;Q08209;O95202;Q9NZU7;P13693}

7105 Pathogen[ P03383] interacts with 30 human partners: {P50995;Q969Q6;Q8NFH8;P25815;O15162;P23297;O94811;P41208;P52630;Q12798;Q96P71;P42226;Q9ULW8;P46939;Q9Y5P8;Q9H8M7;Q9BSW2;Q6TGC4;Q9UM07;O43745;P14625;Q9Y2J8;Q8IX12;Q8N4C6;Q9ULC6;P20073;P08133;O75154;P27797;P06396}

7106 Pathogen[ P03410] interacts with 107 human partners: {P26447;O75154;Q9UPV7;Q969F2;Q96KC9;Q7Z6G3;Q15293;Q14257;P80303;Q8IX12;Q96D15;P50995;P10916;Q9Y2I6;Q9Y2J0;Q969Q6;Q08209;Q8TD86;Q6ZJW1;Q9UM07;Q96A33;P06396;Q13609;O76027;Q8NFH8;Q9NRQ2;O94811;P14625;O15182;Q14765;Q16143;Q12798;Q5THR3;Q5D862;P31949;Q9Y6U3;Q5JST6;P30793;P23327;P02549;Q06190;Q92832;Q9UBV8;Q9NRY6;P06703;Q9UMZ2;P25815;Q9UJ72;Q8N987;Q9ULC6;O75952;O15162;P20930;Q86YS3;P08133;Q8N0U7;Q99828;Q8IY85;P63098;Q8WWZ8;Q9BW30;O14561;Q96D71;P05937;P46939;Q969G9;P16455;P13693;P55327;Q9ULU8;Q8N4C6;Q14118;Q9NZ20;Q9NZU7;Q6TGC4;P42226;P20073;A4FU69;P52630;Q8NQC7;P23297;Q12982;P14649;Q9H8M7;Q9Y2J8;P63316;Q5H9T9;O75340;O43745;Q96P71;O00423;P60660;P62166;O95202;Q13813;P41208;Q15493;P40763;P42566;Q9BRK5;O14829;Q9Y5P8;Q9Y4J8;P05814;Q9ULW8;Q13316;P27797}

7107 Pathogen[ P14075] interacts with 37 human partners: {P52630;Q9Y5P8;O94811;Q9ULC6;P55327;Q9BSW2;P42226;Q9UM07;O15162;P08133;Q12798;Q8IX12;Q9Y2J8;Q5JST6;P20073;O14561;Q969Q6;P50995;P23327;Q96KC9;Q8N0U7;P46939;P27797;O43745;P06396;Q9ULW8;P41208;Q6TGC4;O75154;P25815;Q8N4C6;P30793;P14625;Q8NFH8;Q96P71;P23297;Q9H8M7}

7108 Pathogen[ P0C206] interacts with 90 human partners: {Q96P71;O75340;Q96A33;Q12982;O15182;P31949;P46939;Q06190;Q96KC9;O75952;Q8N0U7;P06396;Q9UPV7;Q96D15;P26447;Q99828;Q15493;P27797;Q9UBV8;Q969F2;Q8TD86;P62166;Q6ZJW1;O75154;Q8IY85;Q9Y2J0;O95202;P50995;O94811;P80303;P60660;P55327;Q9Y2J8;Q13316;Q7Z6G3;Q9UM07;P30793;Q9NZU7;P25815;O14561;P14649;Q8NFH8;Q6TGC4;Q969Q6;Q9Y4J8;Q9ULC6;Q6ZN04;Q5H9T9;Q9ULU8;P08133;P22681;Q15293;Q16143;Q13609;P23327;P40763;Q8IX12;O15162;P06703;Q5THR3;P42566;P42226;O14829;P41208;Q8N987;Q5JST6;Q08209;Q14765;Q92832;Q12798;Q14257;P23297;Q9ULW8;Q8N4C6;Q9UJ72;P42224;Q9BSW2;O00423;Q86YS3;P20073;Q9Y5P8;O43745;P16455;Q9H8M7;Q96FQ6;P52630;Q9BW30;Q969G9;Q9Y2I6;P14625}

7109 Pathogen[ P03363] interacts with 63 human partners: {P22681;P52630;Q9Y5P8;Q9Y2I6;P46939;Q14765;Q9Y2J8;O14829;P26447;Q969Q6;P14649;P02549;O75340;O94811;Q9H8M7;Q06190;P31949;Q9ULW8;Q969G9;Q99828;P41208;P25815;Q8NFH8;O00423;P20073;P42226;P50995;P06396;Q9UM07;Q96D15;Q9UBV8;Q13609;Q96P71;Q92832;Q9BW30;P08133;Q8IY85;Q15293;Q12798;P27797;Q9BSW2;Q6TGC4;Q8TD86;Q9NZU7;Q6ZJW1;Q7Z6G3;O75154;Q7Z7M0;Q5THR3;O15182;Q8IX12;P60660;O43745;Q8N4C6;Q13813;Q8N987;Q12982;P55327;Q9ULC6;Q16143;P23297;P10916;P05937}

7110 [Cluster 647]GO:0008853+F molecular\_function [name] exodeoxyribonuclease III activity [def] "Catalysis of the degradation of double-stranded DNA. It acts progressively in a 3' to 5' direction, releasing 5'-phosphomononucleotides." [EC

7111 Pathogen[ Q2Q067] interacts with 2 human partners: {Q99638;O60671}

7112 Pathogen[ P0C214] interacts with 2 human partners: {O60671;Q99638}

7113 Pathogen[ P03346] interacts with 2 human partners: {Q99638;O60671}

7114 Pathogen[ Q85601] interacts with 2 human partners: {O60671;Q99638}

7115 Pathogen[ P14079] interacts with 4 human partners: {O60671;Q9BQ50;Q9NSU2;Q99638}

7116 Pathogen[ P03383] interacts with 2 human partners: {O60671;Q99638}

7117 Pathogen[ P03410] interacts with 4 human partners: {Q9BQ50;Q9NSU2;Q99638;O60671}

7118 Pathogen[ P14075] interacts with 2 human partners: {O60671;Q99638}

7119 Pathogen[ P0C206] interacts with 3 human partners: {Q9NSU2;Q99638;O60671}

7120 Pathogen[ P03363] interacts with 3 human partners: {Q9BQ50;O60671;Q99638}

7121 [Cluster 648]GO:0016788+F molecular\_function [name] hydrolase activity, acting on ester bonds [def] "Catalysis of the hydrolysis of any ester bond." [GOC

7122 Pathogen[ Q2Q067] interacts with 9 human partners: {Q9Y2M0;Q7KZF4;Q9UBQ0;Q7KZ85;Q9UQ84;Q8TEA8;P39748;Q96FN9;P28715}

7123 Pathogen[ P0C214] interacts with 10 human partners: {Q8TEA8;Q7KZ85;Q9Y2M0;Q7KZF4;P28715;Q9UBQ0;P39748;Q9UQ84;Q96FN9;Q9Y3B8}

7124 Pathogen[ P03346] interacts with 12 human partners: {Q7KZ85;P28715;Q8TEA8;Q9UK59;Q9UBQ0;P45381;Q7KZF4;Q9UQ84;P10768;P39748;Q96FN9;Q9Y2M0}

7125 Pathogen[ Q85601] interacts with 10 human partners: {Q9Y2M0;P10768;Q9UQ84;Q8TEA8;Q7KZF4;P28715;Q7KZ85;Q9UBQ0;P39748;Q96FN9}

7126 Pathogen[ P14079] interacts with 18 human partners: {Q8TEA8;Q96FN9;Q9Y3B8;P28715;Q96BW5;Q96JX3;Q7KZ85;Q96HD9;O00519;P45381;Q6P1S2;Q9Y2M0;Q9UBQ0;Q7KZF4;Q9UQ84;Q9UK59;P39748;Q96FM1}

7127 Pathogen[ P03383] interacts with 6 human partners: {Q96FN9;Q7KZF4;Q9Y2M0;Q9UBQ0;Q8TEA8;Q7KZ85}

7128 Pathogen[ P03410] interacts with 18 human partners: {Q96HD9;O00519;P10768;Q9Y3B8;Q8TEA8;Q96FM1;Q7KZ85;P45381;Q9UK59;P39748;P28715;Q9UBQ0;Q96JX3;Q96BW5;Q7KZF4;Q9UQ84;Q9Y2M0;Q96FN9}

7129 Pathogen[ P14075] interacts with 6 human partners: {Q9UBQ0;Q7KZ85;Q96FN9;Q8TEA8;Q9Y2M0;Q7KZF4}

7130 Pathogen[ P0C206] interacts with 14 human partners: {Q9Y2M0;P28715;Q9UQ84;Q9UK59;Q7KZF4;P10768;Q9UBQ0;P45381;Q9Y3B8;Q7KZ85;Q96FN

9;Q96BW5;P39748;Q8TEA8}  
7131 Pathogen[ P03363] interacts with 7 human  
partners:{Q9Y2M0;P10768;Q7KZF4;Q7KZ85;Q9UBQ0;Q8TEA8;Q96FN9}  
7132 [Cluster 649]GO:0042809+F molecular\_function [name] vitamin D receptor binding [def]  
"Interacting selectively and non-covalently with the vitamin D receptor, a nuclear  
receptor that mediates the action of vitamin D by binding DNA and controlling the  
transcription of hormone-sensitive genes." [GOC  
7133 Pathogen[ Q2Q067] interacts with 14 human  
partners:{Q96HR3;Q9NPJ6;Q93074;O75448;O60244;P28702;O43593;Q14106;Q9UHV7;Q15544;Q9NVC  
6;Q9Y2X0;Q15545;Q9Y2W1}  
7134 Pathogen[ P0C214] interacts with 13 human  
partners:{Q9Y2X0;Q93074;Q96HR3;Q9NVC6;Q15545;O60244;Q15544;O43593;Q9UHV7;O75448;Q1410  
6;Q9Y2W1;Q9NPJ6}  
7135 Pathogen[ P03346] interacts with 14 human  
partners:{Q9NPJ6;Q96HR3;Q93074;O60244;O43593;O75448;P28702;Q9NVC6;Q14106;Q9Y2X0;Q1554  
5;Q9Y2W1;Q15544;Q9UHV7}  
7136 Pathogen[ Q85601] interacts with 14 human  
partners:{Q9Y2X0;Q9UHV7;P28702;Q15545;Q14106;O75448;O43593;Q9Y2W1;O60244;Q96HR3;Q9307  
4;Q15544;Q9NPJ6;Q9NVC6}  
7137 Pathogen[ P14079] interacts with 13 human  
partners:{O60244;Q9Y2X0;Q96HR3;Q9NVC6;Q14106;O75448;Q9UHV7;P28702;Q9NPJ6;Q93074;O4359  
3;Q9Y2W1;Q15545}  
7138 Pathogen[ P03383] interacts with 13 human  
partners:{Q15544;Q14106;O60244;Q9NPJ6;Q93074;Q96HR3;O75448;P28702;Q9UHV7;Q9NVC6;Q1554  
5;Q9Y2W1;Q9Y2X0}  
7139 Pathogen[ P03410] interacts with 14 human  
partners:{Q9Y2W1;Q9NVC6;Q9NPJ6;Q14106;P28702;Q96HR3;Q15544;O60244;Q9UHV7;Q9Y2X0;Q9307  
4;O75448;Q15545;O43593}  
7140 Pathogen[ P14075] interacts with 13 human  
partners:{Q9NPJ6;Q96HR3;Q15544;O75448;Q93074;Q14106;Q9UHV7;O60244;Q15545;P28702;Q9NVC  
6;Q9Y2W1;Q9Y2X0}  
7141 Pathogen[ P0C206] interacts with 15 human  
partners:{Q96HR3;Q15545;Q15544;Q9UHV7;Q14106;Q9NPJ6;Q9Y2W1;O60244;P28702;Q9NVC6;O7544  
8;Q9Y2X0;O43593;Q93074;Q9UIG0}  
7142 Pathogen[ P03363] interacts with 12 human  
partners:{Q96HR3;Q15545;O43593;P28702;Q15544;Q9NVC6;Q9UHV7;Q14106;Q93074;O75448;Q9NPJ  
6;O60244}  
7143 [Cluster 650]GO:0050816+F molecular\_function [name] phosphothreonine binding [def]  
"Interacting selectively and non-covalently with a phosphorylated threonine residue  
within a protein." [GOC  
7144 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13526}  
7145 Pathogen[ P0C214] interacts with 1 human partners:{Q13526}  
7146 Pathogen[ P03346] interacts with 1 human partners:{Q13526}  
7147 Pathogen[ Q85601] interacts with 1 human partners:{Q13526}  
7148 Pathogen[ P14079] interacts with 1 human partners:{Q13526}  
7149 Pathogen[ P03383] interacts with 1 human partners:{Q13526}  
7150 Pathogen[ P03410] interacts with 1 human partners:{Q13526}  
7151 Pathogen[ P14075] interacts with 1 human partners:{Q13526}  
7152 Pathogen[ P0C206] interacts with 1 human partners:{Q13526}  
7153 Pathogen[ P03363] interacts with 1 human partners:{Q13526}  
7154 [Cluster 651]GO:0047617+F molecular\_function [name] acyl-CoA hydrolase activity [def]  
"Catalysis of the reaction  
7155 Pathogen[ Q2Q067] interacts with 2 human partners:{O14734;Q86TX2}  
7156 Pathogen[ P0C214] interacts with 4 human partners:{Q86TX2;O00154;O14734;Q9NPJ3}  
7157 Pathogen[ P03346] interacts with 3 human partners:{Q86TX2;O14734;Q9NPJ3}  
7158 Pathogen[ Q85601] interacts with 2 human partners:{Q86TX2;O14734}  
7159 Pathogen[ P14079] interacts with 5 human  
partners:{P49753;Q9NPJ3;O14734;Q86TX2;Q8WXI4}  
7160 Pathogen[ P03383] interacts with 1 human partners:{O14734}  
7161 Pathogen[ P03410] interacts with 6 human  
partners:{Q9NPJ3;Q8WXI4;O14734;O00154;Q86TX2;P49753}  
7162 Pathogen[ P14075] interacts with 1 human partners:{O14734}  
7163 Pathogen[ P0C206] interacts with 4 human partners:{Q9NPJ3;Q8WXI4;Q86TX2;O14734}  
7164 Pathogen[ P03363] interacts with 2 human partners:{O14734;Q9NPJ3}  
7165 [Cluster 652]GO:0008565+F molecular\_function [name] protein transporter activity [def]  
"Enables the directed movement of proteins into, out of or within a cell, or between  
cells." [ISBN  
7166 Pathogen[ Q2Q067] interacts with 44 human  
partners:{Q14974;Q9UI26;O60684;O94973;O00410;Q10567;P56377;Q96QU8;O43747;O95782;Q9257  
2;Q9H2T7;Q96DC7;O94829;Q53FT3;Q96P70;Q92973;P63010;Q96PC3;O14980;O15131;O14787;Q8TEX9  
;Q14746;P61966;A9QM74;P55060;O75843;Q96JB2;O00505;Q9UIA9;Q9NRA8;Q9HAV4;O75436;O15397;  
O95373;O00629;P52292;O60763;O43592;Q8WUX9;P52294;Q13367;O95149}  
7167 Pathogen[ P0C214] interacts with 46 human  
partners:{O94829;Q8TEX9;Q9UI26;A9QM74;Q14746;Q9UIA9;O14787;Q8WUX9;P55060;Q96P70;P5978  
0;Q13367;O60684;Q9HAV4;O95149;O15131;O75843;Q96DC7;Q96QU8;Q53FT3;P63010;Q10567;Q92572  
;O14980;P52294;P56377;O43592;Q96PC3;O60763;O00505;O43747;O75436;O94973;Q9UJ9;Q92973;



7168 Pathogen[ P03346] interacts with 55 human  
partners: {Q13596; Q8TEX9; Q9UI26; P61966; Q96P70; Q14746; O00629; O15397; Q9HAV4; Q9Y6B7; O95149; Q99598; Q9H2T7; Q96JB2; P63010; O14787; Q96DC7; O43747; Q92572; P53680; P56377; Q96QU8; P59780; Q96T51; O00410; O95782; O00505; P55060; Q9UIA9; Q9NRS6; O43592; Q10567; O75843; O14980; Q7Z3T8; Q92973; Q9Y587; O95373; O15131; Q96PC3; A9QM74; O60763; O75436; Q13367; P52292; O60684; O14617; O60749; Q9NRA8; O94829; O94973; P52294; Q53FT3; Q8WUX9; Q14974}

7169 Pathogen[ Q85601] interacts with 51 human  
partners: {Q13367; Q13596; Q9UI26; Q14746; O00629; Q53FT3; O75843; Q9HAV4; Q9UIA9; O95149; Q96DC7; Q96P70; O60763; P56377; Q9UJH9; Q96T51; Q96JB2; O43747; Q9NP61; Q10567; Q14974; Q8WUX9; O94829; O15131; O95373; P55060; Q92973; Q96QU8; Q8TEX9; A9QM74; P53680; O14787; O14980; O94973; Q96PC3; O75436; Q9Y6B7; P52292; O15397; Q9NRA8; P63010; Q9H2T7; Q92572; P61966; P59780; O00505; O60684; O43592; P52294; O00410; O95782}

7170 Pathogen[ P14079] interacts with 59 human  
partners: {Q96DC7; O95373; Q8N4H5; Q14746; P61966; Q96P70; Q10567; O43592; P56377; P52294; Q9Y6B7; O60684; P59780; O60895; Q99442; Q9NRS6; O95149; Q92572; O75843; Q9UJH9; O95782; Q53FT3; Q96T51; O94829; O00410; Q9UI26; Q8WUX9; Q14974; P55060; Q92973; O60749; P60059; P63010; O15397; A9QM74; Q13596; O00505; O94973; Q8TEX9; Q7Z3T8; Q13367; O43747; O14787; Q9UIA9; Q99598; Q9HAV4; Q96JB2; O14617; O75436; Q96PC3; Q9H2T7; Q96QU8; Q9NRA8; O00629; P53680; P52292; O15131; Q9Y587; O60763}

7171 Pathogen[ P03383] interacts with 39 human  
partners: {Q9UI26; P56377; Q14746; Q9UIA9; O15397; Q92572; O94829; Q8WUX9; Q10567; Q96P70; Q96JB2; O00505; A9QM74; P55060; P52292; Q9H2T7; O75843; Q92973; P63010; O14980; O43747; Q9HAV4; O95149; O95782; O14787; Q14974; O15131; O75436; Q13367; Q53FT3; Q96QU8; Q9NRA8; O95373; O43592; O94973; O00629; P52294; Q96DC7; O00410}

7172 Pathogen[ P03410] interacts with 64 human  
partners: {Q8N4H5; O00203; O95782; Q96PC3; Q14974; A9QM74; O00505; Q99442; P53680; Q96JB2; O60896; P60059; Q13596; O60895; P52294; P55060; O43747; O75843; O60749; Q96QU8; Q96P70; Q10567; Q9NRA8; Q92572; Q53FT3; Q8TEX9; O14617; Q9Y587; Q9Y6B7; Q9UJH9; Q8WUX9; O60763; O00629; O60684; Q92973; O14787; Q9NP61; O94829; Q15049; O75436; Q9NRS6; Q99598; Q96T51; P63010; Q9H2T7; Q14746; O00410; P59780; Q9UI26; Q13367; P52292; Q9HAV4; O43592; P61966; Q9UIA9; O15131; O94973; P56377; O15397; Q7Z3T8; O14980; O95373; Q96DC7; O95149}

7173 Pathogen[ P14075] interacts with 40 human  
partners: {Q9UI26; P52292; O15131; Q14746; Q96JB2; Q53FT3; O94973; Q96P70; Q9H2T7; O14787; Q8WUX9; Q92973; O00629; O15397; Q9HAV4; O43592; O00505; O14980; P52294; O95373; Q9UJH9; O95782; O00410; O43747; Q9UIA9; Q96DC7; Q92572; O95149; O94829; O75436; P63010; Q96QU8; A9QM74; O75843; P56377; Q9NRA8; Q14974; Q10567; P55060; Q13367}

7174 Pathogen[ P0C206] interacts with 57 human  
partners: {P53680; P63010; O15131; Q8WUX9; Q9Y6B7; O94973; Q96DC7; O95149; Q92572; O43592; O43747; Q9UJH9; Q10567; Q9NRS6; A9QM74; Q99598; O00629; O60684; P61966; Q14974; Q96QU8; O00505; Q96T51; Q96P70; O15397; Q96JB2; O94829; Q14746; Q13596; Q92973; O00410; Q9HAV4; Q9NP61; O95782; P55060; O75436; Q14617; O75843; Q9UIA9; P52294; Q96PC3; Q8N4H5; Q53FT3; P52292; Q13367; P56377; Q9UI26; Q9NRA8}

7175 Pathogen[ P03363] interacts with 46 human  
partners: {O60763; Q53FT3; O14787; Q92973; O60684; Q99598; Q9NRA8; Q13367; O43747; Q9HAV4; A9QM74; O14980; O00410; Q9H2T7; O00505; O75436; Q96P70; Q96DC7; Q9Y6B7; O00629; Q96T51; O94973; O60749; Q14746; Q92572; Q96QU8; Q8TEX9; P63010; Q14974; O95782; O94829; O15131; O75843; Q9UI26; O95373; Q13596; P55060; O43592; P52292; O95149; Q8WUX9; Q10567; Q9UIA9; O15397; P52294; Q96JB2}

7176 [Cluster 653]GO:0008429+F molecular\_function [name] phosphatidylethanolamine binding [def] "Interacting selectively and non-covalently with phosphatidylethanolamine, any of a class of glycerophospholipids in which a phosphatidyl group is esterified to the hydroxyl group of ethanolamine." [ISBN

7177 Pathogen[ Q2Q067] interacts with 1 human partners: {P50995}

7178 Pathogen[ P0C214] interacts with 2 human partners: {P50995; Q9H492}

7179 Pathogen[ P03346] interacts with 2 human partners: {Q9H492; P50995}

7180 Pathogen[ Q85601] interacts with 2 human partners: {Q9H492; P50995}

7181 Pathogen[ P14079] interacts with 2 human partners: {P50995; Q9H492}

7182 Pathogen[ P03383] interacts with 1 human partners: {P50995}

7183 Pathogen[ P03410] interacts with 2 human partners: {P50995; Q9H492}

7184 Pathogen[ P14075] interacts with 1 human partners: {P50995}

7185 Pathogen[ P0C206] interacts with 2 human partners: {P50995; Q9H492}

7186 Pathogen[ P03363] interacts with 2 human partners: {Q9H492; P50995}

7187 [Cluster 654]GO:0016772+F molecular\_function [name] transferase activity, transferring phosphorus-containing groups [def] "Catalysis of the transfer of a phosphorus-containing group from one compound (donor) to another (acceptor)." [GOC

7188 Pathogen[ Q2Q067] interacts with 18 human  
partners: {Q9Y4A5; P31749; O14757; O75582; O96017; P50750; Q13233; P50613; Q96RU7; O14920; P45984; O43318; P49336; P24941; P11802; O15111; Q15759; Q00534}

7189 Pathogen[ P0C214] interacts with 23 human  
partners: {O15111; Q14164; P50750; P50613; P11802; O94921; P12277; O43318; Q00534; Q13233; P21127; Q00536; O96017; P49336; P24941; Q9Y4A5; O75582; Q96RU7; Q15759; P45984; O14757; O14920; P31749}

7190 Pathogen[ P03346] interacts with 32 human  
partners: {P45984; Q00536; O15111; O96017; P21127; P49336; P24941; O14757; Q8IZE3; Q86Z02; Q6P3W7; P11802; Q496M5; P31749; Q9Y4A5; Q8TD19; P50750; Q13233; O75582; Q96RU7; Q15759; Q96PY6; P45985; Q00534; Q96KG9; O14920; O94921; O43318; O14965; Q14164; Q8NB16; O00444}

7191 Pathogen[ Q85601] interacts with 27 human

partners:{Q00536;P31749;O96017;P50750;Q96PY6;O15111;P49336;Q9Y4A5;P11802;O14757;O14965;Q14164;O14920;O94921;O75582;P50613;Q96RU7;Q15759;P45984;P21127;Q96KG9;Q13233;Q00534;O43318;Q496M5;P24941;P51955}

7192 Pathogen[ P14079] interacts with 24 human partners:{P31751;Q14004;Q9Y4A5;O43187;P53779;P49336;P52564;Q86TN4;O75582;Q14164;P45984;A2RU49;P45983;P50613;P51955;Q16644;Q15759;P45985;P21127;Q96RU7;Q13164;O14965;P50750;Q96KG9}

7193 Pathogen[ P03383] interacts with 25 human partners:{Q9NYV4;O14757;O75582;Q13233;Q8TD19;O14920;Q9Y4A5;P31749;O15111;Q00536;Q00534;P11802;O43318;P21127;P49336;P50613;P24941;P50750;Q15759;O94921;O14965;Q96RU7;Q96PY6;P45984;O96017}

7194 Pathogen[ P03410] interacts with 26 human partners:{O14920;Q8IZE3;Q00534;Q8NB16;O15111;O75582;O43187;P31749;A2RU49;Q13233;P50613;O14965;P50750;O43318;Q9Y4A5;Q96KG9;P45985;P24941;P11802;O96017;O14757;P49336;Q96RU7;P45984;P53779;Q86TN4}

7195 Pathogen[ P14075] interacts with 25 human partners:{P49336;O15111;P24941;P11802;Q15759;O75582;P50613;Q00534;P50750;Q9Y4A5;O14920;P31749;O96017;O14965;O43318;P21127;Q96RU7;Q96PY6;Q13233;O94921;Q9UQ88;Q9NYV4;O14757;P45984;Q8TD19}

7196 Pathogen[ P0C206] interacts with 33 human partners:{P49336;Q496M5;O14920;P31749;P50750;O96017;P51955;O75582;P45984;Q00536;O43318;Q96PY6;O00444;Q8TD19;Q96KG9;Q6P3W7;Q13233;Q96RU7;P30291;Q14164;P50613;Q9Y4A5;O15111;P45985;P21127;O14965;P24941;Q15759;P11802;O94921;Q99640;Q99986;Q00534}

7197 Pathogen[ P03363] interacts with 18 human partners:{O14920;P21127;O15111;O43318;P24941;O96017;Q00534;P31749;Q8NB16;Q96KG9;P49336;Q9Y4A5;P50750;Q8IZE3;P11802;Q00536;Q13233;O14757}

7198 [Cluster 655]GO:0008553+F molecular\_function [name] hydrogen-exporting ATPase activity, phosphorylative mechanism [def] "Catalysis of the transfer of a solute or solutes from one side of a membrane to the other according to the reaction

7199 Pathogen[ Q2Q067] interacts with 1 human partners:{P36543}

7200 Pathogen[ P0C214] interacts with 1 human partners:{P36543}

7201 Pathogen[ P03346] interacts with 2 human partners:{P21283;P36543}

7202 Pathogen[ Q85601] interacts with 1 human partners:{P36543}

7203 Pathogen[ P14079] interacts with 3 human partners:{P36543;P61421;Q96LB4}

7204 Pathogen[ P03383] interacts with 1 human partners:{P36543}

7205 Pathogen[ P03410] interacts with 3 human partners:{P61421;Q96LB4;P36543}

7206 Pathogen[ P14075] interacts with 1 human partners:{P36543}

7207 Pathogen[ P0C206] interacts with 1 human partners:{P36543}

7208 Pathogen[ P03363] interacts with 1 human partners:{P36543}

7209 [Cluster 656]GO:0016538+F molecular\_function [name] cyclin-dependent protein kinase regulator activity [def] "Modulates the activity of a cyclin-dependent protein kinase, enzymes of the protein kinase family that are regulated through association with cyclins and other proteins." [GOC

7210 Pathogen[ Q2Q067] interacts with 7 human partners:{P24385;P61024;P24864;O96020;P33552;Q8TDN4;Q8ND76}

7211 Pathogen[ P0C214] interacts with 7 human partners:{Q8ND76;P61024;P24385;Q8TDN4;P24864;P33552;O96020}

7212 Pathogen[ P03346] interacts with 8 human partners:{Q8ND76;P24385;O96020;P24864;P61024;Q8TDN4;P33552;Q9BT7}

7213 Pathogen[ Q85601] interacts with 7 human partners:{P24385;Q8ND76;P61024;Q8TDN4;O96020;P33552;P24864}

7214 Pathogen[ P14079] interacts with 7 human partners:{P24864;Q9BT7;Q8ND76;P33552;Q8TDN4;O96020;P61024}

7215 Pathogen[ P03383] interacts with 7 human partners:{P61024;P24385;P33552;O96020;Q8TDN4;Q8ND76;P24864}

7216 Pathogen[ P03410] interacts with 8 human partners:{Q9BT7;O96020;P24385;P33552;P61024;Q8TDN4;P24864;Q8ND76}

7217 Pathogen[ P14075] interacts with 7 human partners:{P61024;O96020;Q8ND76;P24385;Q8TDN4;P33552;P24864}

7218 Pathogen[ P0C206] interacts with 8 human partners:{P61024;Q8TDN4;O96020;P33552;Q8ND76;Q9BT7;P24864;P24385}

7219 Pathogen[ P03363] interacts with 7 human partners:{P24864;P33552;Q8ND76;O96020;P61024;P24385;Q8TDN4}

7220 [Cluster 657]GO:0017089+F molecular\_function [name] glycolipid transporter activity [def] "Enables the directed movement of glycolipids, compounds containing (usually) 1-4 linked monosaccharide residues joined by a glycosyl linkage to a lipid, into, out of or within a cell, or between cells." [GOC

7221 Pathogen[ Q2Q067] interacts with 2 human partners:{A6NH11;O95397}

7222 Pathogen[ P0C214] interacts with 2 human partners:{A6NH11;O95397}

7223 Pathogen[ P03346] interacts with 3 human partners:{O95397;Q5TA50;A6NH11}

7224 Pathogen[ Q85601] interacts with 1 human partners:{O95397}

7225 Pathogen[ P14079] interacts with 4 human partners:{A6NH11;Q5TA50;O95397;Q9NZD2}

7226 Pathogen[ P03383] interacts with 2 human partners:{A6NH11;O95397}

7227 Pathogen[ P03410] interacts with 4 human partners:{Q5TA50;A6NH11;Q9NZD2;O95397}

7228 Pathogen[ P14075] interacts with 3 human partners:{O95397;A6NH11;Q5TA50}

7229 Pathogen[ P0C206] interacts with 4 human partners:{O95397;Q9NZD2;A6NH11;Q5TA50}

7230 Pathogen[ P03363] interacts with 3 human partners:{Q5TA50;O95397;A6NH11}

7231 [Cluster 658]GO:0004879+F molecular\_function [name] ligand-activated sequence-specific DNA binding RNA polymerase II transcription factor activity [def] "Combining with a signal and transmitting the signal to the transcriptional machinery by interacting selectively and non-covalently with a specific DNA sequence in order to modulate transcription by RNA polymerase II." [GOC

7232 Pathogen[ Q2Q067] interacts with 8 human partners:{P10827;P40763;P10589;P28702;P35869;P55055;P11474;P22736}

7233 Pathogen[ P0C214] interacts with 3 human partners:{P35869;P11474;P40763}

7234 Pathogen[ P03346] interacts with 16 human partners:{P10827;P06401;P10588;P51843;P28702;P22736;O95718;O75469;P11474;P35869;O00482;P40763;P35398;Q13285;P55055;P10589}

7235 Pathogen[ Q85601] interacts with 9 human partners:{P40763;P28702;P55055;P22736;P11474;P10827;O00482;P35869;P10589}

7236 Pathogen[ P14079] interacts with 13 human partners:{P55055;P35869;P35398;P11474;P22736;P10827;O95718;O00482;O75469;P28702;P10588;Q8WWB7;P10589}

7237 Pathogen[ P03383] interacts with 3 human partners:{P11474;P28702;P35869}

7238 Pathogen[ P03410] interacts with 6 human partners:{P22736;P28702;Q8WWB7;P11474;P10589;P40763}

7239 Pathogen[ P14075] interacts with 3 human partners:{P35869;P11474;P28702}

7240 Pathogen[ P0C206] interacts with 15 human partners:{P10588;P35398;P06401;P35869;O75469;P55055;P22736;O00482;P10589;O95718;Q8WWB7;P40763;P28702;P11474;P10827}

7241 Pathogen[ P03363] interacts with 7 human partners:{P11474;P35869;P10588;P28702;P35398;P10589;O00482}

7242 [Cluster 659]GO:0032557+F molecular\_function [name] pyrimidine ribonucleotide binding [def] "Interacting selectively and non-covalently with a pyrimidine ribonucleotide, any compound consisting of a pyrimidine ribonucleoside that is esterified with (ortho)phosphate or an oligophosphate at any hydroxyl group on the ribose moiety." [GOC

7243 Pathogen[ Q2Q067] interacts with 1 human partners:{Q16851}

7244 Pathogen[ P0C214] interacts with 1 human partners:{Q16851}

7245 Pathogen[ P03346] interacts with 1 human partners:{Q16851}

7246 Pathogen[ Q85601] interacts with 1 human partners:{Q16851}

7247 Pathogen[ P14079] interacts with 1 human partners:{Q16851}

7248 Pathogen[ P03383] interacts with 1 human partners:{Q16851}

7249 Pathogen[ P03410] interacts with 1 human partners:{Q16851}

7250 Pathogen[ P14075] interacts with 1 human partners:{Q16851}

7251 Pathogen[ P0C206] interacts with 1 human partners:{Q16851}

7252 Pathogen[ P03363] interacts with 1 human partners:{Q16851}

7253 [Cluster 660]GO:0008536+F molecular\_function [name] Ran GTPase binding [def] "Interacting selectively and non-covalently with Ran, a conserved Ras-like GTP-binding protein, implicated in nucleocytoplasmic transport, cell cycle progression, spindle assembly, nuclear organization and nuclear envelope (NE) assembly." [GOC

7254 Pathogen[ Q2Q067] interacts with 11 human partners:{Q6VN20;O00410;P49790;P49792;Q96S59;O15397;O95373;Q9H6Z4;Q9UKK6;P43487;O15392}

7255 Pathogen[ P0C214] interacts with 10 human partners:{P43487;P49792;P49790;Q96S59;Q9UKK6;O15392;Q6VN20;O95373;Q9H6Z4;O15397}

7256 Pathogen[ P03346] interacts with 12 human partners:{O15397;O15392;P43487;O00410;Q96S59;O95373;Q6VN20;O14715;P49790;Q9H6Z4;Q9UKK6;P49792}

7257 Pathogen[ Q85601] interacts with 11 human partners:{P43487;O15392;Q9H6Z4;Q6VN20;Q9UKK6;Q96S59;O95373;O15397;P49792;P49790;O00410}

7258 Pathogen[ P14079] interacts with 10 human partners:{O95373;Q6VN20;O14715;O15392;O00410;Q9UKK6;O15397;P49790;Q9H6Z4;Q96S59}

7259 Pathogen[ P03383] interacts with 9 human partners:{P49792;O15397;P43487;Q96S59;Q9H6Z4;O95373;P49790;O00410;Q9UKK6}

7260 Pathogen[ P03410] interacts with 12 human partners:{O15392;Q96S59;Q6VN20;O14715;P49790;P43487;O00410;Q9H6Z4;O15397;Q9UKK6;O95373;P49792}

7261 Pathogen[ P14075] interacts with 9 human partners:{Q9H6Z4;P43487;P49792;O15397;Q96S59;O95373;O00410;P49790;Q9UKK6}

7262 Pathogen[ P0C206] interacts with 12 human partners:{P49790;Q9UKK6;O15397;O00410;P49792;Q6VN20;P43487;O95373;O15392;Q9H6Z4;Q96S59;O14715}

7263 Pathogen[ P03363] interacts with 10 human partners:{O00410;P43487;P49792;Q9UKK6;P49790;Q9H6Z4;O95373;Q6VN20;Q96S59;O15397}

7264 [Cluster 661]GO:0043621+F molecular\_function [name] protein self-association [def] "Interacting selectively and non-covalently with a domain within the same polypeptide." [GOC

7265 Pathogen[ Q2Q067] interacts with 10 human partners:{Q9P219;Q9UDY8;Q96IT1;O95999;P54253;O14641;O60299;Q9UID6;P40926;Q86U70}

7266 Pathogen[ P0C214] interacts with 11 human partners:{Q9UID6;P54253;Q9UDY8;O60299;P40926;Q8WXG1;Q96IT1;Q86U70;O14641;O95999;Q9P21

9}  
7267 Pathogen[ P03346] interacts with 10 human  
partners:{Q86U70;Q9UDY8;O95999;Q9P219;O14641;P40926;O60299;P54253;Q96IT1;Q9UID6}  
7268 Pathogen[ Q85601] interacts with 10 human  
partners:{Q86U70;Q9UDY8;Q9UID6;Q9P219;O14641;P54253;Q96IT1;O95999;P40926;O60299}  
7269 Pathogen[ P14079] interacts with 10 human  
partners:{O95999;O14641;P20933;Q86U70;Q9UID6;P54253;O60299;Q96IT1;Q9P219;Q8WXG1}  
7270 Pathogen[ P03383] interacts with 8 human  
partners:{P40926;Q86U70;O60299;Q9UID6;O14641;Q96IT1;O95999;P54253}  
7271 Pathogen[ P03410] interacts with 11 human  
partners:{Q9P219;O60299;Q8WXG1;O95999;Q86U70;Q96IT1;P40926;P20933;P54253;Q9UID6;O1464  
1}  
7272 Pathogen[ P14075] interacts with 8 human  
partners:{P54253;Q86U70;Q9UID6;Q96IT1;P40926;O14641;O60299;O95999}  
7273 Pathogen[ P0C206] interacts with 10 human  
partners:{Q9UID6;Q9UDY8;O95999;O60299;Q9P219;Q96IT1;P40926;Q86U70;Q8WXG1;P54253}  
7274 Pathogen[ P03363] interacts with 7 human  
partners:{Q86U70;P54253;Q96IT1;Q9P219;O60299;O14641;Q9UID6}  
7275 [Cluster 662]GO:0005200+F molecular\_function [name] structural constituent of  
cytoskeleton [def] "The action of a molecule that contributes to the structural  
integrity of a cytoskeletal structure." [GOC  
7276 Pathogen[ Q2Q067] interacts with 36 human  
partners:{P19012;O15511;Q01082;P35908;P02538;Q9Y615;Q9NSB2;P07196;O00291;Q15323;P0877  
9;O60437;P23490;P14136;P15924;P08727;O15061;P04264;P11532;P11171;Q04695;P35527;O94805  
;P23258;P13647;O95619;O60504;Q9UGJ1;P08670;P04259;P02533;P35900;Q16352;P07197;Q96CW5;  
P17661}  
7277 Pathogen[ P0C214] interacts with 43 human  
partners:{P60709;Q9Y615;P68133;O15061;P35527;P16157;P02538;P04264;P02533;P15924;Q1635  
2;Q9NSB2;P23258;Q13515;P14136;O60437;Q96CW5;P35908;Q9UGJ1;O95619;Q01082;P08779;P23490  
;P11532;Q04695;P08670;P19012;P04259;P08727;Q15323;Q96G01;P13647;O15144;O60504;P07197;  
O94805;P63261;P07196;O00291;P11171;O15511;P35900;P17661}  
7278 Pathogen[ P03346] interacts with 54 human  
partners:{O60437;Q96G01;P15924;P19012;P02538;Q16352;P02549;P07196;P08779;Q96RT1;P0872  
7;Q15323;O15511;Q13515;P23258;P35527;O15144;P11277;O94875;Q9H329;P60709;O15061;P14136  
;Q9Y5K6;Q96CW5;O00291;P16157;P26038;P16452;Q13813;P35908;P07197;Q01082;P11171;Q04695;  
Q9NSB2;P17661;P02533;Q9Y4G6;P23490;Q9UGJ1;O15145;O94805;Q9Y614;P08670;O95619;P35900;P  
13647;P11532;O60504;P04259;P04264;Q16204;Q9Y615}  
7279 Pathogen[ Q85601] interacts with 46 human  
partners:{O95619;O15511;P02538;P68133;P16157;P02533;P08779;Q96RT1;O60437;Q9Y5K6;P1766  
1;P07196;P08670;P14136;P11532;P11171;P04259;Q01082;Q96CW5;P60709;P23258;P15924;Q13515  
;Q04695;Q9UGJ1;P04264;P63261;Q96G01;P19012;Q15323;Q9Y615;Q16204;P08727;P07197;P13647;  
P35527;O60504;O00291;P35908;P35900;Q16352;O94805;P23490;Q9NSB2;O15144;O15061}  
7280 Pathogen[ P14079] interacts with 57 human  
partners:{P16452;P35900;O00291;P63261;Q9Y614;P08779;P35908;P11532;P11171;Q01082;P1592  
4;Q9UGJ1;P26038;P68363;Q9Y615;O60437;O60504;P16157;Q15323;P35527;Q9Y4G6;Q04695;P07196  
;P02533;Q96RT1;O15061;O15145;Q16204;O15511;P14136;O94805;P07197;Q14093;O15195;P23258;  
P23490;P35663;P60709;P11277;Q96G01;Q9Y5K6;Q13515;P08670;P04264;Q9UEY8;P17661;P04259;O  
95619;Q13813;P02549;P08727;Q9NSB2;P68133;O15144;P13647;Q96CW5;P10636}  
7281 Pathogen[ P03383] interacts with 33 human  
partners:{P23490;P15924;Q16352;P02533;P08727;Q13515;Q9NSB2;O94805;P08670;O15511;P1766  
1;Q96CW5;P14136;O15061;P35527;P08779;O00291;Q04695;P07197;P02538;P07196;P11532;P04264  
;Q15323;P35908;P13647;O60504;O95619;P04259;P19012;O60437;Q9Y615;P35900}  
7282 Pathogen[ P03410] interacts with 59 human  
partners:{O15511;O95619;P23490;P02533;P15924;Q96RT1;Q15323;Q9UEY8;Q9Y614;P17661;O1506  
1;Q9Y615;Q9H329;P04264;P16157;Q16352;P35527;P11532;O15145;Q13515;P16452;O00291;P02538  
;P02549;P07196;Q9Y5K6;P08779;P11171;O94805;P26038;P35908;P35663;Q96G01;P68133;Q9Y4G6;  
Q14093;P04259;O60504;Q04695;P08670;P10636;P23258;P68363;P35900;P14136;Q16204;P63261;Q  
01082;O15144;Q96CW5;Q9NSB2;P13647;Q13813;P08727;P11277;O60437;Q9UGJ1;P60709;P07197}  
7283 Pathogen[ P14075] interacts with 33 human  
partners:{Q16352;P11532;P08727;Q9NSB2;O95619;P17661;P14136;Q13515;P19012;P23490;O1506  
1;O15511;O00291;Q15323;Q04695;P35908;P08779;P04264;P04259;O94805;P08670;P07197;P13647  
;O60504;P07196;P35900;O60437;P02538;P35527;P02533;Q96CW5;P11171;P15924}  
7284 Pathogen[ P0C206] interacts with 52 human  
partners:{O15511;Q9NSB2;Q01082;P60709;P17661;Q96RT1;P08779;P07196;P35527;O60504;O0029  
1;O15061;P02538;P08727;Q96CW5;Q13515;P04264;Q9Y614;P19012;O15145;P10636;Q9UGJ1;O60437  
;P68133;P23490;P16157;P13647;O95619;P14136;P63261;Q16204;P16452;P23258;O15144;P15924;  
Q9Y5K6;P11277;P35663;P08670;P11532;P04259;Q16352;Q15323;P02533;Q9Y615;P35900;O94805;P  
35908;P11171;Q04695;Q96G01;P07197}  
7285 Pathogen[ P03363] interacts with 56 human  
partners:{Q9Y614;O95619;P02533;P08779;Q96RT1;P02538;P07197;P11277;Q16352;O15061;P0254  
9;P60709;P16157;O60437;P23490;Q01082;Q14093;P68363;P68133;Q15323;O94875;Q9Y4G6;P15924  
;P35908;P35900;P07196;Q16204;P08727;O15144;P13647;P04259;P35527;P11532;P08670;P17661;  
P11171;P14136;O94805;O15143;Q9Y615;Q9NSB2;P63261;Q9UGJ1;P16452;P23258;Q9H329;P04264;Q  
13813;Q9Y5K6;P35663;O00291;O15145;Q13515;O15511;Q04695;Q96CW5}  
7286 [Cluster 663]GO:0016505+F molecular\_function [name] apoptotic protease activator  
activity [def] "Increases the activity of a peptidase that is involved in the

activation of apoptosis." [GOC

7287 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UKL3}

7288 Pathogen[ P0C214] interacts with 2 human partners:{Q9UKL3;O14727}

7289 Pathogen[ P03346] interacts with 2 human partners:{Q9UKL3;O14727}

7290 Pathogen[ Q85601] interacts with 1 human partners:{Q9UKL3}

7291 Pathogen[ P14079] interacts with 2 human partners:{Q9UKL3;O00559}

7292 Pathogen[ P03383] interacts with 1 human partners:{Q9UKL3}

7293 Pathogen[ P03410] interacts with 2 human partners:{O00559;Q9UKL3}

7294 Pathogen[ P14075] interacts with 1 human partners:{Q9UKL3}

7295 Pathogen[ P0C206] interacts with 1 human partners:{Q9UKL3}

7296 Pathogen[ P03363] interacts with 1 human partners:{Q9UKL3}

7297 [Cluster 664]GO:0005506+F molecular\_function [name] iron ion binding [def]  
"Interacting selectively and non-covalently with iron (Fe) ions." [GOC

7298 Pathogen[ Q2Q067] interacts with 19 human  
partners:{P02792;Q9UPP1;Q9HBH1;P09917;O75151;O14829;P27797;P68871;Q9UMS0;P29474;Q9NWT  
6;P99999;P69905;Q96KS0;Q9H6W3;Q9H6Z9;Q9GZT9;Q9UHB4;Q9H1K1}

7299 Pathogen[ P0C214] interacts with 31 human  
partners:{P29474;Q9UKA1;P02794;Q9HBH1;P09917;Q9NVH6;P02042;O14829;Q96KS0;P69905;O7515  
1;Q99798;Q9H1K1;Q9NPG2;Q9UMS0;Q9H6Z9;P68871;P69892;P99999;Q9H6W3;P02100;Q9GZT9;P27797  
;Q9UHB4;O14521;P02792;P69891;P22830;Q9UPP1;P18054;Q9NWT6}

7300 Pathogen[ P03346] interacts with 25 human  
partners:{P02792;Q9HBH1;O14829;Q9UBK8;P29474;Q9UHB4;P02100;Q9H1K1;Q9UMS0;P18054;P0279  
4;Q9NPG2;P69905;O75151;Q9UKA1;P99999;P09917;Q9GZT9;Q9UPP1;P27797;P68871;Q96KS0;Q9NWT6  
;Q9H6W3;Q9H6Z9}

7301 Pathogen[ Q85601] interacts with 26 human  
partners:{Q9HBH1;P69905;Q9UHB4;Q9H6Z9;P99999;O14829;P09917;O75151;P02042;Q9NWT6;Q9UMS  
0;P27797;P02100;Q9H6W3;Q9UKA1;P69892;Q9GZT9;Q96KS0;Q9UPP1;P29474;P68871;Q9NPG2;P02792  
;P69891;Q9H1K1;P02794}

7302 Pathogen[ P14079] interacts with 35 human  
partners:{Q9UHB4;Q8WWM9;P48775;P02042;Q9GZT9;Q9NPG2;P69891;O75151;P02100;Q8IVL6;P1010  
9;Q9H1K1;P00395;P09105;Q9NVH6;P69905;P02008;Q9H6W3;P68871;Q9UMS0;O14829;Q9UPP1;Q9NWT6  
;Q9HBH1;Q9H6Z9;P09917;P22830;P02794;Q6B0K9;Q16878;O14521;P02144;P99999;P69892;Q96KS0}

7303 Pathogen[ P03383] interacts with 16 human  
partners:{P02794;Q9HBH1;Q9NWT6;P29474;Q9H1K1;Q9UHB4;P69905;P68871;O75151;Q96KS0;Q9H6W  
3;Q9H6Z9;P99999;Q9UMS0;Q9UPP1;P27797}

7304 Pathogen[ P03410] interacts with 35 human  
partners:{Q9UPP1;Q6B0K9;Q9H6W3;P02794;P02008;P02144;P02100;Q9NWT6;Q9NVH6;Q96KS0;Q9H6Z  
9;Q9HBH1;P09105;Q9H1K1;Q9GZT9;Q8WWM9;O75151;P29474;P48775;P68871;Q9UMS0;P22830;P99999  
;Q9UHB4;P02042;Q9NPG2;O14521;P09917;P10109;P69892;P02792;P69905;O14829;P69891;P27797}

7305 Pathogen[ P14075] interacts with 18 human  
partners:{Q9NVH6;P29474;P68871;Q9HBH1;Q96KS0;Q9GZT9;Q9UMS0;Q9UPP1;Q9UHB4;P99999;P2779  
7;P02794;Q9H6W3;Q9NWT6;O75151;Q9H1K1;Q9H6Z9;P69905}

7306 Pathogen[ P0C206] interacts with 34 human  
partners:{Q9H1K1;P99999;P68871;Q6B0K9;P09917;P27797;Q96KS0;P02100;P69892;Q9GZT9;P0279  
4;O14521;P02008;Q9UKA1;Q9UPP1;Q9NVH6;P69891;O75151;Q9NPG2;P69905;Q9NWT6;P09105;Q9H6W3  
;P22830;P02792;P29474;Q9H6Z9;O14829;Q99798;Q9UHB4;Q9HBH1;P02042;Q9UMS0;Q8WWM9}

7307 Pathogen[ P03363] interacts with 12 human  
partners:{P29474;P69905;O14829;Q9UHB4;Q9UMS0;P68871;P99999;Q9H6Z9;P27797;Q9UKA1;Q9H1K  
1;P02794}

7308 [Cluster 665]GO:0005536+F molecular\_function [name] glucose binding [def]  
"Interacting selectively and non-covalently with the D- or L-enantiomer of glucose."  
[CHEBI

7309 Pathogen[ Q2Q067] interacts with 3 human partners:{Q16851;P46976;P13807}

7310 Pathogen[ P0C214] interacts with 4 human partners:{P11413;P46976;Q16851;P13807}

7311 Pathogen[ P03346] interacts with 3 human partners:{P13807;P46976;Q16851}

7312 Pathogen[ Q85601] interacts with 3 human partners:{P13807;Q16851;P46976}

7313 Pathogen[ P14079] interacts with 3 human partners:{Q16851;P13807;P46976}

7314 Pathogen[ P03383] interacts with 3 human partners:{P13807;Q16851;P46976}

7315 Pathogen[ P03410] interacts with 3 human partners:{P46976;Q16851;P13807}

7316 Pathogen[ P14075] interacts with 3 human partners:{P46976;P13807;Q16851}

7317 Pathogen[ P0C206] interacts with 3 human partners:{Q16851;P46976;P13807}

7318 Pathogen[ P03363] interacts with 3 human partners:{P13807;Q16851;P46976}

7319 [Cluster 666]GO:0043130+F molecular\_function [name] ubiquitin binding [def]  
"Interacting selectively and non-covalently with ubiquitin, a protein that when  
covalently bound to other cellular proteins marks them for proteolytic degradation." [GOC

7320 Pathogen[ Q2Q067] interacts with 19 human  
partners:{Q8IXJ6;Q9Y2M0;Q99816;O95999;P04792;Q96CS3;P11388;Q04323;Q9UNN5;P84022;O9488  
8;P61088;Q99543;P37198;Q9H040;Q86VN1;O75674;Q13501;Q6NZ36}

7321 Pathogen[ P0C214] interacts with 21 human  
partners:{Q9H040;O94888;P04792;P84022;Q6NZ36;Q9Y2M0;Q13501;P37198;O95071;Q9UNN5;O9599  
9;Q04323;Q96CS3;P11388;Q99816;Q8IXJ6;Q99543;O75674;Q8IYW5;Q86VN1;P61088}

7322 Pathogen[ P03346] interacts with 25 human  
partners:{Q99543;O94888;P11388;Q96CS3;Q9BYM8;Q99816;Q8IXJ6;Q86VN1;P37198;O95999;P6108  
8;Q6NZ36;Q96EP0;P84022;Q9UNN5;Q9H040;Q8IYW5;Q04323;Q14596;Q96FW1;O75674;O95071;Q9Y2M0  
;P04792;Q13501}

7323 Pathogen[ Q85601] interacts with 22 human

7324 partners:{Q99816;Q99543;Q9Y2M0;Q9Y5T5;Q9H040;Q6NZ36;Q96CS3;Q14596;Q86VN1;O94888;Q9UNN5;Q04323;Q8IXJ6;P11388;Q8IYW5;P84022;P04792;O95999;P61088;O95071;Q13501;O75674}  
Pathogen[ P14079] interacts with 22 human

7325 partners:{P11388;Q86VN1;O94888;O95999;Q96CS3;Q9H040;Q96EP0;O75674;Q6NZ36;Q14596;Q99543;Q9UNN5;Q9BYM8;P37198;Q9Y2M0;Q13501;Q8IXJ6;Q5W0Q7;P04792;Q99816;Q96FW1;Q04323}  
Pathogen[ P03383] interacts with 15 human

7326 partners:{Q99816;Q04323;P04792;O94888;P61088;P84022;Q9UNN5;Q9H040;Q96CS3;Q9Y2M0;O95999;Q99543;Q13501;P37198;Q86VN1}  
Pathogen[ P03410] interacts with 20 human

7327 partners:{P84022;Q96FW1;Q8IXJ6;Q9H040;Q9UNN5;O75674;Q13501;P04792;Q86VN1;Q04323;P61088;Q14596;Q99816;O95999;P11388;Q96CS3;Q6NZ36;Q9Y2M0;Q99543;O94888}  
Pathogen[ P14075] interacts with 16 human

7328 partners:{Q96CS3;P61088;O94888;Q86VN1;P04792;Q99543;Q9H040;Q96FW1;Q04323;Q9Y2M0;Q9UNN5;P37198;O95999;P84022;Q99816;Q13501}  
Pathogen[ P0C206] interacts with 25 human

7329 partners:{Q9UNN5;P84022;Q13501;Q9Y2M0;Q8IYW5;Q9Y5T5;Q04323;Q6NZ36;O95999;Q86VN1;P04792;Q99816;O94888;Q14596;P61088;Q96EP0;Q96FW1;Q99543;Q8IXJ6;P11388;Q9BYM8;Q9H040;Q96CS3;O75674;O95071}  
Pathogen[ P03363] interacts with 19 human

7330 partners:{Q9UNN5;Q04323;Q99543;Q96EP0;Q9Y2M0;O94888;Q8IYW5;Q96CS3;P61088;Q6NZ36;Q86VN1;Q9H040;O75674;P84022;O95071;Q99816;P37198;P04792;Q96FW1}  
[Cluster 667]GO:0001158+F molecular\_function [name] enhancer sequence-specific DNA binding [def] "Interacting selectively and non-covalently with a specific sequence of DNA that is part of an enhancer, a transcription regulatory region that is somewhat distal from the core promoter and which enhances transcription from that promoter." [GOC

7331 Pathogen[ Q2Q067] interacts with 4 human partners:{P15976;Q9BWX5;P23769;Q86U70}  
7332 Pathogen[ P0C214] interacts with 2 human partners:{P23769;Q86U70}  
7333 Pathogen[ P03346] interacts with 6 human partners:{Q86U70;Q9BWX5;P23769;P15976;Q92481;P61968}  
7334 Pathogen[ Q85601] interacts with 5 human partners:{P61968;Q9BWX5;P15976;Q86U70;P23769}  
7335 Pathogen[ P14079] interacts with 4 human partners:{Q9BWX5;Q86U70;P15976;P23769}  
7336 Pathogen[ P03383] interacts with 2 human partners:{Q86U70;P23769}  
7337 Pathogen[ P03410] interacts with 4 human partners:{Q9BWX5;Q86U70;P23769;P15976}  
7338 Pathogen[ P14075] interacts with 2 human partners:{Q86U70;P23769}  
7339 Pathogen[ P0C206] interacts with 5 human partners:{P15976;Q9BWX5;P23769;Q86U70;P61968}

7340 Pathogen[ P03363] interacts with 2 human partners:{Q86U70;Q9BWX5}

7341 [Cluster 668]GO:0003918+F molecular\_function [name] DNA topoisomerase (ATP-hydrolyzing) activity [def] "Catalysis of a DNA topological transformation by transiently cleaving a pair of complementary DNA strands to form a gate through which a second double-stranded DNA segment is passed, after which the severed strands in the first DNA segment are rejoined\_ product release is coupled to ATP binding and hydrolysis\_ changes the linking number in multiples of 2." [PMID

7342 Pathogen[ Q2Q067] interacts with 2 human partners:{P11387;P11388}  
7343 Pathogen[ P0C214] interacts with 2 human partners:{P11388;P11387}  
7344 Pathogen[ P03346] interacts with 2 human partners:{P11388;P11387}  
7345 Pathogen[ Q85601] interacts with 2 human partners:{P11387;P11388}  
7346 Pathogen[ P14079] interacts with 2 human partners:{P11388;Q969P6}  
7347 Pathogen[ P03383] interacts with 1 human partners:{P11387}  
7348 Pathogen[ P03410] interacts with 2 human partners:{P11387;P11388}  
7349 Pathogen[ P14075] interacts with 1 human partners:{P11387}  
7350 Pathogen[ P0C206] interacts with 2 human partners:{P11388;P11387}  
7351 Pathogen[ P03363] interacts with 1 human partners:{P11387}

7352 [Cluster 669]GO:0035605+F molecular\_function [name] peptidyl-cysteine S-nitrosylase activity [def] "Catalysis of the transfer of a nitric oxide (NO) group to a sulphur atom within a cysteine residue of a protein." [EC

7353 Pathogen[ Q2Q067] interacts with 1 human partners:{P04406}  
7354 Pathogen[ P0C214] interacts with 1 human partners:{P04406}  
7355 Pathogen[ P03346] interacts with 1 human partners:{P04406}  
7356 Pathogen[ Q85601] interacts with 1 human partners:{P04406}  
7357 Pathogen[ P14079] interacts with 1 human partners:{P04406}  
7358 Pathogen[ P03383] interacts with 1 human partners:{P04406}  
7359 Pathogen[ P03410] interacts with 1 human partners:{P04406}  
7360 Pathogen[ P14075] interacts with 1 human partners:{P04406}  
7361 Pathogen[ P0C206] interacts with 1 human partners:{P04406}  
7362 Pathogen[ P03363] interacts with 1 human partners:{P04406}

7363 [Cluster 670]GO:0015026+F molecular\_function [name] coreceptor activity [def] "Combining with an extracellular or intracellular messenger, and in cooperation with a nearby primary receptor, initiating a change in cell activity." [GOC

7364 Pathogen[ Q2Q067] interacts with 2 human partners:{O14786;Q6ZVN8}  
7365 Pathogen[ P0C214] interacts with 2 human partners:{O14786;Q6ZVN8}  
7366 Pathogen[ P03346] interacts with 2 human partners:{Q6ZVN8;O14786}  
7367 Pathogen[ Q85601] interacts with 1 human partners:{O14786}  
7368 Pathogen[ P14079] interacts with 3 human partners:{Q6ZVN8;O60895;Q9Y6Y9}  
7369 Pathogen[ P03383] interacts with 1 human partners:{Q6ZVN8}

7370 Pathogen[ P03410] interacts with 5 human partners:{O14786;O60896;O60895;Q6ZVN8;Q9Y6Y9}

7371 Pathogen[ P14075] interacts with 1 human partners:{Q6ZVN8}

7372 Pathogen[ P0C206] interacts with 2 human partners:{O14786;Q6ZVN8}

7373 Pathogen[ P03363] interacts with 2 human partners:{O14786;Q6ZVN8}

7374 [Cluster 671]GO:0017049+F molecular\_function [name] GTP-Rho binding [def] "Interacting selectively and non-covalently with the GTP-bound form of the Rho protein." [GOC]

7375 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13829}

7376 Pathogen[ P0C214] interacts with 3 human partners:{Q13829;O14613;Q8WZ19}

7377 Pathogen[ P03346] interacts with 3 human partners:{Q8WZ19;O14613;Q13829}

7378 Pathogen[ Q85601] interacts with 3 human partners:{Q8WZ19;O14613;Q13829}

7379 Pathogen[ P14079] interacts with 5 human partners:{O14613;Q6NZY7;Q9H2D6;Q13829;Q9H3Q1}

7380 Pathogen[ P03383] interacts with 1 human partners:{Q13829}

7381 Pathogen[ P03410] interacts with 6 human partners:{Q13829;Q8WZ19;Q9H3Q1;Q6NZY7;O14613;Q9H2D6}

7382 Pathogen[ P14075] interacts with 2 human partners:{O14613;Q13829}

7383 Pathogen[ P0C206] interacts with 3 human partners:{Q13829;O14613;Q8WZ19}

7384 Pathogen[ P03363] interacts with 4 human partners:{Q9H2D6;O14613;Q13829;Q8WZ19}

7385 [Cluster 672]GO:0004713+F molecular\_function [name] protein tyrosine kinase activity [def] "Catalysis of the reaction

7386 Pathogen[ Q2Q067] interacts with 1 human partners:{O95684}

7387 Pathogen[ P0C214] interacts with 1 human partners:{O95684}

7388 Pathogen[ P03346] interacts with 5 human partners:{O95684;Q96PY6;P45985;Q96KG9;O00444}

7389 Pathogen[ Q85601] interacts with 3 human partners:{O95684;Q96PY6;Q96KG9}

7390 Pathogen[ P14079] interacts with 4 human partners:{O95684;P52564;P45985;Q96KG9}

7391 Pathogen[ P03383] interacts with 2 human partners:{O95684;Q96PY6}

7392 Pathogen[ P03410] interacts with 3 human partners:{O95684;Q96KG9;P45985}

7393 Pathogen[ P14075] interacts with 2 human partners:{O95684;Q96PY6}

7394 Pathogen[ P0C206] interacts with 7 human partners:{O95684;Q96PY6;O00444;Q96KG9;P30291;P45985;Q9UIG0}

7395 Pathogen[ P03363] interacts with 2 human partners:{O95684;Q96KG9}

7396 [Cluster 673]GO:0008176+F molecular\_function [name] tRNA (guanine-N7-)-methyltransferase activity [def] "Catalysis of the reaction

7397 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9UBP6;P57081}

7398 Pathogen[ P0C214] interacts with 2 human partners:{P57081;Q9UBP6}

7399 Pathogen[ P03346] interacts with 2 human partners:{Q9UBP6;P57081}

7400 Pathogen[ Q85601] interacts with 2 human partners:{Q9UBP6;P57081}

7401 Pathogen[ P14079] interacts with 1 human partners:{P57081}

7402 Pathogen[ P03383] interacts with 2 human partners:{Q9UBP6;P57081}

7403 Pathogen[ P03410] interacts with 2 human partners:{Q9UBP6;P57081}

7404 Pathogen[ P14075] interacts with 2 human partners:{P57081;Q9UBP6}

7405 Pathogen[ P0C206] interacts with 2 human partners:{Q9UBP6;P57081}

7406 Pathogen[ P03363] interacts with 2 human partners:{Q9UBP6;P57081}

7407 [Cluster 674]GO:0016887+F molecular\_function [name] ATPase activity [def] "Catalysis of the reaction

7408 Pathogen[ Q2Q067] interacts with 19 human partners:{Q6VMQ6;O75351;Q6NVH7;Q14204;Q9UHC1;O76031;P07900;Q96S55;P54278;Q96Q89;P12883;Q96T23;Q9UKV3;Q15257;Q9ULG1;Q86WJ1;P35579;Q8NE71;P24539}

7409 Pathogen[ P0C214] interacts with 30 human partners:{Q14527;A8MQ11;Q96S55;Q6VMQ6;O75351;Q9UI12;Q14204;Q9ULG1;Q15257;P36542;O76031;Q8NE71;O43681;Q96Q89;Q9UHC1;P24539;P10809;O60264;Q6NVH7;P12883;P10909;Q96T23;P13533;Q9UKV3;P54278;P35998;P40692;Q15008;Q86WJ1;P55072}

7410 Pathogen[ P03346] interacts with 23 human partners:{P07900;P35579;Q14527;Q9ULG1;Q15257;Q14204;P55072;Q9UKV3;O76031;Q9UHC1;Q96S55;P24539;Q6VMQ6;O60264;Q96Q89;Q96T23;P54278;Q6NVH7;Q8NE71;O75351;Q86WJ1;P54277;Q9NRD5}

7411 Pathogen[ Q85601] interacts with 26 human partners:{P24539;P13533;P35579;Q96T23;A8MQ11;Q6NVH7;Q14204;O43681;Q96Q89;O75351;Q9UKV3;Q9ULG1;P12883;P07900;Q8NE71;Q96S55;P54278;Q9UHC1;O76031;Q86WJ1;P40692;O60264;Q6VMQ6;P19447;Q14527;Q15257}

7412 Pathogen[ P14079] interacts with 41 human partners:{P36542;P35579;P62333;Q96T23;Q9ULG1;P56134;P25705;P40692;Q14204;P54278;P56385;Q9UHC1;P10909;P35998;A8MQ11;Q6NVH7;P68032;Q6VMQ6;P03928;Q9UKV3;O43681;Q96Q89;Q96S55;Q8NE71;Q86WJ1;P07900;O60264;O95744;P12883;P54277;O75964;P62191;Q9UI12;P56381;Q15008;O75351;P43686;O76031;P52701;P24539;P19447}

7413 Pathogen[ P03383] interacts with 15 human partners:{P54278;Q15257;Q6NVH7;Q8NE71;Q9UHC1;Q6VMQ6;P07900;Q96T23;Q96S55;Q9UKV3;Q96Q89;P12883;O76031;P35579;P24539}

7414 Pathogen[ P03410] interacts with 42 human partners:{Q14204;P40692;Q96Q89;Q96T23;Q8NE71;P36542;Q15008;P25705;O75351;P35998;P54277;Q15257;Q9ULG1;P35579;P56385;P07900;Q96S55;Q6NVH7;Q6VMQ6;P56381;O60333;O76031;Q9NRD5;Q9UKV3;P52701;P03928;P19447;P12883;Q9UI12;P24539;O95744;O75964;Q86WJ1;A8MQ11;P13533;P54278;O60264;O43681;P18859;P56134;Q9UHC1;P10909}

7415 Pathogen[ P14075] interacts with 15 human partners:{Q15257;Q9UKV3;O76031;P07900;Q9UHC1;Q6VMQ6;Q8NE71;P35579;P24539;Q96T23;P54278;P56385;Q6NVH7;Q96S55;Q96Q89}

7416 Pathogen[ P0C206] interacts with 35 human partners:{P54278;Q6VMQ6;Q96Q89;P13533;P52701;O43681;P36542;P40692;Q96T23;Q9UHC1;A8MQ11;P19447;P14204;P12883;Q9ULG1;P07900;Q9UI12;P10909;Q96S55;P24539;P35579;P55072;Q14527;Q8NE71;Q86WJ1;P56381;Q6NVH7;O76031;O75351;Q9NRD5;P56385;Q15257;Q9UKV3;O60264}

7417 Pathogen[ P03363] interacts with 21 human partners:{Q6VMQ6;P07900;Q9ULG1;P35579;Q9UKV3;Q9UHC1;Q14204;O60264;O75351;Q96T23;P54278;Q14527;P54277;O76031;Q96S55;Q15257;Q8NE71;Q6NVH7;Q96Q89;O60333;Q86WJ1}

7418 [Cluster 675]GO:0042975+F molecular\_function [name] peroxisome proliferator activated receptor binding [def] "Interacting selectively and non-covalently with any of the peroxisome proliferator activated receptors, alpha, beta or gamma." [GOC

7419 Pathogen[ Q2Q067] interacts with 7 human partners:{P55345;Q76L83;Q15466;P17096;Q92793;Q8IXJ9;Q14693}

7420 Pathogen[ P0C214] interacts with 7 human partners:{Q92793;P17096;Q76L83;P55345;Q8IXJ9;Q15466;Q14693}

7421 Pathogen[ P03346] interacts with 7 human partners:{Q15466;P17096;P55345;Q76L83;Q8IXJ9;Q92793;Q14693}

7422 Pathogen[ Q85601] interacts with 7 human partners:{P17096;Q15466;Q8IXJ9;Q76L83;Q92793;P55345;Q14693}

7423 Pathogen[ P14079] interacts with 7 human partners:{Q76L83;Q14693;Q8IXJ9;Q92793;P17096;P55345;Q15466}

7424 Pathogen[ P03383] interacts with 6 human partners:{Q8IXJ9;P17096;Q76L83;Q15466;Q92793;Q14693}

7425 Pathogen[ P03410] interacts with 7 human partners:{P17096;Q14693;Q92793;Q8IXJ9;Q76L83;Q15466;P55345}

7426 Pathogen[ P14075] interacts with 6 human partners:{Q8IXJ9;Q76L83;P17096;Q92793;Q15466;Q14693}

7427 Pathogen[ P0C206] interacts with 7 human partners:{Q76L83;Q15466;Q92793;Q8IXJ9;P17096;P55345;Q14693}

7428 Pathogen[ P03363] interacts with 5 human partners:{Q8IXJ9;Q15466;P17096;Q76L83;Q92793}

7429 [Cluster 676]GO:0008097+F molecular\_function [name] 5S rRNA binding [def] "Interacting selectively and non-covalently with 5S ribosomal RNA, the smallest RNA constituent of a ribosome." [GOC

7430 Pathogen[ Q2Q067] interacts with 2 human partners:{P46777;Q9H0U6}

7431 Pathogen[ P0C214] interacts with 3 human partners:{Q9H0U6;P46777;Q16762}

7432 Pathogen[ P03346] interacts with 2 human partners:{Q9H0U6;P46777}

7433 Pathogen[ Q85601] interacts with 2 human partners:{Q9H0U6;P46777}

7434 Pathogen[ P14079] interacts with 3 human partners:{Q9H0U6;Q16762;P46777}

7435 Pathogen[ P03383] interacts with 2 human partners:{P46777;Q9H0U6}

7436 Pathogen[ P03410] interacts with 3 human partners:{P46777;Q16762;Q9H0U6}

7437 Pathogen[ P14075] interacts with 2 human partners:{P46777;Q9H0U6}

7438 Pathogen[ P0C206] interacts with 3 human partners:{Q9H0U6;P46777;Q16762}

7439 Pathogen[ P03363] interacts with 2 human partners:{Q9H0U6;P46777}

7440 [Cluster 677]GO:0008469+F molecular\_function [name] histone-arginine N-methyltransferase activity [def] "Catalysis of the reaction

7441 Pathogen[ Q2Q067] interacts with 7 human partners:{O14744;Q9NVM4;Q96LA8;P55345;Q9NR22;Q99873;Q86X55}

7442 Pathogen[ P0C214] interacts with 6 human partners:{Q9NVM4;Q99873;P55345;Q86X55;Q9NR22;Q96LA8}

7443 Pathogen[ P03346] interacts with 7 human partners:{Q99873;O14744;P55345;Q9NR22;Q9NVM4;Q86X55;Q96LA8}

7444 Pathogen[ Q85601] interacts with 7 human partners:{Q9NR22;Q86X55;Q9NVM4;O14744;Q99873;Q96LA8;P55345}

7445 Pathogen[ P14079] interacts with 6 human partners:{Q9NR22;Q96LA8;Q99873;Q9NVM4;P55345;O14744}

7446 Pathogen[ P03383] interacts with 5 human partners:{Q86X55;O14744;Q99873;Q9NR22;Q96LA8}

7447 Pathogen[ P03410] interacts with 7 human partners:{Q96LA8;Q9NVM4;Q86X55;Q9NR22;O14744;Q99873;P55345}

7448 Pathogen[ P14075] interacts with 5 human partners:{Q9NR22;O14744;Q96LA8;Q99873;Q86X55}

7449 Pathogen[ P0C206] interacts with 7 human partners:{Q99873;O14744;Q86X55;Q96LA8;Q9NVM4;Q9NR22;P55345}

7450 Pathogen[ P03363] interacts with 6 human partners:{O14744;Q96LA8;Q9NVM4;Q9NR22;Q86X55;Q99873}

7451 [Cluster 678]GO:0003697+F molecular\_function [name] single-stranded DNA binding [def] "Interacting selectively and non-covalently with single-stranded DNA." [GOC

7452 Pathogen[ Q2Q067] interacts with 37 human partners:{P81877;Q6NVH7;Q9GZP8;Q92889;P27694;P67809;Q96AE4;Q9UHC1;Q96B01;P35244;Q9BWW4;Q96AH0;P54727;Q96T58;P42704;Q9H668;O95551;P38935;Q13156;Q9BQ15;Q06609;Q00577;P54725;P61978;P53999;P15927;Q9NUW8;Q92541;P54278;Q96QR8;Q2NKJ3;P16989;Q9UHN1;Q01831;Q9Y2W2;Q04837;P28715}

7453 Pathogen[ P0C214] interacts with 42 human



partners:{Q95551;Q9BWW4;Q9Y2W2;A8MQ11;Q96T58;Q06609;P16989;Q13156;Q92889;Q96QR8;P67809;P53999;P81877;P54725;P42704;Q96AH0;P20585;P38935;Q92541;P28715;Q14566;Q00577;Q9UHC1;P15927;Q49AN0;P10809;Q6NVH7;P35244;Q96B01;P54727;Q01831;Q96AE4;Q9H668;P27694;Q9NUW8;P54278;P40692;Q04837;Q15365;Q9BQ15;Q9UHN1;Q2NKJ3}

7454 Pathogen[ P03346] interacts with 49 human  
partners:{P61978;Q96QR8;P38935;P28715;Q06609;Q95551;P09651;P27694;Q9GZP8;Q00577;P07992;P35244;Q49AN0;Q13156;Q96AH0;Q9NUW8;Q9UHN1;Q96AE4;P16989;Q9BWW4;Q9UHC1;Q14566;Q9BWW4;P53999;P67809;Q9BQ15;Q01831;P42704;Q9H668;P51587;P20585;Q96B01;P15927;P54727;Q92541;Q14979;Q96T58;P33991;Q92889;P54725;P54278;Q6NVH7;P81877;P29558;Q04837;Q9Y2W2;P54277;Q15365;Q2NKJ3}

7455 Pathogen[ Q85601] interacts with 43 human  
partners:{P61978;Q96QR8;Q9Y2W2;Q01831;Q96AH0;P38935;A8MQ11;P35244;Q49AN0;Q6NVH7;Q2NKJ3;Q9BQ15;P53999;P27694;Q92889;P28715;Q14566;Q00577;Q92541;P54727;P15927;Q9H668;P54725;P20585;P42704;Q96B01;Q9BWW4;P67809;Q9NUW8;Q96T58;P54278;Q96AE4;Q9UHC1;Q13156;Q15365;P40692;Q04837;Q06609;Q9UHN1;P16989;P51587;Q95551;P81877}

7456 Pathogen[ P14079] interacts with 50 human  
partners:{P04083;Q04837;Q9H668;P20585;Q9BQ15;Q8TAT5;Q96B01;P28715;Q14566;Q9Y2W2;Q96QR8;P67809;P53999;Q92541;P40692;Q49AN0;P54278;P51587;Q9UHC1;P42704;Q9BWW4;Q13156;Q96AH0;A8MQ11;Q6NVH7;Q9NUW8;Q96AE4;P16989;Q9BWW4;Q92889;Q95744;Q95551;Q9GZP8;Q9NSU2;P54277;Q15365;Q00577;P81877;P61978;P15927;P27694;P38935;Q01831;Q9UHN1;P35244;Q06609;P54727;Q2NKJ3;P07992;Q96T58}

7457 Pathogen[ P03383] interacts with 35 human  
partners:{Q9UHN1;P16989;Q06609;P54278;Q6NVH7;P27694;Q9BWW4;P53999;Q9UHC1;Q96B01;P61978;Q9Y2W2;Q01831;Q9GZP8;P15927;P54725;P35244;P54727;Q15365;Q96T58;Q92541;Q9NUW8;Q00577;Q96AE4;Q9BQ15;P42704;P38935;Q95551;Q13156;Q04837;Q96AH0;Q96QR8;P67809;Q2NKJ3;P81877}

7458 Pathogen[ P03410] interacts with 50 human  
partners:{P40692;Q9GZP8;P35244;P53999;P20585;P61978;Q9BQ15;Q9BWW4;P16989;P07992;Q04837;P54277;Q15365;Q9BWW4;Q9H668;Q92889;Q6NVH7;Q9NSU2;P54725;P28715;Q8TAT5;Q01831;Q96T58;Q92541;Q00577;P67809;Q9Y2W2;Q95551;P38935;Q96AH0;P51587;P42704;Q13156;Q9NUW8;Q95744;Q49AN0;P27694;A8MQ11;P54278;P15927;Q96QR8;Q2NKJ3;Q96B01;Q14566;Q9UHN1;P81877;Q96AE4;Q9UHC1;Q06609;P54727}

7459 Pathogen[ P14075] interacts with 36 human  
partners:{P42704;Q96QR8;P16989;Q9BWW4;Q9GZP8;Q01831;Q2NKJ3;Q96T58;Q9BQ15;P38935;P15927;Q13156;Q15365;P35244;Q92541;Q9Y2W2;Q9UHC1;P54727;P53999;P67809;Q96AH0;P61978;P27694;Q9UHN1;Q96B01;Q00577;P54725;P54278;P81877;Q6NVH7;Q04837;Q96AE4;Q9NUW8;Q06609;Q95551;Q9H668}

7460 Pathogen[ P0C206] interacts with 49 human  
partners:{P67809;P54278;Q2NKJ3;P28715;P54725;Q15365;Q9UHN1;P38935;Q9BQ15;Q9NSU2;Q13156;P51587;Q96QR8;P40692;P61978;Q9NUW8;Q92541;Q9UHC1;Q9H668;A8MQ11;P81877;P07992;P54277;P53999;P16989;Q9BWW4;Q92889;Q8TAT5;Q01831;Q95551;P54727;Q96T58;Q9BWW4;Q04837;Q06609;P42704;P27694;P20585;P15927;Q96AE4;Q6NVH7;P35244;Q96B01;Q9Y2W2;Q49AN0;Q14566;Q9GZP8;Q96AH0;Q00577}

7461 Pathogen[ P03363] interacts with 44 human  
partners:{Q9Y2W2;Q96T58;P27694;P54727;Q9GZP8;Q01831;Q9UHC1;Q96AH0;P09651;Q9BWW4;P29558;P42704;Q92889;Q96QR8;P35244;P15927;P20585;Q49AN0;Q96AE4;P81877;Q9BQ15;Q13156;P54278;Q14979;Q9H668;P54277;Q9NUW8;P53999;Q15365;P54725;Q2NKJ3;Q04837;Q92541;Q95551;P61978;Q06609;Q6NVH7;Q9UHN1;Q9BWW4;P16989;Q00577;P38935;Q96B01;P67809}

7462 [Cluster 679]GO:0008026+F molecular\_function [name] ATP-dependent helicase activity  
[def] "Catalysis of the reaction

7463 Pathogen[ Q2Q067] interacts with 19 human  
partners:{Q12798;P38919;O00148;Q13838;Q14240;P26196;Q9UHI6;Q8N3C0;Q08211;Q12873;P13984;Q92499;Q14839;Q9UNY4;P41208;Q86WJ1;Q92841;Q8IYD8;P60842}

7464 Pathogen[ P0C214] interacts with 25 human  
partners:{P26196;O00148;P60842;Q12873;Q92841;Q9H0S4;Q7L2E3;Q8N3C0;Q12798;P38919;Q9UNY4;Q9NVP1;Q14240;Q9UHI6;P13984;P41208;Q92499;Q9H2U1;Q9NUU7;Q9UMR2;Q08211;Q13838;Q8IYD8;Q86WJ1;Q14839}

7465 Pathogen[ P03346] interacts with 32 human  
partners:{P46063;Q9UMR2;Q92841;Q8TD26;P38919;Q7L2E3;Q9NVP1;Q08211;P60842;Q9BUQ8;Q8N3C0;Q9H2U1;P41208;Q92499;P13984;Q75643;Q9UHI6;Q14240;Q13838;Q9UNY4;P42285;Q14562;Q9NUU7;Q9H0S4;P26196;Q8IYD8;Q12798;Q12873;O00148;Q86WJ1;Q86XP3;Q14839}

7466 Pathogen[ Q85601] interacts with 25 human  
partners:{Q9H0S4;Q8IYD8;Q14240;Q12798;O00148;Q9UMR2;Q7L2E3;Q92499;Q08211;P38919;P13984;Q13838;Q9NVP1;Q12873;Q9UHI6;Q9NUU7;P60842;P26196;Q86WJ1;Q8TD26;Q9UNY4;Q14839;Q8N3C0;P41208;Q9H2U1}

7467 Pathogen[ P14079] interacts with 21 human  
partners:{Q9H0S4;P60842;Q8IYD8;Q9UNY4;Q7L2E3;Q13838;Q9UHI6;Q14240;Q08211;Q12873;Q8TD26;P26196;Q12798;Q86WJ1;O00148;P41208;Q14839;P13984;Q92499;Q96FC9;Q9NVP1}

7468 Pathogen[ P03383] interacts with 14 human  
partners:{Q14839;Q9H0S4;Q13838;P41208;Q92841;Q9UHI6;P38919;Q12798;P26196;Q12873;P13984;Q92499;Q9UNY4;O00148}

7469 Pathogen[ P03410] interacts with 25 human  
partners:{Q13838;Q12873;Q9UNY4;Q8N3C0;Q8IYD8;Q9NVP1;O00148;Q12798;Q9H0S4;Q9UMR2;Q9NUU7;Q92499;Q7L2E3;P60842;P38919;Q86WJ1;P13984;Q96FC9;Q8TD26;P41208;Q14839;Q9UHI6;Q08211;Q14240;Q9H2U1}

7470 Pathogen[ P14075] interacts with 14 human  
partners:{P13984;Q9H0S4;Q9UNY4;P26196;Q14839;Q12798;Q92499;Q9UHI6;P41208;Q92841;P38919}

9;Q13838;Q12873;O00148}  
7471 Pathogen[ P0C206] interacts with 28 human  
partners:{Q9H0S4;O00148;Q8TD26;Q9NUU7;Q9UNY4;Q08211;Q8IYD8;P26196;O94762;P13984;Q1483  
9;Q13838;Q9NVP1;Q92841;Q14240;Q86WJ1;P41208;Q9H2U1;Q9UHI6;Q12798;Q9UMR2;P38919;P60842  
;Q92499;Q7L2E3;Q9BX63;Q8N3C0;Q12873}  
7472 Pathogen[ P03363] interacts with 38 human  
partners:{O94762;Q9BX63;P38919;O75643;Q8IY21;P13984;Q9UHI6;Q9NUU7;Q14839;P41208;Q9262  
0;Q9H0S4;Q9UNY4;Q14562;Q9NUL7;Q12798;Q92841;Q14240;P46063;O00148;Q8IYD8;Q92499;P26196  
;Q13838;Q9UMR2;P60842;Q86XP3;Q8TD26;Q12873;Q7L2E3;Q9NVP1;Q9H2U1;Q86WJ1;Q08211;Q9H6S0;  
Q5T890;Q8N3C0;P42285}  
7473 [Cluster 680]GO:0032266+F molecular\_function [name] phosphatidylinositol-3-phosphate  
binding [def] "Interacting selectively and non-covalently with  
phosphatidylinositol-3-phosphate, a derivative of phosphatidylinositol in which the  
inositol ring is phosphorylated at the 3' position." [GOC  
7474 Pathogen[ Q2Q067] interacts with 5 human  
partners:{Q86VW0;Q68DK2;Q9HCC9;Q9Y4P8;Q86VN1}  
7475 Pathogen[ P0C214] interacts with 5 human  
partners:{Q86VW0;Q9HCC9;Q9Y4P8;Q68DK2;Q86VN1}  
7476 Pathogen[ P03346] interacts with 8 human  
partners:{Q86VN1;Q8TEW0;O60493;Q86VW0;Q68DK2;Q96S99;Q9HCC9;Q9Y4P8}  
7477 Pathogen[ Q85601] interacts with 6 human  
partners:{Q96S99;Q86VN1;Q9HCC9;Q9Y4P8;Q68DK2;Q86VW0}  
7478 Pathogen[ P14079] interacts with 10 human  
partners:{Q86VN1;Q68DK2;Q9Y4P8;O60493;Q8N3I7;Q9HCC9;Q96S99;Q8TEW0;Q9NS86;Q86VW0}  
7479 Pathogen[ P03383] interacts with 4 human partners:{Q68DK2;Q9Y4P8;Q86VN1;Q9HCC9}  
7480 Pathogen[ P03410] interacts with 11 human  
partners:{Q9NS86;Q96S99;Q86VN1;Q9Y4P8;Q9HCC9;Q8N3I7;Q8TEW0;Q68DK2;O60493;Q5MNZ9;Q86VW  
0}  
7481 Pathogen[ P14075] interacts with 4 human partners:{Q86VN1;Q9Y4P8;Q68DK2;Q9HCC9}  
7482 Pathogen[ P0C206] interacts with 10 human  
partners:{Q68DK2;Q9HCC9;Q86VW0;Q86VN1;O60493;Q8N3I7;Q9Y4P8;Q8TEW0;Q96S99;Q9NS86}  
7483 Pathogen[ P03363] interacts with 6 human  
partners:{Q9HCC9;Q68DK2;O60493;Q86VN1;Q9Y4P8;Q86VW0}  
7484 [Cluster 681]GO:0017069+F molecular\_function [name] snRNA binding [def]  
"Interacting selectively and non-covalently with a small nuclear RNA (snRNA)." [GOC  
7485 Pathogen[ Q2Q067] interacts with 7 human  
partners:{Q96MH2;O60563;O94992;P50750;P08579;Q8TEQ6;P09012}  
7486 Pathogen[ P0C214] interacts with 7 human  
partners:{P50750;P08579;Q96MH2;Q8TEQ6;O60563;O94992;P09012}  
7487 Pathogen[ P03346] interacts with 7 human  
partners:{O60563;P08579;P50750;Q8TEQ6;P09012;O94992;Q96MH2}  
7488 Pathogen[ Q85601] interacts with 5 human  
partners:{Q96MH2;O60563;P50750;Q8TEQ6;O94992}  
7489 Pathogen[ P14079] interacts with 5 human  
partners:{Q8TEQ6;P09012;O94992;Q96MH2;P50750}  
7490 Pathogen[ P03383] interacts with 6 human  
partners:{Q96MH2;O60563;Q8TEQ6;P50750;O94992;P09012}  
7491 Pathogen[ P03410] interacts with 7 human  
partners:{Q8TEQ6;P09012;P50750;O60563;P08579;O94992;Q96MH2}  
7492 Pathogen[ P14075] interacts with 6 human  
partners:{Q8TEQ6;Q96MH2;O60563;P50750;O94992;P09012}  
7493 Pathogen[ P0C206] interacts with 6 human  
partners:{P50750;P09012;Q8TEQ6;Q96MH2;O94992;O60563}  
7494 Pathogen[ P03363] interacts with 7 human  
partners:{O60563;P09012;O94992;P08579;P50750;Q8TEQ6;Q96MH2}  
7495 [Cluster 682]GO:0016290+F molecular\_function [name] palmitoyl-CoA hydrolase activity  
[def] "Catalysis of the reaction  
7496 Pathogen[ Q2Q067] interacts with 4 human partners:{O14734;Q86TX2;Q5T1C6;Q8N1Q8}  
7497 Pathogen[ P0C214] interacts with 5 human  
partners:{Q86TX2;Q8N1Q8;O00154;O14734;Q5T1C6}  
7498 Pathogen[ P03346] interacts with 4 human partners:{Q6ZUV0;Q86TX2;O14734;Q8N1Q8}  
7499 Pathogen[ Q85601] interacts with 4 human partners:{Q86TX2;O14734;Q8N1Q8;Q5T1C6}  
7500 Pathogen[ P14079] interacts with 6 human  
partners:{P49753;Q5T1C6;O14734;Q6ZUV0;Q86TX2;Q8N1Q8}  
7501 Pathogen[ P03383] interacts with 3 human partners:{Q8N1Q8;O14734;Q5T1C6}  
7502 Pathogen[ P03410] interacts with 7 human  
partners:{Q6ZUV0;O14734;O00154;Q5T1C6;Q8N1Q8;Q86TX2;P49753}  
7503 Pathogen[ P14075] interacts with 3 human partners:{O14734;Q8N1Q8;Q5T1C6}  
7504 Pathogen[ P0C206] interacts with 5 human  
partners:{Q6ZUV0;Q8N1Q8;Q86TX2;O14734;Q5T1C6}  
7505 Pathogen[ P03363] interacts with 2 human partners:{O14734;Q6ZUV0}  
7506 [Cluster 683]GO:0005212+F molecular\_function [name] structural constituent of eye lens  
[def] "The action of a molecule that contributes to the structural integrity of the lens  
of an eye." [GOC  
7507 Pathogen[ Q2Q067] interacts with 8 human  
partners:{P05813;P53672;P02511;P07315;P07320;P08670;O14558;P02489}

7508 Pathogen[ P0C214] interacts with 11 human partners:{P07315;P53672;P02489;P02511;P11844;Q13515;P05813;P08670;P26998;O14558;P07320}

7509 Pathogen[ P03346] interacts with 10 human partners:{Q13515;P07320;P02489;P07316;P02511;P08670;P07315;P05813;O14558;P53672}

7510 Pathogen[ Q85601] interacts with 10 human partners:{P02489;P07315;P53672;P08670;Q13515;P02511;P11844;O14558;P07320;P05813}

7511 Pathogen[ P14079] interacts with 16 human partners:{P07320;P07316;P05813;P11844;P26998;P02511;P02489;P53673;P53674;P22914;O14558;Q13515;P53672;P08670;P07315;P43320}

7512 Pathogen[ P03383] interacts with 9 human partners:{Q13515;P11844;P08670;P02511;O14558;P53672;P07320;P05813;P07315}

7513 Pathogen[ P03410] interacts with 15 human partners:{P43320;P07315;P26998;P11844;Q13515;P07320;P53674;O14558;P02489;P02511;P08670;P05813;P07316;P22914;P53672}

7514 Pathogen[ P14075] interacts with 11 human partners:{P53673;P07320;P53672;P05813;Q13515;P11844;O14558;P02511;P26998;P08670;P07315}

7515 Pathogen[ P0C206] interacts with 13 human partners:{Q13515;P53673;P07320;P07315;P05813;P11844;P26998;P07316;P53672;P08670;P02511;O14558;P02489}

7516 Pathogen[ P03363] interacts with 10 human partners:{P07316;P53672;O14558;P11844;P07320;P08670;P07315;P02489;Q13515;P05813}

7517 [Cluster 684]GO:0001187+F molecular\_function [name] RNA polymerase I CORE element sequence-specific DNA binding transcription factor recruiting transcription factor activity [def] "Interacting selectively and non-covalently with the CORE element, a regulatory region composed of the transcription start site and binding sites for transcription factors of the RNA polymerase I transcription machinery and also binding to an RNA polymerase I (RNAP I) transcription factor to recruit it to the transcription machinery complex in order to modulate transcription by RNA polymerase I." [GOC

7518 Pathogen[ Q2Q067] interacts with 1 human partners:{Q53T94}

7519 Pathogen[ P0C214] interacts with 1 human partners:{Q53T94}

7520 Pathogen[ P03346] interacts with 1 human partners:{Q53T94}

7521 Pathogen[ Q85601] interacts with 1 human partners:{Q53T94}

7522 Pathogen[ P14079] interacts with 1 human partners:{Q53T94}

7523 Pathogen[ P03383] interacts with 1 human partners:{Q53T94}

7524 Pathogen[ P03410] interacts with 1 human partners:{Q53T94}

7525 Pathogen[ P14075] interacts with 1 human partners:{Q53T94}

7526 Pathogen[ P0C206] interacts with 1 human partners:{Q53T94}

7527 Pathogen[ P03363] interacts with 1 human partners:{Q53T94}

7528 [Cluster 685]GO:0004540+F molecular\_function [name] ribonuclease activity [def] "Catalysis of the hydrolysis of phosphodiester bonds in chains of RNA." [GOC

7529 Pathogen[ Q2Q067] interacts with 9 human partners:{P78346;Q9Y2L1;O60930;Q9BYK8;Q8TF46;Q969H6;O75792;O95707;O95059}

7530 Pathogen[ P0C214] interacts with 10 human partners:{Q969H6;Q9Y2L1;O75792;Q8TF46;Q9BYK8;O95059;O95707;O60930;Q8IYB7;P78346}

7531 Pathogen[ P03346] interacts with 10 human partners:{P78346;O60930;Q969H6;O95707;Q8IYB7;Q9Y2L1;Q9BYK8;O95059;Q8TF46;O75792}

7532 Pathogen[ Q85601] interacts with 10 human partners:{P78346;O95059;Q969H6;O75792;Q9Y2L1;Q8IYB7;O95707;Q9BYK8;O60930;Q8TF46}

7533 Pathogen[ P14079] interacts with 9 human partners:{P78346;Q9BYK8;O75792;Q8TF46;O95707;O95059;Q8IYB7;Q9Y2L1;O60930}

7534 Pathogen[ P03383] interacts with 8 human partners:{Q9Y2L1;O75792;Q969H6;O95059;O95707;O60930;P78346;Q9BYK8}

7535 Pathogen[ P03410] interacts with 10 human partners:{Q9Y2L1;P78346;Q9BYK8;O75792;Q8TF46;O60930;O95707;Q8IYB7;Q969H6;O95059}

7536 Pathogen[ P14075] interacts with 8 human partners:{O60930;Q9Y2L1;P78346;O75792;O95059;O95707;Q9BYK8;Q969H6}

7537 Pathogen[ P0C206] interacts with 10 human partners:{O95059;Q969H6;Q9BYK8;O60930;O95707;O75792;Q9Y2L1;Q8IYB7;P78346;Q8TF46}

7538 Pathogen[ P03363] interacts with 10 human partners:{O95059;O95707;O75792;Q8IYB7;Q9Y2L1;Q9BYK8;Q969H6;O60930;P78346;Q8TF46}

7539 [Cluster 686]GO:0051011+F molecular\_function [name] microtubule minus-end binding [def] "Interacting selectively and non-covalently with the minus end of a microtubule." [GOC

7540 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9P1Y5;O15078}

7541 Pathogen[ P0C214] interacts with 2 human partners:{O15078;Q9P1Y5}

7542 Pathogen[ P03346] interacts with 2 human partners:{Q9P1Y5;O15078}

7543 Pathogen[ Q85601] interacts with 2 human partners:{Q9P1Y5;O15078}

7544 Pathogen[ P14079] interacts with 2 human partners:{Q9P1Y5;O15078}

7545 Pathogen[ P03383] interacts with 2 human partners:{O15078;Q9P1Y5}

7546 Pathogen[ P03410] interacts with 2 human partners:{Q9P1Y5;O15078}

7547 Pathogen[ P14075] interacts with 2 human partners:{O15078;Q9P1Y5}

7548 Pathogen[ P0C206] interacts with 2 human partners:{Q9P1Y5;O15078}

7549 Pathogen[ P03363] interacts with 2 human partners:{O15078;Q9P1Y5}

7550 [Cluster 687]GO:0017025+F molecular\_function [name] TBP-class protein binding [def]

"Interacting selectively and non-covalently with a member of the class of TATA-binding proteins (TBP), including any of the TBP-related factors (TRFs)." [GOC

7551 Pathogen[ Q2Q067] interacts with 12 human  
partners:{O75155;P10827;P52657;Q86VP6;Q92994;Q9ULM3;Q01658;Q8IZX4;P52655;P21675;Q53T94;Q00403}

7552 Pathogen[ P0C214] interacts with 11 human  
partners:{P52657;P21675;P52655;Q00403;Q92994;O75155;Q8IZX4;Q01658;Q53T94;Q86VP6;Q9ULM3}

7553 Pathogen[ P03346] interacts with 12 human  
partners:{P10827;Q9ULM3;Q53T94;O75155;P52657;Q92994;P21675;Q01658;Q86VP6;Q8IZX4;Q00403;P52655}

7554 Pathogen[ Q85601] interacts with 12 human  
partners:{P52657;Q92994;Q86VP6;Q8IZX4;O75155;Q53T94;Q9ULM3;Q01658;Q00403;P10827;P21675;P52655}

7555 Pathogen[ P14079] interacts with 11 human  
partners:{Q92994;Q8IZX4;Q9ULM3;O75155;P10827;Q00403;P52657;Q86VP6;Q53T94;Q01658;P21675}

7556 Pathogen[ P03383] interacts with 11 human  
partners:{Q9ULM3;P52655;O75155;Q8IZX4;Q00403;P52657;Q92994;Q86VP6;P21675;Q01658;Q53T94}

7557 Pathogen[ P03410] interacts with 11 human  
partners:{Q8IZX4;P52655;Q92994;P21675;Q9ULM3;P52657;Q01658;Q86VP6;Q00403;Q53T94;O75155}

7558 Pathogen[ P14075] interacts with 11 human  
partners:{P21675;P52657;Q01658;Q53T94;Q00403;Q92994;Q9ULM3;Q86VP6;P52655;O75155;Q8IZX4}

7559 Pathogen[ P0C206] interacts with 12 human  
partners:{Q53T94;Q9ULM3;P52657;P52655;Q8IZX4;Q01658;Q92994;Q00403;Q86VP6;P10827;P21675;O75155}

7560 Pathogen[ P03363] interacts with 10 human  
partners:{Q8IZX4;P52657;Q00403;Q53T94;O75155;P21675;P52655;Q86VP6;Q9ULM3;Q01658}

7561 [Cluster 688]GO:0030371+F molecular\_function [name] translation repressor activity  
[def] "Antagonizes ribosome-mediated translation of mRNA into a polypeptide." [GOC

7562 Pathogen[ Q2Q067] interacts with 3 human partners:{O60516;Q8WY41;Q9BPZ3}

7563 Pathogen[ P0C214] interacts with 5 human  
partners:{Q9UPU9;O60516;Q9BPZ3;Q8WY41;Q14011}

7564 Pathogen[ P03346] interacts with 4 human partners:{Q9BPZ3;Q14011;Q8WY41;O60516}

7565 Pathogen[ Q85601] interacts with 4 human partners:{O60516;Q9BPZ3;Q8WY41;Q9UPU9}

7566 Pathogen[ P14079] interacts with 5 human  
partners:{Q8WY41;Q9UPU9;Q9BPZ3;Q14011;O60516}

7567 Pathogen[ P03383] interacts with 3 human partners:{Q8WY41;O60516;Q9BPZ3}

7568 Pathogen[ P03410] interacts with 5 human  
partners:{Q9BPZ3;Q9UPU9;Q14011;O60516;Q8WY41}

7569 Pathogen[ P14075] interacts with 3 human partners:{O60516;Q8WY41;Q9BPZ3}

7570 Pathogen[ P0C206] interacts with 5 human  
partners:{Q14011;Q8WY41;Q9UPU9;Q9BPZ3;O60516}

7571 Pathogen[ P03363] interacts with 5 human  
partners:{Q8WY41;Q9BPZ3;Q9UPU9;Q14011;O60516}

7572 [Cluster 689]GO:0005546+F molecular\_function [name]  
phosphatidylinositol-4,5-bisphosphate binding [def] "Interacting selectively and non-covalently with phosphatidylinositol-4,5-bisphosphate, a derivative of phosphatidylinositol in which the inositol ring is phosphorylated at the 4' and 5' positions." [GOC

7573 Pathogen[ Q2Q067] interacts with 9 human  
partners:{Q86VW0;P07737;P55895;P35080;Q8N7J2;Q9HCH5;Q5JTC6;Q02410;Q9Y3E7}

7574 Pathogen[ P0C214] interacts with 8 human  
partners:{P35080;Q86VW0;Q9HCH5;P55895;Q9Y3E7;Q02410;Q8N7J2;Q5JTC6}

7575 Pathogen[ P03346] interacts with 13 human  
partners:{Q8N7J2;P55895;Q9HCH5;Q02410;Q8TEW0;Q9Y3E7;Q86VW0;P35080;P07737;Q14CM0;Q9Y2J0;O75386;Q5JTC6}

7576 Pathogen[ Q85601] interacts with 9 human  
partners:{P35080;Q9HCH5;P07737;Q5JTC6;Q02410;Q8N7J2;Q9Y3E7;P55895;Q86VW0}

7577 Pathogen[ P14079] interacts with 11 human  
partners:{P09327;Q02410;P07737;Q9HCH5;P35080;Q8N7J2;Q8TEW0;Q9Y6U3;Q9Y3E7;Q86VW0;Q5JTC6}

7578 Pathogen[ P03383] interacts with 8 human  
partners:{P35080;Q9Y3E7;Q9HCH5;P07737;Q8N7J2;Q5JTC6;P55895;Q02410}

7579 Pathogen[ P03410] interacts with 14 human  
partners:{Q14CM0;Q9HCH5;P35080;Q9Y2J0;Q0JRZ9;P55895;Q9Y6U3;Q02410;Q9Y3E7;Q5JTC6;Q8TEW0;Q8N7J2;P07737;Q86VW0}

7580 Pathogen[ P14075] interacts with 8 human  
partners:{Q02410;Q9HCH5;P07737;Q9Y3E7;Q8N7J2;Q5JTC6;P35080;P55895}

7581 Pathogen[ P0C206] interacts with 11 human  
partners:{Q9Y3E7;Q9Y2J0;Q86VW0;Q8TEW0;P35080;Q8N7J2;P55895;Q9HCH5;P07737;Q5JTC6;Q02410}

7582 Pathogen[ P03363] interacts with 11 human

partners:{Q5JTC6;P35080;Q14CM0;Q02410;Q9Y3E7;O75386;P55895;Q9HCH5;Q86VW0;P07737;Q8N7J2}

7583 [Cluster 690]GO:0001164+F molecular\_function [name] RNA polymerase I CORE element sequence-specific DNA binding [def] "Interacting selectively and non-covalently with the regulatory region composed of the transcription start site and binding sites for transcription factors of the RNA polymerase I transcription machinery. This site is often referred to as the CORE element. In mammalian cells, the CORE element functions in conjunction with the Upstream Control Element (UCE), while in fungi, protozoa, and plants, the CORE element functions without a UCE." [GOC

7584 Pathogen[ Q2Q067] interacts with 1 human partners:{Q53T94}

7585 Pathogen[ P0C214] interacts with 1 human partners:{Q53T94}

7586 Pathogen[ P03346] interacts with 1 human partners:{Q53T94}

7587 Pathogen[ Q85601] interacts with 1 human partners:{Q53T94}

7588 Pathogen[ P14079] interacts with 1 human partners:{Q53T94}

7589 Pathogen[ P03383] interacts with 1 human partners:{Q53T94}

7590 Pathogen[ P03410] interacts with 1 human partners:{Q53T94}

7591 Pathogen[ P14075] interacts with 1 human partners:{Q53T94}

7592 Pathogen[ P0C206] interacts with 1 human partners:{Q53T94}

7593 Pathogen[ P03363] interacts with 1 human partners:{Q53T94}

7594 [Cluster 691]GO:0044212+F molecular\_function [name] transcription regulatory region DNA binding [def] "Interacting selectively and non-covalently with a DNA region that regulates the transcription of a region of DNA, which may be a gene, cistron, or operon. Binding may occur as a sequence specific interaction or as an interaction observed only once a factor has been recruited to the DNA by other factors." [GOC

7595 Pathogen[ Q2Q067] interacts with 92 human partners:{P25490;P01100;P56524;P10827;P20226;Q16594;Q6NUN9;Q99081;P14866;P40763;P36402;P46937;Q13485;P35680;P48380;P35712;Q9Y2X9;Q01664;Q8N5U6;P51531;Q15697;O96004;Q8HWS3;P08151;Q04206;Q99684;O94776;P41161;Q9NQX1;Q9BWX5;Q15542;O14686;O15350;Q9NPI1;Q96SN8;O75362;P08047;P28702;Q08050;Q9UQL0;Q9UQL6;Q8TAK5;Q99966;Q13469;P35548;Q6W2J9;P56693;P19532;Q14653;P84022;Q6P1X5;O00255;O15105;O95644;Q13127;O43541;P50750;Q96E29;P11161;Q8NI51;O43918;P35869;Q14865;O60907;P12956;P19838;P20823;P28698;Q9BZK7;Q15545;Q9UID6;P19484;P80723;Q9P1Z2;Q01860;P21675;Q49AM1;Q9BQA5;P13010;P35232;Q9UBL3;P15923;O75376;P49711;P35711;Q86X55;Q9BT81;Q06547;Q06546;P49715;P18146;P33076}

7596 Pathogen[ P0C214] interacts with 84 human partners:{Q8NI51;Q9UID6;Q15697;P35869;Q13469;Q06546;Q14865;P19838;Q06547;P13010;P21675;P50750;P19484;Q99081;P33076;O60907;O15350;Q96SN8;P01100;O75362;P35711;P56693;P46937;P84022;P56524;Q6W2J9;Q04206;Q49AM1;Q15545;Q9BT81;Q16594;Q15542;Q8N5U6;P28698;Q99966;P17535;P15923;O94776;Q9UQL0;Q13485;O15105;Q96E29;O75376;P19532;O43541;Q6P1X5;Q13127;P20226;Q14653;Q9Y2X9;O43918;P36402;Q8TAK5;P05412;P49711;P18146;Q9NPI1;Q9NQX1;Q9BZK7;P11061;P80723;P40763;O96004;P08151;Q86X55;P48380;Q99684;Q6NUN9;Q9BQA5;Q9P1Z2;O95644;P35232;P51531;Q01664;Q01860;P35712;Q9UQL6;P41161;P35548;P08047;P12956;Q8HWS3;O00255;P14866}

7597 Pathogen[ P03346] interacts with 112 human partners:{P31271;Q99081;Q9BZE0;Q8NI51;P05412;Q15542;P46937;Q9NQX1;P10827;P12956;Q99966;O60907;Q9UQL0;O43918;P19484;O14901;P36402;P14866;P35548;Q8TAK5;Q06547;Q15291;Q70SY1;Q9BWX5;Q15911;P25490;Q8N5U6;P80723;P48380;P15923;P56693;P56524;P17535;P13010;Q9NPI1;Q04206;P33076;O94776;P28698;P41161;Q08050;Q9UBL3;P20823;O15350;O15105;O95644;P49715;Q01860;Q13351;P08047;P20226;Q8N8E2;O96004;P28702;Q06710;P84022;Q8HWS3;P17542;Q9HCS4;O43541;Q5JT82;Q13469;Q06546;O00255;P19532;Q99684;Q96SN8;Q9P1Z2;Q96E29;P50750;P49711;Q6P1X5;P35680;Q15475;O14686;O75376;Q14653;Q14865;P35713;P21675;P11161;P35712;Q9BZK7;P35232;Q86X55;P19838;P56178;Q13485;Q9Y2X9;P18146;Q9UID6;Q15697;P51531;Q6NUN9;P35869;O00482;Q15545;O75593;P35711;Q49AM1;P40763;P01100;Q01664;Q9UQL6;Q6W2J9;Q9BT81;Q13127;Q9BQA5;P08151;Q16594;Q9UJU5}

7598 Pathogen[ Q85601] interacts with 98 human partners:{P18146;Q8NI51;Q15542;P28698;P08151;P33076;Q13127;Q9BWX5;Q86X55;O94776;P19484;P50750;Q9UQL6;Q06546;O43541;O60907;Q96SN8;Q99966;P40763;P28702;Q9Y2X9;Q6NUN9;Q15545;O14686;P25490;P35712;Q49AM1;Q13469;P19532;Q16594;O95644;O96004;P80723;P49711;Q9UID6;P08047;P51531;P01100;Q9UBL3;Q14653;P17535;Q9NQX1;P35711;Q04206;Q96E29;Q6P1X5;P35548;P35680;P05412;O00255;O75376;Q14865;P15923;P36402;P10827;P56693;Q8N5U6;Q99684;O00482;Q9BQA5;P84022;Q9NPI1;P31271;P49715;Q06547;P14866;P41161;Q9BZK7;P56524;P21675;P46937;Q08050;P35232;P35869;O15105;O15350;Q99081;O75362;Q8TAK5;Q15697;P48380;Q9P1Z2;Q9HCS4;Q8N8E2;P19838;P20823;Q9UQL0;Q13485;P11161;Q01664;Q01860;O43918;Q9BT81;Q8HWS3;P13010;P12956;P20226;Q6W2J9}

7599 Pathogen[ P14079] interacts with 90 human partners:{Q9UQL6;P35711;Q9NQX1;Q9NPI1;P08151;P33076;Q9BZK7;P35869;Q06413;Q9BWX5;Q9BT81;Q06546;Q14653;Q16594;Q15911;O75362;Q9UBL3;P35680;P13010;Q49AM1;Q6NUN9;P48380;O95644;Q14865;Q99684;O60907;P35712;Q9UID6;Q99966;P51531;P14866;Q8TAK5;O96004;P35232;P19484;P46937;P41161;Q96E29;Q9BQA5;P31271;P15923;Q06547;P10827;O15350;P36402;P28698;Q6W2J9;Q6P1X5;Q8HWS3;P12956;Q8N5U6;Q01860;P19532;P11161;O00482;P49715;Q15697;P28702;Q9Y2X9;Q01664;Q13351;Q9UQL0;P56693;O43541;Q8WWB7;O43918;O75376;P80723;Q13469;Q99081;P05412;P56524;Q13127;P25490;O15105;O14901;O94776;Q9P1Z2;O00255;P01100;Q96SN8;Q9BZE0;Q15542;P49711;P17535;Q8N8E2;Q8NI51;P21675;P50750;Q15545}

7600 Pathogen[ P03383] interacts with 80 human partners:{Q8NI51;P35712;Q13485;Q14653;P33076;P08047;Q8HWS3;P13010;Q13469;Q8TAK5;O94776;P49711;P14866;O75376;Q9UQL6;P19484;Q06547;O75362;O60907;Q96SN8;O95644;Q86X55;P48380;Q15542;P15923;Q01860;P28698;Q8N5U6;Q9NQX1;P18146;Q01664;P20226;Q6W2J9;O96004;O15105;

P41161;Q16594;P84022;Q9UID6;P35548;Q9BQA5;Q99081;Q96E29;O43541;P28702;P50750;P35711;Q15697;P51531;O15350;O00255;Q6P1X5;P36402;P35232;O43918;Q99684;Q9UKL0;P01100;P11161;P21675;Q9BZK7;P56524;Q04206;P17535;Q6NUN9;P80723;Q9NPI1;Q9Y2X9;Q15545;P19838;P35869;P56693;Q49AM1;P46937;Q06546;P19532;Q9P1Z2;P12956;Q13127;P05412}

7601 Pathogen[ P03410] interacts with 89 human partners: {P84022;Q04206;O14901;P35712;P19838;Q8N8E2;Q15697;Q6W2J9;O96004;Q49AM1;Q01860;Q9BQA5;P21675;P36402;Q96SN8;Q14653;O43918;Q86X55;P19532;P20226;P19484;O75376;Q06547;Q99684;P15923;P14866;P25490;P01100;Q9UQL6;O95644;Q9P1Z2;P50750;Q99081;Q13127;Q9Y2X9;P41161;P12956;P35548;Q6NUN9;Q9BWX5;P17535;Q8TAK5;O75362;P56524;Q6P1X5;P48380;Q13485;P28702;P56693;Q8WWB7;P46937;Q13469;Q16594;P05412;O43541;P49711;O15105;Q8NI51;P51531;O94776;Q9HCS4;Q01664;P35680;P28698;P13010;Q15542;O15350;P80723;Q9BZK7;P08047;Q9UKL0;P35232;Q9UID6;P18146;Q8N5U6;Q96E29;Q9BT81;Q14865;O00255;Q9NQX1;P11161;P40763;O60907;P33076;Q06546;Q15545;Q9NPI1;Q8HWS3;Q99966}

7602 Pathogen[ P14075] interacts with 80 human partners: {Q8NI51;P35869;P14866;P12956;Q04206;P21675;Q9NPI1;P05412;Q15542;Q9BQA5;Q15697;O43541;P80723;O75362;Q06546;Q6NUN9;Q9UKL0;Q9UID6;Q01860;P28698;P48380;P35548;P11161;Q6P1X5;P56524;O43918;Q08050;P18146;P19484;P33076;O94776;P50750;Q96SN8;P56693;P20226;P15923;Q16594;O75376;P35711;O96004;Q13485;P35232;O00255;Q8N5U6;Q9NQX1;Q14653;Q06547;Q01664;Q13469;Q6W2J9;O15350;Q99684;Q86X55;P35712;Q96E29;Q49AM1;P51531;O60907;Q9P1Z2;Q15545;O15105;P36402;P01100;Q9Y2X9;P49711;Q9BZK7;P28702;P46937;Q13127;P19838;Q9UQL6;P13010;P84022;Q99081;P17535;P19532;Q8HWS3;O95644;Q8TAK5;P08047}

7603 Pathogen[ P0C206] interacts with 102 human partners: {Q9UID6;Q8HWS3;P28698;Q6NUN9;P46937;P84022;Q9NQX1;Q9Y2X9;O43541;Q9BZE0;P13010;Q49AM1;Q06546;Q15545;Q96SN8;Q13469;Q13127;Q15911;Q9NPI1;Q8TAK5;P50750;P20226;P11161;P35869;P25490;O60907;Q6W2J9;Q15697;Q01860;P51531;Q9UKL0;Q86X55;P14866;O00255;P05412;Q8N8E2;Q8NI51;P17535;P49715;O94776;Q9HCS4;P19484;Q9P1Z2;P56693;P48380;O14686;P19532;Q8N5U6;Q9BQA5;P33076;O00482;Q96E29;P18146;O96004;Q9BT81;Q9BWX5;O43918;O15105;P19838;Q8WWB7;P35711;Q99081;P35232;P08047;P80723;P35680;P49711;P35548;P01100;Q04206;P15923;P20823;Q06547;Q9BZK7;O75376;P40763;Q13485;Q99684;Q15542;Q08050;Q6P1X5;Q01664;Q99966;Q9UBL3;O75362;P28702;P35712;P31271;O15350;O14901;O95644;Q14865;P56524;P08151;P41161;P12956;P36402;P10827;P21675;Q16594;Q14653;Q9UQL6}

7604 Pathogen[ P03363] interacts with 94 human partners: {Q9NQX1;Q15911;Q14653;P12956;Q99684;Q06547;P17535;O14901;Q8N5U6;P28698;P35711;Q14865;Q04206;P18146;P36402;P08151;Q06546;P13010;Q15291;P14866;P31271;Q9BZK7;P25490;Q9UBL3;O75376;O60907;Q15545;Q5JT82;Q9UQL6;P35548;Q6NUN9;O15105;Q9HCS4;Q9Y2X9;Q49AM1;Q8N8E2;Q8NI51;P35869;P49711;Q13127;P15923;Q08050;P46937;P56693;P28702;Q9P1Z2;O43541;Q9NPI1;Q9BQA5;P84022;P41161;O96004;Q15542;P19838;Q8TAK5;Q15697;Q13469;P21675;P33076;Q9BWX5;P35712;P20226;O75362;Q13485;P50750;P19484;O95644;P35232;P05412;P80723;P19532;Q9UKL0;O43918;P08047;Q99081;Q6W2J9;P48380;P51531;Q9UJU5;Q9BT81;Q8HWS3;Q9UID6;Q6P1X5;Q01664;Q9BZE0;Q01860;Q86X55;O14686;O94776;Q16594;Q96SN8;P01100;P11161;O00482}

7605 [Cluster 692]GO:0017076+F molecular\_function [name] purine nucleotide binding [def] "Interacting selectively and non-covalently with purine nucleotides, any compound consisting of a purine nucleoside esterified with (ortho)phosphate." [GOC]

7606 Pathogen[ Q2Q067] interacts with 1 human partners: {Q9NRY5}

7607 Pathogen[ P0C214] interacts with 4 human partners: {P35558;Q9NRY5;P23921;Q16822}

7608 Pathogen[ P03346] interacts with 1 human partners: {Q9NRY5}

7609 Pathogen[ Q85601] interacts with 1 human partners: {Q9NRY5}

7610 Pathogen[ P14079] interacts with 3 human partners: {P51606;Q9NRY5;Q9NPA0}

7611 Pathogen[ P03383] interacts with 2 human partners: {Q16822;Q9NRY5}

7612 Pathogen[ P03410] interacts with 5 human partners: {Q16822;P51606;Q9NPA0;Q9NRY5;P23921}

7613 Pathogen[ P14075] interacts with 2 human partners: {Q16822;Q9NRY5}

7614 Pathogen[ P0C206] interacts with 2 human partners: {Q16822;Q9NRY5}

7615 Pathogen[ P03363] interacts with 1 human partners: {Q9NRY5}

7616 [Cluster 693]GO:0031720+F molecular\_function [name] haptoglobin binding [def] "Interacting selectively and non-covalently with a haptoglobin, any alpha2 globulin of blood plasma that can combine with free oxyhemoglobin to form a stable complex." [GOC]

7617 Pathogen[ Q2Q067] interacts with 2 human partners: {P68871;P69905}

7618 Pathogen[ P0C214] interacts with 2 human partners: {P69905;P68871}

7619 Pathogen[ P03346] interacts with 2 human partners: {P69905;P68871}

7620 Pathogen[ Q85601] interacts with 2 human partners: {P69905;P68871}

7621 Pathogen[ P14079] interacts with 2 human partners: {P69905;P68871}

7622 Pathogen[ P03383] interacts with 2 human partners: {P69905;P68871}

7623 Pathogen[ P03410] interacts with 2 human partners: {P68871;P69905}

7624 Pathogen[ P14075] interacts with 2 human partners: {P68871;P69905}

7625 Pathogen[ P0C206] interacts with 2 human partners: {P68871;P69905}

7626 Pathogen[ P03363] interacts with 2 human partners: {P69905;P68871}

7627 [Cluster 694]GO:0004332+F molecular\_function [name] fructose-bisphosphate aldolase activity [def] "Catalysis of the reaction

7628 Pathogen[ Q2Q067] interacts with 2 human partners: {P05062;P09972}

7629 Pathogen[ P0C214] interacts with 2 human partners: {P05062;P09972}

7630 Pathogen[ P03346] interacts with 2 human partners: {P09972;P05062}

7631 Pathogen[ Q85601] interacts with 2 human partners: {P05062;P09972}

7632 Pathogen[ P14079] interacts with 1 human partners: {P09972}

7633 Pathogen[ P03383] interacts with 1 human partners: {P09972}

7634 Pathogen[ P03410] interacts with 2 human partners: {P05062;P09972}

7635 Pathogen[ P14075] interacts with 1 human partners:{P09972}  
7636 Pathogen[ P0C206] interacts with 2 human partners:{P05062;P09972}  
7637 Pathogen[ P03363] interacts with 1 human partners:{P09972}  
7638 [Cluster 695]GO:0000988+F molecular\_function [name] protein binding transcription factor activity [def] "Interacting selectively and non-covalently with any protein or protein complex (a complex of two or more proteins that may include other nonprotein molecules), in order to modulate transcription. A protein binding transcription factor may or may not also interact with the template nucleic acid (either DNA or RNA) as well." [GOC]  
7639 Pathogen[ Q2Q067] interacts with 7 human partners:{Q13485;Q9NQ87;P84022;Q8N895;P78337;Q9Y5J3;Q16526}  
7640 Pathogen[ P0C214] interacts with 8 human partners:{P78337;Q9Y5J3;P84022;Q13485;Q49AN0;Q16526;Q8N895;Q9NQ87}  
7641 Pathogen[ P03346] interacts with 11 human partners:{P78337;Q49AN0;Q8N895;Q16526;Q9Y5J3;O15055;O15534;P84022;Q9NQ87;Q9UBR4;Q13485}  
7642 Pathogen[ Q85601] interacts with 10 human partners:{O15534;Q49AN0;Q8N895;P78337;Q9NQ87;P84022;O15055;Q16526;Q13485;Q9Y5J3}  
7643 Pathogen[ P14079] interacts with 9 human partners:{Q8N895;Q16526;P78337;Q49AN0;Q9Y5J3;Q8WWB7;Q9NQ87;O15055;O15534}  
7644 Pathogen[ P03383] interacts with 6 human partners:{Q13485;Q9NQ87;P78337;P84022;Q8N895;Q16526}  
7645 Pathogen[ P03410] interacts with 11 human partners:{P84022;Q9Y5J3;Q9NQ87;O15055;O15534;Q13485;Q16526;Q8WWB7;Q49AN0;Q8N895;P78337}  
7646 Pathogen[ P14075] interacts with 6 human partners:{P78337;Q9NQ87;Q13485;Q8N895;Q16526;P84022}  
7647 Pathogen[ P0C206] interacts with 12 human partners:{P84022;Q9NQ87;O15534;Q8N895;P78337;Q8WWB7;Q16526;Q9Y5J3;Q13485;O15055;Q9UBR4;Q49AN0}  
7648 Pathogen[ P03363] interacts with 10 human partners:{Q9Y5J3;Q9NQ87;Q49AN0;P84022;Q8N895;Q16526;Q13485;O15055;P78337;O15534}  
7649 [Cluster 696]GO:0005496+F molecular\_function [name] steroid binding [def] "Interacting selectively and non-covalently with a steroid, any of a large group of substances that have in common a ring system based on 1,2-cyclopentanoperhydrophenanthrene." [GOC]  
7650 Pathogen[ Q2Q067] interacts with 3 human partners:{P62508;P08235;P11474}  
7651 Pathogen[ P0C214] interacts with 2 human partners:{P11474;P62508}  
7652 Pathogen[ P03346] interacts with 5 human partners:{P06401;P08235;O95718;P62508;P11474}  
7653 Pathogen[ Q85601] interacts with 3 human partners:{P08235;P11474;P62508}  
7654 Pathogen[ P14079] interacts with 7 human partners:{O75556;P62508;P08235;P11474;O95718;O00264;Q13296}  
7655 Pathogen[ P03383] interacts with 2 human partners:{P11474;P62508}  
7656 Pathogen[ P03410] interacts with 5 human partners:{Q13296;P62508;O00264;P11474;P08235}  
7657 Pathogen[ P14075] interacts with 4 human partners:{P11474;Q13296;O75556;P62508}  
7658 Pathogen[ P0C206] interacts with 7 human partners:{P06401;O95718;P62508;Q13296;O00264;P11474;P08235}  
7659 Pathogen[ P03363] interacts with 3 human partners:{P62508;P11474;P08235}  
7660 [Cluster 697]GO:0030295+F molecular\_function [name] protein kinase activator activity [def] "Increases the activity of a protein kinase, an enzyme which phosphorylates a protein." [GOC]  
7661 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9H4X1}  
7662 Pathogen[ P0C214] interacts with 2 human partners:{Q9H4X1;Q9Y376}  
7663 Pathogen[ P03346] interacts with 2 human partners:{Q9H4X1;Q9Y376}  
7664 Pathogen[ Q85601] interacts with 2 human partners:{Q9H4X1;Q9Y376}  
7665 Pathogen[ P14079] interacts with 1 human partners:{Q9Y376}  
7666 Pathogen[ P03383] interacts with 1 human partners:{Q9H4X1}  
7667 Pathogen[ P03410] interacts with 2 human partners:{Q9H4X1;Q9Y376}  
7668 Pathogen[ P14075] interacts with 1 human partners:{Q9H4X1}  
7669 Pathogen[ P0C206] interacts with 2 human partners:{Q9H4X1;Q9Y376}  
7670 Pathogen[ P03363] interacts with 2 human partners:{Q9H4X1;Q9Y376}  
7671 [Cluster 698]GO:0005047+F molecular\_function [name] signal recognition particle binding [def] "Interacting selectively and non-covalently with the signal recognition particle." [ISBN]  
7672 Pathogen[ Q2Q067] interacts with 2 human partners:{P49458;Q9UHB9}  
7673 Pathogen[ P0C214] interacts with 2 human partners:{Q9UHB9;P49458}  
7674 Pathogen[ P03346] interacts with 2 human partners:{P49458;Q9UHB9}  
7675 Pathogen[ Q85601] interacts with 1 human partners:{Q9UHB9}  
7676 Pathogen[ P14079] interacts with 2 human partners:{P49458;Q9UHB9}  
7677 Pathogen[ P03383] interacts with 2 human partners:{P49458;Q9UHB9}  
7678 Pathogen[ P03410] interacts with 2 human partners:{Q9UHB9;P49458}  
7679 Pathogen[ P14075] interacts with 2 human partners:{P49458;Q9UHB9}  
7680 Pathogen[ P0C206] interacts with 2 human partners:{P49458;Q9UHB9}  
7681 Pathogen[ P03363] interacts with 2 human partners:{Q9UHB9;P49458}

7682 [Cluster 699]GO:0008198+F molecular\_function [name] ferrous iron binding [def]  
"Interacting selectively and non-covalently with ferrous iron, Fe(II)." [GOC  
7683 Pathogen[ Q2Q067] interacts with 4 human partners:{Q6NS38;Q96Q83;Q96KS0;P06132}  
7684 Pathogen[ P0C214] interacts with 5 human  
partners:{P06132;Q96KS0;Q6NS38;P22830;Q96Q83}  
7685 Pathogen[ P03346] interacts with 3 human partners:{P06132;Q96Q83;Q96KS0}  
7686 Pathogen[ Q85601] interacts with 4 human partners:{Q96KS0;P06132;Q6NS38;Q96Q83}  
7687 Pathogen[ P14079] interacts with 7 human  
partners:{Q9C0B1;P06132;Q6NS38;P22830;Q16878;Q96Q83;Q96KS0}  
7688 Pathogen[ P03383] interacts with 3 human partners:{Q96KS0;P06132;Q96Q83}  
7689 Pathogen[ P03410] interacts with 6 human  
partners:{Q96KS0;Q96Q83;P06132;Q6NS38;P22830;Q9C0B1}  
7690 Pathogen[ P14075] interacts with 3 human partners:{Q96KS0;P06132;Q96Q83}  
7691 Pathogen[ P0C206] interacts with 5 human  
partners:{Q96Q83;Q96KS0;Q6NS38;P22830;P06132}  
7692 Pathogen[ P03363] interacts with 2 human partners:{P06132;Q96Q83}  
7693 [Cluster 700]GO:0050683+F molecular\_function [name] AF-1 domain binding [def]  
"Interacting selectively and non-covalently with the AF-1 domain of a protein, a  
ligand-independent transactivation domain which is required for the full transcriptional  
activity of the receptor." [PMID  
7694 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NQ87}  
7695 Pathogen[ P0C214] interacts with 1 human partners:{Q9NQ87}  
7696 Pathogen[ P03346] interacts with 1 human partners:{Q9NQ87}  
7697 Pathogen[ Q85601] interacts with 1 human partners:{Q9NQ87}  
7698 Pathogen[ P14079] interacts with 1 human partners:{Q9NQ87}  
7699 Pathogen[ P03383] interacts with 1 human partners:{Q9NQ87}  
7700 Pathogen[ P03410] interacts with 1 human partners:{Q9NQ87}  
7701 Pathogen[ P14075] interacts with 1 human partners:{Q9NQ87}  
7702 Pathogen[ P0C206] interacts with 1 human partners:{Q9NQ87}  
7703 Pathogen[ P03363] interacts with 1 human partners:{Q9NQ87}  
7704 [Cluster 701]GO:0008428+F molecular\_function [name] ribonuclease inhibitor activity  
[def] "Stops, prevents or reduces the activity of a ribonuclease, any enzyme that  
catalyzes the hydrolysis of phosphodiester bonds in chains of RNA." [GOC  
7705 Pathogen[ Q2Q067] interacts with 1 human partners:{P13489}  
7706 Pathogen[ P0C214] interacts with 1 human partners:{P13489}  
7707 Pathogen[ P03346] interacts with 1 human partners:{P13489}  
7708 Pathogen[ Q85601] interacts with 1 human partners:{P13489}  
7709 Pathogen[ P14079] interacts with 1 human partners:{P13489}  
7710 Pathogen[ P03383] interacts with 1 human partners:{P13489}  
7711 Pathogen[ P03410] interacts with 1 human partners:{P13489}  
7712 Pathogen[ P14075] interacts with 1 human partners:{P13489}  
7713 Pathogen[ P0C206] interacts with 1 human partners:{P13489}  
7714 Pathogen[ P03363] interacts with 1 human partners:{P13489}  
7715 [Cluster 702]GO:0016504+F molecular\_function [name] peptidase activator activity [def]  
"Increases the activity of a peptidase, any enzyme that catalyzes the hydrolysis peptide  
bonds." [GOC  
7716 Pathogen[ Q2Q067] interacts with 1 human partners:{076031}  
7717 Pathogen[ P0C214] interacts with 1 human partners:{076031}  
7718 Pathogen[ P03346] interacts with 1 human partners:{076031}  
7719 Pathogen[ Q85601] interacts with 1 human partners:{076031}  
7720 Pathogen[ P14079] interacts with 1 human partners:{076031}  
7721 Pathogen[ P03383] interacts with 1 human partners:{076031}  
7722 Pathogen[ P03410] interacts with 1 human partners:{076031}  
7723 Pathogen[ P14075] interacts with 1 human partners:{076031}  
7724 Pathogen[ P0C206] interacts with 1 human partners:{076031}  
7725 Pathogen[ P03363] interacts with 1 human partners:{076031}  
7726 [Cluster 703]GO:0001105+F molecular\_function [name] RNA polymerase II transcription  
coactivator activity [def] "Interacting selectively and non-covalently with an RNA  
polymerase II (RNAP II) regulatory transcription factor and also with the RNAP II basal  
transcription machinery in order to increase the frequency, rate or extent of  
transcription. Cofactors generally do not bind DNA, but rather mediate protein-protein  
interactions between activating transcription factors and the basal RNAP II transcription  
machinery." [GOC  
7727 Pathogen[ Q2Q067] interacts with 11 human  
partners:{Q13562;Q03052;Q8WW38;P51531;P20265;P28069;Q15327;O75475;O15370;Q92793;Q0207  
8}  
7728 Pathogen[ P0C214] interacts with 10 human  
partners:{Q03052;Q15327;Q92793;P20265;Q02078;Q8WW38;O75475;P28069;O15370;P51531}  
7729 Pathogen[ P03346] interacts with 13 human  
partners:{Q06945;Q02078;Q03052;O15370;Q8WW38;O75475;Q15327;P20265;Q92481;P28069;Q9279  
3;P51531;Q13562}  
7730 Pathogen[ Q85601] interacts with 11 human  
partners:{Q02078;Q03052;Q8WW38;P28069;P51531;Q13562;O15370;Q15327;Q92793;O75475;P2026  
5}  
7731 Pathogen[ P14079] interacts with 10 human  
partners:{Q02078;O15370;P20265;Q92793;O75475;P51531;P28069;Q15327;Q03052;Q8WW38}



7732 Pathogen[ P03383] interacts with 9 human partners:{P28069;Q8WW38;P51531;O75475;O15370;Q15327;P20265;Q92793;Q02078}

7733 Pathogen[ P03410] interacts with 10 human partners:{P28069;Q15327;Q03052;Q8WW38;Q92793;P51531;Q02078;O75475;O15370;P20265}

7734 Pathogen[ P14075] interacts with 9 human partners:{P28069;O75475;Q15327;P20265;Q8WW38;O15370;P51531;Q02078;Q92793}

7735 Pathogen[ P0C206] interacts with 11 human partners:{Q02078;P51531;Q15327;Q8WW38;O75475;Q92793;Q03052;O15370;Q13562;P20265;P28069}

7736 Pathogen[ P03363] interacts with 10 human partners:{O15370;O75475;Q15327;P28069;P20265;Q92793;Q8WW38;P51531;Q03052;Q02078}

7737 [Cluster 704]GO:0031433+F molecular\_function [name] telethonin binding [def] "Interacting selectively and non-covalently with telethonin, a protein found in the Z disc of striated muscle and which is a substrate of the titin kinase." [GOC

7738 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NPC6}

7739 Pathogen[ P0C214] interacts with 1 human partners:{Q9NPC6}

7740 Pathogen[ P03346] interacts with 1 human partners:{Q9NPC6}

7741 Pathogen[ Q85601] interacts with 1 human partners:{Q9NPC6}

7742 Pathogen[ P14079] interacts with 1 human partners:{Q9NPC6}

7743 Pathogen[ P03383] interacts with 1 human partners:{Q9NPC6}

7744 Pathogen[ P03410] interacts with 1 human partners:{Q9NPC6}

7745 Pathogen[ P14075] interacts with 1 human partners:{Q9NPC6}

7746 Pathogen[ P0C206] interacts with 2 human partners:{P50461;Q9NPC6}

7747 Pathogen[ P03363] interacts with 1 human partners:{Q9NPC6}

7748 [Cluster 705]GO:0003689+F molecular\_function [name] DNA clamp loader activity [def] "Catalysis of the reaction

7749 Pathogen[ Q2Q067] interacts with 1 human partners:{P35251}

7750 Pathogen[ P0C214] interacts with 1 human partners:{P35251}

7751 Pathogen[ P03346] interacts with 1 human partners:{P35251}

7752 Pathogen[ Q85601] interacts with 1 human partners:{P35251}

7753 Pathogen[ P14079] interacts with 1 human partners:{P35251}

7754 Pathogen[ P03383] interacts with 1 human partners:{P35251}

7755 Pathogen[ P03410] interacts with 1 human partners:{P35251}

7756 Pathogen[ P14075] interacts with 1 human partners:{P35251}

7757 Pathogen[ P0C206] interacts with 1 human partners:{P35251}

7758 Pathogen[ P03363] interacts with 1 human partners:{P35251}

7759 [Cluster 706]GO:0032947+F molecular\_function [name] protein complex scaffold [def] "Functions to provide a physical support for the assembly of a multiprotein complex." [GOC

7760 Pathogen[ Q2Q067] interacts with 7 human partners:{Q9P0M2;Q12959;Q96GM5;Q9NX63;O43504;Q13023;Q9H1K1}

7761 Pathogen[ P0C214] interacts with 8 human partners:{Q13023;Q9P0M2;Q9H1K1;Q9NX63;Q12959;O43504;P55884;Q96GM5}

7762 Pathogen[ P03346] interacts with 11 human partners:{Q9P0M2;Q96GM5;Q9H1K1;Q13023;P55884;Q15019;Q9UKA4;Q5T2T1;O43504;Q9NX63;Q12959}

7763 Pathogen[ Q85601] interacts with 6 human partners:{Q96GM5;Q9P0M2;Q12959;Q9NX63;Q9H1K1;Q13023}

7764 Pathogen[ P14079] interacts with 12 human partners:{Q9UKA4;Q9Y2Q5;Q13023;Q9P0M2;Q5T2T1;Q9H1K1;Q9UHA4;Q0VGL1;Q6IAA8;Q96GM5;O43504;P55884}

7765 Pathogen[ P03383] interacts with 5 human partners:{Q9NX63;Q9H1K1;Q13023;Q96GM5;O43504}

7766 Pathogen[ P03410] interacts with 14 human partners:{Q9Y2Q5;O43504;Q9UKA4;Q96GM5;Q12959;Q9UHA4;Q9H1K1;P55884;Q5T2T1;Q9P0M2;Q13023;Q9NX63;Q6IAA8;Q0VGL1}

7767 Pathogen[ P14075] interacts with 5 human partners:{Q9NX63;Q96GM5;O43504;Q9H1K1;Q13023}

7768 Pathogen[ P0C206] interacts with 12 human partners:{Q9H1K1;Q9UHA4;Q15019;Q13023;O43504;Q9NX63;Q5T2T1;Q9P0M2;Q96GM5;Q12959;Q9UKA4;Q9UIG0}

7769 Pathogen[ P03363] interacts with 9 human partners:{Q12959;Q5T2T1;O43504;Q9P0M2;Q9H1K1;Q13023;Q96GM5;Q9NX63;P55884}

7770 [Cluster 707]GO:0030276+F molecular\_function [name] clathrin binding [def] "Interacting selectively and non-covalently with a clathrin heavy or light chain, the main components of the coat of coated vesicles and coated pits, and which also occurs in synaptic vesicles." [GOC

7771 Pathogen[ Q2Q067] interacts with 4 human partners:{O00291;P63010;Q14677;Q6ULP2}

7772 Pathogen[ P0C214] interacts with 4 human partners:{P63010;Q6ULP2;O00291;Q14677}

7773 Pathogen[ P03346] interacts with 5 human partners:{P63010;O00291;Q13492;Q6ULP2;Q14677}

7774 Pathogen[ Q85601] interacts with 4 human partners:{Q14677;Q6ULP2;O00291;P63010}

7775 Pathogen[ P14079] interacts with 5 human partners:{Q13492;O00291;Q6ULP2;Q14677;P63010}

7776 Pathogen[ P03383] interacts with 4 human partners:{O00291;P63010;Q14677;Q6ULP2}

7777 Pathogen[ P03410] interacts with 5 human

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partners:{000291;Q13492;Q14677;P63010;Q6ULP2}
7778 Pathogen[ P14075] interacts with 4 human partners:{000291;Q14677;P63010;Q6ULP2}
7779 Pathogen[ P0C206] interacts with 4 human partners:{P63010;000291;Q6ULP2;Q14677}
7780 Pathogen[ P03363] interacts with 4 human partners:{Q6ULP2;Q14677;P63010;000291}
7781 [Cluster 708]GO:0002134+F molecular_function [name] UTP binding [def] "Interacting
selectively and non-covalently with UTP, uridine 5'-triphosphate." [GOC
7782 Pathogen[ Q2Q067] interacts with 2 human partners:{P08238;Q9NVV4}
7783 Pathogen[ P0C214] interacts with 1 human partners:{Q9NVV4}
7784 Pathogen[ P03346] interacts with 2 human partners:{Q9NVV4;P08238}
7785 Pathogen[ Q85601] interacts with 2 human partners:{P08238;Q9NVV4}
7786 Pathogen[ P14079] interacts with 2 human partners:{P08238;Q9NVV4}
7787 Pathogen[ P03383] interacts with 2 human partners:{Q9NVV4;P08238}
7788 Pathogen[ P03410] interacts with 2 human partners:{P08238;Q9NVV4}
7789 Pathogen[ P14075] interacts with 2 human partners:{Q9NVV4;P08238}
7790 Pathogen[ P0C206] interacts with 2 human partners:{P08238;Q9NVV4}
7791 Pathogen[ P03363] interacts with 2 human partners:{Q9NVV4;P08238}
7792 [Cluster 709]GO:0050144+F molecular_function [name] nucleoside deoxyribosyltransferase
activity [def] "Catalysis of the reaction
7793 Pathogen[ Q2Q067] interacts with 1 human partners:{043598}
7794 Pathogen[ P0C214] interacts with 1 human partners:{043598}
7795 Pathogen[ P03346] interacts with 1 human partners:{043598}
7796 Pathogen[ Q85601] interacts with 1 human partners:{043598}
7797 Pathogen[ P14079] interacts with 1 human partners:{043598}
7798 Pathogen[ P03383] interacts with 1 human partners:{043598}
7799 Pathogen[ P03410] interacts with 1 human partners:{043598}
7800 Pathogen[ P14075] interacts with 1 human partners:{043598}
7801 Pathogen[ P0C206] interacts with 1 human partners:{043598}
7802 Pathogen[ P03363] interacts with 1 human partners:{043598}
7803 [Cluster 710]GO:0035497+F molecular_function [name] cAMP response element binding
[def] "Interacting selectively and non-covalently with the cyclic AMP response element
(CRE), a short palindrome-containing sequence found in the promoters of genes whose
expression is regulated in response to cyclic AMP." [PMID
7804 Pathogen[ Q2Q067] interacts with 2 human partners:{P15336;Q66K89}
7805 Pathogen[ P0C214] interacts with 4 human partners:{P15336;P05412;P16220;Q66K89}
7806 Pathogen[ P03346] interacts with 5 human
partners:{P05412;P16220;P15336;Q70SY1;Q66K89}
7807 Pathogen[ Q85601] interacts with 4 human partners:{P16220;P05412;Q66K89;P15336}
7808 Pathogen[ P14079] interacts with 3 human partners:{Q66K89;P15336;P05412}
7809 Pathogen[ P03383] interacts with 4 human partners:{P16220;Q66K89;P15336;P05412}
7810 Pathogen[ P03410] interacts with 4 human partners:{Q66K89;P16220;P05412;P15336}
7811 Pathogen[ P14075] interacts with 4 human partners:{P05412;P15336;Q66K89;P16220}
7812 Pathogen[ P0C206] interacts with 4 human partners:{P16220;P05412;P15336;Q66K89}
7813 Pathogen[ P03363] interacts with 4 human partners:{P16220;Q66K89;P15336;P05412}
7814 [Cluster 711]GO:0050662+F molecular_function [name] coenzyme binding [def]
"Interacting selectively and non-covalently with a coenzyme, any of various nonprotein
organic cofactors that are required, in addition to an enzyme and a substrate, for an
enzymatic reaction to proceed." [ISBN
7815 Pathogen[ Q2Q067] interacts with 5 human
partners:{P30793;P22557;Q9NZC7;P08397;Q16836}
7816 Pathogen[ P0C214] interacts with 10 human
partners:{Q16795;P52209;Q8N335;P40939;P22557;Q9Y2S2;Q9NZC7;P08397;P30793;P21695}
7817 Pathogen[ P03346] interacts with 3 human partners:{Q16836;P22557;Q9NZC7}
7818 Pathogen[ Q85601] interacts with 4 human partners:{Q9NZC7;P30793;Q16836;P08397}
7819 Pathogen[ P14079] interacts with 7 human
partners:{P52209;P22557;P30793;Q9NZC7;P08397;P21695;Q16836}
7820 Pathogen[ P03383] interacts with 2 human partners:{Q16836;P08397}
7821 Pathogen[ P03410] interacts with 7 human
partners:{P08397;Q9NZC7;P30793;P52209;P22557;Q16836;P21695}
7822 Pathogen[ P14075] interacts with 3 human partners:{P08397;Q16836;P30793}
7823 Pathogen[ P0C206] interacts with 5 human
partners:{Q16836;P30793;P22557;Q9NZC7;P08397}
7824 Pathogen[ P03363] interacts with 1 human partners:{Q16836}
7825 [Cluster 712]GO:0050265+F molecular_function [name] RNA uridylyltransferase activity
[def] "Catalysis of the reaction
7826 Pathogen[ Q2Q067] interacts with 1 human partners:{Q5TAX3}
7827 Pathogen[ P0C214] interacts with 1 human partners:{Q5TAX3}
7828 Pathogen[ P03346] interacts with 1 human partners:{Q5TAX3}
7829 Pathogen[ Q85601] interacts with 1 human partners:{Q5TAX3}
7830 Pathogen[ P14079] interacts with 1 human partners:{Q5TAX3}
7831 Pathogen[ P03383] interacts with 1 human partners:{Q5TAX3}
7832 Pathogen[ P03410] interacts with 1 human partners:{Q5TAX3}
7833 Pathogen[ P14075] interacts with 1 human partners:{Q5TAX3}
7834 Pathogen[ P0C206] interacts with 1 human partners:{Q5TAX3}
7835 Pathogen[ P03363] interacts with 1 human partners:{Q5TAX3}
7836 [Cluster 713]GO:0032794+F molecular_function [name] GTPase activating protein binding
[def] "Interacting selectively and non-covalently with a GTPase activating protein." [GOC

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7837 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13526}  
7838 Pathogen[ P0C214] interacts with 1 human partners:{Q13526}  
7839 Pathogen[ P03346] interacts with 1 human partners:{Q13526}  
7840 Pathogen[ Q85601] interacts with 1 human partners:{Q13526}  
7841 Pathogen[ P14079] interacts with 1 human partners:{Q13526}  
7842 Pathogen[ P03383] interacts with 1 human partners:{Q13526}  
7843 Pathogen[ P03410] interacts with 1 human partners:{Q13526}  
7844 Pathogen[ P14075] interacts with 1 human partners:{Q13526}  
7845 Pathogen[ P0C206] interacts with 1 human partners:{Q13526}  
7846 Pathogen[ P03363] interacts with 1 human partners:{Q13526}  
7847 [Cluster 714]GO:0008601+F molecular\_function [name] protein phosphatase type 2A regulator activity [def] "Modulation of the activity of the enzyme protein phosphatase type 2A." [GOC  
7848 Pathogen[ Q2Q067] interacts with 15 human partners:{P30153;P63151;Q86XL3;Q01105;Q66LE6;Q15172;Q15173;Q9Y5P8;O43768;Q00005;P56211;Q15257;Q16537;P78318;Q14738}  
7849 Pathogen[ P0C214] interacts with 15 human partners:{O43768;Q16537;Q00005;P78318;P30153;Q15172;Q66LE6;Q15257;Q01105;P56211;Q15173;Q86XL3;P63151;Q14738;Q9Y5P8}  
7850 Pathogen[ P03346] interacts with 17 human partners:{Q15172;Q66LE6;Q00005;Q13362;Q01105;Q15257;P56211;O43768;P30153;Q9Y5P8;Q06190;Q14738;Q16537;Q86XL3;Q15173;P78318;P63151}  
7851 Pathogen[ Q85601] interacts with 15 human partners:{P63151;Q00005;Q01105;Q14738;P30153;Q15172;Q15173;Q66LE6;P56211;Q86XL3;Q16537;O43768;Q15257;P78318;Q9Y5P8}  
7852 Pathogen[ P14079] interacts with 16 human partners:{Q13362;Q01105;Q14738;O43768;Q15173;Q16537;Q15172;Q86XL3;P56211;P63151;Q00005;Q66LE6;Q06190;P30153;Q9Y5P8;P78318}  
7853 Pathogen[ P03383] interacts with 11 human partners:{Q01105;Q15173;Q15257;Q00005;Q14738;P30153;Q9Y5P8;O43768;Q16537;P78318;P56211}  
7854 Pathogen[ P03410] interacts with 17 human partners:{P78318;Q15172;Q15173;Q15257;Q01105;P63151;Q06190;Q16537;O43768;Q14738;P30153;Q00005;Q13362;Q66LE6;P56211;Q86XL3;Q9Y5P8}  
7855 Pathogen[ P14075] interacts with 11 human partners:{Q9Y5P8;Q15257;Q00005;Q16537;Q01105;O43768;Q14738;Q15173;P78318;P30153;P56211}  
7856 Pathogen[ P0C206] interacts with 17 human partners:{Q06190;P78318;Q16537;P30153;Q86XL3;P56211;Q15172;Q66LE6;Q15173;P63151;Q14738;O43768;Q13362;Q00005;Q9Y5P8;Q01105;Q15257}  
7857 Pathogen[ P03363] interacts with 17 human partners:{Q9Y5P8;Q16537;Q13362;Q00005;Q14738;Q06190;Q66LE6;P63151;P78318;O43768;Q15173;Q15172;Q15257;P56211;Q01105;P30153;Q86XL3}  
7858 [Cluster 715]GO:0043997+F molecular\_function [name] histone acetyltransferase activity (H4-K12 specific) [def] "Catalysis of the reaction  
7859 Pathogen[ Q2Q067] interacts with 1 human partners:{Q92830}  
7860 Pathogen[ P0C214] interacts with 1 human partners:{Q92830}  
7861 Pathogen[ P03346] interacts with 1 human partners:{Q92830}  
7862 Pathogen[ Q85601] interacts with 1 human partners:{Q92830}  
7863 Pathogen[ P14079] interacts with 1 human partners:{Q92830}  
7864 Pathogen[ P03383] interacts with 1 human partners:{Q92830}  
7865 Pathogen[ P03410] interacts with 1 human partners:{Q92830}  
7866 Pathogen[ P14075] interacts with 1 human partners:{Q92830}  
7867 Pathogen[ P0C206] interacts with 1 human partners:{Q92830}  
7868 Pathogen[ P03363] interacts with 1 human partners:{Q92830}  
7869 [Cluster 716]GO:0030159+F molecular\_function [name] receptor signaling complex scaffold activity [def] "Functions to provide a physical support for the assembly of a multiprotein receptor signaling complex." [GOC  
7870 Pathogen[ Q2Q067] interacts with 6 human partners:{Q8WXF8;O43639;Q86UL8;P16333;P37198;Q96T76}  
7871 Pathogen[ P0C214] interacts with 5 human partners:{Q8WXF8;O43639;P37198;P16333;Q96T76}  
7872 Pathogen[ P03346] interacts with 7 human partners:{O43639;Q8WXF8;Q9BWT7;P37198;P16333;Q86UL8;Q96T76}  
7873 Pathogen[ Q85601] interacts with 5 human partners:{Q96T76;P16333;Q86UL8;O43639;Q8WXF8}  
7874 Pathogen[ P14079] interacts with 7 human partners:{P16333;P37198;Q86UL8;O43639;Q8WXF8;Q9BZX4;Q96T76}  
7875 Pathogen[ P03383] interacts with 4 human partners:{Q96T76;Q8WXF8;P37198;P16333}  
7876 Pathogen[ P03410] interacts with 7 human partners:{Q8WXF8;Q96T76;O43639;Q9BZX4;P16333;Q86UL8;Q9BWT7}  
7877 Pathogen[ P14075] interacts with 4 human partners:{P16333;P37198;Q8WXF8;Q96T76}  
7878 Pathogen[ P0C206] interacts with 6 human partners:{Q8WXF8;Q9BWT7;P16333;Q96T76;Q86UL8;O43639}  
7879 Pathogen[ P03363] interacts with 7 human partners:{O43639;Q96T76;Q9BWT7;P16333;Q86UL8;P37198;Q8WXF8}

7880 [Cluster 717]GO:0008353+F molecular\_function [name] RNA polymerase II carboxy-terminal domain kinase activity [def] "Catalysis of the reaction

7881 Pathogen[ Q2Q067] interacts with 9 human  
partners:{Q13889;P32780;Q92759;P51948;P50750;P50613;P49336;Q13888;P51946}

7882 Pathogen[ P0C214] interacts with 8 human  
partners:{P51946;P50750;P50613;P51948;P49336;P32780;Q13888;Q92759}

7883 Pathogen[ P03346] interacts with 8 human  
partners:{P49336;Q13888;Q13889;P51946;P50750;Q92759;P51948;P32780}

7884 Pathogen[ Q85601] interacts with 9 human  
partners:{P51946;P50750;Q13888;P49336;P51948;Q92759;P32780;P50613;P19447}

7885 Pathogen[ P14079] interacts with 11 human  
partners:{Q14004;P49336;P51946;Q13889;P50613;Q13888;Q92759;P32780;P19447;P50750;P51948}

7886 Pathogen[ P03383] interacts with 9 human  
partners:{Q9NYV4;P51948;Q13888;P49336;P50613;P51946;P50750;Q92759;P32780}

7887 Pathogen[ P03410] interacts with 10 human  
partners:{Q13889;P51946;P50613;P50750;P19447;P49336;P51948;Q13888;P32780;Q92759}

7888 Pathogen[ P14075] interacts with 10 human  
partners:{P49336;Q92759;P50613;P50750;Q13889;P51946;P32780;Q9NYV4;P51948;Q13888}

7889 Pathogen[ P0C206] interacts with 10 human  
partners:{P49336;P50750;P19447;Q13888;P50613;Q92759;P32780;Q13889;P51946;P51948}

7890 Pathogen[ P03363] interacts with 6 human  
partners:{Q13888;P32780;Q92759;P51946;P49336;P50750}

7891 [Cluster 718]GO:0008168+F molecular\_function [name] methyltransferase activity [def] "Catalysis of the transfer of a methyl group to an acceptor molecule." [ISBN

7892 Pathogen[ Q2Q067] interacts with 64 human  
partners:{O43463;Q96CB9;O14744;Q8IZD2;Q9NVM4;O60294;P22087;Q9H5Q4;Q96LA8;O43159;Q15910;P46087;Q9NR48;Q8WVM0;Q8NE18;Q9Y6K1;Q9Y5N5;P55345;P22061;Q9UBP6;Q92800;Q9H825;O14686;A6NHQ2;Q8TBK2;Q7L0Y3;Q6PF06;Q96DP5;Q14749;Q9UIC8;Q9NR22;O43148;Q92979;Q99873;Q9UBC3;Q9NRG4;Q8N1G2;Q15047;Q08J23;P26358;Q86Y97;Q96RS0;Q9BV86;Q96FX7;Q7L592;P04818;Q7Z5W3;Q32P41;Q9UI43;Q9BVS5;P16455;Q5T8I9;O60869;Q8TEK3;Q9UNQ2;P51580;Q9H7H0;Q9H5I1;Q86X55;Q86TU7;Q8IY81;O96028;Q8WTS6;Q9NUP7}

7893 Pathogen[ P0C214] interacts with 78 human  
partners:{Q9H825;Q96FX7;Q9HBK9;Q9H5I1;P04818;Q15047;P46087;Q7L0Y3;O43159;P0C7V9;Q6PF06;A6NJ78;Q9NVM4;Q9H7H0;A6NHQ2;P51580;P40261;P34897;Q96DP5;Q9Y6K1;Q9UNQ2;P22087;Q99873;Q15910;P55345;Q8N6Q8;O43463;Q9UET6;O43148;Q7L592;Q8NE18;Q86W50;P22061;Q14749;Q7Z5W3;Q92979;P26358;Q08J23;Q8IYL2;Q5T8I9;Q9Y5N5;Q9UI43;Q86TU7;O60294;Q8IY81;Q96RS0;Q86Y97;Q9UBP6;P16455;Q32P41;Q9NUP7;Q8IXQ9;Q8TEA1;Q9NR48;Q8N1G2;Q9HCE5;Q8WVM0;Q96BT7;Q86X55;Q9UIC8;Q6IN84;O60869;Q8WTS6;Q9NQR1;Q92800;Q9NRG4;Q96CB9;Q5HYK3;Q9BV86;Q9BVS5;Q9NR22;Q9NUV7;Q8TBK2;Q8IZD2;Q96LA8;Q9H5Q4;Q8TEK3;O96028}

7894 Pathogen[ P03346] interacts with 83 human  
partners:{Q08J23;Q9HCE5;Q96FX7;P50135;Q9Y6K1;P22061;Q9NQV7;A6NJ78;Q92979;Q99873;Q5T8I9;Q92800;Q86Y97;Q8IXQ9;Q32P41;Q9NQR1;A6NHQ2;Q9Y5N5;P51580;Q8TBK2;O43159;Q8IYL2;Q8TEK3;O14744;Q9UIC8;Q9BYW2;Q9H825;Q9UBC3;P26358;Q14749;O43463;Q9NRG4;Q9UNQ2;O60294;P0C7V9;O43148;Q96DP5;Q7Z624;Q8WTS6;Q86U44;Q9BVS5;P46087;P55345;Q9NR22;Q9NVM4;Q9BVS5;Q96RS0;Q7L592;Q8N1G2;O14717;O14686;Q9UBP6;Q15910;Q8IY81;Q96BT7;Q9NUP7;Q9H7H0;Q8WVM0;Q6IN84;Q15047;Q6PF06;Q86X55;Q96GJ1;Q5HYK3;O95050;Q9BV86;P22087;Q7L0Y3;Q13029;Q7Z5W3;Q9NR48;O60869;Q9H5I1;Q13395;Q9UI43;Q8IZD2;P40261;Q9HBK9;Q96LA8;Q96CB9;O96028;Q8NE18;Q86TU7}

7895 Pathogen[ Q85601] interacts with 68 human  
partners:{Q9H5I1;Q32P41;P46087;Q9NQV7;O43148;Q8N1G2;Q9NR22;Q86X55;Q9BVS5;Q8TBK2;Q9NQR1;Q92979;A6NHQ2;P16455;Q9NR48;Q8N6Q8;Q9UBP6;Q86TU7;Q9H825;Q9NVM4;Q7Z5W3;Q9BV86;O14686;Q9Y5N5;Q5T8I9;O43159;P26358;Q96FX7;O14744;O43463;Q9H7H0;Q8NE18;O60294;Q8TEA1;Q9UI43;Q8WTS6;Q99873;Q6PF06;Q08J23;Q8IYL2;Q9UET6;Q9Y6K1;Q96RS0;P22061;Q8IY81;Q8TEK3;Q9NUP7;Q86Y97;Q15910;P22087;Q9NRG4;Q9H5Q4;Q7L0Y3;Q8WVM0;Q9HCE5;Q15047;O60869;Q9UIC8;Q92800;Q8IXQ9;Q8IZD2;Q14749;Q96LA8;Q96CB9;Q9UBC3;P55345;O96028;Q9UNQ2}

7896 Pathogen[ P14079] interacts with 91 human  
partners:{Q6PF06;Q92979;Q96RS0;Q9NR22;O60294;Q8TBZ6;Q9UI43;Q15047;Q9HC36;Q7L592;Q96LA8;Q9NRG4;Q7L2J0;Q9Y6K1;Q9Y5N5;Q6IPR3;Q9UNQ2;Q99873;Q9NVM4;Q5JXM2;P50135;Q8N1G2;Q9NUP7;Q9BV86;Q7Z4G4;Q86TU7;Q9NRN9;Q92800;P16455;P34897;A6NHQ2;O60869;Q32P41;Q8TEA1;O60678;Q8IY81;P0C7V9;P22087;Q9HCE5;Q9H5I1;Q86U44;Q9UIC8;A6NJ78;O43148;P55345;O14744;Q9UBC3;Q14749;Q14353;Q63ZY6;Q8TEK3;Q9UET6;Q9NQR1;P46087;Q96P11;Q08J23;P26358;Q9H649;Q8IXQ9;Q9HBK9;Q6IN84;Q8N3J2;Q9Y5R4;Q96CB9;O43159;Q8N6Q8;Q9H7H0;Q96GJ1;Q8TBK2;Q9BVS5;Q9NQV7;Q15910;Q9H5Q4;Q13395;Q9H2M3;Q8IYL2;P51580;P04818;Q5HYK3;Q96FX7;Q86Y97;Q7L0Y3;Q9BV44;Q8NE18;Q7Z624;O95050;Q96DP5;Q7Z5W3;Q8WTS6;Q86W50;Q8WVM0}

7897 Pathogen[ P03383] interacts with 58 human  
partners:{Q15047;O43148;Q7L592;Q9NRG4;O43463;Q86X55;Q8IYL2;Q9UBP6;Q9H825;Q9UNQ2;Q86Y97;Q5T8I9;Q9H5Q4;Q9BVS5;Q9UI43;Q86TU7;Q7L0Y3;Q32P41;O14744;A6NJ78;P0C7V9;O43159;Q8WTS6;Q9UET6;Q99873;Q9Y6K1;Q9NR22;Q8IY81;O60294;Q6PF06;Q9Y5N5;Q08J23;Q96RS0;P22061;Q8WVM0;Q96FX7;Q8IXQ9;Q9NUP7;P46087;Q9UIC8;Q9H7H0;Q96DP5;Q15910;Q92979;Q96CB9;Q8TEK3;Q8TBK2;Q7Z5W3;O60869;P22087;Q9H5I1;Q9NQR1;P26358;Q14749;Q96LA8;Q8N1G2;Q92800;Q8NE18}

7898 Pathogen[ P03410] interacts with 99 human  
partners:{Q32P41;Q7L592;Q96DP5;A6NJ78;P22087;Q96RS0;Q9HBK9;Q96LA8;Q9H825;Q14353;Q96P11;Q14749;Q9HCE5;Q9H7H0;Q15047;Q8TBZ6;Q9HC36;Q63ZY6;Q9UBP6;Q9H2M3;Q8N3J2;Q86Y97;Q8IYT2;Q9BUU2;Q9H649;Q96CB9;Q8TEK3;Q9NRN9;Q8TEA1;Q5T8I9;Q8WTS6;A6NHQ2;O95050;Q7Z4G4;Q9NVM4;Q86X55;Q6PF06;Q8TBK2;O43159;Q9NR22;Q8IYL2;Q8IXQ9;Q92979;Q92800;P26358;Q6IPR3;Q9UNQ2;Q9NQV7;Q13395;P04818;Q6IN84;Q9NQR1;Q8N1G2;Q9H5I1;Q8NE18;P16455;Q9BV44;Q9H5Q4;Q96GJ1;Q1

5910;O60294;Q8N6Q8;Q9UBC3;Q9UIC8;Q08J23;Q7Z5W3;P46087;Q7Z624;Q8WVM0;Q96FX7;Q9UI43;O60869;Q7L2J0;Q8IY81;Q9BV86;O43148;Q5JXM2;O43463;O14744;Q86U44;P0C7V9;Q9BVS5;Q9Y6K1;Q9Y5N5;Q86W50;P22061;Q9NUP7;P50135;Q5HYK3;O95568;Q9Y5R4;Q9UET6;P51580;P34897;Q86TU7;Q99873;P55345;Q9NRG4;Q7L0Y3}

7899 Pathogen[ P14075] interacts with 61 human  
partners: {Q9H7H0;Q8N1G2;Q5HYK3;Q7L592;Q9H5Q4;Q9Y6K1;Q92979;Q9NR22;Q7L0Y3;Q6IN84;Q9UET6;Q86TU7;Q8NE18;Q15047;Q9NQR1;Q9H825;Q15910;Q92800;Q8IY81;Q8TBK2;Q7Z5W3;O60294;Q96CB9;P26358;Q9UI43;Q6PF06;Q32P41;Q9H5I1;Q8IXQ9;O14744;Q96LA8;Q99873;Q9Y5N5;Q86X55;Q9UNQ2;Q5T8I9;P22087;Q96RS0;P46087;Q9UBP6;P51580;Q9BVS5;P22061;Q9NUP7;Q8TEK3;Q8IYL2;Q86Y97;P0C7V9;O43159;O43463;Q14749;Q96FX7;O43148;Q8WVM0;O60869;Q08J23;Q9NRG4;A6NJ78;Q96DP5;Q8WTS6;Q9UIC8}

7900 Pathogen[ P0C206] interacts with 91 human  
partners: {P0C7V9;Q96RS0;Q08J23;A6NHQ2;O43159;Q9UI43;Q9Y6K1;Q9UBP6;Q96CB9;Q86W50;Q9BV86;Q9UIC8;P22061;Q99873;O14744;Q32P41;Q96GJ1;O60294;Q8NE18;Q9NRG4;Q86X55;Q9H7B4;O43463;Q96LA8;P26358;Q86TU7;Q8TBZ6;Q92800;P34897;Q7Z624;Q9NQX0;Q9UET6;O14686;Q15910;Q7Z5W3;Q8WVM0;Q9NRN9;Q5T8I9;Q6PF06;P51580;Q9UNQ2;Q9NQV7;Q8TEA1;Q8N6Q8;Q9H825;Q9HBM9;Q92979;Q96FX7;Q86Y97;Q9NVM4;Q7L0Y3;Q9BVS5;Q9NR48;Q7Z4G4;Q9NQR1;O96028;Q8WTS6;Q9NUP7;Q9H2M3;Q9H5I1;Q9HCE5;Q6IN84;Q9Y5N5;Q9NR22;P04818;O60869;Q8TEK3;P46087;Q9H5Q4;O60678;P22087;Q8TBK2;Q14749;Q9H7H0;Q15047;Q9UBC3;P55345;Q7L2J0;Q8IYL2;O43148;P16455;Q96DP5;P50135;Q8N1G2;Q8IXQ9;Q8IY81;Q5HYK3;Q6IPR3;Q7L592;A6NJ78;Q8IZD2}

7901 Pathogen[ P03363] interacts with 79 human  
partners: {Q32P41;Q9UNQ2;Q92979;Q96RS0;O14744;Q9H825;Q9H7H0;P46087;Q08J23;P51580;O95050;Q7Z624;P0C7V9;Q9H5I1;Q96LA8;O95568;Q8WVE0;Q9Y5R4;Q7L592;P50135;Q6PF06;Q9BV86;Q9NRN9;Q5T8I9;Q8N1G2;Q96BT7;Q15910;Q8TEK3;Q9Y6K1;Q9UET6;Q86U44;O15047;Q8TBK2;O14717;Q8IXQ9;Q8IYL2;Q9HBM9;Q9NVM4;Q9UBP6;Q9NRG4;Q8IY81;Q9NR22;Q8NE18;Q13395;Q14749;Q96FX7;P22087;Q7L0Y3;P26358;O43148;Q9UPS6;Q9HCE5;Q9Y5N5;O60869;Q9NR48;Q9UIC8;O96028;A6NJ78;Q8N3J2;Q8WVM0;O43159;O43463;Q7Z5W3;O60294;Q9BVS5;Q7Z4G4;Q9NQR1;Q6P2P2;Q8WTS6;Q92800;Q9UBC3;Q9UI43;Q15047;Q86Y97;Q86X55;O14686;Q99873;A6NHQ2;Q9H5Q4}

7902 [Cluster 719]GO:0031593+F molecular\_function [name] polyubiquitin binding [def]  
"Interacting selectively and non-covalently with a polymer of ubiquitin." [GOC]

7903 Pathogen[ Q2Q067] interacts with 11 human  
partners: {Q9H0F6;P54727;P35573;P54725;Q04323;Q86Y13;Q6UWZ7;Q8NFZ5;Q9NRR5;Q9NXR7;Q6NZ36}

7904 Pathogen[ P0C214] interacts with 13 human  
partners: {Q9NRR5;P46379;P54725;Q6NZ36;Q9H0F6;P35573;Q6UWZ7;Q04323;P54727;Q8NFZ5;Q86Y13;Q9NXR7;P55072}

7905 Pathogen[ P03346] interacts with 16 human  
partners: {Q9NS91;Q8NFZ5;Q9NRR5;P25686;P35573;Q9H0F6;P55072;Q6NZ36;Q9NXR7;P46379;P54727;Q04323;P54725;Q6UWZ7;Q6FIF0;Q86Y13}

7906 Pathogen[ Q85601] interacts with 13 human  
partners: {Q6NZ36;Q9NRR5;P46379;Q9H0F6;P35573;P54727;Q04323;Q8NFZ5;P54725;Q6UWZ7;Q9NXR7;Q86Y13;Q9NS91}

7907 Pathogen[ P14079] interacts with 11 human  
partners: {Q96KP6;Q15018;Q6UWZ7;Q6NZ36;Q9NRR5;Q9NXR7;Q8NFZ5;P35573;Q9H0F6;P54727;Q04323}

7908 Pathogen[ P03383] interacts with 9 human  
partners: {Q9H0F6;Q04323;P35573;P54725;P54727;Q9NRR5;Q8NFZ5;Q9NXR7;Q6UWZ7}

7909 Pathogen[ P03410] interacts with 13 human  
partners: {Q9NXR7;Q8NFZ5;Q9NRR5;P35573;P25686;Q15018;Q04323;P54725;Q96KP6;Q6UWZ7;Q6NZ36;Q9H0F6;P54727}

7910 Pathogen[ P14075] interacts with 9 human  
partners: {Q9NXR7;Q04323;Q8NFZ5;Q6UWZ7;P54727;P35573;Q9NRR5;P54725;Q9H0F6}

7911 Pathogen[ P0C206] interacts with 15 human  
partners: {P54725;Q04323;Q6NZ36;Q8NFZ5;Q9NS91;Q9NRR5;P54727;P55072;Q9H0F6;Q6UWZ7;Q15018;P46379;Q86Y13;Q9NXR7;P35573}

7912 Pathogen[ P03363] interacts with 14 human  
partners: {P46379;Q04323;P54727;Q86Y13;Q6UWZ7;Q6NZ36;Q9NRR5;P54725;Q6FIF0;Q9NXR7;Q9H0F6;Q8NFZ5;P35573;Q9NS91}

7913 [Cluster 720]GO:0004826+F molecular\_function [name] phenylalanine-tRNA ligase activity [def] "Catalysis of the reaction  
7914 Pathogen[ Q2Q067] interacts with 4 human partners: {O95363;Q8N1G4;Q9Y285;Q9NSD9}  
7915 Pathogen[ P0C214] interacts with 3 human partners: {O95363;Q9Y285;Q9NSD9}  
7916 Pathogen[ P03346] interacts with 2 human partners: {Q8N1G4;Q9Y285}  
7917 Pathogen[ Q85601] interacts with 3 human partners: {Q9NSD9;Q9Y285;O95363}  
7918 Pathogen[ P14079] interacts with 5 human  
partners: {Q9Y285;Q9BRP7;O95363;Q9NSD9;Q8N1G4}  
7919 Pathogen[ P03383] interacts with 3 human partners: {Q9Y285;O95363;Q9NSD9}  
7920 Pathogen[ P03410] interacts with 5 human  
partners: {Q9BRP7;Q9Y285;Q9NSD9;Q8N1G4;O95363}  
7921 Pathogen[ P14075] interacts with 3 human partners: {Q9NSD9;O95363;Q9Y285}  
7922 Pathogen[ P0C206] interacts with 5 human  
partners: {O95363;Q9BRP7;Q9Y285;Q9NSD9;Q8N1G4}  
7923 Pathogen[ P03363] interacts with 4 human partners: {Q9NSD9;Q8N1G4;O95363;Q9Y285}

7924 [Cluster 721]GO:0002055+F molecular\_function [name] adenine binding [def]  
"Interacting selectively and non-covalently with adenine, a purine base." [GOC]

7925 Pathogen[ Q2Q067] interacts with 1 human partners: {P07741}

7926 Pathogen[ P0C214] interacts with 1 human partners:{P07741}

7927 Pathogen[ P03346] interacts with 1 human partners:{P07741}

7928 Pathogen[ Q85601] interacts with 1 human partners:{P07741}

7929 Pathogen[ P14079] interacts with 1 human partners:{P07741}

7930 Pathogen[ P03383] interacts with 1 human partners:{P07741}

7931 Pathogen[ P03410] interacts with 1 human partners:{P07741}

7932 Pathogen[ P14075] interacts with 1 human partners:{P07741}

7933 Pathogen[ P0C206] interacts with 1 human partners:{P07741}

7934 Pathogen[ P03363] interacts with 1 human partners:{P07741}

7935 [Cluster 722]GO:0016624+F molecular\_function [name] oxidoreductase activity, acting on the aldehyde or oxo group of donors, disulfide as acceptor [def] "Catalysis of an oxidation-reduction (redox) reaction in which an aldehyde or ketone (oxo) group acts as a hydrogen or electron donor and reduces a disulfide." [GOC

7936 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9ULD0}

7937 Pathogen[ P0C214] interacts with 2 human partners:{P12694;Q9ULD0}

7938 Pathogen[ P03346] interacts with 1 human partners:{Q9ULD0}

7939 Pathogen[ Q85601] interacts with 1 human partners:{Q9ULD0}

7940 Pathogen[ P14079] interacts with 1 human partners:{Q9ULD0}

7941 Pathogen[ P03383] interacts with 1 human partners:{Q9ULD0}

7942 Pathogen[ P03410] interacts with 2 human partners:{Q9ULD0;P12694}

7943 Pathogen[ P14075] interacts with 1 human partners:{Q9ULD0}

7944 Pathogen[ P0C206] interacts with 1 human partners:{Q9ULD0}

7945 Pathogen[ P03363] interacts with 1 human partners:{Q9ULD0}

7946 [Cluster 723]GO:0008138+F molecular\_function [name] protein tyrosine/serine/threonine phosphatase activity [def] "Catalysis of the reactions

7947 Pathogen[ Q2Q067] interacts with 4 human partners:{Q9UNH5;Q9BV47;Q99504;Q16829}

7948 Pathogen[ P0C214] interacts with 5 human partners:{Q9BV47;Q95278;Q99504;Q16829;Q9UNH5}

7949 Pathogen[ P03346] interacts with 6 human partners:{Q9BV47;Q16667;Q16829;Q95278;Q99504;Q9UNH5}

7950 Pathogen[ Q85601] interacts with 5 human partners:{Q16829;Q99504;Q95278;Q9BV47;Q9UNH5}

7951 Pathogen[ P14079] interacts with 4 human partners:{Q16829;Q9BV47;Q99504;Q9UNH5}

7952 Pathogen[ P03383] interacts with 2 human partners:{Q99504;Q9UNH5}

7953 Pathogen[ P03410] interacts with 4 human partners:{Q9UNH5;Q16829;Q99504;Q9BV47}

7954 Pathogen[ P14075] interacts with 2 human partners:{Q99504;Q9UNH5}

7955 Pathogen[ P0C206] interacts with 5 human partners:{Q99504;Q9BV47;Q16829;Q9UNH5;Q95278}

7956 Pathogen[ P03363] interacts with 5 human partners:{Q9UNH5;Q16667;Q16829;Q99504;Q9BV47}

7957 [Cluster 724]GO:0030618+F molecular\_function [name] transforming growth factor beta receptor, pathway-specific cytoplasmic mediator activity [def] "A TGF-beta cytoplasmic mediator that is phosphorylated by a TGFbeta receptor and complexes with a common-partner mediator. The- heterocomplex translocates to the nucleus to regulate transcription." [GOC

7958 Pathogen[ Q2Q067] interacts with 5 human partners:{P84022;O15198;Q15796;Q99717;Q15797}

7959 Pathogen[ P0C214] interacts with 5 human partners:{O15198;P84022;Q15796;Q99717;Q15797}

7960 Pathogen[ P03346] interacts with 5 human partners:{Q15797;Q15796;Q99717;O15198;P84022}

7961 Pathogen[ Q85601] interacts with 5 human partners:{O15198;Q15797;Q99717;P84022;Q15796}

7962 Pathogen[ P14079] interacts with 2 human partners:{O15198;Q15797}

7963 Pathogen[ P03383] interacts with 5 human partners:{O15198;Q15797;P84022;Q99717;Q15796}

7964 Pathogen[ P03410] interacts with 5 human partners:{P84022;Q99717;O15198;Q15797;Q15796}

7965 Pathogen[ P14075] interacts with 4 human partners:{Q99717;Q15796;O15198;P84022}

7966 Pathogen[ P0C206] interacts with 5 human partners:{P84022;Q99717;Q15796;Q15797;O15198}

7967 Pathogen[ P03363] interacts with 5 human partners:{Q15797;Q15796;P84022;Q99717;O15198}

7968 [Cluster 725]GO:0030235+F molecular\_function [name] nitric-oxide synthase regulator activity [def] "Modulates the activity of nitric oxide synthase." [GOC

7969 Pathogen[ Q2Q067] interacts with 3 human partners:{P31749;P08238;P07900}

7970 Pathogen[ P0C214] interacts with 1 human partners:{P31749}

7971 Pathogen[ P03346] interacts with 3 human partners:{P07900;P31749;P08238}

7972 Pathogen[ Q85601] interacts with 3 human partners:{P31749;P08238;P07900}

7973 Pathogen[ P14079] interacts with 2 human partners:{P08238;P07900}

7974 Pathogen[ P03383] interacts with 3 human partners:{P31749;P07900;P08238}

7975 Pathogen[ P03410] interacts with 3 human partners:{P08238;P31749;P07900}

7976 Pathogen[ P14075] interacts with 3 human partners:{P08238;P07900;P31749}

7977 Pathogen[ P0C206] interacts with 3 human partners:{P31749;P08238;P07900}

7978 Pathogen[ P03363] interacts with 3 human partners:{P07900;P31749;P08238}

7979 [Cluster 726]GO:0005086+F molecular\_function [name] ARF guanyl-nucleotide exchange factor activity [def] "Stimulates the exchange of guanyl nucleotides associated with the

GTPase ARF. Under normal cellular physiological conditions, the concentration of GTP is higher than that of GDP, favoring the replacement of GDP by GTP in association with the GTPase." [GOC

7980 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9Y6D6}

7981 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y6D6}

7982 Pathogen[ P03346] interacts with 7 human partners:{Q5JU85;Q15438;Q9Y6D5;Q9Y6D6;Q7Z3U7;Q6DN90;Q9UPP2}

7983 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y6D6}

7984 Pathogen[ P14079] interacts with 5 human partners:{Q9UPP2;Q9Y6D5;Q9Y6D6;Q6DN90;Q15438}

7985 Pathogen[ P03383] interacts with 1 human partners:{Q9Y6D6}

7986 Pathogen[ P03410] interacts with 5 human partners:{Q9UPP2;Q9Y6D6;Q9Y6D5;Q15438;Q7Z3U7}

7987 Pathogen[ P14075] interacts with 1 human partners:{Q9Y6D6}

7988 Pathogen[ P0C206] interacts with 3 human partners:{Q9Y6D6;Q9Y6D5;Q9UPP2}

7989 Pathogen[ P03363] interacts with 5 human partners:{Q15438;Q9UPP2;Q5JU85;Q6DN90;Q9Y6D6}

7990 [Cluster 727]GO:0031624+F molecular\_function [name] ubiquitin conjugating enzyme binding [def] "Interacting selectively and non-covalently with a ubiquitin conjugating enzyme, any of the E2 proteins." [GOC

7991 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UBW7}

7992 Pathogen[ P0C214] interacts with 1 human partners:{Q9UBW7}

7993 Pathogen[ P03346] interacts with 2 human partners:{P58012;Q9UBW7}

7994 Pathogen[ Q85601] interacts with 1 human partners:{Q9UBW7}

7995 Pathogen[ P14079] interacts with 1 human partners:{Q9UBW7}

7996 Pathogen[ P03383] interacts with 1 human partners:{Q9UBW7}

7997 Pathogen[ P03410] interacts with 1 human partners:{Q9UBW7}

7998 Pathogen[ P14075] interacts with 1 human partners:{Q9UBW7}

7999 Pathogen[ P0C206] interacts with 1 human partners:{Q9UBW7}

8000 Pathogen[ P03363] interacts with 1 human partners:{Q9UBW7}

8001 [Cluster 728]GO:0034056+F molecular\_function [name] estrogen response element binding [def] "Interacting selectively and non-covalently with the estrogen response element (ERE), a conserved sequence found in the promoters of genes whose expression is regulated in response to estrogen." [GOC

8002 Pathogen[ Q2Q067] interacts with 2 human partners:{O15405;O15164}

8003 Pathogen[ P0C214] interacts with 2 human partners:{O15164;O15405}

8004 Pathogen[ P03346] interacts with 2 human partners:{O15164;O15405}

8005 Pathogen[ Q85601] interacts with 2 human partners:{O15164;O15405}

8006 Pathogen[ P14079] interacts with 2 human partners:{O15164;O15405}

8007 Pathogen[ P03383] interacts with 1 human partners:{O15405}

8008 Pathogen[ P03410] interacts with 1 human partners:{O15405}

8009 Pathogen[ P14075] interacts with 1 human partners:{O15405}

8010 Pathogen[ P0C206] interacts with 2 human partners:{O15164;O15405}

8011 Pathogen[ P03363] interacts with 1 human partners:{O15405}

8012 [Cluster 729]GO:0005344+F molecular\_function [name] oxygen transporter activity [def] "Enables the directed movement of oxygen into, out of or within a cell, or between cells." [GOC

8013 Pathogen[ Q2Q067] interacts with 2 human partners:{P68871;P69905}

8014 Pathogen[ P0C214] interacts with 7 human partners:{P02042;P69905;Q9NPG2;P68871;P69892;P02100;P69891}

8015 Pathogen[ P03346] interacts with 4 human partners:{P02100;Q9NPG2;P69905;P68871}

8016 Pathogen[ Q85601] interacts with 7 human partners:{P69905;P02042;P02100;P69892;P68871;Q9NPG2;P69891}

8017 Pathogen[ P14079] interacts with 12 human partners:{Q8WWM9;P02042;Q9NPG2;P69891;P02100;P09105;P69905;P02008;P68871;Q6B0K9;P02144;P69892}

8018 Pathogen[ P03383] interacts with 2 human partners:{P69905;P68871}

8019 Pathogen[ P03410] interacts with 12 human partners:{Q6B0K9;P02008;P02144;P02100;P09105;Q8WWM9;P68871;P02042;Q9NPG2;P69892;P69905;P69891}

8020 Pathogen[ P14075] interacts with 2 human partners:{P68871;P69905}

8021 Pathogen[ P0C206] interacts with 11 human partners:{P68871;Q6B0K9;P02100;P69892;P02008;P69891;Q9NPG2;P69905;P09105;P02042;Q8WWM9}

8022 Pathogen[ P03363] interacts with 2 human partners:{P69905;P68871}

8023 [Cluster 730]GO:0043916+F molecular\_function [name] DNA-7-methylguanine glycosylase activity [def] "Catalysis of the reaction

8024 Pathogen[ Q2Q067] interacts with 1 human partners:{P29372}

8025 Pathogen[ P0C214] interacts with 1 human partners:{P29372}

8026 Pathogen[ P03346] interacts with 1 human partners:{P29372}

8027 Pathogen[ Q85601] interacts with 1 human partners:{P29372}

8028 Pathogen[ P14079] interacts with 1 human partners:{P29372}

8029 Pathogen[ P03383] interacts with 1 human partners:{P29372}

8030 Pathogen[ P03410] interacts with 1 human partners:{P29372}

8031 Pathogen[ P14075] interacts with 1 human partners:{P29372}

8032 Pathogen[ P0C206] interacts with 1 human partners:{P29372}

8033 Pathogen[ P03363] interacts with 1 human partners:{P29372}  
8034 [Cluster 731]GO:0016888+F molecular\_function [name] endodeoxyribonuclease activity,  
producing 5'-phosphomonoesters [def] "Catalysis of the hydrolysis of ester linkages  
within deoxyribonucleic acids by creating internal breaks to yield 5'-phosphomonoesters."  
[GOC  
8035 Pathogen[ Q2Q067] interacts with 1 human partners:{Q93075}  
8036 Pathogen[ P0C214] interacts with 3 human partners:{Q6P1N9;Q17R31;Q93075}  
8037 Pathogen[ P03346] interacts with 4 human partners:{Q13609;Q17R31;P24855;Q93075}  
8038 Pathogen[ Q85601] interacts with 2 human partners:{Q17R31;Q93075}  
8039 Pathogen[ P14079] interacts with 7 human  
partners:{Q6P1N9;Q13609;P49184;Q8N8Q3;P24855;Q93075;Q17R31}  
8040 Pathogen[ P03383] interacts with 1 human partners:{Q93075}  
8041 Pathogen[ P03410] interacts with 6 human  
partners:{Q17R31;P49184;Q13609;Q6P1N9;Q93075;P24855}  
8042 Pathogen[ P14075] interacts with 1 human partners:{Q93075}  
8043 Pathogen[ P0C206] interacts with 5 human  
partners:{Q17R31;P24855;Q93075;Q6P1N9;Q13609}  
8044 Pathogen[ P03363] interacts with 3 human partners:{Q93075;Q13609;P24855}  
8045 [Cluster 732]GO:0033613+F molecular\_function [name] activating transcription factor  
binding [def] "Interacting selectively and non-covalently with an activating  
transcription factor, any protein whose activity is required to initiate or upregulate  
transcription." [GOC  
8046 Pathogen[ Q2Q067] interacts with 10 human  
partners:{P56524;Q16594;Q04206;Q13547;Q14814;Q8WUI4;Q15796;O75475;Q02078;P33076}  
8047 Pathogen[ P0C214] interacts with 10 human  
partners:{Q13547;P33076;P56524;Q04206;Q16594;Q02078;Q14814;Q15796;O75475;Q8WUI4}  
8048 Pathogen[ P03346] interacts with 10 human  
partners:{Q02078;Q14814;Q15796;O75475;P56524;Q04206;P33076;Q13547;Q8WUI4;Q16594}  
8049 Pathogen[ Q85601] interacts with 10 human  
partners:{Q02078;P33076;Q14814;Q16594;Q04206;P56524;Q13547;Q8WUI4;O75475;Q15796}  
8050 Pathogen[ P14079] interacts with 8 human  
partners:{P33076;Q02078;Q06413;Q16594;Q8WUI4;O75475;Q14814;P56524}  
8051 Pathogen[ P03383] interacts with 10 human  
partners:{P33076;Q14814;Q16594;O75475;Q13547;Q15796;P56524;Q04206;Q8WUI4;Q02078}  
8052 Pathogen[ P03410] interacts with 10 human  
partners:{Q04206;Q14814;Q8WUI4;P56524;Q16594;Q13547;Q02078;O75475;Q15796;P33076}  
8053 Pathogen[ P14075] interacts with 10 human  
partners:{Q04206;O75475;P56524;P33076;Q15796;Q13547;Q16594;Q02078;Q8WUI4;Q14814}  
8054 Pathogen[ P0C206] interacts with 10 human  
partners:{Q02078;Q13547;Q15796;P33076;O75475;Q8WUI4;Q04206;Q14814;P56524;Q16594}  
8055 Pathogen[ P03363] interacts with 9 human  
partners:{Q04206;O75475;Q14814;Q15796;Q13547;P33076;Q8WUI4;Q16594;Q02078}  
8056 [Cluster 733]GO:0070411+F molecular\_function [name] I-SMAD binding [def]  
"Interacting selectively and non-covalently with an inhibitory SMAD signaling protein."  
[GOC  
8057 Pathogen[ Q2Q067] interacts with 5 human  
partners:{Q13485;O15105;O43541;Q15796;Q15797}  
8058 Pathogen[ P0C214] interacts with 6 human  
partners:{Q9HCE7;Q13485;O15105;Q15796;O43541;Q15797}  
8059 Pathogen[ P03346] interacts with 5 human  
partners:{Q15797;Q15796;O15105;O43541;Q13485}  
8060 Pathogen[ Q85601] interacts with 5 human  
partners:{O43541;Q15797;O15105;Q13485;Q15796}  
8061 Pathogen[ P14079] interacts with 4 human partners:{Q15797;O43294;O43541;O15105}  
8062 Pathogen[ P03383] interacts with 5 human  
partners:{Q13485;Q15797;O15105;O43541;Q15796}  
8063 Pathogen[ P03410] interacts with 6 human  
partners:{O43294;Q15797;Q13485;O43541;O15105;Q15796}  
8064 Pathogen[ P14075] interacts with 4 human partners:{O43541;Q15796;Q13485;O15105}  
8065 Pathogen[ P0C206] interacts with 6 human  
partners:{O43541;Q15796;O15105;O43294;Q13485;Q15797}  
8066 Pathogen[ P03363] interacts with 5 human  
partners:{O15105;Q15797;O43541;Q15796;Q13485}  
8067 [Cluster 734]GO:0070530+F molecular\_function [name] K63-linked polyubiquitin binding  
[def] "Interacting selectively and non-covalently and non-covalently with a polymer of  
ubiquitin formed by linkages between lysine residues at position 63 of the ubiquitin  
monomers." [GOC  
8068 Pathogen[ Q2Q067] interacts with 5 human  
partners:{Q9NYJ8;Q9H040;Q96RL1;Q13501;Q6NZ36}  
8069 Pathogen[ P0C214] interacts with 6 human  
partners:{Q9H040;Q6NZ36;Q13501;Q96RL1;Q8IYW5;Q9NYJ8}  
8070 Pathogen[ P03346] interacts with 6 human  
partners:{Q96RL1;Q6NZ36;Q9NYJ8;Q9H040;Q8IYW5;Q13501}  
8071 Pathogen[ Q85601] interacts with 6 human  
partners:{Q96RL1;Q9NYJ8;Q9H040;Q6NZ36;Q8IYW5;Q13501}  
8072 Pathogen[ P14079] interacts with 4 human partners:{Q9H040;Q6NZ36;Q96RL1;Q13501}



8073 Pathogen[ P03383] interacts with 4 human partners:{Q96RL1;Q9H040;Q13501;Q9NYJ8}

8074 Pathogen[ P03410] interacts with 5 human partners:{Q96RL1;Q9H040;Q13501;Q9NYJ8;Q6NZ36}

8075 Pathogen[ P14075] interacts with 4 human partners:{Q9H040;Q96RL1;Q13501;Q9NYJ8}

8076 Pathogen[ P0C206] interacts with 6 human partners:{Q13501;Q8IYW5;Q6NZ36;Q9NYJ8;Q96RL1;Q9H040}

8077 Pathogen[ P03363] interacts with 5 human partners:{Q96RL1;Q9NYJ8;Q8IYW5;Q6NZ36;Q9H040}

8078 [Cluster 735]GO:0016876+F molecular\_function [name] ligase activity, forming aminoacyl-tRNA and related compounds [def] "Catalysis of the joining of an amino acid and a nucleic acid (usually tRNA) or poly(ribitol phosphate), with the concomitant hydrolysis of the diphosphate bond in ATP or a similar triphosphate. The reaction forms an aminoacyl-tRNA or a related compound." [EC

8079 Pathogen[ Q2Q067] interacts with 2 human partners:{P07814;Q9BW92}

8080 Pathogen[ P0C214] interacts with 9 human partners:{P07814;Q5JTZ9;Q9BTE6;Q5JPH6;P26639;A2RTX5;P49588;P47897;Q9BW92}

8081 Pathogen[ P03346] interacts with 1 human partners:{P07814}

8082 Pathogen[ Q85601] interacts with 5 human partners:{P26639;P07814;Q9BW92;A2RTX5;P47897}

8083 Pathogen[ P14079] interacts with 8 human partners:{P26639;Q9BTE6;Q9BW92;P47897;A2RTX5;Q5JPH6;P49588;P07814}

8084 Pathogen[ P03383] interacts with 5 human partners:{Q5JPH6;Q9BTE6;A2RTX5;P07814;Q9BW92}

8085 Pathogen[ P03410] interacts with 8 human partners:{Q9BTE6;Q9BW92;P49588;P47897;P26639;Q5JPH6;P07814;A2RTX5}

8086 Pathogen[ P14075] interacts with 6 human partners:{Q9BTE6;A2RTX5;Q9BW92;P26639;Q5JPH6;P07814}

8087 Pathogen[ P0C206] interacts with 7 human partners:{P07814;A2RTX5;Q5JPH6;Q9BTE6;Q9BW92;P26639;P47897}

8088 Pathogen[ P03363] interacts with 6 human partners:{A2RTX5;P47897;Q5JPH6;Q9BTE6;Q9BW92;P07814}

8089 [Cluster 736]GO:0070612+F molecular\_function [name] histone methyltransferase activity (H2A-R3 specific) [def] "Catalysis of the reaction

8090 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96LA8}

8091 Pathogen[ P0C214] interacts with 1 human partners:{Q96LA8}

8092 Pathogen[ P03346] interacts with 1 human partners:{Q96LA8}

8093 Pathogen[ Q85601] interacts with 1 human partners:{Q96LA8}

8094 Pathogen[ P14079] interacts with 1 human partners:{Q96LA8}

8095 Pathogen[ P03383] interacts with 1 human partners:{Q96LA8}

8096 Pathogen[ P03410] interacts with 1 human partners:{Q96LA8}

8097 Pathogen[ P14075] interacts with 1 human partners:{Q96LA8}

8098 Pathogen[ P0C206] interacts with 1 human partners:{Q96LA8}

8099 Pathogen[ P03363] interacts with 1 human partners:{Q96LA8}

8100 [Cluster 737]GO:0003684+F molecular\_function [name] damaged DNA binding [def] "Interacting selectively and non-covalently with damaged DNA." [GOC

8101 Pathogen[ Q2Q067] interacts with 28 human partners:{Q9Y253;Q12888;Q92889;Q13889;Q99708;P18887;Q7Z2E3;Q969S2;Q9UNA4;O15350;P54727;Q9UBZ9;Q16531;Q06609;P54725;P27695;P06746;P29372;O60934;O15527;P39748;P23396;Q13569;Q01831;Q92466;O15287;O60671;P23025}

8102 Pathogen[ P0C214] interacts with 27 human partners:{O15287;P27695;Q06609;Q92889;P06746;P23396;P23025;O15350;Q99708;Q9UBZ9;P54725;P20585;P18887;Q9UNA4;Q7Z2E3;Q49AN0;P54727;O60671;Q01831;P39748;Q12888;P29372;O15527;Q13569;Q92466;Q16531;Q9Y253}

8103 Pathogen[ P03346] interacts with 33 human partners:{Q12888;Q9NS91;Q9Y253;Q06609;Q9UNA4;P07992;Q9UBZ9;Q99708;Q49AN0;Q16531;O15350;Q6ZNB5;Q13889;Q969S2;O15287;Q01831;P20585;P29372;P54727;O60934;P18887;P23396;Q92889;Q13569;P54725;Q7Z2E3;P23025;O60671;P27695;P39748;Q92466;O15527;P06746}

8104 Pathogen[ Q85601] interacts with 33 human partners:{O15527;P23025;Q01831;P18887;Q969S2;Q16531;P23396;Q99708;Q49AN0;Q96FI4;Q12888;Q92889;P54727;P54725;P20585;Q9UBZ9;Q9UBT6;Q13569;O60671;O15287;Q7Z2E3;P06746;O15350;P39748;Q92466;P19447;Q06609;Q9Y253;Q9UNA4;P27695;Q9NS91;P29372;O60934}

8105 Pathogen[ P14079] interacts with 36 human partners:{O60671;O43196;P20585;Q8TAT5;P23396;Q9UNA4;Q49AN0;Q16531;Q6ZNB5;P29372;Q9UBZ9;Q13889;O60934;O15527;P23025;O15350;Q99708;P18887;Q969S2;Q96FI4;Q92889;P27695;P06746;Q9Y253;Q92466;Q01831;P52701;Q13569;Q12888;Q06609;P54727;Q7Z2E3;Q9UBT6;P07992;P19447;P39748}

8106 Pathogen[ P03383] interacts with 22 human partners:{Q7Z2E3;Q9Y253;Q12888;Q06609;O60671;P06746;O15527;Q01831;P29372;O15287;P23025;P54725;O15350;P54727;Q9UBZ9;Q13569;Q99708;P18887;P27695;Q16531;Q92466;P23396}

8107 Pathogen[ P03410] interacts with 38 human partners:{P23025;P18887;Q96FI4;Q99708;P20585;Q13889;P07992;Q9UBT6;Q9UNA4;P23396;P06746;Q92889;P39748;P54725;Q8TAT5;Q92466;Q01831;Q7Z2E3;Q9UBZ9;P52701;O15287;O15527;Q9Y253;Q13569;P19447;O60671;Q49AN0;Q16531;Q12888;O43196;Q6ZNB5;P27695;O15350;Q969S2;P29372;O60934;Q06609;P54727}

8108 Pathogen[ P14075] interacts with 23 human partners:{Q7Z2E3;Q9UBZ9;P23025;P27695;Q01831;O15527;P06746;O60671;Q9Y253;Q13889;O15350}

0;P54727;P23396;Q16531;O15287;P54725;Q12888;Q13569;Q92466;P29372;Q99708;Q06609;P18887  
}  
8109 Pathogen[ P0C206] interacts with 38 human  
partners:{P27695;Q9Y253;Q6ZNB5;P54725;Q99708;Q9UBT6;O15527;Q9UNA4;P52701;O60934;P0674  
6;Q9NS91;Q16531;P07992;P19447;Q13569;Q12888;O15287;P23396;Q92889;Q8TAT5;Q01831;P54727  
;Q96FI4;Q9UBZ9;Q969S2;Q13889;O60671;O15350;Q06609;P20585;Q92466;P39748;Q49AN0;Q7Z2E3;  
P29372;P23025;P18887}  
8110 Pathogen[ P03363] interacts with 28 human  
partners:{P18887;P23396;O15287;O15527;P54727;Q01831;Q16531;Q9Y253;O60671;Q96FI4;Q9288  
9;P23025;P29372;Q99708;P20585;Q49AN0;Q7Z2E3;P06746;Q6ZNB5;P54725;Q92466;Q13569;Q06609  
;Q9UNA4;Q9UBZ9;Q9NS91;Q969S2;Q12888}  
8111 [Cluster 738]GO:0016785+F molecular\_function [name] transferase activity, transferring  
selenium-containing groups [def] "Catalysis of the transfer of a selenium-containing  
group from one compound (donor) to another (acceptor)." [GOC  
8112 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9HD40}  
8113 Pathogen[ P0C214] interacts with 1 human partners:{Q9HD40}  
8114 Pathogen[ P03346] interacts with 1 human partners:{Q9HD40}  
8115 Pathogen[ Q85601] interacts with 1 human partners:{Q9HD40}  
8116 Pathogen[ P14079] interacts with 1 human partners:{Q9HD40}  
8117 Pathogen[ P03383] interacts with 1 human partners:{Q9HD40}  
8118 Pathogen[ P03410] interacts with 1 human partners:{Q9HD40}  
8119 Pathogen[ P14075] interacts with 1 human partners:{Q9HD40}  
8120 Pathogen[ P0C206] interacts with 1 human partners:{Q9HD40}  
8121 Pathogen[ P03363] interacts with 1 human partners:{Q9HD40}  
8122 [Cluster 739]GO:0070698+F molecular\_function [name] type I activin receptor binding  
[def] "Interacting selectively and non-covalently with a type I activin receptor." [GOC  
8123 Pathogen[ Q2Q067] interacts with 1 human partners:{O43541}  
8124 Pathogen[ P0C214] interacts with 1 human partners:{O43541}  
8125 Pathogen[ P03346] interacts with 1 human partners:{O43541}  
8126 Pathogen[ Q85601] interacts with 1 human partners:{O43541}  
8127 Pathogen[ P14079] interacts with 1 human partners:{O43541}  
8128 Pathogen[ P03383] interacts with 1 human partners:{O43541}  
8129 Pathogen[ P03410] interacts with 1 human partners:{O43541}  
8130 Pathogen[ P14075] interacts with 1 human partners:{O43541}  
8131 Pathogen[ P0C206] interacts with 1 human partners:{O43541}  
8132 Pathogen[ P03363] interacts with 1 human partners:{O43541}  
8133 [Cluster 740]GO:0008266+F molecular\_function [name] poly(U) RNA binding [def]  
"Interacting selectively and non-covalently with a sequence of uracil residues in an RNA  
molecule." [GOC  
8134 Pathogen[ Q2Q067] interacts with 6 human  
partners:{Q8TCS8;Q5VWX1;Q86TB9;P31943;P54253;Q13310}  
8135 Pathogen[ P0C214] interacts with 6 human  
partners:{Q13310;P54253;Q8TCS8;Q86TB9;P31943;Q5VWX1}  
8136 Pathogen[ P03346] interacts with 6 human  
partners:{P31943;Q86TB9;Q8TCS8;Q5VWX1;Q13310;P54253}  
8137 Pathogen[ Q85601] interacts with 6 human  
partners:{Q13310;Q5VWX1;Q86TB9;Q8TCS8;P54253;P31943}  
8138 Pathogen[ P14079] interacts with 6 human  
partners:{Q86TB9;Q13310;P54253;Q5VWX1;P31943;Q8TCS8}  
8139 Pathogen[ P03383] interacts with 6 human  
partners:{Q8TCS8;P31943;Q5VWX1;Q86TB9;P54253;Q13310}  
8140 Pathogen[ P03410] interacts with 6 human  
partners:{Q8TCS8;Q5VWX1;P31943;Q86TB9;P54253;Q13310}  
8141 Pathogen[ P14075] interacts with 6 human  
partners:{Q5VWX1;P54253;P31943;Q13310;Q86TB9;Q8TCS8}  
8142 Pathogen[ P0C206] interacts with 6 human  
partners:{Q86TB9;Q8TCS8;Q13310;Q5VWX1;P31943;P54253}  
8143 Pathogen[ P03363] interacts with 6 human  
partners:{O43347;P31943;Q5VWX1;Q13310;P54253;Q86TB9}  
8144 [Cluster 741]GO:0001085+F molecular\_function [name] RNA polymerase II transcription  
factor binding [def] "Interacting selectively and non-covalently with an RNA polymerase  
II transcription factor, any protein required to initiate or regulate transcription by  
RNA polymerase II." [GOC  
8145 Pathogen[ Q2Q067] interacts with 14 human  
partners:{Q5VTD9;O94776;P15976;Q96T58;Q86UE4;O95644;Q08211;Q15327;Q8IX07;P47928;Q9279  
3;Q02078;P17947;Q14693}  
8146 Pathogen[ P0C214] interacts with 14 human  
partners:{Q15327;Q96T58;Q92793;P17947;O00308;Q86UE4;Q5VTD9;Q02078;P47928;O94776;Q8IX0  
7;Q08211;O95644;Q14693}  
8147 Pathogen[ P03346] interacts with 17 human  
partners:{Q02078;Q86UE4;Q8IYA7;Q15327;O94776;Q08211;O95644;P17542;P15976;Q8IX07;Q5VTD  
9;Q96T58;P17947;Q92793;P47928;O00308;Q14693}  
8148 Pathogen[ Q85601] interacts with 14 human  
partners:{Q02078;P15976;O94776;O95644;Q08211;Q15327;Q8IX07;Q86UE4;Q96T58;Q5VTD9;P1794  
7;Q92793;P47928;Q14693}  
8149 Pathogen[ P14079] interacts with 13 human

partners:{Q02078;Q14693;Q92793;O95644;P15976;Q08211;Q5VTD9;Q8IX07;Q15327;Q86UE4;O94776;P47928;Q96T58}

8150 Pathogen[ P03383] interacts with 10 human  
partners:{Q86UE4;O94776;O95644;Q96T58;Q15327;P47928;P17947;Q92793;Q02078;Q14693}

8151 Pathogen[ P03410] interacts with 14 human  
partners:{P17947;Q15327;Q96T58;Q14693;O95644;Q92793;Q8IX07;Q86UE4;P47928;O94776;Q02078;Q5VTD9;Q08211;P15976}

8152 Pathogen[ P14075] interacts with 10 human  
partners:{Q86UE4;Q96T58;Q15327;O94776;P47928;P17947;Q02078;Q92793;O95644;Q14693}

8153 Pathogen[ P0C206] interacts with 15 human  
partners:{Q02078;O00308;Q08211;Q15327;O94776;P15976;Q92793;P17947;Q96T58;Q8IX07;Q86UE4;Q5VTD9;O95644;P47928;Q14693}

8154 Pathogen[ P03363] interacts with 13 human  
partners:{Q5VTD9;Q96T58;P17947;Q86UE4;Q15327;P47928;Q92793;O00308;O95644;Q8IYA7;Q08211;O94776;Q02078}

8155 [Cluster 742]GO:0004867+F molecular\_function [name] serine-type endopeptidase inhibitor activity [def] "Stops, prevents or reduces the activity of serine-type endopeptidases, enzymes that catalyze the hydrolysis of nonterminal peptide bonds in a polypeptide chain\_ a serine residue (and a histidine residue) are at the active center of the enzyme." [GOC

8156 Pathogen[ Q2Q067] interacts with 6 human  
partners:{P01009;P08697;P50453;P48595;P50452;P35237}

8157 Pathogen[ P0C214] interacts with 26 human  
partners:{P08697;P35237;Q9UK55;P01011;P29622;P36952;P48594;Q86WD7;P05121;P29508;O75830;O75635;A8MV23;P05543;P05546;P07093;P01008;P30740;Q96P63;P50453;P05120;Q99574;Q9UIV8;Q96P15;P50452;P48595}

8158 Pathogen[ P03346] interacts with 8 human  
partners:{P50452;P35237;O75635;P50453;Q96P63;P01009;Q96P15;P48595}

8159 Pathogen[ Q85601] interacts with 17 human  
partners:{P50452;P36952;Q96P15;P01011;P35237;P08697;P01009;P05121;P50453;P05120;P01008;P48595;P30740;O75635;P07093;P29508;Q96P63}

8160 Pathogen[ P14079] interacts with 5 human  
partners:{P35237;P50452;P03973;P50453;P48595}

8161 Pathogen[ P03383] interacts with 11 human  
partners:{P36952;P08697;P30740;P01009;P01008;P48595;P50453;Q96P63;P35237;P50452;O75635}

8162 Pathogen[ P03410] interacts with 14 human  
partners:{P05121;Q9H1F0;Q96P63;P50452;Q96P15;P08697;P36952;P50453;P01009;P35237;O75635;P30740;P48595;P01011}

8163 Pathogen[ P14075] interacts with 6 human  
partners:{P01009;P48595;P08697;P50452;P50453;P35237}

8164 Pathogen[ P0C206] interacts with 14 human  
partners:{P50452;P01008;P35237;P01009;P50453;P36952;Q96P15;O75635;P05121;P48595;Q96P63;P01011;P30740;P08697}

8165 Pathogen[ P03363] interacts with 8 human  
partners:{P35237;P50452;P50453;P36952;Q96P63;O75635;Q96P15;P48595}

8166 [Cluster 743]GO:0016829+F molecular\_function [name] lyase activity [def] "Catalysis of the cleavage of C-C, C-O, C-N and other bonds by other means than by hydrolysis or oxidation, or conversely adding a group to a double bond. They differ from other enzymes in that two substrates are involved in one reaction direction, but only one in the other direction. When acting on the single substrate, a molecule is eliminated and this generates either a new double bond or a new ring." [EC

8167 Pathogen[ Q2Q067] interacts with 24 human  
partners:{P10746;P13929;P61457;P05062;P30084;Q969S2;P07954;Q96GX9;P27695;P06746;Q9UG56;P09972;Q8IW19;O15527;P12956;P78549;P21399;Q03393;P06132;P06733;P11172;P32929;Q96JJ3;Q9H0N5}

8168 Pathogen[ P0C214] interacts with 37 human  
partners:{Q8IW19;P06132;P30084;P27695;P35558;P06746;P07954;P61457;P11172;Q9Y315;Q96GX9;P40939;Q9BXD5;P05062;P32929;P53701;Q99798;P10746;Q9H0N5;P13929;Q03393;P09104;Q86XE5;P06733;Q9UG56;P09972;Q16822;P78549;P04424;P35520;O15527;P22830;P21399;Q96JJ3;P12956;P30566;Q16773}

8169 Pathogen[ P03346] interacts with 26 human  
partners:{P09972;P12956;Q8IW19;P13929;P10746;Q96JJ3;Q03393;P06733;P20132;Q969S2;P32929;P06132;P78549;Q9UG56;P05062;P27695;P61457;P11172;P07954;P21399;Q9H0N5;O15527;P06746;Q9UBZ4;Q96GX9;P30084}

8170 Pathogen[ Q85601] interacts with 27 human  
partners:{Q9UBZ4;O15527;Q9UG56;Q9H0N5;Q969S2;P21399;P10746;P11172;Q9BXD5;P06733;Q9UGP5;P05062;Q96JJ3;Q96GX9;Q96FI4;P07954;P13929;P09972;P06132;Q8IW19;P06746;P78549;P27695;P30084;P61457;P12956;P32929}

8171 Pathogen[ P14079] interacts with 47 human  
partners:{P17707;Q8TAT5;P42357;Q16873;P07954;P22234;P20132;Q9UGP5;Q9UBZ4;P21399;P61457;Q9Y315;Q96N76;P09972;P11172;P30084;P10746;O95954;Q96JJ3;O15527;P78549;Q8TDX5;P06733;O95822;Q8N0X4;Q9H0N5;Q9UG56;P12956;P06132;Q04760;Q96GX9;Q969S2;Q96FI4;P27695;P32929;P22830;Q9BXD5;P13929;P06746;P53602;P00915;Q96CD2;Q03393;P04424;Q86XE5;P53701;Q8IW19}

8172 Pathogen[ P03383] interacts with 13 human  
partners:{P06746;O15527;Q8IW19;P09972;P61457;Q96GX9;Q16822;P06132;Q9H0N5;P27695;P1117

2;P06733;P12956}  
8173 Pathogen[ P03410] interacts with 48 human  
partners:{P53602;P30084;Q96FI4;Q16822;Q9Y315;P32929;O95954;P04424;P06733;Q9BXD5;P1117  
2;P06746;P20132;P06132;P05062;Q8TAT5;P78549;P22234;P10746;Q9UGP5;P12956;Q9UBZ4;Q8TDX5  
;P09972;P21399;Q96N76;O15527;P07954;Q16873;P22830;P53701;Q96CD2;P30566;Q8IW19;Q8N0X4;  
Q86XE5;Q96GX9;P13929;P27695;Q969S2;Q9H0N5;P17707;Q04760;Q03393;Q96JJ3;Q9UG56;O95822;P  
61457}  
8174 Pathogen[ P14075] interacts with 17 human  
partners:{P06733;Q96GX9;P12956;P06132;P11172;Q86XE5;P27695;Q16822;O15527;P06746;Q9BXD  
5;Q9Y315;Q9H0N5;Q8IW19;P61457;P09972;Q9UG56}  
8175 Pathogen[ P0C206] interacts with 39 human  
partners:{P27695;P06733;P05062;P10746;P53701;O15527;Q9Y315;P06746;Q16822;P00915;Q9UBZ  
4;Q04760;Q9UGP5;O95954;P20132;P11172;P30084;Q86XE5;P32929;Q8TAT5;Q9UG56;Q96JJ3;P22830  
;Q96FI4;P61457;Q96GX9;Q969S2;P09972;Q03393;Q8IW19;Q9H0N5;Q99798;P07954;Q9BXD5;P12956;  
P13929;P06132;P21399;P78549}  
8176 Pathogen[ P03363] interacts with 16 human  
partners:{P12956;Q8IW19;O15527;P06733;Q9H0N5;P09972;Q96FI4;P06132;P11172;P61457;P0674  
6;Q96JJ3;Q96GX9;Q969S2;Q9Y315;Q9BXD5}  
8177 [Cluster 744]GO:0005487+F molecular\_function [name] nucleocytoplasmic transporter  
activity [def] "Enables the directed movement of substances between the nucleus and  
the cytoplasm of a cell." [GOC  
8178 Pathogen[ Q2Q067] interacts with 10 human  
partners:{Q12769;Q9UBU9;Q7Z3B4;Q9BZI7;Q9BVL2;P37198;P57740;Q8WUM0;P35658;Q9H1J1}  
8179 Pathogen[ P0C214] interacts with 10 human  
partners:{Q9BZI7;P57740;P37198;P35658;Q9BVL2;Q7Z3B4;Q8WUM0;Q9UBU9;Q12769;Q9H1J1}  
8180 Pathogen[ P03346] interacts with 10 human  
partners:{Q9BZI7;Q8WUM0;Q12769;P57740;Q9BVL2;P37198;P35658;Q9UBU9;Q7Z3B4;Q9H1J1}  
8181 Pathogen[ Q85601] interacts with 9 human  
partners:{Q9BZI7;Q12769;Q9UBU9;P57740;Q8WUM0;P35658;Q9BVL2;Q7Z3B4;Q9H1J1}  
8182 Pathogen[ P14079] interacts with 10 human  
partners:{P57740;P35658;Q9H1J1;Q9UBU9;Q9BVL2;Q8WUM0;Q9BZI7;P37198;Q7Z3B4;Q12769}  
8183 Pathogen[ P03383] interacts with 10 human  
partners:{Q9BVL2;Q8WUM0;Q9UBU9;P57740;Q12769;P35658;P37198;Q7Z3B4;Q9BZI7;Q9H1J1}  
8184 Pathogen[ P03410] interacts with 9 human  
partners:{Q7Z3B4;Q9H1J1;Q9BZI7;P35658;Q9UBU9;Q8WUM0;P57740;Q12769;Q9BVL2}  
8185 Pathogen[ P14075] interacts with 10 human  
partners:{P57740;P35658;P37198;Q12769;Q9UBU9;Q9BVL2;Q8WUM0;Q7Z3B4;Q9BZI7;Q9H1J1}  
8186 Pathogen[ P0C206] interacts with 9 human  
partners:{Q9BZI7;Q7Z3B4;P57740;Q8WUM0;Q9UBU9;Q12769;P35658;Q9BVL2;Q9H1J1}  
8187 Pathogen[ P03363] interacts with 10 human  
partners:{Q7Z3B4;Q12769;Q9UBU9;Q8WUM0;Q9BVL2;P35658;P57740;Q9BZI7;P37198;Q9H1J1}  
8188 [Cluster 745]GO:0043734+F molecular\_function [name] DNA-N1-methyladenine dioxygenase  
activity [def] "Catalysis of the oxidative demethylation of N1-methyladenine and  
N3-methylcytosine in DNA and RNA, with concomitant decarboxylation of 2-oxoglutarate and  
released oxidized methyl group on N1-methyladenine and N3-methylcytosine as  
formaldehyde." [IMG  
8189 Pathogen[ Q2Q067] interacts with 2 human partners:{Q6NS38;Q96Q83}  
8190 Pathogen[ P0C214] interacts with 2 human partners:{Q6NS38;Q96Q83}  
8191 Pathogen[ P03346] interacts with 1 human partners:{Q96Q83}  
8192 Pathogen[ Q85601] interacts with 2 human partners:{Q6NS38;Q96Q83}  
8193 Pathogen[ P14079] interacts with 3 human partners:{Q9C0B1;Q6NS38;Q96Q83}  
8194 Pathogen[ P03383] interacts with 1 human partners:{Q96Q83}  
8195 Pathogen[ P03410] interacts with 3 human partners:{Q96Q83;Q6NS38;Q9C0B1}  
8196 Pathogen[ P14075] interacts with 1 human partners:{Q96Q83}  
8197 Pathogen[ P0C206] interacts with 2 human partners:{Q96Q83;Q6NS38}  
8198 Pathogen[ P03363] interacts with 1 human partners:{Q96Q83}  
8199 [Cluster 746]GO:0003692+F molecular\_function [name] left-handed Z-DNA binding [def]  
"Interacting selectively and non-covalently with DNA in the Z form, i.e. a left-handed  
helix in which the phosphate backbone zigzags." [ISBN  
8200 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9H171}  
8201 Pathogen[ P0C214] interacts with 1 human partners:{Q9H171}  
8202 Pathogen[ P03346] interacts with 1 human partners:{Q9H171}  
8203 Pathogen[ Q85601] interacts with 1 human partners:{Q9H171}  
8204 Pathogen[ P14079] interacts with 1 human partners:{Q9H171}  
8205 Pathogen[ P03383] interacts with 1 human partners:{Q9H171}  
8206 Pathogen[ P03410] interacts with 1 human partners:{Q9H171}  
8207 Pathogen[ P14075] interacts with 1 human partners:{Q9H171}  
8208 Pathogen[ P0C206] interacts with 1 human partners:{Q9H171}  
8209 Pathogen[ P03363] interacts with 1 human partners:{Q9H171}  
8210 [Cluster 747]GO:0003691+F molecular\_function [name] double-stranded telomeric DNA  
binding [def] "Interacting selectively and non-covalently with double-stranded  
telomere-associated DNA." [GOC  
8211 Pathogen[ Q2Q067] interacts with 5 human  
partners:{Q15554;P54274;Q00577;P12956;P13010}  
8212 Pathogen[ P0C214] interacts with 5 human  
partners:{P13010;Q15554;Q00577;P12956;P54274}

8213 Pathogen[ P03346] interacts with 5 human partners:{P12956;Q15554;Q00577;P54274;P13010}

8214 Pathogen[ Q85601] interacts with 5 human partners:{Q15554;Q00577;P54274;P13010;P12956}

8215 Pathogen[ P14079] interacts with 5 human partners:{P54274;P13010;P12956;Q00577;Q15554}

8216 Pathogen[ P03383] interacts with 5 human partners:{P13010;Q15554;Q00577;P54274;P12956}

8217 Pathogen[ P03410] interacts with 5 human partners:{Q15554;P54274;Q00577;P12956;P13010}

8218 Pathogen[ P14075] interacts with 5 human partners:{P12956;Q15554;P54274;Q00577;P13010}

8219 Pathogen[ P0C206] interacts with 5 human partners:{P13010;Q15554;P54274;P12956;Q00577}

8220 Pathogen[ P03363] interacts with 5 human partners:{P12956;Q15554;P13010;P54274;Q00577}

8221 [Cluster 748]GO:0000287+F molecular\_function [name] magnesium ion binding [def] "Interacting selectively and non-covalently with magnesium (Mg) ions." [GOC

8222 Pathogen[ Q2Q067] interacts with 26 human partners:{O95363;Q9Y2M0;Q9H2U2;Q9H008;P13929;O00167;A6NNW6;Q9NRN7;Q15181;Q9NSD9;O60930;Q9UBZ9;O95551;O95394;P36871;O75582;Q96G03;P25815;P39748;P28838;P35813;O75688;O43318;P06733;Q9NVV4;P51003}

8223 Pathogen[ P0C214] interacts with 44 human partners:{O95551;Q96P26;Q13907;P35813;O75874;Q9NPP4;O95363;P35558;P28838;P54922;P51003;O00167;Q9UBZ9;P29401;P48735;Q9Y2M0;Q8N819;O43318;O95989;P13929;Q96G03;A6NNW6;P50213;A4D1E9;P36871;Q15124;P14618;O43837;P09104;O60930;P06733;Q9UHY7;P25815;O75582;P39748;O95394;O75688;Q9H008;Q15181;Q9NSD9;Q9NRN7;Q9NVV4;P51553;Q9H0P0}

8224 Pathogen[ P03346] interacts with 28 human partners:{P85037;Q9H2U2;P35813;Q9NRN7;O95551;A6NNW6;O00167;P13929;O60930;P25815;Q9UBZ9;P36871;P06733;Q9NPP4;P51003;Q9NVV4;O75688;Q9UHY7;O75582;Q01167;Q96G03;Q15181;O95394;O43318;P39748;Q9Y2M0;Q9H008;Q969T7}

8225 Pathogen[ Q85601] interacts with 31 human partners:{Q9NRN7;Q9Y2M0;O75688;Q9NSD9;O95989;P06733;Q9H008;P14618;Q15124;Q9H2U2;P13929;P36871;Q9UBZ9;P25815;O75582;O95363;O95394;A4D1E9;Q9UHY7;Q9H0P0;O60930;Q9NVV4;O43318;P39748;Q15181;P51003;P35813;O00167;Q13907;Q96G03;O95551}

8226 Pathogen[ P14079] interacts with 46 human partners:{P28838;Q9H0P0;Q9BRP7;P54922;Q9H4K7;Q8NDY3;Q96P26;O75582;Q13907;Q969T7;O95363;A4D1E9;Q9H008;Q9UUKK9;P29401;Q9H773;A6NNW6;Q9UBZ9;Q15124;P06733;P25815;O95394;P35813;Q9H2U2;Q8N8Q3;O95989;O60256;Q9NVV4;Q9NRN7;Q9NSD9;Q9Y2M0;Q9NWX6;O95551;Q15181;P13929;Q9BXI3;O75688;Q14558;Q96G03;P51003;O00167;P52701;O60930;P36871;P39748;Q9NPP4}

8227 Pathogen[ P03383] interacts with 25 human partners:{Q9NVV4;Q96G03;O75582;Q9H2U2;A6NNW6;P51003;P25815;O00167;P54922;P28838;Q9NRN7;P35813;O43318;O95363;Q9Y2M0;Q9UBZ9;Q15181;O95394;O60930;O95551;O95989;P06733;Q9NSD9;A4D1E9;Q9H008}

8228 Pathogen[ P03410] interacts with 45 human partners:{Q9BRP7;Q9H4K7;Q96P26;P35813;P36871;O75582;Q9H773;Q9UUKK9;P06733;Q15124;Q8NDY3;Q9NPP4;P39748;Q9H2U2;Q9NVV4;P28838;Q9NSD9;O60930;P25815;P51003;O75688;O43318;Q9UBZ9;O95551;Q9BXI3;P52701;Q14558;O95989;Q9NRN7;O60256;Q9H008;Q96G03;P13929;A4D1E9;Q9H0P0;O00167;P54922;Q13907;Q9Y2M0;Q15181;O95394;A6NNW6;Q9NWX6;O95363;Q969T7}

8229 Pathogen[ P14075] interacts with 25 human partners:{P06733;P51003;P35813;Q9UBZ9;P54922;Q9NSD9;O75582;A4D1E9;Q9NVV4;O60930;O95363;Q96G03;O00167;Q9Y2M0;O43318;Q9H008;A6NNW6;Q9H2U2;O95394;P25815;P28838;Q15181;Q9NRN7;O95989;O95551}

8230 Pathogen[ P0C206] interacts with 40 human partners:{O95363;P06733;Q9Y2M0;O00167;P50213;Q96G03;P52701;O75582;Q9BRP7;O95394;P28838;O43318;P51003;A6NNW6;Q15124;P25815;P54922;P30291;O95989;O60930;O75688;Q13907;Q9NSD9;Q9UHY7;Q9H0P0;O95551;Q9H2U2;Q9NVV4;Q9UBZ9;Q9H008;A4D1E9;P39748;P13929;Q969T7;P14618;P36871;P35813;Q9NRN7;P29401;Q15181}

8231 Pathogen[ P03363] interacts with 22 human partners:{Q9H2U2;Q9NVV4;Q9NSD9;Q969T7;Q9Y2M0;P06733;O43318;P25815;A6NNW6;P51003;Q01167;Q9NRN7;O95363;Q9H008;O00167;O95551;O60930;Q9NPP4;Q9UBZ9;O75688;Q15181;Q96G03}

8232 [Cluster 749]GO:0070990+F molecular\_function [name] snRNP binding [def] "Interacting selectively and non-covalently with any part of a small nuclear ribonucleoprotein particle." [GOC

8233 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8WWY3}

8234 Pathogen[ P0C214] interacts with 1 human partners:{Q8WWY3}

8235 Pathogen[ P03346] interacts with 1 human partners:{Q8WWY3}

8236 Pathogen[ Q85601] interacts with 1 human partners:{Q8WWY3}

8237 Pathogen[ P14079] interacts with 1 human partners:{Q8WWY3}

8238 Pathogen[ P03383] interacts with 1 human partners:{Q8WWY3}

8239 Pathogen[ P03410] interacts with 1 human partners:{Q8WWY3}

8240 Pathogen[ P14075] interacts with 1 human partners:{Q8WWY3}

8241 Pathogen[ P0C206] interacts with 1 human partners:{Q8WWY3}

8242 Pathogen[ P03363] interacts with 1 human partners:{Q8WWY3}

8243 [Cluster 750]GO:0070742+F molecular\_function [name] C2H2 zinc finger domain binding [def] "Interacting selectively and non-covalently with a C2H2-type zinc finger domain of

a protein. The C2H2 zinc finger is the classical zinc finger domain, in which two conserved cysteines and histidines co-ordinate a zinc ion." [GOC

8244 Pathogen[ Q2Q067] interacts with 9 human partners:{Q16594;Q9UBB5;P15976;Q2QGD7;P23769;P26368;Q9BT49;Q9UQ35;P98168}

8245 Pathogen[ P0C214] interacts with 8 human partners:{P26368;Q9BT49;P23769;P98168;Q16594;Q2QGD7;Q9UQ35;Q9UBB5}

8246 Pathogen[ P03346] interacts with 10 human partners:{Q2QGD7;P23769;P98168;Q9BT49;P15976;P26368;Q9UQ35;Q9UH73;Q9UBB5;Q16594}

8247 Pathogen[ Q85601] interacts with 9 human partners:{Q9BT49;P15976;P23769;Q2QGD7;Q16594;Q9UQ35;P26368;Q9UBB5;P98168}

8248 Pathogen[ P14079] interacts with 9 human partners:{P98168;Q16594;Q2QGD7;Q9UBB5;P26368;P15976;Q9UQ35;Q9BT49;P23769}

8249 Pathogen[ P03383] interacts with 8 human partners:{P23769;P26368;Q9UBB5;Q16594;P98168;Q9UQ35;Q2QGD7;Q9BT49}

8250 Pathogen[ P03410] interacts with 9 human partners:{P26368;Q9UBB5;Q9BT49;Q9UQ35;Q16594;P98168;P23769;Q2QGD7;P15976}

8251 Pathogen[ P14075] interacts with 8 human partners:{P23769;Q9BT49;Q9UBB5;Q9UQ35;Q16594;P26368;P98168;Q2QGD7}

8252 Pathogen[ P0C206] interacts with 9 human partners:{P98168;P26368;Q9UBB5;Q9BT49;P15976;Q9UQ35;P23769;Q2QGD7;Q16594}

8253 Pathogen[ P03363] interacts with 7 human partners:{P98168;P26368;Q2QGD7;Q9BT49;Q9UQ35;Q9UBB5;Q16594}

8254 [Cluster 751]GO:0008242+F molecular\_function [name] omega peptidase activity [def] "Catalysis of the removal of terminal peptide residues that are substituted, cyclized or linked by isopeptide bonds (peptide linkages other than those of alpha-carboxyl to alpha-amino groups)." [EC

8255 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9Y5K5;P54252}

8256 Pathogen[ P0C214] interacts with 3 human partners:{Q9Y5K5;Q9H3M9;P54252}

8257 Pathogen[ P03346] interacts with 4 human partners:{Q9H3M9;Q96FW1;Q9Y5K5;P54252}

8258 Pathogen[ Q85601] interacts with 3 human partners:{Q9H3M9;P54252;Q9Y5K5}

8259 Pathogen[ P14079] interacts with 4 human partners:{Q9H3M9;P54252;Q9Y5K5;Q96FW1}

8260 Pathogen[ P03383] interacts with 3 human partners:{P54252;Q9Y5K5;Q9H3M9}

8261 Pathogen[ P03410] interacts with 4 human partners:{Q96FW1;Q9H3M9;P54252;Q9Y5K5}

8262 Pathogen[ P14075] interacts with 4 human partners:{Q96FW1;P54252;Q9H3M9;Q9Y5K5}

8263 Pathogen[ P0C206] interacts with 4 human partners:{P54252;Q9Y5K5;Q9H3M9;Q96FW1}

8264 Pathogen[ P03363] interacts with 3 human partners:{Q9Y5K5;P54252;Q96FW1}

8265 [Cluster 752]GO:0004649+F molecular\_function [name] poly(ADP-ribose) glycohydrolase activity [def] "Catalysis of the hydrolysis of poly(ADP-ribose) at glycosidic (1''-2') linkage of ribose-ribose bond to produce free ADP-ribose." [EC

8266 Pathogen[ Q2Q067] interacts with 2 human partners:{Q86W56;Q9NX46}

8267 Pathogen[ P0C214] interacts with 2 human partners:{Q86W56;Q9NX46}

8268 Pathogen[ P03346] interacts with 2 human partners:{Q86W56;Q9NX46}

8269 Pathogen[ Q85601] interacts with 2 human partners:{Q86W56;Q9NX46}

8270 Pathogen[ P14079] interacts with 2 human partners:{Q9NX46;Q86W56}

8271 Pathogen[ P03383] interacts with 2 human partners:{Q9NX46;Q86W56}

8272 Pathogen[ P03410] interacts with 2 human partners:{Q86W56;Q9NX46}

8273 Pathogen[ P14075] interacts with 2 human partners:{Q9NX46;Q86W56}

8274 Pathogen[ P0C206] interacts with 2 human partners:{Q9NX46;Q86W56}

8275 Pathogen[ P03363] interacts with 2 human partners:{Q9NX46;Q86W56}

8276 [Cluster 753]GO:0004704+F molecular\_function [name] NF-kappaB-inducing kinase activity [def] "Catalysis of the phosphorylation of the alpha or beta subunit of the inhibitor of kappaB kinase complex (IKK)." [PMID

8277 Pathogen[ Q2Q067] interacts with 1 human partners:{P60510}

8278 Pathogen[ P0C214] interacts with 2 human partners:{Q14164;P60510}

8279 Pathogen[ P03346] interacts with 2 human partners:{Q14164;P60510}

8280 Pathogen[ Q85601] interacts with 2 human partners:{Q14164;P60510}

8281 Pathogen[ P14079] interacts with 2 human partners:{Q14164;P60510}

8282 Pathogen[ P03383] interacts with 1 human partners:{P60510}

8283 Pathogen[ P03410] interacts with 1 human partners:{P60510}

8284 Pathogen[ P14075] interacts with 1 human partners:{P60510}

8285 Pathogen[ P0C206] interacts with 2 human partners:{Q14164;P60510}

8286 Pathogen[ P03363] interacts with 1 human partners:{P60510}

8287 [Cluster 754]GO:0030374+F molecular\_function [name] ligand-dependent nuclear receptor transcription coactivator activity [def] "The function of a transcription cofactor that activates transcription in conjunction with a ligand-dependent nuclear receptor from a RNA polymerase II promoter\_ does not bind DNA itself." [GOC

8288 Pathogen[ Q2Q067] interacts with 27 human partners:{Q96HR3;Q9NPJ6;Q99816;Q9BQA1;Q15596;Q9Y606;Q8NF64;Q9HD15;Q93074;O75448;O60244;Q8IX12;Q14CW9;Q9BYK8;Q15532;O75528;Q9UHV7;Q9NVC6;Q8NI08;Q14686;P17096;Q9P1Z2;Q96PK6;Q9NPA8;Q6STE5;Q9Y2W1;Q86X55}

8289 Pathogen[ P0C214] interacts with 26 human partners:{Q8IX12;O75528;Q8NF64;Q9HD15;Q14CW9;Q93074;P17096;Q96HR3;Q9NVC6;Q6STE5;Q8NI08;Q14686;O60244;Q9BYK8;Q9NPA8;Q96PK6;Q9UHV7;Q15532;Q99816;O75448;Q86X55;Q9P1Z2;Q15596;Q9Y606;Q9Y2W1;Q9NPJ6}

8290 Pathogen[ P03346] interacts with 30 human partners:{Q9Y606;Q15788;Q8IX12;Q9NPJ6;Q9BQA1;Q9P2W1;Q9HD15;Q96HR3;Q58WW2;Q93074;Q9981

6;O60244;P17096;Q8NF64;Q15532;O75448;Q15596;O75528;Q9P1Z2;Q6STE5;Q9NVC6;Q86X55;Q9BYK8;Q8NI08;Q14CW9;Q9Y2W1;Q9NPA8;Q96PK6;Q9UHV7;Q14686}

8291 Pathogen[ Q85601] interacts with 27 human partners:{Q99816;Q15532;Q9BQA1;Q96PK6;O75528;P17096;Q86X55;Q6STE5;Q14CW9;Q9Y606;Q9UHV7;Q8IX12;O75448;Q15596;Q14686;Q9HD15;Q9BYK8;Q9NPA8;Q9P1Z2;Q9Y2W1;O60244;Q96HR3;Q93074;Q9NPJ6;Q8NF64;Q9NVC6;Q8NI08}

8292 Pathogen[ P14079] interacts with 27 human partners:{O60244;Q8IX12;Q9BYK8;Q15532;Q6STE5;Q15596;O75528;Q14CW9;Q96HR3;P17096;Q9NVC6;Q8NI08;O75448;Q8NF64;Q9UHV7;Q9BQA1;Q9HD15;Q15788;Q9NPJ6;Q9Y606;Q93074;Q99816;Q9P1Z2;Q14686;Q9Y2W1;Q9NPA8;Q96PK6}

8293 Pathogen[ P03383] interacts with 27 human partners:{Q9BQA1;O75528;P17096;Q9NPA8;Q15596;O60244;Q86X55;Q14686;Q6STE5;Q15532;Q99816;Q9NPJ6;Q93074;Q96HR3;Q14CW9;O75448;Q9Y606;Q9HD15;Q96PK6;Q8NF64;Q8IX12;Q9UHV7;Q9NVC6;Q9Y2W1;Q9BYK8;Q9P1Z2;Q8NI08}

8294 Pathogen[ P03410] interacts with 27 human partners:{Q9Y2W1;Q8IX12;Q96PK6;Q8NI08;Q14686;Q9BYK8;O75528;Q9NVC6;Q9NPJ6;Q14CW9;Q86X55;P17096;Q9BQA1;Q9P1Z2;Q99816;Q9NPA8;Q96HR3;Q15596;Q9Y606;O60244;Q9UHV7;Q93074;Q6STE5;Q9HD15;Q15532;Q8NF64;O75448}

8295 Pathogen[ P14075] interacts with 27 human partners:{Q9NPJ6;Q9BQA1;Q15532;Q96HR3;Q14686;P17096;Q9Y606;O75448;Q8IX12;Q93074;Q14CW9;Q9UHV7;O75528;Q96PK6;Q86X55;Q9NPA8;O60244;Q9P1Z2;Q9NVC6;Q8NI08;Q99816;Q6STE5;Q9Y2W1;Q9HD15;Q9BYK8;Q8NF64;Q15596}

8296 Pathogen[ P0C206] interacts with 28 human partners:{O75528;Q96HR3;Q9BQA1;Q86X55;Q6STE5;Q99816;Q9P1Z2;Q15532;Q9HD15;Q9UHV7;Q9BYK8;Q8NI08;Q8NF64;Q14CW9;Q9NPJ6;Q96PK6;Q14686;Q9Y2W1;P17096;Q9Y606;O60244;Q8IX12;Q15596;Q9NVC6;O75448;Q9NPA8;Q15788;Q93074}

8297 Pathogen[ P03363] interacts with 27 human partners:{Q6STE5;Q96HR3;Q9Y606;Q9HD15;Q15532;Q15596;Q14686;Q96PK6;Q9BQA1;P17096;Q9P1Z2;Q9NVC6;Q9UHV7;Q8NI08;Q9BYK8;Q9NPA8;Q93074;O75448;Q14CW9;Q8IX12;Q9NPJ6;Q99816;O60244;Q8NF64;Q58WW2;Q86X55;O75528}

8298 [Cluster 755]GO:0046404+F molecular\_function [name] ATP-dependent polydeoxyribonucleotide 5'-hydroxyl-kinase activity [def] "Catalysis of the reaction

8299 Pathogen[ Q2Q067] interacts with 1 human partners:{Q86UW6}

8300 Pathogen[ P0C214] interacts with 1 human partners:{Q86UW6}

8301 Pathogen[ P03346] interacts with 1 human partners:{Q86UW6}

8302 Pathogen[ Q85601] interacts with 1 human partners:{Q86UW6}

8303 Pathogen[ P14079] interacts with 1 human partners:{Q86UW6}

8304 Pathogen[ P03383] interacts with 1 human partners:{Q86UW6}

8305 Pathogen[ P03410] interacts with 1 human partners:{Q86UW6}

8306 Pathogen[ P14075] interacts with 1 human partners:{Q86UW6}

8307 Pathogen[ P0C206] interacts with 1 human partners:{Q86UW6}

8308 Pathogen[ P03363] interacts with 1 human partners:{Q86UW6}

8309 [Cluster 756]GO:0010997+F molecular\_function [name] anaphase-promoting complex binding [def] "Interacting selectively and non-covalently with an anaphase-promoting complex. A ubiquitin ligase complex that degrades mitotic cyclins and anaphase inhibitory protein, thereby triggering sister chromatid separation and exit from mitosis." [GOC

8310 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9HAW4}

8311 Pathogen[ P0C214] interacts with 1 human partners:{Q9HAW4}

8312 Pathogen[ P03346] interacts with 1 human partners:{Q9HAW4}

8313 Pathogen[ Q85601] interacts with 1 human partners:{Q9HAW4}

8314 Pathogen[ P14079] interacts with 1 human partners:{Q9HAW4}

8315 Pathogen[ P03383] interacts with 1 human partners:{Q9HAW4}

8316 Pathogen[ P03410] interacts with 1 human partners:{Q9HAW4}

8317 Pathogen[ P14075] interacts with 1 human partners:{Q9HAW4}

8318 Pathogen[ P0C206] interacts with 1 human partners:{Q9HAW4}

8319 Pathogen[ P03363] interacts with 1 human partners:{Q9HAW4}

8320 [Cluster 757]GO:0001222+F

8321 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96QT6}

8322 Pathogen[ P0C214] interacts with 1 human partners:{Q96QT6}

8323 Pathogen[ P03346] interacts with 2 human partners:{Q96QT6;P51858}

8324 Pathogen[ Q85601] interacts with 1 human partners:{Q96QT6}

8325 Pathogen[ P14079] interacts with 1 human partners:{Q96QT6}

8326 Pathogen[ P03383] interacts with 1 human partners:{Q96QT6}

8327 Pathogen[ P03410] interacts with 1 human partners:{Q96QT6}

8328 Pathogen[ P14075] interacts with 1 human partners:{Q96QT6}

8329 Pathogen[ P0C206] interacts with 1 human partners:{Q96QT6}

8330 Pathogen[ P03363] interacts with 2 human partners:{P51858;Q96QT6}

8331 [Cluster 758]GO:0032089+F molecular\_function [name] NACHT domain binding [def] "Interacting selectively and non-covalently with a NACHT (NAIP, CIITA, HET-E and TP1) domain. The NACHT domain consists of seven distinct conserved motifs, including an ATP/GTPase specific P-loop, a Mg(2+)-binding site and five more specific motifs." [GOC

8332 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9Y2G2}

8333 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y2G2}

8334 Pathogen[ P03346] interacts with 2 human partners:{Q9Y2G2;Q9Y2G2}

8335 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y2G2}

8336 Pathogen[ P14079] interacts with 2 human partners:{Q9Y2G2;Q9Y2G2}

8337 Pathogen[ P03383] interacts with 1 human partners:{Q9Y2G2}  
8338 Pathogen[ P03410] interacts with 1 human partners:{Q9Y2G2}  
8339 Pathogen[ P14075] interacts with 1 human partners:{Q9Y2G2}  
8340 Pathogen[ P0C206] interacts with 2 human partners:{Q9Y2G2;O95361}  
8341 Pathogen[ P03363] interacts with 1 human partners:{Q9Y2G2}  
8342 [Cluster 759]GO:0008432+F molecular\_function [name] JUN kinase binding [def]  
"Interacting selectively and non-covalently with JUN kinase, an enzyme that catalyzes the phosphorylation and activation of members of the JUN family." [GOC  
8343 Pathogen[ Q2Q067] interacts with 4 human partners:{P54259;Q13233;Q9UQF2;Q9UI95}  
8344 Pathogen[ P0C214] interacts with 4 human partners:{Q9UI95;Q13233;Q9UQF2;P54259}  
8345 Pathogen[ P03346] interacts with 4 human partners:{Q9UI95;Q13233;Q9UQF2;P54259}  
8346 Pathogen[ Q85601] interacts with 4 human partners:{P54259;Q9UI95;Q9UQF2;Q13233}  
8347 Pathogen[ P14079] interacts with 2 human partners:{Q9UQF2;P54259}  
8348 Pathogen[ P03383] interacts with 4 human partners:{Q13233;Q9UI95;Q9UQF2;P54259}  
8349 Pathogen[ P03410] interacts with 4 human partners:{Q9UI95;Q13233;P54259;Q9UQF2}  
8350 Pathogen[ P14075] interacts with 4 human partners:{Q9UI95;P54259;Q13233;Q9UQF2}  
8351 Pathogen[ P0C206] interacts with 4 human partners:{Q9UQF2;Q13233;P54259;Q9UI95}  
8352 Pathogen[ P03363] interacts with 4 human partners:{P54259;Q9UQF2;Q9UI95;Q13233}  
8353 [Cluster 760]GO:0003676+F molecular\_function [name] nucleic acid binding [def]  
"Interacting selectively and non-covalently with any nucleic acid." [GOC  
8354 Pathogen[ Q2Q067] interacts with 724 human  
partners:{E7ETH6;O95376;Q0D2J5;Q12901;Q9HC78;Q09FC8;Q01844;Q9UNP9;Q9UM63;P23588;Q96SQ  
5;Q9Y473;Q14526;Q8WV37;Q8N859;Q12798;P52742;Q9BRH9;Q96N77;C9JN71;Q14151;Q7RTT3;P33240  
;P17544;Q13118;P25490;Q96D70;Q9UK13;P35789;Q6V9R5;Q8NA42;O00425;O95639;O43167;Q2M218;  
Q8TA86;Q9UJN7;Q96MW7;Q03923;Q86U42;Q9UEG4;P26233;Q9BUG6;A6NDX5;P07910;Q8NEM1;Q9UC06;P  
98182;Q9H7X3;Q9UK11;P17029;P52738;Q9NR56;A8MTY0;Q9H7R0;Q96PE6;Q8IZ26;Q9BRR0;A6NJL1;O4  
3361;Q9Y462;Q96NI8;O75925;Q6NUN9;Q9UJL9;Q9UL41;O60304;P24278;Q8NEP9;Q6ZQV5;Q9HBE1;O95  
391;Q8N0Y2;Q92664;Q5VTD9;Q15928;Q96K75;P52272;Q92889;Q13887;Q8TA94;O75534;O75494;Q8IZ  
H2;Q8NCE0;P14866;Q86YE8;P27694;Q08AN1;P58317;Q8WW38;Q6ZMY9;Q8N8Z8;Q6ZS27;A6NP11;Q9UL5  
9;O15226;Q8N4W9;Q53EQ6;Q9H2P0;Q13148;P10073;Q9HAZ2;O60481;Q7KZF4;P67809;A6NGD5;Q5SXM1  
;Q6IV72;A8MSL1;Q8N2I2;Q7Z6K1;Q6ECI4;Q9UC07;Q9H9D4;Q12986;P55795;Q01130;Q6ZT77;Q9ULD5;  
P51508;Q14590;Q9NTW7;Q9Y2Y9;Q96NG8;Q9HCK5;Q6ZNO6;Q15233;P41182;Q9Y2X9;Q9H5H4;Q8NBB4;Q  
9BUL9;P82979;Q96H40;P49910;Q9NZV7;Q9UHX1;P51531;Q8N684;Q6P2D0;Q9HCL3;Q6U7Q0;Q9UKJ3;Q8  
TD23;Q96SK3;Q96IT1;Q147U1;Q15697;Q96LW1;Q9NZL3;Q9Y6M1;O43390;Q7L2R6;P08151;O96006;Q99  
676;Q13435;Q96SL8;P37275;Q8IYW8;Q05516;Q05481;Q02930;Q8NCK3;Q8NDW4;Q15696;O75820;Q7Z7  
J5;P10074;Q15046;Q9Y5N5;O60315;Q9P0L1;Q9ULV3;Q14119;Q9H4Z2;Q6P9A1;Q96P6;Q8N782;Q969S  
2;Q96NL3;Q4W5G0;Q8WTR7;Q8TAW3;P38919;P51815;P14373;Q14103;O60506;Q8TF20;Q6ZR52;O60930  
;Q99684;P52741;Q9UDV7;Q8TF68;Q3KQV3;Q9P255;Q9H6T0;Q8NC26;O43296;Q6R2W3;Q9H4T2;Q9UBU7;  
P18615;O14709;C9JBD0;Q08ER8;Q5T5D7;Q9NQX1;Q9ZMW2;P06748;O00148;Q2M3W8;O15535;Q7RTT5;O  
14628;Q8TBC5;Q6ZSS3;Q6ZRS2;Q96AH0;Q02447;Q99909;Q86YF9;Q9NSD4;Q2M1K0;Q96LX12;Q9  
Y534;P17030;P17031;Q7Z340;Q86UE3;Q9H668;O75362;Q16670;Q96N95;Q9Y5A6;Q8TF47;P17036;Q13  
838;Q9ULJ3;P17040;Q15560;Q2QGD7;Q16531;P17010;O95625;P17038;Q07955;Q9UK12;Q8WU90;Q9UD  
W3;P38935;P08047;Q8TC21;Q13156;Q96C28;O75928;Q7RTT6;Q8NDT2;Q16629;O43829;P16415;Q86Y2  
5;Q9BQ15;P0CG00;Q8N184;Q96NJ6;Q14240;Q504Q3;Q13129;Q9H7S9;Q7Z3V5;Q3SXZ3;Q5TAX3;Q9UBF7  
;Q96159;Q6IQ21;Q13398;Q53GI3;Q96MR9;Q6PJT7;P31943;Q96BV0;O43776;A8MT53;Q9BUY5;  
Q96QC0;P49756;Q15424;B2RXP5;P26196;Q8N3J9;Q9Y2P0;Q9Y2H8;P52743;Q499Z4;Q10570;Q15937;Q  
7Z2W4;P08621;Q9GZR2;Q68EA5;Q9Y2K5;O75607;Q16630;Q68DY1;Q7RTV3;Q8N5P1;Q9HCG1;Q6P280;Q9  
BY77;Q8TAU3;Q9UL58;P38159;P52747;Q96SR6;Q9UHI6;Q14929;Q5T619;Q9BSV6;Q14593;Q15929;O75  
391;Q9UIV1;Q8TB69;P84103;Q15072;Q15935;Q96C00;Q8N1G2;Q8IVP9;Q63HK3;Q9UII5;Q8NE65;A8MU  
V8;Q96KR1;Q96JM3;Q9ULM2;Q9NP64;Q96N38;A8MWA4;Q5SVQ8;A8MQ14;Q14498;Q96CX3;P17032;Q86V8  
1;Q8IWX8;Q6P9G9;Q9Y2T7;Q52M93;P15621;Q14585;Q9NQX6;P17022;Q68DI1;P51504;Q96T37;Q8N8C0  
;Q9Y2D9;Q96SZ4;P56270;A2RRD8;B4DXR9;Q6NX45;P17098;O75437;Q8NF99;Q13360;Q6P9A3;B1APH4;  
P15927;Q66K41;P0C7X5;Q8N3C0;Q13310;O95628;Q96GC6;Q76KX8;A6NHJ4;Q8N895;Q96N22;A8MX4;Q  
8N141;Q05519;Q03924;Q96LX8;P26368;Q5JNZ3;Q9Y2Q1;Q6PK81;Q96NG5;O43251;A6NNF4;Q13127;Q9  
P2J8;O95780;Q96JM3;Q6PF04;Q6NZY4;Q9Y2V2;Q9BR84;Q9H116;Q9Y6X2;Q9UBB9;Q9ULH7;P11161;Q9H  
9G7;O75152;Q08211;P51532;Q8NI51;P62269;P15622;Q9H4L7;Q96K62;P08579;Q7Z3K3;Q5T200;Q3KP  
31;Q5JVG8;O43830;P52597;Q49A33;P23246;Q12873;P86452;Q9Y5S9;Q3SY52;B4DX44;Q9UFF9;Q0108  
1;Q96BK5;Q8N988;P59923;Q969J2;Q5VUA4;Q9NYT6;Q494X3;A6NM28;Q9Y2L8;Q8IYB9;P46100;Q8IX07  
;Q32M78;Q9H9Z2;O60225;Q03468;O14771;Q9NQZ8;P0CH99;Q8N823;P17041;Q8N9K5;Q9UIH9;Q13243;  
Q9BSG1;P0CJ79;Q3MJ62;Q969S3;P12956;Q8N7M2;Q9BT49;O60765;Q8NB50;Q3ZCT1;Q9UKV8;Q8WVV9;Q  
5HYK9;Q3L8U1;Q8N9Z0;Q92785;Q2VY69;P19338;Q8WTV1;P51523;Q9UKV3;Q9H963;Q92499;Q9NYW8;Q8  
6TG7;Q9BYN7;Q96GE5;Q86UP8;Q8N720;P51786;O75564;Q9HCZ1;Q8NB42;P09012;P23193;P54098;Q9H  
BT7;Q9H9L3;Q8TBZ5;Q9HAH1;Q86VM9;Q9Y2P7;Q6P3V2;O75346;Q14588;Q14839;Q6ZMV8;O15504;P153  
36;Q14592;Q6AZW8;Q6NSZ9;Q9BUJ2;P28698;Q6ZNG0;Q8N9F8;P0C7V5;P17021;Q9UNY4;Q9UID6;Q1487  
2;Q9UDV9;Q5CZAS;Q96HQ0;Q9BRR8;Q9UKN5;Q9UNY5;Q9H707;Q9NSJ1;Q9UKT9;P41208;Q5SVZ6;P52298  
;O14646;P16989;B4DU55;Q6PG37;O60290;O75373;Q9BYX4;Q8IW36;Q96CS4;Q49AA0;Q9ULG1;Q15427;  
Q9GZU2;Q86TJ5;Q9UBL0;Q6PI48;Q8IVC4;Q9UK10;A8MUZ8;Q96EK4;Q96SE7;Q9HCK8;P47974;Q7L945;Q  
8NDQ6;O75764;Q13106;Q86XF7;Q5TEC3;Q969V6;O95125;Q96PK6;Q16385;P17019;P0CG31;Q86WJ1;P0  
C7X2;Q9Y2G7;Q8IYX0;Q9UJW7;Q9NSC2;Q92670;Q9UL18;P52736;Q96N3Z6;Q8NXN6;Q8N5L8;Q9G  
ZX5;Q9H8G1;Q96MN9;Q9BQA5;P17025;A6NK75;Q9HBD4;Q8N587;Q8N7Q3;Q7Z398;P13682;Q8IYI8;P266  
51;Q86V71;P52744;Q9UGR2;A6NN14;Q96JL9;P28370;P0CB33;Q6ZNH5;Q9NWS9;Q3ZCX4;Q9BX82;O9545  
3;Q9P0T4;Q5HY98;Q6B0B8;O75792;Q15637;Q8NEK5;O43309;O14978;P35637;Q6ZN79;Q9H7R5;P22626  
;Q9COF3;Q8N972;Q9H0M5;Q9UL40;Q8WVK2;P18583;Q6ZNO8;Q8NHY6;Q8TBZ8;Q16384;Q9UIE0;Q92917;  
Q68DY9;P11940;Q5VIY5;P0CG24;O75290;Q8WXF1;Q8WXB4;P49711;A2A288;Q8N5A5;Q93062;Q9NVV9;Q  
92841;Q9BWM5;Q8TF32;Q96GM8;Q16600;Q2M3X9;P52737;Q9UQR1;Q8TAF7;Q8N7K0;Q15776;Q66K89;Q8  
IYD8;Q08AG5;Q12874;O75132;Q86W11;P60842;P51522;Q6ZN17;A6NEJ1;Q96PM9;Q96BR6;Q00839;Q96



8355

IR2;Q969W8;Q6ZNA1;Q15056;Q96QE5;O95201;O43345;Q8TDD2;Q5FWF6;Q8N393;P07199;Q8WTZ3;Q8NAP3;Q96ND8;Q96LW9;Q3MIS6;Q9UL36;Q8TAQ5;Q13105;Q9NV72;Q6ZNG1;Q8IYN0;Q96JC4;P09234;O15015;Q9UPG8;P14868;Q9Y2A4;Q07352;O75821;P21506;Q14584;Q13888;Q9Y6R6;Q8NG50;Q86XU0;P17014;Q6ZMS7;P17023;Q8NDP4;Q6ZNO1;P18146;Q7Z6E9;Q03112;Q15428;P17028;Q76FK4;P15822;Q03936;Q13064;Q8N2W9;P17024;A8K8V0;P98168;Q7Z3I7;Q03938;Q8TF39;O60224}

Pathogen[PC214] interacts with 858 human partners: {Q9BY77;Q86UD4;A6NDX5;Q6ZNS5;Q6NX49;Q6PDB4;Q13310;Q92618;Q6NZY4;Q06732;Q8NEK5;Q9NQZ8;Q14526;P82979;Q8NI51;Q96GM8;Q9Y6X2;Q7Z3K3;Q96C28;Q96BK5;Q14527;Q96MU6;Q9P255;Q6B0B8;Q9UKN5;Q96RE9;Q8N1G1;Q969S3;P26368;Q7Z2F6;A8MUV8;Q9H6T0;O43296;Q6ZNI17;Q8TBZ8;Q96QE5;Q8IZC7;O75467;Q6ZNI1;Q96LW9;Q9UID6;Q9BUL9;Q6ZNA1;Q9P0T4;P35789;Q8NDQ6;Q13887;P26196;Q8IX12;Q96T58;P17032;Q14593;Q15697;A6NGD5;A8MVS1;Q9HCZ1;Q02930;P56270;O43829;P51508;Q7Z398;P16989;A8MQ14;P52743;P35637;Q13156;Q9BT49;Q17R26;Q9P0L1;P17010;Q63HK3;Q9ULD5;A8K8V0;O75764;O95453;O43830;Q9BS34;Q9Y2A4;Q6PEW1;P0CI00;Q14872;Q53EQ6;O00148;Q8N7Q3;P38159;Q8IYN0;Q14929;Q96KR1;P17023;Q9BX82;Q6R2W3;Q9Y2D9;Q14591;Q9Y5A6;Q6ZNS7;P51814;Q5T5D7;P60842;Q05481;A6NHJ4;Q96SQ5;Q92664;P0CB33;Q9UL59;O75925;P52744;Q6ZNH5;Q5JVG8;Q8IYW8;Q8NC26;Q96I59;Q8N5A5;P15336;Q9Y473;Q92889;Q96LW1;A6NP11;Q5SVZ6;P54098;Q96I27;O15535;P84103;Q8TD17;Q6PG37;Q86V81;Q9NTW7;Q8TF45;O75820;Q9BWM5;Q8TAQ5;Q9UDW3;P52742;Q9Y5S9;Q14587;Q12873;Q9NPC7;P06748;O95628;Q86UE3;P26599;Q9UIH9;Q8TBC5;Q9GZU2;Q8NDP4;Q96CX3;Q96NJ3;P52738;Q92841;Q5JVG2;P0CG31;Q9NR56;Q96K62;Q96BR6;Q9HBE1;Q8NCA9;P23588;Q7L2R6;Q9H0S4;Q8JTD23;Q9P2F9;Q8N587;Q8TAU3;Q8N2W9;Q14119;Q03112;Q9UJN7;P17019;Q8N0Y2;Q8IVP9;Q9UC06;C9JN71;Q504Q3;Q9Y2V2;Q68DY1;Q5MCW4;Q16384;Q9P2N5;Q99676;Q9HCI6;Q8NCK3;Q5JTZ9;Q8N823;Q8N5L8;Q9UNY5;Q8NEP9;Q08AN1;P17022;Q9HBD4;Q6NT04;O15056;O75362;Q9NUA8;Q9H6B1;O60224;Q15233;Q16587;Q9BTE6;Q7Z7K2;Q969W8;Q15637;P67809;Q499Z4;Q5T200;Q96GE5;P31483;O95625;P79522;Q86XU0;Q8TF20;O43167;Q6P9A1;O75437;P23246;Q6ZRS2;Q6PK81;Q6P1L6;Q9UL58;Q8IYW8;O95125;Q5TYW1;Q15428;Q6PF04;Q86WZ6;Q9UK11;Q86YE8;Q9NR11;Q96CS4;O14709;P17029;O0425;O75821;P17544;Q12986;Q9Y2Y9;Q96SR6;Q5JUW0;Q8NAP3;Q9UK13;Q9UL40;P17026;Q96MM9;Q96SK3;Q96AH0;Q9NW07;Q5HY98;Q3L8U1;Q2M1K9;Q7L2E3;O75123;Q2M3W8;Q15056;Q02386;O75607;Q15973;Q3MJ62;P37275;Q3KP31;Q6PJT7;Q8N8C0;Q15928;Q9ULG1;Q9UPG8;Q96K58;Q9BYX4;A8MT65;Q96JC4;P11940;P98168;Q7Z3I7;Q8IZ26;Q10570;Q8N9F8;P17024;Q9Y2Q1;Q6ZR52;O14771;P112901;Q96NG5;Q96N77;Q96SE7;Q9UBU7;Q6ZMS7;Q9NZI8;Q9H4L7;Q6ZNI19;Q9UL41;P07199;Q43776;P17038;Q9UC07;P38935;Q494X3;Q96MR9;Q9Y2P0;Q96K75;O96006;Q9UI15;Q4V348;Q7KZF4;Q96S24;Q6IV72;Q8N141;P51786;Q9BY31;Q01844;Q15560;P14868;Q96BV0;P08579;A6NEJ1;Q5SVQ8;O43390;Q8N883;Q3SXZ3;Q9GZX5;Q8N684;Q9NXT0;Q13064;P51523;Q147U1;Q9BSK1;P24278;P17031;O75792;Q9HCX3;Q16630;Q16385;Q9UIV1;Q9Y3Z3;Q5VTD9;Q7Z2W4;Q13398;Q53GI3;Q9HBT8;P86452;Q99909;O60290;Q8WTV1;Q07955;P18615;P17030;Q9Y534;O75564;Q03936;Q96NL3;Q8TF68;Q9UKJ3;Q9BSV6;Q9RRT4;Q86XN6;Q8IZH2;Q7RTT5;Q07352;P55795;Q8N3C0;O95201;Q8TC21;Q96D70;P28698;Q9NWS9;P15622;Q6ECI4;Q6ZSS3;Q9BRR0;Q6ZNO8;Q8N859;Q13129;P52298;P52272;Q9HC78;B1APH4;Q9UL36;Q9ULJ3;Q8WVK2;A2A288;Q7Z7J5;P07910;Q9Y6R6;Q49AA0;Q92698;Q9UHX1;Q9Y2T7;Q7Z340;Q12798;Q6ZNG1;P18583;Q15696;Q9BRR8;Q96IT1;P08621;O60765;Q06730;Q9UJU3;Q8N184;Q9HY25;B4DXR9;Q8WXF1;O75132;O75373;Q8WTZ3;Q14103;Q9NVV9;P28370;Q9Y2H8;Q15929;Q9N4E4;Q8N4W9;A8MXY4;Q14151;Q96PE6;Q3ZCX4;Q68D11;O60225;Q7Z6E9;Q9H5H4;Q6P280;Q5VUA4;Q16600;P17014;Q8N9K5;Q8N9F9;Q9UJW7;Q8TBZ5;Q49A33;Q8N2I2;O75290;Q96JF6;P46100;P38919;Q6P9A3;Q6AW86;Q6ZMW2;Q9UNY4;Q8TF47;Q6DD87;O95376;P51504;Q96N95;Q8TF39;Q6P2D0;Q9C0F3;Q4W5G0;Q9H7X3;Q96N22;Q9NVP1;Q9HCK1;Q9NVT6;Q03924;Q92917;Q5FWF6;Q9NYW8;Q08AG5;Q86TJ5;Q13243;Q14240;Q9H8G1;Q8IYL2;Q86UP8;Q15427;Q9HAZ2;Q8N7M2;P17028;Q9P2J8;O95780;P0CH99;P98169;Q3MIS6;P52597;Q8WW38;B4DU55;P15927;Q9NQX6;O75152;P51815;Q6ZS27;P51522;Q8N393;Q9H9G7;O15060;Q05519;Q9BUG6;Q9Y5N5;Q76FK4;Q9HCK8;Q6ZMY9;E7ETH6;P62269;Q2QGD7;O15226;Q96N58;P17020;Q76KX8;Q6ZNO1;Q9BUJ2;O60264;Q9NSC2;Q9UHI6;Q969J2;Q9ULM2;Q9H9L3;O60930;Q86V71;Q8NDV7;Q9Y3M9;P17027;Q86UQ0;Q96GC6;P41182;Q6P9G9;Q03923;Q8N972;P17098;Q8IV48;Q6ZT77;P21506;Q8IYB9;Q10181;Q96PK6;P33240;P17035;P0C7X5;Q8IX07;Q8WTP8;Q9UJL9;P49588;Q9H9Z2;Q6U7Q0;Q13127;Q8NDW4;Q9BSG1;Q2VY69;O75346;A2RRD8;Q6ZNG0;Q15072;P13682;Q15424;Q86W11;Q12874;Q6NSZ9;A8MWA4;O75534;Q5SXM1;O75494;Q96ND8;Q9H4T2;Q9UKV8;P41208;P17040;O95639;Q6V9R5;Q9Y2X9;P58317;Q9UDV6;Q96C00;P10074;Q15287;Q68EA5;Q9NP64;P52747;Q8IYX0;P26651;Q8N9Z0;Q9NV72;Q5VIY5;Q9Y462;Q9UEG4;Q15935;P62633;Q9UKT9;P36508;P43243;Q7L945;O43345;P31943;Q92499;Q9H8M2;Q8WU90;Q9Y2G7;P17041;Q8NB50;Q96J125;Q96HQ0;Q6NX45;P49711;Q13106;Q02447;Q9H2U1;P09012;Q8N8Z8;P17021;P18146;Q9NUU7;Q96JL9;P0C7X2;Q8WTR7;P0CG00;P15621;Q0D2J5;P0CJ78;Q66K41;Q8IVC4;Q96MX3;Q14584;O75391;Q3SY52;Q9NQX1;A6NK75;Q9C0D7;O15504;Q6ZNO6;Q9GZR2;P57071;Q6IQ21;Q96JB3;Q14592;P17036;O43309;P17039;O60506;Q9NX65;Q8TAF7;P98182;P0C7V5;Q9UDV7;Q86TG7;Q8NB42;Q96H40;Q52M93;Q9UBL0;P55884;Q8N8L2;A6NNF4;Q96SL8;Q9Y6M1;P11161;Q13888;Q6ZRF7;Q9UJW8;Q96JM3;Q9UMR2;Q6ZMV8;Q5T619;Q96PQ6;Q7RTT3;Q9UFF9;Q9NSD4;Q8NHY6;Q8IW36;Q9HCK5;Q14585;O14978;P16415;Q6ZQV5;Q9UIE0;Q2M218;Q8N1G2;Q969V6;Q6PI48;Q8N7K0;Q9HCG1;Q08211;Q9NZV7;Q5TEC3;Q9H9D4;A8MUZ8;Q0VGE8;Q9H668;C9JBD0;Q08ER8;Q7RTT6;P49910;Q9BR84;Q8TB69;P27694;Q8NDT2;Q9H707;Q96N38;Q9HBT7;P08151;Q92804;Q9UF7;Q9UKV3;Q13435;Q00839;A6NM28;P09234;Q99684;Q9HCL3;Q9ULH7;Q6NUN9;Q9P243;Q9BSN8;Q14011;Q9BUY5;Q8N3J9;Q9BQA5;Q9HCJ0;A6NFT3;Q15776;Q9BYN7;Q9UM63;Q8N782;O14646;Q13148;P22626;Q7RTV3;P23193;Q8N1W2;Q9H7R0;P52736;Q8TA86;O43251;Q1336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8356

23;Q86VM9;Q96MW7;Q03938;O60481;Q3KNS6;Q8N720;A6NN14;Q9BRH9;Q9UGR2}  
Pathogen[ P03346] interacts with 1019 human  
partners: {Q86UQ0;E7ETH6;Q96T92;Q5F1R6;A6NK53;Q6R2W3;Q7Z3K3;Q3KNS6;Q9Y5S9;Q96NG5;Q5JVG  
2;Q9Y3Z3;Q969S3;Q13886;P08048;Q9BZE0;Q9NS91;Q5JUW0;Q12901;Q05481;Q95201;Q9NWS9;Q7Z398  
;Q8NI51;Q96D70;Q15427;Q9UKS7;Q96N20;P51991;O95639;Q9Y467;P17097;Q12874;P63119;Q96LW1;  
Q9BRR8;P46063;P57071;Q5T5D7;Q86U42;Q7Z7K2;Q9HBT8;Q8TA86;Q494X3;A8MX4;Q15042;Q9NQX6;Q  
50482;Q9NR83;O75564;P98182;Q9NRZ9;Q8TF39;Q02386;P38935;Q9NQX1;Q8N4W9;Q9H9P5;P49910;Q3  
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141;Q7Z3V5;Q9H2P0;Q6ZT77;Q9UL58;Q8NCN2;Q8N823;Q8WV38;Q6ZQV5;P52747;Q9Y2L8;Q3KQV3;O432  
96;Q8TAQ5;O95376;Q6PEW1;Q9BXA9;Q86TJ5;Q9Y5W3;O60930;Q96QC0;Q96K75;O43309;Q5FWF6;Q9ULM  
2;P27694;Q6ZSB9;Q7Z3I7;Q9UKT9;Q14011;Q9P0T4;Q06732;Q96H40;Q8N7M2;O75123;Q14590;P0CH99  
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37;Q9NX65;Q13247;Q8TF32;A8MQ14;Q86UD4;Q96SE7;Q969V6;Q9HCG1;P16989;Q15560;P19338;Q9P2F  
9;Q8TAF7;O43776;P55884;P0C7X2;O14646;Q9Y3M9;Q96BR9;P17038;Q9H4Q3;A6NK75;Q9H609;Q96N38  
;P26599;O75626;Q9NTW7;Q6NT04;Q9BUJ2;Q9Y534;Q14586;Q7RTT6;Q08211;P17014;Q92670;Q8N587;  
P10074;Q9UM63;P0CI00;Q8NB42;O60224;Q9NV72;Q86VK4;Q3SXZ3;Q92698;P52298;A6NEJ1;O43390;Q  
96BV0;Q8H165;Q09FC8;Q8N859;P52743;O15090;Q16629;Q8NBB4;Q9HCI6;O75821;Q0K823;Q5764;P6  
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955;Q8N554;A6NJL1;P17025;P15621;P17010;O43345;Q6P9A1;Q9BUL9;A8MT65;Q9HCX3;Q6EKJ0;Q9NY  
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4;Q8N3C0;Q6P9G9;P08047;Q9H582;Q96LW9;Q8TF68;Q9HC78;Q8IZH2;Q9H5H4;Q8N9F8;Q92766;Q86YF8;  
Q96JM2;Q8TDD2;P98168;Q9H963;Q9UK10;Q14119;O95600;Q8IX01;O15056;Q8N8E2;Q96CX3;A8MUV9;  
O95453;P52736;P52756;Q9H2U1;P98169;Q14592;Q14103;Q9BWF3;O60225;O15060;Q14526;P17036;Q  
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1208;Q8NFT6;Q12926;O75925;Q8NBF1;Q6ZNA1;P35637;Q9HCK5;P21506;P51508;Q9Y330;Q9UK13;Q8N  
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5;Q8NDT2;Q8N1G0;O43829;Q9H7R5;Q8TF47;O75391;Q5EBM4;Q15020;A8MWA4;Q15929;Q9UL36;Q9NXT0  
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Q03468;Q02446;O95863;P52746;Q9BQ15;Q15072;Q9UBL0;P31483;P16415;Q4W5G0;Q6AW86;Q9H7X3;Q  
96N22;Q9NQZ8;Q8IYW8;Q68EA5;Q9UDV6;Q03924;Q7Z6E9;Q9BX82;Q06730;Q13435;Q99684;Q7KZF4;P1  
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2J8;O95780;Q3KP31;Q6ZN79;P52744;O60264;O75541;Q9H668;Q03112;O75373;P17041;Q86VZ6;Q2M3  
W8;Q7RTT3;Q08ER8;Q5SVZ6;Q9HCK8;Q02086;Q5SVQ8;Q14593;Q96BR6;Q9UHI6;O43361;Q6NZY4;Q8TCN  
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3838;Q9H6T0;P31942;Q9UNY4;P15927;P17035;Q96NG8;Q53EQ6;Q9Y2Y4;Q9Y462;Q9HCZ1;Q9HCE3;P17  
021;P35659;Q6ZN06;O43251;Q9GZT3;Q63HK3;Q13887;Q13105;Q8NDW4;Q5SXM1;Q96GM8;Q8N8C0;Q96N  
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;Q96EG3;Q5VV67;Q14966;Q6ZRS2;Q8NB50;P30622;P42285;Q96T58;Q9Y6R6;O75132;Q9NWH9;Q9BYG3;  
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S4;P0C7V5;Q6P2D0;O14771;Q96SL8;Q6U7Q0;Q86XF7;Q9HBT7;Q8NAP3;O15015;Q9NSJ1;Q8TF50;P2619  
6;Q9Y2K1;Q9BYN7;Q9GZU2;Q96MM3;Q96PQ6;Q9UII5;Q96MW7;P51504;Q9HA38;Q8IWX3;Q8IYD8;Q05215  
;Q12798;Q9P255;Q9GZX5;Q9UK33;P28370;Q9H4Q4;Q96QE5;Q96ND8;Q6PI48;A6NDX5;O15226;Q9BSK1;  
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9UFB7;Q7L945;P17040;P51522;Q9UPG8;P59923;Q15424;Q9H5V7;P23193;Q96NL3;Q9HCL3;Q5TC79;P0  
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UZ6;Q9H9Z2;Q13243;Q8IYN0;O00148;Q9UID6;Q13283;Q15697;P51531;P38159;Q6ZN57;Q01844;Q6NU  
N9;Q13360;Q5T7W0;O75467;Q9NZL3;Q9AY6X2;Q96H81;Q15776;Q9Y6Q3;P51523;Q86T24;Q9UHX1;Q8WTV  
1;Q8NEK5;Q9Y2A4;Q02930;Q14588;Q6AZW8;Q3L8U1;Q96K80;Q86WJ1;O75290;Q9HAZ2;Q01101;P26651  
;P17019;Q8NCK3;Q6IV72;P29558;Q86UP8;Q16587;Q6P3V2;O75152;Q8IZ26;Q9UIE0;Q8N988;Q8TD94;  
O75928;Q9UL41;Q96GC6;Q15696;Q9BSG1;Q32P51;Q6AHZ1;Q9Y4A0;Q99729;Q9BXX1;Q9UJU3;Q68DY9;Q

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8357 Pathogen[ Q85601] interacts with 871 human partners: {Q53EQ6;Q9UQR1;Q9HCZ1;Q8N8C0;Q9Y534;Q5SVZ6;Q6R2W3;Q9ULM2;Q9HCG1;A6NNJ1;Q3KNS6;Q92618;P18146;Q494X3;O75373;Q8N1G0;P08048;O95625;Q7Z6E9;Q6NX45;Q8N151;O60225;Q9BUL9;Q15637;P17097;P51786;Q969J2;Q8N9K5;Q32M78;P28698;Q8IZC7;Q9BRR8;Q92664;P15621;Q63HK3;Q96JM3;P49756;P09234;P0CG00;P51815;P36954;Q6ZR52;Q9NQX6;Q13064;P08151;Q6PEW1;Q86W11;Q8NA42;Q9Y2T7;Q14929;Q8TF39;Q9HBT8;Q9UPG8;Q9P1U0;O60481;Q14593;P62633;P17040;Q6ZN11;Q2VY69;Q3MJ62;Q8N720;Q86XU0;Q96SZ4;Q9UNY5;Q14586;O15535;Q9NPA5;Q9UJW8;Q9BT49;Q8NBB4;Q9NQV7;Q9H8M2;Q96JB3;A6NHJ4;Q96PK6;Q9UJL3;Q13127;P14373;Q9H707;Q2M3X9;Q8N1G2;Q96MX3;Q6V9R5;Q5EBL2;C9JN71;O75928;Q8N3Z6;Q7Z340;Q9HCI6;Q6ZN17;Q8WV37;Q96SR6;Q5JNZ3;Q96ND8;Q6PG37;Q9H0S4;O43390;Q96K62;Q96EK4;P14868;Q92917;Q5TYW1;A6NFI3;Q9UC07;Q96CS4;P17028;P51522;Q8N7M2;Q969W8;Q9NUA8;Q8TDD2;A6NK75;P0CB33;Q9P2K5;Q9ULD5;P21506;Q96AH0;Q12901;P56270;Q9H8G1;Q3SXZ3;Q8IYD8;Q9UL59;Q7L945;Q9C0G0;Q16384;Q13243;P17019;Q96NG8;Q9HCK5;Q5HY98;Q6B0B8;Q969S2;Q6P1L6;Q8N8L2;Q6ZN57;Q96BR6;Q6ZMS7;Q96HQ0;Q96JM2;P86452;P13682;Q9UGR2;Q3L8U1;Q86VM9;Q6JF6;P17032;Q6PF04;Q9UL58;P17036;Q6DD87;Q9HCL3;Q9HCK1;Q9Y2L8;Q9P2D1;Q8W38;Q16531;Q01130;Q8TAQ5;Q02386;Q86Y8;Q9BYN7;Q8NAP3;O60506;Q14240;Q9HBT7;Q5FWF6;Q8IYN0;Q7Z398;P17020;Q969V6;Q96BV0;Q13360;Q9H7S9;B4DXR9;Q9H5L6;P38935;Q96LX8;Q12798;B1APH4;O60290;Q8TD23;Q8N8J6;Q13310;P23588;A8MWA4;Q9BR84;Q6ZNG0;Q9Y2Y9;Q9P2N5;Q14103;Q14966;Q13148;P15622;Q96H40;Q2M3W8;O95391;Q13888;O60315;Q14587;A2RRD8;Q8NHY6;P17027;A8MUV8;Q9NR11;Q8N684;Q9Y6X2;Q03936;Q08AG5;Q9Y2Y1;Q9H116;Q2M1K9;Q86SE8;Q6ZN79;Q15424;Q9NWS9;Q8N680;Q7RTT3;P15822;Q07352;Q9UL18;A8MVS1;Q14872;Q8NDW4;Q9UKN5;Q6NSZ9;Q9UDV6;Q13129;O14978;Q03112;P17030;P79522;P52740;Q8NFT6;Q6ZMY9;Q8TF20;P30622;Q9BUG6;Q9Y2Y4;O95789;P22626;Q9NR83;O15015;Q9H609;O75437;Q13106;Q9UL41;Q9Y2X9;Q9UHX1;Q86WZ6;Q6NUN9;Q9UJW7;Q15287;Q9BS31;B4DU55;Q8IVP9;O00148;O14709;Q96SQ5;Q6ZNG1;Q3KP31;O75534;Q09FC8;Q86V71;Q52M93;Q96H86;P17026;P17022;Q8N5A5;Q9ULH7;Q7Z2W4;Q8TAW3;Q96KR1;Q9UMR2;Q9HOM5;P52744;Q2M218;Q7L2E3;P25490;Q8IZ26;Q6ZN55;Q9Y5N5;Q8N895;Q9B82;Q96NG5;P0C7X2;Q9UKN5;Q2QGD7;O75792;Q8IX12;Q8NDP4;Q86XN6;Q9UIV1;Q14588;P08621;Q9UII5;Q7Z2F6;Q96QE5;Q9H4T2;Q96JC4;Q9BQ15;Q8TBZ8;Q8WXF1;Q14592;Q9UBU7;A6NK53;Q9NQZ8;Q14591;P58317;Q9C0F3;P47974;Q8TF32;Q15046;Q15776;A8AMQ14;O15226;Q3MIS6;Q3KQV3;O75290;Q9NR56;Q96SE7;B4DX44;Q86V81;P19338;Q9P2F9;O43776;O14646;Q9Y3M9;P17038;Q9P255;Q9BUJ2;A6NM28;P55795;O75494;Q6PK81;P07199;Q6ZN06;P17031;Q8IYW8;P17014;Q96MU6;Q8N2W9;Q5T1R4;P10074;P18615;Q8NEP9;Q9NV72;Q49A33;Q9UJN7;Q92499;Q15560;Q92698;Q9UFF9;A6NEJ1;Q7KZF4;Q9HAH1;Q16385;Q08AN1;Q9NZV7;Q16629;Q03923;P52736;Q8N823;P17024;P17017;Q08211;O60304;Q9Y2D9;P59923;Q8N2I2;Q13398;Q53G13;Q9UK11;Q07955;Q86UD4;P17010;P49711;Q9UID6;O43345;Q9UIH9;Q8TAF7;Q8N184;Q9BSV6;Q9BUY5;Q8TF47;Q9UJL9;Q504Q3;P27694;Q8IYI8;Q9NYW8;Q96FI4;A8MXY4;Q9UBB9;O95125;O75607;Q66K41;Q499Z4;O15504;Q9H7R0;P08047;Q9HC78;Q8IZH2;Q8N9F8;Q6IQ21;O75152;O95201;P82979;Q96D70;Q5VIY5;Q92889;P38919;P51531;P26651;Q16587;Q05481;Q8NG50;Q68DI1;P52746;O15060;Q14526;O75820;Q8NEA6;Q3ZCX4;Q9Y6R6;Q8TF50;P0CJ79;Q9GZX5;O43361;Q9NW07;Q9BY77;P36508;Q8TC21;Q6PJT7;Q7Z3K3;P35637;Q9UK12;P11940;Q9NX65;Q8NDQ6;P51508;Q9UK13;Q9Y6M1;Q6ZN08;Q14151;Q9GZU2;Q8NBF1;Q30468;Q969S3;Q8N1W2;Q9NQX1;P51532;Q9NVV9;A6NGD5;Q9H9G7;Q8WTZ3;A6NJL1;Q13435;Q9NP33;Q8NEK5;Q8N4W9;Q92785;Q96N38;Q8N587;P52742;Q02930;Q16600;Q9Y5A6;Q8NDT2;Q9P0T4;Q9H7R5;Q5JUW0;P17098;Q96MN9;Q9P0L1;Q8NB42;P54098;Q9UL36;Q15928;Q5TAX3;Q96MR9;Q6P9A3;Q5MCW4;Q9UKV3;P15927;Q96N20;Q9UKJ3;P0CH99;Q9BRR0;A2A288;Q9UM63;Q9UBL0;P16415;Q4W5G0;Q9H7X3;Q96N22;Q96BK5;Q9Y2G7;Q9UL40;Q9UDV7;Q13838;Q03924;Q9Y2A4;Q96CX3;Q9NVP1;Q8N859;Q12873;O60765;Q92804;Q9P2J8;O95780;P52738;Q147U1;O95628;Q9NZL3;Q8IYL2;O95453;Q9H668;Q12973;P98169;A6NDY2;P52597;Q96T92;Q08ER8;Q76FK4;Q5SVQ8;Q9UHI6;Q9H6B1;Q6NZY4;Q96N58;E7ETH6;P62269;Q9NXT0;Q17R26;Q10570;Q9Y2V2;Q9H4L7;Q7Z3V5;Q5JVG2;Q9NUU7;Q5T5D7;Q6P3V2;Q8N7Q3;Q96NJ6;Q8IYX0;Q8TA86;Q14585;Q9HA38;Q0VGE8;Q96LW1;O14771;Q96GC6;Q86XF7;Q6ZT77;Q96N95;O75346;Q9BYX4;O60281;Q96GM8;Q01081;P17029;Q6ZRS2;Q9H2P0;Q99909;A6NP11;Q15929;Q05519;Q8NEM1;P35789;Q6ZNA1;P67809;Q8IX07;Q14590;Q6U7Q0;Q9UC06;Q99612;Q9H5H4;Q8N883;O00425;Q6ZRF7;Q9Y462;Q8NCA9;P06748;Q7Z7K2;Q96I59;P17023;Q96NI8;Q96F45;P60842;O43829;P0CI00;Q8TD17;Q9UKV8;Q9GZR2;Q9UDW3;Q96SK3;Q9ULG1;Q3SY52;Q4V348;Q96NJ3;C9JBD0;O43830;Q8TA94;Q86T29;Q13118;Q8N9Z0;Q3ZCT1;Q5HYK9;Q8N5L8;O60384;Q96EG3;Q8IVC4;Q96T58;Q02447;O75132;P23193;Q8NE65;Q96N77;Q68EA5;Q99684;Q8WU90;O43309;Q8TF68;Q8N5P1;P17544;Q9HBD4;P84103;Q05516;Q6ZS27;Q9NTW7;Q9H9L3;Q7L2R6;P26196;P51504;Q9BQA5;O95376;Q6ZN19;Q6ZN01;Q0D2J5;Q6ZSS3;Q15233;Q7RTT5;Q9HCK8;Q14584;Q8TF45;P10072;Q9C0D7;P14866;Q6ZQV5;Q8TB69;Q96RE9;O43296;Q15937;O95639;Q49AA0;Q96QC0;Q8N782;P0C7V5;Q6ZSB9;P37275;Q9UK10;Q8IYB9;Q86TJ5;Q5EBM4;Q9NPC7;Q9Y2H8;Q5VTD9;A8MT65;Q00839;P18583;P52737;Q8N8Z8;Q7Z6K1;Q9Y2P0;Q96MW7;Q6P9G9;Q8IW36;Q13156;Q9BRH9;Q06732;Q86TG7;P28370;Q6ZMW2;Q6PI48;A6NDX5;Q96T37;Q9BSK1;P0CG31;Q8NA92;Q8N972;Q7RTT6;O94892;Q7L3S4;Q92670;O96006;Q96C00;A8MTY0;O75764;Q9UFB7;Q66K89;Q6ECI4;Q5T619;Q8TD26;O75362;O75626;Q96NL3;A6NKCO;P52298;Q96JL9;Q96IT1;Q96SL8;Q9Y473;Q9P243;O60930;Q8NB50;P38159;A6NNF4;P17025;Q6P280;Q8NCC2;P24278;Q7Z3I7;Q7Z7J5;O60224;Q9NSC2;Q15696;Q86UQ0;Q96C28;P23246;P26368;P15336;P51814;Q8N3J9;P41182;A8MUZ8;P57071;A6NE21;Q15697;Q5CZA5;Q14119;Q9UJU3;Q9Y2P7;O75467;O60264;Q9Y6Q3;P51523;Q5SXM1;Q6PDB4;Q8N8E2;Q6AZW8;Q96K80;P19447;Q14527;Q76KX8;A6NN14;Q6IV72;Q68DY9;Q9H963;Q5T200;Q7Z7L9;A8K8V0;Q8N141;Q9UIE0;Q5VUA4;Q86U42;Q6ZMV8;Q96I27;Q8NCK3;Q9BS34;P31943;Q8TBZ5;Q9BSG1;Q15935;O75123;P0C7X

8358

5;B2RFX5;Q9BV97;Q9H9Z2;Q6AW86;O14628;P0CG24;Q8N0Y2;Q96PQ6;Q9NSJ1;Q8WTR7;Q86UE3;O75925;P16989;Q9BSN8;Q8WXB4;O75564;Q06730;Q7RTV3;O75391;Q8TBC5;Q9BY31;Q14498;Q8NC26;Q6NX49;P11161;Q5TEC3;Q86Y25;O43167;Q99676;Q9NU63;Q9UEG4;O75821;Q96PE6;Q9UNY4;Q9BWM5;Q8WTV1;P46100;P52743;Q96K75;Q15072;Q13105;P52747;Q13887;Q9UKT9;Q96PM9;P17035;Q8TAU3;Q9NSD4;P33240;Q5JVG8;Q01844;P98182;Q8N7K0;Q86YF9;P17039;Q12874;Q6P2D0;Q8N393;Q9HCX3;Q6ZNH5;Q9Y5S9;Q6P9A1;Q14839;Q8NCE0;Q5VZF2;Q86UP8;P12956;Q96LW9;Q9ULV3;Q16670;P10073;Q9Y2Q1;Q68DY1;P49910;Q8N988;Q9NYT6;Q9NS91;Q9HBE1;P52741;Q96IR2;Q8N3C0;P17021;Q12986;P98168;P0CJ78;P41208;Q96GE5;Q5F1R6;Q9HAZ2;Q9H9D4;Q96K58;Q03938;Q93062;P17041;Q9H2U1}

Pathogen[ P14079] interacts with 972 human partners: {Q969J2;Q15637;Q15916;Q9BWM5;P98168;O60225;P07199;Q8IYX0;Q8NHY6;Q9NV72;Q92664;Q14585;Q6AW86;P15622;P52738;Q96C00;Q9UJN7;Q9UQR1;Q0D2J5;Q96CS4;Q8NA92;Q9UK12;Q9NSD4;Q15560;Q8N2W9;Q9HBT8;P52741;Q12986;A6NNJ1;Q8IZC7;Q9H668;Q9NQX1;Q3SY52;Q8IV48;P51504;Q8N9Z0;Q8N895;Q8N9Q2;P17098;Q8IX12;P08151;O75123;Q9NXP7;Q9HAZ2;O75467;Q68DY9;Q9UL40;O95628;Q9H7R0;Q9UKV8;Q06730;Q9BQ15;Q53GI3;O75346;Q9HBT7;Q8TAT5;Q9Y3B8;Q96I25;Q96JB3;Q8WV9;Q15287;Q5MCW4;Q9H0S4;A8MTY0;P52742;Q8TD23;Q5HYK9;Q96IR2;Q8WTR7;Q9UL36;P60842;A6NEJ1;Q8TBK6;Q8N8L2;P0CG31;Q96EV2;Q5T1R4;Q9ULG1;Q15056;A8K8V0;Q9UDV6;Q8WXB4;Q9Y2Y4;P14373;Q96LW1;Q9UC06;Q96T37;Q9Y2G7;O95125;Q7Z340;Q9UK13;Q8NDQ6;Q8NDP4;Q9BYX4;P0C7V5;P10072;Q8N141;Q9UL18;Q9BTE6;Q96K62;Q9UJW7;Q96H86;P21506;Q9NQV6;Q13106;Q7Z7K2;O14771;Q9Y6Q3;Q9H9G7;C9JBD0;Q49AG3;Q8TF50;Q96MU6;Q96QC0;P10073;Q7Z7L9;O75821;P35637;Q5VZF2;Q6NT04;Q9H8M2;Q9ULV3;O43422;Q9UNY5;A6NK53;Q9UL59;Q8N587;Q6ZNA1;Q92917;Q8N9F8;Q75437;P52747;O75928;Q15776;Q6ZNG9;Q13118;Q86UQ0;Q6ZNG0;Q13148;P08048;P17019;Q96ZMY9;Q9Y3A4;O60481;Q7Z2W4;Q3ZCX4;Q6ZT77;O15535;Q9UPR6;Q9GZU2;A6NIJ5;Q9Y6X2;Q9HCG1;P17035;Q9Y5N5;Q9Y2P0;O75626;Q9C0B9;Q9Y2Y9;Q6P9G9;Q8TA94;O43309;Q15911;O75362;P17010;Q9HCI6;Q9Y2Q1;P0CB33;Q9BR84;Q14103;P67809;Q8IYD8;P47974;Q8N782;Q9NUA8;Q7Z6K1;O95789;Q5SVZ6;Q9UFB7;Q7RTT3;P17022;P82979;Q9H0M5;Q3KP31;P17041;O60290;Q8N393;Q5TEC3;Q5T0B9;Q99676;A8MT65;Q8NCP5;Q9AN1;Q8NB42;Q14151;Q2QGD7;Q10570;Q32M78;Q6PDB4;Q9UNY4;P17039;P52298;Q5EBM4;A6NKC0;Q9HCK1;Q92804;P0CH99;Q6NUN9;P51522;Q9ULM2;Q5JVG8;Q96I76;A6NHJ4;Q12874;P28370;Q9NTW7;O75290;Q9P2Y4;P52746;Q7L2E3;Q6ZNS7;Q9NVV9;O75792;O75564;Q13129;Q9H4L7;Q13243;Q8N1G2;Q63HK3;Q9HCK5;Q9Y5S9;Q7Z3K3;Q6ZR52;Q16531;Q8NG50;Q6PJT7;A6NNH2;Q9BUJ2;Q9UL41;Q6NZY4;Q8NEK5;Q8N5A5;Q8IYB9;Q9H707;Q96SR6;Q96PM9;P33240;Q9BSV6;P52737;P35789;P51815;Q86VZ6;Q14591;Q6ZR7;Q7RTB8;P51532;Q8NCA9;A8MUV8;P17024;Q9P255;Q14592;Q9GZX5;Q7Z4G4;Q3MJ62;P26369;Q9H5L6;Q9NSJ1;Q96NG8;O14646;Q6ZN79;Q99684;Q96N20;Q6PEW1;Q9UID6;Q93062;Q68DI1;Q92698;Q8N0Y2;Q8N720;Q14966;Q9H7X3;P51531;Q96SE7;O94919;Q5VLY5;O43167;P14866;P14868;Q5T200;Q05516;P23246;P07910;P0CG23;Q5T3I0;Q9Y5A6;Q13310;Q9NRR9;Q13838;Q9GZR2;Q96KX8;Q96D70;Q9BWE0;Q02447;Q13105;Q5T5D7;Q3MIS6;Q9BYN7;Q6ZRS2;Q8NC26;Q92785;Q9NR83;Q9P2J8;Q92679;Q9Y2T7;Q9639;O60281;Q8N859;Q9UK11;Q8N7M2;Q96K83;Q13472;Q6PG37;Q8N883;Q03923;Q96NI8;Q9H2P0;Q96ZM57;Q8IYI8;Q06732;Q5SVQ8;O43829;P18615;Q96MR9;Q6ZN55;Q6P2D0;Q9Y2P7;Q96NL3;Q8NCE0;Q3SXZ3;Q9UI6;Q14240;A6NGD5;Q96SZ4;Q96RE9;Q9BQA5;Q8WY91;Q96NG5;Q9P215;Q7L3S4;Q9NR56;O43830;Q96LX8;Q13156;Q14498;Q16600;O43298;P79522;Q8TBC5;Q969V6;Q15427;Q08211;Q7RTT4;Q9H9Z2;Q16385;Q9NYW8;Q9NU63;Q9UHX1;Q96AH0;O95453;Q96JM2;Q96JC4;Q6ZN06;Q86TJ5;P52744;P957071;Q8IY8;Q14249;Q9NQZ8;Q3KQV3;Q9NQ94;P17027;Q6EKJ0;Q00839;Q9BY77;O94892;Q15032;Q99612;Q16670;Q15072;O60315;Q49AA0;Q9BQ50;Q03938;Q96MN9;Q12873;Q8TF32;A6NDY2;Q9BV97;Q14588;A6NP11;Q86V71;Q3KNS6;Q6BEB4;P23588;P0CF97;P0C7W9;Q96ND8;P46100;Q9NWS9;P0CI00;Q9BRR0;P51814;O43776;P43243;A8MUZ8;P28698;Q8TF68;Q96GE5;Q96BV0;Q9UL58;P0C7X2;Q8TCN5;Q96JF6;Q9ULD5;Q9UC07;Q8NBB4;P19338;O15504;Q9UBL0;Q6V9R5;Q8WU90;Q8N1G1;Q8TAW3;Q92670;Q16629;Q9Y2T7;Q9P2D1;Q8TD26;Q13888;Q15929;O15060;Q86Y25;P26599;Q6ZN19;Q5VV52;B4DU55;Q96MW7;Q9NZL3;P55795;O75152;P12956;Q9Y534;Q03924;Q8NCN2;Q96N22;P41182;Q7Z6E9;Q86UE3;Q8NAP3;Q8IZH2;P10074;Q9UP68;Q96CX3;Q3ZCT1;P17097;Q86UP8;Q5TAX3;Q9P1U0;P58317;Q96EG3;Q8WYQ9;P49756;Q9Y3T6;A6NK75;Q9P2F9;Q03936;Q147U1;Q08ER8;Q8TA86;Q9BX82;Q9NXT0;Q9H6T0;Q15046;Q8TF39;O75373;Q9Y3Z3;O75764;Q5VTD9;Q9NP64;B1APH4;Q05481;P17026;P16989;Q9UIH9;A6NN14;Q9HCE3;P11161;Q08AG5;Q96K75;Q86YE8;Q8N972;Q9UKV3;Q9H963;Q6DD87;Q9ULH7;P17544;Q9HJC0;Q9P2Z0;Q6ZMV8;Q5SXM1;Q9H4T2;P11940;Q8NCK3;Q8TF20;P17032;P26196;Q02930;Q8N823;Q8N8J6;O14709;Q9NR11;Q6U7Q0;Q05519;Q8N680;Q8WTV3;O60384;Q6P280;Q68EA5;O43345;Q9Y473;P17017;Q9BRR8;P0CG40;Q12798;P08621;P51508;Q16587;P0C7X5;O75820;Q6ZS27;Q2M1K9;Q8N684;C9JN71;Q9H4Z2;O75534;Q66K89;P17031;Q9UEG4;Q9UKJ3;P17029;Q96SK3;P17021;Q6ZTB9;P16415;Q9NYT6;Q9H9L3;Q86WJ1;Q86V81;P15336;Q14593;Q86U42;Q6R2W3;Q96JM3;Q96NC0;Q8IVP9;P0C7W8;Q16384;Q96I59;Q15424;Q96LW9;A6NEW6;P51523;Q15697;Q8N2I2;O00148;Q969S2;P52743;P24278;Q16630;Q9Y3M9;P17020;O14978;Q8WV37;Q9Y4A0;Q9Y6R6;Q4V348;O60506;Q9UK10;Q15696;Q9P243;Q9Y2X9;Q8TF45;Q8NDX6;Q86XU0;Q9UB9;Q9UFF9;Q9UJQ4;P09012;Q8TB69;Q13360;P49910;Q9BUL9;Q9Y6M1;Q8N4W9;Q86W11;Q96FI4;Q9HCK8;P15822;P51786;Q92889;Q5JVG2;Q71RC2;Q8IX07;Q9UJW8;P16415;Q9NYT6;Q2M3X9;Q8TBZ5;Q6P1S2;P56270;O00110;Q8NA42;Q15428;Q8N8U3;Q6ZMW2;Q7Z3V5;Q13351;Q99909;Q96T92;Q92618;Q8NEP9;Q96B70;Q17RP2;Q49A33;Q9Y2Y1;Q7Z7J5;Q2VY69;Q14586;Q96NJ3;Q8NAM6;O60264;Q9HC78;Q8IVC4;Q9C0F3;Q8WTV1;A8MVS1;Q9HA38;Q07955;O43296;Q9NQ03;Q9UDV7;P06748;Q15973;Q9NSU2;Q9UIE0;Q9H0W7;Q6P3V2;Q6P1L6;Q86VK4;Q8NDW4;Q0VGE8;Q8NF99;P98169;P17025;Q13398;Q494X3;Q9Y4X4;Q9S34;Q7RTV2;Q8WVK2;Q96SL8;Q5VUA4;Q86UD4;P17038;Q6ECI4;Q8N3J9;Q569K4;Q8N1G0;Q8NA58;Q96JL9;Q86XF7;Q5HY98;A6NDX5;Q6P9A3;Q9UIV1;Q8N3J2;Q9Y2A4;Q86UZ6;Q8N5P1;Q9Y2K1;Q13064;O43361;P41208;Q96EK4;Q9BUY5;Q86TG7;Q9H7R5;Q9HCX3;Q6PK81;Q9BS31;Q14872;Q8TDD2;P15927;P31943;Q6ZSS3;Q14839;O75925;P0CJ78;Q9Y5R4;Q68DY1;Q9NUK0;Q01081;B2RFX5;P35659;B4DX44;P23193;Q9Y5W3;Q5TYW1;Q96PE6;Q96AZ6;Q9BYG3;Q8N554;Q9BSK1;Q86VM9;Q9UII5;Q5HYM9;Q9Y2N5;Q49X44;Q8N5L8;Q96KR1;Q2M218;Q86WZ6;Q96PQ6;Q8IYN0;B4DXR9;Q96MX3;Q9H582;A8MXY4;A8MWA4;Q6AZW8;O15042;Q86YF9;Q7Z2F6;Q96F45;Q5T619;Q8N9K5;Q92499;Q96SQ5;Q96FC9;Q96BK5;Q9HCZ1;Q9Y2H8;P17014;Q96C55;Q15928;Q8IW36;A6NJQ4;Q6ZNH5;Q14590;Q9NPA5;Q14584;Q14011;O75132;Q8N988;O75607;P36508;Q9BRH9;Q03468;Q9H8G1;Q96GM8;Q9NQV7;Q9NZV7;P38935;Q9HAH1;P52597;P62633;Q43390;O15015;Q7KZF4;P02386;Q02386;O15226;Q8IZ20;Q96N38;P0CG00;Q8NEA6;Q8N184;Q9P2N5;Q9NPC7;Q96K58;O95201;Q9NWB1;Q9H7S9;Q5EBL2;A2A288;Q96BR6;Q6PF04;Q9BUG6;O00425;Q9C0G0;P54098;Q6B0B8;Q499Z4;Q7L945;P17040;P98182;Q9GZV8;Q8TD17;Q9UKN5;Q9Y2L8;Q9BT49;O95600;P49588;Q14929;Q

96N77;Q12901;Q96K80;Q6NX45;P13682;Q86XN6;A6NJL1;Q9BSG1;Q8N1W2;P15621;Q9H609;Q9UUJ3;Q5F1R6;O60930;Q6PI48;Q13127;Q52M93;Q6ZQV5;Q6ZNG1;Q96DT7;Q96IT1;P25490;Q9UM63;A6NE21;P52756;Q8IYL2;Q2M3W8;O75494;Q5JUW0;Q15233;P52740;Q9UDW3;Q7Z3I7;Q96HQ0;A6NFI3;O14901;Q8NB50;P52736;Q9NVV1;Q6P9A1;Q15935;Q9NX65;O95780;P62269;Q86YD7;Q6ZMS4;P18583;P36954;O96006;P17030;Q9H5H4;Q504Q3;P86452;O60765;Q8N8C0;Q15940;Q9NW07;Q8NE65;P10075;Q8N7Q3;O95625;Q96H40;P0CG24;Q96S3;Q9NQX6;Q9BZE0;Q92615;Q4W5G0;Q9HBE1;Q9H9D4;Q8N3Z6;Q8NDT2;Q5FWF6;Q96C10;P49711;Q96N95;Q8TC21;O60304;Q96PK6;P17023;Q6ZLN17;Q969W8;Q9Y2V2;Q9Y462;Q8NFT6;Q9BY31;Q8IY51;Q8WW38;Q9HCL3;Q8TAU3;P37275;Q8NEM1;Q07352;P19447;Q3SY56;Q9UGR2;O95391;Q9BU19;B7Z6K7;Q9UBU7;A8MQ14;P0C7X0;Q14587;Q6ZSB9;Q09FC8;P31483;O14628;Q9NSC2;P22626;Q8N7K0;Q8N8E2;Q8NI51;Q6IV72;Q8NBF1;A6NM28;Q96N58;P84103;Q9ULJ3;Q7Z398;Q96NJ6;Q8IWZ8;Q02446;O60224;Q8TF47;Q9Y2K5;P30622;P38159;Q8IZ26;Q5CZA5;Q96I27;Q9H116;Q9UKT9;Q6IQ21;Q6NX49;Q3L8U1;Q8NDV7;Q96GC6;Q96T58;Q9UJL9;Q5JNZ3;Q6ZLN11;Q53EQ6;Q8NAF0;Q9Y2D9;Q14119;P17028;Q9COD7;Q8TAQ5;P55884;Q8TAF7;P0CJ79;E7ETH6;Q96C28;Q66K41;Q86T29;Q6NSZ9;Q8WTP8;Q17R26;Q9H6B1;O75391}

8359 Pathogen[ P03383] interacts with 543 human

partners: {Q969W8;Q96LX8;Q9UQR1;Q7Z7J5;O14628;O15504;O43167;Q9H7R0;Q8WTZ3;Q8NI51;Q5FWF6;Q5JVG8;A6NNF4;P16989;Q15935;Q07955;Q8NBB4;O75925;Q9NYW8;Q63HK3;Q8TA86;Q96BR6;Q15287;O95625;Q96SK3;Q14839;O75534;Q6ZN08;Q6PJT7;Q96SZ4;Q9HBD4;Q9BSG1;Q5SVZ6;O75494;Q9UK10;A6NK75;P08047;P06748;Q9BR84;Q9NZV7;Q9H7R5;Q9Y2P7;P14868;Q7Z6K1;Q9H0S4;O43390;Q49A33;Q9H9Z2;P17544;P56270;P19338;Q9NP64;Q9HBE1;Q9UL18;O60765;Q8WTV1;A8MVS1;Q9H8G1;Q9UNP9;Q15MWA4;P49711;P17022;P22626;Q86V71;Q96GE5;Q9H5H4;Q96SL8;P14866;Q5HY98;Q3KP31;Q15937;Q81072;Q14526;P17029;P0CG00;Q9H4T2;O75792;Q9HCL3;Q8WW38;O75437;A8MXY4;Q12986;Q13838;Q96N18;Q13888;O96006;Q9Y5S9;Q92670;O75362;P51815;P23193;Q8N7M2;Q9BRR0;Q13360;P27694;A8MTY0;P55795;Q8TD23;Q05481;Q9Y2Y9;Q96H40;Q2M3W8;Q8N4W9;O60290;Q6ZLN06;Q6ECI4;Q6P3V2;Q9NR56;Q9UK13;P51508;P41208;Q9BYN7;Q8IYL2;Q8N3J9;Q6ZLN17;P52744;P28370;B4DX44;Q8NEP9;Q10570;Q5CZA5;Q8TF20;Q76KX8;Q92841;Q9UHI6;P37275;Q8NDQ6;Q96N77;Q9UL58;Q96BK5;O14709;Q3MJ62;Q8NCE0;P38919;Q12798;Q96KR1;Q86TG7;Q12901;Q9C0F3;P35789;Q9UFF9;Q12874;O14646;P26368;Q13243;Q9HCK5;Q8NA42;Q6P9G9;P17019;Q6IQ21;Q96N20;Q9Y2Q1;Q8WXF1;Q96N95;P26196;Q03923;Q8N988;P11940;P31943;Q3MIS6;Q96SE7;Q969V6;Q86XF7;Q05516;P28698;Q9GZX5;Q8TB69;Q07352;Q86V81;P0C7X2;Q9P0L1;P17038;Q13435;Q5T200;P15621;A6NK53;Q86Y88;Q8WV37;Q9HAH1;Q8N2W9;Q6NZY4;P51504;Q8N587;Q6ZR52;Q96EK4;Q13064;Q15560;P59923;P17098;Q9NQX1;B4DU51;Q6NSZ9;P0CI00;Q16385;P18146;Q9NTW7;Q13398;Q66K89;Q53GI3;Q9UK11;Q9Y2T7;P38159;A2A288;Q49AA0;Q8TAF7;Q8IYI8;Q14872;Q9UKJ3;Q9Y2L8;O95628;Q16629;P17014;Q14588;Q7Z3V5;Q5TAX3;Q96LW9;A8MUV8;A8K8V0;Q8TF47;O95201;Q96D70;Q9HAZ2;Q9HCG1;P52746;Q499Z4;A6NDX5;Q7L2R6;Q9BTE6;P46100;Q8N684;P23588;Q5VUA4;Q6ZNA1;Q03112;O14978;O15015;Q12873;Q9BSV6;Q8IYX0;Q8NB50;P15927;P86452;O75607;Q9H963;Q96MR9;Q9UHX1;P98168;B4DXR9;Q8N895;P52747;P33240;Q15928;Q96PK6;Q9NVV9;P18583;A6NGD5;Q96ND8;Q9UDV6;Q53EQ6;P84103;Q9UID6;A6NJL1;Q8NEM1;Q9NV72;Q5JNZ3;Q96N38;P17010;Q9UNY5;Q32M78;Q9H6T0;Q96MN9;Q02447;P54098;Q8N3Z6;Q7RTT5;Q13105;O95125;Q08AN1;P35637;Q9UKV3;Q03468;Q01130;Q8WVV9;Q2GZU2;Q9BQA5;P17040;O75290;Q96I59;P52742;P17032;P0CH99;Q96N22;Q8N859;Q9Y2G7;P17036;P24278;Q96LW1;Q6PG37;O43345;Q9B82;Q7KZF4;Q52M93;A6NHJ4;Q9P2J8;O95780;O60304;Q15046;Q9Y5N5;Q14103;Q7Z3K3;Q9H9L3;Q6ZNG1;Q9ULH7;O95376;Q9NSC2;P52743;P49756;P62269;Q9Y2K5;Q8NF99;Q9Y6X2;O60225;Q9ULJ3;Q6IV72;Q8N5A5;Q15697;Q8N7K0;Q86UE3;Q68DY1;Q9UKN5;P51531;P15822;Q9UIV1;C9JBD0;Q01081;Q5VIV5;Q9BRR8;P10074;P10073;Q6U7Q0;Q96C28;A8MUZ8;Q03936;P82979;Q9Y462;Q15929;Q9H7S9;Q9BY77;Q8NE65;Q96GM8;Q8N8C0;O43829;Q9UKV8;Q96IT1;Q3ZCT1;Q8N9Z0;Q8N972;Q8IX12;Q8TF32;Q68EA5;Q96T58;Q96684;Q8WVK2;P26651;P52298;P52737;Q96IR2;A6NN14;Q6ZMS7;P09012;Q5SVQ8;Q16670;A6NP11;Q3L8U1;Q9H116;Q96GC6;Q9H9D4;O15535;Q9HCK8;P62633;Q494X3;Q86XN6;Q9UC06;P11161;Q05519;Q8N0Y2;Q5HYK9;Q96QC0;Q8N782;P0C7V5;Q9BUJ2;Q5TEC3;Q86YF9;Q6P280;Q6ZMY9;O43309;Q9HBT7;Q96NJ6;Q8NAP3;A8MT65;Q09FC8;Q9P255;Q99909;Q8IYW8;Q9UII5;P51522;Q7RTV3;P49910;Q9Y2D9;Q8IW36;O43776;Q8WTR7;Q9BUN9;O60930;P51532;Q96SR6;Q6PI48;Q9UKT9;O14771;Q8NDT2;P52736;Q7RTT6;Q15233;Q9UM63;Q13310;P38935;Q9Y5A6;P07199;Q6R2W3;Q8IYN0;Q14151;Q92785;O00425;Q99676;B1APH4;C9JN71;Q9UC07;P23246;P51786;Q969J2;Q16531;Q13148;Q9UBB9;Q8TAQ5;Q8WU90;Q15424;Q9Y2X9;O75152;Q13156;O75132;Q66K41;P15336;Q92499;Q2M1K9;O60481;Q01844;Q9Y534;Q9NZL3;Q15776;Q5SXM1;Q9BUL9;Q9Y2A4;Q02930;Q08ER8;Q6ZLN0;Q9Y2V2;Q86W11;Q08AG5;Q2QGD7;O95453;Q86U42;Q9UL41;Q14585;P51523;Q96AH0;Q8N5L8;Q8N720;Q6ZLN79;Q8N7Q3;Q8N141;Q8TA94;P17028;P67809;Q9UL40;Q15637;Q96PQ6;Q9NSJ1;P09234;Q9BUY5;Q6P9A1;Q8WXB4;O75564;O75391;Q92917;Q00839;Q8NC26;P08621;Q6V9R5;O75346;Q9BT49;Q9UNY4;O75821;P52597;Q16384;Q9UBL0;O95391;Q8NHY6;P16415;Q9Y6R6;P18615;Q9Y473;O15226;Q9BUG6;P98182;Q9H9G7;Q6ZMV8;Q8N823;Q96QE5;Q8TF39;Q8N1G2;Q2VY69;P13682;P12956;Q13127;Q9ULV3;Q6ZQV5;O00148;Q96NG5;Q14593;Q9P0T4;Q969S3;P52741;Q8NB42;Q7Z2W4;P0CB33;O75928;Q14498;Q03938;Q93062;Q8IYB9;Q13129}

8360 Pathogen[ P03410] interacts with 970 human

partners: {Q9NSD4;Q96EG3;Q9Y2P7;Q8N9Q2;Q9HCG1;Q7RTT6;Q96NI8;A8K8V0;Q6AW86;Q5CZA5;Q9H0M5;Q13838;Q9BWE0;P08048;O14771;Q92917;Q9Y2L8;Q9HC78;Q8N1W2;Q96JB3;O60224;Q6ZNG0;O14901;Q6ZNA1;P17031;Q5HY98;Q5SVZ6;O43309;Q6ECI4;Q96RE9;Q86SE8;Q6V9R5;Q5JVG2;Q71RC2;O60281;Q8NBF1;Q8N5L8;Q14588;Q96BR6;Q5EBM4;O75290;B2RXP5;Q9BYN7;Q5JNZ3;P23246;Q8TAU3;Q8IYN0;Q9NYW8;P0C7V5;Q00839;Q15427;Q8WTP8;Q96FI4;Q9UBL0;O75925;Q12873;P0C7X5;Q9UDW3;Q9HAH1;Q6ZLN01;Q5T619;Q9UL41;Q01081;Q03112;Q6ZMY9;A6NNJ1;O95639;A6NN14;Q32M78;E7ETH6;Q9UNY4;Q9NP64;Q9Y2Y9;Q13106;Q8N9Z0;Q8NDW4;Q9NZL3;Q8WY91;Q9UFF9;Q9UDV7;Q14593;Q14526;Q9GZR2;P26368;Q10570;Q9UK13;Q9Y3B8;Q8N8E2;Q96N58;Q2M3W8;Q8N8Z8;Q9H4L7;Q86YD7;Q14103;O96006;P16415;Q96N22;Q13360;A6NE21;Q15697;O15042;Q8IX12;O75373;Q96PK6;O95780;Q5VUA4;Q86VM9;P0CJ79;Q8N7Q3;Q14929;Q8TF68;Q9Y534;Q9BTE6;Q9UKV8;Q8N3C0;P0CH99;P17040;O95628;Q8TCN5;P30622;Q96QC0;Q96H86;P15621;P18615;Q9NPA5;P37275;Q15637;Q93062;P36954;P13682;Q96JM3;Q9H4T2;Q8N587;Q9UL59;P36508;P58317;Q96C28;Q8N7M2;Q96N38;Q9BRH9;Q86XF7;Q15696;Q3MJ62;P98169;A6NDX5;Q8WTR7;Q8WTR7;Q96CS4;Q82804;Q9Y3A4;Q8IV48;Q9UDV6;Q9NWB1;Q9HAZ2;Q9676;Q9BQ15;Q9NVV9;P15822;Q9H7R0;Q96K80;P52738;Q9HBT8;Q92698;Q16629;Q15973;P52740;Q8IYD8;Q9NV72;Q76KX8;Q5T0B9;Q66K89;Q96SZ4;Q9BQ50;P22626;P98182;Q8TDD2;Q15233;Q8N680;P11940;Q9H9D4;Q96SQ

5;Q96JL9;Q02447;P16989;Q9NVP1;Q9BUJ2;Q6PJT7;Q9C0D7;Q16600;O95125;O60481;Q06730;Q92670;O15060;Q9BSG1;Q569K4;Q17RP2;Q8N8C0;P0CG23;Q6AZW8;Q6ZMW2;Q6P3V2;Q15287;Q9UC06;Q9UII5;A6NFI3;Q15776;Q8NB50;Q9C0G0;Q9Y6Q3;Q9ULH7;P10073;Q9UL18;Q0D2J5;Q9BQA5;Q9GZU2;Q3ZCX4;Q6NZY4;Q8TAW3;Q9NQX6;Q8N4W9;Q8N3J2;Q5TAX3;Q96KR1;Q8TAQ5;A8MXZ1;Q15393;Q8TD17;Q8N3J9;Q3KP31;P49588;A6NNH2;Q9Y5S9;Q96N77;Q6PG37;Q8NCN2;Q8N8U3;Q8IYB9;Q9NR11;O14646;Q075152;P35789;Q76FK4;A6NEW6;Q8N9F9;Q8IYX0;Q5VZF2;Q7L2R6;Q96K62;Q96PQ6;O15504;P35637;Q86WZ6;Q9UPG8;O75792;Q6ZNL1;Q9NYT6;Q8NBB4;Q8TF50;P17017;Q8TF45;Q9NRN9;Q8NFT6;Q5VYI5;Q969S3;Q96ND8;Q8IYI8;Q8IW36;P24278;Q53EQ6;Q9HCJ0;Q2M218;Q6P2D0;Q9BYX4;Q08ER8;Q8TF39;Q5FWF6;Q9P2K5;Q9UK11;Q9ULG1;Q17R26;Q8NHP7;A8MT65;P62269;Q8NG50;Q8NDV7;Q7Z4G4;A6NHJ4;Q9ULJ3;Q5HYM0;P0CB33;Q9NXT0;Q9BU19;Q9Y6X2;Q96JM2;O00148;Q6LX8;Q9NR56;Q9UIH9;Q86XU0;O43776;Q2VY69;Q9H4Z2;Q6IQ21;Q9HCI6;Q96GC6;O75928;Q9HCK1;Q9NPC7;Q96T37;Q86UQ0;O43830;Q9C0F3;Q2M1K9;Q9NZV7;P57071;Q0VGE8;Q9H963;Q96N95;Q6NSZ9;Q9Y2K1;A2A288;O75437;Q6ZSB9;Q8N2W9;Q9UL58;O14709;Q9H668;Q12798;P26599;Q96K75;Q9Y2V2;Q92785;Q8N720;P52741;Q92889;P82979;Q6NX45;Q9UJL9;Q9NSJ1;Q6PF04;Q9BT49;O75764;O94892;Q9UBB9;P06748;Q9Y3M9;Q5F1R6;A6NM28;Q9H116;Q03923;Q6PK81;Q9P243;Q9HCL3;O00110;Q68DY1;Q9NSU2;P14868;Q9H7X3;Q9H0S4;Q99684;Q9H9G7;Q9UIE0;P23193;Q9NXP7;Q53GI3;Q03468;Q8NB42;O60304;Q6U7Q0;P26651;Q09FC8;Q06732;Q6ZNL9;P17025;Q52M93;Q9UIV1;Q8TAT5;Q9NWS9;Q9BSV6;P0CF97;Q8NEM1;P51523;Q6ZN55;Q6ZT77;Q7Z2F6;Q8IYL2;Q96HQ0;P14866;Q9P2N5;Q96EK4;Q5H9K5;P09012;Q96T58;Q8WW38;P25490;Q96LW1;P52746;Q8WVV9;Q15424;O15226;Q15560;Q6IV72;P17036;Q8TC21;Q9NTW7;P51508;Q3MIS6;Q9H707;Q96SR6;Q5TEC3;B4DXR9;Q8NEP9;Q5JUW0;P17544;Q5SVQ8;Q16670;P35659;O60930;Q5EBL2;Q9H8M2;P17010;Q8NLG0;Q9UQU1;Q96D70;A6NKC0;Q96QE5;Q9GZV8;Q9P226;Q13148;Q14587;Q96PE6;Q15928;Q9BRR0;P08621;P55884;Q8TAF7;Q969V6;Q8N8L2;Q96NG8;Q86T29;Q9ULD5;A8MXJ8;Q8TBK6;Q02930;O95789;Q96MN9;P10072;O15535;O60384;P67809;A8MX19;Q6ZN06;Q96BV0;Q14590;Q9UK10;Q9BUG6;Q8IZH2;Q13127;Q8WXB4;P17022;Q96GE5;Q5SXM1;Q9UKT9;Q15032;Q6ZMS7;Q9Y2X9;Q6ZMS4;Q08AN1;P17029;Q7L3S4;Q8IVP9;Q9UMR2;Q7Z7J5;P12956;Q9C0B9;Q8N823;Q12986;P07910;Q7Z340;Q8TB69;P08579;Q6ZRS2;Q96H40;Q8NEK5;Q7RTT5;Q6R2W3;Q3KQV3;P17098;Q14966;Q13472;Q6B0B8;Q8TBZ5;P38935;P49756;Q86YF9;Q9BWM5;Q6NUN9;Q8IX07;Q05519;A8MWA4;Q9Y2Q1;Q3KNS6;P51814;P10074;Q9UKV3;Q6ZNH5;Q9UL40;Q8WVK2;Q9NQV7;Q9BV97;O95453;P17026;Q9BS31;Q6EKJ0;Q9HCE3;Q02386;Q8NEA6;P0CG31;P43243;Q5T3I0;Q9UK12;P52737;Q96I27;Q7Z398;Q8NA58;Q8N5A5;Q9NUU7;O60225;Q96GM8;Q8N972;Q96B70;Q49AG3;Q4W5G0;Q7Z3I7;Q6ZNV9;Q9P2D1;Q6P9G9;Q9PDB4;Q969W8;P17028;Q8N883;Q49A33;Q8NCK3;Q9UKN5;P17019;Q7Q7955;P52597;Q96C00;Q8NAP3;Q9UNY5;Q03924;O75132;P52298;Q68D99;P17030;O75534;Q9BS34;Q9BUL9;P52743;Q9P0L1;Q96I59;P31943;Q13129;Q92499;Q9ULV3;P52736;A6NGD5;Q9UGR2;P0CI00;Q6NT04;Q7Z2W4;Q6ZXR2;Q96AH0;P51815;A6NKC5;Q15056;Q14872;O75362;Q9UJW8;Q96K83;Q9H5L6;Q5HYK9;Q9BYG3;P17014;C9JN71;P0CG24;P33240;Q68EA5;Q96SE7;Q8N1G2;Q9UBU7;Q8NA42;P79522;Q9UHX1;Q6P280;Q96AZ6;P17024;Q9H609;Q8N7K0;Q5T5D7;Q14119;Q15428;Q9IX06;Q6ZS27;P19447;Q9P215;P17020;Q99909;Q8WXF1;Q13156;Q9BUY5;Q96IR2;Q7L2E3;Q8IZ26;Q969J2;Q8NNDT2;Q9HCK5;Q86V81;Q96MX3;Q9H7R5;Q9BY31;Q9HCK8;Q8NE65;P31483;Q13064;P19338;Q9P1U0;Q147U1;P52272;Q9UM63;Q8N1G1;P0C7W9;Q9BRR8;Q8N5P1;Q96SK3;P21506;Q7RTV3;O43296;Q6P1L6;P18583;P86452;P17032;Q15046;P17027;P47974;Q9NQV6;Q3SY52;Q14585;A8MUV8;Q9GZX5;Q13118;P49910;Q46100;P60842;Q92618;Q86XN6;Q5VV52;P51786;B1APH4;P41182;Q14011;P51532;P0CG00;O15015;Q9HBT7;P38919;P87889;Q13398;Q5JVG8;Q16531;O75346;Q6ZRF7;Q96MR9;A2RRD8;Q9Y2Y1;Q96F45;Q9NW07;P49711;Q9Y6R6;Q6ZTB9;Q9H6B1;Q8N988;Q86WJ1;P09234;Q8NA92;P98168;Q5MCW4;Q86V71;A6NIJ5;O95625;O43422;O14628;Q8NI51;Q7Z7K2;P51531;Q96IT1;B4DX44;Q9ULM2;Q13888;Q8WQ9;Q86TG7;Q01130;Q9Y2Y4;Q8WV37;Q8NC26;Q92664;O75821;A6NJL1;Q9UC07;Q9HA38;Q9H6T0;P63135;Q14586;Q15940;Q3L8U1;Q96C10;Q66K41;Q8NCA9;O00425;Q9P2F9;Q9UJN7;Q9BY77;A6NEJ1;Q14151;P28698;Q7Z7L9;P17035;A8MUZ8;O14978;P59923;Q9Y2H8;P56270;Q9P2J8;Q5TYW1;Q8N684;A8MQ14;Q96NG5;Q7Z3K3;P07199;Q9UNP9;Q2QGD7;Q6ZSS3;Q9H9Z2;Q6ZN08;Q9H8G1;Q7KZF4;Q9Y2P0;Q14498;Q969S2;Q9Y462;Q3SXX3;Q86UE3;P08047;P27694;O60506;Q96FC9;Q9P255;P17039;C9JBD0;Q9UJU3;Q494X3;Q8TBC5;A6NKT2;Q8N9K5;O95201;A6NP11;Q9H7S9;A8MTY0;Q8TF20;Q9NX65;Q16384;Q9NQZ8;P15927;O75626;Q8TF37;Q86UD4;Q63HK3;Q15937;Q96BK5;Q6P9A3;Q5T200;O43829;Q6ZNL7;Q9Y4A0;P0C7X0;O75123;Q8N8J6;Q7RTT4;Q3ZCT1;Q8N782;Q9NUD5;Q96LW9;Q6ZQV5;Q8TF47;P84103;Q12901;Q14584;Q8N141;Q13105;Q49AA0;Q6ZN57;Q8TD26;P0C7W8;Q8TD23;Q15929;P17041;Q16630;O75564;Q86U42;Q8N3Z6;Q6PEW1;Q9Y2T7;Q96MU6;Q9Y3Z3;Q8NCEO;Q96N20;Q6DD87;O60765;Q86YE8;P55795;Q7Z6K1;O60264;Q8NDP4;Q8TA94;Q8IY51;P0C7V4;Q9NSC2;Q9BR84;Q9UID6;Q9Y5N5;Q03936;P18146;Q96K58;P17021;P15622;P62633;P52744;P51522;P17023;O75820;Q8N895;Q5VTD9;Q96JC4;Q8TBZ8;Q13243;Q8TBN3;Q05481;Q8N859;Q9BX82;Q12874;Q9HBD4;Q9Y3T6;Q7L945;Q14592;Q96MW7;Q6P9A1;Q96JF6;Q96CX3;A8MXY4;P38159;P10075;Q96I76;P0C7X2;Q9UJQ4;Q8IWZ8;Q8TA86;Q9UL36;P41208;Q14839;P15336;Q9UEG4;Q9NQX1;P11161;Q9UHI6;Q8N2I2;Q08211;P0CJ78;A8MVS1;Q9NU63;A6NNF4;Q68DI1;P54098;Q504Q3;O43361;Q8NDQ6;Q9Y2D9;B4DU55;Q96SL8;Q9UKJ3;Q13310;O75391;Q4V348;O75467;Q9Y5A6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Pathogen[ P14075] interacts with 502 human partners: {Q3L8U1;Q0D2J5;O95453;Q9NZL3;Q9C0F3;Q494X3;P17029;Q68DY1;Q9NTW7;P82979;Q8NI51;Q9NSC2;P22626;O14646;Q8N1G2;Q8TAQ5;P51815;Q969S3;Q96GM8;Q15929;Q6V9R5;Q7RTT5;O75564;Q05519;P14866;Q8WXF1;P54098;Q9BSV6;O75391;Q9Y5A6;P19338;Q969J2;P35659;A8MTY0;Q96GE5;Q9GZU2;Q5SVZ6;P23246;P12956;Q8N3Z6;B4DXR9;Q8N141;Q13105;Q6ZN08;Q9UKJ3;Q9UM63;Q8N5L8;P51523;Q9HBD4;Q14526;P16989;P52737;P0C7X2;Q9NV72;Q96KR1;Q9UQR1;Q8NEM1;P08621;O75607;Q8WU90;Q8NC26;Q16385;P18615;Q96NJ6;Q2M3W8;Q9HCK5;Q9BQA5;Q14103;Q6ZN01;Q15928;Q86V81;Q13243;Q14593;P23588;P0CI00;A6NHJ4;O60481;P52747;Q96QC0;P49756;Q8NA42;Q14588;Q13064;Q86XF7;Q15697;Q8NB50;O60765;Q8NBB4;Q6ZNG1;Q9Y2A4;P51532;Q6U7Q0;Q9H0S4;Q12901;Q9UNY4;Q8TD23;Q6PJT7;P0CB33;P52736;Q96MR9;P07199;Q15937;Q96SZ4;Q9H9G7;Q9UKN5;Q9UHX1;O95391;P26196;Q9H7R5;Q9H116;Q7L2R6;O75362;Q6NUN9;Q9UID6;Q9Y2G7;P59923;Q96T58;P26651;Q6P9A1;P28698;

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8362

Pathogen[ P0C206] interacts with 969 human

partners: {Q9UID6;Q02386;Q9BUJ2;Q8N9K5;Q5VUA4;Q9NUA8;O43829;Q8N720;P28698;Q6NUN9;Q15072;Q9UNP9;Q13887;Q15287;Q9NQX1;Q3KNS6;Q86V11;Q9UFF9;Q9Y2X9;Q96JL9;Q9HOS4;A8K8V0;Q9UK12;Q6P9A3;Q9BUL9;Q49AG3;B1APH4;Q86VZ6;P67809;Q969W8;Q9H4L7;Q9P1U0;Q16385;O14628;P33240;P08048;Q9BZE0;Q9P2N5;Q9H5H4;O43309;O95201;Q9BSN8;Q8TC21;Q9Y3M9;Q8N988;P98168;Q96SE7;P0CB33;Q14587;O00148;Q96J4C;Q9HCK8;Q96T37;O60481;Q14103;Q96BV0;Q9NQV6;P31483;Q63HK3;Q9HCK5;Q7Z3I7;Q8TA86;Q96NI8;Q9UJN7;Q8WU90;Q96N22;Q504Q3;A8MX4;Q9BUY5;Q52983;O60384;P23193;Q14588;Q9HCK1;Q7Z398;Q9BYG3;Q03924;Q07955;Q9BUG6;P17026;P26368;P52298;Q66IR2;Q7Z2F6;Q6IV72;O95453;P38935;Q5JNZ3;Q9GZU2;Q5T5D7;Q8N883;Q96CS4;Q8TD26;Q7Z7J5;Q9BSV6;Q9NYT6;Q9Y6Q3;P98182;Q8NB50;Q9UJQ4;Q9HAZ2;Q9BQ15;Q8N9F8;Q13127;O95780;P13682;Q9NUU7;Q8IYN0;Q05481;Q15911;Q01081;Q3SY56;Q9NSU2;Q0VGE8;P51532;P26651;Q8IZH2;Q6PF04;Q8NCN2;Q08AG5;B4DU55;Q8NX49;Q9UC06;Q8N8U3;P36954;O75123;Q147U1;Q14586;Q96PE6;A6NKC0;Q9UII5;Q15696;P52741;A6NGD5;O95376;B7Z6K7;P11161;Q8IYX0;P17010;Q86VK4;P18583;A2RRD8;Q9NW07;P10074;O75607;Q9UK13;O43422;Q96SL8;P17544;Q96DT7;P0C7X5;O75925;Q9UDV7;P25490;Q8IY51;O75290;P15622;Q8N9Z0;Q9NSD4;Q02446;Q86UP8;Q8N8Z8;Q9HBE1;Q9UJL9;P79522;Q9UL41;Q14966;Q96F45;P49910;Q9UNY4;Q9P243;Q92664;Q6ZSB9;O60225;Q13156;Q86YF9;Q96N95;Q8TB69;Q9BT49;Q6PI48;Q49AA0;Q9C0B9;Q9NSC2;Q96I27;Q9UC07;Q9NR11;Q9Y2Y9;Q15697;Q5CZA5;Q05519;Q15233;Q5F1R6;Q7Z7K2;P51531;P41182;P17024;Q05516;Q6V9R5;P52743;Q08211;Q9UIV1;Q9H7R0;Q9B331;P09012;Q96K75;Q9NQZ8;Q9NR83;Q7L3S4;Q9NXT0;Q8IV48;Q9C0D7;P52737;Q9NR56;P59923;Q8N5L8;Q8WXB4;Q9UK33;Q8IYI8;Q9Y2V2;Q9P2F9;Q9BY77;P14866;Q9Y2Q1;Q8IYD8;Q9UL58;Q9H9L3;Q9Y2D9;Q9BU19;Q8WTR7;P17019;Q5VIY5;Q6ZRF7;Q9NPA5;O95600;Q9P2D1;Q5T1R4;Q8N684;Q8WW38;P46100;Q8N8E2;Q9H5L6;A6NHJ4;Q8N2W9;Q86XF7;O94892;Q9H4T2;Q86T29;A2A288;Q9UM63;Q6ZS27;Q9Y2P0;Q9Y2K5;P0CF97;Q14011;Q96SK3;Q96M33;A6NP11;Q3MIS6;Q9UL59;Q8N1G0;O75764;Q8NI51;Q9Y462;P26196;Q6ZMY9;Q15637;P10073;Q03468;Q68EA5;Q96JF6;Q7RTT3;Q3SY52;Q9HXC3;Q9HCI6;Q8N680;P15336;P19338;Q6PDB4;Q86UD4;Q6ECI4;Q53EQ6;Q9UJW8;Q12901;Q969J2;P52738;Q9UIH9;Q13243;Q12874;Q16629;Q7KZF4;Q86U42;P17027;P54098;Q8WV9;P51508;Q92670;Q8NFT6;Q8N7M2;O60765;Q6ZRS2;Q9P215;Q5SXM1;O43390;Q9HCG1;O75467;Q9BS34;Q96C00;P15621;O75626;Q9NS91;Q9UKV8;Q8N7K0;Q569K4;Q9ULJ3;P51522;Q99909;Q8N0Y2;Q86YD7;Q8TAF7;Q01844;Q16531;P17023;Q03936;Q13398;P10072;Q9H668;O75494;C9JN71;Q7RTV3;Q14591;Q9UBL0;Q96T92;C9JBD0;Q9NQX0;O75437;Q14590;E7ETH6;Q6R2W3;Q68DY1;Q96QE5;P22626;Q96BK5;Q2VY69;Q8NE65;Q6ZN06;A6NNF4;Q86UE3;Q5EBM4;P30622;A8MQ14;A8MUZ8;Q9UBB9;Q5TYW1;Q8WV37;Q8NDV7;Q96H40;Q9Y2G7;Q9BRH9;Q9BQA5;Q86TG7;Q3MJ62;Q8NA92;O15226;Q9NX65;Q8N7Z3;Q9NRN9;O95125;Q8N3J9;P52740;Q8N1G1;Q9P2Y4;Q6P2D0;Q9UHX1;Q96K62;O94762;O95628;Q76KX8;Q9Y6X2;Q86TJ5;B4DXR9;Q9UKJ3;Q7Z340;Q9BWM5;P10075;Q9UJH3;Q96SQ5;P18146;P62633;Q9NZL3;Q8NEA6;Q8NEK5;O75534;P17025;Q8N2I2;P19447;Q9HBT7;O43776;Q3KQV3;Q5JVG2;Q16587;A6NJL1;Q06730;A8MTY0;Q32M78;P0CH99;Q6NSZ9;O75346;Q9NPC7;Q6P280;Q8IZC7;Q8N393;Q8N895;Q96N58;Q6P1L6;P17022;Q9BSG1;Q6ZMW2;Q6ZN17;Q9H8M2;P17029;Q8NDX6;Q9NQV7;Q14839;Q9HBT8;Q6ZMV8;Q6ZN17;P23246;Q9H7S9;P57070;O63014;A6NEJ1;Q5JUW0;Q9HCZ1;Q9UK11;Q96JB3;Q05215;Q16670;Q92785;Q8WTV1;Q13435;O60930;Q15916;Q5H9K5;Q13064;Q8NDW4;Q9NWS9;O14646;Q9NQ03;Q9H9Z2;Q96LX8;Q9UIE0;Q9H609;P0C7V5;Q9P2J8;Q96N20;Q92784;P17021;A6NE21;O43345;Q8NF99;Q8N823;Q49A33;Q969S3;Q6U7Q0;A6NNJ1;O43298;P36508;Q969V6;Q96PQ6;Q99612;Q9BRR8;A6NK53;Q6AW86;Q6ZT77;Q8TA94;Q13888;Q96N77;P38159;Q9NSJ1;Q03112;O60506;O43361;Q8TF20;Q9ULV3;P17035;Q13310;Q92917;P17010;O75564;P16989;Q8NAF0;Q15560;Q86UQ0;Q8NHV6;Q8IW36;Q9UNY5;Q499Z4;Q9UKN5;Q13838;Q15973;Q8NC26;Q9ULG1;Q52M93;O43296;Q86WZ6;Q8TF47;Q9UBU7;Q8IZ20;Q9C0F3;O00110;P0C7W8;P52742;P08047;Q9UEG4;A6NJQ4;P24278;P18615;A6NFI3;P52597;Q16630;Q9NZV



7;Q8N972;Q9UK10;Q12986;O75391;Q96MN9;Q9P2K5;Q96BR9;Q6PJT7;Q8N141;Q9H582;Q9BTE6;Q96KR1;Q14593;Q5TEC3;Q8N5P1;Q8WXP1;Q08ER8;P17032;P49711;Q8TD23;Q9HC78;P16415;P86452;Q7Z4G4;Q5HY98;Q92889;Q9Y2L8;Q9Y3B8;Q8TAT5;O75152;P17017;O75792;Q9P0L1;P52744;Q8TF50;Q96PK6;Q3ZCT1;Q9UQR1;P35637;Q9H4Z2;Q7Z3K3;Q96CX3;Q9BR84;O96006;Q9H963;Q76FK4;P17020;Q96NL3;Q8NCA9;P17039;Q6TEBC5;Q02447;Q8TF32;Q6ZSS3;P35789;Q9NV1;Q8N554;P17030;Q6NZY4;Q96IT1;Q9HCL3;O14771;Q9PEW1;Q8N7Q3;Q8IVC4;Q68D9;P0CJ79;Q9Y4X4;A6NK75;Q8N9Q2;Q96HQ0;Q02930;P17028;Q96GC6;P51523;Q7L2R6;Q8N8J6;O43167;Q9NXP7;P58317;Q6P9G9;Q8NBF1;Q96NJ3;Q86SE8;O60281;Q9HA38;Q6ZQV5;Q96JM3;Q96MU6;Q9BYN7;Q9H165;Q7Z3V5;Q92841;Q9Y6R6;Q9GZX5;Q8N782;Q6ZNG1;P55795;Q5TAX3;Q92804;Q15424;Q86XU0;Q06732;Q6ZR52;Q96FI4;Q5MCW4;Q14872;Q5FWF6;Q9UDV6;Q15937;Q6P9A1;Q86UZ6;Q8TAQ5;Q9Y5A6;Q9H707;Q8IYW8;Q8IWX8;Q13129;Q9Y5N5;Q8TF45;Q14240;O15535;Q8TF39;Q9BSK1;Q5HYK9;Q5HYM0;Q9H116;Q2M1K9;P28370;O14709;Q13148;Q14527;Q96T58;Q99684;Q9ULD5;Q8N8L2;O75373;Q8N587;Q96N38;Q9BY31;Q8N4W9;Q96MR9;A6NM28;Q16384;Q14592;Q86V71;Q03923;Q9Y2P7;Q8IX12;Q9H9G7;Q0D2J5;Q7Z7L9;Q9H6T0;O60315;Q8IZ26;Q8NA42;Q969S2;Q13422;Q09FC8;Q8NDQ6;P43243;Q8N859;P51786;Q15928;O95639;P84103;Q8IX07;Q9BX82;Q86Y25;Q9UL36;Q96BR6;P23588;Q9BRR0;Q86WJ1;P07199;A6NDX5;Q96C28;P35659;Q96NJ6;P0C7X2;O75362;P98169;Q6IQ21;Q9HC3;P41208;Q99676;P37275;Q4V348;P0CG31;Q9H7X3;Q6PK81;Q9UPG8;Q6ZN11;Q9NQX6;Q9H2U1;Q9NRZ9;Q96LW9;O14901;Q2QGD7;Q8NEM1;Q6ZN79;P17097;P17040;Q3SXZ3;Q14151;Q8NA58;O95625;Q9HBD4;Q96QC0;Q8NDP4;Q2M3X9;P27694;Q9UKT9;Q5VTD9;Q9NP64;P52747;Q53GI3;Q9HOM5;Q9C0G0;Q5EBL2;P51814;P51815;P21506;A8MT65;Q9UHI6;P15927;Q96H86;O15504;Q96K80;Q9P2Z0;A6NEW6;Q07352;Q8TBZ8;Q9NYW8;P52746;O15042;Q12798;Q9ULM2;Q3ZCX4;P06748;P49756;P0CG24;B2RXF5;Q8NCE0;Q8NB42;Q14584;Q6DD87;Q9UMR2;Q14585;Q96K83;Q9P0T4;O15015;Q6B0B8;Q17R26;Q8N184;Q9H2P0;Q9BYX4;P38919;Q14526;Q7RTT5;Q9NV72;Q96GE5;O75821;Q7Z6K1;Q9UFB7;Q96C10;P14373;Q6AZW8;Q13106;Q9Y473;Q6NX45;Q93062;P62269;Q8NCP5;Q6ZNH5;Q5T619;Q9GZV8;Q96SZ4;Q9GZR2;Q5SVZ6;Q96GM8;Q7Z2W4;Q8TF68;Q08AN1;Q86XN6;Q9H6B1;Q7Z6E9;O95391;Q8TCN5;P08151;Q13118;Q15929;P08621;Q5JVJG8;Q9NUK0;P87889;Q86XN5;Q5VV52;Q9NTW7;Q6ZNG0;P17038;Q01130;A6NN14;Q86VM9;P15822;Q8NB42;Q15776;Q66K89;Q8NCK3;Q68D11;Q6PG37;Q13105;P0CG00;P60842;Q9Y2Y1;P52736;A8MVS1;Q8IYL2;Q96MW7;Q92499;Q9Y6M1;Q96K58;Q9UGR2;B4DX44;Q96RE9;P12956;Q494X3;Q7RTT6;Q96PM9;Q14119;P17014;Q9NU63;Q00839;Q9Y2T7;Q92618;Q14498;Q8NEP9;Q8TAU3;Q8IYB9;Q96D70;Q6ZNA1;Q6NT04;Q15935;Q7L945;Q9UL40;O75820;Q96SR6;Q8TDD2;Q8TBK6;Q9UDW3;Q2M218;Q14249;Q14929;Q8TD17;P11940;Q5VZF2;Q96EK4;Q8WVK2;Q8N5A5;Q96ND8;Q8N1G2;Q96LW1;Q7L2E6;Q6EKJ0;O95789;Q8WY91;Q13472;Q6P3V2;Q9NUD5;P09234;Q9Y534;Q8NAP3;Q9P255;Q8TAD5;P14868;A6NDY2;P47974;Q9Y2A4;Q5T200;O14978;Q9H8G1;Q66K41;A8MWA4;Q6ZN08;P31943;Q9BV97;Q9BX63;Q8IVP9;P0CJ78;Q8NG50;Q4W5G0;A8MUV8;P51504;Q3KP31;O60224;Q6ZMS7;Q96EG3;Q5SVQ8;Q9ULH7;P17098;Q8N3C0;Q92698;Q6ZN01;Q9UJW7;P0CI00;Q5T0B9;Q16600;P17041;Q9HCK0;Q96NG5;Q9NVV9;Q96JM2;Q15428;Q9Y5S9;Q6WB81;Q12873;O60290;Q9UKV3;Q96NG8;Q96AH0;O60264;Q07RTT4;Q96I59;Q9UL18;P17036;Q8TBZ5;Q8N1W2;Q9Y2H8;Q9Y2K1;Q13360;O00425;Q8NDT2;Q15046;O15060;Q10570;Q2M3W8;Q86YEB8;Q3L8U1;Q9Y2Y4;Q9H7R5;Q9H9D4;Q6ZN19;Q03938;Q8N8C0;O43830;O75132;Q9HAH1;P56270}

8363

Pathogen[ P03363] interacts with 1010 human

partners: {Q1KMD3;A2RRD8;Q86TJ5;Q49AA0;O95376;Q9NQX1;Q16587;Q504Q3;Q5JUW0;Q15020;Q86XU0;Q15911;Q9Y5A6;Q9P0L1;Q8NB42;A8MQ14;Q5VTD9;O75123;Q9C0F3;Q9BQ50;P12956;Q8NHY6;O94762;Q5T0B9;P13682;O75820;Q3KNS6;Q99684;Q03923;Q9BX63;Q15233;Q6P9A3;Q8NCK3;Q6ZMY9;P35789;O14901;O75373;Q5SVQ8;Q6ZN17;P98168;P08048;Q13105;Q5SVZ6;P17027;P0CH99;Q3L8U1;Q13151;Q5VUA4;Q9NSD4;Q13595;Q8N9F8;Q86V71;Q6IQ21;P63131;Q99592;Q8N1G0;Q9H963;Q92917;Q9UJQ4;Q99909;Q969J2;Q9N988;Q4W5G0;Q8N2I2;P63119;Q96LW1;Q82698;Q8IZC7;Q8NE65;P19338;Q96N22;Q9NQ08;Q6DD87;Q9NWH9;P23246;Q8TAQ5;Q96T58;P27694;Q8WTV1;Q92766;Q6ZNA1;Q14929;Q9NQX6;P38919;Q7Z340;Q5T8P6;B4DU55;Q8N859;P0DJD3;O14978;Q6ZN06;Q86W11;Q8NA42;Q9NZL3;Q9Y2D9;Q8NAP3;P17021;Q10570;P17010;Q8IVP9;O43296;Q8NA92;O14771;O95780;Q96K80;Q86VK4;A6NK75;P52738;P10265;O75643;Q9NUA8;Q6NSZ9;Q8IY21;Q12901;O60481;P18146;Q13360;O95628;Q9ULG1;Q8NG50;O95453;Q9H9P5;Q6ECI4;Q6P2D0;O75764;Q8NEK5;Q02386;Q13148;Q96JC4;O60315;Q13435;Q02930;O95391;O60224;Q9BSV6;P98169;O75391;Q7Z334;Q9P2J8;Q86UP3;Q6NT04;P25971;Q96T92;P0CG31;Q99676;Q3ZCT1;Q6V9R5;Q9NW13;Q9H8M2;Q9C0A1;Q14526;A6NHJ4;Q96MX3;P14373;Q9UHI6;Q6NZY4;Q9H707;Q96NG8;Q9NVV9;O75607;Q9UC06;Q96SE7;P09012;A2A288;Q9BRR0;P08151;Q7L3S4;Q9H7S9;Q96K62;P86452;Q96JF6;Q9UKV3;Q14590;Q9Y2V2;Q9H4L7;Q86UE3;Q96BK5;P17098;Q08AN1;Q15928;Q8WVJ3;Q6PG37;Q9Y2K5;Q96I59;O43167;Q6ZR52;Q96EK4;P14868;Q8IX01;P51991;Q5EBL2;P0CG00;Q96NJ6;Q03112;Q13888;Q9UEG4;Q96QC0;Q9HAH1;O43347;Q9BWW7;Q6NX49;P14866;Q9Y2P0;O75346;O60281;Q9HBT8;Q15393;O75132;Q92879;P37275;Q8WVE0;Q969W8;Q8TDD2;Q16531;Q96GM8;Q9Y5R4;Q8NDW4;P35637;Q13283;Q6ZRS2;Q9BU19;Q9H2P0;Q9NX65;Q7RTV3;Q8N720;Q9GZR2;O95600;Q96LX8;Q9H9G7;P51532;Q96AH0;P17024;Q15929;P09651;Q6ZQV5;Q9NRP9;P08579;Q7Z2W4;Q9P243;Q494X3;Q7Z6E9;Q3SXZ3;Q8N1G2;Q8IY67;Q9NUU7;Q96MR9;Q15056;Q8NCP5;Q5HYK9;Q5T1R4;Q9UL59;P25490;Q6EKJ0;O95201;Q9P215;O60765;Q5T5D7;O75526;Q16384;Q8NDQ6;Q9HCL3;Q8TCN5;Q9BRR8;P29558;Q8N883;Q53EQ6;O00425;Q16629;Q9HCK5;Q9Y462;E7ETH6;P15621;Q8NBB4;Q6P9A1;Q7Z6K1;Q96FI4;P17030;Q92889;Q9UC07;Q96I25;Q8N8C0;P35659;Q08AG5;Q0D2J5;Q15776;A6NGD5;Q9Y2L8;Q96HQ0;Q96MU6;Q68DI1;Q5JVJG2;Q5SXM1;Q9UDV7;A8MTY0;Q3KP31;P17031;Q8N680;Q5JT82;Q8NKN2;Q9612;Q8N141;Q9UKV8;Q6ZN55;Q8TA86;Q9NW07;Q66K89;P63121;Q9UL41;O75437;Q16630;Q76KX8;Q9UL40;Q4G0J3;Q96D70;Q15427;Q5F1R6;O43422;Q8N9Z0;Q9Y467;Q6NUN9;Q9UK11;Q3KQV3;Q96PQ6;Q01130;Q8N782;Q5TYW1;O43776;Q9Y2A4;Q8IYW8;Q96GC6;Q8N5L8;Q7RTT5;Q9UM63;Q969V6;Q9NW75;Q9Y6M1;Q9HCI6;Q9HCK0;Q9NCP7;O15047;Q9Y2K1;P09234;Q96EG3;Q6ZMV8;P36508;Q6BEB4;Q9Y2H8;P51522;P49756;O43309;Q14839;Q8N302;P16415;Q9HCZ1;Q9NSJ1;Q9BX82;Q9UJW7;Q14588;P41208;Q8NEA6;Q8IZ26;Q96N20;P11940;Q9Y2X9;Q86U42;Q9NR56;P59923;P15927;Q96MM3;P17041;Q9NWS9;Q9BWF3;Q32P51;Q9HXC3;Q8WU90;Q86YEB8;Q96BV0;Q9BUG6;Q9Y6I0;Q6ZNH5;Q9Y4X4;P0CG24;Q8NI51;Q96I27;Q14593;Q8NDV7;P17019;Q7Z7K2;B4DXR9;Q92620;Q9HOS4;Q7KZF4;Q12986;P06748;Q9H5H4;Q9UNY5;B1APH4;Q9UNY4;Q96PK6;P23588;Q99729;P49711;Q9NTW7;Q9P2N5;Q7L2R6;P18615;P54098;Q8TBC5;Q8IWX8;Q8IYL2;Q9NZV7;Q9UK10;Q8NCA9;P07199;Q86VZ6;P46100;Q05519;Q13127;Q9Y2Y9;O75792;Q8N3Z6;P52272;A6NNF4;Q9C0G0;Q6ZN11;Q8N9W6;P0C7X5;P17029;Q9NX07;O60264;Q15287;Q96BR6;Q9P2Z0;Q6P1L6;A6NK53;Q6IV72;P51786;Q8TF45;P10072;Q8N684;Q9Y6X2;Q03936;Q9NQ03;Q5VV67;Q96RE9;Q6ZN19;



P15336;Q2M1K9;Q9Y3B4;P17023;Q86T29;Q9BSN8;Q8NAF0;Q96DT7;Q15937;Q15424;Q92904;P15822;Q07352;P0C7V5;Q14562;A8MUZ8;Q2VY69;Q13242;Q96JM2;Q96J87;A6NEJ1;O43830;Q96JM3;C9JN71;Q96LW9;P30622;Q8IYB9;Q6ZNG9;O15226;Q8TF39;Q9BS31;Q13129;Q9HCK8;Q8N972;Q14872;Q9NUL7;Q9BYN7;Q96N58;Q9H4T2;Q9UDW3;Q14119;Q8N393;Q12798;P38159;P18583;Q8N5P1;P52737;Q9BY77;Q96IR2;Q9UPG8;Q8N8Z8;Q8TF20;Q92841;Q9ULD5;P26368;Q9GZU2;Q17RP2;Q14240;P46063;Q9GZT3;P51504;Q9BQ15;P21506;P24278;Q9HBT7;Q8IW36;Q12874;Q15717;Q13156;Q9UPN6;P31943;Q9P255;Q9NZI8;Q9BTE6;Q9BX46;P17039;Q6PF04;Q8TAF7;Q96H40;Q5VYI5;Q9UDV6;Q5JNZ3;Q86WZ6;Q96C28;P17032;O14979;Q8IZ20;Q9BXX1;Q9H609;P63124;Q9UJU3;Q14527;Q96QE5;Q6PI48;Q8N1G1;A6NDX5;O00148;Q9NXT0;O14709;Q6NX45;Q13472;Q8IY51;Q9H4Z2;Q9H668;P51814;O75534;Q9BSK1;Q15637;Q9NP64;Q96LTY;Q13310;Q16670;P52736;Q9HBD4;P07998;Q5CZA5;Q8N7M2;Q9UGR2;Q9Y6Q3;P17002;Q6B0B8;Q14966;O15056;Q8N5A5;P17036;Q13243;Q9ULH7;Q63HK3;Q9Y3M9;Q8IYD8;Q86UP8;Q96006;Q86V81;Q9BQA5;P52744;Q96SK3;Q2M218;P07910;Q9H9L3;Q9NWB1;Q96C00;Q6U7Q0;Q96PE6;Q8N895;Q5T619;Q9BRH9;Q8IVC4;P31942;Q7RTT3;O75564;Q8TF68;Q6ZN57;Q92499;Q9H9Z2;Q96N77;Q14011;Q6ZNG0;P52298;P26196;Q13838;Q86XN6;Q9Y2G7;Q6ZNO8;Q9UHX1;Q96I76;Q96IT1;Q92618;P08621;Q5T200;Q06732;Q9HOM5;O75925;P43243;Q92664;Q8NEP9;P17025;Q7Z3I7;Q9H582;Q9UK13;Q14592;Q96CX3;Q9UPS6;P51508;Q8N184;Q6ZSB9;Q8N7K0;P0CB33;Q9BUY5;Q9H7R0;Q14591;Q86UQ0;Q14584;Q9BS34;Q8N8L2;Q96SL8;Q9P2K5;Q9ULV3;Q9Y3Z3;Q96T37;A8MUV8;P22626;Q8IX06;Q7Z3K3;Q6ZMW2;O43345;Q96SZ4;Q86Y25;Q5TAX3;O60812;B4DX44;P57071;Q9Y5N5;P82979;Q6ZNG1;Q8IWX8;Q15697;Q6ZN79;O95125;P26599;Q8N823;Q7RTT4;Q6ZSS3;Q8NC26;Q9BYG3;Q14585;O14646;P52740;Q14103;P51523;P23193;Q9UMR2;Q14587;P56270;Q9NPA5;Q01844;Q96NG5;P55795;Q8N3J2;Q9UL18;P49910;Q6AZW8;P17014;Q96GE5;Q9Y2Y4;O75362;Q92670;Q9UL58;Q15072;P10074;Q92804;P60842;Q86XP3;P26651;Q9UIV1;Q8TD23;Q9Y6R6;Q03468;Q9UKM9;Q9UJN7;O95319;P98182;Q8IX12;Q6ZS27;Q6ZN01;Q9UBL0;Q5HY98;O60225;A8K8V0;Q9UQR1;Q2QGD7;Q8IYN0;Q8TD26;Q8TB69;Q16385;Q96JL9;Q07955;Q9NYT6;P17020;O60506;Q3MIS6;Q9BR84;Q96E39;Q01081;Q8TF47;Q5VZF2;A6NP11;Q3SY52;Q8N954;O43361;Q9H7X3;Q9BSG1;Q09FC8;Q9UK12;Q15973;Q9BYX4;Q86XF7;Q96MN9;P17017;Q96K58;Q9BT49;Q9H116;O60304;Q8TAU3;C9JBD0;Q13247;Q5H9K5;Q15428;Q13398;Q9UKT9;Q53GI3;Q96J94;Q7Z4G4;Q7Z2F6;Q86UD4;Q12873;B2RXF5;P05455;P28370;Q147U1;Q9NR11;O60930;P58317;Q5SZQ8;Q8WVK2;Q6AW86;Q8IYX0;P47974;A6NDE4;Q6P280;Q8NDP4;Q7L945;Q5EBM4;Q9NQZ3;Q8TC21;A8MX4;Q7L2E3;P16989;Q8NB50;Q9NVP1;Q9UFF9;Q52M93;Q00839;Q8N9K5;Q66K41;Q96N95;Q8WXB4;P52741;Q8WTR7;Q9HCG1;Q9Y2Q1;Q8WW38;Q9Y534;Q86SE8;P84103;Q5T3I0;Q499Z4;O15504;Q9BY31;Q96NJ3;Q14498;Q68DY9;P52743;Q8TAW3;P08047;Q8WTZ3;P31483;Q5TEC3;A8MVS1;Q9H2U1;Q9UKJ3;Q9HC78;Q2M3X9;P15622;O75821;Q86YF9;O75152;O60290;Q15560;O43390;Q96KR1;O75626;P0C7X2;P52742;Q6ZRF7;Q8N6W0;Q9H9D4;Q6P3V2;Q2M3W8;Q5MCW4;Q7Z7J5;Q15935;Q8WXF1;A6NFI3;O43298;Q9BWM5;P62995;O43829;Q8N1W2;P51531;Q8N8J6;Q8N587;Q9NQV6;Q86WJ1;Q16560;Q9UL36;P17544;Q8IYI8;P17040;Q94892;Q0VGE8;Q9HCE3;Q96BR9;Q8N2W9;Q05481;P0CJ78;O15060;Q96PM9;Q08211;O95625;Q9NS91;Q9P2F9;Q96K75;Q5FWF6;P55884;O15042;Q9UIH9;Q9NYW8;Q9H6S0;P51815;Q9UID6;Q96CS4;Q3MJ62;Q05516;A6NJL1;Q9BUJ2;P33240;Q3ZCX4;Q8TBZ5;A8MT65;Q13106;Q9GZX5;Q8TF50;P17038;P0CJ79;Q6P9G9;Q6R2W3;Q5T890;Q96NI8;Q8TF32;Q6ZMS7;Q9Y2T7;Q9P0T4;Q969S2;Q12926;Q76FK4;Q32M78;Q9BV97;Q969S3;Q9H6T0;P63129;Q96NLI3;Q9Y473;Q9BTD8;Q17R26;Q8NEM1;Q3KNW1;Q15696;P52746;Q9HJC3;Q05215;Q9UII5;Q9BZE0;P38935;P0CF97;Q9Y5S9;Q8NCE0;Q9P2Y4;Q08ER8;Q9BUL9;Q86TG7;Q9WVV9;Q4V348;Q9UJL9;Q8IZH2;Q49A33;Q9NVP2;Q96N38;Q06730;Q9UIE0;Q14151;Q9H8G1;Q02446;Q9UJW8;O14628;O43251;Q8NBF1;A6NN14;Q9UNP9;Q68DY1;Q8IXT5;Q92698;Q49AG3;Q7Z3V5;Q8N7Q3;O95789;Q8TBZ8;O75494;P10073;Q8NFP9;O75290;P62269;Q9NQ94;P67809;Q9NUK0;Q9NR83;O15535;Q6ZT77;A8MWA4;O43719;Q8N3C0;O75467;Q6PJT7;P52747;O75928;Q13118;Q96SQ5;P17035;Q96MW7;Q8N0Y2;Q8N4W9;A6NM28;Q92785;Q6PK81;Q13401;Q86V79;Q9UFB7;Q9HAZ2;Q96H86;Q8TA94;Q5JVG8;Q03938;P42285;Q7RTT6;Q16600;Q15032;P11161;Q8NDT2;Q9Y2P7;P52756;Q9H7R5}

- 8364 [Cluster 761]GO:0050733+F molecular\_function [name] RS domain binding [def]  
 "Interacting selectively and non-covalently with an RS domain of a protein\_ RS domains are usually highly phosphorylated and characterized by the presence of arginine (R)/serine (S) dipeptides. The RS domain promotes protein-protein interactions and directs subcellular localization and, in certain situations, nucleocytoplasmic shuttling of individual SR proteins. They also play a role in splicing." [PMID
- 8365 Pathogen[ Q2Q067] interacts with 6 human  
 partners:{O75494;Q9NQ29;Q07955;Q01081;Q13243;P18583}
- 8366 Pathogen[ P0C214] interacts with 6 human  
 partners:{Q9NQ29;Q07955;P18583;Q13243;Q01081;O75494}
- 8367 Pathogen[ P03346] interacts with 6 human  
 partners:{P18583;Q07955;Q01081;Q9NQ29;Q13243;O75494}
- 8368 Pathogen[ Q85601] interacts with 6 human  
 partners:{Q13243;O75494;Q07955;Q01081;Q9NQ29;P18583}
- 8369 Pathogen[ P14079] interacts with 6 human  
 partners:{Q13243;Q9NQ29;Q07955;Q01081;O75494;P18583}
- 8370 Pathogen[ P03383] interacts with 6 human  
 partners:{Q07955;O75494;Q13243;Q9NQ29;P18583;Q01081}
- 8371 Pathogen[ P03410] interacts with 6 human  
 partners:{Q01081;Q07955;P18583;Q9NQ29;Q13243;O75494}
- 8372 Pathogen[ P14075] interacts with 6 human  
 partners:{Q13243;O75494;Q9NQ29;Q01081;P18583;Q07955}
- 8373 Pathogen[ P0C206] interacts with 6 human  
 partners:{Q07955;Q01081;P18583;Q13243;O75494;Q9NQ29}
- 8374 Pathogen[ P03363] interacts with 6 human  
 partners:{P18583;Q13243;Q07955;Q01081;Q9NQ29;O75494}
- 8375 [Cluster 762]GO:0004864+F molecular\_function [name] protein phosphatase inhibitor activity [def]  
 "Stops, prevents or reduces the activity of a protein phosphatase, an enzyme that hydrolyzes phosphate groups from phosphorylated proteins." [GOC
- 8376 Pathogen[ Q2Q067] interacts with 16 human

8377 partners:{Q9UD71;O75167;Q01105;Q5T8A7;Q9Y6J0;P41236;Q6NXS1;Q13522;O60927;Q96QC0;Q12972;O43768;Q96C90;Q9C0D0;P56211;O94763}  
Pathogen[ P0C214] interacts with 19 human

8378 partners:{O43768;Q96PQ5;Q6NXS1;Q96C90;O60927;P41236;Q9UD71;Q01105;P56211;Q13522;Q96KR7;O75167;Q9C0D0;Q5T8A7;Q96LQ0;Q12972;O94763;Q96QC0;Q9Y6J0}  
Pathogen[ P03346] interacts with 22 human

8379 partners:{Q96KR7;Q96QC0;Q01105;O94763;Q13522;Q9NXH3;Q96C90;P56211;O75167;O43768;Q9UD71;Q9Y6J0;Q96A00;O60927;Q6NXS1;Q9C0D0;Q86WC6;Q5T8A7;Q8WVI7;P41236;Q12972;Q8TEC5}  
Pathogen[ Q85601] interacts with 16 human

8380 partners:{Q9UD71;Q01105;Q9Y6J0;P56211;O75167;O43768;Q12972;P41236;Q96C90;Q9C0D0;Q5T8A7;O60927;Q96QC0;Q6NXS1;O94763;Q96PQ5}  
Pathogen[ P14079] interacts with 27 human

8381 partners:{Q01105;Q9UD71;Q9C0D0;Q96QC0;O43768;O14990;Q13522;Q9NXH3;Q8WVI7;Q5T8A7;P56211;Q8TAP8;P41236;O75167;O94763;Q96KR7;Q96A00;Q6NXS1;Q86WC6;Q12972;Q8TAE6;Q96C90;O60927;Q9Y6J0;O96001;Q96LQ0;Q96PQ5}  
Pathogen[ P03383] interacts with 15 human

8382 partners:{Q9UD71;O75167;O60927;Q01105;Q96C90;Q12972;O14990;Q13522;O94763;O43768;Q6NXS1;Q5T8A7;Q96QC0;P56211;P41236}  
Pathogen[ P03410] interacts with 27 human

8383 partners:{Q8WVI7;O94763;Q9Y6J0;Q96QC0;Q96LQ0;Q9C0D0;Q9NXH3;O75167;Q96A00;Q01105;Q86WC6;P41236;Q96KR7;Q13522;Q8TAE6;Q5T8A7;O60927;Q8TAP8;O14990;Q96C90;O43768;Q12972;O96001;Q96PQ5;Q6NXS1;Q9UD71;P56211}  
Pathogen[ P14075] interacts with 20 human

8384 partners:{Q13522;Q96C90;Q96QC0;Q5T8A7;P41236;Q01105;Q96A00;Q9UD71;Q6NXS1;O94763;Q8TAE6;O43768;Q9NXH3;Q96LQ0;P56211;Q12972;O60927;Q8TAP8;O14990;O75167}  
Pathogen[ P0C206] interacts with 26 human

8385 partners:{Q6NXS1;Q9NXH3;Q8WVI7;Q96C90;P41236;Q9UD71;Q86WC6;O60927;P56211;Q8TAE6;Q9C0D0;Q13522;Q9Y6J0;Q5T8A7;Q96LQ0;O43768;Q96A00;Q96PQ5;Q96QC0;Q12972;Q8TAP8;O75167;Q01105;Q96KR7;O14990;O94763}  
Pathogen[ P03363] interacts with 21 human

8386 partners:{Q9Y6J0;O60927;Q12972;Q9NXH3;P41236;Q9UD71;Q96QC0;Q96C90;Q9C0D0;Q13522;Q86WC6;Q6NXS1;O94763;O43768;O75167;Q5T8A7;P56211;Q8TEC5;Q96KR7;Q01105;Q96A00}  
[Cluster 763]GO:0000978+F molecular\_function [name] RNA polymerase II core promoter proximal region sequence-specific DNA binding [def] "Interacting selectively and non-covalently with a sequence of DNA that is in cis with and relatively close to a core promoter for RNA polymerase II." [GOC]

8387 Pathogen[ Q2Q067] interacts with 10 human  
partners:{Q12837;P15884;Q6P1N0;P15976;P08047;P11831;P61978;P56693;Q06330;Q5T0F9}

8388 Pathogen[ P0C214] interacts with 8 human  
partners:{P15884;P56693;P11831;Q06330;Q12837;Q6P1N0;P08047;Q5T0F9}

8389 Pathogen[ P03346] interacts with 16 human  
partners:{Q06330;P61978;Q9H2W2;P11831;Q12772;Q12837;P56693;O15534;P08047;Q6P1N0;Q9C0J9;P15976;Q9UBG7;O15516;Q5T0F9;P15884}

8390 Pathogen[ Q85601] interacts with 14 human  
partners:{P61978;P11831;O15534;P15976;Q06330;O15516;Q12772;Q9UBG7;P08047;P56693;Q12837;Q6P1N0;Q5T0F9;P15884}

8391 Pathogen[ P14079] interacts with 12 human  
partners:{Q5T0F9;P15976;Q6P1N0;Q12837;Q12772;Q06330;P56693;P61978;P15884;P15941;O15534;Q9UBG7}

8392 Pathogen[ P03383] interacts with 8 human  
partners:{Q06330;P11831;P08047;P61978;Q6P1N0;Q12837;P56693;Q5T0F9}

8393 Pathogen[ P03410] interacts with 14 human  
partners:{P11831;P61978;Q06330;P15941;P15884;Q5T0F9;Q12772;O15534;P56693;P08047;Q12837;P15976;Q6P1N0;Q9UBG7}

8394 Pathogen[ P14075] interacts with 9 human  
partners:{P11831;Q12837;P56693;P61978;Q06330;P15884;Q6P1N0;Q5T0F9;P08047}

8395 Pathogen[ P0C206] interacts with 15 human  
partners:{Q06330;P61978;O15534;Q9C0J9;P56693;P15976;Q12837;O15516;Q6P1N0;P08047;P15884;P11831;Q9UBG7;Q12772;Q5T0F9}

8396 Pathogen[ P03363] interacts with 13 human  
partners:{Q06330;Q9H2W2;Q9C0J9;P11831;P56693;P15884;P61978;Q6P1N0;Q9UBG7;P08047;Q12837;O15534;Q5T0F9}

8397 [Cluster 764]GO:0008195+F molecular\_function [name] phosphatidate phosphatase activity [def] "Catalysis of the reaction

8398 Pathogen[ Q2Q067] interacts with 3 human partners:{Q66LE6;Q92539;Q14693}

8399 Pathogen[ P0C214] interacts with 4 human partners:{Q66LE6;Q92539;Q9BQK8;Q14693}

8400 Pathogen[ P03346] interacts with 3 human partners:{Q66LE6;Q92539;Q14693}

8401 Pathogen[ Q85601] interacts with 3 human partners:{Q66LE6;Q92539;Q14693}

8402 Pathogen[ P14079] interacts with 4 human partners:{Q9BQK8;Q14693;Q92539;Q66LE6}

8403 Pathogen[ P03383] interacts with 2 human partners:{Q92539;Q14693}

8404 Pathogen[ P03410] interacts with 4 human partners:{Q9BQK8;Q14693;Q66LE6;Q92539}

8405 Pathogen[ P14075] interacts with 2 human partners:{Q92539;Q14693}

8406 Pathogen[ P0C206] interacts with 4 human partners:{Q92539;Q66LE6;Q9BQK8;Q14693}

8407 Pathogen[ P03363] interacts with 2 human partners:{Q92539;Q66LE6}

8408 [Cluster 765]GO:0046625+F molecular\_function [name] sphingolipid binding [def] "Interacting selectively and non-covalently with sphingolipids, a class of lipids

containing the long-chain amine diol sphingosine or a closely related base (a sphingoid)." [ISBN

8409 Pathogen[ Q2Q067] interacts with 2 human partners:{Q12933;Q13233}

8410 Pathogen[ P0C214] interacts with 2 human partners:{Q13233;Q12933}

8411 Pathogen[ P03346] interacts with 1 human partners:{Q13233}

8412 Pathogen[ Q85601] interacts with 2 human partners:{Q12933;Q13233}

8413 Pathogen[ P14079] interacts with 1 human partners:{Q12933}

8414 Pathogen[ P03383] interacts with 2 human partners:{Q13233;Q12933}

8415 Pathogen[ P03410] interacts with 2 human partners:{Q13233;Q12933}

8416 Pathogen[ P14075] interacts with 2 human partners:{Q12933;Q13233}

8417 Pathogen[ P0C206] interacts with 2 human partners:{Q12933;Q13233}

8418 Pathogen[ P03363] interacts with 2 human partners:{Q12933;Q13233}

8419 [Cluster 766]GO:0008237+F molecular\_function [name] metallopeptidase activity [def] "Catalysis of the hydrolysis of peptide bonds by a mechanism in which water acts as a nucleophile, one or two metal ions hold the water molecule in place, and charged amino acid side chains are ligands for the metal ions." [GOC

8420 Pathogen[ Q2Q067] interacts with 3 human partners:{Q92905;Q6P1X5;Q9HD42}

8421 Pathogen[ P0C214] interacts with 4 human partners:{Q9HD42;Q92905;Q6P1X5;Q9NY33}

8422 Pathogen[ P03346] interacts with 4 human partners:{Q9HD42;Q95630;Q6P1X5;Q92905}

8423 Pathogen[ Q85601] interacts with 4 human partners:{Q92905;Q6P1X5;Q95630;Q9HD42}

8424 Pathogen[ P14079] interacts with 12 human partners:{Q96KR4;Q96KP4;O00487;Q96MI9;Q9HD42;Q9UPW5;Q6P1X5;Q9NY33;Q400G9;Q8NDL9;Q92905;Q03154}

8425 Pathogen[ P03383] interacts with 3 human partners:{Q92905;Q6P1X5;Q9HD42}

8426 Pathogen[ P03410] interacts with 7 human partners:{Q400G9;Q9UPW5;Q92905;Q96KR4;Q9HD42;Q6P1X5;Q9NY33}

8427 Pathogen[ P14075] interacts with 3 human partners:{Q6P1X5;Q9HD42;Q92905}

8428 Pathogen[ P0C206] interacts with 8 human partners:{Q96KR4;Q8NDL9;Q95630;Q9NY33;Q6P1X5;Q9HD42;Q9UPW5;Q92905}

8429 Pathogen[ P03363] interacts with 3 human partners:{Q6P1X5;Q92905;Q9HD42}

8430 [Cluster 767]GO:0019212+F molecular\_function [name] phosphatase inhibitor activity [def] "Stops, prevents or reduces the activity of a phosphatase, an enzyme which catalyzes of the removal of a phosphate group from a substrate molecule." [GOC

8431 Pathogen[ Q2Q067] interacts with 2 human partners:{O43768;P56211}

8432 Pathogen[ P0C214] interacts with 2 human partners:{O43768;P56211}

8433 Pathogen[ P03346] interacts with 3 human partners:{P56211;O43768;Q9BTT0}

8434 Pathogen[ Q85601] interacts with 3 human partners:{Q9BTT0;P56211;O43768}

8435 Pathogen[ P14079] interacts with 4 human partners:{O43768;P56211;Q9BTT0;O96001}

8436 Pathogen[ P03383] interacts with 2 human partners:{O43768;P56211}

8437 Pathogen[ P03410] interacts with 4 human partners:{Q9BTT0;O43768;O96001;P56211}

8438 Pathogen[ P14075] interacts with 2 human partners:{O43768;P56211}

8439 Pathogen[ P0C206] interacts with 3 human partners:{P56211;Q9BTT0;O43768}

8440 Pathogen[ P03363] interacts with 3 human partners:{O43768;P56211;Q9BTT0}

8441 [Cluster 768]GO:0070095+F molecular\_function [name] fructose-6-phosphate binding [def] "Interacting selectively and non-covalently with fructose 6-phosphate." [GOC

8442 Pathogen[ Q2Q067] interacts with 1 human partners:{Q14397}

8443 Pathogen[ P0C214] interacts with 2 human partners:{Q14397;P16118}

8444 Pathogen[ P03346] interacts with 1 human partners:{Q14397}

8445 Pathogen[ Q85601] interacts with 2 human partners:{P16118;Q14397}

8446 Pathogen[ P14079] interacts with 1 human partners:{Q14397}

8447 Pathogen[ P03383] interacts with 1 human partners:{Q14397}

8448 Pathogen[ P03410] interacts with 2 human partners:{Q14397;P16118}

8449 Pathogen[ P14075] interacts with 2 human partners:{P16118;Q14397}

8450 Pathogen[ P0C206] interacts with 2 human partners:{P16118;Q14397}

8451 Pathogen[ P03363] interacts with 1 human partners:{Q14397}

8452 [Cluster 769]GO:0003785+F molecular\_function [name] actin monomer binding [def] "Interacting selectively and non-covalently with monomeric actin, also known as G-actin." [GOC

8453 Pathogen[ Q2Q067] interacts with 2 human partners:{P29474;Q969V6}

8454 Pathogen[ P0C214] interacts with 2 human partners:{P29474;Q969V6}

8455 Pathogen[ P03346] interacts with 4 human partners:{P29474;Q969V6;Q96KN3;P10916}

8456 Pathogen[ Q85601] interacts with 2 human partners:{Q969V6;P29474}

8457 Pathogen[ P14079] interacts with 2 human partners:{P10916;Q969V6}

8458 Pathogen[ P03383] interacts with 2 human partners:{P29474;Q969V6}

8459 Pathogen[ P03410] interacts with 3 human partners:{P10916;Q969V6;P29474}

8460 Pathogen[ P14075] interacts with 2 human partners:{P29474;Q969V6}

8461 Pathogen[ P0C206] interacts with 2 human partners:{Q969V6;P29474}

8462 Pathogen[ P03363] interacts with 4 human partners:{P29474;Q969V6;Q96KN3;P10916}

8463 [Cluster 770]GO:0008307+F molecular\_function [name] structural constituent of muscle fiber. [def] "The action of a molecule that contributes to the structural integrity of a muscle fiber." [GOC

8464 Pathogen[ Q2Q067] interacts with 6 human partners:{Q9UKX2;P60660;P08727;O15061;P11532;P12883}

8465 Pathogen[ P0C214] interacts with 11 human partners:{O15061;Q9UKX2;P14649;P60660;P11532;P13535;P12883;P08727;P13533;Q9Y623;P35749}

8466 Pathogen[ P03346] interacts with 11 human partners:{P60660;P08727;Q94875;Q15149;O15061;P14649;O76041;Q9UKX2;P11532;P10916;Q9UBF9}

8467 Pathogen[ Q85601] interacts with 11 human partners:{P13533;P14649;P11532;Q9UKX2;P35749;P12883;P08727;P13535;P60660;Q9Y623;O15061}

8468 Pathogen[ P14079] interacts with 14 human partners:{P11532;P07951;Q9UBF9;P10916;Q9UKX2;Q14118;P14649;O15061;Q15149;P60660;O76041;P12883;P08727;O15273}

8469 Pathogen[ P03383] interacts with 5 human partners:{P08727;O15061;Q9UKX2;P11532;P12883}

8470 Pathogen[ P03410] interacts with 16 human partners:{Q9UKX2;Q9UBF9;P10916;O15061;O76041;P11532;O15273;P07951;P12883;Q14118;P14649;P13533;Q15149;P60660;P13535;P08727}

8471 Pathogen[ P14075] interacts with 4 human partners:{P11532;P08727;Q9UKX2;O15061}

8472 Pathogen[ P0C206] interacts with 13 human partners:{O15061;P13533;Q9Y623;P08727;P60660;P50461;P14649;O76041;P12883;P35749;Q9UKX2;P11532;P13535}

8473 Pathogen[ P03363] interacts with 11 human partners:{O15061;P14649;Q9UKX2;Q9UBF9;O94875;P08727;Q15149;P11532;P60660;O76041;P10916}

8474 [Cluster 771]GO:0048273+F molecular\_function [name] mitogen-activated protein kinase p38 binding [def] "Interacting selectively and non-covalently with mitogen-activated protein kinase p38, an enzyme that catalyzes the transfer of phosphate from ATP to hydroxyl side chains on proteins in response to mitogen activation." [GOC

8475 Pathogen[ Q2Q067] interacts with 1 human partners:{O95644}

8476 Pathogen[ P0C214] interacts with 1 human partners:{O95644}

8477 Pathogen[ P03346] interacts with 1 human partners:{O95644}

8478 Pathogen[ Q85601] interacts with 1 human partners:{O95644}

8479 Pathogen[ P14079] interacts with 1 human partners:{O95644}

8480 Pathogen[ P03383] interacts with 1 human partners:{O95644}

8481 Pathogen[ P03410] interacts with 1 human partners:{O95644}

8482 Pathogen[ P14075] interacts with 1 human partners:{O95644}

8483 Pathogen[ P0C206] interacts with 1 human partners:{O95644}

8484 Pathogen[ P03363] interacts with 1 human partners:{O95644}

8485 [Cluster 772]GO:0019207+F molecular\_function [name] kinase regulator activity [def] "Modulates the activity of a kinase, an enzyme which catalyzes of the transfer of a phosphate group, usually from ATP, to a substrate molecule." [GOC

8486 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9P287}

8487 Pathogen[ P0C214] interacts with 1 human partners:{Q9P287}

8488 Pathogen[ P03346] interacts with 1 human partners:{Q9P287}

8489 Pathogen[ Q85601] interacts with 1 human partners:{Q9P287}

8490 Pathogen[ P14079] interacts with 1 human partners:{Q9P287}

8491 Pathogen[ P03383] interacts with 1 human partners:{Q9P287}

8492 Pathogen[ P03410] interacts with 1 human partners:{Q9P287}

8493 Pathogen[ P14075] interacts with 1 human partners:{Q9P287}

8494 Pathogen[ P0C206] interacts with 1 human partners:{Q9P287}

8495 Pathogen[ P03363] interacts with 1 human partners:{Q9P287}

8496 [Cluster 773]GO:0016209+F molecular\_function [name] antioxidant activity [def] "Inhibition of the reactions brought about by dioxygen (O2) or peroxides. Usually the antioxidant is effective because it can itself be more easily oxidized than the substance protected. The term is often applied to components that can trap free radicals, thereby breaking the chain reaction that normally leads to extensive biological damage." [ISBN

8497 Pathogen[ Q2Q067] interacts with 3 human partners:{Q06830;Q9BQE4;Q96A56}

8498 Pathogen[ P0C214] interacts with 5 human partners:{P08294;Q9BRX8;Q06830;Q96A56;Q9BQE4}

8499 Pathogen[ P03346] interacts with 4 human partners:{P07148;Q96A56;P63302;Q06830}

8500 Pathogen[ Q85601] interacts with 3 human partners:{Q96A56;Q06830;Q9BQE4}

8501 Pathogen[ P14079] interacts with 4 human partners:{Q96A56;Q9BQE4;Q9BRX8;P63302}

8502 Pathogen[ P03383] interacts with 2 human partners:{Q96A56;Q9BQE4}

8503 Pathogen[ P03410] interacts with 5 human partners:{P63302;Q9BQE4;Q96A56;Q9BRX8;Q06830}

8504 Pathogen[ P14075] interacts with 3 human partners:{Q9BQE4;P63302;Q96A56}

8505 Pathogen[ P0C206] interacts with 5 human partners:{Q96A56;Q9BQE4;P63302;Q06830;Q9BRX8}

8506 Pathogen[ P03363] interacts with 2 human partners:{Q96A56;P63302}

8507 [Cluster 774]GO:0019905+F molecular\_function [name] syntaxin binding [def] "Interacting selectively and non-covalently with a syntaxin, a SNAP receptor involved in the docking of synaptic vesicles at the presynaptic zone of a synapse." [ISBN

8508 Pathogen[ Q2Q067] interacts with 7 human partners:{Q9UL45;O00186;P40222;P54920;Q8N3L3;Q9NUQ3;Q9BZA5}

8509 Pathogen[ P0C214] interacts with 8 human partners:{O00186;P54920;Q5T447;Q9NUQ3;Q8N3L3;Q9UL45;Q9BZA5;P40222}

8510 Pathogen[ P03346] interacts with 9 human partners:{Q9H115;Q5T447;O00186;Q9NUQ3;Q8N3L3;P54920;Q9UL45;Q9BZA5;P40222}

8511 Pathogen[ Q85601] interacts with 6 human

8512 partners:{000186;P54920;Q8N3L3;P40222;Q9BZA5;Q9NUQ3}  
Pathogen[ P14079] interacts with 12 human

8513 partners:{014810;P40222;Q9BZA5;Q9NUQ3;000186;Q8N3L3;Q6PUV4;Q9UL45;Q9H115;Q8WVH0;Q7Z7G2;P54920}  
Pathogen[ P03383] interacts with 6 human

8514 partners:{Q8N3L3;P54920;Q9NUQ3;000186;Q9BZA5;P40222}  
Pathogen[ P03410] interacts with 12 human

8515 partners:{Q9BZA5;Q9H115;014810;Q8N3L3;Q8WVH0;Q9UL45;Q7Z7G2;Q9NUQ3;Q6PUV4;P40222;000186;P54920}  
Pathogen[ P14075] interacts with 6 human

8516 partners:{000186;P40222;P54920;Q9NUQ3;Q9BZA5;Q8N3L3}  
Pathogen[ P0C206] interacts with 9 human

8517 partners:{Q9NUQ3;Q9UL45;P54920;Q9BZA5;Q8N3L3;Q7Z7G2;Q6PUV4;P40222;000186}  
Pathogen[ P03363] interacts with 7 human

8518 partners:{P54920;P40222;Q9BZA5;Q8N3L3;000186;Q9NUQ3;Q5T447}  
[Cluster 775]GO:0008094+F molecular\_function [name] DNA-dependent ATPase activity [def] "Catalysis of the reaction

8519 Pathogen[ Q2Q067] interacts with 21 human  
partners:{Q13889;P51531;P32780;Q92759;P38935;O43542;Q06609;P11388;Q09028;O43502;P51948;P51532;P50613;Q03468;Q13216;Q9UNY4;Q9HCK8;P28370;Q12830;Q13888;P51946}

8520 Pathogen[ P0C214] interacts with 22 human  
partners:{P51946;Q06609;P50613;P20585;P38935;Q09028;Q13216;P51948;P28370;O43542;Q9UNY4;O43502;Q9HCK8;P11388;P32780;Q13888;Q92614;P51531;Q03468;Q92759;Q12830;P51532}

8521 Pathogen[ P03346] interacts with 25 human  
partners:{Q12830;P38935;Q06609;P11388;O43502;P51532;Q92614;Q13888;Q13889;Q03468;O15315;Q09028;P20585;Q9HCK8;P51946;O43542;O75771;Q9UNY4;Q13216;Q92759;P28370;P51531;O43543;P51948;P32780}

8522 Pathogen[ Q85601] interacts with 24 human  
partners:{P51946;Q92614;O43502;O15315;P38935;Q13888;Q13216;P51948;O43542;Q12830;P51531;Q03468;P51532;Q92759;P32780;P20585;P11388;P50613;Q09028;Q9HCK8;P28370;P19447;Q06609;Q9UNY4}

8523 Pathogen[ P14079] interacts with 29 human  
partners:{O43196;P11388;O15315;P20585;P51946;Q92614;Q9UNY4;P28370;P51532;P51531;Q13216;Q13889;P50613;Q13888;Q12830;Q92759;Q9HCK8;O43502;O43543;P32780;Q96FC9;Q03468;P38935;P52701;Q09028;Q06609;P19447;O43542;P51948}

8524 Pathogen[ P03383] interacts with 18 human  
partners:{Q09028;Q12830;Q06609;Q13216;P51948;Q13888;P28370;P50613;P51946;Q03468;P51531;Q92759;Q9HCK8;P51532;O43542;P38935;Q9UNY4;P32780}

8525 Pathogen[ P03410] interacts with 29 human  
partners:{Q9UNY4;P20585;Q13889;O15315;Q92614;O43542;P51946;Q12830;Q03468;P50613;P38935;P52701;Q09028;O43502;P19447;Q9HCK8;P51532;O43196;P11388;Q13216;P51948;P51531;Q13888;O43543;Q96FC9;P32780;Q92759;P28370;Q06609}

8526 Pathogen[ P14075] interacts with 19 human  
partners:{Q92759;P51532;Q9UNY4;P50613;P38935;Q13216;Q03468;Q09028;Q12830;Q13889;Q9HCK8;P51531;P28370;O43542;P51946;P32780;Q06609;P51948;Q13888}

8527 Pathogen[ P0C206] interacts with 27 human  
partners:{O43542;O43502;Q9HCK8;P38935;P51532;Q9UNY4;P52701;P51531;Q03468;Q13216;P19447;Q13888;P50613;O15315;Q92759;Q92614;P28370;P32780;Q13889;O43543;Q06609;P20585;Q09028;P11388;Q12830;P51946;P51948}

8528 Pathogen[ P03363] interacts with 21 human  
partners:{Q12830;Q09028;Q13888;P32780;Q92759;P51532;P51946;Q9UNY4;P20585;Q9HCK8;O43542;Q92614;Q03468;O75771;P28370;Q06609;Q13216;P51531;P38935;O43502;O15315}

8529 [Cluster 776]GO:0004820+F molecular\_function [name] glycine-tRNA ligase activity [def] "Catalysis of the reaction

8530 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9UHN1;P41250}

8531 Pathogen[ P0C214] interacts with 2 human partners:{P41250;Q9UHN1}

8532 Pathogen[ P03346] interacts with 2 human partners:{Q9UHN1;P41250}

8533 Pathogen[ Q85601] interacts with 2 human partners:{P41250;Q9UHN1}

8534 Pathogen[ P14079] interacts with 2 human partners:{P41250;Q9UHN1}

8535 Pathogen[ P03383] interacts with 2 human partners:{Q9UHN1;P41250}

8536 Pathogen[ P03410] interacts with 2 human partners:{P41250;Q9UHN1}

8537 Pathogen[ P14075] interacts with 2 human partners:{P41250;Q9UHN1}

8538 Pathogen[ P0C206] interacts with 2 human partners:{Q9UHN1;P41250}

8539 Pathogen[ P03363] interacts with 2 human partners:{P41250;Q9UHN1}

8540 [Cluster 777]GO:000405+F molecular\_function [name] bubble DNA binding [def] "Interacting selective with DNA that contains a bubble. A bubble occurs when DNA contains a region of unpaired, single-stranded DNA flanked on both sides by regions of paired, double-stranded DNA." [GOC

8541 Pathogen[ Q2Q067] interacts with 2 human partners:{Q01831;P28715}

8542 Pathogen[ P0C214] interacts with 2 human partners:{P28715;Q01831}

8543 Pathogen[ P03346] interacts with 2 human partners:{P28715;Q01831}

8544 Pathogen[ Q85601] interacts with 2 human partners:{Q01831;P28715}

8545 Pathogen[ P14079] interacts with 3 human partners:{Q8TAT5;P28715;Q01831}

8546 Pathogen[ P03383] interacts with 1 human partners:{Q01831}

8547 Pathogen[ P03410] interacts with 3 human partners:{P28715;Q8TAT5;Q01831}

8548 Pathogen[ P14075] interacts with 1 human partners:{Q01831}

8549 Pathogen[ P0C206] interacts with 3 human partners:{P28715;Q8TAT5;Q01831}  
8550 Pathogen[ P03363] interacts with 1 human partners:{Q01831}  
8551 [Cluster 778]GO:0004067+F molecular\_function [name] asparaginase activity [def]  
"Catalysis of the reaction  
8552 Pathogen[ Q2Q067] interacts with 1 human partners:{Q7L266}  
8553 Pathogen[ P0C214] interacts with 1 human partners:{Q7L266}  
8554 Pathogen[ P03346] interacts with 1 human partners:{Q7L266}  
8555 Pathogen[ Q85601] interacts with 1 human partners:{Q7L266}  
8556 Pathogen[ P14079] interacts with 1 human partners:{Q7L266}  
8557 Pathogen[ P03383] interacts with 1 human partners:{Q7L266}  
8558 Pathogen[ P03410] interacts with 1 human partners:{Q7L266}  
8559 Pathogen[ P14075] interacts with 1 human partners:{Q7L266}  
8560 Pathogen[ P0C206] interacts with 1 human partners:{Q7L266}  
8561 Pathogen[ P03363] interacts with 1 human partners:{Q7L266}  
8562 [Cluster 779]GO:0008135+F molecular\_function [name] translation factor activity,  
nucleic acid binding [def] "Functions during translation by binding nucleic acids  
during polypeptide synthesis at the ribosome." [GOC  
8563 Pathogen[ Q2Q067] interacts with 14 human  
partners:{P29692;Q13889;P47813;P78344;Q9NR50;P41567;Q9H2K0;P20042;O60573;Q04637;Q8NE7  
1;P60842;Q15056;Q13888}  
8564 Pathogen[ P0C214] interacts with 15 human  
partners:{P60842;P47813;P78344;P29692;Q15056;P41091;Q8NE71;Q9NR50;P41567;Q04637;Q1388  
8;Q9H2K0;P20042;Q05639;O60573}  
8565 Pathogen[ P03346] interacts with 16 human  
partners:{P41567;P41091;P47813;Q13888;P78344;O60573;Q15056;P29692;P60842;Q13889;Q8NE7  
1;Q9H2K0;Q04637;Q92616;P20042;Q9NR50}  
8566 Pathogen[ Q85601] interacts with 13 human  
partners:{P47813;P41091;Q13888;Q04637;Q9NR50;P20042;O60573;P78344;P60842;Q8NE71;P4156  
7;P29692;Q05639}  
8567 Pathogen[ P14079] interacts with 19 human  
partners:{P20042;P60842;Q15056;O75879;Q9H2K0;P47813;P41567;P41091;O43432;P46199;Q1388  
9;P29692;P78344;O60573;Q9NR50;Q13888;Q8NE71;Q92616;Q04637}  
8568 Pathogen[ P03383] interacts with 11 human  
partners:{Q8NE71;Q13888;P41567;O60573;P20042;Q9NR50;P47813;Q9H2K0;P78344;Q04637;P2969  
2}  
8569 Pathogen[ P03410] interacts with 19 human  
partners:{Q9NR50;Q13889;Q8NE71;O75879;Q9H2K0;P20042;P46199;O43432;P47813;P41567;Q1505  
6;P60842;Q92616;Q13888;O60573;P41091;Q04637;P29692;P78344}  
8570 Pathogen[ P14075] interacts with 12 human  
partners:{P20042;P78344;P29692;P47813;Q9H2K0;O60573;Q13889;Q04637;Q8NE71;Q9NR50;P4156  
7;Q13888}  
8571 Pathogen[ P0C206] interacts with 15 human  
partners:{P41091;P20042;P41567;Q9NR50;Q92616;Q13888;Q9H2K0;P47813;Q8NE71;Q13889;P7834  
4;O60573;Q04637;P29692;P60842}  
8572 Pathogen[ P03363] interacts with 14 human  
partners:{Q13888;Q15056;P41091;P41567;Q9NR50;P29692;P20042;P47813;P60842;Q92616;Q8NE7  
1;O60573;P78344;Q04637}  
8573 [Cluster 780]GO:0070063+F molecular\_function [name] RNA polymerase binding [def]  
"Interacting selectively and non-covalently with an RNA polymerase molecule or complex."  
[GOC  
8574 Pathogen[ Q2Q067] interacts with 2 human partners:{Q12962;Q9NYV6}  
8575 Pathogen[ P0C214] interacts with 2 human partners:{Q12962;Q9NYV6}  
8576 Pathogen[ P03346] interacts with 2 human partners:{Q12962;Q9NYV6}  
8577 Pathogen[ Q85601] interacts with 2 human partners:{Q9NYV6;Q12962}  
8578 Pathogen[ P14079] interacts with 2 human partners:{Q9NYV6;Q12962}  
8579 Pathogen[ P03383] interacts with 2 human partners:{Q9NYV6;Q12962}  
8580 Pathogen[ P03410] interacts with 2 human partners:{Q12962;Q9NYV6}  
8581 Pathogen[ P14075] interacts with 2 human partners:{Q12962;Q9NYV6}  
8582 Pathogen[ P0C206] interacts with 2 human partners:{Q12962;Q9NYV6}  
8583 Pathogen[ P03363] interacts with 3 human partners:{Q12962;Q9UPN6;Q9NYV6}  
8584 [Cluster 781]GO:0000104+F molecular\_function [name] succinate dehydrogenase activity  
[def] "Catalysis of the reaction  
8585 Pathogen[ Q2Q067] interacts with 1 human partners:{P31040}  
8586 Pathogen[ P0C214] interacts with 2 human partners:{Q99643;O14521}  
8587 Pathogen[ P03346] interacts with 1 human partners:{P31040}  
8588 Pathogen[ Q85601] interacts with 1 human partners:{P31040}  
8589 Pathogen[ P14079] interacts with 2 human partners:{P31040;O14521}  
8590 Pathogen[ P03383] interacts with 1 human partners:{P31040}  
8591 Pathogen[ P03410] interacts with 3 human partners:{P31040;Q99643;O14521}  
8592 Pathogen[ P14075] interacts with 1 human partners:{P31040}  
8593 Pathogen[ P0C206] interacts with 2 human partners:{O14521;P31040}  
8594 Pathogen[ P03363] interacts with 1 human partners:{P31040}  
8595 [Cluster 782]GO:0035538+F molecular\_function [name] carbohydrate response element  
binding [def] "Interacting selectively and non-covalently with the carbohydrate response  
element (ChoRE) found in the promoters of genes whose expression is regulated in response  
to carbohydrates, such as the triglyceride synthesis genes." [GOC

8596 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NP71}

8597 Pathogen[ P0C214] interacts with 1 human partners:{Q9NP71}

8598 Pathogen[ P03346] interacts with 1 human partners:{Q9NP71}

8599 Pathogen[ Q85601] interacts with 1 human partners:{Q9NP71}

8600 Pathogen[ P14079] interacts with 1 human partners:{Q9NP71}

8601 Pathogen[ P03383] interacts with 1 human partners:{Q9NP71}

8602 Pathogen[ P03410] interacts with 1 human partners:{Q9NP71}

8603 Pathogen[ P14075] interacts with 1 human partners:{Q9NP71}

8604 Pathogen[ P0C206] interacts with 1 human partners:{Q9NP71}

8605 Pathogen[ P03363] interacts with 1 human partners:{Q9NP71}

8606 [Cluster 783]GO:0032422+F molecular\_function [name] purine-rich negative regulatory element binding [def] "Interacting selectively and non-covalently with a 30-bp purine-rich negative regulatory element\_ the best characterized such element is found in the first intronic region of the rat cardiac alpha-myosin heavy chain gene, and contains two palindromic high-affinity Ets-binding sites (CTTCCCTGGAAG). The presence of this element restricts expression of the gene containing it to cardiac myocytes." [GOC

8607 Pathogen[ Q2Q067] interacts with 3 human partners:{P41970;Q00577;Q96QR8}

8608 Pathogen[ P0C214] interacts with 3 human partners:{P41970;Q96QR8;Q00577}

8609 Pathogen[ P03346] interacts with 3 human partners:{Q96QR8;Q00577;P41970}

8610 Pathogen[ Q85601] interacts with 3 human partners:{Q96QR8;P41970;Q00577}

8611 Pathogen[ P14079] interacts with 3 human partners:{Q96QR8;Q00577;P41970}

8612 Pathogen[ P03383] interacts with 3 human partners:{P41970;Q00577;Q96QR8}

8613 Pathogen[ P03410] interacts with 3 human partners:{Q00577;P41970;Q96QR8}

8614 Pathogen[ P14075] interacts with 3 human partners:{Q96QR8;Q00577;P41970}

8615 Pathogen[ P0C206] interacts with 3 human partners:{Q96QR8;P41970;Q00577}

8616 Pathogen[ P03363] interacts with 3 human partners:{Q96QR8;P41970;Q00577}

8617 [Cluster 784]GO:0005521+F molecular\_function [name] lamin binding [def] "Interacting selectively and non-covalently with lamin\_ any of a group of intermediate-filament proteins that form the fibrous matrix on the inner surface of the nuclear envelope." [GOC

8618 Pathogen[ Q2Q067] interacts with 7 human partners:{Q9UH99;P42167;O60238;Q8NF91;Q14739;P42166;Q9UHQ1}

8619 Pathogen[ P0C214] interacts with 6 human partners:{Q14739;P42166;Q9UH99;Q9UHQ1;Q8NF91;O60238}

8620 Pathogen[ P03346] interacts with 8 human partners:{Q14739;O60238;Q9UH99;Q13835;P42166;Q8NF91;P42167;Q9UHQ1}

8621 Pathogen[ Q85601] interacts with 6 human partners:{P42166;Q9UH99;Q9UHQ1;Q8NF91;O60238;Q14739}

8622 Pathogen[ P14079] interacts with 9 human partners:{Q9UHQ1;Q13835;Q14739;P42167;Q5JTV8;P42166;Q8NF91;Q9UH99;O60238}

8623 Pathogen[ P03383] interacts with 3 human partners:{Q9UH99;Q9UHQ1;O60238}

8624 Pathogen[ P03410] interacts with 9 human partners:{Q14739;Q9UH99;Q13835;P42166;Q9UHQ1;P42167;Q5JTV8;O60238;Q8NF91}

8625 Pathogen[ P14075] interacts with 4 human partners:{O60238;Q9UHQ1;Q9UH99;P42167}

8626 Pathogen[ P0C206] interacts with 8 human partners:{Q14739;Q9UHQ1;Q9UH99;O60238;Q8NF91;P42166;Q13835;P42167}

8627 Pathogen[ P03363] interacts with 8 human partners:{Q8NF91;Q13835;P42167;Q9UHQ1;Q14739;O60238;P42166;Q9UH99}

8628 [Cluster 785]GO:0035539+F molecular\_function [name] 8-oxo-7,8-dihydrodeoxyguanosine triphosphate pyrophosphatase activity [def] "Catalysis of the reaction

8629 Pathogen[ Q2Q067] interacts with 1 human partners:{P36639}

8630 Pathogen[ P0C214] interacts with 1 human partners:{P36639}

8631 Pathogen[ P03346] interacts with 1 human partners:{P36639}

8632 Pathogen[ Q85601] interacts with 1 human partners:{P36639}

8633 Pathogen[ P14079] interacts with 1 human partners:{P36639}

8634 Pathogen[ P03383] interacts with 1 human partners:{P36639}

8635 Pathogen[ P03410] interacts with 1 human partners:{P36639}

8636 Pathogen[ P14075] interacts with 1 human partners:{P36639}

8637 Pathogen[ P0C206] interacts with 1 human partners:{P36639}

8638 Pathogen[ P03363] interacts with 1 human partners:{P36639}

8639 [Cluster 786]GO:0005124+F molecular\_function [name] scavenger receptor binding [def] "Interacting selectively and non-covalently with scavenger receptors, a family of proteins that are expressed on myeloid cells and are involved in the uptake of effete cellular components and foreign particles." [GOC

8640 Pathogen[ Q2Q067] interacts with 1 human partners:{Q5T2W1}

8641 Pathogen[ P0C214] interacts with 1 human partners:{Q5T2W1}

8642 Pathogen[ P03346] interacts with 1 human partners:{Q5T2W1}

8643 Pathogen[ Q85601] interacts with 1 human partners:{Q5T2W1}

8644 Pathogen[ P14079] interacts with 1 human partners:{Q5T2W1}

8645 Pathogen[ P03383] interacts with 1 human partners:{Q5T2W1}

8646 Pathogen[ P03410] interacts with 1 human partners:{Q5T2W1}

8647 Pathogen[ P14075] interacts with 1 human partners:{Q5T2W1}

8648 Pathogen[ P0C206] interacts with 1 human partners:{Q5T2W1}

8649 Pathogen[ P03363] interacts with 1 human partners:{Q5T2W1}

8650 [Cluster 787]GO:0008093+F molecular\_function [name] cytoskeletal adaptor activity [def] "The binding activity of a molecule that brings together a cytoskeletal protein and

one or more other molecules, permitting them to function in a coordinated way." [GOC

8651 Pathogen[ Q2Q067] interacts with 3 human partners:{O43639;P16333;Q9NR46}

8652 Pathogen[ P0C214] interacts with 5 human partners:{P16157;O43639;Q9NR46;P16333;Q96G01}

8653 Pathogen[ P03346] interacts with 8 human partners:{Q96G01;O43639;O94875;Q9NQY0;P16157;Q9Y371;P16333;Q9NR46}

8654 Pathogen[ Q85601] interacts with 5 human partners:{P16157;P16333;O43639;Q96G01;Q9NR46}

8655 Pathogen[ P14079] interacts with 6 human partners:{Q9NR46;P16157;Q9Y371;P16333;Q96G01;O43639}

8656 Pathogen[ P03383] interacts with 2 human partners:{Q9NR46;P16333}

8657 Pathogen[ P03410] interacts with 7 human partners:{Q9NR46;P16157;O43639;P16333;Q9NQY0;Q96G01;Q9Y371}

8658 Pathogen[ P14075] interacts with 2 human partners:{Q9NR46;P16333}

8659 Pathogen[ P0C206] interacts with 6 human partners:{Q9NR46;P16157;Q9NQY0;P16333;O43639;Q96G01}

8660 Pathogen[ P03363] interacts with 7 human partners:{P16157;Q9NR46;Q8NHY3;O43639;O94875;P16333;Q9NQY0}

8661 [Cluster 788]GO:0003714+F molecular\_function [name] transcription corepressor activity [def] "Interacting selectively and non-covalently with a repressing transcription factor and also with the basal transcription machinery in order to stop, prevent, or reduce the frequency, rate or extent of transcription. Cofactors generally do not bind DNA, but rather mediate protein-protein interactions between repressive transcription factors and the basal transcription machinery." [GOC

8662 Pathogen[ Q2Q067] interacts with 121 human partners:{Q9NZI7;P25490;Q6VMQ6;Q9Y6X8;Q03923;Q99583;O75461;P56524;P15884;O75925;Q8N9R8;Q9Y2D1;Q9NPF5;Q01094;Q9UKV0;Q8WW38;P46937;Q9NR55;Q9Y3T9;Q01130;Q99816;Q9Y2X9;P54259;P10828;P18847;P41970;A6NIX2;Q9NQ87;O43255;O43439;P37275;Q9NVW2;O00257;Q9NZI6;P50548;Q9ULV5;Q05195;Q9UIS9;Q01201;Q96AQ6;O15379;P50616;Q96ST3;P35638;Q9NPI1;P54198;Q04727;Q96T58;Q8WUF5;O95551;Q99471;O75182;P48552;O75446;P27695;Q9UBC3;O75381;Q96IF1;Q9UQL6;O43593;Q6W2J9;Q15699;Q9UGP4;Q9UKY1;P12755;O14948;Q96GC6;Q01658;O43251;O75496;Q8IZ40;Q9GZV5;Q719H9;P51532;Q15742;Q15327;Q9Y6B2;O60907;Q8WUI4;Q04725;O14770;Q86X95;Q96HA7;Q96R5;Q15466;Q96RU7;Q15583;P61201;P12757;Q9BZK7;P31946;Q13901;P16989;Q9Y618;Q9HBM6;Q04724;P80723;Q8N488;P47928;O60682;Q86U70;Q14582;Q8IY57;Q96IZ0;Q15637;P23497;Q8NB12;P06733;O75376;Q16384;Q8IXJ9;Q9UMX1;P49711;Q16649;P52737;Q14207;Q66K89;Q13227;O43660;O00422;Q9UKL3}

8663 Pathogen[ P0C214] interacts with 117 human partners:{P41970;Q9UGP4;O95551;Q15742;P54198;Q9Y3T9;Q15327;Q05195;P27695;Q96T58;Q04727;P16989;Q14207;O75461;P12757;Q6VMQ6;Q8WUF5;O75925;Q96IZ0;P48552;P15884;O60907;O75496;Q16384;Q9NR55;P17275;P50548;Q15637;P46937;P61201;P56524;Q9GZV5;Q6W2J9;P37275;O75381;Q04724;Q13901;Q9NZI7;Q2VWA4;Q9UIS9;Q01094;O75446;A6NIX2;O43439;Q8IXJ9;Q01201;P47928;Q9UKL3;Q8N488;Q8N9R8;Q9HBM6;O14948;Q86U70;Q9Y6B2;O00422;Q9NVW2;Q8IZ40;P18847;Q9UKV0;Q8WW38;O00257;P50616;O75376;O43593;Q96GC6;Q9Y6X8;Q03923;O15379;P06733;Q9Y2D1;P12755;Q96AQ6;Q13227;Q9Y2X9;Q9ULV5;P23497;Q99816;P49711;Q96RU7;Q9NZI6;Q719H9;Q9NPI1;Q04725;Q99471;Q01658;Q9BZK7;Q96ST3;P80723;O14770;P10828;Q8WUI4;O43251;Q9NQ87;P31946;Q8NB12;Q96R5;O43255;Q9NQ87;Q9Y618;Q96HA7;Q15699;Q9UMX1;Q99583;Q86X95;Q66K89;O43660;Q9UQL6;P52737;P35638;Q15466;Q9NPF5;P51532;P54259;Q8IY57;O75182;Q01130;P17980}

8664 Pathogen[ P03346] interacts with 144 human partners:{Q96ST3;Q9NZU5;P46937;Q13263;Q86U70;Q96HA7;Q14207;Q9UGP4;Q01201;O60907;P18847;O95551;O75446;Q16384;Q9Y4X4;P12757;P35638;Q02535;Q8WW38;O15379;Q9NQR1;Q99471;P51532;Q9GZV5;Q96AQ6;Q99626;P17275;Q15466;Q9NZI6;P25490;Q15583;P80723;Q15637;P50548;Q9NR55;P56524;Q15327;Q9NPI1;O43255;Q8IZ40;Q99816;P52737;Q9NQ69;Q96IF1;Q9UBC3;O00257;Q9Y2D1;P16989;O60682;Q9H165;Q03923;Q01094;Q2VWA4;Q66K89;O75182;P06733;O00422;Q14919;O75381;O43593;P51843;O75925;Q15699;Q14582;Q9UKL3;Q15742;Q96IZ0;Q9UIS9;Q8IYM9;Q13227;O14948;Q96R5;O43660;Q6VMQ6;Q04725;Q04724;Q9HBM6;Q86VZ6;P50616;P49711;Q9Y6X8;P84550;Q8NB12;P37275;Q9NQ87;Q16649;A6NIX2;Q9Y3T9;O43439;Q9Y2Y4;Q8WUI4;O43251;O75376;P50539;Q8WUF5;Q05195;Q96T58;P09630;Q96RU7;Q92481;P61201;P31946;Q9UKV0;Q01130;Q9BZK7;Q04727;O75461;P41970;P10828;Q9UGL1;Q01658;Q9Y6B2;P48552;P23497;Q8IXJ9;P56545;Q9UKY1;P27695;Q9Y2X9;Q99583;Q8N488;Q86X95;Q8IY57;Q9ULV5;Q9H9S0;Q9Y618;Q96GC6;Q9UMX1;Q9UQL6;Q8N9R8;P54198;Q6W2J9;P54259;O14770;Q9NZI7;Q13901;O75506;Q9NVW2;P15884;O75496;O00488;P47928;Q9NPF5;Q99581}

8665 Pathogen[ Q85601] interacts with 127 human partners:{P54259;Q96IZ0;Q99816;O75182;Q15637;Q9NZU5;O75496;P54198;Q9UKV0;P31946;Q9UKL3;Q96HA7;Q15466;P50539;Q16384;Q04724;Q9ULV5;Q8N9R8;Q9UQL6;Q8NB12;Q86U70;P50548;Q8WW38;Q01130;A6NIX2;Q9NQR1;Q99471;O60907;Q05195;P61201;P41970;Q9Y2Y4;Q9Y2X9;P12757;P25490;Q8IXJ9;Q9Y618;P06733;Q15583;Q9GZV5;O60682;O43439;Q15742;Q03923;Q2VWA4;P80723;P49711;P12755;Q969R5;Q9HBM6;Q13263;Q9Y6B2;Q04725;P51532;O75461;Q9UIS9;Q13901;O14948;Q14582;Q16649;P18847;Q15699;Q04727;Q8IYM9;Q9Y6X8;Q96GC6;Q9NQ87;Q15327;O75376;Q01201;Q01658;Q8WUF5;Q96T58;O75446;Q14207;P50616;Q99583;Q96RU7;Q9NZI6;Q96IF1;Q9Y3T9;Q9NPI1;Q9Y2D1;Q9UGP4;P37275;Q9BZK7;P56524;O15379;P52737;P46937;Q9UKY1;O43660;P48552;P10828;Q8IZ40;O00422;Q8WUI4;Q8N488;O43593;Q6VMQ6;O00257;Q8IY57;O75381;O43255;P12755;O75925;P16989;Q9UMX1;P27695;Q96AQ6;Q13227;O95551;Q01094;O14770;Q9NZI7;Q86X95;Q9NVW2;Q9NR55;P15884;Q719H9;P47928;Q9UBC3;Q6W2J9;P35638;Q9NPF5;Q96ST3}

8666 Pathogen[ P14079] interacts with 125 human partners:{Q9UQL6;Q15637;P48552;O15379;Q04725;O00422;Q9NPI1;P12755;Q9Y2Y4;Q9BZK7;Q9UIS9;Q9GZV5;P61201;Q16649;Q8IXJ9;Q99581;O43439;O60682;Q96ST3;Q8WUF5;P10828;Q14207;Q15583;Q8WUI4;Q13901;Q86U70;Q2VWA4;P52737;Q15699;Q86VZ6;P51532;Q15742;O60907;Q9UMX1;P54198;



Q9UKV0;O75446;Q03923;Q9NZU5;P46937;O75461;P06733;P23497;Q719H9;Q01201;O75506;Q9UKY1;Q6W2J9;Q9NZI7;Q9UKL3;Q99583;Q9Y3T9;Q6VMQ6;Q9UBC3;O00257;Q96HA7;P16989;Q969R5;Q9NPF5;Q8IY57;Q96IF1;P31946;Q9NZI6;Q66K89;Q9NQR1;Q8NB12;A6NIX2;P17275;Q16384;Q96IZ0;Q9Y2X9;Q96AQ6;P27695;Q15327;P50539;Q13227;P35638;Q95551;Q9Y4X4;Q96RU7;O00488;P50548;Q05195;Q8N488;O14770;Q04724;O75925;Q8N9R8;O75182;O75376;P54259;P15884;Q9NR55;P12757;O14948;O75381;Q9NQ87;P80723;Q99471;Q15466;Q9Y6B2;Q8IZ40;P56524;Q99816;P25490;P50616;Q9Y6X8;Q14582;Q9ULV5;Q01094;Q86X95;Q01658;O43593;P41970;P49711;P17980;O75496;Q04727;Q8WW38;P47928;P37275;Q9UGP4;Q9HBM6;Q96GC6;Q96T58}

8667 Pathogen[ P03383] interacts with 107 human  
partners: {Q9Y618;Q8IXJ9;O75182;Q719H9;P16989;O75925;Q9UKL3;P49711;Q01094;O75376;Q9UQL6;P31946;Q8WW38;Q86U70;A6NIX2;Q04727;O60907;Q96AQ6;P18847;O00257;P61201;Q96IZ0;P37275;Q9NQ87;Q15742;Q6VMQ6;P35638;O75461;Q9HBM6;Q99816;Q03923;Q04724;Q66K89;Q9Y3T9;O14770;Q6W2J9;Q9Y6B2;O14948;Q8N488;Q9ULV5;Q9NPF5;Q01130;Q05195;Q9UGP4;Q04725;O00422;Q15466;O75381;Q99471;Q01201;Q9Y6X8;Q8IZ40;O15379;O43255;Q96T58;Q8WUF5;Q14207;P52737;P50616;Q99583;Q96RU7;O75446;Q9NZI6;P23497;Q96GC6;Q15327;Q9UKV0;Q9NZI7;Q9BZK7;P56524;P41970;Q8IY57;P51532;P80723;Q9NPI1;P12757;Q13227;Q96ST3;Q96HA7;P50548;P27695;O95551;P48552;Q9Y2X9;Q969R5;P10828;P47928;Q8WUI4;Q86X95;Q9Y2D1;Q15699;P17275;P06733;Q8N9R8;Q15637;P46937;Q01658;Q9GZV5;Q9UMX1;P54198;O43439;Q9NQR1;Q16384;Q13901;P54259;Q9UIS9;O75496}

8668 Pathogen[ P03410] interacts with 124 human  
partners: {Q96AQ6;Q9UKV0;O43439;Q13227;O75461;O75925;P35638;P54198;Q6W2J9;P37275;Q15637;P12755;Q96K89;P18847;P16989;O14948;O60682;Q9NQ87;Q9Y2D1;O75446;Q9UGP4;Q9NPF5;P15884;Q14207;P06733;O75182;Q04724;Q96GC6;P10828;Q9Y3T9;O75381;Q03923;O75376;Q15327;Q96ST3;Q96T58;Q8WW38;Q01201;P25490;Q6VMQ6;Q8WUI4;Q9GZV5;Q9UQL6;Q96IF1;Q99816;Q9Y2X9;Q15583;A6NIX2;O95551;Q99471;Q719H9;Q8IY57;Q16649;Q9HBM6;P52737;Q9Y6B2;Q2VWA4;P17275;Q9NQR1;O43660;O15379;P56524;Q8IXJ9;Q86U70;Q01658;P47928;O75506;Q99583;Q96IZ0;Q04727;Q8N9R8;Q15466;P12757;Q9Y6X8;P46937;Q15699;P51532;Q86X95;Q8N488;P49711;Q9UKL3;Q9UBC3;P61201;Q96RU7;Q13901;P50539;Q01130;Q9Y2Y4;Q15742;Q9UIS9;P27695;O75496;Q01094;Q8NB12;P54259;P41970;P80723;Q9NZI6;Q9BZK7;P50548;Q8IZ40;Q16384;Q9ULV5;O00422;O00257;Q9NZI7;Q14582;Q9Y618;P48552;Q9NR55;Q9UKY1;Q9UMX1;Q96HA7;O60907;Q969R5;O14770;Q9NPI1;P17980;O43593;P31946;Q05195;Q04725;P50616;Q8WUF5}

8669 Pathogen[ P14075] interacts with 108 human  
partners: {Q04727;P06733;Q96AQ6;Q96ST3;Q9GZV5;Q86U70;Q86X95;P23497;Q14207;P50548;Q969R5;P16989;P52737;Q8IXJ9;Q9NPI1;Q8N488;Q04725;Q9Y2D1;Q8IY57;P10828;Q8N9R8;P27695;P51532;Q01201;Q01658;P80723;P17275;Q13901;O75446;Q96T58;P18847;P61201;Q9UGP4;Q15327;P56524;O00422;Q16384;Q01130;O75925;Q9NQR1;P35638;Q719H9;P47928;Q8WUF5;Q9UKV0;Q8WW38;Q9NZI7;Q9NQ87;O75182;Q05195;P54198;Q96IZ0;Q9Y618;O75376;O43255;O75381;P12757;O00257;Q9NPF5;Q9UKL3;O14770;Q9ULV5;O14948;Q96HA7;Q9Y6B2;Q6W2J9;Q15637;Q6VMQ6;Q9UIS9;P50616;Q9Y6X8;A6NIX2;O60907;Q13227;Q01094;Q15742;Q96RU7;Q9NZI6;O15379;Q66K89;Q9Y2X9;Q9Y3T9;P49711;Q9BZK7;P15884;Q15699;P46937;P48552;O43439;Q15466;Q9UQL6;Q04724;Q96GC6;P54259;P31946;Q03923;P41970;Q99816;Q99583;P37275;Q8WUI4;O75496;Q9UMX1;Q99471;O75461;Q8IZ40;O95551;Q9HBM6}

8670 Pathogen[ P0C206] interacts with 135 human  
partners: {P27695;Q96HA7;P06733;O00488;P46937;Q9Y2X9;Q8WUF5;Q86VZ6;Q9NQ87;Q16649;Q05195;Q9Y2D1;Q15466;Q96ST3;Q6VMQ6;Q9NPF5;O75496;Q96IZ0;P51532;Q9NPI1;Q9NR55;Q9NVW2;O43255;Q13263;P17275;O14948;Q9UMX1;O75925;P25490;O60907;Q6W2J9;Q9UGP4;O75381;Q96IF1;Q99583;Q2VWA4;Q15327;Q9UKL3;P52737;Q9UKV0;Q8WW38;A6NIX2;P54198;Q15637;Q04727;P61201;Q99816;P41970;Q04725;O14770;Q01201;Q9NZI7;Q99471;Q15699;Q9Y6X8;O00422;Q96RU7;P12755;P31946;P54259;Q9GZV5;Q15742;Q8IZ40;O60682;Q99581;Q14919;Q86X95;P10828;Q9ULV5;O75446;Q9UIS9;P16989;Q8IXJ9;P12757;O15379;P80723;Q8N488;P50616;Q8WUI4;Q01658;P49711;Q9NQR1;Q96AQ6;Q01094;P15884;P50539;Q8N9R8;O95551;Q14582;Q9Y4X4;Q13901;Q96GC6;Q9BZK7;O75376;Q9H165;Q96T58;Q04724;Q16384;Q9Y6B2;Q03923;Q9NZI6;P18847;Q719H9;Q8IY57;P37275;Q969R5;Q8IYM9;Q9HBM6;Q8NB12;Q9H9S0;Q86U70;Q9UBC3;P84550;O43660;P56524;O43439;O00257;P48552;Q01130;Q66K89;P47928;P50548;O43593;Q13227;Q9NZU5;O75461;Q9Y3T9;Q9Y618;P35638;Q14207;O75182;Q15583;Q9UKY1;Q9Y2Y4;Q9UQL6}

8671 Pathogen[ P03363] interacts with 132 human  
partners: {Q719H9;Q86X95;Q9NPF5;Q86U70;Q9NR55;Q15699;Q03923;O75461;Q8IXJ9;Q16649;Q6VMQ6;P10828;Q96T58;P54198;Q15466;Q99626;Q14582;Q13227;Q9NZU5;Q9UMX1;Q96IZ0;P54259;P61201;P50539;P12757;P18847;P37275;Q9NQ87;O15379;P51532;P06733;Q9BZK7;O43439;P25490;Q16384;Q9Y6X8;P31946;O75376;O60907;P56545;Q9Y2D1;Q13901;Q8N488;Q66K89;Q9UQL6;P50548;Q8WUF5;Q01130;Q96GC6;O14948;Q04724;O75506;Q9Y2X9;Q99471;P23497;Q15327;Q9Y4X4;P50616;Q04727;P17275;P49711;Q96IF1;O00488;Q86VZ6;Q8IY57;Q9UGP4;O75446;P48552;O43593;P46937;P52737;Q9GZV5;Q9NZI6;Q8NB12;Q01094;Q9UKV0;Q15637;Q96ST3;Q96AQ6;Q9NPI1;O75381;Q14919;Q8IZ40;Q9UKL3;Q9NZI7;Q9UKY1;P47928;Q9Y618;P35638;Q15742;Q15583;O75925;Q9Y3T9;O00422;Q01201;O75496;Q8N9R8;O60682;Q9HBM6;Q8WUI4;Q9Y2Y4;Q04725;Q05195;Q9ULV5;P84550;O95551;O43660;P15884;A6NIX2;Q2VWA4;P80723;Q99581;Q99816;Q9NQR1;Q9NVW2;Q9Y6B2;P16989;P41970;Q14207;Q8WW38;Q6W2J9;Q01658;O43255;P09630;Q9UBC3;Q9H9S0;Q96HA7;O00257;Q99583;O75182;O43251;Q9UIS9}

8672 [Cluster 789]GO:0003723+F molecular\_function [name] RNA binding [def] "Interacting selectively and non-covalently with an RNA molecule or a portion thereof." [GOC

8673 Pathogen[ Q2Q067] interacts with 403 human  
partners: {Q01844;Q9UNP9;P23588;Q92900;P05198;Q8TCS8;P61313;P83369;Q14151;Q12905;P33240;O75525;P25490;P62701;O00425;O95639;Q96FV9;Q9BYD6;Q6UN15;Q86U42;O15234;C9JE40;P49458;P47914;Q8IU60;P07910;P62312;Q9Y333;P46779;Q9Y6K5;Q9NR56;Q9NQT4;Q15631;A9UHW6;P55769;P49591;Q9UQ80;P22087;P55265;Q8N1G4;A6NGQ2;Q92664;Q9H7N4;P52272;Q02543;P61326;O75534;O75494;Q8IZH2;Q96I24;P14866;Q99547;P26373;Q15459;Q9NXV6;P62750;O15226;P61579;P47813;Q13148;O75940;Q12872;Q14690;P67809;P46087;Q9Y2L1;P55795;Q01130;Q9Y2R9;Q9H1B4;P62318;Q9Y606;Q9HCK5;Q15233;P19474;Q8WWY3;Q99497;Q96AE4;P15880;O94818;Q9NUL3;Q9H074;Q06265;Q9BU

L9;P82979;P09132;Q9UHX1;Q96F86;Q8N684;P46782;Q7Z7A3;Q9NV31;P10155;P35268;Q9Y6M1;O43390;Q9NRR4;P78406;Q15696;P22090;P46778;Q9UK45;Q13868;Q9NSD9;Q96B01;P38919;Q5VWX1;Q14103;O60506;Q9UBU9;O60930;P62888;Q9UBP6;P61573;Q9H6T0;P32969;P18615;Q13601;Q9H171;P57723;Q6NZ12;Q15633;P06748;Q69383;P62244;P05387;Q96AH0;Q92945;P52594;P62861;Q96T58;Q9Y534;A6NHQ2;Q75683;Q96HR8;P42704;Q9Y3Y2;P05386;Q9H6R4;Q13838;Q9Y3B2;Q07955;Q6I9Y2;Q9NPD3;P38935;Q86TB9;Q9BZ17;Q96N16;Q13769;Q8NDT2;P63241;Q16629;Q8NHM5;O95793;Q14240;Q8WYQ5;P30050;P0C7T5;O94906;P57721;O43148;Q6PJT7;P31943;Q92979;Q96QC0;Q15424;Q7KZ85;P26196;Q9BRP8;Q9Y2R5;Q10570;Q12996;P18077;P62891;Q7Z2W4;P27695;P62314;P08621;Q9UHK0;P61978;Q16630;Q9HAU5;Q12972;Q8N5P1;Q9ULW3;P61927;Q5RKV6;Q9BY77;P39023;P38159;P62487;P62081;P61247;P62304;P54253;O14980;Q9UHB9;P84103;P61254;P62249;Q9BYK8;Q8IYB3;Q05048;Q86Y13;Q96KR1;Q9NP64;P62280;O43310;P83731;Q14498;Q08J23;Q86V81;Q99728;Q8IWX8;P61576;P26358;Q9Y2T7;Q9Y221;P60900;Q07666;Q96T37;Q9H9Y2;P56270;P62263;P51816;O60832;P61572;P61571;P60866;P62906;P52815;Q06787;Q15024;Q13310;O95628;Q02878;P46777;Q05519;P26368;Q12904;P62899;O43251;P78344;Q6P2Q9;Q9Y2V2;Q53EL6;Q96DE0;Q07020;Q9H9G7;P62913;Q12906;O14602;Q08211;P62269;P08579;P52597;P07814;Q8TF46;O14746;P23246;Q6IS14;P14678;Q9Y5S9;P62424;P25786;Q01081;P62917;Q8TEQ6;O00567;O15116;Q9BRS8;O76021;Q9P2I0;Q9H9Z2;P61574;P62495;Q13243;P09661;Q8IWX3;P36578;Q8N9N2;Q9UKV8;Q15366;Q8WVV9;Q9HAV4;P09914;O95218;P19338;O43809;O95777;Q92499;Q8NI27;Q8WY41;P09012;P49207;P23396;Q09161;Q9P013;Q9H0U6;Q9HCE1;Q9HCG8;P21399;Q9UQ35;Q9BUJ2;P20042;O60573;P63173;Q8TB72;Q9H4D5;Q9NY12;P82675;P52298;Q9H9J2;Q13901;Q9BYX4;Q15427;Q9BZE2;P47974;P61575;Q99700;Q96PK6;Q9UIF9;Q9UKF6;P39019;Q14493;Q5T8I9;Q5C9Z4;Q9UL18;Q04637;Q9GZV4;O43592;Q9H0G5;P62306;P62841;P06730;P51116;Q9UNQ2;Q9UGY1;O95453;Q8NC51;O75792;Q15637;O95707;P35637;Q02040;P22626;O60870;Q9BTL3;Q9UL40;P50914;P46776;Q9NVV4;P18583;Q9ULC4;Q7Z417;Q96CM3;Q16637;P11940;Q8WXF1;Q93062;P63162;Q92841;P62308;Q9HC16;P09001;Q16600;P61578;Q96QD9;P05388;Q99459;P60842;Q6ZN17;P18124;P62851;Q00839;Q9ULM6;A7MD48;Q15056;Q9Y4Z0;O60936;Q92901;P46781;P48200;P09234;Q9H814;P62310;O75821;Q96B26;Q9BUR4;Q8NG50;Q969L4;O95900;P41214;P17947;Q96T21;Q76FK4;P14625;O95149;Q9Y4Y9;P62945;Q9H1J1;P51003;O95059}

8674 Pathogen[ P0C214] interacts with 455 human partners: {P62861;Q9BY77;Q12996;Q9BZI7;O75683;Q13310;P84098;Q8TB72;P82979;P61247;Q16637;P51114;Q96FV9;P62312;Q3MIT2;O15234;O15116;P26368;Q9H6T0;Q6ZN17;P27695;Q9BUL9;Q9UGY1;P83369;Q9H9J2;Q09161;P26196;P14625;P15880;Q6IS14;Q96T58;P62081;Q12904;Q9NV31;P19474;P56270;P62913;P22090;Q15024;Q06787;O14746;Q99728;P35637;Q92901;P62249;P09914;Q8N9N2;P62899;O95453;P38159;Q9UKF6;Q96KR1;C9JE40;P39019;P62263;Q9BRP8;P60842;P46087;P82675;P57721;Q92664;Q9H0U6;Q9UJJ7;Q16540;P54253;P84103;Q86V81;Q9Y5S9;P61571;P51003;Q13769;P06748;O95628;P26599;P23396;Q92900;P18077;Q9GZV4;Q92841;P05388;Q9H814;Q7KZ85;Q9H171;Q9Y2L1;Q9NR56;P07814;P23588;O76021;Q9H0S4;P14678;Q9Y2V2;P26373;P62306;Q969L4;Q9P2N5;P78406;P55265;Q5JTT9;Q9Y6K5;Q7Z417;A6NHQ2;O15056;P61572;Q9Y3B2;P47813;P46778;Q15233;Q16587;Q8N5X7;Q15637;P67809;A6NMX2;P31483;Q05048;Q6P2Q9;P23246;Q12906;O00567;O14602;P29728;Q8IWX8;P61573;Q15397;P17947;O00425;O75821;P42704;Q9UL40;P78344;Q53EL6;Q9UNQ2;Q96AH0;Q7Z2W9;Q7L2E3;Q15056;Q9UHK0;Q6NZI2;Q6PJT7;Q9HAV4;Q9BYX4;P22087;P62701;P49207;P11940;Q12905;Q99497;Q10570;Q5RKV6;P48200;P61575;Q9H6R4;Q9BUR4;Q9NZI8;P32969;Q5JPH6;Q02543;Q13901;Q9HAU5;O95149;P38935;Q99547;P09001;Q9NY12;P63241;P62308;Q9Y4Z0;Q9UK45;Q01844;O43148;P08579;O43390;Q15366;Q8N684;P49591;Q9HCE1;O75792;Q99700;Q16630;O94906;Q9Y3Z3;Q7Z2W4;Q8TF46;Q9Y4Y9;Q8N9N8;P50914;Q9UPQ9;Q07955;P18615;Q9Y534;Q9BYK8;O95059;Q8IZH2;P46779;P55795;O95707;O75525;Q15633;Q9Y333;P52298;P52272;Q9HC16;P00374;P2487;Q9ULM6;P62314;P07910;Q14493;Q8IYB3;O60870;P47914;Q9H1B4;O43809;Q9UHX1;Q9Y2T7;P18583;Q15696;P63173;Q9UIF9;O14980;Q9NPD3;P08621;P56192;Q8WXF1;Q14103;P62310;Q9Y221;Q07666;Q14151;O95071;Q16600;P55769;Q99459;P62280;P61326;Q8TEQ6;Q9BZE2;Q92979;Q8IWX3;Q9BRS8;P38919;P61576;P0C7T5;P26358;Q9H074;P30050;Q08J23;Q9NRX1;Q659C4;Q6PKG0;P62891;P61574;Q9NVP1;A9UHW6;Q9NUL3;O43310;Q14671;Q13243;Q14240;Q8TD47;O43592;Q15427;Q9P2I0;P54577;P52597;Q8TCS8;Q5T8I9;Q12872;Q9H9G7;P62495;Q05519;Q76FK4;O95900;P62269;P63162;O15226;Q86TB9;Q9BUJ2;Q15459;Q96I24;Q9H0G5;P61579;P51816;Q96T21;O60930;P62318;Q8NDV7;O60381;Q9NRR4;Q8IV48;Q8NI27;P46781;P61578;Q13868;P25786;Q01081;Q96PK6;Q9Y2R9;Q96B01;Q14690;P33240;P49588;Q9H9Z2;Q8IU60;Q075940;P61254;Q15424;O95777;O75534;Q9UBP6;O75494;Q7Z7A3;Q9UKV8;P51116;O95639;P62841;Q15287;P62244;Q9NP64;P43243;Q04637;O60832;P31943;Q9Y2R5;Q92499;P62304;Q07020;Q8WY41;Q96I25;O00442;Q69383;P62945;P09012;O95793;P46776;P05198;Q9NUU7;Q15631;Q9P013;O60506;Q3ZCQ8;P52815;Q9BTL3;P46777;Q8TEA1;Q9HCG8;P55884;Q86Y13;Q9H9Y2;Q9Y6M1;P83731;P09661;Q9UMR2;Q9UQ35;Q96AE4;P35268;Q9HCK5;Q9ULW3;Q8NC51;Q9UHB9;P62424;Q08211;P60866;Q12972;Q96BT7;O95218;Q8IYB7;Q8NDT2;Q92804;Q00839;P49458;P09234;P60900;P61313;P52594;Q92945;Q14011;P20042;Q9HCF0;Q13601;Q9UQ80;P05387;Q6IN84;Q96QD9;Q13148;P22626;Q5C9Z4;O43251;Q9H4D5;Q9NSD9;Q9Y606;P61927;Q02040;P62750;O94818;Q16762;Q5VWX1;P05386;Q06265;P09132;Q9UNP9;P21399;P62851;Q86U42;Q9NVV4;P06730;P19338;Q9BYG3;Q13838;Q8IZ73;Q9H7N4;Q15365;Q14498;P46782;Q8WYQ5;Q9ULC4;Q8NG50;Q96CM3;O15042;Q9Y3Y2;P18124;Q93062;Q9NQ4;Q86U38;Q8WVV9;Q96F86;Q9UL18;P10155;Q96T37;Q14966;Q96B26;Q16629;Q9BYD6;P14866;P36578;Q5VZF2;O60936;Q96QC0;Q9UBU9;Q9Y2Z4;P47974;Q6UN15;Q6I9Y2;Q96DE0;Q01130;Q8WWY3;P62906;Q96HR8;O60573;Q9NS39;Q02878;Q9H1J1;Q96N16;Q8NHM5;P41214}

8675 Pathogen[ P03346] interacts with 501 human partners: {Q08J23;O75179;Q9Y606;Q9Y5S9;Q96FV9;Q9Y3Z3;Q9BZI7;Q7KZ85;O76021;Q15427;P05387;P51991;O95639;P46779;Q5RKV6;Q86U42;O15234;P61978;Q9Y3Y2;O15042;Q9ULM6;P38935;Q8NC51;Q09161;P63173;Q8WXF1;P06730;P62917;Q9NP64;P62249;P62913;Q15366;Q9HAV4;Q06787;Q92979;P61579;P62861;Q08170;Q8IYB3;Q96PU8;Q02878;O95149;Q93062;Q12905;Q14671;Q9P2K5;P47813;Q96KR1;O00567;P09651;P56270;Q5T8I9;P55265;P06748;Q96N16;P0C7T5;Q9ULW3;P14866;Q9GZV4;Q9BTL3;Q9NRX1;Q9Y2V2;P62280;P39023;Q8NHU6;P14625;P62304;Q9UKF6;O95777;O60930;Q96QC0;Q9UQ80;P61927;Q14011;O95900;Q96I25;Q9Y6M1;O00425;Q9H171;Q9H0U6;Q99728;Q92925;Q9UMR2;Q13148;A6NHQ2;Q92841;Q9Y4Y9;P08579;P07814;P78406;Q9H9G7;P55795;O95628;P61578;Q4G0J3;Q9UNW9;Q9NS39;Q9UL18;P43243;P46778;Q8WVV9;P49207;Q8N5X7;P25490;Q15637;Q15633;P0DJ3;Q9BZE2



40;Q6IS14;Q15024;Q6P087;Q9UK45;Q14151;Q10570;O60832;P52298;Q92804;Q9HCE1;Q9H171;P21399;P39023;Q9H1J1;Q7L2E3;O75792;Q9Y2R9;Q13243;Q9HCK5;Q15397;Q9Y5S9;O43592;Q13901;O43432;Q8NG50;Q6PJT7;Q9BUJ2;Q12906;P62495;Q8NHU6;P33240;Q86TB9;P49591;Q99497;Q7Z417;Q9P013;P26368;Q9NXV6;P61579;P18077;Q93062;Q9NQT4;Q14966;O75179;Q13868;Q8IWX3;Q8NI27;Q9HC16;P42704;P14866;P23246;Q16540;A6NC42;P07910;Q9UBU9;Q9NPD3;Q13310;P52594;Q13838;P05198;P61254;P50914;Q659C4;Q7Z2W9;O75569;O15116;Q9NSF3;O95639;Q9H074;P62312;Q14240;Q9H1B4;P18615;Q9UGY1;A6NHQ2;Q96HR8;Q9Y3Y2;Q6P2Q9;Q8TF46;P62841;P18124;Q14444;Q14445;Q8TEA1;Q9NR56;Q9UHK0;O60870;P62314;P54253;Q14498;O95707;Q16600;Q15427;Q08211;Q9H9Z2;Q9UHX1;Q96AH0;O95453;Q05048;Q9Y2R5;Q9NQ94;O95149;A6NGQ2;P46782;Q00839;Q9BY77;Q8TB72;P22087;Q96N16;A1L020;O95059;Q8WWY3;Q96FV9;P83369;Q15459;P78344;O00567;P23588;P32969;P22090;P62306;Q86U44;Q8IZ73;P43243;Q5JPH6;P14678;O60573;Q13769;Q96PZ0;P60866;Q8IYB3;Q12905;Q9BUR4;O75648;P19338;O43148;Q16629;Q9Y2T7;Q9H6R4;Q15631;Q07020;P39019;P26599;Q8IYB7;P55795;O75940;Q7KZ85;P61572;Q9ULW3;Q9Y534;Q6I9Y2;Q96T21;P61326;Q8IZH2;Q16637;Q96AE4;P49207;Q5VWX1;P62244;Q9H7N4;Q9H6T0;A7MD48;Q9Y3Z3;Q8N0Z8;P60900;Q9NP64;Q8NC51;Q02040;P09001;P62263;Q02543;P19474;P62424;P55265;Q92901;Q9HCT0;Q96I24;Q9BZI7;P11940;P62750;P63173;O94818;Q9Y4Z0;P26196;P49458;Q07666;P61573;Q05519;Q5RKY6;P46776;Q9NUL3;Q9BRP8;Q9Y6K5;Q9NY12;Q96F86;P08621;O76021;Q16587;P61571;Q4VXA5;Q92945;Q8N684;Q9UQ35;Q9UIF9;O75525;O75534;Q9BRS8;Q86V81;Q8N5X7;Q9NRR4;P46087;Q86U42;Q15424;Q9NVV4;P48200;P36578;O43310;Q16630;Q9NRX1;P62308;O60506;Q15696;P09012;Q08J23;P26358;Q9BUL9;P56192;Q9Y6M1;Q9NSD9;Q71RC2;Q15366;Q9BTL3;P56270;O60936;P27695;Q53H11;P62304;P51116;Q9H0K6;Q5C9Z4;P62906;Q9HAU5;Q9Y2L1;P47914;P62280;Q5RL73;P62310;Q9HA38;Q07955;P61574;P06748;Q9H0G5;Q969L4;P62899;Q9Y2Z4;Q6IN84;Q15365;Q9Y606;Q12972;Q13601;P63241;P14625;P62081;P62945;Q16762;Q8N5P1;P46777;Q9H9J2;P30050;Q6NZI2;P61978;P31943;P15880;Q9H9Y2;Q01081;Q96AZ6;Q9BYG3;Q14493;P78406;Q9UJ7;P62891;Q9HCG8;Q96KR1;O95777;P82675;Q8WQ5;Q92900;O15042;Q06787;Q92499;Q96FC9;Q96B26;P62888;Q14011;P55769;P38935;P61927;P52597;O43390;P62917;P09234;Q9HAV4;O15226;Q12872;Q96Q11;Q6PKG0;Q9ULM6;Q13395;Q8N1G4;P46778;Q9P2N5;P62249;Q9NWB1;P51816;Q12904;O00425;P51003;Q12996;P09661;P05386;P49588;P35268;P62913;P41214;Q14671;O60930;Q96QD9;P25490;P05387;P52756;O75494;Q7Z7A3;P61247;Q15233;Q99547;Q9Y221;P62318;Q9NVP1;Q9UQ80;P62269;Q9Y4Y9;P61578;P62701;Q6UN15;P18583;Q9UHB9;O75616;P61575;O95900;Q06265;Q9GZV4;P61313;O95218;Q9Y683;O15234;Q9NZB2;Q92615;Q8TD47;Q8NDT2;Q96C10;Q9BV44;P0C7T5;Q96DE0;Q96PK6;P07814;Q6ZNI7;Q9Y2V2;P62851;Q8TCS8;Q09161;P05388;Q04637;P31483;P22626;P84103;Q8IWX8;Q14690;Q8WWH5;Q9UPQ9;P38159;Q8NDV7;Q96T58;Q53EL6;Q9P2I0;Q69383;P55884;P62861;Q9H814;P63162}

8678

Pathogen[ P03383] interacts with 368 human

partners: {Q9H1B4;Q9NVV4;Q9NRR4;P36578;Q06265;Q12872;P05388;Q9UBU9;P39019;Q07955;Q13601;P19474;P26373;O15234;Q9Y2L1;P09661;Q99547;Q15287;Q53EL6;Q7Z417;O75534;P62913;Q8NI27;Q05048;P62945;Q6PJT7;Q12904;P61574;O75494;Q15366;P51003;P06748;O43148;Q969L4;Q9H0S4;O43390;Q9H9Z2;P56270;P62891;P0C7T5;P61572;P19338;Q02040;Q9NP64;Q9UL18;Q15459;O00567;P62280;P62318;Q07020;Q9UNP9;Q8IU60;P49458;P62312;P62750;Q9H4D5;P22626;P60900;P14866;P05387;P62249;Q6NZI2;P62888;P62899;P61571;O75712;Q9UPQ9;Q13769;P61927;Q13838;P46777;Q7Z7A3;Q9Y5S9;P46779;P49207;P55795;Q5JPH6;A9UHW6;Q99700;P83731;P62424;Q96DE0;P78406;Q9NR56;Q9BUR4;P18124;P46778;O95218;Q6ZNI7;Q96FV9;Q06787;Q12972;Q92901;Q10570;Q96B01;P62304;Q9UBP6;Q8WYQ5;Q92841;P61326;Q9GZV4;P61573;P48200;P61247;Q9UNQ2;Q6P2Q9;Q9ULW3;P38919;Q96KR1;Q9Y4Y9;O60936;Q8TB72;Q5T8I9;O95059;P26368;Q13243;Q9HCK5;P09001;P62316;Q8TCS8;P47914;Q9P013;Q9Y2R9;P61978;Q8WXF1;Q96T21;P61927;P11940;P51916;P31943;P62917;Q99459;P61575;Q86V81;O60573;Q14690;Q9H6R4;Q15631;P63241;Q9H7N4;P09132;O75683;Q9UKF6;Q9BZE2;Q9BRS8;P30050;Q9Y3B2;O94906;P10155;P84098;Q9Y2T7;P38159;O14602;P32969;Q09161;O95628;Q16629;P20042;O95707;P82675;Q5VWX1;P62487;Q9BYD6;P18077;Q8N684;O60870;P23588;P06730;P63173;Q8IYB3;Q9Y606;Q16637;O95777;P62081;A7MD48;Q9UHX1;P33240;P62314;Q96PK6;P62310;P18583;Q9Y221;P84103;Q96N16;Q9Y2R5;Q92945;Q9UHK0;Q9H6T0;Q9HAU5;A6NGQ2;Q8TF46;Q9NV31;P35637;P61313;O14980;Q01130;Q8WV9;Q9HAV4;Q9NPD3;O94818;P62851;P62495;Q9NQT4;Q9H171;P47813;Q14493;P46782;Q14103;Q96QD9;P41214;Q08J23;O14746;O95149;P62269;P57721;P05198;Q02543;P62244;Q9UGY1;P14678;Q02878;Q9Y2Z4;Q9NY12;Q9Y333;P14625;P25786;Q01081;P07814;Q9UIF9;Q86TB9;Q07666;P82979;P78344;Q96B26;Q9BY77;Q15365;Q9UKV8;Q9ULM6;Q12905;Q9H074;Q9Y6K5;Q96HR8;P51116;Q96T58;Q8WY41;O43809;P52298;Q12906;P46087;P09012;P62906;Q9Y4Z0;P54253;O75525;P60866;Q04637;P52815;Q9UK45;Q5RKY6;P61254;Q9UQ80;Q05519;P61579;Q96QC0;Q9BUJ2;C9JE40;P46781;Q8WWY3;Q9UQ35;Q96AE4;Q9H9J2;P39023;P55265;P55769;O60930;Q9UHB9;P42704;Q9BTL3;Q9P2I0;Q8NDT2;Q92979;Q15233;O43310;Q13310;P38935;Q14151;P62841;Q96F86;O00425;Q69383;P62308;P27695;P23246;Q13148;Q15424;P22090;O43592;Q9NXV6;Q92499;P62701;Q01844;O15116;Q9H0G5;Q9Y534;P83369;O95900;P62263;Q9BUL9;P35268;Q9Y2V2;P05386;Q9NUL3;P50914;Q9HCE1;O95453;Q86U42;P61576;Q96AH0;Q8NC51;Q8IWX3;P22087;Q9NSD9;P49591;P67809;Q9UL40;Q15637;Q9ULC4;Q9HCG8;Q9Y3Y2;P61578;Q96CM3;Q6UN15;P09234;Q92900;P62861;Q13868;Q00839;P52594;P08621;Q6I9Y2;Q9BYK8;P46776;O75821;P26358;P52597;P15880;O60832;P23396;Q15024;P17947;P18615;O15226;Q9H9J7;Q13901;Q13901;Q15633;Q9H814;Q5C9Z4;P62306;O76021;Q9H0U6;Q7Z2W4;Q9BZI7;Q9H1J1;Q14498;Q93062;Q7KZ85}

8679

Pathogen[ P03410] interacts with 488 human

partners: {Q99700;O75648;Q13838;Q9Y2W6;P62861;Q96T21;P05386;A8MWD9;P61576;Q8IU60;Q71RC2;Q96Q11;Q9Y2L1;Q6NZI2;P22087;Q92945;Q02543;Q8IZ73;Q9UPQ9;P23246;P61247;Q00839;P49207;Q15427;Q8IWX3;P26373;P61578;Q9Y4Y9;Q01081;O95218;O95639;Q9NP64;P52594;P26368;Q10570;Q8TCS8;P61326;O75683;Q14103;P62304;P62899;P56192;O15234;O15042;Q96PK6;Q9Y534;Q9UKV8;Q15633;Q99497;O95628;Q9UHB9;Q96QC0;Q8WWY3;P18615;Q15637;Q93062;P62244;Q12996;O00442;Q15696;P62913;Q92804;P61978;Q9Y3A4;P0C7T5;Q9HC36;Q8IV48;Q9NWB1;Q9UGY1;Q16540;Q05048;P25786;Q16629;P29728;Q02878;Q92901;Q92900;P22626;Q15233;P11940;Q9NVP1;Q9BUJ2;Q6PJT7;A6NGQ2;P15880;Q9BTL3;Q8NI27;P17947;P62306;Q16600;P46776;O14746;P46776;P62841;P82675;P30050;Q15287;P60900;P62310;Q9UBP6;Q9UL18;P05388;P06730;Q9ULM6;Q9UQ80;Q9UHK0;Q96KR1;O95777;P46781;P18124;Q8NHU6;Q9BYK8;P49588;Q9Y5S9;P00374;Q06265;Q7KZ85;A1L020;Q14493;Q76FK4;

P20042;Q9H0G5;P57723;Q5VZF2;P41238;P35637;O75792;Q5RKV6;Q8TEQ6;Q15365;Q8TF46;Q8TEA1;P14625;O60870;Q9HCJ0;Q9Y333;Q5T8I9;Q9BYX4;Q9P2K5;P62269;Q8NG50;A6NHQ2;Q8NDV7;Q5C9Z4;Q07020;Q13868;Q9NR56;P57721;P55769;P62906;Q96T37;Q9NRX1;P52815;P23396;Q9NXV6;P78406;P26599;Q9Y2V2;Q6PKG0;O60832;Q8N9N2;Q7Z7A3;P82979;Q9P013;Q96N16;Q15366;P62249;P62308;P14678;P63173;P50914;Q9HAU5;P06748;Q5VWX1;P62280;Q9H0S4;O43432;Q9H9G7;P55265;P22090;Q9BYD6;P61313;Q69383;Q8WYQ5;P47813;Q9NVV4;Q9H9J2;Q9H171;Q9H1J1;P14866;Q9P2N5;Q9NRR4;P41214;P09012;P62701;Q96T58;P25490;Q8WVV9;Q9BZI7;Q15424;O15226;Q07666;Q96FV9;Q12904;Q96QD9;Q9UQ35;Q9UJJ7;P62750;O75569;Q9NSD9;Q9H074;Q96EY7;O60381;O60930;Q659C4;P51003;Q5RL73;Q9H7N4;Q13148;P08621;P55884;P49591;O43809;Q96CM3;Q9H4D5;Q92979;P26358;P67809;Q53HI1;Q9ULC4;Q9HC16;Q8IZH2;Q9NX24;Q4VXA5;O94906;P36578;Q8N1G4;P61573;Q9UMR2;P18077;Q9UNQ2;P07910;P08579;Q14966;O00567;P38935;O95707;O60936;Q96B26;Q05519;O43818;Q9H814;Q96F86;P61927;Q9UL40;P84098;A9UHW6;P61571;O95453;Q99459;P21399;P43243;Q9NUU7;Q3ZCQ8;P09132;Q6UN15;Q07955;P52597;P52298;Q9H9Y2;P62081;Q13395;Q16637;P61574;O75534;Q9BUL9;P62495;Q9P2I0;O75525;Q6IN84;Q8TD47;P31943;Q92499;P62314;Q16762;P83369;Q7Z2W4;Q96AH0;Q15056;Q8N0Z8;Q9H6R4;O43310;Q15024;Q9BYG3;Q12905;Q9HCE1;P33240;Q9UHX1;Q96AZ6;P42704;P09661;Q9BV44;Q8WXF1;Q96I24;Q96DE0;Q9NY12;Q15459;Q7L2E3;Q8NDT2;Q9HCK5;Q86V81;P31483;P19338;P52272;Q53EL6;Q9Y2R9;Q8N5P1;P46782;P32969;Q9UBU9;P18583;Q9BZE2;P47974;O14602;P60842;Q9H1B4;Q13769;P61572;Q14011;Q8IYB3;P38919;Q9NQT4;Q8IYB7;Q9UNW9;Q8WWH5;Q9Y3Y2;Q9NUL3;P09234;Q5JPH6;P46779;P51114;Q99547;Q9Y6K5;Q9Y606;Q08J23;Q13901;Q01130;P46087;O60573;Q969L4;Q9Y4Z0;Q92664;Q075821;Q9ULW3;Q9UKF6;Q9HA38;Q9H6T0;P63135;Q6I9Y2;Q96C10;P27695;Q7Z2W9;O00425;Q15397;Q86TB9;Q9BY77;Q9Y2Z4;Q14151;Q9BUR4;Q8N5X7;O95793;A7MD48;Q8N9N8;P56270;Q12972;Q9UIF9;Q8N684;P63241;Q96HR8;Q9UNP9;O94818;P62487;Q9H9Z2;P62263;Q15631;Q14498;P62424;P62888;O60506;Q96FC9;Q12872;P61254;Q09161;P46778;P51816;O43148;P62945;Q96A72;O95900;P05387;P07814;Q9NPD3;P48200;Q13601;Q06787;Q6ZNI7;Q6P2Q9;Q9NV31;Q6P087;O15116;Q9H0K6;P09001;P84103;P39019;P62312;P47914;Q86U44;Q16630;Q9GZV4;Q86U42;Q04637;Q9Y2T7;P54253;P49458;Q9Y3Z3;P39023;P55795;Q14671;Q8WY41;O75940;O76021;Q9HAV4;Q13243;A6NMX2;Q96B01;P62917;O43592;P62851;P83731;P38159;Q8IWX8;P61579;Q3MIT2;Q9NZB2;P35268;Q08211;Q8TB72;Q9Y2R5;P09914;Q96AE4;Q9UK45;Q13310;O75179;P63162;P62891;P61575;Q86U38;Q9Y221;Q12906;Q9BRS8;A6NC42;Q92615;P78344;Q96I25;P23588;Q8NC51;O14980;C9JE40;Q14240;O95059;Q7Z417;Q9H0U6;Q9Y6M1;Q14690;P60866;O43390;O95149;O75494;Q9HCG8;Q9Y3B2;Q6IS14;P10155;Q16587;Q9BRP8;O75616;P05198;Q02040;P62318}

8680

Pathogen[ P14075] interacts with 376 human

partners: {Q9Y2Z4;P42704;Q5VWX1;O95453;Q8N0Z8;Q69383;P82979;P51003;P22626;Q8TEQ6;Q15366;P61575;P49207;O15234;P09132;Q8TB72;P62304;P52815;P46781;P54253;Q05519;Q76021;P32969;Q9NXV6;Q9UGY1;P14866;Q9UK45;Q9BYD6;Q09161;Q9H814;P62495;Q8WXF1;Q14690;P19338;P62913;Q92900;P22090;P23246;P20042;Q02878;O43809;Q9P210;Q96DE0;P51816;Q96KR1;P55265;O14746;P08621;Q9NUL3;P62851;Q92979;P18615;Q9H6R4;Q9HCK5;Q14103;O75648;Q9ULM6;Q86V81;Q13243;P23588;P61576;Q13769;Q96QC0;Q9NPD3;P60900;P27695;Q8IWX3;P62244;Q9Y3Y2;Q9H0S4;Q9BRP8;Q9Y2R5;Q07666;P61579;Q6PJT7;P61326;Q9H9G7;Q9NSD9;Q14493;Q9UHX1;Q6IN84;Q96N16;Q9Y4Z0;P78406;P26196;Q13901;Q15459;P61572;O94818;P61254;Q9NVV4;P46778;Q6UN15;Q96F58;Q12905;P09234;P38159;P38935;Q92945;Q8NC51;P61573;Q9Y606;Q01844;P05388;Q9H9Z2;O60930;Q9HCE1;P78344;P0C7T5;Q96T21;O15226;Q7KZ85;Q01130;Q9Y2V2;O75821;O95218;O95777;Q9UNP9;P46777;Q93062;Q9GZV4;P31943;P62249;P63162;Q12906;Q13601;Q9H7N4;Q9H074;Q02040;P06730;P62306;P62081;O75494;Q9H9J2;P63241;P62308;P62750;O00567;Q8IU60;O43390;Q02543;Q9HAV4;Q8WWH5;Q9NZB2;Q9UQ35;Q13148;P18124;O94906;Q9HCG8;Q12872;P26358;Q9Y2L1;A9UHW6;P47813;O95900;Q96HR8;Q13868;P61574;P05198;P62312;Q16637;Q9Y2R9;O75940;Q8NI27;O43592;Q99459;P62487;Q96QD9;Q9UH9J2;O60870;Q9NQT4;Q92499;P11940;P10155;Q6NZI2;O14980;P63173;Q15365;Q00839;O95628;P30050;P57721;Q15631;Q9Y221;Q6I9Y2;Q13310;O60573;P83731;P49458;P84098;P62318;P83369;O15116;O75683;P51116;P55769;Q9NR56;P33240;P56192;P61247;P46782;P62891;Q96PK6;Q9Y2T7;P62861;Q12904;P61571;Q9BUJ2;Q6ZNI7;Q9UPQ9;P18077;Q05048;O75525;Q15424;Q9NV31;P46779;P62917;Q15637;P39023;P41214;Q15287;Q04637;Q9UNQ2;P50914;P62269;Q7Z7A3;Q86TB9;Q5T8I9;Q6P2Q9;Q5RKV6;Q9ULW3;P26368;Q7Z417;P23396;P19474;P22087;Q9Y6K5;P25786;Q9UJJ7;Q01081;P15880;P17947;Q9UIF9;P46087;Q14151;P67809;Q06787;O14602;Q9BRS8;Q9HAU5;P06748;Q9UBP6;Q53EL6;Q9NR94;Q96B26;P09661;Q8IYB3;Q9UKV8;Q9BTL3;P62841;Q96AH0;Q9Y333;P36578;Q9BUR4;P61978;O95149;Q15633;Q9BZE2;O60832;A6NGQ2;Q9H9Y2;Q15233;Q8WY41;Q9UQ80;Q7Z2W4;P52594;P09012;P61313;A7MD48;P14678;Q8NDT2;O75792;O95059;Q9Y534;P62888;O43310;Q8TCS8;Q9H0U6;Q92901;Q96B01;Q99547;Q5C9Z4;Q92841;Q9Y5S9;P35268;Q9UHB9;P62945;Q9NP64;P35637;P46776;P09001;Q9UL40;Q9UL18;Q15024;P56270;P84103;Q99700;O43148;Q9UBU9;P48200;P62701;Q53HI1;Q9H1B4;Q9H0G5;Q12972;P62899;P52597;O75534;O00425;Q5JPH6;O60936;Q08J23;P47914;P62906;P62314;P38919;Q8N684;Q9BUL9;Q9H4D5;Q9Y4Y9;Q96FV9;P14625;P05386;Q9UKF6;Q9NY12;Q8WVV9;Q13838;Q86U42;O95707;P39019;P62424;Q16629;Q06265;Q96AE4;Q9ULC4;Q96CM3;Q9P013;P62280;P49591;Q9Y3B2;Q96F86;P18583;Q10570;Q9BYK8;Q07020;C9JE40;Q8WY3;Q9H171;P62263;Q969L4;P60866;P82675;P26373;P07814;Q14498;P61578;P05387;P62310;Q9BY77;Q07955;P52298;Q8WYQ5;Q9H6T0;Q9BZI7;Q9H1J1;P61927}

8681

Pathogen[ P0C206] interacts with 454 human

partners: {P27695;Q9BUJ2;A6NGQ2;A9UHW6;P61572;Q9UNP9;P09132;Q15287;P61313;Q12872;Q9H0S4;O75683;Q9BUL9;P67809;Q08J23;P33240;P07814;Q9P2N5;Q9H074;A6NHQ2;Q9UKF6;Q13601;Q8N9N2;Q96T37;Q14103;P14678;P31483;Q9HCK5;Q9GZV4;Q8WWH5;Q9BZI7;P20042;Q15365;P18124;Q9BYG3;Q6IS14;Q07955;P95149;Q86TB9;P26368;P52298;Q7Z2W9;P55265;O95453;P61576;P38935;Q9H0U6;Q9Y2Z4;Q9UBP6;Q12905;Q9NUU7;Q15397;P61326;Q01081;P49207;Q8IZH2;Q8TCS8;O43592;Q86U38;Q15696;P62081;Q09161;P30050;P25786;Q9NY12;P18583;P55769;Q06787;Q8NI27;O14602;P25490;Q14966;Q14690;Q9NPD3;Q92664;Q6UN15;Q5RKV6;P62304;P62244;Q05519;Q15233;Q8IYB3;P50914;A6NC42;Q13868;Q08211;P62750;P09012;Q9UHK0;Q9H7N4;Q8IV48;P46781;Q02543;Q9NR56;Q9Y6K5;Q9Y2V2;Q9BY77;P14866;C9JE40;Q8TEQ6;P61978;P63162;O60870;O75940;Q8N684;P09001;O00567;O95059;Q9NXV6;Q07020;Q96PU8;P46778;Q9BRS8;Q14011;P51816;P26196;Q9NS39;Q15637;P19338;P62263;Q5JPH6;P26358;Q9UPQ9;P29728;Q13243;Q16629;Q86U42;Q15631;Q8WVV9;P62314;O43390;Q8IWX3;P

60900;Q96DE0;Q02878;Q9UKV8;Q01844;P62495;O75494;P51003;P62280;P22626;Q07666;Q8N9N8;Q02040;Q9BTL3;Q99497;O43809;P0C7T5;Q8TB72;Q96B26;Q9H0G5;P62851;O94818;Q8IZ73;Q8NDV7;Q8WY41;O15226;Q5T8I9;Q9Y4Y9;Q96N16;Q9UHX1;P46782;O95628;Q9HAV4;Q9P2I0;P49591;P06730;Q9Y4Z0;P61247;P48200;P57721;P83369;O75534;Q16587;Q9UJ7;P18077;O95777;Q13769;P62913;P61927;Q9UNQ2;Q6ZNI7;Q9Y333;Q9BZE2;Q9HCE1;Q8TEA1;P62888;P23246;Q9H6R4;Q6PKG0;Q9BYK8;Q9UQ35;O60930;P51114;Q99547;Q3ZCQ8;Q9H9Z2;P36578;Q9H814;O60936;Q9UK45;P62861;P05198;Q92979;Q6ZNO4;Q9H4D5;Q96FV9;P38159;Q05048;O60506;Q8N5X7;Q9NSD9;Q13310;P35268;P23396;P39023;Q9ULW3;Q99700;Q13838;Q9Y2R9;P32969;Q06265;Q9UBU9;Q53HI1;P18615;P52597;O76021;P62701;Q16630;Q6P087;Q9P2K5;Q6PJT7;P61575;Q9H171;P05386;Q96KR1;Q9P013;Q8N5P1;O95707;Q8WXF1;Q6NZI2;P61571;Q96F86;P22090;Q9BYD6;P84098;P62945;P10155;O75792;Q7KZ85;P26373;Q96PK6;Q9UIF9;P35637;Q99728;P46777;P05388;Q9NRX1;Q76FK4;Q7Z417;Q6P2Q9;A6NMX2;O95793;Q659C4;Q9NVP1;P62318;Q15024;O15234;Q9H1B4;Q9NUL3;P17947;Q13901;Q8NHM5;P62899;Q12996;Q5C9Z4;P47813;Q9NRR4;P83731;Q9HA38;Q9Y2L1;Q86XN8;O95900;P82675;Q8WWY3;Q92841;P55795;P39019;Q92901;Q9NVV4;P05387;Q92804;Q15424;O60381;Q6IN84;O60832;Q53EL6;P56192;Q15633;Q8IWX8;P60866;Q14240;Q9BUR4;P62306;P62487;Q96HR8;Q13148;Q96T58;P62841;Q15366;Q99459;Q9Y3B2;Q9HAU5;Q9HCG8;Q9Y606;Q9NV31;Q9H9G7;P46087;Q9H6T0;P61574;P63241;P43243;O95218;O95639;P84103;Q96QD9;Q8N1G4;P23588;P78344;Q92900;P49458;P22087;P78406;Q14151;P42704;O94906;Q96QC0;Q9UB9;A7MD48;A1L020;Q9NP64;Q9HC16;Q9H9Y2;O60573;P46776;Q9H9J2;Q9ULC4;P62906;P62312;P41214;Q96AE4;Q04637;Q9UQ80;O15042;P63173;P06748;Q92945;Q12972;Q9UMR2;P09661;O75179;Q9NQT4;Q9Y2R5;Q9BYX4;Q16762;P38919;O75821;P41238;Q96C10;Q16637;P62308;P62891;Q93062;P62269;Q7Z2W4;Q8N0Z8;Q96I24;O75525;Q96B01;P08621;Q9Y221;P46779;Q01130;O43310;Q8IYB7;P62310;P60842;Q92499;Q9Y6M1;P15880;Q8WYQ5;Q00839;Q9Y2T7;Q14498;Q9ULM6;O43148;P61579;Q8TF46;Q14493;Q9UL40;O95071;Q15459;P11940;Q5VZF2;Q9Y3Y2;Q8NC51;Q8IU60;Q7L2E3;P47914;Q96CM3;P61578;P09234;Q12906;P51116;Q9Y534;Q5VWX1;Q86Y13;P47974;Q9NZB2;P31943;P61254;Q8NG50;Q6I9Y2;O15116;P21399;Q69383;Q16600;Q12904;Q9UGY1;Q9Y5S9;Q86V81;Q14671;Q7Z7A3;Q96T21;O14746;Q96AH0;Q9UL18;Q969L4;Q9BRP8;P14625;P52815;O00425;P54253;P19474;Q8NDT2;Q10570;P62249;P62424;P09914;Q9H1J1;P61573;P62917;P56270}

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Pathogen[ P03363] interacts with 521 human partners: {Q96B26;A6NGQ2;Q16587;O95777;O60832;Q15020;O75940;P62913;O75179;Q9UNQ2;Q9NX24;Q9NQT4;Q9Y2Z4;Q9Y6K5;P62314;Q92979;Q15233;Q9Y2R5;Q8TB72;Q6ZNI7;Q9ULW3;A8MWD9;P09132;Q9BUR4;Q06787;Q8N9N2;P0C7T5;P05386;Q13151;Q9NVV4;Q13595;Q9Y4Y9;Q5RKV6;Q9BZE2;Q9GZV4;P63162;Q9Y4Z0;P62750;Q15366;Q07666;P23396;Q9H4D5;P19338;P63173;Q96J01;Q9NWH9;P23246;Q96T58;O94818;Q9P2I0;Q96I24;A6NC42;P38919;Q5T8P6;P0DJJD3;P46087;Q9UNW9;P18077;Q10570;Q08J23;P05387;Q15883;Q5C9Z4;Q8IY21;Q8NC51;Q9NSD9;O95628;Q8NG50;O95453;P84098;Q12972;Q13148;Q8NHU6;Q12872;O43310;Q7Z3Z4;P62249;P52597;Q5U5Q3;Q92900;Q9NW13;P05388;Q9HAV4;P36578;P09012;Q9NS39;O95059;Q9Y2V2;P62312;P62081;Q08170;Q86Y13;Q8N1G4;O60306;A9UHW6;Q8IX01;P51991;Q9Y2W6;Q9H9Y2;P09914;Q96QC0;Q9Y606;O43347;P14866;Q05048;P46776;Q15024;Q92879;Q99547;O14980;P35637;Q13283;Q9Y3B2;P17947;Q9H0G5;Q69383;P61254;Q9H9G7;Q9UHB9;Q96AH0;P09651;P32969;Q92901;P08579;Q7Z2W4;Q15459;Q5T8I9;Q8IY67;Q9NUU7;P46778;Q15056;O95793;P25490;Q9NY12;Q9NUL3;P61927;Q96BT7;O75526;O14602;P29558;P57723;O00425;Q16629;Q9HCK5;P62891;P42704;Q96I25;Q13769;Q9Y3Y2;P52815;O00567;P62318;Q9UHK0;O95900;Q659C4;Q53EL6;Q9NV31;Q13901;P48200;Q9UKV8;Q15631;Q16630;Q9UL40;Q4G0J3;Q15427;Q9H9J2;Q5JPH6;P62304;Q01130;Q6P2Q9;O14746;Q86U44;Q9Y6M1;Q3ZCQ8;O15047;P09234;O60381;Q9UBU9;P15880;P11940;Q86U42;Q9NR56;Q8WWY3;Q13601;Q8WY41;Q8NI27;Q9BWF3;Q32P51;Q9UGY1;A1L020;P61575;Q15633;Q96FV9;Q6UN15;Q9UQ80;Q96T21;O14717;Q8NDV7;Q9NPD3;Q9H0S4;Q9BRP8;P06748;Q9H0G5;Q96PK6;P23588;Q99729;Q96PU8;Q9P2N5;P62495;P18615;O43818;P61326;Q8IWX8;P62306;P05198;Q7Z7A3;O15116;Q7KZ85;Q05519;O95707;P26373;O75792;P52272;P83369;Q8N9W6;Q96QD9;Q9NX07;Q15287;Q9BTL3;C9JE40;O76021;Q8IWX3;Q8N684;Q5VW67;Q9Y3B4;Q14690;Q9ULM6;P61578;Q15424;P22090;Q92904;Q9Y333;Q14562;P62861;P62841;Q13242;Q96J87;Q9UBP6;O95218;P10155;Q96F86;O15226;P30050;Q8IYB3;Q9NUL7;Q8N5X7;O43809;P38159;Q12906;P18583;Q8N5P1;Q96AE4;Q9BY77;Q92841;P26368;Q9H7N4;Q14240;Q9GZT3;P46782;Q92945;P35268;Q8IYB7;Q15717;Q9UPN6;P61571;P31943;Q9NZI8;Q9BX46;O14979;P51003;Q9UIF9;P20042;P46781;P47813;O75534;P50914;Q15637;P19474;Q9NP64;Q96DE0;Q9HCE1;Q5VWX1;Q96LT9;Q13310;Q13395;O60870;Q14966;O15056;Q13243;A6NMX2;Q9Y2R9;Q86V81;P22087;Q9HAU5;P07910;Q9NWB1;P57721;Q9Y2L1;P31942;P61313;P26358;Q92499;P39019;Q9H9Z2;Q14011;P52298;P26196;Q13838;O43148;P54253;Q9UHX1;Q02040;P08621;Q9BYK8;P55265;P46779;Q02543;P46777;Q9NRR4;P51114;P43243;Q92664;Q9UPS6;Q6NZI2;Q12905;Q13868;Q9P2K5;Q9Y3Z3;Q96T37;P22626;O95071;P09001;P82675;P61572;O60812;P82979;Q9BRS8;Q15365;Q8IWX8;P61574;P26599;P62487;O60936;Q9BYG3;Q9UPQ9;Q14103;Q6I9Y2;Q9UMR2;P83731;P62851;P62280;P56270;Q01844;P55795;P62888;P49458;Q9UL18;Q9H171;P41214;P63241;P62310;Q92804;P60842;Q86XP3;Q9NQT5;Q86TB9;Q9UKM9;O95319;Q8N0Z8;Q07955;P49591;P62244;P51816;O60506;P62906;Q96E39;Q01081;Q5VZF2;Q14671;Q96A72;Q9UK45;Q9BYX4;P78406;Q9BZI7;P61978;P62945;O94906;P49207;Q9HCG8;Q969L4;Q13247;Q96J94;Q8WWH5;Q9H6R4;P05455;P62424;O60930;P55769;Q5SZQ8;Q9ULC4;P47974;P60866;P61579;A6NDE4;P61247;O60573;Q96CM3;Q8TEQ6;Q9NQZ3;Q7L2E3;Q9NVP1;Q00879;P62308;P62899;Q9P013;Q16637;Q9UKF6;Q9Y534;P84103;Q99728;Q99700;Q14498;A7MD48;Q02878;P52594;P31483;Q6IS14;P51513;Q75821;P51116;O43390;P07814;P78344;Q96KR1;Q07020;Q8NGW0;P39023;Q8WXF1;P62995;Q14493;Q8TF46;P14678;Q16560;P09661;Q08211;O43592;P62917;Q7Z2W9;P55884;Q96N16;O15042;Q99459;Q7Z417;Q9BUJ2;P33240;Q9UQ35;Q9Y2T7;Q8WYQ5;O75525;P18124;Q12926;Q76FK4;Q9H6T0;P06730;P62263;Q9BTD8;O95149;Q9NXV6;Q15696;Q96HR8;Q9HCT3;P47914;P38935;P62701;Q9Y5S9;Q9H074;Q9H814;Q9BUL9;Q8WVV9;Q8IHZ2;Q14151;Q12996;Q9H1B4;O43251;Q8TD47;Q9UNP9;Q9YD6;Q8IXT5;P61573;Q96B01;P61576;Q9BZJ0;O75494;P62269;Q9NRX1;O75569;Q9NQ94;P67809;Q8IU60;O43719;Q6PJT7;Q9Y221;Q09161;A6NHQ2;Q8N9N8;Q04637;Q9H1J1;O15234;Q16600;Q8NDT2;P52756}

8683 [Cluster 790]GO:0001030+F molecular\_function [name] RNA polymerase III type 1 promoter DNA binding [def] "Interacting selectively and non-covalently with a region of DNA that is a part of a type 1 promoter that controls transcription by RNA polymerase III. Type 1 promoters are found in 5S rRNA genes, downstream of the transcription start site within

the sequence of the mature RNA, and require TFIIIA for recognition." [GOC

8684 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9H063}

8685 Pathogen[ P0C214] interacts with 1 human partners:{Q9H063}

8686 Pathogen[ P03346] interacts with 1 human partners:{Q9H063}

8687 Pathogen[ Q85601] interacts with 1 human partners:{Q9H063}

8688 Pathogen[ P14079] interacts with 1 human partners:{Q9H063}

8689 Pathogen[ P03383] interacts with 1 human partners:{Q9H063}

8690 Pathogen[ P03410] interacts with 1 human partners:{Q9H063}

8691 Pathogen[ P14075] interacts with 1 human partners:{Q9H063}

8692 Pathogen[ P0C206] interacts with 1 human partners:{Q9H063}

8693 Pathogen[ P03363] interacts with 1 human partners:{Q9H063}

8694 [Cluster 791]GO:0030375+F molecular\_function [name] thyroid hormone receptor coactivator activity [def] "The function of a transcription cofactor that activates transcription in conjunction with a thyroid hormone-dependent nuclear receptor from a RNA polymerase II promoter\_ does not bind DNA itself." [GOC

8695 Pathogen[ Q2Q067] interacts with 3 human partners:{Q15596;P28702;Q9Y2X0}

8696 Pathogen[ P0C214] interacts with 2 human partners:{Q9Y2X0;Q15596}

8697 Pathogen[ P03346] interacts with 3 human partners:{P28702;Q15596;Q9Y2X0}

8698 Pathogen[ Q85601] interacts with 3 human partners:{Q9Y2X0;P28702;Q15596}

8699 Pathogen[ P14079] interacts with 3 human partners:{Q9Y2X0;Q15596;P28702}

8700 Pathogen[ P03383] interacts with 3 human partners:{Q15596;P28702;Q9Y2X0}

8701 Pathogen[ P03410] interacts with 3 human partners:{P28702;Q15596;Q9Y2X0}

8702 Pathogen[ P14075] interacts with 3 human partners:{P28702;Q9Y2X0;Q15596}

8703 Pathogen[ P0C206] interacts with 3 human partners:{P28702;Q15596;Q9Y2X0}

8704 Pathogen[ P03363] interacts with 2 human partners:{Q15596;P28702}

8705 [Cluster 792]GO:0004177+F molecular\_function [name] aminopeptidase activity [def] "Catalysis of the hydrolysis of N-terminal amino acid residues from in a polypeptide chain." [GOC

8706 Pathogen[ Q2Q067] interacts with 2 human partners:{P28838;Q13867}

8707 Pathogen[ P0C214] interacts with 3 human partners:{P28838;Q13867;Q9NY33}

8708 Pathogen[ P03346] interacts with 1 human partners:{Q13867}

8709 Pathogen[ Q85601] interacts with 1 human partners:{Q13867}

8710 Pathogen[ P14079] interacts with 5 human partners:{P28838;Q8NDH3;P29144;Q13867;Q9NY33}

8711 Pathogen[ P03383] interacts with 2 human partners:{P28838;Q13867}

8712 Pathogen[ P03410] interacts with 4 human partners:{Q8NDH3;Q13867;P28838;Q9NY33}

8713 Pathogen[ P14075] interacts with 2 human partners:{Q13867;P28838}

8714 Pathogen[ P0C206] interacts with 5 human partners:{P29144;P28838;Q13867;Q9NY33;Q8NDH3}

8715 Pathogen[ P03363] interacts with 1 human partners:{Q13867}

8716 [Cluster 793]GO:0016874+F molecular\_function [name] ligase activity [def] "Catalysis of the joining of two substances, or two groups within a single molecule, with the concomitant hydrolysis of the diphosphate bond in ATP or a similar triphosphate." [EC

8717 Pathogen[ Q2Q067] interacts with 118 human partners:{O95363;O95376;Q8NH2;Q96J02;Q8WV44;P23381;Q14258;Q9UPN9;Q9HAU4;Q7Z6J0;P49591;O75925;Q9UII4;Q9NS56;P49792;Q9Y285;P62837;P53804;Q8IUV8;Q12986;Q15386;P19474;O60260;P49427;O00762;Q9HAB8;Q9Y2X8;O43255;Q96T88;Q9NVW2;O00257;Q15046;Q12933;Q9NSD9;P14373;P60604;Q6ZNA4;P63279;Q5T160;Q6VVB1;O75928;Q7Z6Z7;P51965;Q96I59;Q8IU81;O43776;Q14669;P61077;P63146;Q9Y297;P78317;Q5TA31;Q86Y13;Q99728;Q9Y4X5;P41252;Q9NPD8;O14933;O95628;P51668;Q8TBB1;Q96EP1;Q13114;Q96PM5;Q86UW9;Q9Y6X2;P11161;Q9NTX7;Q13426;Q96PU5;P07814;O15164;P61088;Q9Y4L5;O60291;Q9P2R7;Q99496;Q5VTR2;Q96FA3;O94874;O76064;Q9NWF9;Q8TDB6;Q9C035;P54136;O75150;Q9NR09;Q9UNE7;Q6PI48;P49459;Q9HA77;Q96PU4;Q05086;P62256;Q9BW92;Q96MF7;P68036;P41250;Q86Y01;P49589;Q9HCM9;Q9HAT8;Q9Y252;Q13490;P22681;Q9NT62;Q00987;Q9P2J5;Q66K89;Q06587;P62877;P14868;Q8IUD6;Q7Z6E9;Q9NW38;Q13064;Q8N2W9;Q9UBS8}

8718 Pathogen[ P0C214] interacts with 166 human partners:{P22681;Q05086;P41250;O14933;Q96B02;Q96J02;Q9Y6X2;Q14527;Q9H832;Q8IUV8;P49589;Q05932;Q7Z6J0;Q16763;Q96PM5;Q9NSE4;P19474;Q7L3T8;Q9HAU4;O95363;Q9UGM6;Q99728;Q8WV44;O00762;Q9HAB8;Q13490;O75925;Q96I59;Q9NP81;P12081;P23381;O95628;Q00987;P49427;P49590;P07814;Q9NS56;Q9C035;Q8N2W9;Q9Y285;P41252;Q5JTZ9;Q96FA3;Q9NTX7;Q96PU4;Q12986;Q8IUD6;P63279;Q9HAT8;P49459;Q8NH2;P49792;Q8NG27;Q969T4;Q5JPH6;O43776;Q9Y297;Q8N2H9;P62877;O00308;Q15031;P14868;Q5T447;Q13064;P49591;P51965;Q96T88;P78317;Q9H0M0;O94874;Q9NWF9;P61077;Q9P2R7;Q9HCE7;Q14258;P50747;P62253;P98170;Q13426;P56192;P61086;O95071;Q7Z6E9;Q06587;P26639;Q9Y2X8;Q15386;O95376;Q12933;Q9NVW2;Q96MF7;Q9UII4;P54577;O00257;A2RTX5;P53804;Q9UBS8;Q9NRF8;Q9HA77;Q9HCM9;Q8TBB1;P49588;Q96GW9;Q9Y252;Q5TA31;Q6ZNA4;Q99496;Q9H4P4;Q14669;O00442;O60291;Q8IU81;O15164;Q13114;Q9NPC3;Q96I99;Q86Y13;P11161;O75150;Q969M7;Q9NR09;Q7Z6Z7;Q5T160;P47897;Q9BW92;A6NK58;Q6PI48;O60260;Q712K3;P62256;Q9Y4L5;P51668;P14373;Q9NSD9;P26640;Q15046;P17812;Q86Y01;Q9Y4X5;Q5VTR2;Q8TDB6;Q8IYW5;O43255;Q5ST30;Q9NT62;Q9UNE7;Q96CA5;O76064;Q9NPD8;Q9UPN9;P61081;Q96LR5;Q86UW9;Q66K89;P11586;P63146;Q6VVB1;P61088;Q96PU5;Q9NW38;Q8IUV7;Q9Y2Z4;Q96EP1;O75928;P60604;Q9P2J5}

8719 Pathogen[ P03346] interacts with 145 human partners:{Q9NS91;Q9UPN9;Q96J02;P23381;O75592;Q13263;Q86UW9;Q9H9P5;O76064;Q9HAU4;Q96MF7;Q96PU5;P68036;Q14258;P14373;Q6PCD5;O75150;Q9NWF9;Q13489;Q5VTR2;Q8IU81;Q7Z6J0;O95376;O95714;P49427;Q9BYM8;Q99728;P07814;Q8NH2;Q8IUD6;O95628;Q14527;Q13426;Q9UII4;Q96PM5;Q9H4P4;O43255;Q12986;Q9NTX7;P98170;Q9C035;Q8WV22;Q9NT62;P63279;O00257;Q15386;O43776;P49459;Q9Y2X8;Q5TA31;Q13114;P51668;Q66K89;P41252;Q5T447;Q96AX9;P61077;Q00987;Q96FA3;P61088;P41250;P62877;O75925;Q96EP0;Q9NS56;Q9Y285;Q8IYM9;P60604;O94972;P51965;Q9P2J5;Q7Z



- 6E9;P63146;Q8N841;Q9UNE7;O00762;Q9HCM9;Q9HAT8;Q8N2H9;Q14669;P62837;P54136;Q13064;Q8IUQ4;Q9C040;Q6ZNA4;Q6Q0C0;P14868;Q9NPD8;Q99496;P78317;Q8N2W9;Q8IYW5;Q8TBB1;Q6VVBL;Q9UBS8;P49589;O60291;O60260;Q7Z6J8;P11161;Q9NPC3;Q8IYW8;P19474;O14933;Q9NR09;Q13490;Q9ULT8;Q6PI48;Q9Y4L5;Q96PU4;P22681;Q05086;P62256;Q8TDB6;Q9H0M0;P53804;Q9Y4X5;Q9Y6X2;Q9Y252;Q9NW38;Q86Y01;Q95071;Q9HAB8;Q9BZR9;Q75928;Q96CA5;Q8NG27;Q9Y297;Q94874;Q7Z6Z7;Q06587;O94822;Q8TEC5;O15164;A0AVT1;Q96T88;Q86Y13;Q9NVW2;Q96EP1;Q6EMB2;P49792;Q8WV44;O00308;Q5U5Q3}
- 8720 Pathogen[ Q85601] interacts with 142 human partners: {Q7Z6E9;Q9UPN9;Q96J02;P78317;Q13064;P54136;Q9NSD9;P62253;P22681;Q9HAU4;Q9NS56;P14373;Q16763;Q75928;Q13490;Q8TDB6;P26639;P63146;O14933;P14868;Q14258;Q8WV44;P49589;Q8IYW7;O95714;P49427;Q9P2J5;Q9Y2X8;P07814;Q9Y6X2;P62877;Q13426;Q6PCD5;Q9HAT8;Q96PM5;Q96PU4;Q99728;Q9Y4L5;P23381;P98170;Q96PU5;Q969T4;Q9BZR9;Q14669;Q9NWF9;Q15046;Q8IUD6;Q15386;O43776;Q96B02;Q8N2W9;O15164;Q9NPD8;Q9BW92;Q5TA31;Q13114;Q9Y285;P51668;Q96LR5;P68036;P61077;Q9P2R7;P63279;Q96FA3;Q9HA77;Q13263;O60291;P41250;Q5T160;Q7Z6J0;Q86UW9;O76064;Q8IU81;Q12933;P51965;O95628;A2RTX5;Q8IYM9;P61086;Q96T88;O00762;Q9NTX7;Q96I59;Q9NW38;Q99496;P49459;Q8IYW5;Q8TBB1;Q6VVBL;Q9C035;O75150;O95363;O95376;O60260;Q9NT62;Q5VTR2;Q9Y252;P62837;Q9NPC3;Q6ZNA4;Q9H832;Q9NR09;Q9UBS8;Q7Z6Z7;P47897;Q969M7;Q6PI48;Q05086;Q66K89;P49792;P62256;Q96EP1;P41252;Q9H4P4;P19474;P53804;Q86Y01;P61088;O95071;O00257;Q14527;O43255;Q6Q0C0;Q00987;P60604;Q96CA5;Q8NG27;Q9UNE7;Q8WV22;O94874;O75925;Q8NHY2;Q06587;P11161;Q9Y4X5;Q86Y13;Q9NVW2;Q9HCM9;Q8IYW8;Q96MF7;Q9NS91;Q12986}
- 8721 Pathogen[ P14079] interacts with 129 human partners: {Q8N2W9;Q12986;Q9Y285;O60260;P53804;O15164;O00442;P23381;O95628;P26639;Q9HAT8;P51965;Q5TA31;Q96GW9;Q9P2J5;P63279;P14373;O75879;Q7L3T8;Q96MF7;Q9NT62;Q9BW92;O43716;Q9HOR6;Q9C035;O75928;P54136;Q8IYW8;P68036;Q9Y6X2;P22234;P17812;Q15031;Q5T160;Q9H0Y0;Q5ST30;Q9NPD8;Q9NP81;P60604;O94874;P47897;O95363;Q96EP0;Q8N2H9;P49591;A2RTX5;Q6ZNA4;P14868;O95922;Q9P2R7;Q7Z6J8;Q9HAU4;Q14258;P61077;Q9Y4R7;P62877;Q9HCM9;Q9HA77;Q96FA3;Q8IYW7;Q9NR09;Q00987;Q8TBB1;Q9NRF8;O43776;Q5JPH6;P62256;Q9NPC3;A6PVC2;Q7Z6E9;Q86Y01;Q99496;P49589;P51668;O00257;Q15046;Q9UPN9;P11161;Q9NWF9;P19474;Q5VTR2;P41252;Q969M7;Q66K89;P49459;P41250;Q86UW9;Q96I59;Q9BYM8;P26640;Q8N841;P56192;Q9NSD9;Q9NS56;Q96J02;Q9Y2Z4;Q6IA69;Q13064;P49915;Q12933;Q9Y2X8;O75925;P49427;Q9UBS8;Q9UGM6;P78317;Q6EMB2;Q9NSE4;P62837;O15067;O00762;Q8IU81;P49588;Q6PI48;Q8WV44;Q9NW38;A6NK58;O14933;P63146;Q13426;Q05932;P07814;Q8IUD6;P49917;Q9HAB8;Q13114;Q13490;Q8NHY2;Q06587}
- 8722 Pathogen[ P03383] interacts with 96 human partners: {Q9Y285;P19474;O75925;P49792;Q86UW9;Q9P2J5;O14933;P53804;Q8TBB1;P14868;P51965;Q12986;Q9UPN9;Q8IYW8;P49427;Q5JPH6;Q9Y2X8;P49589;Q5T160;Q15031;O00257;Q13490;Q9UBS8;Q9P2R7;Q9NP81;Q96PU4;Q06587;O00762;Q9NTX7;Q6ZNA4;P78317;Q9NT62;Q8N2W9;Q13064;Q96MF7;Q66K89;P61077;O95628;P61088;Q9C035;O60260;P23381;P60604;Q5TA31;Q96I59;Q12933;Q13426;Q15046;A2RTX5;O95376;Q9Y6X2;Q9HCM9;Q96PM5;Q9Y2Z4;O95363;P62837;P07814;Q96GW9;O43255;Q99496;Q9HA77;Q9H832;Q5VTR2;Q9Y252;P11161;Q96FA3;P68036;P62877;Q9NR09;O43776;P49459;Q6PI48;Q9NPD8;Q14258;P62256;P63146;Q96EP1;P41250;Q8NHY2;Q9NW38;Q86Y01;P41252;Q9HAB8;P54136;O75150;Q9NWF9;Q9NSD9;P49591;Q7L3T8;O94874;Q13114;P63279;P51668;Q9HAT8;O75928;Q9BW92}
- 8723 Pathogen[ P03410] interacts with 124 human partners: {Q86UW9;Q8IYW8;Q9H0Y0;Q8NHY2;Q9P2R7;Q9Y4R7;Q9Y285;Q9HA77;O75925;Q6ZNA4;Q9NSE4;P56192;Q99496;Q9HCM9;O95628;O00442;P49915;Q66K89;O75879;Q9NRF8;P49589;Q5ST30;P49427;P17812;Q8WV44;Q9BW92;Q9NWF9;P51965;Q96FA3;P49588;P54136;Q8TBB1;Q9NPC3;P23381;Q13490;Q9Y6X2;P49459;Q7L3T8;O43776;O75928;Q8N2W9;Q5VTR2;Q5TA31;P47897;O60260;Q8IYW7;P68036;P14868;P61088;Q14258;O14933;A6NK58;Q96MF7;Q9NSD9;P22234;Q9P2J5;Q8N2H9;P49591;Q9NR09;Q9C035;Q9UNE7;Q12986;Q86Y01;O75150;Q8IU81;P26639;Q7Z6J0;Q9UBS8;Q96I59;P62256;P78317;P62877;Q9Y4X5;P63146;P41250;O15067;Q9Y2X8;Q13064;Q12933;Q9NT62;Q9H0R6;Q15046;P51668;Q9HAT8;Q13426;Q5JPH6;Q9NPD8;Q9UGM6;P41252;O00762;Q9Y2Z4;P63279;P26640;Q7Z6J8;Q96GW9;O95922;Q969M7;O94874;Q06587;O60291;P07814;Q00987;P60604;O00257;Q9NP81;Q9NW38;A2RTX5;P53804;Q8N841;A6PVC2;Q9HAB8;Q05932;P11161;Q6IA69;O95363;Q6PI48;Q5T160;Q96EP1;Q6EMB2;Q9UPN9;Q13114;P61077;P62837;P49792}
- 8724 Pathogen[ P14075] interacts with 99 human partners: {Q9Y2Z4;Q5VTR2;P53804;P60604;P54136;Q9HAB8;Q96PM5;P41250;P23381;P68036;Q9NTX7;O94874;P62837;Q13064;P49427;Q9NT62;Q9NSD9;P61088;Q9Y252;P49459;P11161;P49792;Q96PU4;P51965;P41252;O75925;O95363;O14933;Q7Z6J8;Q8N2W9;Q9Y2X8;P63279;P61077;Q96GW9;Q9HA77;Q9NP81;O43255;Q9HCM9;Q9NW38;Q9NPD8;O00257;Q9Y285;O95628;Q9NWF9;Q06587;Q12986;Q6ZNA4;O00762;Q7L3T8;Q13490;P56192;Q12933;A2RTX5;Q9UPN9;Q9BW92;O43776;O75150;Q9HAT8;O75928;Q96FA3;P19474;Q9C035;Q13114;P14868;Q5T160;P78317;Q9P2J5;Q14258;Q8NHY2;Q99496;Q13426;Q66K89;P26639;O95376;Q9NR09;Q9UBS8;Q6PI48;Q96I59;P62256;P63146;Q5TA31;P49589;Q96MF7;Q5JPH6;Q86Y01;Q15046;Q8TBB1;P51668;O60260;Q9NSE4;Q15031;Q9Y6X2;P49591;P07814;P62877;Q86UW9;Q96EP1;Q9P2R7;Q8IYW8}
- 8725 Pathogen[ P0C206] interacts with 171 human partners: {P49589;O95363;Q16763;Q9Y2X8;Q86Y01;Q96AX9;Q9NSE4;Q96PU5;P07814;Q9NS56;O60291;P62877;Q9NPD8;P62253;Q6PCD5;Q8N2H9;Q8WV22;Q9H4P4;Q9Y2Z4;Q86UW9;Q9UPN9;Q9Y4L5;Q7Z6J0;Q13114;Q9NVW2;O43255;Q13263;Q8IYW5;O95376;O00308;P11161;Q9HAU4;O75925;P68036;O14933;Q8NG27;Q969M7;P41252;Q14258;Q6PI48;Q96EP1;Q5ST30;Q6ZNA4;O94822;Q8IUQ4;Q05086;Q12933;Q96J02;A2RTX5;Q9HAT8;Q9NWF9;Q9UGM6;Q5JPH6;Q9NP81;Q96LR5;P62837;P53804;Q9NS91;Q9HA77;Q9P2R7;Q9NPC3;P98170;O15164;Q8IUD6;P41250;Q12933;P78317;P49427;Q14669;P26640;Q5VTR2;O95628;Q9Y6X2;P49591;Q5TA31;Q9HAB8;Q8TDB6;Q15386;O43776;Q9Y4X5;Q712K3;P51965;Q13064;P49792;P61088;Q9Y285;P49917;Q7Z6J8;P60604;P22681;Q9NSD9;Q9NR09;Q9BZR9;Q96EP0;Q8NHY2;Q8IYW7;Q9UNE7;P49459;Q12986;Q13426;O95922;Q9UBS8;Q96T88;Q06587;O94874;O60260;Q99728;Q8N841;Q5T160;Q8TBB1;P62256;Q9BW92;P49916;Q969T4;O00762;Q96MF7;Q9C035;P56192;Q8IYW8;Q13489;Q14527;P54136;Q96FA3;Q9HCM9;Q8IYM9;P26639;Q9H832;Q96CA5;Q96PM5;Q15031;Q8WV44;P61077;Q



7Z6Z7;Q9NT62;P61086;O00257;P14373;Q7L3T8;Q00987;Q9P2J5;Q7Z6E9;Q9NTX7;Q8IU81;Q9BYM8;A6  
 NK58;Q66K89;Q96B02;Q9Y252;O76064;Q86Y6T;O95071;P23381;P51668;Q6VVB1;Q6EMB2;O75150;O95  
 714;P47897;P14868;Q86Y13;Q6Q0C0;Q99496;Q96PU4;Q96GW9;Q9NW38;Q96I59;Q05932;P63146;P194  
 74;Q15046;Q13490}

8726 Pathogen[ P03363] interacts with 152 human partners:{O95376;P22681;Q9NWF9;Q9Y2Z4;Q86Y01;Q9NW38;Q13490;Q9Y252;Q8TDB6;Q9H832;O9497  
 2;Q96EP1;P51965;P60604;Q9BZR9;P41252;Q6EMB2;P49459;Q9NSD9;O95628;Q9H9P5;A2RTX5;O00762  
 ;Q5U5Q3;Q9HAU4;O60291;Q8IU81;P14373;P22314;Q96EP0;Q86Y13;Q96I59;O14933;P14868;Q7Z569;  
 P61081;Q14258;P49589;Q9ULT8;P41250;Q7Z6E9;Q12933;O95922;Q9NTX7;P78317;Q9NPC3;Q8WV44;Q  
 5VTR2;Q66K89;P47897;Q99496;Q5JPH6;Q9UPN9;O43776;Q8IYW5;Q8TBB1;Q6VVB1;P63146;Q9NT62;Q8  
 N2H9;P49427;P23381;Q12986;Q05086;Q9C040;O75150;Q6ZNA4;Q7Z6J8;Q8NG27;Q7Z6Z7;P61088;Q9Y  
 6X2;Q14669;P54136;Q13426;Q9Y4X5;P62877;Q9NR09;Q96FA3;Q96PU5;Q13489;Q14527;Q6PI48;Q6PC  
 D5;Q9UNE7;Q86UW9;P19474;P98170;P49792;Q8N841;Q96PM5;P62256;Q9C035;O75925;Q969T4;O9536  
 3;P63279;O95071;Q9UBS8;Q9H4P4;Q15386;P51668;Q9UBE0;Q8IUD6;Q9P2J5;O00308;Q9NPD8;O95714  
 ;Q9BW92;Q5TA31;Q7Z6J0;P53804;Q13114;P49591;Q9HCM9;Q9Y285;Q96T88;Q96CA5;Q969M7;Q9Y4L5;  
 Q8WV22;Q7L3T8;P61077;Q8IYW8;Q9NVW2;Q15031;Q8NHV2;Q06587;Q99728;O94822;Q9HAT8;Q8TEC5;Q  
 9Y2X8;P62837;Q9H0M0;P07814;Q96PU4;O43255;Q8N2W9;O94874;Q9NS91;O00257;Q96MF7;Q5T160;Q9  
 UII4;Q7Z7E8;Q5T447;A0AVT1;Q96AX9;O75928;P68036;P11161}

8727 [Cluster 794]GO:0031071+F molecular\_function [name] cysteine desulfurase activity  
 [def] "Catalysis of the reaction

8728 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9Y697}

8729 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y697}

8730 Pathogen[ P03346] interacts with 1 human partners:{Q9Y697}

8731 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y697}

8732 Pathogen[ P14079] interacts with 1 human partners:{Q9Y697}

8733 Pathogen[ P03383] interacts with 1 human partners:{Q9Y697}

8734 Pathogen[ P03410] interacts with 1 human partners:{Q9Y697}

8735 Pathogen[ P14075] interacts with 1 human partners:{Q9Y697}

8736 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y697}

8737 Pathogen[ P03363] interacts with 1 human partners:{Q9Y697}

8738 [Cluster 795]GO:0030350+F molecular\_function [name] iron-responsive element binding  
 [def] "Interacting selectively and non-covalently with the iron-responsive element, a  
 regulatory sequence found in the 5'- and 3'-untranslated regions of mRNAs encoding many  
 iron-binding proteins." [PMID

8739 Pathogen[ Q2Q067] interacts with 2 human partners:{P21399;P48200}

8740 Pathogen[ P0C214] interacts with 3 human partners:{P48200;P22830;P21399}

8741 Pathogen[ P03346] interacts with 2 human partners:{P48200;P21399}

8742 Pathogen[ Q85601] interacts with 2 human partners:{P21399;P48200}

8743 Pathogen[ P14079] interacts with 3 human partners:{P21399;P48200;P22830}

8744 Pathogen[ P03383] interacts with 1 human partners:{P48200}

8745 Pathogen[ P03410] interacts with 3 human partners:{P21399;P22830;P48200}

8746 Pathogen[ P14075] interacts with 1 human partners:{P48200}

8747 Pathogen[ P0C206] interacts with 3 human partners:{P48200;P22830;P21399}

8748 Pathogen[ P03363] interacts with 1 human partners:{P48200}

8749 [Cluster 796]GO:0046961+F molecular\_function [name] proton-transporting ATPase  
 activity, rotational mechanism [def] "Catalysis of the transfer of a solute or solutes  
 from one side of a membrane to the other according to the reaction

8750 Pathogen[ Q2Q067] interacts with 1 human partners:{P36543}

8751 Pathogen[ P0C214] interacts with 4 human partners:{Q16864;Q9UI12;P36543;P36542}

8752 Pathogen[ P03346] interacts with 3 human partners:{P21283;P36543;Q16864}

8753 Pathogen[ Q85601] interacts with 1 human partners:{P36543}

8754 Pathogen[ P14079] interacts with 7 human partners:{P36543;P36542;P25705;Q5VTU8;Q9UI12;P56381;Q16864}

8755 Pathogen[ P03383] interacts with 1 human partners:{P36543}

8756 Pathogen[ P03410] interacts with 7 human partners:{P36542;P25705;P56381;Q5VTU8;Q9UI12;Q16864;P36543}

8757 Pathogen[ P14075] interacts with 1 human partners:{P36543}

8758 Pathogen[ P0C206] interacts with 5 human partners:{P36543;P36542;Q9UI12;Q16864;P56381}

8759 Pathogen[ P03363] interacts with 1 human partners:{P36543}

8760 [Cluster 797]GO:0045159+F molecular\_function [name] myosin II binding [def]  
 "Interacting selectively and non-covalently with a class II myosin, any member of the  
 class of 'conventional' double-headed myosins that includes muscle myosin." [GOC

8761 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8N6F7}

8762 Pathogen[ P0C214] interacts with 1 human partners:{Q8N6F7}

8763 Pathogen[ P03346] interacts with 1 human partners:{Q8N6F7}

8764 Pathogen[ Q85601] interacts with 1 human partners:{Q8N6F7}

8765 Pathogen[ P14079] interacts with 2 human partners:{Q9H2D6;Q8N6F7}

8766 Pathogen[ P03383] interacts with 1 human partners:{Q8N6F7}

8767 Pathogen[ P03410] interacts with 2 human partners:{Q8N6F7;Q9H2D6}

8768 Pathogen[ P14075] interacts with 1 human partners:{Q8N6F7}

8769 Pathogen[ P0C206] interacts with 1 human partners:{Q8N6F7}

8770 Pathogen[ P03363] interacts with 2 human partners:{Q8N6F7;Q9H2D6}

8771 [Cluster 798]GO:0016620+F molecular\_function [name] oxidoreductase activity, acting on  
 the aldehyde or oxo group of donors, NAD or NADP as acceptor [def] "Catalysis of an  
 oxidation-reduction (redox) reaction in which an aldehyde or ketone (oxo) group acts as a

hydrogen or electron donor and reduces NAD or NADP." [GOC

8772 Pathogen[ Q2Q067] interacts with 3 human partners: {P49419;P04406;O14556}

8773 Pathogen[ P0C214] interacts with 3 human partners: {P49419;O14556;P04406}

8774 Pathogen[ P03346] interacts with 3 human partners: {P04406;P49419;O14556}

8775 Pathogen[ Q85601] interacts with 3 human partners: {O14556;P04406;P49419}

8776 Pathogen[ P14079] interacts with 1 human partners: {P04406}

8777 Pathogen[ P03383] interacts with 3 human partners: {O14556;P04406;P49419}

8778 Pathogen[ P03410] interacts with 3 human partners: {O14556;P49419;P04406}

8779 Pathogen[ P14075] interacts with 3 human partners: {P04406;P49419;O14556}

8780 Pathogen[ P0C206] interacts with 3 human partners: {O14556;P04406;P49419}

8781 Pathogen[ P03363] interacts with 3 human partners: {P49419;P04406;O14556}

8782 [Cluster 799]GO:0019903+F molecular\_function [name] protein phosphatase binding [def] "Interacting selectively and non-covalently with any protein phosphatase." [GOC

8783 Pathogen[ Q2Q067] interacts with 15 human partners: {Q9UJX3;Q9UJX5;P56945;Q5H9R7;P78352;Q9UPN7;Q92796;P15927;Q9UQK1;Q9UJX4;P27986;P30260;P46527;P14625;O60716}

8784 Pathogen[ P0C214] interacts with 18 human partners: {Q5H9R7;P14625;P56945;P62993;O60716;Q92934;Q92796;Q9UJX5;P46527;P78352;P15927;Q9UJX4;Q9UJX3;P30260;Q9UPN7;P27986;Q9UQK1;P55072}

8785 Pathogen[ P03346] interacts with 20 human partners: {Q9UQK1;O60716;P14625;P78352;P62993;P55072;Q92796;Q5H9R7;P56945;O60493;Q9UJX5;P15927;Q9UJX3;Q96T49;Q9UJX4;Q9UQ13;P30260;Q9UPN7;P46527;P27986}

8786 Pathogen[ Q85601] interacts with 17 human partners: {P62993;Q9UQK1;P27986;O60716;P56945;P15927;Q9UJX5;P78352;Q92796;Q9UJX3;Q9UJX4;Q9UPN7;P14625;P30260;Q5H9R7;P51955;P46527}

8787 Pathogen[ P14079] interacts with 18 human partners: {Q9UPN7;O60493;Q9UJX3;Q9UJX5;P51955;Q92934;B7ZBB8;Q9UQK1;Q96T49;P14625;P15927;P62993;P30260;P46527;Q92796;O60716;Q9UJX4;Q5H9R7}

8788 Pathogen[ P03383] interacts with 15 human partners: {O60716;P27986;P56945;Q9UQK1;P15927;P46527;P14625;Q5H9R7;Q9UJX4;Q9UPN7;Q9UJX5;Q92796;P30260;Q9UJX3;P78352}

8789 Pathogen[ P03410] interacts with 21 human partners: {O00203;B7ZBB8;P46527;P27986;Q9UJX4;P14625;O60716;Q92934;Q5H9R7;Q96T49;Q92796;Q9UJX5;P30260;Q9UJX3;P56945;P15927;P78352;P62993;O60493;Q9UPN7;Q9UQK1}

8790 Pathogen[ P14075] interacts with 15 human partners: {Q5H9R7;P15927;Q9UQK1;P46527;Q9UPN7;Q9UJX5;P27986;Q92796;Q9UJX4;P78352;O60716;P14625;P30260;Q9UJX3;P56945}

8791 Pathogen[ P0C206] interacts with 22 human partners: {O60716;P78352;Q9UJX3;Q5H9R7;P51955;Q9UJX5;Q9UQK1;O60493;P30260;P27986;P62993;Q92934;Q96T49;Q9UJX4;P46527;B7ZBB8;P55072;Q9UPN7;P56945;P15927;Q92796;P14625}

8792 Pathogen[ P03363] interacts with 17 human partners: {Q96T49;P78352;Q9UJX3;Q9UJX5;P15927;P30260;O60493;Q9UJX4;Q9UPN7;B7ZBB8;Q9UQK1;Q9UQ13;P56945;Q92796;O60716;P27986;Q5H9R7}

8793 [Cluster 800]GO:0008073+F molecular\_function [name] ornithine decarboxylase inhibitor activity [def] "The stopping, prevention or reduction of the activity of the enzyme ornithine decarboxylase." [GOC

8794 Pathogen[ Q2Q067] interacts with 2 human partners: {Q9UMX2;O95190}

8795 Pathogen[ P0C214] interacts with 3 human partners: {P54368;Q9UMX2;O95190}

8796 Pathogen[ P03346] interacts with 2 human partners: {Q9UMX2;O95190}

8797 Pathogen[ Q85601] interacts with 2 human partners: {Q9UMX2;O95190}

8798 Pathogen[ P14079] interacts with 3 human partners: {Q9UMX2;O95190;P54368}

8799 Pathogen[ P03383] interacts with 1 human partners: {O95190}

8800 Pathogen[ P03410] interacts with 3 human partners: {O95190;P54368;Q9UMX2}

8801 Pathogen[ P14075] interacts with 1 human partners: {O95190}

8802 Pathogen[ P0C206] interacts with 3 human partners: {P54368;O95190;Q9UMX2}

8803 Pathogen[ P03363] interacts with 2 human partners: {Q9UMX2;O95190}

8804 [Cluster 801]GO:0005262+F molecular\_function [name] calcium channel activity [def] "Catalysis of facilitated diffusion of a calcium ion (by an energy-independent process) involving passage through a transmembrane aqueous pore or channel without evidence for a carrier-mediated mechanism." [GOC

8805 Pathogen[ Q2Q067] interacts with 1 human partners: {Q93034}

8806 Pathogen[ P0C214] interacts with 1 human partners: {Q93034}

8807 Pathogen[ P03346] interacts with 1 human partners: {Q93034}

8808 Pathogen[ Q85601] interacts with 1 human partners: {Q93034}

8809 Pathogen[ P14079] interacts with 2 human partners: {Q8NE86;Q93034}

8810 Pathogen[ P03383] interacts with 1 human partners: {Q93034}

8811 Pathogen[ P03410] interacts with 3 human partners: {Q8NE86;Q8IU99;Q93034}

8812 Pathogen[ P14075] interacts with 1 human partners: {Q93034}

8813 Pathogen[ P0C206] interacts with 2 human partners: {Q8NE86;Q93034}

8814 Pathogen[ P03363] interacts with 1 human partners: {Q93034}

8815 [Cluster 802]GO:0055056+F molecular\_function [name] D-glucose transmembrane transporter activity [def] "Catalysis of the transfer of the D-enantiomer of the hexose monosaccharide glucose from one side of the membrane to the other." [GOC

8816 Pathogen[ Q2Q067] interacts with 2 human partners: {P11166;P14672}

8817 Pathogen[ P0C214] interacts with 3 human partners: {P11166;P11168;P14672}

8818 Pathogen[ P03346] interacts with 2 human partners: {P11166;P14672}

8819 Pathogen[ Q85601] interacts with 3 human partners:{P11168;P11166;P14672}  
8820 Pathogen[ P14079] interacts with 2 human partners:{P14672;P11166}  
8821 Pathogen[ P03383] interacts with 2 human partners:{P11168;P14672}  
8822 Pathogen[ P03410] interacts with 2 human partners:{P11166;P11168}  
8823 Pathogen[ P14075] interacts with 2 human partners:{P11168;P14672}  
8824 Pathogen[ P0C206] interacts with 3 human partners:{P11166;P11168;P14672}  
8825 Pathogen[ P03363] interacts with 2 human partners:{P14672;P11166}  
8826 [Cluster 803]GO:0031996+F molecular\_function [name] thioesterase binding [def]  
"Interacting selectively and non-covalently with any thioesterase enzyme." [GOC  
8827 Pathogen[ Q2Q067] interacts with 7 human  
partners:{Q13077;Q12933;Q99871;Q13114;P60953;P63000;O00463}  
8828 Pathogen[ P0C214] interacts with 6 human  
partners:{P63000;P60953;Q12933;Q99871;Q13114;O00463}  
8829 Pathogen[ P03346] interacts with 7 human  
partners:{Q13077;O00463;Q99871;P60953;Q13114;Q9BUZ4;P63000}  
8830 Pathogen[ Q85601] interacts with 7 human  
partners:{Q99871;O00463;P63000;Q13114;Q12933;P60953;Q13077}  
8831 Pathogen[ P14079] interacts with 6 human  
partners:{O00463;Q99871;Q9BUZ4;Q13077;Q12933;Q13114}  
8832 Pathogen[ P03383] interacts with 5 human  
partners:{P60953;P63000;Q99871;Q12933;Q13114}  
8833 Pathogen[ P03410] interacts with 7 human  
partners:{P63000;Q13077;O00463;Q12933;P60953;Q99871;Q13114}  
8834 Pathogen[ P14075] interacts with 5 human  
partners:{P60953;Q99871;Q12933;Q13114;P63000}  
8835 Pathogen[ P0C206] interacts with 8 human  
partners:{Q13077;Q13114;Q12933;Q9BUZ4;P63000;P60953;O00463;Q99871}  
8836 Pathogen[ P03363] interacts with 8 human  
partners:{Q12933;O00463;P63000;Q13077;Q99871;Q13114;Q9BUZ4;P60953}  
8837 [Cluster 804]GO:0030306+F molecular\_function [name] ADP-ribosylation factor binding  
[def] "Interacting selectively and non-covalently with ARF, ADP-ribosylation factor, a  
small monomeric cytosolic GTPase that, when bound to GTP, binds to the membranes of  
cells." [ISBN  
8838 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9UJY4;O75154;Q9NZ52}  
8839 Pathogen[ P0C214] interacts with 3 human partners:{Q9UJY4;Q9NZ52;O75154}  
8840 Pathogen[ P03346] interacts with 4 human partners:{Q9UJY4;Q86YS3;O75154;Q9NZ52}  
8841 Pathogen[ Q85601] interacts with 4 human partners:{O75154;Q9UJY4;Q86YS3;Q9NZ52}  
8842 Pathogen[ P14079] interacts with 4 human partners:{Q9UJY4;Q86YS3;Q9NZ52;O75154}  
8843 Pathogen[ P03383] interacts with 3 human partners:{Q9UJY4;O75154;Q9NZ52}  
8844 Pathogen[ P03410] interacts with 4 human partners:{O75154;Q9NZ52;Q86YS3;Q9UJY4}  
8845 Pathogen[ P14075] interacts with 3 human partners:{Q9UJY4;Q9NZ52;O75154}  
8846 Pathogen[ P0C206] interacts with 4 human partners:{O75154;Q9UJY4;Q9NZ52;Q86YS3}  
8847 Pathogen[ P03363] interacts with 3 human partners:{Q9UJY4;Q9NZ52;O75154}  
8848 [Cluster 805]GO:0003674+F molecular\_function [name] molecular\_function [def]  
"Elemental activities, such as catalysis or binding, describing the actions of a gene  
product at the molecular level. A given gene product may exhibit one or more molecular  
functions." [GOC  
8849 Pathogen[ Q2Q067] interacts with 201 human  
partners:{Q5VSL9;O95411;Q9HD33;O43290;O95671;Q9NYP9;Q99865;Q14657;O94973;Q5TD94;Q96S6  
5;P98182;Q96EL2;A5PL33;Q96NU7;O75474;P59022;Q7Z4H7;Q9GZW5;Q9NVU7;Q9HB96;Q5SRH9;P23610  
;Q53EQ6;P10073;O00193;Q9HCN2;Q9BZQ8;Q9ULD5;Q0PNE2;Q96BZ8;P57060;Q9UKJ3;O94927;Q15059;  
Q9BXM0;O60829;P49750;Q5VYK3;P05813;A6NNW6;Q12765;Q8NDF8;Q9UM82;Q9UJY5;Q9UKY7;Q9UP83;A  
3KN83;Q6QNY0;Q9BZV1;Q9H322;O15453;P56555;Q8IWL3;Q9Y5R5;P53672;Q4LE39;Q9NVX0;O60356;Q8  
TDN6;Q03252;Q9BY42;Q9H5F2;Q8NBR6;Q04727;Q9Y3R5;Q9ULQ0;P53801;O95990;Q86V97;Q5T280;O95  
625;Q9Y2B4;Q7RTU5;Q9NY87;Q96NJ6;Q9BZE9;Q9NZP6;O14972;O43583;Q8N3J9;Q96AQ7;Q9NYZ3;Q159  
37;Q9Y2A0;Q9H6Y2;Q14181;Q9BZE7;Q9NS25;O60287;Q9Y2Q9;Q15935;Q7Z7K6;Q2TAL8;Q9H2C0;Q63HK  
3;P49901;Q9UII5;Q05084;Q9NWX4;Q9BZW7;Q9H2W6;Q15050;Q9BZD4;Q96A73;Q13495;Q96DF8;Q6IQ32  
;Q9BTE7;Q9UKZ1;P43358;Q69YI7;P50221;Q9NZH5;Q96JM7;P53992;Q9UKJ5;O60826;O95486;Q9HB07;  
Q9NPI8;Q9BUW7;Q9NZM5;Q9BT25;O94855;P62269;Q9H6D7;Q99618;Q68D10;Q9NRG9;Q9Y592;Q9BVC6;O  
75920;Q4VC05;Q8NOV3;Q12980;Q9NSI6;Q9H0A9;P12036;P41162;Q0VDD7;Q9UN36;Q9Y6Z5;Q8N720;O7  
5564;Q9H1B7;O43913;Q9Y4K1;Q99619;O76042;O75638;Q9H9J2;O60290;Q96Q35;Q9H0U9;Q13642;Q9U  
BL0;Q9BQ65;Q5TEC3;Q8WVZ9;P0C7X2;Q12894;Q9BW92;Q92670;P82664;Q96FN9;Q3SYG4;Q9BZF9;P841  
01;P62266;Q96M91;P43359;Q8WYQ3;Q9BYS1;Q01850;Q5T7W7;Q9HCM9;Q9UH90;P09496;Q9Y421;Q969X  
6;Q9Y675;P27469;Q96CS2;Q92917;Q9P0V3;Q14602;Q6PI98;Q7Z794;P49754;Q14129;Q01534;P25398  
;Q68CZ6;Q9NQ50;Q9NYP3;P43360;O14879;Q14693;Q9Y5P3;Q9NQR4}  
8850 Pathogen[ P0C214] interacts with 239 human  
partners:{Q9HD33;P27469;Q6RFH5;Q6IQ32;O94927;O95671;Q96S65;Q15059;Q14264;Q8N573;Q96EL  
2;P49754;Q9H9J2;Q9BQ65;Q12894;P84101;Q04727;P53672;Q8WUX2;Q9H6Y2;Q63HK3;Q9ULD5;P49901  
;Q9H4I8;Q53EQ6;P53992;O15194;Q8NDF8;Q9UJJ7;Q9UJY5;Q9P0V3;Q9NYK5;Q96M91;O43913;Q9UH90;  
O14879;Q99865;P43360;O60826;Q9UKJ5;Q7Z4H7;P43358;Q7Z794;Q13015;O60829;Q9NUA8;Q5SRH9;Q  
9BTE6;O95625;Q5VYK3;Q8NBR6;Q9BXM0;Q53S33;Q96A73;P05813;Q0VDD7;Q15050;Q9NSI6;Q9Y2A0;Q8  
WVZ9;Q9Y2Q9;Q9H0A9;P62266;Q14129;Q8NEY3;Q9NYP3;Q7RTU5;Q9UII5;O60287;O76042;Q8IWL3;P82  
664;Q8WXG1;Q96C11;Q8TDN6;Q9NZP6;Q01534;Q8IWE4;Q5VSL9;Q9BZV1;O60290;Q6QNY0;O75564;Q9Y5  
P3;Q9UKJ3;Q96CS2;Q9BZE9;Q86V97;Q9BY42;Q14696;Q13642;Q9ULQ0;Q9Y421;Q9ULQ0;Q9Y6Z5;Q9HB96;A6NNW  
6;Q6PI98;P49750;Q03252;P57060;Q12980;Q9NQR4;Q8IYX8;Q9HB07;Q9H0A0;O15453;Q9BZQ8;Q9GZW5  
;Q9NYP9;Q9NZH5;Q96JM7;Q9BT25;Q9NRG9;Q68D10;Q5JTJ3;Q92917;Q969X6;Q96DF8;Q6GMV2;P98169;

Q9BUK6;O60356;Q9BUW7;Q9BZE7;A2RTX5;Q3SYG4;Q99618;P62269;Q9NVU7;Q9BZW7;Q69YI7;O95411;Q9H1B7;Q9NQ50;Q9HCN2;Q3SYA9;Q0PNE2;Q99619;Q9H322;Q2M3D2;Q9HCM9;A3KN83;Q7Z7K6;O00193;Q4LE39;Q01850;P43359;Q9Y4X0;Q9H5X1;Q9BTE7;P59022;Q9NPI8;Q15935;O75920;Q9H6D7;Q8N2G8;Q9NZM5;P12036;O75474;O94973;P0C7X2;Q9NS25;Q9BVC6;Q9UM82;P98182;Q9NYZ3;Q12765;Q9H0U9;Q9UP83;Q9UBL0;Q96NU7;Q9UKZ1;O43290;Q9UKY7;Q68CZ6;Q9BW92;Q5TEC3;O14972;Q9BZF9;Q9H2W6;Q9Y675;P09496;Q8WWM7;Q8N0V3;Q14602;P50221;Q9NWW4;Q5H9L4;Q05084;P41162;P56555;Q8N3J9;P25398;Q5T7W7;Q5T280;Q9H2C0;Q5TD94;Q96NJ6;P23610;Q8N2L5;Q96FN9;Q5F1R6;Q9Y3R5;Q9BZL1;Q9BYS1;Q96AQ7;Q14657;Q9NVX0;Q9H5F2;Q8IZ73;Q96Q35;Q8WYQ3;Q9NY87;Q8WV07;Q9H3K2;Q9UN36;P52746;Q96N20;Q96BZ8;Q86U38;Q9BZD4;Q13495;O95486;Q4VC05;O43583;Q9BVG4;Q2TAL8;Q9Y5R5;Q15937;Q9Y4K1;P10073;Q8WW59;Q14181;O75638;Q92670;O94855;Q9Y592;Q14693;Q8N720}

8851 Pathogen[ P03346] interacts with 287 human partners: {Q5F1R6;Q9Y2A0;Q9UKS7;Q96N20;Q9BT25;Q9H7Z3;Q8WYQ3;Q9Y238;Q96S65;Q01534;Q9H6D7;Q96DF8;O75564;P98182;Q14320;Q15050;Q9BZL1;Q96EL2;Q8N573;Q96A73;Q9NQC8;Q9NY87;Q96NJ6;O95625;O43290;A3KN83;P50221;Q6P2D8;Q9UKY7;Q9UP83;Q9HCS5;Q9ULD5;Q9H0A9;Q96JP2;P23610;Q9BYG8;O60287;Q9H2Z4;Q8NFV4;O14633;Q4VC05;A6NNW6;Q7Z4H7;Q9H305;P57060;P84101;Q9H3K2;Q9UKZ1;Q96Q35;Q9GZW5;Q9UM82;Q2TAL8;P49754;Q9NZM5;P27469;Q969X6;Q9BY42;Q9UBI9;Q9NRG9;Q4L180;O60290;Q5T280;O15225;Q5T7W7;Q9BUK6;Q9Y5M1;Q96BZ8;Q9NSI6;Q8WV07;P43360;P17152;Q0PNE2;Q8NHX4;O95177;O75474;Q9Y6Z2;P62266;Q9BZV1;P49750;P56555;Q9P2F5;Q5TD94;Q06250;Q01850;O95671;Q8WW59;Q9GZL8;O00193;Q9H2C0;Q14129;Q9BXM0;Q96NU7;Q9HCK0;Q9H2W6;Q9NWW4;P0C7X2;Q96BR9;Q15847;Q7RTU5;Q6PI98;Q05084;Q96AQ7;Q92670;Q9Y5R5;O14972;Q9UKJ5;Q9BZE7;Q8IYX8;Q8LWE4;O15194;P09496;Q9UID3;Q9NUA8;Q4V328;Q15059;Q9NZP6;Q9BZE9;P22103;Q6QNY0;Q9UKJ3;Q9NS25;O94855;Q9H5F2;Q9Y592;P98169;Q9HB31;Q7Z794;Q9BQ65;Q9C0H6;Q9Y675;P41162;O43583;Q6UW56;Q9Y421;Q68D10;A6NF36;Q9Y3R5;P12036;Q14153;Q9NQR4;Q9H4I8;Q9NVX0;Q14264;Q13166;Q8WXE0;Q9BVC5;Q9P0V3;P25398;Q9NZH5;Q96JM7;Q9BZQ8;Q9Y4H4;P13985;P52746;Q12894;Q9UBL0;O60826;O95990;Q9UPQ4;Q9H322;O14879;Q8N0V3;Q9BUW7;Q9BZD3;Q6IQ32;Q3SYG4;P62269;Q9NVU7;Q68CZ6;Q9HCM9;Q9BTE7;Q5VYK3;Q9NQ50;Q99619;Q9HD33;Q9Y4P9;P10073;Q9BVG4;Q7Z7K6;O15453;O95411;Q53EQ6;Q9HCN2;Q8WVZ9;Q13495;Q63HK3;Q2M3D2;Q9H0U9;Q13015;O75920;Q9Y5P3;Q9HB96;Q14181;Q13642;Q5SRH9;Q96M91;Q15935;O95486;A5PL33;Q9BVC6;Q8NDF8;Q9UH90;P01358;Q8N720;Q03252;Q8TE68;Q4LE39;Q9Y6Z5;P02728;Q15937;Q9BTY7;Q9NYP3;O75638;Q96CS2;Q04727;Q69YI7;Q9NYZ3;Q8TDN6;Q0VDD7;O43763;Q5VSL9;Q12765;Q9UII5;Q6RFH5;Q15527;Q8NEY3;Q06356;P05813;Q9BZF9;P53801;Q12980;Q92917;Q9BXM8;Q7Z3D6;P59022;Q5H9L4;Q9NPI8;Q13401;Q9Y4K1;O96002;O94927;Q10571;Q9UJY5;Q8NI36;P82664;O60829;Q9BZW7;Q9BYS1;Q9UN36;P43358;Q96FN9;Q8TAU0;Q9NQZ2;Q5JTJ3;Q8WXX7;O76042;Q9NYP9;Q14602;Q6FIF0;O94973;Q99865;Q9Y2B4;Q14C87;P49901;Q8NBR6;Q3SYA9;Q8N3J9;Q14657;P53672;Q5TEC3;P53367;Q9HB07;Q9BZD4;Q99618;Q8IWL3;P53992;O43913;Q00765;Q9H1B7;Q8N2G8;P43359;Q9H9J2;Q14693;Q86V97;Q9Y2Q9;Q8WU76}

8852 Pathogen[ Q85601] interacts with 203 human partners: {Q53EQ6;Q5VYK3;O95625;Q6QNY0;Q63HK3;O43913;Q96S65;Q4LE39;Q9BZL1;Q96EL2;Q96A73;Q8N720;Q13495;Q9NY87;Q9GZW5;Q7Z7K6;P09496;Q9H5F2;Q6P2D8;Q92917;P53672;Q9NUA8;Q8N0V3;Q9ULD5;Q96JP2;Q9UN36;O14879;Q9H6D7;Q9BT25;O95671;P57060;O15194;Q9UKZ1;P12036;O60290;Q969X6;Q9UP83;Q5TD94;Q7Z4H7;Q9Y6Z5;Q9H2W6;P59022;Q9NRG9;Q9BZF9;Q9NWW4;Q5H9L4;Q0VDD7;Q01534;Q9NPI8;P56555;Q12894;Q9BXM0;Q8TDN6;P0C7X2;Q03252;Q13642;Q9UII5;P55145;Q5SRH9;Q9UJJ7;P49754;Q7RTU5;Q96AQ7;P27469;Q9BW92;Q9H6Y2;Q5VSL9;O14972;Q9BZV1;P41162;Q9UJY5;Q9BZE9;Q15059;Q9NZP6;O75474;Q9NS25;Q9BZQ8;Q9UM82;Q9Y592;P52746;Q7Z794;Q6IQ32;Q9Y675;Q9H0A9;Q8NEY3;P43360;Q9H2C0;Q9NQR4;Q9HB96;Q6PI98;Q5T280;Q8WVZ9;Q9H322;Q96N20;Q9NZH5;Q96JM7;Q4L180;Q9UKJ3;Q9UBL0;Q14657;Q8WV07;Q9NYP9;Q0PNE2;Q9UPQ4;Q9BZD4;Q9618;Q04727;Q15050;P98169;A2RTX5;P62269;Q9UKJ5;Q2TAL8;Q96NJ6;Q9NSI6;Q9Y2Q9;Q86V97;Q9Y4K1;Q9NYZ3;Q9NYK5;Q8WWM7;Q2M3D2;Q13015;O94927;O75920;O43290;Q14181;O95486;O94973;Q3SYG4;Q8NDF8;Q6GMV2;Q9HD33;O60287;Q15937;Q9UKY7;O00193;O75638;Q9NZM5;Q96CS2;Q9BUK6;P84101;Q8NBR6;O15453;Q12765;A3KN83;Q9NQ50;Q6RFH5;O60356;O60826;Q01850;Q96Q35;Q9Y5R5;Q92670;P50221;Q9P0V3;Q9Y3R5;Q8IWE4;Q8N3J9;Q8IWL3;Q8N2G8;P82664;Q9BY42;Q9Y421;O94855;Q14129;P43358;Q9H9J2;O76042;P43359;Q9BTE7;Q14602;O43583;Q9H0U9;Q15935;Q9C0H6;O75564;Q14264;Q5TEC3;Q9HB07;Q9UID3;P53992;Q05084;Q68CZ6;P98182;Q9H1B7;P25398;Q9ULQ0;Q96DF8;Q96M91;Q99619;Q96FN9;Q9HCM9;Q8IYX8;P10073;Q9NVU7;P62266;P49750;Q14693;Q5F1R6;Q9BZW7;Q9UH90;Q69YI7;P05813}

8853 Pathogen[ P14079] interacts with 381 human partners: {Q5VV42;Q9H0U9;Q96M91;Q8N6M3;Q5TGZ0;O15442;O15194;A6NF36;Q9GZN8;Q9BZP3;Q9BQ08;Q9BUV8;Q9Y4P9;Q12894;Q8N573;Q8NEY3;Q9H061;Q9UGV2;O76087;Q8N3T6;Q14C87;Q9NQ50;Q96FN9;Q8NEB7;Q9BZL1;Q9GZU0;O15225;P05813;Q9BVC5;Q9BT25;Q9P2X8;P27469;Q9GZL8;Q86V97;Q05084;P17152;Q969X6;Q9NSI6;P02728;O60826;Q9BTE6;Q8NHX4;Q7Z794;Q9BW92;Q86VI1;Q86U38;Q9UID3;P10073;Q14693;Q01534;Q9NZM5;Q6QNY0;Q92917;Q5H9L4;Q24JP5;Q9ULQ0;A3KN83;Q8NBR6;Q9NVU7;Q9UM82;Q8NBQ7;Q9H0A9;Q8N6L1;Q4VC05;Q9UKJ5;Q9HB07;Q9BVC6;O15258;Q15155;Q9NUA8;P43360;P82664;Q9UJY5;O15453;O60290;Q5TEC3;O00193;P56378;Q5T7W7;Q9BY42;Q96NU7;Q02083;Q9BUW7;P13985;Q92564;P43359;Q96DF8;Q92545;Q9Y675;Q6GMV2;Q13166;Q9Y5R5;P52746;Q14696;Q9NPI8;O75564;Q8WYQ3;Q9NYZ3;Q96A73;Q8IWL3;Q63HK3;P12036;P25398;Q9BZE9;Q9UKZ1;Q9NVX0;O43913;Q99932;Q9BUK6;Q9BZD3;Q9BYS1;Q14320;O95990;Q9BZD4;Q14264;Q8NE00;Q12980;Q01804;A2RTX5;Q96N20;Q8N720;O94855;Q9BUB7;Q4LE39;O60287;Q9H305;A6NNW6;Q96C11;Q15059;Q15050;Q15527;P53992;Q6NTE8;Q96CP2;Q9BQ65;Q9Y6Z2;Q9NV29;Q9BZV1;Q8N0V3;Q14129;Q10571;Q9UIG4;Q86YL5;Q8TDN6;Q9H0C3;Q9Y4H4;Q5VYK3;Q8IVB5;P62266;Q9NRQ5;Q3SYA9;Q03252;Q9P0V3;P58511;Q9BTE7;O43290;Q9HCM9;Q96S65;Q9H5X1;Q9Y6Z5;Q8NB25;Q9YJN2;Q9BVV7;Q9BXM8;Q99618;Q5TD94;O95671;Q9Y592;Q5SRH9;Q9Y421;Q9NS71;Q8IZ73;O95156;Q9UJ55;Q6PI98;P55081;P53673;P0C7X2;Q9ULD5;Q9UBL0;Q92670;Q99865;O14633;Q8WVZ9;P27544;Q9P0I2;Q9H790;Q13642;Q96Q35;Q8IUX1;Q9BXM0;P22103;Q9H7Z3;Q9H2C0;Q14657;Q14DG7;P30408;Q13066;Q9UBI9;Q9Y238;Q5T6V5;Q9BVG4;Q0VDD7;Q9UEE9;Q9Y6Z4;Q96AQ7;Q9UH90;Q9NQA3;Q9H2W6;Q9Y5P3;Q53FP2;Q8IYQ7;P55808;P84101;Q9NQZ2;O60829;P48681;Q9H1B7;Q96JM7;Q96J86;O95177;Q9UKJ3;Q8N2G8;Q9NY87;Q9NYP8;Q9JTB3;Q9Y2Q9;Q8WV07;Q8N1H7;Q9NP67;Q9NP3;Q9H6D7;Q9NWP3;Q8WWM7;Q15847;Q9Y4X0;O43583;Q5JTJ3;Q14153;Q8N1D0;Q9Y5U8;Q9NS25;Q2TAL8;Q8TCU4;O96002;Q68D10;Q9NYP9;Q4KMQ1;Q9NRT5;Q14181;Q12765;O94973;P98169;P59022;P01358;Q8N3J9;Q9NUM4;A4D263;Q9H9J2;Q9UKR5;O75920;Q9GZW5;P23610;Q01850;Q9H3K

2;P43358;Q9H0A9;P49750;P30039;Q9BZF9;Q9BTY7;A5D6W6;Q9UJJ7;P60602;P10163;Q5T011;Q9UKY7;Q9UII5;Q9C0H6;P59020;Q4V328;Q14602;Q9NZV5;Q5T750;Q96AN5;Q9H5F2;Q9HB96;Q9HD33;Q9HBU9;P41162;Q8WXX7;O14972;Q7Z4H7;Q9NQC8;P53672;O75204;A5PL33;Q15011;Q9Y2A0;Q9Y2B4;Q6NVU6;Q9BT25;Q5VSL9;Q9HCN2;Q5SRD1;Q00765;O60356;O75638;Q68CZ6;Q69YI7;P49754;Q9Y4K1;Q0PNE2;Q6IQ32;P98182;Q3SYG4;Q9H478;O95486;Q9Y3R5;Q9P2F5;Q5F1R6;P53801;Q96AQ2;O95411;Q13015;P57060;Q8NFP0;O75474;Q9UNP3;P56555;Q9NYK5;Q15935;P62269;Q8IYX8;O14879;Q9Y2M6;O76042;Q9BZQ8;Q53S33;Q9H6K1;Q9NRG9;O14523;P10075;O95625;Q60250;P04280;Q9NQR4;Q9Y531;Q96EL2;Q9BZW4;Q04727;Q9NZH5;Q12893;Q8IXM6;P02729;Q99619;Q9NWX4;P09496;P50221;O14524;Q2M3D2;Q96NJ6;O94927;Q7Z7K6;P49901;Q9BYG8;Q13296;Q8WXG1;P40305;Q9NUG4;Q53EQ6;Q9H322;Q5T280;Q5T5P2;Q86TL2;Q8IWE4;P43362;Q13495;Q96CS2;Q9BZW7}

8854 Pathogen[ P03383] interacts with 255 human

partners: {Q0VDD7;Q5VSL9;O14879;O76087;P62266;P43359;Q15935;Q6QNY0;O75920;Q9H7Z3;P84101;Q63HK3;Q96S65;Q8NBR6;Q9BZE7;O95625;Q96EL2;Q12894;Q9Y6Z5;Q9BYG8;A6NNW6;Q9GZW5;P25398;P27469;Q9UP83;O60287;P82664;Q14129;Q13166;O43290;Q96M91;Q15937;P02728;Q9NVX0;Q4VC05;Q9Y5R5;Q9Y675;Q9GZN8;Q04727;Q14181;Q92670;Q9ULQ0;Q3SYA9;P12036;Q9H6Y2;Q5VYK3;Q96BZ8;Q9BZL1;Q96A73;O60290;Q7Z4H7;Q9H2W6;Q8N0V3;Q9BQ65;O14972;Q9BZF9;Q5SRH9;A3KN83;Q8NEY3;Q5H9L4;Q8N3J9;O95177;Q9NYP9;O75474;Q96AQ7;Q0PNE2;Q9BZV1;Q9ULD5;Q9BZE9;Q8WWM7;Q9P2F5;Q9BZW7;O00193;Q06250;Q5TD94;Q9BXM0;Q9NS25;Q8NDF8;Q9NZM5;O95486;Q01850;Q96N20;Q9GZL8;O75638;O60826;Q9H2C0;Q9UNP3;Q9NWX4;Q9Y592;P0C7X2;Q7Z7K6;P49754;Q15847;Q15050;Q7RTU5;Q969X6;Q9Y2A0;Q6PI98;Q9BXM8;P41162;Q9BTY7;Q4V328;P49750;Q6IQ32;Q8IWE4;Q9NZP6;O96002;Q96618;O43913;Q9UKJ3;P01358;P13985;Q9BZQ8;Q9Y6Z2;Q13495;P52746;P43360;Q5084;Q9H0A9;Q14C87;Q96CS2;Q8NHX4;O94927;Q9Y3R5;Q9BVC6;Q9Y2Q9;Q9Y4K1;Q53EQ6;Q96FN9;Q8WVZ9;Q13015;Q9NZH5;Q96JM7;Q5JTT3;O94855;Q9UJY5;Q7Z794;Q13066;Q12765;P53672;P43358;Q9Y5M1;Q9H322;Q9BZD4;P49901;Q9BUW7;Q14696;Q9HD33;A2RTX5;P55145;A5PL33;Q14657;A6NF36;P62269;Q68CZ6;Q9H0A9;Q9NY87;O95411;Q9NSI6;P53801;Q9Y5P3;Q86V97;Q9BT25;Q68D10;Q9NYZ3;Q2TAL8;P10073;Q9HB07;Q9BVG4;O15453;Q9HCN2;Q9UKY7;Q8IWL3;Q9H0U9;Q12980;Q9Y4H4;Q9HB96;P57677;O60829;Q9NQR4;Q14264;Q3SYG4;P17152;O76042;Q8WYQ3;Q9UKJ5;O14633;Q4LE39;Q5T280;Q96Q35;Q14153;A4D263;Q5TEC3;Q9NYP3;Q15059;P56555;Q9BVC5;Q9NRG9;Q96NJ6;Q15527;Q03252;Q9P0V3;Q9H9J2;Q9UII5;P22103;P53992;Q9NQ50;Q99865;O43583;O95671;Q14602;Q9UKZ1;Q53S33;Q9H6D7;Q96DF8;P50221;Q9H1B7;Q01534;Q8NFP0;P23610;Q9BY42;Q9BYS1;Q13642;Q9NYP8;Q8TDN6;Q9UM82;O15225;Q9BTE7;Q9Y4P9;Q8N720;O94973;Q2M3D2;Q9Y421;P05813;Q9NPI8;Q8WXX7;O75564;P59022;Q92917;Q9H0A0;O95990;P57060;Q9UBL0;P98182;Q5T6V5;Q99619;Q9NVU7;Q9UBI9;Q14693;Q8WV07;Q9BW92;O60356;Q9H5F2;Q69YI7}

8855 Pathogen[ P03410] interacts with 378 human

partners: {P30039;O60287;Q2M3D2;P49750;Q0PNE2;Q9BVC5;Q9Y2Q9;P09496;Q92917;Q5SRD1;A6NF36;Q9H305;Q9NZM5;Q9HB07;Q8IZ73;Q9H6K1;Q9BZE9;Q92564;Q9H0C3;Q9UBL0;Q9HD33;A4D263;Q9Y6Z5;Q8NEB7;Q12893;Q9BUB7;Q9BTE7;P49901;Q9Y675;Q9NZH5;Q14129;A5D6W6;O75638;Q8WUX2;Q13296;P59022;Q3SYA9;Q9C0H6;Q14C87;Q9BZL1;Q4VC05;Q8WXX7;Q9HCM9;P12036;Q9BTE6;Q15050;Q9H6D7;P41162;Q9H0U9;Q6PI98;Q13495;Q8N6L1;P98169;Q9UP83;Q9WYQ3;Q6PJE2;Q9BVC6;O95990;P02729;O96002;Q14181;Q96M91;Q99618;Q9Y4P9;Q02083;Q9BXM0;Q8IWE4;O76087;Q9GZL8;P98182;Q86TL2;O94855;Q96CP2;Q8NFP0;Q15527;Q9UJY5;Q13015;Q96C11;P56378;O76042;Q92670;Q9BZD3;Q4L180;P53992;Q9BUW7;Q8N7X4;Q9UII5;Q14264;Q8WV07;Q3SYG4;P10073;Q9BW92;Q6QNY0;Q9NQZ2;Q10571;Q12765;Q69YN2;Q9H0A0;A3KN83;Q96AQ7;P50221;Q14153;Q8N3J9;Q9BVG4;Q9Y2B4;Q9P0V3;Q5T6V5;Q69YI7;Q9BZP3;Q9P2F5;Q9BZE7;Q5VSL9;P57060;P53367;O75474;Q9BY42;Q5T750;Q8WVZ9;Q9UPQ4;Q53EQ6;Q9UBI9;P13985;P62269;Q92545;P23610;Q5VYK3;Q01534;Q5TD94;Q14657;Q9NYP9;Q9H5X1;Q15847;Q9H478;P43359;Q9P2X8;P58511;Q9BUV8;Q8TCU4;Q9NYP8;Q86V97;Q8N720;P62266;Q9UEE9;Q7Z794;Q8TDN6;Q0VDD7;O43583;Q96J86;Q96AN5;O15225;P27544;Q12980;Q9NYZ3;Q24JP5;Q99865;Q5F1R6;Q9BTD3;Q9NYK5;Q6GMV2;Q15059;O14972;Q96NU7;Q14DG7;Q8WWM7;Q5JTT3;O00193;Q9H322;Q4LE39;Q8IYX8;Q9H9J2;Q9Y4X0;Q05084;P02812;Q68CZ6;Q9UJY5;Q9NS71;Q96CS2;P52746;Q6P2D8;O15258;Q8WXG1;Q8N6M3;O60826;Q8WU76;Q5TEC3;Q9UJJ7;Q14693;Q9BZV1;Q9Y5P3;Q7Z7K6;Q9Y5P3;Q7Z7K6;Q9Y592;Q6RFH5;Q9Y5M1;Q9ULD5;Q5SRH9;Q9H790;O95158;Q9Y4H4;Q9BUK6;Q9NS25;Q5T7W7;Q5H9L4;Q9Y6Z4;A5PL33;P25398;Q9NQR4;Q6IQ32;Q99619;Q9UM82;O14523;Q9UNP3;Q96JM7;Q68D10;P43362;Q5T280;Q9BXM8;Q9NV29;Q9NPI8;Q03252;P27469;Q9UKZ1;Q9NWX4;Q96BZ8;P60602;O14633;P56555;Q8IWL3;Q0727;Q9BZD4;Q9UKJ5;Q13066;Q9NVU7;P02728;Q9H1B7;P84101;Q9NQ50;Q14320;Q9NB96;Q9H87;P43365;P49754;Q9ULQ0;Q13642;Q9Y5U8;Q8N3T6;O94927;Q9H7Z3;Q00765;Q9Y334;Q9BZW7;Q9UKY7;P05813;Q9Y4K1;O95625;Q96CN7;Q9NYP3;Q96EL2;Q9NSI6;Q7Z3D6;Q9BTY7;Q9Y6Z2;Q9BYG8;Q9BZF9;Q9H0A9;O75920;O95671;Q8NBR6;Q99932;P01358;O95411;Q5J5C9;Q9GZN8;Q9H2C0;P10163;Q7RTU5;Q15011;Q9H2W6;P43360;Q9NUG4;Q8N1D0;O15442;O15453;Q96DF8;Q96Q35;Q63HK3;Q9BZQ8;Q9H3K2;Q15937;Q96AQ2;P17152;Q9NQC8;Q6NVU6;Q86VI1;Q8NE00;Q9P0I2;P43358;Q9BQ65;O75564;P55808;O14524;Q14696;O60829;Q96N20;O43290;O14879;Q86YL5;Q96JP2;Q9BYS1;A2RTX5;Q4V328;Q9Y238;Q2TAL8;Q01850;Q9H5F2;Q9Y2A0;O43913;Q8N0V3;Q8IXU6;Q9GZU0;P40305;P10075;Q13166;P0C7X2;A6NNW6;Q8IXM6;Q9NRG9;Q9BZW4;Q8WW59;Q9UKJ3;Q9NRT5;Q86U38;Q9BT25;Q9NQA3;O94973;Q9Y421;Q969X6;O95177;P04280;Q9UID3;Q96A73;Q8N573;P22103;Q9NUA8;Q7Z4H7;Q5T5P2;O60290;Q9GZW5;Q9NZP6;O15194;Q8NB25;Q9H6Y2;P53672;Q96FN9;Q9NRQ5;O95156;Q12894;Q9HBU9;Q53S33;Q9BQ08;Q4KMQ1;Q96NJ6;Q9NZV5;Q15935;P53801}

8856 Pathogen[ P14075] interacts with 306 human

partners: {Q04727;P53673;Q9P0V3;Q92545;Q15059;Q3SYG4;P84101;Q9HB96;Q96S65;P53801;Q14129;O75564;Q14602;Q96EL2;P59022;Q99932;Q9NQR4;Q9BVC6;Q14264;Q9NYK5;Q01850;P09496;Q8WV07;Q8NEY3;Q9UKJ3;Q9H322;Q9NRQ5;Q9Y5R5;Q9H2C0;Q99865;P0C7X2;Q8N0V3;Q9H0A9;Q9Y2Q9;O94973;Q13495;Q5T6V5;Q96NJ6;Q96J86;P01358;Q8NDF8;Q9BVC5;Q4LE39;Q13166;Q9UM82;Q7Z4H7;Q9BZD3;Q9NYP3;Q9UKZ1;Q13296;Q96BZ8;Q5TD94;Q99619;Q10571;Q9GZW5;Q9P2X8;Q15937;Q9BXM0;Q9BY42;Q02083;O96002;Q9Y6Z5;P53672;O76087;Q2M3D2;Q14C87;Q9NSI6;Q5T750;Q68D10;Q9Y6Z4;O95177;P13985;Q96M91;Q8N6L1;Q9NPI8;Q5JTT3;Q14153;Q9NQP8;P05813;Q92917;Q68CZ6;Q13015;Q9NRT5;O95625;Q14320;Q9HD33;P49750;Q9Y4K1;Q53EQ6;Q9Y2A0;Q96FN9;Q5SRH9;O15453;Q9BVG4;P04280;P02728;Q9H2W6;Q9P2X3;A3KN83;Q7RTU5;Q12980;Q9H9J2;Q9ULQ0;Q86TL2;Q9H6Y2;P53992;P25398}

;Q4V328;Q9NVU7;Q9NZP6;P43358;Q9BT25;Q13642;Q9H0A0;A6NF36;Q96AQ2;O75638;Q9UBI9;P43359;Q9H478;P22103;Q86V97;Q9HCN2;Q96AQ7;Q9Y2B4;Q9HCM9;Q9Y5P3;Q9ULD5;O15225;O43583;P41162;Q15847;P17152;Q9H6K1;A5PL33;Q9Y238;Q3SYA9;Q5TEC3;P12036;P56378;Q9BTE6;O75920;Q92670;P60602;Q9UP83;P49754;Q5VSL9;O60287;Q2TAL8;Q9NZH5;Q96JM7;Q9BZQ8;Q96DF8;P52746;P50221;Q9HB07;Q12066;Q6PI98;Q8N3J9;O95990;P82664;Q9BQ65;Q9BZP3;Q9BUW7;O14523;A2RTX5;Q9H7Z3;Q9BYG8;P2269;Q9BW92;Q14696;Q9Y421;Q96C11;O95671;Q9NYP9;Q9H5F2;Q9NS25;Q9BTD3;Q9NZM5;Q8WYQ3;Q5T7W7;Q14657;Q9UN36;Q9NQ50;Q96Q35;A6NNW6;Q9BZL1;P57060;Q8NDX9;Q9UJ7;P56555;Q8IXM6;O75474;Q969X6;Q6QNY0;Q96CS2;Q9Y4P9;O60290;Q01534;Q8WVZ9;O15442;Q9NWW4;Q9P2F5;O60356;Q9UIG4;Q9Y5M1;Q9H0U9;P62266;Q9GZL8;Q8NBR6;Q6IQ32;Q15935;Q9NV29;Q9Y3R5;O43913;Q5H9L4;O60826;Q6NVU6;O14879;Q8WWM7;Q7Z7K6;P02812;Q96A73;Q9BZE7;Q9UEE9;Q05084;Q9UKY7;A4D263;P98182;P58511;Q9NVX0;Q96N20;Q9BTY7;Q69Y17;Q8N6M3;Q4VC05;Q9BZF9;Q15011;O94927;P27469;Q9BZV1;Q99618;Q8N720;Q15050;Q9NYZ3;P23610;Q9BUB7;Q9BYS1;Q8TDN6;Q14181;Q9Y592;O43290;Q9UII5;Q8WXX7;Q9H1B7;Q9BTE7;O14633;Q9BXM8;P49901;P43360;Q9NRG9;Q12765;Q9UKJ5;Q9GZU0;Q9H6D7;Q63HK3;O95486;O14972;Q8IWL3;Q53S33;Q9Y4H4;Q0VDD7;O60829;Q9BZD4;P10073;O95411;Q96NU7;Q5T280;Q9UBL0;Q0PNE2;Q9UJY5;Q15527;O00193;Q9GZN8;Q03252;Q4KMQ1;Q9BZE9;Q9NY87;P55808;Q5VYK3;Q6GMV2;Q14693;Q9Y675;Q9Y5U8}

8857 Pathogen[ P0C206] interacts with 345 human

partners: {Q9NUA8;Q4L180;Q8N720;Q9NY87;O60829;Q9NQC8;Q9Y5M1;Q9NPI8;Q9BZQ8;Q14320;Q8N0V3;O96002;O95081;Q2M3D2;Q8NB25;Q14657;Q9GZW5;Q9NZH5;Q96JM7;Q9Y4H4;Q63HK3;P01358;Q99865;Q0VDD7;Q94973;P40305;Q96S65;Q8IXM6;Q9H790;Q9H305;P98182;Q9Y2A0;Q9GZL8;Q9NRG9;Q96EL2;Q9NSI6;Q9NZM5;Q9NS25;Q86U38;P43358;Q9UII5;O75474;Q9Y5U8;Q5TD94;Q13642;Q5VSL9;Q9BVC5;Q9P2X8;O14524;O94855;Q3SYG4;Q9H5F2;Q9NVU7;Q9UJ55;P57060;Q5F1R6;O15258;Q8N2G8;O75638;O43913;P49901;Q8TCU4;Q9BQ65;Q9BTE7;P62266;Q9HB96;P49754;A5D6W6;Q8NBR6;Q9C0H6;O60826;Q99619;Q9UEE9;Q14602;Q9BUB6;Q6PI98;Q8NFP0;P50221;A2RTX5;Q9Y4K1;Q8WXX7;Q9UH90;Q9BZP3;O00193;Q9Y6Z5;Q96A73;O14879;Q99618;Q9BT25;Q3SYA9;P10073;Q9NYP9;P53673;Q53EQ6;Q6UW56;Q9BUB7;Q04727;Q92670;Q9BZD4;Q8IWE4;Q9BZE7;Q9H6Y2;Q9Y6Z4;P56555;P43360;Q7Z794;Q96Q35;Q13066;Q9UKJ5;O95671;Q9UBL0;Q9HB07;Q9BZW7;Q9Y592;Q5JTJ3;A6NNW6;Q9Y3R5;Q86YL5;Q96BZ8;Q15050;P43359;Q8TDN6;Q8IZ73;Q4VC05;Q9H6K1;O14633;P55145;Q03252;Q8N3J9;Q9BZE9;P53801;Q7Z3D6;P02728;Q13495;P09496;Q9UKJ3;Q5SRD1;P10075;Q9Y4X0;Q9HD33;O43290;Q9NVX0;Q9UJ7;Q01534;P22103;Q95920;A5PL33;Q9Y421;Q9Y675;A4D263;P23610;O60356;Q9H3K2;Q9H0A9;P43362;Q9UM82;Q9BTY7;P82664;Q9UPQ4;P12036;Q96N20;Q13166;Q8WV07;P41162;Q8N6M3;Q96DF8;Q5T280;Q5T7W7;P05813;Q9Y4P9;Q8WV59;Q2TAL8;Q9UP83;Q13296;O76087;Q9H4I8;Q8WYQ3;Q92917;Q9BUV8;O14972;O75564;Q12980;O95486;Q969X6;Q9BZV1;Q6RFH5;O95990;Q9H322;Q9BZL1;Q14181;Q13015;Q92564;Q9BVC6;Q96BR9;Q9RTU5;Q8WVZ9;Q9BTE6;Q5TEC3;Q6IQ32;Q15011;Q9UJY5;Q96JP2;Q4LE39;Q8IYX8;Q9Y5R5;Q86V11;Q9NQR4;O15225;Q0PNE2;Q7Z7K6;Q8NDF8;P59022;Q9H7Z3;P30039;Q96CS2;Q8N1D0;Q8WU76;Q5H9L4;Q9BW92;Q7Z4H7;Q02083;Q5T6V5;Q96AQ7;Q9HCN2;P17152;O94927;P49750;Q9P2F5;Q9BXM0;Q12893;Q15937;Q9UKZ1;Q12765;O15453;Q9NYP8;Q9H0U9;O60287;Q9ULD5;Q9Y5P3;O95411;Q9H2W6;Q5VYK3;Q14264;Q9BUW7;Q96C11;Q9BVG4;Q9UID3;Q9BYS1;Q96M91;Q01850;Q9P0V3;Q9HCM9;Q9P2D8;Q9BY42;P53672;Q9H6D7;Q9Y2Q9;Q96NJ6;P0C7X2;P98169;Q9BYG8;Q5T5P2;Q9ULQ0;Q15059;Q96GZ8;Q9Y2B4;Q96FN9;Q9NQ50;Q14129;O95625;P27469;Q8N573;Q8NEY3;Q00765;Q4V328;Q4KMQ1;Q8WUX2;Q15847;Q9H9J2;P84101;Q53S33;Q9NZP6;O15194;Q99932;Q9UN36;P52746;Q14696;Q8IWL3;O43583;Q5SRH9;Q9NYK5;P53992;Q6QNY0;Q9NYZ3;P62269;A6NF36;Q9BZF9;Q8TAU0;Q8NHX4;Q06250;Q8WWM7;Q9NQZ2;Q9P2X3;Q9H1B7;O95177;Q8WXG1;A3KN83;Q9BXM8;Q14693;Q9UBI9;P25398;Q96CP2;Q14153;Q15935;Q14DG7;Q5T750;Q68CZ6;Q14C87;Q68D10;O43763;O15442;Q9NYP3;P60602;Q9Y6Z2;Q9H5X1;Q9H2C0;Q9H0A0;Q9BZD3;Q69YI7;P13985;Q05084;O76042;Q9UKY7;Q9NWW4;Q9HCK0;Q10571;O60290;Q6GMV2;Q9Y238;Q9NRT5;Q96NU7;Q86V97;Q12894;Q15527;Q01804}

8858 Pathogen[ P03363] interacts with 277 human

partners: {P49754;O95990;O60829;Q9UID3;Q9H7Z3;Q9BZD4;Q5T5P2;Q9NZH5;Q96JM7;Q01850;P43360;Q9Y592;O75638;Q92917;Q96AQ7;Q9NYP9;Q14264;Q7Z7K6;Q96S65;Q9BXM0;Q9NYP3;Q0VDD7;Q96DF8;P53801;P82664;Q15050;O60356;Q96EL2;O75474;P10265;Q9NUA8;Q8WXX7;Q8N0V3;O95411;Q9P0V3;Q969X6;P98169;A2RTX5;Q9UP83;Q02083;Q9Y4H4;Q9NY87;Q9BZQ8;Q4VC05;Q9H5F2;Q69YI7;Q8N3J9;Q6P2D8;Q9Y3R5;Q96NJ6;Q14657;P53672;P02728;Q9GZL8;P23610;O43763;Q9NVU7;Q8N720;Q9UBI9;Q6UW56;Q96JP2;Q8TE68;P59022;Q9BYG8;Q9HC35;Q9Y2Q9;Q53EQ6;Q9UN36;Q10571;Q9H6D7;Q9Y5M1;Q14C87;Q2M3D2;Q9BT25;O95671;Q4LE39;Q8N2G8;Q13015;Q8WU76;Q5F1R6;Q9H9J2;Q9Y5P3;P57060;Q9BXM8;Q9Y4P9;Q14181;Q9HCK0;Q9UKZ1;Q9NQ50;O95486;Q5TD94;Q9H322;Q96N20;O00193;Q9NWW4;Q04727;O14879;Q9GZW5;P01358;Q9UGV2;O94973;Q9BTE7;Q9HD33;Q9HCS5;Q9HCN2;P50221;O75920;Q13495;A4D263;Q9BZF9;Q03252;O60287;A6NF36;P43358;Q9H305;Q15937;Q9NRG9;Q9H0U9;Q06250;Q3SYA9;A3KN83;Q14602;P22103;A6NNW6;Q4L180;Q9H4I8;P84101;Q68CZ6;Q68D10;Q9NSI6;Q9BZD3;O94927;Q9ULD5;O96002;Q3SYG4;Q9BZP3;Q96BZ8;Q8WV59;Q12894;Q9BTE6;Q8NEY3;O15453;O60826;Q9Y5R5;Q8NDF8;Q5VSL9;Q9H2W6;Q9NVX0;Q9UH90;Q9BZV1;O14633;Q14320;Q63HK3;Q05084;Q15847;Q9Y4K1;P49750;Q9Y6Z5;Q99619;O75564;Q9H2Z4;Q8NBR6;O43290;Q9NYZ3;P13985;Q96PQ7;Q9UM82;P25398;Q9BZE9;Q96CS2;Q9HB31;Q9Y2A0;Q9BQ65;Q8WVZ9;Q8IWL3;Q14129;Q9BTY7;Q99618;Q9C0H6;Q9H1B7;Q86V97;Q6FIF0;Q96M91;Q0PNE2;Q5T280;Q01534;Q9BUW7;Q7RTU5;Q9BYS1;Q92670;P27469;Q9BW92;P98182;Q9UBL0;O76042;Q8WV07;Q9HCM9;O43583;P41162;Q9UKJ5;Q9H0A9;Q8IYX8;P62266;Q6IQ32;P53992;Q13642;Q9BZW7;Q9H3K2;Q9BY42;Q9BZL1;Q5T7W7;Q15059;Q9HB96;Q9NZP6;Q9UKY7;Q9Y6Z2;O14972;Q12765;Q9NS25;Q2TAL8;Q9NPI8;Q5TEC3;Q9UKJ3;Q9HB07;Q96FN9;Q8WXE0;Q8TAU0;P12036;Q9H6Y2;O60290;Q9H2C0;Q9Y238;P0C7X2;Q15935;O15225;P43359;Q12980;Q96BR9;O95625;P49901;Q9UJY5;Q7Z794;Q9Y2B4;Q7Z4H7;Q00765;Q9Y675;Q9BVG4;Q15527;Q99865;Q5H9L4;P56555;Q9BZE7;Q6RFH5;Q6QNY0;Q96A73;Q5SRH9;Q9ULQ0;Q9BVC5;P52746;Q9UII5;O94855;Q14153;Q9NQR4;Q9NQC8;Q5VYK3;A5PL33;Q9NZM5;P10073;P62269;Q9Y421;Q13166;Q8TDN6;Q13401;Q6PI98;O43913;Q96Q35;P05813}

8859 [Cluster 806]GO:0050699+F molecular\_function [name] WW domain binding [def]  
"Interacting selectively and non-covalently with a WW domain of a protein, a small module composed of 40 amino acids and plays a role in mediating protein-protein interactions via proline-rich regions." [PMID

8860 Pathogen[ Q2Q067] interacts with 7 human

8861 partners:{Q9UHQ7;P30307;Q99732;Q96Q89;Q16621;Q6ICG8;Q9Y2W2}  
Pathogen[ P0C214] interacts with 9 human

8862 partners:{Q9Y2W2;P30307;Q9UHQ7;Q16621;Q6ICG8;Q99732;Q96Q89;Q9NV92;Q15038}  
Pathogen[ P03346] interacts with 11 human

8863 partners:{Q16621;Q96G27;Q15038;Q6ICG8;Q9NV92;Q9UHQ7;Q96Q89;Q9BUZ4;Q9Y2W2;P30307;Q99732}  
Pathogen[ Q85601] interacts with 8 human

8864 partners:{Q9Y2W2;Q15038;Q16621;Q6ICG8;Q96Q89;P30307;Q9UHQ7;Q99732}  
Pathogen[ P14079] interacts with 14 human

8865 partners:{Q15038;P30307;Q9Y2W2;P81408;Q96G27;Q9BUZ4;Q9UHQ7;Q8N114;Q99732;Q96Q89;Q16621;Q6ICG8;Q9NV92;Q969W9}  
Pathogen[ P03383] interacts with 9 human

8866 partners:{P30307;Q96G27;Q15038;Q9Y2W2;Q16621;Q99732;Q9UHQ7;Q96Q89;Q6ICG8}  
Pathogen[ P03410] interacts with 13 human

8867 partners:{Q96Q89;Q969W9;Q15038;Q99732;Q6ICG8;Q8N114;Q9NV92;P81408;Q9Y2W2;Q96G27;Q16621;Q9UHQ7;P30307}  
Pathogen[ P14075] interacts with 11 human

8868 partners:{Q9UHQ7;Q6ICG8;Q9Y2W2;Q15038;Q99732;Q9NV92;Q16621;Q96G27;Q96Q89;P30307;P81408}  
Pathogen[ P0C206] interacts with 11 human

8869 partners:{Q96Q89;P30307;Q9UHQ7;Q9NV92;Q15038;Q96G27;Q6ICG8;Q9BUZ4;Q16621;Q9Y2W2;Q99732}  
Pathogen[ P03363] interacts with 10 human

8870 partners:{Q9Y2W2;Q16621;Q99732;Q9UHQ7;Q6ICG8;Q96G27;Q96Q89;Q9BUZ4;P30307;Q15038}  
[Cluster 807]GO:0018024+F molecular\_function [name] histone-lysine N-methyltransferase activity [def] "Catalysis of the reaction

8871 Pathogen[ Q2Q067] interacts with 15 human  
partners:{O43463;Q8IZD2;Q15910;Q9NR48;Q92800;O14686;Q9NRG4;Q15047;O00255;Q86Y97;Q8TEK3;Q9H5I1;Q86TU7;O96028;Q8WTS6}

8872 Pathogen[ P0C214] interacts with 16 human  
partners:{Q9H5I1;Q15047;Q15910;O43463;Q86TU7;Q86Y97;Q9NR48;Q8WTS6;Q9NQR1;Q92800;Q9NRG4;O00255;Q9NQV7;Q8IZD2;Q8TEK3;O96028}

8873 Pathogen[ P03346] interacts with 19 human  
partners:{Q9NQV7;Q92800;Q86Y97;Q9NQR1;Q8TEK3;Q9BYW2;O43463;Q9NRG4;O00255;Q8WTS6;O14686;Q15910;Q15047;Q13029;Q9NR48;Q9H5I1;Q8IZD2;O96028;Q86TU7}

8874 Pathogen[ Q85601] interacts with 17 human  
partners:{Q9H5I1;Q9NQV7;Q9NQR1;Q9NR48;Q86TU7;O14686;O43463;Q8WTS6;O00255;Q8TEK3;Q86Y97;Q15910;Q9NRG4;Q15047;Q92800;Q8IZD2;O96028}

8875 Pathogen[ P14079] interacts with 12 human  
partners:{Q15047;Q9NRG4;Q86TU7;Q92800;Q9H5I1;Q8TEK3;Q9NQR1;Q9NQV7;Q15910;O00255;Q86Y97;Q8WTS6}

8876 Pathogen[ P03383] interacts with 12 human  
partners:{Q15047;Q9NRG4;O43463;Q86Y97;Q86TU7;Q8WTS6;O00255;Q15910;Q8TEK3;Q9H5I1;Q9NQR1;Q92800}

8877 Pathogen[ P03410] interacts with 13 human  
partners:{Q15047;Q86Y97;Q8TEK3;Q8WTS6;Q92800;Q9NQV7;Q9NQR1;Q9H5I1;Q15910;O43463;O00255;Q86TU7;Q9NRG4}

8878 Pathogen[ P14075] interacts with 12 human  
partners:{Q86TU7;Q15047;Q9NQR1;Q15910;Q92800;O00255;Q9H5I1;Q8TEK3;Q86Y97;O43463;Q9NRG4;Q8WTS6}

8879 Pathogen[ P0C206] interacts with 19 human  
partners:{Q9NRG4;O00255;Q9H7B4;O43463;Q86TU7;Q92800;Q9NQX0;O14686;Q15910;Q9NQV7;Q86Y97;Q9NR48;Q9NQR1;O96028;Q8WTS6;Q9H5I1;Q8TEK3;Q15047;Q8IZD2}

8880 Pathogen[ P03363] interacts with 15 human  
partners:{Q9H5I1;Q15910;Q8TEK3;O15047;Q9NRG4;Q9UPS6;Q9NR48;O96028;O43463;Q9NQR1;Q8WTS6;Q92800;Q15047;Q86Y97;O14686}

8881 [Cluster 808]GO:0016811+F molecular\_function [name] hydrolase activity, acting on carbon-nitrogen (but not peptide) bonds, in linear amides [def] "Catalysis of the hydrolysis of any non-peptide carbon-nitrogen bond in a linear amide." [GOC

8882 Pathogen[ Q2Q067] interacts with 3 human partners:{Q8IXJ6;Q96HA8;Q9NTG7}

8883 Pathogen[ P0C214] interacts with 3 human partners:{Q9NTG7;Q8IXJ6;Q96HA8}

8884 Pathogen[ P03346] interacts with 4 human partners:{Q8IXJ6;P45381;Q96HA8;Q9NTG7}

8885 Pathogen[ Q85601] interacts with 3 human partners:{Q8IXJ6;Q96HA8;Q9NTG7}

8886 Pathogen[ P14079] interacts with 6 human  
partners:{Q96HA8;Q96HD9;O00519;P45381;Q8IXJ6;Q9NTG7}

8887 Pathogen[ P03383] interacts with 2 human partners:{Q9NTG7;Q96HA8}

8888 Pathogen[ P03410] interacts with 5 human  
partners:{Q8IXJ6;Q96HD9;O00519;Q9NTG7;P45381}

8889 Pathogen[ P14075] interacts with 2 human partners:{Q96HA8;Q9NTG7}

8890 Pathogen[ P0C206] interacts with 4 human partners:{Q96HA8;P45381;Q8IXJ6;Q9NTG7}

8891 Pathogen[ P03363] interacts with 2 human partners:{Q96HA8;Q9NTG7}

8892 [Cluster 809]GO:0046983+F molecular\_function [name] protein dimerization activity [def] "The formation of a protein dimer, a macromolecular structure consists of two noncovalently associated identical or nonidentical subunits." [ISBN

8893 Pathogen[ Q2Q067] interacts with 119 human  
partners:{Q13562;Q9NQG7;Q9UKI9;P27540;P17544;P01100;Q16236;Q99583;Q10587;Q9HBZ2;P0419



- 8;P15884;O75340;Q99081;Q9Y2D1;Q6XD76;Q8WYA1;Q9UMX3;P40763;Q08209;P01106;O14503;Q9NR55;Q15596;Q01664;P18847;P49716;Q9BW11;Q9NQ87;P13349;O96004;Q9UL49;O96006;Q02930;P12980;Q05195;Q14814;P18850;Q6R2W3;P36956;A6NFD8;P41134;P19387;Q16520;Q15542;Q92754;P35638;Q16534;Q8N1L9;P67775;P17676;Q9Y4Z2;Q8NDY6;Q7RTU5;Q96RJ6;Q9NZC7;P11831;P15172;Q9NS37;Q9Y4A8;Q15744;Q9Y297;Q99743;O14867;P19532;Q8TEM1;O14948;P12525;Q9Y2N7;Q9HAP2;Q68CJ9;P15408;P86452;Q8WVJ9;P35869;Q16621;O75030;P61244;Q02080;P12524;Q8NFJ8;Q9NQ33;P19838;P20823;P17861;Q7RTU4;Q9Y543;P15336;Q9BYV9;P22415;Q5SVZ6;P19484;O60290;Q9Y5J3;Q7RTU0;P47928;Q9NP71;O60682;Q8WYK2;Q14582;P18848;Q5TGS1;P41250;Q15853;Q02577;Q03060;P15923;P15407;Q99814;Q16649;Q0VG99;O75132;Q7RTU3;P23409;Q02078;P53567;P49715;O15160;Q10586}
- 8894 Pathogen[ P0C214] interacts with 109 human  
partners: {P41250;Q9NQG7;P53567;P18850;Q9BW11;Q05195;Q9NS37;P61244;Q02930;P35869;Q9Y4A8;Q6R2W3;P19838;P15336;Q5SVZ6;P15407;P19484;Q99081;Q8TEM1;Q7RTU4;P15884;P13349;Q02080;Q8NDY6;Q16621;P01100;Q9NR55;P17275;Q99743;Q9Y5J3;P15408;Q8NFJ8;P15172;P17544;P11831;Q16520;Q68CJ9;Q9UKI9;O75030;O75340;Q9Y297;Q7RTU5;O96006;P17676;Q15542;P86452;O60290;P49716;Q10587;Q10586;Q9NZC7;Q9HBZ2;Q02078;O14503;Q8IXF0;Q14814;Q9Y2N7;P18848;O14867;P17535;Q92754;P47928;P41134;P15923;O75132;P17861;O14948;Q9Y543;Q96RJ6;Q08209;P18847;Q9UH92;Q9UMX3;P67775;P19532;Q9NP71;Q9Y2D1;Q7RTU3;Q8WYA1;Q6XD76;P05412;Q8WVJ9;O15160;Q16534;Q02577;Q15853;Q03060;Q99814;P40763;O96004;Q7RTU0;P27540;P22415;P19387;Q15596;P16220;Q9NQ87;Q01664;Q9NQ33;Q99583;Q5TGS1;P01106;P12980;Q8N1L9;P35638;P04198;Q9HAP2;P18846;Q16236}
- 8895 Pathogen[ P03346] interacts with 174 human  
partners: {Q8TEM1;Q6R2W3;Q99081;Q9NQG7;P49716;P05412;Q15542;Q16621;Q99742;Q9Y4Z2;P12524;Q02078;Q86UU5;Q15788;P86452;Q6QHK4;O96006;P18847;Q8N1L9;Q7RTS1;Q14814;Q7RTS3;A6NFD8;P16220;Q96BA8;P17676;P19484;P15336;P36956;P35638;Q02535;Q9HD90;P11831;Q0VG99;P13349;Q70SY1;Q12772;O60290;Q96HZ4;Q9UKI9;Q16559;P17275;Q9UBV8;P17861;Q8IWI9;Q9NR55;P15923;P15172;Q9BW11;P15408;P17535;Q92858;P23409;Q16520;Q8TAK6;Q92886;Q9H4W6;P15173;P12525;Q9NQ33;Q9Y2D1;P27540;P67775;P20823;Q02575;Q8NDY6;Q9BYE0;O60682;Q7RTU5;O75030;Q96RJ6;Q6XD76;P49715;Q92754;Q9Y5J3;Q96SQ7;O14867;Q9BQW3;P12980;O14503;Q15853;P18850;Q16236;P41250;O43680;O96004;P01106;Q9UL49;Q9NP71;P18848;Q14582;O00327;P17542;Q9BYV9;Q8IXF0;Q9C0J9;O75340;O14948;Q15596;O60519;P19532;P41134;Q9NZC7;Q9Y2N7;Q5SVZ6;O15160;Q9HAP2;Q16534;Q8WVJ9;Q5JUK2;P17544;Q15744;Q9NQ87;Q16649;Q99814;Q8NFJ8;A6N15;Q5TGS1;P50539;Q9HBZ2;Q05195;Q14190;O75132;P15407;P04198;Q68CJ9;P61244;Q92481;Q13516;P56589;Q9Y543;Q99929;Q10586;Q02080;A9YTQ3;P19838;Q9UH73;Q03060;Q7RTU0;Q8WYA1;P53567;Q9UMX3;O15516;Q9UH92;Q99583;Q8TEY5;P35869;Q7RTU3;Q9HAK2;Q08209;Q02930;Q10587;Q13562;P40763;Q9Y297;Q02577;Q9NS37;P01100;Q96NK8;Q01664;P53539;Q99743;Q8WYK2;P19387;P15884;Q7RTU4;P18846;Q8IUM7;Q9HC6;P47928;Q8N100;P22415;Q9Y4A8;Q9H2A3}
- 8896 Pathogen[ Q85601] interacts with 131 human  
partners: {Q8TEM1;Q5SVZ6;Q6R2W3;Q9NQG7;P01106;Q68CJ9;Q9NZC7;Q15542;P11831;Q15853;Q02078;P17676;Q16236;P41134;Q9Y4Z2;Q92754;P50539;P19484;P15172;Q9Y2N7;P86452;Q0VG99;Q16621;P53567;O60290;P13349;P12980;Q8NDY6;O75030;P15407;P18848;Q14814;P40763;Q05195;O15516;Q8WYA1;Q16520;Q12772;O00327;O14503;Q7RTU4;Q10587;P18846;Q8N1L9;Q9NQ33;Q99814;P27540;Q9UMX3;O60682;Q7RTU5;P19532;Q99743;Q15596;O96004;Q9NP71;Q02080;Q9UH92;Q08209;Q13562;P01100;P41250;P22415;P23409;Q8NFJ8;P49716;P12524;P17535;Q9BYV9;Q8IXF0;Q02930;O14948;Q14582;Q16649;P18847;P36956;Q5TGS1;A6NFD8;P16220;Q02577;Q15744;P05412;Q9Y543;Q9NQ87;Q9Y4A8;P18850;Q9UKI9;Q9HAP2;A9YTQ3;P15923;Q9HBZ2;O14867;O75340;O75132;P67775;Q99583;P17544;P61244;P49715;Q9Y2D1;Q96RJ6;P19387;P35869;Q16534;Q7RTU0;Q9BW11;O96006;Q99081;P15336;P04198;Q9NS37;Q9BQW3;Q7RTU3;O15160;P17275;P19838;P20823;P12525;Q01664;P53539;P17861;Q03060;Q8WYK2;P15408;Q9NR55;Q9Y5J3;P15884;Q8WVJ9;Q10586;P47928;P35638;Q6XD76}
- 8897 Pathogen[ P14079] interacts with 125 human  
partners: {Q9NQG7;Q9HAK2;Q9BW11;Q8WYK2;O14867;Q99743;Q96RJ6;Q10587;P35869;Q02078;Q99814;Q06413;Q15596;O43422;P13349;Q16649;P19387;Q15853;P56589;P23409;Q68CJ9;Q9Y2N7;P53567;Q5SVZ6;O60290;O60682;Q6XD76;P12524;P16298;Q03060;Q8TEM1;Q8IXF0;Q8WVJ9;Q92902;Q9HAP2;O96004;P19484;Q7Z7C7;P15923;Q9NS37;Q9C093;Q15744;Q12772;Q86UU5;Q99583;Q9H4W6;Q9BQW3;Q9UL49;P12525;P19532;P12980;Q9NZC7;P17544;Q7RTS1;Q02930;Q9NQ33;P49715;O75340;O15160;P27540;Q9Y5J3;P41250;P17275;P15336;Q6R2W3;P04198;Q15788;Q5TGS1;A9YTQ3;Q9UBV8;Q01664;Q9UMX3;Q9BYV9;P50539;P35638;Q16621;Q92754;P01106;Q9UH92;Q16236;Q7RTU0;P18850;Q8N1L9;Q05195;Q14814;P15407;Q02577;O75132;Q9UKI9;P15884;Q9NR55;P41134;Q9HBZ2;O14948;Q9NQ87;Q99081;O14503;P05412;Q9Y4A8;Q7RTU3;O75030;P49716;Q16534;Q8WYA1;Q14582;O96006;P36956;A6NFD8;P86452;Q7RTU4;P15408;P61244;Q02080;P01100;Q9NP71;Q10586;Q8IUM7;Q08209;Q15542;Q8NFJ8;Q16520;P47928;P17535;Q8NDY6;P22415}
- 8898 Pathogen[ P03383] interacts with 83 human  
partners: {Q9NQG7;Q02577;Q68CJ9;Q86UU5;P11831;Q9UH92;Q02080;Q5SVZ6;Q9UKI9;P16220;P27540;Q8N1L9;P17544;Q15596;P15172;Q8WVJ9;P19484;P01106;O96006;Q9UL49;O60290;P18847;P17861;Q9UMX3;Q9NQ87;O75030;Q15542;P35638;P15923;Q02080;O14503;Q14814;P67775;P18846;P12980;Q8TEM1;Q7RTU5;P15408;Q9NP71;Q01664;O96004;Q16621;P86452;P19387;O14948;Q05195;P17676;Q9Y2N7;Q99081;P15407;Q9NQ33;Q16236;Q15853;Q99583;P01100;P04198;Q92754;Q9Y4A8;Q10586;P17535;P53567;Q6R2W3;Q9HAP2;Q5TGS1;O75132;P15336;P41250;Q9NS37;P47928;P18848;P18850;Q02930;Q9Y2D1;P17275;P61244;P19838;P35869;Q16534;Q03060;P19532;Q02078;P22415;P05412}
- 8899 Pathogen[ P03410] interacts with 131 human  
partners: {Q9NQG7;Q99743;Q9Y5J3;Q5SVZ6;P23409;P11831;Q9NS37;P19838;Q68CJ9;P36956;Q8IXF0;P35638;P19387;O96006;Q8WYK2;P17861;Q16520;Q8WVJ9;O96004;Q08209;P17676;Q9BYV9;P18847;P01106;Q99814;O14948;O60682;Q92902;A9YTQ3;Q9NQ87;P18848;Q9Y2N7;Q9Y2D1;P53567;Q14814;Q9UL49;O75030;Q9NZC7;P15884;Q16236;Q9Y543;P12525;P41134;Q7RTS1;A6NFD8;Q03060;P19532;P19484;P49716;P15923;Q9UBV8;P01100;P18846;P61244;Q7RTU4;P15408;P17544;Q6XD76;Q9HBZ2;Q9BW11;Q8NDY6;Q7RTU0;Q02930;P27540;Q99081;Q6R2W3;Q16649;Q5TGS1;P17535;O75132;P17275;Q12772;Q9UMX3;Q16621;Q9BQW3;Q8TEM1;Q9NP71;Q7Z7C7;P41250;P47928;P22415;Q99583;P16220;P864



52;Q8NFXJ8;Q15853;P13349;P05412;Q9NQ33;Q10586;O43422;Q15596;O15160;Q9HAP2;Q8N1L9;Q9UKI9;P12980;P50539;Q9C093;Q01664;Q02577;Q10587;Q02078;Q15542;Q16534;Q7RTU5;P56589;O75340;P12524;P15407;Q9UH92;Q9Y4A8;Q9H4W6;Q15744;Q14582;Q02080;Q7RTU3;Q86UU5;P67775;O14867;P15336;Q9NR55;P40763;P18850;P04198;O60290;Q92754;Q05195;Q8WYA1;Q96RJ6;Q16559}

8900 Pathogen[ P14075] interacts with 85 human partners: {Q9NQ33;Q9NQ7;P35869;Q02577;Q5SVZ6;Q9HAP2;Q5TGS1;O75030;P41250;P05412;Q15542;Q9Y2D1;Q9UMX3;P11831;Q8N1L9;P17861;P53567;P17275;Q9Y4A8;P61244;P18847;P15172;P19484;Q16520;Q9Y2N7;Q9UH92;P35638;P47928;Q02080;P19387;Q7RTU5;P15336;P04198;Q92754;Q9NQ87;P15923;P15408;Q05195;P01106;Q8WVJ9;O14503;O75132;P27540;Q86UU5;O96004;Q9NP71;Q10586;Q15853;O14948;Q01664;Q9UL49;Q8TEM1;P86452;Q6R2W3;O60290;P18848;Q02078;P67775;Q68CJ9;P01100;P12980;P15884;P19838;Q03060;P16220;Q9UKI9;P22415;P15407;Q16621;Q99583;P17676;Q16236;P17544;Q99081;P17535;Q14814;Q9NS37;P19532;Q02930;O96006;Q7Z7C7;Q15596;P18846;P18850;Q16534}

8901 Pathogen[ P0C206] interacts with 144 human partners: {O75340;Q9NQ7;P53567;Q9NQ87;Q16649;Q03060;Q05195;Q9Y2D1;Q7RTU3;O14867;Q9NP71;Q9UBV8;Q9UH92;Q9Y4A8;Q9NR55;Q02078;Q5TGS1;Q9Y2N7;P15407;P12525;P16220;P17275;O14948;O43422;P35869;P17544;O75030;Q15744;P18850;Q9Y4Z2;P56589;Q99583;Q6XD76;Q9UMX3;P05412;Q9C0J9;Q9UL49;Q8WYK2;Q8NFXJ8;P23409;A6NFD8;P15336;P12980;P17535;P49715;P36956;P19484;P12524;Q6R2W3;P18846;P41250;P67775;P19532;Q10587;Q8WVJ9;Q96HZ4;O96004;Q9BYE0;P17861;Q92754;Q15853;P41134;O00327;Q9BYV9;Q7Z7C7;O60682;Q8TEM1;Q02080;P19838;Q99743;O15516;P22415;P19387;Q99081;Q9Y543;P17676;Q9Y5J3;P13349;Q7RTU5;Q9HAP2;Q7RTU4;Q7RTU0;P01100;P86452;Q9UKI9;P15923;P15884;O96006;P20823;P50539;P53539;Q9NS37;P04198;Q14582;Q02930;Q16534;Q9NQ33;Q8N1L9;P40763;P61244;Q8WYA1;Q15542;Q13562;P11831;Q16520;Q01664;P18847;P49716;Q9BQW3;Q9BW11;Q9NZC7;Q15596;Q16236;Q16621;P27540;P15172;Q08209;Q14814;P01106;Q99814;Q8IUM7;Q86UU5;A9YTQ3;Q5SVZ6;Q02577;P47928;Q9H4W6;Q9HAK2;Q15788;P18848;Q0VG99;P15408;Q12772;Q96RJ6;P35638;O15160;O60290;Q9HBZ2;Q10586;Q68CJ9;Q8IXF0;Q8NDY6;Q9H2A3;O75132}

8902 Pathogen[ P03363] interacts with 144 human partners: {Q92886;Q16236;Q5TGS1;Q7RTS1;Q8TAK6;Q9NR55;Q9NQ7;Q8IUM7;P17535;P18848;Q5SVZ6;P49716;Q16649;Q9Y4Z2;Q96RJ6;Q8NDY6;Q9UH92;P12525;Q9Y5J3;Q15853;P27540;P17676;Q5JUK2;Q02930;Q14582;P53567;Q9BYV9;Q13516;O75340;P12524;P86452;P53539;Q99742;P50539;Q0VG99;Q15744;Q9NS37;P18847;Q99929;Q10586;O75132;Q9Y4A8;P19387;Q9NQ87;P41250;Q7RTS3;P04198;P18850;Q96HZ4;Q9UKI9;Q16520;Q9C0J9;P16220;Q9Y2D1;Q16621;Q02080;Q9NQ33;Q9HBZ2;O43422;O14867;O14948;Q15596;Q9HAP2;P01106;Q8N1L9;Q99743;Q8WYK2;P35869;P17275;P13349;Q9BYE0;P61244;P15923;P15336;Q9UBV8;P11831;O75030;Q92902;Q14814;Q86UU5;P18846;Q8WYA1;O00327;Q7RTU0;Q9BW11;P17861;O96006;Q9Y2N7;P41134;Q6XD76;Q68CJ9;Q9HCC6;P47928;O96004;Q8IXF0;P35638;Q15542;Q9BQW3;P15407;P22415;Q96NK8;A9YTQ3;P19838;Q99814;Q8IWI9;O60682;Q7RTU5;Q7RTU4;Q05195;P23409;P12980;P19484;P15884;P05412;P19532;Q8NFXJ8;Q9Y543;Q96SQ7;Q9NP71;Q99081;O60290;P17544;Q16534;P15172;Q6R2W3;P67775;P15408;Q9UMX3;Q9UL49;Q99583;Q01664;Q8WVJ9;Q03060;O14503;Q10587;O15160;Q02577;Q92754;Q7RTU3;A6NFD8;P01100;Q9H2A3;Q6QHK4;Q02078}

8903 [Cluster 810]GO:0051010+F molecular\_function [name] microtubule plus-end binding [def] "Interacting selectively and non-covalently with the plus end of a microtubule." [GOC

8904 Pathogen[ Q2Q067] interacts with 3 human partners: {Q7Z460;O75122;Q15691}

8905 Pathogen[ P0C214] interacts with 3 human partners: {Q15691;O75122;Q7Z460}

8906 Pathogen[ P03346] interacts with 4 human partners: {Q15691;P30622;O75122;Q7Z460}

8907 Pathogen[ Q85601] interacts with 4 human partners: {P30622;O75122;Q15691;Q7Z460}

8908 Pathogen[ P14079] interacts with 5 human partners: {Q15691;Q7Z460;Q99661;O75122;P30622}

8909 Pathogen[ P03383] interacts with 2 human partners: {Q7Z460;Q15691}

8910 Pathogen[ P03410] interacts with 4 human partners: {Q7Z460;P30622;Q15691;O75122}

8911 Pathogen[ P14075] interacts with 2 human partners: {Q7Z460;Q15691}

8912 Pathogen[ P0C206] interacts with 4 human partners: {Q15691;P30622;O75122;Q7Z460}

8913 Pathogen[ P03363] interacts with 4 human partners: {Q9UDT6;Q15691;P30622;Q7Z460}

8914 [Cluster 811]GO:0030170+F molecular\_function [name] pyridoxal phosphate binding [def] "Interacting selectively and non-covalently with pyridoxal 5' phosphate, 3-hydroxy-5-(hydroxymethyl)-2-methyl-4-pyridine carboxaldehyde 5' phosphate, the biologically active form of vitamin B6." [GOC

8915 Pathogen[ Q2Q067] interacts with 7 human partners: {P22557;P13196;P34896;Q16719;Q9HD40;Q9Y697;P32929}

8916 Pathogen[ P0C214] interacts with 12 human partners: {Q9Y617;P34897;P22557;P13196;P32929;Q9Y697;P34896;O94903;Q9HD40;P35520;Q16719;Q16773}

8917 Pathogen[ P03346] interacts with 7 human partners: {Q9Y697;P22557;P13196;P20132;P32929;Q9HD40;Q16719}

8918 Pathogen[ Q85601] interacts with 7 human partners: {Q9HD40;Q16719;Q9Y697;P13196;P34896;O94903;P32929}

8919 Pathogen[ P14079] interacts with 11 human partners: {P13196;P20132;Q9Y617;P22557;P34897;O94903;Q16719;Q9Y697;P32929;Q9HD40;P34896}

8920 Pathogen[ P03383] interacts with 4 human partners: {Q9HD40;P34896;Q9Y697;Q16719}

8921 Pathogen[ P03410] interacts with 12 human partners: {Q16719;P32929;P20132;Q9Y697;Q9Y617;P22557;O75600;Q9HD40;P13196;O94903;P34897;P34896}

8922 Pathogen[ P14075] interacts with 5 human partners: {Q16719;P34896;O94903;Q9HD40;Q9Y697}

8923 Pathogen[ P0C206] interacts with 10 human partners: {Q9Y697;Q9HD40;P34897;P20132;Q16719;P34896;P22557;P32929;O94903;P13196}

8924 Pathogen[ P03363] interacts with 3 human partners:{Q9HD40;Q9Y697;P13196}

8925 [Cluster 812]GO:0004221+F molecular\_function [name] ubiquitin thiolesterase activity  
[def] "Catalysis of the reaction

8926 Pathogen[ Q2Q067] interacts with 8 human  
partners:{Q9Y5K5;P54252;Q93009;Q70EL1;Q504Q3;Q86T82;Q70EK8;Q93008}

8927 Pathogen[ P0C214] interacts with 8 human  
partners:{Q504Q3;Q92560;Q93008;Q9Y5K5;Q70EK8;Q93009;Q70EL1;P54252}

8928 Pathogen[ P03346] interacts with 21 human  
partners:{Q9BXU7;Q504Q3;Q93009;Q92560;Q70EK8;Q93008;P0C7H9;P0C7I0;Q86T82;Q9UHP3;Q1469  
4;P51784;Q86UV5;O75604;Q70EL1;Q6GQQ9;O94782;Q9Y5K5;A6NCW7;Q9H0E7;P54252}

8929 Pathogen[ Q85601] interacts with 12 human  
partners:{Q9Y5T5;Q9H0E7;Q93009;Q92560;Q93008;Q504Q3;P54252;Q9NQC7;Q70EK8;Q9Y5K5;Q86T8  
2;Q70EL1}

8930 Pathogen[ P14079] interacts with 9 human  
partners:{Q70EL1;P54252;Q70EK8;O00487;Q9Y5K5;Q92560;Q5W0Q7;Q504Q3;Q9NQC7}

8931 Pathogen[ P03383] interacts with 4 human partners:{P54252;Q9Y5K5;Q70EK8;Q70EL1}

8932 Pathogen[ P03410] interacts with 5 human  
partners:{Q70EL1;P54252;Q70EK8;Q9Y5K5;Q504Q3}

8933 Pathogen[ P14075] interacts with 4 human partners:{Q70EL1;Q70EK8;P54252;Q9Y5K5}

8934 Pathogen[ P0C206] interacts with 15 human  
partners:{Q9NQC7;Q504Q3;Q9Y5T5;Q93008;O75604;Q70EL1;Q93009;P54252;Q9H0E7;Q9Y5K5;Q86T8  
2;Q6GQQ9;Q9UHP3;Q92560;Q70EK8}

8935 Pathogen[ P03363] interacts with 12 human  
partners:{Q504Q3;Q9Y5K5;P51784;Q6GQQ9;Q9UHP3;O75604;P54252;Q92560;Q86T82;Q9BXU7;Q70EL  
1;Q93008}

8936 [Cluster 813]GO:0003721+F molecular\_function [name] telomeric template RNA reverse  
transcriptase activity [def] "Catalysis of the extension of the 3' end of a DNA strand  
by one deoxynucleotide at a time. Cannot initiate a chain de novo\_ uses the RNA subunit  
of the telomerase enzyme complex as its template." [EC

8937 Pathogen[ Q2Q067] interacts with 1 human partners:{O14746}

8938 Pathogen[ P0C214] interacts with 1 human partners:{O14746}

8939 Pathogen[ P03346] interacts with 1 human partners:{O14746}

8940 Pathogen[ Q85601] interacts with 1 human partners:{O14746}

8941 Pathogen[ P14079] interacts with 1 human partners:{O14746}

8942 Pathogen[ P03383] interacts with 1 human partners:{O14746}

8943 Pathogen[ P03410] interacts with 1 human partners:{O14746}

8944 Pathogen[ P14075] interacts with 1 human partners:{O14746}

8945 Pathogen[ P0C206] interacts with 1 human partners:{O14746}

8946 Pathogen[ P03363] interacts with 1 human partners:{O14746}

8947 [Cluster 814]GO:0004619+F molecular\_function [name] phosphoglycerate mutase activity  
[def] "Catalysis of the reaction

8948 Pathogen[ Q2Q067] interacts with 4 human partners:{Q8N0Y7;P18669;P15259;P07738}

8949 Pathogen[ P0C214] interacts with 3 human partners:{P15259;Q8N0Y7;P07738}

8950 Pathogen[ P03346] interacts with 4 human partners:{P07738;P18669;Q8N0Y7;P15259}

8951 Pathogen[ Q85601] interacts with 4 human partners:{P18669;P15259;Q8N0Y7;P07738}

8952 Pathogen[ P14079] interacts with 4 human partners:{P15259;P07738;P18669;Q8N0Y7}

8953 Pathogen[ P03383] interacts with 4 human partners:{P18669;P07738;Q8N0Y7;P15259}

8954 Pathogen[ P03410] interacts with 4 human partners:{P07738;Q8N0Y7;P15259;P18669}

8955 Pathogen[ P14075] interacts with 4 human partners:{P18669;P15259;P07738;Q8N0Y7}

8956 Pathogen[ P0C206] interacts with 4 human partners:{Q8N0Y7;P07738;P18669;P15259}

8957 Pathogen[ P03363] interacts with 3 human partners:{P18669;Q8N0Y7;P15259}

8958 [Cluster 815]GO:0017065+F molecular\_function [name] single-strand selective uracil DNA  
N-glycosylase activity [def] "Catalysis of the cleavage of the N-C1' glycosidic bond  
between the damaged DNA base and the deoxyribose sugar, releasing a free base and leaving  
an apyrimidinic (AP) site. Enzymes with this activity recognize and remove uracil bases  
present in single-stranded DNA." [GOC

8959 Pathogen[ Q2Q067] interacts with 1 human partners:{Q53HV7}

8960 Pathogen[ P0C214] interacts with 1 human partners:{Q53HV7}

8961 Pathogen[ P03346] interacts with 1 human partners:{Q53HV7}

8962 Pathogen[ Q85601] interacts with 1 human partners:{Q53HV7}

8963 Pathogen[ P14079] interacts with 1 human partners:{Q53HV7}

8964 Pathogen[ P03383] interacts with 1 human partners:{Q53HV7}

8965 Pathogen[ P03410] interacts with 1 human partners:{Q53HV7}

8966 Pathogen[ P14075] interacts with 1 human partners:{Q53HV7}

8967 Pathogen[ P0C206] interacts with 1 human partners:{Q53HV7}

8968 Pathogen[ P03363] interacts with 1 human partners:{Q53HV7}

8969 [Cluster 816]GO:0046976+F molecular\_function [name] histone methyltransferase activity  
(H3-K27 specific) [def] "Catalysis of the reaction

8970 Pathogen[ Q2Q067] interacts with 1 human partners:{Q92800}

8971 Pathogen[ P0C214] interacts with 1 human partners:{Q92800}

8972 Pathogen[ P03346] interacts with 1 human partners:{Q92800}

8973 Pathogen[ Q85601] interacts with 1 human partners:{Q92800}

8974 Pathogen[ P14079] interacts with 1 human partners:{Q92800}

8975 Pathogen[ P03383] interacts with 1 human partners:{Q92800}

8976 Pathogen[ P03410] interacts with 1 human partners:{Q92800}

8977 Pathogen[ P14075] interacts with 1 human partners:{Q92800}

8978 Pathogen[ P0C206] interacts with 1 human partners:{Q92800}  
8979 Pathogen[ P03363] interacts with 1 human partners:{Q92800}  
8980 [Cluster 817]GO:0070087+F molecular\_function [name] chromo shadow domain binding [def] "Interacting selectively and non-covalently with a chromo shadow domain, a protein domain that is distantly related, and found in association with, the chromo domain." [GOC  
8981 Pathogen[ Q2Q067] interacts with 4 human partners:{Q13111;P46100;Q14739;P23497}  
8982 Pathogen[ P0C214] interacts with 4 human partners:{Q14739;Q13111;P46100;P23497}  
8983 Pathogen[ P03346] interacts with 5 human partners:{Q13263;Q14739;P46100;Q13111;P23497}  
8984 Pathogen[ Q85601] interacts with 4 human partners:{Q13263;Q13111;P46100;Q14739}  
8985 Pathogen[ P14079] interacts with 4 human partners:{Q14739;Q13111;P23497;P46100}  
8986 Pathogen[ P03383] interacts with 3 human partners:{P46100;Q13111;P23497}  
8987 Pathogen[ P03410] interacts with 3 human partners:{Q14739;Q13111;P46100}  
8988 Pathogen[ P14075] interacts with 3 human partners:{P23497;Q13111;P46100}  
8989 Pathogen[ P0C206] interacts with 4 human partners:{Q14739;Q13263;Q13111;P46100}  
8990 Pathogen[ P03363] interacts with 4 human partners:{Q13111;P23497;P46100;Q14739}  
8991 [Cluster 818]GO:0000340+F molecular\_function [name] RNA 7-methylguanosine cap binding [def] "Interacting selectively and non-covalently with the 7-methylguanosine group added cotranscriptionally to the 5' end of RNA molecules transcribed by polymerase II." [GOC  
8992 Pathogen[ Q2Q067] interacts with 3 human partners:{Q96C86;Q9UKV8;P52298}  
8993 Pathogen[ P0C214] interacts with 3 human partners:{Q96C86;P52298;Q9UKV8}  
8994 Pathogen[ P03346] interacts with 3 human partners:{Q96C86;P52298;Q9UKV8}  
8995 Pathogen[ Q85601] interacts with 3 human partners:{Q96C86;Q9UKV8;P52298}  
8996 Pathogen[ P14079] interacts with 3 human partners:{Q9UKV8;P52298;Q96C86}  
8997 Pathogen[ P03383] interacts with 3 human partners:{Q9UKV8;P52298;Q96C86}  
8998 Pathogen[ P03410] interacts with 3 human partners:{Q9UKV8;P52298;Q96C86}  
8999 Pathogen[ P14075] interacts with 3 human partners:{Q9UKV8;Q96C86;P52298}  
9000 Pathogen[ P0C206] interacts with 3 human partners:{P52298;Q96C86;Q9UKV8}  
9001 Pathogen[ P03363] interacts with 3 human partners:{Q9UKV8;P52298;Q96C86}  
9002 [Cluster 819]GO:0036105+F  
9003 Pathogen[ Q2Q067] interacts with 1 human partners:{P40855}  
9004 Pathogen[ P0C214] interacts with 1 human partners:{P40855}  
9005 Pathogen[ P03346] interacts with 1 human partners:{P40855}  
9006 Pathogen[ Q85601] interacts with 1 human partners:{P40855}  
9007 Pathogen[ P14079] interacts with 1 human partners:{P40855}  
9008 Pathogen[ P03383] interacts with 1 human partners:{P40855}  
9009 Pathogen[ P03410] interacts with 1 human partners:{P40855}  
9010 Pathogen[ P14075] interacts with 1 human partners:{P40855}  
9011 Pathogen[ P0C206] interacts with 1 human partners:{P40855}  
9012 Pathogen[ P03363] interacts with 1 human partners:{P40855}  
9013 [Cluster 820]GO:0004674+F molecular\_function [name] protein serine/threonine kinase activity [def] "Catalysis of the reactions  
9014 Pathogen[ Q2Q067] interacts with 20 human partners:{P31749;O14757;O75582;P67870;O96017;P50750;Q13233;P50613;Q8IZX4;O14920;P45984;O43318;P49336;P21675;P24941;P11802;O15111;Q15759;Q13501;Q00534}  
9015 Pathogen[ P0C214] interacts with 25 human partners:{O15111;Q9Y376;P21675;Q14164;P50750;P50613;P11802;O94921;O43318;Q13501;Q00534;Q13233;P21127;Q00536;O96017;P49336;P24941;Q8IZX4;O75582;Q15759;P45984;P67870;O14757;O14920;P31749}  
9016 Pathogen[ P03346] interacts with 31 human partners:{P45984;Q00536;O15111;O96017;P21127;P49336;P24941;O14757;Q9Y376;Q86Z02;P11802;P31749;Q8TD19;P50750;Q13233;O75582;O75131;P21675;Q15759;Q96PY6;P45985;Q00534;O14920;P67870;O94921;Q8IZX4;O43318;O14965;Q14164;Q13501;O00444}  
9017 Pathogen[ Q85601] interacts with 28 human partners:{Q00536;P31749;O96017;P50750;Q96PY6;O15111;P49336;Q9Y376;Q8IZX4;P11802;O14757;O14965;Q14164;O14920;O94921;O75582;P50613;Q15759;P45984;P21675;P21127;P67870;Q13233;Q00534;O43318;P24941;P51955;Q13501}  
9018 Pathogen[ P14079] interacts with 24 human partners:{P31751;Q14004;Q8IZX4;P53779;P49336;P52564;P49842;O75582;Q14164;P45984;P45983;P50613;P51955;Q16644;Q15759;P45985;P21127;Q13501;P67870;Q13164;O14965;Q9Y376;P21675;P50750}  
9019 Pathogen[ P03383] interacts with 27 human partners:{Q9NYV4;O14757;O75582;Q13233;Q8TD19;O14920;P31749;O15111;Q00536;Q8IZX4;Q00534;P11802;O43318;P21127;P49336;P50613;P24941;P50750;Q15759;O94921;Q13501;O14965;P67870;Q96PY6;P21675;P45984;O96017}  
9020 Pathogen[ P03410] interacts with 23 human partners:{Q8IZX4;O14920;Q00534;P21675;O15111;O75582;Q13501;P31749;Q13233;P50613;O14965;P50750;O43318;Q9Y376;P45985;P24941;P11802;O96017;O14757;P49336;P45984;P53779;P67870}  
9021 Pathogen[ P14075] interacts with 28 human partners:{P49336;O15111;P21675;P24941;P11802;Q15759;O75582;P50613;Q00534;P50750;O14920;P31749;O96017;O14965;P67870;O43318;P49842;P21127;Q96PY6;Q13233;O94921;Q9UQ88;Q9NYV4;O14757;Q13501;Q8IZX4;P45984;Q8TD19}  
9022 Pathogen[ P0C206] interacts with 33 human partners:{Q13501;P49336;O14920;P31749;P50750;O96017;P51955;O75582;P45984;Q00536;O43318;Q96PY6;O00444;Q9Y376;Q8TD19;Q13233;Q8IZX4;P30291;Q14164;P50613;O15111;P67870;P45985

;P21127;O14965;P24941;Q15759;P11802;O94921;Q99640;Q99986;P21675;Q00534}

9023 Pathogen[ P03363] interacts with 18 human partners:{Q8IZX4;O14920;P21127;O15111;O43318;P24941;O96017;Q00534;P31749;P49336;Q9Y376;P21675;P50750;P67870;P11802;Q00536;Q13233;O14757}

9024 [Cluster 821]GO:0030346+F molecular\_function [name] protein phosphatase 2B binding [def] "Interacting selectively and non-covalently with the enzyme protein phosphatase 2B." [GOC

9025 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9Y6J0;Q9NPC6}

9026 Pathogen[ P0C214] interacts with 2 human partners:{Q9NPC6;Q9Y6J0}

9027 Pathogen[ P03346] interacts with 2 human partners:{Q9Y6J0;Q9NPC6}

9028 Pathogen[ Q85601] interacts with 2 human partners:{Q9Y6J0;Q9NPC6}

9029 Pathogen[ P14079] interacts with 4 human partners:{P24588;P16298;Q9NPC6;Q9Y6J0}

9030 Pathogen[ P03383] interacts with 1 human partners:{Q9NPC6}

9031 Pathogen[ P03410] interacts with 3 human partners:{Q9Y6J0;Q9NPC6;P24588}

9032 Pathogen[ P14075] interacts with 1 human partners:{Q9NPC6}

9033 Pathogen[ P0C206] interacts with 2 human partners:{Q9Y6J0;Q9NPC6}

9034 Pathogen[ P03363] interacts with 2 human partners:{Q9Y6J0;Q9NPC6}

9035 [Cluster 822]GO:0050815+F molecular\_function [name] phosphoserine binding [def] "Interacting selectively and non-covalently with a phosphorylated serine residue within a protein." [GOC

9036 Pathogen[ Q2Q067] interacts with 3 human partners:{P62258;Q13526;P31946}

9037 Pathogen[ P0C214] interacts with 2 human partners:{Q13526;P31946}

9038 Pathogen[ P03346] interacts with 3 human partners:{P62258;Q13526;P31946}

9039 Pathogen[ Q85601] interacts with 3 human partners:{P31946;Q13526;P62258}

9040 Pathogen[ P14079] interacts with 3 human partners:{P31946;P62258;Q13526}

9041 Pathogen[ P03383] interacts with 3 human partners:{P31946;P62258;Q13526}

9042 Pathogen[ P03410] interacts with 3 human partners:{P62258;Q13526;P31946}

9043 Pathogen[ P14075] interacts with 3 human partners:{Q13526;P31946;P62258}

9044 Pathogen[ P0C206] interacts with 3 human partners:{Q13526;P31946;P62258}

9045 Pathogen[ P03363] interacts with 3 human partners:{P62258;P31946;Q13526}

9046 [Cluster 823]GO:0030246+F molecular\_function [name] carbohydrate binding [def] "Interacting selectively and non-covalently with any carbohydrate, any of a group of organic compounds based of the general formula Cx(H2O)y." [GOC

9047 Pathogen[ Q2Q067] interacts with 5 human partners:{P27797;P04264;Q9Y4K1;Q9NRD1;Q14397}

9048 Pathogen[ P0C214] interacts with 8 human partners:{P04264;Q9NRD1;Q9NPB8;P49257;O95278;Q14397;P27797;Q9Y4K1}

9049 Pathogen[ P03346] interacts with 10 human partners:{P49257;Q13438;Q8TCE9;Q9NRD1;P27797;Q14397;Q9Y4K1;Q96DT0;P04264;O95278}

9050 Pathogen[ Q85601] interacts with 7 human partners:{P27797;O95278;P04264;P49257;Q9Y4K1;Q14397;Q9NRD1}

9051 Pathogen[ P14079] interacts with 18 human partners:{A8MUM7;P49257;Q9NPB8;Q15155;Q96DT0;Q9NTJ4;Q96C23;Q68DQ2;Q5JPE7;P69849;Q8N1P7;Q9NRD1;Q14397;Q9H0V9;P04264;Q9Y4K1;Q9NPA0;Q13438}

9052 Pathogen[ P03383] interacts with 5 human partners:{Q14397;Q9Y4K1;P04264;Q9NRD1;P27797}

9053 Pathogen[ P03410] interacts with 17 human partners:{P69849;Q14397;Q9H0V9;Q9NRD1;Q9NPA0;P49257;P04264;Q9NPB8;Q96DT0;Q9NTJ4;Q96C23;Q9Y4K1;Q8TCE9;Q68DQ2;Q13438;Q8N1P7;P27797}

9054 Pathogen[ P14075] interacts with 5 human partners:{Q9Y4K1;P04264;P27797;Q14397;Q9NRD1}

9055 Pathogen[ P0C206] interacts with 12 human partners:{P27797;Q8N1P7;P04264;Q9Y4K1;Q9NRD1;Q96C23;P49257;O95278;Q96DT0;Q9NPB8;Q14397;Q13438}

9056 Pathogen[ P03363] interacts with 6 human partners:{Q14397;P27797;Q9Y4K1;Q13438;P04264;Q9NRD1}

9057 [Cluster 824]GO:0030414+F molecular\_function [name] peptidase inhibitor activity [def] "Stops, prevents or reduces the activity of a peptidase, any enzyme that catalyzes the hydrolysis peptide bonds." [GOC

9058 Pathogen[ Q2Q067] interacts with 9 human partners:{P01009;P08697;P50453;Q9NR09;P48595;P20810;P50452;O15392;P35237}

9059 Pathogen[ P0C214] interacts with 29 human partners:{P08697;P35237;Q9UK55;P01011;P29622;P48594;Q86WD7;P05121;P29508;P20810;O75830;P98170;O75635;A8MV23;P05546;P07093;P01008;P30740;Q96P63;P50453;O15392;P05120;Q99574;Q9NR09;Q9UIV8;Q96P15;P50452;Q96CA5;P48595}

9060 Pathogen[ P03346] interacts with 15 human partners:{P50452;O15392;P35237;P98170;O75635;P04080;P50453;Q96P63;Q9NR09;P01009;Q9H112;Q96P15;Q96CA5;P20810;P48595}

9061 Pathogen[ Q85601] interacts with 20 human partners:{P50452;Q96P15;P01011;P98170;O15392;P35237;P08697;P01009;P05121;P50453;P05120;P01008;Q9NR09;P48595;P30740;O75635;P07093;Q96CA5;P29508;Q96P63}

9062 Pathogen[ P14079] interacts with 9 human partners:{P35237;P50452;P04080;O15392;P20810;Q9NR09;P03973;P50453;P48595}

9063 Pathogen[ P03383] interacts with 12 human partners:{P08697;P30740;P01009;P01008;P48595;P20810;P50453;Q96P63;P35237;Q9NR09;P50452;O75635}

9064 Pathogen[ P03410] interacts with 18 human partners: {O15392;P05121;Q8IUB3;Q9H1F0;Q96P63;P50452;Q9NR09;Q96P15;P08697;P50453;P01009;P20810;Q99935;P35237;O75635;P30740;P48595;P01011}

9065 Pathogen[ P14075] interacts with 8 human partners: {P20810;P01009;P48595;P08697;P50452;P50453;Q9NR09;P35237}

9066 Pathogen[ P0C206] interacts with 18 human partners: {P50452;P01008;P98170;P35237;P01009;P50453;Q9NR09;Q96P15;O75635;P20810;O15392;P05121;Q96CA5;P48595;Q96P63;P01011;P30740;P08697}

9067 Pathogen[ P03363] interacts with 12 human partners: {P20810;P35237;P50452;P50453;Q96P63;Q9H112;Q9NR09;O75635;P98170;Q96P15;Q96CA5;P48595}

9068 [Cluster 825]GO:0004866+F molecular\_function [name] endopeptidase inhibitor activity [def] "Stops, prevents or reduces the activity of an endopeptidase, any enzyme that hydrolyzes nonterminal peptide bonds in polypeptides." [GOC

9069 Pathogen[ Q2Q067] interacts with 4 human partners: {Q9Y5K5;Q92530;P08697;P20810}

9070 Pathogen[ P0C214] interacts with 5 human partners: {P08697;P20810;Q9Y5K5;P05546;Q92530}

9071 Pathogen[ P03346] interacts with 4 human partners: {P04080;P20810;Q92530;Q9Y5K5}

9072 Pathogen[ Q85601] interacts with 3 human partners: {P08697;Q9Y5K5;Q92530}

9073 Pathogen[ P14079] interacts with 6 human partners: {P04080;P51606;P20810;Q9Y5K5;P03973;Q92530}

9074 Pathogen[ P03383] interacts with 4 human partners: {P08697;P20810;Q9Y5K5;Q92530}

9075 Pathogen[ P03410] interacts with 5 human partners: {P51606;P08697;Q9Y5K5;P20810;Q99935}

9076 Pathogen[ P14075] interacts with 4 human partners: {P20810;Q92530;P08697;Q9Y5K5}

9077 Pathogen[ P0C206] interacts with 4 human partners: {Q9Y5K5;P20810;Q92530;P08697}

9078 Pathogen[ P03363] interacts with 3 human partners: {P20810;Q9Y5K5;Q92530}

9079 [Cluster 826]GO:0042393+F molecular\_function [name] histone binding [def] "Interacting selectively and non-covalently with a histone, any of a group of water-soluble proteins found in association with the DNA of plant and animal chromosomes. They are involved in the condensation and coiling of chromosomes during cell division and have also been implicated in nonspecific suppression of gene activity." [GOC

9080 Pathogen[ Q2Q067] interacts with 36 human partners: {O00213;P18754;Q9NVM4;Q96LA8;Q9Y3T9;Q01105;Q96T88;P06748;Q9NPI1;Q8N5D0;Q96P70;Q09028;Q13112;Q15021;Q8NI51;O43918;O60907;Q5VTR2;Q99543;Q96T23;Q96HA7;Q58F21;Q969R5;O76064;Q8TDB6;O95373;Q9BZK7;Q9HCK8;Q9Y294;Q96PU4;Q9BQA5;P49321;Q8NCD3;Q9Y468;Q96RL1;Q9NQ92}

9081 Pathogen[ P0C214] interacts with 38 human partners: {Q8NI51;O00213;Q9Y3T9;Q58F21;Q96P70;Q8N5D0;P06748;Q13112;O60907;Q9NVM4;Q96PU4;Q9Y468;Q96T88;Q01105;Q09028;Q8NCD3;P49321;Q9HCK8;O60264;Q96RL1;O43918;Q9Y294;Q9NPI1;Q96T23;Q9BZK7;Q99543;Q9BQA5;Q9NQ92;Q5VTR2;Q8TDB6;Q8IYW5;Q969R5;P18754;O76064;O95373;Q96HA7;Q15021;Q96LA8}

9082 Pathogen[ P03346] interacts with 40 human partners: {Q8NI51;O00213;Q9NQ92;Q96P70;O76064;Q96HA7;O60907;O43918;P06748;Q99543;Q5VTR2;Q01105;Q9NPI1;P18754;Q96RL1;P49321;Q8NCD3;Q86SE8;Q58F21;Q8N5D0;Q969R5;Q15021;O95373;O60264;Q09028;Q9HCK8;Q9NVM4;Q9Y3T9;Q96T23;P35659;Q9Y468;Q8IYW5;Q9BZK7;Q96PU4;Q8TDB6;Q13112;Q9Y294;Q96LA8;Q96T88;Q9BQA5}

9083 Pathogen[ Q85601] interacts with 40 human partners: {Q8NI51;Q99543;O00213;Q9Y5T5;Q96HA7;Q8TDB6;Q96RL1;Q96P70;O60907;Q96T23;Q9Y294;Q01105;Q13112;Q86SE8;Q9Y468;Q9NQ92;Q9NVM4;Q96PU4;P49321;Q8NCD3;Q969R5;O76064;O95373;Q96T88;P06748;Q8IYW5;Q09028;Q9BQA5;Q9Y3T9;Q9NPI1;Q5VTR2;Q9HCK8;Q9BZK7;P18754;O60264;Q58F21;Q8N5D0;O43918;Q15021;Q96LA8}

9084 Pathogen[ P14079] interacts with 34 human partners: {O95373;Q9NPI1;Q01105;Q96T23;Q9BZK7;Q8N5D0;Q96LA8;Q96P70;Q58F21;Q9NVM4;Q9Y468;O60907;O00213;Q13112;Q9BQA5;Q99543;Q9Y3T9;Q96HA7;Q969R5;Q5VTR2;Q9HCK8;Q96RL1;O60264;P06748;P35659;O43918;Q8NCD3;P49321;Q9Y294;Q15021;Q09028;P18754;Q9NQ92;Q8NI51}

9085 Pathogen[ P03383] interacts with 32 human partners: {Q09028;Q8NI51;O00213;Q01105;Q9NQ92;P06748;Q96RL1;O60907;Q96P70;Q96PU4;P49321;Q96T23;Q9Y3T9;Q9BQA5;Q9Y294;P18754;Q99543;O43918;Q58F21;Q5VTR2;Q9HCK8;Q8NCD3;Q9BZK7;Q9NPI1;O95373;Q96HA7;Q969R5;Q13112;Q8N5D0;Q96LA8;Q15021;Q9Y468}

9086 Pathogen[ P03410] interacts with 35 human partners: {Q96RL1;P49321;Q86SE8;Q96LA8;Q96T23;Q9BQA5;Q96P70;O43918;Q9NVM4;O00213;Q5VTR2;Q9Y468;Q01105;Q9Y3T9;P06748;Q8NCD3;P35659;Q09028;Q9Y294;Q13112;Q9HCK8;Q8N5D0;Q9NQ92;Q8NI51;Q9BZK7;P18754;O60264;Q99543;Q58F21;Q96HA7;O60907;Q969R5;Q9NPI1;O95373;Q15021}

9087 Pathogen[ P14075] interacts with 33 human partners: {P49321;Q5VTR2;Q8NI51;O00213;P35659;Q969R5;Q9NPI1;Q9BQA5;Q96P70;Q8N5D0;Q9Y468;Q96PU4;O43918;Q99543;Q01105;Q09028;Q96HA7;Q58F21;Q96LA8;O95373;Q9HCK8;O60907;P06748;Q9Y3T9;Q8NCD3;Q9BZK7;Q96T23;P18754;Q9Y294;Q13112;Q96RL1;Q9NQ92;Q15021}

9088 Pathogen[ P0C206] interacts with 42 human partners: {Q96HA7;Q13112;Q9Y468;Q9HCK8;Q9NPI1;Q8IYW5;Q9Y5T5;P18754;O60907;Q96LA8;Q8NI51;Q15021;Q96P70;Q96T23;P49321;Q9BQA5;Q5VTR2;Q8TDB6;O43918;O00213;Q9NVM4;O95373;Q8NCD3;Q99543;Q96T88;Q9NQ92;Q86SE8;Q9BZK7;Q9Y294;P35659;Q969R5;Q09028;Q58F21;P06748;Q96RL1;Q8N5D0;O76064;Q01105;Q9Y3T9;Q96PU4;Q9UIG0;O60264}

9089 Pathogen[ P03363] interacts with 38 human partners: {Q13112;Q8TDB6;Q15021;P49321;Q9Y468;Q8N5D0;Q58F21;Q99543;Q96LA8;Q09028;Q96RL1;O00213;Q9BZK7;O60907;Q96P70;P35659;Q9Y294;Q5VTR2;Q8IYW5;Q8NI51;P06748;O60264;Q96T23}

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;Q9NVM4;Q9HCK8;Q9NPI1;Q9BQA5;Q8NCD3;Q9Y3T9;Q96T88;O95373;Q9NQ92;O43918;Q86SE8;Q96PU4;
Q01105;P18754;Q96HA7}
9090 [Cluster 827]GO:0001664+F molecular_function [name] G-protein coupled receptor binding
[def] "Interacting selectively and non-covalently with a G-protein coupled receptor."
[GOC
9091 Pathogen[ Q2Q067] interacts with 1 human partners:{P62879}
9092 Pathogen[ P0C214] interacts with 1 human partners:{P62879}
9093 Pathogen[ P03346] interacts with 1 human partners:{P62879}
9094 Pathogen[ Q85601] interacts with 1 human partners:{P62879}
9095 Pathogen[ P14079] interacts with 4 human partners:{P24588;Q8N729;Q8NG41;P0DJI8}
9096 Pathogen[ P03383] interacts with 1 human partners:{P62879}
9097 Pathogen[ P03410] interacts with 5 human
partners:{P0DJI8;Q8NG41;Q8N729;P62879;P24588}
9098 Pathogen[ P14075] interacts with 1 human partners:{P62879}
9099 Pathogen[ P0C206] interacts with 2 human partners:{P62879;Q8N729}
9100 Pathogen[ P03363] interacts with 2 human partners:{P62879;Q8N729}
9101 [Cluster 828]GO:0001032+F molecular_function [name] RNA polymerase III type 3 promoter
DNA binding [def] "Interacting selectively and non-covalently with a region of DNA that
is a part of a type 3 promoter that controls transcription by RNA polymerase III. A type
3 Pol III promoter is composed of elements upstream of the transcription start site,
including a TATA box. The human U6 snRNA gene has a type 3 promoter. Type 3 Pol III
promoters have not been observed in S. cerevisiae." [GOC
9102 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9H063}
9103 Pathogen[ P0C214] interacts with 1 human partners:{Q9H063}
9104 Pathogen[ P03346] interacts with 1 human partners:{Q9H063}
9105 Pathogen[ Q85601] interacts with 1 human partners:{Q9H063}
9106 Pathogen[ P14079] interacts with 1 human partners:{Q9H063}
9107 Pathogen[ P03383] interacts with 1 human partners:{Q9H063}
9108 Pathogen[ P03410] interacts with 1 human partners:{Q9H063}
9109 Pathogen[ P14075] interacts with 1 human partners:{Q9H063}
9110 Pathogen[ P0C206] interacts with 1 human partners:{Q9H063}
9111 Pathogen[ P03363] interacts with 1 human partners:{Q9H063}
9112 [Cluster 829]GO:0046523+F molecular_function [name] S-methyl-5-thioribose-1-phosphate
isomerase activity [def] "Catalysis of the reaction
9113 Pathogen[ Q2Q067] interacts with 4 human partners:{P49770;Q9UI10;Q14232;Q9BV20}
9114 Pathogen[ P0C214] interacts with 4 human partners:{Q9UI10;P49770;Q14232;Q9BV20}
9115 Pathogen[ P03346] interacts with 4 human partners:{Q9BV20;Q14232;P49770;Q9UI10}
9116 Pathogen[ Q85601] interacts with 4 human partners:{P49770;Q9BV20;Q14232;Q9UI10}
9117 Pathogen[ P14079] interacts with 3 human partners:{Q9UI10;Q9BV20;Q14232}
9118 Pathogen[ P03383] interacts with 4 human partners:{Q9UI10;P49770;Q9BV20;Q14232}
9119 Pathogen[ P03410] interacts with 4 human partners:{Q14232;P49770;Q9BV20;Q9UI10}
9120 Pathogen[ P14075] interacts with 4 human partners:{Q9BV20;Q9UI10;Q14232;P49770}
9121 Pathogen[ P0C206] interacts with 4 human partners:{Q9BV20;Q14232;P49770;Q9UI10}
9122 Pathogen[ P03363] interacts with 3 human partners:{Q9UI10;P49770;Q9BV20}
9123 [Cluster 830]GO:0004815+F molecular_function [name] aspartate-tRNA ligase activity
[def] "Catalysis of the reaction
9124 Pathogen[ Q2Q067] interacts with 2 human partners:{Q6PI48;P14868}
9125 Pathogen[ P0C214] interacts with 2 human partners:{P14868;Q6PI48}
9126 Pathogen[ P03346] interacts with 2 human partners:{P14868;Q6PI48}
9127 Pathogen[ Q85601] interacts with 2 human partners:{P14868;Q6PI48}
9128 Pathogen[ P14079] interacts with 2 human partners:{P14868;Q6PI48}
9129 Pathogen[ P03383] interacts with 2 human partners:{P14868;Q6PI48}
9130 Pathogen[ P03410] interacts with 2 human partners:{P14868;Q6PI48}
9131 Pathogen[ P14075] interacts with 2 human partners:{P14868;Q6PI48}
9132 Pathogen[ P0C206] interacts with 2 human partners:{Q6PI48;P14868}
9133 Pathogen[ P03363] interacts with 2 human partners:{P14868;Q6PI48}
9134 [Cluster 831]GO:0031078+F molecular_function [name] histone deacetylase activity
(H3-K14 specific) [def] "Catalysis of the reaction
9135 Pathogen[ Q2Q067] interacts with 10 human
partners:{P56524;Q9BY41;Q9UKV0;Q13547;O15379;Q9UQL6;Q969S8;Q96DB2;Q92769;Q8WUI4}
9136 Pathogen[ P0C214] interacts with 10 human
partners:{Q13547;Q969S8;Q96DB2;P56524;Q92769;Q9UKV0;O15379;Q8WUI4;Q9UQL6;Q9BY41}
9137 Pathogen[ P03346] interacts with 10 human
partners:{Q969S8;Q96DB2;O15379;P56524;Q92769;Q13547;Q9BY41;Q8WUI4;Q9UKV0;Q9UQL6}
9138 Pathogen[ Q85601] interacts with 10 human
partners:{Q969S8;Q9UKV0;Q96DB2;Q9BY41;Q9UQL6;Q92769;P56524;O15379;Q13547;Q8WUI4}
9139 Pathogen[ P14079] interacts with 9 human
partners:{Q9UQL6;O15379;Q96DB2;Q969S8;Q8WUI4;Q9UKV0;Q92769;Q9BY41;P56524}
9140 Pathogen[ P03383] interacts with 9 human
partners:{Q9UQL6;Q92769;O15379;Q13547;Q9BY41;Q9UKV0;P56524;Q8WUI4;Q969S8}
9141 Pathogen[ P03410] interacts with 10 human
partners:{Q9UKV0;Q9BY41;Q8WUI4;Q9UQL6;Q969S8;Q92769;O15379;P56524;Q13547;Q96DB2}
9142 Pathogen[ P14075] interacts with 9 human
partners:{Q9BY41;Q969S8;P56524;Q9UKV0;Q13547;Q92769;O15379;Q9UQL6;Q8WUI4}
9143 Pathogen[ P0C206] interacts with 10 human
partners:{Q92769;Q96DB2;Q9UKV0;Q13547;O15379;Q8WUI4;Q9BY41;P56524;Q969S8;Q9UQL6}
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- 9144 Pathogen[ P03363] interacts with 7 human  
partners:{Q9BY41;O15379;Q969S8;Q9UQL6;Q9UKV0;Q13547;Q8WUI4}
- 9145 [Cluster 832]GO:0016787+F molecular\_function [name] hydrolase activity [def]  
"Catalysis of the hydrolysis of various bonds, e.g. C-O, C-N, C-C, phosphoric anhydride  
bonds, etc. Hydrolase is the systematic name for any enzyme of EC class 3." [ISBN
- 9146 Pathogen[ Q2Q067] interacts with 280 human  
partners:{Q86W56;Q92900;P78346;Q8TCS8;Q9BU02;Q9Y5K5;O14734;Q8IXJ6;Q9HBH1;P53370;Q96HA  
8;Q9Y2M0;Q9H2U2;P54252;Q8IU60;Q9Y305;P40306;Q96SD1;Q9H008;P56524;Q93009;Q9BY41;Q9H0C8  
;Q96NU7;Q15631;Q99502;Q5D1E8;O00303;P55265;Q9Y4P1;Q99638;Q6ZVK8;Q6ICB0;Q96LI5;O75818;  
Q6PJP8;Q8WY54;Q92889;Q8IZH2;Q8NCE0;P49959;Q9UKV0;Q99575;Q08209;Q8IZD4;A6NK39;Q8N0Y7;Q  
16775;Q9Y2L1;Q14674;Q9NPI6;Q86TX2;Q99497;P30793;Q9UDY8;Q9BUL9;P28072;Q9Y6E7;Q9ULC6;O9  
5243;P51531;Q99708;Q9Y2J8;O00167;P36639;Q9NRR4;P33316;O00743;Q9UIF7;Q7Z2E3;P36543;Q15  
181;O95336;Q96C86;P62140;Q969S2;Q13547;P38919;A5LHX3;O60930;Q9H777;Q86Y79;O15379;Q96S  
55;Q9UNH5;P49789;O00148;Q9UBQ0;Q6ZRS2;P25787;Q9NQE9;P67775;Q13838;O95551;Q9NTG7;P3893  
5;Q63HM1;Q8NFI3;P30304;O15355;Q92905;P35573;Q9BV47;Q14790;O95848;O14829;Q14240;Q504Q3  
;Q9GZR1;Q9Y3E5;Q86TP1;P28065;O14818;P26196;Q8N6T7;P27695;Q9GZR2;Q8WVY7;Q8IXW5;Q12972;  
Q9UQL6;O75884;Q9UHI6;Q99504;Q9BSV6;P29372;P62714;O75817;Q9BYK8;P30307;A4GXA9;Q969S8;P  
52758;Q9H2W6;P60900;Q96DB2;Q86US8;Q9BSH5;P55212;Q9BQ83;Q92539;Q86T82;Q15102;Q8N3C0;P3  
6873;Q9NUW8;Q92562;Q92769;P28062;P09467;P54278;Q9UQ84;P18669;Q16719;P78345;O43598;Q96  
DE0;Q9Y5B0;P25788;Q08211;P51532;P42575;Q9H4L7;P62136;Q8TF46;Q12873;Q9NX46;Q9GZX7;P257  
86;Q9BRX2;P46100;Q96DG6;Q9P2I0;O15527;Q8TEA8;P53041;Q03468;Q8WUI4;P13984;P12956;Q9H0W  
9;P50570;Q9UKV8;P39748;Q8N1Q8;Q3L8U1;P15259;Q969H6;O43809;Q92499;O95476;Q96IV0;Q9BQ69  
;O95865;P78549;Q9ULW8;P07738;Q9H816;Q9H9L3;P28074;Q7L266;P25789;Q93008;Q9HCE1;Q14839;  
P28838;P35813;Q13569;Q86UW6;Q9UNY4;Q9HC62;O75688;Q9UM07;Q9UI32;Q9H9J2;O14646;Q96NY9;Q  
9BYX4;P20618;Q8N490;P48147;Q9ULG1;O94925;Q96MB7;P25205;Q9HCK8;Q9BQ65;Q96AY2;Q9UKF6;P2  
8070;Q86WJ1;P28066;P30305;Q96FN9;Q9BRQ3;Q9BQ52;Q99436;Q8TAA3;P13010;P49593;Q93075;P28  
370;Q8WWR8;O95453;P49721;P13051;O75792;O95707;P49720;P27815;Q9NP77;P60510;A2A288;Q928  
41;Q9BRJ7;Q9HCL6;Q13867;Q9NTK5;O14595;Q96HI0;Q8IYD8;O60671;Q96IU4;P60842;Q9ULM6;Q1682  
9;Q9H633;Q14194;O95571;Q53HV7;Q9GZU7;Q6TGC4;P28715;O76075;A8MSY0;Q14693;O15297;O95059  
;Q9NRC8;Q9NQR4}
- 9147 Pathogen[ P0C214] interacts with 365 human  
partners:{Q9BSH5;Q8WWR8;O95551;O95243;Q96P26;Q9HBH1;Q14527;O75608;Q13907;Q8N1G1;O7581  
8;O60346;Q9BU02;P25789;Q9H633;P27695;Q9BUL9;P35813;Q9H9J2;Q96C86;P26196;Q9BQ65;Q96HI0  
;O14595;P30307;Q9BQ83;P62140;A6NK39;P28062;Q9H4I8;O95453;Q9BV47;A5LHX3;Q96S55;Q13547;  
Q8TEA8;Q8NFI3;P49959;O00148;Q9H816;Q16775;P49902;Q9UKF6;P28838;Q16740;Q96065;O15194;Q  
86Y79;P60842;P15259;Q96IV0;P49789;O14829;Q969S8;Q92889;P54922;P13010;Q969H6;Q7L266;Q9  
BXS1;Q9NPI6;Q96GK7;Q96DB2;Q12873;P27815;Q92900;P33316;Q92841;P55212;Q9Y2L1;Q9H0S4;O14  
818;O00167;Q504Q3;Q96SD1;Q9UDY8;Q86UW6;Q13867;Q9H227;Q92560;P55265;Q9Y4P1;P53370;O150  
56;Q9Y305;Q53HV7;Q9BRX2;Q96NY9;Q86TX2;O43865;Q99708;Q6ZRS2;Q9BRQ3;P78345;Q6PII5;P5652  
4;O75884;Q3L8U1;Q7L2E3;Q8TCD5;Q9H777;Q9UI32;Q8IXW5;Q9ULG1;Q9BYX4;P40306;Q86W56;P36543  
;Q99497;Q9Y2M0;P68402;Q8N819;Q14194;Q9H4L7;Q9Y3R4;P38935;A8MSY0;Q9GZU7;Q9NPB8;Q86UY8;  
P35573;Q9HCE1;O75792;Q92562;P48147;Q9Y3Z3;P25205;Q9Y3E5;Q8TF46;Q93008;Q9H089;O95571;Q  
9H0W9;P60510;Q9BYK8;Q9Y5K5;Q9BSV6;O95059;Q8IZH2;P62714;O95989;O60825;Q8N3C0;O95707;Q6  
PJP8;Q14197;Q15102;Q9UM07;P28066;P28715;O00303;Q96MB7;Q9HC16;P18545;Q9ULM6;Q99575;Q14  
566;A2A288;P30793;Q86US8;Q92698;O43809;P09467;O75817;O43681;Q9ULC6;P28370;Q8N1Q8;O145  
31;Q92905;Q6TGC4;Q6ICB0;Q92539;Q96AY2;Q9NQR4;P49720;P28074;O95865;Q9NTG7;P46100;P3891  
9;Q63HM1;Q9BQK8;Q9BQ52;Q6P587;Q9UNY4;O95336;Q7Z2E3;Q9UIF7;O00154;Q9NVP1;Q08209;Q92769  
;Q14240;Q9P2I0;Q8N490;Q6P1N9;Q9UKV0;Q8TCS8;P25788;Q9ULW8;P62136;Q86TP1;Q9HCK8;Q8WVY7;  
O95278;P42574;P36639;P67775;O60264;Q9UHI6;Q9H9L3;O60930;O43598;P07311;Q99504;Q9NRR4;Q  
8IV48;Q93009;P30305;O15379;P25786;A4GXA9;Q9UHY7;Q8N6T7;Q16829;Q9UNH5;Q17R31;Q6NVY1;Q8  
WTP8;P53041;Q8IU60;P13984;Q93075;P28072;Q9UKV8;Q9P0J1;Q8TAA3;O60671;Q07343;Q92499;O95  
476;Q9NQE9;Q9BQ69;O15297;Q9Y2J8;Q9H2U1;Q53H82;Q9NUU7;Q15631;Q96IU4;Q99436;Q8N3J5;Q9UB  
Q0;Q8WY54;O94925;Q9C0D7;Q9GZR2;P39748;P25787;P36873;Q13956;Q9GZR1;O14734;Q8IXJ6;Q1361  
5;P23526;Q96NU7;Q8N0Y7;A6NG73;Q9Y5B0;Q9GZX7;Q9UMR2;Q3LIE5;P78549;P49593;Q9HC62;P29372  
;Q08211;Q9UQ84;Q9H2W6;Q12972;O76083;Q8IYB7;O00743;Q96GD0;Q9NUW8;P52758;Q9NPT3;O95848;  
P16118;A4D2B0;Q9BRJ7;P50570;O75688;P54278;Q9H008;P35998;P60900;Q15181;O14646;Q9NRC8;O  
15527;Q8WUI4;P07738;Q13569;Q96LI5;P55210;Q96FN9;Q9H0C8;Q6L8Q7;Q99638;P48454;P51531;Q5  
D1E8;Q13838;P30304;Q9NTK5;P78346;O00757;Q9Y6E7;Q9Y2T3;P31939;Q9H3M9;Q9NY33;Q9NP77;Q8I  
YD8;P11586;Q86WJ1;O76075;Q5TA45;Q9P2J9;Q03468;Q9UQL6;P28070;P42575;P12956;Q96DG6;Q8NC  
E0;Q14839;Q9Y3B8;P54252;P20618;P13051;Q96HA8;Q6ZVK8;Q16719;P49721;Q9NX46;P51532;P5507  
2;Q9H857;Q9H0P0;Q96DE0;P17980;Q86YG4;Q8IZD4;Q9NS39;Q14693;Q14790;Q9BY41;P16278;Q3I5F7  
;Q99502;Q14674}
- 9148 Pathogen[ P03346] interacts with 365 human  
partners:{P62136;Q9Y3Z3;Q969S8;P25787;Q9BXU7;Q9HBH1;Q9ULC6;P63119;Q9H2U2;P43378;P4606  
3;Q9NRR4;P28070;Q9H0C8;Q504Q3;Q9ULM6;O00743;O60346;O75608;Q9NRZ9;Q93009;Q9GZR1;P38935  
;P35813;P25789;P28715;P50570;Q92560;O95677;A2A288;P12956;P78346;O14829;Q9Y4P1;Q6ICB0;  
P83111;Q9NPI6;Q6TGC4;O95551;Q8WY54;Q96SD1;P46100;Q9GZR2;Q8TEA8;Q8IXO6;Q9H3M9;Q86US8;P  
55265;Q96C86;Q8NFI3;P23526;Q9H9L3;Q9H633;O43598;O00167;Q96DB2;Q9NQE9;P52758;Q9UKF6;Q9  
3008;O60930;O15379;Q6ZUV0;P28072;Q8IXW5;P25788;O95336;P51532;P28074;Q9UMR2;P49721;Q92  
841;Q9Y2J8;Q9UDY8;P07992;P42575;Q8TF42;Q9NS39;O14818;Q9UK59;Q99708;Q14527;Q9ULG1;O958  
48;Q99436;Q7L266;Q96IU4;P30304;Q8TD26;Q9H3S7;P56524;Q9NUW8;P13010;P07738;A5LHX3;Q969H  
6;Q63HM1;O95707;P36543;P49789;P38919;P36639;Q7L2E3;A8MSY0;Q8IXJ6;P28062;Q9NVP1;Q96NU7  
;Q96HM7;O95630;P42574;Q9H2W6;Q86TX2;Q9UIF7;Q96AY2;P62714;P67775;O14646;Q9UBQ0;Q99638;  
Q99502;P09467;Q9H0W9;Q92562;Q08211;P35573;Q3I5F7;P20618;Q92698;P49593;A6NK39;P55212;Q  
96DG6;P60842;P55072;O15194;Q9H1Q7;Q86T82;Q9BUQ8;Q9Y3E5;Q9BUL9;P30305;Q8IYB7;Q9Y6E7;Q8  
N3C0;Q9BV47;Q8IZH2;O00303;O15056;Q96NY9;O95453;Q8NFI3;Q9H2U1;Q8N490;P53370;Q9Y5B0;Q86

Y79;Q9BQ65;Q7Z333;Q8IU60;Q9UI32;Q14566;P45381;P25205;Q969S2;P16278;Q9UHP3;O75817;Q92499;Q53HV7;Q9NQR4;Q9H4I8;P18669;Q14694;Q9BRJ7;P10144;Q9NTK5;P51784;P13984;Q13609;Q96S55;Q9GZU7;Q16667;P17706;Q8WVB3;Q8N0Y7;O75884;Q15631;Q92539;O75643;Q15102;O14531;Q03468;Q92769;P49720;P28065;Q96DE0;P27815;Q86UV5;P36873;O60264;Q13547;Q8TCS8;P13051;Q9HCK8;Q9UHI6;P29372;P60900;Q9BY41;O15297;Q9Y305;Q9Y2L1;P33992;O75818;Q5D1E8;O75604;P25786;Q14240;O95865;O75688;Q13838;P53041;Q9UNY4;Q9UHY7;Q8WUI4;Q86UW6;Q9H777;Q16719;Q9ULW8;Q8N6T7;Q8WVY7;Q9UKV8;Q17R31;P49959;Q99497;Q6ZRS2;P42285;Q16829;Q99575;P28066;O95476;O43809;Q9BYX4;Q9BQ69;Q14562;Q92905;P33991;P78549;Q9NUU7;Q13867;Q9UM07;P78345;Q92889;O76075;O94925;Q8TAA3;Q96HA8;Q9BU02;Q9UKV0;P55211;Q14790;Q15181;Q9HC62;Q9H0S4;Q9UQ84;Q13569;O14734;Q86W56;O95243;P54278;P10768;P26196;Q9NRR4;P15259;O15355;Q8WWR8;P48454;Q8IYD8;P48147;P28370;Q7Z2E3;Q9P2I0;P55210;O60671;Q12873;Q6PJP8;Q96HI0;P24855;Q9P2D1;Q96FW1;Q9BQ83;P62140;Q96IV0;P27695;Q9BYK8;Q8IZD4;Q6GQQ9;O94782;Q6ZVK8;O43865;O00148;Q13283;P39748;P51531;Q16775;Q9NP77;Q08209;Q3L8U1;O95278;Q86WJ1;Q14194;Q86X76;Q96FN9;Q9Y2R2;Q9HCE1;Q92900;Q9H816;Q99504;O15527;Q9Y2M0;Q8N1Q8;Q9BRX2;P24666;O95059;Q14674;Q9UBZ4;Q9BQ52;Q9NTG7;Q93075;O14595;Q96AB6;Q12972;Q96LI5;Q9BSV6;A4GXA9;Q9Y5K5;Q9NRC8;Q9UQL6;Q8TF46;Q86XP3;Q96MB7;P60510;Q8TDQ7;Q9H008;Q9H0E7;P40306;A6NG73;O95571;Q9UNH5;P30307;Q9NX46;Q14839;Q8NCE0;P54252;Q9H9J2;Q9H4L7;Q9UBP0;Q9BSH5;Q14693;O75792;Q9NPJ3;Q86TP1;P33316;Q5TA45;Q969T7}

9149

Pathogen[ Q85601] interacts with 325 human

partners: {Q5TA45;Q9UBZ4;P10144;P28066;Q9HCE1;Q969S8;P60900;Q99497;Q9HBH1;Q9BUL9;Q9NRC8;Q9BQ52;Q9Y2M0;Q9Y5T5;Q15527;O43598;Q9UKV0;O60346;Q9NTK5;O75688;Q96DB2;Q9ULW8;O94925;P78346;O14829;Q9H0E7;A6NK39;Q9H0S4;Q99575;P10768;Q9NPI6;Q93009;Q8IYD8;P25787;Q9BY41;Q14194;Q9UQ84;P49789;O95059;P62714;Q969S2;Q9UQL6;P13051;Q3L8U1;Q9P2D1;Q9GZU7;Q14240;O15194;Q9H0C8;Q9UBP0;P25788;P52758;P38935;O95677;O95336;P49593;Q16719;Q8TEA8;Q9UM07;Q9BU02;Q9H2W6;Q9UDY8;Q9HC16;Q14790;Q92560;Q9Y4P1;Q17R31;Q99708;A4GXA9;Q9HC62;Q8WVY7;Q86TX2;P18669;O95989;Q7L266;P27815;O60825;Q16829;O00148;O43865;Q969H6;Q9H3M9;Q6TGC4;Q9UMR2;Q99504;P36639;Q7L2E3;Q9GZX7;Q9NRR4;Q96IU4;Q96AY2;O75792;P33316;O95243;O00757;P49959;P30304;O14646;O00303;Q14674;Q9H0W9;O76075;Q92562;Q92499;Q92698;Q08211;P48147;Q13867;Q9Y3E5;Q93008;Q9H008;Q9BSV6;Q9H089;O95278;Q504Q3;Q9H777;P16118;Q96FI4;P15259;Q9Y2L1;Q8IYB7;Q9Y6E7;P30793;Q9BV47;Q8IZH2;P53370;P54252;Q08209;O95707;Q96NY9;Q92889;P38919;Q96C86;P51531;Q9NP77;O14734;P25789;P28715;Q63HML;Q9UNH5;Q14566;P30305;O75817;O75818;O43681;P20618;Q9NQR4;Q96LI5;Q9Y305;Q03468;O15355;P51532;Q9BRJ7;Q86TP1;P30307;Q6ICB0;P13984;Q8N1Q8;P35573;Q6PII5;P25205;P40306;Q8IXJ6;Q9H2U2;A2A288;P62136;Q13838;Q9Y2J8;Q96MB7;Q9Y5B0;Q92769;P49720;Q9NVP1;Q9NQC7;P42575;Q86Y79;Q96DE0;Q96SD1;O95453;P36873;Q12972;Q8TCS8;Q12873;Q99502;P28062;Q9UHI6;P49721;Q92905;Q53HV7;Q9H4L7;P50570;O15297;Q9NUU7;Q9P2I0;Q9Y5K5;Q86UY8;Q9BYX4;P25786;Q9ULC6;Q8I2D0;Q6ZRS2;Q9ULM6;A8MSY0;Q9NUW8;Q8IXW5;Q9BSH5;Q9BYK8;P53041;P28072;P60842;Q8N6T7;Q9UKV8;Q9GZR2;Q9ULG1;Q13569;O75884;P28065;O95630;P67775;O95476;P55265;Q99436;Q9BQ69;Q6ZVK8;P28070;P09467;Q9H9L3;Q86T82;P26196;Q86US8;P78345;Q9HCK8;Q8WY54;Q8TAA3;Q9C0D7;O60671;Q96S55;P56524;P60510;Q9UIF7;P54278;O15379;Q9UBQ6;Q9UHY7;P28370;Q7Z2E3;P23526;O00743;Q6PJP8;Q86WJ1;Q96HI0;Q13547;Q96DG6;Q9BQ83;Q8TD20;P62140;P28074;Q9H0P0;O60930;O95848;P33992;P55212;Q86UW6;Q3LIE5;Q8N0Y7;A5LHX3;P39748;Q8WUI4;Q15181;Q9UI32;Q16775;O60264;P78549;P07738;P19447;P35813;Q14527;Q9H9J2;O00167;Q9H633;Q92900;Q9H816;O95571;Q96HA8;Q9BRX2;Q9NTG7;O14818;P48454;Q93075;O14595;Q9GZR1;P27695;Q13907;Q9UKF6;Q92539;Q9UNY4;P46100;Q8TF46;Q99638;Q86W56;Q95551;Q15631;A6NG73;Q6L8Q7;Q5D1E8;O43809;Q9NQE9;Q9NX46;P55210;Q14839;Q8NCE0;P13010;Q96FN9;P12956;Q96IV0;Q8N490;O95865;Q8N3J5;Q15102;Q8IU60;Q8N3C0;Q14693;P29372;P36543;Q9H2U1}

9150

Pathogen[ P14079] interacts with 462 human

partners: {P36543;Q5SRI9;Q9UQL6;O60671;P28838;O43809;Q9NY59;Q6P1N9;O15442;O15194;P28065;O15379;Q8NBV4;Q99436;P15259;Q96AB6;Q3LIE5;P52758;Q8IV48;P48454;P78346;Q9BXS1;Q9H857;O94830;P62333;Q8TEA8;Q9BRX2;O14773;Q6P587;Q9H0P0;Q96FN9;Q9UKV8;Q9Y3E5;Q92562;P49753;Q8TAT5;Q9Y3B8;P16278;Q9BQK8;Q9H0S4;O14841;O76075;P60842;Q5D1E8;Q9ULG1;Q9UIF7;Q8IZD4;Q96KR4;P54922;Q9BYK8;Q9NPB8;P41238;O75817;Q13609;Q99502;Q96KP4;Q9NUQ7;Q9BYX4;Q6ICB0;P28715;P49593;Q9NRR4;O00303;P30307;Q14566;Q8N490;P53041;Q8WZ82;Q14693;Q5VSG8;Q96NY9;Q9Y5B0;Q9ULC6;Q96DB2;Q9Y305;P14621;O15297;Q8NDY3;P40066;Q96IV0;Q9H3M9;Q96P26;Q96HI0;Q8TCD5;Q9UKF6;Q9NXE4;Q8IYD8;Q8IU60;P31939;P36873;P13010;P40306;P31941;Q8N8W4;Q16829;Q86Y79;Q96NU7;Q02083;Q13907;A8MXV4;Q969T7;Q9UNY4;Q9NPI6;Q6P988;Q9UBZ4;Q9HCE1;P28074;P28370;P07311;Q7L2E3;O75792;P20933;A8MSY0;Q9H4L7;Q969S8;Q9H777;Q8WUI4;Q8WV74;Q8NDH3;P16298;Q63HML;P48147;Q9BSV6;P54802;Q6ZT21;Q9NX46;P54252;Q96LI5;Q8TDQ7;P51532;Q99497;P54278;P35475;Q96BW5;O14646;P29372;Q6PCB6;Q86TP1;O43598;P49720;Q9BU70;O00487;Q9H008;P62136;Q86TLO;P25787;Q5VTU8;Q9UKK9;Q92698;Q9NTJ4;Q9NXJ5;P49184;Q9HC16;Q9H773;P51531;Q9UKV0;O94919;Q96MI9;Q86US8;Q13838;Q9GZR2;Q6ZRS2;Q8NEL9;O60346;Q96G61;Q9UPW5;P29144;Q96C86;A5LHX3;Q9NS39;Q14674;Q9Y303;O95848;Q9BQ65;Q9Y2B2;Q8TF46;Q8NFI3;Q8NCE0;O15527;Q9UHI6;Q14240;O00115;P33998;P78549;O95707;Q9Y2T3;Q86YG4;O75608;P30793;P33316;Q08211;O95453;Q96AY2;Q16740;P30304;Q14249;Q96HA8;Q92539;Q4J6C6;Q7L8Q7;Q9Y4P1;Q8N6M5;Q96GD0;P55212;Q9UBQ5;P07738;Q7L266;P60280;Q12873;O95059;P50570;Q9NPJ3;A4GXA9;Q8WVY7;P20618;P46100;Q9ULW8;Q9BRJ7;P35813;Q9Y2J8;Q96MB7;Q8TAA3;Q8IXW5;Q96DG6;Q3I5F7;A4D2B0;Q9H1Q7;Q8N1G1;P0C025;Q9H2U2;Q9P2D1;Q8TD26;O43865;Q15631;Q9GZX7;P18545;Q5TFE4;O95571;Q8IYB7;Q8WY54;P12956;Q8I2H2;Q9NUW8;Q9H790;Q8NCG7;P54803;Q9Y5K5;Q8N8Q3;Q9HC62;Q14790;O94925;Q8N661;Q9Y3Z3;P28062;P60900;Q96HD9;O00519;Q9H0W9;Q32M88;Q13956;P55265;Q16719;P36639;Q92769;O43681;Q9H2W6;O14829;Q9BY32;P26196;Q8N6T7;O95989;Q86T03;Q99708;P55210;Q9BSH5;Q15102;Q96S55;Q92560;O60502;Q13867;O95243;O14734;Q9NY33;Q6ZUV0;Q400G9;Q86UW6;Q9HBH1;Q8NFP7;P62140;Q9H9L3;Q86WJ1;Q9NRR4;P45381;Q99575;Q9H0C8;P24855;Q86TX2;P35573;Q9BV47;P53370;Q8NDL9;O00148;Q969S2;Q13510;Q9BY41;P16930;Q9BUL9;Q96FI4;Q9HCK8;O14818;Q92889;Q86UY8;P27695;P49721;Q92905;Q9BU02;Q9H633;Q9BQ52;Q14194;Q9UI32;Q9Y2M0;Q9Y2L1;O60264;Q96GK7;P46926;Q93075;O95336;O95551;P49902;Q9NP77;Q9H6P5;Q8WWR8;Q9NZ20;Q15181;Q68D91;Q9NSU2;Q9NTK5;Q9Y3R4;Q12972;P33992;Q8IXJ6;Q5W0Q7;Q96IU4;Q53HV7;Q16775;Q8N442;Q9H9J2;P17050;Q96PE3;Q9BXI3;P2781



5;Q14839;A6NFU8;Q8WZ79;Q96AZ6;Q7Z6Z6;P13984;O75818;Q9UNW1;Q99487;Q96SD1;Q5HYM0;Q6GMR7;P62191;Q9UBQ0;P60510;Q92900;Q86W56;Q6TGC4;Q92499;Q96FC9;O95476;Q99638;O75688;Q15493;P56381;Q5TA45;Q99504;Q53H82;Q03468;P18669;O75884;P38935;A6NG73;P23526;P30305;P49773;Q9ULM6;P43686;Q9BRQ3;A2A288;P78345;P42575;P25788;P09467;Q9BQ83;O00167;Q9BXW7;Q14197;A6NK39;Q6PJP8;P28066;Q86X67;Q13569;Q8WW27;Q9UM07;P56524;O60930;Q9GZR1;P49789;Q9NRC8;Q9Y530;O15355;Q96HM7;Q9BSY9;Q9NTG7;Q9NVP1;Q7Z2E3;Q504Q3;P83111;Q9NZC7;Q17R31;Q9H816;Q9HA T2;Q8WVB3;Q08209;Q9H300;P25205;Q9NZJ9;Q9UQ84;P10144;Q9NQR4;P17405;Q9NCR10;P17980;O15327;Q96DE0;Q03154;Q8N0Y7;O00743;Q9NQE9;P07992;Q8TCS8;Q96FW1;P28072;P19447;Q8N1Q8;Q9UNH5;Q96EY9;P13051;Q8IYS1;O95865;Q9UK59;Q9H089;P39748;Q3L8U1;Q9P2I0;Q9GZU7;Q9C0D7;Q8WXI4;Q6P2I3;Q8WTP8}

9151 Pathogen[ P03383] interacts with 225 human

partners: {P78345;Q7Z2E3;A6NG73;P30307;Q9NRR4;Q6ZVK8;Q99504;P62140;Q9HBB1;Q9BRJ7;Q9Y2L1;Q14839;O60671;Q9H2U2;P07311;A6NK39;O94925;P13010;O95865;Q9Y305;P55212;O00167;Q9H0S4;P54278;Q9H0C8;Q8N6T7;Q9H777;Q8IU60;Q93075;P25789;P53370;P60900;P49789;P36639;P54922;Q9BU02;Q9UQL6;O75792;Q969H6;Q96MB7;Q9H633;Q13838;O15527;Q99575;Q9NTK5;Q53HV7;Q8N1Q8;A4GXA9;P40306;Q96DE0;Q9H2W6;Q92905;Q9Y4P1;Q9BQ65;P25205;P18669;P28370;Q12972;P30304;P62714;Q5D1E8;P09467;Q9BRQ3;Q92841;Q9UHI6;Q8IXW5;Q63HM1;Q6PJP8;Q8NCE0;P38919;P28838;P49721;O14646;O95059;A8MSY0;P35573;Q9H1Q7;O43598;Q8TCS8;Q9BRX2;P67775;P26196;O15297;O14734;Q96S55;Q15631;Q9ULW8;P35813;P20618;Q9UKF6;P48147;Q9Y3E5;A2A288;Q9NX46;Q9BQ52;P36873;P62136;O95707;P52758;Q16719;Q7L266;P07738;P46100;P29372;O75817;O95243;Q12873;Q9BSV6;Q9H816;P54252;Q9NTG7;P13984;Q96FN9;Q86W56;Q14674;Q96HI0;Q9H0W9;Q03468;Q9GZU7;O75884;Q86US8;Q92769;Q6ICB0;Q6TGC4;Q96AY2;Q9UNH5;Q9NPI6;Q13867;Q9H9L3;Q9UM07;P51531;O75818;O15379;Q9Y6E7;P25786;Q96HA8;P53041;Q9Y5K5;Q8N0Y7;Q9Y2M0;P28072;O15355;Q9UKV8;Q9ULM6;Q13569;Q9Y2J8;P28065;Q16775;Q8IZD4;Q9BSH5;Q9NQR4;P28066;Q13547;O43809;Q9BQ69;Q9BY41;Q3L8U1;Q99708;Q96C86;Q15181;Q99638;Q9HCK8;Q8WY54;Q86Y79;Q9UKV0;P56524;Q9NUW8;Q86TP1;Q9H9J2;Q9HC62;P55265;Q8WWR8;O60930;P51532;Q9P2I0;Q9Y5B0;Q9H3M9;P33316;P38935;P28074;P27695;O95551;P49720;Q8TAA3;Q92499;P36543;Q8WUI4;P28062;Q9BUL9;Q96IV0;P13051;O95989;Q9UBQ0;Q9ULC6;Q8N490;Q9HCE1;O95453;O95571;Q96HM7;O00743;O14818;P78346;Q92900;Q99436;Q92539;Q96LI5;Q9BYK8;Q9UNY4;P15259;Q9BQ83;Q86UW6;P60510;P28070;Q9GZR1;Q969S8;Q9NRC8;P12956;Q8TEA8;O00148;P25787;Q14693;O95848;P25788;Q9H008;Q96NY9}

9152 Pathogen[ P03410] interacts with 461 human

partners: {Q96LI5;Q400G9;Q9Y305;P54803;Q13838;Q9BQK8;Q9UKV0;Q96FW1;Q92562;P62714;Q5TA45;Q9H3M9;Q8IXJ6;Q8IU60;P28070;P49959;Q9Y2L1;Q96HD9;Q17R31;Q96P26;O00519;P25205;P10768;Q8WTP8;Q96FI4;Q8TDQ7;Q12873;Q96PE3;Q9NTG7;Q8NFP7;O15355;Q9UNY4;Q9BU02;Q99708;Q96EY9;P10144;A4D2B0;Q9GZR2;Q9Y3B8;Q8TCS8;Q9H4L7;P35813;Q6L8Q7;P49184;Q8NCG7;Q8N3J5;Q9BY41;Q8NF13;Q7L266;P78346;Q9UKV8;Q8N3C0;Q5VSG8;Q99497;P04066;Q8TEA8;Q9BU70;Q96AB6;Q96AY2;Q9H816;Q8IV48;O15327;Q9UPW5;Q86T03;Q96MB7;Q92698;P25786;Q8IYD8;P78345;Q02083;Q8NDH3;Q08209;Q92900;Q9BQ50;Q9Y4P1;A4GXA9;P36639;Q9NVP1;Q8N661;Q9C0D7;P07992;P60510;Q99502;Q9HBH1;Q99575;P60900;Q9UM07;P16118;Q9Y2B2;Q9UML6;P42575;P35998;O60502;Q9NPI6;Q8N6M5;Q68D91;Q13609;Q9H857;Q9BXW7;Q9BYK8;Q8N6T7;Q9NTK5;P54802;O14646;Q9H0W9;P48147;Q9GZU7;P41238;Q16719;Q6P1N9;O76075;O75792;Q9H773;Q86Y79;Q8WY54;Q8TF46;Q9UKK9;P62136;Q92905;Q9BYX4;Q13867;Q9NPP3;Q9ULG1;Q8NHP7;Q9BQ52;P35573;Q5HYM0;Q13956;Q8WW27;Q86YG4;O00148;P16278;Q96HI0;O95865;Q8TAA3;P45381;Q6PCB6;A2A288;Q8NDY3;Q9NPF7;P49721;P54252;Q6NVY1;P50570;Q92889;Q93075;Q96S55;Q9GZR1;Q86TP1;Q9UK59;Q9HAT2;P39748;Q53H82;Q6P2I3;Q9UNH5;Q9NSU2;Q9H0S4;Q6P988;Q96SD1;Q9H2U2;P30793;Q96NU7;Q03468;P55265;Q86X76;Q9BQ83;A5LHX3;Q9Y530;P28715;Q8TAT5;Q9BSV6;P78549;P09467;Q9H9J2;Q6ZUV0;Q14674;Q9NRR4;Q99436;P28838;Q53HV7;O94925;Q9H0C8;Q8N490;O00757;Q9NXE4;P33992;Q6PII5;Q14693;Q8WUI4;P46926;O60930;Q9BY32;Q8WXI4;O14841;Q86UW6;Q9NXJ5;Q8N442;Q9UQL6;O75688;Q9UBQ0;Q5SRI9;Q9NZJ9;O95243;Q9NRX4;O43809;Q7Z2E3;Q9ULC6;P56381;Q9Y2T3;P40306;Q96GD0;P33316;Q9H790;Q9HC16;Q8IZH2;Q16829;O95848;Q86TL0;Q9UMR2;O95571;P12956;Q9UBZ4;Q6ZRS2;O95551;Q9BXI3;Q8IZD4;O14734;Q9NPP8;O00154;Q9NQR4;Q969S8;Q13510;P38935;O95707;Q63HM1;Q96KR4;O14531;P25787;Q9HC62;P49789;O15297;O95453;P49773;Q9NTJ4;Q6ICB0;Q92769;P48454;Q5VTU8;Q9NUU7;P62140;P07738;Q9P2D1;P18545;P53370;O75608;Q6PJP8;Q9BSH5;Q86UY8;Q9BRJ7;Q9BUL9;P30304;Q9P2I0;Q99638;O15527;Q92499;Q8WZ82;Q9BRX2;Q5D1E8;Q16775;O15379;P56524;Q9HCE1;O75818;Q96NY9;Q13569;P28062;Q96AZ6;Q8IX06;Q5TFE4;P19447;Q3I5F7;Q14197;Q9NUW8;Q96DE0;Q7L2E3;Q8N0Y7;O95989;P07311;Q9HCK8;O94830;Q9H089;Q8N1G1;P15259;O14818;A8MXV4;Q9H777;A6NFU8;P36873;P53041;O60671;P31939;P46100;P60842;Q9GZX7;Q9NZ20;Q99504;P51532;O00303;P38919;Q96BW5;Q9NRW3;Q9H008;Q8IYB7;Q9BRQ3;P23526;P18669;Q86W56;Q86WJ1;Q8N1Q8;Q6TGC4;O95476;Q86US8;Q8TCD5;Q9BQ69;P51531;Q9Y5B0;Q96IV0;Q9Y3E5;P25789;P24666;P49720;Q86TX2;Q15102;A6NG73;Q9UKF6;P31941;P63135;O60346;Q3L8U1;Q96C10;Q9NQE9;P27695;Q13547;Q9H0P0;O00167;Q8WVB3;P54922;P13010;Q9Y5K5;P13984;P49593;P20933;Q8N8W4;Q12972;Q9Y2J8;Q3LIE5;Q8WVY7;Q9UNW1;A6NK39;Q9H6P5;Q15631;Q13907;Q969S2;Q9H1Q7;Q8WV74;O00115;Q96FC9;Q9H2W6;P52758;P28072;P54278;P83111;Q9UI32;O95336;Q9Y3R4;P13051;Q9NX46;P49753;O15442;Q14194;Q8IXW5;Q9NRC8;Q969H6;Q9UQ84;Q8TD26;A8MSY0;Q9Y2M0;Q32M88;Q9BQ65;Q6GMR7;P30305;Q9Y3Z3;P16930;Q8NCE0;Q9NY33;O60264;P25788;Q96C86;Q96633;Q7Z6Z6;Q15181;Q16775;P67775;Q14566;Q92539;P55212;Q14839;Q9UHI6;P28066;Q15493;Q08211;Q96HM7;O43681;Q504Q3;P14621;O75817;Q86X67;Q96G61;P28065;Q9BV47;P27815;Q96DG6;O43865;Q96HS1;P30307;Q6NTF7;O00743;P29372;P36543;P24855;Q6P587;Q9H9L3;O43598;O75884;Q96IU4;O14829;O15194;P17405;P17980;Q8WWR8;Q9UIF7;P20618;P49902;Q96FN9;P28370;Q8NEL9;Q8NBV4;Q14240;Q14249;Q9BSY9;P28074;O95059;P55210;Q9ZLW8;P0C025;Q9NQ88;Q969T7;Q96GK7;Q96DB2;Q9BXS1;Q9H2U1}

9153 Pathogen[ P14075] interacts with 243 human

partners: {Q8N490;Q3L8U1;O95453;P13051;Q9BY41;O15297;Q7Z2E3;Q9HBB1;O14646;Q9NQE9;Q8N6T7;Q8IXW5;P35813;Q9ULC6;Q16719;P25788;Q9BSV6;P13984;Q92900;Q9NQR4;Q99504;P12956;Q96IV0;Q5SRI9;Q15102;P28066;O43809;Q9P2I0;Q9BQ83;Q96DE0;Q969S8;P49902;P55265;P4922;Q9UM07;Q9ULM6;A6NG73;Q8TAA3;P60900;P27695;P51532;Q9H0S4;Q9UNY4;O43598;Q02083;P26196;P55212;P49720;Q9Y5B0;Q8WWR8;Q9BRQ3;Q9BRX2;P36639;Q9NX46;P38935;P60510;Q86UW6;Q14839;O15527;Q5

3HV7;A4D2B0;Q9Y4P1;P56524;O60930;Q9HCE1;P18669;Q9UBQ0;O14734;Q9UIF7;Q96FN9;Q8TEA8;O60671;Q13510;Q8N1Q8;Q9H2W6;Q93075;A8MXV4;P62140;O00167;Q9UKV0;Q9NPI6;Q96FW1;Q9H9J2;Q96LI5;Q8IU60;Q9Y2J8;Q6ZVK8;P28070;Q9Y3E5;Q13547;P49721;O95571;Q9Y2L1;Q86Y79;P36873;P54252;P62136;Q9BSH5;O00743;Q6ICB0;Q9Y2M0;Q03468;Q9HOC8;Q96HA8;Q99638;Q9H777;O75817;Q9Y6E7;Q92499;Q96HI0;Q9NNTK5;Q96MB7;P16118;P46100;Q9UHI6;Q15631;Q86US8;Q8IZD4;Q92539;Q8NCE0;P28062;P28074;O95865;A6NK39;Q9NTG7;Q7L266;Q92769;P25205;P28065;Q63HML1;Q9BQ65;Q9BQ52;Q96NY9;Q9HC62;Q9HCK8;P51531;Q9H008;Q9C025;Q9H816;P25786;P78345;O14818;O95336;P78346;P53041;O15442;P35573;P28072;Q9NRR4;Q9ULW8;Q9UKV8;P28370;Q5D1E8;P30304;P33316;Q13867;P62714;P67775;Q9H2U2;P53370;Q9BQ69;O15379;Q9H9L3;Q9GZU7;O75792;Q86YG4;O95059;Q9H633;Q8WY54;O94925;Q8TCS8;P49789;P25787;P15259;Q92841;Q14674;O95243;Q96C86;Q9H3M9;Q6TGC4;O75884;Q9NRC8;Q96AY2;Q9UQL6;Q99502;P54278;P20618;Q86W56;P52758;P13010;Q8NFI3;Q96S55;Q12972;Q9BRJ7;P30793;Q8WUI4;A8MSY0;Q13569;P07738;O95848;P38919;Q9BUL9;Q9BU02;Q9UKF6;Q92905;P07311;Q13838;O95707;P40306;P29372;P28838;Q6PJP8;Q99708;Q99436;Q12873;P09467;Q9UNH5;O15355;P30307;O75818;Q9BYK8;Q9Y305;Q9H0W9;O00148;Q96NU7;Q9NUW8;Q8N661;Q8N0Y7;Q15181;Q16775;Q96HM7;Q99575;Q9GZR1;O95989;Q9Y5K5;A4GXA9;A2A288;O95551;Q14693;P25789;Q86TP1;Q969H6;P36543}

9154

Pathogen[ P0C206] interacts with 437 human

partners: {P27695;P33316;Q9NQC7;O43598;Q9H857;Q9H0S4;Q99436;P28062;P10144;Q96DG6;Q9BUL9;Q5SRI9;Q9H4L7;Q92769;P54278;Q92539;Q9NJP3;Q8IXW5;Q86TP1;O00148;Q9HCK8;Q9NQE9;Q9UKF6;Q9Y2M0;P28715;P13010;Q9NX46;P0C025;Q504Q3;Q96AY2;Q17RS7;Q96AB6;P36543;O00167;Q8WXI4;Q9H790;P55265;Q15493;O95453;P38935;P40306;Q8TD26;Q86YG4;P49959;P28065;Q9BSV6;P36639;Q99504;A8MXV4;Q9BV47;Q53H82;Q9NUU7;Q9UQ84;Q9NXJ5;Q9NSU2;P51532;Q8IZH2;Q8TCS8;O00743;Q9UBP0;Q96KR4;Q96C86;Q9GZU7;Q99708;P30307;Q9UDY8;P18545;P25786;Q8WY54;Q9Y5T5;O75884;O15527;Q17R31;P25788;Q93008;Q92562;P29144;Q8NNDL9;Q96HI0;Q9UNY4;Q9Y4P1;P25205;P25787;P51531;Q13615;Q08211;O43681;Q6ZUV0;Q8IV48;Q9BQ65;Q96LI5;P48147;Q6PII5;O75818;Q96DB2;O75608;Q6PJP8;O76075;Q9C0D7;O75604;P09467;Q8IYD8;Q9H9L3;P49720;Q5TFE4;Q9P2D1;Q9UKV0;P46100;O95630;Q9HC62;O95059;P07311;A2A288;P28838;P55212;Q9NUW8;Q9NRX4;P26196;Q9NS39;Q9BRQ3;Q8N1Q8;Q8N661;P53041;Q03468;Q9UK59;O95848;Q9Y2J8;Q15631;Q9NPI6;Q6ZRS2;P60900;Q9BRJ7;Q96DE0;O14531;Q9UKV8;Q13547;Q96SD1;Q9UBZ4;Q86TX2;Q96MB7;P30305;Q93009;Q9UM07;P49902;Q9H816;P31939;P14621;P10768;Q99497;O43809;P67775;Q6ICB0;Q96HM7;P30793;Q9Y2R2;Q9Y530;O43865;P54252;Q16829;Q9H0E7;O95476;P24855;Q96IV0;Q8N1G1;Q8NFI3;Q9BQ69;P83111;O94762;A5LHX3;Q9P2I0;P13984;A4GXA9;Q9BY32;O95865;Q53HV7;Q9Y5K5;P07992;P19447;Q969H6;Q8N6T7;Q16775;Q99638;P54922;P25789;Q13867;P49593;Q9HCE1;Q14839;O95989;Q9BYK8;Q9UBQ0;Q6TGC4;O60930;O15355;O14646;P24666;Q8IZD4;Q9H0W9;Q13569;P27815;Q9GZR1;Q6P587;Q9Y3R4;Q96NY9;Q93075;O75688;Q9ULC6;Q9H089;Q86US8;Q86W56;Q9UNH5;Q9Y5B0;Q7Z333;Q13907;Q3I5F7;Q9BXS1;Q9GZX7;Q96HA8;Q16719;Q9H4I8;Q9BSY9;Q9H3M9;P20618;Q3LIE5;Q6ZVK8;Q13838;Q8N490;Q8WVB3;Q9ULG1;O15379;Q8TAA3;Q9Y305;P28070;Q9UHY7;P53370;Q96FW1;O95707;Q8WUI4;P45381;P49789;Q92889;Q9Y3B8;Q8TDQ7;Q8TAT5;O75817;O75792;Q8TCD5;Q9NQR4;Q16740;Q5D1E8;Q9BQK8;Q15102;Q9NY33;P23526;Q9H0P0;O00757;O14734;O95278;P78345;Q9Y2B2;O95551;Q9NVP1;Q14790;Q5TA45;Q02083;Q13956;Q6P1N9;Q13609;Q8N0Y7;A6NK39;P28066;Q96S55;Q86T82;Q9H2U2;P62714;Q6GQQ9;Q9NRR4;Q5VWZ2;Q9NBP8;Q9Y2L1;P42574;Q92841;O14818;Q96FI4;Q9NRC8;P31941;P48454;Q9H008;Q9H1Q7;P55072;Q14240;Q8IXJ6;Q9NNTK5;Q5HYM0;Q6L8Q7;P28370;Q14527;P62140;O60825;Q9UI32;Q9BSH5;Q6NTF7;Q9H2W6;Q8NDH3;Q14194;P28072;Q63HML1;Q9UHP3;O95336;P30304;A4D2B0;Q969S2;Q99502;Q8NWR8;O94925;Q14674;P16278;Q86WJ1;Q86TL0;Q92900;O14829;Q86Y79;P16118;O60671;Q9H777;A6NG73;P56381;Q8WZ82;Q86UW6;Q9H2U1;Q9NRZ9;Q99575;Q96GD0;Q96FN9;P28074;P46926;Q94830;P42575;Q9Y3E5;O60346;Q9HC16;Q08209;Q14197;Q96EY9;Q9H9J2;Q96BW5;Q9UHI6;O15194;Q86X67;P49721;O14595;Q8NFP7;Q12972;Q8NCE0;Q7L266;Q9UMR2;Q9BY41;Q9UPW5;P60510;P56524;Q9BYX4;P38919;P41238;Q96C10;Q9ULW8;P39748;Q9GZR2;Q9H8H1;Q9NTG7;P07738;Q9BQ83;O15297;P36873;Q8IYB7;Q969S8;P60842;Q96IU4;P52758;P13051;Q92499;Q14693;P12956;Q9BU02;P78346;Q86T03;P55210;Q96GK7;Q9BQ52;Q9ULM6;O00303;Q8TF46;Q8N3J5;Q8TEA8;Q7Z2E3;Q14249;Q9H633;Q14566;Q86UY8;Q9BRX2;Q8IU60;P29372;Q7L2E3;O15442;O95571;O95243;Q92560;Q9UIF7;Q9BX63;Q969T7;Q9Y6E7;O95677;P50570;P17706;Q8NBV4;Q8N3C0;Q92698;P18669;P33992;P62136;Q12873;Q86X76;P15259;P35813;O60264;A8MSY0;Q9NP77;Q96NU7;Q9BU70;Q8WVY7;Q8NEL9;Q3L8U1;Q92905;Q15181;P35573;Q9UQL6;P78549;Q9H0C8}

9155

Pathogen[ P03363] interacts with 296 human

partners: {Q504Q3;P17706;Q9H816;Q9Y6E7;O14734;Q9BQ50;P12956;Q9NJP3;O94762;Q9BX63;P52758;A8MSY0;Q96IV0;Q96HM7;Q9H2U2;Q3L8U1;P63131;P63119;P62136;Q9Y2J8;O15355;Q9P2I0;Q9Y5B0;Q9Y5K5;Q7Z333;O15527;Q6ZVK8;Q9H3S7;P38919;Q8TF42;Q86Y79;Q9UNH5;P62714;P18669;O14829;P10265;Q075643;Q8IY21;Q9ULG1;O95453;P36873;Q12972;P51784;P33316;Q9BSV6;P13984;Q02083;P36543;Q92900;Q6GQQ9;Q9Y2R2;Q14194;Q9UHI6;Q96IU4;A2A288;Q9BY41;Q9NS39;P43378;O95059;Q9H4L7;Q92539;P62140;Q969T7;Q96DG6;Q9UHP3;Q96AB6;Q93075;Q9Y2M0;Q99575;P13010;O75817;P25205;O75604;Q86US8;Q13283;Q6ZRS2;O15379;Q9GZR2;P51532;Q969S8;O75818;Q9NUU7;O94925;P53041;P50570;O60671;Q9NNTK5;Q96FI4;Q16667;Q92889;Q9ULW8;O75884;P10768;P13051;O00743;Q9UKV8;P63121;Q15631;Q9UQL6;P54252;Q9H9J2;Q96MB7;Q86UW6;Q5VWZ2;Q14839;Q8IZD4;Q8IXW5;O95476;Q9Y6I0;Q9BQ69;Q9BRJ7;P10144;Q92620;Q9H0S4;P27815;Q63HML1;Q9UNY4;O95571;A6NK39;P33992;P46100;O95707;Q3I5F7;Q9H0W9;O75792;Q9H633;O60264;Q9UM07;P30304;P29372;Q13867;Q9ULM6;Q13609;Q92560;P55212;Q14562;Q99708;Q9H4I8;Q9NX46;Q9HCK8;Q7L266;Q9NUL7;O43809;Q16829;Q92841;Q14240;P46063;Q8IYB7;Q8N6T7;P54278;Q7Z2E3;P63124;Q14527;Q9H0C8;Q8N1G1;O00148;Q9UKV0;Q9BSH5;Q8N0Y7;Q9H2W6;Q96DE0;Q9HCE1;Q86T82;Q8WVY7;O76075;Q6TGC4;P07998;Q8WZ82;O15056;Q8NFI3;Q8IYD8;Q99504;Q9H9L3;Q9NUW8;Q9Y2L1;Q9BQ83;Q92499;Q96AY2;Q9UIF7;P26196;Q13838;Q9BYK8;P55265;P49789;Q9NRR4;O95243;Q9H008;Q96LI5;Q13547;P60510;O43865;Q9Y3Z3;Q14674;Q9BQ65;Q8IX06;Q6PJP8;Q96S55;Q9BXU7;O95848;Q96HA8;Q9UI32;Q9UBQ0;Q99638;O14646;Q9UMR2;Q13569;Q12923;O14531;Q8WUI4;Q96HI0;P60842;Q86XP3;O95865;Q03468;O00167;Q9NQE9;Q8TD26;O95551;O95336;Q9BYX4;Q9H1Q7;Q9BRX2;P78345;Q5D1E8;Q86W56;Q9Y3E5;Q12873;P28370;O60930;Q8WVB3;Q8TEA8;Q9NTG7;P55210;Q9Y4P1;Q7L2E3;Q9NVP1;Q9GZU7;Q9UKF6;P24855;Q9GZR1;Q9BV47;P78346;O15297;Q9H2U1;Q96FN9;A4GXA9;Q9BU02;Q96NY9;Q96C86;P51531;Q8TF46;Q86W

J1;P30307;P36639;P35573;Q08211;Q9H6S0;O75688;Q6ICB0;O43598;Q5T890;P24666;Q15181;Q9NRC8;Q969S2;P67775;P63129;Q93008;P15259;Q86TP1;Q9NPI6;A6NG73;P38935;Q8NCE0;Q9ULC6;Q9BUL9;Q53HV7;Q8IZH2;Q9NQR4;Q92905;Q96FW1;Q92698;Q8WY54;Q15102;Q6ZUV0;O14595;Q8IU60;Q8N3C0;Q9NP77;O00303;Q5TA45;P42285;P53370;Q8TDQ7}

9156 [Cluster 833]GO:0008270+F molecular\_function [name] zinc ion binding [def]  
"Interacting selectively and non-covalently with zinc (Zn) ions." [GOC]

9157 Pathogen[ Q2Q067] interacts with 823 human partners: {E7ETH6;O95376;Q0D2J5;Q12901;Q9HC78;Q09FC8;Q9H4I2;Q01844;Q9UM63;O15014;Q92900;Q96SQ5;Q14974;Q9Y473;Q9BYE7;P07438;Q14526;Q8WV37;Q8N859;O95602;P52742;Q9BRH9;Q96N77;C9JN71;Q8NHY2;O43463;Q9UPP1;P17544;Q13118;P25490;P52434;Q8IXJ6;Q9UK13;P35789;Q6V9R5;Q8NA42;Q9Y6X8;O95639;O43167;Q2M218;Q8TA86;Q9UJN7;Q03923;Q8WV44;Q9UEG4;P62633;Q9BUG6;A6NDX5;Q8NEM1;Q9UC06;Q14258;P98182;Q9H7X3;Q9UPN9;Q9Y3S2;P56524;Q9UK11;P17029;P52738;Q9ULX6;Q9NR56;A8MTY0;Q9HAW0;Q9H7R0;Q96PE6;Q8IZD2;Q8IZ26;Q9BRR0;P10827;A6NJL1;O43361;Q9Y462;Q7Z6J0;Q96NI8;Q9UGU0;O75925;Q6NUM9;P55895;Q9UJL9;Q9UL41;Q9NS56;Q70YC5;O60304;P24278;P49790;Q8NEP9;Q6ZQV5;Q9HBE1;Q9NXR8;Q63HK5;O95391;Q8N0Y2;Q92664;Q5VTD9;Q15928;Q96K75;Q13887;Q8TA94;Q86YE8;Q08AN1;P49792;P58317;Q8WW38;Q6ZMY9;Q8WYH8;Q8N8Z8;Q6ZS27;A6NP11;Q9UL59;Q8N4W9;Q9H2P0;P10073;Q9HAZ2;O75151;Q16775;O60481;Q6IE81;P62273;A6NGD5;Q5SXM1;Q6IV72;A8MVS1;O14639;P10589;Q8N2I2;Q6ECI4;Q9UC07;P53804;Q8IUV8;Q9P0U4;Q9H9D4;Q12986;Q9NR48;P13056;Q8IXK0;Q6ZT77;Q9UHF7;O43189;P62508;Q9ULD5;P51508;Q14590;Q9NTW7;Q9Y2Y9;Q96NG8;Q6ZN06;P41182;Q9Y2X9;P19474;Q9H5H4;Q10828;O60260;P30793;P55197;Q8NBB4;Q96H40;P49910;Q8N5U6;Q15326;Q9NZV7;Q32MQ0;Q6P2D0;Q9HCL3;Q6U7Q0;Q93083;A6NIX2;Q9UKJ3;Q8TD23;Q9H0F6;Q96SK3;Q96IT1;Q147U1;Q15697;O43255;Q96LW1;Q9NZL3;Q7L2R6;P08151;O14618;O43439;Q99676;O75478;Q13077;Q96T88;Q96SL8;P37275;Q8IYW8;O75081;Q05516;Q8NF64;Q05481;Q02930;Q9NVW2;Q8NCK3;Q8NDW4;Q15696;O75820;P49116;P10074;Q7Z2E3;O60315;Q9P0L1;Q9ULV3;Q14119;Q9H4Z2;Q6P9A1;Q12933;Q96PQ6;Q86SE9;Q8N782;Q969S2;Q96NL3;Q8WTR7;Q9NYJ8;Q8TAW3;P51815;P14373;Q9UI59;Q8TF20;P34949;Q9HBS8;Q6ZR52;Q99684;P52741;Q9UDV7;Q8TF68;Q3KVC3;Q96WB0;Q9P255;Q8NC26;O43296;O94776;Q9H4T2;Q9UBU7;O14709;Q08ER8;Q14192;Q5T5D7;Q9NQX1;Q8TE76;Q6ZMW2;P15976;Q9UNL4;Q9BWX5;Q2M3W8;O14686;O15535;Q6H8Q1;O14628;Q8TBC5;Q6ZSS3;Q02447;P52594;Q86YF9;Q9NSD4;Q2M1K9;Q86YP4;Q9Y3Y4;Q6ZNA4;P17030;P17031;Q7Z340;Q86UE3;O75362;Q16670;Q96N95;Q9Y5A6;Q8TF47;P17036;Q9ULJ3;Q6VVB1;P17040;Q15560;Q2QGD7;P17010;Q95625;P17038;Q9NTG7;Q9UK12;Q8WU90;Q9UDW3;P38935;Q9NYG5;Q96CB8;P08047;Q8TC21;P11473;Q96C28;O75928;Q13342;Q16629;Q9ULJ6;Q15022;O43829;P16415;Q9BSM1;Q8NHM5;Q86Y25;P0CG00;Q8N184;Q96NJ6;Q8WUB8;P13640;Q13129;Q9H7S9;Q7Z3V5;Q3SXZ3;Q5TAX3;P28702;Q9UFB7;Q6IQ21;Q13398;Q53GI3;Q96MR9;Q6PJT7;Q14134;Q96BV0;P35227;A8MT65;A6NK53;Q86TJ2;Q9BUY5;O60663;P07902;Q96QC0;B2RFX5;Q8N3J9;Q8N6T7;Q9Y2P0;Q9Y2H8;O15304;P52743;Q49924;Q15937;Q7Z2W4;Q9UHK0;Q68EA5;O43823;Q8N5C8;O60711;Q96IF1;Q68DY1;Q7RTV3;P27797;Q8N5P1;Q9HCG1;Q6P280;Q9NRG4;O95159;Q8TAU3;Q92994;Q9UL58;P52747;Q96SR6;P78317;P11532;Q14929;Q5T619;P23769;Q8NFW9;Q14593;Q15929;Q8TB69;Q5T6S3;Q15072;Q15935;Q96C00;Q9BYK8;Q8IVP9;Q63HK3;Q5TA31;Q86Y13;Q9UI15;P04732;A8MUV8;Q96KR1;Q9P243;Q9ULM2;Q15047;Q9NP64;Q96N38;A8MWA4;P49356;Q9UGP4;Q5SVQ8;Q9BTC8;A8MQ14;Q96CX3;Q8IWS0;P25791;P17032;Q99728;Q96BD5;Q6P9G9;P26358;P51948;Q52M93;P15621;Q6GPH4;Q92782;Q14585;Q9NQX6;Q96MT3;P17022;Q68DI1;P51504;P04733;Q9UKY1;Q8N8C0;Q9Y2D9;Q96NSZ4;Q15654;P56270;Q6IQ32;A2RRD8;B4DXR9;Q6NX45;P17098;O75437;Q8NF99;P12755;Q9Y4X5;Q13360;Q9UBF6;P84022;Q6P9A3;B1APH4;Q6P1X5;P46939;Q8N448;Q66K41;P0C7X5;Q8IYH5;Q13330;Q15437;O60284;Q8WU55;P35992;O95628;Q96GC6;Q76KX8;A6NHJ4;Q9P2R6;Q8N3F8;Q8N895;Q96N22;A8MX4;Q8N141;Q03924;Q8TAT6;Q96LX8;O95486;Q8TBB1;A5JNZ3;Q96EP1;Q9Y2Q1;Q9H091;Q96K81;Q96NG5;Q13114;Q96PM5;Q86UW9;A6NNF4;Q13127;Q9P2J8;O95780;Q96JM3;Q6PF04;Q6NZY4;Q9HD42;Q9BR84;Q9H116;Q9Y6X2;Q9UBW7;P11161;Q9NWT6;Q9NTX7;O94855;O75152;Q13233;O15265;Q05BQ5;P09874;Q8NI51;P15622;Q96K62;Q7Z3K3;Q5T200;Q3KP31;Q5JV8;O43830;O43918;Q49A33;Q12873;Q9ULU4;O15164;Q9GZX7;Q3SY52;P35226;B4DX44;Q9H160;Q01081;Q8N988;P59923;Q9Y4L5;Q969J2;Q5VUA4;Q9NYT6;Q494X3;A6NM28;Q9Y2L8;Q8IYB9;P46100;Q8IX07;O60291;Q32M78;Q9H9Z2;O14771;Q9NQZ8;P0CH99;Q8N823;P17041;Q8N9K5;P55055;Q9UIH9;Q9BSG1;P0CJ79;Q3MJ62;Q969S3;Q8N7M2;O60765;Q8NB50;Q3ZCT1;Q9NRL2;O75164;Q5HYK9;P62875;Q99496;Q5VTR2;O95218;Q8N9Z0;P80294;O75312;Q92785;Q2VY69;Q96T23;P51523;Q9H963;Q969R5;Q9NYW8;O76064;Q8WY41;Q86TG7;Q5BKZ1;Q9BYN7;P62072;Q96GE5;Q9NWF9;Q86VP8;Q8N720;P51786;Q9HCZ1;Q8NB42;Q8TDB6;P23193;Q9HBT7;Q9C035;Q86VP1;Q8TBZ5;Q9HAH1;Q86VM9;Q9Y2P7;Q6P3V2;Q9Y5J7;O75346;Q14588;Q14839;Q6ZMV8;O15504;P15336;Q14592;Q6AZW8;Q6NSZ9;P28838;Q86V15;P28698;Q6ZNG0;Q8N9F8;P0C7V5;P17021;P08235;Q9UNY4;Q8WV99;Q96QT6;Q9UID6;Q14872;Q9UDV6;Q3KNV8;O95271;A4D1E1;Q5CZA5;Q9Y3C5;Q96HQ0;Q99590;Q9UKN5;Q9UNY5;Q9H707;O75150;Q06455;Q9NSJ1;Q9UKT9;Q9H0A6;Q5SVZ6;B4DU55;Q6PG37;O75373;Q9BYX4;Q8IW36;Q19AV6;Q96CS4;Q13642;Q49AA0;Q8N490;P11474;Q9GZU2;Q86TJ5;Q9NS23;Q8IVC4;Q8N488;Q9UK10;A8MUZ8;P29083;P04731;O75382;Q96SE7;P47974;Q86YI8;Q7L945;Q8NDQ6;O75764;Q13106;Q9GZT9;Q86XF7;Q5TEC3;O95487;Q9UIL8;Q96PU4;O95125;Q9UIF9;Q68CP9;P17019;P0CG31;P0C7X2;Q92793;Q9Y2G7;Q8IYX0;Q93052;Q9UJW7;Q96MF7;Q9NSC2;Q92670;P52736;Q8N3Z6;P63272;Q96NJ3;O75800;Q86XN6;Q9GZX5;P53803;Q9H8G1;Q96MN9;Q9BQA5;P17025;P42677;A6NK75;Q8N587;Q8N7Q3;Q7Z398;P13682;Q8IYI8;P26651;Q86V71;P52744;Q9UGR2;Q86Y01;A6NN14;Q96JL9;P0CB33;Q9ZNH5;Q9NWS9;Q3ZCX4;Q9BX82;Q86XK2;Q9HCM9;Q9P0T4;P80297;Q8IY57;Q5VVG9;Q5HY98;Q9UIF8;Q9UH90;Q15637;Q8NA19;Q8NEK5;P55198;Q9Y252;Q8WXI9;O00463;Q8NB12;O43309;O14978;P35637;Q6ZN79;A7E2V4;Q9H7R5;Q9C0F3;O60870;Q8N972;Q13490;Q9H0M5;Q9UL40;Q6ZNO8;Q8NHY6;Q8TBZ8;Q9UIE0;Q9Y468;Q68DY9;Q5VIY5;Q9CQG24;O75290;Q9H5I1;P22681;Q6P1K8;Q8WXB4;P49711;A2A288;Q8N5A5;Q9NVV9;Q00987;Q9HC16;P9BWM5;Q8TF32;Q96GM8;Q16600;Q2M3X9;P52737;Q9UQR1;Q8TAF7;Q8N7K0;P49754;O14802;Q15776;Q66K89;Q08AG5;Q12874;Q15436;Q86W11;P51522;P22736;Q6ZN17;O15392;Q96PM9;Q96BR6;Q96IR2;Q06587;Q969W8;Q6ZNA1;O95201;O43345;Q8TDD2;Q5FWF6;Q8N393;P62877;Q8WTZ3;Q8NAP3;Q96ND8;Q96LW9;Q12830;Q3MIS6;Q9UL36;P02795;Q8TAQ5;Q13501;Q13105;Q9NV72;Q6ZNG1;Q8IYNO;Q96JC4;P09234;O15015;Q9UPG8;Q9Y2A4;Q07352;P21506;Q14584;Q13888;Q9Y6R6;Q86XU0;P17014;Q8IUD6;P17023;Q9Y242;Q8NDP4;P18146;Q7Z6E9;Q03112;Q15650;Q15428;Q9NW38;P17028;O96028;P15822;Q03936;Q00403;Q13064;Q8N2W9;P17024;A8K8V0;P98168;Q9UBS8;Q7Z3I7;Q03938;Q8TF39}

9158 Pathogen[ P0C214] interacts with 922 human

partners: {P22681; Q86UD4; A6NDX5; Q9UGP4; Q6ZN55; Q5BKZ1; Q6NX49; Q6PDB4; Q92618; Q6NZY4; Q06732; Q8NEK5; Q9NQZ8; Q14526; Q8NFW9; Q8NI51; Q96GM8; Q9Y6X2; Q6IQ32; Q7Z3K3; Q96C28; Q14527; Q96MU6; Q9P255; Q9UKN5; Q9RE9; P35226; Q8NA19; Q969S3; Q8IWW8; A8MUV8; P08294; O43296; Q6ZN17; Q8TBZ8; Q8IZC7; O75467; Q6ZN11; Q96LW9; Q9UID6; P49754; Q6ZNA1; Q9P0T4; Q7Z6J0; P35789; Q8NDQ6; Q9H5I1; Q96PM5; Q13887; Q9H0A6; P35227; P17032; Q14593; Q15697; A6NGD5; A8MVS1; Q9HCZ1; P19474; Q02930; P56270; O43829; Q15022; P51508; Q7Z398; O60663; Q9NRL2; P11474; A8MQ14; Q15047; Q13330; P52743; Q97728; P35637; Q9POL1; P17010; Q63HK3; Q9ULD5; A8K8V0; Q9UHF7; Q8WV44; O75764; O43830; Q9BS34; Q9Y2A4; Q6PEW1; P0CI00; Q14872; Q8IXK0; Q8N7Q3; Q13490; Q86SE9; Q16775; Q8IYN0; Q14929; Q96KR1; Q8NF64; P28838; P17023; Q9BX82; Q9Y2D9; Q14591; Q9Y5A6; P53992; Q6ZLN57; P51814; Q5T5D7; Q05481; A6NHJ4; Q96SQ5; Q92664; P0CB33; Q9UL59; O75925; P52744; Q6ZNH5; Q5JVG8; Q8IYW8; Q8NC26; Q8N5A5; P15336; Q9Y473; Q96LW1; Q9NS23; A6NP11; Q5SVZ6; Q9UH90; Q96I27; Q9UJL8; O15535; P53803; Q8TD17; Q6PG37; Q9NTW7; Q8TF45; Q9BSM1; O75820; Q9BWM5; Q8TAQ5; Q9UDW3; P52742; P62273; Q14587; Q12873; Q9NPC7; O95628; Q86UE3; Q9UIH9; Q92900; Q8TBC5; Q00987; Q9GZU2; Q8NDP4; Q96CX3; Q96NJ3; P52738; Q5JVG2; P0CG31; Q9NR56; Q96K62; Q96BR6; Q9HBE1; Q8NCA9; Q7L2R6; Q9NS56; O75478; Q8TD23; Q9P2F9; Q9C035; Q8N587; Q8TAU3; Q8N2W9; Q14119; Q03112; Q9UJN7; P17019; Q8N0Y2; Q8IVP9; Q9UC06; C9JN71; Q68DY1; Q5MCW4; Q9P2N5; Q99676; Q8NCK3; Q8N823; Q9UNY5; Q8NEP9; Q9HD42; Q08AN1; P17022; O75362; Q9NUA8; Q9H6B1; P23769; Q5T6S3; Q92793; Q16587; Q7Z7K2; Q969W8; Q15637; Q9UIF8; Q499Z4; Q5T200; Q96GE5; O95625; P79522; Q86XU0; Q96QT6; Q8TF20; O43167; Q6P9A1; P84022; O75437; Q6PK81; Q6P1L6; Q9UL58; Q86WB0; P29728; O95125; Q5TYW1; Q9NTX7; Q15428; Q6PF04; Q86WZ6; Q6PII5; Q9P2R6; P56524; Q96PU4; Q9UK11; Q86YE8; Q9NR11; Q96CS4; O14709; P17029; P17544; Q12986; Q9Y2Y9; Q96BD5; Q00403; Q96SR6; Q8NAP3; Q9UK13; Q9UL40; Q9H0F6; P17026; Q96MN9; Q8IUD6; Q96SK3; Q9NW07; O14639; Q9UNL4; Q5HY98; Q2MLK9; Q63HK5; O75123; Q2M3W8; Q06455; Q9UHK0; Q02386; Q15973; Q3MJ62; P37275; Q3KP31; Q6PJT7; Q8N8C0; Q15928; Q8N448; Q8NHY2; P49792; Q9ULJ6; Q86TJ2; Q9UPG8; Q96K58; Q9BYX4; Q8NG27; A8MT65; Q9Y3C5; Q96JC4; P98168; Q7Z3I7; Q8IZ26; Q8N9F8; P17024; Q9Y2Q1; Q6ZR52; O14771; Q12901; Q96NG5; Q96N77; O75164; P55198; Q96SE7; O75151; Q9H091; Q9UBU7; Q6ZN19; Q9UL41; P17038; Q9Y468; Q9UC07; P38935; Q494X3; Q96MR9; Q9Y2P0; Q96K75; P62877; Q9UII5; Q4V348; O43463; Q96SZ4; Q6IV72; Q8N141; Q15436; P51786; Q9BY31; Q01844; Q15560; Q96BV0; P13640; Q6P1K8; Q5SVQ8; Q8N883; Q96MT3; Q3SXZ3; Q9GZX5; Q9NXT0; Q13064; P51523; Q9H4I2; Q147U1; Q9BSK1; P24278; Q96T88; P17031; Q9HCX3; P78317; Q5VTD9; Q7Z2W4; Q13398; Q53GI3; Q9HBT8; Q9NWF9; Q8N5U6; P62072; P17030; Q03936; Q96NL3; Q8TF68; Q9UKJ3; Q9BYK8; P80297; O75800; Q5VWG9; Q86XN6; P11532; Q13501; Q07352; Q8N5C8; O95201; Q8TC21; P28698; Q9NWS9; Q14258; P15622; Q6ECI4; O75312; Q6ZSS3; Q9BRR0; Q6ZN08; Q8N859; Q13129; Q13642; P13056; Q9UIS9; 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GR2}  
9159 Pathogen[ P03346] interacts with 1154 human partners: 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51522;Q9UKY1;Q9UPG8;P59923;Q9H5V7;P23193;Q7Z5J4;Q96NL3;Q9HCL3;Q5TC79;Q8TDB6;P0C7X5;Q96ITL;Q9UC06;Q13029;Q9BYK8;Q8IXK0;Q9NWT6;Q9Y2X9;Q6GQQ9;P29083;Q8NHM5;Q969J2;Q16600;P18146;Q8WUB8;Q8N782;Q9BS31;Q86UZ6;Q00403;Q9H9Z2;O75398;Q8IYN0;Q92793;Q9UID6;Q15697;Q9NR48;Q6ZNO4;Q6ZNS7;Q01844;Q6NUN9;Q8N488;Q13360;P53804;Q5T6S3;Q5T7W0;Q16775;Q9Y4X5;O75467;Q9NZL3;Q9Y6X2;Q93052;Q96H86;Q15776;Q9Y6Q3;P51523;O00482;Q86T24;Q9H5I1;Q9Y252;Q9WN38;Q8NEK5;Q9Y2A4;Q02930;Q86Y01;Q14588;Q6AZW8;O95071;Q8IY57;Q96K80;O75290;Q9HAZ2;Q01101;P26651;P17019;Q8NCK3;Q9BZR9;Q6IV72;Q86UP8;Q16587;Q6P3V2;O75152;Q5VWG9;Q8IZ26;Q92900;Q9UIE0;Q8N988;A1L020;Q8TD94;O75928;O75800;Q9UL41;Q96GC6;Q15696;Q9Y2J0;Q6FIF0;Q96CA5;Q68CP9;Q9BSG1;Q15654;Q9BTC8;Q8NG27;Q6AHZ1;P35398;Q9BXX1;Q9UJU3;Q68DY9;Q9Y473;Q96CK0;Q86UP3;Q9UJN7;Q8NEA6;Q8N3Z6;O43900;Q5EBL2;O00110;Q3SY56;Q0D2J5;Q16670;Q9UBZ4;Q9NTG7;Q9Y2H8;Q68G74;Q9HRE9;Q9BWX1;Q92804;Q9ULV3;Q8N3J9;P09234;Q8IVP9;Q5CZA5;Q7RTV3;Q6PJT7;Q92664;Q9NYT6;Q8WXB4;Q9UKN5;Q13285;P15822;A6NM28;P0CG00;Q06587;Q9NVV9;Q9H160;Q02447;Q96N58;O94822;Q8TEC5;Q6ZNG1;Q6NX49;Q5TEC3;Q8TDZ2;O60711;Q9NS23;O43823;P51948;Q99676;Q96SR6;O14802;Q96DX7;Q9UBF6;Q6ZNO8;Q9UUL8;Q86VP1;Q8IZD2;O15164;O75081;Q9HBF4;Q9NR56;Q9UIH9;Q96PM9;P53992;Q92618;Q92785;Q9UC07;Q14929;P55055;Q8TAU3;Q9Y2Y9;Q96SQ5;Q15650;Q6NSZ9;Q496Y0;Q9NXR8;Q9H4Z2;Q13106;P17024;Q96T88;Q9UJL9;P31629;Q9UJW7;P51814;Q6ZR52;Q9H0E7;Q132M78;Q9Y4E5;P62875;Q9P1Z0;Q86Y13;Q9NVW2;Q6ZNS5;Q96JC4;Q2TB10;Q86W11;Q14134;Q2VY69;Q96EP1;O15504;Q6ZNL7;Q8N184;Q14839;O15062;Q8N8L2;P0CG24;Q96MX3;O00488;A8K8V0;Q6ZNL9;Q13127;Q96JB3;Q6ZNG0;Q9P1U0;Q92782;Q9Y2Q1;Q13501;Q9H7R0;Q68DY1;Q86TJ2;Q15428;A6NHJ4;P49792;O96028;Q9GZV8;Q9NUK0;Q8WV44;Q8NDP4;Q86XN8;Q96IR2;Q5BKZ1;Q9BQA5;Q6PK81;Q7Z2W4;Q9HAW0;P08151;Q06455;Q14974;Q9UJ78;Q5VUA4;Q9UBW7;Q96GE5;Q5U5Q3;Q96K58;Q03938;Q9NPC7;Q92610;A6NFI3;P10589}

9160

Pathogen[ Q85601] interacts with 1025 human

partners: {Q9UQR1;Q9HCZ1;Q8N8C0;Q5SVZ6;Q9ULM2;Q9HCG1;Q9UBZ4;A6NNJ1;Q8IXK0;Q9P2R6;Q3KNS6;Q92618;P18146;A4D1E1;Q494X3;O75373;Q8N1G0;P08048;Q9H5I1;O95625;Q7Z6E9;Q6NX45;O14639;Q9UPN9;P78317;Q8NI51;Q15637;P17097;P51786;Q969J2;Q8N9K5;Q9NZU5;Q32M78;P28698;Q8IZC7;Q92664;P15621;Q63HK3;Q96JM3;P09234;P0CG00;Q96CB8;P51815;Q9UHF7;Q9Y5T5;P36954;Q6ZR52;Q9NQX6;Q13064;P08151;Q6PEW1;Q86W11;Q8NA42;Q14929;Q8NFW9;Q8TF39;Q9HBT8;Q9UPG8;Q9P1U0;P80294;P09874;O60481;Q14593;P62633;Q9P2G1;P17040;Q6ZNL1;P11473;O95602;Q2VY69;Q3MJ62;Q8N720;Q86XU0;P34949;Q06455;Q96SZ4;Q9UNY5;Q14586;P22681;O15535;Q9NPA5;Q9UJW8;Q8NBB4;Q9NQV7;Q96JX3;A6NHJ4;Q9ULJ3;Q13127;Q9NS56;P14373;Q9H707;Q2M3X9;Q96MX3;Q5EBL2;C9JN71;O75928;Q86VP1;Q13490;Q8TDB6;Q8N3Z6;Q7Z340;Q6ZNL7;Q9H0E7;Q8WV37;Q96SR6;Q5JNZ3;Q96ND8;O75112;Q6PG37;Q96K62;Q5TYW1;A6NFI3;Q14258;Q9UC07;Q96CS4;P17028;P51522;P61968;Q8N7M2;Q969W8;Q9NUA8;Q8TDD2;Q9UHD1;Q9BWX5;A6NK75;Q01538;P0CB33;Q9ULD5;P21506;Q8WV44;Q12901;P56270;Q9NYJ8;Q9H8G1;P15976;Q3SXZ3;Q9UL59;O94776;Q7L945;Q92994;O15265;Q9C0G0;P50479;P17019;Q96NG8;Q14202;Q5HY98;Q96BD5;Q969S2;Q6P1L6;Q8N8L2;Q6ZNS5;Q96B65;Q96HQ0;Q96JM7;Q8NB12;P13682;Q9UGR2;Q9UIF9;Q86VM9;Q86V15;O95487;O75151;Q96JF6;O75398;P17032;Q6PF04;Q9UL58;P17036;Q6DD87;Q9HCL3;O15151;P04732;Q9HCK1;Q9Y2L8;O95251;Q8WW38;Q8LWV7;Q8TAQ5;A6NIX2;Q02386;Q86YE8;O00463;Q9BYN7;Q8NAP3;Q9HBT7;Q5FWF6;Q6GPH4;Q32MQ0;Q8IYN0;Q93083;Q19AV6;O95714;Q7Z3Y8;P17020;Q9Y3C5;Q96BV0;Q13360;Q96QT6;Q9H7S9;B4DXR9;O75312;Q9UUL8;P38935;Q96LX8;B1APH4;Q8TD23;Q8N8J6;A8MWA4;Q96T23;Q9BR84;Q6ZNG0;Q9Y2Y9;Q9P2N5;Q14966;P15622;Q96H40;Q2M3W8;O75800;O95391;Q13888;O60315;P62072;Q14587;A2RRD8;Q8NHY6;P17027;A8MUV8;Q9HC16;Q9NR11;Q9Y6X2;Q03936;Q08AG5;Q9Y2Y1;Q9H116;Q2M1K9;P62877;Q6ZNS7;Q9NWS9;Q8N680;Q9NR48;P15822;P62273;Q07352;Q9Y5J9;A8MVS1;Q14872;Q8NDW4;Q9UKN5;Q6NSZ9;Q15654;Q9HBF4;Q9UDV6;Q13129;O15304;O14978;Q9H0A6;P28702;Q03112;P17030;P79522;Q9Y468;O60663;P52740;Q96KM6;Q8NFT6;Q6ZMY9;Q8TF20;P23769;P30622;Q9BUG6;Q6PCD5;Q9Y2Y4;Q9NWT6;O95789;Q9NR83;Q86WB0;O15015;Q9H609;O75437;Q13106;Q9UL41;P07438;Q9Y2X9;Q86WZ6;Q6NUN9;Q9UJW7;Q9Y242;Q96PM5;Q96PU4;Q9BS31;B4DU55;Q93052;Q8IVP9;Q8IYH5;O14709;Q96T51;Q14596;Q96SQ5;Q99728;Q6ZNG1;Q3KP31;Q09FC8;Q9Y4L5;Q86V71;Q9Y5J7;Q52M93;Q96H86;P17026;P53803;P17022;Q8N5A5;O60284;Q92610;Q7Z2W4;Q14686;Q8TAW3;Q96KR1;Q9H0M5;P52744;Q2M218;Q9GZX7;P25490;Q8IZ26;P98170;Q6ZN55;Q9UNL4;Q8N895;Q9BX82;Q96NG5;P0C7X2;Q8NFP9;Q2QGD7;Q9Y6X9;Q8NDP4;Q13642;Q86XN6;Q14588;Q9UII5;Q9H4T2;Q96JC4;P11532;Q8TBZ8;Q14592;Q9NP61;Q9UBU7;A6NK53;Q9NQZ8;Q9BZR9;Q14591;O00151;A1L020;Q9NWF9;P58317;Q9C0F3;O15392;P47974;Q8TF32;P27797;Q15776;A8MQ14;Q86XK2;Q3MIS6;Q3KQV3;O75290;Q9NR56;Q96SE7;B4DX44;Q8IUD6;P26358;Q9HAW0;Q8NA19;Q9P2F9;Q9Y3M9;P17038;Q9P255;Q9NS23;P49754;A6NM28;Q6PK81;Q6ZNO6;P17031;Q8IYW8;P17014;P51948;Q96MU6;Q8N2W9;Q5T1R4;O15164;P10074;Q9H0F6;Q8NEP9;P52594;Q9NV72;Q49A33;Q9UJN7;Q86SE9;Q15560;O43439;Q9UJ41;Q6P1K8;Q5TA31;P02795;Q86VD1;Q9HAH1;Q08AN1;Q9NZV7;Q16629;Q13114;Q03923;P52736;Q8N823;Q6H8Q1;Q92782;P17024;Q14149;P17017;O60304;Q9Y2D9;Q15436;P59923;Q8N2I2;Q13398;Q53GI3;Q9UK11;Q86UD4;O43463;P55055;P17010;P49711;Q9UID6;O43345;Q9UIH9;Q8TAF7;Q8N184;Q9BUY5;Q8TF47;Q9UJL9;Q8IYI8;Q9NYW8;Q8WUB8;Q96FI4;A8MX4;P12755;O95125;Q9ULU4;Q12830;P30793;Q66K41;Q499Z4;O15504;Q14974;Q9H7R0;P08047;Q5VWG9;Q969R5;Q8N6M9;Q9HC78;Q8N9F8;Q6IQ21;Q8N5C8;O75152;Q96MT3;Q01954;O95201;Q6V1Y5;Q9UBW7;P26651;Q16587;Q15022;Q05481;Q13263;O60291;Q68DI1;P52746;O15060;Q14526;Q6IQ32;O75820;Q8N6H7;Q8NEA6;Q3ZCX4;Q9Y6R6;Q8TF50;P0CJ79;Q6GZX5;O43361;Q9NW07;Q9H4I2;O60870;P36508;Q8TC21;Q6PJT7;Q7Z3K3;P35637;Q9U12;Q9NX65;Q7Z6J0;Q8NDQ6;P51508;Q9UK13;Q6ZNO8;Q9GZU2;Q8NBF1;O60711;Q969S3;Q9P0U4;Q8IWS0;Q8N1W2;P25791;Q8N339;Q86UW9;Q15650;Q9NQX1;Q9NVV9;A6NGD5;Q8WTZ3;A6NJJ1;Q9NP64;Q8NEK5;Q8N4W9;Q92785;Q96N38;Q8N587;Q9UIS9;P52742;Q02930;Q16600;Q9Y5A6;P78364;Q9P0T4;Q9BTC0;Q9H7R5;Q9L064;P17098;Q6PII5;Q9BSM1;Q96MN9;P80297;Q9P0L1;Q9GZT9;Q8NB42;Q9UL36;Q15928;Q5TAX3;Q9UX63;Q96MR9;Q6P9A3;Q5MCW4;Q96N20;Q8IXJ6;Q9UKJ3;P0CH99;Q15437;Q9BRR0;A2A288;Q12933;Q9UM63;P16415;Q9H7X3;Q96N22;Q9Y2G7;Q9UL40;Q9UDV7;Q03924;Q86YP4;Q9Y2A4;Q9UBF6;Q96CX3;Q9NQ7;Q8N859;Q15973;Q8N6T3;O60765;Q9UPQ4;Q92804;Q8WXI9;Q9P2J8;O95780;P52738;P04733;Q147U1;O95628;Q9NZL3;Q8IYL2;Q12873;P98169;A6NDY2;Q9H8N7;Q96T92;Q08ER8;O15014;Q5SV7;Q8I4192;Q9H6B1;Q6NZY4;Q05BQ5;Q96N58;E7ETH6;Q9NXT0;P46939;Q8IYM9;Q7Z3V5;Q5JVG2;Q5T5D7;Q6P3V2;Q9NYG5;Q8NHM5;Q8N7Q3;Q9HB58;Q96X65;Q13330;Q8IYX0;Q15942;Q8TAV6;Q6P1X5;P22736;Q14585;Q9HA38;Q9Y6X8;Q0VGE8;Q96LW1;O14771;Q96GC6;Q86XF7;Q6ZT77;Q96N95;O75346;Q9BYX4;O60281;Q96GM8;Q01081;P17029;O95159;Q9H2P0;Q96T88;P29083;A6NP11;Q15929;Q9BYE7;Q8NEM1;P





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9162

Pathogen{ P03383} interacts with 604 human

partners: [Q969W8;Q96LX8;Q9UQR1;P35227;O14628;Q7Z2E3;O15504;O43167;Q9H7R0;P53803;Q8WTZ3;Q8NI51;Q5FWF6;Q5JVG8;A6NNF4;Q15935;Q12830;Q8NBB4;P19474;O75925;P34949;Q9NYW8;Q9Y5J7;Q63HK3;Q8TA86;Q96BR6;P49792;Q15047;O95625;P04733;Q96SK3;Q14839;Q86UW9;Q6ZN08;P80294;O95602;Q6PJT7;Q96SZ4;P63272;Q9BSG1;Q5SVZ6;Q9UK10;Q06455;A6NK75;P08047;Q9NWT6;Q9BTC8;Q9BR84;P53804;Q8TBB1;O75478;Q9H0F6;Q9NZV7;Q9H7R5;Q9Y2P7;Q49A33;Q93083;Q9H9Z2;P17544;P56270;Q8N6T7;Q8WV99;Q32MQ0;P51948;Q13233;Q9H4I2;Q9NP64;P13640;Q9NYG5;Q9HBE1;O60765;A8MVS1;Q9H8G1;O14639;A8MWA4;O94776;P49711;P17022;P62072;Q86V71;Q96GE5;Q9H5H4;Q96SL8;Q5HY98;Q3KP31;Q15937;Q15072;Q14526;P17029;P0CG00;Q9H4T2;O95487;Q15650;Q9HCL3;Q8WW38;O75437;Q86YP4;O95251;A8MXY4;A6NIX2;Q12986;O15304;Q96NI8;Q9UPN9;Q13888;Q8IWW8;P49116;Q9P2R6;Q26270;O75362;P51815;Q9HAW0;P23193;Q19AV6;Q8N7M2;Q9BRR0;Q13360;P07902;A8MTY0;Q96BD5;Q9NRG4;Q8TD23;Q05481;Q9Y2Y9;P51198;Q96H40;Q2M3W8;Q8N4W9;O43463;Q6ZN06;Q6ECI4;Q6P3V2;Q4LE28;Q9NR56;Q9UK13;P51508;O95218;Q9BYN7;Q8IYL2;Q8N3J9;Q13490;Q6ZNI7;P52744;B4DX44;Q9UBS8;Q8NEP9;Q5CZA5;Q8TF20;P23769;Q76KX8;P42677;Q86WB0;P37275;Q8NDQ6;Q96MT3;Q96N77;Q9UL58;Q9ULD5;Q9ULU4;P80297;Q96PU4;Q06587;O14709;Q3MJ62;Q96KR1;Q86TG7;P28838;Q12901;Q9C0F3;A4D1E1;Q9NXT7;P35789;Q86VP1;Q9UNL4;Q12874;O95486;Q6ZNA4;P52434;Q8NA42;Q6P9G9;P17019;Q96QT6;Q6IQ21;Q96N20;Q9Y2Q1;Q86XK2;P78317;Q8WYH8;Q9BYE7;Q96N95;Q03923;Q8N988;O43189;Q86V15;Q3MIS6;O75151;Q96SE7;Q86XF7;Q05516;P28698;Q9GZX5;P62273;Q8TB69;Q07352;P0C7X2;Q9POL1;P17038;Q92782;Q96T23;P49754;Q13330;Q5T200;P15621;A6NK53;Q86YE8;Q8WV37;Q9HAH1;Q8N2W9;Q6NZY4;P51504;Q8N587;Q6ZR52;Q13064;Q15560;Q96MF7;Q6P1K8;P02795;Q8N5U6;P59923;P17098;Q9NQX1;Q15022;B4DU55;Q6NSZ9;P0C100;P46939;P18146;Q9NTW7;Q15436;Q13398;Q66K89;Q53GI3;Q9UK11;A2A288;Q49AA0;Q6IQ32;Q8TAF7;Q15654;Q8IYI8;Q14872;O75164;Q00403;Q9UKJ3;Q9Y2L8;O95628;Q16629;P17014;Q14588;Q7Z3V5;Q5VWG9;Q5TAX3;Q96LW9;Q8TE76;A8MUV8;A8K8V0;Q8TF47;Q8N5C8;Q9UBW7;O95201;O75800;Q9HAZ2;Q9HCG1;P52746;Q499Z4;A6NDX5;Q7L2R6;P46100;Q15326;P11473;Q9BSM1;Q60870;Q5VUA4;P11474;Q6ZNA1;Q03112;O14978;O15015;Q12873;Q8IYX0;Q8NB50;Q9H963;Q96MR9;P84022;P98168;B4DXR9;Q92994;Q9H160;Q8IWS0;Q8N895;Q86SE9;O75081;P25791;P52747;Q15928;Q9NVV9;A6NGD5;Q96ND8;Q9UDV6;Q9C035;Q9UID6;A6NJL1;Q8NEM1;Q9NV72;Q9NTG7;Q5JNZ3;Q96N38;P17010;Q9UHK0;Q9UNY5;Q32M78;O60260;Q8NF64;Q96MN9;Q02447;Q8N3Z6;Q13105;Q8N



488;O95125;Q08AN1;P35637;O15265;Q14192;Q5TA31;Q15437;Q9GZU2;Q9BQA5;P17040;O94855;O75290;Q12933;P52742;P17032;P0CH99;Q96N22;Q8N859;Q9Y2G7;P17036;P24278;Q96LW1;Q6PG37;O43345;Q9BX82;Q52M93;Q9UBF6;Q68CP9;Q13342;A6NHJ4;Q99590;O60663;Q8TAT6;Q9UGP4;P09874;Q9P2J8;O95780;O60304;O60711;Q7Z3K3;Q6ZNG1;O95376;Q9NSC2;O15014;P52743;Q05BQ5;Q8N9F9;Q9Y6X2;P28702;Q9H9CM9;Q9ULJ3;Q6IV72;Q8N5A5;Q70YC5;Q96PM5;Q15697;Q8N7K0;Q86UE3;Q68DY1;Q9Y6X8;Q9UKN5;P15822;P11532;Q01081;P55895;Q5VIY5;Q9UIF9;P10074;Q8N448;P10074;Q8N448;P10074;Q6U7Q0;Q96C28;A8MUZ8;Q03936;Q86YI8;Q9Y462;O43255;Q15929;Q9H7S9;Q96GM8;Q8N8C0;Q6P1X5;O43829;Q14974;Q96IT1;Q3ZCT1;Q99496;Q8N9Z0;Q9HD42;Q13501;Q8N972;Q16775;O43918;Q8TF32;Q68EA5;Q99684;Q8WY41;P04732;P26651;Q9ULX6;Q5VTR2;P52737;Q96IR2;A6NN14;Q5SVQ8;Q16670;A6NP11;Q9H116;Q9Y252;Q96GC6;Q9H9D4;O15535;P62633;Q494X3;Q86XN6;Q9UC06;P11161;Q8N0Y2;A7E2V4;Q9UIF8;Q5HYK9;Q96QC0;Q8N782;P0C7V5;P62875;Q5TEC3;P56524;Q96CB8;Q86YF9;Q6P280;Q6ZMY9;O43309;Q9HBT7;Q96NJ6;Q8NAP3;A8MT65;Q09FC8;P62877;Q9P255;Q8IWY8;Q9UII5;P51522;Q9NRL2;Q7RTV3;P53992;P49910;Q9Y2D9;Q8IW36;Q8WTR7;Q6NUN9;Q8IY57;Q8WXI9;Q96SR6;P04731;Q9UKT9;O14771;P52736;Q9UM63;P38935;Q9Y5A6;Q14258;Q8IYN0;Q92785;Q99676;B1APH4;C9JN71;Q9UC07;P51786;Q969J2;Q8TAQ5;Q8WU90;P55197;Q9Y2X9;P29083;O75152;Q969R5;Q96EP1;Q66K41;P15336;P10828;Q2M1K9;O60481;P62508;Q01844;Q9NZL3;Q8NHY2;Q6IE81;Q15776;Q5SXM1;Q9NW38;O95271;Q9Y2A4;Q02930;Q08ER8;Q86Y01;Q13642;Q86W11;Q08AG5;Q8N490;Q2QGD7;Q9NYJ8;Q9UL41;Q14585;P51523;O75150;Q8N720;Q9NWF9;P07438;Q6ZN79;Q9Y5J9;Q9ULJ6;Q8N7Q3;Q8N141;Q8TA94;P17028;Q9UL40;Q15637;Q96PQ6;Q9NSJ1;P09234;P13056;Q9BUY5;Q6P9A1;Q9UHF7;Q8WXB4;O43439;Q92900;Q9H5T1;Q9H091;Q9UFP1;Q3KNV8;Q8NC26;P52594;Q6V9R5;Q9Y3Y4;O75346;Q13114;Q9BYK8;P49790;O14802;Q9UNY4;P26358;O95391;O75312;Q8NHY6;P16415;Q9Y6R6;Q9Y473;Q9BUG6;P98182;Q9ULD9;Q6ZMV8;Q92793;Q8N823;Q8TF39;P35226;Q2VY69;P13682;Q9UIS9;Q9Y468;Q13127;Q9ULV3;Q6ZQV5;Q96NG5;Q14593;Q9P0T4;Q969S3;P27797;P52741;Q8NB42;Q5BKZ1;Q7Z2W4;P0CB33;O75928;Q03938;Q8IYB9;Q13129}

Pathogen[ P03410] interacts with 1064 human partners: {Q9NSD4;O60711;Q15650;Q96EG3;Q86UW9;Q9HAW0;P84022;Q9Y2P7;Q14202;Q400G9;Q8N9Q2;Q9HCG1;Q8WV99;Q8IYW8;Q96NI8;A8K8V0;Q6AW86;Q5CZA5;Q9H0M5;Q8NHY2;Q9BWE0;Q9UHF7;Q9BSM1;Q4G163;Q96QT6;P08048;O14771;Q9Y2L8;Q9BV68;Q9HC78;Q9ULU4;Q8N1W2;Q96JB3;Q6ZNG0;O14901;Q6ZNA1;O15392;P17031;Q5HY98;Q5SVZ6;P47944;Q8IXJ6;O43309;Q6ECI4;Q9UFP1;Q96RE9;Q6V9R5;Q5JVJ2;O60281;Q8NBF1;O43439;Q14588;Q9Y5L4;Q96BR6;Q5EBM4;O75290;B2RFX5;Q9BYN7;Q5JNZ3;Q8TAU3;Q8IYN0;Q9NHW8;P0C7V5;Q86WB0;Q96FI4;Q8WYH8;O75925;Q8IXK0;Q6ZNA4;Q12873;P0C7X5;P50479;Q9UDW3;Q9HAH1;Q5T619;Q9UL41;Q9NTG7;Q01081;Q03112;Q6ZMY9;O95218;A6NNJ1;O95639;A6NN14;Q32M78;E7ETH6;Q9UNY4;Q9NP64;Q9Y2Y9;Q13106;Q8N9Z0;Q8NDW4;Q9NZL3;Q9UDV7;Q14593;Q96EY9;P52594;Q14526;Q9UK13;Q8N8E2;Q96N58;Q5SXM8;Q2M3W8;Q14974;Q8N8Z8;P62072;Q86YD7;P16415;Q96N22;Q8TFC1;Q13360;A6NE21;Q15697;Q96T23;O75373;Q99496;O95780;A8K0R7;Q5VUA4;Q86VM9;P0CJ79;Q8WV99;Q9H9CM9;Q14929;Q8TF68;P0CH99;P17040;O95628;Q8TCN5;P30622;Q15047;Q96H86;P15621;Q9NPA5;P37275;Q15637;P36954;P13682;Q96JM3;Q9H4T2;Q8N587;Q9UL59;Q15047;Q9NWT6;P36508;Q5VWV9;P58317;Q9UJ41;Q96C28;Q3KNV8;Q8IYH5;Q8N7M2;Q96N38;Q9BRH9;Q86XF7;Q15696;Q3MJ62;P98169;A6NDX5;Q96CB8;Q8WVZ3;Q8WTR7;Q96CS4;Q92804;Q9UDV6;P07438;Q9UPW5;Q9HAZ2;Q99676;Q92994;Q9NVV9;P15822;Q8NA19;Q9H7R0;Q96K80;O15151;P52738;Q9HBT8;Q9Y2J0;Q16629;Q15973;P52740;P12755;P29728;Q9NV72;Q9P2R6;Q76KX8;Q5T0B9;Q66K89;Q96SZ4;Q92000;Q8WUB8;Q9P0U4;P98182;Q8TDD2;O94855;Q8N680;P80297;Q9H9D4;Q96SQ5;Q9H4I2;Q96JL9;Q02447;Q6PJT7;O95251;Q9C0D7;Q16600;P63272;O95125;O60481;Q06730;Q92670;O15060;Q9BSG1;Q569K4;Q9P217;Q8N8C0;P0CG23;Q6AZW8;Q6ZMW2;Q6P3V2;Q13077;P53992;Q9UC06;P49356;Q9UII5;A6NFI3;Q15776;Q8NB50;Q8WV44;P0CW20;Q8TDZ2;P04733;Q9C0G0;P25791;O75382;Q9Y6Q3;P10073;Q0D2J5;Q9BQA5;Q9H2M3;Q9GZU2;Q9BYE7;Q3ZCX4;Q14149;Q9Y5J7;P29083;Q6NZY4;Q8TAW3;Q9NQX6;Q8N4W9;Q9NWF9;Q5TAX3;Q9UHK0;Q96KR1;Q8TAQ5;Q9UJ78;A8MXZ1;Q8WUU5;Q9UGP4;Q8TD17;Q8N3J9;Q3KP31;Q9BYK8;A6NNH2;Q96N77;Q8N6T7;Q6PG37;Q8NCN2;Q8N8U3;Q8IYB9;C9JLR9;Q9UIF8;Q9NYG5;Q9BWX1;Q9NR11;A1L020;O75152;Q19AV6;P35789;A6NEW6;Q8WXI9;Q8N9F9;Q8IYX0;Q8TBB1;Q5VZF2;P41238;Q7L2R6;P11532;Q96K62;Q96PQ6;O15504;P35637;Q86WZ6;Q9UPG8;Q6ZM11;Q9H8U3;Q9NYT6;Q9Y6X9;Q92610;Q8NBB4;Q8TF50;P17017;Q8TF45;P07902;Q12830;Q8NFT6;Q5VIY5;Q969S3;Q96ND8;Q9BTC8;Q13490;O60870;Q8IYI8;Q9UPQ4;Q9UNL4;Q8IW36;P24278;Q2M218;Q6P2D0;Q9BYX4;Q08ER8;Q8N339;Q8TF39;Q5FWF6;Q9UK11;A8MT65;Q9HCI7;Q6H8Q1;O43918;A6NHJ4;Q9ULJ3;Q5HYM0;P0CB33;Q8WW27;Q9NXT0;Q9BU19;Q86SE9;Q9Y6X2;Q96JM2;Q9ULD9;P34949;Q9UHD1;Q9NS23;Q96LX8;Q9NR56;Q9UIH9;Q86XU0;O14639;Q2VY69;Q9H4Z2;Q6IQ21;Q96GC6;O75928;Q9HCK1;Q13501;O43294;Q9NPC7;Q86UQ0;O43830;Q9C0F3;Q2M1K9;Q9NZW7;P57071;Q86TJ2;Q0VGE8;Q9H963;Q96N95;Q6NSZ9;Q9Y2K1;A2A288;O75437;Q6Z889;P55895;Q8N2W9;Q9UL58;O14709;Q96K75;Q92785;Q9H8Y5;Q8N720;O94929;P52741;Q5VTR2;Q9Y468;Q86YP4;P13640;P10828;Q6NX45;Q5TA31;Q9UJL9;Q9NSJ1;Q6PF04;O75764;O94892;Q9ULJ6;Q9Y3M9;Q5F1R6;A6NM28;Q9H116;Q03923;Q6PK81;O60260;Q8IYW7;Q9P243;Q9HCL3;O00110;Q68DY1;Q9H7X3;Q13233;Q99684;Q9UIE0;P23193;P30793;Q53GI3;Q8NB42;O60304;Q6U7Q0;P26651;Q09FC8;Q06732;Q6ZN19;P17025;Q52M93;Q8TAT5;Q9NWS9;P35227;P62508;Q8NEM1;Q14596;P51523;Q6KIWS0;Q6ZN55;Q6ZT77;Q8IYL2;Q96HQ0;Q9P2N5;Q5H9K5;Q14258;P28838;Q9H7M6;Q8WW38;P25490;Q96LW1;P52746;Q86VP1;Q96MP5;Q8NFW9;Q15560;Q6IV72;P17036;Q8N490;Q8TCT1;P06703;Q9NTW7;O60663;P51508;Q3MIS6;Q9H707;Q6PII5;Q96SR6;Q5TEC3;B4DXR9;Q8NEP9;O15231;O95171;P17544;Q96MF7;Q5SVQ8;Q16670;Q9BWF2;Q5EBL2;P17010;Q8N1G0;Q9UQR1;P11473;A6NKC0;Q6ZMK1;Q9GZV8;Q15654;Q14587;Q96PE6;Q15928;Q9BRR0;Q05BQ5;Q8TAF7;Q8N8L2;Q96NG8;Q86T29;Q7Z2E3;Q9ULD5;A8MXJ8;Q9GZT9;Q96IF1;Q8TBK6;Q02930;Q9Y2T3;O95789;Q96MN9;P10072;Q9UBF6;P26358;O15535;O60384;A8MX19;Q6GPH4;Q6ZN06;Q96BV0;Q14590;O75151;Q9HCL6;Q9UK10;Q9BUG6;Q13127;Q8WXB4;P17022;Q96GE5;Q5SXM1;Q9UKT9;P25800;Q9Y2X9;Q6ZMS4;Q08AN1;P17029;Q7L3S4;Q8IYP9;A6NIX2;Q9C0B9;Q9C035;Q8N823;Q12986;Q7Z340;Q9UBZ4;Q8TB69;Q96H40;Q15436;Q8NEK5;Q93052;Q3KQV3;P17038;Q14966;Q13472;Q8TBZ5;P38395;Q8N3F8;Q9BR11;Q86Y01;Q86YF9;Q5T6S3;Q96KR4;Q9BWM5;P49790;Q6NUN9;Q8IX07;Q8IY57;A8MWA4;Q9Y2Q1;O75150;Q3KNS6;P51814;Q6IQ32;P10074;Q9Y3D2;Q6ZNH5;Q9UL40;Q9NQV7;P17026;Q01538;Q92782;Q9NTJ4;Q9BS31;Q6EKJ0;Q9UIL8;Q9HCE3;Q02386;Q8NEA6;Q9NRL2;Q9BWX5;P0CG31;P43243;P04731;Q9UK12;P52737;Q96I27;Q7Z398;Q13342;Q15437;Q8N5A5;P62273;O95602;Q96GM8;Q8N972;Q96B70;Q7Z3I7;Q6ZNT9;Q6PDB4;Q969G9;Q6PDB4;P17028;Q8N883;Q49A33;Q8NCK3;Q9UKN5;P17019;Q15942;Q96C00;Q8NAP3;Q9UNY5;Q03924;Q9Y3S2;Q9Y3C5;Q7Z6J0;Q86XK2;Q32MQ0;Q68DY9;P17030;Q9BS34;P52743;Q9P0L1;Q9UBS8;Q13129;Q13330;Q9ULV3;O00463;P52736;A6NGD5;Q9UGR2;Q9NYJ8;Q9HD42;

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9164

Pathogen[ P14075] interacts with 571 human partners: {Q8N490;Q0D2J5;Q9NZL3;Q9C0F3;Q5VTR2;P53804;Q494X3;P17029;Q68DY1;Q9NTW7;Q7Z2E3;Q8NI51;Q9NSC2;O60663;Q8TAQ5;Q8N6T7;P51815;Q969S3;Q96GM8;Q8TAT6;Q15929;Q669R5;Q3KNV8;Q96MT3;Q96PM5;P11532;P42677;Q9Y5A6;Q969J2;Q86SE9;Q9Y5J9;Q92900;A8MTY0;Q9Y5J9;Q96GE5;Q9GZU2;Q5SVZ6;Q8N3Z6;B4DXR9;Q9GZT9;Q8N141;Q13105;P55198;Q6ZN08;Q9H4I2;Q9UKJ3;Q969R5;O15265;Q9UM63;C9JLR9;P51523;Q14526;P52737;P0C7X2;Q9NV72;Q96KR1;Q96QT6;Q9UQR1;Q8NEM1;Q8WU90;P62072;Q8NC26;Q8N488;P04733;Q9NTX7;Q96NJ6;Q5BKZ1;P11474;Q2M3W8;Q9BQA5;Q15928;Q8IY57;Q14593;P0CI00;A6NHJ4;P80297;O60481;P52747;P10828;Q96QC0;Q8NA42;Q14588;Q13064;Q92782;Q86XF7;Q15697;O60765;Q8NBB4;Q6ZNG1;Q9Y2A4;Q6U7Q0;Q12901;Q9UNY4;Q8T2D3;Q6PJT7;P0CB33;P52736;Q96MR9;P47944;Q15937;Q96SZ4;Q9UKN5;O95391;Q9H7R5;Q9H116;Q00403;Q7L2R6;O75362;Q6NUN9;Q9Y252;Q9Y3Y4;Q9P2R6;P29083;P23769;Q9NRL2;Q9UID6;Q9Y2G7;P59923;P26651;Q6P9A1;Q9UBP1;P28698;Q9ULU4;Q9Y468;Q8N782;P09234;Q9H7R0;P38935;Q96SL8;Q9UGP4;Q14839;P34949;P62633;Q9HBT7;Q86WB0;O15015;Q96C28;P11161;Q6ZQV5;Q15428;Q96ND8;Q6P1X5;P49792;P56524;Q96PU4;Q9UK11;O43918;P17036;Q01844;O14709;Q9H9Z2;P18146;Q9NYW8;Q15047;O75312;O95625;Q6ECI4;Q8TE76;Q3MIS6;O94776;O75925;Q5VZL5;Q9HAH1;P17019;P15822;O95218;Q92994;A8MT65;Q96IT1;O43167;Q5TAX3;Q9H091;O95159;Q9HAW0;Q8TAF7;Q8WW38;P15336;Q8N2W9;Q9UL58;Q15560;Q9BRR0;Q08AN1;Q96N95;P0CH99;Q8NHY6;O15304;Q03936;Q6ZMV8;P53992;Q13398;Q53GI3;Q86W11;Q8N7Q3;Q14585;Q9ULJ3;Q9BYE7;Q13642;P26358;P13056;O75290;Q95VWG9;O75081;A7E2V4;Q9Y2Q1;P17040;Q8N5C8;Q92785;Q16670;Q8WV37;Q9HAZ2;O43255;Q9HCM9;Q9NW38;Q7RTV3;Q8N5A5;Q9ULD5;Q8WV99;P07438;Q96NI8;P17098;Q96MN9;Q9UHK0;A8MUZ8;O60870;Q8WTR7;P24278;A4D1E1;Q86XN6;Q5TEC3;Q86VM9;Q8IYI8;Q8N5U6;P49116;O95628;Q9NWF9;P46100;Q9HCL3;Q6IE81;Q8IWS0;P25791;Q06587;Q5VIY5;O95487;Q9H5I1;P07902;Q19AV6;O75478;Q5VUA4;Q12986;Q6ZNA4;Q92670;Q15326;Q8TA94;Q9NQX1;Q9NZV7;Q4LE28;Q86VP1;P49754;A6NGD5;Q06455;Q12874;Q13490;P23193;Q9NR56;Q05481;Q15437;Q9UNY5;Q12830;P52746;Q93083;Q12933;Q8N4W9;Q9P0L1;Q9BUY5;Q9NTG7;Q32M78;Q96N22;Q15650;P13640;P52742;Q8N7M2;Q99684;Q9BYN7;Q8N3J9;Q9HCG1;Q6NZY4;Q9H8G1;Q6ZM17;Q9H963;O95780;Q68CP9;Q8NDQ6;Q15637;Q9ULX6;Q9Y2D9;Q9H9D4;Q9UIS9;P46939;P51504;P52744;O15014;Q9UPN9;Q8NAP3;Q05BQ5;Q9UHF7;Q6PG37;O43189;P62273;P27797;O75150;Q8IYX0;Q9UKT9;P0CG00;P11473;Q9Y6X8;O75928;Q6IV72;Q8N587;Q8N895;Q96IR2;P19474;Q01081;Q9UIF9;A6NIX2;O95251;O14628;Q9BR84;Q8NB42;Q9C035;Q8IYB9;Q9Y3S2;Q13114;Q9NWT6;Q86YI8;Q3ZCT1;Q8TBK6;Q96BD5;P55197;P78317;P80294;Q15436;O14639;Q6ZN79;O14978;Q8TA86;Q14258;Q8NHY2;Q99496;Q9Y2L8;Q07352;A8MWA4;Q8N9Z0;Q66K41;Q9BSG1;Q6IQ32;Q15935;Q15654;Q03112;P52743;Q8N988;A8MUJ8;A8MVS1;P17028;Q9UIF8;Q8WY41;Q7Z2W4;P52594;Q9UK10;Q66K89;P98168;Q8NF99;A8K8V0;Q8IYL2;P17010;Q14134;Q9UNL4;Q02447;O95602;Q86YE8;Q96BR6;P02795;Q5HYH8;Q9Y2X9;P15621;Q49AA0;Q13342;P98182;P0C7V5;Q12330;O15504;P49711;Q96LW9;Q96H40;Q96T23;Q32MQ0;Q96N20;Q92793;P28702;O43463;O95376;Q8TF47;Q96PQ6;Q6P9G9;Q13127;Q9UBS8;Q8IW36;P35226;Q9HD42;Q3MJ62;Q9Y2P7;Q99590;Q9UDV6;Q8TF39;O43439;Q05516;Q9NP64;P35637;Q15022;O60711;P04731;Q9Y5J7;Q86XK2;Q6ZN06;Q96GC6;P10074;Q9UL40;Q13129;Q09FC8;P56270;P35789;O60304;Q96N38;P17022;Q8N448;Q969W8;Q49A33;O94855;Q5TA31;Q9Y473;Q9ULJ6;Q8TB69;Q96LW1;Q03923;Q14974;O95125;P84022;Q86V71;P49790;Q9H7S9;O43309;P62875;Q8N720;P37275;P30793;Q96MF7;Q13360;Q8WYH8;Q8WTZ3;A6NK53;Q2M1K9;O95271;Q86Y01;O75800;O43823;Q13233;P04732;Q9UK13;Q8TBB1;Q96NG5;P17544;A1A519;Q7Z3K3;Q

9UII5;Q2QGD7;Q9H160;Q6ZMY9;P55895;Q9BX82;Q9NYG5;O60260;B4DX44;Q8N859;P28838;Q9GZX5;Q86V15;Q5FWF6;P49910;Q96N77;Q12873;O75151;Q16629;P52434;Q9BSM1;Q8N0Y2;Q8WXI9;Q63HK3;O95486;Q9ULV3;Q86YF9;Q9NRG4;Q6P1K8;Q8WXB4;Q9ULD9;Q9Y6X2;Q9NVV9;P63272;Q9UBW7;Q70YC5;Q9H0F6;Q14872;Q68EA5;Q15776;Q14192;O75437;Q9BYK8;Q14802;Q9UBF6;Q9Y462;Q02930;P10073;Q5JVG8;P62508;O43829;Q9BTC8;Q8NEP9;Q08AG5;Q96CB8;Q8IYW8;C9JN71;Q8NF64;Q95201;Q76KX8;Q9Y2Y9;P13501;Q09874;Q8N823;P62877;Q8N972;Q16775;P35227;O75346;O75164;Q86UW9;A6NP14;Q8N7K0;Q6P280;Q96EP1;B1APH4;Q86YP4;Q8TF32;Q6S9Z5;P51948;Q86TG7;Q9Y6R6;Q15072;Q5T200;A2A288;O75152;Q8IYW8;Q9UL41;Q3KP31;O14771;Q9BUG6;P53803;Q9HBE1;P52741;Q9UC07;Q03938;Q9NYJ8;Q13888;P08047}

9165

Pathogen: [P0C206] interacts with 1179 human

partners: 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9166

Pathogen[ P03363] interacts with 973 human

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9194 Pathogen[ P14079] interacts with 1 human partners:{Q9UHB9}  
9195 Pathogen[ P03383] interacts with 1 human partners:{Q9UHB9}  
9196 Pathogen[ P03410] interacts with 1 human partners:{Q9UHB9}  
9197 Pathogen[ P14075] interacts with 1 human partners:{Q9UHB9}  
9198 Pathogen[ P0C206] interacts with 1 human partners:{Q9UHB9}  
9199 Pathogen[ P03363] interacts with 1 human partners:{Q9UHB9}  
9200 [Cluster 837]GO:0043531+F molecular\_function [name] ADP binding [def] "Interacting selectively and non-covalently with ADP, adenosine 5'-diphosphate." [GOC  
9201 Pathogen[ Q2Q067] interacts with 2 human partners:{P11142;P35579}  
9202 Pathogen[ P0C214] interacts with 7 human partners:{P68133;Q9UM54;P35580;P14618;O14727;P48163;P11142}  
9203 Pathogen[ P03346] interacts with 3 human partners:{P35579;P11142;O14727}  
9204 Pathogen[ Q85601] interacts with 6 human partners:{P68133;P35579;P14618;P11142;P35580;Q9UM54}  
9205 Pathogen[ P14079] interacts with 6 human partners:{P35579;P11142;P25705;Q9UM54;P52701;P68133}  
9206 Pathogen[ P03383] interacts with 3 human partners:{P11142;P35580;P35579}  
9207 Pathogen[ P03410] interacts with 7 human partners:{P25705;P11142;P35579;Q9UM54;P52701;P68133;P35580}  
9208 Pathogen[ P14075] interacts with 2 human partners:{P11142;P35579}  
9209 Pathogen[ P0C206] interacts with 7 human partners:{Q9UM54;P52701;P68133;P35579;P35580;P11142;P14618}  
9210 Pathogen[ P03363] interacts with 3 human partners:{P35579;P68133;P11142}  
9211 [Cluster 838]GO:0030674+F molecular\_function [name] protein binding, bridging [def] "The binding activity of a molecule that brings together two or more protein molecules, or a protein and another macromolecule or complex, permitting those molecules to function in a coordinated way." [GOC  
9212 Pathogen[ Q2Q067] interacts with 19 human partners:{P46108;P35321;P23490;P20749;P50502;P39880;Q86YP4;P15924;Q9UHK0;P22528;O00255;P78560;P59998;Q96T76;Q9UNE7;Q96PK6;Q9NY27;P45973;P07476}  
9213 Pathogen[ P0C214] interacts with 19 human partners:{P35321;P07476;P15924;Q9NY27;Q9UHK0;P23490;Q86YP4;Q16658;P20749;P59998;Q96PK6;P39880;P45973;P78560;P46108;Q9UNE7;O00255;Q96T76;P50502}  
9214 Pathogen[ P03346] interacts with 21 human partners:{P15924;Q969H4;P35321;P45973;P50502;Q9NY27;P07476;P78560;P59998;O00255;Q86YP4;Q9UNE7;P23490;Q9UHK0;P46108;P20749;P22528;Q16658;P39880;Q96PK6;Q96T76}  
9215 Pathogen[ Q85601] interacts with 17 human partners:{Q96T76;P35321;Q96PK6;Q9NY27;P46108;P59998;P15924;Q86YP4;P45973;O00255;Q9UHK0;P50502;P39880;Q9UNE7;P23490;P20749;P78560}  
9216 Pathogen[ P14079] interacts with 24 human partners:{P04083;P22528;P62333;Q16658;P07476;P15924;P39880;Q9NY27;Q86YP4;Q9UHK0;P45973;Q9NQT6;P35321;P23490;Q92817;Q969H4;P20749;P59998;O00255;O15273;P50502;Q96T76;Q96PK6;P46108}  
9217 Pathogen[ P03383] interacts with 17 human partners:{P23490;P15924;Q96T76;P35321;P50502;Q86YP4;P20749;P78560;P59998;P45973;Q96PK6;Q9UHK0;P07476;O00255;P22528;P39880;Q9NY27}  
9218 Pathogen[ P03410] interacts with 23 human partners:{P20749;P23490;P15924;Q96T76;Q96PK6;Q16658;P78560;P50502;P22528;Q9UHK0;P59998;P35321;P45973;Q86YP4;Q969H4;O15273;Q9UNE7;P39880;P46108;O00255;Q92817;Q9NY27;P07476}  
9219 Pathogen[ P14075] interacts with 17 human partners:{P78560;P35321;P23490;P45973;P39880;Q9UHK0;O00255;Q9NY27;Q96PK6;P50502;P22528;P59998;P07476;Q96T76;P20749;Q86YP4;P15924}  
9220 Pathogen[ P0C206] interacts with 21 human partners:{P45973;Q9UHK0;P78560;O00255;P59998;Q86YP4;P23490;P50502;P35321;Q16658;Q9UNE7;Q96PK6;Q9NY27;Q96T76;P15924;P20749;P46108;P39880;Q969H4;P07476;P22528}  
9221 Pathogen[ P03363] interacts with 22 human partners:{P35321;P50502;Q86YP4;P45973;P23490;Q9UHK0;Q96PK6;P15924;P20749;Q969H4;P59998;Q96T76;Q9UNE7;P22528;P46108;P78560;P07476;Q9NY27;P39880;Q16658;Q9P2Q2;Q92817}  
9222 [Cluster 839]GO:0004693+F molecular\_function [name] cyclin-dependent protein kinase activity [def] "Catalysis of the reaction  
9223 Pathogen[ Q2Q067] interacts with 7 human partners:{P30281;P50750;P50613;P49336;P24941;P11802;Q00534}  
9224 Pathogen[ P0C214] interacts with 10 human partners:{P50750;P50613;P11802;O94921;Q00534;P21127;Q00536;P49336;P30281;P24941}  
9225 Pathogen[ P03346] interacts with 9 human partners:{P30281;Q00536;P21127;P49336;P24941;P11802;P50750;Q00534;O94921}  
9226 Pathogen[ Q85601] interacts with 10 human partners:{P30281;Q00536;P50750;P49336;P11802;O94921;P50613;P21127;Q00534;P24941}  
9227 Pathogen[ P14079] interacts with 6 human partners:{Q14004;P49336;Q15078;P50613;P21127;P50750}  
9228 Pathogen[ P03383] interacts with 11 human partners:{Q9NYV4;Q00536;Q00534;P11802;P21127;P49336;P50613;P24941;P50750;O94921;P30281}  
9229 Pathogen[ P03410] interacts with 7 human partners:{Q00534;P50613;P50750;P24941;P11802;P49336;P30281}

9230 Pathogen[ P14075] interacts with 11 human partners:{P49336;P24941;P11802;P30281;P50613;Q00534;P50750;P21127;O94921;Q9UQ88;Q9NYV4}

9231 Pathogen[ P0C206] interacts with 10 human partners:{P49336;P50750;Q00536;P50613;P21127;P24941;P11802;O94921;Q00534;P30281}

9232 Pathogen[ P03363] interacts with 8 human partners:{P21127;P24941;Q00534;P49336;P50750;P11802;P30281;Q00536}

9233 [Cluster 840]GO:0004614+F molecular\_function [name] phosphoglucomutase activity [def] "Catalysis of the reaction

9234 Pathogen[ Q2Q067] interacts with 3 human partners:{P36871;Q96G03;Q6PCE3}

9235 Pathogen[ P0C214] interacts with 4 human partners:{Q6PCE3;Q96G03;P36871;Q15124}

9236 Pathogen[ P03346] interacts with 3 human partners:{P36871;Q6PCE3;Q96G03}

9237 Pathogen[ Q85601] interacts with 4 human partners:{Q15124;P36871;Q6PCE3;Q96G03}

9238 Pathogen[ P14079] interacts with 4 human partners:{Q15124;Q6PCE3;Q96G03;P36871}

9239 Pathogen[ P03383] interacts with 2 human partners:{Q96G03;Q6PCE3}

9240 Pathogen[ P03410] interacts with 4 human partners:{Q6PCE3;P36871;Q15124;Q96G03}

9241 Pathogen[ P14075] interacts with 2 human partners:{Q96G03;Q6PCE3}

9242 Pathogen[ P0C206] interacts with 4 human partners:{Q96G03;Q15124;Q6PCE3;P36871}

9243 Pathogen[ P03363] interacts with 2 human partners:{Q6PCE3;Q96G03}

9244 [Cluster 841]GO:0008127+F molecular\_function [name] quercetin 2,3-dioxygenase activity [def] "Catalysis of the reaction

9245 Pathogen[ Q2Q067] interacts with 1 human partners:{000625}

9246 Pathogen[ P0C214] interacts with 1 human partners:{000625}

9247 Pathogen[ P03346] interacts with 1 human partners:{000625}

9248 Pathogen[ Q85601] interacts with 1 human partners:{000625}

9249 Pathogen[ P14079] interacts with 1 human partners:{000625}

9250 Pathogen[ P03383] interacts with 1 human partners:{000625}

9251 Pathogen[ P03410] interacts with 1 human partners:{000625}

9252 Pathogen[ P14075] interacts with 1 human partners:{000625}

9253 Pathogen[ P0C206] interacts with 1 human partners:{000625}

9254 Pathogen[ P03363] interacts with 1 human partners:{000625}

9255 [Cluster 842]GO:0048257+F molecular\_function [name] 3'-flap endonuclease activity [def] "Catalysis of the cleavage of a 3' flap structure in DNA, but not other DNA structures\_ processes the 3' ends of Okazaki fragments in lagging strand DNA synthesis." [GOC

9256 Pathogen[ Q2Q067] interacts with 2 human partners:{Q96NY9;Q8IY92}

9257 Pathogen[ P0C214] interacts with 2 human partners:{Q96NY9;Q8IY92}

9258 Pathogen[ P03346] interacts with 2 human partners:{Q96NY9;Q8IY92}

9259 Pathogen[ Q85601] interacts with 2 human partners:{Q96NY9;Q8IY92}

9260 Pathogen[ P14079] interacts with 2 human partners:{Q96NY9;Q8IY92}

9261 Pathogen[ P03383] interacts with 2 human partners:{Q8IY92;Q96NY9}

9262 Pathogen[ P03410] interacts with 2 human partners:{Q8IY92;Q96NY9}

9263 Pathogen[ P14075] interacts with 2 human partners:{Q96NY9;Q8IY92}

9264 Pathogen[ P0C206] interacts with 2 human partners:{Q96NY9;Q8IY92}

9265 Pathogen[ P03363] interacts with 2 human partners:{Q8IY92;Q96NY9}

9266 [Cluster 843]GO:0005070+F molecular\_function [name] SH3/SH2 adaptor activity [def] "Interacting selectively and non-covalently and simultaneously with one or more signal transduction molecules, usually acting as a scaffold to bring these molecules into close proximity either using their own SH2/SH3 domains (e.g. Grb2) or those of their target molecules (e.g. SAM68)." [GOC

9267 Pathogen[ Q2Q067] interacts with 13 human partners:{Q92783;P46108;Q96JZ2;Q13625;P50616;Q86WV1;O14508;Q07666;O75791;Q9ULZ2;Q9BX66;Q9BVN2;O75368}

9268 Pathogen[ P0C214] interacts with 18 human partners:{P55822;Q8WV28;P62993;Q13625;Q9BX66;Q96JZ2;Q07666;Q9UQC2;P50616;O14508;Q9ULZ2;Q86WV1;Q9BVN2;O75791;Q92783;P46108;P98171;O75368}

9269 Pathogen[ P03346] interacts with 25 human partners:{Q13588;P98171;Q9H6Q3;Q13322;Q9ULZ2;Q9UQC2;P62993;Q9BX66;O14508;Q07666;Q14847;P55822;P50616;P46109;Q13625;Q12929;P78314;P46108;Q96JZ2;Q92783;Q9BVN2;Q8WV28;Q86WV1;O75368;O75791}

9270 Pathogen[ Q85601] interacts with 16 human partners:{Q9ULZ2;P62993;Q07666;Q9UQC2;Q9BX66;Q9BVN2;P46108;O14508;Q86WV1;Q9H6Q3;P55822;Q13625;Q92783;P50616;Q96JZ2;O75791}

9271 Pathogen[ P14079] interacts with 23 human partners:{Q12929;Q86WV1;Q9BVN2;O75368;P98171;P46109;Q92783;Q14847;Q13625;P55822;Q9ULZ2;O75791;Q8WV28;Q07666;Q96JZ2;Q9H6Q3;O14508;P62993;O43561;Q9BX66;P50616;Q9UQC2;P46108}

9272 Pathogen[ P03383] interacts with 9 human partners:{O75791;Q86WV1;Q13625;Q9ULZ2;Q07666;Q92783;P50616;O75368;Q9BVN2}

9273 Pathogen[ P03410] interacts with 23 human partners:{Q9BVN2;Q9UQC2;Q86WV1;P55822;P98171;Q9ULZ2;O43561;Q8WV28;Q92783;O75368;Q07666;O14508;Q14847;P46108;Q96JZ2;Q13625;P62993;P46109;Q12929;Q9BX66;O75791;Q9H6Q3;P50616}

9274 Pathogen[ P14075] interacts with 10 human partners:{O75791;Q07666;Q9BVN2;Q92783;Q86WV1;P55822;P50616;Q13625;Q9ULZ2;O75368}

9275 Pathogen[ P0C206] interacts with 18 human



partners:{Q9H6Q3;Q13625;Q07666;Q92783;O75791;P62993;Q96JZ2;P50616;O14508;Q86WV1;P9817  
1;Q9BX66;O75368;Q9ULZ2;P46108;Q9UQC2;P55822;Q9BVN2}

9276 Pathogen[ P03363] interacts with 23 human  
partners:{Q07666;O75368;Q9BX66;Q96JZ2;Q86WV1;Q92783;Q14847;Q13625;Q8WV28;Q9H6Q3;P9817  
1;P46109;O75791;P50616;P78314;Q9ULZ2;Q13480;Q13588;Q12929;P46108;Q9BVN2;O14508;Q9UQC2  
}

9277 [Cluster 844]GO:0017130+F molecular\_function [name] poly(C) RNA binding [def]  
"Interacting selectively and non-covalently with a sequence of cytosine residues in an  
RNA molecule." [GOC  
9278 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13310}  
9279 Pathogen[ P0C214] interacts with 1 human partners:{Q13310}  
9280 Pathogen[ P03346] interacts with 1 human partners:{Q13310}  
9281 Pathogen[ Q85601] interacts with 1 human partners:{Q13310}  
9282 Pathogen[ P14079] interacts with 1 human partners:{Q13310}  
9283 Pathogen[ P03383] interacts with 1 human partners:{Q13310}  
9284 Pathogen[ P03410] interacts with 1 human partners:{Q13310}  
9285 Pathogen[ P14075] interacts with 1 human partners:{Q13310}  
9286 Pathogen[ P0C206] interacts with 1 human partners:{Q13310}  
9287 Pathogen[ P03363] interacts with 1 human partners:{Q13310}

9288 [Cluster 845]GO:0043565+F molecular\_function [name] sequence-specific DNA binding  
[def] "Interacting selectively and non-covalently with DNA of a specific nucleotide  
composition, e.g. GC-rich DNA binding, or with a specific sequence motif or type of DNA  
e.g. promotor binding or rDNA binding." [GOC  
9289 Pathogen[ Q2Q067] interacts with 301 human  
partners:{Q13562;Q9H4I2;Q14526;O43365;Q9UKI9;P27540;P17544;P01100;Q9Y6X8;Q92988;Q1623  
6;O43364;O15525;Q8IX15;Q9NRF9;Q12837;Q9Y5Q3;Q03052;P56524;Q10587;Q15631;A6NFK7;Q7Z353  
;P10827;Q9Y462;P09067;Q06416;Q63HK5;P0CJ88;Q9Y2D1;O00470;Q9UBX2;Q6ZN32;Q01094;P40763;  
P78424;P14921;Q5VZB9;Q9H2P0;Q9HAZ2;P36402;Q15910;Q9NR55;O60481;Q13485;Q01543;P10589;P  
35680;Q14549;P31274;P13056;P31268;Q8IUE1;Q9UHF7;P62508;O14813;P35712;P41182;Q9Y2X9;P1  
0828;Q01664;Q96IS3;P18847;P0CJ87;P49716;P41970;O60004;Q9BZE3;Q00613;P37275;Q02930;P49  
116;O60315;Q04206;P50548;Q96MA1;Q9ULV5;Q8IXT2;P39880;P18850;P50549;Q8IUE0;P17483;O947  
76;O15266;P36956;O95948;P41161;P0C7M4;Q9NQX1;Q7Z5D8;Q9Y5R5;Q16520;P15976;Q9BWX5;Q8N19  
6;Q03933;P28356;O15350;P35638;Q16534;Q2M1K9;Q8N1L9;Q86YP4;Q96SC8;P09086;Q94993;P17676  
;P17482;P11308;E9PGG2;P08047;P11473;Q15022;Q01892;P09017;O95416;P11831;P20265;O43248;  
Q6NT76;P28702;Q96PT3;P11388;P28069;O60663;Q9UKW6;P78545;P09629;Q9NS37;P54845;Q9Y4A8;Q  
00444;Q15723;Q15744;Q8N7G0;Q08050;Q14765;Q8N5F1;O43524;Q96G23;Q8N5J4;Q13469;P78412;P5  
5347;A6NLW8;P23769;P35548;Q4G112;P20719;P15036;P40426;Q59GR2;Q15699;A8MZ59;Q9BTC8;Q8N  
7R0;O14867;Q9ULX9;O43711;Q9UKY1;O75505;Q96SZ4;Q6IQ32;P84022;P78414;P50221;P10914;Q133  
30;P0CJ89;Q8WUU5;P0CJ90;Q96GC6;Q00056;Q9P2R6;Q01658;Q6NSW7;P31276;O15499;Q92769;O0025  
5;P14859;O95644;O75444;P28324;Q2M1V0;Q9H116;Q9Y603;Q9UN79;A6NDR6;Q8NI51;Q68CJ9;P41212  
;P0CJ86;P15408;P25208;O15164;P35226;P35869;Q9BQY4;Q9GZN2;P0CJ85;Q8NHW3;Q16621;P14651;  
Q9UPW6;P61244;P55055;O00321;P78337;P23760;O14770;Q99607;P19419;P49639;Q8N7U7;Q99687;P  
41162;P09016;O43812;P19838;Q9H4S2;A8K0S8;O60675;P43268;P20823;Q15583;O75360;A6NJG6;P1  
7861;Q07687;O14529;P15336;Q9BYV9;O43186;P08235;P22415;Q6VB84;Q9UKT9;Q9UMQ3;O95238;P31  
314;P14652;P11474;Q8IUR6;P29083;Q9NY43;Q9P1Z2;P58304;Q8N693;Q8WYK2;Q01860;P18848;Q018  
26;P21675;Q15853;Q9UBD0;O60869;P13682;Q04743;P50222;Q03060;P42226;Q96PT4;A6NJ46;Q6XYB  
7;Q8WXI9;P14653;Q13952;P15923;O60422;P15407;O75376;Q99814;P49711;P40425;Q8N5A5;Q16649  
;Q9NVV9;Q9UQR1;P42224;P22736;Q6RFH8;P07199;Q12830;P54821;Q02078;Q9UPG8;Q96LI6;Q06546;  
P40424;P31269;P53567;P49715;P18146;P17947;P17028;P31260;P32519;Q10586;Q3C1V8}

9290 Pathogen[ P0C214] interacts with 227 human  
partners:{P41970;P40424;O00470;Q9UKW6;P53567;O75444;Q9HA82;Q14526;Q03052;P18850;Q8NI5  
1;Q6IQ32;O14813;P35226;Q9NS37;O14529;P11308;P32243;O43365;P49639;P61244;Q02930;Q15022  
;Q00613;P35869;Q13469;O60663;P11474;Q13330;O95238;Q13952;Q06546;P55347;Q9UHF7;Q9Y4A8;  
P78337;P31249;O00321;P19838;P14921;Q7Z5D8;Q8N5A5;P15336;P21675;Q96LI6;O43186;P31314;P  
15407;P25208;Q8N693;P42226;Q8NHW3;O15350;Q14765;Q9BZE3;Q16621;P01100;Q9NR55;O15266;P1  
7275;P32519;P23769;P50548;P19419;P15408;P84022;P17947;Q9P2R6;P56524;Q6NT76;P17544;P11  
831;Q04206;Q16520;Q2M1K9;Q63HK5;Q9Y5Q3;P42224;P37275;Q68CJ9;P10914;P17482;Q9UPG8;Q9UK  
I9;Q15910;Q99607;Q8N5J4;P07199;Q96SZ4;Q9H4I2;P17676;P14651;Q03933;Q8N7U7;O43248;Q5VZB  
9;P49716;Q10587;Q10586;P20265;Q02078;P13056;Q01094;P18848;O14867;P17535;Q12837;P49116  
;Q07687;P15923;O95416;Q9NVV9;O94776;P17861;Q6RFH8;O43812;P14653;Q86YP4;Q13485;P18847;  
Q92769;Q9HAZ2;P17028;P50222;P28324;Q96G23;Q9Y603;Q9UN79;Q8WXI9;O75376;Q9ULX9;O15525;Q  
01543;Q96GC6;Q99687;P41182;Q9Y6X8;P11388;Q9BQY4;Q01892;P43268;Q9Y2D1;Q9NRF9;P28069;P1  
3682;Q9BTC8;O75360;Q9Y2X9;P36402;Q9ULV5;Q9Y462;P39880;Q9UBD0;Q9UKT9;Q8IUR6;P05412;Q9U  
MQ3;P49711;Q01826;P18146;Q16534;Q15631;O15164;Q8N196;Q9NQX1;Q15853;Q03060;P40425;Q998  
14;P09086;Q01658;P09629;Q59GR2;P15036;P40763;Q96004;P27540;P50221;Q9UPW6;P78545;P5054  
9;O14770;Q92988;P41162;P22415;Q9P1Z2;P10828;O95644;P16220;O60869;O95948;O60315;Q6ZN32  
;P54845;Q9UQR1;Q8IX15;O15499;P62508;Q01664;Q15699;P14859;Q01860;Q3C1V8;O60675;P35712;  
P41161;P35548;P08047;O00255;Q12830;Q8N1L9;Q9NY43;P35638;P29083;P31276;Q9Y5R5;P18846;O  
94993;P23760;Q9H2P0;Q15723;Q16236;Q9H116;P31269;P41212;Q4G112;O60481}

9291 Pathogen[ P03346] interacts with 446 human  
partners:{Q15723;P31271;P85037;Q3C1V8;Q9NPC8;Q8N7U7;P31249;P49716;P54821;Q8NI51;P4790  
2;P05412;Q12830;P78424;O75603;P49639;Q16621;Q9UHF7;Q13263;Q9NZR4;P35453;O75364;P31260  
;P50219;P09086;Q02078;Q9NQX1;P52954;P10827;E9PGG2;P0CJ88;P11473;P31268;P28324;Q99811;  
Q6QHK4;Q99687;Q8IUE1;Q8N7R0;Q9UD57;P50221;P18847;Q8N1L9;O14813;P58012;P78337;Q99598;O  
15522;Q9H116;Q7RTS3;Q9UPW6;A6NJ46;P16220;Q9UQR1;Q9H2W2;P06401;Q96BA8;P17676;Q9H2Z4;Q0  
3052;P78414;P36402;P15336;Q99607;Q9BQY4;Q05925;P78415;P36956;Q9H2P0;Q03828;Q00613;P35



638;P35548;Q9BYU1;P08235;P11831;P11388;P31270;Q9Y5W3;Q8IUE0;Q9UKT9;Q7Z5D8;Q8NFW5;P48443;P0CJ87;Q4G112;P40426;Q14774;O43711;P35226;P54845;Q70SY1;O60393;P50549;Q12772;Q96SZ4;Q9BZE3;O60315;Q9BWX5;Q03933;Q9UKI9;Q99626;Q12837;Q00056;Q15911;Q2M1K9;P17275;P49116;Q6XYB7;Q9UIU6;P17861;P23769;Q8N693;P0C7M4;Q15583;P19419;Q9H4S2;O75505;P14859;Q8IYA7;P25208;P150548;Q8IX15;Q9NR55;Q9C0A1;P20264;P15923;Q6VB84;P78413;P23760;P56524;Q6NSW7;P15408;P17535;P19622;Q04743;Q92858;P31276;A6NFQ7;Q8N5A5;Q16520;Q04206;P0CJ85;O95238;O94776;P13056;Q9NQ69;O00321;P52951;P41161;P56177;Q92826;Q04741;Q63HK5;Q08050;Q9BPY8;P42226;Q8IUR6;Q9Y5Q3;P23759;P10588;Q96QS3;P14652;O43186;Q9Y2D1;P27540;Q8N5J4;Q9NP08;P58304;A6NJT0;P20823;P0CJ89;O15350;O75626;Q9UBX0;O60902;Q9Y5R5;O43316;P14653;Q9NR33;O00409;P31269;A2RU54;P13378;P17483;Q9NRF9;O95644;Q01094;P49715;Q9ULX9;P31274;Q9UBC0;Q01860;O14867;P20719;O75444;P78426;P0CJ90;P08047;Q15853;P20265;P18850;Q14919;Q16236;Q9HB31;O60663;Q14526;O96004;O43364;P41162;P51843;O43365;Q15699;P28702;P28358;P50222;P18848;Q2M1V0;P14921;Q06710;P84022;P11308;P31275;Q9HCS4;Q9BYV9;Q8WUU5;Q14863;O60481;O95231;P2736;P15976;O15266;O95096;Q13469;Q9GZN2;Q15631;Q06546;O00255;O60519;P17481;O95863;Q969G2;P10914;Q96PT4;P49640;O60479;O95948;Q59GR2;Q15022;Q9P2R6;Q9H4I2;Q86YP4;Q92769;Q6ZN32;Q8WXI9;O15499;O95076;Q8IXT2;Q9P1Z2;Q96G23;Q6IQ32;P40425;Q9UN79;O00470;P28356;P09017;Q16534;Q9NZC4;P49711;Q13330;P17544;P09629;Q9Y6X8;Q15744;P37275;P35680;P31273;Q16649;Q15475;O14627;Q99814;Q12778;P42224;Q9Y462;Q9Y5R6;Q9UBX2;Q01167;Q8N196;O75376;P98177;Q6BEB4;Q9UBD0;P09016;O95718;Q06416;P78367;P78411;P35713;Q15910;O75469;O94993;P09630;P15407;P41182;A6NNA5;Q8N5P1;A8K0S8;P17028;A6NDR6;O95475;Q68CJ9;P31267;Q96MA1;P61244;Q96SC8;Q92481;Q13952;O15525;Q9H2C1;P21675;P35712;P32242;P32519;P55347;A6NMT0;P41970;P62508;P10828;Q9UBR4;O60422;A8MTQ0;P28069;O43763;P17947;Q01658;Q99929;Q9GZZ0;Q99593;P11474;Q5XKR4;Q10586;Q8N7G0;P78412;P40424;P41212;P19838;Q03060;P56178;Q13485;P13682;Q15270;P07199;O75360;O43812;P31314;Q9UKY1;Q9UPG8;P53567;A6NLW8;Q96IS3;Q9Y2X9;Q96KN3;P29083;P18146;P43268;Q96LI6;Q9NQL9;Q6RFH8;Q7Z353;P39880;Q9Y603;Q8TEY5;O60869;Q9UKW6;P35869;P78545;O00482;Q5VZB9;Q14765;Q02930;O60675;Q9HAZ2;Q9ULV5;Q8TAU0;Q9H9S0;Q6NT76;Q10587;O75593;Q13562;Q96GC6;Q01892;Q9BTC8;Q9BZ11;P40763;P35398;Q99729;Q8NHW3;P32243;O43524;Q86UP3;Q68G74;P56915;Q9NS37;O95343;Q13285;Q9NVV9;P01100;Q9U1W0;Q9UMQ3;P49335;Q01664;Q9NY43;P53539;A6NJG6;P15036;P09067;P17509;O15164;Q00444;O95416;O14529;P0CJ86;Q01826;P55055;A8MV59;O43248;Q8WYK2;Q96PT3;Q14549;Q14770;Q01543;P14651;P18846;P35452;P17482;Q6ZNG2;Q8NHV9;P22415;Q9HBU1;Q9Y4A8;Q92988;Q15319;Q99581;Q9UJU5;Q9H2A3;P10589}

9292

Pathogen[ Q85601] interacts with 299 human

partners: {Q9UQR1;Q9P2R6;P18146;Q68CJ9;Q8N196;Q8NI51;Q8IXT2;P78424;P49639;P09629;Q9UHF7;Q7Z5D8;P11831;Q15853;Q9UPG8;Q02078;P17676;P15036;O60481;O75360;P11473;Q96SZ4;P25208;Q96MA1;O14529;O15499;O43316;Q8IUE1;Q16236;O14813;Q14765;P17028;Q9BWX5;Q99687;P09086;Q6XYB7;Q01892;Q9UPW6;A6NJ46;Q8IUR6;P15976;Q96SC8;O94776;A6NNA5;P14921;Q9ULV5;Q03052;P13682;Q06546;P50548;Q9Y603;Q14549;A6NDR6;Q16621;P0CJ87;Q8N7R0;P53567;P54845;P50549;P14653;Q8N7U7;Q9BZE3;O43248;O60315;Q03933;Q9H116;Q2M1K9;P15407;Q8N7G0;P18848;P19419;P40763;P28702;P28069;P32519;P14859;O60663;Q23769;P41970;P78545;Q9Y2X9;Q96PT3;Q96IS3;Q8N5A5;Q16520;Q15723;Q12772;O43364;P35712;Q10587;Q15583;A6NFQ7;P18846;Q8N1L9;Q99814;P27540;Q8IUE0;Q13469;P07199;O15164;P78337;Q6NT76;O95644;O96004;P41162;Q00613;O15525;P55055;P49711;Q13952;Q12830;Q9Y5Q3;P10914;P08047;Q9NRF9;Q13562;P01100;Q15022;Q13263;Q8NHW3;P41212;Q14526;Q6IQ32;P22415;Q9BQY4;Q9H4I2;P31260;P50222;O75444;P40424;P49716;P0CJ88;P17535;Q9NQX1;Q9NVV9;Q9BYV9;Q02930;Q9UMQ3;Q9UBX0;A6NJG6;O15266;P0CJ90;P0CJ89;Q16649;P18847;O95948;P36956;Q86YP4;O95416;Q9UKW6;Q92769;P16220;Q15699;Q04206;Q8WXI9;P42226;Q96G23;P40425;Q9UN79;Q3C1V8;Q13330;P22736;Q01543;Q9Y6X8;Q15744;Q96GC6;P35548;Q5VZB9;P35680;P05412;Q9H2P0;Q9Y4A8;P11388;P29083;O00255;P18850;Q01826;Q9UKI9;O75376;O00470;P42224;Q9Y462;P08235;O43711;Q6ZN32;Q01658;P11474;P15923;P36402;Q8N5J4;P10827;P58304;O43812;P32243;O14867;Q2M1V0;Q8N693;O94993;Q9BTC8;Q8WUU5;P0C7M4;Q8N5P1;P17544;A8K0S8;P31249;O00482;P61244;P84022;Q99607;P31271;P49715;Q9Y2D1;P41161;P55347;P37275;P56524;P31274;P62508;O60422;P17947;P21675;Q15910;Q08050;P35869;Q9GZN2;P35226;Q16534;Q9Y5R5;O15350;Q9UBX2;P50221;P31314;P49116;P14651;Q9UKY1;O75626;P13056;P40426;O43365;P43268;Q96LI6;P15336;P10828;P41182;Q6NSW7;Q6RFH8;Q9NS37;P39880;Q59GR2;P31276;O60869;Q9P1Z2;Q9HCS4;Q06416;Q4G112;O60675;Q63HK5;P17275;P19838;P20823;Q12837;Q13485;Q9UBD0;Q9H4S2;Q01664;Q9NY43;P53539;P17861;P31269;Q01860;Q03060;Q00444;P28324;Q9UKT9;Q15631;Q7Z353;Q9ULX9;Q07687;Q8WYK2;Q01094;O14770;P23760;P0CJ86;P11308;P15408;A6NLW8;Q9NR55;Q8IX15;P17482;P20265;Q10586;O00321;O95238;P0CJ85;P35638;Q92988;Q9HAZ2;O75505;P10589}

9293

Pathogen[ P14079] interacts with 278 human

partners: {Q96SC8;P07199;Q7Z5D8;Q13952;Q9UQR1;Q9UPW6;Q9NQX1;E9PGG2;P11388;P15036;Q8N7U7;P13056;O15164;Q8WYK2;P0CJ89;Q9HAZ2;O14867;P0CJ88;P0C7M4;P62508;Q4G112;Q6XYB7;P55055;O95416;Q10587;Q9Y5Q3;O43364;P35869;Q02078;Q99814;Q9BWX5;Q8N196;Q8IUE1;Q8N693;Q06546;P14859;Q96PT4;A8K0S8;P78337;Q16649;Q2M1V0;Q15853;O00321;O60481;Q99581;O75626;Q15911;Q68CJ9;Q15723;P35398;P53567;Q96LI6;P11473;P35680;P20265;Q8IXT2;Q9NRG0;P55347;P09086;A6NJG6;P10828;P08235;O95948;Q9Y5R5;Q9607;Q9NVV9;P39880;Q15583;Q8N5A5;P0CJ86;Q15699;Q1330;Q03060;P11474;Q6ZN32;O95644;O60675;Q01826;P35712;Q8IX15;P58304;Q9GZN2;A8MZ59;Q9HA82;O96004;P22736;O43812;P15976;Q9NY43;P32519;Q9H2P0;Q86YP4;O60869;P41161;Q96SZ4;P31271;P15923;Q9NS37;P48443;Q8N7G0;Q03933;Q14765;P10827;Q12837;P54845;O15350;Q15744;P09629;O60315;P36402;P11308;O95718;Q6BEB4;P28069;Q12772;Q9UKY1;P31276;P0CJ90;Q99687;Q6NT76;P42226;Q9NZC4;Q3C1V8;Q15631;Q00613;Q01892;P41182;P31274;Q01543;Q8N5J4;P0CJ87;Q9UPG8;Q14549;Q9NRF9;Q9BZE3;Q01860;O00482;P17544;Q6RFH8;O95238;Q92769;O43711;Q02930;P49715;Q96G23;O60663;O15266;A6NFQ7;O75469;P31269;Q2M1K9;P27540;Q12830;Q9P2R6;P50549;A6NLW8;P17275;P15336;Q8NHW3;P28702;Q9BQY4;O75360;Q9Y2X9;Q5VZB9;Q01664;P31249;P78424;Q9UBD0;Q9BYV9;Q96MA1;Q96PT3;Q9Y603;Q9ULX9;O43365;Q9UMQ3;P35638;Q16621;Q9BTC8;O75444;Q16236;Q00444;P42224;P10588;P35226;P18850;P32243;P41212;P50548;Q8N5P1;Q8N1L9;Q04743;Q07687;O14770;Q8IUE0;Q9Y5W3;O15525;Q9UN79;P15407;Q96IS3;O75376;O14529;Q63HK5;A6NNA5;P41162;Q9UKI9;P78414;Q9NR55;P78545;Q99598;Q15910;Q03052;P10589;Q13469;Q6IQ32;Q7Z353;P49116;O75505;P

- 05412;Q8WUU5;P13682;O15499;Q9Y4A8;P56524;O14813;P49716;Q06416;P49639;Q16534;Q9UBX2;Q9H4I2;P28360;Q92988;Q9Y6X8;O00470;Q94776;Q9P1Z2;P36956;Q9ULV5;Q01094;A6NDR6;O00255;P15408;P61244;P01100;P78412;Q10586;P23769;Q01658;Q9NR33;Q9UKW6;Q9UHF7;P41970;P49711;Q15022;P50222;Q94993;Q16520;Q9Y462;P37275;P17535;P50221;P0CJ85;Q8NI51;P10914;P29083;Q6NSW7;P19419;P21675;Q8IUR6;P14651;Q9H116;Q9UKT9;Q96GC6;Q8N7R0;P17028;P23760;P22415;Q8WXI9 }
- 9294 Pathogen[ P03383] interacts with 198 human partners: {Q9UQR1;Q15723;Q68CJ9;Q8IX15;Q8NI51;O00470;Q12830;P10914;O15266;P11831;P15036;P35712;P50549;Q13485;Q96SZ4;P08047;Q9UPW6;Q9BTC8;Q99607;Q9UKI9;P16220;P27540;Q8N1L9;P28069;Q13469;P17544;Q8IUR6;P32243;Q9H4I2;Q94776;P49711;Q01094;P14921;O75376;Q14526;Q07687;Q9Y5Q3;Q9Y5R5;Q86YP4;P40424;Q6NT76;P49116;Q9P2R6;P14859;Q9UKW6;O75360;P17482;Q9UMQ3;O95644;P18847;P17861;Q01826;P19419;Q96LI6;P23769;P50222;P37275;P31276;Q6RFH8;P35638;O43365;P15923;Q16520;Q01860;P42226;P18846;Q8N693;Q13330;Q15631;P15408;P78337;O00321;Q9NQX1;Q15022;P18146;P41162;O15525;Q6IQ32;Q01664;P31249;P55347;P25208;Q9HAZ2;O14770;Q4G112;O96004;P11473;P41161;P11474;Q013952;Q01892;Q16621;P54845;P49639;P84022;P11308;Q9NVV9;P35548;P28324;Q9ULV5;Q99687;Q92769;Q6ZN32;O60663;P17676;O43711;Q9UN79;P15407;P28702;Q8N5A5;Q12837;Q01543;Q9Y6X8;O15350;Q00613;O00255;Q7Z5D8;Q9Y462;P31269;P36402;Q8N5J4;P41212;Q16236;P31314;Q15853;Q9H116;Q96GC6;O95238;P01100;P43268;O43186;P39880;P23760;P21675;P56524;P41970;P32519;Q9Y4A8;Q15910;Q04206;Q10586;P17535;P78545;Q9NY43;Q8WXI9;P53567;Q9UKT9;O60675;P07199;P50221;P50548;Q8N7U7;Q9Y2X9;P29083;P15336;P10828;Q9NS37;P18848;Q2M1K9;P18850;O60481;P62508;O60869;Q8N196;P09629;Q9Y2D1;Q15699;P17275;P20265;O75444;P61244;P19838;P35869;P17028;Q9UBD0;Q16534;Q9Y603;P13056;Q01658;Q9ULX9;Q9UHF7;Q06546;Q3C1V8;Q92988;Q03060;P17947;Q59GR2;Q9P1Z2;P40425;Q02078;P35226;P14651;P13682;P22415;Q9BQY4;Q03933;P05412 }
- 9295 Pathogen[ P03410] interacts with 284 human partners: {P84022;O75505;Q96LI6;O14813;Q00613;Q9UHF7;P40426;Q04206;P28069;Q9BZI1;P35712;P11831;Q9NS37;P0CJ87;P19838;Q68CJ9;P36956;Q96PT3;O60675;Q8N5J4;P35638;Q14526;O95238;Q59GR2;O00470;Q8N7R0;Q8N7G0;Q8WYK2;P17482;P17861;P37275;P13682;P41162;Q16520;Q9HAZ2;Q9NVV9;O96004;P31274;P19419;P31276;Q14549;Q9P2R6;Q9UN79;P17676;Q96SZ4;Q9BYV9;Q9UMQ3;Q9H4I2;P18847;Q99814;P17947;O60481;Q01860;P54845;Q8IUE0;P21675;P41212;P09629;P29083;P18848;P36402;P50222;P50221;O15266;Q9Y2D1;Q8WUU5;P14651;P53567;P14859;Q8WXI9;P78545;Q9UPG8;O75444;P28324;Q16236;Q3C1V8;Q12830;Q2M1V0;Q9BZE3;Q9BTC8;Q4G112;P31249;Q14765;Q96GC6;Q6NSW7;Q2M1K9;P78414;Q9UBX2;Q99687;Q03060;P0CJ85;A6NNG6;A6NNA5;Q86YP4;O95948;P10828;O00321;Q9NRG0;Q9H116;O75376;P31314;P49716;P32519;Q8N7U7;P15923;Q99607;Q03052;P0CJ90;Q9UPW6;P62508;Q03933;Q5VZB9;Q96SC8;Q9UKW6;P01100;P18846;P61244;A6NFQ7;P15408;A8K0S8;O60663;Q96G23;P17544;P50549;Q9UQR1;P11473;Q9Y603;Q6ZNG2;A6NJ46;O95644;Q9BQY4;Q02930;Q9P1Z2;Q6RFH8;Q96MA1;Q9Y5Q3;P27540;Q9UKT9;O15525;Q9Y2X9;Q15583;P41161;Q92988;Q07687;P35548;Q6IQ32;P15036;A8MZ59;Q16649;Q92769;Q9BWX5;Q8N5A5;P17535;P17028;A6NLW8;Q9HA82;Q7Z353;P17275;Q12772;Q13330;Q16621;P0CJ89;P25208;P56524;Q01826;P43268;P31269;Q01658;P22415;Q13485;P10914;Q9ULX9;Q13952;P22736;P28702;Q9NRF9;P16220;Q9Y6X8;P78412;Q8N196;O43364;Q15699;Q13469;Q15910;P41182;Q15853;Q9NR33;P05412;Q8IUR6;Q99598;P39880;P49639;Q10586;Q6XYB7;P49711;A6NDR6;P42226;P11388;Q8NI51;Q8N1L9;Q9UKI9;P0CJ88;P55347;Q8IUE1;P32243;P11474;P0CJ86;P23769;Q8NHW3;Q94776;Q9HCS4;Q01664;Q01094;P35680;O60869;P49116;Q96IS3;P10589;Q10587;Q02078;Q16534;O15350;P07199;P41970;Q15631;Q9GZN2;O43812;Q9Y462;P08047;P50548;P23760;O43711;Q9UBD0;O75626;Q06416;Q63HK5;Q8N693;Q9ULV5;P15407;E9PGG2;Q9Y4A8;O75360;Q15744;O94993;P20265;Q12837;P11308;Q9NY43;P18146;Q8IX15;P35226;O95416;O00255;O14867;P40424;P78424;Q04743;P08235;P15336;Q9NQX1;Q15723;Q9NR55;O60422;Q96PT4;P40763;Q9UKY1;P18850;Q6ZN32;Q8IXT2;O43365;P15976;O14770;P0C7M4;Q06546;Q15022;Q7Z5D8;Q01543;P78337;Q01892;P14921;P13056;O15499;O14529 }
- 9296 Pathogen[ P14075] interacts with 193 human partners: {P28069;Q8N196;Q8NI51;P35869;O60663;Q99607;Q6RFH8;Q6ZN32;Q00613;P50548;Q04206;P21675;P17482;Q9H4I2;Q9Y5R5;P78337;P40424;Q14526;Q99687;Q9UQR1;Q8N5J4;P05412;P42226;P40425;P11474;Q9Y2D1;Q01543;P14859;P11831;O60481;Q8N1L9;P10828;P78545;P17861;O00470;P53567;P25208;P07199;Q96SZ4;Q01658;O75444;Q9H116;P17275;Q9Y4A8;Q06546;P43268;Q9P2R6;P29083;P23769;P61244;P19419;P41212;P18847;Q01860;Q9UBD0;Q03933;P35548;Q12837;P56524;Q08050;O43186;P18146;O60675;Q16520;P20265;Q9Y603;Q94776;P35638;P31249;Q9ULX9;Q15910;Q92988;P15336;P15923;P15408;Q13952;O43365;P13056;P39880;Q07687;P31269;O75376;Q01826;Q4G112;Q9HAZ2;P27540;P55347;Q8N5A5;P41162;O96004;Q13485;O00255;P09629;Q10586;P15036;Q15853;P49116;O14770;Q15631;Q8N7U7;Q9NY43;Q9ULV5;P28324;Q9NQX1;P32519;Q9UPW6;Q01664;P54845;Q12830;P50221;Q13469;O15350;Q8N693;Q92769;Q01892;Q9Y5Q3;P35712;Q9UN79;Q9UHF7;Q15723;Q9UKT9;P11473;Q9Y6X8;P17947;P11308;Q8IX15;Q9P1Z2;P18848;O75360;O43711;Q9UMQ3;Q01094;P14921;P36402;Q6IQ32;Q02078;P17028;P50549;Q3C1V8;Q68CJ9;P01100;O15525;Q9Y2X9;Q13330;P49711;Q96LI6;P28702;Q9UKW6;Q15699;P35226;P31314;P31276;Q15022;P19838;Q03060;Q96GC6;O15266;P16220;Q9UKI9;P41970;P22415;P84022;P15407;Q16621;P23760;P17676;P37275;Q16236;O60869;Q2M1K9;P10914;P17544;P17535;P32243;Q8WXI9;Q8IUR6;Q9NS37;Q9NVV9;Q6NT76;Q7Z5D8;Q9Y462;Q02930;P62508;Q9BTC8;P50222;O95644;Q9BQY4;Q86YP4;P18846;O00321;P18850;Q16534;P08047 }
- 9297 Pathogen[ P0C206] interacts with 347 human partners: {Q15723;P84022;Q9NQX1;Q9Y2X9;P53567;Q07687;P10588;P0CJ87;Q8IX15;P10914;Q92769;P78424;Q16649;Q03060;A6NDR6;Q8IUR6;Q7Z353;Q15270;O60481;Q00444;P0CJ90;Q9Y2D1;Q96G23;P35398;Q06546;O43711;P31269;P31314;P06401;O14867;O60393;Q13469;P40425;Q9NRF9;Q9HAZ2;P13682;Q9Y5Q3;P14921;Q15911;Q9NY43;Q06416;Q9Y4A8;Q9NR55;Q02078;O15266;A6NNA5;Q13263;Q9H4I2;Q8WUU5;P15407;O43365;Q04743;P16220;P17275;Q9Y5R6;P09067;Q9UN79;Q9NR33;P35869;P17544;Q15744;O75444;P18850;Q8N7R0;O43812;P41212;P78414;Q01860;P41182;P54821;P49639;Q99598;O14529;Q00613;O00470;P35226;Q9UBX2;O75469;Q6ZN32;Q8WXI9;O00255;Q03933;Q9UMQ3;P05412;P78411;P19419;P50221;Q8WYK2;Q8NI51;Q9Y462;P14651;Q92988;Q8N196;O15499;Q9UBC0;P1533

6;P0CJ86;Q8N7G0;Q15631;P55055;P43268;O75626;P17535;P13056;P49715;O94776;P31268;P36956;P17483;Q9HCS4;O15164;P41970;Q9P1Z2;P18846;P0CJ89;O14770;Q86YP4;O15525;P54845;Q13330;P15976;P49116;P22736;Q15910;Q10587;Q15699;O00321;O95238;Q9Y603;Q96IS3;O00482;Q9Y6X8;P40424;Q969G2;P0CJ85;P11308;Q9P2R6;P18146;Q96MA1;O75360;O96004;P14653;P17861;P10589;Q9BZE3;Q9BWX5;Q63HK5;P32519;Q15853;Q12837;P14652;A8MZ59;Q9GZN2;Q9BYV9;Q13952;O95718;P78337;Q6ZNG2;O43248;P49640;P41162;Q5VZB9;P19838;Q9H4S2;Q8IXT2;Q99581;Q14919;P10828;P22415;P62508;Q9ULV5;P40426;P09086;Q68G7;Q9HA82;Q6XYB7;A6NFQ7;P50549;P32243;P17676;P78413;O94993;A6NJ46;O14813;P08047;P17482;P29083;A6NJG6;Q9UHF7;Q6RFH8;Q6IQ32;Q8N5P1;Q01658;P35680;P49711;P35548;P01100;Q8N7U7;Q9H2C1;Q04206;O75505;Q9Y5R5;Q9UPW6;Q9UKI9;P0CJ88;P15923;Q01094;Q9UQR1;P20823;O95416;P53539;Q9NS37;Q8N693;Q3C1V8;P28324;Q03052;P78545;P17947;Q02930;Q16534;P17028;Q96GC6;Q8NHW3;A6NLW8;Q8N1L9;O75376;Q9BQY4;P15036;P40763;Q13485;Q9BZI1;P25208;P61244;P0C7M4;Q8N5J4;P23760;Q15022;Q9H116;Q2M1K9;O60869;Q13562;E9P GG2;P23769;P11831;Q08050;Q59GR2;O60315;Q16520;Q13422;Q01664;Q6NSW7;P18847;Q4G112;P07199;P49716;P42226;Q7Z5D8;Q9UKW6;P28702;P37275;P35712;Q16236;P20265;P31271;O15350;Q16621;Q9UPG8;Q01826;Q99687;P27540;Q14863;Q9UKT9;Q9H9S0;O43364;P31274;P11388;Q14765;Q9UBR4;O60663;P11474;Q96LI6;Q9NZC4;Q99814;P39880;Q96SC8;P09629;O95644;Q14549;Q9H2P0;P56524;Q14526;P28356;P28069;Q96SZ4;P20719;Q8TAU0;O60675;Q96PT4;P41161;A8K0S8;P31249;P42224;P50548;Q6VB84;Q9UBX0;Q6NT76;P09016;Q01892;P78412;P36402;P18848;Q8IUE0;Q8N5A5;O60422;Q9UBD0;Q12830;O43763;Q01543;Q2M1V0;P15408;Q99607;P11473;Q12772;P08235;O43316;P58304;P35638;P31260;Q9NVV9;P10827;P21675;P14859;P56177;Q8IUE1;Q10586;Q9ULX9;Q68CJ9;Q15583;Q9UKY1;Q9BTC8;P48443;P31276;Q96PT3;P55347;Q9H2A3;O95948;P50222}

9298 Pathogen[ P03363] interacts with 390 human partners: {Q16236;Q9NQX1;P56179;Q15911;Q9NR55;Q15699;Q9UBC0;P13682;O15266;P31273;O43812;P17535;Q9GZN2;P18848;Q9UIW0;P35453;Q8NFW5;P49716;Q16649;Q14765;Q12830;Q99592;P10828;Q9UHF7;O95948;Q59GR2;P19622;P29083;P47902;Q9NZR4;P78415;Q6XYB7;P0CJ87;P0CJ88;Q9BYU1;P09067;O75360;P31274;O14529;Q04206;Q15853;Q99598;P27540;P17676;O60481;P18146;P49116;P0CJ86;Q9UBX2;O60315;Q02930;Q86UP3;Q7Z353;Q99626;P53567;Q9C0A1;Q14526;Q8N7R0;Q9UN79;Q9BYV9;P56177;Q3C1V8;Q9NVV9;P36402;P78424;Q86YP4;Q8IUE1;P78412;P53539;P31267;Q14863;O43365;Q15022;Q06546;A8MTQ0;Q13952;Q03933;O60422;Q9UKW6;Q96LI6;P62508;P14651;Q15744;O6063;Q9NS37;Q8N7U7;P18847;Q99929;Q10586;Q9NRF9;O43763;P37275;P0CJ89;Q9Y4A8;P28356;P23760;P09086;Q9H2P0;P17947;Q01892;P78413;P20719;Q7RTS3;P31271;Q8NHW3;P18850;Q9H2W2;Q01826;Q9UKI9;P17481;Q9Y6X8;O75376;Q16520;Q01543;Q9Y462;Q15910;O60902;Q99607;P11474;P16220;Q9Y2D1;P78414;Q8N196;O43316;Q16621;P58304;Q15631;P19419;Q96SC8;P14921;P35548;P50548;Q96IS3;Q9Y603;P78411;Q96GC6;Q6NT76;P32243;O14867;Q06479;Q6BEB4;O95231;Q8N693;Q9HCS4;P43268;P55347;P17028;O43248;E9PGG2;Q9Y2X9;P49639;O95476;P17483;Q8N1L9;Q9H4S2;P8K0S8;O00409;Q8WYK2;A6NDR6;P0CJ90;P35869;P17275;P42226;P17509;P31249;Q99729;P49711;P54845;P61244;O00321;P07199;P14653;P50221;P10588;Q96PT4;Q9BZE3;P11473;P40425;O43524;P15923;P15336;Q9UD57;Q2M1K9;O15499;P32519;Q2M1V0;Q8N7G0;Q8WXI9;Q9BTC8;Q08050;P13378;P0CJ85;P11831;Q96MA1;P28702;Q9BPY8;P20264;P28069;P14859;P28358;Q6ZNG2;Q00444;P56915;Q8N5P1;P11308;Q9UPG8;A8MZ59;Q8IX15;O95238;Q9GZZ0;Q96KN3;P08235;Q6ZN32;A6NJT0;Q9NZC4;Q6VB84;P78545;Q14549;Q8IXT2;Q9P1Z2;P32242;P18846;Q01094;P35226;Q9Y5R5;O75444;P14652;O75505;Q9NP08;O43186;O15525;P31260;A6NMT0;Q06416;Q8N5A5;P17861;Q4G112;Q14919;P20265;Q15723;P31268;Q15270;P84022;Q01167;P31314;Q8N5J4;P41161;Q68CJ9;Q9UKY1;O96004;Q9H2Z4;Q00056;P35638;P10914;Q92826;O00470;Q05925;Q15583;P35398;Q5XKR4;P50549;P15407;P22415;A6NFQ7;P54821;P23759;Q9HB31;P19838;Q99814;Q6NSW7;Q6RFH8;Q96SZ4;P09016;P31276;P50222;O60869;Q13469;P21675;Q92988;Q9BWX5;P35712;O60393;O43711;Q13485;O95076;Q9ULV5;P17482;P52951;P49335;P78367;P31269;Q63HK5;Q9UQR1;Q99687;Q9C056;P41162;O95644;A6NLW8;Q8IUR6;Q9BQY4;Q9BZI1;Q96QS3;O94993;Q8IUE0;P05412;Q6IQ32;P40424;Q96G23;Q9H116;Q04741;A2RU54;Q00613;Q9UKT9;O60675;P0C7M4;Q99581;Q5VZB9;P09629;P40426;P35452;Q13330;O95343;Q8IYA7;P41970;Q9NR33;O95416;O43364;Q03828;P08047;Q9UMQ3;Q96PT3;Q9NY43;Q8TAU0;O75626;Q01658;O95475;P17544;Q9P2R6;P09630;Q99811;Q8NHW9;Q16534;P41212;P09017;Q9UJU5;O15522;P39880;Q9H9S0;Q9ULX9;Q07687;A6NJG6;P78337;Q12837;P50219;P25208;Q9UPW6;Q9UBD0;Q9H4I2;P10589;P15408;P13056;Q9NPC8;Q9Y5Q3;Q01664;A6NNA5;P15036;Q01860;P31275;O14813;Q03060;O14627;Q03052;Q10587;Q9HBU1;A6NJ46;Q7Z5D8;Q04743;O94776;P28324;Q8WU5;Q15319;Q9HAZ2;P01100;Q9UBX0;Q9H2A3;P49640;Q6QHK4;O00482;Q02078}

9299 [Cluster 846]GO:0008599+F molecular\_function [name] protein phosphatase type 1 regulator activity [def] "Modulation of the activity of the enzyme protein phosphatase type 1." [GOC

9300 Pathogen[ Q2Q067] interacts with 3 human partners: {Q9UD71;Q12972;Q9Y2W2}

9301 Pathogen[ P0C214] interacts with 3 human partners: {Q9Y2W2;Q9UD71;Q12972}

9302 Pathogen[ P03346] interacts with 4 human partners: {Q9UD71;Q15435;Q9Y2W2;Q12972}

9303 Pathogen[ Q85601] interacts with 3 human partners: {Q9Y2W2;Q9UD71;Q12972}

9304 Pathogen[ P14079] interacts with 3 human partners: {Q9UD71;Q9Y2W2;Q12972}

9305 Pathogen[ P03383] interacts with 3 human partners: {Q9UD71;Q12972;Q9Y2W2}

9306 Pathogen[ P03410] interacts with 3 human partners: {Q9Y2W2;Q12972;Q9UD71}

9307 Pathogen[ P14075] interacts with 3 human partners: {Q9UD71;Q9Y2W2;Q12972}

9308 Pathogen[ P0C206] interacts with 4 human partners: {Q15435;Q9UD71;Q12972;Q9Y2W2}

9309 Pathogen[ P03363] interacts with 4 human partners: {Q9Y2W2;Q12972;Q9UD71;Q15435}

9310 [Cluster 847]GO:0070097+F molecular\_function [name] delta-catenin binding [def] "Interacting selectively and non-covalently with the delta subunit of the catenin complex." [GOC

9311 Pathogen[ Q2Q067] interacts with 1 human partners: {Q9NYF0}

9312 Pathogen[ P0C214] interacts with 2 human partners: {Q5SW24;Q9NYF0}

9313 Pathogen[ P03346] interacts with 2 human partners: {Q9NYF0;Q6IQ23}

9314 Pathogen[ Q85601] interacts with 3 human partners: {Q9NYF0;Q6IQ23;Q5SW24}

9315 Pathogen[ P14079] interacts with 4 human partners: {Q6IQ23;Q5SW24;Q96B18;Q9NYF0}

9316 Pathogen[ P03383] interacts with 1 human partners:{Q9NYF0}

9317 Pathogen[ P03410] interacts with 4 human partners:{Q96B18;Q5SW24;Q9NYF0;Q6IQ23}

9318 Pathogen[ P14075] interacts with 1 human partners:{Q9NYF0}

9319 Pathogen[ P0C206] interacts with 4 human partners:{Q96B18;Q5SW24;Q9NYF0;Q6IQ23}

9320 Pathogen[ P03363] interacts with 2 human partners:{Q9NYF0;Q6IQ23}

9321 [Cluster 848]GO:0004519+F molecular\_function [name] endonuclease activity [def] "Catalysis of the hydrolysis of ester linkages within nucleic acids by creating internal breaks." [GOC

9322 Pathogen[ Q2Q067] interacts with 38 human partners:{Q9Y2M0;Q96SD1;Q15631;Q5D1E8;P55895;Q92889;Q8NCE0;P49959;Q9Y2L1;Q99708;Q9NRR4;Q9UIF7;O60930;Q9H777;P27695;Q12972;Q9BSV6;A4GXA9;P52758;Q86US8;Q9BQ83;P54278;Q9UQ84;Q9BRX2;O15527;Q9UKV8;P39748;P78549;P23396;Q86UW6;Q9H9J2;Q96NY9;Q96AY2;Q9UKF6;Q9BQ52;O75792;A2A288;P28715}

9323 Pathogen[ P0C214] interacts with 39 human partners:{P27695;Q9H9J2;Q9BQ83;P49959;Q9UKF6;Q92889;P23396;Q9Y2L1;Q96SD1;Q86UW6;Q9BRX2;Q96NY9;Q99708;Q9H777;Q9Y2M0;O75792;Q9BSV6;P28715;A2A288;Q86US8;P55895;Q96AY2;Q9BQ52;Q9UIF7;O60930;Q9NRR4;A4GXA9;Q9UKV8;Q15631;Q9C0D7;P39748;P78549;Q9UQ84;Q12972;P52758;P54278;O15527;Q5D1E8;Q8NCE0}

9324 Pathogen[ P03346] interacts with 43 human partners:{P28715;A2A288;Q96SD1;Q86US8;P52758;Q9UKF6;O60930;P07992;Q99708;P55895;Q9UIF7;Q96AY2;Q96NY9;Q13609;Q15631;Q9Y2L1;Q5D1E8;Q86UW6;Q9H777;Q9UKV8;P49959;P78549;P23396;Q92889;Q9UQ84;P54278;Q9NRR4;P24855;Q9BQ83;P27695;Q13283;P39748;O15527;Q9Y2M0;Q9BRX2;Q9UBZ4;Q9BQ52;Q12972;Q9BSV6;A4GXA9;Q8NCE0;Q9H9J2;O75792}

9325 Pathogen[ Q85601] interacts with 40 human partners:{Q9UBZ4;Q9BQ52;Q9Y2M0;O15527;Q9UQ84;P52758;P23396;Q99708;A4GXA9;Q9NRR4;Q96AY2;O75792;P49959;Q9BSV6;Q9H777;Q9Y2L1;Q96NY9;Q92889;P28715;A2A288;Q96SD1;Q12972;Q9UKV8;Q86US8;Q9C0D7;Q9UIF7;P54278;Q9BQ83;O60930;Q86UW6;P39748;P78549;Q9H9J2;Q9BRX2;P27695;Q9UKF6;P55895;Q15631;Q5D1E8;Q8NCE0}

9326 Pathogen[ P14079] interacts with 48 human partners:{P52758;Q9BRX2;Q9UKV8;P23396;Q5D1E8;Q9UIF7;Q13609;P28715;Q96NY9;Q9UKF6;Q9UBZ4;O75792;Q9H777;Q9BSV6;P54278;P49184;O94919;Q86US8;Q8NCE0;O15527;O00115;P78549;Q96AY2;Q14249;A4GXA9;Q15631;Q8N8Q3;Q99708;Q86UW6;Q9NRR4;P24855;Q92889;P27695;Q9BQ52;Q9Y2M0;Q9Y2L1;Q12972;Q9H9J2;Q8WZ79;Q96SD1;Q5HYM0;A2A288;Q9BQ83;O60930;Q9UQ84;P07992;P39748;Q9C0D7}

9327 Pathogen[ P03383] interacts with 30 human partners:{Q9NRR4;Q9Y2L1;P54278;Q9H777;O75792;O15527;A4GXA9;Q12972;Q5D1E8;Q8NCE0;Q9BRX2;Q15631;Q9UKF6;A2A288;Q9BQ52;P52758;Q9BSV6;Q86US8;Q96AY2;P55895;Q9Y2M0;Q9UKV8;Q99708;Q9H9J2;O60930;P27695;P23396;Q9BQ83;Q86UW6;Q96NY9}

9328 Pathogen[ P03410] interacts with 48 human partners:{P49959;Q9Y2L1;Q99708;P49184;Q9UKV8;Q96AY2;A4GXA9;Q9C0D7;P07992;Q13609;O75792;Q9BQ52;Q5HYM0;A2A288;P23396;P55895;Q92889;P39748;Q96SD1;Q9BQ83;P28715;Q9BSV6;P78549;Q9H9J2;Q9NRR4;O60930;Q86UW6;Q9UBZ4;O15527;Q9BRX2;Q5D1E8;Q96NY9;Q9H777;Q86US8;Q9UKF6;P63135;P27695;Q12972;Q15631;O00115;P52758;P54278;Q9UQ84;Q9Y2M0;Q8NCE0;P24855;Q9UIF7;Q14249}

9329 Pathogen[ P14075] interacts with 31 human partners:{Q9BSV6;Q9BQ83;P27695;Q9BRX2;Q86UW6;O15527;O60930;Q9UIF7;Q9H9J2;Q9Y2L1;Q9Y2M0;Q9H777;Q15631;Q86US8;Q8NCE0;Q9BQ52;Q96NY9;P23396;Q9NRR4;Q9UKV8;Q5D1E8;O75792;Q96AY2;P54278;P52758;Q12972;Q9UKF6;P55895;Q99708;A4GXA9;A2A288}

9330 Pathogen[ P0C206] interacts with 46 human partners:{P27695;P54278;Q9UKF6;Q9Y2M0;P28715;Q96AY2;Q17RS7;P49959;Q9BSV6;Q9UQ84;Q99708;O15527;Q9C0D7;A2A288;Q15631;Q9UKV8;Q96SD1;Q9UBZ4;P24855;A4GXA9;P07992;O60930;Q96NY9;Q86US8;P23396;Q92889;O75792;Q5D1E8;Q13609;P55895;Q9NRR4;Q9Y2L1;Q5HYM0;Q9H777;Q86UW6;Q9H9J2;Q12972;Q8NCE0;P39748;Q9BQ83;P52758;Q9BQ52;Q14249;Q9BRX2;Q9UIF7;P78549}

9331 Pathogen[ P03363] interacts with 33 human partners:{P52758;P23396;O15527;Q12972;Q9BSV6;A2A288;Q9Y2M0;Q86US8;Q13283;Q92889;Q9UKV8;Q15631;Q9H9J2;Q86UW6;O75792;Q13609;Q99708;P54278;P07998;Q9Y2L1;Q9BQ83;Q96AY2;Q9UIF7;Q9NRR4;Q9BRX2;Q5D1E8;O60930;P55895;Q9UKF6;P24855;A4GXA9;Q96NY9;Q8NCE0}

9332 [Cluster 849]GO:0035242+F molecular\_function [name] protein-arginine omega-N asymmetric methyltransferase activity [def] "Catalysis of the addition of a second methyl group to methylated peptidyl-arginine. Methylation is on the same terminal nitrogen (omega nitrogen) residue that was previously methylated, resulting in asymmetrical peptidyl-N(omega),N(omega)-dimethylated arginine residues." [PMID

9333 Pathogen[ Q2Q067] interacts with 3 human partners:{Q96LA8;Q9NR22;Q86X55}

9334 Pathogen[ P0C214] interacts with 3 human partners:{Q86X55;Q9NR22;Q96LA8}

9335 Pathogen[ P03346] interacts with 3 human partners:{Q9NR22;Q86X55;Q96LA8}

9336 Pathogen[ Q85601] interacts with 3 human partners:{Q9NR22;Q86X55;Q96LA8}

9337 Pathogen[ P14079] interacts with 3 human partners:{Q9NR22;Q96LA8;O60678}

9338 Pathogen[ P03383] interacts with 3 human partners:{Q86X55;Q9NR22;Q96LA8}

9339 Pathogen[ P03410] interacts with 3 human partners:{Q96LA8;Q86X55;Q9NR22}

9340 Pathogen[ P14075] interacts with 3 human partners:{Q9NR22;Q96LA8;Q86X55}

9341 Pathogen[ P0C206] interacts with 4 human partners:{Q86X55;Q96LA8;Q9NR22;O60678}

9342 Pathogen[ P03363] interacts with 3 human partners:{Q96LA8;Q9NR22;Q86X55}

9343 [Cluster 850]GO:0004816+F molecular\_function [name] asparagine-tRNA ligase activity [def] "Catalysis of the reaction

9344 Pathogen[ Q2Q067] interacts with 2 human partners:{Q96I59;O43776}

9345 Pathogen[ P0C214] interacts with 2 human partners:{Q96I59;O43776}

9346 Pathogen[ P03346] interacts with 1 human partners:{043776}

9347 Pathogen[ Q85601] interacts with 2 human partners:{043776;Q96I59}

9348 Pathogen[ P14079] interacts with 2 human partners:{043776;Q96I59}

9349 Pathogen[ P03383] interacts with 2 human partners:{Q96I59;043776}

9350 Pathogen[ P03410] interacts with 2 human partners:{043776;Q96I59}

9351 Pathogen[ P14075] interacts with 2 human partners:{043776;Q96I59}

9352 Pathogen[ P0C206] interacts with 2 human partners:{043776;Q96I59}

9353 Pathogen[ P03363] interacts with 2 human partners:{Q96I59;043776}

9354 [Cluster 851]GO:0043024+F molecular\_function [name] ribosomal small subunit binding [def] "Interacting selectively and non-covalently with any part of the small ribosomal subunit." [GOC

9355 Pathogen[ Q2Q067] interacts with 2 human partners:{P06748;Q9H2K0}

9356 Pathogen[ P0C214] interacts with 2 human partners:{P06748;Q9H2K0}

9357 Pathogen[ P03346] interacts with 2 human partners:{P06748;Q9H2K0}

9358 Pathogen[ Q85601] interacts with 1 human partners:{P06748}

9359 Pathogen[ P14079] interacts with 4 human partners:{Q9H2K0;P46199;P06748;O75616}

9360 Pathogen[ P03383] interacts with 2 human partners:{P06748;Q9H2K0}

9361 Pathogen[ P03410] interacts with 5 human partners:{Q9H2K0;P46199;P06748;Q96EY7;O75616}

9362 Pathogen[ P14075] interacts with 2 human partners:{Q9H2K0;P06748}

9363 Pathogen[ P0C206] interacts with 2 human partners:{Q9H2K0;P06748}

9364 Pathogen[ P03363] interacts with 1 human partners:{P06748}

9365 [Cluster 852]GO:0036317+F

9366 Pathogen[ Q2Q067] interacts with 1 human partners:{095551}

9367 Pathogen[ P0C214] interacts with 1 human partners:{095551}

9368 Pathogen[ P03346] interacts with 1 human partners:{095551}

9369 Pathogen[ Q85601] interacts with 1 human partners:{095551}

9370 Pathogen[ P14079] interacts with 1 human partners:{095551}

9371 Pathogen[ P03383] interacts with 1 human partners:{095551}

9372 Pathogen[ P03410] interacts with 1 human partners:{095551}

9373 Pathogen[ P14075] interacts with 1 human partners:{095551}

9374 Pathogen[ P0C206] interacts with 1 human partners:{095551}

9375 Pathogen[ P03363] interacts with 1 human partners:{095551}

9376 [Cluster 853]GO:0030544+F molecular\_function [name] Hsp70 protein binding [def] "Interacting selectively and non-covalently with Hsp70 proteins, any of a group of heat shock proteins around 70kDa in size." [ISBN

9377 Pathogen[ Q2Q067] interacts with 6 human partners:{P50502;Q53FT3;P31948;Q9NZJ4;Q99543;Q9UNE7}

9378 Pathogen[ P0C214] interacts with 7 human partners:{P46379;P31948;Q53FT3;Q9NZJ4;Q99543;Q9UNE7;P50502}

9379 Pathogen[ P03346] interacts with 8 human partners:{Q99543;P50502;P25686;P31948;Q9NZJ4;Q9UNE7;P46379;Q53FT3}

9380 Pathogen[ Q85601] interacts with 7 human partners:{Q99543;Q53FT3;P46379;P31948;Q9NZJ4;P50502;Q9UNE7}

9381 Pathogen[ P14079] interacts with 6 human partners:{P31948;Q9NZJ4;Q99543;Q53FT3;P53602;P50502}

9382 Pathogen[ P03383] interacts with 4 human partners:{P50502;P31948;Q99543;Q53FT3}

9383 Pathogen[ P03410] interacts with 8 human partners:{P53602;P50502;P25686;Q53FT3;Q9UNE7;Q9NZJ4;P31948;Q99543}

9384 Pathogen[ P14075] interacts with 4 human partners:{Q53FT3;Q99543;P50502;P31948}

9385 Pathogen[ P0C206] interacts with 7 human partners:{Q9NZJ4;P50502;Q9UNE7;Q99543;P31948;P46379;Q53FT3}

9386 Pathogen[ P03363] interacts with 7 human partners:{Q53FT3;P46379;Q9NZJ4;P50502;Q99543;Q9UNE7;P31948}

9387 [Cluster 854]GO:0030234+F molecular\_function [name] enzyme regulator activity [def] "Modulates the activity of an enzyme." [GOC

9388 Pathogen[ Q2Q067] interacts with 4 human partners:{Q99460;Q13200;Q14232;O43242}

9389 Pathogen[ P0C214] interacts with 5 human partners:{Q9UI12;O43242;Q14232;Q13200;Q99460}

9390 Pathogen[ P03346] interacts with 7 human partners:{Q99460;Q14232;Q96QG7;Q15019;Q15435;Q13200;O43242}

9391 Pathogen[ Q85601] interacts with 4 human partners:{Q13200;Q99460;Q14232;Q96QG7}

9392 Pathogen[ P14079] interacts with 8 human partners:{Q96QG7;O00631;Q99460;Q9UI12;Q15493;Q14558;O43242;Q14232}

9393 Pathogen[ P03383] interacts with 3 human partners:{Q99460;Q13200;Q14232}

9394 Pathogen[ P03410] interacts with 9 human partners:{Q96QG7;Q99460;Q14232;Q13200;Q14558;Q9UI12;O00631;Q15493;O43242}

9395 Pathogen[ P14075] interacts with 2 human partners:{Q13200;Q14232}

9396 Pathogen[ P0C206] interacts with 9 human partners:{Q15435;Q15493;Q15019;Q14232;Q96QG7;O43242;Q13200;Q9UI12;Q99460}

9397 Pathogen[ P03363] interacts with 2 human partners:{Q15435;Q96QG7}

9398 [Cluster 855]GO:0015643+F molecular\_function [name] toxin binding [def] "Interacting selectively and non-covalently with a toxin, a poisonous substance that causes damage to biological systems. Toxins are differentiated from simple chemical poisons and vegetable alkaloids by their high molecular weight and antigenicity (they elicit an antibody response)." [GOC

9399 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9H814}  
9400 Pathogen[ P0C214] interacts with 1 human partners:{Q9H814}  
9401 Pathogen[ P03346] interacts with 1 human partners:{Q9H814}  
9402 Pathogen[ Q85601] interacts with 1 human partners:{Q9H814}  
9403 Pathogen[ P14079] interacts with 1 human partners:{Q9H814}  
9404 Pathogen[ P03383] interacts with 1 human partners:{Q9H814}  
9405 Pathogen[ P03410] interacts with 1 human partners:{Q9H814}  
9406 Pathogen[ P14075] interacts with 1 human partners:{Q9H814}  
9407 Pathogen[ P0C206] interacts with 1 human partners:{Q9H814}  
9408 Pathogen[ P03363] interacts with 1 human partners:{Q9H814}  
9409 [Cluster 856]GO:0042799+F molecular\_function [name] histone methyltransferase activity  
(H4-K20 specific) [def] "Catalysis of the reaction  
9410 Pathogen[ Q2Q067] interacts with 1 human partners:{Q86Y97}  
9411 Pathogen[ P0C214] interacts with 1 human partners:{Q86Y97}  
9412 Pathogen[ P03346] interacts with 1 human partners:{Q86Y97}  
9413 Pathogen[ Q85601] interacts with 1 human partners:{Q86Y97}  
9414 Pathogen[ P14079] interacts with 1 human partners:{Q86Y97}  
9415 Pathogen[ P03383] interacts with 1 human partners:{Q86Y97}  
9416 Pathogen[ P03410] interacts with 1 human partners:{Q86Y97}  
9417 Pathogen[ P14075] interacts with 1 human partners:{Q86Y97}  
9418 Pathogen[ P0C206] interacts with 1 human partners:{Q86Y97}  
9419 Pathogen[ P03363] interacts with 1 human partners:{Q86Y97}  
9420 [Cluster 857]GO:0005355+F molecular\_function [name] glucose transmembrane transporter  
activity [def] "Catalysis of the transfer of the hexose monosaccharide glucose from  
one side of the membrane to the other." [GOC  
9421 Pathogen[ Q2Q067] interacts with 2 human partners:{P11166;P14672}  
9422 Pathogen[ P0C214] interacts with 3 human partners:{P11166;P11168;P14672}  
9423 Pathogen[ P03346] interacts with 2 human partners:{P11166;P14672}  
9424 Pathogen[ Q85601] interacts with 3 human partners:{P11168;P11166;P14672}  
9425 Pathogen[ P14079] interacts with 2 human partners:{P14672;P11166}  
9426 Pathogen[ P03383] interacts with 4 human partners:{P11168;P11169;P14672;P22732}  
9427 Pathogen[ P03410] interacts with 3 human partners:{P22732;P11166;P11168}  
9428 Pathogen[ P14075] interacts with 4 human partners:{P11169;P22732;P11168;P14672}  
9429 Pathogen[ P0C206] interacts with 3 human partners:{P11166;P11168;P14672}  
9430 Pathogen[ P03363] interacts with 2 human partners:{P14672;P11166}  
9431 [Cluster 858]GO:0003727+F molecular\_function [name] single-stranded RNA binding [def]  
"Interacting selectively and non-covalently with single-stranded RNA." [GOC  
9432 Pathogen[ Q2Q067] interacts with 11 human  
partners:{O75525;P10827;Q9HC52;O00257;O95503;O95931;P52597;Q07687;Q9BYX4;P26651;P0923  
4}  
9433 Pathogen[ P0C214] interacts with 11 human  
partners:{O95931;O95503;Q9BYX4;O75525;Q07687;P52597;O00257;P26651;P09234;Q9HC52;Q9NS3  
9}  
9434 Pathogen[ P03346] interacts with 14 human  
partners:{P10827;P09651;Q9NS39;Q9HC52;O95931;Q96J94;O00257;Q9BYX4;O75525;P26651;P5259  
7;P09234;Q9NQ94;O95503}  
9435 Pathogen[ Q85601] interacts with 11 human  
partners:{P09234;O95931;O95503;P26651;P52597;Q9BYX4;P10827;O75525;O00257;Q07687;Q9HC5  
2}  
9436 Pathogen[ P14079] interacts with 14 human  
partners:{P04083;Q9BYX4;O95503;Q9HC52;O95931;Q9NS39;P10827;Q9NQ94;O00257;O75525;Q0768  
7;P52597;P09234;Q96C10}  
9437 Pathogen[ P03383] interacts with 9 human  
partners:{Q07687;O95503;O00257;Q9HC52;O95931;P26651;O75525;P09234;P52597}  
9438 Pathogen[ P03410] interacts with 11 human  
partners:{O95503;O95931;Q9BYX4;P26651;Q07687;P52597;O75525;P09234;Q96C10;O00257;Q9HC5  
2}  
9439 Pathogen[ P14075] interacts with 9 human  
partners:{O95503;P26651;P09234;O95931;Q07687;O00257;O75525;Q9HC52;P52597}  
9440 Pathogen[ P0C206] interacts with 13 human  
partners:{Q07687;Q9HC52;P26651;Q9NS39;P52597;O95931;Q9BYX4;O00257;Q96C10;O75525;P0923  
4;P10827;O95503}  
9441 Pathogen[ P03363] interacts with 16 human  
partners:{Q8IY21;P52597;Q9NS39;Q9HC52;O43347;P09651;P09234;O95931;P26651;Q9BYX4;Q96J9  
4;O95503;Q07687;O00257;O75525;Q9NQ94}  
9442 [Cluster 859]GO:0004175+F molecular\_function [name] endopeptidase activity [def]  
"Catalysis of the hydrolysis of internal, alpha-peptide bonds in a polypeptide chain."  
[http  
9443 Pathogen[ Q2Q067] interacts with 21 human  
partners:{P40306;P28072;A5LHX3;P25787;P28065;O14818;P60900;P55212;P28062;P25788;P2578  
6;P28074;P25789;P20618;P48147;P28070;P28066;Q99436;Q8TAA3;P49721;P49720}  
9444 Pathogen[ P0C214] interacts with 21 human  
partners:{P25789;P28062;A5LHX3;P28065;P55212;O14818;P40306;P48147;P28066;P49720;P2807  
4;P25788;P25786;P28072;Q8TAA3;Q99436;P25787;P60900;P28070;P20618;P49721}  
9445 Pathogen[ P03346] interacts with 21 human  
partners:{P25787;P28070;P25789;P28072;P25788;P28074;P49721;O14818;Q99436;A5LHX3;P2806

2;P20618;P55212;P49720;P28065;P60900;P25786;P28066;Q8TAA3;P48147;P40306}  
9446 Pathogen[ Q85601] interacts with 21 human  
partners:{P28066;P60900;P25787;P25788;P48147;P25789;P20618;P40306;P49720;P28062;P4972  
1;P25786;P28072;P28065;Q99436;P28070;Q8TAA3;P28074;P55212;A5LHX3;O14818}  
9447 Pathogen[ P14079] interacts with 22 human  
partners:{P28065;Q99436;O14773;P40306;Q92542;P28074;P48147;P49720;Q9BXS4;P25787;P2914  
4;A5LHX3;P55212;P20618;Q8TAA3;P28062;P60900;O14818;P49721;P25788;P28066;P28072}  
9448 Pathogen[ P03383] interacts with 20 human  
partners:{P55212;P25789;P60900;P40306;P49721;P20618;P48147;P25786;P28072;P28065;P2806  
6;P28074;P49720;Q8TAA3;P28062;O14818;Q99436;P28070;P25787;P25788}  
9449 Pathogen[ P03410] interacts with 23 human  
partners:{P28070;P25786;P60900;P48147;Q8TAA3;P49721;A5LHX3;Q99436;P40306;P25787;P2806  
2;O14818;P25789;P49720;Q92542;P28072;Q9BXS4;P25788;P55212;P28066;P28065;P20618;P28074  
}  
9450 Pathogen[ P14075] interacts with 19 human  
partners:{P25788;P28066;Q8TAA3;P60900;P55212;P49720;P28070;P49721;P28062;P28074;P2806  
5;P25786;O14818;P28072;P25787;P20618;P40306;Q99436;P25789}  
9451 Pathogen[ P0C206] interacts with 23 human  
partners:{Q99436;P28062;P40306;P28065;P25786;P25788;P29144;P25787;P48147;P49720;P5521  
2;P60900;Q92542;A5LHX3;P25789;P20618;Q8TAA3;P28070;P28066;O14818;P28072;P28074;P49721  
}  
9452 Pathogen[ P03363] interacts with 1 human partners:{P55212}  
9453 [Cluster 860]GO:0000339+F molecular\_function [name] RNA cap binding [def]  
"Interacting selectively and non-covalently with a 7-methylguanosine (m7G) group or  
derivative located at the 5' end of an RNA molecule." [GOC  
9454 Pathogen[ Q2Q067] interacts with 6 human  
partners:{Q09161;O60573;P52298;P06730;P60842;O95149}  
9455 Pathogen[ P0C214] interacts with 6 human  
partners:{Q09161;P60842;O95149;P52298;P06730;O60573}  
9456 Pathogen[ P03346] interacts with 6 human  
partners:{Q09161;P06730;O95149;O60573;P52298;P60842}  
9457 Pathogen[ Q85601] interacts with 6 human  
partners:{O95149;P06730;Q09161;O60573;P60842;P52298}  
9458 Pathogen[ P14079] interacts with 7 human  
partners:{P60842;P06730;P52298;O43432;O95149;O60573;Q09161}  
9459 Pathogen[ P03383] interacts with 5 human  
partners:{O60573;Q09161;P06730;O95149;P52298}  
9460 Pathogen[ P03410] interacts with 7 human  
partners:{P06730;O43432;P52298;P60842;O60573;Q09161;O95149}  
9461 Pathogen[ P14075] interacts with 5 human  
partners:{Q09161;P06730;O60573;O95149;P52298}  
9462 Pathogen[ P0C206] interacts with 6 human  
partners:{O95149;P52298;Q09161;P06730;O60573;P60842}  
9463 Pathogen[ P03363] interacts with 6 human  
partners:{P52298;P60842;O60573;P06730;O95149;Q09161}  
9464 [Cluster 861]GO:0000404+F molecular\_function [name] loop DNA binding [def]  
"Interacting selectively and non-covalently with DNA containing a loop. A loop occurs  
when DNA contains a large insertion or deletion that causes a region of unpaired  
single-stranded DNA to loop out, while the rest of the DNA is in a paired double-stranded  
configuration." [GOC  
9465 Pathogen[ Q2Q067] interacts with 1 human partners:{Q01831}  
9466 Pathogen[ P0C214] interacts with 2 human partners:{P20585;Q01831}  
9467 Pathogen[ P03346] interacts with 2 human partners:{Q01831;P20585}  
9468 Pathogen[ Q85601] interacts with 2 human partners:{Q01831;P20585}  
9469 Pathogen[ P14079] interacts with 2 human partners:{P20585;Q01831}  
9470 Pathogen[ P03383] interacts with 1 human partners:{Q01831}  
9471 Pathogen[ P03410] interacts with 2 human partners:{P20585;Q01831}  
9472 Pathogen[ P14075] interacts with 1 human partners:{Q01831}  
9473 Pathogen[ P0C206] interacts with 2 human partners:{Q01831;P20585}  
9474 Pathogen[ P03363] interacts with 2 human partners:{Q01831;P20585}  
9475 [Cluster 862]GO:0003690+F molecular\_function [name] double-stranded DNA binding [def]  
"Interacting selectively and non-covalently with double-stranded DNA." [GOC  
9476 Pathogen[ Q2Q067] interacts with 53 human  
partners:{Q13562;P01100;Q10587;Q9GZP8;P49959;Q13148;Q16666;P67809;Q7Z2E3;Q99551;Q96B0  
1;Q8N2Z9;A8MT69;Q9Y237;O15350;Q9UFW8;Q02447;Q16534;Q9Y4Z2;P08047;Q06609;Q00577;Q15424  
;Q08050;O43823;O43524;P51826;P84022;O14862;Q9NUW8;O00255;O75444;Q96QR8;P12956;Q15796;  
P39748;P19838;P20823;P78549;Q9Y543;P22415;P16989;Q8WYK2;Q01826;Q15853;P13010;O60870;Q  
9UQR1;P42224;Q16526;P53567;P18146;P28715}  
9477 Pathogen[ P0C214] interacts with 49 human  
partners:{P53567;O75444;Q06609;P16989;P49959;P19838;Q9UFW8;P13010;Q96QR8;O15350;P0110  
0;P17275;P67809;P84022;P42224;Q16666;Q10587;Q8N2Z9;Q9Y237;P28715;O60870;Q00577;Q9Y543  
;P51826;Q7Z2E3;O43823;Q15796;Q96B01;Q15424;P05412;Q01826;Q02447;P18146;Q16534;Q15853;  
Q16526;P39748;P78549;O14862;Q9NUW8;P22415;Q13148;P16220;Q9UQR1;Q99551;P08047;Q14966;P  
12956;O00255}  
9478 Pathogen[ P03346] interacts with 75 human  
partners:{P85037;Q8N2Z9;P05412;Q9Y4Z2;Q96QR8;Q16666;P28715;P12956;Q06609;Q99612;P5801

2;O15522;P16220;Q9UQR1;A8MT69;Q9GZP8;Q00577;Q13148;P17275;Q15796;Q9NUW8;P13010;P51826;Q08050;Q16526;P16989;P20823;O15350;O43316;O00409;O75444;P08047;Q15853;Q9UFW8;P51843;O60870;P84022;Q9Y237;P67809;O00255;Q16534;Q96B01;Q12778;Q99551;P42224;Q01167;P98177;O14979;P49959;Q14966;P78549;Q9Y543;Q7Z2E3;P19838;P53567;Q15424;P18146;O75398;P39748;P29558;Q10587;O75593;Q13562;O43524;O14862;Q13285;Q02447;P01100;P49335;O43823;Q01826;Q8WYK2;P22415;Q99581;Q9UJU5}

9479 Pathogen[ Q85601] interacts with 58 human  
partners: {Q9UQR1;P18146;Q96QR8;Q15853;Q16666;O43316;Q9Y4Z2;O75398;P53567;Q14966;Q13148;Q15424;P51826;Q10587;P49959;P08047;Q9UFW8;Q13562;P01100;P28715;P22415;O60870;O75444;Q00577;Q99551;P16220;A8MT69;Q96B01;O14862;P05412;Q9Y543;O00255;P67809;Q01826;Q9NUW8;Q99612;P42224;Q8N2Z9;Q02447;P84022;Q08050;Q7Z2E3;Q16534;O43823;O15350;P39748;P78549;Q16526;P17275;P19838;P20823;Q06609;P16989;Q9Y237;Q8WYK2;Q15796;P13010;P12956}

9480 Pathogen[ P14079] interacts with 49 human  
partners: {Q9UQR1;Q8WYK2;Q8TAT5;Q10587;Q96B01;P28715;Q16526;Q13148;Q15853;Q99581;Q96QR8;P53567;P67809;Q9Y237;P13010;O43823;Q01826;Q14966;Q9UFW8;Q02447;P78549;O60870;O15350;Q99612;P12956;Q9NUW8;P16989;Q8N2Z9;P17275;Q15424;A8MT69;Q9GZP8;O75444;Q9NSU2;Q00577;O14862;P42224;P52701;P05412;Q16534;Q06609;P51826;Q7Z2E3;O00255;P01100;Q99551;Q16666;P39748;P22415}

9481 Pathogen[ P03383] interacts with 41 human  
partners: {Q9UQR1;Q7Z2E3;P16989;Q8N2Z9;Q06609;O14862;P08047;P13010;P16220;Q01826;Q96B01;P18146;O60870;Q9GZP8;P84022;Q99551;Q02447;Q9UFW8;O15350;A8MT69;O00255;Q16666;Q15853;P01100;Q15796;Q9NUW8;Q00577;P53567;Q13148;Q15424;P17275;O75444;P19838;Q96QR8;P67809;Q16534;P51826;P12956;P22415;P05412;Q16526}

9482 Pathogen[ P03410] interacts with 54 human  
partners: {P84022;P49959;Q9GZP8;P19838;Q16666;Q8WYK2;Q02447;P16989;P53567;O14862;O75444;O60870;Q9Y543;P51826;P39748;Q9NSU2;P28715;Q8TAT5;P78549;P01100;Q00577;Q15424;Q9UQR1;Q13148;Q7Z2E3;P67809;P12956;Q14966;P52701;P17275;Q01826;P22415;Q9NUW8;Q16526;P16220;Q15853;P05412;P13010;Q10587;A8MT69;Q16534;O15350;P08047;Q9UFW8;Q96QR8;P18146;Q96B01;O00255;O43823;Q15796;Q9Y237;Q99551;Q06609;Q8N2Z9}

9483 Pathogen[ P14075] interacts with 43 human  
partners: {A8MT69;Q7Z2E3;Q96QR8;P12956;P16989;Q9UQR1;P05412;P53567;Q9GZP8;O75444;P17275;Q08050;P18146;Q9UFW8;Q16666;Q15796;Q13148;Q01826;Q8N2Z9;O60870;O00255;Q15853;O15350;O14862;Q15424;P67809;Q99551;P01100;Q02447;Q96B01;Q00577;Q16526;P19838;P16220;P13010;P22415;P84022;O43823;Q9NUW8;Q06609;P51826;Q16534;P08047}

9484 Pathogen[ P0C206] interacts with 63 human  
partners: {P84022;P53567;P67809;P28715;P13010;P49959;Q9NSU2;P16220;P17275;O14862;O75444;Q14966;P52701;Q9Y4Z2;Q96QR8;O00255;O60870;P05412;Q8WYK2;Q9NUW8;Q16666;Q9UFW8;Q10587;Q15796;Q99551;P18146;Q15853;P19838;Q16526;Q99581;Q99612;P22415;P16989;Q9Y543;P08047;P01100;Q8TAT5;Q9UQR1;P20823;Q02447;Q16534;P51826;Q15424;Q13148;Q13562;Q08050;Q9Y237;O43823;O15350;Q01826;Q06609;Q8N2Z9;O75398;P39748;Q96B01;P42224;P12956;Q7Z2E3;O43316;A8MT69;Q9GZP8;Q00577;P78549}

9485 Pathogen[ P03363] interacts with 59 human  
partners: {P12956;Q9UFW8;Q9Y4Z2;Q15853;Q8IY21;P18146;Q13148;P53567;Q9GZP8;Q02447;P13010;Q01826;P29558;P16220;O43316;Q99612;Q8N2Z9;Q96QR8;P51826;O00409;Q8WYK2;P17275;Q16666;O43524;Q15424;Q08050;Q7Z2E3;O14979;O75444;O60870;Q14966;Q15796;Q9NUW8;P84022;Q01167;P22415;P19838;O14862;Q16526;Q9Y237;P49335;Q9UQR1;O75398;P05412;Q99581;Q06609;P16989;Q9Y543;P08047;Q00577;Q16534;Q9UJU5;O15522;Q99551;Q10587;Q96B01;A8MT69;P67809;P01100}

9486 [Cluster 863]GO:0004672+F molecular\_function [name] protein kinase activity [def]  
"Catalysis of the phosphorylation of an amino acid residue in a protein, usually according to the reaction

9487 Pathogen[ Q2Q067] interacts with 35 human  
partners: {P52434;P31749;P24385;Q13889;P19388;P52435;Q9UJY1;P32780;P30876;O14757;P61218;Q92759;O95163;P62487;O75582;P51948;O96017;P50750;Q13233;P50613;O15164;P62875;P24928;Q8WTW4;O14920;P45984;O43318;P49336;P24941;P11802;O15111;Q15759;Q13888;P51946;Q00534}

9488 Pathogen[ P0C214] interacts with 39 human  
partners: {P51946;O15111;Q969Z0;P30876;Q14164;Q8WTW4;P50750;P50613;P52435;P11802;O94921;P61218;P24385;O43318;P62487;Q00534;Q13233;P21127;Q00536;P51948;O96017;P49336;P24941;P62875;P32780;P24928;O75582;O15164;Q15759;Q13888;P45984;P52434;P19388;O14757;Q9UJY1;O95163;O14920;Q92759;P31749}

9489 Pathogen[ P03346] interacts with 50 human  
partners: {Q13263;P45984;Q00536;O15111;P52434;P24385;O96017;P21127;P49336;P24941;Q13888;Q9UJY1;O14757;O95163;P61218;Q8WTW4;Q86Z02;Q6P3W7;Q13889;P11802;P62487;P19388;Q496M5;P31749;P52435;Q8TD19;P51946;P50750;P36954;Q13233;O75582;Q92759;P30876;Q15759;Q96PY6;P45985;Q00534;Q96KG9;P24928;O14920;O94921;O43318;P51948;O14965;Q14164;Q8NB16;P32780;O15164;P62875;O00444}

9490 Pathogen[ Q85601] interacts with 47 human  
partners: {P51946;P36954;Q00536;P31749;P24385;O96017;P50750;Q96PY6;O15111;Q13888;P49336;Q969Z0;P61218;Q8WTW4;P51948;O15164;P11802;O14757;Q13263;P62487;O14965;P19388;Q14164;Q92759;P32780;P52435;O14920;O94921;O75582;P50613;Q15759;P45984;P21127;Q96KG9;P24928;Q13233;P30876;Q00534;P52434;O43318;Q496M5;P19447;O95163;P24941;Q9UJY1;P62875;P51955}

9491 Pathogen[ P14079] interacts with 47 human  
partners: {P31751;P62875;O15164;Q14004;Q9NYY8;O43187;P53779;P49336;P51946;P52564;P62487;O75582;P52434;O15514;P30876;Q14164;P61218;O95163;Q13889;Q53R41;Q7L8L6;Q14CZ7;P45984;Q15078;P45983;P50613;Q13888;P19388;P51955;Q16644;Q15759;P45985;P52435;Q8WTW4;Q92759;Q9UJY1;Q969Z0;P21127;P32780;Q13164;P24928;O14965;P36954;P19447;P50750;Q96KG9;P51948}

9492 Pathogen[ P03383] interacts with 41 human



partners:{Q9NYV4;Q8WTW4;O14757;O75582;O95163;P51948;Q13233;Q8TD19;O14920;Q13888;P31749;O15111;Q00536;P52434;P24385;P61218;Q00534;P11802;O43318;P21127;Q969Z0;P62487;P49336;P50613;P51946;P24928;P24941;P50750;Q15759;O94921;Q92759;O14965;P62875;Q96PY6;P52435;P45984;Q9UJY1;P19388;P30876;P32780;O96017}

9493 Pathogen[ P03410] interacts with 47 human  
partners:{P7L8L6;O14920;Q13889;Q53R41;P36954;Q9NYY8;Q00534;P24928;Q8NB16;O15111;Q8WTW4;O75582;P51946;O43187;P31749;P30876;Q9UJY1;Q13233;O15514;P50613;O14965;P50750;O43318;P24385;Q96KG9;P52435;P45985;P24941;O95163;P11802;P19447;P62875;O96017;O14757;P61218;P49336;P51948;Q13888;P45984;P52434;P53779;Q14CZ7;P62487;P19388;P32780;Q969Z0;Q92759}

9494 Pathogen[ P14075] interacts with 42 human  
partners:{P49336;O15111;Q92759;Q969Z0;P24941;P11802;Q15759;P30876;O75582;P50613;Q00534;P19388;P61218;P50750;Q9UJY1;Q8WTW4;P62487;O14920;P31749;O96017;Q13889;O14965;P24928;O43318;P21127;P51946;P32780;O95163;Q96PY6;P24385;P62875;Q13233;O94921;Q9UQ88;Q9NYV4;P52434;O14757;P51948;P52435;P45984;Q8TD19;Q13888}

9495 Pathogen[ P0C206] interacts with 57 human  
partners:{P62875;P49336;Q496M5;O14920;P31749;P36954;Q13263;P50750;O96017;P51955;O75582;P45984;Q00536;P19388;P61218;O43318;Q96PY6;O00444;O15164;Q8TD19;Q96KG9;Q6P3W7;Q13233;P19447;O95163;Q9UJY1;P30291;Q14164;O15514;Q13888;P50613;Q969Z0;O15111;Q92759;P52435;P62487;P45985;P32780;Q13889;P21127;P24928;O14965;P24941;Q15759;Q9NYY8;P11802;O94921;P52434;Q99640;Q99986;P51946;P51948;P24385;Q8WTW4;Q00534;Q7L8L6;P30876}

9496 Pathogen[ P03363] interacts with 31 human  
partners:{O14920;P19388;P21127;P30876;Q13888;P32780;Q92759;O15111;P61218;P51946;Q9UJY1;P24928;O43318;P24941;O96017;Q00534;P31749;Q8NB16;Q96KG9;O95163;P49336;P62487;P24385;Q8WTW4;P50750;P11802;P52435;P52434;Q00536;Q13233;O14757}

9497 [Cluster 864]GO:0046870+F molecular\_function [name] cadmium ion binding [def]  
"Interacting selectively and non-covalently with cadmium (Cd) ions." [GOC]

9498 Pathogen[ Q2Q067] interacts with 6 human  
partners:{P07438;Q93083;P04732;P04733;P29474;P04731}

9499 Pathogen[ P0C214] interacts with 6 human  
partners:{P29474;P04732;P04733;P07438;P04731;Q93083}

9500 Pathogen[ P03346] interacts with 6 human  
partners:{P29474;P04732;P07438;P04733;Q93083;P04731}

9501 Pathogen[ Q85601] interacts with 6 human  
partners:{P04732;Q93083;P07438;P04733;P29474;P04731}

9502 Pathogen[ P14079] interacts with 5 human  
partners:{Q93083;P07438;P04731;P04732;P04733}

9503 Pathogen[ P03383] interacts with 6 human  
partners:{P04733;P29474;Q93083;P04732;P04731;P07438}

9504 Pathogen[ P03410] interacts with 6 human  
partners:{P07438;P04733;P29474;P04731;Q93083;P04732}

9505 Pathogen[ P14075] interacts with 6 human  
partners:{P29474;P04733;P07438;Q93083;P04731;P04732}

9506 Pathogen[ P0C206] interacts with 6 human  
partners:{P07438;P04732;P04733;Q93083;P04731;P29474}

9507 Pathogen[ P03363] interacts with 6 human  
partners:{P29474;P04732;P04731;P07438;P04733;Q93083}

9508 [Cluster 865]GO:0004135+F molecular\_function [name] amylo-alpha-1,6-glucosidase activity [def]  
"Catalysis of the hydrolysis of (1->6)-alpha-D-glucosidic branch linkages in glycogen phosphorylase limit dextrin. Limit dextrin is the highly branched core that remains after exhaustive treatment of glycogen with glycogen phosphorylase. It is formed because these enzymes cannot hydrolyze the (1->6) glycosidic linkages present."  
[EC]

9509 Pathogen[ Q2Q067] interacts with 1 human partners:{P35573}

9510 Pathogen[ P0C214] interacts with 1 human partners:{P35573}

9511 Pathogen[ P03346] interacts with 1 human partners:{P35573}

9512 Pathogen[ Q85601] interacts with 1 human partners:{P35573}

9513 Pathogen[ P14079] interacts with 1 human partners:{P35573}

9514 Pathogen[ P03383] interacts with 1 human partners:{P35573}

9515 Pathogen[ P03410] interacts with 1 human partners:{P35573}

9516 Pathogen[ P14075] interacts with 1 human partners:{P35573}

9517 Pathogen[ P0C206] interacts with 1 human partners:{P35573}

9518 Pathogen[ P03363] interacts with 1 human partners:{P35573}

9519 [Cluster 866]GO:0043995+F molecular\_function [name] histone acetyltransferase activity (H4-K5 specific) [def]  
"Catalysis of the reaction

9520 Pathogen[ Q2Q067] interacts with 3 human partners:{Q96EZ8;P51610;Q7Z3B3}

9521 Pathogen[ P0C214] interacts with 2 human partners:{P51610;Q96EZ8}

9522 Pathogen[ P03346] interacts with 4 human partners:{Q96EZ8;P51610;Q7Z3B3;Q9H7Z6}

9523 Pathogen[ Q85601] interacts with 3 human partners:{Q9H7Z6;P51610;Q96EZ8}

9524 Pathogen[ P14079] interacts with 5 human  
partners:{P51610;Q7Z3B3;Q9P2N6;Q96EZ8;Q9H9L4}

9525 Pathogen[ P03383] interacts with 2 human partners:{P51610;Q96EZ8}

9526 Pathogen[ P03410] interacts with 5 human  
partners:{Q9P2N6;P51610;Q9H9L4;Q96EZ8;Q7Z3B3}

9527 Pathogen[ P14075] interacts with 3 human partners:{P51610;Q7Z3B3;Q96EZ8}

9528 Pathogen[ P0C206] interacts with 6 human  
partners:{Q9H9L4;Q96EZ8;P51610;Q9P2N6;Q7Z3B3;Q9H7Z6}

9529 Pathogen[ P03363] interacts with 3 human partners:{Q7Z3B3;Q96EZ8;P51610}

9530 [Cluster 867]GO:0009008+F molecular\_function [name] DNA-methyltransferase activity  
[def] "Catalysis of the transfer of a methyl group to a DNA molecule." [GOC

9531 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9UBC3;P26358;P16455}

9532 Pathogen[ P0C214] interacts with 2 human partners:{P26358;P16455}

9533 Pathogen[ P03346] interacts with 2 human partners:{Q9UBC3;P26358}

9534 Pathogen[ Q85601] interacts with 3 human partners:{P16455;P26358;Q9UBC3}

9535 Pathogen[ P14079] interacts with 3 human partners:{P16455;Q9UBC3;P26358}

9536 Pathogen[ P03383] interacts with 1 human partners:{P26358}

9537 Pathogen[ P03410] interacts with 3 human partners:{P26358;P16455;Q9UBC3}

9538 Pathogen[ P14075] interacts with 1 human partners:{P26358}

9539 Pathogen[ P0C206] interacts with 3 human partners:{P26358;Q9UBC3;P16455}

9540 Pathogen[ P03363] interacts with 2 human partners:{P26358;Q9UBC3}

9541 [Cluster 868]GO:0046403+F molecular\_function [name] polynucleotide 3'-phosphatase  
activity [def] "Catalysis of the reaction

9542 Pathogen[ Q2Q067] interacts with 1 human partners:{Q7Z2E3}

9543 Pathogen[ P0C214] interacts with 1 human partners:{Q7Z2E3}

9544 Pathogen[ P03346] interacts with 1 human partners:{Q7Z2E3}

9545 Pathogen[ Q85601] interacts with 1 human partners:{Q7Z2E3}

9546 Pathogen[ P14079] interacts with 1 human partners:{Q7Z2E3}

9547 Pathogen[ P03383] interacts with 1 human partners:{Q7Z2E3}

9548 Pathogen[ P03410] interacts with 1 human partners:{Q7Z2E3}

9549 Pathogen[ P14075] interacts with 1 human partners:{Q7Z2E3}

9550 Pathogen[ P0C206] interacts with 1 human partners:{Q7Z2E3}

9551 Pathogen[ P03363] interacts with 1 human partners:{Q7Z2E3}

9552 [Cluster 869]GO:0008327+F molecular\_function [name] methyl-CpG binding [def]  
"Interacting selectively and non-covalently with a methylated cytosine/guanine  
dinucleotide." [GOC

9553 Pathogen[ Q2Q067] interacts with 6 human  
partners:{Q9UBB5;Q96T88;Q9UIS9;O60535;Q9ULJ3;P26358}

9554 Pathogen[ P0C214] interacts with 6 human  
partners:{O60535;Q96T88;Q9UIS9;Q9ULJ3;P26358;Q9UBB5}

9555 Pathogen[ P03346] interacts with 6 human  
partners:{Q9ULJ3;P26358;Q9UIS9;O60535;Q9UBB5;Q96T88}

9556 Pathogen[ Q85601] interacts with 6 human  
partners:{Q9ULJ3;P26358;Q9UIS9;O60535;Q96T88;Q9UBB5}

9557 Pathogen[ P14079] interacts with 4 human partners:{Q9UIS9;Q9UBB5;P26358;Q9ULJ3}

9558 Pathogen[ P03383] interacts with 5 human  
partners:{Q9UBB5;O60535;Q9ULJ3;P26358;Q9UIS9}

9559 Pathogen[ P03410] interacts with 5 human  
partners:{O60535;Q9ULJ3;Q9UBB5;P26358;Q9UIS9}

9560 Pathogen[ P14075] interacts with 5 human  
partners:{Q9UBB5;Q9ULJ3;P26358;Q9UIS9;O60535}

9561 Pathogen[ P0C206] interacts with 6 human  
partners:{Q9UBB5;P26358;Q9ULJ3;Q9UIS9;Q96T88;O60535}

9562 Pathogen[ P03363] interacts with 6 human  
partners:{O60535;Q9ULJ3;P26358;Q96T88;Q9UBB5;Q9UIS9}

9563 [Cluster 870]GO:0001031+F molecular\_function [name] RNA polymerase III type 2 promoter  
DNA binding [def] "Interacting selectively and non-covalently with a region of DNA that  
is a part of a type 2 promoter that controls transcription by RNA polymerase III. Type 2  
promoters consist of an A box and a B box downstream of the transcription start site  
within the sequence within the sequence of the mature RNA. Type 2 promoters are found in  
many tRNA genes as well as in other small RNAs." [GOC

9564 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9H063}

9565 Pathogen[ P0C214] interacts with 1 human partners:{Q9H063}

9566 Pathogen[ P03346] interacts with 1 human partners:{Q9H063}

9567 Pathogen[ Q85601] interacts with 1 human partners:{Q9H063}

9568 Pathogen[ P14079] interacts with 1 human partners:{Q9H063}

9569 Pathogen[ P03383] interacts with 1 human partners:{Q9H063}

9570 Pathogen[ P03410] interacts with 1 human partners:{Q9H063}

9571 Pathogen[ P14075] interacts with 1 human partners:{Q9H063}

9572 Pathogen[ P0C206] interacts with 1 human partners:{Q9H063}

9573 Pathogen[ P03363] interacts with 1 human partners:{Q9H063}

9574 [Cluster 871]GO:0004871+F molecular\_function [name] signal transducer activity [def]  
"Conveys a signal across a cell to trigger a change in cell function or state. A signal  
is a physical entity or change in state that is used to transfer information in order to  
trigger a response." [GOC

9575 Pathogen[ Q2Q067] interacts with 47 human  
partners:{P27540;Q8IUC6;Q9HBZ2;Q8WY1A1;P29692;P40763;Q13352;O14974;P53675;Q15596;Q9UDY  
8;Q15653;Q12933;Q6P1N0;P55345;Q9HB58;P56945;P11308;Q86UL8;O00170;O95163;Q14765;Q9UIV1  
;Q99743;O14641;P25063;Q9Y6K9;Q13114;Q9Y2N7;Q99732;Q92529;P35869;P53041;P62879;P61201;  
P52630;P35813;Q15628;Q92793;Q92734;P42226;Q9UMX1;P22681;Q99814;P42224;O43660;Q8N108}

9576 Pathogen[ P0C214] interacts with 50 human  
partners:{P22681;O00170;P11308;P35813;P35869;Q9Y6K9;P56945;Q15628;Q8IUC6;P42226;Q1476  
5;Q9UDY8;Q99743;Q92793;P61201;P29692;P42224;Q92734;Q92529;P55345;Q15653;Q9UIV1;O14974  
;Q9HBZ2;Q8IXF0;Q9Y2N7;Q99732;P53675;O14641;Q12933;Q13352;Q8N108;P54577;Q9H0E2;P25063;

Q8WYA1;P62879;P53041;Q9NV92;Q13114;Q99814;Q9HB58;P40763;P27540;Q6P1N0;Q15596;P52630;O95163;Q9UMX1;O43660}

9577 Pathogen[ P03346] interacts with 67 human partners: {Q9Y6K9;Q99742;P35813;Q15788;Q92734;Q9UIV1;Q15653;Q9UDY8;Q12802;O00170;O95163;Q13835;P42226;P29692;P27540;Q15269;Q9NRF2;Q13114;Q9NV92;Q9H0E2;O15055;Q96AX9;P62879;O15534;Q6P1N0;O00327;P11308;Q8IXF0;P56945;O14641;Q86UL8;O43660;Q15596;Q9Y2N7;P55345;P46109;P53675;Q99814;P53041;P42224;Q9HBZ2;Q14190;Q15628;P61201;Q8IUC6;Q8N108;Q9HB58;A9YTQ3;P22681;Q8WYA1;P25063;O15516;Q9H8V3;Q92793;P35869;Q14765;P56645;Q92529;P52630;P40763;O14974;Q9UMX1;Q99743;Q13352;Q13136;Q8IUM7;Q99732}

9578 Pathogen[ Q85601] interacts with 54 human partners: {Q92734;P53675;P22681;P62879;Q14765;O15534;Q8IUC6;Q9Y2N7;P56645;Q9UDY8;Q86UL8;P40763;P61201;O15516;Q8WYA1;O00327;Q9UIV1;Q99814;P27540;Q15653;Q13114;Q99743;Q15596;P52630;O00170;Q13352;Q9Y6K9;Q8IXF0;P56945;O14641;Q12933;P42226;Q9HB58;Q92529;P53041;P42224;Q8N108;A9YTQ3;Q9HBZ2;Q15628;O15055;O14974;P35869;O43660;Q92793;P29692;P35813;Q99732;O95163;Q6P1N0;Q9UMX1;Q13136;P11308;P55345}

9579 Pathogen[ P14079] interacts with 66 human partners: {Q99743;P35869;Q99814;Q15596;P52630;Q9NVV7;P53041;Q14236;P61201;Q92734;Q9Y2N7;Q7LFL8;Q8N108;O14641;Q8IUC6;Q92793;O00170;Q13835;P46109;O14974;Q8IXF0;O95163;Q9UMX1;Q6P1N0;Q8TCD1;Q14765;P29692;Q13136;Q7Z434;P11308;P35813;Q12802;P42226;P55345;Q8N114;Q99732;Q9BYI3;Q9Y6K9;P27540;P25063;Q9HB58;Q15788;Q9H8V3;A9YTQ3;B7ZAQ6;P56645;P42224;Q86UL8;Q9UIV1;Q12933;P47874;Q96AW1;P53675;Q9HBZ2;Q9Y3E0;Q9NV92;O15055;Q9H0E2;Q92529;Q8WYA1;Q13352;Q15628;Q8IUM7;O15534;Q13114;Q15653}

9580 Pathogen[ P03383] interacts with 31 human partners: {P62879;P56945;O95163;P27540;Q9Y6K9;Q8IUC6;Q15596;P25063;P61201;P52630;O00170;P42226;P53675;Q13352;Q15653;P35813;Q6P1N0;P11308;O14641;Q12933;Q9Y2N7;Q99732;Q9UIV1;P53041;Q15628;Q8N108;P29692;P35869;Q9UMX1;Q13114;Q92793}

9581 Pathogen[ P03410] interacts with 64 human partners: {Q99743;Q92529;Q8IXF0;P35813;Q99814;B7ZAQ6;A9YTQ3;Q9Y2N7;Q96AW1;Q9BYI3;Q99732;Q14765;Q8N114;Q15653;Q13835;Q9Y3E0;Q9UIV1;Q9NV92;P33241;O15055;Q7Z434;Q9HBZ2;P27540;Q15628;Q13136;Q92793;P25063;O00170;O43660;O95163;P56645;O15534;O14974;Q12933;Q9H0E2;P53041;Q92734;P42226;Q15596;P61201;Q8N108;P52630;P56945;Q8IUC6;Q86UL8;Q9H8V3;Q9Y6K9;Q8TCD1;P53675;P11308;P29692;P40763;Q9UMX1;P62879;P46109;P47874;Q14236;Q6P1N0;Q13352;Q9HB58;Q13114;P55345;Q8WYA1;O14641}

9582 Pathogen[ P14075] interacts with 34 human partners: {P52630;P35869;P35813;P42226;Q92734;P62879;P53675;P61201;Q9Y2N7;P29692;Q15653;Q9BYI3;P27540;Q8N108;O00170;O14641;Q12933;Q99732;P11308;Q13114;P53041;Q15628;Q8IUC6;O95163;Q9NV92;Q92793;Q9Y6K9;Q13352;Q9UIV1;Q6P1N0;Q9UMX1;Q15596;P56945;P25063}

9583 Pathogen[ P0C206] interacts with 64 human partners: {Q96AX9;P53675;Q9Y6K9;Q13114;P62879;Q9Y2N7;Q9UDY8;P35869;Q9UMX1;Q9NV92;Q9UIV1;O15534;P53041;Q15653;P61201;Q12933;Q9HB58;P11308;Q15269;Q92793;O95163;O14974;O00327;Q9H0E2;Q99743;O15516;Q6P1N0;P25063;P56645;P22681;Q13835;Q13352;Q15628;Q9H8V3;P40763;Q8WYA1;Q8IUC6;P42226;Q15596;O15055;P27540;P56945;Q92734;Q14765;O00170;Q99814;Q8IUM7;Q92529;P55345;O43660;Q86UL8;A9YTQ3;P29692;P42224;Q15788;Q99732;Q13136;Q9BYI3;P52630;Q8N108;Q9HBZ2;P35813;B7ZAQ6;Q8IXF0}

9584 Pathogen[ P03363] interacts with 55 human partners: {P22681;P62879;P52630;Q8IUM7;Q14765;Q13835;P27540;Q9UMX1;Q99742;P61201;Q92734;Q12933;P53041;Q9Y6K9;P46109;Q9HBZ2;Q15596;P19883;Q99743;P35869;P42226;P56645;Q92529;Q15653;P11308;P29692;Q13480;Q8WYA1;O00327;Q99732;Q9Y2N7;Q8N108;O95163;Q8IXF0;Q9H0E2;A9YTQ3;Q99814;Q92793;O14974;Q15628;P56945;Q9UIV1;Q15269;Q13114;Q13136;O43660;Q86UL8;O15055;Q6P1N0;O14641;Q13352;O15534;P53675;O00170;Q96AX9}

9585 [Cluster 872]GO:0046790+F molecular\_function [name] virion binding [def] "Interacting selectively and non-covalently with a virion, either by binding to components of the capsid or the viral envelope." [GOC]

9586 Pathogen[ Q2Q067] interacts with 2 human partners: {P62937;P14625}

9587 Pathogen[ P0C214] interacts with 1 human partners: {P14625}

9588 Pathogen[ P03346] interacts with 2 human partners: {P14625;P62937}

9589 Pathogen[ Q85601] interacts with 2 human partners: {P14625;P62937}

9590 Pathogen[ P14079] interacts with 2 human partners: {P62937;P14625}

9591 Pathogen[ P03383] interacts with 2 human partners: {P62937;P14625}

9592 Pathogen[ P03410] interacts with 2 human partners: {P14625;P62937}

9593 Pathogen[ P14075] interacts with 2 human partners: {P62937;P14625}

9594 Pathogen[ P0C206] interacts with 2 human partners: {P62937;P14625}

9595 Pathogen[ P03363] interacts with 1 human partners: {P62937}

9596 [Cluster 873]GO:0004803+F molecular\_function [name] transposase activity [def] "Catalysis of the transposition of transposable elements or transposons. Transposases are involved in site-specific DNA recombination required for transposition in bacteria and other organisms." [ISBN]

9597 Pathogen[ Q2Q067] interacts with 1 human partners: {O96006}

9598 Pathogen[ P0C214] interacts with 1 human partners: {O96006}

9599 Pathogen[ P03346] interacts with 2 human partners: {O96006;Q9H8Y1}

9600 Pathogen[ Q85601] interacts with 1 human partners: {O96006}

9601 Pathogen[ P14079] interacts with 2 human partners: {Q9H8Y1;O96006}

9602 Pathogen[ P03383] interacts with 1 human partners: {O96006}

9603 Pathogen[ P03410] interacts with 2 human partners: {Q9H8Y1;O96006}

9604 Pathogen[ P14075] interacts with 2 human partners: {O96006;Q9H8Y1}

9605 Pathogen[ P0C206] interacts with 2 human partners: {Q9H8Y1;O96006}

9606 Pathogen[ P03363] interacts with 2 human partners:{O96006;Q9H8Y1}

9607 [Cluster 874]GO:0016831+F molecular\_function [name] carboxy-lyase activity [def] "Catalysis of the nonhydrolytic addition or removal of a carboxyl group to or from a compound." [http

9608 Pathogen[ Q2Q067] interacts with 4 human partners:{P21953;Q9UG56;P06132;P11172}

9609 Pathogen[ P0C214] interacts with 7 human partners:{P06132;P35558;P12694;P11172;P21953;Q9UG56;Q16822}

9610 Pathogen[ P03346] interacts with 3 human partners:{P06132;Q9UG56;P11172}

9611 Pathogen[ Q85601] interacts with 4 human partners:{Q9UG56;P11172;P21953;P06132}

9612 Pathogen[ P14079] interacts with 9 human partners:{P17707;P21953;P22234;P11172;Q8TDX5;O95822;Q9UG56;P06132;Q96CD2}

9613 Pathogen[ P03383] interacts with 3 human partners:{Q16822;P06132;P11172}

9614 Pathogen[ P03410] interacts with 11 human partners:{Q16822;P12694;P11172;P21953;P06132;P22234;Q8TDX5;Q96CD2;P17707;Q9UG56;O95822}

9615 Pathogen[ P14075] interacts with 4 human partners:{P06132;P11172;Q16822;Q9UG56}

9616 Pathogen[ P0C206] interacts with 5 human partners:{Q16822;P21953;P11172;Q9UG56;P06132}

9617 Pathogen[ P03363] interacts with 2 human partners:{P06132;P11172}

9618 [Cluster 875]GO:0004869+F molecular\_function [name] cysteine-type endopeptidase inhibitor activity [def] "Stops, prevents or reduces the activity of a cysteine-type endopeptidase, any enzyme that hydrolyzes peptide bonds in polypeptides by a mechanism in which the sulfhydryl group of a cysteine residue at the active center acts as a nucleophile." [GOC

9619 Pathogen[ Q2Q067] interacts with 4 human partners:{O95997;Q9NR09;P20810;O15392}

9620 Pathogen[ P0C214] interacts with 6 human partners:{P20810;P98170;O15392;Q9NR09;O95997;Q96CA5}

9621 Pathogen[ P03346] interacts with 8 human partners:{O15392;P98170;O95997;P04080;Q9NR09;Q9H112;Q96CA5;P20810}

9622 Pathogen[ Q85601] interacts with 5 human partners:{P98170;O15392;Q9NR09;Q96CA5;O95997}

9623 Pathogen[ P14079] interacts with 5 human partners:{P04080;O15392;P20810;Q9NR09;O95997}

9624 Pathogen[ P03383] interacts with 3 human partners:{P20810;Q9NR09;O95997}

9625 Pathogen[ P03410] interacts with 4 human partners:{O15392;O95997;Q9NR09;P20810}

9626 Pathogen[ P14075] interacts with 3 human partners:{P20810;O95997;Q9NR09}

9627 Pathogen[ P0C206] interacts with 6 human partners:{O95997;P98170;Q9NR09;P20810;O15392;Q96CA5}

9628 Pathogen[ P03363] interacts with 6 human partners:{P20810;Q9H112;Q9NR09;P98170;Q96CA5;O95997}

9629 [Cluster 876]GO:0051575+F molecular\_function [name] 5'-deoxyribose-5-phosphate lyase activity [def] "Catalysis of the beta-elimination of the 5' deoxyribose-5-phosphate at an abasic site in DNA where a DNA-(apurinic or apyrimidinic site) lyase has already cleaved the C-O-P bond 3' to the apurinic or apyrimidinic site." [PMID

9630 Pathogen[ Q2Q067] interacts with 3 human partners:{P12956;P17096;P13010}

9631 Pathogen[ P0C214] interacts with 3 human partners:{P13010;P17096;P12956}

9632 Pathogen[ P03346] interacts with 3 human partners:{P12956;P13010;P17096}

9633 Pathogen[ Q85601] interacts with 3 human partners:{P17096;P13010;P12956}

9634 Pathogen[ P14079] interacts with 3 human partners:{P13010;P17096;P12956}

9635 Pathogen[ P03383] interacts with 3 human partners:{P13010;P17096;P12956}

9636 Pathogen[ P03410] interacts with 3 human partners:{P17096;P12956;P13010}

9637 Pathogen[ P14075] interacts with 3 human partners:{P12956;P17096;P13010}

9638 Pathogen[ P0C206] interacts with 3 human partners:{P13010;P17096;P12956}

9639 Pathogen[ P03363] interacts with 3 human partners:{P12956;P13010;P17096}

9640 [Cluster 877]GO:0005524+F molecular\_function [name] ATP binding [def] "Interacting selectively and non-covalently with ATP, adenosine 5'-triphosphate, a universally important coenzyme and enzyme regulator." [ISBN

9641 Pathogen[ Q2Q067] interacts with 173 human partners:{O95363;Q92900;Q12798;Q12905;P22392;O75351;P23381;P31749;Q9Y6K5;P49591;Q8IY18;Q0VDF9;Q9UKX2;Q9Y285;P62837;P38646;Q99741;O96019;Q9H1H9;P49427;P51531;Q14204;Q7Z7A3;O00762;Q9Y2X8;Q01196;P19367;Q15046;P49770;P11387;P61604;Q9HAN9;Q9UHC1;Q9NSD9;P08238;P38919;P60604;Q95347;O76031;P07900;Q8TE76;Q96S55;O14757;O00148;Q6ZRS2;P08107;P63279;Q5T160;Q13838;Q13415;P38935;P12270;P51965;Q14240;O43542;Q06609;Q96I59;O43776;P11388;P32189;P61077;P26196;P11142;A6NDB9;O95163;O43502;P63146;Q9UHI6;P59047;P17987;Q9BYK8;O7582;O96017;Q14978;P41252;Q8N3C0;Q9NPD8;P51668;P54278;P50991;P50750;Q96Q89;Q13233;Q08211;P51532;P42025;O14656;Q9H4L7;P50613;P07814;Q12873;Q9UN37;P61088;Q9NTI5;Q5TCQ9;P46100;Q03468;Q9P0J0;P13984;Q9NZJ4;Q9ULW0;P12956;Q02241;Q9P2R7;O00139;P12883;Q3L8U1;Q53G26;Q92499;Q15257;Q96RU7;O94805;O75943;O43913;P54136;Q9HCE1;Q14839;O43615;Q86UW6;Q9UNY4;O14920;Q13761;Q9C000;P41208;O14646;Q9BYX4;P45984;Q9ULG1;Q6PI48;Q9UHN1;P49459;P25205;P35251;Q9HCK8;P46013;O43318;P49336;Q9HA77;Q86WJ1;P62256;Q9BW92;P68036;P41250;P35579;Q14683;P21675;Q86WI3;P24941;P13010;Q9HBD4;Q8NE71;P28370;P49589;Q9Y2W1;P11802;P78371;Q9NVV4;P31689;O15111;Q92841;Q9P2J5;Q9NTK5;Q9H9F9;Q8IYD8;P60842;Q96EY1;Q00839;Q15759;P14868;P14625;Q00534;P33076;P51003}

9642 Pathogen[ P0C214] interacts with 284 human partners:{P41250;Q96B02;Q14410;Q8IY18;Q9GZZ9;Q96T66;Q14527;A8MQ11;Q9H832;Q58FG0;Q13761;P60709;P49589;A7E2Y1;Q05932;Q16763;Q9NSE4;P26196;P14625;Q06609;Q7L3T8;O15111;P68133}

;Q9NPP4;O95363;Q14409;Q99832;Q9UGM6;Q58FF7;Q9UKX2;P49368;P23919;Q96S55;Q9HAN9;O00762;Q8TE04;O00148;Q16740;O75351;P60842;P49770;P78371;Q02241;Q96I59;P13010;O43913;Q9H9F9;Q9NP81;P21675;O00159;P12081;P48643;Q9Y2K3;Q14164;P53396;P23381;P51003;Q5TCQ9;Q12873;P50750;Q92900;P50613;Q92841;P49427;P33076;P49590;P07814;Q9UM54;Q9H0S4;Q9Y285;P41252;Q86UW6;P11055;O95299;Q86WI3;Q5JTTZ9;P11802;Q9Y6K5;Q9HBD4;P34932;O94921;Q9BTE6;P61604;Q6ZR52;P29728;P12277;Q58FG1;Q3L8U1;Q7L2E3;P63279;P49459;O14656;Q9ULG1;Q9BYX4;Q12905;P35251;Q969T4;Q15257;P20585;O00139;Q5JPH6;Q9H4L7;O43776;Q9Y3D8;P38935;O95396;P32189;Q15031;O43318;P14868;O95347;Q8WW22;P49591;Q9HCE1;P51965;Q13057;P25205;P61077;Q9BYK8;Q9P2R7;O76031;O60825;Q8N3C0;P50747;Q9H3H1;Q9NZJ4;P62253;Q14566;Q92698;Q00534;Q8NE71;Q13233;P35580;O43681;Q96Q89;Q12798;P21127;Q00536;P56192;P14618;P61086;P28370;O96017;Q14978;O43542;P49336;Q9H0A0;P26639;Q9Y2X8;Q9P0J0;P13535;P46100;P38919;Q9UHC1;Q9UNY4;O43615;Q9BZQ4;Q9NVP1;Q9ULW0;Q14240;P54577;O43502;A2RTX5;P24941;Q9HCK8;P38646;P19367;Q9Y6X9;P10809;O60264;Q9UHI6;Q8TE76;P12882;Q9NRF8;P11388;Q53G26;Q9HA77;P62736;Q58FF3;Q58FF6;P49588;Q96GW9;P23921;P13984;O75943;Q7Z7A3;P41208;P11387;P12883;O75582;Q9BZ23;Q92499;O00442;Q96RU7;Q9H2U1;Q14683;P42025;Q9NUU7;Q15759;Q96I99;Q58FF8;Q969M7;Q9UMR2;Q7Z406;P45984;Q5T160;P47897;P17987;Q9BW92;P46013;Q6PI48;Q08211;P13533;P12270;Q9NWZ5;O60884;Q5D0E6;P16118;Q92614;O14727;Q712K3;Q00839;P54278;P35998;Q9Y623;P62256;P22392;Q9UN37;P50991;O14646;P40692;P51668;O14757;Q9NSD9;P26640;Q15046;P17812;Q14568;P51531;O94805;P08107;Q5EBM0;Q9Y2W1;P63261;Q9NVV4;Q5ST30;Q9Y5Y2;Q9NTI5;Q13838;Q8NFF5;Q9NPD8;P61081;O95163;Q9NTK5;Q96LR5;O14920;P59047;Q8IYD8;P11586;P00558;Q86WJ1;Q03468;O96019;P35749;Q96EY1;P63146;P12956;P31749;Q14839;P61088;P51553;Q9Y2Z4;P51532;Q99741;Q0VDF9;P55072;P17980;Q13415;P11142;P60604;Q9UHN1;Q9C000;Q9P2J5}

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Pathogen[ P03346] interacts with 238 human partners: {P08107;Q9Y6X9;P59047;P23381;Q15058;P46063;Q9NRZ9;P45984;Q00536;P38935;Q9HBD4;O15111;P12270;P12956;Q06609;P07900;P68036;O96017;Q12905;P46100;Q96JP2;Q12840;Q9NX02;P14625;Q6ZW61;P11388;O43502;P21127;P49427;P35579;P62736;O14656;P51532;Q14149;Q9UMR2;Q92614;Q92841;Q5TCQ9;O00139;P07814;Q9H9F9;P49336;Q14527;P35250;P61604;Q9ULG1;O43615;P24941;Q8TE76;Q8TD26;P78371;Q15257;P13010;P19367;P60709;O14757;O95347;P38919;Q7L2E3;P33076;O95163;P11142;Q9H1H9;Q9UHN1;Q9NVP1;Q00839;P63279;O43776;Q14204;Q8IZE3;O14646;P49459;Q9NZJ4;Q08211;Q9Y2X8;Q92698;Q9HAN9;Q86Z02;P60842;P55072;Q6P3W7;P51668;Q9BUQ8;P41252;P61077;A5A3E0;Q8N3C0;P16452;P11802;O76031;A6NDB9;P61088;Q9H2U1;O75943;P41250;Q7Z333;Q9UHC1;Q14566;P25205;P41208;P38646;Q92499;Q14978;O96019;Q9Y285;Q9ULW0;Q9NTK5;Q496M5;P13984;Q9NPP4;Q96S55;Q86UT6;P60604;P51003;Q15646;O75643;P31749;Q03468;P51965;O15315;Q9P2J5;P63146;Q8N841;Q14683;Q86WI3;O60264;P50991;O00762;P20585;Q9HCK8;Q13761;Q8TD19;Q9UHI6;Q9NVV4;Q7Z7A3;P50750;P49368;Q8IWT3;O94805;O43542;P33992;Q9NTI5;Q96Q89;P62837;Q14240;P54136;Q13415;P49770;Q9Y3D8;O75771;P42025;P31689;Q13838;Q9UNY4;Q13233;Q5326;Q86UW6;O75582;P22392;P14868;P35249;Q9NPD8;Q0VDF9;P49589;Q6ZRS2;Q9Y5Y2;P42285;Q9BYX4;Q02241;Q96RU7;Q14562;P33991;Q9NUU7;Q9ULW0;P21675;Q15759;Q9H0S4;Q96PY6;P45985;P54278;Q8NE71;P26196;P32189;O75351;P34932;Q8IYD8;Q9UKX2;Q12798;P28370;Q6PI48;Q01196;Q12873;Q00534;P35251;Q96KG9;P46013;Q9P2D1;O14920;P62256;Q9BYK8;Q13401;O94921;O43318;O00148;Q13283;O43933;P51531;Q9P0J0;Q3L8U1;Q86WJ1;O43543;Q8IY18;Q9HCE1;Q92900;Q9Y2W1;P40937;Q99741;O43929;O14727;P08238;P54277;O14965;Q14164;Q8NB16;Q86XP3;Q96EY1;Q9Y6K5;A0AVT1;O43913;Q9NWZ5;Q14839;Q9UN37;P11387;Q9H4L7;Q9UBP0;Q9C000;O00444;P17987}

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Pathogen[ Q85601] interacts with 244 human partners: {Q9HCE1;P61163;Q14978;O43913;Q00536;Q9NTK5;P54136;Q9NSD9;P08107;P62253;Q92614;Q9P0J0;O43502;O15315;P33076;P68133;Q16763;P31749;P31689;P26639;P63146;Q9H0S4;Q02241;P14868;O96017;Q96JP2;O95347;Q8IYD8;P50750;Q3L8U1;P13533;P49589;Q8IY18;Q9P2D1;Q58FF8;Q14240;Q9UBP0;P49427;P35579;Q96PY6;P38935;Q12798;Q9P2J5;O15111;Q9Y2X8;Q53G26;P07814;Q9H9F9;A8MQ11;P49336;P61604;Q13415;O60825;O00148;P23381;Q9UMR2;Q14204;Q7L2E3;Q9H1H9;Q9Y6X9;Q8WW22;Q969T4;O96019;O60884;Q86WI3;Q15046;O43776;O14646;Q96B02;P17987;Q9ULW0;Q9NPD8;Q92499;Q9BW92;Q92698;P12270;Q86VD1;P32189;Q9Y285;Q14149;Q9NTI5;Q08211;P51668;Q9HAN9;Q96LR5;P68036;P49770;P61077;Q9P2R7;P63279;P16118;O43542;Q9HA77;P11802;Q12840;P38919;P60709;P51531;O14757;O75943;P11387;P41250;Q14566;O14965;Q5T160;O43681;Q9UKX2;Q9Y2K3;Q96Q89;Q14164;Q03468;P51532;Q5D0E6;O00159;O75351;Q9Y6K5;P50991;P13984;P25205;P12882;P14618;P51965;Q13838;Q7Z406;Q9NVP1;Q14683;P63261;O14920;Q12873;A2RTX5;P20585;P11142;Q9UHI6;Q15058;P08238;P11055;Q7Z7A3;Q9H4L7;Q9NUU7;P61086;Q9BYX4;P35251;Q6ZRS2;P11388;P35749;O14656;O94921;Q9BYK8;O00762;O75582;Q5TCQ9;Q96I59;P22392;P60842;Q9ULG1;P12883;P50613;P49459;O43615;P07900;Q96RU7;Q9HBD4;Q8NE71;P26196;O95363;Q9HCK8;P62837;Q15759;P45984;O43933;Q96S55;P54278;P14625;Q00839;Q9H832;Q12905;P38646;P21675;P34932;Q9UHC1;P47897;P28370;Q969M7;Q9Y5Y2;Q6PI48;P21127;O76031;Q86WJ1;P35580;Q96KG9;P46013;Q9NZJ4;Q58FF3;Q8TD26;P62256;Q13233;P33992;Q9UM54;Q00534;P78371;Q86UW6;Q9NVV4;P41252;O43318;P13535;P40692;P48643;P51003;O60264;Q496M5;Q8TE76;P61088;P19447;Q14527;O94805;Q92900;Q15257;Q9Y2W1;O95163;P60604;Q14568;Q99741;Q0VDF9;Q06609;Q9UHN1;Q9UN37;P24941;Q9Y623;P62736;P42025;Q9UNY4;O00139;P46100;Q96EY1;P51955;Q14839;P13010;P12956;Q8N3C0;Q13761;P19367;P41208;P59047;Q9H2U1}

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Pathogen[ P14079] interacts with 312 human partners: {P31751;Q8TE04;P16452;O43615;O43196;P11388;P35579;Q9Y285;P48643;P62333;Q14004;O15315;O00442;P23381;P20585;P26639;P33076;Q6IEE8;Q9H0S4;O14841;P51965;P60842;Q9BRP7;Q9ULG1;Q96GW9;O95544;Q9P2J5;P63261;P11142;Q9BYK8;P63279;Q8NFF5;P0C7F3;Q9BYX4;O75897;Q5EBM0;Q7L3T8;Q9BTE6;Q14566;Q9BW92;O43716;Q9H0R6;P29728;O43187;P53779;Q8IYM2;Q9NZJ4;P25705;P54136;Q6ZMV9;P49336;Q13415;P68036;Q9H0A0;P22234;P52564;Q92614;P17812;Q9UJ70;Q15031;Q8IYD8;Q5T160;P49842;P40937;P13010;O75582;Q12840;Q499Z3;Q14410;Q9UNY4;P40692;Q9HCE1;Q8TE76;P28370;Q7L2E3;Q5ST30;Q9H4L7;Q96DU7;Q9NPD8;Q02241;P50991;Q14204;Q9C000;Q9NPD81;O43913;Q68D20;P60604;P47897;O95363;P51532;Q14164;P49591;P54278;O14646;A2RTX5;O95163;Q9NWZ5;Q92698;P32189;Q9UHC1;P51531;P14868;Q13838;P78371;O95922;P51606;Q7Z4S6;Q6ZRS2;Q9ULW0;P50990;Q13472;Q9UKX2;Q32NB8;Q9UM54;Q9P2R7;Q9UHI6;Q14240;P35998;Q14409;P61077;

Q08211;Q16740;Q9C093;Q00839;P61604;Q9HA77;Q12873;A6NDB9;Q9NTI5;P45984;A8MQ11;Q9NRF8;P46100;O43776;Q5JPH6;Q14149;P62256;Q12905;O75648;Q0VDF9;P45983;Q99741;P68032;O15066;P50613;Q9P2D1;Q8TD26;Q9NQX7;P12956;O94805;Q99661;P35250;P23919;O14656;P49589;P51668;Q14692;Q9Y287;P51955;O75943;P12270;Q9BZ23;Q15046;P22392;Q16644;O43681;O95347;Q8IVS8;Q9BZQ4;Q96Q89;Q86XW9;P26196;Q8IYQ7;Q96S55;P41252;Q15759;O60282;P08238;Q9Y6K5;P61158;Q969M7;P17987;P08107;Q12798;A5A3E0;P45985;Q13057;O00139;Q8NE71;Q15058;P63267;Q86UW6;P35251;P49459;P41250;Q86WJ1;Q96I59;Q9NVV4;Q9H1H9;O00148;O95299;P26640;P07900;Q9Y5Y2;P60709;Q8N841;P56192;Q9HCK8;Q9P0J0;Q9NSD9;Q86VD1;Q9NWX6;O60264;O95744;P21127;P12883;O43502;P54277;O43929;Q9NTK5;Q9Y2Z4;P61163;Q9HAN9;Q9UN37;P33992;Q96RU7;O43543;Q6ZVT0;Q6IA69;P14625;Q92628;Q86Y91;P49915;P41208;Q5T7B8;P53602;Q14839;Q9Y2X8;Q86UT6;P49427;P13984;P38646;P62191;Q9UGM6;P31689;Q92900;Q8IY18;Q92499;Q96FC9;Q9NSE4;P62837;Q9UQE7;O15067;Q13164;P42025;Q03468;P38935;Q9NS86;O00762;Q5D0E6;Q96Q11;O75351;Q13761;Q6ZW61;P43686;Q86WI3;P51003;O76031;Q9H3H1;P52701;P49588;O95235;Q9Y6X9;P49368;Q9UHN1;Q6PI48;Q7Z7A3;Q8WW22;Q06609;Q14683;Q9NVP1;Q6S8J3;O14965;Q9Y239;Q969P6;P0CG38;O60884;P63146;P68133;P25205;P59047;Q05932;Q96C10;P17980;Q9Y2W1;Q96EY1;P07814;Q9H9F9;P0CG39;P19447;O43542;Q4G0Z9;P49917;Q9H999;P21675;Q14978;Q3L8U1;P50750;Q96KG9;Q9NPP4;Q9BYX7;P46013}

9646 Pathogen[ P03383] interacts with 170 human partners: {P08107;Q14683;Q13761;Q9NVV4;Q9NVV4;Q9UHN1;Q9Y285;Q14978;O14757;Q06609;Q14839;O75582;Q9HBD4;O95163;P33076;O96019;P51003;Q9P2J5;P13010;P14868;Q9H0S4;A6NDB9;Q02241;P54278;Q13233;O94805;P51965;Q5D0E6;Q8TD19;P38646;Q9NWX5;P12270;O14920;P19367;Q15257;Q13838;Q8NE71;Q7Z7A3;Q9NTK5;P49427;P31749;P42025;Q5JPH6;O15111;Q9Y2X8;P49589;Q5T160;Q9UHC1;Q15031;P25205;P41208;P46013;P61604;O43615;P28370;Q9P2R7;P22392;Q9NP81;Q92841;Q9UHI6;O00762;O95347;P38919;Q12798;Q00536;O14646;P11387;P26196;P07900;Q96S55;Q00534;P31689;P11802;O43318;Q9H9F9;P61077;P21127;Q9H1H9;O43913;Q8TE76;P61088;Q9BTE6;P46100;P49336;Q9HAN9;Q12873;P50613;P13984;P23381;P60604;Q03468;Q96I59;P24941;Q9UKX2;Q15046;A2RTX5;P50750;Q9Y2Z4;O95363;P51531;P14625;Q96Q89;P62837;P07814;Q15759;P49770;P11142;Q96GW9;O94921;Q12905;P12883;Q9Y6K5;Q9BZ23;Q5TCQ9;Q9HA77;Q9H832;P35580;P78371;O14965;Q96RU7;Q3L8U1;Q86WI3;Q9HCK8;Q96PY6;P21675;P68036;P32189;O43776;P49459;P45984;P51532;Q6PI48;O76031;P35579;Q9NPD8;O43542;P38935;P62256;P63146;Q9ULW0;P41250;Q92499;Q9P0J0;Q9NTI5;P41252;P54136;Q9HCE1;Q5EBM0;Q9Y2W1;Q9NSD9;P49591;Q9UN37;Q92900;Q7L3T8;P08238;Q00839;Q9H0A0;Q9BYK8;Q9UNY4;Q96EY1;P63279;Q86UW6;P51668;Q53G26;Q99741;P12956;O00148;O96017;P35251;Q9BW92}

9647 Pathogen[ P03410] interacts with 321 human partners: {Q9BRP7;Q9Y6G9;O75648;Q13838;Q8IVS8;Q9Y2W1;Q86Y91;Q14204;Q9P2R7;Q9NS86;Q96Q11;P53602;P40692;Q96Q89;Q9Y285;P17987;Q00839;P25205;Q9HA77;O43929;Q12873;P49368;P51606;Q9UNY4;Q99832;Q96DU7;Q15058;O14920;Q9H4L7;P20585;Q9NSE4;P56192;P62736;Q9UKX2;Q8NE71;Q9Y239;Q9BTE6;Q8N3C0;P48643;Q53G26;Q8IZE3;O00442;P49915;O75943;Q6ZVT0;Q8NFF5;O00139;Q8TE04;P38646;Q00534;Q92698;Q8IYD8;P29728;O75879;Q92900;P08238;Q9NRF8;P49589;Q5T30;Q9NVP1;P49427;P25705;O15315;Q13057;P17812;O75351;Q9H1H9;O14656;Q8NB16;O96019;P16118;O95299;P46013;Q9BW92;Q6ZW61;P21675;Q9UQE7;Q14149;O15111;Q9H0A0;Q92614;P35998;A5A3E0;P51965;Q14692;P54277;Q9ULV0;O43542;O60282;Q9BYK8;P49588;P54136;Q9NTK5;O14646;Q7Z4S6;O75582;Q14410;Q5TCQ9;P61604;Q15257;Q9Y6X9;O43187;P14625;Q14978;P23381;Q6IEE8;Q9BYX4;Q9ULG1;O00159;O00148;P49459;Q9NWX5;Q7L3T8;O43776;P11142;Q4G0Z9;P31749;P16452;P35579;P59047;Q12798;Q9Y287;P07900;Q96S55;Q7Z7A3;Q9NPP4;Q9C000;P47897;Q9Y5Y2;Q9H3H1;P68036;P14868;Q9H0S4;P61088;Q13233;Q03468;Q12840;Q9NVV4;P50613;P61163;Q5D0E6;P49770;P33992;P23919;Q9NSD9;O14841;Q86UW6;P22234;O95347;P51003;O14965;Q9P2J5;P49591;P50750;Q0VDF9;Q86WI3;Q9UM54;O60333;O43318;Q9UMR2;P12956;O76031;Q92628;Q6ZRS2;Q86UT6;Q13472;P38935;P35251;P52701;Q6ZMV9;Q9NZZ4;P12270;P12882;Q96KG9;O94805;Q499Z3;P45985;Q9NUU7;P26639;O43502;Q9P2D1;P50990;P08107;Q9H9F9;P24941;Q96I59;P62256;Q92499;Q9UN37;O95163;P11802;P0CG39;Q58FF3;Q12905;Q9NQX7;Q9HCE1;Q9NTI5;O43615;P19447;P63146;P33176;P11387;Q14683;P41250;P12883;O15067;Q7L2E3;Q9HCK8;Q9Y2X8;O96017;Q5EBM0;O95744;Q9H0R6;O14757;Q15046;P51668;Q68D20;P68133;P46100;P60842;P51532;P38919;Q9BZ23;P49336;O43196;Q14409;Q86WJ1;Q5JPH6;Q9HAN9;P11388;O60884;Q96RU7;P51531;Q9Y6K5;P42025;Q9C093;P35580;P45984;Q13761;Q9NPD8;Q3L8U1;Q96C10;Q9ULW0;Q9UGM6;P41252;P53779;O00762;Q9Y2Z4;Q8IY18;P13010;O43543;P63279;P13984;P26640;P78371;Q86VD1;P31689;Q96GW9;O95922;Q969M7;P63261;P33176;P11387;P13533;Q96FC9;P54278;Q86XW9;P07814;Q8TE76;P60604;P35250;P32189;Q9P0J0;Q8TD26;Q9NP81;Q8WW22;Q96JP2;O60264;A2RTX5;Q8N841;Q16740;O43913;P40937;Q9HBD4;Q14566;P13535;P23921;Q05932;P41208;Q14839;Q9UHN1;Q9UHI6;Q08211;O43681;Q6IA69;P0CG38;Q9NWX6;Q9BZQ4;A6NDB9;O95363;P33076;Q6PI48;Q5T160;Q96EY1;Q6S8J3;Q8IYM2;O43237;P17980;Q5T7B8;P60709;Q9UHC1;P28370;P50991;P61077;P62837;Q06609;Q14240;Q02241;Q13415;Q99741;Q6PJ11;Q9H2U1}

9648 Pathogen[ P14075] interacts with 180 human partners: {Q9Y2Z4;Q3L8U1;P11387;P49336;P60604;P54136;Q15257;P51003;O14646;P31689;P13984;Q92900;O15111;P12956;P11142;P21675;Q9H1H9;P24941;Q9HBD4;Q14683;P41250;Q5D0E6;Q6ZW61;Q02241;P23381;P68036;Q9H3H1;Q86WI3;P11802;Q9NWX5;Q15759;O75648;P62837;Q9UKX2;P49427;P51532;Q9H0S4;Q9UNY4;Q9NSD9;O75582;P61088;P26196;Q8IVS8;P32189;Q9NVV4;P49459;P50613;P61604;Q12905;P38935;Q86UW6;Q14839;P51965;P41252;Q00534;Q9HCE1;Q8TE76;P33076;P50750;P19367;O95363;P78371;Q53G26;Q12798;Q5TCQ9;Q9Y2X8;P63279;P12270;P08238;Q13057;P38646;P61077;Q96GW9;Q9H0A0;Q9HA77;Q9NP81;O95347;O76031;Q9NPD8;Q03468;Q9Y285;P07900;Q92499;Q9ULW0;Q9NTK5;Q00839;O14920;P16118;O96019;P46100;Q9UHI6;P31749;Q9BTE6;O00762;O00139;Q7L3T8;P56192;O96017;Q9UHC1;P25205;O14965;A2RTX5;Q9HCK8;Q8TE04;Q9BW92;O43776;Q7Z7A3;O43318;P51531;P49842;P35251;Q9Y6K5;Q8NE71;P49770;P21127;P35579;P14868;Q5T160;Q9P2J5;P28370;O43542;Q9BZ23;O43913;P41208;O94805;Q96RU7;O95163;Q9UHN1;P26639;P08107;Q92841;Q96PY6;Q6PI48;Q9H9F9;Q99741;Q96I59;P54278;P62256;P63146;P13010;A6NDB9;Q9HAN9;Q96S55;P49589;Q5JPH6;Q9Y287;Q13233;P38919;Q15046;O94921;Q9UQ88;P14625;Q5EBM0;Q9Y2W1;Q13838;Q9NTI5;P51668;Q9NYV4;Q12873;Q9NSE4;P46013;Q96Q89;Q15031;Q9P0J0;P49591;P42025;Q9BYK8;O00148;O14757;P22392;Q14978;Q96EY1;Q06609;P07814;O43615;Q9P2R7;Q9UN37;Q13761;P45984;Q8TD19}

- 9649 Pathogen[ P0C206] interacts with 311 human partners: {P49589;O95363;O43542;Q16763;Q9C000;Q86VD1;Q9Y2X8;O43502;Q6ZVT0;Q9H0S4;P48643;Q9NSE4;Q9H4L7;P54278;P07814;O43933;Q9NPD8;Q0VDF9;O00148;Q9UN37;Q9HCK8;P60709;P13010;P49336;Q9UM54;Q496M5;P62253;Q9UHN1;O14920;Q6ZW61;Q8IYM2;P38935;P31749;Q8TD26;Q9Y2Z4;Q96Q89;Q12905;Q29NUU7;P51532;P35251;Q9UBP0;Q9Y3D8;P50750;P13533;O96017;Q9Y287;Q86WI3;Q14692;P62736;P22392;Q9Y623;P68036;Q969M7;Q9ULW0;Q9UNY4;P41252;P51955;Q6PI48;P25205;P52701;O75582;A6NDB9;P45984;P51531;O43913;Q5ST30;Q08211;O43681;Q8TE04;Q9BRP7;Q13057;Q9Y6K5;Q5TCQ9;P34932;Q8IYD8;Q00536;P40692;Q53G26;Q9P2D1;P46100;P46013;A2RTX5;Q5EBM0;P26196;Q9UGM6;Q03468;O43318;Q96PY6;O00444;Q5JPH6;Q9NP81;Q9NZJ4;P29728;Q6ZRS2;Q96LR5;Q9UHC1;P62837;Q9HA77;Q9Y5Y2;Q9P2R7;P50991;Q9NWZ5;P51003;Q9BZ23;P41250;P17987;Q8TD19;A8MQ11;O60884;Q9H1H9;P11055;P19367;Q96KG9;O43237;Q99741;P32189;P49427;P33076;P26640;Q6P3W7;Q02241;P38646;Q9Y6X9;Q13233;Q96RU7;O94762;P49591;P13984;O75943;Q86XW9;P19447;O43776;P61163;Q96DU7;O95163;Q712K3;Q9HCE1;Q14839;P30291;P51965;P68133;Q86Y91;Q8TE76;Q9BYK8;O43615;P54277;O14646;O96019;P49770;P61088;Q9Y285;Q14204;Q14164;P49917;P12883;Q8WW22;P08238;Q7Z333;Q9UQE7;P60604;Q9NSD9;P50613;O95347;P59047;Q13838;Q9ULG1;Q5D0E6;Q58FF3;P07900;P49459;O00159;Q14683;O95922;Q9BTE6;Q14149;P63261;O15315;O15315;Q15315;P11388;Q9UHI6;P61077;Q16740;Q9Y6G9;P12882;O15111;P16452;Q8N841;Q9BZQ4;Q5T160;Q9NVP1;Q9Y2W1;P62256;Q9BW92;P35749;P49916;Q96S55;P08107;P35579;Q969T4;O00762;Q92614;Q9UKX2;Q92841;Q9NVV4;Q9NQX7;P56192;Q12840;P55072;Q14240;O00139;Q9NTI5;Q9NTK5;P28370;P45985;Q9P0J0;Q14527;Q8NE71;O60825;Q9HAN9;Q9H3H1;P54136;Q9H9F9;Q86WJ1;P49368;Q92900;Q15058;P41208;P16118;Q13415;P26639;Q9H832;O43543;Q86UW6;Q9H2U1;Q9NRZ9;Q06609;Q9HBD4;P20585;P21127;Q15031;P11388;Q9UHI6;P61077;Q12798;Q9UMR2;P11387;Q9BYX4;P38919;P61086;Q96C10;Q7L3T8;O14965;Q9P2J5;Q9NS86;O76031;O75351;Q96B02;P60842;A5A3E0;Q92499;Q8IY18;Q96EY1;P35580;P12956;Q9BW19;P42025;Q00839;P13535;Q8IVS8;P24941;Q15759;P23381;P51668;Q14566;P11142;Q9NTJ3;Q7L2E3;P11802;Q13472;Q15257;Q13761;O94921;P47897;P14868;P78371;Q9H0A0;Q9BX63;P31689;O94805;Q99640;Q8N3C0;Q92698;P33992;Q96GW9;O95396;P14618;Q12873;Q99986;P61604;Q7Z7A3;Q9UIG0;P21675;O60264;Q14978;Q96I59;P12270;Q05932;P14625;P63146;Q8IWT3;Q15046;Q00534;Q3L8U1}
- 9650 Pathogen[ P03363] interacts with 243 human partners: {A14978;Q9Y2Z4;Q9Y6K5;P12956;O94762;Q9BX63;Q9H832;Q3L8U1;Q9NVV4;P51965;O43933;P60604;A5A3E0;Q7Z333;P54652;P38919;Q9NWZ5;P41252;P07900;O14920;P12270;P49459;O75643;Q8IY21;Q9NSD9;Q9ULG1;Q2VIQ3;P13984;A2RTX5;O00762;P60709;Q9NZJ4;Q9C000;P21127;Q92900;P33176;P35579;Q9UHI6;P11387;Q9H4L7;P22314;Q96I59;P13010;P14868;Q9HAN9;P25205;P61081;O95347;P49589;Q9UKX2;Q13283;Q6ZRS2;O15111;P41250;Q9UHC1;P51532;Q96JP2;P62736;Q9NX02;Q9ULW0;Q9NUU7;O95922;Q9NTK5;Q14204;P35251;Q02241;P47897;P68133;Q5JPH6;O43318;Q86UW6;O43776;P24941;Q8IVS8;P63146;Q14839;P41208;Q7Z4S6;P49427;P23381;Q14807;Q92620;Q9H0S4;Q9UNY4;P33992;Q7Z7A3;P46100;Q53G26;P50991;Q6ZMV9;O96017;O60264;P61088;O75351;O60282;Q9H9F9;Q00534;O43615;P61163;Q14562;P20585;P54136;Q9HCK8;Q9UN37;Q9NUL7;O96019;Q12798;P08107;Q92841;Q13415;Q14240;P46063;P34932;P54278;Q9BTE6;Q9P0J0;P31749;Q8NB16;P51003;Q14527;Q86WI3;Q6PI48;O00148;Q9Y3D8;Q99741;Q13472;P38646;Q9HCE1;Q5TCQ9;Q9HBD4;Q8IYD8;P54277;Q96KG9;Q5T7B8;P17987;O95163;Q92499;P49336;Q8N841;O94805;P62256;P26196;Q13838;Q9BYK8;P59047;Q969T4;O95363;P63279;Q86XW9;Q12905;Q4G0Z9;O43542;P42025;O76031;Q6ZW61;Q96S55;O15066;P51668;Q92614;P49770;P21675;O14646;P33076;Q9UMR2;Q9P2J5;P60842;Q86XP3;Q9NPD8;Q03468;Q9BW92;P50750;Q8TD26;Q15257;P63261;P49591;Q9Y285;P78371;Q8NE71;Q9BYX4;Q9NTI5;Q969M7;Q9Y5Y2;Q8IWT3;O75771;Q12873;P28370;Q15058;Q06609;Q7L3T8;Q8IZE3;P61077;Q96Q89;Q9UHN1;O60333;Q7L2E3;Q9NVP1;Q15031;Q00839;Q9H1H9;P16452;Q9Y2X8;P62837;Q9NPP4;P11802;P46013;Q9H2U1;P07814;Q13761;O00139;Q8TE76;P51531;Q86WJ1;Q96EY1;O75943;Q08211;Q0VDF9;Q8IY18;O43237;Q9H6S0;P08238;P48643;Q5T890;Q5T160;Q00536;Q14683;Q13233;A6NDB9;P38935;Q7Z7E8;Q12840;P11142;Q92698;P61604;A0AVT1;Q8N3C0;P68036;P49368;O43502;Q13401;O15315;P42285;O14757;O43913}
- 9651 [Cluster 878]GO:0000987+F molecular\_function [name] core promoter proximal region sequence-specific DNA binding [def] "Interacting selectively and non-covalently with a sequence of DNA that is in cis with and relatively close to the core promoter. The transcribed region might be described as a gene, cistron, or operon." [GOC
- 9652 Pathogen[ Q2Q067] interacts with 6 human partners: {Q13485;Q96T88;Q02447;P08047;P84022;Q92793}
- 9653 Pathogen[ P0C214] interacts with 6 human partners: {Q92793;P84022;Q96T88;Q13485;Q02447;P08047}
- 9654 Pathogen[ P03346] interacts with 9 human partners: {P15173;Q13351;P08047;P84022;Q9Y5R6;Q13485;Q92793;Q02447;Q96T88}
- 9655 Pathogen[ Q85601] interacts with 6 human partners: {P08047;Q96T88;Q02447;P84022;Q92793;Q13485}
- 9656 Pathogen[ P14079] interacts with 3 human partners: {Q92793;Q02447;Q13351}
- 9657 Pathogen[ P03383] interacts with 5 human partners: {Q13485;P08047;P84022;Q02447;Q92793}
- 9658 Pathogen[ P03410] interacts with 5 human partners: {P84022;Q02447;Q92793;Q13485;P08047}
- 9659 Pathogen[ P14075] interacts with 5 human partners: {Q13485;Q02447;Q92793;P84022;P08047}
- 9660 Pathogen[ P0C206] interacts with 7 human partners: {P84022;Q9Y5R6;Q92793;P08047;Q96T88;Q02447;Q13485}
- 9661 Pathogen[ P03363] interacts with 7 human partners: {Q02447;Q9Y5R6;P84022;Q92793;Q13485;Q96T88;P08047}
- 9662 [Cluster 879]GO:0051721+F molecular\_function [name] protein phosphatase 2A binding [def] "Interacting selectively and non-covalently with the enzyme protein phosphatase 2A." [GOC
- 9663 Pathogen[ Q2Q067] interacts with 8 human

9664 partners:{Q9UPR3;Q13033;Q86XL3;O43768;Q9NRL3;P56211;Q15257;Q92540}  
Pathogen[ P0C214] interacts with 8 human

9665 partners:{O43768;Q13033;Q15257;Q92540;P56211;Q86XL3;Q9UPR3;Q9NRL3}  
Pathogen[ P03346] interacts with 10 human

9666 partners:{Q9UPR3;Q15257;O43815;P56211;O43768;Q13033;Q12778;Q92540;Q86XL3;Q9NRL3}  
Pathogen[ Q85601] interacts with 9 human

9667 partners:{Q9NRL3;Q92540;O43815;P56211;Q86XL3;O43768;Q13033;Q9UPR3;Q15257}  
Pathogen[ P14079] interacts with 8 human

9668 partners:{O43768;Q13033;O43815;Q92540;Q86XL3;P56211;Q9NRL3;Q9UPR3}  
Pathogen[ P03383] interacts with 7 human

9669 partners:{Q15257;Q9UPR3;O43768;Q9NRL3;Q13033;Q92540;P56211}  
Pathogen[ P03410] interacts with 9 human

9670 partners:{Q92540;Q9NRL3;Q9UPR3;Q15257;Q13033;O43768;O43815;P56211;Q86XL3}  
Pathogen[ P14075] interacts with 7 human

9671 partners:{Q15257;Q9UPR3;O43768;Q9NRL3;P56211;Q92540;Q13033}  
Pathogen[ P0C206] interacts with 9 human

9672 partners:{O43815;Q86XL3;P56211;Q9NRL3;O43768;Q9UPR3;Q13033;Q92540;Q15257}  
Pathogen[ P03363] interacts with 9 human

9673 partners:{Q9UPR3;Q13033;O43815;O43768;Q9NRL3;Q15257;Q92540;P56211;Q86XL3}  
[Cluster 880]GO:0019237+F molecular\_function [name] centromeric DNA binding [def]  
"Interacting selectively and non-covalently with a centromere, a region of chromosome  
where the spindle fibers attach during mitosis and meiosis." [GOC

9674 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9UHC1;O43264;P07199}  
9675 Pathogen[ P0C214] interacts with 4 human partners:{O43264;P20585;P07199;Q9UHC1}  
9676 Pathogen[ P03346] interacts with 4 human partners:{O43264;Q9UHC1;P20585;P07199}  
9677 Pathogen[ Q85601] interacts with 4 human partners:{O43264;P07199;P20585;Q9UHC1}  
9678 Pathogen[ P14079] interacts with 5 human  
partners:{P07199;P20585;Q9UHC1;Q99661;O43264}

9679 Pathogen[ P03383] interacts with 3 human partners:{O43264;Q9UHC1;P07199}  
9680 Pathogen[ P03410] interacts with 4 human partners:{P20585;O43264;P07199;Q9UHC1}  
9681 Pathogen[ P14075] interacts with 3 human partners:{P07199;Q9UHC1;O43264}  
9682 Pathogen[ P0C206] interacts with 4 human partners:{Q9UHC1;P07199;P20585;O43264}  
9683 Pathogen[ P03363] interacts with 4 human partners:{Q9UHC1;O43264;P07199;P20585}

9684 [Cluster 881]GO:0019901+F molecular\_function [name] protein kinase binding [def]  
"Interacting selectively and non-covalently with a protein kinase, any enzyme that  
catalyzes the transfer of a phosphate group, usually from ATP, to a protein substrate."  
[GOC

9685 Pathogen[ Q2Q067] interacts with 109 human  
partners:{P30281;Q92585;P31749;P42773;Q9Y333;Q9H4X1;Q8IUC6;P56524;O75909;P24385;Q9963  
8;O43663;O95684;P40763;Q8WWL7;Q6PGQ7;O14974;Q9Y3C4;Q9UJT2;O60260;Q9P0M2;Q8N1B3;Q96SL8  
;Q04206;P30279;P62140;Q86WB0;O95999;P36956;P56945;Q9HC77;P06748;Q86WV1;O15350;Q7L804;  
Q8TDY2;Q96SN8;P04792;P30304;O60563;Q8TCI5;Q2M2Z5;P22674;P14635;Q08050;O43524;Q12959;P  
30307;Q9UJM3;Q92831;O96017;P12755;Q9UNN5;Q5MJ68;P84022;Q5MJ70;O76095;Q86T82;P25063;P3  
6873;Q13114;P24864;O95067;P18669;Q13233;P13807;Q16543;P78396;Q8WUI4;Q9ULW0;P20248;O96  
020;Q96S94;O94986;Q9UQF2;Q96RU7;O75143;P23396;P15336;Q9UKT4;Q8NFX5;O14920;P22415;P427  
71;P60953;O60583;P24863;P27986;Q9BZR8;P30305;Q9H875;P26651;Q9BX66;P08670;O95453;Q8ND7  
6;Q9UMX1;P62753;Q96EY1;Q15797;Q16526;Q13501;P68104;Q7Z699;P42772;Q9BV73;P51946;Q9UK58  
;Q96JB5}

9686 Pathogen[ P0C214] interacts with 112 human  
partners:{Q96S94;Q92585;Q8ND76;P20248;P51946;P24863;P60709;Q16543;Q9H4X1;P30307;Q9H87  
5;P62140;O94986;O95453;O75909;P56945;O95684;Q9Y3C4;P62993;P15336;Q8IUC6;Q7Z699;Q92934  
;P06748;P23396;O15350;Q96SN8;Q8N1B3;Q9P0M2;P04792;Q86Y37;P84022;Q86WB0;Q9BX66;P56524;  
Q8TCI5;Q9UJM3;Q9HC77;Q04206;P60953;Q8TDY2;P14635;P24385;Q5MJ68;Q9UK58;Q7L804;O14974;Q  
13501;O60825;Q9Y333;Q13233;O75143;O96017;Q9UNN5;Q9UJT2;P78396;O95999;P30281;P62753;O6  
0583;Q9ULW0;P08670;O43663;O95067;P19429;P42771;P22674;P30305;P25063;P12755;Q12959;Q9U  
QF2;P26651;P42773;O60563;Q2M2Z5;Q86WV1;Q8NFX5;Q96RU7;Q92831;Q13114;P24864;P30279;Q9BV  
73;Q16526;P36873;Q96SL8;Q86WV6;P40763;O60260;P13533;Q5MJ70;Q8WWL7;P22415;Q15797;Q8WUI  
4;Q99638;P63261;O15524;P30304;P27986;P13807;Q9UMX1;O14920;Q6PGQ7;Q96EY1;Q9UKT4;Q96JB5  
;P42772;P31749;O96020;Q9BZR8}

9687 Pathogen[ P03346] interacts with 125 human  
partners:{P30281;Q92585;Q8ND76;P78396;Q9H4X1;Q9P0M2;O15524;P13807;P55273;P24385;P3027  
9;O96017;Q96S94;O95684;P06748;P15336;Q5MJ70;Q2M2Z5;P36956;O75143;Q15797;Q8N1B3;Q8NFX5  
;O60563;P0C7Q3;O96020;Q9P2D0;Q8IUV1;P24863;Q969U6;P30304;P42772;Q86WB0;P56524;Q9HC77;  
P60709;Q04206;P24864;Q8TDY2;Q08050;P60953;P62993;Q16526;Q92831;Q99638;O15350;Q9BX66;P  
42771;O95067;Q13114;Q86T82;Q9Y333;P26038;P30305;O95999;O95453;O60583;Q5MJ68;P18669;P8  
4022;Q9ULW0;Q7L804;P56945;Q9UNN5;Q9Y3C4;P31749;P14635;O94986;Q96SN8;Q8WWL7;P36873;Q9U  
JT2;Q8TD19;P51946;P20248;Q96JB5;Q8NFX2;Q16543;Q9UK58;Q9UKT4;Q12778;Q13233;Q8WUI4;Q86Y  
37;P98177;Q9H875;Q9BZR8;P42773;P08670;Q96RU7;Q9BUZ4;O75909;P23396;O60260;Q8IUC6;Q96SL  
8;Q9UQF2;Q8TCI5;P25063;P62140;O14920;Q7Z699;O76095;Q9C0H9;P26651;O43663;P40763;O14974  
;O43524;Q86WV1;Q9UMX1;Q6PGQ7;P62753;O14965;P22674;Q96EY1;P04792;P27986;P68104;P30307;  
Q13501;P22415;Q12959;Q9UJM3;Q9BV73}

9688 Pathogen[ Q85601] interacts with 118 human  
partners:{P51946;P30281;P22674;Q92585;Q86WV6;Q16543;Q9H4X1;P13807;O75143;P55273;P3174  
9;P62993;P24385;O94986;O96017;O60563;Q7L804;O95684;O75909;Q8IUC6;Q2M2Z5;P13533;Q9UK58  
;Q9P2D0;P08670;Q9BX66;Q15797;Q96SN8;Q8N1B3;Q9UKT4;P23396;P40763;P18669;Q8ND76;O60583;  
P62753;P42772;O60825;Q86WB0;Q9HC77;Q8TDY2;P30304;Q92831;Q86Y37;Q9ULW0;Q13114;P12755;Q



- 9688 9UQF2;P27986;O43663;P60709;P26651;Q8TCI5;P22415;O96020;P30305;O14965;Q86WV1;P30307;P56945;Q96JB5;Q9UNN5;P14635;Q8NFZ5;Q9BV73;P36956;Q9NQC7;P63261;Q6PGQ7;O14920;Q04206;Q9H875;O95453;P36873;P68104;P30279;P20248;P78396;P42771;P06748;Q5MJ68;P42773;Q96RU7;Q96S94;Q86T82;P84022;O60260;Q9P0M2;Q12959;O76095;Q9UJM3;P56524;P60953;Q08050;P04792;O14974;O15350;P62140;Q7Z699;P24863;Q13233;Q96SL8;O95067;O95999;P15336;Q9Y333;Q8WUI4;Q9BZR8;Q16526;Q9Y3C4;Q9UMX1;Q96EY1;Q9UJT2;Q99638;Q13501;Q8WVW1;P24864;Q5MJ70}
- Pathogen[ P14079] interacts with 119 human
- partners: {Q2M2Z5;Q9H8S5;Q9Y333;O60260;Q7L804;Q8N1B3;Q6PGQ7;P12755;Q5MJ70;P23396;P63261;Q86WV1;P19429;P30307;Q9UKT4;Q16526;P51946;O95999;O95684;P52564;O43597;Q9BV87;P78396;P68104;P24864;Q9UJM3;Q8TDY2;P36873;P62753;Q8IUC6;Q8N0X2;O94986;O76095;Q9P0M2;Q9UQF2;P24588;P13807;Q8WUI4;O14974;P26038;Q96S94;Q9UMX1;O95067;Q5MJ68;Q9BV73;Q8ND76;Q9ULW0;Q9C0H9;Q15797;O95453;O75143;P30304;Q9BUZ4;O15350;Q7Z434;P55273;Q15078;O75952;Q9BZR8;Q7Z699;O43663;Q7Z7J9;P14635;Q9UNN5;Q9UK58;Q92934;Q86WV6;Q8NFZ5;P24863;Q8TCI5;Q9Y478;P25063;P62140;P15336;Q9Y3C4;O75909;P60709;Q8WVW1;P06748;Q13501;Q86WB0;Q96SL8;Q8IUV1;Q96RU7;P20248;P62993;Q9H875;Q96SZ6;O60583;Q99638;O43561;P18669;Q96JB5;P08670;P30305;P42773;Q8N7R7;P04792;O96020;P0C7Q3;O95235;Q86Y37;Q16543;P56524;Q9BX66;O14965;P36956;Q92585;Q9NQC7;Q9HC77;Q96SN8;Q96EY1;Q9P2D0;Q9UJT2;P22674;Q13114;P42771;P10636;P22415}
- 9690 Pathogen[ P03383] interacts with 97 human
- partners: {P30307;P27986;P62140;Q7L804;Q92585;P56945;Q92831;Q16543;Q9H4X1;Q9UK58;P06748;O75143;Q94986;Q8IUC6;Q13233;O95684;Q8TD19;P08670;Q96SL8;O14920;P31749;P22674;Q96SN8;Q8N1B3;Q9UJM3;Q8WVW1;P60953;P18669;P62753;Q86WV1;P25063;P30304;Q9BV73;P13807;Q86WB0;Q9HC77;P24385;Q8TDY2;Q9UKT4;P04792;Q15797;Q96JB5;Q9UQF2;P14635;P78396;P36873;P30279;Q8TCI5;Q2M2Z5;P84022;O60563;O60260;P42772;Q9UNN5;P51946;Q6PGQ7;Q9UJT2;Q5MJ68;O75909;P68104;O95067;Q9Y333;O15350;O96020;Q8ND76;O95999;Q13501;P42771;P26651;O14965;Q9Y3C4;Q96RU7;Q99638;P56524;Q04206;Q9ULW0;P24863;O43663;P15336;O76095;Q8WUI4;P24864;P30281;O95453;Q9C0H9;Q9H875;Q9UMX1;O60583;Q13114;Q8NFZ5;P23396;Q96EY1;P20248;P22415;O96017;Q5MJ70;Q16526}
- 9691 Pathogen[ P03410] interacts with 132 human
- partners: {P84022;Q9UJT2;Q9UKT4;O95684;Q92831;Q04206;O60583;Q9H875;P42771;Q7L804;P36956;Q9H4X1;Q86WB0;P27986;Q9UNN5;O14920;P68104;Q86WV1;P30279;Q8NFZ5;O43597;Q16543;P42772;P12755;Q9HC77;Q7Z699;P19429;Q8N1B3;O96020;Q8N0X2;Q12959;Q9Y3C4;O43561;Q8WVW1;Q96SN8;P51946;Q8IUV1;O75143;Q9Y333;Q8TDY2;P55273;Q13501;P22674;O95067;P31749;P04792;P23396;Q92934;P06748;O60260;Q13233;P26651;Q5MJ68;Q92585;Q9BV87;Q7Z434;Q8WUI4;Q96JB5;P78396;O14965;O75952;O60563;P24385;Q9P0M2;O94986;O95453;P14635;O95999;P26038;P62140;P25063;P30304;Q99638;P56524;Q15797;O75909;P22415;P13807;O14974;Q16526;Q86Y37;O96017;P36873;Q96S94;Q7Z7J9;Q6PGQ7;P20248;P18669;P08670;P30281;P10636;Q96RU7;P24863;P60953;Q969U6;Q8TCI5;Q9ULW0;P56945;Q2M2Z5;Q8IUC6;O15350;Q86WV6;P63261;P13533;Q5MJ70;O76095;Q9BZR8;Q9UQF2;Q9C0H9;P30305;Q9UK58;Q9P2D0;Q8N7R7;P0C7Q3;P62993;P15336;P24864;P40763;Q96SL8;Q9UMX1;P42773;Q9BV73;Q8ND76;P30307;Q96EY1;Q9BX66;Q9UJM3;P24588;P62753;P60709;Q13114;O43663}
- 9692 Pathogen[ P14075] interacts with 98 human
- partners: {P60953;O95453;Q92585;Q16543;Q9H4X1;P24863;Q04206;O95067;Q8IUV1;O95684;O43663;Q5MJ70;P68104;Q92831;Q9Y3C4;O76095;Q9UKT4;O75143;P14635;Q8N1B3;P30281;P30279;O60563;P26651;Q96SL8;Q86WB0;P56524;Q08050;Q9HC77;P18669;P42771;Q8TDY2;O60583;P04792;Q96SN8;P62140;Q96JB5;P15336;O96020;Q5MJ68;Q8NFZ5;P36873;P78396;Q99638;Q86WV1;Q9ULW0;O14920;P31749;Q9UNN5;P22674;P62753;O96017;Q9UJM3;O15350;Q7L804;O14965;Q8WVW1;Q9BV73;P27986;P23396;P20248;Q8TCI5;Q13114;P06748;Q9Y333;O95999;P30304;O94986;P08670;P51946;Q96RU7;Q8IUC6;Q9UK58;P42772;Q16526;Q8ND76;P13807;P24385;P22415;P84022;Q8WUI4;Q9C0H9;Q13233;O75909;O60260;P30307;Q9UMX1;Q9UQF2;Q6PGQ7;Q96EY1;Q2M2Z5;Q9UJT2;Q13501;Q9H875;P56945;P25063;P24864;Q8TD19}
- 9693 Pathogen[ P0C206] interacts with 131 human
- partners: {Q8TCI5;Q9NQC7;Q9UNN5;P84022;P24863;Q13501;Q8WVW1;O75952;P60709;O94986;Q86Y37;O14920;Q96SN8;O95453;P31749;Q9HC77;Q9H4X1;P26651;O95684;Q13114;Q5MJ68;P30307;P13533;O96017;Q9BZR8;Q96SL8;Q9UMX1;Q9ULW0;P30279;O95999;Q8IUV1;P19429;Q8NFZ5;Q6PGQ7;P15336;P20248;P42771;Q16543;P04792;P36956;P42772;P30305;O15524;Q86WV6;Q96S94;Q8TD19;Q9UQF2;P10636;Q92831;O96020;P27986;Q13233;P62993;Q96RU7;P13807;P12755;Q96JB5;Q8N1B3;P0C7Q3;Q92934;Q99638;Q9Y333;O14974;Q9UJT2;Q9UKT4;P42773;Q9BUZ4;Q9UK58;Q2M2Z5;Q16526;P22415;P25063;P23396;Q9P0M2;P63261;Q8WUI4;Q04206;Q86WV1;O60260;P55273;Q8TDY2;O43663;Q86T82;Q9BV73;P40763;O43597;P60953;Q9C0H9;P62140;O60825;O75909;Q9H875;Q8IUC6;Q9BX66;Q9UJM3;Q08050;P30304;Q15797;P78396;Q9Y3C4;O15350;Q86WB0;O95067;P56945;Q8ND76;P06748;P14635;Q7L804;P08670;P56524;O60583;O14965;P62753;O75143;Q9P2D0;P36873;O60563;Q96EY1;P24864;Q12959;P68104;P22674;Q7Z699;Q5MJ70;Q969U6;P18669;Q92585;O76095;P51946;P24385;P30281}
- 9694 Pathogen[ P03363] interacts with 108 human
- partners: {Q9UNN5;Q96S94;Q12959;Q9H875;Q13151;Q8WVW1;P23396;Q8N0X2;P13807;Q7L804;Q9HC77;O14920;Q04206;Q9H4X1;Q86WB0;P18669;Q9BX66;O95453;P36873;P24864;O15524;P60709;O60563;Q9UMX1;P62753;P62140;P24863;Q86WV1;P30279;Q92831;P20248;Q9UQF2;O95684;O75909;Q9ULW0;P51946;Q8TCI5;O75143;Q9P2D0;O94986;Q8ND76;Q5MJ68;P0C7Q3;Q9BZR8;Q15797;Q6PGQ7;P06748;Q9P0M2;Q8N1B3;O96017;P30304;O43524;P15336;Q9UK58;Q16543;Q9Y333;Q08050;Q7Z699;O60583;O95067;O96020;P42772;Q9Y3C4;Q15717;P31749;Q86T82;P78396;P08670;Q5MJ70;P84022;Q9UKT4;Q8TDY2;P22415;Q96SL8;O76095;O14974;P24385;Q99638;Q16526;Q8WUI4;P56945;P26651;Q13114;P63261;Q9UJM3;Q8NFZ5;P42773;Q969U6;O43663;P22674;Q9BUZ4;P30307;Q96EY1;P30281;Q96JB5;P19429;Q9UJT2;P60953;P27986;Q13233;P04792;Q2M2Z5;P42771;Q9BV73;P68104;Q92585;Q96SN8;Q9C0H9}
- 9695 [Cluster 882]GO:0008649+F molecular\_function [name] rRNA methyltransferase activity [def] "Catalysis of the transfer of a methyl group from S-adenosyl-L-methionine to a nucleoside residue in an rRNA molecule." [GOC
- 9696 Pathogen[ Q2Q067] interacts with 3 human partners: {Q9H5Q4;Q8WVM0;Q9UNQ2}

9697 Pathogen[ P0C214] interacts with 3 human partners: {Q9UNQ2;Q8WVM0;Q9H5Q4}  
9698 Pathogen[ P03346] interacts with 3 human partners: {Q9UNQ2;Q9H5Q4;Q8WVM0}  
9699 Pathogen[ Q85601] interacts with 3 human partners: {Q9H5Q4;Q8WVM0;Q9UNQ2}  
9700 Pathogen[ P14079] interacts with 4 human partners: {Q9UNQ2;Q96FB5;Q9H5Q4;Q8WVM0}  
9701 Pathogen[ P03383] interacts with 3 human partners: {Q9UNQ2;Q9H5Q4;Q8WVM0}  
9702 Pathogen[ P03410] interacts with 4 human partners: {Q9UNQ2;Q9H5Q4;Q96FB5;Q8WVM0}  
9703 Pathogen[ P14075] interacts with 3 human partners: {Q9H5Q4;Q9UNQ2;Q8WVM0}  
9704 Pathogen[ P0C206] interacts with 3 human partners: {Q8WVM0;Q9UNQ2;Q9H5Q4}  
9705 Pathogen[ P03363] interacts with 3 human partners: {Q9UNQ2;Q8WVM0;Q9H5Q4}  
9706 [Cluster 883]GO:0035035+F molecular\_function [name] histone acetyltransferase binding  
[def] "Interacting selectively and non-covalently with the enzyme histone  
acetyltransferase." [GOC  
9707 Pathogen[ Q2Q067] interacts with 8 human  
partners: {Q8IXJ6;P08047;Q9Y6B2;Q15545;Q14872;Q99814;Q02078;P18146}  
9708 Pathogen[ P0C214] interacts with 8 human  
partners: {Q14872;Q15545;Q02078;Q9Y6B2;P18146;Q99814;Q8IXJ6;P08047}  
9709 Pathogen[ P03346] interacts with 8 human  
partners: {Q02078;Q14872;Q8IXJ6;P08047;Q99814;Q9Y6B2;P18146;Q15545}  
9710 Pathogen[ Q85601] interacts with 8 human  
partners: {P18146;Q02078;Q14872;Q15545;Q99814;P08047;Q9Y6B2;Q8IXJ6}  
9711 Pathogen[ P14079] interacts with 6 human  
partners: {Q02078;Q99814;Q8IXJ6;Q14872;Q9Y6B2;Q15545}  
9712 Pathogen[ P03383] interacts with 6 human  
partners: {P08047;P18146;Q14872;Q9Y6B2;Q15545;Q02078}  
9713 Pathogen[ P03410] interacts with 8 human  
partners: {Q8IXJ6;Q99814;Q9Y6B2;Q14872;Q02078;P08047;P18146;Q15545}  
9714 Pathogen[ P14075] interacts with 6 human  
partners: {P18146;Q9Y6B2;Q15545;Q02078;Q14872;P08047}  
9715 Pathogen[ P0C206] interacts with 8 human  
partners: {Q15545;Q02078;P18146;P08047;Q14872;Q8IXJ6;Q9Y6B2;Q99814}  
9716 Pathogen[ P03363] interacts with 7 human  
partners: {P18146;Q15545;Q14872;Q99814;Q9Y6B2;P08047;Q02078}  
9717 [Cluster 884]GO:0000179+F molecular\_function [name] rRNA  
(adenine-N6,N6-)-dimethyltransferase activity [def] "Catalysis of the dimethylation two  
adjacent A residues in the loop closing the 3'-terminal stem of the 18S rRNA, using  
S-adenosyl-L-methionine as a methyl donor." [ISBN  
9718 Pathogen[ Q2Q067] interacts with 3 human partners: {Q9H5Q4;Q8WVM0;Q9UNQ2}  
9719 Pathogen[ P0C214] interacts with 3 human partners: {Q9UNQ2;Q8WVM0;Q9H5Q4}  
9720 Pathogen[ P03346] interacts with 3 human partners: {Q9UNQ2;Q9H5Q4;Q8WVM0}  
9721 Pathogen[ Q85601] interacts with 3 human partners: {Q9H5Q4;Q8WVM0;Q9UNQ2}  
9722 Pathogen[ P14079] interacts with 4 human partners: {Q9UNQ2;Q96FB5;Q9H5Q4;Q8WVM0}  
9723 Pathogen[ P03383] interacts with 3 human partners: {Q9UNQ2;Q9H5Q4;Q8WVM0}  
9724 Pathogen[ P03410] interacts with 4 human partners: {Q9UNQ2;Q9H5Q4;Q96FB5;Q8WVM0}  
9725 Pathogen[ P14075] interacts with 3 human partners: {Q9H5Q4;Q9UNQ2;Q8WVM0}  
9726 Pathogen[ P0C206] interacts with 3 human partners: {Q8WVM0;Q9UNQ2;Q9H5Q4}  
9727 Pathogen[ P03363] interacts with 3 human partners: {Q9UNQ2;Q8WVM0;Q9H5Q4}  
9728 [Cluster 885]GO:0003755+F molecular\_function [name] peptidyl-prolyl cis-trans  
isomerase activity [def] "Catalysis of the reaction  
9729 Pathogen[ Q2Q067] interacts with 12 human  
partners: {Q9UNP9;Q13356;Q9H2H8;P49792;Q13427;O43447;Q9Y237;Q15257;Q13526;Q08752;P2328  
4;P62937}  
9730 Pathogen[ P0C214] interacts with 21 human  
partners: {Q9Y536;Q6UX04;A2BFH1;Q13526;P30405;Q13427;P49792;P23284;Q15257;P30414;Q9H2H  
8;Q9Y237;P45877;Q9Y3C6;F5H284;Q13356;Q96BP3;O43447;Q08752;Q8IXY8;Q9UNP9}  
9731 Pathogen[ P03346] interacts with 17 human  
partners: {Q9H2H8;O43447;Q9Y3C6;Q6UX04;P62937;Q15257;Q96BP3;Q13526;Q13427;Q9Y237;Q0875  
2;Q9UNP9;Q13356;Q9Y536;A2BFH1;P49792;P23284}  
9732 Pathogen[ Q85601] interacts with 21 human  
partners: {F5H284;P30405;Q6UX04;A2BFH1;Q9H2H8;Q96BP3;Q13427;Q08752;Q13526;P23284;Q9Y3C  
6;Q13356;P30414;O43447;P49792;Q8IXY8;Q15257;Q9Y536;P62937;Q9Y237;P45877}  
9733 Pathogen[ P14079] interacts with 16 human  
partners: {O43447;Q8IXY8;Q08752;Q9Y237;P62937;Q13427;F5H284;Q13356;P45877;Q9H2H8;A2BFH  
1;P23284;Q6UX04;Q13526;Q9Y536;Q96BP3}  
9734 Pathogen[ P03383] interacts with 12 human  
partners: {P49792;Q13356;Q9UNP9;Q15257;Q96BP3;Q9H2H8;P62937;Q08752;O43447;Q13427;P2328  
4;Q13526}  
9735 Pathogen[ P03410] interacts with 22 human  
partners: {Q08752;Q13526;Q9Y536;Q96BP3;Q15257;Q13356;Q9H2H8;P62937;P45877;Q6UX04;Q9Y3C  
6;P23284;Q9UNP9;F5H284;Q8IXY8;P30414;Q13427;Q9Y237;O43447;P30405;A2BFH1;P49792}  
9736 Pathogen[ P14075] interacts with 10 human  
partners: {Q15257;Q08752;P23284;P49792;Q9UNP9;Q13526;O43447;P62937;Q13427;Q9H2H8}  
9737 Pathogen[ P0C206] interacts with 21 human  
partners: {Q9Y536;Q9UNP9;Q13526;Q08752;Q96BP3;A2BFH1;F5H284;P49792;Q9Y3C6;Q13427;P2328  
4;Q13356;O43447;Q9Y237;P45877;Q9H2H8;P30405;P62937;Q15257;Q8IXY8;Q6UX04}  
9738 Pathogen[ P03363] interacts with 17 human  
partners: {P23284;Q13427;P62937;A2BFH1;Q6UX04;Q13356;Q96BP3;Q9Y3C6;Q08752;Q13526;O4344

7;P49792;Q9Y237;Q15257;Q9Y536;Q9H2H8;Q9UNP9]

9739 [Cluster 886]GO:0034512+F molecular\_function [name] box C/D snoRNA binding [def]  
"Interacting selectively and non-covalently with box C/D small nucleolar RNA." [GOC

9740 Pathogen[ Q2Q067] interacts with 1 human partners:{Q14978}

9741 Pathogen[ P0C214] interacts with 1 human partners:{Q14978}

9742 Pathogen[ P03346] interacts with 1 human partners:{Q14978}

9743 Pathogen[ Q85601] interacts with 1 human partners:{Q14978}

9744 Pathogen[ P14079] interacts with 1 human partners:{Q14978}

9745 Pathogen[ P03383] interacts with 1 human partners:{Q14978}

9746 Pathogen[ P03410] interacts with 1 human partners:{Q14978}

9747 Pathogen[ P14075] interacts with 1 human partners:{Q14978}

9748 Pathogen[ P0C206] interacts with 1 human partners:{Q14978}

9749 Pathogen[ P03363] interacts with 1 human partners:{Q14978}

9750 [Cluster 887]GO:0046965+F molecular\_function [name] retinoid X receptor binding [def]  
"Interacting selectively and non-covalently with a retinoid X receptor." [GOC

9751 Pathogen[ Q2Q067] interacts with 9 human  
partners:{P11473;P48552;P55055;Q15466;Q14686;P17096;Q71SY5;O75376;Q96RL1}

9752 Pathogen[ P0C214] interacts with 7 human  
partners:{Q71SY5;P48552;P17096;Q14686;O75376;Q96RL1;Q15466}

9753 Pathogen[ P03346] interacts with 9 human  
partners:{P11473;Q71SY5;Q15466;Q96RL1;P17096;O75376;P48552;P55055;Q14686}

9754 Pathogen[ Q85601] interacts with 9 human  
partners:{P11473;P17096;Q96RL1;Q15466;P55055;Q14686;Q71SY5;O75376;P48552}

9755 Pathogen[ P14079] interacts with 9 human  
partners:{P48552;P55055;P11473;P17096;Q96RL1;Q71SY5;O75376;Q15466;Q14686}

9756 Pathogen[ P03383] interacts with 8 human  
partners:{P17096;O75376;Q96RL1;Q14686;P11473;Q15466;Q71SY5;P48552}

9757 Pathogen[ P03410] interacts with 8 human  
partners:{Q96RL1;Q14686;P17096;O75376;P11473;Q15466;P48552;Q71SY5}

9758 Pathogen[ P14075] interacts with 8 human  
partners:{Q14686;P17096;O75376;P11473;P48552;Q15466;Q71SY5;Q96RL1}

9759 Pathogen[ P0C206] interacts with 9 human  
partners:{Q15466;P55055;Q14686;O75376;Q71SY5;P17096;Q96RL1;P48552;P11473}

9760 Pathogen[ P03363] interacts with 8 human  
partners:{Q15466;Q71SY5;Q96RL1;O75376;Q14686;P11473;P48552;P17096}

9761 [Cluster 888]GO:0031014+F molecular\_function [name] troponin T binding [def]  
"Interacting selectively and non-covalently with troponin T, the tropomyosin-binding  
subunit of the troponin complex." [GOC

9762 Pathogen[ Q2Q067] interacts with 1 human partners:{P48788}

9763 Pathogen[ P0C214] interacts with 2 human partners:{P48788;P19429}

9764 Pathogen[ P03346] interacts with 2 human partners:{P63316;P48788}

9765 Pathogen[ Q85601] interacts with 1 human partners:{P48788}

9766 Pathogen[ P14079] interacts with 2 human partners:{P19429;P48788}

9767 Pathogen[ P03383] interacts with 1 human partners:{P48788}

9768 Pathogen[ P03410] interacts with 3 human partners:{P19429;P48788;P63316}

9769 Pathogen[ P14075] interacts with 1 human partners:{P48788}

9770 Pathogen[ P0C206] interacts with 2 human partners:{P19429;P48788}

9771 Pathogen[ P03363] interacts with 2 human partners:{P48788;P19429}

9772 [Cluster 889]GO:0032403+F molecular\_function [name] protein complex binding [def]  
"Interacting selectively and non-covalently with any protein complex (a complex of two or  
more proteins that may include other nonprotein molecules)." [GOC

9773 Pathogen[ Q2Q067] interacts with 26 human  
partners:{Q9Y4R8;Q9Y3C7;P10827;Q13033;Q86UA6;P01106;P50502;Q6NXT1;Q9BSB4;Q96ST3;P2195  
3;P63010;Q86UL8;Q9NRL3;Q13127;Q02410;P50613;Q9H160;Q03468;P61244;Q13216;Q15466;P12757  
;O75150;P49715;P33076}

9774 Pathogen[ P0C214] interacts with 27 human  
partners:{P61244;P22695;P12757;Q9BSB4;P50613;P33076;P12694;Q13033;Q13216;Q9Y3C7;P6301  
0;P21953;Q9Y4R8;Q9H160;Q13127;Q6NXT1;Q9P0J1;Q02410;Q96ST3;O75150;Q86UA6;P01106;Q03468  
;Q15466;P18846;P50502;Q9NRL3}

9775 Pathogen[ P03346] interacts with 31 human  
partners:{Q9NPC8;Q96ST3;P10827;Q96A65;O75150;P12757;P63010;P50502;Q15466;O43815;P3307  
6;Q9BSB4;P49715;Q02410;P01106;Q9Y3C7;Q13033;Q86UL8;Q03468;Q9Y4R8;Q86UA6;Q13216;P61244  
;P14317;O43933;Q9Y2J0;Q6NXT1;Q9H160;Q9NRL3;P18846;Q13127}

9776 Pathogen[ Q85601] interacts with 31 human  
partners:{P01106;Q9NRL3;Q9Y4R8;P33076;Q13127;Q96A65;Q9BSB4;Q15466;Q13216;Q86UA6;Q86UL  
8;P12757;O43815;Q6NXT1;P18846;Q9Y3C7;P21953;Q03468;Q13033;P50613;P10827;O75150;P61244  
;P49715;P14317;O43933;Q02410;P63010;P50502;Q9H160;Q96ST3}

9777 Pathogen[ P14079] interacts with 31 human  
partners:{P22695;P33076;P21953;Q96ST3;Q13033;Q02410;P24588;O43815;Q9Y3C7;Q13216;P0791  
9;P10827;Q9BSB4;Q9NRL3;P50613;Q6NXT1;P49715;Q86UA6;Q7Z412;P63010;P01106;Q86UL8;Q96A65  
;Q9Y4R8;Q03468;P12757;Q15466;Q13127;P61244;P50502;Q9H160}

9778 Pathogen[ P03383] interacts with 22 human  
partners:{Q86UA6;P33076;Q13216;P50502;P01106;P18846;Q9Y4R8;Q9H160;P50613;Q9Y3C7;P6301  
0;Q03468;Q15466;Q9NRL3;Q02410;P12757;Q96ST3;Q13033;O75150;P61244;Q13127;Q9BSB4}

9779 Pathogen[ P03410] interacts with 33 human  
partners:{Q9NRL3;P50502;Q9Y2J0;Q9Y4R8;P01106;Q9BSB4;Q6NXT1;Q86UA6;P12694;P07919;P2195

3;Q03468;Q9Y3C7;Q96ST3;P50613;P18846;Q02410;P61244;Q13127;P22695;O75150;Q96A65;Q13033  
;Q9H160;Q15049;Q15466;P12757;Q13216;P63010;O43815;Q86UL8;P33076;P24588}

9780 Pathogen[ P14075] interacts with 22 human  
partners:{Q96ST3;Q02410;Q9BSB4;P61244;P50613;P33076;Q13216;P01106;P12757;Q03468;Q9Y3C  
7;Q9NRL3;P50502;O75150;P63010;Q9Y4R8;Q13127;Q15466;Q86UA6;Q9H160;Q13033;P18846}

9781 Pathogen[ P0C206] interacts with 32 human  
partners:{Q6NXT1;P63010;Q9BSB4;O43933;Q15466;Q96ST3;Q13127;O43815;Q9Y2J0;P14317;Q0346  
8;Q9Y3C7;P21953;P49715;P18846;Q96A65;P33076;Q9H160;Q13216;P22695;Q9NRL3;P50502;P50613  
;P12757;Q9Y4R8;P61244;P01106;Q86UL8;Q13033;O75150;P10827;Q02410}

9782 Pathogen[ P03363] interacts with 28 human  
partners:{Q9H160;O43933;Q15466;P50502;Q9Y4R8;P12757;Q96A65;Q6NXT1;Q13033;P01106;O7515  
0;P61244;Q9BSB4;Q13127;Q86UA6;P18846;Q02410;Q96ST3;O43815;P63010;P14317;Q9NRL3;P33076  
;Q03468;Q86UL8;Q13216;Q9NPC8;Q9Y3C7}

9783

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1 [Section 9] cellular compartments where the HTLV viruses may interact with the host
2
3
4 [Cluster 1]GO:000120+C cellular_component [name] RNA polymerase I transcription factor
complex [def] "A transcription factor complex that acts at promoters of genes transcribed
by RNA polymerase I." [GOC
5 Pathogen[ Q2Q067] interacts with 2 human partners:{Q15573;O15446}
6 Pathogen[ P0C214] interacts with 2 human partners:{Q15573;O15446}
7 Pathogen[ P03346] interacts with 2 human partners:{Q15573;O15446}
8 Pathogen[ Q85601] interacts with 2 human partners:{Q15573;O15446}
9 Pathogen[ P14079] interacts with 2 human partners:{Q15573;O15446}
10 Pathogen[ P03383] interacts with 2 human partners:{Q15573;O15446}
11 Pathogen[ P03410] interacts with 2 human partners:{Q15573;O15446}
12 Pathogen[ P14075] interacts with 2 human partners:{Q15573;O15446}
13 Pathogen[ P0C206] interacts with 2 human partners:{O15446;Q15573}
14 Pathogen[ P03363] interacts with 2 human partners:{O15446;Q15573}
15 [Cluster 2]GO:0032040+C cellular_component [name] small-subunit processome [def] "A
large ribonucleoprotein complex that is an early preribosomal complex. In S. cerevisiae,
it has a size of 80S and consists of the 35S pre-rRNA, early-associating ribosomal
proteins most of which are part of the small ribosomal subunit, the U3 snoRNA and
associated proteins." [PMID
16 Pathogen[ Q2Q067] interacts with 6 human
partners:{Q9Y3A2;Q5TAP6;P62081;Q9BVJ6;P78316;O75691}
17 Pathogen[ P0C214] interacts with 6 human
partners:{Q9BVJ6;O75691;P62081;P78316;Q5TAP6;Q9Y3A2}
18 Pathogen[ P03346] interacts with 8 human
partners:{Q9BVJ6;O75691;Q9Y3A2;Q5TAP6;P78316;P62081;Q12788;Q8NI36}
19 Pathogen[ Q85601] interacts with 5 human
partners:{P62081;O75691;Q9BVJ6;Q9Y3A2;P78316}
20 Pathogen[ P14079] interacts with 6 human
partners:{O75691;Q9Y3A2;Q5TAP6;Q9BVJ6;P78316;P62081}
21 Pathogen[ P03383] interacts with 6 human
partners:{Q9BVJ6;Q5TAP6;O75691;Q9Y3A2;P62081;P78316}
22 Pathogen[ P03410] interacts with 7 human
partners:{P78316;Q5TAP6;P62081;Q9BVJ6;Q9Y3A2;O75691;Q12788}
23 Pathogen[ P14075] interacts with 6 human
partners:{P62081;P78316;O75691;Q9BVJ6;Q9Y3A2;Q5TAP6}
24 Pathogen[ P0C206] interacts with 6 human
partners:{P62081;P78316;O75691;Q9Y3A2;Q5TAP6;Q9BVJ6}
25 Pathogen[ P03363] interacts with 6 human
partners:{Q9BVJ6;P62081;O75691;Q5TAP6;Q9Y3A2;P78316}
26 [Cluster 3]GO:0005721+C cellular_component [name] centromeric heterochromatin [def] "A
region of heterochromatin located near the centromere of a chromosome." [PMID
27 Pathogen[ Q2Q067] interacts with 4 human partners:{Q03188;Q9NQS7;P26358;P83916}
28 Pathogen[ P0C214] interacts with 4 human partners:{P83916;Q03188;P26358;Q9NQS7}
29 Pathogen[ P03346] interacts with 5 human
partners:{Q9NRZ9;P26358;Q9NQS7;Q03188;P83916}
30 Pathogen[ Q85601] interacts with 4 human partners:{P83916;Q03188;Q9NQS7;P26358}
31 Pathogen[ P14079] interacts with 4 human partners:{Q03188;P26358;Q9NQS7;P83916}
32 Pathogen[ P03383] interacts with 4 human partners:{Q9NQS7;Q03188;P83916;P26358}
33 Pathogen[ P03410] interacts with 4 human partners:{Q03188;P26358;P83916;Q9NQS7}
34 Pathogen[ P14075] interacts with 4 human partners:{Q9NQS7;P26358;P83916;Q03188}
35 Pathogen[ P0C206] interacts with 7 human
partners:{P26358;P83916;Q13422;Q9NRZ9;Q9NQS7;Q03188;Q9UIG0}
36 Pathogen[ P03363] interacts with 4 human partners:{P83916;Q9NQS7;P26358;Q03188}
37 [Cluster 4]GO:0005839+C cellular_component [name] proteasome core complex [def] "A
multisubunit barrel shaped endoprotease complex, which is the core of the proteasome
complex." [GOC
38 Pathogen[ Q2Q067] interacts with 20 human
partners:{P40306;P28072;A5LHX3;P25787;P28065;O14818;P60900;P28062;P25788;Q92530;P2578
6;P28074;P25789;P20618;P28070;P28066;Q99436;Q8TAA3;P49721;P49720}
39 Pathogen[ P0C214] interacts with 20 human
partners:{P25789;P28062;A5LHX3;P28065;O14818;P40306;P28066;P49720;P28074;P25788;P2578
6;P28072;Q8TAA3;Q99436;P25787;P60900;Q92530;P28070;P20618;P49721}
40 Pathogen[ P03346] interacts with 20 human
partners:{P25787;P28070;P25789;P28072;P25788;P28074;P49721;O14818;Q99436;A5LHX3;P2806
2;P20618;P49720;P28065;P60900;P25786;P28066;Q8TAA3;Q92530;P40306}
41 Pathogen[ Q85601] interacts with 20 human
partners:{P28066;P60900;P25787;P25788;P25789;P20618;P40306;P49720;P28062;P49721;P2578
6;P28072;P28065;Q99436;P28070;Q8TAA3;P28074;Q92530;A5LHX3;O14818}
42 Pathogen[ P14079] interacts with 17 human
partners:{P28065;Q99436;P40306;P28074;P49720;P25787;A5LHX3;P20618;Q8TAA3;P28062;P6090
0;O14818;P49721;Q92530;P25788;P28066;P28072}
43 Pathogen[ P03383] interacts with 19 human
partners:{P25789;P60900;P40306;P49721;P20618;P25786;P28072;P28065;P28066;P28074;Q9253
0;P49720;Q8TAA3;P28062;O14818;Q99436;P28070;P25787;P25788}

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44 Pathogen[ P03410] interacts with 19 human  
partners:{P28070;P25786;P60900;Q8TAA3;P49721;A5LHX3;Q99436;P40306;P25787;P28062;O1481  
8;P25789;P49720;P28072;P25788;P28066;P28065;P20618;P28074}

45 Pathogen[ P14075] interacts with 19 human  
partners:{P25788;P28066;Q8TAA3;P60900;P49720;P28070;P49721;Q92530;P28062;P28074;P2806  
5;P25786;O14818;P28072;P25787;P20618;P40306;Q99436;P25789}

46 Pathogen[ P0C206] interacts with 20 human  
partners:{Q99436;P28062;P40306;P28065;P25786;P25788;P25787;P49720;P60900;A5LHX3;P2578  
9;P20618;Q8TAA3;P28070;P28066;O14818;P28072;P28074;Q92530;P49721}

47 Pathogen[ P03363] interacts with 1 human partners:{Q92530}

48 [Cluster 5]GO:0005655+C cellular\_component [name] nucleolar ribonuclease P complex [def]  
"A ribonuclease P complex located in the nucleolus of a eukaryotic cell, where it  
catalyzes the 5' endonucleolytic cleavage of precursor tRNAs to yield mature tRNAs.  
Eukaryotic nucleolar ribonuclease P complexes generally contain a single RNA molecule  
that is necessary but not sufficient for catalysis, and several protein molecules." [GOC

49 Pathogen[ Q2Q067] interacts with 7 human  
partners:{P78346;O75818;Q99575;O75817;P78345;Q969H6;O95707}

50 Pathogen[ P0C214] interacts with 7 human  
partners:{O75818;Q969H6;P78345;O95707;Q99575;O75817;P78346}

51 Pathogen[ P03346] interacts with 7 human  
partners:{P78346;Q969H6;O95707;O75818;Q99575;P78345}

52 Pathogen[ Q85601] interacts with 7 human  
partners:{P78346;Q99575;Q969H6;O95707;O75817;O75818;P78345}

53 Pathogen[ P14079] interacts with 6 human  
partners:{P78346;O75817;O95707;Q99575;O75818;P78345}

54 Pathogen[ P03383] interacts with 7 human  
partners:{P78345;Q969H6;Q99575;O95707;O75817;O75818;P78346}

55 Pathogen[ P03410] interacts with 7 human  
partners:{P78346;P78345;Q99575;O95707;O75818;Q969H6;O75817}

56 Pathogen[ P14075] interacts with 7 human  
partners:{O75817;P78345;P78346;O95707;O75818;Q99575;Q969H6}

57 Pathogen[ P0C206] interacts with 7 human  
partners:{O75818;Q969H6;O95707;O75817;P78345;Q99575;P78346}

58 Pathogen[ P03363] interacts with 7 human  
partners:{Q99575;O75817;O75818;O95707;Q969H6;P78345;P78346}

59 [Cluster 6]GO:0072669+C cellular\_component [name] tRNA-splicing ligase complex [def] "A  
protein complex that catalyzes the ligation of cleaved pre-tRNAs by directly joining  
spliced tRNA halves to mature-sized tRNAs by incorporating the precursor-derived splice  
junction phosphate into the mature tRNA as a canonical 3',5'-phosphodiester." [GOC

60 Pathogen[ Q2Q067] interacts with 2 human partners:{Q92499;Q9Y224}

61 Pathogen[ P0C214] interacts with 2 human partners:{Q9Y224;Q92499}

62 Pathogen[ P03346] interacts with 3 human partners:{Q92499;Q9Y224;Q9BVC5}

63 Pathogen[ Q85601] interacts with 2 human partners:{Q92499;Q9Y224}

64 Pathogen[ P14079] interacts with 4 human partners:{Q9BVC5;Q52LJ0;Q92499;Q9Y224}

65 Pathogen[ P03383] interacts with 3 human partners:{Q9BVC5;Q92499;Q9Y224}

66 Pathogen[ P03410] interacts with 4 human partners:{Q9BVC5;Q52LJ0;Q9Y224;Q92499}

67 Pathogen[ P14075] interacts with 4 human partners:{Q52LJ0;Q9BVC5;Q9Y224;Q92499}

68 Pathogen[ P0C206] interacts with 3 human partners:{Q9Y224;Q9BVC5;Q92499}

69 Pathogen[ P03363] interacts with 3 human partners:{Q92499;Q9Y224;Q9BVC5}

70 [Cluster 7]GO:0016459+C cellular\_component [name] myosin complex [def] "A protein  
complex, formed of one or more myosin heavy chains plus associated light chains and other  
proteins, that functions as a molecular motor\_ uses the energy of ATP hydrolysis to move  
actin filaments or to move vesicles or other cargo on fixed actin filaments\_ has  
magnesium-ATPase activity and binds actin. Myosin classes are distinguished based on  
sequence features of the motor, or head, domain, but also have distinct tail regions that  
are believed to bind specific cargoes." [GOC

71 Pathogen[ Q2Q067] interacts with 7 human  
partners:{Q9P2M7;Q9UKX2;P60660;Q96LC9;P12883;P35579;Q96FJ2}

72 Pathogen[ P0C214] interacts with 20 human  
partners:{A7E2Y1;Q9UKX2;O00159;Q9Y2K3;Q96LC9;Q9UM54;P11055;P14649;P60660;P35580;P1353  
5;P12882;P12883;Q9P2M7;Q96FJ2;Q7Z406;P13533;Q92614;Q9Y623;P35749}

73 Pathogen[ P03346] interacts with 12 human  
partners:{Q96FJ2;P60660;Q96JP2;Q96LC9;P35579;Q92614;Q4L180;P14649;Q9ULV0;Q9UKX2;P1091  
6;Q9P2M7}

74 Pathogen[ Q85601] interacts with 21 human  
partners:{Q96LC9;Q92614;Q96JP2;P13533;P35579;P14649;Q9UKX2;Q9Y2K3;O00159;P12882;Q4L18  
0;Q7Z406;P11055;P35749;P12883;P35580;Q9UM54;P13535;P60660;Q9Y623;Q9P2M7}

75 Pathogen[ P14079] interacts with 11 human  
partners:{P35579;Q92614;Q96FJ2;P10916;Q9UKX2;Q9UM54;P14649;P60660;P12883;Q9P2M7;Q96LC  
9}

76 Pathogen[ P03383] interacts with 7 human  
partners:{Q96LC9;Q96FJ2;Q9UKX2;Q9P2M7;P12883;P35580;P35579}

77 Pathogen[ P03410] interacts with 19 human  
partners:{Q9UKX2;P10916;Q4L180;Q92614;Q9ULV0;Q0VF96;Q96LC9;O00159;P35579;Q9UM54;P1288  
2;P12883;P35580;P14649;P13533;Q9P2M7;Q96JP2;P60660;P13535}

78 Pathogen[ P14075] interacts with 5 human

79 partners:{Q9UKX2;Q96LC9;Q96FJ2;P35579;Q9P2M7}  
Pathogen[ P0C206] interacts with 19 human  
partners:{Q4L180;Q9UM54;P13533;Q9Y623;P60660;P11055;Q96LC9;P14649;P12883;O00159;Q96JP  
2;P12882;P35749;P35579;Q92614;Q9UKX2;Q9P2M7;P35580;P13535}

80 Pathogen[ P03363] interacts with 11 human  
partners:{P14649;P35579;Q96LC9;Q9UKX2;Q96JP2;Q4L180;Q92614;P60660;Q9P2M7;Q96FJ2;P1091  
6}

81 [Cluster 8]GO:0005929+C cellular\_component [name] cilium [def] "A specialized  
eukaryotic organelle that consists of a filiform extrusion of the cell surface. Each  
cilium is bounded by an extrusion of the cytoplasmic membrane, and contains a regular  
longitudinal array of microtubules, anchored basally in a centriole." [GOC

82 Pathogen[ Q2Q067] interacts with 25 human  
partners:{Q8WW24;O75161;Q5TD94;P08151;Q9H5P4;Q5BJF6;Q8IY31;Q9BYV8;Q9NXB0;O15078;Q86VQ  
0;O75665;Q96NB1;Q717R9;P41208;A6NIH7;Q9NWB7;Q3SYG4;Q9BPU9;Q96M29;Q9UMX1;Q6Q759;Q96GV9  
;A8MTZ0;Q9BV73}

83 Pathogen[ P0C214] interacts with 23 human  
partners:{Q9NWB7;O15078;O75161;Q8IY31;Q96GV9;Q9BYV8;Q8WW24;Q9H5P4;Q9NXB0;Q9BPU9;Q3SYG  
4;P41208;A8MTZ0;O75665;Q9BV73;A6NIH7;Q5BJF6;P08151;Q5TD94;Q96M29;Q9UMX1;Q96NB1;Q6Q759  
}

84 Pathogen[ P03346] interacts with 43 human  
partners:{Q86VQ0;Q9NQC8;Q9Y283;Q9H5P4;Q6ZW61;Q9BPU9;Q8IY31;Q96GV9;Q68CZ1;Q9UIF3;A8MTZ  
0;Q9H3S7;Q5TD94;Q9HBG6;Q96M29;Q96KN7;Q8TAM2;P41208;O75161;Q9NXB0;O75665;Q9NWB7;Q8N841  
;Q3SYG4;Q8N0X2;Q9Y4P9;Q5BJF6;Q8N157;Q9BYV8;P36405;Q717R9;A6NIH7;O15078;Q6Q759;Q8IWN7;  
O75386;Q9UMX1;Q8WW24;Q92834;Q96NB1;Q6EMB2;P08151;Q9BV73}

85 Pathogen[ Q85601] interacts with 29 human  
partners:{O75161;P08151;Q9H5P4;P36405;Q6Q759;A8MTZ0;Q9Y283;Q5TD94;Q9NWB7;O15078;Q9283  
4;Q5BJF6;O96015;Q9BXP9;Q8WW24;Q9NXB0;O75665;Q9BV73;Q96M29;Q86VQ0;Q9BYV8;Q3SYG4;Q9BPU9  
;A6NIH7;Q9UMX1;Q96GV9;Q8IY31;Q96NB1;P41208}

86 Pathogen[ P14079] interacts with 76 human  
partners:{P04083;Q9H1X1;Q8WYA0;Q9P0N5;Q9Y4P9;Q4G0U5;O75161;P08151;Q8N4P2;Q5JQC9;Q9NWB  
7;O95876;Q8IY31;Q9NPI0;A6NIH7;Q86WT1;Q8N0X2;Q8N157;Q68CZ1;Q96Q45;Q92834;Q8NFI9;Q9UMX1  
;Q717R9;Q9BXP9;Q6Q759;Q8N3I7;Q9BV73;P57679;Q96M29;Q86UK5;Q9Y4R7;Q8IWN7;Q9GZS0;Q5TD94;  
Q7RTU9;Q8IYW6;P56715;A6PVC2;P36405;O75952;A0AVF1;Q5BJF6;Q5H9T9;Q9UI46;Q8TAM2;Q8N841;Q  
9BPU9;Q8TCU4;Q9P2L0;Q8IW40;Q8WW24;Q9UFE4;Q969V4;P41208;Q9Y283;O15078;Q6EMB2;Q9UIF3;Q9  
P2K1;Q9NQC8;A6NGG8;Q9H5P4;O75665;Q6ZW61;Q3SYG4;O96015;Q86VQ0;O15259;A8MTZ0;Q9NXB0;Q9B  
YV8;Q6IQ19;Q96KN7;Q96NB1;Q96GV9}

87 Pathogen[ P03383] interacts with 23 human  
partners:{Q9NWB7;Q8IY31;P41208;Q9BV73;A8MTZ0;Q5TD94;Q96M29;Q96NB1;Q9NXB0;Q86VQ0;O1507  
8;Q8WW24;Q9BYV8;Q5BJF6;Q3SYG4;Q717R9;Q6Q759;O75161;A6NIH7;Q9Y4P9;O75665;Q9UMX1;Q96GV9  
}

88 Pathogen[ P03410] interacts with 75 human  
partners:{O75665;Q717R9;Q9Y4R7;Q86VQ0;Q6Q759;Q96NB1;Q9H5P4;Q8NFI9;Q9Y4P9;Q9BXP9;Q9UI4  
6;O15259;Q3SYG4;Q6ZW61;Q8N0X2;Q96RY7;Q96Q45;Q8TAM2;Q96KN7;Q5JQC9;A0AVF1;P36405;Q5TD94  
;O75161;Q8TCU4;Q9UIF3;Q9Y283;Q8TCX1;Q9H1X1;Q9BYV8;Q9UFE4;A8MTZ0;A6NIH7;O75952;Q6IQ19;  
Q9NPI0;Q9NPE6;Q8N4P2;Q9BPU9;Q8IY31;A6NGG8;Q9NWB7;Q7RTU9;Q8N157;Q9P0N5;Q8WYA0;O15078;Q  
8N3I7;Q9P2K1;Q92834;O95876;Q5BJF6;Q4G0U5;Q8IW40;Q9HBG6;Q96GV9;Q9NXB0;Q8IYW6;Q5H9T9;Q9  
NQC8;Q9P2L0;Q8N841;Q68CZ1;A6PVC2;Q8IWN7;Q9GZS0;P41208;Q969V4;Q9UMX1;P56715;Q96M29;Q9B  
V73;Q6EMB2;O96015;Q86UK5}

89 Pathogen[ P14075] interacts with 25 human  
partners:{Q3SYG4;Q9BYV8;Q6Q759;Q6ZW61;Q5TD94;Q96GV9;Q8IY31;Q86VQ0;Q9NXB0;O15078;Q5BJF  
6;O75161;Q6IQ19;Q96NB1;Q9BV73;Q9Y4P9;Q9BPU9;Q9NWB7;P41208;Q717R9;A6NIH7;O75665;Q96M29  
;A8MTZ0;Q9UMX1}

90 Pathogen[ P0C206] interacts with 56 human  
partners:{Q9BPU9;Q9NQC8;O75952;Q6ZW61;P56715;Q5BJF6;Q5JQC9;Q5TD94;Q3SYG4;Q8TAM2;Q9UMX  
1;O75161;Q8IY31;Q8TCU4;Q9P2K1;Q9H5P4;Q9UIF3;Q86VQ0;Q96GV9;Q8WYA0;Q8N3I7;Q9Y283;Q96KN7  
;Q717R9;Q9Y4P9;Q5H9T9;Q9UFE4;Q8IWN7;Q9NWB7;Q6IQ19;O15078;Q9H1X1;Q8N841;Q8N157;Q9BYV8;  
Q9BV73;A6NGG8;O75665;P36405;A6NIH7;Q9BXP9;Q8NFI9;P41208;Q96M29;Q16181;P08151;Q6Q759;Q  
9NXB0;Q96NB1;O95876;A8MTZ0;Q92834;Q6EMB2;O96015;Q8IW40;Q8WW24}

91 Pathogen[ P03363] interacts with 53 human  
partners:{Q5BJF6;O75161;Q8N0X2;Q9H3S7;P56715;Q6EMB2;Q86VQ0;Q8TAM2;Q9BYV8;Q9UMX1;P0815  
1;O15078;Q9GZS0;Q969V4;Q9P2K1;Q9H1X1;Q96M29;Q9Y4P9;Q9H5P4;Q5TD94;P41208;Q9NWB7;A8MTZ0  
;Q8IYM1;Q717R9;Q9BXP9;Q8N157;Q3SYG4;Q8IY31;Q6IQ19;Q9BPU9;Q9HBG6;Q8N841;Q9Y283;Q96NB1;  
Q6ZW61;Q8IW40;A6NIH7;Q9UIF3;Q96GV9;Q92834;Q8IWN7;O75386;O15259;Q9UI46;Q8NFI9;Q9NXB0;Q  
6Q759;Q9BV73;Q9NQC8;Q8WW24;Q96KN7;O75665}

92 [Cluster 9]GO:0016593+C cellular\_component [name] Cdc73/Paf1 complex [def] "A  
multiprotein complex that associates with RNA polymerase II and general RNA polymerase II  
transcription factor complexes and may be involved in both transcriptional initiation and  
elongation. In *Saccharomyces* the complex contains Paf1p, Cdc73p, Ctr9p, Rtf1p, and  
Leop1." [PMID

93 Pathogen[ Q2Q067] interacts with 6 human  
partners:{Q8WVC0;Q6PD62;Q6P1J9;Q9GZS3;Q92541;Q8N7H5}

94 Pathogen[ P0C214] interacts with 6 human  
partners:{Q92541;Q6P1J9;Q8N7H5;Q8WVC0;Q6PD62;Q9GZS3}

95 Pathogen[ P03346] interacts with 6 human  
partners:{Q6PD62;Q8WVC0;Q92541;Q9GZS3;Q6P1J9;Q8N7H5}

96 Pathogen[ Q85601] interacts with 6 human

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97     partners:{Q6PD62;Q8WVC0;Q6P1J9;Q9GZS3;Q92541;Q8N7H5}
    Pathogen[ P14079] interacts with 6 human
98     partners:{Q92541;Q9GZS3;Q6PD62;Q8WVC0;Q6P1J9;Q8N7H5}
    Pathogen[ P03383] interacts with 6 human
99     partners:{Q6P1J9;Q6PD62;Q8WVC0;Q92541;Q9GZS3;Q8N7H5}
    Pathogen[ P03410] interacts with 6 human
100    partners:{Q8WVC0;Q6PD62;Q92541;Q9GZS3;Q8N7H5;Q6P1J9}
    Pathogen[ P14075] interacts with 6 human
101    partners:{Q8WVC0;Q8N7H5;Q6P1J9;Q92541;Q6PD62;Q9GZS3}
    Pathogen[ P0C206] interacts with 6 human
102    partners:{Q6PD62;Q92541;Q8N7H5;Q9GZS3;Q8WVC0;Q6P1J9}
    Pathogen[ P03363] interacts with 6 human
103    partners:{Q9GZS3;Q8WVC0;Q6P1J9;Q92541;Q8N7H5;Q6PD62}
[Cluster 10]GO:0005845+C    cellular_component [name] mRNA cap binding complex [def]
"Any protein complex that binds to an mRNA cap at any time in the lifetime of the mRNA."
[GOC
104    Pathogen[ Q2Q067] interacts with 8 human
    partners:{O43148;Q06787;Q9UKV8;Q09161;O60573;P52298;P06730;Q9BTL3}
105    Pathogen[ P0C214] interacts with 10 human
    partners:{Q09161;Q06787;Q8N5X7;A6NMX2;O43148;P52298;Q9UKV8;Q9BTL3;P06730;O60573}
106    Pathogen[ P03346] interacts with 11 human
    partners:{Q09161;P06730;Q06787;Q9BTL3;Q8N5X7;O60573;Q96J94;P52298;O43148;Q9UKV8;A6NMX
2}
107    Pathogen[ Q85601] interacts with 9 human
    partners:{O43148;P06730;Q8N5X7;Q06787;Q09161;O60573;Q9UKV8;Q9BTL3;P52298}
108    Pathogen[ P14079] interacts with 10 human
    partners:{A6NMX2;Q9UKV8;P06730;P52298;O60573;O43148;Q8N5X7;Q9BTL3;Q06787;Q09161}
109    Pathogen[ P03383] interacts with 8 human
    partners:{O43148;Q06787;O60573;Q09161;P06730;Q9UKV8;P52298;Q9BTL3}
110    Pathogen[ P03410] interacts with 10 human
    partners:{Q9UKV8;Q9BTL3;P06730;P52298;O60573;Q8N5X7;Q09161;O43148;Q06787;A6NMX2}
111    Pathogen[ P14075] interacts with 8 human
    partners:{Q09161;P06730;O60573;Q06787;Q9UKV8;Q9BTL3;O43148;P52298}
112    Pathogen[ P0C206] interacts with 10 human
    partners:{P52298;Q09161;Q06787;Q9UKV8;Q9BTL3;P06730;Q8N5X7;A6NMX2;O60573;O43148}
113    Pathogen[ P03363] interacts with 12 human
    partners:{Q06787;Q9UKV8;Q7L576;Q9BTL3;Q8N5X7;A6NMX2;P52298;O43148;Q96J94;O60573;P0673
0;Q09161}
114 [Cluster 11]GO:0042585+C    cellular_component [name] germinal vesicle [def] "The
enlarged, fluid filled nucleus of a primary oocyte, the development of which is suspended
in prophase I of the first meiotic division between embryhood and sexual maturity." [GOC
115    Pathogen[ Q2Q067] interacts with 1 human partners:{P29966}
116    Pathogen[ P0C214] interacts with 1 human partners:{P29966}
117    Pathogen[ P03346] interacts with 1 human partners:{P29966}
118    Pathogen[ Q85601] interacts with 1 human partners:{P29966}
119    Pathogen[ P14079] interacts with 1 human partners:{P29966}
120    Pathogen[ P03383] interacts with 1 human partners:{P29966}
121    Pathogen[ P03410] interacts with 1 human partners:{P29966}
122    Pathogen[ P14075] interacts with 1 human partners:{P29966}
123    Pathogen[ P0C206] interacts with 1 human partners:{P29966}
124    Pathogen[ P03363] interacts with 1 human partners:{P29966}
125 [Cluster 12]GO:0070461+C    cellular_component [name] SAGA-type complex [def] "A
histone acetyltransferase complex that acetylates nucleosomal H3 and H2B and is required
for the expression of a subset of Pol II-transcribed genes. The budding yeast complex
includes the acetyltransferase Gcn5p, several proteins of the Spt and Ada families, and
several TBP-associate proteins (TAFs)_ analogous complexes in other species have
analogous compositions, and usually contain homologs of the yeast proteins." [GOC
126    Pathogen[ Q2Q067] interacts with 5 human
    partners:{Q8NEM7;P51610;Q86TJ2;Q96ES7;Q96BN2}
127    Pathogen[ P0C214] interacts with 4 human partners:{P51610;Q96BN2;Q86TJ2;Q96ES7}
128    Pathogen[ P03346] interacts with 5 human
    partners:{Q96ES7;P51610;Q96BN2;Q8NEM7;Q86TJ2}
129    Pathogen[ Q85601] interacts with 4 human partners:{Q96ES7;P51610;Q96BN2;Q86TJ2}
130    Pathogen[ P14079] interacts with 5 human
    partners:{Q8NEM7;Q96BN2;P51610;Q96ES7;Q86TJ2}
131    Pathogen[ P03383] interacts with 3 human partners:{Q96ES7;Q96BN2;P51610}
132    Pathogen[ P03410] interacts with 5 human
    partners:{P51610;Q86TJ2;Q96ES7;Q96BN2;Q8NEM7}
133    Pathogen[ P14075] interacts with 4 human partners:{P51610;Q96BN2;Q8NEM7;Q96ES7}
134    Pathogen[ P0C206] interacts with 4 human partners:{Q86TJ2;P51610;Q96ES7;Q96BN2}
135    Pathogen[ P03363] interacts with 5 human
    partners:{Q8NEM7;Q96BN2;Q96ES7;Q86TJ2;P51610}
136 [Cluster 13]GO:0034704+C    cellular_component [name] calcium channel complex [def] "An
ion channel complex through which calcium ions pass." [GOC
137    Pathogen[ Q2Q067] interacts with 3 human partners:{Q86VW0;Q15257;Q13023}
138    Pathogen[ P0C214] interacts with 3 human partners:{Q13023;Q86VW0;Q15257}

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139 Pathogen[ P03346] interacts with 3 human partners:{Q15257;Q13023;Q86VW0}  
140 Pathogen[ Q85601] interacts with 3 human partners:{Q13023;Q15257;Q86VW0}  
141 Pathogen[ P14079] interacts with 2 human partners:{Q13023;Q86VW0}  
142 Pathogen[ P03383] interacts with 2 human partners:{Q15257;Q13023}  
143 Pathogen[ P03410] interacts with 3 human partners:{Q15257;Q13023;Q86VW0}  
144 Pathogen[ P14075] interacts with 2 human partners:{Q15257;Q13023}  
145 Pathogen[ P0C206] interacts with 3 human partners:{Q13023;Q86VW0;Q15257}  
146 Pathogen[ P03363] interacts with 3 human partners:{Q13023;Q15257;Q86VW0}  
147 [Cluster 14]GO:0005671+C cellular\_component [name] Ada2/Gcn5/Ada3 transcription  
activator complex [def] "A multiprotein complex that possesses histone  
acetyltransferase and is involved in regulation of transcription. The budding yeast  
complex includes Gcn5p, two proteins of the Ada family, and two TBP-associate proteins  
(TAFs)\_ analogous complexes in other species have analogous compositions, and usually  
contain homologs of the yeast proteins." [PMID  
148 Pathogen[ Q2Q067] interacts with 12 human  
partners:{Q9NRF9;P51610;Q9H8E8;Q92831;Q9ULM3;O75528;Q01658;Q96ES7;Q92830;Q14157;Q9NS7  
3;O43318}  
149 Pathogen[ P0C214] interacts with 12 human  
partners:{P51610;O75528;O43318;Q14157;Q9NS73;Q9NRF9;Q92831;Q01658;Q92830;Q96ES7;Q9ULM  
3;Q9H8E8}  
150 Pathogen[ P03346] interacts with 13 human  
partners:{Q96ES7;P51610;Q14157;Q9ULM3;Q9H8E8;Q92831;Q9NR33;Q9NRF9;Q92830;O75528;Q9NS7  
3;Q01658;O43318}  
151 Pathogen[ Q85601] interacts with 12 human  
partners:{O75528;Q96ES7;Q14157;Q92831;P51610;Q9NRF9;Q9NS73;Q92830;Q9H8E8;Q9ULM3;Q0165  
8;O43318}  
152 Pathogen[ P14079] interacts with 11 human  
partners:{O75528;Q92830;Q14157;Q9H8E8;Q9ULM3;P51610;Q9NRF9;Q96ES7;Q01658;Q9NR33;Q9NS7  
3}  
153 Pathogen[ P03383] interacts with 11 human  
partners:{Q92831;Q9ULM3;Q96ES7;O75528;Q9NS73;O43318;P51610;Q9H8E8;Q92830;Q01658;Q1415  
7}  
154 Pathogen[ P03410] interacts with 13 human  
partners:{Q92830;Q92831;Q14157;P51610;Q9NS73;O75528;Q9ULM3;Q96ES7;O43318;Q01658;Q9NRF  
9;Q9NR33;Q9H8E8}  
155 Pathogen[ P14075] interacts with 11 human  
partners:{Q92831;Q01658;P51610;Q14157;O75528;Q9H8E8;Q9ULM3;O43318;Q96ES7;Q92830;Q9NS7  
3}  
156 Pathogen[ P0C206] interacts with 12 human  
partners:{O75528;Q92830;Q9NRF9;Q9ULM3;Q9NR33;O43318;Q92831;P51610;Q01658;Q96ES7;Q1415  
7;Q9NS73}  
157 Pathogen[ P03363] interacts with 13 human  
partners:{Q9H8E8;Q92831;Q9NRF9;O43318;Q92830;Q14157;Q9NR33;Q96ES7;Q9ULM3;Q01658;Q9NS7  
3;O75528;P51610}  
158 [Cluster 15]GO:0005773+C cellular\_component [name] vacuole [def] "A closed  
structure, found only in eukaryotic cells, that is completely surrounded by unit membrane  
and contains liquid material. Cells contain one or several vacuoles, that may have  
different functions from each other. Vacuoles have a diverse array of functions. They can  
act as a storage organelle for nutrients or waste products, as a degradative compartment,  
as a cost-effective way of increasing cell size, and as a homeostatic regulator  
controlling both turgor pressure and pH of the cytosol." [GOC  
159 Pathogen[ Q2Q067] interacts with 1 human partners:{P53804}  
160 Pathogen[ P0C214] interacts with 1 human partners:{P53804}  
161 Pathogen[ P03346] interacts with 1 human partners:{P53804}  
162 Pathogen[ Q85601] interacts with 1 human partners:{P53804}  
163 Pathogen[ P14079] interacts with 3 human partners:{P53804;Q9NPI0;Q96GC9}  
164 Pathogen[ P03383] interacts with 1 human partners:{P53804}  
165 Pathogen[ P03410] interacts with 3 human partners:{Q96GC9;Q9NPI0;P53804}  
166 Pathogen[ P14075] interacts with 1 human partners:{P53804}  
167 Pathogen[ P0C206] interacts with 1 human partners:{P53804}  
168 Pathogen[ P03363] interacts with 1 human partners:{P53804}  
169 [Cluster 16]GO:0000445+C cellular\_component [name] THO complex part of transcription  
export complex [def] "The THO complex when it is part of the TREX (TRanscription EXport)  
complex that is involved in coupling transcription to export of mRNAs to the cytoplasm.  
In *S. cerevisiae*, it is composed of four subunits  
170 Pathogen[ Q2Q067] interacts with 4 human partners:{Q96FV9;Q6I9Y2;Q13769;Q8NI27}  
171 Pathogen[ P0C214] interacts with 4 human partners:{Q96FV9;Q13769;Q8NI27;Q6I9Y2}  
172 Pathogen[ P03346] interacts with 4 human partners:{Q96FV9;Q13769;Q8NI27;Q6I9Y2}  
173 Pathogen[ Q85601] interacts with 4 human partners:{Q13769;Q96FV9;Q8NI27;Q6I9Y2}  
174 Pathogen[ P14079] interacts with 4 human partners:{Q8NI27;Q96FV9;Q13769;Q6I9Y2}  
175 Pathogen[ P03383] interacts with 4 human partners:{Q8NI27;Q13769;Q96FV9;Q6I9Y2}  
176 Pathogen[ P03410] interacts with 4 human partners:{Q8NI27;Q96FV9;Q13769;Q6I9Y2}  
177 Pathogen[ P14075] interacts with 4 human partners:{Q13769;Q8NI27;Q6I9Y2;Q96FV9}  
178 Pathogen[ P0C206] interacts with 4 human partners:{Q8NI27;Q13769;Q96FV9;Q6I9Y2}  
179 Pathogen[ P03363] interacts with 4 human partners:{Q13769;Q8NI27;Q96FV9;Q6I9Y2}  
180 [Cluster 17]GO:0005764+C cellular\_component [name] lysosome [def] "A small lytic

vacuole that has cell cycle-independent morphology and is found in most animal cells and that contains a variety of hydrolases, most of which have their maximal activities in the pH range 5-6. The contained enzymes display latency if properly isolated. About 40 different lysosomal hydrolases are known and lysosomes have a great variety of morphologies and functions." [GOC

181 Pathogen[ Q2Q067] interacts with 17 human  
partners:{Q9NQG7;Q9P2Y5;Q8TAF3;O75351;P05062;Q95999;Q5BJF2;Q9H267;Q99732;Q9Y2T2;Q9H0R1;O43504;Q9NUS5;Q96NA2;Q8WWR8;Q86VN1;O75674}

182 Pathogen[ P0C214] interacts with 16 human  
partners:{Q8WWR8;Q9NQG7;O75351;Q9Y2T2;Q9NUS5;Q96NA2;Q9H0R1;P05062;Q99732;Q95999;Q8TAF3;Q9P2Y5;O43504;O75674;Q86VN1;P16278}

183 Pathogen[ P03346] interacts with 26 human  
partners:{O95166;Q9NQG7;Q9P253;Q92622;Q9H0R1;Q96NA2;Q86VN1;Q8TAF3;Q5BJF2;O95999;P16278;Q96AX1;Q9NUS5;O43504;Q8N357;Q96S99;Q14596;O75351;Q8WWR8;P05062;Q70J99;O75674;Q9P2Y5;Q9H267;Q9Y2T2;Q99732}

184 Pathogen[ Q85601] interacts with 18 human  
partners:{Q9NQG7;Q96S99;Q9Y2T2;Q9P253;O95166;Q9P2Y5;Q9NUS5;Q14596;Q86VN1;P05062;Q9H267;O75351;Q8TAF3;O95999;Q96NA2;Q99732;Q9H0R1;O75674}

185 Pathogen[ P14079] interacts with 59 human  
partners:{Q9NQG7;O95166;O14773;Q96NA2;Q86VN1;P16278;Q3ZAQ7;Q9Y2Q5;O95999;P04066;P86790;Q02083;P20933;P54802;Q9Y2T2;P35475;Q92902;O75674;O60895;Q14596;P86791;Q96S99;O00115;Q5BJF2;Q96NT0;Q9H269;Q0VGL1;P06280;Q9H8M9;O75503;Q9NQG7;Q8N357;P54803;Q99732;Q86T03;Q6IAA8;Q96AX1;Q9NZ43;Q13510;Q9P253;Q8WWR8;Q9NUM4;Q8N682;P17050;Q8WWB7;Q9H0R1;Q8WZ79;Q86WC4;O43504;O75351;Q6UX65;Q9NUS5;Q8TAF3;Q92622;Q9P2Y5;Q9NUN5;Q9HAT2;P17405;Q9H267}

186 Pathogen[ P03383] interacts with 12 human  
partners:{Q9NQG7;Q8TAF3;Q9NUS5;Q9Y2T2;Q99732;Q5BJF2;O95999;O43504;Q9P2Y5;Q8WWR8;Q86VN1;Q96NA2}

187 Pathogen[ P03410] interacts with 52 human  
partners:{P54803;Q9NQG7;Q9Y2Q5;Q9H267;Q9NZ43;P04066;O43504;Q9P2Y5;Q96S99;Q86T03;O60896;Q02083;O60895;Q9NUS5;O75351;O75674;Q92902;Q70J99;P54802;Q99732;P16278;Q9HAT2;Q86VN1;Q9P253;P05062;P86791;Q14596;O75503;O95166;Q13510;Q9NUN5;O95999;Q8N357;Q86WC4;Q9Y2T2;Q9NQG7;Q6UX65;Q15049;Q8TAF3;Q8WWB7;Q9H0R1;P86790;Q6IAA8;Q0VGL1;P20933;O00115;Q96NA2;Q5BJF2;Q9H269;P17405;Q8WWR8;Q96AX1}

188 Pathogen[ P14075] interacts with 14 human  
partners:{Q9P2Y5;Q9NQG7;Q02083;Q9Y2T2;Q8WWR8;Q86VN1;Q96NA2;Q13510;Q8TAF3;Q99732;Q95999;O43504;Q9NUS5;Q5BJF2}

189 Pathogen[ P0C206] interacts with 30 human  
partners:{Q5BJF2;Q9NQG7;P05062;Q8TAF3;Q9P2Y5;Q9H0R1;O95999;Q86VN1;Q9Y2T2;Q14596;O43504;Q92622;Q8WWB7;Q8N357;Q96AX1;Q02083;Q96S99;Q9NQG7;Q8WWR8;P16278;Q9P253;Q96NA2;O75351;Q86T03;O75674;Q99732;O95166;Q9H267;Q86WC4;Q9NUS5}

190 Pathogen[ P03363] interacts with 20 human  
partners:{Q9NQG7;Q9Y2T2;Q9P2Y5;Q8TAF3;Q02083;Q9NUS5;Q96RU3;O43504;O75351;Q92622;Q9H0R1;Q86VN1;Q92902;Q9H267;Q99732;O75674;Q5BJF2;Q96NW4;Q96NA2;O95166}

191 [Cluster 18]GO:0030175+C cellular\_component [name] filopodium [def] "Thin, stiff protrusion extended by the leading edge of a motile cell such as a crawling fibroblast or amoeba, or an axonal growth cone\_ usually approximately 0.1 um wide, 5-10 um long, can be up to 50 um long in axon growth cones\_ contains a loose bundle of about 20 actin filaments oriented with their plus ends pointing outward." [GOC

192 Pathogen[ Q2Q067] interacts with 2 human partners:{Q8IZP0;P60953}

193 Pathogen[ P0C214] interacts with 4 human partners:{Q8IZP0;P60953;Q8NEJ9;Q16658}

194 Pathogen[ P03346] interacts with 6 human  
partners:{Q99828;Q8IZP0;P60953;P26038;Q8NEJ9;Q16658}

195 Pathogen[ Q85601] interacts with 2 human partners:{P60953;Q8IZP0}

196 Pathogen[ P14079] interacts with 12 human  
partners:{P09327;Q16658;O75781;P26038;Q8IZP0;Q9Y4F9;Q99828;Q14118;P50552;O95868;Q8NEJ9;P35241}

197 Pathogen[ P03383] interacts with 1 human partners:{P60953}

198 Pathogen[ P03410] interacts with 11 human  
partners:{O75781;Q16658;Q8NEJ9;Q99828;P50552;P26038;Q14118;Q8IZP0;P60953;O95868;P35241}

199 Pathogen[ P14075] interacts with 2 human partners:{P60953;Q8NEJ9}

200 Pathogen[ P0C206] interacts with 6 human  
partners:{Q99828;Q8NEJ9;Q16658;Q8IZP0;P60953;O95868}

201 Pathogen[ P03363] interacts with 5 human  
partners:{Q8IZP0;Q99828;Q16658;P60953;Q8NEJ9}

202 [Cluster 19]GO:0000780+C cellular\_component [name] condensed nuclear chromosome, centromeric region [def] "The region of a condensed chromosome in the nucleus that includes the centromere and associated proteins, including the kinetochore. In monocentric chromosomes, this region corresponds to a single area of the chromosome, whereas in holocentric chromosomes, it is evenly distributed along the chromosome." [GOC

203 Pathogen[ Q2Q067] interacts with 5 human  
partners:{Q5FBB7;P49450;Q03188;O75177;Q86Y97}

204 Pathogen[ P0C214] interacts with 5 human  
partners:{P49450;Q03188;Q86Y97;Q5FBB7;O75177}

205 Pathogen[ P03346] interacts with 5 human  
partners:{Q5FBB7;Q86Y97;Q03188;P49450;O75177}

206 Pathogen[ Q85601] interacts with 5 human partners:{Q03188;P49450;Q86Y97;Q5FBB7;O75177}

207 Pathogen[ P14079] interacts with 5 human partners:{Q03188;Q5FBB7;P49450;Q86Y97;O75177}

208 Pathogen[ P03383] interacts with 4 human partners:{Q03188;Q5FBB7;Q86Y97;O75177}

209 Pathogen[ P03410] interacts with 5 human partners:{Q03188;Q86Y97;O75177;P49450;Q5FBB7}

210 Pathogen[ P14075] interacts with 4 human partners:{Q5FBB7;Q86Y97;Q03188;O75177}

211 Pathogen[ P0C206] interacts with 5 human partners:{O75177;Q86Y97;P49450;Q5FBB7;Q03188}

212 Pathogen[ P03363] interacts with 5 human partners:{Q5FBB7;P49450;Q03188;Q86Y97;O75177}

213 [Cluster 20]GO:0032059+C cellular\_component [name] bleb [def] "A cell extension characterized by rapid formation, rounded shape, and scarcity of organelles within the protrusions." [PMID

214 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9Y613}

215 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y613}

216 Pathogen[ P03346] interacts with 1 human partners:{Q9Y613}

217 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y613}

218 Pathogen[ P14079] interacts with 1 human partners:{Q9Y613}

219 Pathogen[ P03383] interacts with 1 human partners:{Q9Y613}

220 Pathogen[ P03410] interacts with 2 human partners:{Q9Y613;Q9BRK5}

221 Pathogen[ P14075] interacts with 1 human partners:{Q9Y613}

222 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y613}

223 Pathogen[ P03363] interacts with 1 human partners:{Q9Y613}

224 [Cluster 21]GO:0032021+C cellular\_component [name] NELF complex [def] "A complex of five proteins, designated NELF-A, -B, -C, -D, and -E in human, that can physically associate with RNP polymerase II to induce transcriptional pausing." [PMID

225 Pathogen[ Q2Q067] interacts with 4 human partners:{P18615;Q8IXH7;Q9H3P2;Q8WX92}

226 Pathogen[ P0C214] interacts with 4 human partners:{Q8WX92;P18615;Q8IXH7;Q9H3P2}

227 Pathogen[ P03346] interacts with 4 human partners:{Q8IXH7;Q9H3P2;Q8WX92;P18615}

228 Pathogen[ Q85601] interacts with 4 human partners:{Q9H3P2;P18615;Q8WX92;Q8IXH7}

229 Pathogen[ P14079] interacts with 4 human partners:{Q8IXH7;Q9H3P2;P18615;Q8WX92}

230 Pathogen[ P03383] interacts with 4 human partners:{Q9H3P2;Q8IXH7;P18615;Q8WX92}

231 Pathogen[ P03410] interacts with 4 human partners:{P18615;Q9H3P2;Q8IXH7;Q8WX92}

232 Pathogen[ P14075] interacts with 4 human partners:{P18615;Q9H3P2;Q8IXH7;Q8WX92}

233 Pathogen[ P0C206] interacts with 4 human partners:{Q8IXH7;P18615;Q9H3P2;Q8WX92}

234 Pathogen[ P03363] interacts with 4 human partners:{Q8WX92;Q8IXH7;P18615;Q9H3P2}

235 [Cluster 22]GO:0045121+C cellular\_component [name] membrane raft [def] "Any of the small (10-200 nm), heterogeneous, highly dynamic, sterol- and sphingolipid-enriched membrane domains that compartmentalize cellular processes. Small rafts can sometimes be stabilized to form larger platforms through protein-protein and protein-lipid interactions." [PMID

236 Pathogen[ Q2Q067] interacts with 15 human partners:{P04156;Q9HAU4;P19367;Q12933;O95999;Q13158;Q14790;Q12959;O15162;P11532;Q99856;P25063;O14920;Q9BX66;A6NKF2}

237 Pathogen[ P0C214] interacts with 15 human partners:{Q9HAU4;Q13158;Q99856;Q9BX66;P11532;O15162;O95999;Q12933;P19367;P25063;Q12959;P04156;A6NKF2;O14920;Q14790}

238 Pathogen[ P03346] interacts with 17 human partners:{Q9HAU4;Q13158;Q8IWW1;P19367;Q99856;Q9BX66;O95999;A6NKF2;Q14790;P04156;P11532;P25063;O14920;Q9NP85;Q86Y82;Q12959;O15162}

239 Pathogen[ Q85601] interacts with 14 human partners:{Q9HAU4;Q13158;Q9BX66;Q14790;P11532;Q12933;O14920;A6NKF2;Q12959;P04156;O15162;O95999;Q99856;P19367}

240 Pathogen[ P14079] interacts with 23 human partners:{Q9BXL7;O15162;P11532;O95999;Q13021;P04156;Q99856;Q9NP85;Q9BY14;A6NKF2;Q14118;Q9HAU4;Q16586;Q14790;Q6IAA8;P25063;Q8IWW1;Q12933;Q13158;O43561;Q14699;Q9BX66;Q9GZY6}

241 Pathogen[ P03383] interacts with 11 human partners:{P04156;O15162;O14920;P19367;P25063;Q13158;Q12933;A6NKF2;P11532;O95999;Q99856}

242 Pathogen[ P03410] interacts with 24 human partners:{O14920;Q12959;O43561;P11532;Q8IWW1;Q9NP85;Q9BY14;Q13158;O15162;Q9GZY6;O95999;Q9BXL7;P25063;Q15049;P04156;Q12933;Q14118;Q6IAA8;Q14699;Q99856;P27105;A6NKF2;Q9BX66;Q13021}

243 Pathogen[ P14075] interacts with 12 human partners:{P11532;Q8IWW1;O15162;P04156;P19367;Q99856;O14920;Q12933;Q13158;A6NKF2;O95999;P25063}

244 Pathogen[ P0C206] interacts with 19 human partners:{O14920;P04156;Q9HAU4;O95999;Q8IWW1;Q13021;Q14699;Q13158;Q12933;P19367;P25063;A6NKF2;Q14790;Q9BX66;O15162;P11532;Q12959;Q9NP85;Q99856}

245 Pathogen[ P03363] interacts with 10 human partners:{Q12959;A6NKF2;O14920;Q9BX66;Q9HAU4;Q99856;Q12933;P04156;Q13158;P11532}

246 [Cluster 23]GO:0030140+C cellular\_component [name] trans-Golgi network transport vesicle [def] "A vesicle that mediates transport between the trans-Golgi network and

other parts of the cell." [GOC

247 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9NZD8;P14672}

248 Pathogen[ P0C214] interacts with 3 human partners:{Q9NZD8;Q9HD26;P14672}

249 Pathogen[ P03346] interacts with 5 human partners:{Q9NZD8;Q9HD26;P49755;P14672;Q9BVK6}

250 Pathogen[ Q85601] interacts with 2 human partners:{Q9HD26;P14672}

251 Pathogen[ P14079] interacts with 4 human partners:{P14672;Q9BVK6;Q9HD26;P49755}

252 Pathogen[ P03383] interacts with 3 human partners:{Q9NZD8;Q9HD26;P14672}

253 Pathogen[ P03410] interacts with 2 human partners:{Q9HD26;Q9BVK6}

254 Pathogen[ P14075] interacts with 3 human partners:{Q9HD26;Q9NZD8;P14672}

255 Pathogen[ P0C206] interacts with 4 human partners:{Q9BVK6;P49755;P14672;Q9HD26}

256 Pathogen[ P03363] interacts with 3 human partners:{P14672;Q9NZD8;Q9HD26}

257 [Cluster 24]GO:0005840+C cellular\_component [name] ribosome [def] "An intracellular organelle, about 200 A in diameter, consisting of RNA and protein. It is the site of protein biosynthesis resulting from translation of messenger RNA (mRNA). It consists of two subunits, one large and one small, each containing only protein and RNA. Both the ribosome and its subunits are characterized by their sedimentation coefficients, expressed in Svedberg units (symbol

258 Pathogen[ Q2Q067] interacts with 170 human partners:{Q5JNZ5;Q8N5N7;P51398;Q9HD33;P61313;P62701;Q8NHW5;P82921;Q9BYD6;Q13084;Q9BZE1;P47914;P82933;P46779;Q96EL2;Q9BYD1;Q4U2R6;P82912;Q59GN2;P82932;Q9Y3B7;Q02543;P26373;Q9Y676;Q75394;Q96A35;P62750;Q0VDF9;P62273;Q9Y2R9;Q13405;Q96GC5;Q6NVV1;P82930;P15880;P40429;Q9BYN8;Q9NWU5;P46782;Q9BRJ2;P35268;Q92552;P22090;P46778;P82663;Q9BYC8;P62888;Q9Y3D9;P32969;P62277;P62241;Q9P0M9;P62244;P05387;Q5T653;Q9NVS2;P62861;P42766;P05386;Q9Y291;Q9P0J6;Q6P1L8;Q969Q0;Q9UNX3;P30050;Q8IXM3;Q9Y3D3;Q9Y2R5;P18077;P62891;P27695;Q9BQ48;P61927;Q9Y399;P39023;P62081;Q9Y2Q9;P61247;Q9UHB9;P61254;P62249;P62280;P83731;Q15235;Q9H2W6;P62263;P60866;P62906;P82650;Q9BQC6;P52815;P82914;Q02878;P46777;Q7Z7F7;P62899;P08708;Q96EH5;P08865;Q9NZE8;Q07020;P62913;Q060783;P62269;Q9NP92;Q9Y6G3;Q6P1L61;P62424;P62917;P62829;P46783;Q9BYD3;P36578;P62857;Q9BYD2;Q9Y3D5;P62847;P49207;P23396;Q9H0U6;P63173;P18621;P82675;Q9H9J2;Q9NRX2;Q86TS9;Q8TCC3;P39019;P82664;P61353;Q96L21;P62266;P42677;Q9Y3U8;P63220;P62841;Q8NE71;P83881;P62987;P49406;Q15637;Q9P015;Q9BXR0;P50914;P46776;Q9H7H0;Q96DV4;P82909;P62854;P09001;P62753;P05388;Q8N983;P18124;P62851;P25398;A6NKH3;Q9NQ50;P62910;Q92901;P46781;P82673;Q9BYC9;P27635;Q92665;P61513;P62945;Q71UM5;Q9NX20;P62979}

259 Pathogen[ P0C214] interacts with 175 human partners:{Q9HD33;P62861;P84098;Q96A35;P61247;P49406;Q9Y399;Q8N5N7;Q8NHW5;P82930;Q13405;Q9Y3D5;Q9BYD2;P27695;Q96EL2;Q9BYD1;Q9H9J2;P15880;P62081;P42766;P62913;P22090;P82912;Q92901;P62249;Q9Y3D9;P62899;Q96DV4;P62854;P39019;P62263;P82675;P0C6E6;Q9H0U6;Q9NYK5;Q16540;Q6P1L61;Q9Y676;Q86TS9;P62273;Q9NP92;P23396;P18077;Q15235;P05388;P62847;Q9BYD3;Q96GC5;Q9NX20;P62829;P26373;Q9H7H0;P27635;P46778;Q15637;Q6P5R6;Q4U2R6;Q5JNZ5;Q9NWU5;Q8IXM3;Q96EH5;P61513;Q7Z2W9;P83881;Q75394;Q5T653;P62701;Q71UM5;P49207;P63220;P08865;Q9Y2Q9;P32969;Q02543;P62266;P09001;Q9BXR0;Q969Q0;P82664;P82914;P62277;Q8N983;P50914;Q92665;P46779;Q59GN2;P40429;Q9P0J6;P47914;Q8TCC3;Q8NE71;P63173;Q13084;P46783;P51398;Q9BQ48;P82663;P82921;P62280;Q9UNX3;Q9Y3U8;Q9BYN8;Q6P1L8;P30050;P62753;P62910;P62891;Q8TD47;P82909;Q9NZE8;Q9Y6G3;P62269;Q9NQ50;P46781;Q9Y291;Q9Y2R9;A6NKH3;Q9BYC8;P61254;P62841;P62244;Q9NRX2;P62987;Q7Z7F7;Q9Y2R5;Q07020;P42677;P62945;Q6NVV1;Q9P0M9;P46776;Q9BQC6;P52815;P62241;P46777;P82932;P83731;Q96L21;P35268;Q9UHB9;P62424;P60866;Q9H2W6;Q9BYC8;P62857;P61313;P08708;Q9P015;P05387;P25398;Q9BZE1;Q9Y3B7;Q5F1R6;P61927;P62750;P62979;P82673;P05386;P62851;P46782;P82933;P18124;P82650;P61353;Q9BYD6;P36578;Q9BRJ2;Q92552;Q9Y3D3;Q0VDF9;P18621;Q06783;P62906;Q02878;Q9NVS2}

260 Pathogen[ P03346] interacts with 182 human partners:{Q5F1R6;Q9NQ39;Q96A35;Q9NVS2;P05387;Q9Y399;Q8NHW5;P46779;P82930;Q96EL2;Q9BYD1;P63173;Q5JNZ5;P62917;Q75394;P62249;P62913;P49406;Q9P0J6;Q8N983;P62861;P82912;P62277;Q02878;P82933;Q96EL3;Q6P1L61;Q59GN2;P62280;P39023;P62987;P61927;Q9UNX3;P62857;Q9H0U6;Q8TCC3;Q8IXM3;P46778;P49207;Q15637;Q6P5R6;P62266;Q9BYC8;P61254;Q9BQ48;Q71UM5;Q5T653;Q9H2W6;Q92552;P62424;P62273;Q9BYD2;P83731;P60866;P0CW22;P62899;Q969Q0;P82909;Q9BYC9;Q6NVV1;P35268;P09001;P62891;P08708;Q8TD47;P46782;P61353;P51398;P62854;Q9Y3D9;Q9Y3U8;P82650;P47914;Q9Y2R5;P08865;Q96L21;Q6DKI1;Q9NRX2;Q7Z7F7;Q15235;P61313;P25398;Q13084;P82914;Q060783;P61513;Q9NZE8;A6NKH3;P05388;Q9Y2R9;P62269;Q6P1L8;Q02543;P42766;P62081;Q9NQ50;P61247;Q9BYD3;Q9HD33;Q9NWU5;Q96DV4;P18621;Q9Y676;P46781;P82921;P84098;P15880;P50914;Q0VDF9;Q9Y6G3;P62829;P62979;Q9Y3D5;P39019;Q9BYD6;Q9Y3D3;Q9H7H0;P23396;Q4U2R6;P42677;P62750;Q96EH5;P62701;Q9BQC6;P30050;Q9NP92;Q9BXR0;P62910;P36578;Q86TS9;Q8NE71;Q9BRJ2;Q9BZE1;P82675;P62847;Q13405;Q9UHB9;P62851;Q8N5N7;P22090;Q92616;P27695;P46777;P82663;P52815;Q07020;P62263;P82664;P62841;P83881;P82932;P05386;P18077;Q7Z2W9;P46776;P62241;Q9Y291;Q9BYN8;P62753;P62945;Q92901;P32969;P26373;P18124;P40429;P27635;Q9P015;Q7Z7H8;P46783;Q9Y3B7;P82673;Q96GC5;P62906;Q9H9J2;Q92665;Q9P0M9;P62244;Q9NX20;P62888;P0C6E6;P63220;Q9Y2Q9}

261 Pathogen[ Q85601] interacts with 171 human partners:{P46783;P32969;P61513;Q15637;Q8NHW5;P26373;P62857;P52815;P62244;P09001;Q9BQC6;Q96EL2;Q9BXR0;Q9BYD1;P62913;P62854;P82930;P82912;P62081;Q6P5R6;P61353;Q96A35;P62891;P46776;P82933;P18077;P61313;Q9Y2R5;Q9Y3D5;P49406;P05388;Q9NP92;A6NKH3;Q9Y3B7;Q4U2R6;P63173;Q9H0U6;Q9NX20;Q8TCC3;P82921;Q92665;Q9H2W6;P23396;P62273;P46778;P62829;P30050;P62753;P27635;Q9BYC8;Q9BYC9;P82932;P15880;Q9BQ48;Q9P0M9;P83881;Q07020;P39019;Q5T653;Q9Y3U8;Q71UM5;Q9BYN8;P62701;P62241;P82675;P62424;Q92552;Q9Y3D9;P83731;Q9BYD2;P62899;P62945;Q9H7H0;P62263;Q9P015;P62861;Q02878;Q9BYD6;P39023;P61254;Q9Y2R9;Q13405;P51398;Q9Y3D3;P49207;Q96GC5;Q9Y291;P62910;Q9Y6G3;Q9NRX2;Q8N983;P82909;Q15235;P62249;P62280;P4791

- 4;P84098;Q96L21;Q7Z7F7;Q13084;P08708;O75394;P42766;Q9NZE8;Q9NVS2;P62269;Q9Y2Q9;Q9BYD3;Q9NWU5;Q8N5N7;P18621;Q9Y676;P05387;Q9NYK5;Q9BRJ2;Q9UNX3;P82650;P62277;P35268;P62979;P62847;Q8NE71;Q9HD33;P42677;P63220;Q96EH5;Q8IXM3;Q86TS9;Q9BZE1;P46782;Q9NQ50;Q9UHB9;O60783;P46779;P62750;P62851;P62841;Q96DV4;P62987;P82663;P22090;P82664;P61927;P36578;Q9H9J2;P05386;P82914;Q0VDF9;P08865;Q9Y399;P61247;P27695;Q9P0J6;Q5JNZ5;P46777;P62917;Q92901;Q6P161;P18124;P46781;Q6NVV1;P25398;P60866;Q02543;P62906;P50914;P62266;P40429;P62888;Q5F1R6;Q6P1L8}
- 262 Pathogen[ P14079] interacts with 182 human partners: {Q9NQ39;Q15637;Q9Y3U8;Q9BQC6;P27635;Q8IXM3;P52815;P84098;P46779;A6NKH3;Q9BYD6;Q92552;Q7Z7F7;Q9NQ50;P26373;Q4U2R6;P23396;Q6NVV1;P40429;P18621;Q9H0U6;P83881;Q6P161;Q8TCC3;Q9UNX3;P82664;P46781;P83731;P61513;P62847;P62753;P82933;Q9BQ48;P39023;P62273;Q9Y2R9;Q9BYD2;Q9BYC9;P25398;Q9BRJ2;Q9Y6G3;Q9NRX2;P18077;Q9Y291;Q16540;P46783;P61254;P50914;Q7Z2W9;P62979;P62841;P18124;P42766;O60678;P62266;Q9Y2R5;P46782;P62987;Q5JNZ5;O60783;P62241;Q9Y3D3;P32969;P22090;Q9P0M9;P62829;P60866;Q0VDF9;P62854;Q07020;P39019;Q13084;Q9BZE1;P63220;P49207;Q96L21;P62244;P82921;P82650;P09001;Q96A35;P62263;Q02543;P62424;Q92901;P62277;Q9BXR0;Q9H2W6;P62750;P62910;Q86TS9;P63173;Q9Y6X1;Q6DKI1;Q96GC5;P46776;Q9BYD3;P82912;Q8NE71;P08708;Q92665;Q92616;Q9Y2Q9;P36578;Q8N5N7;P0CW22;Q9BYD1;Q71UM5;Q9BYC8;P27695;O15235;P62906;P47914;P62280;Q6P5R6;P62899;Q9NP92;Q9BYN8;Q13405;P61353;P62081;P62945;Q96EL3;Q9NX20;P46777;P42677;Q9H9J2;P30050;Q9P015;P15880;Q59GN2;O75394;Q7Z7H8;P62891;P82909;Q9H7H0;P82675;Q9NZE8;Q9HD33;P62888;P08865;P82673;P61927;P62917;Q9Y3B7;Q9P0J6;P6778;P62249;Q9Y676;P82930;Q96DV4;Q969Q0;P05386;P35268;P62913;Q5F1R6;P51398;Q8N983;Q9NVS2;P05387;P61247;Q9NYK5;P62269;P62701;Q9UHB9;P61313;Q5T653;P82663;Q8TD47;Q96EL2;P62851;Q6P1L8;P0C6E6;P05388;Q96EH5;Q9Y3D5;P62857;P62861;Q9Y3D9;P82914;Q8NHW5;P49406}
- 263 Pathogen[ P03383] interacts with 167 human partners: {P42766;P51398;P36578;P05388;P62266;Q8NHW5;P39019;P26373;Q96EL2;Q9BYD1;P62913;P62945;P62854;P82930;P40429;P82912;Q9BYD2;Q96A35;P62987;P62891;P25398;Q13084;P62280;P82664;Q07020;P62750;Q9BRJ2;P05387;Q9BQ48;P62249;P62888;P62899;P61927;A6NKH3;Q8NE71;P46777;P46779;P49207;Q9P0J6;Q9NX20;P83731;P62424;Q9H2W6;P49406;P18124;P82933;P46778;Q92901;P62753;Q9BQC6;P42677;Q9NWU5;P61247;Q9BYC9;Q5JNZ5;P83881;P09001;Q9BYD3;P47914;Q5T653;Q9P0M9;Q71UM5;Q9Y2R9;P62917;Q9NP92;P82914;Q13405;P62273;Q9UNX3;Q9BZE1;Q96L21;Q969Q0;Q92665;Q9NRX2;P30050;P84098;Q9Y6G3;O75394;P32969;Q9BYN8;Q9NVS2;P82675;P62277;Q92552;Q9BYD6;P18077;Q6P1L8;P63173;Q9Y3D9;O60783;P62081;Q9Y2Q9;Q9Y2R5;Q9Y3B7;P61313;P08865;P82909;P82663;P62851;P46782;Q9HD33;Q9NZE8;P62269;Q9P015;P63220;Q02543;P62244;Q02878;Q9Y3D5;Q86TS9;P82921;P62910;P27635;Q9BXR0;Q8IXM3;P62857;P82932;P62857;P82906;P46783;Q9H7H0;Q9Y3U8;P60866;P52815;P61254;P62979;P62241;Q7Z7F7;P46781;Q96EH5;Q9H9J2;P82650;P39023;Q9NQ50;Q9UHB9;Q8TCC3;P62841;P27695;Q6NVV1;P22090;P62701;P62829;Q9Y676;P62263;P62847;P35268;Q4U2R6;P05386;P50914;O15235;Q9Y291;Q15637;Q9Y399;P62861;P18621;P46776;Q96GC5;P15880;P23396;Q8N5N7;Q8N983;Q9Y3D3;P61513;Q59GN2;Q9BYC8;Q9H0U6;P08708;P61353}
- 264 Pathogen[ P03410] interacts with 183 human partners: {Q9Y2Q9;P62861;P05386;Q8NHW5;Q9Y399;Q7Z7F7;Q02543;P61247;P62241;P62829;P49207;P26373;P82663;Q9HD33;P61513;P82909;P62899;Q9P015;Q8NE71;P0CW22;Q9P0M9;Q9UHB9;Q15637;P62244;Q9H7H0;P62913;Q8TCC3;Q16540;Q02878;Q9NX20;Q92901;P15880;P46777;P46776;P62841;P82675;Q5JNZ5;P30050;Q9NQ39;P05388;Q8N983;O15235;P46781;P18124;Q96A35;P49406;Q92665;Q9BYD2;P62269;Q07020;P63220;P62910;P62910;P62847;Q59GN2;P62906;Q9P0J6;P52815;Q9NP92;P23396;P18621;P62266;Q9NWU5;P62249;P63173;P50914;Q969Q0;Q96DV4;P62280;Q5F1R6;Q96EH5;Q9BQC6;Q9NYK5;Q9BYN8;Q6DKI1;P22090;Q9BYD6;P61313;P62979;Q9Y3D5;Q9H9J2;Q9BYD3;P62701;P62750;O60783;P82664;P08865;Q96L21;Q0VDF9;Q9UNX3;P62277;Q9Y676;P36578;Q9BYD1;P18077;P25398;Q92552;Q9Y6X1;P61927;P84098;Q4U2R6;P62854;Q96EL3;P62273;Q9NRX2;Q9BYC8;P0C6E6;Q8N5N7;P62081;P46783;Q8TD47;Q6NVV1;Q9BRJ2;Q9Y3U8;Q13084;Q6P1L8;Q9Y291;P08708;Q9Y2R9;P46782;P32969;Q9Y6G3;Q9BQ48;Q9NQ50;Q8IXM3;P82673;Q5T653;P82912;Q92616;P46779;P27635;Q96EL2;Q9NZE8;P62987;Q9Y3D9;P27695;Q7Z2W9;Q86TS9;P62857;Q9BYC9;P62263;P62424;P62888;P61254;Q9H2W6;P46778;A6NKH3;P62945;P05387;P42766;P09001;P39019;P47914;P82933;P40429;P39023;Q6P161;P82914;P62917;P62851;Q7Z7H8;P82921;Q9NVS2;P83731;P82930;P35268;Q9Y2R5;P61353;P62891;P62753;Q6P5R6;Q13405;Q71UM5;Q9BZE1;O75394;P83881;Q9H0U6;P60866;P51398;P42677;Q9Y3D3;Q96GC5;Q9Y3B7}
- 265 Pathogen[ P14075] interacts with 168 human partners: {P42766;Q9H7H0;P49207;P62857;P52815;P46781;Q9BRJ2;P63220;P32969;Q96EL2;Q9BYD1;Q9BYD6;Q9NRX2;Q9BYD2;P42677;P62913;P82921;P22090;Q9P0M9;Q9NYK5;Q02878;P82912;Q96L21;Q9Y3D9;P62277;Q96GC5;Q9Y2Q9;P62851;Q59GN2;P08865;P27695;P62244;P49406;Q9BQC6;Q9Y2R5;Q9NX20;P08708;P61254;P46778;O75394;P05388;Q9BXR0;Q9Y3D3;Q9HD33;P83881;P82650;Q5T653;P46777;Q6P1L8;Q9Y3U8;P62249;Q9H2W6;Q8N5N7;P62081;Q9H9J2;P62750;P18621;Q969Q0;Q9Y3D5;Q02543;Q9BYC9;P18124;Q9UNX3;P25398;Q9BQ48;Q9BZE1;Q13084;P82909;Q9Y3B7;P51398;Q9Y2R9;Q13405;Q9Y676;P63173;Q9NWU5;P30050;O15235;P62979;Q9Y399;P83731;P84098;Q8N983;Q8TCC3;P61247;O60783;P62753;P46782;P62891;P62861;Q96A35;P18077;P82664;P46779;P82665;P62917;Q15637;P39023;Q9NZE8;P50914;Q6NVV1;P62269;P62847;P62910;P62273;Q9P015;Q86TS9;P40429;Q9NQ50;P82663;P23396;P62241;Q9Y291;P15880;Q8NE71;P82930;P62987;P82914;P62841;P36578;Q5JNZ5;P62266;P82932;P61513;P61313;P27635;P62888;Q9H0U6;Q92901;Q8IXM3;P35268;Q9BYN8;Q9UHB9;P62945;P46776;Q96EH5;P09001;Q9BYD3;P62861;Q7Z7H8;Q4U2R6;P62701;Q9NP92;Q9BYC8;P62899;P82933;P47914;P62906;Q7Z7F7;P05386;P61353;P39019;Q92552;P62424;P62829;P62280;Q9P0J6;Q07020;P62263;P62854;P60866;P82675;P26373;P05387;Q9Y6G3;A6NKH3;Q9NVS2;Q71UM5;P61927}
- 266 Pathogen[ P0C206] interacts with 181 human partners: {P27695;Q8N5N7;Q6P1L8;P40429;P61313;Q6P161;Q96A35;Q9Y291;Q9Y3D5;Q0VDF9;Q9Y399;Q8NHW5;Q96L21;P27635;P82930;P18124;Q8IXM3;Q96EL3;Q7Z2W9;P62854;Q9H0U6;Q96EL2;P49207;Q9BQ48;P62081;Q9Y3D3;Q9P015;P30050;O60783;P82914;Q13084;P62241;Q4U2R6;P62244;Q5F1R6;P50914;Q9BYC8;P08865;P62750;P18621;P46781;P62266;Q02543;Q92665;Q7Z7H8;Q9Y676;P09001;Q

07020;Q9P0M9;P83881;P46778;Q15637;P62263;P62273;Q02878;Q9P0J6;Q9NWU5;Q5T653;P82673;Q9NRX2;P62280;P49406;Q6P5R6;P62857;P62851;Q9BYN8;Q9Y6G3;P62910;P46782;Q9NZE8;P61247;P51398;Q9HD33;P18077;Q92616;Q9BRJ2;P62913;P61927;P61353;P62888;Q6NVV1;O75394;P82664;P36578;Q96GC5;Q9NVS2;P62861;Q9BYC9;P35268;P23396;P39023;Q9Y2R9;P32969;Q13405;P82909;P62701;P05386;Q9Y3B7;Q86TS9;P22090;Q9BYD6;P84098;P62945;Q9BYD2;P26373;Q71UM5;Q8TCC3;P46777;P05388;P62979;P62899;P82933;Q92552;P83731;Q9Y3D9;P82663;P82675;P39019;Q92901;P05387;P46783;P42766;P60866;Q9NP92;P62841;Q8NE71;Q9H2W6;Q9UNX3;Q9BZE1;P82650;Q969Q0;P61513;Q9Y2Q9;O60678;A6NKH3;Q9BYD1;Q9NQ50;P62277;Q9BXR0;Q9UHB9;P0C6E6;P46776;Q9H9J2;Q8N983;P62906;Q9H7H0;P63173;P82932;Q9NYK5;P62987;Q9Y2R5;P62891;P62269;P62753;P46779;P63220;Q5JNZ5;P15880;Q9NX20;Q96EH5;P25398;P08708;Q7Z7F7;P47914;O15235;Q9BQC6;P62847;P61254;Q96DV4;P82912;P42677;P62829;P52815;Q9BYD3;P62249;P62424;P82921;Q59GN2;Q6DKI1;Q9Y3U8;P62917}

267 Pathogen[ P03363] interacts with 178 human partners: {P62913;P82650;Q9Y2R5;Q9BYD2;P18621;P05386;Q8NHW5;P62750;P23396;P42677;Q9H7H0;P63173;P08865;Q96GC5;P62847;P18077;P82664;P05387;Q96EL2;Q9BXR0;P84098;P42766;Q9NZE8;P62249;Q9BYD1;P82921;P05388;P36578;P49406;P62753;P62081;A6NKH3;P62910;Q8IXM3;P61513;P46776;Q13405;Q9BYD3;P82914;P61254;Q9P0J6;P62273;Q9UHB9;P32969;Q92901;Q8N5N7;P46778;Q9NVS2;Q9Y3D5;P61927;P82930;Q9Y2Q9;P62891;P52815;Q6P5R6;Q59GN2;P61353;Q96EL3;Q5F1R6;Q9H9J2;Q96A35;Q9BZE1;P08708;Q9NQ50;P15880;Q96L21;Q7Z7F7;Q8TCC3;Q96DV4;Q9H0U6;Q9HD33;Q9Y3B7;P26373;Q4U2R6;P83881;Q96EH5;Q9BRJ2;Q9NWU5;P22090;P62861;P62841;Q9UNX3;O75394;P30050;P82912;P62829;P82663;P46782;P35268;Q9NRX2;Q6P161;Q9Y6G3;Q92552;Q9BYC8;P46781;P50914;Q9H2W6;Q15637;Q9P0M9;Q9Y2R9;P63220;Q9Y3D9;P61313;P39019;Q9NX20;P46779;Q5T653;Q02543;P46777;P62987;Q8N983;Q7Z7H8;O60783;P25398;Q9NP92;P09001;P82675;Q5JNZ5;P82933;P83731;P62851;P62280;Q71UM5;Q92665;Q9Y3U8;P62888;Q969Q0;Q92616;Q9Y676;P62244;P62277;P62906;Q8NE71;P62266;P62945;P49207;P62241;Q9BQC6;P62424;P60866;P61247;Q9P015;Q9Y3D3;Q13084;P62899;P62857;Q02878;P82909;Q6NVV1;Q07020;P0C6E6;P39023;P82932;Q9NQ39;Q9BQ48;Q86T59;P62854;Q9Y399;O15235;P62917;Q7Z2W9;Q0VDF9;P51398;Q9BYC9;P18124;P40429;P27635;P62263;P47914;Q9Y291;P62701;Q9BYN8;Q8TD47;Q9BYD6;P62269;P46783;Q6P1L8;Q6DKI1}

268 [Cluster 25]GO:0044530+C

269 Pathogen[ Q2Q067] interacts with 3 human partners: {Q92900;P55265;P38159}

270 Pathogen[ P0C214] interacts with 3 human partners: {P38159;Q92900;P55265}

271 Pathogen[ P03346] interacts with 3 human partners: {P55265;P38159;Q92900}

272 Pathogen[ Q85601] interacts with 3 human partners: {P55265;P38159;Q92900}

273 Pathogen[ P14079] interacts with 3 human partners: {P55265;Q92900;P38159}

274 Pathogen[ P03383] interacts with 3 human partners: {P38159;P55265;Q92900}

275 Pathogen[ P03410] interacts with 3 human partners: {Q92900;P55265;P38159}

276 Pathogen[ P14075] interacts with 3 human partners: {Q92900;P55265;P38159}

277 Pathogen[ P0C206] interacts with 3 human partners: {P55265;P38159;Q92900}

278 Pathogen[ P03363] interacts with 3 human partners: {Q92900;P38159;P55265}

279 [Cluster 26]GO:0015030+C cellular\_component [name] Cajal body [def] "A class of nuclear body, first seen after silver staining by Ramon y Cajal in 1903, enriched in small nuclear ribonucleoproteins, and certain general RNA polymerase II transcription factors\_ ultrastructurally, they appear as a tangle of coiled, electron-dense threads roughly 0.5 micrometers in diameter\_ involved in aspects of snRNP biogenesis\_ the protein coilin serves as a marker for Cajal bodies. Some argue that Cajal bodies are the sites for preassembly of transcriptosomes, unitary particles involved in transcription and processing of RNA." [http

280 Pathogen[ Q2Q067] interacts with 40 human partners: {O43290;P22087;O75940;P38432;Q8WWY3;O43172;Q8WTR7;Q6PI26;Q96JC9;Q9NPE3;Q9UHI6;O14980;P55199;O43482;O60832;Q14978;Q8WDX5;Q01081;Q96RS0;Q8TEQ6;P57678;Q15029;Q9UQ35;Q9NY12;Q9Y2X3;O43395;Q9NWZ8;P24941;Q9BQA5;Q9H840;Q16637;Q14331;O14893;Q14207;Q9UBY9;P09234;Q9H814;Q9BUR4;Q8NG50;Q969L4}

281 Pathogen[ P0C214] interacts with 42 human partners: {Q16637;P38432;Q14331;O43172;Q14207;Q9NPE3;Q9H814;Q15029;Q969L4;P57678;Q9UBY9;Q6PI26;O43395;P22087;Q9BUR4;Q8WDX5;Q9Y3D8;Q9NY12;Q9H089;O43482;O14980;Q14978;Q8TEQ6;P55199;P24941;Q9UHI6;Q01081;Q96RS0;O75940;Q9H840;O60832;Q8WTR7;O14893;Q9UQ35;O43290;P09234;Q9BQA5;Q96JC9;Q9NWZ8;Q8NG50;Q9Y2X3;Q8WWY3}

282 Pathogen[ P03346] interacts with 44 human partners: {O43172;Q14207;O43290;P24941;Q6PI26;Q9H814;Q8WDX5;O75940;Q8WTR7;O60832;O43482;Q9BUR4;Q16637;Q9Y2X3;O14980;Q14978;Q8IYM9;Q9UBY9;Q9NX24;Q9NWZ8;Q9UHI6;Q8NG50;Q01081;Q96RS0;Q8TEQ6;Q9Y3D8;Q96JC9;Q8WWY3;Q9UQ35;P55199;P57678;Q9NPE3;P22087;O14893;P38432;Q969L4;Q15029;Q9NY12;P09234;Q86XP3;Q9H840;Q9BQA5;Q14331;O43395}

283 Pathogen[ Q85601] interacts with 41 human partners: {Q14978;P09234;Q14331;Q9BUR4;Q6PI26;Q969L4;O75940;Q9H089;Q8NG50;P38432;Q9H814;Q96JC9;Q9UBY9;Q8TEQ6;Q15029;Q9NWZ8;Q9UHI6;Q8IYM9;Q01081;Q96RS0;Q9UQ35;O43395;O43290;Q8WWY3;O14980;Q14207;P55199;Q9BQA5;Q9NPE3;P22087;O14893;Q9NY12;Q16637;O43172;Q8WTR7;Q9Y2X3;O43482;P24941;O60832;Q8WDX5;Q9H840}

284 Pathogen[ P14079] interacts with 40 human partners: {P55199;P57678;Q96RS0;Q8WTR7;Q8TEQ6;Q9NPE3;O43482;Q9Y2X3;O14893;Q96JC9;O60832;Q14207;Q8NG50;Q9H840;Q15029;Q9UHI6;Q9BQA5;P22087;O43290;Q8WWY3;Q9BUR4;Q9NWZ8;O75940;Q16637;Q9NY12;Q9UQ35;Q969L4;Q5W0Q7;Q01081;P38432;Q6PI26;Q14331;P09234;O43172;Q9UBY9;O43395;Q8WDX5;Q9H089;Q14978;Q9H814}

285 Pathogen[ P03383] interacts with 39 human partners: {Q14978;P55199;Q969L4;Q9H840;O43290;Q15029;O43172;Q9BUR4;Q6PI26;Q9UHI6;Q8WDX5;Q14331;Q9NPE3;P38432;O43395;Q16637;Q8TEQ6;O14893;O14980;Q9BQA5;P24941;Q9NY12;Q01081;Q96RS0;Q14207;Q8WWY3;Q9UQ35;Q9Y2X3;Q8WTR7;P57678;Q9UBY9;Q96JC9;Q9NWZ8;P22087;P09234;

286 O60832;O43482;O75940;Q9H814}  
Pathogen[ P03410] interacts with 42 human  
partners:{P22087;Q96RS0;Q8WXD5;Q01081;O14893;Q8WWY3;Q15029;Q8WTR7;Q9H840;Q9BQA5;Q6PI2  
6;Q14207;Q8TEQ6;Q14978;Q8NG50;O60832;P38432;Q9Y2X3;Q9UQ35;Q9NX24;P55199;Q96JC9;Q9H814  
;O43172;Q16637;P24941;O43482;O43395;Q9NY12;Q9H089;P09234;Q969L4;Q9NPE3;P57678;Q9BUR4;  
O43290;O75940;Q9UHI6;Q9UBY9;O14980;Q14331;Q9NWZ8}

287 Pathogen[ P14075] interacts with 39 human  
partners:{Q8TEQ6;Q9H814;Q9UBY9;Q14207;Q8WXD5;P24941;Q9BQA5;O43395;P38432;P57678;Q6PI2  
6;P09234;Q9H840;O43172;Q9UQ35;Q15029;Q16637;O75940;Q8WTR7;O14980;Q9UHI6;Q96JC9;Q9NPE3  
;P22087;Q01081;Q96RS0;Q9BUR4;Q9NWZ8;O60832;P55199;O14893;Q14331;O43290;Q9NY12;O43482;  
Q9Y2X3;Q8WWY3;Q14978;Q969L4}

288 Pathogen[ P0C206] interacts with 42 human  
partners:{Q96RS0;Q9NPE3;Q9H840;Q01081;Q9Y3D8;Q9NY12;Q8WXD5;Q8TEQ6;Q8WTR7;O75940;Q9BQA  
5;O43290;Q9UQ35;Q9Y2X3;Q9H814;Q9H089;Q6PI26;O43395;O14893;O43482;Q8WWY3;O60832;Q9BUR4  
;O43172;Q96JC9;Q8IYM9;P22087;Q9UHI6;P55199;Q14331;Q16637;P24941;P38432;P09234;Q8NG50;  
Q14207;Q9NWZ8;Q14978;Q9UBY9;Q969L4;Q15029;P57678}

289 Pathogen[ P03363] interacts with 43 human  
partners:{O60832;Q9UBY9;O75940;Q9NX24;Q14978;Q96RS0;O43395;Q96JC9;Q9BUR4;Q9Y2X3;Q8NG5  
0;Q9UHI6;P55199;Q14331;O14980;Q9NWZ8;Q9NY12;P24941;P09234;Q8WWY3;O14893;Q15029;P57678  
;Q6PI26;O43172;Q9Y3D8;Q9NPE3;Q8WXD5;Q9BQA5;P22087;O43290;Q9H840;Q86XP3;Q01081;Q969L4;  
Q8TEQ6;Q16637;Q8WTR7;Q14207;O43482;Q9UQ35;Q9H814;P38432}

290 [Cluster 27]GO:0044297+C cellular\_component [name] cell body [def] "The portion of  
a cell bearing surface projections such as axons, dendrites, cilia, or flagella that  
includes the nucleus, but excludes all cell projections." [GOC

291 Pathogen[ Q2Q067] interacts with 7 human  
partners:{Q9UER7;P14136;Q13158;Q14790;Q9HB71;Q9UQF2;Q9NRI5}

292 Pathogen[ P0C214] interacts with 9 human  
partners:{P05937;Q9NRI5;Q13158;P14136;Q9UER7;O00154;Q9UQF2;Q9HB71;Q14790}

293 Pathogen[ P03346] interacts with 10 human  
partners:{Q9NRI5;Q13158;P14136;P05937;Q9H0R8;Q9HB71;Q9UER7;P11137;Q14790;Q9UQF2}

294 Pathogen[ Q85601] interacts with 9 human  
partners:{Q13158;Q14790;Q9H0R8;Q9UER7;P14136;Q9UQF2;Q9NRI5;Q9GZM8;Q9HB71}

295 Pathogen[ P14079] interacts with 11 human  
partners:{P05937;Q9UQF2;Q9NRI5;P14136;Q9HB71;Q14790;Q9UER7;Q9H0R8;Q9GZM8;Q13158;P1113  
7}

296 Pathogen[ P03383] interacts with 6 human  
partners:{Q9NRI5;P14136;Q9UQF2;Q13158;Q9HB71;Q9UER7}

297 Pathogen[ P03410] interacts with 11 human  
partners:{Q9HB71;P11137;Q9GZM8;Q13158;O00154;Q9UER7;Q9H0R8;P05937;Q9NRI5;P14136;Q9UQF  
2}

298 Pathogen[ P14075] interacts with 6 human  
partners:{P14136;Q9NRI5;Q13158;Q9UER7;Q9UQF2;Q9HB71}

299 Pathogen[ P0C206] interacts with 10 human  
partners:{Q9HB71;Q9UER7;Q13158;Q9UQF2;Q9GZM8;P11137;P14136;Q9NRI5;Q14790;Q9H0R8}

300 Pathogen[ P03363] interacts with 10 human  
partners:{P11137;Q9HB71;Q9UQF2;Q9UER7;Q13158;Q9H0R8;P14136;Q12923;Q9NRI5;P05937}

301 [Cluster 28]GO:0000797+C cellular\_component [name] condensin core heterodimer [def]  
"The core heterodimer of a condensin complex, a multisubunit protein complex that plays a  
central role in chromosome condensation." [GOC

302 Pathogen[ Q2Q067] interacts with 1 human partners:{Q15021}

303 Pathogen[ P0C214] interacts with 1 human partners:{Q15021}

304 Pathogen[ P03346] interacts with 1 human partners:{Q15021}

305 Pathogen[ Q85601] interacts with 1 human partners:{Q15021}

306 Pathogen[ P14079] interacts with 1 human partners:{Q15021}

307 Pathogen[ P03383] interacts with 1 human partners:{Q15021}

308 Pathogen[ P03410] interacts with 1 human partners:{Q15021}

309 Pathogen[ P14075] interacts with 1 human partners:{Q15021}

310 Pathogen[ P0C206] interacts with 1 human partners:{Q15021}

311 Pathogen[ P03363] interacts with 1 human partners:{Q15021}

312 [Cluster 29]GO:0035517+C cellular\_component [name] PR-DUB complex [def] "A  
multimeric protein complex that removes monoubiquitin from histone H2A. In Drosophila and  
mammals, the core of the complex is composed of Calypso/BAP1 and Asx/ASXL1,  
respectively." [PMID

313 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8IXJ9}

314 Pathogen[ P0C214] interacts with 2 human partners:{Q92560;Q8IXJ9}

315 Pathogen[ P03346] interacts with 2 human partners:{Q92560;Q8IXJ9}

316 Pathogen[ Q85601] interacts with 2 human partners:{Q92560;Q8IXJ9}

317 Pathogen[ P14079] interacts with 2 human partners:{Q8IXJ9;Q92560}

318 Pathogen[ P03383] interacts with 1 human partners:{Q8IXJ9}

319 Pathogen[ P03410] interacts with 1 human partners:{Q8IXJ9}

320 Pathogen[ P14075] interacts with 1 human partners:{Q8IXJ9}

321 Pathogen[ P0C206] interacts with 2 human partners:{Q8IXJ9;Q92560}

322 Pathogen[ P03363] interacts with 2 human partners:{Q8IXJ9;Q92560}

323 [Cluster 30]GO:0005938+C cellular\_component [name] cell cortex [def] "The region of  
a cell that lies just beneath the plasma membrane and often, but not always, contains a  
network of actin filaments and associated proteins." [GOC

- 324 Pathogen[ Q2Q067] interacts with 25 human  
partners: {Q96J02;A6NGQ2;Q9NQW6;Q9NPB6;Q9BYG5;Q7Z460;Q12933;Q14511;Q9UER7;P29966;P59047;P11171;O14641;P54840;P56279;Q9NZU7;P19338;O75122;Q96PI1;P81274;Q02952;O60759;Q9H808;P35579;P61586}
- 325 Pathogen[ P0C214] interacts with 24 human  
partners: {Q96J02;P29966;O60759;P81274;Q9UM54;P61586;Q9H808;O75122;Q9NPB6;P35580;Q9UER7;O14641;Q12933;Q9NZU7;Q14511;Q7Z460;Q9BYG5;P54840;P19338;P56279;P59047;P11171;Q9NVN3;Q96PI1}
- 326 Pathogen[ P03346] interacts with 39 human  
partners: {Q96J02;P59047;Q96AC1;Q969H4;P56279;P02549;O14908;Q9NQW6;Q14511;P11277;P35579;Q14247;Q9NZU7;O60759;Q9NPB6;P19338;Q8TEW0;A5A3E0;Q13813;Q96PI1;Q14847;P11171;Q9P0K7;O14641;P81274;Q9BYG5;Q15019;Q9H808;Q02952;Q9UER7;O75604;O76003;O75122;P29966;Q9NVN3;P54840;Q7Z460;A6NGQ2;P61586}
- 327 Pathogen[ Q85601] interacts with 25 human  
partners: {Q96J02;Q9NZU7;Q9NQW6;Q9BYG5;P35579;P56279;P81274;O60759;Q9UER7;P11171;P19338;O75122;O76003;Q9H808;O14641;Q12933;Q9NPB6;P61586;P29966;Q7Z460;P54840;P35580;Q9UM54;Q14511;P59047}
- 328 Pathogen[ P14079] interacts with 43 human  
partners: {Q02952;Q9NQW6;P35579;O95876;Q9BYG5;Q7Z460;P11171;O14641;Q587J8;O60759;Q14847;Q9UM54;A6NGQ2;Q9H808;Q8TEW0;P19338;Q9Y6U3;Q9UER7;P29966;A5A3E0;Q96AC1;P61586;Q14247;P11277;Q96J02;O76003;Q969H4;Q12933;P81274;P49023;P56279;Q9NPB6;Q9UEY8;P54840;Q13813;O75122;P02549;O14908;Q9NVN3;P59047;Q96PI1;Q9NZU7;Q9P0K7}
- 329 Pathogen[ P03383] interacts with 19 human  
partners: {Q7Z460;P19338;Q96PI1;P81274;Q9H808;A6NGQ2;P61586;O14641;Q12933;Q9BYG5;Q14511;Q9NPB6;P29966;Q9UER7;P35580;P54840;P35579;P56279;Q02952}
- 330 Pathogen[ P03410] interacts with 42 human  
partners: {Q7Z460;P56279;Q9UEY8;O76003;P54840;A6NGQ2;A5A3E0;O14908;P35579;P59047;Q9Y6U3;Q9H808;Q9NQW6;Q969H4;P02549;Q9NVN3;O60759;P11171;Q9UM54;Q9UER7;Q14511;P61586;Q14847;P19338;O95876;Q12933;Q96PI1;P81274;Q9NZU7;P35580;Q8TEW0;Q9NPB6;Q14247;Q02952;Q13813;O75122;Q587J8;P11277;P29966;Q9P0K7;Q9BYG5;O14641}
- 331 Pathogen[ P14075] interacts with 19 human  
partners: {Q96PI1;Q14511;P19338;P81274;Q7Z460;P54840;P56279;Q02952;O14641;P29966;Q12933;Q9H808;P35579;P61586;A6NGQ2;Q9BYG5;Q9NPB6;Q9UER7;P11171}
- 332 Pathogen[ P0C206] interacts with 36 human  
partners: {A6NGQ2;Q9UM54;P81274;Q15019;O60759;Q96PI1;Q9NQW6;O75604;Q96J02;Q9BYG5;P19338;Q9UER7;Q12933;Q9NZU7;Q9H808;P61586;O75122;Q8TEW0;P54840;P59047;O14908;Q9NPB6;O76003;P35579;Q02952;P11277;P56279;Q7Z460;A5A3E0;Q969H4;P35580;O95876;Q9NVN3;Q14511;P29966;P11171}
- 333 Pathogen[ P03363] interacts with 37 human  
partners: {A6NGQ2;P19338;A5A3E0;P11277;O14908;P02549;P35579;Q14247;Q02952;Q9NQW6;P56279;O75604;O76003;Q12933;Q14847;Q9NPB6;Q9UER7;Q96RU3;P81274;Q969H4;Q9P0K7;Q76G19;Q14511;Q9H808;P11171;Q9NZU7;Q7Z460;P54840;P59047;P29966;Q9BYG5;Q96PI1;O60759;Q96AC1;Q99719;O14641;Q13813}
- 334 [Cluster 31]GO:0012505+C cellular\_component [name] endomembrane system [def] "A collection of membranous structures involved in transport within the cell. The main components of the endomembrane system are endoplasmic reticulum, Golgi bodies, vesicles, cell membrane and nuclear envelope. Members of the endomembrane system pass materials through each other or through the use of vesicles." [GOC
- 335 Pathogen[ Q2Q067] interacts with 12 human  
partners: {Q9UL45;O00291;Q5SQN1;Q9BXW4;Q9BZE9;Q8N1I0;Q9HD42;Q00587;Q15599;Q9BZR8;Q96NA2;P14672}
- 336 Pathogen[ P0C214] interacts with 13 human  
partners: {Q15599;Q9HD42;Q9BXW4;Q96NA2;Q5SQN1;Q9BZE9;O14613;Q9UL45;Q8N1I0;P14672;Q9H492;O00291;Q9BZR8}
- 337 Pathogen[ P03346] interacts with 26 human  
partners: {O95166;Q96HJ5;Q9HD42;Q5SQN1;Q96FS4;Q96NA2;Q00587;O14613;O00291;Q9BZE9;Q8TEW0;Q96FZ7;Q9BZ29;Q8N3R9;Q15599;Q9NQS1;Q9H492;Q15041;Q9UL45;Q9BZR8;Q9BXW4;O43427;P14672;Q8N1I0;O75146;Q86Y82}
- 338 Pathogen[ Q85601] interacts with 14 human  
partners: {Q9H492;O95166;Q9BZE9;Q96FZ7;Q9BXW4;O14613;Q5SQN1;O00291;Q96NA2;Q9BZR8;P14672;Q8N1I0;Q9HD42;Q15599}
- 339 Pathogen[ P14079] interacts with 32 human  
partners: {O95166;Q96NA2;O14613;O00291;O75146;Q86VI4;Q9H492;Q13323;P14672;Q15041;Q9BZE9;Q9HD42;Q5SQN1;Q9UKI2;Q15012;Q8TEW0;Q6NZY7;O43427;Q9BZR8;O00519;Q969L2;Q96HJ5;Q9UL45;Q15599;Q8WU20;Q8N3R9;Q96FZ7;Q00587;Q8N1I0;Q9H3Q1;Q9BXW4;Q9NQS1}
- 340 Pathogen[ P03383] interacts with 7 human  
partners: {Q9BZE9;O00291;Q9HD42;Q00587;P14672;Q9NQS1;Q96NA2}
- 341 Pathogen[ P03410] interacts with 33 human  
partners: {Q96HJ5;Q15041;O00519;Q9BZE9;Q9BRV3;Q8TEW8;O43427;Q5SQN1;Q9UKI2;Q00587;O00291;Q86VI4;Q9H3Q1;Q6NZY7;O75146;Q9UL45;O95166;Q15599;Q9H492;Q9HD42;O14613;Q9BXW4;Q96FZ7;Q8TEW0;Q9BZR8;Q8WU20;Q96NA2;Q8N1I0;Q969L2;Q9NQS1;Q15012;Q8N3R9;Q13323}
- 342 Pathogen[ P14075] interacts with 11 human  
partners: {Q96HJ5;O43427;Q96NA2;Q86VI4;Q00587;O00291;Q9NQS1;O14613;Q9HD42;P14672;Q9BZE9}
- 343 Pathogen[ P0C206] interacts with 24 human  
partners: {Q9BXW4;Q9UL45;O00291;Q9BZR8;O43427;Q96HJ5;Q5SQN1;Q9H492;O14613;Q9BZE9;Q8N3R



9;Q8TEW0;Q15599;Q15041;Q8WU20;Q8N1I0;P14672;Q9HD42;Q96NA2;Q96FZ7;Q9NQS1;O95166;Q969L2;Q00587}

344 Pathogen[ P03363] interacts with 21 human partners:{Q9NQS1;Q9H492;Q9BXW4;Q15041;Q00587;Q9BZR8;Q969L2;Q96HJ5;Q8N1I0;Q8N3R9;Q5SQN1;O14613;Q9BZE9;Q15599;P14672;Q96NA2;O75146;O95166;Q96FS4;O00291;Q9HD42}

345 [Cluster 32]GO:0005786+C cellular\_component [name] signal recognition particle, endoplasmic reticulum targeting [def] "A ribonucleoprotein particle of 325 kDa composed of a 7S (300 nucleotide) RNA molecule and a complex of six different polypeptides. This binds both to the N-terminal signal peptide for proteins destined for the endoplasmic reticulum as they emerge from the large ribosomal subunit and also to the ribosome. This binding arrests further translation thereby preventing the proteins from being released into the cytosol. The SRP-ribosome complex then diffuses to the endoplasmic reticulum where it is bound to the signal recognition particle receptor, which allows resumption of protein synthesis and facilitates the passage of the growing polypeptide chain through the translocon. Through a process involving GTP hydrolysis, the SRP-SRP receptor complex dissociates and SRP returns to the cytosol. Of the six polypeptides of SRP the 54 kDa subunit (SRP54) is the central player. It contains an N-terminal GTPase domain and a C-terminal domain that binds directly to the signal peptide and the SRP RNA. Examples of this component are found in *Mus musculus*, *Saccharomyces cerevisiae* and *Arabidopsis thaliana*." [GOC

346 Pathogen[ Q2Q067] interacts with 3 human partners:{P49458;P09132;Q9UHB9}

347 Pathogen[ P0C214] interacts with 3 human partners:{Q9UHB9;P49458;P09132}

348 Pathogen[ P03346] interacts with 3 human partners:{P49458;P09132;Q9UHB9}

349 Pathogen[ Q85601] interacts with 2 human partners:{Q9UHB9;P09132}

350 Pathogen[ P14079] interacts with 3 human partners:{P09132;P49458;Q9UHB9}

351 Pathogen[ P03383] interacts with 3 human partners:{P49458;P09132;Q9UHB9}

352 Pathogen[ P03410] interacts with 3 human partners:{Q9UHB9;P09132;P49458}

353 Pathogen[ P14075] interacts with 3 human partners:{P09132;P49458;Q9UHB9}

354 Pathogen[ P0C206] interacts with 3 human partners:{P09132;P49458;Q9UHB9}

355 Pathogen[ P03363] interacts with 3 human partners:{P09132;Q9UHB9;P49458}

356 [Cluster 33]GO:0030289+C cellular\_component [name] protein phosphatase 4 complex [def] "The complex formed by the catalytic subunit of protein phosphatase 4 plus a regulatory subunit." [PMID

357 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NY27}

358 Pathogen[ P0C214] interacts with 1 human partners:{Q9NY27}

359 Pathogen[ P03346] interacts with 2 human partners:{Q9NY27;Q8TF05}

360 Pathogen[ Q85601] interacts with 1 human partners:{Q9NY27}

361 Pathogen[ P14079] interacts with 2 human partners:{Q8TF05;Q9NY27}

362 Pathogen[ P03383] interacts with 1 human partners:{Q9NY27}

363 Pathogen[ P03410] interacts with 2 human partners:{Q8TF05;Q9NY27}

364 Pathogen[ P14075] interacts with 1 human partners:{Q9NY27}

365 Pathogen[ P0C206] interacts with 2 human partners:{Q8TF05;Q9NY27}

366 Pathogen[ P03363] interacts with 2 human partners:{Q9NY27;Q8TF05}

367 [Cluster 34]GO:0019185+C cellular\_component [name] snRNA-activating protein complex [def] "A protein complex that recognizes the proximal sequence element of RNA polymerase II and III snRNA promoters." [PMID

368 Pathogen[ Q2Q067] interacts with 1 human partners:{Q5SXM2}

369 Pathogen[ P0C214] interacts with 1 human partners:{Q5SXM2}

370 Pathogen[ P03346] interacts with 1 human partners:{Q5SXM2}

371 Pathogen[ Q85601] interacts with 1 human partners:{Q5SXM2}

372 Pathogen[ P14079] interacts with 1 human partners:{Q5SXM2}

373 Pathogen[ P03383] interacts with 1 human partners:{Q5SXM2}

374 Pathogen[ P03410] interacts with 1 human partners:{Q5SXM2}

375 Pathogen[ P14075] interacts with 1 human partners:{Q5SXM2}

376 Pathogen[ P0C206] interacts with 1 human partners:{Q5SXM2}

377 Pathogen[ P03363] interacts with 1 human partners:{Q5SXM2}

378 [Cluster 35]GO:0022625+C cellular\_component [name] cytosolic large ribosomal subunit [def] "The large subunit of a ribosome located in the cytosol." [GOC

379 Pathogen[ Q2Q067] interacts with 51 human partners:{P61313;P47914;P46779;Q02543;P26373;P62750;P40429;P35268;P46778;P62888;P32969;P05387;P42766;P05386;P30050;P18077;P62891;P61927;P39023;P61254;Q9NP64;P83731;P62906;Q02878;P46777;P62899;Q96EH5;Q07020;P62913;P62424;P62917;P62829;P36578;P49207;P63173;P18621;P61353;Q96L21;Q9Y3U8;P83881;P62987;P51116;P50914;P46776;P05388;P18124;P62910;Q92901;P27635;P61513;P62945}

380 Pathogen[ P0C214] interacts with 49 human partners:{P84098;P42766;P62913;Q92901;P62899;P18077;P05388;P62829;P26373;P27635;P46778;Q96EH5;P61513;P83881;P49207;P32969;Q02543;P50914;P46779;P40429;P47914;P63173;Q9Y3U8;P30050;P62910;P62891;P61254;P51116;Q9NP64;P62987;Q07020;P62945;P46776;P46777;P83731;Q96L21;P35268;P62424;P61313;P05387;P61927;P62750;P05386;P18124;P61353;P36578;P18621;P62906;Q02878}

381 Pathogen[ P03346] interacts with 52 human partners:{P05387;P46779;P63173;P62917;Q9NP64;P62913;Q02878;P39023;P62987;P61927;P46778;P49207;P61254;P62424;P83731;P62899;P35268;P62891;P61353;Q9Y3U8;P47914;P51116;Q96L21;P61313;P61513;P05388;Q02543;P42766;P18621;P84098;P50914;P62829;P62750;Q96EH5;P30050;P62910;P36578;P46777;Q07020;P83881;P05386;P18077;P46776;P62945;Q92901;P32969;P26373;P18124;P40429;P27635;P62906;P62888}

382 Pathogen[ Q85601] interacts with 52 human partners: {P32969;P61513;P26373;P62913;P51116;P61353;P62891;P46776;P18077;P61313;P05388;P63173;P46778;P62829;P30050;P27635;P83881;Q07020;Q9Y3U8;P62424;P83731;P62899;P62945;Q02878;P39023;P61254;P49207;P62910;Q9NP64;P47914;P84098;Q96L21;P42766;P18621;P05387;P35268;Q96EH5;P46779;P62750;P62987;P61927;P36578;P05386;P46777;P62917;Q92901;P18124;Q02543;P62906;P50914;P40429;P62888}

383 Pathogen[ P14079] interacts with 51 human partners: {Q9Y3U8;P27635;P84098;P46779;P26373;P40429;P18621;P83881;P83731;P61513;P39023;P18077;P61254;P50914;P18124;P42766;P62987;P32969;P62829;Q07020;P49207;Q96L21;Q9NP64;Q02543;P62424;Q92901;P62750;P62910;P63173;P46776;P36578;P51116;P62906;P47914;P62899;P61353;P62945;P46777;P30050;P62891;P62888;P61927;P62917;P46778;P05386;P35268;P62913;P05387;P61313;P05388;Q96EH5}

384 Pathogen[ P03383] interacts with 52 human partners: {P42766;P36578;P05388;P26373;P62913;P62945;P40429;P62987;P62891;Q9NP64;Q07020;P62750;P05387;P62888;P62899;P61927;P46777;P46779;P49207;P83731;P62424;P18124;P46778;Q92901;P83881;P47914;P62917;Q96L21;P30050;P84098;P32969;P18077;P63173;P61313;Q02878;P62910;P27635;P51116;P62906;Q9Y3U8;P61254;Q96EH5;P39023;P62829;P35268;P05386;P50914;P18621;P46776;P61513;P61353}

385 Pathogen[ P03410] interacts with 51 human partners: {P05386;Q02543;P62829;P49207;P26373;P61513;Q9NP64;P62899;P62913;Q02878;Q92901;P46777;P46776;P30050;P05388;P18124;Q07020;P62910;P62906;P18621;P63173;P50914;Q96EH5;P61313;P62750;Q96L21;P36578;P18077;P61927;P84098;Q9Y3U8;P32969;P46779;P27635;P62987;P62424;P62888;P61254;P46778;P62945;P05387;P42766;P47914;P40429;P39023;P62917;P83731;P35268;P61353;P62891;P83881}

386 Pathogen[ P14075] interacts with 52 human partners: {P42766;P49207;P32969;P62913;Q02878;Q96L21;P61254;P46778;P05388;P83881;P46777;Q9Y3U8;P62750;P18621;Q02543;P18124;P63173;P30050;P83731;P84098;P51116;P62891;P18077;P46779;P62917;P39023;P50914;P62910;P40429;P62987;P36578;P61513;P61313;P27635;P62888;Q92901;P35268;P62945;Q9NP64;P46776;Q96EH5;P62899;P47914;P62906;P05386;P61353;P62424;P62829;Q07020;P26373;P05387;P61927}

387 Pathogen[ P0C206] interacts with 52 human partners: {P40429;P61313;Q96L21;P27635;P18124;P49207;P30050;P50914;P62750;P18621;Q02543;Q07020;P83881;P46778;Q02878;P62910;P18077;P62913;P61927;P61353;P62888;P36578;P35268;P39023;P32969;P05386;P84098;P62945;P26373;P46777;P05388;P62899;P83731;Q92901;P05387;P42766;P61513;Q9NP64;P46776;P62906;P63173;P62987;P62891;P46779;Q96EH5;P47914;P51116;P61254;P62829;P62424;Q9Y3U8;P62917}

388 Pathogen[ P03363] interacts with 52 human partners: {P62913;P18621;P05386;P62750;P63173;P18077;P05387;P84098;P42766;P05388;P36578;P62910;P61513;P46776;P61254;P32969;Q92901;P46778;P61927;P62891;P61353;Q96L21;P26373;P83881;Q96EH5;P30050;P62829;P35268;P50914;Q9NP64;P61313;P46779;Q02543;P46777;P62987;P83731;Q9Y3U8;P62888;P62906;P62945;P49207;P62424;P62899;Q02878;P51116;Q07020;P39023;P62917;P18124;P40429;P27635;P47914}

389 [Cluster 36]GO:0030135+C cellular\_component [name] coated vesicle [def] "Small membrane-bounded organelle formed by pinching off of a coated region of membrane. Some coats are made of clathrin, whereas others are made from other proteins." [ISBN

390 Pathogen[ Q2Q067] interacts with 1 human partners: {P53675}

391 Pathogen[ P0C214] interacts with 2 human partners: {P53675;P10809}

392 Pathogen[ P03346] interacts with 1 human partners: {P53675}

393 Pathogen[ Q85601] interacts with 1 human partners: {P53675}

394 Pathogen[ P14079] interacts with 1 human partners: {P53675}

395 Pathogen[ P03383] interacts with 1 human partners: {P53675}

396 Pathogen[ P03410] interacts with 1 human partners: {P53675}

397 Pathogen[ P14075] interacts with 1 human partners: {P53675}

398 Pathogen[ P0C206] interacts with 1 human partners: {P53675}

399 Pathogen[ P03363] interacts with 1 human partners: {P53675}

400 [Cluster 37]GO:0070531+C cellular\_component [name] BRCA1-A complex [def] "A protein complex that contains the BRCA1-BARD1 heterodimer, RAP80/UIMC1, BRCC3/BRCC36, BRE/BRCC45, FAM175A/CCDC98/Abxaxas and MERIT40/NBA1, and specifically recognizes and binds K63-linked polyubiquitin chains present on histone H2A and H2AX at DNA damage sites." [GOC

401 Pathogen[ Q2Q067] interacts with 5 human partners: {Q9NWX8;Q99728;Q6UWZ7;Q9NXX7;Q96RL1}

402 Pathogen[ P0C214] interacts with 5 human partners: {Q99728;Q9NWX8;Q6UWZ7;Q96RL1;Q9NXX7}

403 Pathogen[ P03346] interacts with 5 human partners: {Q99728;Q96RL1;Q9NXX7;Q9NWX8;Q6UWZ7}

404 Pathogen[ Q85601] interacts with 5 human partners: {Q96RL1;Q99728;Q6UWZ7;Q9NWX8;Q9NXX7}

405 Pathogen[ P14079] interacts with 4 human partners: {Q6UWZ7;Q9NXX7;Q9NWX8;Q96RL1}

406 Pathogen[ P03383] interacts with 4 human partners: {Q96RL1;Q9NWX8;Q9NXX7;Q6UWZ7}

407 Pathogen[ P03410] interacts with 4 human partners: {Q96RL1;Q9NXX7;Q9NWX8;Q6UWZ7}

408 Pathogen[ P14075] interacts with 4 human partners: {Q9NWX8;Q9NXX7;Q6UWZ7;Q96RL1}

409 Pathogen[ P0C206] interacts with 5 human partners: {Q9NWX8;Q99728;Q6UWZ7;Q96RL1;Q9NXX7}

410 Pathogen[ P03363] interacts with 5 human partners: {Q96RL1;Q6UWZ7;Q9NWX8;Q9NXX7;Q99728}

411 [Cluster 38]GO:0044609+C

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412 Pathogen[ Q2Q067] interacts with 2 human partners:{Q5BKZ1;Q8N163}
413 Pathogen[ P0C214] interacts with 2 human partners:{Q5BKZ1;Q8N163}
414 Pathogen[ P03346] interacts with 2 human partners:{Q8N163;Q5BKZ1}
415 Pathogen[ Q85601] interacts with 2 human partners:{Q8N163;Q5BKZ1}
416 Pathogen[ P14079] interacts with 2 human partners:{Q8N163;Q5BKZ1}
417 Pathogen[ P03383] interacts with 2 human partners:{Q8N163;Q5BKZ1}
418 Pathogen[ P03410] interacts with 2 human partners:{Q8N163;Q5BKZ1}
419 Pathogen[ P14075] interacts with 2 human partners:{Q5BKZ1;Q8N163}
420 Pathogen[ P0C206] interacts with 2 human partners:{Q5BKZ1;Q8N163}
421 Pathogen[ P03363] interacts with 2 human partners:{Q5BKZ1;Q8N163}
422 [Cluster 39]GO:0009897+C cellular_component [name] external side of plasma membrane
[def] "The side of the plasma membrane that is opposite to the side that faces the
cytoplasm." [GOC
423 Pathogen[ Q2Q067] interacts with 2 human partners:{P27797;P14672}
424 Pathogen[ P0C214] interacts with 2 human partners:{P27797;P14672}
425 Pathogen[ P03346] interacts with 2 human partners:{P27797;P14672}
426 Pathogen[ Q85601] interacts with 2 human partners:{P27797;P14672}
427 Pathogen[ P14079] interacts with 6 human
partners:{Q9NYV7;P14672;Q96005;P08758;O75787;O14836}
428 Pathogen[ P03383] interacts with 2 human partners:{P14672;P27797}
429 Pathogen[ P03410] interacts with 4 human partners:{O75787;Q96005;O14836;P27797}
430 Pathogen[ P14075] interacts with 2 human partners:{P27797;P14672}
431 Pathogen[ P0C206] interacts with 3 human partners:{P27797;O75787;P14672}
432 Pathogen[ P03363] interacts with 2 human partners:{P27797;P14672}
433 [Cluster 40]GO:0005801+C cellular_component [name] cis-Golgi network [def] "The
network of interconnected tubular and cisternal structures located at the convex side of
the Golgi apparatus, which abuts the endoplasmic reticulum." [ISBN
434 Pathogen[ Q2Q067] interacts with 7 human
partners:{Q9UMS5;Q9P299;Q9H9H5;Q96JB2;O15155;Q86VS8;Q9Y296}
435 Pathogen[ P0C214] interacts with 8 human
partners:{Q9P299;Q9Y296;Q86VS8;Q9H9H5;Q9UMS5;P68543;Q96JB2;O15155}
436 Pathogen[ P03346] interacts with 12 human
partners:{Q9UMS5;Q9Y5R8;Q86VS8;Q96JB2;Q9P299;Q9H9H5;Q9Y296;Q9Y2L5;Q96KG9;P49755;O1515
5;P68543}
437 Pathogen[ Q85601] interacts with 9 human
partners:{Q86VS8;Q9P299;O15155;Q96JB2;Q9Y296;Q9H9H5;Q9Y2L5;Q9UMS5;Q96KG9}
438 Pathogen[ P14079] interacts with 17 human
partners:{Q9Y296;O75072;Q86VS8;Q9H9H5;O15155;P33947;O00461;P24390;P49755;Q9P299;P6854
3;Q9H6L5;Q9Y5R8;Q96JB2;Q9UMS5;Q96KG9;Q9Y2L5}
439 Pathogen[ P03383] interacts with 5 human
partners:{Q9UMS5;Q96JB2;Q9Y296;Q9H9H5;Q86VS8}
440 Pathogen[ P03410] interacts with 16 human
partners:{Q9Y2L5;Q96JB2;Q9P299;P68543;Q9UMS5;P33947;Q9H6L5;Q86VS8;Q9Y5R8;O00461;O9524
9;Q9H9H5;Q96KG9;O15155;P24390;Q9Y296}
441 Pathogen[ P14075] interacts with 6 human
partners:{Q96JB2;Q9UMS5;O00461;Q9H9H5;Q86VS8;Q9Y296}
442 Pathogen[ P0C206] interacts with 16 human
partners:{Q9Y296;Q9UMS5;Q9P299;Q9Y2L5;Q9H6L5;P49755;Q96JB2;P68543;Q96KG9;Q86VS8;O1515
5;P33947;O00461;P24390;Q9Y5R8;Q9H9H5}
443 Pathogen[ P03363] interacts with 8 human
partners:{Q86VS8;Q9UMS5;Q9Y2L5;Q9P299;Q96KG9;Q9Y296;Q9H9H5;Q96JB2}
444 [Cluster 41]GO:0005689+C cellular_component [name] U12-type spliceosomal complex
[def] "Any spliceosomal complex that forms during the splicing of a messenger RNA primary
transcript to excise an intron_ the series of U12-type spliceosomal complexes is involved
in the splicing of the majority of introns that contain atypical AT-AC terminal
dinucleotides, as well as other non-canonical introns. The entire splice site signal, not
just the terminal dinucleotides, is involved in determining which spliceosome utilizes
the site." [GOC
445 Pathogen[ Q2Q067] interacts with 18 human
partners:{P67809;P62318;Q13435;Q15696;Q9BWJ5;Q9UDW3;Q9BV90;P62314;P62304;P14678;O7553
3;Q7RTV0;Q15427;Q8N8D1;P62316;Q6IEG0;P62306;P62308}
446 Pathogen[ P0C214] interacts with 18 human
partners:{P62316;Q6IEG0;Q9UDW3;P14678;P62306;P67809;Q9BWJ5;P62308;P62314;Q15696;Q8N8D
1;Q15427;Q7RTV0;P62318;O75533;P62304;Q13435;Q9BV90}
447 Pathogen[ P03346] interacts with 19 human
partners:{Q15427;Q9BV90;Q7RTV0;P62304;P62318;P67809;Q13435;P62306;O75533;Q9UDW3;Q9BWJ
5;P62314;P14678;P62316;Q15696;Q8N8D1;P62308;Q15393;Q6IEG0}
448 Pathogen[ Q85601] interacts with 15 human
partners:{Q7RTV0;P62304;Q8N8D1;P62316;P14678;Q13435;P62314;P62306;P62318;P67809;Q9UDW
3;P62308;Q15696;Q9BWJ5;Q6IEG0}
449 Pathogen[ P14079] interacts with 16 human
partners:{P67809;Q8N8D1;O75533;Q6IEG0;P62314;Q15427;P62306;P14678;Q9BWJ5;Q7RTV0;P6230
8;Q15696;P62304;P62316;Q9UDW3;P62318}
450 Pathogen[ P03383] interacts with 13 human
partners:{P62318;P62316;P62304;Q13435;P62314;P14678;Q6IEG0;P62308;P67809;Q8N8D1;Q7RTV
0;Q9BWJ5;P62306}

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451 Pathogen[ P03410] interacts with 19 human  
partners:{Q15427;Q9BWJ5;Q9UDW3;P62304;Q15696;P62306;Q6IEG0;Q15393;P62308;P14678;P6231  
6;P67809;P62314;O75533;Q7RTV0;Q9BV90;Q8N8D1;Q13435;P62318}

452 Pathogen[ P14075] interacts with 13 human  
partners:{P62304;P62316;P62306;P62308;Q13435;Q8N8D1;P62318;P67809;Q9BWJ5;P14678;P6231  
4;Q6IEG0;Q7RTV0}

453 Pathogen[ P0C206] interacts with 17 human  
partners:{Q6IEG0;Q9BV90;P67809;P14678;Q15696;P62304;O75533;P62314;P62316;Q13435;Q9BWJ  
5;Q8N8D1;P62318;Q7RTV0;P62306;P62308;Q9UDW3}

454 Pathogen[ P03363] interacts with 22 human  
partners:{P62314;Q13435;Q9BV90;Q15393;O75533;Q7RTV0;P62318;Q8N8D1;Q15427;P62304;P6230  
6;Q9Y3B4;Q9BWJ5;P62316;Q9UDW3;Q96LT9;P62308;P14678;Q16560;Q15696;Q6IEG0;P67809}

455 [Cluster 42]GO:0031234+C cellular\_component [name] extrinsic to internal side of  
plasma membrane [def] "Loosely bound to the surface of the plasma membrane that faces the  
cytoplasm, but not integrated into the hydrophobic region." [GOC

456 Pathogen[ Q2Q067] interacts with 2 human partners:{P78352;Q9UJM3}

457 Pathogen[ P0C214] interacts with 3 human partners:{Q9UJM3;P78352;Q00536}

458 Pathogen[ P03346] interacts with 4 human partners:{Q00536;P78352;P06703;Q9UJM3}

459 Pathogen[ Q85601] interacts with 4 human partners:{Q00536;Q9NQC7;P78352;Q9UJM3}

460 Pathogen[ P14079] interacts with 3 human partners:{Q9UJM3;P06703;Q9NQC7}

461 Pathogen[ P03383] interacts with 3 human partners:{Q9UJM3;Q00536;P78352}

462 Pathogen[ P03410] interacts with 3 human partners:{P06703;P78352;Q9UJM3}

463 Pathogen[ P14075] interacts with 2 human partners:{Q9UJM3;P78352}

464 Pathogen[ P0C206] interacts with 5 human  
partners:{Q9NQC7;P78352;Q00536;Q9UJM3;P06703}

465 Pathogen[ P03363] interacts with 3 human partners:{P78352;Q9UJM3;Q00536}

466 [Cluster 43]GO:0005956+C cellular\_component [name] protein kinase CK2 complex [def]  
"A protein complex that possesses protein serine/threonine kinase activity, and contains  
two catalytic alpha subunits and two regulatory beta subunits. Protein kinase CK2  
complexes are found in nearly every subcellular compartment, and can phosphorylate many  
protein substrates in addition to casein." [GOC

467 Pathogen[ Q2Q067] interacts with 1 human partners:{P67870}

468 Pathogen[ P0C214] interacts with 1 human partners:{P67870}

469 Pathogen[ P03346] interacts with 1 human partners:{P67870}

470 Pathogen[ Q85601] interacts with 1 human partners:{P67870}

471 Pathogen[ P14079] interacts with 1 human partners:{P67870}

472 Pathogen[ P03383] interacts with 1 human partners:{P67870}

473 Pathogen[ P03410] interacts with 1 human partners:{P67870}

474 Pathogen[ P14075] interacts with 1 human partners:{P67870}

475 Pathogen[ P0C206] interacts with 1 human partners:{P67870}

476 Pathogen[ P03363] interacts with 1 human partners:{P67870}

477 [Cluster 44]GO:0070188+C cellular\_component [name] Stn1-Ten1 complex [def] "A  
nuclear telomere cap complex that is formed by the association of the Stn1 and Ten1  
proteins with telomeric DNA\_ in some species a third protein is present." [GOC

478 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9H668;Q2NKJ3;Q86WV5}

479 Pathogen[ P0C214] interacts with 3 human partners:{Q86WV5;Q9H668;Q2NKJ3}

480 Pathogen[ P03346] interacts with 3 human partners:{Q86WV5;Q9H668;Q2NKJ3}

481 Pathogen[ Q85601] interacts with 3 human partners:{Q86WV5;Q2NKJ3;Q9H668}

482 Pathogen[ P14079] interacts with 3 human partners:{Q9H668;Q86WV5;Q2NKJ3}

483 Pathogen[ P03383] interacts with 2 human partners:{Q86WV5;Q2NKJ3}

484 Pathogen[ P03410] interacts with 3 human partners:{Q9H668;Q86WV5;Q2NKJ3}

485 Pathogen[ P14075] interacts with 3 human partners:{Q2NKJ3;Q86WV5;Q9H668}

486 Pathogen[ P0C206] interacts with 3 human partners:{Q2NKJ3;Q86WV5;Q9H668}

487 Pathogen[ P03363] interacts with 3 human partners:{Q86WV5;Q9H668;Q2NKJ3}

488 [Cluster 45]GO:0034451+C cellular\_component [name] centriolar satellite [def] "A  
small (70-100 nm) cytoplasmic granule that contains a number of centrosomal proteins\_  
centriolar satellites traffic toward microtubule minus ends and are enriched near the  
centrosome." [GOC

489 Pathogen[ Q2Q067] interacts with 6 human  
partners:{P05062;Q96NB1;Q9UPT5;Q86VS8;P05783;Q15154}

490 Pathogen[ P0C214] interacts with 6 human  
partners:{Q15154;P05783;Q9UPT5;P05062;Q86VS8;Q96NB1}

491 Pathogen[ P03346] interacts with 6 human  
partners:{Q9UPT5;P05783;Q86VS8;Q15154;P05062;Q96NB1}

492 Pathogen[ Q85601] interacts with 6 human  
partners:{Q9UPT5;Q15154;Q86VS8;P05062;P05783;Q96NB1}

493 Pathogen[ P14079] interacts with 5 human  
partners:{Q86VS8;Q9UPT5;P05783;Q15154;Q96NB1}

494 Pathogen[ P03383] interacts with 5 human  
partners:{P05783;Q96NB1;Q15154;Q86VS8;Q9UPT5}

495 Pathogen[ P03410] interacts with 6 human  
partners:{Q9UPT5;Q96NB1;Q15154;Q86VS8;P05062;P05783}

496 Pathogen[ P14075] interacts with 5 human  
partners:{P05783;Q96NB1;Q15154;Q86VS8;Q9UPT5}

497 Pathogen[ P0C206] interacts with 6 human  
partners:{P05062;Q86VS8;Q9UPT5;P05783;Q15154;Q96NB1}

498 Pathogen[ P03363] interacts with 5 human  
partners:{P05783;Q86VS8;Q96NB1;Q15154;Q9UPT5}

499 [Cluster 46]GO:0016939+C cellular\_component [name] kinesin II complex [def] "A complex consisting of two distinct motor subunits that form a heterodimer complexed with a third non-motor accessory subunit, the kinesin associated protein or KAP\_ the KIF3 heterodimer interacts via its C-terminal portion with KAP, which is thought to regulate the binding of the motor to cargo membranes." [http

500 Pathogen[ Q2Q067] interacts with 1 human partners:{Q92845}

501 Pathogen[ P0C214] interacts with 1 human partners:{Q92845}

502 Pathogen[ P03346] interacts with 1 human partners:{Q92845}

503 Pathogen[ Q85601] interacts with 1 human partners:{Q92845}

504 Pathogen[ P14079] interacts with 2 human partners:{O15066;Q92845}

505 Pathogen[ P03383] interacts with 1 human partners:{Q92845}

506 Pathogen[ P03410] interacts with 1 human partners:{Q92845}

507 Pathogen[ P14075] interacts with 1 human partners:{Q92845}

508 Pathogen[ P0C206] interacts with 1 human partners:{Q92845}

509 Pathogen[ P03363] interacts with 2 human partners:{Q92845;O15066}

510 [Cluster 47]GO:0009841+C cellular\_component [name] mitochondrial endopeptidase Clp complex [def] "A Clp endopeptidase complex located in the mitochondrion." [GOC

511 Pathogen[ Q2Q067] interacts with 1 human partners:{O76031}

512 Pathogen[ P0C214] interacts with 1 human partners:{O76031}

513 Pathogen[ P03346] interacts with 1 human partners:{O76031}

514 Pathogen[ Q85601] interacts with 1 human partners:{O76031}

515 Pathogen[ P14079] interacts with 1 human partners:{O76031}

516 Pathogen[ P03383] interacts with 1 human partners:{O76031}

517 Pathogen[ P03410] interacts with 1 human partners:{O76031}

518 Pathogen[ P14075] interacts with 1 human partners:{O76031}

519 Pathogen[ P0C206] interacts with 1 human partners:{O76031}

520 Pathogen[ P03363] interacts with 1 human partners:{O76031}

521 [Cluster 48]GO:0005811+C cellular\_component [name] lipid particle [def] "Any particle of coalesced lipids in the cytoplasm of a cell. May include associated proteins." [GOC

522 Pathogen[ Q2Q067] interacts with 6 human  
partners:{O60664;O60543;Q96CS3;Q96AQ7;P04406;P27469}

523 Pathogen[ P0C214] interacts with 9 human  
partners:{P27469;O60543;P34932;Q8WXG1;Q96CS3;Q96Q06;O60664;Q96AQ7;P04406}

524 Pathogen[ P03346] interacts with 7 human  
partners:{O60664;P04406;Q96CS3;P27469;Q96AQ7;P34932;O60543}

525 Pathogen[ Q85601] interacts with 8 human  
partners:{O60664;Q96CS3;Q96Q06;P27469;O60543;P34932;P04406}

526 Pathogen[ P14079] interacts with 9 human  
partners:{P27469;O60664;O60543;Q96CS3;Q96AQ7;Q96Q06;Q99541;Q8WXG1;P04406}

527 Pathogen[ P03383] interacts with 7 human  
partners:{O60543;P27469;Q96AQ7;Q96CS3;P04406;Q96Q06;O60664}

528 Pathogen[ P03410] interacts with 9 human  
partners:{Q96AQ7;Q96Q06;O60664;Q8WXG1;P27469;P04406;Q00G26;Q96CS3;O60543}

529 Pathogen[ P14075] interacts with 7 human  
partners:{Q96CS3;Q96AQ7;P04406;O60543;Q96Q06;P27469;O60664}

530 Pathogen[ P0C206] interacts with 9 human  
partners:{O60664;P34932;P04406;Q96AQ7;P27469;O60543;Q96Q06;Q8WXG1;Q96CS3}

531 Pathogen[ P03363] interacts with 7 human  
partners:{O60543;Q96AQ7;O60664;Q96CS3;P34932;P04406;P27469}

532 [Cluster 49]GO:0005875+C cellular\_component [name] microtubule associated complex [def] "Any multimeric complex connected to a microtubule." [GOC

533 Pathogen[ Q2Q067] interacts with 14 human  
partners:{P78559;O75935;P63167;O00423;O95793;P49356;Q92624;Q96S59;P49354;Q14244;Q96FJ2;Q15121;Q66K74;P27816}

534 Pathogen[ P0C214] interacts with 14 human  
partners:{P49354;O75935;Q92624;Q15121;O00423;P27816;Q14244;P49356;Q96S59;P78559;O95793;Q96FJ2;Q66K74;P63167}

535 Pathogen[ P03346] interacts with 16 human  
partners:{O95166;Q96FJ2;O75935;Q66K74;O95793;P49354;O00423;P49356;Q96S59;Q15121;P78559;P11137;P27816;Q14244;P63167;Q92624}

536 Pathogen[ Q85601] interacts with 17 human  
partners:{P61163;P27816;O95166;Q14244;O75935;O95793;Q66K74;Q15121;O96015;Q92624;P49354;O00423;Q96S59;P49356;P78559;Q9GZM8;P63167}

537 Pathogen[ P14079] interacts with 23 human  
partners:{O95166;O95793;O15553;Q96FJ2;P49354;Q66K74;Q92624;Q14244;O00423;P56715;P78559;Q15121;P49356;P61163;Q9GZM8;P63167;P49023;P11137;O96015;Q96S59;O75935;P27816;P10636}

538 Pathogen[ P03383] interacts with 9 human  
partners:{Q14244;Q96FJ2;Q15121;P27816;Q96S59;O75935;P78559;Q92624;P63167}

539 Pathogen[ P03410] interacts with 21 human  
partners:{P49354;Q15121;P11137;P27816;Q9GZM8;P49356;Q96S59;P63167;P61163;O95166;O60333;Q92624;O75935;Q66K74;P78559;P10636;O95793;O00423;Q14244;P56715;O96015}

540 Pathogen[ P14075] interacts with 9 human

541 partners:{P78559;Q92624;Q96S59;Q96FJ2;O75935;Q15121;P27816;P63167;Q14244}  
Pathogen[ POC206] interacts with 21 human  
partners:{P56715;Q15121;P63167;P78559;P10636;P49354;Q9GZM8;Q66K74;Q92624;P61163;Q1424  
4;P11137;P27816;O95793;Q96S59;O75935;P49356;O00423;Q9BW19;O96015;O95166}

542 Pathogen[ P03363] interacts with 19 human  
partners:{Q9UDT6;P11137;Q14244;P56715;P63167;Q66K74;P78559;O95793;P49354;Q15121;O0042  
3;P61163;P27816;O75935;Q92624;O60333;Q96S59;O95166;Q96FJ2}

543 [Cluster 50]GO:0071204+C cellular\_component [name] histone pre-mRNA 3'end processing  
complex [def] "A ribonucleoprotein that binds to specific sites in, and is required for  
cleavage of, the 3'-end of histone pre-mRNAs. The complex contains the U7 snRNP and  
additional proteins, including the stem-loop binding protein (SLBP) and the exonuclease  
3'hExo/Eri-1." [GOC  
544 Pathogen[ Q2Q067] interacts with 5 human  
partners:{P83369;P67809;O60506;P14678;Q14493}  
545 Pathogen[ POC214] interacts with 6 human  
partners:{P83369;P14678;P67809;Q14493;Q8IV48;O60506}  
546 Pathogen[ P03346] interacts with 5 human  
partners:{O60506;Q14493;P67809;P83369;P14678}  
547 Pathogen[ Q85601] interacts with 5 human  
partners:{O60506;P14678;P67809;P83369;Q14493}  
548 Pathogen[ P14079] interacts with 6 human  
partners:{Q8IV48;P67809;P83369;P14678;O60506;Q14493}  
549 Pathogen[ P03383] interacts with 4 human partners:{Q14493;P14678;P83369;P67809}  
550 Pathogen[ P03410] interacts with 6 human  
partners:{Q8IV48;Q14493;P14678;P67809;P83369;O60506}  
551 Pathogen[ P14075] interacts with 4 human partners:{Q14493;P83369;P67809;P14678}  
552 Pathogen[ POC206] interacts with 6 human  
partners:{P67809;P14678;Q8IV48;P83369;O60506;Q14493}  
553 Pathogen[ P03363] interacts with 5 human  
partners:{P83369;O60506;Q14493;P14678;P67809}

554 [Cluster 51]GO:0008278+C cellular\_component [name] cohesin complex [def] "A protein  
complex that is required for sister chromatid cohesion in eukaryotes. The cohesin complex  
forms a molecular ring complex, and is composed of structural maintenance of chromosomes  
(SMC) and kleisin proteins. For example, in yeast, the complex is composed of the SMC  
proteins Smc1p and Smc3p, and the kleisin protein Scclp. In vertebrates, the complex is  
composed of the SMC1 (SMC1A or SMC1B) and SMC3 heterodimer attached via their hinge  
domains to a kleisin (RAD21, REC8 or RAD21L) which links them, and one STAG protein  
(STAG1, STAG2 or STAG3)." [GOC  
555 Pathogen[ Q2Q067] interacts with 3 human partners:{Q7Z5K2;O60216;Q96FF9}  
556 Pathogen[ POC214] interacts with 3 human partners:{Q96FF9;Q7Z5K2;O60216}  
557 Pathogen[ P03346] interacts with 3 human partners:{Q96FF9;Q7Z5K2;O60216}  
558 Pathogen[ Q85601] interacts with 3 human partners:{O60216;Q7Z5K2;Q96FF9}  
559 Pathogen[ P14079] interacts with 4 human partners:{Q96FF9;O60216;Q9UQE7;Q7Z5K2}  
560 Pathogen[ P03383] interacts with 3 human partners:{O60216;Q96FF9;Q7Z5K2}  
561 Pathogen[ P03410] interacts with 4 human partners:{Q9UQE7;Q7Z5K2;O60216;Q96FF9}  
562 Pathogen[ P14075] interacts with 3 human partners:{Q96FF9;Q7Z5K2;O60216}  
563 Pathogen[ POC206] interacts with 4 human partners:{O60216;Q7Z5K2;Q96FF9;Q9UQE7}  
564 Pathogen[ P03363] interacts with 3 human partners:{Q96FF9;Q7Z5K2;O60216}

565 [Cluster 52]GO:0016327+C cellular\_component [name] apicolateral plasma membrane [def]  
"The apical end of the lateral plasma membrane of epithelial cells." [GOC  
566 Pathogen[ Q2Q067] interacts with 1 human partners:{Q07157}  
567 Pathogen[ POC214] interacts with 1 human partners:{Q07157}  
568 Pathogen[ P03346] interacts with 3 human partners:{O75970;Q7Z3G6;Q07157}  
569 Pathogen[ Q85601] interacts with 1 human partners:{Q07157}  
570 Pathogen[ P14079] interacts with 5 human  
partners:{O75781;Q07157;Q7Z3G6;Q16625;O75970}  
571 Pathogen[ P03383] interacts with 1 human partners:{Q07157}  
572 Pathogen[ P03410] interacts with 4 human partners:{O75781;O75970;Q07157;Q16625}  
573 Pathogen[ P14075] interacts with 1 human partners:{Q07157}  
574 Pathogen[ POC206] interacts with 2 human partners:{Q7Z3G6;Q07157}  
575 Pathogen[ P03363] interacts with 2 human partners:{O75970;Q07157}

576 [Cluster 53]GO:0005829+C cellular\_component [name] cytosol [def] "The part of the  
cytoplasm that does not contain organelles but which does contain other particulate  
matter, such as protein complexes." [GOC  
577 Pathogen[ Q2Q067] interacts with 1028 human  
partners:{Q92783;Q86W56;Q96S95;P02792;P49454;P23588;Q92900;P05198;Q14974;O43290;P6131  
3;Q9BU02;Q9Y5K5;P30153;Q4G0F5;Q8NH2;Q96EE3;Q01082;Q99460;O15027;Q96J02;Q99613;Q9UL45  
;P62701;P22392;P46108;O75351;Q96HA8;O00425;O75161;Q04864;O75832;Q16236;P48556;O94973;  
O15234;P09917;P62633;P10746;Q96N21;P49458;Q96H22;P47914;P23381;Q6VN20;Q8IU60;P31749;P  
52948;Q92890;P35754;Q71F23;Q7LBR1;P40306;Q14258;P62312;Q93034;Q14008;P42773;Q9Y333;Q1  
2769;P46779;O00186;Q9H008;O14786;O14744;Q9Y6K5;Q9Y6D6;Q9Y6Q5;Q8IUC6;P56524;Q93009;Q9N  
QT4;Q96NU7;P55036;P07741;Q10567;Q9NR28;Q9UPR3;P10827;Q9NVM4;Q9HAU4;P55957;P24385;Q7Z6  
J0;P56377;P78559;O00303;Q9Y266;P49591;P07195;P63104;Q9UII4;Q9Y3F4;Q96RT8;O43747;Q9UD7  
1;O95782;Q9P209;P07196;Q14315;O60841;Q9H444;Q8IY63;Q9NPNB6;O95433;Q96LI5;Q96B97;Q14980  
;Q02543;P61326;O60784;P30419;O00231;Q8IZH2;Q7L9L4;P26373;O00233;P29692;Q9UJX3;Q9UJX5;  
P41220;P49792;O95684;P40763;Q9UBQ5;P62750;Q0VDF9;Q08209;Q8IZD4;Q9BRV8;Q13352;O14579;P

47813;P62258;Q96JZ2;Q9BYG5;Q7Z460;P63151;P46937;Q14690;P62273;Q12982;Q13485;P13929;P09913;Q9BRA2;Q9Y285;Q3LI64;P62837;P51665;P55735;Q9Y2L1;Q9Y3C4;O95997;Q9NPI6;Q6IPU0;Q86TX2;P62318;P62826;Q99741;Q6XQN6;Q9BQA1;A5YKK6;O95295;Q9HCK5;Q6VY07;Q99497;P15880;P40429;O60260;P30793;Q9H074;Q9UDY8;Q9BXL1;Q06265;Q9NUP1;P28072;Q96JI7;Q9UBB6;P09132;Q9P0M2;Q14684;P60660;Q96F86;Q8WYR4;P57076;Q075807;Q43805;P46782;Q14204;Q7Z7A3;Q000762;Q9HAB8;Q9Y244;Q9H0F6;P61457;O43255;Q92985;P35268;Q9Y6M1;Q6P1K2;Q9HBM1;Q9NZZ8;P49419;P08151;P15121;Q15653;Q9H211;O14618;Q96TA1;Q16082;Q9BRG1;Q01105;Q9UJW0;P24534;O75935;O00273;P19367;Q7Z7A1;O00743;Q9NRN7;P22090;Q15046;Q04206;P36543;P49770;Q15181;Q8WYP5;P46778;O95336;P61981;Q9H3R5;P50502;Q9UK45;Q96C86;Q00994;Q8NHV4;P30279;P05062;Q13868;Q12933;O43639;Q9NSD9;Q5T1C6;Q96B36;P26641;Q9NYJ8;Q13547;Q6PI26;Q9UP83;P08238;P38919;P63167;Q14103;P55345;A5LHX3;Q01201;P34949;Q9UBU9;P60604;Q5FBB7;P49450;P62888;Q53FT3;P39880;Q8N9V7;Q13257;Q86XR8;Q6QNY0;O43617;Q96AQ6;Q8N2Z9;O00204;Q8IZP0;P32969;O95999;P14316;P61970;P62277;Q99567;P56945;Q99933;P07900;Q96EV8;Q9H171;Q9HC77;Q9UPV0;Q03188;O60318;Q6NZI2;Q15633;O14757;P49789;Q9NVX0;Q9UER7;P62241;Q66LE6;Q9NXR1;P14136;Q13200;Q13432;A8K8P3;P62244;O15350;P05387;Q8TDY2;Q96GX9;Q92945;P48444;P02511;P57075;P25787;P37837;Q14152;P62861;P08107;Q53HL2;O14896;P42766;Q06323;O00401;Q96SN8;P67775;O43684;Q8NBT2;Q14934;Q5JTC6;P04792;Q8N5D0;Q13158;P05386;O75175;O15117;Q13415;Q9P258;Q9Y3B2;Q49B96;Q9NPD3;Q9NVK5;Q9NYG5;Q86TB9;Q8NFH4;Q00978;Q63HML;Q8NFI3;P30304;Q9BZI7;Q13794;P63241;Q9H1A4;P35573;Q14790;Q92973;Q14749;Q9NZC7;P51965;Q14240;Q9UNX3;Q5BJF6;Q504Q3;P05413;Q00597;O95394;P60174;O75531;Q5JTW2;P30050;P63010;Q9BV57;P57721;Q96PC3;P54105;Q9Y3E5;P80217;Q9BZE9;P36871;Q5EBL4;Q96LW7;Q9UBB4;O43776;Q9UJW3;P28065;Q99873;P32189;O14818;P61077;P07902;P14635;P26196;O00170;Q96AQ7;Q96QF0;Q9BUX1;P18077;O75886;Q8IXH6;P62891;Q8TEP8;P62314;Q8IX03;Q13541;P11142;Q9NQS7;Q14203;Q8N5C8;Q9Y5B6;Q9HAU5;Q96IF1;Q13112;Q96CW1;Q9UJX2;P27797;Q9UQL6;Q9HTC4;O43524;Q16851;Q9BU89;P61923;Q12959;Q9Y297;P61927;Q9NRG4;Q5RKV6;Q8WXC3;P60520;Q99966;Q9ULE6;O15162;P39023;Q15173;Q13469;Q9UMX2;O43264;Q14CS0;Q9UHI6;P11532;P62081;P61247;Q8WUM4;P62304;P62714;Q96L92;O14980;Q9UHB9;Q9UIV1;P61254;Q99743;Q9UI10;Q07157;P59047;Q9H8S9;P17987;P62249;Q8IYB3;P30307;P20073;Q92674;Q99608;O14508;Q05084;O15131;Q9P243;Q9UM13;P62280;Q14997;P62328;P83731;O00471;Q9BYV8;P40337;Q9BW27;Q96M53;Q92748;Q96BT3;Q8NHQ1;O14867;Q86V81;P48788;Q6PGN9;Q13561;Q96G03;P31350;Q66GS9;Q6GPH4;P60900;P46976;Q96MT3;Q9BPZ7;Q9UL46;Q9BZD4;Q14653;P67870;Q9Y6N9;P34896;P61289;Q15306;P62263;Q86US8;Q15370;Q9UNN5;Q9Y4X5;O43303;Q8N1I0;Q9HCC9;Q00610;Q96S59;P84022;P61966;Q9UKZ1;Q96RT7;Q8WYR1;Q16222;P60866;O14641;P62906;Q9NXV2;Q9NSP4;P55212;P68871;P10914;P41252;Q92539;A9QM74;Q15102;Q15024;O14933;P09972;O14862;Q12834;P54840;P53992;Q9Y6K9;O95628;P36873;P51668;Q96FQ6;Q9H0W8;Q14232;Q92843;Q15468;Q9NQ4;Q02878;P46777;Q8TAT6;Q9BVC4;O95486;P50748;P28062;Q12904;O00255;P62899;O15105;Q13114;P78344;P15559;O14713;O75496;P06396;Q9BQ90;Q9NR50;Q9UMS0;O95644;P24864;Q9GZV5;P09467;Q13127;Q5TBC7;O95067;P18669;P08708;Q9BSJ2;O43541;Q9NSA3;Q9Y2V2;Q9BV20;Q53EL6;Q16719;P29474;P50991;Q9UNM6;Q9Y2N7;P08865;Q9UBW7;Q9NWT6;Q07020;Q96LC9;Q9UDY2;Q9NXT7;Q9H9G7;P62913;P25788;Q92529;O94855;Q9HD36;Q13233;Q8WXD5;P62269;P60228;P42575;Q13426;Q6RSH7;P42025;P57077;Q9BUL8;P62136;Q96PU5;Q13616;Q99618;P13807;Q96MT8;Q9UILL1;Q92530;Q9UQ10;Q15078;Q9NVD7;P50613;P07814;Q8IW19;O15198;P14678;Q9UN37;Q9Y5S9;Q14677;P49354;O95810;Q15327;Q96H20;P62424;P04406;O15164;P49366;P61088;Q9H0R1;P35869;P25786;Q9UFF9;P62917;Q9Y2J4;Q16543;Q13094;Q96RS0;Q8TEQ6;Q9Y4L5;P62829;Q9NZZ3;P78396;P20962;Q15185;O15116;Q9H410;P46783;Q8IYD1;Q96DG6;O60291;P99999;P10599;Q8NFH3;O00505;Q9BXS5;A6NK89;Q7Z465;Q9H0B6;P53041;Q99996;P57678;Q8NHZ8;P62495;Q9UK41;P38936;P40925;Q15796;O75475;P36578;Q15369;P50570;Q02241;Q9UKV8;O75665;Q9C0C2;P62857;P69905;Q15366;O96020;Q16401;O00139;O96007;Q9NRA8;Q9HAV4;P16333;Q02556;P09914;Q53G26;P15259;Q99543;Q7L5D6;P50453;Q96FA3;O94986;Q9UQF2;Q9UKV3;O75122;Q9H4A6;O00232;Q13309;P54920;Q9UN36;P62847;Q07866;P19838;Q96RU7;O75143;Q9Y3E7;O75436;O75822;Q96QK1;Q9Y697;Q99962;Q8NG31;O43504;P49207;Q9UFN0;Q13228;Q9UM11;Q13144;P23258;Q13155;Q86VP1;Q96CF2;P23396;Q9H6Z9;Q9UJX4;Q09161;Q12968;P28074;P53618;P54136;P25789;Q93008;Q92540;P52630;O00629;Q9HCE1;O15504;Q9Y6D9;P21399;P35813;P42768;Q9UKT4;Q8NFZ5;P25963;P0CG47;P20042;O60573;P57740;P06744;Q96BD8;P04818;Q9H900;O14920;P11441;O75688;P63173;P18621;Q9NZN8;P31946;Q9UKN5;Q6ULP2;P13647;Q9C000;P41208;P52292;Q5HYK7;Q5JVS0;Q96Y1;P52298;Q9BPX1;Q9BYX4;P20618;P45984;Q15628;Q13642;P42771;P17096;Q9NP79;O95817;Q9UNE7;Q04724;P48147;O95831;Q86SQ7;O60763;O94925;Q00653;Q15833;P0CG48;P49459;O75791;P60953;O60504;O14556;P40855;Q13409;P62316;O43318;Q92600;Q495M9;Q9GZT9;O95487;Q9HA77;Q9H4B6;Q9UHD4;O43633;O14964;Q9Y4P8;P00338;Q9NUS5;P27986;Q05086;Q9NP71;P28070;P39019;Q92844;Q14493;Q8WUM0;Q01860;P28066;P63000;Q9BZR8;Q03393;P41250;Q9UGJ1;P35579;Q8IXQ6;O95613;Q9UL18;P35606;Q96FJ2;P61353;Q92845;P14324;O15371;Q04637;P30305;Q86WI3;Q99436;Q9GZV4;Q9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Pathogen[ P0C214] interacts with 1204 human partners: {P62861;P80217;P22681;Q9Y316;Q8IW19;P06132;Q05086;P41250;O14933;Q04446;Q9H7C

578

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579

Pathogen { P03346 } interacts with 1172 human

partners: { P08107;Q9UPR3;Q9Y6N9;P02792;Q13596;Q6P3S1;Q66LE6;Q96G01;Q15833;Q13588;Q9Y5S9;P62136;O00204;P54105;Q9Y6D9;P21283;Q9BZI7;Q86UT5;P25787;Q9BTM9;Q9Y6X9;Q8N2Z9;Q9Y6K9;Q86YV9;Q96J02;P59047;P23381;Q96AC1;P05387;P05412;Q4G0F5;P46779;P61966;Q5RKV6;P09972;P55735;Q7Z7A1;Q5FBB7;O15234;Q9NRX4;P28070;Q96FJ2;P46937;Q15370;Q504Q3;Q9UML6;O00743;Q96QK1;Q06520;P78396;O60346;Q6RSH7;Q8NFH4;Q9UBB4;Q99698;O75608;P45984;Q93009;Q8WUM0;Q9P0M2;O00629;Q96B97;Q09161;P10827;P35813;P63173;O15524;P25789;P55036;Q96N21;P50570;P02549;P06730;P62917;Q16082;Q9UJW0;P13807;O14908;P07196;P62249;P62913;Q9HAU4;Q9UPT5;O15111;Q15366;O95229;P60660;Q9HAV4;Q9Y2Z0;Q96MP8;O15027;O43290;P55273;O14576;Q99966;P24385;Q7L2Z9;Q01201;Q96FQ6;P62861;Q9NSV4;Q14315;P80303;P04406;P50452;Q96S95;P07900;P30279;Q13228;Q9NRN7;Q8IYB3;Q9NPI6;P62277;Q02878;Q9UDY2;P41091;O95149;Q96PU5;Q99873;Q14258;Q86XR8;Q9UP83;O00471;P49247;Q9UBK8;Q12769;Q14671;P47813;Q8N2Y8;Q9BUX1;Q5JTW2;Q3LI64;O15392;O43684;P98171;O95684;Q12840;Q99460;Q9UM11;Q9UH77;Q86US8;Q96EE3;Q8IWL9;Q9UUV1;Q99567;Q99543;Q9UBQ5;Q13616;P29474;Q96C86;O75175;P62633;Q15036;P05413;Q9GZV4;Q9BS16;P63010;P23526;O60716;Q9UL46;O43639;O75531;Q9BRA2;Q9Y2V2;P62280;P39023;P23258;Q9H9A5;Q8WYR1;P14625;P50502;Q9BQA1;Q96RT8;Q96LC9;O75901;Q9BV20;P07148;Q7Z6J0;P62304;O95295;Q9BPU9;P11277;P20073;Q93008;P13929;P84101;O43747;P42768;P62987;P61927;P62987;P28072;Q13158;Q92674;Q9Y5K8;Q9UUL1;P25963;Q9UKZ1;Q7Z465;Q9NR28;P35579;Q9ULP0;Q9Y6M1;P62857;O75143;O00425;P25788;P62736;O95336;Q9BVC4;P60520;Q9H171;P53680;Q96M53;P49754;Q8IZP0;P28074;Q15797;Q9GZV5;P49721;Q8NFZ5;Q13541;Q15154;Q15653;Q9Y4Y9;O75935;Q9UHB4;Q96AQ6;Q01105;Q13347;Q9NZL9;Q9BV57;O00139;Q9UDY8;Q9BRV8;P07814;O60841;Q8NHY2;Q9UFN0;Q9H9G7;Q9BXP1;P57740;Q15691;Q9BPZ7;Q96JI7;O96020;Q8IUD6;O95628;Q13322;P02100;P42575;Q9H4A6;P56377;Q99962;P14316;O14818;Q9UL18;P51580;Q8WYP5;P46778;P49207;P62258;Q8N5X7;Q8NHV4;Q9NRR5;Q9NQP4;Q99436;Q96A56;Q9UMX2;P24941;Q96FS4;Q13426;P55957;Q15633;Q6PI26;P30304;Q9H814;P62937;Q9Y6D5;P42772;P35237;Q15149;P0CG48;P78371;P62266;Q9H1K1;Q9NZI8;O75886;Q8IV53;Q8WXD5;Q15796;Q9BXS5;Q9UII4;O75475;Q15185;O14744;P56524;Q16401;Q15327;Q9HOR1;Q9H4P4;A5LHX3;P19367;Q9ULE6;P15121;Q9HC77;P60709;P26641;Q63HM1;P78344;O60318;P36543;Q9NVK5;Q9UMS0;P49789;O43255;P61254;O14757;Q66K74;P10746;Q9Y678;P38919;O60573;O43264;P62495;Q04206;P18054;Q12802;O95782;Q49B96;Q9NTX7;O00170;Q9NXR1;P24864;Q53HL2;P53618;P14136;Q9UQC2;P98170;Q9NZD8;Q9P209;Q9NXV2;Q16222;P11142;Q9UM13;P02794;Q8TDY2;Q9NRP6;Q15056;P60174;P28062;Q96IF1;P57075;Q86VN1;P11940;Q8IX03;P60953;P42226;Q15306;P29692;Q9NT62;Q96NU7;P62993;P06703;P42574;Q96IY1;Q7L9L4;Q9NYG5;O00505;Q86TX2;P21673;P62424;P62273;P28289;Q9UK41;P62714;P67775;Q9P258;O43776;P55884;Q14204;Q7L5D6;Q99717;Q92748;P49459;P15559;O15350;O15105;Q9Y697;P83731;Q9UI08;Q8ND04;Q14203;P60866;P09467;O14579;P69905;Q92945;Q9BX66;Q00978;Q00994;P49458;Q96CW5;Q05084;Q04864;Q96AQ7;Q96B26;P35573;P63241;Q3I5F7;P20618;Q8TDN4;Q14749;P62899;Q9H0F6;Q8NFH3;P42771;O95067;P35658;P52298;P52565;P49593;O00232;Q9Y376;Q14152;P05937;P55212;Q9NRF2;P46976;Q96JJ3;Q13114;Q96DG6;P55196;O75821;P60842;O95644;P55072;Q9BTE1;Q9H0E2;Q9Y3B2;P09496;P36871;Q6NZI2;Q03393;P51668;A5YKK6;Q9Y333;P16157;P17096;P35268;Q9Y3E5;P41252;O60784;Q01860;Q92843;Q5EBL8;P61077;O95997;Q96H20;O14867;Q9BZE9;P09132;Q93034;O43805;O00186;O14508;P62826;Q000987;Q8TEW0;Q12834;O15198;P30305;Q96FA3;Q6QNY0;Q96FZ7;Q9BQ90;Q9UKV3;Q13404;P30047;O94855;P62891;Q14980;P08708;Q8TEP8;O95433;P11802;O95999;P06733;Q6PCE3;Q8TZH2;Q9NRG4;Q8N5C8;Q96MT3;Q9Y316;Q15024;Q13813;O00303;Q9NZN8;O15056;P61088;Q16637;O95453;Q6XQN6;P37837;P30153;Q8NFI3;P57076;Q13432;Q16236;Q14934;Q8WXC3;Q14103;O75832;O14618;P46782;P41250;Q14CS0;P61353;Q8IY63;O00233;Q8IUI6;Q9UJX6;Q13155;Q9BRT3;P14649;P62877;Q96CF2;Q9NZZ3;Q9Y266;P16333;P41208;Q9NRS6;P62854;Q14493;Q9Y3U8;Q01082;Q9NSA3;Q9HCK5;Q9NP71;O14777;P62318;A6NK89;Q9Y5B6;O75161;Q9Y6D6;Q96B36;Q9P243;P99999;Q10567;Q9BZ29;Q86TB9;P47914;Q9BW27;P18669;P84022;Q12904;Q9H9E1;Q12968;Q86V81;O14980;Q9NVX0;P09917;P49354;P48444;Q14232;P31350;Q66GS9;Q9Y285;P49419;P20340;O75665;Q92973;P10144;P08865;P17661;P02511;Q15436;Q9Y3E7;O14556;Q96EA4;P56945;Q9NCP4;O92541;Q8N5D0;Q96TA1;Q9UNN5;P60604;Q16851;Q96S59;P60228;O14641;O00221;P02533;Q9Y3C4;Q43597;Q96L92;Q13469;P78537;Q92539;P31749;Q15102;P61313;Q9H074;P14635;P25398;O14531;O00255;Q96EV8;P55822;Q86SQ7;Q13042;Q9Y3F4;P10914;O94986;P51965;Q13309;O43633;Q9Y4Z0;P46060;Q9NYJ8;Q02556;Q9UJX5;Q9UD71;Q9P2J5;Q9BYG5;Q5TBC7;Q96SN8;P49720;Q9H444;

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580 Pathogen[ Q85601] interacts with 1088 human partners: {Q9UJX2;Q9H492;Q13596;Q8NHQ1;Q8NBT2;P46783;Q96QK1;P32969;P10144;P28066;Q96FQ 6;Q9HCE1;P61163;O00401;Q9BZI7;Q9UNM6;O15198;P61513;Q96J02;P60900;Q99543;Q9NZC7;Q9UPZ3 ;Q99497;P61981;P49454;O00186;P54920;P69905;Q6QNY0;Q9NRN7;O75161;Q5RKV6;O75496;P26373; O15234;Q6PGN9;P62857;Q96LC9;Q15370;Q6P299;Q16543;P08151;P60174;P62244;Q13409;O60346;Q 9BQA1;P63104;O14896;O00629;O75688;P54136;O43324;Q13309;Q9NSD9;P62913;P62633;P09913;Q9 UHB4;Q53FT3;P08107;P55036;P34949;P22681;Q9UJW0;Q9H6Z9;P13807;P11168;Q9HAU4;P31946;Q9U PT5;P68133;O95229;Q9NPD3;Q9HAV4;O94925;Q13127;P16157;Q9NP79;Q9NVD7;Q9BXH1;P62854;O150 27;P48444;Q9UJX6;Q00610;O75143;P55273;Q931749;Q16236;P99999;P62993;Q86VP1;P02533;P2438 5;Q13490;P14316;P09496;P17096;P06396;Q9NUP1;Q9UQN3;P62081;O95831;P26639;P50452;O14933 ;Q02241;Q8IYB3;Q9NPI6;Q8NPFH4;P14868;Q9UD71;O43708;Q5JVS0;P61353;Q15750;O94986;O95149; Q9NQP4;Q14258;P62891;Q8NPF3;Q15154;Q03188;P46776;Q02556;Q9H900;P31150;O00471;Q93009;P 47813;Q9BUX1;Q86X55;P18077;O95684;Q9NYJ8;Q14008;P25787;P46060;Q96EE3;Q14194;P61313;P4 1091;Q9BQQ3;Q96H20;Q9UQC2;Q99613;P05388;Q9UBQ5;Q9Y2Z0;P49789;Q04724;Q9UN36;Q9HCK5;Q5H YK7;P05413;P62714;Q9GZV4;Q8IUC6;P63151;Q5JSH3;Q9HD36;P62495;P17661;Q9Y2N7;Q9BRA2;Q96C W1;Q9UQL6;P09917;O14879;Q15833;O14579;P13533;O95487;Q9UBB4;P21399;P49589;Q9NQS7;Q96RT 8;Q9NRR5;Q9BYG5;P61289;P06730;Q8IY63;P62304;P07196;O95295;Q12769;Q8IYW7;O14713;Q9H0W8 ;Q9UJW3;Q14240;P41220;Q92540;Q9UBU9;O60763;Q6GPH4;P51161;Q13158;Q9H081;P08670;Q9UKZ1; Q7Z465;P35579;P63173;P25788;O43541;O95336;Q96MP8;Q9P258;P49593;Q9P2J5;P23588;O15111;Q 14103;Q9BX66;Q15797;Q9BUL8;P14649;O15116;Q96SN8;Q15036;Q96BT3;Q53G26;Q9UP83;Q13155;Q1 6719;O75935;Q9BXS5;Q01105;P10746;Q9BU02;Q13112;Q9UDY8;Q9UKT4;Q9HC16;P16333;P07814;P02 042;Q9BXP1;P57740;Q9BPZ7;Q14790;P62877;Q9H8S9;Q9NUS5;Q99966;P40337;Q14684;P23396;Q9BR G1;P56377;Q99962;Q9BZF9;P62273;Q9NVX0;Q07352;Q8NHZ8;Q9UL18;P15407;O95433;Q8WYP7;P4677 8;Q9UKN5;P62829;Q75832;Q8N5X7;Q8NHV4;Q86TX2;P40763;P18669;P30050;Q13426;Q9Y697;P62753 ;Q6PI26;Q9UDY2;P27815;P11172;Q12982;Q13868;P30622;P42772;P27635;Q13415;Q9H1A4;O60825; P61326;Q9NVM4;Q9NWT6;P62826;O15516;Q9HAT8;Q92844;Q15287;Q8WUM0;Q16829;Q9UER7;Q71F23;Q 14596;P63000;P48200;Q9Y4L5;Q9HC77;Q04637;P23381;O60318;Q13616;P15880;Q9UMS0;Q66K74;P8 0303;P46379;O43264;Q14204;P37837;O60936;P83881;Q49B96;Q16613;Q53HL2;Q07020;P14136;P98 170;Q86V11;Q9P209;O43747;P30153;P61923;P39019;Q9Y6X9;Q8TDY2;Q13642;Q9Y376;P26641;Q9UI V1;P57075;P06733;Q8NG31;Q9Y3U8;Q96PU5;P11532;Q15173;Q96S95;Q9NR50;Q9NR28;Q15306;P4610 8;Q9GZV5;Q9NP61;P61970;O15078;O00757;O43633;Q96B36;P62701;P06744;Q99814;O15392;P62241

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Pathogen[ P14079] interacts with 1209 human partners: {P31751;P36543;Q5EBL4;Q13228;Q9UQL6;O75031;Q96QK1;Q6VY07;Q9Y3U8;P27635;Q15691;Q6R327;Q14980;P84098;P46779;P28065;O75886;Q9UHB4;Q96CWL;Q99436;Q96A56;P00374;P15259;P17707;Q92844;O14810;Q6VN20;P52565;Q9BXL7;P05937;Q8TE04;Q86YV9;Q14CS0;P48454;O75161;P48775;Q49B96;P35579;Q9BXS1;Q9Y333;Q96IY1;Q9Y285;O75223;O60260;Q01105;P48643;P08151;Q9Y5K8;P20042;Q03188;Q5JVS0;P62333;O15164;Q8IXQ6;Q9BW27;P13805;P35237;Q96JI7;P02042;Q6P587;O14867;Q9H0P0;Q9GZT9;P23381;O95628;P26639;Q9UKV8;Q99743;P26373;Q9Y3E5;P57678;Q86VN1;Q6P3S1;P57076;Q9HAT8;Q15287;Q12982;O14841;P61923;P48556;Q8IXH6;P42357;Q9BQ90;O76075;O15027;Q96LW7;P51965;P61970;O15162;P09132;P69891;Q96RS0;Q9H8S9;Q96CF2;Q96Q5;Q8WXC3;Q9UD71;P60842;Q9Y3B2;Q15036;P61966;P23396;O95544;Q6ULP2;Q9P2J5;Q05084;P63261;Q8N5C8;Q8IZD4;Q15056;P11142;Q9BXS5;P57077;Q9NPB8;Q9UKG1;P35869;Q8TEQ6;Q8NFF5;Q99814;Q8N5D0;P0CG48;P19429;P40855;Q00610;Q96KPA;P40429;Q9BYX4;Q16222;Q92600;P52630;P49593;Q9UL18;Q9NRR4;O00303;P30307;Q99996;Q9NT62;Q9H939;Q9H9G7;P20962;Q9GZV5;Q96H20;O15305;P29728;P53041;Q9H7C4;P02795;Q9NPA3;Q9UKT4;O43187;Q16851;Q8TEP8;P31150;O75821;P11532;P53779;Q14693;Q9Y316;P50452;Q9BYG5;Q7Z460;Q14653;P06730;Q6QNY0;O15553;Q96BT3;P02100;Q99704;P09914;P57721;Q96IU2;Q9UI10;P54136;Q9Y4P8;Q9UDY2;Q9NRG4;O95999;P18621;Q13415;Q9HBM1;O9548

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Pathogen{ P03383} interacts with 866 human partners: {Q9UD71;Q7Z7A1;P08107;Q96EE3;O15504;P42766;Q13257;Q13228;Q96CW1;O14879;P30307;Q8WUM0;Q8NHZ8;Q7L5D6;P36578;Q9NQS7;O60716;P27986;O15198;P02794;Q13616;Q03188;Q06265;P05388;P62266;Q9Y285;Q9UBU9;P39019;Q96LC9;Q6QNY0;P49454;P10914;P34949;P26373;O15234;P84101;P56945;P14316;Q9Y2L1;P56377;Q86XR8;Q5JVS0;Q16543;P49792;O14757;Q15287;Q8N2Z9;Q8NFH4;Q53EL6;Q8ND04;Q9BQA1;Q9UBB6;Q96G03;Q7Z460;P62913;P62945;Q01105;P55036;Q96N21;Q13485;Q9UJW0;P02533;Q12904;Q15369;Q6IPU0;Q14653;Q9BSJ2;Q04864;Q96A56;O14862;O75791;Q15366;Q9NWT6;Q9P2J5;O94925;P62854;Q96BD8;Q00610;P29474;O75143;O14933;P55212;P17096;P40429;Q9H0F6;Q9H8S9;Q9Y244;O14579;P14868;Q02241;Q8NBT2;Q9Y6K9;Q92844;O94986;Q13469;P62987;P62891;P25398;Q8IUC6;Q96JI7;Q14008;Q9UP83;Q9H900;Q15691;Q13233;Q9NYG5;Q9H840;Q00653;Q9UL18;P62280;P62318;P55735;Q96QF0;O95684;Q07020;Q8IU60;P51965;O95433;P49458;P53618;Q43290;Q9UJX6;P40337;P62312;P25789;P62750;Q9NZD8;P54105;Q8WUX9;Q9BUX1;Q9Y678;P08670;P60900;P49789;Q5HYK7;O15371;P05387;P62249;Q9H1K1;Q6NZI2;Q9BU02;P54920;Q9UQL6;P17661;Q9BRA2;Q9NVX0;O14713;Q96H20;P62888;O95487;P62899;Q9UBB4;O15162;Q9UHB4;Q9UBQ5;P50502;O43264;O14920;P31946;Q9UPQ9;Q5FBB7;Q15173;Q96FJ2;P19367;P60228;P611927;O95295;P41220;P24534;Q9H0W8;Q9UJW3;P00338;Q99608;P46777;Q7Z7A3;Q9Y5S9;Q9Y5B6;P46779;P52948;P49207;Q7Z465;P07902;P31749;P00NRG4;Q9P258;Q9BPZ7;Q9ULE6;P62316;P42025;O15111;P34896;Q14203;Q93034;Q96SN8;P49589;P83731;P62424;Q9Y3E7;P40306;Q96AQ6;O95644;Q9UFN0;P57740;Q9NUQ3;Q9UI10;O00233;Q9BZF9;Q10567;Q96CW5;O43303;P60953;P18124;Q86X55;Q8WYP5;P46778;Q9NZZ3;P41208;Q6VY07;Q8IWL9;Q8NHV4;P62328;Q13490;P18669;P55957;Q92901;P62753;P02511;Q6PI26;O00186;P62304;P30304;P62937;Q9BV73;P62714;P22392;P69905;P13807;P09467;Q96AQ7;P61326;Q9GZV4;Q9UHI6;P42677;O75886;Q96MT3;P09972;O95831;Q8WXD5;Q9BZE9;P48200;P63000;P61247;P40925;P52630;Q9HC77;O00762;Q63HM1;O60318;Q15468;P68871;P38919;Q9Y4Y9;P49721;Q06323;O60936;P83881;Q9NXT7;O00170;Q16613;P37837;Q86VP1;P14136;Q9H0B6;Q9UFF9;O95486;P24385;Q9HCK5;P35573;Q8TDY2;Q9UKT4;P30153;P26641;Q01860;P47914;P04792;Q9C0C2;Q96I22;O60841;Q15797;P142226;Q96H22;Q14997;Q9H1A4;P10599;P67775;P9Y6D6;Q9UN36;Q9NPN7;Q9NT62;P26196;Q96B36;P119240;Q14152;P63208;O00505;P62917;Q9UQF2;P49247;P62233;Q07352;Q86V81;Q15306;O60573;P07900;Q9NUS5;Q14690;P49754;Q13352;Q92597;Q00978;P61457;Q00534;Q15653;Q9UNX3;P63241;Q96EA4;P35813;P20618;O43324;Q9NQP4;Q04724;Q9UHD4;P09132;Q13158;P78537;Q13042;P02795;Q13155;Q9NUP1;O15117;Q13432;Q14684;P14635;P30050;Q9Y3B2;Q96MT8;P11802;O14744;O43318;Q6RSH7;P48147;Q96EV8;Q9UILL1;Q15436;P84098;P31350;Q9Y3E5;Q96BT3;Q9Y697;P78396;Q12769;P30279;A9QM74;Q9BV57;P61077;Q6PCE3;P36873;P62826;A8K8P3;Q07157;P32969;Q99618;P11168;P10279;Q09161;O95628;Q8IXQ6;Q8TEP8;P20042;Q71F23;P49366;P09913;Q8N5C8;P62136;Q99567;Q9UBW7;Q9UPR3;P61088;Q8IXH6;Q12834;O75901;Q16719;Q96GX9;Q96L92;P57077;O75832;Q6PGN9;Q14934;P62277;O0401;Q14397;Q05084;Q13144;P18077;O15105;P23588;P06730;P63173;Q8IYB3;Q9NR50;Q16851;Q9NSA3;Q92985;P06744;Q53HL2;Q9Y316;Q16637;Q7L9L4;P62081;O95229;Q9BW27;P84022;Q9BU64;P52292;P46976;P62314;P62310;Q66GS9;Q00994;Q9BTM9;P06132;Q86SQ7;Q9Y2J4;Q92945;Q9UK41;Q7LBR1;P50613;O60260;P42772;P23381;P20962;Q49B96;Q96TA1;O00273;Q86W56;P63104;Q9HAU5;Q9UNN5;Q9UM13;Q99873;P60604;O14556;O43633;P80217;Q8TEQ6;Q96S59;P07195;O14893;P61586;Q92973;O14641;O14896;Q13541;P63010;P61313;Q9UKV3;P48539;P46527;O14980;P08865;O43747;Q9HAV4;O94855;Q9NPD3;Q12933;O43684;O00471;O15078;P24941;Q13568;P62851;Q13426;P62495;Q86US8;Q9BYG5;Q9NQ4;Q13404;O43617;Q9H444;Q9H171;P47813;Q99717;Q9NXV2;Q8TAT6;Q9NPI6;Q9BZD4;Q14493;P46782;Q15046;Q9Y2N7;Q13867;Q14103;Q8WXC3;Q9UM11;Q9H6Z9;O43541;A5YKK6;Q9UL46;Q9UH77;O95149;P15407;P62269;O95190;P57721;Q9HCM9;P68104;Q9UNM6;P63220;P05198;Q9NPN6;P04406;Q12968;Q02543;P62244;Q15154;Q01201;O95067;P14678;Q02878;P14324;Q9UKN5;Q9Y333;P14625;P42768;Q8WVK7;O15350;P07196;Q9UIV1;P11532;Q9UER7;Q5JTC6;P25786;Q99460;O95782;P62837;P07814;Q9BYV8;Q15759;P49770;Q96RS0;O96020;Q15185;P99999;Q86TB9;Q9Y3F4;Q562F6;Q9UMS0;Q8N9V7;O00255;Q8IYD1;O75475;Q86YV9;P11142;Q96HA8;Q9BRG1;P25963;Q92600;P53041;Q9Y5K5;O75935;Q8TDN4;P78344;Q07866;P28072;O43255;Q96B26;Q9HBM1;Q13094;P62910;P27635;O95810;Q14974;O94921;Q9UKV8;P48788;Q13200;Q9UML6;Q5BJF6;O96007;Q9H074;Q9Y6K5;Q9Y266;Q8IY63;O95999;Q9H4A6;Q99543;P50453;P28065;Q13501;Q9HA77;Q9H410;O15027;O60784;Q8IZD4;Q16236;P07741;P57076;P42771;P62857;P28066;O15131;Q13547;P26651;Q92783;P52298;Q99613;P78371;O14965;Q99933;Q9Y3C4;Q96RU7;Q15628;O75436;Q9H081;O75822;Q92748;P35658;P62906;O43504;Q9Y4Z0;Q96IY1;P46783;Q14980;Q9BV20;Q9BRV8;Q16082;Q9NZN8;Q8IX03;Q9Y3U8;P67870;P60866;Q04637;Q9UK45;Q9RKV6;Q13617;Q96C86;Q86WI3;Q15181;Q15327;Q5EBL4;Q9UJX4;P61254;Q9UPV0;P62633;Q16401;Q8TAP6;Q9H7C4;P62979;Q8NG31;O00231;Q00597;P61981;P39880;P0CG47;O95394;Q96QK1;Q9Y4P8;Q15796;P62241;Q9P209;P56524;Q9BUL8;Q96FA3;P46781;Q14232;P35237;Q53FT3;Q13347;Q14677;Q6P1K2;Q6ULP2;P13647;Q9UJX5;P62877;O75161;Q13309;P32189;Q9H3M7;Q04206;P39023;P53992;O95997;O43776;P57678;P08397;Q9NRR5;Q9BU89;P49459;Q9UHB9;P45984;Q8WYR1;Q96S95;Q9UPZ3;Q02556;Q8WUM4;Q9UKZ1;Q5UE93;O60504;P50452;Q9NRA8;Q15370;Q99996;P0CG48;P5484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583

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Pathogen[ P03410] interacts with 1240 human partners: 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584

Pathogen[ P14075] interacts with 887 human

partners: {P60953;O95453;P52630;Q96MT8;O75953;Q6P2E9;P06733;P60604;Q9BTM9;P29474;P68871;P42766;Q96AQ6;P54136;P78537;P52292;Q9HAB8;O43617;Q99933;O15131;Q8TEQ6;Q6IPU0;Q15366;P84101;Q96IU2;P35869;P49207;P40925;Q96GX9;O15234;P09132;P62857;P62304;Q9GZV5;P46781;Q8TAT6;P63220;Q16543;P54105;Q96N21;P32969;O43303;Q9UK45;Q9BRV8;Q9BYV8;Q09161;P35813;P62316;Q96MT3;Q9H814;Q53FT3;Q16719;P62495;P55036;P25788;Q9Y5B6;P11532;Q14690;P42677;Q99608;Q9Y266;Q13155;P62913;Q9UHD4;Q9H211;Q92900;O15111;P22090;O60841;Q9H7H1;P55957;Q13042;P11142;Q9Y3F4;P20042;Q02878;Q8WXD5;O00273;P09496;Q9GZT9;Q15102;P31350;P28066;Q04206;O95067;Q15750;Q9BUL8;P06132;P09913;P24941;P49902;Q9UMS0;P41250;P62277;O95684;P06744;Q9Y6D9;Q92844;O15372;Q02241;Q96LW7;O94973;P23381;Q8IXQ6;Q9UPR3;P05412;P62851;Q9NXT7;Q86WI3;P11802;P42226;Q06323;O75832;Q3034;Q9H081;P68104;Q9BRA2;Q96CW1;Q15759;Q9HCK5;Q14103;O75886;Q9ULM6;Q86V81;O75475;Q8WYR1;O00186;P62837;P23588;P08865;Q9BQA1;Q562F6;P11172;O95295;Q8TAA3;Q8N5D0;Q9Y3C4;P62328;P61970;Q9UKZ1;Q07157;Q9UKT4;O75791;Q9NPD3;P60900;P34896;Q92845;Q9NT62;Q9NQS7;Q72465;P62244;O75143;A6NK89;P40855;P14635;P61326;Q7LBR1;O15162;Q9UM11;O00233;P08708;O43541;Q9H444;Q9H9G7;Q9UKN5;Q9NSD9;O14713;Q14493;P61088;Q01201;Q92674;Q9UL46;P57678;Q9BV57;Q8WVK7;Q9Y4Z0;P26196;P57740;P30279;Q8WUX9;Q8WUM4;P32189;P55212;P49720;P61254;Q8WYP5;P46778;Q86SQ7;P49459;P50613;Q8NHV4;Q7Z460;P26651;Q92600;P78559;Q01860;Q6PI26;P34949;P42768;Q92945;P62633;Q13561;Q92973;Q93100;P49792;P17096;Q92783;Q15327;P56524;Q00994;Q9BV20;Q9NPF9;P51965;A8K8P3;P05388;Q96IY1;Q13257;P41252;Q9UJW3;Q00534;Q9HC77;Q9HCE1;P26641;P78344;P18669;P80217;Q9Y2N7;P42771;P41220;Q6RSH7;P83881;P170651;O00629;Q5UE93;Q16613;P54920;Q86VN1;P14136;Q9BYG4;Q99613;Q9Y244;Q5HYK7;Q9Y2V2;Q8TDY2;O15117;P19367;O75821;P46777;Q9H840;O95997;Q96H22;Q96G03;P29692;O95433;O43684;Q9GZV4;P57076;Q9Y3U8;P04792;Q96SN8;P62249;Q92890;O14933;Q16082;Q99543;O75175;Q9H074;P78371;Q53G26;Q9UK41;O15027;Q99717;Q13200;P08397;P48556;P06730;P62306;Q16401;Q9NPI6;P62081;Q5TBC7;Q00978;O95045;Q15653;P63241;Q8NHQ1;P62308;P15559;Q5T1C6;P62750;P18621;Q9UHB4;Q96LI5;Q8IU60;Q96BD8;Q9NZD8;P35658;Q9NZN8;O96020;Q9Y6D6;Q15796;Q01105;Q02543;Q9UI10;P46976;Q9HAV4;P54840;P08238;P28070;Q9UD71;P18124;Q9UNX3;P53992;P20073;P25398;Q96LC9;Q96JI7;Q9Y3E5;O75901;Q9UBB4;Q8IY63;P25963;O14777;P61981;Q13547;Q9UJX2;P61077;Q13642;P49721;P07195;P20962;Q9Y2L1;P55735;Q6PCE3;P39880;P47813;O00471;Q15185;Q9UKV3;Q96H20;Q9HA77;Q8NFX5;P36873;O95229;Q13868;Q8TEP8;P05198;O15371;P49366;P62312;O00231;Q8N5C8;Q92748;Q9Y316;P46527;Q9Y4P8;Q96AQ7;Q96TA1;P16637;O43255;Q9Y3E7;Q9HCM9;Q9H7C4;P62136;P78396;Q9UJX6;O00505;Q8N2Z9;Q02556;O00743;Q9H8S9;Q9UFN0;Q9NUQ3;Q8NHZ8;P57077;Q92530;Q9Y285;Q96HA8;P16333;Q9BU89;Q13568;Q13485;Q9NXV2;O00255;Q9UPV0;P63208;P07900;Q9NQ4;Q9H3R5;Q3LI64;Q9NPF1;Q9NR28;P11940;Q6NZI2;Q9BPZ7;Q9Y2J4;Q14999;O14980;P60228;P63173;Q96B36;O14920;P55822;O95628;P16118;Q9BW27;P30050;Q9HCC9;P52294;Q9UHI6;P31749;O95487;Q9H4B6;P07902;P57721;O95810;P0CG48;P04406;Q86US8;Q8IZD4;Q66GS9;Q92539;P62979;P49419;Q99996;O00762;Q96S95;O00401;O15078;O60573;O14964;P83731;Q9BU64;Q96EA4;P49458;P84098;O00139;Q5BJF6;Q9UP83;Q86VP1;P49754;Q9UNN5;O00170;Q14653;P62318;Q96559;P28062;Q96FJ2;Q96M53;Q15370;O15116;O14641;P99999;Q13490;Q9P258;P28074;O75935;O14744;Q14232;O75161;Q9UJX5;P56192;Q12933;P61247;Q99873;P62753;Q86XR8;P46782;P62891;Q13469;P62891;O15350;Q14684;Q12904;O14862;P28065;Q63HM1;Q9UPQ9;P18077;O14965;P11441;Q9NVS9;Q9NPA3;Q9NSA3;P46779;Q86X55;P62917;P53618;O95831;Q8WXC3;Q9UQN3;P39023;Q6R327;Q15287;Q04637;P50502;P50



914;Q5JVS0;Q8TE04;Q15691;P67870;P62269;P62847;Q8IW19;P62910;Q9BXH1;O43776;P62273;Q9BV73;Q7Z7A3;Q86TB9;O95782;P27797;O43318;Q9HAT8;P30047;Q14934;P02794;Q13158;P27986;O15198;Q14CS0;Q14677;Q96EE3;Q9H008;P14324;Q5RKV6;Q86YV9;P40429;O75807;Q9UN36;Q96FA3;P23396;P62241;Q9Y6K5;P25786;Q8TAP6;Q15306;P15880;Q6QNY0;Q15173;Q96RS0;P62826;Q14818;Q9NZZ3;O95336;Q96BT3;Q9NQF4;P49770;Q9NUP1;P62987;Q8IYD1;Q13309;Q9BPU9;P63104;P06396;Q9UHF77;O43747;Q13114;Q9NWT6;P53041;P35579;P14868;Q9HAU5;P61457;Q9H3M7;P35573;P28072;Q5FHB7;Q9P2J5;Q53EL6;Q96B26;P51580;Q15436;Q8IYB3;Q9UKV8;P61586;Q9NRR5;Q14258;Q9BUX1;P62841;Q9Y333;O96007;P36578;Q8NHY2;O15105;O95999;P62266;P50452;Q14397;P30304;Q13794;Q07352;P02511;P50453;Q9UILL1;Q9H410;O95149;Q13867;Q13426;Q15633;Q9UBB6;O94986;P62714;Q5JTC6;Q9UPZ3;Q8IXH6;P41208;P14316;Q15628;Q13228;O14896;P67775;Q13347;P08670;Q13094;P30153;P63000;Q14997;Q96RU7;Q8IUC6;O75436;P61513;Q75822;Q15154;O14879;O43504;P61313;P27635;Q8NFH3;Q9ULE6;P14678;Q9UJX4;P63010;Q9H900;Q5EBL4;O94925;P62888;P02795;Q53HL2;P00338;Q9UFF9;Q05084;Q9Y678;Q92901;Q96EV8;P0CG47;O95394;P62937;Q6PGN9;A9QM74;P42772;O15504;Q9NVX0;P09972;P49789;P25787;P15259;P26639;Q96QF0;Q9UDY2;P08107;P50748;Q9Y5S9;P35268;Q6ULP2;P13647;Q13404;Q15468;P49247;Q96C86;P46937;Q13127;Q9NR50;Q9BRG1;Q9UHB9;Q7L5D6;P62945;Q99567;P56377;Q8N977;Q9BYG5;Q9BZF9;P46776;P19838;O60504;Q9UQL6;Q12769;Q04724;Q99741;P11168;P07196;Q9H0W8;Q14749;P48788;Q9UL18;O75665;Q15024;Q00653;Q9HBM1;P31946;Q92597;P20618;Q9H1A4;Q6P1K2;Q9Y6K9;P13807;P24385;O94855;Q86W56;Q9BXS5;Q9NPB6;Q9NRA8;Q9UBU9;P46783;P48200;Q14974;O95613;Q9P209;Q14203;Q8NFI3;P62701;Q92985;P07741;P84022;Q13144;Q9UER7;P15407;Q13352;Q07866;Q14008;P49589;P62899;Q99618;Q7L9L4;O00425;O43324;P30793;Q8WUM0;Q9COC2;Q16236;O60936;Q9H0B6;P47914;Q9UNM6;P21673;Q14893;P62906;P62906;Q13616;O75496;O60716;Q00597;P62314;Q13112;Q86Y01;Q13233;P38919;Q15046;Q9UM13;Q9UJW0;P10914;Q6XQN6;Q14980;Q9Y4Y9;O94921;Q9UBQ5;Q9UIV1;Q9BU02;P40337;P14625;O43290;Q03188;P30260;P61289;P05386;Q8NG31;Q9UJX3;Q8TDN4;P40306;Q96EK6;P61353;P51668;Q9NYG5;O60260;P49454;P37837;P39019;Q13617;Q13432;Q9BSJ2;Q15369;P62424;Q99436;Q92540;P09467;A5YKK6;Q06265;O95486;Q09H4A6;P30307;Q7Z7A1;Q9NRG4;P24534;Q71F23;Q8NFH4;Q9UQF2;P62829;P62280;Q16851;Q10567;P2533;P63167;Q12968;P49591;P42025;Q9Y3B2;Q9UBW7;Q9H0F6;Q8NBT2;Q96F86;Q9BZD4;Q13541;P35237;Q8ND04;Q96A56;Q07020;Q96NU7;O14757;Q9H171;Q9NUS5;P62263;O14556;Q12834;Q96CW5;P22392;Q96EY1;Q00610;P62854;Q6VY07;P60866;O95644;Q13501;Q15181;P26373;P07814;P62877;O60784;P05387;O95429;Q9H1K1;P56945;Q9NRN7;Q14152;P62310;O95190;Q9Y5K5;Q9UN37;P52948;Q9BZE9;P62258;Q96L92;Q04864;P48539;P52298;Q8IX03;Q9H6Z9;O75531;Q9BQ90;Q9Y697;O75031;Q9UPT5;Q14693;P25789;P24864;P10599;Q49B96;Q96QK1;Q9BZI7;P36543;O14579;Q9H1J1;P45984;Q9Y314;P69905;Q9NYJ8;P61927}

585

Pathogen[ P0C206] interacts with 1206 human partners: {P49589;Q9UBW7;Q9BPU9;P61289;Q9NQC7;Q5JTW2;Q13112;P06733;Q9UNN5;Q9H1K1;Q9C000;Q96EE3;Q9HBM1;O14964;Q9BRG1;Q16831;P46937;Q16851;P41091;Q12982;P09132;P84022;Q15287;Q92597;P53680;P40429;Q8IXH6;Q9UFF9;P61313;P63010;O60716;Q99436;P28062;Q9NPA3;P10144;Q86Y01;Q9UFN0;Q96RS0;O43541;P99999;Q9UNM6;Q96DG6;P48643;Q86XR8;Q4G0F5;P07195;P68871;Q96L92;O43324;O14579;Q96PU5;P10914;Q13501;Q13541;P0CG48;Q8WYP5;P07814;Q92539;Q01082;O15131;Q9H074;O60291;O43933;Q15468;Q9Y2Z0;P62877;P05062;Q0VDF9;P57076;Q9UKG1;Q9Y678;Q99613;P10746;Q9Y3F4;Q8WUX9;Q9UN37;P60709;O94986;Q14103;P27635;Q9UM54;P14678;P17661;P06396;Q9HCK5;Q9GZV4;P50452;Q9H4A6;O75832;Q9BZI7;Q504Q3;Q6IPU0;Q13568;P20042;O94973;P36543;P09917;P18124;Q9NSP4;P07196;Q8N2H9;Q96N21;O95149;Q86TB9;O14920;P52298;Q92556;Q96SN8;Q9H4P4;O95453;O00221;Q9H444;Q92844;P31749;P78537;Q8N6T3;Q92890;P62854;O14867;P27797;Q7LBR1;P40306;Q14CS0;Q13469;Q9NP71;O75496;P28065;Q9HC77;Q14997;Q86S07;Q14008;Q9H840;Q9NUQ3;Q9UBB4;O14576;Q9UL45;Q93100;Q13432;Q8TDN4;Q13127;Q9UJX3;O60504;Q16222;Q9BUX1;Q9Y6K9;P61326;Q9H900;Q9NXJ5;P46976;P47756;Q9Y6Q5;P49207;Q92845;P26651;Q8IZH2;Q9Y4L5;Q9BQA1;P60174;O00743;Q5BJF6;Q7Z6J0;Q9NSA3;O95684;Q13114;Q49B96;Q96C86;O43255;Q9NZL9;Q9BV20;O60784;P55036;Q9ULP0;P30307;Q9Y2N7;P13533;Q9Y3E7;Q9NR28;Q9BTE1;P02100;P15407;Q9BZR8;Q13309;P62081;P69892;Q13642;Q09161;Q9HAU4;Q9UDY8;Q96MT3;P18545;P53618;O43747;Q6XQN6;Q9HCC9;P30050;P25786;Q9GZT9;O94855;P30153;P62166;Q9HD36;Q9Y6D9;P35869;Q9UPZ3;O14862;O95810;Q86WI3;Q8WXD5;P62736;Q10567;P25788;P54920;Q5EBL4;Q93008;P51161;P22392;P29144;O14933;Q96G03;Q8NDL9;O75161;Q96RT7;P02794;Q7L2Z9;Q9P243;Q14690;Q9NPD3;P41252;Q9NRS6;P51955;Q8N5C8;P30419;Q14258;Q9Y6N9;Q9UD71;P62241;Q5RKV6;P54105;Q99873;P62304;Q9Y6D6;Q9NVD7;P62244;O14744;P25787;Q99933;Q86VP1;Q14315;Q8IYB3;A9QM74;P45984;P50914;Q01860;Q9UJX5;Q96IF1;Q9NXV2;Q9Y2J0;Q13868;Q13615;Q9NZN8;P08865;Q8TCU4;Q9UIV1;Q13228;P62750;Q9UJX2;Q8IY63;Q96CW5;O75807;Q06323;Q96B36;P18621;Q15327;O14713;Q9H492;Q8TE04;Q96LI5;P48147;P46781;P30279;Q96B97;P62328;Q9H0R1;Q04446;O75608;Q9NRG4;Q86X55;O76075;O00629;P62266;Q02543;Q14232;P49754;P52565;P63167;Q6LE6;Q9Y6K5;Q15691;P09467;Q96JI7;Q9Y2V2;P34932;O00255;O95997;Q9H081;O95999;Q8TEQ6;P61966;Q9UILL1;Q53G26;P49720;Q99717;Q9Y697;P15559;Q8IWB7;Q14974;P05412;O14777;Q8IUQ4;O95394;P25963;Q8N0S6;Q05086;Q15185;P19429;Q9UQN3;Q07020;Q96J02;P83881;P80303;Q8IYD1;P46778;Q8TBF2;P78559;Q9HAT8;P55212;Q15173;Q9NRX4;P60660;O14879;O00505;P26196;Q9H7H1;Q99618;P53041;Q8NFZ5;Q9BYG5;O43318;Q86VN1;O75175;P63151;O00444;P62263;Q96TA1;O00232;Q9UPQ9;P29728;Q15653;P62273;Q99698;Q9UER7;Q00610;P00915;Q9BZD4;Q9NPI6;P62314;P62316;O96007;P60900;Q9UDY2;Q02878;P62837;O60318;Q9H9E1;Q15306;O14531;P42771;P55735;Q9HA77;Q9UKV8;A8K8P3;P68543;Q16543;Q9UPV0;Q13547;Q99962;P04792;Q9H410;Q8TAT6;P35754;Q86TX2;P42772;P98170;P50991;P62495;Q13596;P30305;O15164;Q93009;P35237;P49902;P62826;Q8IUD6;Q8IXQ6;P20962;Q12968;P62280;O15524;P43490;P57740;Q6PGN9;P49454;P11441;Q13158;Q9UI08;Q9Y376;Q9BHX1;Q99996;P31939;P50453;P41250;P26641;Q3LI64;P17987;Q13616;Q12933;P34949;Q01201;Q92783;Q99497;P67775;Q96B26;Q9UQF2;P30622;P62857;P62851;P30793;P11055;P19367;P50542;O43237;O43242;Q15796;P62910;P10636;Q99741;Q9H9A5;Q96A56;Q13257;Q16829;Q8NDV7;Q92973;Q14596;Q00994;P32189;Q96LC9;O96020;Q9Y4P8;P49354;P26640;Q9BU64;P30260;P80217;Q15036;O75791;Q02241;P27986;Q9Y6X9;Q9Y4Y9;Q13233;Q9GZM8;Q8NFI3;Q9NR50;Q9BZE9;Q13409;P62993;P46782;Q96RU7;O95045;O95628;A5LHX3;Q9HAV4;P49591;P06730;P09496;Q9UGJ1;Q9Y4Z0;Q66K74;P61247;Q9NVK5;Q9HAB8;P48200;Q9NP61;P57721;P13807;O43504;Q15124;Q9UK41;Q9Y5K5;O14786;P62633;O75475;O43290;P61586;Q8TEP8;P31946;O43776;P69891;Q131



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586

Pathogen{ P03363} interacts with 986 human

partners[ O60763;Q53FT3;Q96B26;Q6XQN6;Q9Y316;Q5BJF6;Q16236;P22681;Q9UJX2;Q9Y6N9;Q86VP1;P49754;Q9UNN5;P46379;Q13112;Q504Q3;P62913;Q9NQT4;Q9NYG5;Q14653;Q96EA4;Q9Y6K5;Q9BUL8;P62314;Q12959;Q96M53;P52630;O75953;Q86Y01;Q92845;Q96RS0;P02533;Q13490;Q9Y2I6;O14744;P09132;P18621;Q9BZD4;Q8IW19;Q8IZP0;Q13309;P29474;P46060;Q9BVC4;P62258;P55957;P05386;Q9Y3F4;Q16082;Q9HCC9;Q13042;Q9Y4Y9;P49454;Q9RKV6;Q96IY1;Q8N2Y8;Q92973;Q9GZV4;O15371;P51965;Q9Y4Z0;P62750;Q15366;P69905;Q9Y5B6;Q9NSI8;O00273;O75161;Q96B36;Q6P1K2;P23396;Q92985;P42677;Q96AQ7;Q5JTC6;P62136;P63173;P49419;P08865;P62937;P13807;O43933;P60604;Q99962;Q9Y5K5;Q7Z7A1;P38919;Q15370;A8K8P3;P11277;P41252;P07900;O14908;Q14CS0;Q9Y6D9;P63167;P62847;Q9HC77;Q9UBB6;P11441;P18077;P06744;O14920;P62714;Q04206;Q16222;P05387;P35237;Q9NRA8;P51580;O14896;Q66K74;P02795;Q8WYR1;Q9H081;P18669;P49459;P52565;Q15468;Q9NSD9;Q9BYV8;O95628;Q9BX66;O95453;O95050;P36873;Q2VIQ3;Q9UHB4;P84098;P42766;P24864;P14649;Q16851;O15524;Q5VV41;Q8IXQ6;P02549;Q92674;Q8NFH4;O00221;Q00597;Q9UMS0;O00762;P60709;P62249;Q9UP83;Q9C000;Q9HAU4;P36543;Q92900;O95229;O60291;P48539;Q8N5D0;P50502;P05388;P68871;O43747;Q9HAV4;O60841;P78559;P16157;Q14194;P35579;P61970;Q9UHI6;Q99996;P31150;P36578;O14786;Q9UPZ3;P48444;O75886;Q9ULP0;Q96LW7;Q13357;P3347;P08151;Q99543;P99999;Q96L92;Q96MT8;Q96BD8;Q9UKV3;Q9Y2V2;P62753;O15078;Q92539;Q9H492;P62312;Q92530;Q96DG6;Q14397;Q8ND04;Q96JZ2;Q8NHV4;Q9UKN5;P62633;P62081;O43805;P40925;Q969Q5;P62910;P50452;Q96LC9;

Q96MT3;P30279;Q13228;A9QM74;O14933;Q02556;Q8WYP5;Q9H444;P14868;P25963;Q9UD71;Q66GS9;Q13561;P62328;P09914;Q14258;Q9UQF2;Q92783;Q8NHF3;Q13794;P61513;P49589;P46776;O43303;Q5VZK9;Q15024;Q14980;Q9Y266;A5YKK6;Q96B97;O14980;Q86US8;O00471;P09913;Q9UI10;Q12769;Q13283;Q96QK1;O15111;Q9Y3B2;P41250;Q9Y678;P61254;P62273;Q6P2E9;O00505;Q9H9G7;Q9UHB9;Q15691;O60784;Q8N9V7;P32969;P78537;Q01082;Q9H5684;Q92597;Q09NYJ8;P06733;P62736;Q9P243;Q9UJW0;Q12933;Q8IYD1;P46778;O94925;Q15056;Q9H6Z9;Q92901;O43264;P61927;Q8NHQ1;O75436;O00399;Q8NBT2;Q96BT7;Q9BUX1;P09972;P53041;P50570;Q9UBQ5;P31946;O75143;O95613;Q9UPR3;O00425;Q9UN36;Q9HCK5;P62891;O94986;Q9NXTX7;P49354;Q13568;Q9H3M7;Q14204;P62318;P06132;P54920;Q8WV28;Q9BTM9;P42768;O96007;Q8NHZ8;Q9NVK5;Q9BRV8;Q9NXV2;Q14152;Q53EL6;Q9Y6K9;Q02241;Q15436;P48200;Q9NPB6;O00743;Q9UKV8;Q8NZZ9;Q9P258;Q9UJX3;P80217;P61353;Q9NUS5;P47897;P57077;P98171;P68133;Q9UQL6;Q13617;O75475;P46109;Q9NSV4;Q5EBL4;Q9UER7;P49366;Q53HL2;Q00610;P07741;Q15041;Q8WVK7;P61289;Q8TAP6;Q96JI7;Q8IY63;P62304;Q9NZZ3;O43318;P11172;O15105;Q9BZR8;Q15306;O14579;P50453;Q9H410;O43776;O14713;P24941;P50748;Q15797;Q9Y6M1;O14867;P08708;Q9UKZ1;Q04724;Q9UJX5;O95486;Q9UBU9;P41208;O43639;P15880;P51161;P11940;Q9H4A6;Q15369;Q9NT62;O14893;P53618;Q9P209;Q13158;O75791;Q8IZD4;P60520;Q5TBC7;Q8N2H9;P30260;P40337;Q15327;Q15633;Q96H20;Q9BYG4;Q9Y697;P63000;P23381;Q9NZN8;Q9BXS5;P10144;Q8NDV7;Q9NPD3;Q99743;Q07157;Q07866;Q14807;O00629;O14879;Q05086;P27815;Q63HML;O15372;P20073;Q92890;P35869;P42226;P41091;Q9UJX6;P21673;P23588;O43504;O94973;P61923;P62495;Q6VY07;P61326;Q5FBB7;P48788;Q96IF1;Q15750;Q66LE6;Q9UM11;Q8TEP8;P35754;O95817;Q9P0M2;P62306;P05198;Q7Z7A3;Q49B96;O15116;P26373;Q13127;Q3I5F7;Q5HG26;P50991;P54105;Q13155;Q99608;Q9UJX4;Q15287;P61088;Q9H7C4;P66396;Q92529;O75351;Q9H900;P57678;Q9BQA1;P83881;Q9Y2J4;P30304;P10911;Q9BZF9;P63151;O43524;Q9BXP1;P63104;Q9BQ90;Q14684;Q14690;Q00534;P07196;Q6RSH7;Q9HBK9;Q9HD36;Q13867;Q16543;Q9ULM6;Q9NRR5;Q8TAT6;O15117;Q15653;P55212;O75031;P22090;Q5JTW2;Q07352;P61163;Q6PGN9;Q9Y333;P62861;Q9NVM4;P62841;P62316;Q8WUM0;P61457;Q9UNX3;Q9NR50;Q9H0B6;Q99567;Q96F86;P30622;Q9NSA3;P54136;Q9UN37;P84101;P30050;P46937;Q96A56;Q9H0W8;Q13426;Q8IYB3;Q8N5X7;Q6PI26;Q9Y4X5;P62829;Q13616;O43684;O95067;Q16829;O96020;P57076;Q6ULP2;P13647;Q00653;Q14999;P08107;P26641;Q9NRG4;P42772;Q8WUM4;Q9HOR1;Q13415;P62877;Q96FA3;Q86VN1;Q14240;Q15149;P46782;Q96PU5;Q92945;P35268;P34932;Q9UI08;Q99698;Q9Y3C4;Q15717;Q9GZV5;O95433;Q9NR28;P29692;P20962;P49450;Q8N1I0;Q9NZI8;Q9BRG1;Q13480;Q5UE93;P31749;P17096;Q9CO2;Q14677;Q13432;Q13588;P14316;P16333;Q86WI3;Q95901;Q9NQS7;P27797;Q99741;P20042;Q5JVS0;P11532;Q9UBB4;P46781;P47813;Q96RT8;P50914;Q9UNE1;Q9NVX0;Q9HCE1;O60318;O76075;Q9BPU9;Q9H939;P78396;P08670;Q96AQ6;Q92843;O43541;Q9UK41;Q14749;O15056;P17661;Q8NFI3;Q9NSP4;Q9H211;Q8WXD5;Q86V81;Q9Y2N7;P37837;P05413;Q9HAU5;Q15796;P63010;O75674;O75935;Q9Y3E7;P63220;P57721;P84022;Q05084;Q9HBM1;Q7LBR1;P17987;Q8WXC3;Q9H9E1;P04406;P14136;P98170;Q7Z460;Q9Y2L1;O00204;Q9UKT4;Q7Z465;P61313;Q9H1A4;Q92556;P39019;P49792;Q3LL64;O43290;Q9H0E2;Q8TDY2;P10914;Q86UT5;P52298;P26196;Q9NRN7;P35658;P54840;P57075;Q03188;Q8NG31;P46779;P49789;Q02543;P46777;Q9H840;P59047;P62987;Q9Y2Z0;Q13257;Q92600;Q14974;Q15173;Q96S95;Q9ULE6;P46108;P15407;Q9H008;Q9BV57;Q6NZI2;Q96LI5;Q13547;O75807;Q9Y376;Q13868;Q00994;P25398;Q9BZE9;Q9UDY2;Q9Y4P8;Q8WYR4;P19838;P42025;Q7L9L4;Q99814;Q971F23;Q13409;O14964;O00186;P41220;Q495M9;Q9BYG5;Q96618;Q9H4P4;O15066;Q95295;Q15185;Q9H1K1;P40855;P28289;O60936;Q9UPV0;P57740;P51668;Q9BRA2;Q92748;Q96HA8;P24385;Q9UPQ9;Q13469;P49770;P60228;Q8IUD6;Q14103;Q9H4B6;P83731;P62851;P62280;Q01201;O14862;O95782;O75496;Q15628;Q9Y5K8;Q9P2J5;Q9BV20;Q92844;Q96BT3;Q9Y3U8;Q00978;P62888;P49458;O14531;Q9UL18;Q9UM13;Q9H171;P56945;P63241;Q8TDN4;Q13485;O75175;P62310;Q9UBW7;P60842;Q9NQT5;Q9H0F6;P35606;Q12968;P26651;Q9UIV1;Q86TB9;Q96RT7;O15131;Q7Z6J0;P61981;O00401;A6NK89;Q9UH77;Q6P3S1;Q96JJ3;Q13114;Q9UILL1;P63261;P49591;O95336;P62244;Q9UGJ1;P62277;O75531;P60660;Q9HCM9;P62906;Q92540;O95644;Q7Z5H3;Q9Y285;Q14671;Q9BTE1;P78371;Q9UK45;P62266;Q9BYX4;Q9BZI7;P62945;P05412;Q9H3R5;P53992;O14618;Q9Y4L5;P49207;P62241;Q86W56;Q9UMX2;Q13642;Q9Y3E5;Q14934;P62424;Q04864;O95487;Q9NUQ3;P67870;Q9UJW3;P52948;Q13596;Q6VN20;O14777;Q96IU2;Q86XR8;P60866;Q96GX9;Q9Y244;P61247;P24534;P61077;Q95997;O60573;P55210;Q8TEQ6;Q13144;Q93034;Q9UFF9;O14508;O43617;Q12834;Q14008;P62308;Q9NP71;Q9UQN3;P62899;Q16637;Q8NHY2;P62857;Q9NZD8;O15504;Q13404;P30047;Q96S59;Q9HAT8;Q8NFX5;P42773;Q02878;Q96AC1;P62837;Q9NQP4;Q9NPP4;P11802;Q9NVD7;Q9H8S9;Q5HYK7;Q6PCE3;Q9H0M0;Q9BXX1;Q13541;O75821;Q562F6;Q8IX03;Q9NP79;Q8N5C8;Q9Y6D6;P07814;Q9BU02;P78344;Q9NPA3;Q07020;Q9NXX1;P39023;Q01105;Q01449;Q96TA1;O95429;P23258;O00139;Q96C86;O43255;P30153;P14678;O14556;P30307;Q96EY1;P62854;P35573;Q86SQ7;O95810;P62826;O14641;P52292;P19429;Q9UFN0;P39880;P62917;Q13813;P55884;Q0VDF9;O43708;O43237;Q13352;Q16658;O75688;P60953;Q99717;P08238;O60716;P48643;O00170;Q06520;Q15154;Q15181;P46976;Q7L5D6;P18124;P27986;P40429;P67775;P27635;Q6QNY0;P63208;O15198;P06730;P62263;Q96N21;Q96FJ2;O43324;Q93008;P15259;O95149;Q9NUP1;Q99933;P55735;Q14203;Q13233;P04792;Q8IXH6;Q12982;Q8IV53;Q9UII4;Q9BSJ2;P47914;Q9NPI6;Q9UKG1;P02794;P62701;Q01860;Q9Y5S9;Q9H074;Q6R327;Q9H814;Q14315;P42771;Q9BV73;Q86X55;Q96FS4;O94855;Q8IZH2;Q8WUX9;O14576;Q10567;Q96MP8;Q9BW27;P68104;Q12840;O95190;P11142;Q13094;O75822;Q99873;P62269;Q15102;P10916;P05937;Q8IU60;Q9UPT5;Q96QF0;P49368;Q96CW1;Q09161;O95831;Q15833;O75665;P46783;Q96CW5;Q96G03;Q96SN8;Q99613;Q04637;Q9H1J1;O00303;Q9UQC2;P52294;O15234;O14757;Q9Y314;Q96CF2;Q4G0F5}

- 587 [Cluster 54]GO:0005785+C cellular\_component [name] signal recognition particle receptor complex [def] "A transmembrane heterodimeric protein located in the membrane of the rough endoplasmic reticulum. Both subunits contain GTPase domains with which signal recognition particle interacts. In the presence of GTP and SRP receptor, SRP is released from the ribosome-nascent chain complex." [ISBN
- 588 Pathogen[ Q2Q067] interacts with 2 human partners: {Q8TA86;P49458}
- 589 Pathogen[ P0C214] interacts with 2 human partners: {P49458;Q8TA86}
- 590 Pathogen[ P03346] interacts with 2 human partners: {Q8TA86;P49458}
- 591 Pathogen[ Q85601] interacts with 1 human partners: {Q8TA86}
- 592 Pathogen[ P14079] interacts with 2 human partners: {Q8TA86;P49458}
- 593 Pathogen[ P03383] interacts with 2 human partners: {Q8TA86;P49458}

594 Pathogen[ P03410] interacts with 2 human partners:{P49458;Q8TA86}  
595 Pathogen[ P14075] interacts with 2 human partners:{P49458;Q8TA86}  
596 Pathogen[ P0C206] interacts with 2 human partners:{Q8TA86;P49458}  
597 Pathogen[ P03363] interacts with 2 human partners:{Q8TA86;P49458}  
598 [Cluster 55]GO:0055037+ cellular\_component [name] recycling endosome [def]  
"Organelle consisting of networks of 60nm tubules organized around the microtubule  
organizing centre in some cell types. They transport receptors from late endosomes back  
to the plasma membrane for recycling and are also involved in membrane trafficking." [GOC  
599 Pathogen[ Q2Q067] interacts with 9 human  
partners:{O43747;Q6ICB4;Q9H9C1;Q92562;Q9Y2J4;Q6QNY1;Q9Y3C5;O75154;Q15276}  
600 Pathogen[ P0C214] interacts with 8 human  
partners:{Q6ICB4;Q9Y2J4;Q9Y3C5;Q92562;O43747;Q9H9C1;Q6QNY1;O75154}  
601 Pathogen[ P03346] interacts with 15 human  
partners:{O43747;Q9Y3C5;Q9Y6D5;Q92562;A8K0Z3;Q8N4B1;Q8IWF6;Q6QNY1;Q9Y2J4;Q9UJ41;Q9H9C  
1;Q70J99;O75154;Q6ICB4;Q15276}  
602 Pathogen[ Q85601] interacts with 9 human  
partners:{O75154;Q9Y3C5;O43747;Q92562;Q9UJ41;Q9H9C1;Q6ICB4;Q9Y2J4;Q6QNY1}  
603 Pathogen[ P14079] interacts with 17 human  
partners:{Q92562;Q9H9C1;Q9Y6D5;Q15276;Q6VEQ5;Q9Y2J4;Q9UJ41;Q9H269;Q9NQA3;Q8N4B1;Q6ICB  
4;A8K0Z3;O43747;O75154;Q9Y3C5;Q8IWF6;Q6QNY1}  
604 Pathogen[ P03383] interacts with 7 human  
partners:{Q9H9C1;Q9Y2J4;O43747;Q8IWF6;O75154;Q15276;Q6QNY1}  
605 Pathogen[ P03410] interacts with 19 human  
partners:{Q92562;O75154;Q6QNY1;Q9UJ41;Q9Y2J4;Q8N4B1;O43747;Q8IWF6;Q70J99;Q9Y3C5;Q1504  
9;Q9Y6D5;Q6VEQ5;Q6ICB4;Q9H9C1;Q9H269;Q9NQA3;A8K0Z3;Q15276}  
606 Pathogen[ P14075] interacts with 7 human  
partners:{Q9H9C1;Q9Y2J4;Q6QNY1;O43747;O75154;Q8IWF6;Q15276}  
607 Pathogen[ P0C206] interacts with 14 human  
partners:{O43747;Q92562;O75154;Q6ICB4;Q6QNY1;Q6VEQ5;Q9Y6D5;Q9Y2J4;Q8IWF6;Q9UJ41;Q8N4B  
1;Q9H9C1;Q9Y3C5;Q15276}  
608 Pathogen[ P03363] interacts with 11 human  
partners:{Q9H9C1;Q6ICB4;O43747;Q9Y3C5;Q8IWF6;Q8N4B1;Q9UJ41;Q9Y2J4;Q6QNY1;O75154;Q1527  
6}  
609 [Cluster 56]GO:0070876+ cellular\_component [name] SOSS complex [def] "A protein  
complex that functions downstream of the MRN complex to promote DNA repair and the G2/M  
checkpoint. The SOSS complex associates with single-stranded DNA at DNA lesions and is  
composed of SOSS-B (SOSS-B1/OBFC2B or SOSS-B2/OBFC2A), SOSS-A/INTS3 and SOSS-C/C9orf80."  
[PMID  
610 Pathogen[ Q2Q067] interacts with 4 human partners:{Q96AH0;Q9BQ15;Q9NRY2;Q68E01}  
611 Pathogen[ P0C214] interacts with 4 human partners:{Q96AH0;Q68E01;Q9NRY2;Q9BQ15}  
612 Pathogen[ P03346] interacts with 4 human partners:{Q96AH0;Q68E01;Q9BQ15;Q9NRY2}  
613 Pathogen[ Q85601] interacts with 4 human partners:{Q96AH0;Q68E01;Q9BQ15;Q9NRY2}  
614 Pathogen[ P14079] interacts with 4 human partners:{Q9BQ15;Q96AH0;Q68E01;Q9NRY2}  
615 Pathogen[ P03383] interacts with 4 human partners:{Q68E01;Q9NRY2;Q9BQ15;Q96AH0}  
616 Pathogen[ P03410] interacts with 4 human partners:{Q9BQ15;Q96AH0;Q68E01;Q9NRY2}  
617 Pathogen[ P14075] interacts with 4 human partners:{Q68E01;Q9BQ15;Q96AH0;Q9NRY2}  
618 Pathogen[ P0C206] interacts with 4 human partners:{Q68E01;Q9BQ15;Q9NRY2;Q96AH0}  
619 Pathogen[ P03363] interacts with 4 human partners:{Q96AH0;Q9BQ15;Q68E01;Q9NRY2}  
620 [Cluster 57]GO:0030130+ cellular\_component [name] clathrin coat of trans-Golgi  
network vesicle [def] "A clathrin coat found on a vesicle of the trans-Golgi network."  
[GOC  
621 Pathogen[ Q2Q067] interacts with 6 human  
partners:{O95782;P53675;Q00610;P61966;P09497;P09496}  
622 Pathogen[ P0C214] interacts with 5 human  
partners:{P53675;P09497;P61966;P09496;O95782}  
623 Pathogen[ P03346] interacts with 6 human  
partners:{P61966;O95782;P09496;P53675;P09497;Q00610}  
624 Pathogen[ Q85601] interacts with 6 human  
partners:{P53675;Q00610;P09496;P09497;P61966;O95782}  
625 Pathogen[ P14079] interacts with 6 human  
partners:{P61966;Q00610;O95782;P09497;P53675;P09496}  
626 Pathogen[ P03383] interacts with 4 human partners:{Q00610;P53675;O95782;P09497}  
627 Pathogen[ P03410] interacts with 7 human  
partners:{Q00610;P09496;O95782;Q9UMZ2;P09497;P53675;P61966}  
628 Pathogen[ P14075] interacts with 5 human  
partners:{P09497;P09496;P53675;O95782;Q00610}  
629 Pathogen[ P0C206] interacts with 6 human  
partners:{P53675;P61966;Q00610;P09496;P09497;O95782}  
630 Pathogen[ P03363] interacts with 4 human partners:{Q00610;O95782;P09497;P53675}  
631 [Cluster 58]GO:0071001+ cellular\_component [name] U4/U6 snRNP [def] "A  
ribonucleoprotein complex that contains base-paired U4 and U6 small nuclear RNAs." [GOC  
632 Pathogen[ Q2Q067] interacts with 3 human partners:{O43447;O43172;O94906}  
633 Pathogen[ P0C214] interacts with 3 human partners:{O43172;O94906;O43447}  
634 Pathogen[ P03346] interacts with 3 human partners:{O43172;O43447;O94906}  
635 Pathogen[ Q85601] interacts with 3 human partners:{O94906;O43447;O43172}  
636 Pathogen[ P14079] interacts with 3 human partners:{O43447;O94906;O43172}

637 Pathogen[ P03383] interacts with 3 human partners: {043172;094906;043447}

638 Pathogen[ P03410] interacts with 3 human partners: {094906;043172;043447}

639 Pathogen[ P14075] interacts with 3 human partners: {043172;094906;043447}

640 Pathogen[ P0C206] interacts with 3 human partners: {043172;043447;094906}

641 Pathogen[ P03363] interacts with 3 human partners: {043447;043172;094906}

642 [Cluster 59]GO:0042641+C cellular\_component [name] actomyosin [def] "Any complex of actin, myosin, and accessory proteins." [GOC

643 Pathogen[ Q2Q067] interacts with 2 human partners: {P56524;Q92831}

644 Pathogen[ P0C214] interacts with 3 human partners: {P56524;Q92831;Q92614}

645 Pathogen[ P03346] interacts with 3 human partners: {Q92614;P56524;Q92831}

646 Pathogen[ Q85601] interacts with 3 human partners: {Q92614;Q92831;P56524}

647 Pathogen[ P14079] interacts with 2 human partners: {Q92614;P56524}

648 Pathogen[ P03383] interacts with 2 human partners: {Q92831;P56524}

649 Pathogen[ P03410] interacts with 3 human partners: {Q92831;Q92614;P56524}

650 Pathogen[ P14075] interacts with 2 human partners: {Q92831;P56524}

651 Pathogen[ P0C206] interacts with 3 human partners: {Q92831;Q92614;P56524}

652 Pathogen[ P03363] interacts with 2 human partners: {Q92831;Q92614}

653 [Cluster 60]GO:0033257+C cellular\_component [name] Bcl3/NF-kappaB2 complex [def] "A protein complex containing one Bcl protein and one or more copies of NF-kappaB2\_ formation of complexes of different stoichiometry depends on the Bcl3

654 Pathogen[ Q2Q067] interacts with 2 human partners: {P20749;Q00653}

655 Pathogen[ P0C214] interacts with 2 human partners: {Q00653;P20749}

656 Pathogen[ P03346] interacts with 2 human partners: {P20749;Q00653}

657 Pathogen[ Q85601] interacts with 2 human partners: {Q00653;P20749}

658 Pathogen[ P14079] interacts with 1 human partners: {P20749}

659 Pathogen[ P03383] interacts with 2 human partners: {Q00653;P20749}

660 Pathogen[ P03410] interacts with 2 human partners: {P20749;Q00653}

661 Pathogen[ P14075] interacts with 2 human partners: {Q00653;P20749}

662 Pathogen[ P0C206] interacts with 2 human partners: {P20749;Q00653}

663 Pathogen[ P03363] interacts with 2 human partners: {P20749;Q00653}

664 [Cluster 61]GO:0005576+C cellular\_component [name] extracellular region [def] "The space external to the outermost structure of a cell. For cells without external protective or external encapsulating structures this refers to space outside of the plasma membrane. This term covers the host cell environment outside an intracellular parasite." [GOC

665 Pathogen[ Q2Q067] interacts with 17 human partners: {014786;Q8IVG9;P67809;P01009;Q15046;P40222;P27797;P62328;Q12904;P06396;P08697;P10599;Q8WU39;P06744;Q5JVS0;Q9BZF9;P62937}

666 Pathogen[ P0C214] interacts with 39 human partners: {P08697;P08294;014786;Q12904;Q5JVS0;Q9UK55;095633;P01011;P29622;P36952;P67809;P48594;Q53S33;Q86WD7;P06396;P05121;P29508;P55789;075830;P10124;A8MV23;P05543;P05546;Q49AN0;P07093;P01008;P10909;P05120;P27797;Q99574;P10599;Q9BZF9;Q8WU39;Q9UIV8;Q15046;P40222;Q17RY6;P62328;P80303}

667 Pathogen[ P03346] interacts with 24 human partners: {P80303;Q9Y6R7;Q49AN0;P62937;Q8IVG9;Q5EBL8;Q12904;P67809;Q8WU39;P27797;Q5JVS0;Q92832;P62328;P10599;P01009;P06744;Q9BZF9;P24855;P06396;075398;P40222;075386;095633;014786}

668 Pathogen[ Q85601] interacts with 26 human partners: {P06396;Q5JVS0;Q17RY6;075398;P36952;Q9BZF9;Q49AN0;P01011;P80303;P55145;P06744;P27797;Q15046;014786;P08697;P01009;P10599;P40222;P67809;P05121;P05120;P01008;P62328;P07093;P29508;P62937}

669 Pathogen[ P14079] interacts with 194 human partners: {P04083;P02808;P01215;Q9BQ08;A8MUN3;Q8NHW6;P0CJ70;Q5JVS0;P0CJ74;A1E959;P07498;Q30KQ8;Q8NEB7;P15502;Q7Z5L0;Q8N307;Q30KQ9;Q8WFF1;Q6UW32;Q8WU39;P04279;Q6UXB0;Q02383;Q96KW9;Q5TEV5;P40222;P20809;A8MTW9;Q30KR1;A8MXU0;Q9UHF0;Q9H7Y0;Q6UXV3;P67809;Q8NEX6;P05408;P20396;P15515;Q5T742;Q6P988;Q30KQ7;P27352;Q5JXM2;Q9BT56;Q49AN0;P01225;Q69YU5;Q8IVG9;P0CJ75;Q6UXU1;Q04118;Q96MU5;Q6B9Z1;P0CJ68;094919;P06744;Q6UWK7;P10909;P62937;P60022;Q71RG6;Q9UIG4;Q6UXQ8;Q8NEV9;Q14118;Q6UW78;P0CJ77;Q7Z4B0;Q8IUG1;P06280;Q9UF72;Q14667;Q8N5W8;Q9NS71;095156;Q8N104;Q17RY6;P55081;Q9P1C3;P80303;P0C854;015263;Q0P5P2;A6ND2;Q9Y287;P15516;075690;Q15046;Q8IUH2;Q6UXQ6;075200;P03973;Q8NFM4;E0CX11;Q6ZRZ4;Q15726;Q92832;Q6UWF9;P0CJ69;Q6UXQ4;Q9NQ76;Q6UWT2;Q9H1M4;P62328;Q96I85;P11686;094964;P24855;Q30KQ1;Q17RF5;P05814;P0CJ72;Q9GZZ8;Q969H8;Q6UWT4;Q6NSX1;P55789;P04141;043612;P13232;P10124;P81172;Q6UWQ7;Q16378;Q6UXP8;Q8IU54;Q7Z7B8;Q8IZN7;Q13316;Q9NZ20;Q6UX46;Q8N7Q2;Q6UXR6;Q96QR1;Q6ZR5;Q2M2E5;P02810;C9J442;Q4QY38;095760;Q5VUM1;Q8TD06;Q9BUN1;Q8WZ79;Q99541;Q9BZF9;Q07627;Q4W5P6;Q8TAX7;P10163;Q8N729;P10599;Q6UWP8;P29459;Q9NZV5;Q9H972;Q9Y6Y9;Q9BT30;Q7Z7B7;P15941;Q5BLP8;Q12904;Q6UXB1;Q9Y426;Q86SH4;Q6EBC2;P81277;Q96LU7;P0CJ76;Q6URK8;Q8WUF8;Q53S33;Q30KQ6;Q9HAT2;P04280;Q8NET1;Q8NG41;Q6MZM9;P0CJ71;P0DJI8;P02729;Q8N688;Q8NFR9;Q5SRR4;P59861;C9JXX5;Q96L11;Q30KP9;A6NHN6;Q9H6E4;P81534;Q9BYX7;P05060;Q8TAT2}

670 Pathogen[ P03383] interacts with 26 human partners: {Q17RY6;Q5JVS0;Q12904;P36952;Q9BZF9;P62328;P08697;P62937;P10599;P01009;P01008;P06744;Q15046;P55145;Q8WU39;Q07627;P40222;P10124;Q53S33;P01215;P67809;Q8IUG1;Q8IVG9;P15502;P27797;P06396}

671 Pathogen[ P03410] interacts with 206 human partners: {014786;Q30KP8;Q15726;P02810;Q9BT56;Q6UXR6;P04141;Q30KR1;Q2M2E5;Q17RF5;Q7Z7B7;P07498;075690;P05121;Q7Z4B0;014960;Q96KW9;Q96QR1;Q8NEB7;P10599;Q30KP9;Q6NSX1;P0DJI8

;Q4QY38;P02808;Q6UXU1;P80303;P0C854;Q765I0;P06744;P47710;A6NHN6;P59861;Q8NG41;P62328;Q8N688;P12018;O94964;Q13072;Q6ZRZ4;Q8N729;O43612;P02729;Q71RG6;Q7Z5L0;P0CJ75;Q8IUB3;Q9GZZ8;Q6UXV3;Q96MU5;Q6UWT2;Q6UX46;P15941;P06396;Q8NEX6;Q7Z7B8;Q9H1F0;Q969E1;Q4G0G5;Q3OKQ1;P10124;P10645;Q8N307;Q5JTB6;Q8N5W8;P20809;Q86Y27;P0CJ70;Q6EBC2;Q5TEV5;Q69YU5;Q9H972;Q9Y287;P02766;Q9HAT2;P60022;A6NJ69;Q9YQB4;Q8TAX7;P05060;Q6UXQ8;Q8IVG9;Q6P988;P01215;Q8N7Q2;C9JXX5;P0CJ71;Q30KQ6;P02812;Q5T742;Q92832;Q6UXQ6;Q9NS71;Q96I85;O95760;Q6UXQ4;Q12904;Q6UWF9;P0CJ74;P67809;O95158;Q8IZN7;P0CJ76;Q96DR8;P62937;Q6UWT4;P15502;Q8TAT2;P11686;P08697;Q969D9;P0CJ68;Q86SH4;Q9NRR1;Q9UHF0;Q6UW32;Q6URK8;Q9UIG4;Q5JVS0;Q5VUM1;Q02383;Q9UF72;Q8NHW6;P05408;Q8NEV9;P81172;Q16378;P36952;Q15046;P0CJ72;P15515;Q8WU39;Q14118;Q49AN0;Q6UWQ7;Q96A98;Q9NZ20;Q6UW10;Q9Y334;Q6UWK7;Q6UWP8;Q9NQ76;Q9BT30;Q9Y6Y9;P0CJ73;P15516;P0CJ69;Q9BZF9;Q8NFU4;Q86Y28;Q9Y426;P04279;Q6UXB1;Q5BLP8;Q8N104;Q8IUG1;Q86TE4;Q04118;Q5J5C9;A8MTW9;P10163;Q07627;Q30KQ9;Q5JXM2;Q96L11;Q9NRM1;P01009;A1E959;P81277;Q6UXP8;P40222;Q6MZM9;Q99935;Q14507;P55789;Q6ZRU5;A8MUN3;P27352;Q6UW78;Q15517;Q8NFR9;Q9P1C3;Q9NRJ3;Q30KQ7;P04280;P24855;Q30KQ8;P29459;P81534;O15263;Q95994;E0CX11;Q6B9Z1;P05814;O95156;Q53S33;Q9BQ08;P10909;P01011;P13232;Q13316;P20396;Q9NZV5;P27797;Q8TD06;P0CJ77}

672 Pathogen[ P14075] interacts with 40 human partners:{Q8WU39;P06744;Q07627;P05060;P62328;P40222;P02810;P04280;Q8IVG9;P01009;Q17RY6;P15515;Q96QR1;Q8TAX7;Q12904;Q6UW32;Q5JVS0;P27797;Q8NDX9;P67809;P06396;P08697;Q9UIG4;P15502;P55789;P02812;P20809;P62937;Q8IUG1;Q9BZF9;Q9GZZ8;Q9NS71;P10124;P01215;Q9Y287;Q15046;P02808;Q53S33;O75690;P10599}

673 Pathogen[ P0C206] interacts with 64 human partners:{Q9BT56;P0CJ74;P67809;P0CJ71;P06396;P0CJ76;P55789;P27797;P01008;Q07627;P0CJ72;Q9Y287;O95633;O94964;P15502;P62328;P0CJ75;P80303;Q8TD06;O75690;Q13316;Q8N729;P0CJ69;P0CJ73;P01009;P55145;P24855;P36952;O14786;P06744;P05060;Q5JVS0;P15515;Q7Z7B7;Q17RY6;Q8IVG9;P01215;P40222;P10909;P20809;P02810;Q17RF5;Q8WU39;P02808;P07498;P05121;Q53S33;Q92832;O75398;P01011;P10599;Q9BZF9;P20396;Q49AN0;P62937;P0CJ68;P10124;P0CJ70;Q8IUG1;Q8TAX7;Q12904;P0CJ77;P08697;Q15046}

674 Pathogen[ P03363] interacts with 28 human partners:{P02808;P62937;P06744;O14786;P62328;P15515;Q8N302;P19883;Q8TD06;P40222;Q9Y6R7;P36952;P06396;Q9BZF9;Q92832;Q49AN0;P27797;Q5JVS0;P07998;P02766;P05060;O75398;Q8IVG9;O75386;Q8WU39;Q8N729;P24855;P67809}

675 [Cluster 62]GO:0030659+cellular\_component [name] cytoplasmic vesicle membrane [def] "The lipid bilayer surrounding a cytoplasmic vesicle." [GOC

676 Pathogen[ Q2Q067] interacts with 21 human partners:{Q9Y6Q5;Q10567;P56377;O43747;Q96B97;Q92572;Q6RW13;P53675;O95295;Q96EV8;Q7L804;Q96PC3;O15049;Q92624;Q00610;P61966;O75843;Q9BXS5;Q8WV24;P09497;P09496}

677 Pathogen[ P0C214] interacts with 22 human partners:{Q92624;Q6RW13;P59780;O95295;O75843;Q7L804;Q9BY43;O15049;Q10567;Q92572;P53675;P56377;Q96PC3;Q96EV8;O43747;Q9Y6Q5;P09497;P61966;P09496;Q8WV24;Q9BXS5;Q96B97}

678 Pathogen[ P03346] interacts with 32 human partners:{P61966;Q96B97;Q8WV24;Q15036;O95295;O43747;Q92572;Q92543;P56377;P59780;Q9BXS5;Q93050;P09496;Q9NRS6;Q10567;O75843;Q7L804;O15049;Q9UNH7;Q96EV8;Q96PC3;P53675;P30622;Q9ULV0;P09497;Q9BY43;Q6RW13;Q9Y6Q5;Q9ULU8;Q92624;Q00610;Q15363}

679 Pathogen[ Q85601] interacts with 27 human partners:{P53675;O75843;Q00610;P09496;Q8WV24;Q7L804;O95295;Q15036;Q9BXS5;P56377;Q93050;P30622;O43747;Q10567;Q92624;O15049;Q9BY43;Q96EV8;Q96B97;Q6RW13;Q96PC3;P09497;Q92572;P61966;P59780;Q9Y6Q5;Q9UNH7}

680 Pathogen[ P14079] interacts with 34 human partners:{Q7L804;Q9UNH7;Q9Y6Q5;Q15036;P61966;Q9BXS5;Q8WV24;Q00610;Q9BY43;Q10567;Q9ULU8;Q6RW13;P56377;P59780;Q92624;Q9NRS6;Q96B97;Q92572;Q15363;O75843;Q9NPB0;O15049;P09497;Q8TF30;O95295;Q93050;O43747;Q96AW1;P53675;Q92543;Q96EV8;Q96PC3;P09496;P30622}

681 Pathogen[ P03383] interacts with 16 human partners:{Q7L804;Q6RW13;P56377;Q00610;Q92572;O95295;Q10567;P53675;Q96EV8;O75843;O43747;Q9BXS5;O15049;P09497;Q92624;Q8WV24}

682 Pathogen[ P03410] interacts with 36 human partners:{Q00610;P09496;Q9Y6Q5;Q7L804;Q96PC3;P30622;Q9BXS5;O43747;O75843;Q9ULV0;Q96AW1;Q9NPB0;Q10567;Q92572;Q93050;Q9BY43;O15049;Q8TF30;O95295;Q9UNH7;O60333;Q92624;Q8WV24;P09497;Q15363;Q15036;Q9ULU8;Q9NRS6;Q6RW13;Q96B97;P59780;P53675;P61966;P56377;Q96EV8;Q92543}

683 Pathogen[ P14075] interacts with 17 human partners:{P09497;P09496;O95295;P53675;Q8WV24;Q92624;Q7L804;O43747;Q92572;Q96EV8;O75843;P56377;Q9BXS5;Q6RW13;O15049;Q10567;Q00610}

684 Pathogen[ P0C206] interacts with 31 human partners:{Q8TF30;P53675;Q9Y6Q5;Q92572;Q9UNH7;O43747;Q10567;Q9NRS6;Q96B97;P61966;Q00610;P30622;Q15036;P09496;Q92624;P59780;Q9ULU8;Q9BXS5;Q6RW13;P09497;Q96EV8;O15049;O95295;Q9BY43;O75843;Q7L804;Q15363;Q96PC3;P56377;Q93050;Q8WV24}

685 Pathogen[ P03363] interacts with 18 human partners:{Q9UNH7;Q7L804;Q92543;O43747;Q96B97;Q8WV24;O15049;Q00610;Q9BXS5;Q92572;P30622;Q92624;O95295;O75843;O60333;P09497;P53675;Q10567}

686 [Cluster 63]GO:0008024+cellular\_component [name] positive transcription elongation factor complex b [def] "A transcription elongation factor complex that facilitates the transition from abortive to productive elongation by phosphorylating the CTD domain of the large subunit of DNA-directed RNA polymerase II, holoenzyme. Contains cyclin T and a cyclin-dependent protein kinase catalytic subunit." [PMID

687 Pathogen[ Q2Q067] interacts with 1 human partners:{Q15545}

688 Pathogen[ P0C214] interacts with 1 human partners:{Q15545}

689 Pathogen[ P03346] interacts with 1 human partners:{Q15545}

690 Pathogen[ Q85601] interacts with 1 human partners:{Q15545}

691 Pathogen[ P14079] interacts with 1 human partners:{Q15545}

692 Pathogen[ P03383] interacts with 1 human partners:{Q15545}

693 Pathogen[ P03410] interacts with 1 human partners:{Q15545}

694 Pathogen[ P14075] interacts with 1 human partners:{Q15545}

695 Pathogen[ P0C206] interacts with 1 human partners:{Q15545}

696 Pathogen[ P03363] interacts with 1 human partners:{Q15545}

697 [Cluster 64]GO:0030424+C cellular\_component [name] axon [def] "The long process of a neuron that conducts nerve impulses, usually away from the cell body to the terminals and varicosities, which are sites of storage and release of neurotransmitter." [GOC

698 Pathogen[ Q2Q067] interacts with 19 human partners:{O14786;P07196;P41219;Q9H2P0;Q99497;Q9UBB6;Q96EV8;P38935;P09972;Q9NZJ4;Q9UQF2;Q86WG3;P12036;Q99689;P08670;Q9Y252;P08397;P42224;P07197}

699 Pathogen[ P0C214] interacts with 28 human partners:{Q9UBB6;P60709;P05937;O14786;Q9UM54;P62166;P41219;P42224;A0MZ66;Q99497;Q8NEJ9;P38935;P08397;Q9NZJ4;P35580;P08670;Q99689;Q96EV8;Q9Y252;P09972;Q9UQF2;P12036;Q7Z406;P07197;Q86WG3;P63261;P07196;Q9H2P0}

700 Pathogen[ P03346] interacts with 28 human partners:{P09972;O75592;P38935;P07196;P78415;Q9H2P0;Q6TFL4;Q99689;P60709;Q9NZJ4;P05937;Q93045;P07197;P12036;Q8NEJ9;Q96EV8;P41219;P42224;Q99497;P62166;P08670;Q9UQF2;Q9UBB6;Q9C0H9;Q9Y252;P58546;O14786;Q86WG3}

701 Pathogen[ Q85601] interacts with 27 human partners:{Q99497;P07196;P08670;P12036;P38935;O14786;Q9UQF2;P60709;Q96EV8;Q7Z406;P63261;P09972;Q9H2P0;P41219;P42224;Q9BVA0;Q99689;Q9Y252;Q86WG3;P07197;P08397;P35580;Q9NZJ4;Q9UM54;P17677;P62166;Q9GZM8}

702 Pathogen[ P14079] interacts with 37 human partners:{P05937;P63261;P17677;Q86WG3;P41219;Q9NZJ4;O75781;Q9UQF2;P12036;A0MZ66;Q99497;P09972;Q9H2P0;Q9UM54;Q9C0H9;P07196;Q9H269;Q15078;Q93045;Q99689;Q9UBB6;P07197;P08397;Q9NZ72;P62166;P60709;Q9GZM8;O75366;P42224;P47874;P38935;Q96EV8;P08670;Q8NEJ9;Q9BVA0;Q6IQ19;P10636}

703 Pathogen[ P03383] interacts with 16 human partners:{Q9UBB6;P08670;Q86WG3;P12036;Q99689;P09972;Q9UQF2;Q96EV8;P41219;P07197;P07196;P35580;Q9Y252;P08397;P38935;Q9C0H9}

704 Pathogen[ P03410] interacts with 35 human partners:{O14786;O75781;P12036;Q99497;P08397;Q9GZM8;Q86WG3;Q8NEJ9;A0MZ66;P07196;P41219;Q9UM54;P38935;P09972;Q6IQ19;Q9NZJ4;P05937;Q9UBB6;P08670;P10636;P35580;Q9NZ72;P17677;P63261;Q9UQF2;Q9C0H9;P62166;Q9H269;P47874;Q96EV8;Q93045;P60709;Q9BVA0;P07197;Q99689}

705 Pathogen[ P14075] interacts with 17 human partners:{Q8NEJ9;Q86WG3;Q9Y252;P38935;P08397;P41219;P12036;Q6IQ19;Q9UBB6;P08670;Q96EV8;P07197;P09972;P07196;Q9C0H9;Q9UQF2;Q99689}

706 Pathogen[ P0C206] interacts with 34 human partners:{P60709;Q9UM54;Q9BVA0;P07196;P38935;P17677;P62166;P41219;Q9NZJ4;Q99497;Q9UQF2;P10636;Q9GZM8;O14786;Q8NEJ9;Q99689;P12036;Q93045;Q96EV8;P63261;Q6IQ19;Q9NZ72;Q9UBB6;A0MZ66;Q9C0H9;P09972;P08670;Q9H2P0;P08397;Q86WG3;Q9Y252;P42224;P35580;P07197}

707 Pathogen[ P03363] interacts with 25 human partners:{Q9Y252;P07197;P78415;Q9UBB6;P60709;Q9NZJ4;O14786;Q9UQF2;Q9H2P0;P09972;Q9NVA2;Q93045;P07196;Q86WG3;Q6IQ19;P08670;P41219;P63261;Q6TFL4;P12036;Q8NEJ9;P38935;P05937;Q99689;Q9C0H9}

708 [Cluster 65]GO:0030915+C cellular\_component [name] Smc5-Smc6 complex [def] "A conserved complex that contains a heterodimer of SMC proteins (Smc5p and Smc6p, or homologs thereof) and several other proteins, and is involved in DNA repair and maintaining cell cycle arrest following DNA damage. In *S. cerevisiae*, this is an octameric complex called Mms21-Smc5-Smc6 complex, with at least five of its subunits conserved in fission yeast and humans." [GOC

709 Pathogen[ Q2Q067] interacts with 5 human partners:{Q8IY18;Q8N140;Q96MG7;Q96MF7;Q9NXX6}

710 Pathogen[ P0C214] interacts with 5 human partners:{Q8IY18;Q9NXX6;Q96MF7;Q96MG7;Q8N140}

711 Pathogen[ P03346] interacts with 6 human partners:{Q96MF7;Q96MG7;Q8WV22;Q8N140;Q8IY18;Q9NXX6}

712 Pathogen[ Q85601] interacts with 6 human partners:{Q8IY18;Q96MG7;Q8N140;Q9NXX6;Q8WV22;Q96MF7}

713 Pathogen[ P14079] interacts with 5 human partners:{Q96MF7;Q8N140;Q8IY18;Q96MG7;Q9NXX6}

714 Pathogen[ P03383] interacts with 4 human partners:{Q9NXX6;Q96MF7;Q8N140;Q96MG7}

715 Pathogen[ P03410] interacts with 5 human partners:{Q9NXX6;Q96MF7;Q96MG7;Q8IY18;Q8N140}

716 Pathogen[ P14075] interacts with 4 human partners:{Q8N140;Q9NXX6;Q96MF7;Q96MG7}

717 Pathogen[ P0C206] interacts with 6 human partners:{Q8N140;Q8WV22;Q96MG7;Q96MF7;Q8IY18;Q9NXX6}

718 Pathogen[ P03363] interacts with 6 human partners:{Q9NXX6;Q8N140;Q8WV22;Q96MG7;Q8IY18;Q96MF7}

719 [Cluster 66]GO:0032982+C cellular\_component [name] myosin filament [def] "A protein complex containing myosin heavy chains, plus associated light chains and other proteins,

in which the myosin heavy chains are arranged into a filament." [GOC  
720 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9UKX2;P12883}  
721 Pathogen[ P0C214] interacts with 10 human  
partners:{A7E2Y1;Q9UKX2;Q9Y2K3;P11055;P13535;P12882;P12883;P13533;Q9Y623;P35749}  
722 Pathogen[ P03346] interacts with 1 human partners:{Q9UKX2}  
723 Pathogen[ Q85601] interacts with 9 human  
partners:{P13533;Q9UKX2;Q9Y2K3;P12882;P11055;P35749;P12883;P13535;Q9Y623}  
724 Pathogen[ P14079] interacts with 2 human partners:{Q9UKX2;P12883}  
725 Pathogen[ P03383] interacts with 2 human partners:{Q9UKX2;P12883}  
726 Pathogen[ P03410] interacts with 5 human  
partners:{Q9UKX2;P12882;P12883;P13533;P13535}  
727 Pathogen[ P14075] interacts with 1 human partners:{Q9UKX2}  
728 Pathogen[ P0C206] interacts with 8 human  
partners:{P13533;Q9Y623;P11055;P12883;P12882;P35749;Q9UKX2;P13535}  
729 Pathogen[ P03363] interacts with 1 human partners:{Q9UKX2}  
730 [Cluster 67]GO:0043625+C cellular\_component [name] delta DNA polymerase complex [def]  
"A multimeric DNA polymerase enzyme complex which differs in composition amongst species\_ in humans it is a heterotetramer of four subunits of approximately 125, 50, 68 and 12kDa, while in *S. cerevisiae*, it has three different subunits which form a heterotrimer, and the active enzyme is a dimer of this heterotrimer. Functions in DNA replication, mismatch repair and excision repair." [GOC  
731 Pathogen[ Q2Q067] interacts with 1 human partners:{Q15054}  
732 Pathogen[ P0C214] interacts with 1 human partners:{Q15054}  
733 Pathogen[ P03346] interacts with 1 human partners:{Q15054}  
734 Pathogen[ Q85601] interacts with 1 human partners:{Q15054}  
735 Pathogen[ P14079] interacts with 2 human partners:{Q5QGS0;Q15054}  
736 Pathogen[ P03383] interacts with 1 human partners:{Q15054}  
737 Pathogen[ P03410] interacts with 2 human partners:{Q5QGS0;Q15054}  
738 Pathogen[ P14075] interacts with 1 human partners:{Q15054}  
739 Pathogen[ P0C206] interacts with 1 human partners:{Q15054}  
740 Pathogen[ P03363] interacts with 1 human partners:{Q15054}  
741 [Cluster 68]GO:0005794+C cellular\_component [name] Golgi apparatus [def] "A compound membranous cytoplasmic organelle of eukaryotic cells, consisting of flattened, ribosome-free vesicles arranged in a more or less regular stack. The Golgi apparatus differs from the endoplasmic reticulum in often having slightly thicker membranes, appearing in sections as a characteristic shallow semicircle so that the convex side (cis or entry face) abuts the endoplasmic reticulum, secretory vesicles emerging from the concave side (trans or exit face). In vertebrate cells there is usually one such organelle, while in invertebrates and plants, where they are known usually as dictyosomes, there may be several scattered in the cytoplasm. The Golgi apparatus processes proteins produced on the ribosomes of the rough endoplasmic reticulum\_ such processing includes modification of the core oligosaccharides of glycoproteins, and the sorting and packaging of proteins for transport to a variety of cellular locations. Three different regions of the Golgi are now recognized both in terms of structure and function  
742 Pathogen[ Q2Q067] interacts with 219 human  
partners:{P04156;Q7Z3C6;O43290;Q8IUD2;O15027;P35908;Q9H2G9;Q8WWX9;Q9BZE4;Q8IZL2;Q9Y6D6;Q9Y6Q5;Q10567;Q9Y615;O15126;Q7Z6J0;P56377;Q92681;Q9Y266;Q63HQ0;Q13033;O60664;O43747;P63172;O00291;Q13887;Q92572;O43493;Q8IZH2;Q9H2K2;Q9C005;Q6RW13;O14579;Q7Z6B0;Q7Z460;O14503;Q9UKX2;Q9NR48;Q6XQN6;Q9BQA1;Q15596;O95295;Q9BSW2;Q6VY07;Q15554;O60260;Q9H1H9;Q5JTD0;Q9P299;P08729;Q14204;O75865;Q96P71;Q9NZD8;Q9UJY4;O75081;O00257;Q9UJY5;A8MVW5;Q8IV36;Q14511;Q9UP83;O43752;Q9NZI5;O14662;Q86XR8;Q8IUR0;O43617;P83436;P36956;Q8N1B4;Q86SZ2;Q9NVX0;Q9H8Y8;Q9HCH5;Q96CN9;Q5T7V8;Q6ZRS2;Q9NY61;P48444;P02511;Q08378;P52594;Q96SN8;Q14457;O00189;O95359;Q8NF91;Q9BV47;Q9NZC7;Q8TCI5;Q8IY31;Q8WUY3;Q9BV57;Q96PC3;P07902;P78545;Q9BUX1;Q7Z2W4;Q8IX03;P31948;O43823;Q6ICB4;P27797;Q9UQL6;Q9Y3M2;P61923;Q12959;P60520;O15162;O95159;Q13137;Q14CS0;O75396;O15127;P17987;P53677;Q05084;Q15047;Q9UBF2;Q9BSU3;P11171;Q9H8T0;Q16143;Q9H9H5;Q14746;P61966;Q9UL33;Q5VIR6;Q15437;Q15643;P53992;Q9UKJ5;Q8TBZ0;Q92562;O95486;Q12904;Q7RTS9;O75843;P29474;Q99732;Q96JB2;O94855;P82094;Q00587;P0DI81;Q53GL7;Q9BUL8;Q99550;Q9UILL1;P0DI82;Q96CV9;Q8IWI2;Q14677;O95810;Q9Y2T2;Q8TD16;Q5VU43;Q13439;Q08379;Q9BRS8;Q9BXS5;P53041;Q99996;Q96JE7;Q13618;Q969S3;Q9NZU7;O75122;Q9H4A6;Q8TAC9;Q9UN36;Q56P03;Q9C035;O95373;P53618;O95996;P21399;Q9BVW5;Q9Y2M5;Q15545;Q969H0;O95271;Q6ULP2;Q5HYK7;O15155;Q9NR09;O60763;O00161;Q9NWB7;O95487;Q99700;O75558;P35606;Q8WTV3;Q49MG5;Q96RN5;Q9Y678;Q9H4A5;Q9BVN2;Q86VS8;Q9Y296;Q9P2W9;Q9NVV4;Q15691;Q9Y250;Q9UQR1;Q15436;Q9H9E3;O75674;Q9Y3A3;Q9NZ52;Q9P1T7;Q13367;O60921;Q9ULD2;Q9HBQ8;Q9NX95;Q03938}  
743 Pathogen[ P0C214] interacts with 241 human  
partners:{Q9NWB7;Q14457;P60520;P29474;Q9UM00;Q6ICB4;P61923;P08729;Q8IWI2;O75865;Q8IX03;Q969S3;Q5JTD0;Q9Y615;Q14746;Q7Z6J0;Q13887;Q12904;O95810;Q9P299;Q9H4A6;Q15047;Q8IY31;Q8N2H4;Q8TBZ0;Q8WUY3;Q9UKX2;Q9BV47;Q6RW13;P53992;Q9H9E3;P62993;P59780;Q9UJY5;Q8IZL2;P02511;Q08379;Q9UKJ5;O95295;Q15554;Q8TAC9;Q9UM54;O14579;Q9C035;Q8WWX9;Q96SN8;Q9Y2T2;Q9BV57;P62166;O00189;Q13367;P53618;A8MVW5;Q8IV36;Q13033;P35606;Q6ZRS2;P48444;Q9BVW5;Q9NZI5;Q9BSU3;Q8TCI5;P83436;Q8NCE8;Q6XQN6;Q9HCH5;Q14204;Q5HYK7;O43493;Q13618;O15127;Q9BUL8;Q08378;Q9Y296;O43617;Q15691;P35908;P31948;Q15545;O60551;Q9NY61;Q15436;Q9Y266;Q96Q05;Q8IUR0;Q8WXG1;Q99700;Q92562;Q7Z2W4;O75843;Q9Y2G5;Q9NZC7;O95359;Q9Y250;Q96CN9;O14503;Q8IZH2;P82094;O60921;Q10567;Q13137;O75122;Q92681;Q96RN5;Q99732;Q53GL7;Q86VS8;Q92572;Q9H8Y8;Q8NF91;P10124;Q9UBF2;O95487;Q5VU43;P49257;Q9H8T0;Q9UJY4;Q9NZD8;Q9H9H5;O15126;Q9Y3M2;O15162;Q9BRS8;P53677;Q9BUX1;Q86XR8;P56377;Q15437;Q9Y2M5;Q9BZQ4;Q6VY07;Q9C005;Q

7RTS9;Q15643;O00257;Q9H2G9;O43823;Q9BQQ3;Q96PC3;Q9U1L1;Q9ULD2;P0DI81;Q99550;Q9NZ52;Q56P03;Q7Z6B0;Q96P71;Q8TD16;Q9NZU7;Q9P1T7;Q9NX95;Q96CV9;O43752;P53041;Q8N1B4;O60763;Q969H0;Q12959;Q14511;Q9H2K2;Q9HD26;O43747;Q9NV92;Q5VIR6;Q9H4A5;Q96G01;Q9Y6Q5;Q9BVN2;P04156;P63172;Q5T7V8;P27797;Q5VZ66;Q13439;Q7Z460;P07902;Q9BSW2;Q9UP83;O75396;Q6ULP2;Q9Y6D6;Q9UJH9;Q9NR09;O43290;Q16143;O60664;P17987;Q9NR48;O15144;P61966;O60260;Q176083;O14727;P78545;Q5T215;Q05084;P52594;Q9Y3A3;Q9BZE4;O75558;Q9HBQ8;Q96EK6;Q99996;Q15596;O75674;O95271;Q9BWX1;Q63HQ0;Q96JE7;Q8IUD2;P21399;Q9Y678;Q9UQR1;Q9NVX0;Q9NVV4;Q96JB2;Q96CA5;O95373;Q9UL33;Q9UN36;Q9BXS5;O00161;Q14CS0;O15155;O15027;O75081;Q9UQL6;O95486;O00291;P11171;Q14677;Q49MG5;P80303;P0DI82;Q86SZ2;Q8WTW3;Q7Z3C6;Q9P2W9;P36404;O94855;Q03938}

744 Pathogen[ P03346] interacts with 306 human partners: {O95166;Q13439;O60921;Q92681;Q13596;Q96G01;Q969S3;Q9H4A5;O60664;Q96CN9;P08729;Q9H5Y0;P61966;Q5VIR6;O43752;Q14746;O95159;Q08AF8;A8MS94;Q7Z3C6;Q9P2W9;O15027;Q9H2G9;O43290;Q08379;P80303;Q8NBJ4;Q9Y5R8;Q9Y6B7;P0CG33;Q99598;Q86XR8;Q14511;Q9UP83;Q9P2K5;Q96A65;Q9BUX1;Q9C005;Q86VS8;Q9UQR1;P59103;Q96P71;Q9BSU3;P29474;Q96JB2;Q15036;Q9BZE4;P36956;Q9Y3M2;O15144;Q9BQA1;Q92622;Q7Z6J0;O95295;Q15554;Q8IY31;O43747;Q9U1L1;Q92572;Q96MW5;P60520;Q56P03;Q12772;Q9BV57;Q15691;P82094;Q8I1V1;Q9H4A6;P49257;P56377;A8MVW5;Q53GL7;Q9NZU7;Q8IV36;Q14789;Q49MI3;Q9Y6D5;O95359;O75865;Q969X5;P59780;Q13618;Q8WTW3;Q8IUD2;Q9BXS5;Q86SZ2;Q9Y678;Q9NX95;P53618;Q9NZD8;Q9HCH5;P31948;Q9H1H9;Q9C035;Q13190;Q00587;Q08378;Q8IX03;Q93050;P62993;Q14457;O75396;O00257;Q9NZI5;Q14204;Q8I2E3;Q6XZF7;Q9P299;O14579;O00189;Q05084;Q92562;Q9NV92;O00291;Q9UKJ5;Q6P3W7;Q9UID3;A6NDN3;Q53HI1;Q8WWW9;Q93045;Q9BV47;O94855;O14503;Q8IZH2;Q7Z6B0;Q9HOR8;Q9Y371;P35908;Q6XQNG;P48553;Q5JTD0;Q13137;Q14CS0;Q9Y266;Q9Y2V7;Q7L4P6;Q9Y6D6;Q9H2K2;Q99700;Q10567;O00161;Q15643;Q12904;O75843;P11171;Q9NVX0;P48444;Q96CV9;P20340;Q96AA8;Q9H8T0;P02511;Q15436;Q8IYM9;Q9H9H5;Q9H9E3;Q8N4B1;Q9UL33;Q9UPM8;Q8TAC9;Q13033;O00221;Q8TBZ0;Q5T215;Q15596;Q15437;Q9Y3A3;Q9NB7;Q9HD26;Q9Y296;Q9Y587;Q96SN8;Q96JE7;O95373;Q8N2H4;Q96Q05;Q9Y2L5;Q7RTS9;Q9NZC7;P52594;Q9UBF2;Q9H8Y8;Q96PC3;Q9NVV4;P0DI81;Q9Y250;Q9UJY4;Q9P1T7;Q8N1B4;P51161;P36404;Q5JSH3;Q8TD16;Q16143;P61923;P53041;Q9ULD2;Q13887;P63172;O95810;O15126;O60763;O95996;Q8IUR0;P62166;Q6ZRS2;O75122;O95486;P27797;Q9BQQ3;Q8WUY3;P83436;Q13492;Q08AE8;P0DI82;O60260;Q8N357;P36405;Q5T7V8;Q99996;A6NCC3;Q13367;O95271;Q5VZ66;Q15047;P10768;Q6ULP2;Q5HYK7;Q99550;Q9NR09;P04156;P50542;Q9UKX2;Q9HC24;Q8TCI5;Q9BSW2;Q9BVN2;O95487;Q96KG9;O14617;Q9UI14;Q7Z460;O43493;Q8NCE8;Q7Z392;Q13029;Q6RW13;Q9P1T7;Q9UJY5;Q96JE9;Q9UJY5;Q9Y2M5;Q8TEY5;Q9NR48;P49755;P78545;O75558;O75674;Q9Y6Q5;Q5VU43;Q15545;P21399;Q6ICB4;Q63HQ0;Q9UN36;P35606;Q8NF91;Q96CA5;Q14677;Q969H0;O15155;Q9BVW5;Q9HBQ8;Q9BRS8;Q6VY07;Q9BWX1;Q9NZ52;Q9Y615;O14727;O14662;Q9BUL8;O43823;Q9UQL6;O75081;Q96RN5;Q9HBF4;Q9NRD5;P53992;Q15363;Q92834;Q9BVK6;P53677;Q8IZL2;Q8I1WJ2;O43617;Q86Y82;Q9Y2T2;O15127;Q9NUK0;Q7Z2W4;Q12959;Q03938;Q99732;P17987;O15162}

745 Pathogen[ Q85601] interacts with 262 human partners: {Q9UQR1;Q13367;Q14457;Q13596;Q9H4A5;O60664;Q96CN9;Q63HQ0;Q9NZC7;Q9Y250;P08729;Q8I1WJ2;Q15643;O15126;O43493;Q14746;Q5T7V8;Q9BQA1;Q96CV9;O75843;Q56P03;Q9NZU7;O15027;P48444;Q9Y2T2;P62993;P10768;P36405;Q9P2K5;Q96A65;Q9BUX1;Q8N2H4;Q86VS8;Q969H0;Q9UJY4;Q9BQQ3;O75396;Q9UN36;Q5HYK7;Q9UL33;Q9BZE4;Q5JSH3;Q9UQL6;O14579;O95487;P21399;Q9Y3M2;Q13439;Q9NY61;O95295;Q8TAC9;Q15554;O95166;O60763;P51161;Q96JE7;Q9BUL8;Q96SN8;Q15036;Q9UP83;Q9BXS5;Q9NR48;P56377;Q9NVX0;A8MVW5;Q9HBF4;Q9P299;O15155;Q9NWB7;Q8IV36;Q9UJH9;Q93050;Q9H0R8;A6NCC3;Q49MG5;P78545;Q9BVN2;Q15545;P80303;Q7Z2W4;Q14204;Q12772;Q9HCH5;Q96JB2;O43747;P61923;P31948;P83436;Q9H1H9;Q9UPM8;O14503;Q08378;Q9Y296;Q9NP61;P27797;Q9BRS8;P11171;Q92834;Q5VIR6;P17987;Q92562;O60551;P52594;Q15596;Q10567;P63172;Q9P2W9;Q9UJY5;Q15436;O43617;Q9BV57;Q8WTW3;Q9BV47;Q8IZH2;Q7Z3C6;O43752;Q6XQNG;Q5VSY0;Q8TCI5;Q13137;O75122;Q8N6H7;Q14677;Q9Y266;Q5T215;Q7Z6J0;Q86XR8;Q9UKX2;Q9H2K2;Q8NCE8;Q969S3;Q96RN5;Q9H8T0;Q9H9E3;Q9H9H5;Q92681;O95810;Q96AA8;Q9UM00;O95373;Q15437;Q9Y3A3;Q9UBF2;Q9HD26;Q6VY07;P36956;P49257;Q8N6T3;Q9C005;Q9Y678;Q96Q05;Q9Y2L5;Q7RTS9;P02511;Q6ICB4;Q96G01;Q15691;P0DI81;Q9UKJ5;Q8IYM9;Q8N1B4;O60921;Q8TD16;Q8IZL2;O95159;Q6ZRS2;Q99550;P53041;Q5JTD0;Q6RW13;Q13033;O43290;O75558;Q96EK6;Q9H4A6;O95486;Q9BSU3;P29474;Q96PC3;Q9C035;Q7Z6B0;O95996;P0DI82;O60260;P53618;P60520;Q9H2G9;Q9Y6B7;Q9Y615;Q12959;Q99996;P53677;Q5VU43;Q8WUY3;Q6ULP2;Q9HBQ8;O15127;Q9NR09;P04156;P07902;P82094;Q9Y6D6;Q9H8Y8;Q7Z460;Q9Y2M5;O43823;Q96KG9;O00291;P35908;Q96P71;Q92572;O75865;O15162;Q9UM54;P61966;Q13618;P59780;Q9BWX1;Q8WWW9;Q9NVV4;Q9P1T7;Q15047;Q9Y6Q5;O95271;Q9NX95;O00257;O94855;Q99732;P35606;Q9NZ52;Q8IX03;Q9U1L1;Q8NF91;Q96CA5;Q8IUD2;P62166;Q14511;O14662;Q99700;Q9NZI5;Q53GL7;O00161;Q9UID3;Q08379;Q13887;P53992;Q05084;Q9BSW2;Q9ULD2;O00189;O15144;Q86SZ2;Q8IY31;Q9BVW5;O95359;Q16143;O75081;O75674;Q14CS0;Q03938;Q8TBZ0;Q8IUR0}

746 Pathogen[ P14079] interacts with 380 human partners: {Q5SRI9;Q9UQL6;Q16655;O94923;Q5JTD0;Q9NY59;Q6VY07;Q15691;O95373;P0CG08;Q9UQR1;Q13492;Q9Y296;O95070;O95159;Q14CS0;Q96G79;O60260;O95166;Q96M27;Q14789;Q6ZVE7;Q14746;Q8WWW9;Q92562;Q9UL33;Q969M3;P49257;P61923;A6NDN3;O15027;O15162;Q6XZF7;P31948;Q86SZ2;Q9Y6Q5;Q15036;P61966;O00291;Q6ULP2;Q05084;Q9BXS5;Q86VE9;Q96P71;P63172;Q9NWB7;Q15596;Q15047;P35908;O43505;Q9C005;Q99996;Q9UJY4;O75072;Q8IY31;Q92681;P83436;P53041;Q9UID3;Q969H0;Q5VSG8;Q7Z460;A8MS94;Q5VSY0;Q24JP5;F8WBI6;Q9C035;Q56P03;P11171;Q7L4P6;Q8NFM7;Q9BVN2;Q7Z2W4;O95487;O95359;O60664;A6NP81;Q9NXE4;O95271;P56750;Q9NX95;Q96RQ1;Q9UKJ5;Q86VS8;Q99700;O15258;Q9UJY5;P59103;Q9NY61;P13498;Q92542;A6NC78;P02511;Q9NZ42;P04156;P35606;Q63HQ0;Q13033;Q9UPM8;Q13618;P21399;Q4G0N0;O43823;Q14677;Q10567;Q9Y6D5;Q9BXS5;Q6RW13;Q9NVX0;Q14204;Q92834;P56377;O75865;Q9Y2T2;Q9Y678;Q9HC24;Q5VZ66;Q9Y6B7;Q0D2H9;Q9H8T0;Q9Y250;Q9BXS4;Q8N8X6;P59780;O94855;O00189;Q9HCH5;Q9Y266;Q16143;Q9UI14;P52594;O75674;Q08378;P08729;Q6ZRS2;Q9U1L1;Q8IZL2;A8MVW5;P53992;Q13439;Q9BUL8;Q9H2K2;Q9Y615;O95954;Q9UKX2;Q9UM54;Q8IUD2;A6NN73;Q9H9H5;Q9Y371;Q7Z3C6;O15155;A8MQT2;Q9NYA3;Q96JE7;Q8IUR0;O43290;P33947;Q92572;Q03938;P06280;Q9NZ52;O00461;Q9NR09;Q15363;O75843;Q9BSU3;Q9BZE4;O75558;Q9UJH9;Q15012;O75396;Q9Y2V7;Q12772;Q9H2G9;Q9UL01;P80303;Q9HD26;O75503;P82094;Q3V5L5;H3BSY2;Q9H8Y8;P27544;Q08AE8;Q9Y5U9;Q9NQX7;Q8N357;P36405;Q9Y3A3;Q93045;P50542



;Q8IZH2;Q9Y287;Q8NHG7;P60520;O00257;Q5T215;Q8NBJ4;Q8WTW3;Q8IX03;Q9NZC7;Q99732;A6NCC3;Q8TAC9;Q8IUH2;Q9UK28;Q8IVS8;Q969X5;Q9BZQ4;Q6XQN6;P49755;Q9BQA1;Q9P299;Q8IV36;Q08379;Q96RN5;Q5JSH3;Q9Y6D6;Q7Z392;P17987;O95996;I6L899;Q9NZ72;A6NDK9;Q8TCI5;O95866;Q6IAA8;Q96AA8;Q9BRS8;Q8WUY3;Q8N4B1;Q9UBF2;P62166;Q9BV47;Q9UP83;O00559;Q9NVV4;Q9H1H9;Q9BTV4;O60551;Q9Y2M5;O95292;Q5VIR6;O00221;O14653;Q9H0R8;A4D1B5;Q9NZI5;Q96Q05;Q53HI1;P10124;Q8IWIJ2;Q49MG5;Q8TF30;Q7Z5B4;P53677;Q9BQ3;Q95295;D6RF30;Q9H5Y0;O14662;Q5HYK7;Q13596;Q7RTS9;Q13137;B7ZAQ6;A6NMD2;Q8N1B4;Q9H6L5;Q8N2H4;Q96G01;P48444;P0CJ92;Q96JE9;Q8IWI1;Q8TBZ0;Q9ULD2;Q96S66;Q00587;Q15554;Q9Y5R8;Q96MW5;O75081;Q6PJW8;Q96A65;Q9H4A5;Q13367;Q6ICB4;Q9Y3M2;Q93050;Q9NUK0;P62993;O95810;O43747;Q9UM00;O43752;P00915;O15260;O14579;Q92896;Q9P1T7;P78545;Q53GL7;Q9H9E3;A8MW95;P0CG33;Q9Y3E0;Q99598;Q9H0V9;O43493;P07902;Q96EK6;Q9HC07;Q6UX65;Q9NV92;P0DI82;P48553;Q96JB2;Q12904;O14617;O14503;P0DI81;Q8NF91;O95486;Q8TBQ9;Q86XR8;Q2TAP0;Q9HBF4;Q7Z5G4;O95235;Q96PC3;Q96FX8;Q9P2W9;Q14457;Q9252G5;Q9BUX1;O75122;Q9UN36;Q6UWH4;Q9H4A6;Q9NRX6;Q92622;P36956;O43617;Q9HBQ8;Q96SN8;Q5T7V8;Q969S3;Q8TD16;Q96CV9;Q9BV57;O60921;Q12893;O15144;Q96CN9;Q6UWI2;Q9UBM8;Q9NZU7;Q96S06;Q9BWX1;Q6AZY7;Q99550;P07305;Q15643;Q9Y587;O60763;Q08AF8;Q5VU43;Q8NCE8;Q8WXG1;Q15545;Q7Z6B0;Q96KG9;Q9Y2L5;Q9BVW5;Q9GZM5;Q9BSR8;Q96FM1}

747 Pathogen[ P03383] interacts with 182 human partners: {Q9UQR1;Q14457;Q92681;Q9NVV4;Q9UJY4;P08729;Q9NY61;Q8IWIJ2;Q6RW13;P56377;O15126;Q86XR8;Q14746;Q15047;Q9BQA1;Q7Z460;Q56P03;Q12904;Q9BVW5;Q7Z3C6;P29474;Q9H9E3;O14579;Q92572;Q9NWB7;Q7Z6B0;Q9UP83;Q15691;Q8WUY3;Q8IY31;P53618;O43290;Q9NZD8;Q9BUX1;P83436;Q9Y678;Q15596;P04156;Q5HYK7;Q8N1B4;Q9UQL6;Q9NVX0;O95487;O15162;Q13439;O95295;Q9UL33;Q99HD26;Q15554;Q8TAC9;P07902;P63172;Q96SN8;Q99700;P31948;Q10567;A8MVW5;Q8IZL2;Q5JTD0;Q6VY07;O00257;Q8IV36;P02511;Q9NX95;Q96JB2;Q9H2G9;Q9BZE4;Q96P71;O95486;Q9HCH5;O14503;Q9Y296;Q9Y6D6;Q9UN36;O43493;O00189;P53677;Q9BRS8;Q9UJL1;Q15436;Q13618;Q8N2H4;O60921;Q96CN9;Q9BV57;Q9H1H9;Q9BSU3;Q8WTW3;Q8NHG7;Q5VU43;Q8TCI5;Q13137;Q96RN5;Q15643;Q05084;Q8IUR0;O00291;O75081;Q9C035;O75558;Q9H8T0;Q9H9H5;O60260;O75843;Q8NCE8;Q9Y2T2;Q9BSW2;O43747;Q15437;O94855;Q9UJY5;O43617;O75865;Q9C005;Q14511;Q7RTS9;Q9UKX2;P0DI82;Q53GL7;Q99732;P0DI81;Q86VS8;Q9Y3M2;Q9UBF2;P53041;O95810;Q9Y266;Q9H4A6;O15027;Q969H0;P10124;P35908;Q8IX03;Q9UKJ5;O15127;Q5T7V8;Q9BUL8;Q96JE7;Q13367;Q9H5Y0;Q14677;Q6ULP2;Q9NR09;P53992;P78545;P82094;O43752;Q9Y2M5;Q99996;O95373;Q9UM00;Q96CV9;Q9P1T7;Q13033;Q00587;Q49MG5;Q9NZI5;O00161;Q9BXS5;O95271;Q15545;Q9H8Y8;Q8IUD2;Q9Y3A3;O60664;Q14CS0;Q9HBQ8;Q63HQ0;P52594;Q9Y615;Q86SZ2;Q08379;Q5VIR6;Q9BVN2;Q9H4A5;Q8WWW9;Q969S3;P27797;Q7Z2W4;Q9NZ52;Q9Y250;Q03938}

748 Pathogen[ P03410] interacts with 390 human partners: {Q9BVN2;Q99700;Q9HC07;Q8IVS8;Q7Z460;Q9HC24;P0DI82;Q92562;Q9Y6Q5;Q7L4P6;Q14204;O95292;Q9HCH5;Q9UPM8;Q86VE9;Q9BSU3;Q4G0N0;O00203;Q5JSH3;P82094;Q96PC3;P17987;P36956;Q86SZ2;P10768;Q13137;Q9H2G9;Q7RTS9;Q12893;P51161;O75865;Q5VSY0;Q5HYK7;P52594;O95359;P80303;Q9UKX2;Q9H0V9;Q9Y2L5;Q5VSG8;Q96M27;Q9BXS5;Q13190;Q8IZE3;Q15047;Q3V5L5;Q9BQ3;Q9HBQ8;Q9BRV3;Q96JB2;Q8TAC9;Q9UP83;Q7Z5B4;Q96FM1;P49257;Q8TBQ9;Q15554;Q9NYA3;A4D1B5;Q13596;Q99996;Q94855;Q9Y615;Q9NZ52;O60551;Q8N4B1;Q969X5;Q7Z392;Q13445;B7ZAQ6;P53992;Q9Y2V7;Q9H1H9;Q08AE8;Q53GL7;Q8IX03;Q9P299;O75674;O43747;O75843;Q9Y3M2;Q12959;Q9BUL8;P48553;Q16655;Q8IV36;P60520;Q9BWX1;Q9UL33;P48444;P10124;P78545;Q9NZC7;Q7Z5G4;Q96SN8;Q8N1B4;Q9BVW5;Q08AF8;P07902;Q10567;Q969S3;O95954;Q8IWI1;P35606;Q7Z6B0;Q9BUX1;Q5T215;P36405;A8MS94;Q9P2K5;Q9NY61;Q14457;Q92572;P63172;P33947;Q99732;Q08378;Q9P2W9;Q9NZI5;Q16143;A6NCC3;Q9H8T0;O14662;Q93050;O14579;H3BSY2;Q9BZQ4;Q00587;Q9BQA1;Q96EK6;Q9H6L5;P27544;A6NCC3;O00291;A8MQT2;Q24JP5;P55157;O60260;O60664;Q96JE9;Q6XQN6;Q9Y3E0;Q8N2H4;Q8TD16;Q9H4A6;Q9NV92;Q9NVV4;Q8TF30;Q9Y5R8;A6NP81;O00461;Q05084;O14617;Q9UJY5;Q9Y587;Q9Y6B7;O15258;Q8WXG1;Q9NXE4;Q12904;F8WB16;Q9UMZ2;O00559;Q9NZ42;Q9C005;O95249;O75503;Q9UQR1;Q9UQL6;O95295;Q5SRI9;Q9HD26;Q92896;O95166;O15162;P11171;Q53HI1;Q9NR09;Q9UM54;Q9UHT9;Q8IZH2;Q96MW5;Q8IZL2;O95866;Q9C035;P0DI81;Q9BTV4;Q13492;Q6ZRS2;Q13618;Q15436;Q9BVK6;P29474;Q9H9H5;O60763;Q14677;Q9NRD5;Q9H8Y8;Q8IUD2;Q96AA8;Q9P1T7;Q6UWI2;Q5VZ66;O75396;Q14511;P21399;Q9UN36;Q96FX8;Q96KG9;Q15691;Q9H0R8;Q969M3;P35908;O95996;Q15437;Q9UJL1;I6L899;Q8IUR0;P0CG08;Q969H0;Q96RQ1;Q7Z6J0;Q8N357;Q8IY31;Q9UK28;Q9NWB7;Q12772;O15155;Q7Z2W4;Q9ULD2;Q9Y2T2;Q9NP61;O95271;Q96A65;Q9Y678;Q9BSR8;P02511;Q5VU43;Q9NQX7;Q96CV9;Q9Y3A3;Q9NVX0;Q99550;Q13033;Q14CS0;Q6PJW8;Q14789;O95486;Q6UX65;O15127;P0CG33;Q15363;Q5T7V8;Q15036;Q96G01;A7E2F4;A6NDK9;Q9Y371;Q9UKJ5;Q6XZF7;Q92834;Q9Y6D6;P04156;P53618;A8MVW5;P61923;Q9Y6D5;Q8WWW9;P53041;Q96JE7;Q8WTW3;A6NND3;O60921;P0CJ92;Q9NZU7;O95810;Q5JTD0;Q96S06;Q6ICB4;Q99598;Q6RW13;P31948;P53677;O75558;Q0D2H9;Q15596;Q6IAA8;Q96S66;Q15643;P50542;Q14746;Q9HBF4;Q8TCI5;O75081;Q96Q05;Q8NBJ4;Q9Y5U9;Q56P03;Q63HQ0;Q75064;Q6ULP2;Q9NZ72;Q92542;Q6UWH4;Q9Y296;O43752;O95159;Q8N8X6;O15027;Q9Y250;Q9H5Y0;Q96G79;Q9Y266;O14653;O15144;A6NMD2;Q9H2K2;P59780;Q92805;P83436;Q9BXS4;O00257;Q5VIR6;Q9UL01;P08729;P56750;Q96P71;Q6ZVE7;O43290;Q13439;O15260;Q13367;O43493;O43617;D6RF30;P62166;Q7Z3C6;Q9Y2G5;Q9UM00;P61966;O43823;Q6VY07;O15126;P62993;A8MW95;Q9BV57;O75122;Q8NCE8;Q9BZQ4;Q8NFM7;Q9UI14;O00161;A6NN73;Q9BV47;Q92681;Q6AZY7;Q9H9E3;Q9BRK5;Q9BRS8;P56377;Q96RN5;Q49MG5;Q9UID3;Q8NHY0;Q15012;P59103;Q93045;Q9BZE4;Q9H4A5;Q8IUD2;O00221;Q9Y2M5;Q9UJY4;Q15545;Q8TBZ0;O95070;Q9NX95;O43505;O95373;O95487;Q8NHG7;Q2TAP0;Q5MNZ9;Q8WUY3;Q9UBF2;Q08379;Q03938;Q8NF91;P27797}

749 Pathogen[ P14075] interacts with 209 human partners: {Q14457;P29474;O43617;P08729;Q14511;Q15643;Q969S3;Q9UJY4;Q14746;Q9H2G9;Q96JB2;Q08AF8;Q9Y266;Q96JE7;Q92681;Q8NBJ4;Q96FX8;Q5SRI9;Q9BSW2;Q9H1H9;Q8IWI1;Q9BUL8;Q9UQR1;Q8N1B4;Q8N2H4;Q9H9E3;O75558;Q9BQA1;Q13618;Q5VU43;Q9UKX2;O95295;Q15554;P78545;Q49MG5;O43752;O15127;O15162;Q56P03;Q9BV57;Q9BVN2;Q8IVS8;P82094;Q96JE9;Q9Y2T2;Q9NVV4;A8MVW5;Q9UBF2;Q7Z460;Q8IV36;Q9NY61;Q86SZ2;Q9BSU3;Q8IY31;Q15047;Q9P1T7;Q9NZ52;Q8WWW9;P04156;Q9HCH5;Q5HYK7;Q9Y250;Q9HD26;Q96SN8;Q8WUY3;Q8IUD2;O95159;O15027;O15126;Q9NZD8;Q9Y6D6;P63172;P53992;Q5JTD0;O75081;O14503;Q9BVW5;Q7Z392;Q00587;O00461;Q13137;Q9H4A5;O00257;O00291;Q96AA8;Q16655;O75865;O43493;O00189;O95487;P07902;O95810;P35908;Q99996;Q9H8T0;Q9H9H

5;Q08379;O43505;Q9UP83;Q8TBZ0;Q15437;Q8NHG7;Q7Z6B0;Q86XR8;O95373;Q9UHT9;Q12904;Q9C005;Q7RTS9;Q2TAP0;P53618;Q99732;Q8IUR0;Q15691;Q63HQ0;P0DI81;Q5T7V8;P27797;Q14CS0;Q14677;Q8IHWJ2;Q9UN36;Q9Y2G5;Q9H8Y8;Q9C035;Q8TCI5;O43747;Q9BRS8;P53041;Q9HBQ8;Q15545;Q15436;Q9BUX1;Q9Y3A3;Q92572;P02511;Q9NWB7;Q9UILL1;Q9UK28;Q5VIR6;Q7Z2W4;P52594;O00161;O60921;Q14789;Q9BZE4;Q13439;Q05084;Q9Y678;Q9NZI5;Q9NV92;Q9NVX0;Q6ULP2;Q9NR09;O75843;Q8TAC9;Q96RN5;Q96CV9;P56377;Q9UQL6;Q86VS8;Q99700;O94855;Q9BXS5;P10124;Q53HI1;Q9UL33;Q9Y3M2;Q6RW13;Q9Y2M5;P59103;Q9Y287;O95271;Q8IZL2;O43823;Q9NX95;Q6XQN6;O43290;Q9Y296;Q96EK6;O60260;Q969H0;P31948;Q9UKJ5;Q13033;O95486;Q9H4A6;Q6UWI2;Q10567;Q96CN9;P83436;Q8NCE8;P11171;Q6VY07;Q9UJY5;Q13367;Q7Z3C6;P0DI82;O60664;Q9UM00;Q15596;Q53GL7;Q96P71;Q8WTW3;Q7L4P6;Q8IX03;Q9H5Y0;O14579;Q03938}

750 Pathogen[ P0C206] interacts with 354 human

partners: {Q96P71;Q13439;O95271;Q8TCI5;Q8TF30;Q7Z3C6;O14662;Q13887;Q9Y3A3;Q14789;Q5SRI9;Q9BVK6;Q86XR8;O14579;Q16655;Q63HQ0;Q9HBQ8;Q9C005;O15127;P0DI82;A6NCC3;Q9Y678;Q15437;Q9Y6B7;O95359;Q9UM54;Q9UM00;Q9H4A6;P83436;Q15545;Q9Y296;Q96SN8;O00221;Q8N6T3;P27797;O75865;Q14CS0;O75396;Q9Y2V7;Q9NZI5;Q9BV47;Q7RTS9;Q9BUX1;Q9Y6Q5;Q8IZH2;O00291;Q9BQA1;Q92572;Q7Z6J0;Q9NZ42;Q8WXX9;P04156;P53618;Q9P299;O43747;Q6XQN6;Q9Y287;Q9H9E3;O94855;P62166;Q92681;A8MS94;Q9UHT9;O95810;Q10567;O14653;Q92562;P51161;Q8IY31;O60664;Q96FX8;Q7Z5B4;Q56P03;Q9NV92;Q9Y6D6;O15258;Q96CV9;Q15554;Q8NHG7;O43752;Q99598;Q96JE9;Q0D2H9;Q9Y2L5;Q9H8T0;O43493;Q15691;P0CJ92;O75081;Q9H6L5;Q8IHW1;P61966;Q9UILL1;Q8TBZ0;Q13137;P80303;Q9BRS8;O95070;Q9H8Y8;P08729;P53041;Q53GL7;Q96AA8;Q14457;P49755;Q6ICB4;Q969H0;P48553;Q9UJY4;P00915;Q6ZRS2;Q96JB2;Q8IUD2;Q99550;Q9Y2T2;Q14746;Q9UKJ5;P36956;Q13596;A6NN73;O75558;Q99996;Q92542;P17987;P10768;Q9H1H9;Q9NZU7;P50542;Q96KG9;Q5JTD0;O95996;Q96A65;Q15036;Q6P3W7;Q9UI14;P62993;Q8NBJ4;Q9H5Y0;Q86VS8;Q9NYA3;Q9NP61;Q9Y587;O43290;Q9NVX0;Q9UL01;Q9H4A5;Q9NX95;O00161;Q96S66;P59780;Q8N2H4;O75122;P53677;O95292;A8MW95;O95954;A6NMD2;D6RF30;Q92622;A8MVW5;Q9UK28;Q969S3;Q14204;Q8IV36;Q8NF91;Q6PJW8;Q9UPM8;Q9UP83;Q6ULP2;Q96RN5;Q9BXS5;O15155;Q5HYK7;Q6VY07;Q6RW13;Q93045;Q9NR09;Q13618;Q96Q05;Q9BVM5;O95486;Q969M3;Q8WTW3;Q99700;Q5VIR6;Q6ZVE7;Q9NZ52;Q8IZL2;Q9NR48;Q53HI1;Q9Y6D5;O95373;Q7L4P6;P35606;Q86SZ2;Q9P2K5;Q8N357;Q9NWB7;P33947;Q9UJY5;Q96JE7;O00461;P49257;O95487;A4D1B5;O60763;O60260;Q9NZ72;Q9UQR1;Q9BZQ4;P48444;Q9ULD2;P78545;Q9BUL8;Q16143;Q08378;Q6UWH4;O60921;Q5VU43;Q9UKX2;Q9BV57;Q12893;Q49MG5;P07902;Q9NVV4;Q7Z392;Q9C035;P60520;Q9NQX7;Q08AF8;Q8IUR0;Q96EK6;O95295;O43617;Q9BZE4;Q14677;O15144;O60551;P36405;Q9H2G9;P29474;Q9H0R8;P0CG08;O15162;Q9UID3;Q5T215;O43823;O15260;Q9UBF2;Q5VSY0;Q9HC24;Q8N4B1;Q9NZC7;Q969X5;Q15596;Q8IYM9;Q9BSU3;Q96CN9;Q08379;O14617;Q96CA5;A6NDN3;O75843;Q96RQ1;Q6XZF7;Q9Y2M5;Q9UL33;Q6UWI2;Q15047;Q9UN36;Q5JSH3;P59103;P53992;Q15363;Q13033;Q9Y5R8;Q9Y5U9;O00257;P02511;Q9BQQ3;Q8N1B4;Q9HCH5;Q7Z2W4;Q7Z460;Q7Z6B0;Q8TAC9;Q9NUK0;P31948;Q8N6H7;P63172;O15126;Q96PC3;Q8WXG1;Q9BSW2;Q15643;Q8WUY3;O15027;Q9NY61;Q8NCE8;O95159;Q8IVS8;Q9NR15;O75674;O00189;Q8TD16;P0CG33;A6NC78;Q12959;Q99732;Q9Y615;Q9H2K2;Q9Y266;Q9HD26;Q92834;Q5VZ66;Q9Y250;Q9HBF4;P10124;Q9P1T7;Q12772;Q9BTV4;Q14511;O95166;Q9Y2G5;Q8IHWJ2;Q13367;Q9P2W9;Q05084;Q96S06;Q08AE8;P21399;Q99640;P82094;Q8IX03;Q9BWX1;Q12904;P56377;P35908;Q93050;P11171;Q2TAP0;O43505;A6NDK9;P0DI81;P61923;B7ZAQ6;Q96G01;Q5T7V8;Q9BVN2;Q9H9H5;Q00587;Q03938;Q9UQL6;Q15436}

751 Pathogen[ P03363] interacts with 225 human

partners: {O60763;Q6XQN6;Q9H5Y0;Q08AE8;Q9BUL8;Q14789;Q12959;Q86VS8;Q9UID3;P29474;O75081;O43493;Q9NVV4;Q8NF91;Q9Y2T2;O60664;Q14CS0;Q96CV9;Q99598;O95996;Q7RTS9;Q13367;Q6ICB4;O00221;Q9UP83;Q9NW13;O43747;Q9UJY4;Q15554;Q99996;P48444;Q63HQ0;P0DI81;Q5T7V8;Q8N1B4;Q8TBZ0;Q14457;Q8NCE8;Q9UKX2;Q9Y266;Q6ZRS2;Q13439;Q96A65;Q9Y678;P53677;Q13618;Q15691;Q56P03;Q7Z2W4;Q9NZ52;Q8TCI5;Q99550;Q9BUX1;P53041;Q5JTD0;Q9UN36;Q15545;Q9UL33;Q14204;Q9BZE4;P10768;Q9H9E3;O75558;Q13033;Q15436;Q9Y3M2;Q9Y2L5;P83436;Q9UQL6;Q00587;Q5VU43;Q9Y6B7;O14579;P04156;Q8IVS8;Q15596;O95486;Q49MG5;P51161;Q9H4A6;P53618;P60520;Q8N4B1;Q8WUY3;Q9H2K2;Q9BXS5;Q9P299;Q93045;Q9C005;P61923;Q6VY07;P0DI82;P35908;Q14746;Q9NWB7;Q9P2W9;Q9BQA1;Q92572;Q9H0R8;Q9P1T7;Q96P71;O15144;Q9BSU3;A8MVW5;Q9NY61;Q9HBQ8;Q8IV36;Q92622;Q6ULP2;Q9NR09;P63172;Q8IY31;Q9Y250;Q9Y2M5;Q6XZF7;P78545;Q14511;Q14677;Q9BVW5;P27797;Q7Z3C6;Q9NVX0;Q9BSW2;Q99732;Q96RN5;P11171;Q96KG9;O75674;Q05084;P17987;Q9NZU7;Q7Z460;O95271;Q9NZI5;P31948;O43290;Q969H0;Q9C035;Q9Y615;Q969S3;Q08378;Q8WTW3;Q9H8T0;Q9BV57;Q9P2K5;P08729;Q9H8Y8;O00189;Q9BRS8;O95295;Q9NR48;Q5VIR6;Q08379;Q9H2G9;Q92681;Q9BVN2;Q8IHWJ2;O15126;P35606;O60921;O14662;Q7Z6J0;Q9UQR1;Q9UILL1;Q96CA5;Q9UKJ5;Q9UBF2;Q92834;P53992;O75843;O95359;O95487;O95373;Q13596;Q8IZE3;Q9Y296;Q86XR8;O15127;O43617;Q9Y3A3;Q9NZD8;Q99700;Q9BV47;Q9H1H9;P52594;Q9HCH5;Q5HYK7;O00161;P82094;Q7Z6B0;Q8IX03;Q9Y6D6;P48553;Q49MI3;O95810;Q9UJY5;O43752;Q9ULD2;Q13137;Q8TD16;Q8IUD2;O00257;Q15047;Q15643;O95166;Q969S3;Q8IZL2;Q9HD26;Q8WXX9;Q16143;O94855;Q8IZH2;O00291;Q10567;O14503;Q96CN9;Q96JE9;Q9NUK0;Q96AA8;Q96SN8;Q9H9H5;Q03938;Q9NX95;Q9UPM8;Q53GL7;Q96JB2}

752 [Cluster 69]GO:0008023+C cellular\_component [name] transcription elongation factor complex [def] "Any protein complex that interacts with RNA polymerase II to increase (positive transcription elongation factor) or reduce (negative transcription elongation factor) the rate of transcription elongation." [GOC

753 Pathogen[ Q2Q067] interacts with 13 human  
partners: {Q9HB65;Q9H9T3;Q15560;Q9UHK0;O95163;P55199;P50750;Q6IA86;Q03468;O00472;Q9UNY4;Q14241;Q96EB1}

754 Pathogen[ P0C214] interacts with 13 human  
partners: {P50750;Q9UHK0;Q15560;Q6IA86;Q9UNY4;P55199;Q9H9T3;O00472;Q9HB65;Q96EB1;O95163;Q03468;Q14241}

755 Pathogen[ P03346] interacts with 13 human  
partners: {Q9HB65;O95163;Q15560;O00472;Q03468;Q9H9T3;Q9UHK0;P50750;Q9UNY4;P55199;Q6IA86;Q96EB1;Q14241}

756 Pathogen[ Q85601] interacts with 13 human  
partners: {P50750;Q9H9T3;Q14241;Q15560;O00472;Q03468;Q96EB1;Q9UHK0;P55199;Q6IA86;Q9HB65}

5;O95163;Q9UNY4}  
757 Pathogen[ P14079] interacts with 13 human  
partners:{Q15560;P55199;Q14241;Q6IA86;Q9UNY4;O95163;Q96EB1;Q9UHK0;Q9H9T3;O00472;Q0346  
8;Q9HB65;P50750}  
758 Pathogen[ P03383] interacts with 13 human  
partners:{P55199;O95163;O00472;Q15560;Q9HB65;Q96EB1;Q9UHK0;Q03468;P50750;Q14241;Q6IA8  
6;Q9UNY4;Q9H9T3}  
759 Pathogen[ P03410] interacts with 13 human  
partners:{O00472;Q9UNY4;Q9UHK0;Q9H9T3;Q03468;Q96EB1;Q15560;P50750;P55199;O95163;Q6IA8  
6;Q14241;Q9HB65}  
760 Pathogen[ P14075] interacts with 13 human  
partners:{Q96EB1;Q9UNY4;Q14241;Q6IA86;P50750;Q15560;Q03468;Q9UHK0;O00472;O95163;P5519  
9;Q9H9T3;Q9HB65}  
761 Pathogen[ P0C206] interacts with 13 human  
partners:{Q9HB65;P50750;Q9UNY4;Q9H9T3;Q9UHK0;Q6IA86;Q03468;Q14241;O95163;Q15560;O0047  
2;Q96EB1;P55199}  
762 Pathogen[ P03363] interacts with 13 human  
partners:{P55199;Q6IA86;Q9UHK0;Q9HB65;Q9UNY4;Q14241;Q96EB1;O95163;Q03468;P50750;O0047  
2;Q15560;Q9H9T3}  
763 [Cluster 70]GO:0016590+C cellular\_component [name] ACF complex [def] "A  
chromatin-remodeling complex that catalyzes the ATP-dependent assembly of periodic  
nucleosome arrays. In Drosophila, the complex comprises ACF1 and ISWI." [GOC  
764 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NRL2}  
765 Pathogen[ P0C214] interacts with 1 human partners:{Q9NRL2}  
766 Pathogen[ P03346] interacts with 1 human partners:{Q9NRL2}  
767 Pathogen[ Q85601] interacts with 1 human partners:{Q9NRL2}  
768 Pathogen[ P14079] interacts with 1 human partners:{Q9NRL2}  
769 Pathogen[ P03383] interacts with 1 human partners:{Q9NRL2}  
770 Pathogen[ P03410] interacts with 1 human partners:{Q9NRL2}  
771 Pathogen[ P14075] interacts with 1 human partners:{Q9NRL2}  
772 Pathogen[ P0C206] interacts with 1 human partners:{Q9NRL2}  
773 Pathogen[ P03363] interacts with 1 human partners:{Q9NRL2}  
774 [Cluster 71]GO:0042272+C cellular\_component [name] nuclear RNA export factor complex  
[def] "A protein complex that contains two proteins (know in several organisms, including  
Drosophila, as NXF1 and NXF2) and is required for the export of the majority of mRNAs  
from the nucleus to the cytoplasm\_ localized in the nucleoplasm and at both the  
nucleoplasmic and cytoplasmic faces of the nuclear pore complex\_ shuttles between the  
nucleus and the cytoplasm." [PMID  
775 Pathogen[ Q2Q067] interacts with 2 human partners:{P54253;Q9H4D5}  
776 Pathogen[ P0C214] interacts with 2 human partners:{P54253;Q9H4D5}  
777 Pathogen[ P03346] interacts with 2 human partners:{Q9H4D5;P54253}  
778 Pathogen[ Q85601] interacts with 2 human partners:{Q9H4D5;P54253}  
779 Pathogen[ P14079] interacts with 2 human partners:{Q9H4D5;P54253}  
780 Pathogen[ P03383] interacts with 2 human partners:{Q9H4D5;P54253}  
781 Pathogen[ P03410] interacts with 2 human partners:{Q9H4D5;P54253}  
782 Pathogen[ P14075] interacts with 2 human partners:{P54253;Q9H4D5}  
783 Pathogen[ P0C206] interacts with 2 human partners:{Q9H4D5;P54253}  
784 Pathogen[ P03363] interacts with 2 human partners:{Q9H4D5;P54253}  
785 [Cluster 72]GO:0016938+C cellular\_component [name] kinesin I complex [def] "A  
complex of two kinesin heavy chains and two kinesin light chains." [http  
786 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9H0B6}  
787 Pathogen[ P0C214] interacts with 1 human partners:{Q9H0B6}  
788 Pathogen[ P03346] interacts with 1 human partners:{Q9H0B6}  
789 Pathogen[ Q85601] interacts with 1 human partners:{Q9H0B6}  
790 Pathogen[ P14079] interacts with 1 human partners:{Q9H0B6}  
791 Pathogen[ P03383] interacts with 1 human partners:{Q9H0B6}  
792 Pathogen[ P03410] interacts with 1 human partners:{Q9H0B6}  
793 Pathogen[ P14075] interacts with 1 human partners:{Q9H0B6}  
794 Pathogen[ P0C206] interacts with 1 human partners:{Q9H0B6}  
795 Pathogen[ P03363] interacts with 1 human partners:{Q9H0B6}  
796 [Cluster 73]GO:0017101+C cellular\_component [name] aminoacyl-tRNA synthetase  
multienzyme complex [def] "A multienzyme complex found in all multicellular eukaryotes  
composed of eight proteins with aminoacyl-tRNA synthetase activities (abbreviated as  
797 Pathogen[ Q2Q067] interacts with 3 human partners:{Q15046;Q12904;P54136}  
798 Pathogen[ P0C214] interacts with 2 human partners:{Q12904;Q15046}  
799 Pathogen[ P03346] interacts with 2 human partners:{Q12904;P54136}  
800 Pathogen[ Q85601] interacts with 2 human partners:{P54136;Q15046}  
801 Pathogen[ P14079] interacts with 3 human partners:{P54136;Q15046;Q12904}  
802 Pathogen[ P03383] interacts with 3 human partners:{Q12904;Q15046;P54136}  
803 Pathogen[ P03410] interacts with 3 human partners:{P54136;Q12904;Q15046}  
804 Pathogen[ P14075] interacts with 3 human partners:{P54136;Q12904;Q15046}  
805 Pathogen[ P0C206] interacts with 3 human partners:{P54136;Q12904;Q15046}  
806 Pathogen[ P03363] interacts with 1 human partners:{P54136}  
807 [Cluster 74]GO:0031519+C cellular\_component [name] PcG protein complex [def] "A  
chromatin-associated multiprotein complex containing Polycomb Group proteins. In  
Drosophila, Polycomb group proteins are involved in the long-term maintenance of gene

repression, and PcG protein complexes associate with Polycomb group response elements (PREs) in target genes to regulate higher-order chromatin structure." [PMID

808 Pathogen[ Q2Q067] interacts with 21 human partners:{Q9BYE7;P25490;Q8IXK0;Q9HC52;O00257;Q86SE9;O95503;O95931;Q9BSM1;Q8NHM5;P35227;Q9UQR0;Q6W2J9;P67870;P35226;Q99496;Q3KNV8;Q8N488;Q14781;P63208;Q06587}

809 Pathogen[ P0C214] interacts with 20 human partners:{P35226;P35227;Q8IXK0;Q86SE9;Q9BSM1;P63208;Q6W2J9;O95931;O95503;Q3KNV8;Q8N488;Q06587;Q9BYE7;O00257;Q9UQR0;Q99496;Q14781;P67870;Q9HC52;Q8NHM5}

810 Pathogen[ P03346] interacts with 22 human partners:{Q14781;Q3KNV8;P35226;P25490;Q9HC52;O95931;P35227;Q9BYE7;O00257;Q9BSM1;Q86SE9;P63208;Q99496;P78364;P67870;Q8IXK0;Q8NHM5;Q8N488;Q06587;O95503;Q6W2J9;Q9UQR0}

811 Pathogen[ Q85601] interacts with 22 human partners:{Q8IXK0;O95931;P25490;Q86SE9;O95503;P63208;P78364;Q9BSM1;Q8NHM5;Q9BYE7;Q3KNV8;Q99496;P35226;P67870;Q8N488;Q9UQR0;O00257;Q06587;Q9HC52;Q6W2J9;P35227;Q14781}

812 Pathogen[ P14079] interacts with 22 human partners:{O95503;Q9HC52;Q9UQR0;O95931;Q8NHM5;Q6W2J9;P78364;Q99496;O00257;Q14781;Q9BYE7;Q8IXK0;P35226;Q3KNV8;Q8N488;P35227;P67870;P63208;P25490;Q9BSM1;Q86SE9;Q06587}

813 Pathogen[ P03383] interacts with 18 human partners:{P35227;O95503;O00257;Q9HC52;Q06587;O95931;Q9BYE7;P63208;Q6W2J9;Q9UQR0;Q9BSM1;Q86SE9;Q8N488;Q99496;P67870;Q3KNV8;P35226;Q14781}

814 Pathogen[ P03410] interacts with 21 human partners:{Q9BSM1;Q8IXK0;Q99496;Q6W2J9;O95503;Q3KNV8;Q9BYE7;O95931;Q86SE9;P35227;P25490;P63208;Q8N488;Q06587;O00257;Q9UQR0;Q14781;P67870;P35226;P78364;Q9HC52}

815 Pathogen[ P14075] interacts with 18 human partners:{Q14781;Q3KNV8;Q86SE9;Q8N488;O95503;Q9UQR0;O95931;Q9BYE7;O00257;P63208;Q06587;Q6W2J9;P67870;Q9HC52;Q99496;P35226;Q9BSM1;P35227}

816 Pathogen[ P0C206] interacts with 22 human partners:{Q9HC52;P78364;P25490;Q6W2J9;Q9UQR0;P35226;Q14781;Q9BYE7;Q3KNV8;Q86SE9;P63208;Q8N488;Q06587;O95931;P67870;Q8NHM5;Q9BSM1;Q8IXK0;O00257;Q99496;O95503;P35227}

817 Pathogen[ P03363] interacts with 20 human partners:{P35227;Q14781;Q9HC52;Q3KNV8;Q86SE9;P25490;Q8N488;Q99496;Q8IXK0;Q9BSM1;P35226;O95931;Q9UQR0;P67870;Q06587;Q6W2J9;O95503;O00257;P63208;Q9BYE7}

818 [Cluster 75]GO:0060053+cellular\_component [name] neurofilament cytoskeleton [def] "Intermediate filament cytoskeletal structure that is made up of neurofilaments. Neurofilaments are specialized intermediate filaments found in neurons." [GOC

819 Pathogen[ Q2Q067] interacts with 1 human partners:{O15061}

820 Pathogen[ P0C214] interacts with 1 human partners:{O15061}

821 Pathogen[ P03346] interacts with 1 human partners:{O15061}

822 Pathogen[ Q85601] interacts with 2 human partners:{Q9GZM8;O15061}

823 Pathogen[ P14079] interacts with 2 human partners:{O15061;Q9GZM8}

824 Pathogen[ P03383] interacts with 1 human partners:{O15061}

825 Pathogen[ P03410] interacts with 2 human partners:{O15061;Q9GZM8}

826 Pathogen[ P14075] interacts with 1 human partners:{O15061}

827 Pathogen[ P0C206] interacts with 2 human partners:{O15061;Q9GZM8}

828 Pathogen[ P03363] interacts with 1 human partners:{O15061}

829 [Cluster 76]GO:0005944+cellular\_component [name] 1-phosphatidylinositol-4-phosphate 3-kinase, class IB complex [def] "A heterodimeric protein complex that possesses 1-phosphatidylinositol-4-phosphate 3-kinase activity\_ comprises a catalytic Class IB phosphoinositide 3-kinase (PI3K) subunit of 110-120 kDa and an associated regulatory subunit that is larger than, and unrelated to, the p85 proteins present in class IA complexes. Class I PI3Ks phosphorylate phosphatidylinositol [PI], phosphatidylinositol-4-phosphate [PI(4)P] and phosphatidylinositol-4,5-bisphosphate [PI(4,5)P2] and are divided into subclasses A and B according to the type of adaptor subunit with which they associate. Class IB PI3Ks are stimulated by G-proteins and do not interact with the SH2-domain containing adaptors that bind to Class IA PI3Ks." [PMID

830 Pathogen[ Q2Q067] interacts with 2 human partners:{Q8WYR1;Q5UE93}

831 Pathogen[ P0C214] interacts with 2 human partners:{Q8WYR1;Q5UE93}

832 Pathogen[ P03346] interacts with 2 human partners:{Q8WYR1;Q5UE93}

833 Pathogen[ Q85601] interacts with 2 human partners:{Q8WYR1;Q5UE93}

834 Pathogen[ P14079] interacts with 2 human partners:{Q8WYR1;Q5UE93}

835 Pathogen[ P03383] interacts with 2 human partners:{Q8WYR1;Q5UE93}

836 Pathogen[ P03410] interacts with 2 human partners:{Q5UE93;Q8WYR1}

837 Pathogen[ P14075] interacts with 2 human partners:{Q8WYR1;Q5UE93}

838 Pathogen[ P0C206] interacts with 2 human partners:{Q5UE93;Q8WYR1}

839 Pathogen[ P03363] interacts with 2 human partners:{Q8WYR1;Q5UE93}

840 [Cluster 77]GO:0031011+cellular\_component [name] Ino80 complex [def] "A multisubunit protein complex that contains the Ino80p ATPase\_ exhibits chromatin remodeling activity and 3' to 5' DNA helicase activity." [GOC

841 Pathogen[ Q2Q067] interacts with 12 human partners:{Q9Y5K5;P25490;P0C1Z6;O96019;Q9C086;Q96EZ8;Q9H981;Q8NBZ0;Q6P4R8;Q9ULG1;Q6PI98;Q9H9F9}

842 Pathogen[ P0C214] interacts with 11 human partners:{Q9H9F9;Q9C086;Q9ULG1;P0C1Z6;Q9Y5K5;Q6PI98;Q6P4R8;Q96EZ8;O96019;Q8NBZ0;Q9H981}

843 Pathogen[ P03346] interacts with 12 human partners:{Q96EZ8;Q9C086;Q9H9F9;Q9ULG1;P25490;Q6PI98;P0C1Z6;O96019;Q9H981;Q8NBZ0;Q6P4R8}

844 Pathogen[ Q85601] interacts with 12 human partners: {Q9C086;Q9H9F9;P25490;O96019;P0C1Z6;Q8NBZ0;Q6PI98;Q9H981;Q6P4R8;Q9Y5K5;Q9ULG1;Q96EZ8}

845 Pathogen[ P14079] interacts with 10 human partners: {Q9ULG1;Q8NBZ0;Q6PI98;Q9H981;Q9Y5K5;P0C1Z6;Q6P4R8;P25490;Q96EZ8;Q9H9F9}

846 Pathogen[ P03383] interacts with 10 human partners: {O96019;Q6P4R8;Q9H981;Q9C086;Q6PI98;Q9H9F9;Q8NBZ0;P0C1Z6;Q9Y5K5;Q96EZ8}

847 Pathogen[ P03410] interacts with 12 human partners: {Q9H981;Q6PI98;O96019;Q9ULG1;P0C1Z6;P25490;Q9H9F9;Q6P4R8;Q96EZ8;Q9Y5K5;Q9C086;Q8NBZ0}

848 Pathogen[ P14075] interacts with 10 human partners: {Q6P4R8;Q9C086;P0C1Z6;Q96EZ8;O96019;Q8NBZ0;Q6PI98;Q9H9F9;Q9H981;Q9Y5K5}

849 Pathogen[ P0C206] interacts with 12 human partners: {Q9H981;P25490;Q6PI98;Q8NBZ0;Q9Y5K5;Q96EZ8;Q9C086;O96019;P0C1Z6;Q9ULG1;Q9H9F9;Q6P4R8}

850 Pathogen[ P03363] interacts with 12 human partners: {Q9Y5K5;Q9H981;Q9ULG1;P25490;Q9C086;Q9H9F9;O96019;P0C1Z6;Q96EZ8;Q8NBZ0;Q6P4R8;Q6PI98}

851 [Cluster 78]GO:0043596+C cellular\_component [name] nuclear replication fork [def] "The Y-shaped region of a nuclear replicating DNA molecule, resulting from the separation of the DNA strands and in which the synthesis of new strands takes place. Also includes associated protein complexes." [GOC

852 Pathogen[ Q2Q067] interacts with 5 human partners: {Q8NF64;P12004;Q9H4L7;Q96HA7;Q6ZRQ5}

853 Pathogen[ P0C214] interacts with 5 human partners: {Q8NF64;Q9H4L7;Q6ZRQ5;O60264;Q96HA7}

854 Pathogen[ P03346] interacts with 6 human partners: {P12004;Q96HA7;Q6ZRQ5;Q8NF64;O60264;Q9H4L7}

855 Pathogen[ Q85601] interacts with 6 human partners: {Q96HA7;Q6ZRQ5;Q9H4L7;P12004;O60264;Q8NF64}

856 Pathogen[ P14079] interacts with 6 human partners: {Q9H4L7;Q96HA7;Q8NF64;O60264;P12004;Q6ZRQ5}

857 Pathogen[ P03383] interacts with 3 human partners: {Q6ZRQ5;Q8NF64;Q96HA7}

858 Pathogen[ P03410] interacts with 6 human partners: {Q9H4L7;O60264;P12004;Q96HA7;Q8NF64;Q6ZRQ5}

859 Pathogen[ P14075] interacts with 3 human partners: {Q6ZRQ5;Q96HA7;Q8NF64}

860 Pathogen[ P0C206] interacts with 7 human partners: {Q96HA7;Q9H4L7;Q8NF64;Q6ZRQ5;Q9UIG0;O60264;P12004}

861 Pathogen[ P03363] interacts with 5 human partners: {Q9H4L7;O60264;Q8NF64;Q96HA7;Q6ZRQ5}

862 [Cluster 79]GO:0005849+C cellular\_component [name] mRNA cleavage factor complex [def] "Any macromolecular complex involved in cleavage or polyadenylation of mRNA molecules." [GOC

863 Pathogen[ Q2Q067] interacts with 4 human partners: {Q8N684;Q16630;O94913;O43809}

864 Pathogen[ P0C214] interacts with 4 human partners: {O94913;Q8N684;Q16630;O43809}

865 Pathogen[ P03346] interacts with 4 human partners: {Q8N684;O94913;O43809;Q16630}

866 Pathogen[ Q85601] interacts with 3 human partners: {Q8N684;O94913;O43809}

867 Pathogen[ P14079] interacts with 4 human partners: {O43809;O94913;Q8N684;Q16630}

868 Pathogen[ P03383] interacts with 3 human partners: {Q8N684;O94913;O43809}

869 Pathogen[ P03410] interacts with 4 human partners: {O43809;O94913;Q8N684;Q16630}

870 Pathogen[ P14075] interacts with 3 human partners: {O43809;Q8N684;O94913}

871 Pathogen[ P0C206] interacts with 4 human partners: {O94913;Q8N684;O43809;Q16630}

872 Pathogen[ P03363] interacts with 4 human partners: {Q16630;O94913;Q8N684;O43809}

873 [Cluster 80]GO:0044427+C cellular\_component [name] chromosomal part [def] "Any constituent part of a chromosome, a structure composed of a very long molecule of DNA and associated proteins (e.g. histones) that carries hereditary information." [GOC

874 Pathogen[ Q2Q067] interacts with 2 human partners: {Q2YD98;Q6NZ36}

875 Pathogen[ P0C214] interacts with 1 human partners: {Q6NZ36}

876 Pathogen[ P03346] interacts with 2 human partners: {Q6NZ36;Q2YD98}

877 Pathogen[ Q85601] interacts with 1 human partners: {Q6NZ36}

878 Pathogen[ P14079] interacts with 2 human partners: {Q6NZ36;Q2YD98}

879 Pathogen[ P03383] interacts with 1 human partners: {Q2YD98}

880 Pathogen[ P03410] interacts with 2 human partners: {Q2YD98;Q6NZ36}

881 Pathogen[ P14075] interacts with 1 human partners: {Q2YD98}

882 Pathogen[ P0C206] interacts with 2 human partners: {Q2YD98;Q6NZ36}

883 Pathogen[ P03363] interacts with 2 human partners: {Q2YD98;Q6NZ36}

884 [Cluster 81]GO:0016442+C cellular\_component [name] RNA-induced silencing complex [def] "A ribonucleoprotein complex that contains members of the Argonaute family of proteins, small interfering RNAs (siRNAs) or microRNAs (miRNAs), and miRNA or siRNA-complementary mRNAs, in addition to a number of accessory factors. The RISC complex is involved in posttranscriptional repression of gene expression through downregulation of translation or induction of mRNA degradation." [PMID

885 Pathogen[ Q2Q067] interacts with 7 human partners: {Q8IU60;Q7KZF4;Q15633;P26196;Q9UGP4;Q9UKV8;P06730}

886 Pathogen[ P0C214] interacts with 7 human

887 partners:{Q9UGP4;P26196;Q7KZF4;Q15633;Q8IU60;Q9UKV8;P06730}  
Pathogen[ P03346] interacts with 7 human

888 partners:{P06730;Q9UGP4;Q15633;Q8IU60;Q7KZF4;Q9UKV8;P26196}  
Pathogen[ Q85601] interacts with 7 human

889 partners:{P06730;Q7KZF4;Q9UKV8;Q15633;P26196;Q9UGP4;Q8IU60}  
Pathogen[ P14079] interacts with 6 human

890 partners:{Q9UKV8;P06730;Q8IU60;P26196;Q7KZF4;Q9UGP4}  
Pathogen[ P03383] interacts with 7 human

891 partners:{Q8IU60;P26196;P06730;Q7KZF4;Q9UGP4;Q9UKV8;Q15633}  
Pathogen[ P03410] interacts with 6 human

892 partners:{Q8IU60;Q9UKV8;Q15633;P06730;Q9UGP4;Q7KZF4}  
Pathogen[ P14075] interacts with 7 human

893 partners:{P26196;Q9UGP4;P06730;Q8IU60;Q9UKV8;Q15633;Q7KZF4}  
Pathogen[ P0C206] interacts with 7 human

894 partners:{Q9UGP4;P26196;Q7KZF4;Q9UKV8;P06730;Q15633;Q8IU60}  
Pathogen[ P03363] interacts with 7 human

895 partners:{Q9UKV8;Q15633;Q7KZF4;Q9UGP4;P26196;P06730;Q8IU60}  
[Cluster 82]GO:0008180+C cellular\_component [name] signalosome [def] "A protein complex that catalyzes the deneddylation of proteins, including the cullin component of SCF ubiquitin E3 ligase\_ deneddylation increases the activity of cullin family ubiquitin ligases. The signalosome is involved in many regulatory process, including some which control development, in many species\_ also regulates photomorphogenesis in plants\_ in many species its subunits are highly similar to those of the proteasome." [PMID

896 Pathogen[ Q2Q067] interacts with 18 human  
partners:{Q9NNW5;Q9UNS2;Q8IY63;Q9Y4B6;P08238;P63167;Q7L5N1;P08107;Q92905;Q99627;Q9NZQ3;A2RU30;Q9UBW8;P61201;Q8N1K5;P80723;Q9BT78;P35579}

897 Pathogen[ P0C214] interacts with 18 human  
partners:{P62993;P61201;A2RU30;Q9UNS2;Q9BT78;Q92905;Q9Y4B6;Q9H9Q2;Q9NZQ3;P80723;Q8IY63;Q9NNW5;Q99627;Q9UBW8;P08107;Q8N1K5;Q7L5N1;P63167}

898 Pathogen[ P03346] interacts with 23 human  
partners:{P08107;A2RU30;Q99627;P35579;P80723;P62993;P28289;Q9Y4B6;Q9BT78;Q13098;Q8IY63;Q9NZQ3;O43491;Q92905;P61201;Q9H9Q2;P63167;Q9UBW8;Q9UNS2;Q8N1K5;P08238;Q7L5N1;Q9NNW5}

899 Pathogen[ Q85601] interacts with 20 human  
partners:{P08107;P62993;Q8IY63;P35579;P61201;Q9UBW8;Q9NZQ3;Q9Y4B6;P80723;Q9NNW5;Q13098;Q8N1K5;P08238;Q92905;Q9BT78;Q9H9Q2;Q9UNS2;Q99627;P63167;Q7L5N1}

900 Pathogen[ P14079] interacts with 25 human  
partners:{P35579;Q99627;P61201;P25705;Q9UBW8;A2RU30;Q13098;Q9UNS2;Q9H9Q2;Q9NZQ3;P28289;P08238;P08107;Q9UJZ1;Q9Y4B6;Q92905;Q9BT78;Q7L5N1;P62993;P63167;Q9NNW5;O43561;Q8N1K5;P80723;Q8IY63}

901 Pathogen[ P03383] interacts with 18 human  
partners:{P08107;Q9Y4B6;Q92905;Q9UBW8;P61201;Q8N1K5;Q9BT78;Q9NZQ3;Q7L5N1;Q8IY63;P80723;P35579;Q9UNS2;P63167;A2RU30;Q99627;Q9NNW5;P08238}

902 Pathogen[ P03410] interacts with 26 human  
partners:{Q9H9Q2;P08238;P25705;Q13098;O43561;Q92905;Q99627;P28289;A2RU30;P35579;Q9NZQ3;P63167;Q9BT78;Q8N1K5;Q7L5N1;O43491;P08107;Q9UNS2;Q9UJZ1;P61201;Q9UBW8;P80723;Q8IY63;P62993;Q9Y4B6;Q9NNW5}

903 Pathogen[ P14075] interacts with 18 human  
partners:{Q9NZQ3;Q9BT78;P80723;P61201;P08238;Q8IY63;Q8N1K5;A2RU30;P35579;Q9UNS2;P08107;Q7L5N1;Q92905;Q9NNW5;Q99627;Q9UBW8;P63167;Q9Y4B6}

904 Pathogen[ P0C206] interacts with 23 human  
partners:{Q9UJZ1;Q9H9Q2;Q8N1K5;Q8IY63;P63167;P61201;Q9NNW5;P62993;Q9UBW8;P08238;P80723;O43491;Q9BT78;P08107;P35579;Q99627;Q13098;Q9Y4B6;Q7L5N1;Q9NZQ3;Q9UNS2;A2RU30;Q92905}

905 Pathogen[ P03363] interacts with 22 human  
partners:{P63167;A2RU30;Q9H9Q2;P35579;P61201;Q9BT78;Q8N1K5;Q8IY63;P08107;Q99627;Q7L5N1;Q9UNS2;P28289;O43491;Q9NZQ3;P80723;Q9Y4B6;P08238;Q9UBW8;Q92905;Q9NNW5;Q13098}

906 [Cluster 83]GO:0030008+C cellular\_component [name] TRAPP complex [def] "A large complex present on the cis-Golgi that acts prior to SNARE complex assembly to mediate vesicle docking and fusion. Ras guanyl-nucleotide exchange factor activity has been demonstrated for this complex in *S. cerevisiae*." [GOC

907 Pathogen[ Q2Q067] interacts with 3 human partners:{Q8IUR0;O43617;Q9Y296}

908 Pathogen[ P0C214] interacts with 3 human partners:{Q9Y296;O43617;Q8IUR0}

909 Pathogen[ P03346] interacts with 4 human partners:{Q9Y5R8;Q9Y296;Q8IUR0;O43617}

910 Pathogen[ Q85601] interacts with 3 human partners:{Q9Y296;O43617;Q8IUR0}

911 Pathogen[ P14079] interacts with 4 human partners:{Q9Y296;Q8IUR0;Q9Y5R8;O43617}

912 Pathogen[ P03383] interacts with 3 human partners:{Q9Y296;Q8IUR0;O43617}

913 Pathogen[ P03410] interacts with 4 human partners:{Q9Y5R8;Q8IUR0;Q9Y296;O43617}

914 Pathogen[ P14075] interacts with 3 human partners:{O43617;Q8IUR0;Q9Y296}

915 Pathogen[ P0C206] interacts with 4 human partners:{Q9Y296;Q8IUR0;O43617;Q9Y5R8}

916 Pathogen[ P03363] interacts with 2 human partners:{Q9Y296;O43617}

917 [Cluster 84]GO:0030054+C cellular\_component [name] cell junction [def] "A plasma membrane part that forms a specialized region of connection between two cells or between a cell and the extracellular matrix. At a cell junction, anchoring proteins extend through the plasma membrane to link cytoskeletal proteins in one cell to cytoskeletal proteins in neighboring cells or to proteins in the extracellular matrix." [GOC

- 918 Pathogen[ Q2Q067] interacts with 99 human  
partners: {Q9BTW9;Q68CZ2;O75161;Q14258;Q92681;Q9Y3F4;Q8WX93;Q8NI35;Q8IY63;Q14160;Q9NPB6;Q96B97;P30419;Q9BYG5;Q9P2M7;Q8IZW8;O95886;Q8N3V7;Q9NSC5;Q9NR48;Q92797;O95295;P54259;Q5JTD0;Q9GZS1;Q9NPG3;A6NIX2;O60437;Q96TA1;A6NKD9;Q14511;Q9P1Y5;Q9P1A6;Q13884;Q8IZP0;P56945;Q96EV8;Q9H307;Q96SN8;Q96HR8;O14910;P15924;Q9Y2D8;Q86UE4;Q86TP1;Q86UL8;O95049;Q00444;Q99569;O60711;Q9HBL0;Q96IF1;Q12959;Q9NYF0;O95721;O15061;Q9UQB3;P11532;Q90157;P17987;P78352;Q05084;Q9UGP4;Q96F07;Q9UPX8;Q15654;Q8TES7;P46939;Q9C0D0;Q674X7;Q9UDY2;Q9NVD7;Q5TCQ9;O60299;Q9NZU7;P50570;Q86WG3;Q8TAC9;Q9NRI5;Q68DX3;P35269;Q86SQ7;Q13425;O00161;Q9UPA5;O60504;Q93052;Q8WVM7;Q9BX66;Q9BVN2;Q9BYG4;Q12857;P61586;Q9Y250;O15083;Q8N668;Q96EY1;Q9NUP9;O14490}
- 919 Pathogen[ P0C214] interacts with 95 human  
partners: {Q9UGP4;O14490;O15083;Q5JTD0;O14910;O75161;Q68DX3;O15061;Q8IZP0;Q9UPX8;P56945;Q8NI35;Q9NRI5;Q5TCQ9;O95295;P35269;Q8TAC9;P15924;Q9Y2D8;Q9BTW9;Q9P1Y5;Q96SN8;P62166;Q92797;P61586;Q9BX66;Q96F07;Q9UPU9;Q9H307;Q9P1A6;O60299;O95721;Q8N668;O60437;Q9NSC5;Q13884;Q86UE4;O95049;Q68CZ2;Q9Y250;P11532;P78352;Q14258;Q9GZS1;Q9UQB3;Q92681;Q674X7;A6NIX2;Q9NPB6;Q15124;Q13425;P46939;Q16658;Q96TA1;Q86TP1;Q15654;O95886;O60711;Q9NZU7;Q96EV8;Q9Y3F4;Q8TES7;Q12959;Q14511;Q14160;Q9UDY2;Q9HD26;Q9C0D0;Q12857;Q9HBL0;Q9P2M7;Q8WVM7;Q9BVN2;Q9BYG5;P17987;Q9NR48;Q8IY63;P30419;O60504;Q86SQ7;A6NKD9;P50570;Q05084;Q9NVD7;Q86WG3;Q8N3V7;Q07157;Q9NYF0;O00161;Q96B97;Q96EY1;Q9BYG4;P54259;Q96HR8;Q9NPG3}
- 920 Pathogen[ P03346] interacts with 141 human  
partners: {Q13425;O60437;A6NKD9;Q92681;Q5JU85;Q9NSC5;Q9NPG3;P15924;Q9NRI5;Q8N3V7;O14490;Q96AC1;Q96B97;P50570;Q8WX93;Q9UGP4;Q9UDY2;Q14258;Q14511;Q96RT1;Q68DX3;Q86UE4;Q8IZW8;Q99569;Q96F07;O95295;Q12857;Q8N668;P78352;Q9Y2D8;Q8IZP0;Q5TCQ9;Q13884;Q6ZWB6;Q9NZU7;Q68CZ1;Q9Y6D5;Q15149;Q9H307;O75970;O15061;Q13835;Q9NPB6;Q96IF1;Q9P1Y5;Q15942;Q6XZF7;Q9BX66;Q68CZ2;Q05084;P55196;P46939;Q8TEW0;O15083;Q9Y215;Q69YQ0;Q13424;Q5JTD0;Q9UQB3;Q8IY63;Q68DU8;Q8NI35;O75161;O00161;Q8N3R9;P56945;Q9P021;Q96TA1;Q8TAC9;Q9NUP9;Q86UL8;Q96EV8;Q86SQ7;Q9Y3F4;Q9HD26;Q9BYG5;Q96SN8;Q9Y4G6;O43491;O95721;P48059;Q9HBL0;Q9Y250;Q5T2T1;O95886;O95049;Q07157;A6NIX2;Q6DN90;Q9BYG4;O00522;Q9C0D0;Q8N157;P62166;O60299;Q9HAP6;Q9NVD7;Q8WVM7;Q9BUZ4;Q92797;Q9NYF0;Q9UPP2;P35269;Q15700;Q16658;P11532;O60504;Q9BVN2;Q9UI14;P56545;Q96CX2;Q14160;Q8TES7;Q674X7;Q9H8V3;Q5TCZ1;Q9NR48;Q9C0H9;Q93052;Q9ULU8;Q9Y2J0;Q15654;Q9UPX8;P0C214;Q96HR8;O60711;Q00444;Q96EY1;Q9NRD5;Q9GZS1;O14910;P54259;Q86WG3;Q9P2M7;Q9P1A6;Q6IQ23;Q9UPA5;P61586;Q12959;Q86TP1;P17987}
- 921 Pathogen[ Q85601] interacts with 110 human  
partners: {Q99569;P54259;O14490;Q9Y250;O75161;Q8WX93;Q9UPX8;Q9NZU7;Q9NVD7;Q9NUP9;Q14258;O14910;Q13884;Q96RT1;O60437;Q9NPG3;Q96F07;Q9BYG5;Q8IY63;O95295;Q8TAC9;A6NIX2;O95049;Q9H307;Q68CZ2;Q96HR8;Q12857;Q9BX66;Q96SN8;Q9NR48;Q86UL8;Q15654;Q9UDY2;Q9P1Y5;Q9NYF0;Q9P1A6;Q93052;Q9BVN2;Q9BTW9;O15083;Q6IQ23;P11532;P17987;Q8WVM7;Q9GZS1;P15924;Q9UQB3;Q8NI35;Q96TA1;O60711;Q86TP1;Q86SQ7;Q92681;P56945;Q8TES7;Q15124;Q96EV8;Q9Y2D8;Q8IZW8;Q9HD26;Q68DX3;Q9UPA5;Q8N3V7;P46939;Q13425;P50570;P35269;Q15942;Q96B97;Q9Y3F4;Q14160;P78352;Q8N668;Q5JTD0;Q5TCQ9;Q9NPB6;Q86UE4;P61586;Q9C0D0;Q69YQ0;P48059;Q07157;Q92797;Q96IF1;A6NKD9;Q12959;Q9UGP4;Q86WG3;Q9NSC5;Q9NRI5;O60504;Q96CX2;Q674X7;O95886;Q8IZP0;Q9HBL0;P30419;P17677;Q9UPU9;P62166;Q14511;O00161;Q00444;Q96EY1;Q05084;O95721;Q9P2M7;O60299;O15061;Q9BYG4}
- 922 Pathogen[ P14079] interacts with 160 human  
partners: {Q5JTD0;O75161;Q9BTW9;O95425;Q68DX3;O43759;Q6XZF7;Q9UPP2;Q05084;Q8N7P3;C9JDP6;P17677;Q8TB68;Q86WG3;Q9C0D0;Q92681;Q6IQ23;P11532;Q9BYG5;P35269;Q9UDY2;Q9BVN2;Q9P266;A4UGR9;Q15700;P56750;Q8IZW8;Q16658;Q9NR12;P15924;Q9HBM0;O15231;A6NM45;Q07157;Q8N157;Q8WX93;Q93052;Q5T2T1;Q68CZ1;Q9GZS1;Q13835;Q9Y6D5;Q9ULU8;Q9UPU9;Q9UQB3;Q86TP1;Q9Y250;Q9UPA5;Q9UI14;A6NKD9;Q8IZP0;Q9NRI5;Q9Y3F4;O60437;O60504;Q96B97;Q15124;Q96HR8;O60711;Q14118;Q13424;Q69YQ0;Q9C0H9;Q14258;Q9H307;Q9BUZ4;O00501;P50552;P46939;Q92797;Q92797;Q96RT1;O15061;Q8TEW0;Q9HBL0;B4DS77;Q9HD26;Q15149;Q9NUP9;O95721;Q8N6F1;Q7Z7J9;Q8TAC9;Q96IF1;Q8NI35;O95049;Q68CZ2;P17987;Q9NPG3;Q9BYG4;Q702N8;Q99569;A6NIX2;P62166;Q96AC1;Q8N3V7;Q68DU8;P30419;P61586;O43294;Q96B33;Q9H8V3;Q9HAP6;Q9BQJ4;O43612;Q8N668;Q9NSC5;Q86UE4;O15083;O95295;Q92817;Q5T0D9;Q96F07;Q8N3R9;Q9P2M7;Q8WVH0;Q00444;Q86UL8;Q86SQ7;Q8TES7;Q9P1Y5;P54259;Q96CX2;Q9UKB5;O60299;O95886;Q7Z7G2;Q96EV8;Q9P021;Q9P1A6;P49023;Q16625;Q96TA1;Q6DN90;Q9NPB6;Q9Y2D8;Q96FX8;Q9BX66;P48059;Q5TCZ1;Q9NVD7;Q12857;O15259;Q9Y4J8;Q96SN8;O43761;Q96EY1;Q8IY63;Q9NZU7;Q9UGP4;O14490;Q96A59;Q674X7;O00522;O75970;Q9NYF0;Q5VW36;Q9UPX8;Q15942}
- 923 Pathogen[ P03383] interacts with 74 human  
partners: {Q92681;P15924;P56945;Q9P1A6;P35269;Q14160;Q13884;Q86UE4;A6NKD9;O95295;A6NIX2;Q9HD26;Q9NRI5;Q86WG3;Q8TAC9;Q8N668;Q96SN8;O95886;O60299;Q5JTD0;Q92797;O14490;Q9GZS1;O15061;P46939;Q96EV8;O95049;Q15654;Q8TES7;Q07157;Q9UQB3;Q05084;Q86SQ7;Q12857;Q96TA1;P61586;Q96F07;Q9BYG5;Q9UGP4;Q14511;O60711;Q9P1Y5;Q9NPB6;Q9P2M7;P11532;Q9Y3F4;Q9NPG3;Q8IY63;Q96HR8;Q5TCQ9;Q9H307;Q9NSC5;Q9NYF0;Q86TP1;O75161;Q68DX3;O60504;Q14258;Q8N3V7;O00161;Q9Y2D8;O15083;O60437;Q9C0H9;P78352;Q96EY1;O14910;P54259;Q9UDY2;Q13425;Q9BVN2;Q9Y250;Q8WVM7;Q9BYG4}
- 924 Pathogen[ P03410] interacts with 174 human  
partners: {O60711;Q9BVN2;Q9P1A6;P17987;Q96TA1;Q9HBM0;O14910;P15924;Q96B33;A6NKD9;Q96RT1;Q16658;Q8N7P3;Q8N3V7;Q8TAC9;O43612;Q9Y2J0;O15061;Q8TEW8;Q702N8;O15259;Q12959;Q9C0D0;Q9P1Y5;Q9UGP4;Q0VF96;Q5VW36;O43759;O60299;P11532;Q5TCQ9;Q96SN8;Q12857;O00501;Q86WG3;Q13425;Q68DU8;O43294;Q69YQ0;Q15124;O75161;P30419;Q8N6F1;Q8TB68;Q9NUP9;P50570;Q86TP1;Q8NI35;Q9NSC5;Q13835;Q9Y3F4;O14490;Q8WVH0;Q14160;Q9NPG3;P56747;Q05084;O43761;Q14258;Q13884;O15231;Q9HAP6;Q15700;Q9BQJ4;O95295;Q6ZWB6;Q15654;Q9HD26;Q96IF1;Q5T2T1;O95425;O75970;A6NIX2;Q96A59;Q9UDY2;Q8IZW8;Q93052;Q9NRD5;P50552;Q7Z7G2;Q14511;Q96FX8;C9JDP6;Q68CZ2;Q92797;O43491;Q96CX2;P61586;Q15942;Q07157;Q9BTW9;Q9UPA5;Q86UE4;Q674X7;Q9UPU9;P46939;Q8N157;Q9UPP2;Q9HBL0;Q9GZS1;Q6XZF7;Q9P266;Q9ULU8;Q86SQ7;Q9Y6D5;Q7Z7J9;Q14118;P35269}

;Q9Y4G6;Q9NZU7;Q9NYF0;Q5JTD0;Q8IZP0;P48059;O60504;O00522;Q16625;Q9NRI5;A4UGR9;P56945;B4DS77;P54259;Q5T0D9;P17677;Q96B97;Q8TEW0;O95886;Q9NPB6;Q96HR8;Q8WVM7;Q9UQB3;Q9Y250;Q9NVD7;Q9UPX8;Q9P2M7;A6NM45;Q86UL8;Q96F07;Q9P021;Q5TCZ1;Q9H8V3;Q9C0H9;P56750;Q13424;O95721;Q15149;P62166;Q68CZ1;Q8TES7;Q68DX3;P78352;Q8IY63;Q92817;Q9BSN7;Q9UI14;O00161;Q8N668;Q92681;Q96EV8;Q8WX93;Q96EY1;Q9Y215;O60437;O95471;Q9BX66;Q6IQ23;Q9BYG4;Q8N3R9;Q9Y4J8;Q9BYG5;O15083;Q9H307;O95049;Q99569}

925 Pathogen[ P14075] interacts with 79 human partners: {Q9H307;Q92797;Q96F07;Q14511;Q9P266;O95049;Q68DX3;Q86WG3;P11532;Q92681;Q9Y3F4;Q96FX8;Q8N3V7;Q9GZS1;Q13884;O15083;Q14160;O95295;Q07157;Q86UE4;Q8WVM7;Q9BVN2;Q13425;Q86SQ7;O95886;Q9UGP4;Q9Y2D8;Q9BYG4;Q9Y250;Q9HD26;Q96SN8;Q8N668;Q5TCQ9;O15061;Q5T0D9;Q5JTD0;Q8IY63;Q9NRI5;Q96HR8;Q96TA1;Q9UQB3;Q12857;Q8TES7;O75161;O14910;O60299;Q9NSC5;P46939;P35269;A6NIX2;O14490;P61586;Q14258;Q15654;O00161;Q05084;Q9P1A6;Q96EV8;Q9UDY2;P78352;Q8TAC9;Q9HBM0;A6NKD9;O60711;Q9BYG5;O60504;P54259;Q9NPB6;O60437;Q9P2M7;Q9C0H9;Q9UPA5;Q9NYF0;Q9P1Y5;Q96EY1;P56945;P15924;Q86TP1;Q9NPG3}

926 Pathogen[ P0C206] interacts with 142 human partners: {A6NKD9;Q9HBL0;P46939;Q9NUP9;Q86TP1;Q9Y3F4;Q00444;P78352;Q96RT1;Q96SN8;Q96F07;P17677;Q86SQ7;O60504;O15061;Q8N3V7;P62166;Q92681;Q15700;O75161;O43759;Q96FX8;O95721;P30419;O95049;Q14258;Q9UGP4;Q9NVD7;Q96IF1;Q9UPA5;Q9Y2J0;Q8IY63;Q96CX2;Q96B97;Q9P021;Q9BTW9;Q5TCQ9;Q9P266;A6NIX2;Q9H307;Q9BYG5;Q8WX93;Q8IZW8;Q15654;Q96TA1;O95886;Q9UDY2;P17987;Q5TCZ1;O60299;Q9NZU7;Q5JTD0;Q9C0D0;Q9UI14;Q9Y2D8;Q15124;P61586;Q9P1Y5;P54259;Q12857;Q69YQ0;O00161;O60437;Q5T0D9;Q8N3R9;Q9NPG3;Q92797;Q8TEW0;Q9Y4J8;Q13884;Q9BUZ4;Q5T2T1;O14490;P35269;Q9ULU8;Q7Z7G2;Q9NSC5;Q13835;O15083;Q16658;Q9UPU9;Q8IZP0;Q13425;Q9NR48;Q9Y6D5;P55196;Q96EV8;P48059;Q14160;Q99569;Q15942;O43491;Q9NRI5;Q8N135;Q9UPX8;Q8N157;Q9NPB6;O43294;Q9H8V3;O14910;O95295;Q9C0H9;Q96HR8;Q9BX66;P15924;Q9GZS1;Q07157;Q9UPP2;Q86UE4;Q9NYF0;Q9P2M7;Q674X7;P56945;Q6XZF7;P11532;Q86UL8;Q8TAC9;Q13424;Q8N668;O60711;Q86WG3;Q9HBM0;Q96EY1;Q9UQB3;Q9NRD5;Q68DX3;Q6IQ23;Q12959;Q8WVM7;Q9HD26;Q9Y250;Q93052;Q14511;Q05084;Q9BYG4;Q9BQJ4;P50570;O00522;Q9P1A6;Q9BVN2;Q8TES7}

927 Pathogen[ P03363] interacts with 128 human partners: {Q9P021;Q15654;Q12959;Q8IZP0;Q8N3V7;Q9Y3F4;P46939;O95049;Q96RT1;O75161;Q13835;A6NKD9;Q9BX66;O15061;P54259;O60437;Q14258;Q9UPP2;Q9UPX8;Q96B97;O14910;Q14160;P78352;Q8TES7;P50570;Q5JTD0;P56545;Q9NPG3;Q9H307;Q9NPB6;Q9Y2D8;Q96F07;Q9C0D0;Q9NYF0;Q8IY63;Q15700;Q9GZS1;Q5T2T1;Q86UE4;Q99569;O75970;Q9BYG4;Q07157;Q7L576;Q93052;Q9NVA2;Q9Y4G6;Q92797;Q96IF1;Q8N668;Q13425;P15924;P35269;Q5TCZ1;Q9UGP4;Q9NSC5;Q00444;Q8N157;Q86WG3;Q15149;Q9UPU9;Q9P1Y5;Q9Y250;Q6XZF7;O95721;Q14511;P11532;O00522;Q5TCQ9;Q8WVM7;Q8N3R9;Q9BTW9;Q05084;Q9Y215;P17987;Q9NZU7;Q8IZW8;Q674X7;Q8WX93;Q9UDY2;Q13884;Q9BYG5;O95295;Q68CZ2;Q9NR48;Q9HBL0;O43491;Q8N135;Q92681;Q9BVN2;Q5JU85;P56945;Q9NRI5;O15083;A6NIX2;Q86UL8;O95886;Q6DN90;O15259;Q9P1A6;O14490;Q96AC1;Q9NVD7;O00161;Q9BUZ4;Q9NUP9;Q96TA1;O60299;Q96EY1;Q86SQ7;Q9NR12;Q9UQB3;Q16658;Q12857;Q9P2M7;Q92817;Q6IQ23;Q96HR8;Q86TP1;Q9HD26;Q15942;O60711;Q13424;Q68DX3;Q69YQ0;Q96SN8;Q9C0H9}

928 [Cluster 85]GO:0005672+C cellular\_component [name] transcription factor TFIIA complex [def] "A component of the transcription machinery of RNA Polymerase II. In humans, TFIIA is a heterotrimer composed of an alpha (P35), beta (P19) and gamma subunits (P12)." [GOC

929 Pathogen[ Q2Q067] interacts with 5 human partners: {Q9UNN4;P20226;P52657;P62380;P52655}

930 Pathogen[ P0C214] interacts with 5 human partners: {P52657;P62380;P52655;Q9UNN4;P20226}

931 Pathogen[ P03346] interacts with 5 human partners: {P20226;P62380;Q9UNN4;P52657;P52655}

932 Pathogen[ Q85601] interacts with 5 human partners: {Q9UNN4;P52657;P52655;P62380;P20226}

933 Pathogen[ P14079] interacts with 3 human partners: {P62380;Q9UNN4;P52657}

934 Pathogen[ P03383] interacts with 4 human partners: {P52655;P20226;P52657;Q9UNN4}

935 Pathogen[ P03410] interacts with 5 human partners: {P52655;Q9UNN4;P62380;P20226;P52657}

936 Pathogen[ P14075] interacts with 4 human partners: {P52657;P20226;P52655;Q9UNN4}

937 Pathogen[ P0C206] interacts with 5 human partners: {P20226;P62380;P52657;P52655;Q9UNN4}

938 Pathogen[ P03363] interacts with 5 human partners: {Q9UNN4;P62380;P52657;P20226;P52655}

939 [Cluster 86]GO:0031526+C cellular\_component [name] brush border membrane [def] "The portion of the plasma membrane surrounding the brush border." [GOC

940 Pathogen[ Q2Q067] interacts with 3 human partners: {P08238;P40855;Q5T2W1}

941 Pathogen[ P0C214] interacts with 3 human partners: {P40855;Q5T2W1;P11168}

942 Pathogen[ P03346] interacts with 3 human partners: {Q5T2W1;P40855;P08238}

943 Pathogen[ Q85601] interacts with 4 human partners: {P11168;Q5T2W1;P08238;P40855}

944 Pathogen[ P14079] interacts with 3 human partners: {P40855;P08238;Q5T2W1}

945 Pathogen[ P03383] interacts with 4 human partners: {Q5T2W1;P11168;P08238;P40855}

946 Pathogen[ P03410] interacts with 5 human partners: {Q5T2W1;P08238;P11168;P40855;P55157}

947 Pathogen[ P14075] interacts with 4 human partners: {P40855;P08238;Q5T2W1;P11168}

948 Pathogen[ P0C206] interacts with 4 human partners: {Q5T2W1;P11168;P08238;P40855}

949 Pathogen[ P03363] interacts with 3 human partners: {P40855;P08238;Q5T2W1}

950 [Cluster 87]GO:0005643+C cellular\_component [name] nuclear pore [def] "Any of the numerous similar discrete openings in the nuclear envelope of a eukaryotic cell, where the inner and outer nuclear membranes are joined." [ISBN

951 Pathogen[ Q2Q067] interacts with 58 human



partners: {Q14974; Q96EE3; P52948; Q12769; O00410; Q96HA1; P49790; P49792; P55735; Q9H2T7; O75694; P62826; P78406; A8CG34; Q8WYP5; Q9UBU9; Q13257; P61970; Q99567; Q8NFH7; P52594; Q7Z3B4; Q8NFH4; P63241; P12270; P63165; Q9UND3; Q9BW27; Q53GS7; Q8TEM1; Q8TEX9; Q9BVL2; Q9UKX7; Q6IS14; Q9NRG9; Q8NFH3; O00505; Q9UIA9; Q14739; P37198; A6NF01; Q92621; Q14764; O95373; O15504; Q9Y6D9; P57740; Q9HC62; O95271; Q9UKK6; Q8WUM0; Q9GZV4; O43592; P35658; Q8NFH5; P52294; Q5SRE5; O95149}

952 Pathogen[ P0C214] interacts with 61 human  
partners: {Q8TEX9; P55735; Q14739; Q13257; Q6IS14; Q9UIA9; Q8NFH5; O00159; Q9GZV4; Q8TEM1; Q14764; P78406; P57740; Q99567; Q8WYP5; Q9UND3; Q8NF1F7; O75694; Q96EE3; P49792; Q9UKX7; O95149; P63241; P46060; A8CG34; P49790; A6NF01; P37198; Q9BW27; P52294; P63165; Q53GS7; Q9UKK6; Q9NRG9; P35658; O43592; Q8NFH3; O00505; P62826; Q9NUU7; O15504; Q9UMR2; Q9HC62; P12270; Q14974; P52594; Q9H2T7; Q8NFH4; Q9BVL2; O95271; P61970; Q5SRE5; O95373; Q7Z3B4; Q8WUM0; Q9Y6D9; P52948; Q92621; Q9UBU9; Q12769; Q96HA1}

953 Pathogen[ P03346] interacts with 64 human  
partners: {Q8TEM1; Q8TEX9; Q9Y6D9; P55735; Q9H1M0; Q8NFH4; Q8WUM0; Q14739; P12270; O95149; Q12769; Q9H2T7; Q96EE3; Q99567; Q9GZV4; Q14764; Q9UKX7; O75694; Q9UMR2; Q9NRG9; P78406; P57740; Q8WYP5; Q9BVL2; Q8NF1F7; O00410; Q53GS7; O00505; Q8NFH5; P63241; P37198; Q8NFH3; P35658; Q9UIA9; P62826; Q6IS14; Q5SRE5; Q9BTX1; O43592; Q92621; Q9BW27; P46060; O95373; O14715; P52594; P63165; Q9NUU7; Q9HC62; Q9UBU9; O95271; A8CG34; Q9UND3; P49790; P61970; Q96HA1; Q9UKK6; A6NF01; Q7Z3B4; P52294; Q13257; O15504; P49792; Q14974; P52948}

954 Pathogen[ Q85601] interacts with 61 human  
partners: {Q8TEM1; Q5SRE5; Q9UIA9; Q8NFH4; O95149; Q8NFH3; P46060; Q96EE3; Q9GZV4; A8CG34; Q12769; Q9UBU9; P78406; P57740; Q53GS7; Q9NRG9; Q8WYP5; Q9HC62; P62826; Q8WUM0; Q8NF1F7; Q9UMR2; P61970; Q14764; P63241; P52594; P12270; O75694; O15504; Q14974; Q13257; Q9BW27; O00159; Q9UKK6; Q92621; O95373; Q8TEX9; Q9Y6D9; Q9NUU7; P55735; P52948; A6NF01; Q9UKX7; Q8NFH5; P35658; P63165; Q99567; Q9H2T7; P49792; Q9BVL2; Q96HA1; O95271; O00505; O43592; Q9UND3; Q7Z3B4; P52294; P49790; O00410; Q14739; Q6IS14}

955 Pathogen[ P14079] interacts with 59 human  
partners: {Q8NFH5; O95373; Q9BW27; Q96HA1; P61970; O95271; P57740; Q8NF1F7; Q6IS14; P35658; A6NF01; A8CG34; O43592; O14715; Q92621; P52294; Q8TEM1; P46060; Q9UBU9; P52594; Q14739; P63165; O95149; Q9UKX7; Q9BVL2; O15504; Q8WUM0; Q9HC62; P12270; Q53GS7; Q9UND3; Q8WYP5; O00410; Q99567; Q13257; Q14974; Q9BVL2; Q8NFH3; Q96EE3; P37198; P49790; O00505; Q8TEX9; P63241; Q8NFH4; Q14764; P78406; Q7Z3B4; Q9UIA9; P55735; P62826; Q12769; Q9H2T7; Q5SRE5; Q9NRG9; Q9GZV4; O75694; Q9BTX1; P52948}

956 Pathogen[ P03383] interacts with 56 human  
partners: {Q9BVL2; Q96EE3; O15504; Q13257; Q8WUM0; Q9UBU9; Q92621; P49792; Q8NFH4; Q9UIA9; A6NF01; P55735; P12270; A8CG34; P52948; P78406; P57740; Q8NFH5; Q8WYP5; Q9GZV4; Q8NF1F7; O00505; Q8TEM1; Q53GS7; P63241; Q12769; P62826; Q99567; Q9BW27; Q9H2T7; P63165; O95149; Q9BTX1; Q14974; Q5SRE5; P35658; Q96HA1; Q9NRG9; Q9UND3; Q9HC62; O95373; P61970; O43592; P37198; Q9UKX7; O95271; Q7Z3B4; P52294; P52594; P49790; Q14764; O75694; Q8NFH3; O00410; Q9UKK6; Q9Y6D9}

957 Pathogen[ P03410] interacts with 63 human  
partners: {Q99567; Q7Z3B4; Q9BW27; Q9H1M0; P52594; Q14974; Q14739; O00505; A6NF01; Q9UKX7; P63165; P52294; Q8NFH4; Q5SRE5; P52948; O15504; O00159; O75694; P78406; Q96HA1; Q8TEX9; Q8NF1F7; Q9UMR2; O14715; P49790; Q14764; Q9HC62; P12270; Q9NUU7; P62826; P35658; O95271; Q8NFH5; Q9UND3; Q8TEM1; Q9UBU9; Q96EE3; Q9H2T7; Q8WUM0; P63241; A8CG34; O00410; Q9GZV4; P57740; P55735; Q12769; O43592; Q9UIA9; Q9NRG9; Q8WYP5; Q8NFH3; Q9BVL2; Q9UKK6; Q9BTX1; Q92621; P46060; O95373; P49792; O95149; Q13257; P61970; Q6IS14; Q53GS7}

958 Pathogen[ P14075] interacts with 56 human  
partners: {P63165; Q14764; Q9Y6D9; P61970; Q9H2T7; A8CG34; P78406; P57740; Q8WYP5; Q53GS7; P49792; Q8NF1F7; Q13257; Q9UKX7; Q9GZV4; P63241; P35658; P12270; A6NF01; Q92621; P55735; O43592; Q9BTX1; O00505; Q96HA1; Q9BW27; P52294; O95373; Q8TEM1; Q9UND3; Q9HC62; Q96EE3; P37198; O00410; Q5SRE5; P62826; Q9UIA9; O95149; P52594; Q8NFH3; O15504; Q99567; Q12769; Q9UBU9; Q14974; Q9BVL2; P49790; Q8WUM0; O95271; O75694; Q9NRG9; Q7Z3B4; Q8NFH4; Q9UKK6; Q8NFH5; P52948}

959 Pathogen[ P0C206] interacts with 61 human  
partners: {O95271; Q53GS7; Q96EE3; Q92621; Q8WYP5; Q9GZV4; P49790; Q6IS14; O95149; Q14739; Q5SRE5; Q8NFH5; Q9NRG9; Q9NUU7; O43592; Q9UKK6; Q9Y6D9; Q7Z3B4; Q14974; Q9HC62; Q96HA1; O00505; P55735; P62826; P57740; Q13257; O00410; Q8WUM0; P46060; P49792; Q8TEM1; Q9UKX7; Q9UBU9; O95373; O75694; O00159; Q8TEX9; Q9BTX1; A6NF01; Q9H2T7; Q99567; Q8NFH4; P63241; P78406; O15504; A8CG34; Q9UIA9; Q12769; Q9UMR2; P63165; Q9UND3; Q8NFH3; P52294; Q8NF1F7; P61970; P35658; Q9BW27; Q9BVL2; Q14764; P12270; O14715}

960 Pathogen[ P03363] interacts with 60 human  
partners: {P46060; Q53GS7; Q7Z3B4; Q9GZV4; Q9Y6D9; Q5SRE5; P12270; Q8NFH4; Q9UND3; P61970; Q8WYP5; Q8NFH3; Q12769; O00410; Q9H2T7; O00505; Q9NUU7; A6NF01; A8CG34; Q9UKX7; Q9UBU9; Q9NRG9; Q8WUM0; Q9BVL2; Q99567; P63165; Q9HC62; Q8TEX9; O95271; Q96HA1; P49792; P35658; Q13257; Q14974; O75694; Q9UKK6; P49790; P57740; Q9UMR2; Q9BTX1; P63241; P78406; O95373; P52948; Q14739; O15504; P52594; Q6IS14; P37198; P62826; O43592; Q8NF1F7; Q92621; Q14764; Q8NFH5; O95149; P55735; Q9BW27; Q9UIA9; P52294}

961 [Cluster 88]GO:0044302+C cellular\_component [name] dentate gyrus mossy fiber [def] "Distinctive, unmyelinated axons produced by granule cells." [NIF\_Subcellular

962 Pathogen[ Q2Q067] interacts with 1 human partners: {Q9UQF2}

963 Pathogen[ P0C214] interacts with 1 human partners: {Q9UQF2}

964 Pathogen[ P03346] interacts with 1 human partners: {Q9UQF2}

965 Pathogen[ Q85601] interacts with 1 human partners: {Q9UQF2}

966 Pathogen[ P14079] interacts with 1 human partners: {Q9UQF2}

967 Pathogen[ P03383] interacts with 1 human partners: {Q9UQF2}

968 Pathogen[ P03410] interacts with 1 human partners: {Q9UQF2}

969 Pathogen[ P14075] interacts with 1 human partners: {Q9UQF2}

970 Pathogen[ P0C206] interacts with 1 human partners: {Q9UQF2}

971 Pathogen[ P03363] interacts with 1 human partners:{Q9UQF2}  
972 [Cluster 89]GO:0044309+ cellular\_component [name] neuron spine [def] "A small  
membranous protrusion, often ending in a bulbous head and attached to the neuron by a  
narrow stalk or neck." [ISBN  
973 Pathogen[ Q2Q067] interacts with 1 human partners:{P78352}  
974 Pathogen[ P0C214] interacts with 1 human partners:{P78352}  
975 Pathogen[ P03346] interacts with 1 human partners:{P78352}  
976 Pathogen[ Q85601] interacts with 1 human partners:{P78352}  
977 Pathogen[ P14079] interacts with 1 human partners:{O75781}  
978 Pathogen[ P03383] interacts with 1 human partners:{P78352}  
979 Pathogen[ P03410] interacts with 2 human partners:{O75781;P78352}  
980 Pathogen[ P14075] interacts with 1 human partners:{P78352}  
981 Pathogen[ P0C206] interacts with 1 human partners:{P78352}  
982 Pathogen[ P03363] interacts with 1 human partners:{P78352}  
983 [Cluster 90]GO:0005905+ cellular\_component [name] coated pit [def] "A part of the  
endomembrane system in the form of an invagination of a membrane upon which a clathrin  
coat forms, and that can be converted by vesicle budding into a clathrin-coated vesicle.  
Coated pits form on the plasma membrane, where they are involved in receptor-mediated  
selective transport of many proteins and other macromolecules across the cell membrane,  
in the trans-Golgi network, and on some endosomes." [GOC  
984 Pathogen[ Q2Q067] interacts with 14 human  
partners:{O94973;P56377;O95782;P53675;O00189;P63010;Q96PC3;Q96CW1;Q00610;P61966;P0949  
7;P09496;P14672;Q9P0V3}  
985 Pathogen[ P0C214] interacts with 18 human  
partners:{Q96CW1;Q9P0V3;Q9UM54;O00189;Q9Y6I3;P63010;P53675;P56377;Q96PC3;P10809;Q9BQI  
5;O94973;P09497;P61966;P09496;O95782;P53680;P14672}  
986 Pathogen[ P03346] interacts with 22 human  
partners:{P61966;P63010;P53680;P56377;O95782;O00189;P09496;Q9P0V3;Q9Y587;Q96CW1;P4256  
6;Q96PC3;P53675;Q13492;P09497;Q96D71;Q9Y6I3;Q9BQI5;P14672;O94973;Q00610;O75146}  
987 Pathogen[ Q85601] interacts with 17 human  
partners:{P53675;Q00610;P09496;Q96CW1;P56377;P53680;O94973;Q96PC3;P09497;Q9Y6I3;P6301  
0;Q9P0V3;Q9UM54;P61966;P14672;O00189;O95782}  
988 Pathogen[ P14079] interacts with 25 human  
partners:{Q13492;Q96CW1;P61966;O75146;Q00610;Q9Y6I3;P14672;P42566;P56377;O00189;O6089  
5;Q9UM54;Q9P0V3;O95782;Q8NC96;Q9BQI5;Q9NVZ3;P09497;P63010;O94973;P53675;Q96PC3;P53680  
;P09496;Q9Y587}  
989 Pathogen[ P03383] interacts with 12 human  
partners:{Q96CW1;P56377;Q00610;P53675;O00189;P63010;Q9BQI5;O95782;Q9P0V3;P09497;P1467  
2;O94973}  
990 Pathogen[ P03410] interacts with 25 human  
partners:{Q00610;Q8NC96;P09496;O95782;Q96PC3;Q96CW1;P53680;Q9Y6I3;O60895;Q9NVZ3;Q0JRZ  
9;Q9P0V3;O75146;Q9Y587;Q9UM54;Q13492;Q96D71;P09497;Q9BQI5;P63010;P53675;P61966;P42566  
;O94973;P56377}  
991 Pathogen[ P14075] interacts with 13 human  
partners:{Q9BQI5;Q9P0V3;P09497;P09496;O94973;Q96CW1;P53675;O00189;O95782;P63010;P5637  
7;P14672;Q00610}  
992 Pathogen[ P0C206] interacts with 21 human  
partners:{P53680;P63010;P53675;Q9UM54;O94973;Q8NC96;P61966;Q00610;P09496;Q9Y587;P0949  
7;Q96CW1;Q9Y6I3;Q9BQI5;O95782;P42566;Q9P0V3;P14672;Q96PC3;O00189;P56377}  
993 Pathogen[ P03363] interacts with 13 human  
partners:{Q9P0V3;Q96RU3;Q00610;O94973;P63010;O00189;O95782;P14672;O75146;Q9BQI5;P0949  
7;P53675;Q96CW1}  
994 [Cluster 91]GO:0008287+ cellular\_component [name] protein serine/threonine  
phosphatase complex [def] "A complex, normally consisting of a catalytic and a regulatory  
subunit, which catalyzes the removal of a phosphate group from a serine or threonine  
residue of a protein." [GOC  
995 Pathogen[ Q2Q067] interacts with 1 human partners:{Q6NUP7}  
996 Pathogen[ P0C214] interacts with 1 human partners:{Q6NUP7}  
997 Pathogen[ P03346] interacts with 1 human partners:{Q6NUP7}  
998 Pathogen[ Q85601] interacts with 1 human partners:{Q6NUP7}  
999 Pathogen[ P14079] interacts with 1 human partners:{Q6NUP7}  
1000 Pathogen[ P03383] interacts with 1 human partners:{Q6NUP7}  
1001 Pathogen[ P03410] interacts with 1 human partners:{Q6NUP7}  
1002 Pathogen[ P14075] interacts with 1 human partners:{Q6NUP7}  
1003 Pathogen[ P0C206] interacts with 1 human partners:{Q6NUP7}  
1004 Pathogen[ P03363] interacts with 1 human partners:{Q6NUP7}  
1005 [Cluster 92]GO:0048476+ cellular\_component [name] Holliday junction resolvase  
complex [def] "A protein complex that mediates the conversion of a Holliday junction into  
two separate duplex DNA molecules\_ the complex includes a single- or multisubunit  
helicase that catalyzes the extension of heteroduplex DNA by branch migration and a  
nuclease that resolves the junction by nucleolytic cleavage." [PMID  
1006 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8IY92}  
1007 Pathogen[ P0C214] interacts with 1 human partners:{Q8IY92}  
1008 Pathogen[ P03346] interacts with 1 human partners:{Q8IY92}  
1009 Pathogen[ Q85601] interacts with 1 human partners:{Q8IY92}  
1010 Pathogen[ P14079] interacts with 1 human partners:{Q8IY92}

1011 Pathogen[ P03383] interacts with 1 human partners:{Q8IY92}

1012 Pathogen[ P03410] interacts with 1 human partners:{Q8IY92}

1013 Pathogen[ P14075] interacts with 1 human partners:{Q8IY92}

1014 Pathogen[ P0C206] interacts with 1 human partners:{Q8IY92}

1015 Pathogen[ P03363] interacts with 1 human partners:{Q8IY92}

1016 [Cluster 93]GO:0005686+C cellular\_component [name] U2 snRNP [def] "A ribonucleoprotein complex that contains small nuclear RNA U2." [GOC

1017 Pathogen[ Q2Q067] interacts with 3 human partners:{P08579;P09661;Q7RTV0}

1018 Pathogen[ P0C214] interacts with 3 human partners:{P08579;Q7RTV0;P09661}

1019 Pathogen[ P03346] interacts with 3 human partners:{Q7RTV0;P08579;P09661}

1020 Pathogen[ Q85601] interacts with 2 human partners:{Q7RTV0;P09661}

1021 Pathogen[ P14079] interacts with 2 human partners:{Q7RTV0;P09661}

1022 Pathogen[ P03383] interacts with 2 human partners:{P09661;Q7RTV0}

1023 Pathogen[ P03410] interacts with 3 human partners:{P08579;P09661;Q7RTV0}

1024 Pathogen[ P14075] interacts with 2 human partners:{P09661;Q7RTV0}

1025 Pathogen[ P0C206] interacts with 2 human partners:{Q7RTV0;P09661}

1026 Pathogen[ P03363] interacts with 3 human partners:{P08579;Q7RTV0;P09661}

1027 [Cluster 94]GO:0005674+C cellular\_component [name] transcription factor TFIIF complex [def] "A general transcription initiation factor which in humans consists of a heterodimer of an alpha and a beta subunit. Helps recruit RNA polymerase II to the initiation complex and promotes translation elongation." [GOC

1028 Pathogen[ Q2Q067] interacts with 2 human partners:{P13984;P35269}

1029 Pathogen[ P0C214] interacts with 2 human partners:{P35269;P13984}

1030 Pathogen[ P03346] interacts with 2 human partners:{P13984;P35269}

1031 Pathogen[ Q85601] interacts with 2 human partners:{P13984;P35269}

1032 Pathogen[ P14079] interacts with 2 human partners:{P35269;P13984}

1033 Pathogen[ P03383] interacts with 2 human partners:{P35269;P13984}

1034 Pathogen[ P03410] interacts with 2 human partners:{P35269;P13984}

1035 Pathogen[ P14075] interacts with 2 human partners:{P13984;P35269}

1036 Pathogen[ P0C206] interacts with 2 human partners:{P13984;P35269}

1037 Pathogen[ P03363] interacts with 2 human partners:{P13984;P35269}

1038 [Cluster 95]GO:0033186+C cellular\_component [name] CAF-1 complex [def] "A conserved heterotrimeric protein complex that promotes histone H3 and H4 deposition onto newly synthesized DNA during replication or DNA repair\_ specifically facilitates replication-dependent nucleosome assembly with the major histone H3 (H3.1). In many species the CAF-1 subunits are designated p150, p60, and p48." [PMID

1039 Pathogen[ Q2Q067] interacts with 3 human partners:{Q13111;Q09028;Q13112}

1040 Pathogen[ P0C214] interacts with 3 human partners:{Q13112;Q13111;Q09028}

1041 Pathogen[ P03346] interacts with 3 human partners:{Q09028;Q13111;Q13112}

1042 Pathogen[ Q85601] interacts with 3 human partners:{Q13112;Q09028;Q13111}

1043 Pathogen[ P14079] interacts with 3 human partners:{Q13112;Q13111;Q09028}

1044 Pathogen[ P03383] interacts with 3 human partners:{Q09028;Q13111;Q13112}

1045 Pathogen[ P03410] interacts with 3 human partners:{Q09028;Q13111;Q13112}

1046 Pathogen[ P14075] interacts with 3 human partners:{Q13111;Q09028;Q13112}

1047 Pathogen[ P0C206] interacts with 3 human partners:{Q13112;Q13111;Q09028}

1048 Pathogen[ P03363] interacts with 3 human partners:{Q13112;Q09028;Q13111}

1049 [Cluster 96]GO:0015935+C cellular\_component [name] small ribosomal subunit [def] "The smaller of the two subunits of a ribosome." [GOC

1050 Pathogen[ Q2Q067] interacts with 24 human partners:{P51398;P62701;P82932;P62273;P15880;P46782;P62861;Q9Y399;P62249;O15235;P60866;P08865;P62269;P62857;P62847;P23396;P62266;P63220;P62841;P62854;P62753;P62851;P46781;P62979}

1051 Pathogen[ P0C214] interacts with 24 human partners:{P62861;Q9Y399;P15880;P62249;P62854;P62273;P23396;O15235;P62847;P62701;P63220;P08865;P62266;P51398;P62753;P62269;P46781;P62841;P82932;P60866;P62857;P62979;P62851;P46782}

1052 Pathogen[ P03346] interacts with 24 human partners:{Q9Y399;P62249;P62861;P62857;P62266;P62273;P60866;P46782;P51398;P62854;P08865;O15235;P62269;P46781;P15880;P62979;P23396;P62701;P62847;P62851;P62841;P82932;P62753;P63220}

1053 Pathogen[ Q85601] interacts with 24 human partners:{P62857;P62854;P23396;P62273;P62753;P82932;P15880;P62701;P62861;P51398;O15235;P62249;P62269;P62979;P62847;P63220;P46782;P62851;P62841;P08865;Q9Y399;P46781;P60866;P62266}

1054 Pathogen[ P14079] interacts with 22 human partners:{P23396;P46781;P62847;P62753;P62273;P62979;P62841;P62266;P46782;P60866;P62854;P63220;O15235;P15880;P08865;P62249;P51398;P62269;P62701;P62851;P62857;P62861}

1055 Pathogen[ P03383] interacts with 24 human partners:{P51398;P62266;P62854;P62249;P62753;P62273;P08865;P62851;P46782;P62269;P63220;P62857;P82932;P60866;P62979;P46781;P62841;P62701;P62847;O15235;Q9Y399;P62861;P15880;P23396}

1056 Pathogen[ P03410] interacts with 23 human partners:{P62861;Q9Y399;P15880;P62841;O15235;P46781;P62269;P63220;P62847;P23396;P62266;P62249;P62979;P62701;P08865;P62854;P62273;P46782;P62857;P62851;P62753;P60866;P51398}

1057 Pathogen[ P14075] interacts with 24 human

- partners:{P62857;P46781;P63220;P62851;P08865;P62249;P51398;O15235;P62979;Q9Y399;P62753;P46782;P62861;P62269;P62847;P62273;P23396;P15880;P62841;P62266;P82932;P62701;P62854;P60866}
- 1058 Pathogen[ P0C206] interacts with 24 human  
partners:{Q9Y399;P62854;P08865;P46781;P62266;P62273;P62857;P62851;P46782;P51398;P62861;P23396;P62701;P62979;P60866;P62841;P82932;P62269;P62753;P63220;P15880;O15235;P62847;P62249}
- 1059 Pathogen[ P03363] interacts with 23 human  
partners:{P23396;P08865;P62847;P62249;P62753;P62273;P15880;P62861;P62841;P46782;P46781;P63220;P62851;P62266;P60866;P62857;P82932;P62854;Q9Y399;O15235;P51398;P62701;P62269}
- 1060 [Cluster 97]GO:0005815+C cellular\_component [name] microtubule organizing center [def] "A cytoplasmic structure that can catalyze gamma-tubulin-dependent microtubule nucleation and that can anchor microtubules by interacting with their minus ends, plus ends or sides." [ISBN
- 1061 Pathogen[ Q2Q067] interacts with 149 human  
partners:{Q12798;Q5SZL2;Q9BTV5;O75161;Q96GE4;Q6P2H3;Q14008;Q9Y2Y0;Q9H4X1;Q7Z4H7;Q96RT8;Q70YC5;Q9P209;O95684;Q7Z460;O43189;Q96ST8;Q9H1H9;O43805;O94927;Q5VYK3;Q9UJW0;O75935;Q7Z7A1;Q9NZJ0;A8MVW5;Q8NHV4;P05062;Q6P1N0;Q01201;Q5FBB7;Q86XR8;Q9BZV1;Q96EY5;Q9UJT9;Q9HC77;P06748;O14757;Q9UNH5;Q9NVX0;Q6P582;Q9NXR1;Q13432;Q96SN8;Q96K30;Q92547;O95359;Q1MSJ5;A6NKF1;Q5BJF6;Q2M2Z5;Q5JTW2;P14635;Q99871;Q68DK2;Q96IF1;Q76KD6;P26081;Q8WUM4;P17987;Q9C0D2;Q9BYV8;Q8NHQ1;Q9NXB0;Q13561;Q6IN85;O76095;Q96RT7;Q12834;Q9UBK9;Q5MIZ7;Q9BQ89;Q9BSJ2;Q9HD42;P50991;Q9BT25;P42025;Q9H6D7;Q9C0F1;Q96MT8;O15078;Q12873;Q5VU43;Q13045;Q5TB80;Q1W6H9;A6NK89;Q99996;Q86VQ0;O00139;Q53EZ4;Q96NB1;Q8N8E3;Q08AG7;O94986;Q86X95;O75122;Q9NRI5;Q15051;P23258;Q9H816;Q14839;Q6UVJ0;Q9Y6D9;Q6QNY1;O75410;Q9NR09;Q96IK1;Q8TC76;Q6DKK2;Q9NS23;P60953;O75154;O15182;Q6NZ67;Q9NY27;P18848;Q9UGJ1;O95613;Q96QY1;Q3SYG4;P24941;Q8N4C6;Q99689;Q9H7T9;Q9UPT5;Q92597;Q15834;Q96CS2;Q13042;Q15691;P60510;Q8TAP9;Q8IW35;Q96ED9;P05783;Q15154;Q96EA4;Q68CZ6;Q14194;Q9BRK4;Q9Y224;Q5VT06;Q7Z6E9;Q9ULD2;Q15650;Q9BV73;Q96CW5;Q8TAP6}
- 1062 Pathogen[ P0C214] interacts with 146 human  
partners:{Q5SZL2;O15078;Q5MIZ7;O94927;Q8TAP9;O75935;O75161;Q9H4X1;O43805;P62081;Q9BSJ2;Q6NZ67;Q15154;Q14008;P05783;Q1MSJ5;O94986;Q9H816;O95684;Q9NRI5;Q9UJW0;Q9NS23;Q15051;Q9BRK4;Q96ED9;P48643;Q9UPT5;Q6DKK2;Q7Z4H7;Q12873;P06748;Q9P209;Q8NHQ1;Q9NY27;Q96EA4;Q96SN8;Q9HD42;A8MVW5;Q8NHV4;Q7Z7A1;Q5VYK3;Q9BYV8;P23258;Q9HC77;Q5JTW2;P60953;Q96MT8;P14635;O00139;Q96CW5;Q14194;Q15691;Q96RT7;Q9UGJ1;P05062;Q9BZV1;O95359;P60510;Q96CS2;Q9C0F1;Q96ST8;Q8IW35;Q76KD6;P18848;O75122;Q92597;Q15834;Q13045;Q96EY5;Q12798;Q01201;Q9Y224;Q5VU43;Q9NXB0;Q7Z6E9;Q8IYX8;Q86XR8;O43189;Q9BT25;Q12834;Q9NZJ0;Q53EZ4;P24941;Q99689;Q3SYG4;Q9ULD2;Q6P2H3;Q96K30;P30305;Q8TAP6;Q96RT8;Q8TC76;Q9UNH5;Q15650;Q99871;Q1W6H9;Q6IN85;Q2M2Z5;Q9H6D7;O75410;P42025;Q7Z460;Q9BV73;A6NKF1;Q5FBB7;Q9BTV5;Q9Y2Y0;Q9NR09;Q68CZ6;Q5BJF6;P17987;Q5VT06;Q68DK2;Q6P1N0;Q92547;O95613;P50991;Q99996;Q8N4C6;Q6QNY1;O14757;Q08AG7;Q9NXR1;Q9UBK9;Q9NVX0;Q6P582;Q9Y5Y2;Q13561;Q5TB80;Q9UJT9;Q9C0D2;Q9H7T9;A6NK89;Q86X95;Q6UVJ0;Q9BQ89;Q70YC5;Q9Y6D9;Q96NB1;Q14839;Q8N8E3;O75154;Q13432;P36404;Q13042;Q8WUM4}
- 1063 Pathogen[ P03346] interacts with 174 human  
partners:{Q9NZJ0;Q5SZL2;Q6P582;Q9Y6D9;Q9NRI5;Q5T6F0;Q7Z7A1;Q9BT25;Q5FBB7;Q9H6D7;Q9H4X1;Q86VQ0;Q9UJW0;Q9UPT5;Q6NZ67;Q01201;Q15834;P05783;Q86XR8;Q8N8E3;Q5JTW2;O95684;P06748;Q2M2Z5;P23258;Q99871;Q96RT8;Q7Z4H7;Q9UJT9;Q5MIZ7;Q9HD42;Q8WYJ6;O75410;Q15154;O75935;O00139;Q15691;Q99689;A8MVW5;Q8NHV4;P24941;Q9NY27;Q68CZ1;Q9Y6D5;O95359;Q9BZV1;Q9HC77;O14757;Q9NXR1;Q9P209;Q9H1H9;Q96IF1;P60953;Q96IK1;Q96CW5;Q70YC5;Q8IYX8;Q9BQ89;Q9C0F1;O43805;Q12834;Q9Y664;P30305;Q15051;Q6P2H3;Q96ST8;Q13432;Q9BRK4;Q76KD6;Q8TAM2;Q6P1N0;Q5TB80;A6NK89;Q9C0D2;O75161;P18848;Q9NXB0;Q9NVX0;Q9Y224;Q8N960;Q96EA4;A6NKF1;Q8IW35;Q92597;P14635;O43189;Q13042;O94986;Q6QNY1;Q7Z6E9;Q96SN8;P50991;Q6ZP65;Q14008;Q5VT06;Q9UKA4;Q3SYG4;O60447;Q68CZ6;Q8TC76;Q9UGJ1;Q5VYK3;P62081;Q96K30;P36404;Q9BTV5;Q53EZ4;Q8TAP6;Q9NVR7;P42025;Q9ULD2;Q5BJF6;Q9Y5Y2;O75122;Q68DK2;Q9BYV8;Q8TAP9;Q92547;Q9Y2I6;P36405;Q96ED9;Q99996;Q96PY6;Q96CS2;Q8NHQ1;Q9NR09;Q6IN85;Q12798;Q12873;Q96KG9;Q9BSJ2;Q9Y6F1;Q08AG7;Q7Z460;P05062;Q9Y2Y0;O95613;O15182;O15078;Q96GE4;Q96RT7;Q13045;O94927;O75154;Q8N4C6;O76095;Q86X95;Q5VU43;Q14194;Q9H816;Q96EY5;Q1MSJ5;Q9UBK9;Q8WUM4;Q9NS23;O14965;Q1W6H9;Q6UVJ0;Q76N32;Q15650;P60510;Q92834;Q6DKK2;Q6IQ23;Q9UNH5;Q96NB1;Q14839;Q96M02;Q9UBP0;Q9H7T9;Q96MT8;Q13561;P17987;Q9BV73}
- 1064 Pathogen[ Q85601] interacts with 169 human  
partners:{Q53EZ4;Q8NHQ1;Q5VYK3;Q5SZL2;P61163;Q7Z6E9;Q96M02;O75161;Q9H7T9;Q9H4X1;Q9UJW0;Q9UPT5;P62081;O75154;Q6UVJ0;Q15834;O94986;Q15154;P36405;Q8N8E3;O95684;Q14008;Q6IN85;Q14194;Q92547;Q2M2Z5;Q9H6D7;Q9BT25;O15182;Q99871;Q96RT8;Q5MIZ7;Q9UBP0;Q96PY6;Q12798;Q96IK1;Q6NZ67;Q96SN8;O75935;Q7Z4H7;Q9NVX0;A8MVW5;P18848;Q8NHV4;Q9NY27;Q9Y2Y0;Q9HC77;Q9NZJ0;Q9P209;Q13045;Q9H1H9;Q6IQ23;O15078;Q92834;Q5BJF6;Q9Y2I6;Q9NS23;Q6ZP65;P17987;Q96CW5;Q96EA4;P05062;Q9BZV1;Q6P2H3;Q9BQ89;A6NKF1;Q96FI4;Q12834;Q5JTW2;P23258;Q8TAP9;O14757;Q96ST8;Q76KD6;O75122;Q9UNH5;P30305;O14965;Q86XR8;Q9BSJ2;Q9Y6F1;Q9NXB0;Q15650;P50991;Q76N32;P05783;Q9UGJ1;P14635;Q13042;Q9BV73;Q12873;Q5VT06;Q9C0F1;Q9BRK4;Q6DKK2;Q15691;O60447;Q15051;Q8TC76;Q96MT8;Q9Y6D9;Q9UJT9;Q1MSJ5;Q86VQ0;Q9BYV8;Q7Z7A1;A6NK89;Q5TB80;Q9BVA0;Q01201;Q8IW35;P06748;Q99689;O94927;Q68DK2;Q3SYG4;Q96IF1;Q8TAP6;O76095;Q99996;Q8WYJ6;Q5VU43;Q96CS2;P60953;P60510;Q9BTV5;Q9NRI5;O43189;Q9NR09;Q8WUM4;Q9Y5Y2;Q13432;Q7Z460;Q96KG9;Q08AG7;Q92597;O95613;Q8N4C6;P48643;Q9NXR1;Q96K30;Q6P582;Q9H816;Q9UBK9;Q96EY5;Q96ED9;Q6P1N0;Q9C0D2;Q9GZM8;Q6QNY1;P24941;P42025;Q9HD42;Q1W6H9;O00139;O75410;Q9Y224;Q9ULD2;Q68CZ6;Q5FBB7;Q86X95;P51955;O43805;Q96NB1;Q14839;O95359;Q8IYX8;Q96RT7;Q13561}
- 1065 Pathogen[ P14079] interacts with 173 human

- partners: {Q15691; Q9UKA4; Q2M2Z5; O75161; Q9H7T9; P48643; Q96K30; Q96EY5; Q9Y664; Q9BTV5; Q6UVJ0; Q68DK2; Q99996; Q9NS23; Q6IQ23; Q7Z460; O95684; Q9P209; O95359; Q96GE4; A6NK89; O94986; O76095; Q99871; Q96ED9; Q9UGJ1; Q68CZ1; P50991; Q9Y6D5; Q9NVX0; Q5JTW2; Q92834; Q9Y2Y0; Q70YC5; Q1MSJ5; Q96ST8; Q8N8E3; Q9HD42; Q9NRI5; Q6P582; Q6P1N0; Q9BV73; Q9NY27; A8MVW5; Q1W6H9; Q13045; P50990; Q9BZV1; Q9NVR7; Q8TAP6; Q9UJW0; Q92597; Q76KD6; Q9UPT5; Q76N32; Q5VYK3; Q5FBB7; Q12873; Q01201; Q8N960; Q9NR09; Q5SZL2; Q08AG7; Q96M02; Q96IK1; O43189; P36405; Q8WYJ6; Q5BJF6; Q96T89; Q5MIZ7; P14635; P51955; Q99689; Q8NHV4; Q8N4C6; Q9BQ89; Q96IF1; Q5VT06; Q7Z4L9; Q96WU4; Q766E9; P17987; Q12798; Q13042; O00139; Q96EA4; Q8TAM2; P23258; Q9H1H9; Q9UBK9; Q96RT7; Q9H6D7; Q9Y5Y2; Q96FI4; A6NKF1; Q15834; Q13561; Q8TCU4; Q9P2L0; Q14194; P06748; Q9BSJ2; Q6ZP65; Q8NEM0; Q9C0F1; Q6DKK2; P05783; P61163; Q9GZM8; Q5TB80; Q9ULD2; P62081; Q8TAP9; Q6IN85; Q13432; Q14839; Q92547; O95613; Q15051; O75410; Q8TC76; P60510; O15078; P42025; Q7Z4H7; Q9NZJ0; O75154; Q9BT25; O15182; Q6P2H3; P30305; Q8NHQ1; Q6NZ67; Q68CZ6; Q15154; Q9UJT9; Q3SYG4; Q15650; Q86XR8; Q9NXR1; Q5T6F0; Q9Y2I6; Q86VQ0; Q9BVA0; O75122; O14965; Q9BRK4; Q8IYX8; Q6QNY1; O75935; Q86X95; Q9C0D2; Q9Y224; Q9HC77; Q8IW35; Q9H816; Q96SN8; Q9NXB0; Q9BYV8; Q9Y6F1; Q9UNH5; O43805; Q53EZ4; Q7Z7A1; O94927; Q5VU43; Q96CW5; Q96NB1; Q96KG9; Q14008; Q8WVJ2; Q96CS2}
- 1066 Pathogen[ P03383] interacts with 126 human partners: {Q7Z7A1; Q9BRK4; Q9Y2Y0; Q8TC76; Q86XR8; O14757; Q9H4X1; Q7Z460; Q14839; Q6UVJ0; Q9UJW0; Q9BSJ2; P06748; Q1MSJ5; Q68DK2; Q15051; O94986; Q14008; Q9NZJ0; Q15691; O95684; Q9NVX0; Q15650; Q5FBB7; Q9NRI5; Q5VYK3; P42025; Q6NZ67; Q96SN8; O75410; Q7Z4H7; Q99689; Q96CW5; P60953; A8MVW5; Q8NHV4; Q9BV73; Q9BZV1; Q9HC77; Q12798; O43189; Q96K30; P05783; Q92597; Q96EA4; Q13042; Q13432; P14635; Q5VT06; Q96MT8; Q08AG7; Q9BQ89; Q9C0F1; A6NKF1; Q9H1H9; Q5VU43; Q12834; Q6P1N0; Q76KD6; Q99871; Q96NB1; Q5TB80; Q12873; Q96CS2; Q2M2Z5; Q9H816; O94927; P62081; Q9NXB0; Q86VQ0; O15078; P24941; Q9UNH5; Q6DKK2; Q68CZ6; Q15154; Q01201; Q70YC5; Q9BYV8; Q9BT25; O75935; Q5BJF6; Q96ED9; Q6IN85; Q9HD42; Q5MIZ7; O14965; Q3SYG4; Q96ST8; Q6P582; Q8TAP6; Q9NY27; Q96PY6; Q9P209; O75161; Q9NR09; Q8WUM4; Q9H6D7; Q99996; O95613; Q13561; Q13045; Q9H7T9; P18848; Q8N4C6; O76095; Q92547; Q86X95; Q6P2H3; Q8N8E3; Q9UPT5; Q9UBK9; Q9C0D2; Q15834; Q96EY5; A6NK89; Q53EZ4; O75154; P60510; Q9Y224; Q8NHQ1; Q8TAP9; Q1W6H9; Q9Y6D9; Q6QNY1; Q8IW35}
- 1067 Pathogen[ P03410] interacts with 176 human partners: {Q15650; Q96M02; O95684; Q7Z460; P17987; Q8WVJ2; O75154; Q86VQ0; Q8N960; Q9H4X1; Q96FI4; Q12873; O95359; Q9UPT5; P48643; Q96NB1; Q9H6D7; Q6QNY1; Q9H816; Q5MIZ7; Q9UKA4; Q8TC76; Q13561; Q9Y2I6; O00139; Q9NXR1; Q9HC77; Q9H7T9; Q99996; Q9GZM8; Q15154; P60510; Q96K30; Q9H1H9; Q3SYG4; Q7Z7A1; P18848; Q6UVJ0; Q9Y224; Q7Z4L9; Q8TAM2; Q14008; Q96SN8; P36405; O15182; Q5VYK3; Q9NS23; Q9C0D2; O75161; Q8TCU4; Q12798; Q9P209; Q9UJW0; P06748; Q9UBK9; Q6DKK2; Q9Y5Y2; Q9UNH5; P05062; Q13045; Q8TAP9; Q8IYX8; Q9BYV8; Q68CZ6; P61163; Q01201; Q96CS2; Q9Y6F1; Q9BTV5; Q9BZV1; O14965; Q96EA4; Q96IF1; O43805; Q9NR09; Q8NHV4; O94986; Q8TAP6; P14635; Q6P2H3; Q96KG9; Q15691; Q13042; Q9NVR7; P50990; Q5SZL2; Q96GE4; P62081; Q96ED9; P24941; Q9HD42; Q9ULD2; Q5VU43; Q9NVX0; A6NK89; O15078; Q6IN85; O60447; Q92834; Q8WYJ6; Q15834; Q96ST8; Q8N4C6; A8MVW5; Q9Y6D5; O14757; O75410; Q5T6F0; Q5BJF6; O75935; Q53EZ4; Q9BQ89; Q9BSJ2; Q86X95; O94927; Q15051; Q12834; Q92547; Q8IW35; Q5FBB7; P60953; P42025; Q9NRI5; Q96RT8; O43189; P23258; Q2M2Z5; Q5TB80; Q08AG7; Q1MSJ5; Q9NXB0; Q92597; Q6NZ67; Q6ZP65; Q96EY5; O76095; Q14194; Q96CW5; A6NKF1; Q99871; Q76N32; P30305; Q9UJT9; Q96RT7; Q9P2L0; Q9Y664; Q68CZ1; O95613; Q13432; Q9C0F1; Q9Y2Y0; Q6P582; Q1W6H9; Q14839; Q8WUM4; Q68DK2; O75122; P05783; Q9BV73; Q76KD6; Q9BT25; Q70YC5; Q6P1N0; Q7Z4H7; Q9UGJ1; Q5JTW2; Q6IQ23; Q9NY27; Q9BVA0; Q8N8E3; P50991; Q8NEM0; Q5VT06; Q9NZJ0; Q96IK1; Q99689}
- 1068 Pathogen[ P14075] interacts with 129 human partners: {P60953; Q96MT8; Q99871; Q3SYG4; Q9H4X1; Q9BYV8; Q96EY5; Q86X95; Q6NZ67; Q13042; Q9H1H9; P24941; Q1W6H9; P05783; O95684; Q6P582; Q9Y6D9; Q15051; Q5VT06; Q5VU43; Q7Z4H7; O75410; O76095; Q9Y224; Q9H7T9; A6NK89; P14635; Q5MIZ7; Q01201; Q08AG7; Q8WUM4; A8MVW5; Q8NHV4; Q7Z460; P60510; Q14839; Q13561; Q9Y2Y0; Q68CZ6; Q9HC77; Q86VQ0; Q96SN8; Q6UVJ0; Q12798; P62081; Q8NHQ1; Q96ST8; Q9BT25; Q96GE4; Q9NRI5; Q76KD6; Q68DK2; Q9NXB0; Q9C0F1; Q99996; Q9NY27; O15078; Q96EA4; O00139; Q5BJF6; Q6IN85; O75935; O75161; Q86XR8; Q15650; Q9UBK9; O14965; Q96NB1; Q96K30; Q15834; Q6QNY1; Q15691; O43189; Q9BV73; Q5TB80; Q6P2H3; Q9H816; Q8TAP6; Q96CS2; P06748; Q5FBB7; P18848; O94986; Q15154; A6NKF1; Q9BQ89; Q53EZ4; Q9BRK4; Q9NVX0; Q9NR09; Q96PY6; Q9HD42; O94927; Q92597; O75154; O95613; Q9P209; Q9BZV1; Q14008; Q8N4C6; Q8TAP9; Q9NZJ0; Q9UJW0; Q1MSJ5; Q8N8E3; Q13432; Q9BSJ2; Q96IK1; Q92547; Q12873; Q9UNH5; Q9H6D7; Q9C0D2; Q6P1N0; Q7Z7A1; P42025; Q70YC5; O14757; Q12834; Q96CW5; Q2M2Z5; Q13045; Q6DKK2; Q8TC76; Q96ED9; Q8IW35; Q5VYK3; Q9UPT5; Q99689}
- 1069 Pathogen[ P0C206] interacts with 175 human partners: {Q5JTW2; Q92597; Q9Y224; Q9UJT9; O15182; Q68DK2; P48643; Q86XR8; P05062; Q96M02; Q8N8E3; O95359; O94986; Q9BVA0; Q5SZL2; Q96SN8; Q9HC77; Q9H7T9; Q14008; Q13432; Q9H4X1; Q96ST8; Q9UBP0; Q5BJF6; O95684; P62081; Q3SYG4; Q9Y6D9; Q8TAM2; Q6IN85; O75161; Q96RT7; P51955; O75154; Q9C0D2; Q6P2H3; Q96IF1; Q8TCU4; Q9BTV5; Q96CW5; Q9BQ89; Q15691; Q13045; Q9BT25; Q96K30; Q86VQ0; Q96PY6; Q6QNY1; Q9NVR7; Q6UVJ0; Q9Y5Y2; Q6ZP65; P50991; P30305; Q9H816; Q99996; P17987; Q01201; Q9H1H9; Q96KG9; Q9GZM8; Q9UGJ1; Q9Y6F1; Q96ED9; Q9NVX0; P61163; Q14839; Q99689; O75122; Q8TAP6; O75410; Q6DKK2; O60447; A8MVW5; A6NKF1; Q8WYJ6; Q2M2Z5; Q86X95; Q9UNH5; Q6P1N0; Q15650; Q9UJW0; Q9NR09; O95613; Q9BZV1; Q9Y6D5; Q9UPT5; Q8IYX8; O15078; Q9NRI5; Q15834; P05783; Q96CS2; Q8IW35; Q7Z4H7; Q5FBB7; Q9ULD2; Q5VT06; A6NK89; Q9BYV8; O94927; Q5VU43; Q9NY27; Q8TC76; Q9BV73; Q8NHV4; Q96FI4; P60953; P23258; O00139; Q9NZJ0; Q13561; Q76N32; P36405; Q5VYK3; Q8WUM4; Q14194; Q6P582; Q7Z7A1; Q9H6D7; Q99871; Q5T6F0; Q9NXR1; Q96EA4; Q9HD42; Q5MIZ7; Q8TAP9; Q9UBK9; Q70YC5; Q9P209; Q12798; P06748; P14635; P60510; Q1MSJ5; Q9Y2Y0; O14965; O43805; Q8N4C6; Q96MT8; Q7Z460; Q9C0F1; Q7Z6E9; Q9NS23; O75935; Q15154; Q92547; Q9NXB0; Q13042; Q8NHQ1; Q96IK1; Q96NB1; Q9BVA0; O43189; P42025; Q15051; Q6IQ23; P24941; Q08AG7; Q9BSJ2; Q68CZ6; P18848; Q92834; Q5TB80; Q8N960; Q12834; Q6NZ67; Q96EY5; Q9UKA4; Q12873; O76095; Q96GE4; Q9Y2I6; Q1W6H9; Q76KD6}
- 1070 Pathogen[ P03363] interacts with 167 human partners: {Q86X95; Q9BQ89; Q5BJF6; Q92547; P05783; O75410; Q9H816; Q96EA4; Q5SZL2; A6NKF1; Q9Y2I6; P18848; Q15834; Q15051; Q96IK1; Q13042; O75161; Q7Z7A1; Q9Y6D9; Q9HC77; Q9UNH5; Q96ED9; Q9H4X1; Q86VQ0; Q76N32; Q8TAM2; Q9BYV8; Q5VT06; Q9BRK4; Q14194; Q99996; Q96MT8; O15078; Q9UJT9; Q8NHV4; P62081; O43805; Q1MSJ5; Q13561; Q15691; O95684; Q6P582; Q9UJW0; Q7Z6E9; Q9H7T9; Q13045; Q92597; Q

8NHQ1;O60447;O95613;O94986;Q96FI4;Q9H6D7;Q96K30;Q9BT25;Q5VU43;Q8TAP6;Q96M02;P24941;Q14839;Q9UBK9;Q68DK2;Q9P209;Q96GE4;P06748;Q8WYJ6;O43189;Q5FBB7;Q96IF1;Q6ZP65;P50991;Q5JTW2;P61163;A8MVW5;Q5T6F0;Q53EZ4;Q68CZ6;Q12798;O94927;Q6DKK2;Q3SYG4;Q8WUM4;Q9NR09;Q13432;Q96RT8;Q9NVX0;Q9BZV1;Q96KG9;Q96ST8;O75935;Q08AG7;P17987;Q7Z460;Q6QNY1;Q6P2H3;Q6IN85;Q9NVR7;P60510;Q96NB1;Q96CS2;P42025;Q99871;Q96EY5;O76095;O75154;Q9NS23;Q01201;Q9NY27;Q8IW35;O15182;Q96RT7;Q76KD6;Q8TC76;A6NK89;Q9NR15;Q70YC5;Q9UGJ1;Q9C0F1;Q8IYX8;Q92834;Q9Y5Y2;Q12873;Q95359;Q6P1N0;Q86XR8;Q9Y224;Q12834;Q14008;Q9Y664;Q9Y2Y0;Q9H1H9;Q8N4C6;Q8N8E3;Q1W6H9;Q9NXR1;Q9NXB0;Q9C0D2;P23258;O00139;Q6NZ67;Q9NZJ0;Q9ULD2;Q7Z4H7;Q5MIZ7;P60953;P48643;Q5T890;Q15154;Q5TB80;Q6IQ23;Q2M2Z5;Q9BSJ2;Q9BTV5;Q9BV73;Q8NEM0;Q9Y6F1;Q5VYK3;Q15650;Q9HD42;Q9UPT5;Q8TAP9;Q6UVJ0;Q99689;Q96CW5;Q96SN8;O14757;Q8N960}

1071 [Cluster 98]GO:0000444+C cellular\_component [name] MIS12/MIND type complex [def] "A multiprotein kinetochore subcomplex that binds to centromeric chromatin and forms part of the inner kinetochore. It helps to recruit outer kinetochore subunits that will bind to microtubules. In humans, it consists of MIS12, DSN1, NSL1 and PMF1." [GOC]

1072 Pathogen[ Q2Q067] interacts with 4 human partners:{Q6P1K2;Q9H410;Q96IY1;Q9H081}

1073 Pathogen[ P0C214] interacts with 4 human partners:{Q9H081;Q6P1K2;Q9H410;Q96IY1}

1074 Pathogen[ P03346] interacts with 4 human partners:{Q96IY1;Q9H081;Q9H410;Q6P1K2}

1075 Pathogen[ Q85601] interacts with 4 human partners:{Q9H081;Q9H410;Q96IY1;Q6P1K2}

1076 Pathogen[ P14079] interacts with 4 human partners:{Q96IY1;Q9H410;Q6P1K2;Q9H081}

1077 Pathogen[ P03383] interacts with 4 human partners:{Q9H410;Q9H081;Q96IY1;Q6P1K2}

1078 Pathogen[ P03410] interacts with 4 human partners:{Q9H410;Q96IY1;Q6P1K2;Q9H081}

1079 Pathogen[ P14075] interacts with 4 human partners:{Q9H081;Q96IY1;Q9H410;Q6P1K2}

1080 Pathogen[ P0C206] interacts with 4 human partners:{Q9H081;Q9H410;Q6P1K2;Q96IY1}

1081 Pathogen[ P03363] interacts with 4 human partners:{Q96IY1;Q6P1K2;Q9H081;Q9H410}

1082 [Cluster 99]GO:0071565+C cellular\_component [name] nBAF complex [def] "A SWI/SNF-type complex that is found in post-mitotic neurons, and in human contains actin and proteins encoded by the ARID1A/BAF250A or ARID1B/BAF250B, SMARCD1/BAF60A, SMARCD3/BAF60C, SMARCA2/BRM/BAF190B, SMARCA4/BRG1/BAF190A, SMARCB1/BAF47, SMARCC1/BAF155, SMARCE1/BAF57, SMARCC2/BAF170, DPF1/BAF45B, DPF3/BAF45C, ACTL6B/BAF53B genes. The nBAF complex along with CREST plays a role regulating the activity of genes essential for dendrite growth." [GOC]

1083 Pathogen[ Q2Q067] interacts with 12 human partners:{Q92922;P51531;Q92782;Q969G3;O14497;P51532;Q96GM5;O94805;Q12824;Q8TAQ2;Q9HBD4;Q6STE5}

1084 Pathogen[ P0C214] interacts with 12 human partners:{Q12824;O14497;Q9HBD4;Q6STE5;Q8TAQ2;Q92922;Q969G3;P51531;O94805;Q92782;Q96GM5;P51532}

1085 Pathogen[ P03346] interacts with 13 human partners:{Q9HBD4;Q96GM5;P51532;Q12824;Q6STE5;O14497;Q92784;O94805;Q969G3;Q92922;P51531;Q8TAQ2;Q92782}

1086 Pathogen[ Q85601] interacts with 12 human partners:{Q6STE5;O14497;Q92782;P51531;Q96GM5;P51532;Q969G3;Q9HBD4;O94805;Q92922;Q12824;Q8TAQ2}

1087 Pathogen[ P14079] interacts with 10 human partners:{Q6STE5;Q92782;Q92922;P51532;P51531;O14497;Q8TAQ2;O94805;Q96GM5;Q12824}

1088 Pathogen[ P03383] interacts with 12 human partners:{O14497;Q9HBD4;Q12824;O94805;Q6STE5;Q92782;Q96GM5;Q969G3;P51531;Q8TAQ2;P51532;Q92922}

1089 Pathogen[ P03410] interacts with 12 human partners:{Q96GM5;O14497;Q969G3;Q92782;O94805;Q92922;P51532;P51531;Q8TAQ2;Q6STE5;Q12824;Q9HBD4}

1090 Pathogen[ P14075] interacts with 11 human partners:{Q9HBD4;Q96GM5;Q92782;P51532;Q92922;O14497;P51531;Q8TAQ2;Q12824;O94805;Q6STE5}

1091 Pathogen[ P0C206] interacts with 13 human partners:{P51532;P51531;Q6STE5;Q92922;Q12824;Q8TAQ2;Q92782;O14497;Q92784;Q96GM5;Q969G3;Q9HBD4;O94805}

1092 Pathogen[ P03363] interacts with 12 human partners:{Q6STE5;Q8TAQ2;P51532;O14497;Q969G3;Q9HBD4;Q92782;O94805;Q96GM5;P51531;Q92922;Q12824}

1093 [Cluster 100]GO:0005719+C cellular\_component [name] nuclear euchromatin [def] "The dispersed less dense form of chromatin in the interphase nucleus. It exists in at least two forms, a some being in the form of transcriptionally active chromatin which is the least condensed, while the rest is inactive euchromatin which is more condensed than active chromatin but less condensed than heterochromatin." [ISBN]

1094 Pathogen[ Q2Q067] interacts with 6 human partners:{Q13185;P20226;P38159;O15164;Q9HBD4;Q9BXF3}

1095 Pathogen[ P0C214] interacts with 8 human partners:{P38159;Q9HBD4;Q13185;P20226;Q9BXF3;P05412;O15164;P16220}

1096 Pathogen[ P03346] interacts with 9 human partners:{P05412;Q13263;Q9HBD4;Q9BXF3;P16220;P20226;P38159;Q13185;O15164}

1097 Pathogen[ Q85601] interacts with 9 human partners:{Q9BXF3;O15164;Q13263;P16220;P05412;Q13185;Q9HBD4;P38159;P20226}

1098 Pathogen[ P14079] interacts with 5 human partners:{O15164;Q13185;Q9BXF3;P05412;P38159}

1099 Pathogen[ P03383] interacts with 7 human

1100 partners:{Q9HBD4;P16220;P38159;P20226;Q13185;Q9BXF3;P05412}  
Pathogen[ P03410] interacts with 7 human

1101 partners:{Q9BXF3;P20226;P16220;Q13185;P05412;Q9HBD4;P38159}  
Pathogen[ P14075] interacts with 7 human

1102 partners:{Q9HBD4;P05412;P38159;P20226;Q13185;P16220;Q9BXF3}  
Pathogen[ P0C206] interacts with 9 human

1103 partners:{Q13263;P20226;P16220;P05412;O15164;P38159;Q9BXF3;Q13185;Q9HBD4}  
Pathogen[ P03363] interacts with 7 human

1104 partners:{P16220;Q13185;Q9BXF3;P38159;Q9HBD4;P20226;P05412}  
[Cluster 101]GO:0070382+C cellular\_component [name] exocytic vesicle [def] "A transport vesicle that mediates transport from an intracellular compartment to the plasma membrane, and fuses with the plasma membrane to release various cargo molecules, such as proteins or hormones, by exocytosis." [GOC

1105 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9P0M2;Q9HCH5}  
1106 Pathogen[ P0C214] interacts with 2 human partners:{Q9P0M2;Q9HCH5}  
1107 Pathogen[ P03346] interacts with 3 human partners:{Q9P0M2;Q9HCH5;Q70J99}  
1108 Pathogen[ Q85601] interacts with 2 human partners:{Q9HCH5;Q9P0M2}  
1109 Pathogen[ P14079] interacts with 2 human partners:{Q9P0M2;Q9HCH5}  
1110 Pathogen[ P03383] interacts with 1 human partners:{Q9HCH5}  
1111 Pathogen[ P03410] interacts with 3 human partners:{Q9HCH5;Q70J99;Q9P0M2}  
1112 Pathogen[ P14075] interacts with 1 human partners:{Q9HCH5}  
1113 Pathogen[ P0C206] interacts with 2 human partners:{Q9P0M2;Q9HCH5}  
1114 Pathogen[ P03363] interacts with 2 human partners:{Q9P0M2;Q9HCH5}

1115 [Cluster 102]GO:0034045+C cellular\_component [name] pre-autophagosomal structure membrane [def] "A cellular membrane associated with the pre-autophagosomal structure." [GOC

1116 Pathogen[ Q2Q067] interacts with 6 human  
partners:{Q6ZNE5;Q8TDY2;Q9Y4P8;O94817;Q676U5;Q9H1Y0}  
1117 Pathogen[ P0C214] interacts with 6 human  
partners:{Q676U5;Q8TDY2;Q6ZNE5;Q9Y4P8;O94817;Q9H1Y0}  
1118 Pathogen[ P03346] interacts with 6 human  
partners:{Q8TDY2;Q6ZNE5;Q9H1Y0;Q676U5;O94817;Q9Y4P8}  
1119 Pathogen[ Q85601] interacts with 5 human  
partners:{Q8TDY2;O94817;Q9Y4P8;Q9H1Y0;Q676U5}  
1120 Pathogen[ P14079] interacts with 6 human  
partners:{Q9Y4P8;Q8TDY2;Q9H1Y0;Q6ZNE5;Q676U5;O94817}  
1121 Pathogen[ P03383] interacts with 6 human  
partners:{Q8TDY2;Q9H1Y0;Q676U5;Q9Y4P8;O94817;Q6ZNE5}  
1122 Pathogen[ P03410] interacts with 7 human  
partners:{Q9H1Y0;Q8TDY2;Q9Y4P8;O94817;Q676U5;Q6ZNE5;Q5MNZ9}  
1123 Pathogen[ P14075] interacts with 6 human  
partners:{Q6ZNE5;Q9H1Y0;Q676U5;Q8TDY2;Q9Y4P8;O94817}  
1124 Pathogen[ P0C206] interacts with 6 human  
partners:{Q6ZNE5;Q9Y4P8;Q9H1Y0;Q8TDY2;Q676U5;O94817}  
1125 Pathogen[ P03363] interacts with 6 human  
partners:{Q6ZNE5;Q8TDY2;Q9Y4P8;Q676U5;O94817;Q9H1Y0}

1126 [Cluster 103]GO:0042719+C cellular\_component [name] mitochondrial intermembrane space protein transporter complex [def] "Soluble complex of the mitochondrial intermembrane space composed of various combinations of small Tim proteins\_ acts as a protein transporter to guide proteins to the Tim22 complex for insertion into the mitochondrial inner membrane." [PMID

1127 Pathogen[ Q2Q067] interacts with 4 human partners:{O60220;Q9Y5J6;P62072;Q9Y5J7}  
1128 Pathogen[ P0C214] interacts with 5 human  
partners:{O60220;P62072;Q9Y5J9;Q9Y5J6;Q9Y5J7}  
1129 Pathogen[ P03346] interacts with 4 human partners:{Q9Y5J7;Q9Y5J6;O60220;P62072}  
1130 Pathogen[ Q85601] interacts with 5 human  
partners:{P62072;Q9Y5J9;Q9Y5J6;O60220;Q9Y5J7}  
1131 Pathogen[ P14079] interacts with 5 human  
partners:{P62072;Q9Y5J7;O60220;Q9Y5J9;Q9Y5L4}  
1132 Pathogen[ P03383] interacts with 5 human  
partners:{Q9Y5J7;P62072;O60220;Q9Y5J6;Q9Y5J9}  
1133 Pathogen[ P03410] interacts with 6 human  
partners:{Q9Y5L4;P62072;Q9Y5J7;Q9Y5J6;Q9Y5J9;O60220}  
1134 Pathogen[ P14075] interacts with 5 human  
partners:{Q9Y5J9;P62072;O60220;Q9Y5J7;Q9Y5J6}  
1135 Pathogen[ P0C206] interacts with 6 human  
partners:{Q9Y5L4;Q9Y5J6;O60220;Q9Y5J9;Q9Y5J7;P62072}  
1136 Pathogen[ P03363] interacts with 1 human partners:{Q9Y5J7}

1137 [Cluster 104]GO:0005868+C cellular\_component [name] cytoplasmic dynein complex [def] "Any dynein complex that catalyzes movement along a cytoplasmic microtubule\_ cytoplasmic dynein complexes participates in many transport activities in eukaryotes, such as mRNA localization, intermediate filament transport, nuclear envelope breakdown, apoptosis, transport of centrosomal proteins, mitotic spindle assembly, virus transport, kinetochore functions, and movement of signaling and spindle checkpoint proteins. Subunits associated with the dynein heavy chain mediate association between dynein heavy chain and cargoes, and may include light chains and light intermediate chains." [GOC

1138 Pathogen[ Q2Q067] interacts with 10 human  
partners:{Q9NS56;P63172;Q8TF09;Q14204;P63167;Q9NP97;Q14203;Q13409;P51808;O14576}

1139 Pathogen[ P0C214] interacts with 10 human  
partners:{Q14203;Q9NS56;Q8TF09;Q14204;P51808;P63172;O14576;Q9NP97;Q13409;P63167}

1140 Pathogen[ P03346] interacts with 11 human  
partners:{O14576;P51808;Q14204;Q14203;Q8TF09;Q9NS56;P63172;Q13409;O95219;P63167;Q9NP97}

1141 Pathogen[ Q85601] interacts with 10 human  
partners:{Q13409;Q9NS56;Q9NP97;P51808;Q14204;Q14203;P63172;O14576;Q8TF09;P63167}

1142 Pathogen[ P14079] interacts with 10 human  
partners:{Q8TF09;P63172;P51808;Q14204;Q9NP97;Q13409;Q9NS56;P63167;O14576;Q14203}

1143 Pathogen[ P03383] interacts with 6 human  
partners:{P51808;P63172;Q14203;Q9NP97;Q8TF09;P63167}

1144 Pathogen[ P03410] interacts with 12 human  
partners:{Q9Y6G9;Q14204;P51808;Q13409;Q9NP97;Q8TF09;P63172;P63167;O95219;O14576;O43237;Q14203}

1145 Pathogen[ P14075] interacts with 6 human  
partners:{Q9NP97;P51808;Q8TF09;P63172;Q14203;P63167}

1146 Pathogen[ P0C206] interacts with 12 human  
partners:{Q9NS56;Q9NP97;O14576;P63167;Q8TF09;O43237;Q13409;Q14204;P51808;Q9Y6G9;Q14203;P63172}

1147 Pathogen[ P03363] interacts with 11 human  
partners:{P63167;O95219;Q14204;Q8TF09;P63172;Q13409;P51808;Q9NP97;O43237;Q14203;O14576}

1148 [Cluster 105]GO:0033503+C cellular\_component [name] HULC complex [def] "A ubiquitin-conjugating enzyme complex that contains two RING finger proteins, which have ubiquitin ligase activity, in addition to a protein with ubiquitin-conjugating enzyme activity\_ catalyzes the ubiquitination of histone H2B at lysine 119 (or the equivalent residue). In Schizosaccharomyces the subunits are Rhp1, Brl2/Rfp1 and Brll1/Rfp2." [GOC]

1149 Pathogen[ Q2Q067] interacts with 4 human partners:{P63146;Q5VTR2;O75150;P49459}

1150 Pathogen[ P0C214] interacts with 4 human partners:{P49459;O75150;Q5VTR2;P63146}

1151 Pathogen[ P03346] interacts with 4 human partners:{O75150;Q5VTR2;P49459;P63146}

1152 Pathogen[ Q85601] interacts with 4 human partners:{P63146;P49459;O75150;Q5VTR2}

1153 Pathogen[ P14079] interacts with 3 human partners:{Q5VTR2;P49459;P63146}

1154 Pathogen[ P03383] interacts with 4 human partners:{Q5VTR2;P49459;P63146;O75150}

1155 Pathogen[ P03410] interacts with 4 human partners:{P49459;Q5VTR2;O75150;P63146}

1156 Pathogen[ P14075] interacts with 4 human partners:{Q5VTR2;P49459;O75150;P63146}

1157 Pathogen[ P0C206] interacts with 4 human partners:{Q5VTR2;P49459;O75150;P63146}

1158 Pathogen[ P03363] interacts with 4 human partners:{P49459;Q5VTR2;P63146;O75150}

1159 [Cluster 106]GO:0016514+C cellular\_component [name] SWI/SNF complex [def] "A SWI/SNF-type complex that contains nine or more proteins, including both conserved (core) and nonconserved components\_ the Swi2/Snf2 ATPase is one of the core components." [GOC]

1160 Pathogen[ Q2Q067] interacts with 14 human  
partners:{Q92922;P06400;O96019;P51531;Q969G3;Q92925;O14497;P51532;Q96GM5;Q8NFD5;O94805;Q12824;Q8TAQ2;Q6STE5}

1161 Pathogen[ P0C214] interacts with 14 human  
partners:{Q12824;O14497;Q6STE5;Q8TAQ2;Q92922;Q969G3;Q92925;Q8NFD5;P51531;O94805;Q96GM5;O96019;P06400;P51532}

1162 Pathogen[ P03346] interacts with 14 human  
partners:{Q96GM5;Q8NFD5;P06400;P51532;Q92925;Q12824;O96019;Q6STE5;O14497;O94805;Q969G3;Q92922;P51531;Q8TAQ2}

1163 Pathogen[ Q85601] interacts with 14 human  
partners:{Q6STE5;P06400;Q92925;O14497;O96019;P51531;Q96GM5;P51532;Q969G3;Q8NFD5;O94805;Q92922;Q12824;Q8TAQ2}

1164 Pathogen[ P14079] interacts with 11 human  
partners:{Q6STE5;Q92922;P51532;P51531;O14497;Q8TAQ2;O94805;Q96GM5;Q8NFD5;Q12824;Q92925}

1165 Pathogen[ P03383] interacts with 14 human  
partners:{O14497;O96019;Q12824;O94805;Q6STE5;P06400;Q96GM5;Q969G3;P51531;Q92925;Q8TAQ2;P51532;Q8NFD5;Q92922}

1166 Pathogen[ P03410] interacts with 14 human  
partners:{Q96GM5;O14497;O96019;P06400;Q8NFD5;Q92925;Q969G3;O94805;Q92922;P51532;P51531;Q8TAQ2;Q6STE5;Q12824}

1167 Pathogen[ P14075] interacts with 13 human  
partners:{Q96GM5;P51532;Q92922;O14497;O96019;P51531;Q92925;Q8TAQ2;P06400;Q12824;O94805;Q8NFD5;Q6STE5}

1168 Pathogen[ P0C206] interacts with 14 human  
partners:{P51532;P51531;Q6STE5;Q92922;Q12824;Q92925;Q8TAQ2;O14497;O96019;Q96GM5;Q969G3;Q8NFD5;O94805;P06400}

1169 Pathogen[ P03363] interacts with 14 human  
partners:{Q92925;Q6STE5;Q8TAQ2;P51532;O14497;P06400;O96019;Q969G3;O94805;Q8NFD5;Q96GM5;P51531;Q92922;Q12824}

1170 [Cluster 107]GO:0042564+C cellular\_component [name] NLS-dependent protein nuclear import complex [def] "A protein complex which usually consists of three components, e.g. in Xenopus, the importin alpha and beta-subunits and any protein which has a nuclear localization sequence (NLS). The complex acts to import proteins with an NLS into the



nucleus through a nuclear pore." [GOC  
1171 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BQG0}  
1172 Pathogen[ P0C214] interacts with 1 human partners:{Q9BQG0}  
1173 Pathogen[ P03346] interacts with 1 human partners:{Q9BQG0}  
1174 Pathogen[ Q85601] interacts with 1 human partners:{Q9BQG0}  
1175 Pathogen[ P14079] interacts with 1 human partners:{Q9BQG0}  
1176 Pathogen[ P03383] interacts with 1 human partners:{Q9BQG0}  
1177 Pathogen[ P03410] interacts with 1 human partners:{Q9BQG0}  
1178 Pathogen[ P14075] interacts with 1 human partners:{Q9BQG0}  
1179 Pathogen[ P0C206] interacts with 1 human partners:{Q9BQG0}  
1180 Pathogen[ P03363] interacts with 1 human partners:{Q9BQG0}  
1181 [Cluster 108]GO:0001741+C cellular\_component [name] XY body [def] "A structure found  
in a male mammalian spermatocyte containing an unpaired X chromosome that has become  
densely heterochromatic, silenced and localized at the nuclear periphery." [GOC  
1182 Pathogen[ Q2Q067] interacts with 5 human  
partners:{Q92922;O75182;P63146;Q12824;P49459}  
1183 Pathogen[ P0C214] interacts with 5 human  
partners:{Q12824;P49459;Q92922;P63146;O75182}  
1184 Pathogen[ P03346] interacts with 7 human  
partners:{Q9NS91;Q9BYU1;Q12824;P49459;O75182;P63146;Q92922}  
1185 Pathogen[ Q85601] interacts with 6 human  
partners:{O75182;P63146;P49459;Q92922;Q12824;Q9NS91}  
1186 Pathogen[ P14079] interacts with 6 human  
partners:{Q92922;P49459;O75182;Q12824;Q96JY0;P63146}  
1187 Pathogen[ P03383] interacts with 5 human  
partners:{O75182;Q12824;P49459;P63146;Q92922}  
1188 Pathogen[ P03410] interacts with 5 human  
partners:{O75182;P49459;Q92922;P63146;Q12824}  
1189 Pathogen[ P14075] interacts with 5 human  
partners:{P49459;Q92922;O75182;Q12824;P63146}  
1190 Pathogen[ P0C206] interacts with 6 human  
partners:{Q92922;Q9NS91;Q12824;P49459;O75182;P63146}  
1191 Pathogen[ P03363] interacts with 8 human  
partners:{Q9BYU1;P49459;P63146;Q96JY0;Q92922;Q9NS91;O75182;Q12824}  
1192 [Cluster 109]GO:0031371+C cellular\_component [name] ubiquitin conjugating enzyme  
complex [def] "Any complex that possesses ubiquitin conjugating enzyme activity." [GOC  
1193 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9UNE7;Q13404}  
1194 Pathogen[ P0C214] interacts with 2 human partners:{Q13404;Q9UNE7}  
1195 Pathogen[ P03346] interacts with 2 human partners:{Q13404;Q9UNE7}  
1196 Pathogen[ Q85601] interacts with 2 human partners:{Q13404;Q9UNE7}  
1197 Pathogen[ P14079] interacts with 1 human partners:{Q13404}  
1198 Pathogen[ P03383] interacts with 1 human partners:{Q13404}  
1199 Pathogen[ P03410] interacts with 2 human partners:{Q9UNE7;Q13404}  
1200 Pathogen[ P14075] interacts with 1 human partners:{Q13404}  
1201 Pathogen[ P0C206] interacts with 2 human partners:{Q9UNE7;Q13404}  
1202 Pathogen[ P03363] interacts with 2 human partners:{Q9UNE7;Q13404}  
1203 [Cluster 110]GO:0031201+C cellular\_component [name] SNARE complex [def] "A protein  
complex involved in membrane fusion\_ a stable ternary complex consisting of a four-helix  
bundle, usually formed from one R-SNARE and three Q-SNAREs with an ionic layer sandwiched  
between hydrophobic layers. One well-characterized example is the neuronal SNARE complex  
formed of synaptobrevin 2, syntaxin 1a, and SNAP-25." [PMID  
1204 Pathogen[ Q2Q067] interacts with 5 human  
partners:{Q9UL45;O43752;O14662;Q8TAC9;Q15833}  
1205 Pathogen[ P0C214] interacts with 4 human partners:{Q15833;Q8TAC9;Q9UL45;O43752}  
1206 Pathogen[ P03346] interacts with 8 human  
partners:{Q15833;O43752;Q12981;Q13190;Q8TAC9;Q9UL45;O14662;Q86Y82}  
1207 Pathogen[ Q85601] interacts with 5 human  
partners:{Q15833;Q8TAC9;Q12981;O43752;O14662}  
1208 Pathogen[ P14079] interacts with 8 human  
partners:{O14810;Q6PUV4;Q15833;Q8TAC9;Q9UL45;Q12981;O14662;O43752}  
1209 Pathogen[ P03383] interacts with 2 human partners:{Q8TAC9;O43752}  
1210 Pathogen[ P03410] interacts with 10 human  
partners:{Q15833;Q13190;Q8TAC9;O14810;O14662;Q9UL45;O95249;Q6PUV4;O43752;Q12981}  
1211 Pathogen[ P14075] interacts with 2 human partners:{O43752;Q8TAC9}  
1212 Pathogen[ P0C206] interacts with 7 human  
partners:{O14662;Q9UL45;O43752;Q6PUV4;Q12981;Q8TAC9;Q15833}  
1213 Pathogen[ P03363] interacts with 3 human partners:{O14662;O43752;Q15833}  
1214 [Cluster 111]GO:0005760+C cellular\_component [name] gamma DNA polymerase complex [def]  
"A DNA polymerase complex consisting of a large subunit, responsible for the catalytic  
activities, and a small accessory subunit. Functions in the replication and repair of  
mitochondrial DNA." [GOC  
1215 Pathogen[ Q2Q067] interacts with 1 human partners:{P54098}  
1216 Pathogen[ P0C214] interacts with 1 human partners:{P54098}  
1217 Pathogen[ P03346] interacts with 1 human partners:{P54098}  
1218 Pathogen[ Q85601] interacts with 1 human partners:{P54098}  
1219 Pathogen[ P14079] interacts with 1 human partners:{P54098}

1220 Pathogen[ P03383] interacts with 1 human partners:{P54098}

1221 Pathogen[ P03410] interacts with 1 human partners:{P54098}

1222 Pathogen[ P14075] interacts with 1 human partners:{P54098}

1223 Pathogen[ P0C206] interacts with 1 human partners:{P54098}

1224 Pathogen[ P03363] interacts with 1 human partners:{P54098}

1225 [Cluster 112]GO:0044294+C cellular\_component [name] dendritic growth cone [def] "The migrating motile tip of a growing nerve cell dendrite." [GOC]

1226 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UQF2}

1227 Pathogen[ P0C214] interacts with 1 human partners:{Q9UQF2}

1228 Pathogen[ P03346] interacts with 1 human partners:{Q9UQF2}

1229 Pathogen[ Q85601] interacts with 1 human partners:{Q9UQF2}

1230 Pathogen[ P14079] interacts with 1 human partners:{Q9UQF2}

1231 Pathogen[ P03383] interacts with 1 human partners:{Q9UQF2}

1232 Pathogen[ P03410] interacts with 1 human partners:{Q9UQF2}

1233 Pathogen[ P14075] interacts with 1 human partners:{Q9UQF2}

1234 Pathogen[ P0C206] interacts with 1 human partners:{Q9UQF2}

1235 Pathogen[ P03363] interacts with 1 human partners:{Q9UQF2}

1236 [Cluster 113]GO:0016580+C cellular\_component [name] Sin3 complex [def] "A multiprotein complex that functions broadly in eukaryotic organisms as a transcriptional repressor of protein-coding genes, through the gene-specific deacetylation of histones. Amongst its subunits, the Sin3 complex contains Sin3-like proteins, and a number of core proteins that are shared with the NuRD complex (including histone deacetylases and histone binding proteins). The Sin3 complex does not directly bind DNA itself, but is targeted to specific genes through protein-protein interactions with DNA-binding proteins." [PMID]

1237 Pathogen[ Q2Q067] interacts with 9 human partners:{Q13547;Q96ST3;Q09028;Q92769;Q9H160;Q9UBU8;Q9H7L9;Q96QT6;O75376}

1238 Pathogen[ P0C214] interacts with 9 human partners:{Q13547;Q96QT6;Q09028;Q92769;Q9UBU8;Q9H160;O75376;Q96ST3;Q9H7L9}

1239 Pathogen[ P03346] interacts with 9 human partners:{Q96ST3;Q96QT6;Q92769;Q9UBU8;Q13547;Q09028;O75376;Q9H7L9;Q9H160}

1240 Pathogen[ Q85601] interacts with 9 human partners:{Q96QT6;Q9UBU8;Q92769;O75376;Q09028;Q13547;Q9H160;Q9H7L9;Q96ST3}

1241 Pathogen[ P14079] interacts with 9 human partners:{Q9UBU8;Q96ST3;Q9NP50;Q96QT6;Q92769;O75376;Q9H7L9;Q09028;Q9H160}

1242 Pathogen[ P03383] interacts with 10 human partners:{Q09028;O75376;Q9H7L9;Q9UBU8;Q96QT6;Q9H160;Q92769;Q13547;Q9NP50;Q96ST3}

1243 Pathogen[ P03410] interacts with 10 human partners:{Q96QT6;Q9UBU8;O75376;Q96ST3;Q09028;Q92769;Q9H160;Q9H7L9;Q13547;Q9NP50}

1244 Pathogen[ P14075] interacts with 10 human partners:{Q96ST3;Q9UBU8;Q96QT6;Q9NP50;Q13547;O75376;Q09028;Q92769;Q9H160;Q9H7L9}

1245 Pathogen[ P0C206] interacts with 10 human partners:{Q92769;Q96ST3;Q9UBU8;Q13547;Q9H160;O75376;Q9H7L9;Q09028;Q96QT6;Q9NP50}

1246 Pathogen[ P03363] interacts with 8 human partners:{Q9H160;Q96QT6;Q09028;Q9H7L9;O75376;Q9UBU8;Q96ST3;Q13547}

1247 [Cluster 114]GO:0030868+C cellular\_component [name] smooth endoplasmic reticulum membrane [def] "The lipid bilayer surrounding the smooth endoplasmic reticulum." [GOC]

1248 Pathogen[ Q2Q067] interacts with 2 human partners:{P05062;Q15436}

1249 Pathogen[ P0C214] interacts with 2 human partners:{Q15436;P05062}

1250 Pathogen[ P03346] interacts with 2 human partners:{Q15436;P05062}

1251 Pathogen[ Q85601] interacts with 2 human partners:{P05062;Q15436}

1252 Pathogen[ P14079] interacts with 1 human partners:{Q8NHG7}

1253 Pathogen[ P03383] interacts with 2 human partners:{Q15436;Q8NHG7}

1254 Pathogen[ P03410] interacts with 3 human partners:{P05062;Q15436;Q8NHG7}

1255 Pathogen[ P14075] interacts with 2 human partners:{Q8NHG7;Q15436}

1256 Pathogen[ P0C206] interacts with 3 human partners:{P05062;Q8NHG7;Q15436}

1257 Pathogen[ P03363] interacts with 1 human partners:{Q15436}

1258 [Cluster 115]GO:0005640+C cellular\_component [name] nuclear outer membrane [def] "The outer, i.e. cytoplasm-facing, lipid bilayer of the nuclear envelope\_ continuous with the endoplasmic reticulum of the cell and sometimes studded with ribosomes." [ISBN]

1259 Pathogen[ Q2Q067] interacts with 7 human partners:{P50402;Q96CM4;P78406;P42704;Q8NF91;Q9BVC6;Q13023}

1260 Pathogen[ P0C214] interacts with 8 human partners:{Q13023;P78406;P42704;Q8NF91;P50402;Q96CM4;Q9BVC6;P80303}

1261 Pathogen[ P03346] interacts with 10 human partners:{Q96CM4;P80303;P78406;Q8WXH0;Q13023;P42704;Q6ZMZ3;P50402;Q9BVC6;Q8NF91}

1262 Pathogen[ Q85601] interacts with 7 human partners:{P78406;P80303;Q96CM4;P42704;P50402;Q13023;Q8NF91}

1263 Pathogen[ P14079] interacts with 12 human partners:{Q16873;Q9BVC6;Q13023;P42704;P80303;Q8N205;Q8WXH0;Q6ZMZ3;P78406;P50402;Q8NF91;Q96CM4}

1264 Pathogen[ P03383] interacts with 5 human partners:{Q13023;P78406;Q9BVC6;P50402;P42704}

1265 Pathogen[ P03410] interacts with 12 human partners:{P80303;Q9BVC6;Q6ZMZ3;P78406;Q8N205;Q96CM4;Q16873;P42704;Q13023;P50402;Q8WXH0;Q8NF91}

1266 Pathogen[ P14075] interacts with 5 human partners:{P50402;Q96CM4;P78406;P42704;Q8NF91}

1267 partners:{P42704;Q9BVC6;P78406;P50402;Q13023}  
 Pathogen[ P0C206] interacts with 11 human  
 partners:{P50402;Q13023;P80303;Q96CM4;Q6ZMZ3;Q8NF91;Q9BVC6;Q8N205;Q8WXH0;P78406;P42704}

1268 Pathogen[ P03363] interacts with 6 human  
 partners:{Q8NF91;Q6ZMZ3;P42704;P50402;Q13023;P78406}

1269 [Cluster 116]GO:0071339+C cellular\_component [name] MLL1 complex [def] "A protein complex that can methylate lysine-4 of histone H3. MLL1/MLL is the catalytic methyltransferase subunit, and the complex also contains the core components ASH2L, HCFC1/HCF1 WDR5 and RBBP5." [GOC

1270 Pathogen[ Q2Q067] interacts with 16 human  
 partners:{O75461;Q16594;Q8WWY3;Q96EZ8;P51610;Q8IZL8;Q7Z3B3;P49848;O00268;Q9Y4W2;P61244;Q99496;Q15545;Q9HCK8;P21675;Q6PI98}

1271 Pathogen[ P0C214] interacts with 16 human  
 partners:{O00268;P61244;P51610;O75461;P21675;Q8IZL8;Q15545;Q16594;Q6PI98;P49848;Q9HCK8;Q9Y4W2;Q99496;Q8IXM2;Q96EZ8;Q8WWY3}

1272 Pathogen[ P03346] interacts with 20 human  
 partners:{Q8IXM2;Q15291;Q96EZ8;P51610;Q8IWI9;O00268;Q6PI98;Q7Z3B3;P49848;Q9HCK8;Q99496;Q8WWY3;P61244;P21675;Q9H7Z6;O75461;Q8IZL8;Q15545;Q9Y4W2;Q16594}

1273 Pathogen[ Q85601] interacts with 17 human  
 partners:{Q9Y4W2;Q15545;Q8IZL8;Q9H7Z6;O00268;Q16594;P51610;O75461;Q6PI98;P49848;Q8IXM2;Q99496;Q8WWY3;P61244;Q9HCK8;P21675;Q96EZ8}

1274 Pathogen[ P14079] interacts with 18 human  
 partners:{Q16594;O75461;P51610;Q8WWY3;Q6PI98;Q99496;P49848;Q9Y4W2;Q7Z3B3;Q9HCK8;Q8IZL8;Q8IXM2;Q9NXF1;P61244;Q96EZ8;P21675;O00268;Q15545}

1275 Pathogen[ P03383] interacts with 15 human  
 partners:{O75461;Q8IZL8;Q6PI98;P51610;Q16594;P49848;O00268;Q99496;Q9HCK8;P21675;Q8WWY3;Q15545;Q96EZ8;P61244;Q9Y4W2}

1276 Pathogen[ P03410] interacts with 18 human  
 partners:{Q9NXF1;O75461;P51610;Q99496;Q8WWY3;O00268;Q6PI98;P21675;P61244;Q9Y4W2;Q8IXM2;P49848;Q9HCK8;Q16594;Q96EZ8;Q8IZL8;Q7Z3B3;Q15545}

1277 Pathogen[ P14075] interacts with 16 human  
 partners:{P21675;P61244;P51610;Q7Z3B3;Q96EZ8;Q16594;Q6PI98;P49848;Q9HCK8;Q15545;Q99496;Q9Y4W2;O00268;Q8IZL8;O75461;Q8WWY3}

1278 Pathogen[ P0C206] interacts with 18 human  
 partners:{Q9HCK8;Q15545;P49848;O00268;Q6PI98;Q8IZL8;Q96EZ8;P51610;Q8WWY3;P61244;Q8IXM2;O75461;Q7Z3B3;Q9Y4W2;Q99496;Q9H7Z6;P21675;Q16594}

1279 Pathogen[ P03363] interacts with 19 human  
 partners:{Q8IXM2;O75461;P49848;Q9Y4W2;Q15291;Q8IZL8;Q15545;Q99496;O00268;Q8WWY3;P61244;Q9HCK8;Q7Z3B3;Q96EZ8;P21675;Q8IWI9;P51610;Q16594;Q6PI98}

1280 [Cluster 117]GO:0030687+C cellular\_component [name] preribosome, large subunit precursor [def] "A preribosomal complex consisting of 27SA, 27SB, and/or 7S pre-rRNA, 5S rRNA, ribosomal proteins including late-associating large subunit proteins, and associated proteins\_ a precursor of the eukaryotic cytoplasmic large ribosomal subunit." [PMID

1281 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9GZL7;O00541}

1282 Pathogen[ P0C214] interacts with 2 human partners:{O00541;Q9GZL7}

1283 Pathogen[ P03346] interacts with 2 human partners:{O00541;Q9GZL7}

1284 Pathogen[ Q85601] interacts with 2 human partners:{O00541;Q9GZL7}

1285 Pathogen[ P14079] interacts with 2 human partners:{Q9GZL7;O00541}

1286 Pathogen[ P03383] interacts with 2 human partners:{O00541;Q9GZL7}

1287 Pathogen[ P03410] interacts with 2 human partners:{Q9GZL7;O00541}

1288 Pathogen[ P14075] interacts with 2 human partners:{Q9GZL7;O00541}

1289 Pathogen[ P0C206] interacts with 2 human partners:{Q9GZL7;O00541}

1290 Pathogen[ P03363] interacts with 2 human partners:{Q9GZL7;O00541}

1291 [Cluster 118]GO:0000930+C cellular\_component [name] gamma-tubulin complex [def] "A multiprotein complex composed of gamma-tubulin and other non-tubulin proteins. Gamma-tubulin complexes are localized to microtubule organizing centers, and play an important role in the nucleation of microtubules. The number and complexity of non-tubulin proteins associated with these complexes varies between species." [GOC

1292 Pathogen[ Q2Q067] interacts with 6 human  
 partners:{Q14008;Q9NS56;Q9UBK9;O15078;P23258;Q6QNY1}

1293 Pathogen[ P0C214] interacts with 6 human  
 partners:{O15078;Q14008;Q9NS56;P23258;Q6QNY1;Q9UBK9}

1294 Pathogen[ P03346] interacts with 6 human  
 partners:{P23258;Q9NS56;Q6QNY1;Q14008;O15078;Q9UBK9}

1295 Pathogen[ Q85601] interacts with 6 human  
 partners:{Q9NS56;Q14008;O15078;P23258;Q9UBK9;Q6QNY1}

1296 Pathogen[ P14079] interacts with 6 human  
 partners:{P23258;Q9UBK9;Q9NS56;O15078;Q6QNY1;Q14008}

1297 Pathogen[ P03383] interacts with 4 human partners:{Q14008;O15078;Q9UBK9;Q6QNY1}

1298 Pathogen[ P03410] interacts with 5 human  
 partners:{Q6QNY1;Q14008;Q9UBK9;O15078;P23258}

1299 Pathogen[ P14075] interacts with 4 human partners:{O15078;Q9UBK9;Q6QNY1;Q14008}

1300 Pathogen[ P0C206] interacts with 6 human  
 partners:{Q9NS56;Q14008;Q6QNY1;O15078;P23258;Q9UBK9}

1301 Pathogen[ P03363] interacts with 5 human partners: {O15078;Q9UBK9;Q6QNY1;Q14008;P23258}

1302 [Cluster 119]GO:0005797+C cellular\_component [name] Golgi medial cisterna [def] "The middle Golgi cisterna (or cisternae)." [ISBN

1303 Pathogen[ Q2Q067] interacts with 2 human partners: {Q8IV36;Q9H8Y8}

1304 Pathogen[ P0C214] interacts with 3 human partners: {Q8IV36;Q9H8Y8;P80303}

1305 Pathogen[ P03346] interacts with 3 human partners: {P80303;Q8IV36;Q9H8Y8}

1306 Pathogen[ Q85601] interacts with 3 human partners: {Q8IV36;P80303;Q9H8Y8}

1307 Pathogen[ P14079] interacts with 4 human partners: {P80303;Q9H8Y8;Q8IV36;Q92896}

1308 Pathogen[ P03383] interacts with 2 human partners: {Q8IV36;Q9H8Y8}

1309 Pathogen[ P03410] interacts with 4 human partners: {P80303;Q8IV36;Q92896;Q9H8Y8}

1310 Pathogen[ P14075] interacts with 2 human partners: {Q8IV36;Q9H8Y8}

1311 Pathogen[ P0C206] interacts with 3 human partners: {P80303;Q9H8Y8;Q8IV36}

1312 Pathogen[ P03363] interacts with 2 human partners: {Q8IV36;Q9H8Y8}

1313 [Cluster 120]GO:0005958+C cellular\_component [name] DNA-dependent protein kinase-DNA ligase 4 complex [def] "A large protein complex which is involved in the repair of DNA double-strand breaks and, in mammals, V(D)J recombination events. It consists of the DNA-dependent protein kinase catalytic subunit (DNA-PKcs), the DNA end-binding heterodimer Ku, the nuclear phosphoprotein XRCC4 or a homolog thereof, and DNA ligase IV." [GOC

1314 Pathogen[ Q2Q067] interacts with 3 human partners: {Q13426;P12956;P13010}

1315 Pathogen[ P0C214] interacts with 3 human partners: {P13010;Q13426;P12956}

1316 Pathogen[ P03346] interacts with 3 human partners: {P12956;Q13426;P13010}

1317 Pathogen[ Q85601] interacts with 3 human partners: {Q13426;P13010;P12956}

1318 Pathogen[ P14079] interacts with 4 human partners: {P13010;P12956;Q13426;P49917}

1319 Pathogen[ P03383] interacts with 3 human partners: {P13010;Q13426;P12956}

1320 Pathogen[ P03410] interacts with 3 human partners: {P12956;Q13426;P13010}

1321 Pathogen[ P14075] interacts with 3 human partners: {P12956;Q13426;P13010}

1322 Pathogen[ P0C206] interacts with 4 human partners: {P13010;P49917;Q13426;P12956}

1323 Pathogen[ P03363] interacts with 3 human partners: {P12956;P13010;Q13426}

1324 [Cluster 121]GO:0070062+C cellular\_component [name] extracellular vesicular exosome [def] "A membrane-bounded vesicle that is released into the extracellular region by fusion of the limiting endosomal membrane of a multivesicular body with the plasma membrane." [GOC

1325 Pathogen[ Q2Q067] interacts with 3 human partners: {P11142;P38159;P14672}

1326 Pathogen[ P0C214] interacts with 3 human partners: {P38159;P14672;P11142}

1327 Pathogen[ P03346] interacts with 3 human partners: {P11142;P38159;P14672}

1328 Pathogen[ Q85601] interacts with 3 human partners: {P11142;P38159;P14672}

1329 Pathogen[ P14079] interacts with 4 human partners: {P11142;Q08722;P14672;P38159}

1330 Pathogen[ P03383] interacts with 3 human partners: {P38159;P11142;P14672}

1331 Pathogen[ P03410] interacts with 3 human partners: {P11142;Q08722;P38159}

1332 Pathogen[ P14075] interacts with 3 human partners: {P11142;P38159;P14672}

1333 Pathogen[ P0C206] interacts with 3 human partners: {P38159;P14672;P11142}

1334 Pathogen[ P03363] interacts with 3 human partners: {P38159;P14672;P11142}

1335 [Cluster 122]GO:0000793+C cellular\_component [name] condensed chromosome [def] "A highly compacted molecule of DNA and associated proteins resulting in a cytologically distinct structure." [GOC

1336 Pathogen[ Q2Q067] interacts with 16 human partners: {P27694;Q9UHC1;O95347;O00541;Q06609;P11388;O43823;Q15021;Q96JM3;Q13426;P46013;P24941;Q9Y468;P49711;P08397;Q9BXW9}

1337 Pathogen[ P0C214] interacts with 18 human partners: {Q06609;O00541;Q9Y468;O95347;P08397;Q13426;Q9UHC1;O43823;P24941;O60264;P11388;P49711;Q9BXW9;Q96JM3;P46013;P27694;P40692;Q15021}

1338 Pathogen[ P03346] interacts with 16 human partners: {Q06609;P11388;O00541;P27694;P24941;Q13426;O95347;Q9UHC1;Q15021;O60264;P49711;Q9Y468;Q96JM3;Q9BXW9;P46013;O43823}

1339 Pathogen[ Q85601] interacts with 18 human partners: {Q96JM3;O00541;O95347;Q9BXW9;Q13426;Q9Y468;P49711;P27694;P11388;Q9UHC1;P08397;O43823;P46013;P40692;O60264;Q06609;P24941;Q15021}

1340 Pathogen[ P14079] interacts with 18 human partners: {P11388;P40692;O43823;Q9Y468;Q9UHC1;Q9BXW9;O95347;P08397;Q96JM3;O60264;P27694;O00541;Q15021;Q06609;Q13426;P49711;P49917;P46013}

1341 Pathogen[ P03383] interacts with 13 human partners: {Q06609;P49711;O00541;P27694;Q9BXW9;Q9UHC1;P46013;O95347;P24941;Q13426;P08397;Q15021;Q9Y468}

1342 Pathogen[ P03410] interacts with 18 human partners: {P40692;P08397;Q96JM3;P46013;Q9BXW9;Q9Y468;O95347;P24941;Q13426;P49711;P11388;O00541;P27694;O60264;O43823;Q9UHC1;Q06609;Q15021}

1343 Pathogen[ P14075] interacts with 14 human partners: {P24941;Q9Y468;O00541;P08397;O95347;Q9UHC1;Q13426;P27694;P49711;O43823;P46013;Q9BXW9;Q06609;Q15021}

1344 Pathogen[ P0C206] interacts with 20 human partners: {Q9Y468;P40692;P46013;Q15021;Q9UHC1;P49917;O95347;Q13426;P49711;Q96JM3;O00541;O43823;Q06609;P27694;P11388;Q9BXW9;P08397;P24941;Q9UIG0;O60264}

1345 Pathogen[ P03363] interacts with 14 human partners: {P27694;Q9BXW9;Q15021;Q9Y468;O95347;Q9UHC1;P24941;P49711;O60264;Q96JM3;Q13426}

6;Q06609;P46013;O00541}

1346 [Cluster 123]GO:0031674+C cellular\_component [name] I band [def] "A region of a sarcomere that appears as a light band on each side of the Z disc, comprising a region of the sarcomere where thin (actin) filaments are not overlapped by thick (myosin) filaments\_ contains actin, troponin, and tropomyosin\_ each sarcomere includes half of an I band at each end." [ISBN

1347 Pathogen[ Q2Q067] interacts with 4 human partners:{P02511;Q92831;Q15327;Q86TC9}

1348 Pathogen[ P0C214] interacts with 5 human partners:{Q15327;P02511;Q86TC9;Q86SG2;Q92831}

1349 Pathogen[ P03346] interacts with 7 human partners:{A8MU46;Q86TC9;Q86SG2;Q15327;Q92831;O76041;P02511}

1350 Pathogen[ Q85601] interacts with 5 human partners:{Q86TC9;Q86SG2;Q92831;P02511;Q15327}

1351 Pathogen[ P14079] interacts with 7 human partners:{P02511;Q86SG2;Q86TC9;P68032;O76041;Q15327;O15273}

1352 Pathogen[ P03383] interacts with 3 human partners:{Q92831;P02511;Q15327}

1353 Pathogen[ P03410] interacts with 8 human partners:{Q92831;O76041;Q15327;A8MU46;O15273;P02511;Q86SG2;Q86TC9}

1354 Pathogen[ P14075] interacts with 3 human partners:{Q92831;Q15327;P02511}

1355 Pathogen[ P0C206] interacts with 6 human partners:{Q86TC9;Q15327;Q92831;O76041;Q86SG2;P02511}

1356 Pathogen[ P03363] interacts with 6 human partners:{Q86TC9;Q92831;Q15327;Q86SG2;O76041;A8MU46}

1357 [Cluster 124]GO:0019008+C cellular\_component [name] molybdopterin synthase complex [def] "A protein complex that possesses molybdopterin synthase activity. In E. coli, the complex is a heterotetramer consisting of two Moad and two MoaE subunits." [GOC

1358 Pathogen[ Q2Q067] interacts with 1 human partners:{O96007}

1359 Pathogen[ P0C214] interacts with 2 human partners:{O96033;O96007}

1360 Pathogen[ P03346] interacts with 1 human partners:{O96007}

1361 Pathogen[ Q85601] interacts with 1 human partners:{O96007}

1362 Pathogen[ P14079] interacts with 2 human partners:{O96007;O96033}

1363 Pathogen[ P03383] interacts with 1 human partners:{O96007}

1364 Pathogen[ P03410] interacts with 2 human partners:{O96007;O96033}

1365 Pathogen[ P14075] interacts with 1 human partners:{O96007}

1366 Pathogen[ P0C206] interacts with 1 human partners:{O96007}

1367 Pathogen[ P03363] interacts with 1 human partners:{O96007}

1368 [Cluster 125]GO:0016363+C cellular\_component [name] nuclear matrix [def] "The dense fibrillar network lying on the inner side of the nuclear membrane." [ISBN

1369 Pathogen[ Q2Q067] interacts with 56 human partners:{P49454;P25490;Q96FV9;P09917;P54252;P02545;Q9Y6D6;Q9ULX6;Q6ZW49;P20700;Q5VTD9;P52272;Q14980;Q13427;Q9P0U4;Q15233;P54259;Q96T88;Q5EE01;Q9Y6K1;O14929;Q9BSI4;Q8WYP5;Q9UIS9;Q99684;Q5T3J3;P17676;O75400;P23528;Q9UHK0;O43823;P54253;Q8IYB3;P05787;P60900;O00255;Q9HD42;O15265;Q9H4L7;P23246;Q15527;Q9UPW6;Q5BKZ1;Q13216;Q7RTV0;Q06455;O95619;Q01826;Q9GZX5;Q9BX66;P10242;O60870;Q9Y281;Q8WXF1;P49715;Q8N2W9}

1370 Pathogen[ P0C214] interacts with 56 human partners:{Q5BKZ1;Q96FV9;P09917;P54253;Q9BSI4;Q9Y281;Q8N2W9;Q5EE01;Q9HD42;O14929;Q8WYP5;Q15233;P23246;Q9BX66;Q9Y6K1;Q06455;P05787;Q9UHK0;Q13427;P20700;Q9H4L7;Q9GZX5;P17676;Q96T88;Q5VTD9;O95619;Q6ZW49;Q13216;Q14980;P50747;Q9UIS9;P52272;Q8IYB3;O60870;Q8WXF1;O43823;Q7RTV0;Q96KR7;Q9ULX6;P10242;P43243;Q01826;Q9Y6D6;O15265;Q9UPW6;P60900;Q99684;P02545;O15527;Q5T3J3;P49454;Q7L5Y9;O75400;O00255;P54252;P54259}

1371 Pathogen[ P03346] interacts with 61 human partners:{Q9BSI4;Q8NEA9;Q96FV9;O15265;Q9Y6K1;Q96KR7;Q9Y281;Q8WXF1;Q8IYB3;Q9UPW6;P17676;Q7RTV0;P20700;Q9HD42;O75400;Q5EE01;P43243;Q8WYP5;P25490;P23246;P05787;Q5T3J3;O14682;Q9BX66;P49715;P02545;Q13427;Q9ULX6;Q14980;O60870;Q9Y6D6;P09917;P10242;Q9UIS9;Q9P0U4;O00255;Q99684;Q9UHK0;P60900;Q13216;Q8N2W9;Q5VTD9;O95619;Q15233;P52272;Q9GZX5;P54253;P23528;O15527;O43823;Q01826;Q96IK5;P54259;O14929;Q96T88;Q6ZW49;P49454;P54252;Q9H4L7;Q5BKZ1;Q06455}

1372 Pathogen[ Q85601] interacts with 55 human partners:{P54259;O95619;P60900;P49454;P20700;O15527;P17676;Q06455;P02545;Q8IYB3;Q9UPW6;Q7RTV0;O15265;P09917;P05787;Q9BX66;Q13216;O75400;Q5EE01;Q8WYP5;Q7L5Y9;P25490;P10242;Q8WXF1;Q8N2W9;Q13427;P54252;Q96FV9;Q9GZX5;O60870;Q9P0U4;Q9UIS9;Q9ULX6;O14929;Q9H4L7;Q9Y6K1;Q96T88;Q9Y281;O00255;Q01826;Q6ZW49;Q9UHK0;Q99684;Q14980;Q15233;P49715;Q5VTD9;Q9Y6D6;O43823;P54253;P23528;P23246;Q5BKZ1;Q5T3J3;Q9HD42}

1373 Pathogen[ P14079] interacts with 56 human partners:{Q14980;Q9UPW6;Q8N2W9;Q5EE01;Q9UIS9;O75400;Q9Y6K1;Q5T3J3;Q9ULX6;Q9BSI4;O43823;Q9H4L7;P54252;Q9GZX5;Q99684;Q01826;P23246;Q9HD42;Q13216;Q7L5Y9;Q13427;O15527;Q9UHK0;O60870;P54253;Q96FV9;P43243;Q8IYB3;Q5BKZ1;Q96KR7;O14929;Q5VTD9;P60900;Q8WYP5;P23528;P49715;Q7RTV0;Q9Y6D6;Q6ZW49;O43294;P09917;Q9Y281;Q9P0U4;P20700;Q06455;P54259;O15265;Q9UQE7;P49454;P10242;P02545;Q9BX66;P25490;O95619;Q15233;O00255}

1374 Pathogen[ P03383] interacts with 46 human partners:{P02545;P49454;Q9Y281;Q06455;Q9UPW6;Q13216;P60900;O15527;Q5EE01;Q8WYP5;Q01826;Q96FV9;Q8WXF1;Q9Y6D6;O75400;Q9GZX5;Q6ZW49;Q8N2W9;O60870;Q8IYB3;P54252;Q13427;P05787;Q9UHK0;P20700;Q9Y6K1;O14929;O15265;P17676;Q9BSI4;O00255;Q9HD42;Q99684;Q9ULX6;Q14980;P54253;P10242;Q15233;P23246;P23528;O95619;Q5T3J3;Q7RTV0;P54259;Q9UIS9;Q5BKZ1}

1375 Pathogen[ P03410] interacts with 59 human partners:{O95619;P23246;Q9H4L7;O14929;P17676;Q9P0U4;Q15233;P60900;Q5T3J3;Q9UQE7;Q9UHK

- 0;P10242;O60870;P20700;P05787;O43294;Q8N2W9;P54252;Q9BSI4;Q99684;Q9UPW6;P25490;Q5EE01;Q96FV9;P49454;Q14980;Q96KR7;O75400;P43243;O15527;Q9HD42;P02545;Q01826;Q8WXF1;Q9ULX6;Q9Y6D6;P52272;Q06455;Q9GZX5;Q8IYB3;Q5BKZ1;Q9Y281;Q13216;Q9UIS9;Q7RTV0;P54259;P09917;O15265;P23528;P54253;Q9Y6K1;Q5VTD9;Q13427;O00255;O43823;Q8WYP5;Q7L5Y9;Q6ZW49;Q9BX66}
- 1376 Pathogen[ P14075] interacts with 48 human  
partners: {P54253;Q8WXF1;Q9Y6K1;P23246;O15265;Q5BKZ1;Q9BSI4;P60900;Q5EE01;Q8WYP5;Q6ZW49;O15527;P20700;O95619;Q7L5Y9;Q13216;Q8N2W9;O14929;Q9Y6D6;P10242;O75400;P54252;Q01826;P23528;Q9UHK0;O60870;O00255;P02545;Q9UPW6;Q06455;Q99684;Q9ULX6;Q9UIS9;Q8IYB3;Q15233;Q9HD42;P54259;Q13427;P17676;Q5T3J3;O43823;Q14980;Q96FV9;P49454;Q9GZX5;Q9Y281;P05787;Q7RTV0}
- 1377 Pathogen[ P0C206] interacts with 60 human  
partners: {P05787;Q9H4L7;Q8WYP5;Q9POU4;P09917;Q06455;Q9Y6K1;Q5T3J3;O15527;Q6ZW49;P25490;Q9Y6D6;Q15233;Q8IYB3;Q9UHK0;O00255;O60870;Q8N2W9;P10242;O15265;P60900;Q9BSI4;P49715;P49454;Q9ULX6;P54252;Q5BKZ1;Q13216;P54259;P23246;Q5EE01;Q96FV9;Q7L5Y9;Q9UQE7;Q9UIS9;O95619;P17676;O14929;Q13427;Q8WXF1;Q96T88;Q9UPW6;Q7RTV0;O43294;Q9GZX5;Q99684;Q9BX66;P43243;O43823;O75400;P02545;Q01826;P20700;Q5VTD9;Q9HD42;Q14980;P23528;Q96KR7;P54253;Q9Y281}
- 1378 Pathogen[ P03363] interacts with 57 human  
partners: {Q5VTD9;O95619;Q99684;Q15233;Q06455;P49454;Q13427;P23246;O15527;P17676;Q9BX66;Q2VIQ3;O14682;P02545;P54259;Q9H4L7;Q8WYP5;Q14980;P20700;P25490;Q01826;Q7RTV0;Q9UHK0;Q9POU4;P54252;Q9Y6K1;Q9BSI4;Q96FV9;P05787;P52272;Q5BKZ1;O75400;Q5EE01;Q8IYB3;Q9UPN6;O60870;O15265;O14929;P54253;P43243;P23528;Q8NEA9;P10242;Q96T88;Q5T3J3;Q13216;Q6ZW49;Q96KR7;Q9Y6D6;Q8WXF1;Q8N2W9;Q9GZX5;Q9UPW6;Q9ULX6;Q9HD42;Q9UIS9;Q9Y281}
- 1379 [Cluster 126]GO:0001726+C cellular\_component [name] ruffle [def] "Projection at the leading edge of a crawling cell\_ the protrusions are supported by a microfilament meshwork." [ISBN
- 1380 Pathogen[ Q2Q067] interacts with 9 human  
partners: {P22392;Q8WX93;Q9NPB6;P56945;P31949;O14713;P06396;P35579;Q00534}
- 1381 Pathogen[ P0C214] interacts with 8 human  
partners: {P56945;Q9UM54;P06396;Q00534;Q9NPB6;P31949;P22392;O14713}
- 1382 Pathogen[ P03346] interacts with 16 human  
partners: {Q8WX93;P35579;Q14247;Q9NPB6;P06703;Q9Y5K6;O60662;P56945;Q9Y4G6;O14713;P22392;P30622;Q00534;P06396;P31949;Q9NSI8}
- 1383 Pathogen[ Q85601] interacts with 12 human  
partners: {Q8WX93;P06396;Q9Y5K6;O14713;P35579;P30622;P56945;P22392;Q9NPB6;P31949;Q9UM54;Q00534}
- 1384 Pathogen[ P14079] interacts with 16 human  
partners: {P35579;P09327;Q9NP84;Q9NR12;Q8WX93;P31949;Q9UM54;Q9Y4G6;P22392;Q14247;O14713;Q9Y5K6;P06703;Q9NPB6;P35241;P30622}
- 1385 Pathogen[ P03383] interacts with 7 human  
partners: {P56945;O14713;P22392;Q00534;Q9NPB6;P35579;P06396}
- 1386 Pathogen[ P03410] interacts with 16 human  
partners: {P30622;Q00534;P06396;O14713;P35579;P31949;P06703;Q9Y5K6;Q9UM54;Q9Y4G6;P56945;Q9NPB6;Q14247;P35241;Q9NP84;Q8WX93}
- 1387 Pathogen[ P14075] interacts with 7 human  
partners: {O14713;Q00534;P06396;P35579;Q9NPB6;P22392;P56945}
- 1388 Pathogen[ P0C206] interacts with 13 human  
partners: {P31949;Q9UM54;P06396;P22392;O14713;Q8WX93;P30622;Q9NPB6;P35579;P06703;Q9Y5K6;P56945;Q00534}
- 1389 Pathogen[ P03363] interacts with 16 human  
partners: {Q9NSI8;P35579;Q14247;P31949;Q9NPB6;O14713;Q7L576;Q9Y4G6;P06396;Q00534;P30622;Q8WX93;P56945;O60662;Q9NR12;Q9Y5K6}
- 1390 [Cluster 127]GO:0005777+C cellular\_component [name] peroxisome [def] "A small, membrane-bounded organelle that uses dioxygen (O2) to oxidize organic molecules\_ contains some enzymes that produce and others that degrade hydrogen peroxide (H2O2)." [ISBN
- 1391 Pathogen[ Q2Q067] interacts with 6 human  
partners: {O14734;O75381;Q9GZY8;Q9NR77;P40855;P08670}
- 1392 Pathogen[ P0C214] interacts with 13 human  
partners: {Q13907;O75874;Q9H4I8;Q9BXS1;P40855;P29401;O75381;Q13011;O14832;P08670;Q9NR77;O14734;Q9GZY8}
- 1393 Pathogen[ P03346] interacts with 12 human  
partners: {O75381;Q9H4I8;O94972;Q9NR77;P08670;O14734;P56589;P50542;P40855;O43933;O96011;Q9GZY8}
- 1394 Pathogen[ Q85601] interacts with 8 human  
partners: {P08670;O14734;Q9NR77;O43933;O75381;Q9GZY8;Q13907;P40855}
- 1395 Pathogen[ P14079] interacts with 26 human  
partners: {Q9Y5Y5;O75192;Q9BXS1;Q96HA9;P40855;P56589;Q13907;A8MXV4;P29401;O95822;Q7Z434;Q9Y6I8;P50542;O96011;Q53FP2;O14832;O14734;Q7Z412;P53602;Q5T011;O75381;Q9GZY8;P08670;Q8NFP0;Q9NR77;Q86UB9}
- 1396 Pathogen[ P03383] interacts with 8 human  
partners: {Q96HA9;P08670;O14734;O75381;Q9NR77;Q8NFP0;Q9GZY8;P40855}
- 1397 Pathogen[ P03410] interacts with 24 human  
partners: {O75192;P53602;Q9GZY8;Q8NFP0;Q13011;Q9Y5Y5;O96011;P40855;O75381;Q7Z434;O14734;Q9Y6I8;A8MXV4;O14832;Q96HA9;P08670;Q96CN7;P50542;Q13907;P56589;Q86UB9;Q9NR77;O95822;Q9BXS1}
- 1398 Pathogen[ P14075] interacts with 11 human

partners:{P40855;O14734;A8MXV4;Q9GZY8;O75381;Q96HA9;Q9NR77;P08670;O14832;O75192;Q8NFP0}  
 1399 Pathogen[ P0C206] interacts with 21 human  
 partners:{O43933;O75192;A8MXV4;Q96HA9;O75381;P56589;O14832;Q8NFP0;P50542;Q9NR77;Q13907;Q9BXS1;Q9H4I8;P40855;O14734;O96011;Q9GZY8;P08670;Q9Y6I8;Q86UB9;P29401}  
 1400 Pathogen[ P03363] interacts with 9 human  
 partners:{O14734;O94972;O43933;Q9NR77;Q9H4I8;P08670;O75381;P40855;Q9GZY8}  
 1401 [Cluster 128]GO:0000124+C cellular\_component [name] SAGA complex [def] "A SAGA-type histone acetyltransferase complex that contains Spt8 (in budding yeast) or a homolog thereof\_ additional polypeptides include Spt group, consisting of Spt7, Spt3, and Spt20/Ada5, which interact with the TATA-binding protein (TBP)\_ the Ada group, consisting of Adal, Ada2, Ada3, Ada4/Gcn5, and Ada5/Spt20, which is functionally linked to the nucleosomal HAT activity\_ Tral, an ATM/PI-3 kinase-related protein that targets DNA-bound activators for recruitment to promoters\_ the TBP-associated factor (TAF) proteins, consisting of Taf5, Taf6, Taf9, Taf10, and Taf12, which mediate nucleosomal HAT activity and are thought to help recruit the basal transcription machinery." [PMID  
 1402 Pathogen[ Q2Q067] interacts with 2 human partners:{Q14CW9;Q9NPA8}  
 1403 Pathogen[ P0C214] interacts with 2 human partners:{Q14CW9;Q9NPA8}  
 1404 Pathogen[ P03346] interacts with 2 human partners:{Q14CW9;Q9NPA8}  
 1405 Pathogen[ Q85601] interacts with 2 human partners:{Q14CW9;Q9NPA8}  
 1406 Pathogen[ P14079] interacts with 2 human partners:{Q14CW9;Q9NPA8}  
 1407 Pathogen[ P03383] interacts with 2 human partners:{Q9NPA8;Q14CW9}  
 1408 Pathogen[ P03410] interacts with 2 human partners:{Q14CW9;Q9NPA8}  
 1409 Pathogen[ P14075] interacts with 2 human partners:{Q14CW9;Q9NPA8}  
 1410 Pathogen[ P0C206] interacts with 2 human partners:{Q14CW9;Q9NPA8}  
 1411 Pathogen[ P03363] interacts with 2 human partners:{Q9NPA8;Q14CW9}  
 1412 [Cluster 129]GO:0000784+C cellular\_component [name] nuclear chromosome, telomeric region [def] "The terminal region of a linear chromosome in the nucleus that includes the telomeric DNA repeats and associated proteins." [GOC  
 1413 Pathogen[ Q2Q067] interacts with 13 human  
 partners:{Q92889;Q9H2K2;Q9NYB0;Q15554;P54274;Q9H668;Q00577;O60934;Q2NKJ3;O95271;P13010;Q8IY92;Q86WV5}  
 1414 Pathogen[ P0C214] interacts with 12 human  
 partners:{Q92889;P13010;Q15554;Q86WV5;Q00577;Q9H2K2;Q9NYB0;Q9H668;Q8IY92;O95271;P54274;Q2NKJ3}  
 1415 Pathogen[ P03346] interacts with 15 human  
 partners:{Q86WV5;Q15554;Q00577;P07992;P54274;P13010;Q9H2K2;Q9H668;Q9NUX5;Q9NYB0;O60934;Q92889;O95271;Q8IY92;Q2NKJ3}  
 1416 Pathogen[ Q85601] interacts with 13 human  
 partners:{Q86WV5;Q15554;Q2NKJ3;Q92889;Q9H2K2;Q00577;Q8IY92;Q9H668;Q9NYB0;O95271;P54274;P13010;O60934}  
 1417 Pathogen[ P14079] interacts with 16 human  
 partners:{Q9H668;P54274;Q9NUX5;Q86WV5;O95271;P13010;Q9H2K2;O60934;Q9NYB0;Q92889;Q8NAM6;Q00577;Q15554;Q2NKJ3;P07992;Q8IY92}  
 1418 Pathogen[ P03383] interacts with 9 human  
 partners:{P13010;Q9NYB0;Q15554;Q8IY92;Q00577;O95271;Q86WV5;Q2NKJ3;P54274}  
 1419 Pathogen[ P03410] interacts with 15 human  
 partners:{Q9NUX5;Q15554;P07992;P54274;Q9H668;Q92889;Q00577;Q86WV5;Q8IY92;O95271;P13010;Q9H2K2;Q2NKJ3;Q9NYB0;O60934}  
 1420 Pathogen[ P14075] interacts with 10 human  
 partners:{Q15554;Q2NKJ3;P54274;Q86WV5;Q00577;P13010;O95271;Q8IY92;Q9NYB0;Q9H668}  
 1421 Pathogen[ P0C206] interacts with 15 human  
 partners:{O95271;Q2NKJ3;P13010;Q86WV5;Q15554;O60934;Q9H668;P07992;P54274;Q92889;Q9NYB0;Q9NUX5;Q8IY92;Q9H2K2;Q00577}  
 1422 Pathogen[ P03363] interacts with 13 human  
 partners:{Q15554;P13010;Q9NYB0;Q92889;Q86WV5;Q9H2K2;P54274;Q9H668;O95271;Q9NUX5;Q8IY92;Q2NKJ3;Q00577}  
 1423 [Cluster 130]GO:0005731+C cellular\_component [name] nucleolus organizer region [def] "A region of a chromosome where nucleoli form during interphase, and where genes encoding the largest rRNA precursor transcript are tandemly arrayed." [PMID  
 1424 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NRC8}  
 1425 Pathogen[ P0C214] interacts with 1 human partners:{Q9NRC8}  
 1426 Pathogen[ P03346] interacts with 1 human partners:{Q9NRC8}  
 1427 Pathogen[ Q85601] interacts with 1 human partners:{Q9NRC8}  
 1428 Pathogen[ P14079] interacts with 1 human partners:{Q9NRC8}  
 1429 Pathogen[ P03383] interacts with 1 human partners:{Q9NRC8}  
 1430 Pathogen[ P03410] interacts with 1 human partners:{Q9NRC8}  
 1431 Pathogen[ P14075] interacts with 1 human partners:{Q9NRC8}  
 1432 Pathogen[ P0C206] interacts with 1 human partners:{Q9NRC8}  
 1433 Pathogen[ P03363] interacts with 1 human partners:{Q9NRC8}  
 1434 [Cluster 131]GO:0030118+C cellular\_component [name] clathrin coat [def] "A membrane coat found on coated pits and some coated vesicles\_ consists of polymerized clathrin triskelions, each comprising three clathrin heavy chains and three clathrin light chains, linked to the membrane via one of the AP adaptor complexes." [GOC  
 1435 Pathogen[ Q2Q067] interacts with 3 human partners:{Q00610;P09497;P09496}  
 1436 Pathogen[ P0C214] interacts with 2 human partners:{P09497;P09496}

1437 Pathogen[ P03346] interacts with 4 human partners: {P09496;Q13492;P09497;Q00610}

1438 Pathogen[ Q85601] interacts with 3 human partners: {Q00610;P09496;P09497}

1439 Pathogen[ P14079] interacts with 4 human partners: {Q13492;Q00610;P09497;P09496}

1440 Pathogen[ P03383] interacts with 2 human partners: {Q00610;P09497}

1441 Pathogen[ P03410] interacts with 4 human partners: {Q00610;P09496;Q13492;P09497}

1442 Pathogen[ P14075] interacts with 3 human partners: {P09497;P09496;Q00610}

1443 Pathogen[ P0C206] interacts with 3 human partners: {Q00610;P09496;P09497}

1444 Pathogen[ P03363] interacts with 2 human partners: {Q00610;P09497}

1445 [Cluster 132]GO:0043265+C cellular\_component [name] ectoplasm [def] "Granule free cytoplasm, lying immediately below the plasma membrane." [GOC

1446 Pathogen[ Q2Q067] interacts with 1 human partners: {P54840}

1447 Pathogen[ P0C214] interacts with 1 human partners: {P54840}

1448 Pathogen[ P03346] interacts with 1 human partners: {P54840}

1449 Pathogen[ Q85601] interacts with 1 human partners: {P54840}

1450 Pathogen[ P14079] interacts with 1 human partners: {P54840}

1451 Pathogen[ P03383] interacts with 1 human partners: {P54840}

1452 Pathogen[ P03410] interacts with 1 human partners: {P54840}

1453 Pathogen[ P14075] interacts with 1 human partners: {P54840}

1454 Pathogen[ P0C206] interacts with 1 human partners: {P54840}

1455 Pathogen[ P03363] interacts with 1 human partners: {P54840}

1456 [Cluster 133]GO:0008021+C cellular\_component [name] synaptic vesicle [def] "A secretory organelle, some 50 nm in diameter, of presynaptic nerve terminals\_ accumulates in high concentrations of neurotransmitters and is secreted these into the synaptic cleft by fusion with the 'active zone' of the presynaptic plasma membrane." [PMID

1457 Pathogen[ Q2Q067] interacts with 6 human partners: {Q8WXE9;O95295;P11142;P78352;Q02410;Q9Y296}

1458 Pathogen[ P0C214] interacts with 7 human partners: {O95295;Q9Y296;P78352;Q00536;Q02410;Q8WXE9;P11142}

1459 Pathogen[ P03346] interacts with 11 human partners: {Q00536;O14908;O95295;P78352;Q14141;P11142;Q02410;Q8WXE9;Q9Y296;Q9UI14;Q9Y2J0}

1460 Pathogen[ Q85601] interacts with 7 human partners: {Q00536;O95295;Q8WXE9;Q9Y296;P11142;P78352;Q02410}

1461 Pathogen[ P14079] interacts with 12 human partners: {Q9Y296;O43759;P11142;P61421;Q02410;Q9UI14;O43612;O95295;Q5T0D9;Q8WXE9;O14908;O43761}

1462 Pathogen[ P03383] interacts with 7 human partners: {O95295;Q8WXE9;Q00536;Q9Y296;P11142;Q02410;P78352}

1463 Pathogen[ P03410] interacts with 14 human partners: {O43612;Q9Y2J0;P61421;O43759;O14908;P11142;O43761;Q02410;Q8WXE9;O95295;Q5T0D9;Q9Y296;P78352;Q9UI14}

1464 Pathogen[ P14075] interacts with 7 human partners: {Q02410;P11142;O95295;Q5T0D9;Q8WXE9;P78352;Q9Y296}

1465 Pathogen[ P0C206] interacts with 13 human partners: {P78352;Q9Y296;O43759;Q9Y2J0;Q00536;Q8WXE9;Q14141;Q9UI14;Q5T0D9;O14908;O95295;P11142;Q02410}

1466 Pathogen[ P03363] interacts with 10 human partners: {O14908;Q8WXE9;P78352;Q02410;O95295;Q9Y296;Q14141;Q99719;Q00536;P11142}

1467 [Cluster 134]GO:000139+C cellular\_component [name] Golgi membrane [def] "The lipid bilayer surrounding any of the compartments of the Golgi apparatus." [GOC

1468 Pathogen[ Q2Q067] interacts with 71 human partners: {Q8IUD2;O15027;Q9Y6D6;Q9Y6Q5;Q10567;P56377;O43747;Q9H2K2;Q6RW13;O14579;O95295;Q9H1H9;Q9P299;O75081;A8MVW5;Q8IV36;Q9UP83;O43752;O14662;P39880;P18850;O43617;P83436;P36956;Q9H8Y8;Q96CN9;P48444;Q08378;O00401;Q9Y3R5;Q96PC3;P61923;P60520;O75396;Q05084;Q9UBF2;Q14746;P61966;Q15437;P53992;Q92562;O95486;O75843;P29474;O94855;P82094;Q9BUL8;Q99550;Q9UIL1;Q13439;Q9BXS5;Q96JE7;Q9NZU7;P50570;Q8TAC9;Q99962;P53618;O95996;O95271;O15155;O60763;P60953;O95487;P35606;Q8WTW3;Q9Y678;Q9P2W9;Q15436;Q9H9E3;Q9NX95;Q9Y314}

1469 Pathogen[ P0C214] interacts with 78 human partners: {P60520;P29474;Q9UM00;P18850;P61923;Q14746;Q9P299;Q8N2H4;Q6RW13;P53992;Q9H9E3;O95295;Q8TAC9;O14579;P53618;A8MVW5;Q8IV36;P35606;P48444;P83436;P60953;Q9BUL8;Q08378;O43617;Q99962;Q15436;Q92562;O75843;Q96CN9;P82094;Q10567;Q9H8Y8;P10124;Q9UBF2;O95487;P49257;Q08AM6;P56377;Q15437;Q9BZQ4;Q9BQQ3;Q96PC3;Q9UIL1;Q99550;Q9NZU7;Q9NX95;O43752;O60763;Q9H2K2;Q9HD26;P39880;O43747;Q9NV92;Q9Y6Q5;Q13439;Q9UP83;O75396;Q9Y6D6;Q9UJH9;P61966;O00401;P50570;Q05084;Q96EK6;Q9Y3R5;O95271;Q96JE7;Q8IUD2;Q9Y678;Q9BXS5;O15155;O15027;O75081;O95486;Q8WTW3;Q9P2W9;O94855;Q9Y314}

1470 Pathogen[ P03346] interacts with 93 human partners: {O95166;Q13439;Q96CN9;P61966;O43752;Q14746;P50570;Q9P2W9;O15027;Q9UP83;P29474;P36956;O95295;O43747;Q9UIL1;Q96MW5;P60520;Q12772;P82094;P49257;P56377;Q99962;A8MVW5;Q9NZU7;Q8IV36;Q14789;Q9Y6D5;Q969X5;Q8WTW3;Q8IUD2;Q9BXS5;Q9Y678;Q9NX95;P53618;Q9H1H9;Q13190;Q08378;P60953;O75396;Q9P299;O14579;Q05084;Q92562;Q9NV92;Q53HI1;O94855;P18850;Q9Y371;Q9Y2V7;Q9Y3R5;Q9Y6D6;Q9H2K2;Q10567;O75843;P48444;P20340;Q15436;Q9H9E3;Q8TAC9;Q15437;Q9HD26;Q96JE7;Q8N2H4;Q9UBF2;Q9H8Y8;Q96PC3;P61923;O60763;O95996;O95486;Q9BQQ3;P83436;P36405;O95271;Q99550;Q9HC24;O95487;O14617;Q6RW13;P39880;Q8TEY5;Q9Y6Q5;P35606;O00401;O15155;O14662;Q9BUL8;P53367;O75081;P53992;O43617;Q86Y82;Q9Y314}

1471 Pathogen[ Q85601] interacts with 84 human partners: {O00401;Q96CN9;Q14746;O75843;Q9NZU7;O15027;P48444;Q08AM6;P36405;Q8N2H4;Q9BQQ



- 3;O75396;O14579;O95487;Q13439;O95295;Q8TAC9;O95166;O60763;Q96JE7;Q9BUL8;Q9UP83;Q9BXS5;P56377;Q99962;A8MVW5;Q9P299;O15155;Q8IV36;Q9UHF9;Q12772;O43747;P61923;P83436;Q9H1H9;Q08378;Q9NP61;Q92562;Q10567;Q9P2W9;Q15436;O43617;Q8WTW3;O43752;Q8N6H7;Q9H2K2;Q9H9E3;Q9UM00;Q15437;Q9UBF2;Q9HD26;P36956;P49257;Q9Y678;P50570;P18850;Q99550;Q6RW13;Q96EK6;O95486;P29474;Q96PC3;O95996;P53618;P60520;P60953;P82094;Q9Y6D6;Q9H8Y8;Q9Y3R5;P61966;P39880;Q9Y6Q5;O95271;Q9NX95;O94855;P35606;Q9U1L1;Q8IUD2;O14662;P53992;Q05084;O75081;Q9Y314}
- 1472 Pathogen[ P14079] interacts with 131 human partners: {Q5SRI9;O94923;Q9NY59;P0CG08;O95070;Q96G79;O95166;Q14789;Q6ZVE7;Q14746;Q92562;P49257;P61923;O15027;Q9Y6Q5;P61966;Q05084;Q9BXS5;O14828;O43505;O75072;P83436;Q5VSG8;Q24JP5;Q8NFM7;O95487;Q9NXE4;O95271;Q9NX95;O15258;Q13021;P35606;Q9Y314;O00400;Q10567;P39880;Q9Y6D5;Q6RW13;P56377;Q9Y678;Q9HC24;Q9BXS4;O94855;Q08378;Q9U1L1;A8MVW5;P53992;Q13439;Q9BUL8;Q9H2K2;Q8IUD2;Q9Y371;O15155;Q96JE7;P50570;O75843;Q9UHF9;O75396;Q9Y2V7;Q12772;Q9UL01;Q9HD26;P82094;Q3V5L5;Q9H8Y8;P27544;P36405;Q9Y287;Q8NHG7;P60520;Q8WTW3;Q8TAC9;Q9UK28;Q969X5;Q9BZQ4;Q9P299;Q8IV36;P61158;Q9Y6D6;O95996;Q9UBF2;Q9UP83;O00559;Q9H1H9;O14653;Q53H11;P10124;Q7Z5B4;Q9BQQ3;O95295;O14662;B7ZAQ6;Q8N2H4;P48444;P18850;Q96MW5;O75081;O43747;Q9UM00;O43752;O15260;O14579;Q92896;Q9H9E3;A8MW95;Q9Y3E0;Q9H0V9;Q96EK6;Q9NV92;O14617;O95486;Q8TBQ9;Q2TAP0;Q7Z5G4;Q9Y3R5;Q96PC3;Q9P2W9;Q6UWH4;Q9NRX6;P36956;O43617;Q96CN9;Q6UWI2;Q9UBM8;Q9NZU7;Q6AZY7;Q99550;O60763;Q99962;O00401;Q96FM1}
- 1473 Pathogen[ P03383] interacts with 54 human partners: {Q6RW13;P56377;Q14746;P29474;Q9H9E3;O14579;Q9UP83;P53618;P83436;Q9Y678;O95487;Q13439;O95295;Q9HD26;Q8TAC9;Q10567;P60953;A8MVW5;Q8IV36;Q9NX95;O95486;Q9Y6D6;Q9U1L1;Q15436;Q8N2H4;Q96CN9;Q9H1H9;Q8WTW3;Q8NHG7;O00401;Q05084;Q9Y3R5;O75081;O75843;O43747;Q15437;O94855;O43617;Q9UBF2;O15027;P10124;P39880;Q9BUL8;Q96JE7;P53992;P82094;O43752;Q9UM00;P18850;Q9BXS5;O95271;Q9H8Y8;Q8IUD2;Q9Y314}
- 1474 Pathogen[ P03410] interacts with 136 human partners: {Q9HC24;Q92562;Q9Y6Q5;P82094;Q96PC3;P36956;O14828;Q9H0V9;Q5VSG8;Q9BXS5;Q13190;Q3V5L5;Q9BQQ3;Q9BRV3;Q8TAC9;Q9UP83;Q7Z5B4;Q96FM1;P49257;Q8TBQ9;O94855;Q969X5;B7ZAQ6;P53992;Q9Y2V7;Q9H1H9;Q9P299;O43747;O75843;Q9BUL8;Q8IV36;O00400;P60520;P48444;P10124;Q7Z5G4;P53367;Q10567;P35606;P36405;O00401;Q08378;Q9P2W9;O14662;O14579;Q9Y287;P50570;Q96EK6;P27544;Q24JP5;Q9Y3E0;Q8N2H4;Q9NV92;Q05084;O14617;O15258;Q9NXE4;O00559;O95249;O95295;Q5SRI9;Q9HD26;Q92896;O95166;Q53H11;Q9UHF9;Q96MW5;Q15436;P29474;O60763;Q9H8Y8;Q08AM6;Q8IUD2;Q6UWI2;O75396;O95996;Q15437;Q9U1L1;P0CG08;Q9UK28;Q12772;O15155;Q9NP61;O95271;Q9Y678;Q99550;Q14789;O95486;Q9Y371;Q9Y6D6;P53618;A8MVW5;P61923;Q9Y6D5;Q96JE7;Q8WTW3;Q9NZU7;P39880;Q6RW13;P60953;Q14746;O75081;Q6UWH4;O43752;Q99962;O15027;Q96G79;O14653;Q9H2K2;P83436;Q9BXS4;Q9UL01;Q6ZVE7;Q13439;O15260;Q9Y314;O43617;Q9UM00;P61966;A8MW95;Q9BZQ4;P18850;Q8NFM7;Q6AZY7;Q9H9E3;P56377;Q8NHY0;O95070;Q9NX95;O43505;O95487;Q8NHG7;Q2TAP0;Q5MNZ9;Q9UBF2;Q13021}
- 1475 Pathogen[ P14075] interacts with 65 human partners: {P60953;P29474;O43617;Q14746;Q96JE7;Q5SRI9;Q9H1H9;Q9BUL8;Q8N2H4;Q9H9E3;O95295;O43752;P82094;A8MVW5;Q9UBF2;Q8IV36;Q9HD26;Q8IUD2;O15027;Q9Y6D6;P53992;P39880;O75081;O95487;O00401;O43505;Q9UP83;Q15437;Q8NHG7;Q9UHF9;Q2TAP0;P53618;Q9H8Y8;O43747;Q15436;Q9U1L1;Q9Y3R5;Q9UK28;Q14789;Q13439;Q05084;Q9Y678;Q9NV92;O75843;Q8TAC9;P56377;O94855;Q9BXS5;P10124;Q53H11;Q6RW13;Q9Y287;O95271;Q9NX95;Q96EK6;O95486;Q6UWI2;Q10567;Q96CN9;P83436;Q9UM00;Q8WTW3;P18850;O14579;Q9Y314}
- 1476 Pathogen[ P0C206] interacts with 115 human partners: {Q13439;O95271;O14662;Q14789;Q5SRI9;O14579;Q9Y678;Q15437;Q9UM00;P83436;O14828;O75396;Q9Y2V7;Q9Y6Q5;P53618;Q9P299;O43747;Q9Y287;Q9H9E3;O94855;Q9UHF9;Q10567;O14653;Q92562;P18850;Q7Z5B4;Q9NV92;Q9Y6D6;O15258;Q8NHG7;O43752;O75081;P61966;Q9U1L1;O95070;Q9H8Y8;Q8IUD2;Q99550;Q99962;Q14746;P36956;Q13021;Q9Y3R5;Q9H1H9;Q9NZU7;O95996;Q9NP61;Q9UL01;Q9NX95;Q8N2H4;A8MW95;A8MVW5;Q9UK28;Q8IV36;Q9UP83;Q9BXS5;O15155;Q6RW13;O95486;Q8WTW3;Q6ZVE7;Q53H11;Q9Y6D5;P35606;Q96JE7;P49257;O95487;O60763;Q9BZQ4;P48444;Q9BUL8;Q08378;Q6UWH4;O00401;P60520;P60953;Q96EK6;O95295;O43617;P36405;P29474;P0CG08;O15260;Q9UBF2;Q9HC24;Q969X5;Q96CN9;O14617;O75843;Q6UWI2;P39880;P53992;Q9BQQ3;Q8TAC9;Q8N6H7;Q96PC3;O15027;Q9H2K2;Q9HD26;P10124;Q12772;O95166;Q9P2W9;Q05084;P50570;Q99640;P82094;P56377;Q2TAP0;O43505;P61923;B7ZAQ6;Q08AM6;Q9Y314;Q15436}
- 1477 Pathogen[ P03363] interacts with 61 human partners: {O60763;Q9BUL8;Q14789;P29474;O75081;Q99962;O95996;Q9UP83;O43747;P48444;Q9Y3R5;Q13439;Q9Y678;P18850;Q99550;P50570;Q9H9E3;Q15436;P83436;O14579;O95486;P53618;P60520;Q9H2K2;Q9BXS5;Q9P299;P61923;Q14746;Q9P2W9;A8MVW5;Q8IV36;Q05084;Q9NZU7;O95271;Q08378;Q8WTW3;Q9H8Y8;O95295;P35606;O14662;O00401;Q9U1L1;Q9UBF2;P53992;O75843;O95487;O43617;Q9H1H9;P82094;Q9Y6D6;O43752;P39880;P60953;Q8IUD2;O95166;Q9HD26;O94855;Q10567;Q96CN9;Q9Y314;Q9NX95}
- 1478 [Cluster 135]GO:0030014+C cellular\_component [name] CCR4-NOT complex [def] "A large multimeric transcription factor complex that can regulate transcription positively or negatively\_ consists of a core complex plus additional proteins\_ may interact with other proteins to control initiation of transcription. In Saccharomyces the core complex comprises Ccr4p, Caf1p, Not1p, Not2p, Not3p, Not4p, and Not5p\_ Caf4p, Caf16p, and several less well characterized proteins." [PMID
- 1479 Pathogen[ Q2Q067] interacts with 2 human partners: {Q86TB9;Q9UIV1}
- 1480 Pathogen[ P0C214] interacts with 2 human partners: {Q9UIV1;Q86TB9}
- 1481 Pathogen[ P03346] interacts with 2 human partners: {Q9UIV1;Q86TB9}
- 1482 Pathogen[ Q85601] interacts with 2 human partners: {Q9UIV1;Q86TB9}
- 1483 Pathogen[ P14079] interacts with 2 human partners: {Q86TB9;Q9UIV1}
- 1484 Pathogen[ P03383] interacts with 2 human partners: {Q9UIV1;Q86TB9}
- 1485 Pathogen[ P03410] interacts with 2 human partners: {Q9UIV1;Q86TB9}

1486 Pathogen[ P14075] interacts with 2 human partners:{Q86TB9;Q9UIV1}  
1487 Pathogen[ P0C206] interacts with 2 human partners:{Q86TB9;Q9UIV1}  
1488 Pathogen[ P03363] interacts with 2 human partners:{Q9UIV1;Q86TB9}  
1489 [Cluster 136]GO:0005763+C cellular\_component [name] mitochondrial small ribosomal  
subunit [def] "The smaller of the two subunits of a mitochondrial ribosome." [GOC  
1490 Pathogen[ Q2Q067] interacts with 19 human  
partners:{P82921;P82933;Q96EL2;P82912;Q9Y676;Q9BYN8;P82663;Q9NVS2;Q9Y291;Q9Y3D3;Q9Y2R  
5;Q9Y2Q9;P82650;P82914;Q9Y6G3;Q9Y3D5;P82909;P82673;Q92665}  
1491 Pathogen[ P0C214] interacts with 19 human  
partners:{Q9Y3D5;Q96EL2;P82912;Q9Y676;Q9Y2Q9;P82914;Q92665;P82663;P82921;Q9BYN8;P8290  
9;Q9Y6G3;Q9Y291;Q9Y2R5;P82673;P82933;P82650;Q9Y3D3;Q9NVS2}  
1492 Pathogen[ P03346] interacts with 19 human  
partners:{Q9NVS2;Q96EL2;P82912;P82933;P82909;P82650;Q9Y2R5;P82914;Q9Y676;P82921;Q9Y6G  
3;Q9Y3D5;Q9Y3D3;P82663;Q9Y291;Q9BYN8;P82673;Q92665;Q9Y2Q9}  
1493 Pathogen[ Q85601] interacts with 18 human  
partners:{Q96EL2;P82912;P82933;Q9Y3D5;P82921;Q92665;Q9BYN8;Q9Y3D3;Q9Y291;Q9Y6G  
3;P82909;Q9NVS2;Q9Y2Q9;Q9Y676;P82650;P82663;P82914}  
1494 Pathogen[ P14079] interacts with 19 human  
partners:{P82933;Q9Y6G3;Q9Y291;Q9Y2R5;Q9Y3D3;P82921;P82650;P82912;Q92665;Q9Y2Q9;Q9BYN  
8;P82909;P82673;Q9Y676;Q9NVS2;P82663;Q96EL2;Q9Y3D5;P82914}  
1495 Pathogen[ P03383] interacts with 18 human  
partners:{Q96EL2;P82912;P82933;P82914;Q92665;Q9Y6G3;Q9BYN8;Q9NVS2;Q9Y2Q9;Q9Y2R5;P8290  
9;P82663;Q9Y3D5;P82921;P82650;Q9Y676;Q9Y291;Q9Y3D3}  
1496 Pathogen[ P03410] interacts with 19 human  
partners:{Q9Y2Q9;P82663;P82909;Q92665;P82650;Q9BYN8;Q9Y3D5;Q9Y676;Q9Y291;Q9Y6G3;P8267  
3;P82912;Q96EL2;P82933;P82914;P82921;Q9NVS2;Q9Y2R5;Q9Y3D3}  
1497 Pathogen[ P14075] interacts with 18 human  
partners:{Q96EL2;P82921;P82912;Q9Y2Q9;Q9Y2R5;Q9Y3D3;P82650;Q9Y3D5;P82909;Q9Y676;Q9266  
5;P82663;Q9Y291;P82914;Q9BYN8;P82933;Q9Y6G3;Q9NVS2}  
1498 Pathogen[ P0C206] interacts with 19 human  
partners:{Q9Y291;Q9Y3D5;Q96EL2;Q9Y3D3;P82914;Q92665;Q9Y676;P82673;Q9BYN8;Q9Y6G3;Q9NVS  
2;P82909;P82933;P82663;P82650;Q9Y2Q9;Q9Y2R5;P82912;P82921}  
1499 Pathogen[ P03363] interacts with 18 human  
partners:{P82650;Q9Y2R5;Q96EL2;P82921;P82914;Q9NVS2;Q9Y3D5;Q9Y2Q9;P82912;P82663;Q9Y6G  
3;P82933;Q92665;Q9Y676;Q9Y3D3;P82909;Q9Y291;Q9BYN8}  
1500 [Cluster 137]GO:0005874+C cellular\_component [name] microtubule [def] "Any of the  
long, generally straight, hollow tubes of internal diameter 12-15 nm and external  
diameter 24 nm found in a wide variety of eukaryotic cells\_ each consists (usually) of 13  
protofilaments of polymeric tubulin, staggered in such a manner that the tubulin monomers  
are arranged in a helical pattern on the microtubular surface, and with the alpha/beta  
axes of the tubulin subunits parallel to the long axis of the tubule\_ exist in  
equilibrium with pool of tubulin monomers and can be rapidly assembled or disassembled in  
response to physiological stimuli\_ concerned with force generation, e.g. in the spindle."  
[ISBN  
1501 Pathogen[ Q2Q067] interacts with 114 human  
partners:{Q9BTW9;Q8WW24;Q96TC7;Q8WZ33;Q8IXJ6;P50402;Q9BTV5;Q7Z4H7;P78559;Q9Y266;Q96RT  
8;P63172;Q14980;O43663;Q7Z460;Q8TF09;Q15596;Q96R06;Q9NUL3;Q9H1H9;Q14204;Q5SW79;O94927  
;Q9BXW4;Q8WWK9;Q969S2;P63167;Q9P1Y5;Q86XR8;Q96AQ6;Q9HC77;Q9NVX0;O75347;Q9NXR1;O00423;Q  
96SN8;P42704;Q9P258;Q08AD1;Q1MSJ5;Q96N16;Q5BJF6;Q9NP97;Q9NYZ3;Q99871;Q96DB5;Q9NQS7;Q  
14203;Q12959;P06746;Q9Y448;O94811;P17987;Q13561;Q8WWW0;Q92624;Q96RT7;Q9BSJ2;Q5JR59;P5  
0991;Q9BT25;Q96Q89;Q9H6D7;Q1W6H9;Q9H0B6;Q9ULW0;P50570;Q02241;O00139;O75122;Q07866;Q9N  
RI5;Q8IX90;P23258;Q9UPY8;Q5T5Y3;O95996;Q96BD8;Q9ULG1;Q13425;Q9NS23;Q13409;Q9BXS6;Q142  
44;Q9UGJ1;O95613;Q96FJ2;Q49MG5;Q8N4C6;Q99689;Q9BVN2;Q86VS8;Q92597;P78371;Q66K74;Q96CS  
2;P51808;P27816;Q86WH2;Q96M29;Q15691;Q8WVK7;Q96ED9;P49754;Q6Q759;Q9NPA3;O15392;Q68CZ6  
;O14576;Q9BRK4;Q9BSH3;Q8IYK2;Q9ULD2;Q96CW5}  
1502 Pathogen[ P0C214] interacts with 116 human  
partners:{Q07866;O94927;P49754;Q9BSJ2;Q99832;Q08AD1;P49368;Q1MSJ5;Q8WWW0;Q92624;O7534  
7;Q9NRI5;P78371;Q02241;P06746;Q9NS23;Q9BRK4;Q96ED9;P48643;O94811;Q14203;Q7Z4H7;Q5SW79  
;Q9BTW9;Q9P1Y5;Q96SN8;Q8TF09;Q96R06;Q9BXS6;Q9NPA3;Q9BSH3;Q9BXW4;Q8WW24;P23258;P42704;  
Q9HC77;O00423;Q14204;Q9ULG1;P51808;O00139;Q96CW5;Q15691;Q96TC7;Q9Y266;Q96RT7;Q9UGJ1;Q  
5JR59;P27816;Q96CS2;Q14980;Q9H0B6;O75122;Q86WH2;Q92597;Q86VS8;Q96Q89;Q13425;Q96BD8;Q8  
IYX8;Q14244;Q9P258;Q86XR8;P50402;Q9BT25;Q9NUL3;Q9ULW0;O43663;Q99689;Q9ULD2;Q5T5Y3;Q96  
DB5;Q96RT8;P78559;Q12959;Q99871;Q96AQ6;Q1W6H9;O15392;Q9H6D7;Q9UPY8;Q8IX90;Q9BVN2;P631  
72;O14576;Q7Z460;Q9NYZ3;Q96FJ2;Q8IXJ6;Q9BTV5;Q9NQS7;Q68CZ6;Q9NP97;Q5BJF6;P17987;Q8WWK  
9;Q8WZ33;P50570;O95613;P50991;Q15596;Q8N4C6;Q13409;Q9NXR1;Q9NVX0;Q9Y448;Q13561;Q9H492  
;Q96M29;Q49MG5;Q66K74;Q8WVK7;P63167;Q6Q759;Q8IYK2;Q96N16}  
1503 Pathogen[ P03346] interacts with 138 human  
partners:{Q95166;Q13425;Q5T5Y3;Q8IYK2;Q9NRI5;Q15058;Q9BT25;Q96FJ2;Q9BXS6;Q9H6D7;P5057  
0;Q9NSK0;Q9Y283;O14576;Q86XR8;O15392;Q86VS8;Q12840;Q96N16;Q5JR59;P23258;Q99871;Q96RT8  
;Q7Z4H7;Q9BSH3;P49754;Q96R06;Q96AQ6;O00139;P51808;Q15691;Q99689;Q08AD1;Q9ULG1;Q9UIF3;  
Q8WZ33;P78371;Q9HC77;Q99426;Q66K74;Q9NXR1;Q9H1H9;Q8IXJ6;Q9NUL3;Q96M29;Q96TC7;Q9P1Y5;Q  
9P258;Q14204;Q14203;Q96CW5;Q8IYX8;Q8TF09;Q14980;O75347;Q9H0R8;Q9BRK4;Q15555;Q9Y266;Q9  
69S2;Q9NVX0;Q9ULW0;O00423;Q92597;Q15596;Q96SN8;P42704;P50991;Q68CZ6;Q9UGJ1;P49368;Q6P  
597;Q8IZS6;Q9H492;Q9BTV5;Q5JSH3;Q9NQS7;Q8N0X2;Q96Q89;P78559;Q9ULD2;P63172;Q5BJF6;P111  
37;O94811;O95996;P30622;O75122;P50402;Q02241;P27816;Q8IX90;Q9Y2I6;Q8WWW0;Q96ED9;Q1340  
9;Q96DB5;Q14244;Q96CS2;Q9NYZ3;Q9BXW4;Q9Y448;Q8WWK9;P63167;Q9BVN2;Q9BSJ2;Q7Z460;Q9UHD8

- 1504 Pathogen[ Q85601] interacts with 135 human partners: {Q9H492; Q13409; P27816; Q9NP97; Q02241; P51808; Q86VS8; Q8WVK9; Q6Q759; Q969S2; Q5JSH3; Q9H6D7; Q9BT25; Q99871; Q9NQS7; Q96RT8; O95166; Q14244; Q9UBP0; Q8WWW0; Q9P258; Q96SN8; Q9Y283; Q7Z4H7; Q9NVX0; Q9H0R8; P30622; Q49MG5; Q9P1Y5; Q9HC77; Q9BVN2; Q66K74; Q9BTW9; Q14204; Q9BXS6; Q9H1H9; Q9BSH3; Q8IZS6; O15392; Q5BJF6; Q9Y2I6; Q9NS23; Q14203; P49754; P17987; Q96CW5; Q9ULW0; Q8WZ33; Q15596; P63172; Q96R06; Q96015; Q12840; O43663; P23258; Q9BXF9; O75122; O14965; Q9Y266; Q08AD1; Q9BXW4; Q86XR8; Q96Q89; Q9BSJ2; Q92624; Q8WW24; Q15555; Q6P597; P50991; O00423; Q9Y448; O94811; Q9UGJ1; Q8IXJ6; Q96M29; Q9NQC7; Q9BRK4; Q15691; O75347; Q15058; P42704; Q13425; Q96BD8; P50570; Q5T5Y3; Q1MSJ5; Q9BW30; O14576; Q9NYZ3; Q9BVA0; Q9NPA3; Q99689; Q9ULG1; O94927; P50402; Q8IX90; Q9NUL3; O95996; Q14980; Q5JR59; Q12959; Q8WVK7; Q96CS2; Q9BTV5; Q9NRI5; P06746; Q7Z460; Q5SW79; Q96TC7; Q92597; P78559; O95613; P78371; Q8N4C6; P48643; Q9NXR1; Q9UPY8; Q86WH2; Q96ED9; Q9GZM8; Q8TF09; Q1W6H9; Q96AQ6; P63167; Q07866; O00139; Q9H0B6; Q9ULD2; Q96N16; Q68CZ6; Q96DB5; P51955; Q8IYX8; Q96RT7; Q13561}
- 1505 Pathogen[ P14079] interacts with 175 human partners: {Q15691; Q14980; Q8TF09; Q9BTW9; P48643; O95166; Q8WZ33; Q9UPY8; Q9ULG1; Q9BTV5; P63172; Q15596; Q08AD1; Q9UJC3; Q9NS23; Q9NPA3; Q7Z460; P51808; Q8IX90; O15553; Q6ZMV9; Q9BVN2; Q07866; Q8IYK2; Q96R06; O43597; Q96FJ2; Q86VS8; Q9H492; Q12840; Q8N0X2; Q99871; Q96ED9; Q66K74; Q9NYZ3; Q9UGJ1; Q02241; P50991; Q9NVX0; Q14204; O15392; Q1MSJ5; P42704; Q9Y266; Q9BXF9; Q6Q759; P78371; Q92624; O95922; Q9NRI5; Q7Z4S6; P68363; Q14244; Q1W6H9; Q9ULW0; P50990; O00423; Q96M29; Q92597; Q9Y448; Q9Y4R7; Q8IWN7; Q9BXS6; Q96N16; Q9GZS0; P50570; Q86WH2; Q9NP97; A6PVL3; O15066; P56715; A6PVC2; P78559; Q99661; O43663; Q5BJF6; Q15814; Q9BSH3; P51955; Q99689; Q2M3G4; Q8N4C6; Q96Q89; Q9UI46; Q05BV3; Q99426; O60282; Q5JSH3; Q9NUL3; Q96RT8; P17987; O95996; O00139; Q15555; Q15058; Q8WVK7; P23258; O94811; Q9H1H9; Q969S2; Q96RT7; Q9H6D7; Q96AQ6; Q9H0R8; Q9P258; Q13409; Q13561; Q49MG5; Q5SW79; Q9Y4F5; Q9BSJ2; Q9NUJ3; Q9GZM8; Q8WW24; Q5T5Y3; Q96JE9; Q96DB5; Q8IXJ6; Q9ULD2; Q68CL5; Q969V4; Q8WVK9; Q86Y91; P06746; Q5T7B8; Q9NQS7; O95613; Q9Y283; P63167; Q9P1Y5; Q6ZMW3; Q9BW30; Q9UIF3; Q7Z4H7; Q9BT25; O75347; Q5JR59; P11137; Q68CZ6; Q9NSK0; P49754; O14576; P50402; Q8IZS6; Q86XR8; Q9NXR1; Q96015; O95235; P49368; Q9BY60; Q9Y2I6; Q96TC7; Q96BD8; Q9BVA0; O75122; Q32P44; O14965; Q9H0B6; Q8IYX8; Q9NQC7; Q9HC77; Q9BXW4; Q96SN8; Q8WWW0; Q14203; P27816; Q6P597; O94927; P30622; Q96LZ7; Q96CW5; P10636; Q8IUZ0; Q96CS2}
- 1506 Pathogen[ P03383] interacts with 87 human partners: {Q14244; Q9BRK4; Q9NQS7; Q86XR8; Q5JR59; Q8WZ33; Q7Z460; P06746; Q9BSJ2; Q96TC7; Q1MSJ5; Q96BD8; Q02241; P51808; Q15691; Q8WVK9; Q15596; Q9NVX0; Q96FJ2; Q9NRI5; Q9P258; Q9BXS6; P63172; Q14203; Q96SN8; Q7Z4H7; Q96AQ6; O94811; Q99689; Q96CW5; Q86WH2; Q9HC77; Q9H0B6; Q96M29; P49754; Q92597; Q96R06; Q96DB5; Q9H1H9; Q99871; Q96CS2; P27816; O94927; Q96N16; O75347; Q8IYK2; Q9NP97; Q9P1Y5; Q68CZ6; Q8WVK7; Q8WW24; Q96Q89; Q9BT25; Q86VS8; Q9NYZ3; Q07866; Q5BJF6; Q96ED9; Q9Y266; P50402; P78371; O14965; Q8IX90; Q14980; Q5T5Y3; Q6Q759; Q08AD1; Q9Y448; P42704; Q9H6D7; Q5SW79; P78559; Q8TF09; Q9ULW0; O95613; Q13561; O43663; Q49MG5; Q8N4C6; Q92624; Q9NUL3; P63167; Q9NPA3; Q9UPY8; Q13425; Q9BVN2; Q1W6H9}
- 1507 Pathogen[ P03410] interacts with 176 human partners: {Q96AQ6; Q9BVN2; Q9Y6G9; Q96LZ7; Q8IX90; Q7Z460; Q86Y91; Q14204; Q96TC7; O15392; Q8IXJ6; Q5JSH3; Q8IZS6; Q9Y4R7; Q96Q89; P17987; Q5JR59; Q6ZMW3; Q68CL5; P49368; Q9UJC3; P51808; Q99832; Q15058; Q6Q759; A6PVL3; P11137; Q08AD1; Q8IYK2; Q07866; P48643; Q13409; P30622; Q9H6D7; Q2M3G4; Q9NP97; Q13561; P27816; O43597; Q9H0B6; Q96DB5; Q9Y2I6; O00139; Q9NXR1; Q9HC77; Q8TF09; Q9BXF9; Q9GZM8; Q9UI46; Q32P44; Q9H1H9; Q8IUZ0; Q8N0X2; Q12959; Q9P1Y5; O60282; Q7Z4S6; Q8WVK9; Q96SN8; O94811; Q9ULG1; Q13425; P63172; Q9NSK0; Q9NS23; P06746; P63167; P50570; Q96N16; Q86VS8; Q9UIF3; Q9Y283; Q15814; Q9NYZ3; Q8TCX1; Q96R06; Q96JE9; Q9BXS6; Q12840; Q6P597; Q8IYX8; Q68CZ6; Q96CS2; Q9BTV5; O14965; O95166; Q5T5Y3; O60333; Q92624; Q8WZ33; Q14576; Q9Y448; Q14980; Q6ZMV9; Q15555; Q15691; Q9H0R8; Q9BSH3; O95996; Q9H492; Q9NPE6; P50990; Q9BW30; Q96ED9; Q9BTW9; Q9ULD2; Q9BXW4; Q9NVX0; P42704; Q8WVK7; Q9BVA1; Q8N4C6; Q8WWW0; Q5BJF6; Q9UPY8; Q9UHD8; P49754; Q86WH2; Q66K74; Q9BSJ2; O94927; P50402; Q9NUL3; P78559; P10636; Q15596; Q9NUJ3; O75347; Q9NRI5; Q96RT8; P23258; Q9ULW0; P68363; P78371; Q9BY60; Q1MSJ5; O95922; Q969S2; P33176; Q92597; Q9Y266; Q96CW5; Q99871; Q96BD8; O0423; Q96RT7; Q9Y4F5; Q5SW79; A6PVC2; O95613; Q99426; Q8IWN7; Q9GZS0; Q9P258; Q1W6H9; Q14244; O75122; Q969V4; P56715; Q96M29; Q9BT25; Q9NPA3; Q49MG5; Q05BV3; Q7Z4H7; Q9UGJ1; O43237; Q5T7B8; Q9BVA0; P50991; O96015; Q14203; Q02241; O43663; Q9NQS7; Q99689}
- 1508 Pathogen[ P14075] interacts with 89 human partners: {P42704; Q99871; Q96AQ6; Q9NP97; O94811; Q6Q759; Q9Y266; Q9NUJ3; Q9H1H9; Q1W6H9; Q9NUL3; Q02241; O43663; O75347; Q7Z4H7; Q49MG5; Q9NQS7; Q96R06; Q96N16; Q9BVN2; P51808; Q8WVK7; Q96JE9; Q13425; Q7Z460; P78559; Q13561; Q68CZ6; Q9HC77; P06746; Q96TC7; Q9BXS6; Q96SN8; Q8TF09; P78371; Q96BD8; P63172; P50402; Q9BT25; Q9NRI5; Q5JR59; Q92624; Q9ULW0; Q9UPY8; Q5SW79; O00139; Q5BJF6; P49754; Q96FJ2; Q9P258; Q86XR8; O14965; Q9NPA3; Q86WH2; Q15691; Q5T5Y3; Q96CS2; Q8IYK2; Q96DB5; Q8IX90; Q9BRK4; Q9NVX0; Q8WZ33; Q8WVK9; O94927; Q92597; Q86VS8; O95613; Q14203; Q96M29; Q07866; Q8N4C6; Q9H0B6; Q9NYZ3; Q14980; Q1MSJ5; Q9BSJ2; Q9H6D7; Q96Q89; P27816; Q9P1Y5; Q9Y448; P63167; Q96CW5; Q15596; Q96ED9; Q14244; Q99689; Q08AD1}
- 1509 Pathogen[ P0C206] interacts with 155 human partners: {Q9NQC7; Q96TC7; Q5SW79; Q92597; Q9NPA3; P48643; Q86XR8; Q86WH2; P50402; Q96DB5; Q9BVA0; Q96SN8; P56715; Q9NP97; Q9BXW4; Q9HC77; O14576; Q96Q89; Q9UBP0; Q5BJF6; Q9ULW0; Q96RT7; Q08AD1; P51955; Q9BTV5; Q96CW5; Q9H492; Q96JE9; Q9BTW9; P49754; P63167; Q15691; O94811; P78559; Q5T5Y3; Q9UIF3; Q9Y448; Q9BT25; Q8WZ33; P06746; Q8TF09; Q6P597; P50991; Q5JR59; P17987; Q9H1H9; P30622; O43237; O95996; P10636; Q02241; Q9GZM8; Q96N16; Q13409; Q8IX90; Q9UGJ1; Q66K74; Q15814; Q86VS8; Q9Y283; Q92624; Q96ED9; Q9P1Y5; Q9NVX0; Q14244; Q99689; O75122; Q68CL5; Q86Y91; Q99426; P11137; P27816; Q96BD8; Q14204; Q9H0B6; Q9UPY8; O95613; Q8IWN7; Q9ULG1; Q13425; P51808; O95922; Q8IYX8; Q96AQ6; Q9Y6G9; Q9NRI5; Q8WWW0; Q8IZS6; Q96CS2; O43663; Q7Z4H7; Q9ULD2; Q2M3G4; Q9NUL3; O94927; Q49MG5; O15392; O43597; Q12840; Q9NSK0; P23258; O00139; Q8IXJ6; Q9NUJ3; Q9P258; Q13561; Q9H0R8; Q969S2}

;Q9BXF9;P49368;Q9H6D7;Q15058;Q99871;Q15596;P42704;Q9NXR1;Q96M29;Q15555;Q5JSH3;Q9UJC3;Q9BXS6;Q1MSJ5;Q9NYZ3;O75347;O14965;Q14980;Q8N4C6;Q7Z460;Q9NS23;Q9NQS7;Q14203;Q6Q759;P63172;Q8IYK2;O00423;Q9BW19;Q8WWK9;Q9BSJ2;Q68CZ6;Q12959;Q9Y266;O96015;O95166;P78371;Q8WVK7;Q9BSH3;P50570;Q9BW30;Q8WW24;Q07866;Q96LZ7;Q9Y2I6;Q1W6H9;Q9BY60;Q9BVN2}

1510 Pathogen[ P03363] interacts with 165 human partners: {Q5BJF6;Q6ZMW3;P49754;Q12959;Q86VS8;Q9Y2I6;Q9UDT6;P11137;O75347;Q9BSH3;Q8N0X2;Q96DB5;Q14244;P56715;Q2M3G4;P63167;Q9HC77;Q96ED9;O95996;Q66K74;Q9ULG1;Q2VIQ3;Q8WZ33;P33176;P78559;Q9BRK4;O94811;Q96BD8;Q9H492;Q8IYK2;Q9GZS0;Q1MSJ5;Q969V4;Q13561;Q8WWK9;Q14980;Q9Y266;Q9BXW4;Q15691;Q9ULW0;Q92597;Q9NUL3;O95922;Q9HC35;P50570;O95613;P42704;P68363;O94967;Q14204;Q9H6D7;Q02241;Q9P258;Q9BT25;Q8WVK7;Q9BXS6;Q96M29;Q8NHY3;Q15596;Q49MG5;Q7Z4S6;Q07866;Q14807;Q8IX90;O00423;Q96TC7;Q13425;P50991;Q6ZMV9;Q5JR59;Q8IZS6;O60282;Q13748;Q9H0R8;Q9BW30;Q9H0B6;P30622;Q9UPY8;P27816;Q96R06;Q68CZ6;Q8TF09;Q9BXF9;O94927;P63172;Q9P1Y5;Q9NSK0;Q99426;Q9NQS7;P06746;Q96RT8;Q9NVX0;Q32P44;Q96AQ6;Q15814;Q9BTW9;Q5T7B8;P17987;Q7Z460;Q9UHD8;Q9NYZ3;Q92624;Q9Y283;Q9Y4F5;Q96CS2;Q99871;Q13409;P51808;P50402;O15066;Q9NS23;Q9BY60;Q9BVN2;Q9UIF3;Q96RT7;Q8IUZ0;Q86WH2;Q68CL5;Q9NRI5;Q8WWW0;Q9UGJ1;P78371;Q8IYX8;Q8IWN7;Q15058;Q86XR8;Q96Q89;O60333;Q9Y448;Q9H1H9;Q8N4C6;Q9UI46;Q9NP97;Q1W6H9;O43663;Q9NPA3;Q9NXR1;P23258;O00139;Q6Q759;Q9ULD2;Q96N16;O43237;Q7Z4H7;Q05BV3;P48643;Q969S2;O95166;Q96FJ2;Q14203;Q9BSJ2;Q9BTV5;O14576;Q12840;Q8WW24;Q15555;Q96JE9;P49368;Q99689;Q96CW5;Q96SN8;Q08AD1;Q5T5Y3;Q5SW79;Q9UJC3}

1511 [Cluster 138]GO:0032777+C cellular\_component [name] Piccolo NuA4 histone acetyltransferase complex [def] "A heterotrimeric H4/H2A histone acetyltransferase complex with a substrate preference of chromatin over free histones. It contains a subset of the proteins found in the larger NuA4 histone acetyltransferase complex\_ for example, the *S. cerevisiae* complex contains Esa1p, Yng2p, and Epl1p." [PMID

1512 Pathogen[ Q2Q067] interacts with 4 human partners: {Q9NXR8;Q52LR7;Q92993;Q9H2F5}

1513 Pathogen[ P0C214] interacts with 3 human partners: {Q92993;Q52LR7;Q9H2F5}

1514 Pathogen[ P03346] interacts with 4 human partners: {Q52LR7;Q9H2F5;Q92993;Q9NXR8}

1515 Pathogen[ Q85601] interacts with 4 human partners: {Q9H2F5;Q52LR7;Q92993;Q9NXR8}

1516 Pathogen[ P14079] interacts with 3 human partners: {Q52LR7;Q9H2F5;Q92993}

1517 Pathogen[ P03383] interacts with 3 human partners: {Q52LR7;Q9H2F5;Q92993}

1518 Pathogen[ P03410] interacts with 4 human partners: {Q52LR7;Q9H2F5;Q9NXR8;Q92993}

1519 Pathogen[ P14075] interacts with 3 human partners: {Q9H2F5;Q52LR7;Q92993}

1520 Pathogen[ P0C206] interacts with 4 human partners: {Q9H2F5;Q52LR7;Q92993;Q9NXR8}

1521 Pathogen[ P03363] interacts with 3 human partners: {Q9H2F5;Q52LR7;Q92993}

1522 [Cluster 139]GO:0071203+C cellular\_component [name] WASH complex [def] "A protein complex that localizes at the surface of endosomes, where it recruits and activates the Arp2/3 complex to induce actin polymerization. In human, the WASH complex is composed of F-actin-capping protein subunits alpha and beta, WASH1, FAM21, KIAA1033, KIAA0196 and CCDC53." [GOC

1523 Pathogen[ Q2Q067] interacts with 2 human partners: {Q9Y3C0;Q9Y4E1}

1524 Pathogen[ P0C214] interacts with 4 human partners: {Q9Y3C0;Q9Y4E1;Q641Q2;Q5SNT6}

1525 Pathogen[ P03346] interacts with 3 human partners: {Q9Y3C0;A8K0Z3;Q9Y4E1}

1526 Pathogen[ Q85601] interacts with 1 human partners: {Q9Y3C0}

1527 Pathogen[ P14079] interacts with 11 human partners: {Q9Y3C0;Q9Y4E1;P47756;Q6VEQ5;Q2M389;Q9NQA3;Q641Q2;Q5SRD0;A8K0Z3;Q12768;Q5SNT6}

1528 Pathogen[ P03383] interacts with 2 human partners: {Q9Y3C0;Q9Y4E1}

1529 Pathogen[ P03410] interacts with 11 human partners: {Q5SNT6;Q9Y3C0;P47756;Q2M389;Q641Q2;Q9Y4E1;Q6VEQ5;Q5SRD0;Q12768;Q9NQA3;A8K0Z3}

1530 Pathogen[ P14075] interacts with 3 human partners: {Q9Y3C0;Q641Q2;Q9Y4E1}

1531 Pathogen[ P0C206] interacts with 8 human partners: {P47756;Q641Q2;Q12768;Q2M389;Q9Y4E1;Q9Y3C0;Q6VEQ5;Q5SNT6}

1532 Pathogen[ P03363] interacts with 2 human partners: {Q9Y3C0;Q9Y4E1}

1533 [Cluster 140]GO:0071920+C cellular\_component [name] cleavage body [def] "A nuclear body that contains proteins involved in pre-mRNA 3'-end cleavage and polyadenylation, such as DDX1, CSTF2 and CPSFs, as well as the transcription factors TFIIE and TFIIF. Cleavage bodies are localized adjacent to Cajal bodies and are involved in mRNA3'-end processing." [PMID

1534 Pathogen[ Q2Q067] interacts with 2 human partners: {P33240;Q92499}

1535 Pathogen[ P0C214] interacts with 2 human partners: {P33240;Q92499}

1536 Pathogen[ P03346] interacts with 2 human partners: {Q92499;P33240}

1537 Pathogen[ Q85601] interacts with 2 human partners: {Q92499;P33240}

1538 Pathogen[ P14079] interacts with 2 human partners: {P33240;Q92499}

1539 Pathogen[ P03383] interacts with 2 human partners: {P33240;Q92499}

1540 Pathogen[ P03410] interacts with 2 human partners: {Q92499;P33240}

1541 Pathogen[ P14075] interacts with 2 human partners: {Q92499;P33240}

1542 Pathogen[ P0C206] interacts with 2 human partners: {P33240;Q92499}

1543 Pathogen[ P03363] interacts with 2 human partners: {Q92499;P33240}

1544 [Cluster 141]GO:0030692+C cellular\_component [name] Noc4p-Nop14p complex [def] "A heterodimer associated with precursors of the eukaryotic small ribosomal subunit, including the 90S preribosome\_ involved in small subunit biogenesis." [PMID

1545 Pathogen[ Q2Q067] interacts with 1 human partners: {P78316}

1546 Pathogen[ P0C214] interacts with 1 human partners: {P78316}

1547 Pathogen[ P03346] interacts with 1 human partners: {P78316}

1548 Pathogen[ Q85601] interacts with 1 human partners: {P78316}

1549 Pathogen[ P14079] interacts with 1 human partners:{P78316}  
1550 Pathogen[ P03383] interacts with 1 human partners:{P78316}  
1551 Pathogen[ P03410] interacts with 1 human partners:{P78316}  
1552 Pathogen[ P14075] interacts with 1 human partners:{P78316}  
1553 Pathogen[ P0C206] interacts with 1 human partners:{P78316}  
1554 Pathogen[ P03363] interacts with 1 human partners:{P78316}  
1555 [Cluster 142]GO:0030666+C cellular\_component [name] endocytic vesicle membrane [def] "The lipid bilayer surrounding an endocytic vesicle." [GOC  
1556 Pathogen[ Q2Q067] interacts with 12 human partners:{O94973;O95782;O00401;P63010;Q96CW1;P78352;P29474;P0CG47;P0CG48;P62987;Q00987;P62979}  
1557 Pathogen[ P0C214] interacts with 14 human partners:{P29474;Q96CW1;Q00987;P78352;P63010;Q8IVI9;P0CG48;P62987;O94973;P0CG47;O00401;O95782;P62979;P53680}  
1558 Pathogen[ P03346] interacts with 15 human partners:{P29474;P63010;Q8IVI9;P62987;P78352;P53680;P0CG48;O95782;Q00987;Q96CW1;P62979;P0CG47;O00401;O94973;Q9NRD5}  
1559 Pathogen[ Q85601] interacts with 14 human partners:{O00401;Q96CW1;P0CG48;Q8IVI9;P78352;P53680;P62979;O94973;P29474;P0CG47;P63010;P62987;Q00987;O95782}  
1560 Pathogen[ P14079] interacts with 12 human partners:{Q96CW1;P0CG48;P62979;P62987;Q00987;Q8IVI9;O95782;P63010;O94973;P0CG47;P53680;O00401}  
1561 Pathogen[ P03383] interacts with 11 human partners:{Q96CW1;P29474;P62987;O00401;P63010;O95782;P62979;P0CG47;P0CG48;O94973;P78352}  
1562 Pathogen[ P03410] interacts with 15 human partners:{O95782;Q96CW1;P0CG48;P53680;Q8IVI9;O00401;P62979;P29474;Q9NRD5;P63010;P62987;Q00987;P78352;O94973;P0CG47}  
1563 Pathogen[ P14075] interacts with 11 human partners:{P29474;O94973;Q96CW1;P0CG48;P62979;O00401;O95782;P62987;P63010;P0CG47;P78352}  
1564 Pathogen[ P0C206] interacts with 15 human partners:{P53680;P63010;P0CG48;P78352;O94973;Q96CW1;P62979;O00401;O95782;P0CG47;P29474;P62987;Q00987;Q9NRD5;Q8IVI9}  
1565 Pathogen[ P03363] interacts with 9 human partners:{P29474;Q8IVI9;P78352;O94973;P63010;P62987;O95782;O00401;Q96CW1}  
1566 [Cluster 143]GO:0030055+C cellular\_component [name] cell-substrate junction [def] "A cell junction that forms a connection between a cell and the extracellular matrix." [GOC  
1567 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9HBL0;P11532}  
1568 Pathogen[ P0C214] interacts with 3 human partners:{P11532;Q15124;Q9HBL0}  
1569 Pathogen[ P03346] interacts with 2 human partners:{Q9HBL0;P11532}  
1570 Pathogen[ Q85601] interacts with 3 human partners:{P11532;Q15124;Q9HBL0}  
1571 Pathogen[ P14079] interacts with 3 human partners:{P11532;Q15124;Q9HBL0}  
1572 Pathogen[ P03383] interacts with 1 human partners:{P11532}  
1573 Pathogen[ P03410] interacts with 3 human partners:{P11532;Q15124;Q9HBL0}  
1574 Pathogen[ P14075] interacts with 1 human partners:{P11532}  
1575 Pathogen[ P0C206] interacts with 3 human partners:{Q9HBL0;Q15124;P11532}  
1576 Pathogen[ P03363] interacts with 2 human partners:{P11532;Q9HBL0}  
1577 [Cluster 144]GO:0032154+C cellular\_component [name] cleavage furrow [def] "In animal cells, the first sign of cleavage, or cytokinesis, is the appearance of a shallow groove in the cell surface near the old metaphase plate. A contractile ring containing actin and myosin is located just inside the plasma membrane at the location of the furrow. Ring contraction is associated with centripetal growth of the membrane that deepens the cleavage furrow and divides the cytoplasm of the two daughter cells. While the term 'cleavage furrow' was initially associated with animal cells, such a structure occurs in many other types of cells, including unicellular protists." [ISBN  
1578 Pathogen[ Q2Q067] interacts with 9 human partners:{Q9BTV5;O75935;Q9NXR1;P36873;O00255;Q53EZ4;O75154;P35579;P61586}  
1579 Pathogen[ P0C214] interacts with 10 human partners:{O75935;P61586;P35580;Q53EZ4;P36873;Q9BTV5;Q96GD0;Q9NXR1;O00255;O75154}  
1580 Pathogen[ P03346] interacts with 15 human partners:{P35579;O75935;Q14141;Q9NXR1;O95630;O00255;Q15019;P36873;Q9BTV5;Q53EZ4;Q86YS3;Q9H8V3;O75154;P61586;O00444}  
1581 Pathogen[ Q85601] interacts with 12 human partners:{Q53EZ4;O75154;P35579;Q86YS3;O75935;P36873;O00255;P61586;O95630;Q9BTV5;P35580;Q9NXR1}  
1582 Pathogen[ P14079] interacts with 13 human partners:{P35579;Q9BTV5;P36873;Q86YS3;Q96GD0;P61586;Q9H8V3;O75154;Q9NXR1;O75935;O00255;P35241;Q53EZ4}  
1583 Pathogen[ P03383] interacts with 8 human partners:{P36873;P61586;O00255;O75935;P35580;P35579;Q53EZ4;O75154}  
1584 Pathogen[ P03410] interacts with 14 human partners:{O75154;Q9NXR1;P35579;Q9BTV5;Q96GD0;Q86YS3;P61586;P36873;O75935;Q53EZ4;P35580;P35241;Q9H8V3;O00255}  
1585 Pathogen[ P14075] interacts with 7 human

1586 partners:{P36873;O00255;O75935;P35579;P61586;Q53EZ4;O75154}  
Pathogen[ P0C206] interacts with 17 human

1587 partners:{Q15019;O75154;Q9BTV5;O00255;O95630;O00444;Q14141;P61586;P35579;Q9H8V3;Q96GD  
0;Q9NXR1;Q16181;O75935;P36873;P35580;Q86YS3}

1588 Pathogen[ P03363] interacts with 9 human  
partners:{P36873;P35579;Q8IYM1;Q53EZ4;O75935;O75154;Q9NXR1;Q14141;Q9BTV5}

1589 [Cluster 145]GO:0000794+C cellular\_component [name] condensed nuclear chromosome [def]  
"A highly compacted molecule of DNA and associated proteins resulting in a cytologically  
distinct structure that remains in the nucleus." [GOC

1590 Pathogen[ Q2Q067] interacts with 17 human  
partners:{O43463;P18754;P27694;P49959;O14757;P42704;Q92547;Q9H6R4;Q06609;Q9UJW3;Q1505  
0;Q8IYF3;Q9HD42;P23258;O60885;Q14683;Q92845}

1591 Pathogen[ P0C214] interacts with 19 human  
partners:{Q06609;P49959;Q9HD42;P23258;P42704;Q15050;Q9H6R4;O43463;Q92845;Q14683;O6088  
5;P27694;Q92547;P40692;O14757;P18754;Q9BYG3;Q8IYF3;Q9UJW3}

1592 Pathogen[ P03346] interacts with 20 human  
partners:{Q15050;Q06609;P23258;P27694;Q9HD42;Q99626;O14757;P18754;Q8IYF3;O43463;Q1468  
3;P42704;P49959;Q9BYG3;Q92547;O60885;Q92845;Q92791;Q9UJW3;Q9H6R4}

1593 Pathogen[ Q85601] interacts with 19 human  
partners:{Q92547;Q8IYF3;Q9UJW3;P49959;O43463;P27694;P23258;O14757;Q14683;Q15050;P4270  
4;O60885;Q92845;P18754;P40692;Q9H6R4;Q06609;Q9HD42;P51955}

1594 Pathogen[ P14079] interacts with 19 human  
partners:{P40692;P42704;Q9HD42;Q15050;Q9H6R4;P51955;Q9UJW3;P23258;Q92791;Q92547;Q9BYG  
3;P27694;O60885;Q92845;Q9UEY8;Q06609;Q14683;P18754;Q8IYF3}

1595 Pathogen[ P03383] interacts with 15 human  
partners:{Q14683;O14757;Q06609;Q9UJW3;P27694;O43463;Q9H6R4;Q15050;Q8IYF3;P18754;Q9HD4  
2;O60885;P42704;Q92845;Q92547}

1596 Pathogen[ P03410] interacts with 21 human  
partners:{P49959;P40692;Q9UEY8;Q15050;O60885;Q92845;Q92791;Q9HD42;Q9H6R4;Q9BYG3;P4270  
4;Q14683;O14757;Q92547;P23258;P27694;Q9UJW3;O43463;P18754;Q8IYF3;Q06609}

1597 Pathogen[ P14075] interacts with 15 human  
partners:{P42704;Q14683;Q9H6R4;Q92845;Q9UJW3;P27694;O60885;O43463;P18754;Q9HD42;Q1505  
0;Q92547;O14757;Q06609;Q8IYF3}

1598 Pathogen[ P0C206] interacts with 20 human  
partners:{Q9BYG3;P49959;Q92845;P18754;P51955;P40692;O43463;Q92791;Q15050;Q9H6R4;Q1468  
3;O60885;P23258;Q8IYF3;Q06609;P42704;P27694;Q9HD42;Q92547;Q9UJW3}

1599 Pathogen[ P03363] interacts with 18 human  
partners:{Q92547;Q92845;P27694;Q15050;Q99626;P42704;Q92791;O60885;Q9BYG3;O43463;Q9H6R  
4;Q9UJW3;Q06609;P23258;P18754;Q14683;Q9HD42;O14757}

1600 [Cluster 146]GO:0032311+C cellular\_component [name] angiogenin-PRI complex [def] "A  
stable heterodimer of angiogenin and placental ribonuclease inhibitor\_ interaction  
between angiogenin and PRI prevents angiogenin binding to its receptor to stimulate  
angiogenesis." [PMID

1601 Pathogen[ Q2Q067] interacts with 1 human partners:{P13489}

1602 Pathogen[ P0C214] interacts with 1 human partners:{P13489}

1603 Pathogen[ P03346] interacts with 1 human partners:{P13489}

1604 Pathogen[ Q85601] interacts with 1 human partners:{P13489}

1605 Pathogen[ P14079] interacts with 1 human partners:{P13489}

1606 Pathogen[ P03383] interacts with 1 human partners:{P13489}

1607 Pathogen[ P03410] interacts with 1 human partners:{P13489}

1608 Pathogen[ P14075] interacts with 1 human partners:{P13489}

1609 Pathogen[ P0C206] interacts with 1 human partners:{P13489}

1610 Pathogen[ P03363] interacts with 1 human partners:{P13489}

1611 [Cluster 147]GO:0005833+C cellular\_component [name] hemoglobin complex [def] "An  
iron-containing, oxygen carrying complex. In vertebrates it is made up of two pairs of  
associated globin polypeptide chains, each chain carrying a noncovalently bound heme  
prosthetic group." [GOC

1612 Pathogen[ Q2Q067] interacts with 3 human partners:{P68871;P69905;Q9NZD4}

1613 Pathogen[ P0C214] interacts with 8 human  
partners:{P02042;P69905;Q9NPG2;P68871;P69892;Q9NZD4;P02100;P69891}

1614 Pathogen[ P03346] interacts with 5 human  
partners:{P02100;Q9NZD4;Q9NPG2;P69905;P68871}

1615 Pathogen[ Q85601] interacts with 8 human  
partners:{P69905;P02042;P02100;P69892;Q9NZD4;P68871;Q9NPG2;P69891}

1616 Pathogen[ P14079] interacts with 11 human  
partners:{P02042;Q9NPG2;P69891;P02100;P09105;P69905;P02008;P68871;Q9NZD4;Q6B0K9;P6989  
2}

1617 Pathogen[ P03383] interacts with 3 human partners:{P69905;P68871;Q9NZD4}

1618 Pathogen[ P03410] interacts with 11 human  
partners:{Q6B0K9;P02008;P02100;P09105;P68871;P02042;Q9NPG2;P69892;P69905;P69891;Q9NZD  
4}

1619 Pathogen[ P14075] interacts with 3 human partners:{P68871;Q9NZD4;P69905}

1620 Pathogen[ P0C206] interacts with 11 human  
partners:{P68871;Q6B0K9;P02100;P69892;P02008;P69891;Q9NPG2;P69905;P09105;Q9NZD4;P0204  
2}

1621 Pathogen[ P03363] interacts with 3 human partners:{P69905;P68871;Q9NZD4}

1621 [Cluster 148]GO:0030119+C cellular\_component [name] AP-type membrane coat adaptor complex [def] "Any of several heterotetrameric complexes that link clathrin (or another coat-forming molecule, as hypothesized for AP-3 and AP-4) to a membrane surface\_ they are found on coated pits and coated vesicles, and mediate sorting of cargo proteins into vesicles. Each AP complex contains two large (a beta and one of either an alpha, gamma, delta, or epsilon) subunits (110-130 kDa), a medium (mu) subunit (approximately 50 kDa), and a small (sigma) subunit (15-20 kDa)." [GOC

1622 Pathogen[ Q2Q067] interacts with 9 human  
partners:{P56377;O43747;Q2VPB7;Q92572;O00189;P53677;Q9H0R1;O43299;Q9NUS5}

1623 Pathogen[ P0C214] interacts with 9 human  
partners:{O00189;Q9NUS5;Q9H0R1;Q2VPB7;O43299;Q92572;P53677;P56377;O43747}

1624 Pathogen[ P03346] interacts with 9 human  
partners:{Q2VPB7;O43747;Q92572;P56377;Q9H0R1;O00189;Q9NUS5;O43299;P53677}

1625 Pathogen[ Q85601] interacts with 9 human  
partners:{Q9NUS5;P56377;O43747;O43299;Q2VPB7;P53677;Q92572;Q9H0R1;O00189}

1626 Pathogen[ P14079] interacts with 9 human  
partners:{Q2VPB7;P56377;O00189;Q92572;P53677;Q9H0R1;O43299;O43747;Q9NUS5}

1627 Pathogen[ P03383] interacts with 8 human  
partners:{P56377;Q92572;Q9NUS5;O00189;P53677;O43747;O43299;Q2VPB7}

1628 Pathogen[ P03410] interacts with 8 human  
partners:{Q9NUS5;O43747;Q92572;O43299;Q9H0R1;P53677;Q2VPB7;P56377}

1629 Pathogen[ P14075] interacts with 7 human  
partners:{O00189;O43747;Q92572;P56377;Q2VPB7;Q9NUS5;O43299}

1630 Pathogen[ P0C206] interacts with 9 human  
partners:{Q92572;O43747;Q2VPB7;Q9H0R1;O43299;P53677;O00189;P56377;Q9NUS5}

1631 Pathogen[ P03363] interacts with 8 human  
partners:{O43747;P53677;Q9NUS5;Q92572;Q9H0R1;O00189;Q2VPB7;O43299}

1632 [Cluster 149]GO:0016272+C cellular\_component [name] prefoldin complex [def] "A multisubunit chaperone that acts to delivers unfolded proteins to cytosolic chaperonin. In humans, the complex is a heterohexamers of two PFD-alpha and four PFD-beta type subunits." [GOC

1633 Pathogen[ Q2Q067] interacts with 6 human  
partners:{Q99471;Q9NQP4;Q9UBK9;Q9UHV9;P61758;O94763}

1634 Pathogen[ P0C214] interacts with 7 human  
partners:{P61758;Q9UHV9;Q99471;O60925;O94763;Q9NQP4;Q9UBK9}

1635 Pathogen[ P03346] interacts with 7 human  
partners:{Q99471;Q9UHV9;O94763;Q9NQP4;O60925;P61758;Q9UBK9}

1636 Pathogen[ Q85601] interacts with 6 human  
partners:{Q9NQP4;Q99471;Q9UHV9;P61758;O94763;Q9UBK9}

1637 Pathogen[ P14079] interacts with 8 human  
partners:{O60925;Q9UHV9;Q9NQP4;P61758;O94763;Q9NUG6;Q9UBK9;Q99471}

1638 Pathogen[ P03383] interacts with 7 human  
partners:{Q9UHV9;Q9NQP4;O94763;Q99471;O60925;Q9UBK9;P61758}

1639 Pathogen[ P03410] interacts with 8 human  
partners:{O94763;Q9UBK9;Q9NUG6;Q99471;P61758;Q9NQP4;O60925;Q9UHV9}

1640 Pathogen[ P14075] interacts with 7 human  
partners:{O94763;Q9UHV9;Q9UBK9;Q9NQP4;P61758;O60925;Q99471}

1641 Pathogen[ P0C206] interacts with 7 human  
partners:{Q99471;Q9UHV9;O60925;P61758;Q9UBK9;Q9NQP4;O94763}

1642 Pathogen[ P03363] interacts with 8 human  
partners:{Q9UHV9;Q9UBK9;Q99471;O60925;O94763;P61758;Q9NUG6;Q9NQP4}

1643 [Cluster 150]GO:0031372+C cellular\_component [name] UBC13-MMS2 complex [def] "A heterodimeric ubiquitin conjugating enzyme complex that catalyzes assembly of K63-linked polyubiquitin chains, which act as a signal to promote error-free DNA postreplication repair\_ in Saccharomyces the complex comprises Ubc13p and Mms2p." [GOC

1644 Pathogen[ Q2Q067] interacts with 2 human partners:{P61088;Q15819}

1645 Pathogen[ P0C214] interacts with 2 human partners:{Q15819;P61088}

1646 Pathogen[ P03346] interacts with 2 human partners:{P61088;Q15819}

1647 Pathogen[ Q85601] interacts with 2 human partners:{P61088;Q15819}

1648 Pathogen[ P14079] interacts with 1 human partners:{Q15819}

1649 Pathogen[ P03383] interacts with 2 human partners:{P61088;Q15819}

1650 Pathogen[ P03410] interacts with 2 human partners:{P61088;Q15819}

1651 Pathogen[ P14075] interacts with 2 human partners:{Q15819;P61088}

1652 Pathogen[ P0C206] interacts with 2 human partners:{P61088;Q15819}

1653 Pathogen[ P03363] interacts with 2 human partners:{P61088;Q15819}

1654 [Cluster 151]GO:0016324+C cellular\_component [name] apical plasma membrane [def] "The region of the plasma membrane located at the apical end of the cell." [GOC

1655 Pathogen[ Q2Q067] interacts with 14 human  
partners:{O00186;O95782;Q8NI35;Q8IY63;Q9P0M2;P08133;P36543;P08238;Q86UE4;O95049;Q9Y2J4;Q15599;Q15833;Q9Y250}

1656 Pathogen[ P0C214] interacts with 13 human  
partners:{Q15833;Q8NI35;Q9Y2J4;Q15599;P08133;Q9P0M2;O00186;P36543;Q86UE4;O95049;Q9Y250;Q8IY63;O95782}

1657 Pathogen[ P03346] interacts with 17 human  
partners:{Q15833;Q99828;Q9P0M2;Q86UE4;O75970;P36543;O95782;P26038;O00186;Q8IY63;Q8NI35;P08133;Q15599;Q9Y250;O95049;Q9Y2J4;P08238}

1658 Pathogen[ Q85601] interacts with 14 human partners:{Q9Y250;O00186;Q15833;Q8IY63;O95049;Q8NI35;P08238;Q9Y2J4;Q86UE4;Q9P0M2;P08133;Q15599;O95782;P36543}

1659 Pathogen[ P14079] interacts with 31 human partners:{P36543;Q8N307;O95876;P61421;P13498;Q9P0M2;P27352;P26038;Q9Y250;Q9Y2J4;Q99828;Q96NT5;A6NFC5;A6PVL3;O00186;Q15833;O95782;Q96HD9;Q969L2;Q8NI35;O95049;Q15599;P08238;Q8N8Y2;Q86UE4;Q9UKB5;O43687;P15941;Q8IY63;Q15849;O75970}

1660 Pathogen[ P03383] interacts with 10 human partners:{Q86UE4;O00186;O95049;Q9Y2J4;O95782;Q8IY63;P36543;P08133;P08238;Q9Y250}

1661 Pathogen[ P03410] interacts with 30 human partners:{Q96HD9;O95782;A6PVL3;Q15833;Q8N8Y2;Q9Y2J4;P08238;P15941;P61421;Q8N307;Q8NI35;Q15599;O75970;Q9P0M2;P08133;Q99828;P26038;A6NFC5;Q86UE4;Q15049;Q15849;O95876;Q9Y250;O43687;O00186;Q8IY63;P27352;Q969L2;P36543;O95049}

1662 Pathogen[ P14075] interacts with 11 human partners:{A6NFC5;O95049;O00186;Q86UE4;P08133;Q9Y250;P08238;Q8IY63;Q9Y2J4;O95782;P36543}

1663 Pathogen[ P0C206] interacts with 20 human partners:{P36543;Q99828;O95049;Q8IY63;Q15599;P08238;P08133;Q9P0M2;A6NFC5;Q9Y2J4;Q8NI35;O95782;Q86UE4;Q15849;Q16181;Q15833;O95876;Q9Y250;Q969L2;O00186}

1664 Pathogen[ P03363] interacts with 17 human partners:{O95049;P36543;Q8IY63;Q86UE4;Q99828;O75970;Q9P0M2;Q9Y2J4;Q969L2;P08133;Q9Y250;O00186;O95782;Q8NI35;Q15599;P08238;Q15833}

1665 [Cluster 152]GO:0005901+C cellular\_component [name] caveola [def] "A membrane raft that forms small pit, depression, or invagination that communicates with the outside of a cell and extends inward, indenting the cytoplasm and the cell membrane. Examples include any of the minute pits or incupings of the cell membrane formed during pinocytosis. Such caveolae may be pinched off to form free vesicles within the cytoplasm." [GOC

1666 Pathogen[ Q2Q067] interacts with 5 human partners:{Q6NZI2;P11166;P29474;O95810;Q7Z699}

1667 Pathogen[ P0C214] interacts with 5 human partners:{P29474;O95810;Q7Z699;Q6NZI2;P11166}

1668 Pathogen[ P03346] interacts with 5 human partners:{P29474;Q6NZI2;P11166;O95810;Q7Z699}

1669 Pathogen[ Q85601] interacts with 5 human partners:{P11166;O95810;P29474;Q6NZI2;Q7Z699}

1670 Pathogen[ P14079] interacts with 4 human partners:{P11166;Q7Z699;Q6NZI2;O95810}

1671 Pathogen[ P03383] interacts with 3 human partners:{P29474;Q6NZI2;O95810}

1672 Pathogen[ P03410] interacts with 6 human partners:{Q6NZI2;Q7Z699;P11166;P29474;Q15049;O95810}

1673 Pathogen[ P14075] interacts with 3 human partners:{P29474;Q6NZI2;O95810}

1674 Pathogen[ P0C206] interacts with 5 human partners:{O95810;P11166;Q6NZI2;P29474;Q7Z699}

1675 Pathogen[ P03363] interacts with 5 human partners:{P29474;Q7Z699;Q6NZI2;O95810;P11166}

1676 [Cluster 153]GO:0043197+C cellular\_component [name] dendritic spine [def] "Protrusion from a dendrite. Spines are specialised subcellular compartments involved in the synaptic transmission. They are linked to the dendritic shaft by a restriction. Because of their bulb shape, they function as a biochemical and an electrical compartment. Spine remodeling is thought to be involved in synaptic plasticity." [GOC

1677 Pathogen[ Q2Q067] interacts with 8 human partners:{O00213;O95886;Q8N3V7;Q96EV8;Q9UPX8;P62136;O60299;Q9Y250}

1678 Pathogen[ P0C214] interacts with 10 human partners:{O00213;Q9UPX8;O60299;Q9NZI8;Q9Y250;P35580;P62136;O95886;Q96EV8;Q8N3V7}

1679 Pathogen[ P03346] interacts with 15 human partners:{P62136;Q8N3V7;O00213;O14908;Q9Y6D5;Q9NZI8;O43815;Q9P021;Q96EV8;Q9Y250;O95886;O60299;Q9ULV0;Q14CM0;Q9UPX8}

1680 Pathogen[ Q85601] interacts with 10 human partners:{Q9Y250;O00213;Q9UPX8;O43815;Q96EV8;P62136;Q8N3V7;P35580;O95886;O60299}

1681 Pathogen[ P14079] interacts with 18 human partners:{O75781;P24588;Q9Y6D5;O43815;Q9Y250;P62136;O00213;P35611;Q15078;Q9NP74;Q8N3V7;Q05682;O60299;O95886;Q96EV8;Q9P021;O14908;Q9UPX8}

1682 Pathogen[ P03383] interacts with 8 human partners:{O00213;O95886;O60299;Q96EV8;P62136;P35580;Q8N3V7;Q9Y250}

1683 Pathogen[ P03410] interacts with 20 human partners:{Q14CM0;O75781;Q8N3V7;Q05682;Q9ULV0;O60299;P62136;O14908;O00213;Q9Y6D5;P35580;O95886;O43815;Q9Y250;Q9UPX8;Q9P021;Q9NP74;P35611;Q96EV8;P24588}

1684 Pathogen[ P14075] interacts with 7 human partners:{O00213;Q8N3V7;O95886;Q9Y250;P62136;O60299;Q96EV8}

1685 Pathogen[ P0C206] interacts with 13 human partners:{Q8N3V7;O43815;Q9P021;O95886;O60299;O00213;Q9Y6D5;Q96EV8;O14908;Q9UPX8;P35580;Q9Y250;P62136}

1686 Pathogen[ P03363] interacts with 13 human partners:{Q9P021;Q8N3V7;P62136;O14908;O00213;Q9UPX8;Q14CM0;Q9NVA2;Q9Y250;Q9NZI8;O43815;O95886;O60299}

1687 [Cluster 154]GO:0070761+C cellular\_component [name] pre-snoRNP complex [def] "A ribonucleoprotein complex that contains a precursor small nucleolar RNA (pre-snoRNA) and



associated proteins, and forms during small nucleolar ribonucleoprotein complex (snoRNP) assembly. Pre-snoRNP complexes may contain proteins not found in the corresponding mature snoRNP complexes." [GOC

1688 Pathogen[ Q2Q067] interacts with 5 human  
partners:{Q9NWK9;Q16594;Q9UHK0;O00567;Q9Y2X3}

1689 Pathogen[ P0C214] interacts with 6 human  
partners:{Q9NWK9;O00567;Q9UHK0;Q16594;Q9NWS0;Q9Y2X3}

1690 Pathogen[ P03346] interacts with 5 human  
partners:{O00567;Q9NWK9;Q9Y2X3;Q9UHK0;Q16594}

1691 Pathogen[ Q85601] interacts with 5 human  
partners:{Q9NWK9;Q16594;Q9UHK0;O00567;Q9Y2X3}

1692 Pathogen[ P14079] interacts with 6 human  
partners:{Q9Y2X3;Q16594;Q9UHK0;Q9NWS0;O00567;Q9NWK9}

1693 Pathogen[ P03383] interacts with 5 human  
partners:{O00567;Q9NWK9;Q16594;Q9UHK0;Q9Y2X3}

1694 Pathogen[ P03410] interacts with 6 human  
partners:{Q9UHK0;Q9Y2X3;O00567;Q9NWS0;Q16594;Q9NWK9}

1695 Pathogen[ P14075] interacts with 5 human  
partners:{O00567;Q16594;Q9UHK0;Q9Y2X3;Q9NWK9}

1696 Pathogen[ P0C206] interacts with 6 human  
partners:{Q9NWK9;Q9UHK0;O00567;Q9Y2X3;Q9NWS0;Q16594}

1697 Pathogen[ P03363] interacts with 5 human  
partners:{Q9Y2X3;O00567;Q9UHK0;Q9NWK9;Q16594}

1698 [Cluster 155]GO:0000785+C cellular\_component [name] chromatin [def] "The ordered and organized complex of DNA, protein, and sometimes RNA, that forms the chromosome." [GOC

1699 Pathogen[ Q2Q067] interacts with 55 human  
partners:{Q86W56;P05204;P49454;Q92900;Q13573;Q14526;Q9NWS1;Q9Y6X3;Q16236;Q13185;P04198;P06400;Q7Z5K2;Q08999;Q8IYW8;P62826;Q9UBB5;O95243;Q7Z2E3;Q8WYP5;P30279;O15379;O60535;P05114;O14757;O94842;Q96ST3;O15350;Q00597;Q96QC0;P63146;Q29RF7;O43482;Q9BVC3;O00255;Q8IZ40;O75444;Q13127;P60228;Q9NTI5;P82970;O95983;Q13416;P17096;P49459;P42166;P83916;Q01826;P11802;Q8N3U4;Q9Y468;Q15651;Q9H5I1;P83916;O00479}

1700 Pathogen[ P0C214] interacts with 59 human  
partners:{O75444;O95243;Q14526;P60228;Q8IYW8;Q00597;Q9H5I1;Q29RF7;Q13573;P42166;Q15651;Q08999;O94842;Q92900;O15350;P83916;P05204;P17275;P11802;Q8WYP5;P17096;O60535;P49459;Q86W56;Q9Y468;P50747;O43482;P17535;O00479;O95983;Q7Z2E3;Q8IZ40;Q13185;Q9BVC3;O15379;P82970;Q13127;P62826;Q01826;Q7Z5K2;Q8N3U4;Q8WVM7;P30279;Q96ST3;Q13416;Q9Y6X3;Q9NWS1;Q9UBB5;P16220;O14757;P05114;P49454;Q9NTI5;P06400;P63146;O00255;Q96QC0;P04198;Q16236}

1701 Pathogen[ P03346] interacts with 60 human  
partners:{Q9NS91;Q96ST3;Q13263;P30279;P16220;Q08999;O00479;Q8N3U4;Q7Z5K2;Q29RF7;Q96QC0;O15379;P06400;P17275;Q8WYP5;O95983;P17535;P05114;O14757;Q8IZ40;O43482;P49459;O15350;O94842;P42166;P17096;P62826;O75444;P11802;Q16236;Q14526;P60228;O00255;P63146;Q9NWS1;Q9NTI5;Q9Y6X3;P82970;Q9Y468;Q8WVM7;P04198;Q00597;Q8IYW8;Q86W56;O95243;Q13416;P83916;Q7Z2E3;Q9BVC3;O60535;Q13573;Q15651;Q9H5I1;Q92900;P05204;Q9UBB5;Q13185;Q01826;P49454;Q13127}

1702 Pathogen[ Q85601] interacts with 60 human  
partners:{Q9H5I1;P49454;Q9NWS1;P83916;Q13127;Q16236;P17096;P63146;Q08999;P06400;Q13573;Q8WYP5;Q9Y468;P62826;O95243;Q8WVM7;P42166;O95983;Q9NTI5;Q29RF7;Q15651;Q00597;P11802;O14757;Q7Z5K2;Q13263;Q14526;Q9BVC3;P60228;O75444;P17535;P16220;O60535;P30279;P82970;O00255;Q01826;Q13185;O00479;P49459;Q8N3U4;Q96QC0;Q13416;O15379;Q7Z2E3;O15350;P04198;Q8IZ40;P05114;Q92900;P17275;O94842;O43482;Q9UBB5;Q9Y6X3;Q86W56;P05204;Q8IYW8;Q9NS91;Q96ST3}

1703 Pathogen[ P14079] interacts with 52 human  
partners:{O15379;Q13416;Q9NWS1;P05114;O43482;Q96QC0;Q8IYW8;Q96ST3;Q9UBB5;Q9Y468;P17096;Q00597;Q01826;Q13573;O15350;Q9H5I1;Q9NTI5;P82970;Q8N3U4;Q15651;Q13185;Q8WYP5;Q9UN42;O95243;P49459;Q9BVC3;P17275;P04198;P05204;O95983;O75444;Q16236;Q92900;Q86W56;Q9Y6X3;Q9UQE7;P49454;P42166;P62826;O00479;P83916;Q29RF7;Q96JY0;Q8IZ40;Q13127;Q7Z5K2;Q7Z2E3;O00255;P63146;O94842;P17535;Q08999}

1704 Pathogen[ P03383] interacts with 57 human  
partners:{Q13573;Q7Z2E3;P49454;O14757;P17096;P16220;Q9NWS1;Q8N3U4;Q08999;Q14526;P60228;Q8IYW8;P05204;Q8WYP5;Q01826;Q9Y6X3;Q15651;P11802;P06400;Q9UBB5;O60535;P62826;P30279;P83916;O95243;Q13185;Q86W56;Q8IZ40;O15379;O15350;O00479;O94842;P82970;O00255;Q29RF7;Q16236;P04198;O95983;P05114;Q00597;Q96QC0;Q13416;P17535;P49459;Q96ST3;P63146;Q9NTI5;P17275;O75444;Q9BVC3;Q92900;Q9H5I1;O43482;Q9Y468;Q7Z5K2;Q13127;Q8WVM7}

1705 Pathogen[ P03410] interacts with 59 human  
partners:{Q8IYW8;Q29RF7;Q14526;Q96QC0;P30279;O60535;Q13416;P82970;Q92900;Q9UQE7;Q7Z5K2;O75444;Q16236;P49459;Q9UBB5;P17096;Q08999;Q9Y468;Q15651;P06400;Q96ST3;P49454;O95243;Q7Z2E3;Q13127;P42166;P62826;P17535;O94842;P17275;Q00597;O43482;P11802;O15379;Q9H5I1;Q9NTI5;Q01826;O95983;P63146;Q9UN42;Q9BVC3;P16220;O14757;Q13185;Q8N3U4;Q86W56;O00479;Q9NWS1;P83916;O15350;Q8WVM7;P05204;Q8IZ40;O00255;P60228;Q8WYP5;P04198;P05114;Q13573}

1706 Pathogen[ P14075] interacts with 57 human  
partners:{P05204;Q7Z2E3;Q96ST3;Q92900;Q13573;Q14526;Q08999;P11802;Q96QC0;Q9Y6X3;Q8WVM7;O75444;P17275;P30279;Q8WYP5;P49459;Q9Y468;P17096;P04198;Q9UBB5;Q01826;O00255;Q9BVC3;P60228;Q9NWS1;Q9H5I1;O95983;O15350;Q7Z5K2;Q13185;P62826;P82970;P06400;P83916;O15379;Q29RF7;Q13416;O95243;Q13127;P16220;P63146;Q86W56;O00479;Q16236;O94842;Q00597;O43482;Q9NTI5;P17535;P49454;O14757;Q8IZ40;Q15651;O60535;Q8N3U4;Q8IYW8;P05114}

1707 Pathogen[ P0C206] interacts with 61 human partners: {Q9Y468;Q8WYP5;Q94842;Q96ST3;Q13127;Q13263;Q9UBB5;P05114;P16220;P17275;O75444;P05204;P30279;O95983;O00255;Q7Z5K2;Q29RF7;Q9NS91;P17535;Q13416;P62826;P49454;Q9Y6X3;Q08999;Q8IZ40;P60228;Q15651;P82970;Q86W56;Q9UQE7;P83916;P42166;Q13573;O15379;P49459;O60535;P04198;O43482;Q9H5I1;Q8IYW8;Q9NTI5;P17096;Q92900;Q13185;Q16236;O15350;Q01826;Q8N3U4;Q00597;Q96QC0;Q9UN42;Q14526;O00479;Q7Z2E3;Q8WVM7;P11802;O95243;Q9BVC3;P63146;P06400;Q9NWS1}

1708 Pathogen[ P03363] interacts with 59 human partners: {Q16236;P17535;P49454;P49459;P83916;Q00597;Q9Y468;Q92900;Q14526;O60535;Q9H5I1;P30279;Q8WYP5;Q96QC0;O15379;P82970;P04198;Q01826;P16220;Q9BVC3;P63146;P06400;Q13185;Q14807;P17275;Q13127;Q13416;Q08999;Q7Z2E3;P17096;Q96JY0;O75444;Q96ST3;Q8WVM7;Q8IZ40;O95983;Q13573;O00479;O95243;Q29RF7;P05114;Q15651;P60228;O94842;Q9NTI5;Q86W56;Q8N3U4;Q8IYW8;O43482;Q9Y6X3;P11802;Q9NWS1;Q7Z5K2;P62826;P05204;Q9NS91;P42166;Q9UBB5;O14757}

1709 [Cluster 156]GO:0031305+C cellular\_component [name] integral to mitochondrial inner membrane [def] "Located such that some or all of the gene product itself penetrates at least one phospholipid bilayer of the mitochondrial inner membrane. May also refer to the state of being buried in the bilayer with no exposure outside the bilayer." [GOC

1710 Pathogen[ Q2Q067] interacts with 1 human partners: {O14925}

1711 Pathogen[ P0C214] interacts with 1 human partners: {O14925}

1712 Pathogen[ P03346] interacts with 3 human partners: {O14925;P17152;Q16891}

1713 Pathogen[ Q85601] interacts with 1 human partners: {O14925}

1714 Pathogen[ P14079] interacts with 4 human partners: {P17152;Q16891;O14925;Q99595}

1715 Pathogen[ P03383] interacts with 2 human partners: {O14925;P17152}

1716 Pathogen[ P03410] interacts with 4 human partners: {O14925;Q99595;P17152;Q16891}

1717 Pathogen[ P14075] interacts with 2 human partners: {O14925;P17152}

1718 Pathogen[ P0C206] interacts with 3 human partners: {Q16891;O14925;P17152}

1719 Pathogen[ P03363] interacts with 1 human partners: {O14925}

1720 [Cluster 157]GO:0009986+C cellular\_component [name] cell surface [def] "The external part of the cell wall and/or plasma membrane." [GOC

1721 Pathogen[ Q2Q067] interacts with 15 human partners: {O14786;O75145;O75334;P38646;P02511;P04792;P11142;P27797;P11532;Q9UII2;P25063;O15078;Q9Y2M5;Q6ZVN8;Q00839}

1722 Pathogen[ P0C214] interacts with 18 human partners: {O15078;O14786;P02511;P04792;O75330;P11532;Q9UII2;O75145;Q9Y2M5;O75334;P38646;P10809;P25063;Q6ZVN8;P27797;Q00839;P13667;P11142}

1723 Pathogen[ P03346] interacts with 22 human partners: {Q6ZVN8;P11277;O75335;P11142;Q00839;P13667;O75330;P26038;P38646;Q9UII2;P02511;Q15019;P27797;A6NDV4;O75145;P11532;P25063;O75334;O15078;Q9Y2M5;P04792;O14786}

1724 Pathogen[ Q85601] interacts with 14 human partners: {O75145;O75330;P11532;O15078;P27797;O14786;Q9UII2;P02511;P11142;O75334;Q00839;P38646;P04792;Q9Y2M5}

1725 Pathogen[ P14079] interacts with 30 human partners: {Q9H295;P11142;O43187;P11532;Q6ZVN8;Q8NBQ7;P30040;A6NDV4;Q14210;Q9NP84;P02511;Q9UII2;P26038;O60895;Q00839;Q7RTU9;O75145;O00264;O75334;P25063;Q9Y2M5;O76027;O75335;P11277;Q8N9M5;P38646;O15078;P15941;P04792;O75330}

1726 Pathogen[ P03383] interacts with 14 human partners: {P38646;P02511;P25063;P04792;Q9UII2;Q6ZVN8;O15078;P11532;P11142;Q9Y2M5;O75145;O75334;Q00839;P27797}

1727 Pathogen[ P03410] interacts with 32 human partners: {O14786;O75335;Q00839;O75330;O60896;P38646;O60895;P15941;O75334;O76027;P13667;P11532;O43187;Q14210;P30040;P11142;P04792;A6NDV4;Q9UII2;Q6ZVN8;P26038;O00264;P25063;Q7RTU9;P02511;O75145;O15078;Q9BZR6;Q9NP84;P11277;Q9Y2M5;P27797}

1728 Pathogen[ P14075] interacts with 15 human partners: {P11532;P11142;P04792;P38646;Q9UII2;Q00839;O15078;Q6ZVN8;O75145;P27797;P02511;Q9Y2M5;O75330;O75334;P25063}

1729 Pathogen[ P0C206] interacts with 22 human partners: {P27797;Q15019;O75145;O75334;P04792;P38646;O14786;A6NDV4;P25063;O75330;O00264;Q6ZVN8;O15078;P11277;Q9Y2M5;P11532;O75335;P02511;Q00839;P11142;Q9UII2;P13667}

1730 Pathogen[ P03363] interacts with 15 human partners: {O75335;P54652;P11277;O14786;O15078;O75145;O75334;Q9Y2M5;P27797;P11532;P38646;Q6ZVN8;Q00839;P04792;P11142}

1731 [Cluster 158]GO:0031224+C cellular\_component [name] intrinsic to membrane [def] "Located in a membrane such that some covalently attached portion of the gene product, for example part of a peptide sequence or some other covalently attached group such as a GPI anchor, spans or is embedded in one or both leaflets of the membrane." [GOC

1732 Pathogen[ Q2Q067] interacts with 1 human partners: {O60238}

1733 Pathogen[ P0C214] interacts with 2 human partners: {P22735;O60238}

1734 Pathogen[ P03346] interacts with 2 human partners: {O60238;P22735}

1735 Pathogen[ Q85601] interacts with 1 human partners: {O60238}

1736 Pathogen[ P14079] interacts with 5 human partners: {Q4LDR2;P22735;P60606;O60238;P0C2S0}

1737 Pathogen[ P03383] interacts with 1 human partners: {O60238}

1738 Pathogen[ P03410] interacts with 5 human partners: {P0C2S0;P60606;Q4LDR2;O60238;P22735}

1739 Pathogen[ P14075] interacts with 1 human partners: {O60238}

1740 Pathogen[ P0C206] interacts with 2 human partners: {O60238;P22735}

1741 Pathogen[ P03363] interacts with 1 human partners:{O60238}

1742 [Cluster 159]GO:0043209+C cellular\_component [name] myelin sheath [def] "An electrically insulating fatty layer that surrounds the axons of many neurons. It is an outgrowth of glial cells

1743 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BXM0}

1744 Pathogen[ P0C214] interacts with 1 human partners:{Q9BXM0}

1745 Pathogen[ P03346] interacts with 2 human partners:{Q96A65;Q9BXM0}

1746 Pathogen[ Q85601] interacts with 2 human partners:{Q96A65;Q9BXM0}

1747 Pathogen[ P14079] interacts with 4 human partners:{Q86VE9;P02686;Q9BXM0;Q96A65}

1748 Pathogen[ P03383] interacts with 1 human partners:{Q9BXM0}

1749 Pathogen[ P03410] interacts with 4 human partners:{Q86VE9;Q9BXM0;P02686;Q96A65}

1750 Pathogen[ P14075] interacts with 1 human partners:{Q9BXM0}

1751 Pathogen[ P0C206] interacts with 2 human partners:{Q96A65;Q9BXM0}

1752 Pathogen[ P03363] interacts with 2 human partners:{Q9BXM0;Q96A65}

1753 [Cluster 160]GO:0005666+C cellular\_component [name] DNA-directed RNA polymerase III complex [def] "RNA polymerase III, one of three nuclear DNA-directed RNA polymerases found in all eukaryotes, is a multisubunit complex\_ typically it produces 5S rRNA, tRNAs and some of the small nuclear RNAs. Two large subunits comprise the most conserved portion including the catalytic site and share similarity with other eukaryotic and bacterial multisubunit RNA polymerases. The remainder of the complex is composed of smaller subunits (generally ten or more), some of which are also found in RNA polymerase I and others of which are also found in RNA polymerases I and II. Although the core is competent to mediate ribonucleic acid synthesis, it requires additional factors to select the appropriate template." [GOC

1754 Pathogen[ Q2Q067] interacts with 6 human partners:{Q9BUI4;O15318;Q9Y535;P05423;O14802;Q9H1D9}

1755 Pathogen[ P0C214] interacts with 6 human partners:{Q9BUI4;Q9H1D9;P05423;O15318;Q9Y535;O14802}

1756 Pathogen[ P03346] interacts with 6 human partners:{P05423;O15318;Q9H1D9;Q9Y535;Q9BUI4;O14802}

1757 Pathogen[ Q85601] interacts with 7 human partners:{Q9H1D9;Q9Y535;Q9BUI4;Q9Y2Y1;P05423;O14802;O15318}

1758 Pathogen[ P14079] interacts with 7 human partners:{Q9BUI4;P05423;Q9Y2Y1;O14802;O15318;Q9H1D9;Q9Y535}

1759 Pathogen[ P03383] interacts with 4 human partners:{Q9Y535;Q9H1D9;O15318;O14802}

1760 Pathogen[ P03410] interacts with 7 human partners:{O15318;Q9Y535;P05423;Q9Y2Y1;Q9H1D9;O14802;Q9BUI4}

1761 Pathogen[ P14075] interacts with 4 human partners:{Q9H1D9;Q9Y535;O14802;O15318}

1762 Pathogen[ P0C206] interacts with 7 human partners:{Q9BUI4;O15318;Q9Y535;P05423;O14802;Q9Y2Y1;Q9H1D9}

1763 Pathogen[ P03363] interacts with 4 human partners:{Q9Y535;Q9H1D9;P05423;O15318}

1764 [Cluster 161]GO:0005776+C cellular\_component [name] autophagic vacuole [def] "A double-membrane-bounded compartment in which endogenous cellular material is sequestered\_ known as autophagosome in yeast." [ISBN

1765 Pathogen[ Q2Q067] interacts with 10 human partners:{Q7Z3C6;Q9BXW4;Q6ZNE5;Q8IXH6;P60520;Q8IZQ1;Q9Y4P8;Q676U5;Q9H1Y0;Q96A56}

1766 Pathogen[ P0C214] interacts with 11 human partners:{P60520;Q9BXW4;Q676U5;Q8IZQ1;Q6ZNE5;Q9Y4P8;Q8IXH6;Q9H1Y0;Q96A56;Q9H492;Q7Z3C6}

1767 Pathogen[ P03346] interacts with 15 human partners:{O95166;Q7Z3C6;Q8IZQ1;P60520;Q96A56;Q6ZNE5;Q9H0R8;Q9C0C7;Q9H492;Q14596;Q9BXW4;Q9H1Y0;Q8IXH6;Q676U5;Q9Y4P8}

1768 Pathogen[ Q85601] interacts with 13 human partners:{Q9H492;O95166;Q9H0R8;Q14596;Q7Z3C6;Q9BXW4;Q9Y4P8;Q9H1Y0;Q676U5;Q96A56;P60520;Q8IZQ1;Q8IXH6}

1769 Pathogen[ P14079] interacts with 13 human partners:{Q96A56;O95166;Q8IXH6;Q9Y4P8;Q9H492;Q14596;Q7Z3C6;Q9H1Y0;Q6ZNE5;P60520;Q9H0R8;Q676U5;Q9BXW4}

1770 Pathogen[ P03383] interacts with 8 human partners:{Q96A56;Q7Z3C6;Q9H1Y0;Q8IXH6;Q8IZQ1;Q676U5;Q9Y4P8;Q6ZNE5}

1771 Pathogen[ P03410] interacts with 14 human partners:{Q8IXH6;Q9H1Y0;P60520;Q9Y4P8;Q14596;O95166;Q9H0R8;Q9H492;Q9BXW4;Q676U5;Q96A56;Q6ZNE5;Q7Z3C6;Q8IZQ1}

1772 Pathogen[ P14075] interacts with 8 human partners:{Q6ZNE5;Q9H1Y0;Q8IZQ1;Q676U5;Q9Y4P8;Q8IXH6;Q96A56;Q7Z3C6}

1773 Pathogen[ P0C206] interacts with 15 human partners:{Q7Z3C6;Q8IXH6;Q9C0C7;Q9BXW4;Q9H492;Q6ZNE5;Q96A56;Q14596;Q9Y4P8;Q8IZQ1;Q9H1Y0;P60520;Q9H0R8;Q676U5;O95166}

1774 Pathogen[ P03363] interacts with 14 human partners:{Q9H492;Q9BXW4;P60520;Q9H0R8;Q9C0C7;Q96A56;Q7Z3C6;Q6ZNE5;Q9Y4P8;Q8IZQ1;Q676U5;O95166;Q8IXH6;Q9H1Y0}

1775 [Cluster 162]GO:0000176+C cellular\_component [name] nuclear exosome (RNase complex) [def] "Complex of 3'-5' exoribonucleases found in the nucleus." [PMID

1776 Pathogen[ Q2Q067] interacts with 4 human partners:{Q99547;Q9Y2L1;Q06265;Q13901}

1777 Pathogen[ P0C214] interacts with 4 human partners:{Q9Y2L1;Q13901;Q99547;Q06265}

1778 Pathogen[ P03346] interacts with 5 human

1779 Pathogen[ Q85601] interacts with 4 human partners: {Q99547;Q9Y2L1;Q13901;Q06265}

1780 Pathogen[ P14079] interacts with 4 human partners: {Q13901;Q9Y2L1;Q99547;Q06265}

1781 Pathogen[ P03383] interacts with 4 human partners: {Q06265;Q9Y2L1;Q99547;Q13901}

1782 Pathogen[ P03410] interacts with 4 human partners: {Q9Y2L1;Q06265;Q99547;Q13901}

1783 Pathogen[ P14075] interacts with 4 human partners: {Q13901;Q9Y2L1;Q99547;Q06265}

1784 Pathogen[ P0C206] interacts with 4 human partners: {Q99547;Q06265;Q13901;Q9Y2L1}

1785 Pathogen[ P03363] interacts with 4 human partners: {Q99547;Q13901;Q9Y2L1;Q9NQT5}

1786 [Cluster 163]GO:0030914+C cellular\_component [name] STAGA complex [def] "A large multiprotein complex that possesses histone acetyltransferase and is involved in regulation of transcription. The composition is similar to that of the SAGA complex\_ for example, the human complex contains the transcription-transformation cofactor TRRAP, hGCN5L acetylase, novel human ADA-like and SPT-like cofactors, and a subset of TAFs." [PMID]

1787 Pathogen[ Q2Q067] interacts with 13 human partners: {Q9Y4A5;Q16594;O75486;Q9H0E3;Q12962;Q86TJ2;O75529;O75528;Q92830;Q16514;Q9Y6J9;O94864;Q96BN2}

1788 Pathogen[ P0C214] interacts with 13 human partners: {O75486;O75528;Q9Y6J9;Q12962;Q96BN2;Q86TJ2;O94864;Q16594;Q16514;O75529;Q9Y4A5;Q92830;Q9H0E3}

1789 Pathogen[ P03346] interacts with 13 human partners: {Q9Y6J9;O75486;Q9H0E3;Q92830;Q96BN2;O94864;O75528;Q9Y4A5;O75529;Q16514;Q12962;Q86TJ2;Q16594}

1790 Pathogen[ Q85601] interacts with 13 human partners: {O94864;O75528;Q9H0E3;Q9Y4A5;Q16594;Q9Y6J9;Q92830;O75529;Q16514;Q96BN2;Q12962;O75486;Q86TJ2}

1791 Pathogen[ P14079] interacts with 13 human partners: {Q9H0E3;Q9Y4A5;Q9Y6J9;O75528;Q16594;Q92830;O75529;O94864;Q96BN2;Q12962;Q16514;O75486;Q86TJ2}

1792 Pathogen[ P03383] interacts with 12 human partners: {Q9Y6J9;O75528;O75486;Q9Y4A5;O94864;Q96BN2;O75529;Q16594;Q92830;Q16514;Q12962;Q9H0E3}

1793 Pathogen[ P03410] interacts with 13 human partners: {Q92830;Q12962;O75528;Q86TJ2;O75486;Q9H0E3;Q96BN2;Q9Y4A5;Q16514;O94864;Q9Y6J9;Q16594;O75529}

1794 Pathogen[ P14075] interacts with 12 human partners: {Q9Y6J9;Q12962;Q9Y4A5;Q96BN2;Q16594;Q9H0E3;O94864;O75528;Q16514;O75486;O75529;Q92830}

1795 Pathogen[ P0C206] interacts with 13 human partners: {O75486;O75528;Q92830;Q16514;O94864;Q9Y6J9;O75529;Q9H0E3;Q86TJ2;Q9Y4A5;Q96BN2;Q12962;Q16594}

1796 Pathogen[ P03363] interacts with 13 human partners: {Q16514;O94864;Q12962;O75529;Q96BN2;Q92830;Q9Y4A5;O75486;Q9H0E3;Q9Y6J9;O75528;Q86TJ2;Q16594}

1797 [Cluster 164]GO:0097361+C

1798 Pathogen[ Q2Q067] interacts with 2 human partners: {Q96T76;Q9Y3D0}

1799 Pathogen[ P0C214] interacts with 3 human partners: {Q9H6Q4;Q9Y3D0;Q96T76}

1800 Pathogen[ P03346] interacts with 2 human partners: {Q9Y3D0;Q96T76}

1801 Pathogen[ Q85601] interacts with 3 human partners: {Q96T76;Q9Y3D0;Q9H6Q4}

1802 Pathogen[ P14079] interacts with 3 human partners: {Q9Y3D0;Q9H6Q4;Q96T76}

1803 Pathogen[ P03383] interacts with 3 human partners: {Q96T76;Q9Y3D0;Q9H6Q4}

1804 Pathogen[ P03410] interacts with 3 human partners: {Q96T76;Q9H6Q4;Q9Y3D0}

1805 Pathogen[ P14075] interacts with 2 human partners: {Q96T76;Q9Y3D0}

1806 Pathogen[ P0C206] interacts with 3 human partners: {Q9Y3D0;Q96T76;Q9H6Q4}

1807 Pathogen[ P03363] interacts with 2 human partners: {Q9Y3D0;Q96T76}

1808 [Cluster 165]GO:0030877+C cellular\_component [name] beta-catenin destruction complex [def] "A cytoplasmic protein complex containing glycogen synthase kinase-3-beta (GSK-3-beta), the adenomatous polyposis coli protein (APC), and the scaffolding protein axin, among others\_ phosphorylates beta-catenin, targets it for degradation by the proteasome." [PMID]

1809 Pathogen[ Q2Q067] interacts with 2 human partners: {Q9NYF0;Q9HB71}

1810 Pathogen[ P0C214] interacts with 2 human partners: {Q9NYF0;Q9HB71}

1811 Pathogen[ P03346] interacts with 3 human partners: {Q9HB71;Q8IUQ4;Q9NYF0}

1812 Pathogen[ Q85601] interacts with 2 human partners: {Q9NYF0;Q9HB71}

1813 Pathogen[ P14079] interacts with 2 human partners: {Q9HB71;Q9NYF0}

1814 Pathogen[ P03383] interacts with 2 human partners: {Q9HB71;Q9NYF0}

1815 Pathogen[ P03410] interacts with 2 human partners: {Q9HB71;Q9NYF0}

1816 Pathogen[ P14075] interacts with 2 human partners: {Q9NYF0;Q9HB71}

1817 Pathogen[ P0C206] interacts with 3 human partners: {Q9HB71;Q8IUQ4;Q9NYF0}

1818 Pathogen[ P03363] interacts with 2 human partners: {Q9HB71;Q9NYF0}

1819 [Cluster 166]GO:0005871+C cellular\_component [name] kinesin complex [def] "Any complex that includes a dimer of molecules from the kinesin superfamily, a group of related proteins that contain an extended region of predicted alpha-helical coiled coil in the main chain that likely produces dimerization. The native complexes of several kinesin family members have also been shown to contain additional peptides, often designated light chains as all of the noncatalytic subunits that are currently known are

smaller than the chain that contains the motor unit. Kinesin complexes generally possess a force-generating enzymatic activity, or motor, which converts the free energy of the gamma phosphate bond of ATP into mechanical work." [GOC

1820 Pathogen[ Q2Q067] interacts with 6 human partners:{P62258;Q9H0B6;Q02241;Q07866;Q9NRI5;Q92845}

1821 Pathogen[ P0C214] interacts with 5 human partners:{Q07866;Q9NRI5;Q02241;Q9H0B6;Q92845}

1822 Pathogen[ P03346] interacts with 9 human partners:{Q9NRI5;Q9NSK0;Q12840;P62258;Q6P597;Q02241;Q92845;Q9H0B6;Q07866}

1823 Pathogen[ Q85601] interacts with 9 human partners:{Q02241;Q12840;Q6P597;P62258;Q92845;Q9NRI5;Q9GZM8;Q07866;Q9H0B6}

1824 Pathogen[ P14079] interacts with 12 human partners:{Q07866;Q12840;Q02241;Q9NRI5;Q99661;O60282;P62258;Q9GZM8;Q9NSK0;Q92845;Q9H0B6;Q6P597}

1825 Pathogen[ P03383] interacts with 6 human partners:{Q02241;Q9NRI5;Q9H0B6;Q07866;Q92845;P62258}

1826 Pathogen[ P03410] interacts with 12 human partners:{P62258;Q07866;Q9H0B6;Q9GZM8;O60282;Q9NSK0;Q92845;Q12840;Q6P597;Q9NRI5;P33176;Q02241}

1827 Pathogen[ P14075] interacts with 6 human partners:{Q02241;Q92845;Q9NRI5;Q07866;Q9H0B6;P62258}

1828 Pathogen[ P0C206] interacts with 10 human partners:{Q92845;Q6P597;Q02241;Q9GZM8;Q9H0B6;P62258;Q9NRI5;Q12840;Q9NSK0;Q07866}

1829 Pathogen[ P03363] interacts with 10 human partners:{Q92845;P62258;P33176;Q02241;Q07866;O60282;Q9H0B6;Q9NSK0;Q9NRI5;Q12840}

1830 [Cluster 167]GO:0072372+C cellular\_component [name] primary cilium [def] "A cilium found on many different cell types that is typically present in a single copy per cell. A primary cilium may have a variable array of axonemal microtubules and may or may not contain molecular motors." [GOC

1831 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BYV8}

1832 Pathogen[ P0C214] interacts with 1 human partners:{Q9BYV8}

1833 Pathogen[ P03346] interacts with 3 human partners:{Q8N157;Q9BYV8;P36405}

1834 Pathogen[ Q85601] interacts with 2 human partners:{P36405;Q9BYV8}

1835 Pathogen[ P14079] interacts with 4 human partners:{Q8N157;P36405;A0AVF1;Q9BYV8}

1836 Pathogen[ P03383] interacts with 1 human partners:{Q9BYV8}

1837 Pathogen[ P03410] interacts with 5 human partners:{A0AVF1;P36405;Q8TCX1;Q9BYV8;Q8N157}

1838 Pathogen[ P14075] interacts with 1 human partners:{Q9BYV8}

1839 Pathogen[ P0C206] interacts with 3 human partners:{Q8N157;Q9BYV8;P36405}

1840 Pathogen[ P03363] interacts with 2 human partners:{Q9BYV8;Q8N157}

1841 [Cluster 168]GO:0000779+C cellular\_component [name] condensed chromosome, centromeric region [def] "The region of a condensed chromosome that includes the centromere and associated proteins, including the kinetochore. In monocentric chromosomes, this region corresponds to a single area of the chromosome, whereas in holocentric chromosomes, it is evenly distributed along the chromosome." [GOC

1842 Pathogen[ Q2Q067] interacts with 2 human partners:{Q13185;Q5FBB7}

1843 Pathogen[ P0C214] interacts with 2 human partners:{Q13185;Q5FBB7}

1844 Pathogen[ P03346] interacts with 2 human partners:{Q5FBB7;Q13185}

1845 Pathogen[ Q85601] interacts with 2 human partners:{Q13185;Q5FBB7}

1846 Pathogen[ P14079] interacts with 2 human partners:{Q5FBB7;Q13185}

1847 Pathogen[ P03383] interacts with 2 human partners:{Q5FBB7;Q13185}

1848 Pathogen[ P03410] interacts with 2 human partners:{Q13185;Q5FBB7}

1849 Pathogen[ P14075] interacts with 2 human partners:{Q13185;Q5FBB7}

1850 Pathogen[ P0C206] interacts with 2 human partners:{Q5FBB7;Q13185}

1851 Pathogen[ P03363] interacts with 2 human partners:{Q13185;Q5FBB7}

1852 [Cluster 169]GO:0005667+C cellular\_component [name] transcription factor complex [def] "A protein complex, distinct from RNA polymerase, that associates with DNA at promoters or at cis-acting regulatory sequences, by direct binding or by interaction with other DNA-binding polypeptides or complexes, and regulates transcription." [GOC

1853 Pathogen[ Q2Q067] interacts with 128 human partners:{Q9UKI9;P27540;P25490;Q6VMQ6;P01100;Q9Y4A5;Q9Y5Q3;Q03052;O75461;A0AVK6;Q9HBZ2;P15884;Q99081;Q9Y2D1;Q5VTD9;O00470;P06400;Q8WYA1;Q01094;Q9UKV0;Q08999;P14921;P36402;P46937;Q13485;P35680;P48380;Q9Y606;Q15562;Q6P1K2;Q7Z6R9;Q9HD15;Q04206;Q96AV8;Q99594;O94776;A6NFD8;P15976;Q96ST3;O15350;Q14934;P20265;P15172;Q15561;Q9ULK4;Q08050;Q96IF1;O43524;P53999;Q9ULW3;P55347;Q99504;P35548;Q99743;Q14186;P40426;Q15699;P25791;Q9Y6Y0;P12755;P84022;O00716;Q92769;O15105;P14859;Q8IZ40;Q9GZV5;O43541;O43679;P09874;Q6P2C8;Q16254;O15198;Q9NVC6;Q8WVJ9;Q15327;Q96H20;Q15329;P35869;Q92993;Q8IX07;Q9UPW6;P12956;Q15796;Q02080;Q8N9N2;P78337;Q9HBH7;Q13363;Q9NQ33;P28749;P20823;O75360;O43186;Q14686;P22415;Q9UMQ3;P19484;Q14209;P17096;Q04724;O43513;Q96PK6;Q9NPF71;Q92793;Q86U70;Q01860;P18848;P24941;Q14188;Q02577;Q03060;P11802;P15923;O60422;Q99717;O75376;Q99814;P40425;P22736;Q9UI36;Q15797;P40424;P49715;P31260;Q14693;Q9BXJ9;Q3C1V8}

1854 Pathogen[ P0C214] interacts with 119 human partners:{P40424;Q92993;O00470;Q03052;O15198;Q15327;Q16254;A0AVK6;P35869;Q13363;O75461;P55347;Q8N9N2;P78337;Q6VMQ6;Q08999;P14921;O43186;Q9HD15;P19484;Q99081;Q7Z6R9;Q5H9I0;P15884;O15350;Q02080;P01100;P11802;Q99743;Q92793;Q9HBH7;P53999;P46937;P84022;P17096;P15172;Q9GZV5;Q04206;Q9NVC6;Q9Y5Q3;Q9UKI9;O00716;Q04724;Q14686;Q6P1K2;Q5VTD9;Q9HBZ2;P

- 20265;Q15561;Q01094;P18848;Q14186;P15923;P25791;Q9Y6Y0;O94776;Q86U70;O43513;Q8IZ40;Q13485;Q92769;O15105;Q15329;Q9UKV0;O43679;P24941;O75376;Q15796;Q99594;Q9BXJ9;Q99504;Q9NP71;O43541;Q96PK6;Q9Y2D1;Q8WYA1;Q8IX07;P12755;Q14934;Q9UI36;Q6P2C8;Q9Y4A5;O75360;P36402;P05412;Q9UMQ3;Q8WVJ9;P28749;Q02577;Q03060;P40425;Q99814;Q96ST3;Q9ULW3;Q99717;P27540;Q9UPW6;Q96H20;P48380;P22415;Q15797;P16220;Q15562;Q9Y606;Q9ULK4;Q9NQ33;Q15699;P14859;Q14209;Q01860;Q3C1V8;Q14188;P06400;P35548;P12956;P09874;P18846;Q14693;Q96AV8}
- 1855 Pathogen[ P03346] interacts with 166 human  
partners: {Q99081;P85037;Q3C1V8;Q9Y606;Q96ST3;P05412;Q15562;P46937;P31260;P52954;Q86U70;Q6QHK4;P12956;P58012;P78337;Q7RTS3;Q3KNW1;A6NFD8;Q9UPW6;P16220;Q08999;Q03052;P19484;P36402;Q9ULW3;P35548;P31270;Q15329;Q9NP62;Q99594;Q8NFW5;P06400;P40426;Q9HBH7;Q15797;Q14188;Q9GZV5;Q96HZ4;Q9UKI9;Q15911;Q9HD15;P25490;P24941;P14859;P48380;P15923;P15172;Q15796;Q15327;Q04206;Q8IZ40;O94776;Q96IF1;Q92826;P15173;Q08050;Q14209;Q9Y5Q3;Q9NQ33;Q96AV8;O43186;Q9Y2D1;P27540;Q99717;P20823;O15350;O15105;Q16254;O00409;Q01094;P49715;P17096;Q01860;Q96H20;O00151;O15198;P11802;P20265;Q15561;Q14934;Q15699;Q9NP71;Q14186;P18848;O00327;P14921;P84022;P25791;Q9Y6Y0;O43513;P17542;Q9HCS4;O43541;P22736;P15976;P53999;Q9Y4A5;Q6VMQ6;Q6P2C8;Q92769;Q9UBG7;Q04724;P40425;Q6N069;O00470;O43679;Q8WVJ9;P84550;Q9BXJ9;P35680;Q15475;Q8IX07;Q99814;Q12778;Q01167;Q5H9I0;O75376;P98177;Q9HBZ2;Q5VTD9;P09874;P28749;Q9UKV0;Q9NVC6;P55347;O75461;Q9UBR4;O60422;Q99593;Q13363;Q02080;P61968;P40424;Q03060;Q13485;Q8WYA1;O75360;O15516;Q92993;O75398;Q92793;P35869;Q9ULK4;Q9UI36;O75593;Q99504;A0AVK6;O43524;P56915;Q02577;Q6P1K2;Q8N9N2;P01100;Q96PK6;Q9UMQ3;Q99743;O00716;Q7Z6R9;P15884;P18846;P35452;Q8IUM7;P22415;Q14693;Q14686;Q9UJU5}
- 1856 Pathogen[ Q85601] interacts with 138 human  
partners: {Q9ULW3;O15198;Q6N069;Q9UKV0;P09874;O75360;Q96PK6;P17096;P61968;Q9UPW6;Q08999;P15976;O94776;Q96H20;P19484;P15172;Q04724;P14921;Q03052;Q9ULK4;O75398;Q86U70;Q15329;Q9Y606;P06400;O43541;Q15797;Q7Z6R9;P18848;P14859;Q9Y4A5;O15516;Q8WYA1;Q99504;Q14188;P25490;O00327;Q9GZV5;O00151;P18846;Q9NQ33;Q99814;P27540;P53999;Q13363;P78337;Q99743;Q9NP71;Q02080;P12755;Q9Y5Q3;Q9UBG7;P11802;P01100;Q14934;P22415;Q14686;P31260;Q14186;P40424;P25791;Q9Y6Y0;O75461;Q9UMQ3;Q9HD15;Q92769;A6NFD8;P16220;Q99717;Q15699;Q04206;O43679;P40425;Q9UI36;Q3C1V8;Q02577;Q15562;Q99594;P22736;Q9BXJ9;P35548;P35680;P05412;Q15327;Q9HBH7;Q8IX07;Q9UKI9;O75376;O00470;Q16254;Q14209;P15923;Q9HBZ2;P36402;Q5H9I0;P28749;Q96IF1;P84022;P49715;Q9Y2D1;P55347;O60422;Q5VTD9;Q8N9N2;P46937;Q08050;Q6P2C8;P35869;O15105;O15350;Q99081;P40426;Q92993;Q8IZ40;Q92793;P48380;Q9HCS4;Q6VMQ6;A0AVK6;P20823;Q13485;Q6P1K2;P24941;Q01860;Q03060;O00716;Q96AV8;Q9NVC6;O43513;Q15561;Q01094;P15884;Q8WVJ9;Q15796;P12956;P20265;Q14693;Q96ST3}
- 1857 Pathogen[ P14079] interacts with 113 human  
partners: {Q9UPW6;Q8N9N2;O43513;Q99743;P09874;Q9Y4A5;P12755;Q9Y5Q3;Q15561;P35869;Q99814;Q9GZV5;Q96H20;P14859;Q14693;P28749;P78337;Q14186;Q15911;P53999;P35680;P20265;Q96ST3;P55347;Q16254;O43679;Q92793;Q9BXJ9;Q86U70;O15198;Q15329;Q99594;Q15699;P17096;Q03060;P48380;Q6P2C8;Q9ULK4;Q8WVJ9;Q9NVC6;Q5H9I0;Q14209;Q9UKV0;P22736;P15976;P19484;P46937;O00151;O75461;P15923;Q15797;O15350;P36402;Q3C1V8;P12956;Q9ULW3;Q6VMQ6;Q01860;Q5VTD9;Q92769;O00716;Q96IF1;Q9NQ33;P49715;Q14934;P25791;P27540;Q9HD15;Q9HBH7;O75360;Q9Y6Y0;Q8IX07;Q15327;Q9UI36;Q9UMQ3;O43541;Q9Y606;Q7Z6R9;Q04724;O75376;Q02577;Q96AV8;Q15562;Q9UKI9;P15884;Q99504;Q6N069;Q9HBZ2;Q03052;Q99081;A0AVK6;P05412;Q8IZ40;P25490;P28360;O15105;Q8WYA1;O00470;O94776;Q01094;A6NFD8;Q02080;P01100;Q9NP71;Q14188;Q8IUM7;Q14686;Q96PK6;Q92993;Q6P1K2;Q08999;Q9UBG7;P22415}
- 1858 Pathogen[ P03383] interacts with 107 human  
partners: {Q15329;Q02577;O15198;Q99504;O00470;Q15561;Q02080;Q13485;O00716;Q9UPW6;Q14209;P17096;Q9UKI9;P16220;P27540;Q15562;Q5H9I0;Q08999;O94776;P15172;Q01094;P14921;O75376;Q8WVJ9;Q9ULK4;Q9Y5Q3;Q96H20;P19484;Q86U70;P40424;P14859;Q9Y4A5;O75360;P53999;Q9UMQ3;Q14686;P48380;Q6VMQ6;O75461;P15923;P15923;Q9ULW3;Q01860;Q15797;P18846;Q92993;Q04724;P78337;P11802;P06400;Q9NP71;P55347;Q14934;O15105;Q14186;Q6P2C8;Q9Y606;P84022;P25791;Q9Y6Y0;Q9HD15;Q96PK6;Q9BXJ9;P35548;P24941;Q92769;Q99717;P09874;O43679;Q9HBH7;Q99081;Q16254;O43541;Q8IZ40;O15350;Q9NQ33;P36402;P28749;Q15327;Q14188;P01100;Q9UKV0;O43186;Q15796;Q99594;Q6P1K2;Q04206;Q96ST3;P18848;Q9NVC6;Q9Y2D1;Q9UI36;Q15699;P20265;Q96AV8;P35869;P46937;Q9GZV5;Q3C1V8;Q03060;A0AVK6;P40425;Q13363;Q92793;P12956;P22415;Q14693;P05412}
- 1859 Pathogen[ P03410] interacts with 126 human  
partners: {P84022;Q99594;Q99743;Q9UKV0;P40426;Q04206;Q9UI36;Q96AV8;O75461;P53999;O00470;Q96PK6;Q15329;Q8WVJ9;P12755;Q9UMQ3;Q99814;Q01860;P25791;Q14686;P18848;P36402;Q9Y2D1;P14859;Q9NVC6;Q99717;P15884;Q5H9I0;Q16254;Q3C1V8;O43679;O15198;Q04724;Q9Y6Y0;P17096;A6NFD8;Q03060;Q8N9N2;Q08999;P06400;P19484;O75376;P15923;Q03052;Q9UPW6;Q14188;Q96ST3;P25490;P01100;P18846;Q14693;Q6VMQ6;Q9GZV5;Q9HBZ2;Q96IF1;Q9Y5Q3;P27540;Q99081;O00716;P12956;P35548;Q92793;Q8IX07;Q9ULK4;Q6N069;Q15561;Q92769;O43513;Q9Y4A5;P24941;P11802;Q6P1K2;Q9HBH7;Q15797;Q86U70;Q9NP71;P48380;P22415;Q13485;P22736;Q14186;P09874;P16220;P46937;Q6P2C8;Q15699;Q9504;P05412;O43541;Q9NQ33;Q7Z6R9;P28749;Q9UKI9;Q9Y606;P55347;Q9ULW3;O94776;Q9HCS4;Q01094;P35680;Q02577;O15350;Q8IZ40;O00151;O75360;Q14209;Q9HD15;Q02080;P20265;Q5VTD9;Q96H20;P40424;Q15796;Q92993;O60422;Q15562;Q14934;P15976;A0AVK6;P78337;P14921;Q8WYA1;Q9UBG7;Q9BXJ9}
- 1860 Pathogen[ P14075] interacts with 109 human  
partners: {Q9NQ33;Q96ST3;P35869;Q9GZV5;Q02577;Q86U70;Q99504;P12956;Q04206;P78337;P24941;P40424;Q08999;P05412;P11802;P40425;Q9Y2D1;P14859;Q9BXJ9;Q15562;O00470;O43541;Q14686;Q01860;P48380;P35548;Q15561;P15172;P17096;Q15327;Q9Y606;Q08050;O43186;P19484;P20265;O94776;Q02080;Q99717;Q9Y4A5;Q9UKV0;O00716;Q15796;P15923;Q14209;Q8WVJ9;Q92993;Q96H20;O75376;P27540;P55347;Q13485;Q9NP71;Q14186;P25791;Q9Y6Y0;Q9UPW6;Q9HBH7;Q96PK6;O15350;Q16254;Q92769;Q9Y5Q3;O43679;Q6VMQ6;Q14934;O15198;Q99594;Q9ULW3;P53999;P18848;O75360;Q9UMQ3;Q01094;O15105;P14921;P36402;P06400;Q96AV8;Q3C1V8;P28749;Q9ULK4;P01100;Q6P2C8;Q92793;P15884;Q9NVC6;Q9UI36;Q15699;P46937;Q03060;Q04724;P16220;Q6P1K2;Q13363;Q9UKI9;Q1532

- 9;P22415;P84022;Q99081;Q14188;O43513;O75461;A0AVK6;Q9HD15;Q8IZ40;P09874;P18846;Q5H9I0;Q14693}
- 1861 Pathogen[ P0C206 ] interacts with 144 human  
partners: {O43679;P46937;P84022;O43541;Q14188;Q92769;Q03060;Q15329;Q8N9N2;Q9Y2D1;Q96ST3;Q6VMQ6;Q9NP71;P40425;Q99504;Q9Y5Q3;P14921;Q15911;P16220;P35869;P09874;P25490;Q96AV8;Q01860;Q96IF1;Q15327;O00470;Q99717;Q9UMQ3;P05412;Q9UKV0;A6NFD8;Q6P2C8;Q14186;P49715;O94776;Q9HCS4;P19484;Q92993;P18846;P48380;O00716;P15976;Q9HD15;P22736;Q15699;Q15796;Q8WVJ9;Q96HZ4;Q16254;P40424;P28749;Q6N069;P12755;O75360;Q92793;Q7Z6R9;Q9GZV5;O43513;Q08999;Q9Y6Y0;Q8IZ40;O15105;O00327;Q6P1K2;P78337;Q14209;Q02080;Q99743;O15516;P22415;P40426;P53999;Q99081;Q9Y4A5;Q9ULW3;Q96H20;P35680;P35548;P01100;Q04206;Q9UPW6;Q9UKI9;P15923;Q96PK6;Q01094;Q14686;O00151;A0AVK6;P15884;P20823;Q3C1V8;Q03052;Q9NQ33;Q15562;O75376;Q9HBH7;Q13485;P25791;Q8WYA1;Q04724;Q14934;P17096;Q9Y606;Q08050;Q15797;Q9ULK4;Q8IX07;P20265;O15350;Q5H9I0;P27540;Q9NVC6;P15172;Q5VTD9;Q86U70;Q9UBR4;Q99594;O75398;Q99814;Q8IUM7;O15198;P84550;P61968;Q13363;Q02577;Q9BXJ9;Q14693;P12956;Q9UI36;O75461;P24941;P36402;P18848;O60422;Q9UBG7;P11802;Q9NP62;Q15561;P31260;Q9HBZ2;P14859;P06400;P55347}
- 1862 Pathogen[ P03363 ] interacts with 141 human  
partners: {Q9Y6Y0;Q15911;Q86U70;Q5VTD9;Q15699;P12956;Q8IUM7;P18848;Q9ULW3;O75461;Q8NFW5;Q8N9N2;Q6N069;Q6VMQ6;Q6P1K2;O75360;Q04206;P27540;Q3C1V8;P36402;Q15562;O60422;Q9Y606;Q9HD15;Q7RTS3;Q9HBH7;P25490;Q96HZ4;Q9UKI9;O75376;Q16254;P16220;Q9Y2D1;Q02080;Q9NQ33;P14921;P35548;Q9HBZ2;O43679;O15105;P24941;Q15797;Q04724;Q9HCS4;P55347;Q5H9I0;Q14686;P06400;Q15327;Q96H20;Q99743;O00409;P28749;P35869;Q96PK6;Q96IF1;P40425;P25791;O43524;P15923;Q08050;P46937;Q9UI36;P14859;P56915;Q9GZV5;Q08999;P17096;P18846;Q01094;Q8WYA1;Q9UKV0;Q9NVC6;O00327;O43186;P31260;Q96ST3;O43541;Q99504;Q8IZ40;P20265;Q15796;P84022;A0AVK6;Q01167;Q7Z6R9;Q92826;O00470;Q14209;P22415;Q99814;P53999;Q92793;Q13485;Q9Y4A5;Q14186;P19484;P84550;Q14188;P15884;O75398;P05412;P40424;Q96AV8;Q14934;P40426;P09874;P35452;Q9NP71;Q13363;Q9UBG7;Q9ULK4;Q9UMQ3;P11802;Q99081;P48380;O00716;Q9UJU5;Q6P2C8;P78337;P15172;O43513;Q15561;Q99717;Q9UPW6;O15198;Q99594;Q15329;Q3KNW1;Q9Y5Q3;Q8WVJ9;Q92993;Q01860;Q9BXJ9;Q03060;Q03052;O94776;Q02577;A6NFD8;P01100;Q6QHK4}
- 1863 [Cluster 170]GO:0014069+C cellular\_component [name] postsynaptic density [def] "The post synaptic density is a region that lies adjacent to the cytoplasmic face of the postsynaptic membrane at excitatory synapse. It forms a disc that consists of a range of proteins with different functions, some of which contact the cytoplasmic domains of ion channels in the postsynaptic membrane. The proteins making up the disc include receptors, and structural proteins linked to the actin cytoskeleton. They also include signalling machinery, such as protein kinases and phosphatases." [GOC
- 1864 Pathogen[ Q2Q067 ] interacts with 23 human  
partners: {P63104;O95886;Q8N3V7;Q9NSC5;Q15596;Q9H0F6;Q9P1A6;Q96EV8;O14910;Q86UL8;Q12959;Q9UQB3;P78352;Q9UPX8;Q92796;O60299;Q9NZU7;P50570;Q9NRI5;Q9BVN2;Q9Y250;Q9NUP9;O14490}
- 1865 Pathogen[ P0C214 ] interacts with 22 human  
partners: {O14490;O14910;Q9UPX8;Q9NRI5;Q92796;P62166;Q9H0F6;Q9P1A6;O60299;Q9NSC5;Q9Y250;P78352;Q9UQB3;O95886;Q9NZU7;Q96EV8;Q12959;Q9HD26;Q9BVN2;P50570;Q15596;Q8N3V7}
- 1866 Pathogen[ P03346 ] interacts with 35 human  
partners: {Q9NSC5;Q9NRI5;Q8N3V7;O14490;P50570;Q96A65;P78352;Q9NZU7;O75970;O43815;Q9H0F6;Q92796;Q9UQB3;Q9P021;Q9NUP9;Q86UL8;Q15596;Q96EV8;Q9HD26;Q9Y250;O95886;Q12929;P62166;O60299;Q9HAP6;P63104;Q15700;Q9BVN2;Q9C0H9;Q9UPX8;P0C2W1;Q9NRD5;O14910;Q9P1A6;Q12959}
- 1867 Pathogen[ Q85601 ] interacts with 27 human  
partners: {O14490;Q9Y250;P63104;Q9UPX8;Q9NZU7;Q9NUP9;O14910;Q96A65;Q86UL8;Q9P1A6;Q9BVN2;O43815;Q9H0F6;Q15596;Q9UQB3;Q96EV8;Q9HD26;Q8N3V7;P50570;P78352;Q92796;Q12959;Q9NSC5;Q9NRI5;O95886;P62166;O60299}
- 1868 Pathogen[ P14079 ] interacts with 34 human  
partners: {Q12929;Q15596;Q9BVN2;Q15700;P24588;O43815;Q9UQB3;Q9Y250;Q9NRI5;Q9C0H9;P50570;P63104;Q15078;Q9HD26;Q9NUP9;Q7Z7J9;P62166;Q8N3V7;Q9HAP6;Q9NSC5;Q86UL8;Q96A65;Q05682;Q9H0F6;O60299;O95886;Q96EV8;Q9P021;Q9P1A6;Q92796;Q9NZU7;O14490;O75970;Q9UPX8}
- 1869 Pathogen[ P03383 ] interacts with 19 human  
partners: {Q9P1A6;Q9H0F6;Q15596;Q9HD26;Q9NRI5;O95886;O60299;O14490;Q96EV8;Q9UQB3;P63104;Q9NSC5;Q92796;Q8N3V7;Q9C0H9;P78352;O14910;Q9BVN2;Q9Y250}
- 1870 Pathogen[ P03410 ] interacts with 37 human  
partners: {Q9BVN2;Q9P1A6;O14910;Q8N3V7;Q05682;Q12959;O60299;Q9NUP9;P50570;Q9NSC5;O14490;Q9HAP6;Q15700;Q9HD26;O75970;Q9NRD5;Q96A65;Q92796;Q7Z7J9;Q9NZU7;P63104;Q15596;Q9NRI5;O95886;O43815;Q9UQB3;Q9Y250;Q9UPX8;Q86UL8;Q9P021;Q9C0H9;P62166;P78352;Q96EV8;Q12929;P24588;Q9H0F6}
- 1871 Pathogen[ P14075 ] interacts with 19 human  
partners: {Q8N3V7;Q9BVN2;O95886;Q9Y250;Q9HD26;Q9NRI5;Q9UQB3;O14910;O60299;Q9NSC5;O14490;P63104;Q92796;Q9P1A6;Q96EV8;P78352;Q9C0H9;Q9H0F6;Q15596}
- 1872 Pathogen[ P0C206 ] interacts with 32 human  
partners: {Q9NUP9;P78352;Q8N3V7;P62166;Q15700;O43815;Q9P021;O95886;O60299;Q9NZU7;Q96A65;P63104;O14490;Q9NSC5;Q96EV8;Q9NRI5;Q9UPX8;O14910;Q9C0H9;Q9H0F6;Q15596;Q92796;Q86UL8;Q9UQB3;Q9NRD5;Q86YT6;Q12959;Q9HD26;Q9Y250;P50570;Q9P1A6;Q9BVN2}
- 1873 Pathogen[ P03363 ] interacts with 30 human  
partners: {Q9P021;Q12959;Q8N3V7;Q9UPX8;Q96A65;O14910;P78352;P50570;Q15700;Q15596;O75970;P63104;Q9NSC5;Q9Y250;O43815;Q9NZU7;Q12929;Q9BVN2;Q9H0F6;Q9NRI5;Q86UL8;O95886;Q9P1A6;O14490;Q92796;Q9NUP9;O60299;Q9UQB3;Q9HD26;Q9C0H9}
- 1874 [Cluster 171]GO:0000137+C cellular\_component [name] Golgi cis cisterna [def] "The Golgi cisterna closest to the endoplasmic reticulum\_ the first processing compartment through which proteins pass after export from the ER." [ISBN

1875 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96P71}

1876 Pathogen[ P0C214] interacts with 1 human partners:{Q96P71}

1877 Pathogen[ P03346] interacts with 1 human partners:{Q96P71}

1878 Pathogen[ Q85601] interacts with 1 human partners:{Q96P71}

1879 Pathogen[ P14079] interacts with 2 human partners:{Q9NY59;Q96P71}

1880 Pathogen[ P03383] interacts with 1 human partners:{Q96P71}

1881 Pathogen[ P03410] interacts with 1 human partners:{Q96P71}

1882 Pathogen[ P14075] interacts with 1 human partners:{Q96P71}

1883 Pathogen[ P0C206] interacts with 1 human partners:{Q96P71}

1884 Pathogen[ P03363] interacts with 1 human partners:{Q96P71}

1885 [Cluster 172]GO:0010008+C cellular\_component [name] endosome membrane [def] "The lipid bilayer surrounding an endosome." [GOC

1886 Pathogen[ Q2Q067] interacts with 41 human partners:{Q9UH99;O75351;Q8IUC6;O60664;Q99816;Q9H1H9;Q92985;Q9NZD8;Q9UJY4;Q9BRG1;Q9UJY5;Q9NYJ8;Q8N1B4;Q96EV8;Q9UBQ0;Q7Z614;Q8NEU8;P61077;Q8N5C8;Q14653;Q5VIR6;A5D8V6;Q92562;O75843;Q9HD42;Q96H20;Q9NZZ3;Q9UK41;O75436;Q9H9H4;P0CG47;Q9NP79;P0CG48;O43318;P62987;Q9UKG1;O75674;Q8NEZ2;Q9NZ52;Q15750;P62979}

1887 Pathogen[ P0C214] interacts with 44 human partners:{O75351;Q9UJY5;Q8IUC6;Q14164;Q9NP79;Q9HD42;Q7Z614;Q9UK41;Q9UKG1;O43318;Q92562;O75843;P61077;Q9UH99;Q8N5C8;Q92985;Q08AM6;Q9UJY4;Q9NZD8;Q9BRG1;P0CG48;Q8NEU8;Q9NZ52;Q8NEZ2;Q96EV8;Q8N1B4;Q14653;P62987;Q15750;Q99816;Q9NV92;O75436;Q5VIR6;Q9UBQ0;P0CG47;Q9NZZ3;O60664;Q96H20;A5D8V6;Q96EK6;O75674;Q9H9H4;P62979;Q9NYJ8}

1888 Pathogen[ P03346] interacts with 55 human partners:{Q13596;O60664;Q5VIR6;Q86XT2;A5D8V6;Q9H6Q3;P62987;Q9HD42;Q9UH99;P0CG48;Q8NEZ2;Q99816;Q9NZD8;Q9H1H9;Q93050;Q7Z614;Q9UK41;Q9UBQ0;Q92562;Q9NV92;Q6P3W7;P61077;Q96H20;Q96FZ7;Q8N5C8;Q9NZZ3;O75843;O60493;Q8NEU8;Q96EV8;Q9NYJ8;Q9H9H4;Q9UJY4;Q8N1B4;Q5JSH3;Q9BRG1;Q15750;Q14653;P62979;O75436;Q8IUC6;Q96S99;P0CG47;Q9NP79;Q9UKG1;O75351;O14617;O60749;O43318;Q9UJY5;Q92985;O75674;Q9NZ52;Q14164;Q86Y82}

1889 Pathogen[ Q85601] interacts with 49 human partners:{Q13596;Q99816;O60664;O75843;Q96S99;Q9NP79;Q08AM6;Q15750;Q9NYJ8;Q9UJY4;Q96H20;Q8IUC6;Q5JSH3;Q8NEU8;Q9BRG1;Q93050;Q9H9H4;Q9H1H9;P0CG48;Q7Z614;Q5VIR6;Q92562;Q9UJY5;P61077;Q96FZ7;Q8N5C8;Q9UH99;Q14653;Q14164;O75351;Q9UK41;Q9H6Q3;Q96EV8;Q8N1B4;Q92985;Q9NZZ3;Q96EK6;P62979;O75436;P0CG47;Q9UKG1;Q9UBQ0;P62987;O43318;Q8NEZ2;Q9NZ52;Q9HD42;O75674;A5D8V6}

1890 Pathogen[ P14079] interacts with 62 human partners:{Q9H9H4;Q9H295;Q92562;Q8N5C8;Q9UKG1;P0CG48;Q9UJY4;Q96H20;O43187;Q14653;Q8NEU8;P61421;O60664;Q9UJY5;O60493;Q86XT2;Q8IUC6;Q92985;Q9H1K0;Q9NP79;Q14164;Q9HD42;O75674;Q15750;P62979;Q96S99;Q9H3E2;P61077;P62987;Q9NZ52;O00461;O75843;Q9Y287;Q5JSH3;Q9H1H9;A5D8V6;O60749;Q8N8Y2;Q8NEZ2;Q5VIR6;Q13596;Q9H6Q3;Q8N1B4;Q7Z614;O60831;Q96FZ7;Q93050;Q9UBQ0;Q9Y6Y9;Q96EV8;Q96EK6;O75351;Q9NV92;O14617;Q9NZZ3;O75436;Q9BRG1;Q9UH99;Q99816;P0CG47;Q99836;Q6UWI2}

1891 Pathogen[ P03383] interacts with 36 human partners:{Q9UJY4;Q14653;P62987;Q8IUC6;Q9NZD8;Q8N1B4;Q96H20;Q8NEU8;Q9NZZ3;Q9UH99;Q8NEZ2;Q99816;Q7Z614;O43318;Q96EV8;P61077;Q9H1H9;Q8N5C8;Q92985;Q9UK41;O75843;Q9UJY5;Q9H9H4;Q9BRG1;Q9HD42;O75436;P62979;P0CG47;P0CG48;O60831;Q9UBQ0;Q9NYJ8;O60664;Q5VIR6;Q15750;Q9NZ52}

1892 Pathogen[ P03410] interacts with 63 human partners:{Q92562;Q5JSH3;P0CG48;Q7Z614;Q8N8Y2;Q96S99;Q86XT2;Q9H9H4;Q13596;Q9NZ52;Q9NP79;O75351;Q9H1H9;O75674;Q9H3E2;Q15750;O75843;P61421;Q9UH99;O60749;Q14653;Q8N1B4;O43187;Q93050;Q9Y287;Q96EK6;O60664;P62979;Q9NV92;O00461;Q14617;Q9UJY5;A5D8V6;Q9UBQ0;Q99816;O43318;Q8NEZ2;Q08AM6;Q6UWI2;Q9NYJ8;Q9HD42;Q8N5C8;Q9NZZ3;Q9H1K0;O75436;Q9BRG1;Q96FZ7;Q9Y6Y9;P62987;Q8IUC6;Q8NEU8;Q5VIR6;Q92985;O60831;Q96H20;Q96EV8;Q9UKG1;P0CG47;Q9UJY4;O60493;P61077;Q5MNZ9;Q9H6Q3}

1893 Pathogen[ P14075] interacts with 42 human partners:{Q9UJY4;Q9H1H9;Q15750;Q8N1B4;Q9NP79;Q9NZ52;Q9UBQ0;Q7Z614;Q9UK41;Q8NEU8;Q9NZD8;P61077;Q8NEZ2;Q96H20;Q8N5C8;O00461;Q9H9H4;O60831;P0CG48;P62979;Q14653;O43318;Q9NZZ3;P62987;Q5VIR6;Q8IUC6;O75436;Q96EV8;Q9NV92;P0CG47;Q9UH99;O75843;Q9HD42;Q9BRG1;Q92985;Q99816;Q9Y287;Q96EK6;Q6UWI2;Q9UJY5;O60664;Q9NYJ8}

1894 Pathogen[ P0C206] interacts with 61 human partners:{Q9BRG1;P0CG48;Q9UKG1;Q8NEZ2;Q9H6Q3;Q9Y287;Q8NEU8;Q92562;O60664;Q8N5C8;Q9NV92;Q9UH99;Q9H1K0;O43318;O60493;Q9UJY4;O60831;Q13596;Q99816;Q9H1H9;Q6P3W7;Q9UK41;Q9H9H4;Q9UBQ0;O60749;Q14164;A5D8V6;Q5VIR6;Q96H20;Q9NZ52;Q9H3E2;Q96EV8;Q92985;Q9UJY5;Q86XT2;O00461;P62979;Q9NYJ8;Q96S99;Q96EK6;Q7Z614;P0CG47;Q8IUC6;O75436;O14617;O75843;Q9HD42;Q6UWI2;P61077;Q15750;Q9NP79;Q5JSH3;Q9NZZ3;Q96FZ7;P62987;Q8N1B4;O75351;O75674;Q93050;Q08AM6;Q14653}

1895 Pathogen[ P03363] interacts with 39 human partners:{Q14653;Q92985;O60664;Q9UJY4;Q8N1B4;Q9NYJ8;Q9NZ52;O75436;Q9H6Q3;Q9NZZ3;O43318;Q96H20;O60493;Q15750;O60749;O75351;Q8NEU8;Q9BRG1;Q9UK41;O75674;P62987;Q7Z614;Q9UBQ0;Q5VIR6;Q8NEZ2;O75843;Q99816;Q13596;P61077;Q9NZD8;Q9H1H9;Q9NP79;Q8N5C8;Q9H9H4;Q9UJY5;Q9UKG1;Q9HD42;Q9UH99;A5D8V6}

1896 [Cluster 173]GO:0055038+C cellular\_component [name] recycling endosome membrane [def] "The lipid bilayer surrounding a recycling endosome." [GOC

1897 Pathogen[ Q2Q067] interacts with 7 human partners:{O15126;Q7L804;O15127;Q8TAC9;O75154;Q92597;Q9BXF6}

1898 Pathogen[ P0C214] interacts with 7 human partners:{Q8TAC9;O15127;Q7L804;Q92597;O15126;Q9BXF6;O75154}



1899 Pathogen[ P03346] interacts with 9 human  
partners:{A8K0Z3;Q7L804;Q8TAC9;Q92597;O15126;Q9BXF6;Q86YS3;O75154;O15127}

1900 Pathogen[ Q85601] interacts with 8 human  
partners:{O15126;O75154;Q7L804;Q8TAC9;Q86YS3;Q9BXF6;O15127;Q92597}

1901 Pathogen[ P14079] interacts with 9 human  
partners:{Q7L804;Q6VEQ5;Q86YS3;Q92597;Q9BXF6;Q8TAC9;Q9NQA3;A8K0Z3;O75154}

1902 Pathogen[ P03383] interacts with 7 human  
partners:{Q7L804;O15126;Q8TAC9;Q92597;Q9BXF6;O15127;O75154}

1903 Pathogen[ P03410] interacts with 11 human  
partners:{Q7L804;O75154;Q8TAC9;Q86YS3;O15127;Q9BXF6;Q6VEQ5;Q92597;O15126;Q9NQA3;A8K0Z3}

1904 Pathogen[ P14075] interacts with 7 human  
partners:{O15127;O15126;Q7L804;Q9BXF6;Q8TAC9;Q92597;O75154}

1905 Pathogen[ P0C206] interacts with 9 human  
partners:{Q92597;O15127;Q9BXF6;O75154;Q6VEQ5;Q7L804;Q8TAC9;O15126;Q86YS3}

1906 Pathogen[ P03363] interacts with 6 human  
partners:{Q7L804;Q92597;O75154;Q9BXF6;O15126;O15127}

1907 [Cluster 174]GO:0030478+C cellular\_component [name] actin cap [def] "Polarized accumulation of cytoskeletal proteins (including F-actin) and regulatory proteins in a cell. An example of this is the actin cap found in *Saccharomyces cerevisiae*." [GOC]

1908 Pathogen[ Q2Q067] interacts with 1 human partners:{O00401}

1909 Pathogen[ P0C214] interacts with 1 human partners:{O00401}

1910 Pathogen[ P03346] interacts with 1 human partners:{O00401}

1911 Pathogen[ Q85601] interacts with 1 human partners:{O00401}

1912 Pathogen[ P14079] interacts with 2 human partners:{Q05682;O00401}

1913 Pathogen[ P03383] interacts with 1 human partners:{O00401}

1914 Pathogen[ P03410] interacts with 2 human partners:{Q05682;O00401}

1915 Pathogen[ P14075] interacts with 1 human partners:{O00401}

1916 Pathogen[ P0C206] interacts with 1 human partners:{O00401}

1917 Pathogen[ P03363] interacts with 1 human partners:{O00401}

1918 [Cluster 175]GO:0005853+C cellular\_component [name] eukaryotic translation elongation factor 1 complex [def] "A multisubunit nucleotide exchange complex that binds GTP and aminoacyl-tRNAs, and catalyzes their codon-dependent placement at the A-site of the ribosome. In humans, the complex is composed of four subunits, alpha, beta, delta and gamma." [GOC]

1919 Pathogen[ Q2Q067] interacts with 4 human partners:{P29692;P24534;P26641;P68104}

1920 Pathogen[ P0C214] interacts with 4 human partners:{P29692;P26641;P24534;Q05639}

1921 Pathogen[ P03346] interacts with 4 human partners:{P26641;P29692;P24534;P68104}

1922 Pathogen[ Q85601] interacts with 5 human  
partners:{P26641;P24534;P68104;P29692;Q05639}

1923 Pathogen[ P14079] interacts with 4 human partners:{P68104;P26641;P29692;P24534}

1924 Pathogen[ P03383] interacts with 4 human partners:{P24534;P26641;P68104;P29692}

1925 Pathogen[ P03410] interacts with 4 human partners:{P68104;P24534;P26641;P29692}

1926 Pathogen[ P14075] interacts with 4 human partners:{P68104;P26641;P29692;P24534}

1927 Pathogen[ P0C206] interacts with 4 human partners:{P26641;P24534;P29692;P68104}

1928 Pathogen[ P03363] interacts with 4 human partners:{P26641;P29692;P24534;P68104}

1929 [Cluster 176]GO:0005883+C cellular\_component [name] neurofilament [def] "A type of intermediate filament found in the core of neuronal axons. Neurofilaments are heteropolymers composed of three type IV polypeptides

1930 Pathogen[ Q2Q067] interacts with 8 human  
partners:{O14786;P07196;P41219;Q9P1A6;Q9H2C0;P12036;Q16352;P07197}

1931 Pathogen[ P0C214] interacts with 8 human  
partners:{O14786;P41219;Q16352;Q9P1A6;P12036;P07197;Q9H2C0;P07196}

1932 Pathogen[ P03346] interacts with 8 human  
partners:{Q16352;P07196;Q9H2C0;P07197;P12036;P41219;O14786;Q9P1A6}

1933 Pathogen[ Q85601] interacts with 8 human  
partners:{P07196;P12036;Q9P1A6;O14786;Q9H2C0;P41219;P07197;Q16352}

1934 Pathogen[ P14079] interacts with 6 human  
partners:{P41219;P12036;P07196;Q9H2C0;P07197;Q9P1A6}

1935 Pathogen[ P03383] interacts with 7 human  
partners:{Q9P1A6;Q16352;P12036;Q9H2C0;P41219;P07197;P07196}

1936 Pathogen[ P03410] interacts with 8 human  
partners:{Q9P1A6;O14786;P12036;Q16352;P07196;P41219;Q9H2C0;P07197}

1937 Pathogen[ P14075] interacts with 7 human  
partners:{Q16352;Q9H2C0;P41219;P12036;Q9P1A6;P07197;P07196}

1938 Pathogen[ P0C206] interacts with 8 human  
partners:{P07196;P41219;O14786;P12036;Q16352;Q9H2C0;Q9P1A6;P07197}

1939 Pathogen[ P03363] interacts with 8 human  
partners:{P07197;Q16352;O14786;P07196;P41219;Q9P1A6;P12036;Q9H2C0}

1940 [Cluster 177]GO:0000177+C cellular\_component [name] cytoplasmic exosome (RNase complex) [def] "Complex of 3'-5' exoribonucleases found in the cytoplasm." [PMID]

1941 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9Y2V2;Q8TF46}

1942 Pathogen[ P0C214] interacts with 2 human partners:{Q9Y2V2;Q8TF46}

1943 Pathogen[ P03346] interacts with 3 human partners:{Q9Y2V2;Q9NQT5;Q8TF46}

1944 Pathogen[ Q85601] interacts with 2 human partners:{Q9Y2V2;Q8TF46}

1945 Pathogen[ P14079] interacts with 3 human partners:{Q8TF46;O00178;Q9Y2V2}

1946 Pathogen[ P03383] interacts with 1 human partners:{Q9Y2V2}

1947 Pathogen[ P03410] interacts with 3 human partners:{Q8TF46;Q9Y2V2;O00178}

1948 Pathogen[ P14075] interacts with 1 human partners:{Q9Y2V2}

1949 Pathogen[ P0C206] interacts with 2 human partners:{Q9Y2V2;Q8TF46}

1950 Pathogen[ P03363] interacts with 3 human partners:{Q9Y2V2;Q9NQT5;Q8TF46}

1951 [Cluster 178]GO:0043198+C cellular\_component [name] dendritic shaft [def] "Cylindric portion of the dendrite, directly stemming from the perikaryon, and carrying the dendritic spines." [GOC

1952 Pathogen[ Q2Q067] interacts with 1 human partners:{Q92796}

1953 Pathogen[ P0C214] interacts with 1 human partners:{Q92796}

1954 Pathogen[ P03346] interacts with 5 human partners:{O14908;Q96A65;Q92796;Q9P021;P11137}

1955 Pathogen[ Q85601] interacts with 2 human partners:{Q96A65;Q92796}

1956 Pathogen[ P14079] interacts with 6 human partners:{P24588;Q96A65;Q9P021;P11137;Q92796;O14908}

1957 Pathogen[ P03383] interacts with 1 human partners:{Q92796}

1958 Pathogen[ P03410] interacts with 6 human partners:{P11137;O14908;Q96A65;Q92796;Q9P021;P24588}

1959 Pathogen[ P14075] interacts with 1 human partners:{Q92796}

1960 Pathogen[ P0C206] interacts with 5 human partners:{Q9P021;Q96A65;P11137;O14908;Q92796}

1961 Pathogen[ P03363] interacts with 5 human partners:{Q9P021;P11137;O14908;Q96A65;Q92796}

1962 [Cluster 179]GO:0005684+C cellular\_component [name] U2-type spliceosomal complex [def] "Any spliceosomal complex that forms during the splicing of a messenger RNA primary transcript to excise an intron that has canonical consensus sequences near the 5' and 3' ends." [GOC

1963 Pathogen[ Q2Q067] interacts with 2 human partners:{Q15459;Q8WWY3}

1964 Pathogen[ P0C214] interacts with 2 human partners:{Q15459;Q8WWY3}

1965 Pathogen[ P03346] interacts with 2 human partners:{Q15459;Q8WWY3}

1966 Pathogen[ Q85601] interacts with 2 human partners:{Q15459;Q8WWY3}

1967 Pathogen[ P14079] interacts with 2 human partners:{Q8WWY3;Q15459}

1968 Pathogen[ P03383] interacts with 2 human partners:{Q15459;Q8WWY3}

1969 Pathogen[ P03410] interacts with 2 human partners:{Q8WWY3;Q15459}

1970 Pathogen[ P14075] interacts with 2 human partners:{Q15459;Q8WWY3}

1971 Pathogen[ P0C206] interacts with 2 human partners:{Q8WWY3;Q15459}

1972 Pathogen[ P03363] interacts with 2 human partners:{Q15459;Q8WWY3}

1973 [Cluster 180]GO:0035189+C cellular\_component [name] Rb-E2F complex [def] "A multiprotein complex containing a heterodimeric E2F transcription factor and a Retinoblastoma (Rb) family member. This complex is capable of repressing transcription of E2F-regulated genes in order to regulate cell cycle progression." [PMID

1974 Pathogen[ Q2Q067] interacts with 4 human partners:{P06400;Q01094;P55345;P49715}

1975 Pathogen[ P0C214] interacts with 3 human partners:{P55345;Q01094;P06400}

1976 Pathogen[ P03346] interacts with 4 human partners:{P06400;Q01094;P49715;P55345}

1977 Pathogen[ Q85601] interacts with 4 human partners:{P06400;P49715;Q01094;P55345}

1978 Pathogen[ P14079] interacts with 3 human partners:{P55345;P49715;Q01094}

1979 Pathogen[ P03383] interacts with 2 human partners:{Q01094;P06400}

1980 Pathogen[ P03410] interacts with 3 human partners:{P06400;Q01094;P55345}

1981 Pathogen[ P14075] interacts with 2 human partners:{Q01094;P06400}

1982 Pathogen[ P0C206] interacts with 4 human partners:{P49715;Q01094;P55345;P06400}

1983 Pathogen[ P03363] interacts with 2 human partners:{P06400;Q01094}

1984 [Cluster 181]GO:0005759+C cellular\_component [name] mitochondrial matrix [def] "The gel-like material, with considerable fine structure, that lies in the matrix space, or lumen, of a mitochondrion. It contains the enzymes of the tricarboxylic acid cycle and, in some organisms, the enzymes concerned with fatty acid oxidation." [GOC

1985 Pathogen[ Q2Q067] interacts with 53 human partners:{O95363;P51398;Q9ULD0;O00411;Q9H2U2;Q9HAV7;Q9H5Q4;Q16775;Q9Y6E7;P10515;P22033;P49419;P36639;P38117;Q15046;Q99551;P61604;P30084;P07954;Q9Y237;Q8TAA5;Q5T160;Q9NTG7;P22557;P21953;P13196;Q06609;Q96I59;Q07021;Q00059;Q96EH3;Q9P2R7;Q8N1Q8;Q9Y697;O43615;P04818;Q32P41;Q9UI32;O94925;Q6PI48;P40926;Q9HA77;Q9BW92;P41250;Q49AM1;A6NFY7;Q96EY1;Q16836;Q96QE5;P78537;Q8N163;O95571;P24539}

1986 Pathogen[ P0C214] interacts with 100 human partners:{Q16795;P41250;Q8N163;P30084;P49419;O00411;Q96QE5;Q05932;Q9NSE4;Q06609;Q7L3T8;Q9NVH6;O95363;Q8NCN5;P04818;Q9UGM6;P00480;P11177;Q16775;Q16740;Q9HAV7;Q86XF0;Q96I59;O75390;Q9NP81;A6NFY7;P49590;P12694;P07954;O95299;P30405;P61604;P34897;P48735;P78537;Q9UI32;Q49AM1;Q5JPH6;P40926;P22557;Q15031;P13196;P36542;O95571;O14561;Q99798;Q9P2R7;Q00059;Q9Y237;Q9UI17;P50213;P22033;Q9Y697;P51398;Q8N1Q8;O43837;P21953;Q9NTG7;O43615;P24539;O15382;P36639;Q9ULD0;P10809;Q8TAA5;Q9HA77;Q6NVY1;P38117;Q96GW9;Q9P0J1;P09622;Q32P41;Q9UL12;Q8N3J5;Q16822;O94925;Q96I99;Q5T160;P47897;Q9BW92;Q6PI48;Q16698;Q15046;P22830;Q8N159;Q16762;P10515;Q96PE7;Q9Y6E7;Q99551;Q9P2J9;P13804;Q16798;Q96EY1;Q96EH3;P36957;P51553;Q9Y2Z4;Q9H5Q4;Q6IB77}

1987 Pathogen[ P03346] interacts with 48 human partners:{O75390;Q9H2U2;Q96PE7;Q06609;Q8N163;Q8NHU6;Q16836;Q32P41;Q00059;P61604;O43615;Q8NCN5;P36639;Q9ULD0;Q07021;Q9Y697;A6NFY7;P22557;P13196;Q96EH3;Q9Y6E7;P41250;Q9HAV7;P51398;Q9UI32;P49419;Q9Y237;P24539;P78537;Q9H5Q4;P40926;O00411;Q99551;P38117;Q07820;O94925;Q96QE5;Q6PI48;Q16775;P07954;P10515;Q49AM1;Q8N1Q8;Q9NTG7;Q8TAA5;Q96EY1;O95571;P

- 30084}
- 1988 Pathogen[ Q85601] interacts with 55 human  
partners: {P30405;Q32P41;O94925;P24539;Q8TAA5;P00480;P61604;Q9Y697;P36639;Q96QE5;Q00059;Q49AM1;Q15046;Q9BW92;P13196;P21953;Q9P2R7;Q9Y6E7;Q9HA77;P07954;P41250;P51398;A6NFY7;Q5T160;Q8N1Q8;Q99551;P78537;Q9H2U2;Q9HAV7;P22033;Q96I59;O43615;Q6IB77;O95363;Q8N163;Q16836;P47897;Q6PI48;Q9H5Q4;Q9UI32;Q16775;P10515;O00411;Q9ULD0;O95571;Q07021;Q06609;Q9NTG7;Q9Y237;P30084;O15382;Q96EY1;P40926;P49419;Q8N3J5}
- 1989 Pathogen[ P14079] interacts with 83 human  
partners: {Q6P4F2;Q86XF0;P36542;O43615;Q8N159;P21953;P13196;Q96GW9;P07954;Q7L3T8;Q9BW92;Q8N163;P25705;Q15031;Q5T160;Q9Y237;P10109;Q49AM1;Q8NHU6;Q9NP81;P47897;O95363;P22557;Q96EH3;Q9NVH6;P30084;P13804;P34897;P36241;Q9P2R7;Q16740;P61604;Q9HA77;Q5JPH6;Q9H2U2;O95571;Q00059;P38117;O94925;Q15046;P36639;A6NFY7;Q6IB77;O14561;P41250;Q9UL12;Q96I59;Q9Y697;O95299;P22033;Q96PE7;Q9UI32;P22830;Q9Y2Z4;P00480;O00411;Q9UI17;Q16762;Q16775;P10515;Q9UGM6;Q9NSE4;Q8NCN5;P56381;Q9H5Q4;O15382;P51398;Q6PI48;P24539;Q9NTG7;Q06609;Q07021;O75616;P04818;P78537;Q05932;Q96EY1;Q8N1Q8;Q99551;Q9ULD0;Q16836;Q9HAV7;Q8TAA5}
- 1990 Pathogen[ P03383] interacts with 52 human  
partners: {P51398;Q06609;A6NFY7;Q9H2U2;O94925;P40926;Q8N163;P36639;Q96EH3;Q5JPH6;Q8N1Q8;Q5T160;Q15031;P61604;O43615;Q16836;Q9HAV7;Q9P2R7;Q00059;Q9NP81;Q9H5Q4;P78537;Q32P41;Q9Y697;Q9ULD0;Q16822;Q9NTG7;Q99551;Q8N159;Q96I59;Q15046;Q9Y2Z4;O95363;Q9Y6E7;P22033;Q96GW9;Q16775;Q9HA77;Q8TAA5;P10515;Q07021;Q6PI48;O00411;P41250;O95571;Q49AM1;Q7L3T8;P24539;Q96EY1;P49419;Q96QE5;Q9BW92}
- 1991 Pathogen[ P03410] interacts with 93 human  
partners: {Q32P41;Q9P2R7;P78537;P30084;Q9HA77;Q16822;Q9NTG7;O75127;Q9NSE4;P13804;Q8N3J5;Q9ULD0;Q49AM1;A6NFY7;P36542;Q9NVH6;Q9UI17;Q8N159;P36639;P25705;Q96PE7;O95299;Q9BW92;Q8NHU6;Q6IB77;P61604;Q00059;Q8TAA5;P12694;Q07021;Q7L3T8;Q6NVY1;P21953;P47897;Q6P4F2;Q9Y697;Q9H2U2;O00411;P38117;Q96EH3;O94925;Q96QE5;P56381;P00480;P22557;O95571;Q8N163;P04818;Q96I59;Q16762;P07954;O14561;Q86XF0;Q16775;O15382;P22830;Q9UL12;O43615;P41250;P49419;P55809;P24539;Q15046;Q9H5Q4;Q8N1Q8;Q5JPH6;Q16836;P40926;Q8NCN5;Q9UGM6;Q9Y2Z4;Q96GW9;P10109;Q9UI32;Q9HAV7;Q9NP81;Q16740;Q9Y237;Q05932;P13196;O95363;Q99551;P10515;Q6PI48;Q5T160;Q96EY1;P30405;P34897;P22033;O75390;Q06609;P51398;O75616}
- 1992 Pathogen[ P14075] interacts with 57 human  
partners: {Q9Y2Z4;Q00059;Q9NVH6;P78537;A6NFY7;Q9HAV7;Q9H5Q4;Q96EH3;P41250;Q07021;P61604;Q16822;P36639;Q8TAA5;Q8N159;O95363;Q8N1Q8;P40926;Q8NCN5;Q96GW9;O95571;O14561;Q8N163;Q9HA77;Q9NP81;Q32P41;P51398;Q9Y6E7;P49419;Q7L3T8;O00411;P22033;Q9NTG7;Q49AM1;Q9BW92;Q16836;Q99551;Q5T160;P10515;P24539;Q9H2U2;Q9ULD0;O94925;P38117;Q6PI48;Q96I59;Q5JPH6;Q15046;Q9NSE4;Q15031;Q96QE5;Q96EY1;Q06609;O43615;Q16775;Q9P2R7;Q9Y697}
- 1993 Pathogen[ P0C206] interacts with 83 human  
partners: {O95363;Q9NSE4;Q49AM1;Q96PE7;P78537;Q9Y2Z4;P36639;P50213;Q9ULD0;Q07021;Q6PI48;Q32P41;O15382;Q16836;P36542;Q9Y697;A6NFY7;Q9HAV7;Q9UGM6;Q8N1Q8;Q9NVH6;Q5JPH6;Q9NP81;Q16822;P21953;Q9HA77;P38117;Q9P2R7;P34897;Q96QE5;P41250;Q99551;P51398;Q8N159;O14561;Q16775;O43615;Q96EH3;P30084;P22557;Q16740;Q5T160;Q9BW92;Q6IB77;P40926;P22830;P24539;Q9H2U2;Q8TAA5;P04818;Q9UI32;Q9Y237;O94925;Q9H5Q4;O75390;P56381;Q06609;P49419;Q15031;Q99798;Q16762;P13196;Q7L3T8;Q9NTG7;P30405;P07954;Q00059;P22033;Q96EY1;Q8NCN5;Q8N3J5;P10515;Q8N163;O95571;P47897;P00480;Q9Y6E7;Q96GW9;P61604;Q96I59;Q05932;Q15046;O00411}
- 1994 Pathogen[ P03363] interacts with 45 human  
partners: {Q32P41;Q9Y6E7;Q9Y2Z4;Q16836;O00411;Q9H2U2;P49419;Q8NHU6;Q96I59;P41250;P78537;O94925;Q9ULD0;P47897;Q5JPH6;Q49AM1;Q9Y697;O95571;Q07021;A6NFY7;O43615;Q96QE5;Q6PI48;Q8N163;Q8TAA5;Q00059;O95363;Q96EH3;Q9UI32;Q9Y237;Q9BW92;P10515;P13196;Q07820;Q06609;Q7L3T8;Q9NTG7;Q15031;Q96EY1;P36639;P51398;Q5T160;Q99551;P61604;Q9H5Q4}
- 1995 [Cluster 182]GO:0032807+C cellular\_component [name] DNA ligase IV complex [def] "A eukaryotically conserved protein complex that contains DNA ligase IV and is involved in DNA repair by non-homologous end joining\_ in addition to the ligase, the complex also contains XRCC4 or a homolog, e.g. Saccharomyces Liflp." [PMID
- 1996 Pathogen[ Q2Q067] interacts with 1 human partners: {Q13426}
- 1997 Pathogen[ P0C214] interacts with 1 human partners: {Q13426}
- 1998 Pathogen[ P03346] interacts with 1 human partners: {Q13426}
- 1999 Pathogen[ Q85601] interacts with 1 human partners: {Q13426}
- 2000 Pathogen[ P14079] interacts with 2 human partners: {Q13426;P49917}
- 2001 Pathogen[ P03383] interacts with 1 human partners: {Q13426}
- 2002 Pathogen[ P03410] interacts with 1 human partners: {Q13426}
- 2003 Pathogen[ P14075] interacts with 1 human partners: {Q13426}
- 2004 Pathogen[ P0C206] interacts with 2 human partners: {P49917;Q13426}
- 2005 Pathogen[ P03363] interacts with 1 human partners: {Q13426}
- 2006 [Cluster 183]GO:0035371+C cellular\_component [name] microtubule plus end [def] "The growing (plus) end of a microtubule. In vitro, microtubules polymerize more quickly at the plus end than at the minus end. In vivo, microtubule growth occurs only at the plus end, and the plus end switches between periods of growth and shortening, a behavior known as dynamic instability." [GOC
- 2007 Pathogen[ Q2Q067] interacts with 5 human  
partners: {Q14008;Q96R06;Q9P270;Q9Y448;Q15691}
- 2008 Pathogen[ P0C214] interacts with 5 human  
partners: {Q14008;Q96R06;Q15691;Q9P270;Q9Y448}
- 2009 Pathogen[ P03346] interacts with 6 human  
partners: {Q96R06;Q15691;Q14008;P30622;Q9Y448;Q9P270}
- 2010 Pathogen[ Q85601] interacts with 6 human  
partners: {Q14008;P30622;Q96R06;Q9Y448;Q15691;Q9P270}

2011 Pathogen[ P14079] interacts with 6 human partners:{Q15691;Q96R06;Q9Y448;Q9P270;P30622;Q14008}

2012 Pathogen[ P03383] interacts with 5 human partners:{Q14008;Q15691;Q96R06;Q9Y448;Q9P270}

2013 Pathogen[ P03410] interacts with 6 human partners:{P30622;Q14008;Q96R06;Q9Y448;Q15691;Q9P270}

2014 Pathogen[ P14075] interacts with 5 human partners:{Q96R06;Q15691;Q14008;Q9P270;Q9Y448}

2015 Pathogen[ P0C206] interacts with 5 human partners:{Q14008;Q15691;Q9Y448;P30622;Q9P270}

2016 Pathogen[ P03363] interacts with 6 human partners:{Q15691;P30622;Q96R06;Q9P270;Q14008;Q9Y448}

2017 [Cluster 184]GO:0002193+C cellular\_component [name] MAML1-RBP-Jkappa- ICN1 complex [def] "A protein complex that consists of the intracellular domain of Notch1 (ICN1), the DNA-binding transcription factor RBP-Jkappa, and the transcriptional coactivator Mastermind-like-1 (MAML1)\_ the complex is involved in transcriptional activation in response to Notch-mediated signaling." [CORUM

2018 Pathogen[ Q2Q067] interacts with 2 human partners:{Q92585;Q06330}

2019 Pathogen[ P0C214] interacts with 2 human partners:{Q92585;Q06330}

2020 Pathogen[ P03346] interacts with 2 human partners:{Q06330;Q92585}

2021 Pathogen[ Q85601] interacts with 2 human partners:{Q92585;Q06330}

2022 Pathogen[ P14079] interacts with 2 human partners:{Q06330;Q92585}

2023 Pathogen[ P03383] interacts with 2 human partners:{Q06330;Q92585}

2024 Pathogen[ P03410] interacts with 2 human partners:{Q06330;Q92585}

2025 Pathogen[ P14075] interacts with 2 human partners:{Q92585;Q06330}

2026 Pathogen[ P0C206] interacts with 2 human partners:{Q06330;Q92585}

2027 Pathogen[ P03363] interacts with 2 human partners:{Q06330;Q92585}

2028 [Cluster 185]GO:0005912+C cellular\_component [name] adherens junction [def] "A cell junction at which anchoring proteins (cadherins or integrins) extend through the plasma membrane and are attached to actin filaments." [GOC

2029 Pathogen[ Q2Q067] interacts with 12 human partners:{Q9BTW9;Q14160;A6NIX2;Q96TA1;Q9P1Y5;Q9Y2D8;O15061;Q9UQB3;Q07157;Q9UGP4;Q9UDY2;Q9BX66}

2030 Pathogen[ P0C214] interacts with 13 human partners:{Q9UGP4;O15061;Q9Y2D8;Q9BTW9;Q9P1Y5;Q9BX66;Q9UQB3;A6NIX2;Q15124;Q96TA1;Q14160;Q9UDY2;Q07157}

2031 Pathogen[ P03346] interacts with 16 human partners:{Q9UGP4;Q9UDY2;Q9Y2D8;O15061;Q9P1Y5;Q9BX66;P55196;Q8TEW0;Q9UQB3;Q96TA1;Q5T2T1;Q07157;A6NIX2;Q8N157;Q14160;Q6IQ23}

2032 Pathogen[ Q85601] interacts with 14 human partners:{A6NIX2;Q9BX66;Q9UDY2;Q9P1Y5;Q9BTW9;Q6IQ23;Q9UQB3;Q96TA1;Q15124;Q9Y2D8;Q14160;Q07157;Q9UGP4;O15061}

2033 Pathogen[ P14079] interacts with 20 human partners:{Q9BTW9;Q6IQ23;Q9UDY2;Q9P266;Q9HBM0;Q07157;Q8N157;Q5T2T1;Q9UQB3;Q15124;O15061;Q8TEW0;A6NIX2;Q9P1Y5;Q9UKB5;Q96TA1;Q9Y2D8;Q9BX66;O15259;Q9UGP4}

2034 Pathogen[ P03383] interacts with 10 human partners:{Q14160;A6NIX2;O15061;Q07157;Q9UQB3;Q96TA1;Q9UGP4;Q9P1Y5;Q9Y2D8;Q9UDY2}

2035 Pathogen[ P03410] interacts with 20 human partners:{Q96TA1;Q9HBM0;O15061;O15259;Q9P1Y5;Q9UGP4;Q15124;Q14160;Q5T2T1;A6NIX2;Q9UDY2;Q07157;Q9BTW9;Q8N157;Q9P266;Q8TEW0;Q9UQB3;Q9BSN7;Q9BX66;Q6IQ23}

2036 Pathogen[ P14075] interacts with 12 human partners:{Q9P266;Q14160;Q07157;Q9UGP4;Q9Y2D8;O15061;Q96TA1;Q9UQB3;A6NIX2;Q9UDY2;Q9HBM0;Q9P1Y5}

2037 Pathogen[ P0C206] interacts with 20 human partners:{O15061;Q9UGP4;Q9BTW9;Q9P266;A6NIX2;Q96TA1;Q9UDY2;Q9Y2D8;Q15124;Q9P1Y5;Q8TEW0;Q5T2T1;P55196;Q14160;Q8N157;Q9BX66;Q07157;Q9HBM0;Q9UQB3;Q6IQ23}

2038 Pathogen[ P03363] interacts with 16 human partners:{Q9BX66;O15061;Q14160;Q9Y2D8;Q5T2T1;Q07157;Q9UGP4;Q8N157;Q9P1Y5;Q9BTW9;Q9UDY2;A6NIX2;O15259;Q96TA1;Q9UQB3;Q6IQ23}

2039 [Cluster 186]GO:0042175+C cellular\_component [name] nuclear outer membrane-endoplasmic reticulum membrane network [def] "The continuous network of membranes encompassing the nuclear outer membrane and the endoplasmic reticulum membrane." [GOC

2040 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8TAT6}

2041 Pathogen[ P0C214] interacts with 1 human partners:{Q8TAT6}

2042 Pathogen[ P03346] interacts with 1 human partners:{Q8TAT6}

2043 Pathogen[ Q85601] interacts with 1 human partners:{Q8TAT6}

2044 Pathogen[ P14079] interacts with 2 human partners:{Q969M3;Q8TAT6}

2045 Pathogen[ P03383] interacts with 1 human partners:{Q8TAT6}

2046 Pathogen[ P03410] interacts with 2 human partners:{Q969M3;Q8TAT6}

2047 Pathogen[ P14075] interacts with 1 human partners:{Q8TAT6}

2048 Pathogen[ P0C206] interacts with 2 human partners:{Q8TAT6;Q969M3}

2049 Pathogen[ P03363] interacts with 1 human partners:{Q8TAT6}

2050 [Cluster 187]GO:0005769+C cellular\_component [name] early endosome [def] "A membrane-bounded organelle that receives incoming material from primary endocytic vesicles that have been generated by clathrin-dependent and clathrin-independent endocytosis\_ vesicles fuse with the early endosome to deliver cargo for sorting into

recycling or degradation pathways." [GOC  
2051 Pathogen[ Q2Q067] interacts with 23 human partners:{Q9P2Y5;O75351;Q63HQ0;O60296;O60784;Q99816;Q5VYK3;O43752;Q6ICB4;Q96L92;Q9H9C1;Q9HD42;Q9Y4E1;O60291;Q9Y3E7;Q9UPV9;Q9Y3C5;O60759;O75382;O14964;Q9BVN2;P49754;Q15276}  
2052 Pathogen[ P0C214] interacts with 24 human partners:{Q6ICB4;P49754;O75351;Q9UPV9;O60759;Q9Y4E1;Q9HD42;Q5VYK3;Q641Q2;O14964;Q9Y3C5;O60296;Q96L92;P10809;O43752;Q9P2Y5;Q9Y3E7;O60784;Q99816;O60291;Q9BVN2;Q5SNT6;Q9H9C1;Q63HQ0}  
2053 Pathogen[ P03346] interacts with 39 human partners:{Q13596;O75382;O43752;O95405;Q15036;Q9P253;Q92622;Q9Y3C5;Q9HD42;P49754;O60759;Q99816;O60296;O95630;Q4V328;O60784;A8K0Z3;Q9BUN8;Q14694;Q7Z3T8;Q9Y3E7;O60493;Q8N4B1;Q96L92;Q9UPV9;Q96AX1;Q5VYK3;Q8IUQ4;O60291;Q9UJ41;Q9Y4E1;Q9H9C1;O75351;O14964;Q9BVN2;Q9P2Y5;Q6ICB4;Q63HQ0;Q15276}  
2054 Pathogen[ Q85601] interacts with 26 human partners:{Q13596;Q5VYK3;Q99816;Q63HQ0;Q9P253;Q9P2Y5;Q9Y3C5;Q15036;O60759;Q9BVN2;P49754;Q9UPV9;Q9UJ41;Q9H9C1;O43752;Q96L92;O60291;O60296;O75351;Q6ICB4;O14964;O95630;O75382;Q9Y3E7;Q9HD42;O60784}  
2055 Pathogen[ P14079] interacts with 48 human partners:{Q15036;Q9Y4E1;P61421;Q9BVN2;Q9H9C1;O60493;Q63HQ0;Q15276;Q6VEQ5;O95405;Q9HD42;Q9UJ41;O60759;Q9GZP9;O60784;Q96L92;Q5VYK3;Q9H5N1;Q9H269;Q9BUN8;Q9NQA3;Q15075;Q641Q2;Q8N4B1;Q96AX1;Q8N8Q9;Q8N8Y2;Q9P253;Q13596;Q5SRD0;O60296;Q9NQ60;Q7Z3T8;Q6ICB4;A8K0Z3;Q4V328;O43752;Q9Y3E7;Q9Y3C5;O75351;P49754;Q7RTP0;Q99816;Q92622;Q9P2Y5;O75382;Q6UWI2;Q5SNT6}  
2056 Pathogen[ P03383] interacts with 19 human partners:{Q5VYK3;Q9Y3E7;Q9BUN8;Q9H9C1;Q99816;Q9Y4E1;P49754;Q4V328;Q96L92;O60296;Q9UPV9;Q9HD42;O60784;Q9P2Y5;O43752;O14964;Q63HQ0;Q15276;Q9BVN2}  
2057 Pathogen[ P03410] interacts with 49 human partners:{Q9BVN2;Q5SNT6;O95405;Q96L92;Q8N8Y2;Q9P2Y5;Q9UJ41;Q9NQ60;Q13596;Q8N4B1;O75351;O75382;P61421;Q5VYK3;Q9GZP9;Q9P253;O60759;Q99816;Q9Y3E7;Q6UWI2;Q9UPV9;Q9BUN8;Q9Y3C5;Q9HD42;Q641Q2;Q15049;Q15036;O60784;Q9Y4E1;P49754;Q6VEQ5;O60296;Q6ICB4;Q5SRD0;Q63HQ0;O43752;Q8N8Q9;Q9H9C1;O60291;Q7RTP0;Q9H5N1;Q4V328;Q9H269;Q9NQA3;Q7Z3T8;O60493;A8K0Z3;Q15276;Q96AX1}  
2058 Pathogen[ P14075] interacts with 21 human partners:{Q9P2Y5;O43752;Q9BVN2;O60296;Q9H9C1;Q4V328;Q9UPV9;Q9Y3E7;O14964;P49754;Q63HQ0;Q9BUN8;Q9HD42;Q99816;Q641Q2;Q6UWI2;Q9Y4E1;O60784;Q96L92;Q15276;Q5VYK3}  
2059 Pathogen[ P0C206] interacts with 45 human partners:{O14964;Q96L92;Q63HQ0;O60291;Q9P2Y5;O60784;Q641Q2;Q9Y3E7;O60759;O75382;O43752;P49754;Q8IWB7;Q8IUQ4;O95630;O60493;Q6ICB4;Q13596;Q99816;Q9Y4E1;Q15036;Q9UPV9;Q92622;Q7Z3T8;Q6VEQ5;O60296;Q9BUN8;Q9GZP9;O95405;Q96AX1;Q5SNT6;Q9UJ41;Q9H5N1;Q5VYK3;Q8N4B1;Q9P253;Q4V328;Q9HD42;Q6UWI2;O75351;Q9BW19;Q9H9C1;Q9Y3C5;Q15276;Q9BVN2}  
2060 Pathogen[ P03363] interacts with 30 human partners:{P49754;Q9UPV9;Q9P2Y5;Q9H9C1;Q6ICB4;O60291;Q9Y3C5;Q63HQ0;Q96L92;O60784;Q8N4B1;O60493;O60296;Q9UJ41;O75351;O95405;Q9Y4E1;Q92622;Q9Y3E7;O14964;O75382;Q9BVN2;Q96NW4;Q99816;Q13596;O60759;O43752;Q15276;Q5VYK3;Q9HD42}  
2061 [Cluster 188]GO:0030658+C cellular\_component [name] transport vesicle membrane [def] "The lipid bilayer surrounding a transport vesicle." [GOC  
2062 Pathogen[ Q2Q067] interacts with 2 human partners:{Q05084;Q13425}  
2063 Pathogen[ P0C214] interacts with 2 human partners:{Q13425;Q05084}  
2064 Pathogen[ P03346] interacts with 3 human partners:{Q13425;Q05084;P49755}  
2065 Pathogen[ Q85601] interacts with 2 human partners:{Q13425;Q05084}  
2066 Pathogen[ P14079] interacts with 3 human partners:{Q05084;P49755;Q0VAF6}  
2067 Pathogen[ P03383] interacts with 2 human partners:{Q05084;Q13425}  
2068 Pathogen[ P03410] interacts with 4 human partners:{P10645;Q13425;Q05084;Q0VAF6}  
2069 Pathogen[ P14075] interacts with 2 human partners:{Q13425;Q05084}  
2070 Pathogen[ P0C206] interacts with 3 human partners:{P49755;Q13425;Q05084}  
2071 Pathogen[ P03363] interacts with 2 human partners:{Q13425;Q05084}  
2072 [Cluster 189]GO:0008328+C cellular\_component [name] ionotropic glutamate receptor complex [def] "A multimeric assembly of four or five subunits which form a structure with an extracellular N-terminus and a large loop that together form the ligand binding domain. The C-terminus is intracellular. The ionotropic glutamate receptor complex itself acts as a ligand-gated ion channel\_ on binding glutamate, charged ions pass through a channel in the center of the receptor complex." [http  
2073 Pathogen[ Q2Q067] interacts with 2 human partners:{P78352;Q9UPX8}  
2074 Pathogen[ P0C214] interacts with 2 human partners:{Q9UPX8;P78352}  
2075 Pathogen[ P03346] interacts with 2 human partners:{P78352;Q9UPX8}  
2076 Pathogen[ Q85601] interacts with 2 human partners:{Q9UPX8;P78352}  
2077 Pathogen[ P14079] interacts with 2 human partners:{B4DS77;Q9UPX8}  
2078 Pathogen[ P03383] interacts with 1 human partners:{P78352}  
2079 Pathogen[ P03410] interacts with 3 human partners:{B4DS77;Q9UPX8;P78352}  
2080 Pathogen[ P14075] interacts with 1 human partners:{P78352}  
2081 Pathogen[ P0C206] interacts with 2 human partners:{P78352;Q9UPX8}  
2082 Pathogen[ P03363] interacts with 2 human partners:{Q9UPX8;P78352}  
2083 [Cluster 190]GO:0042734+C cellular\_component [name] presynaptic membrane [def] "A specialized area of membrane of the axon terminal that faces the plasma membrane of the neuron or muscle fiber with which the axon terminal establishes a synaptic junction\_ many

synaptic junctions exhibit structural presynaptic characteristics, such as conical, electron-dense internal protrusions, that distinguish it from the remainder of the axon plasma membrane." [GOC

2084 Pathogen[ Q2Q067] interacts with 6 human  
partners:{Q8IUD2;O00213;Q14160;Q9Y6H5;P15407;O15083}

2085 Pathogen[ P0C214] interacts with 6 human  
partners:{O00213;O15083;P15407;Q9Y6H5;Q14160;Q8IUD2}

2086 Pathogen[ P03346] interacts with 12 human  
partners:{O00213;Q6ZWB6;Q8IUD2;O15083;Q68DU8;Q9Y6H5;P15407;Q13492;Q96CX2;Q14160;P0C2W1;Q9NRD5}

2087 Pathogen[ Q85601] interacts with 7 human  
partners:{O00213;P15407;O15083;Q14160;Q96CX2;Q9Y6H5;Q8IUD2}

2088 Pathogen[ P14079] interacts with 8 human  
partners:{Q13492;Q9Y6H5;O00213;Q8IUD2;Q68DU8;O15083;P15407;Q96CX2}

2089 Pathogen[ P03383] interacts with 6 human  
partners:{O00213;Q14160;P15407;Q9Y6H5;Q8IUD2;O15083}

2090 Pathogen[ P03410] interacts with 11 human  
partners:{Q9Y6H5;Q68DU8;O00213;Q14160;Q6ZWB6;Q13492;Q9NRD5;Q8IUD2;Q96CX2;P15407;O15083}

2091 Pathogen[ P14075] interacts with 6 human  
partners:{O00213;Q9Y6H5;O15083;Q14160;Q8IUD2;P15407}

2092 Pathogen[ P0C206] interacts with 8 human  
partners:{P15407;Q96CX2;Q8IUD2;O00213;O15083;Q14160;Q9NRD5;Q9Y6H5}

2093 Pathogen[ P03363] interacts with 7 human  
partners:{Q9Y6H5;O00213;Q14160;P15407;O15083;Q96JB8;Q8IUD2}

2094 [Cluster 191]GO:0035631+C cellular\_component [name] CD40 receptor complex [def] "A protein complex that contains at least CD40 (a cell surface receptor of the tumour necrosis factor receptor (TNFR) superfamily), and other signaling molecules." [GOC

2095 Pathogen[ Q2Q067] interacts with 7 human  
partners:{Q9NR28;Q12933;Q13114;O14920;O00463;Q13490;O15111}

2096 Pathogen[ P0C214] interacts with 7 human  
partners:{O15111;Q13490;Q12933;Q13114;O00463;Q9NR28;O14920}

2097 Pathogen[ P03346] interacts with 7 human  
partners:{O00463;O15111;Q9NR28;Q13114;Q96EP0;Q13490;O14920}

2098 Pathogen[ Q85601] interacts with 7 human  
partners:{Q13490;O00463;O15111;Q9NR28;Q13114;Q12933;O14920}

2099 Pathogen[ P14079] interacts with 6 human  
partners:{O00463;Q96EP0;Q9NR28;Q12933;Q13114;Q13490}

2100 Pathogen[ P03383] interacts with 6 human  
partners:{O14920;O15111;Q13490;Q12933;Q9NR28;Q13114}

2101 Pathogen[ P03410] interacts with 7 human  
partners:{O14920;Q9NR28;O15111;Q13490;O00463;Q12933;Q13114}

2102 Pathogen[ P14075] interacts with 6 human  
partners:{O15111;Q9NR28;O14920;Q13490;Q12933;Q13114}

2103 Pathogen[ P0C206] interacts with 8 human  
partners:{O14920;Q13114;Q9NR28;Q12933;Q96EP0;O15111;O00463;Q13490}

2104 Pathogen[ P03363] interacts with 8 human  
partners:{Q13490;O14920;Q96EP0;O15111;Q12933;O00463;Q9NR28;Q13114}

2105 [Cluster 192]GO:0016469+C cellular\_component [name] proton-transporting two-sector ATPase complex [def] "A large protein complex that catalyzes the synthesis or hydrolysis of ATP by a rotational mechanism, coupled to the transport of protons across a membrane. The complex comprises a membrane sector (F0, V0, or A0) that carries out proton transport and a cytoplasmic compartment sector (F1, V1, or A1) that catalyzes ATP synthesis or hydrolysis. Two major types have been characterized

2106 Pathogen[ Q2Q067] interacts with 1 human partners:{P36543}

2107 Pathogen[ P0C214] interacts with 2 human partners:{Q16864;P36543}

2108 Pathogen[ P03346] interacts with 3 human partners:{P21283;P36543;Q16864}

2109 Pathogen[ Q85601] interacts with 1 human partners:{P36543}

2110 Pathogen[ P14079] interacts with 2 human partners:{P36543;Q16864}

2111 Pathogen[ P03383] interacts with 1 human partners:{P36543}

2112 Pathogen[ P03410] interacts with 2 human partners:{Q16864;P36543}

2113 Pathogen[ P14075] interacts with 1 human partners:{P36543}

2114 Pathogen[ P0C206] interacts with 2 human partners:{P36543;Q16864}

2115 Pathogen[ P03363] interacts with 1 human partners:{P36543}

2116 [Cluster 193]GO:0030016+C cellular\_component [name] myofibril [def] "The contractile element of skeletal and cardiac muscle\_ a long, highly organized bundle of actin, myosin, and other proteins that contracts by a sliding filament mechanism." [ISBN

2117 Pathogen[ Q2Q067] interacts with 8 human  
partners:{Q9UKX2;P15172;Q8N0Z2;P11532;P60900;Q15327;Q5VU43;P12883}

2118 Pathogen[ P0C214] interacts with 15 human  
partners:{Q15327;Q8N0Z2;Q9UKX2;Q9Y2K3;P11055;P15172;P11532;Q5VU43;P13535;P12882;P12883;P13533;P60900;Q9Y623;P63261}

2119 Pathogen[ P03346] interacts with 12 human  
partners:{A8MU46;Q8N0Z2;Q8WXH0;Q5BKY1;P15172;Q15327;P28289;P60900;Q9UKX2;P11532;Q5VU43;P10916}

2120 Pathogen[ Q85601] interacts with 15 human

2121 partners:{P60900;P15172;P13533;P11532;Q9UKX2;Q9Y2K3;P12882;P63261;P11055;Q15327;P12883;Q5VU43;P13535;Q8N0Z2;Q9Y623}  
Pathogen[ P14079] interacts with 13 human

2122 partners:{P63261;P11532;P10916;Q9UKX2;P60900;P28289;Q8WXH0;Q15327;P12883;Q8N0Z2;Q05682;Q5BKY1;Q5VU43}  
Pathogen[ P03383] interacts with 8 human

2123 partners:{P60900;P15172;Q5VU43;Q9UKX2;P11532;Q8N0Z2;P12883;Q15327}  
Pathogen[ P03410] interacts with 17 human

2124 partners:{Q9UKX2;P10916;P60900;Q05682;P11532;Q5BKY1;P28289;Q15327;A8MU46;P12882;Q5VU43;P12883;P63261;P13533;Q8N0Z2;P13535;Q8WXH0}  
Pathogen[ P14075] interacts with 7 human

2125 partners:{P11532;Q5VU43;Q9UKX2;P60900;P15172;Q15327;Q8N0Z2}  
Pathogen[ P0C206] interacts with 16 human

2126 partners:{P13533;Q9Y623;Q15327;P60900;P11055;Q5BKY1;P12883;P63261;P12882;Q5VU43;Q9UKX2;Q8WXH0;P15172;P11532;P13535;Q8N0Z2}  
Pathogen[ P03363] interacts with 11 human

2127 partners:{Q9UKX2;Q5BKY1;Q5VU43;Q15327;Q8N0Z2;P11532;P28289;P63261;A8MU46;P15172;P10916}  
[Cluster 194]GO:0035097+C cellular\_component [name] histone methyltransferase complex [def] "A multimeric complex that is able to catalyze the addition of methyl groups to histone proteins." [GOC]

2128 Pathogen[ Q2Q067] interacts with 10 human

2129 partners:{Q6ZW49;Q9C005;Q9UKV0;Q9P0U4;O14686;Q9BTK6;O00255;Q14686;P45973;Q9UBL3}  
Pathogen[ P0C214] interacts with 6 human

2130 partners:{Q14686;Q6ZW49;Q9C005;Q9UKV0;P45973;O00255}  
Pathogen[ P03346] interacts with 11 human

2131 partners:{P45973;Q9C005;Q9BTK6;Q15291;Q9UBL3;Q9P0U4;O00255;O14686;Q9UKV0;Q6ZW49;Q14686}  
Pathogen[ Q85601] interacts with 9 human

2132 partners:{Q9UKV0;O14686;Q14686;Q9UBL3;Q9P0U4;Q9C005;P45973;O00255;Q6ZW49}  
Pathogen[ P14079] interacts with 9 human

2133 partners:{Q9C005;Q9UBL3;Q9BTK6;Q9UKV0;P45973;Q6ZW49;Q9P0U4;O00255;Q14686}  
Pathogen[ P03383] interacts with 7 human

2134 partners:{Q9BTK6;Q14686;Q6ZW49;P45973;Q9C005;O00255;Q9UKV0}  
Pathogen[ P03410] interacts with 8 human

2135 partners:{Q9UKV0;Q9P0U4;Q14686;P45973;Q9C005;Q9BTK6;O00255;Q6ZW49}  
Pathogen[ P14075] interacts with 7 human

2136 partners:{Q14686;Q6ZW49;P45973;Q9UKV0;O00255;Q9C005;Q9BTK6}  
Pathogen[ P0C206] interacts with 10 human

2137 partners:{Q9P0U4;Q9C005;P45973;Q6ZW49;O00255;Q9UKV0;O14686;Q9BTK6;Q14686;Q9UBL3}  
Pathogen[ P03363] interacts with 12 human

2138 partners:{Q9BTK6;Q15291;P45973;Q9UBL3;Q9P0U4;O15047;Q14686;Q9C005;Q9UKV0;Q9UPS6;Q6ZW49;O14686}  
[Cluster 195]GO:0042383+C cellular\_component [name] sarcolemma [def] "The outer membrane of a muscle cell, consisting of the plasma membrane, a covering basement membrane (about 100 nm thick and sometimes common to more than one fiber), and the associated loose network of collagen fibers." [ISBN]

2139 Pathogen[ Q2Q067] interacts with 11 human

2140 partners:{P09917;Q14315;Q13884;Q96EV8;P08727;Q9H7C4;Q12959;P11532;A2IDD5;P14672;P17661}  
Pathogen[ P0C214] interacts with 13 human

2141 partners:{Q9H7C4;P09917;Q13884;Q14315;P11532;Q15124;Q96EV8;Q12959;P08727;A2IDD5;P14672;P18054;P17661}  
Pathogen[ P03346] interacts with 15 human

2142 partners:{Q14315;P08727;Q13884;Q15149;P18054;Q13424;P09917;P17661;Q96EV8;Q9H7C4;A2IDD5;P11532;P14672;Q9UBF9;Q12959}  
Pathogen[ Q85601] interacts with 12 human

2143 partners:{Q13884;P17661;P09917;P11532;Q15124;Q96EV8;Q14315;Q12959;A2IDD5;P08727;P14672;Q9H7C4}  
Pathogen[ P14079] interacts with 21 human

2144 partners:{P04083;Q9H7C4;P11532;P14672;Q16585;Q9UBF9;Q15124;Q14118;Q13424;Q15149;Q92629;P08758;Q16586;Q14315;Q13326;P09917;A2IDD5;Q96LD1;Q96EV8;P17661;P08727}  
Pathogen[ P03383] interacts with 8 human

2145 partners:{P08727;Q13884;P17661;Q96EV8;P11532;Q9H7C4;A2IDD5;P14672}  
Pathogen[ P03410] interacts with 19 human

2146 partners:{Q9UBF9;P17661;Q12959;P11532;Q15124;Q16585;Q13884;Q9H7C4;A2IDD5;Q14315;Q14118;P09917;Q92629;Q13326;Q13424;Q15149;P08727;Q96EV8;Q96LD1}  
Pathogen[ P14075] interacts with 8 human

2147 partners:{P11532;Q13884;P08727;P17661;Q9H7C4;A2IDD5;Q96EV8;P14672}  
Pathogen[ P0C206] interacts with 13 human

2148 partners:{P17661;P09917;Q14315;P08727;A2IDD5;Q15124;Q13884;Q96EV8;Q9H7C4;P14672;P11532;Q13424;Q12959}  
Pathogen[ P03363] interacts with 12 human

2149 partners:{Q12959;A2IDD5;Q9UBF9;Q9H7C4;P08727;Q15149;P11532;P17661;Q13884;P14672;Q14315;Q13424}  
[Cluster 196]GO:0045111+C cellular\_component [name] intermediate filament cytoskeleton

[def] "Cytoskeletal structure made from intermediate filaments, typically organized in the cytosol as an extended system that stretches from the nuclear envelope to the plasma membrane. Some intermediate filaments run parallel to the cell surface, while others traverse the cytosol\_ together they form an internal framework that helps support the shape and resilience of the cell." [ISBN

2150 Pathogen[ Q2Q067] interacts with 27 human partners:{Q9Y473;P35908;O75832;Q9NSB2;Q9UHR5;Q8IZH2;P51531;O76013;Q9Y3D9;Q6H8Q1;Q14934;Q9H668;Q13769;Q9Y295;Q12873;Q9UGK8;Q92540;O75410;Q0VG06;Q08752;O15182;Q2M2I5;P08670;Q86Z20;Q01546;Q8NFH5;Q9UHB4}

2151 Pathogen[ P0C214] interacts with 26 human partners:{Q2M2I5;O76013;Q8NFH5;Q9Y3D9;Q9Y473;Q13769;Q12873;Q9Y295;Q9NSB2;Q92540;P35908;Q86Z20;Q8IZH2;O75832;Q9UHR5;P08670;Q0VG06;Q14934;O75410;Q9UHB4;Q9UGK8;Q9H668;Q6H8Q1;Q08752;P51531;Q01546}

2152 Pathogen[ P03346] interacts with 34 human partners:{Q86Z20;Q96NL6;Q9UBK8;P09651;Q9UHR5;Q14149;O75410;Q9UHB4;Q15149;Q0VG06;Q8NFH5;Q13769;Q6H8Q1;Q8IZH2;P35908;Q14934;O75832;Q9Y3D9;Q2M2I5;Q14694;Q9Y295;Q9NSB2;Q08752;Q9H668;Q92540;P08670;Q9UGK8;Q12873;O15182;P51531;Q9Y473;Q01546;O76013;Q6ZJW1}

2153 Pathogen[ Q85601] interacts with 29 human partners:{Q9UHB4;O76013;Q86Z20;O15182;Q13769;Q92540;P08670;O75832;Q6ZJW1;Q2M2I5;Q9Y3D9;Q6H8Q1;Q14149;Q8IZH2;P51531;Q08752;Q14934;Q9Y295;Q01546;Q9H668;Q12873;Q8NFH5;Q9UGK8;P35908;Q9Y473;Q0VG06;Q9UHR5;O75410;Q9NSB2}

2154 Pathogen[ P14079] interacts with 35 human partners:{Q8NFH5;Q9UHB4;Q9H668;P35908;Q96NL6;Q08752;Q9UGK8;Q92540;Q86Z20;P51531;O75832;Q99442;P50990;Q01546;Q12873;Q13769;Q14149;Q15149;Q8IZH2;Q2M2I5;Q14934;Q0VG06;Q9Y473;P48681;Q86X24;Q9UHR5;O76013;Q6H8Q1;O75410;P08670;O15182;Q6ZJW1;Q9NSB2;Q9Y295;Q9Y3D9}

2155 Pathogen[ P03383] interacts with 23 human partners:{Q9NSB2;P08670;Q9UHB4;Q13769;Q9UHR5;Q9Y295;O75410;Q8NFH5;Q2M2I5;Q08752;O75832;Q14934;Q9Y3D9;Q12873;Q01546;P51531;P35908;Q9UGK8;Q92540;Q86Z20;Q9Y473;Q0VG06;O76013}

2156 Pathogen[ P03410] interacts with 33 human partners:{Q92540;Q12873;Q99442;Q86Z20;Q08752;Q6ZJW1;Q14149;O15182;Q6H8Q1;Q9H668;Q9Y295;Q96NL6;Q8IZH2;P35908;P50990;Q9UGK8;Q8NFH5;Q2M2I5;O75410;Q13769;O76013;Q9UHB4;P08670;P51531;Q9Y3D9;Q01546;Q9NSB2;Q15149;Q14934;Q0VG06;O75832;Q9Y473;Q9UHR5}

2157 Pathogen[ P14075] interacts with 24 human partners:{Q08752;Q9Y3D9;Q9Y295;O75832;Q13769;O75410;Q9UHR5;Q9NSB2;Q9UHB4;Q86Z20;P35908;O76013;P51531;Q14934;P08670;Q9UGK8;Q9Y473;Q0VG06;Q92540;Q12873;Q01546;Q8NFH5;Q2M2I5;Q9H668}

2158 Pathogen[ P0C206] interacts with 30 human partners:{O15182;Q9NSB2;Q96NL6;Q9Y295;O75832;Q8NFH5;Q86Z20;Q8IZH2;Q6ZJW1;Q08752;P51531;Q9UHR5;Q2M2I5;Q9UGK8;Q9H668;Q0VG06;Q13769;O75410;O76013;Q14149;Q01546;Q9Y3D9;Q14934;P08670;Q9Y473;Q9UHB4;Q92540;P35908;Q6H8Q1;Q12873}

2159 Pathogen[ P03363] interacts with 29 human partners:{O75410;Q9UGK8;Q9UHB4;Q86Z20;P09651;Q13769;Q08752;Q9Y295;P35908;O76013;Q15149;Q9UHR5;Q9H668;Q6H8Q1;P08670;Q9Y3D9;Q9NSB2;Q6ZJW1;O15182;Q92540;Q14934;Q12873;Q0VG06;Q01546;P51531;Q8NFH5;Q9Y473;Q2M2I5;Q8IZH2}

2160 [Cluster 197]GO:0070688+C cellular\_component [name] MLL5-L complex [def] "A protein complex that can methylate lysine-4 of histone H3 and plays an essential role in retinoic-acid-induced granulopoiesis. MLL5 is the catalytic methyltransferase subunit, and the complex also contains serine/threonine kinase 38 (STK38), protein phosphatase 1 catalytic subunits, the host cell factor-1 N-terminal subunit, beta-actin, and O-GlcNAc transferase\_ the human genes encoding the subunits are MLL5, STK38, PPP1CA, PPP1CB, PPP1CC, HCFC1, ACTB and OGT, respectively." [GOC

2161 Pathogen[ Q2Q067] interacts with 5 human partners:{Q8IZD2;P62140;P51610;P36873;P62136}

2162 Pathogen[ P0C214] interacts with 6 human partners:{P60709;P51610;P62140;P62136;P36873;Q8IZD2}

2163 Pathogen[ P03346] interacts with 6 human partners:{P62136;P51610;P60709;P36873;P62140;Q8IZD2}

2164 Pathogen[ Q85601] interacts with 6 human partners:{P51610;P60709;P62136;P36873;P62140;Q8IZD2}

2165 Pathogen[ P14079] interacts with 5 human partners:{P36873;P62136;P51610;P62140;P60709}

2166 Pathogen[ P03383] interacts with 4 human partners:{P62140;P36873;P62136;P51610}

2167 Pathogen[ P03410] interacts with 5 human partners:{P51610;P62136;P62140;P36873;P60709}

2168 Pathogen[ P14075] interacts with 4 human partners:{P51610;P62140;P36873;P62136}

2169 Pathogen[ P0C206] interacts with 6 human partners:{P60709;P51610;P62140;P36873;P62136;Q8IZD2}

2170 Pathogen[ P03363] interacts with 5 human partners:{P62136;P36873;P60709;P62140;P51610}

2171 [Cluster 198]GO:0016234+C cellular\_component [name] inclusion body [def] "A discrete intracellular part formed of aggregated molecules such as proteins or other biopolymers." [GOC

2172 Pathogen[ Q2Q067] interacts with 3 human partners:{P08107;P35573;P13807}

2173 Pathogen[ P0C214] interacts with 3 human partners:{P35573;P08107;P13807}

2174 Pathogen[ P03346] interacts with 4 human partners:{P08107;P13807;P25686;P35573}



2175 Pathogen[ Q85601] interacts with 3 human partners: {P08107;P13807;P35573}

2176 Pathogen[ P14079] interacts with 4 human partners: {P13807;Q9UL15;P08107;P35573}

2177 Pathogen[ P03383] interacts with 3 human partners: {P08107;P13807;P35573}

2178 Pathogen[ P03410] interacts with 5 human partners: {P35573;P25686;P08107;P13807;Q9UL15}

2179 Pathogen[ P14075] interacts with 3 human partners: {P35573;P08107;P13807}

2180 Pathogen[ P0C206] interacts with 3 human partners: {P13807;P08107;P35573}

2181 Pathogen[ P03363] interacts with 3 human partners: {P13807;P08107;P35573}

2182 [Cluster 199]GO:0035327+C cellular\_component [name] transcriptionally active chromatin [def] "The ordered and organized complex of DNA and protein that forms regions of the chromosome that are being actively transcribed." [GOC

2183 Pathogen[ Q2Q067] interacts with 6 human partners: {Q9NQT4;Q6PD62;Q9GZS3;Q9NPD3;O75475;Q6PGP7}

2184 Pathogen[ P0C214] interacts with 6 human partners: {Q6PGP7;Q9NPD3;O75475;Q6PD62;Q9NQT4;Q9GZS3}

2185 Pathogen[ P03346] interacts with 7 human partners: {Q6PD62;O75475;Q6PGP7;Q9NQT5;Q9GZS3;Q9NQT4;Q9NPD3}

2186 Pathogen[ Q85601] interacts with 6 human partners: {Q6PD62;Q9NPD3;Q9GZS3;Q9NQT4;Q6PGP7;O75475}

2187 Pathogen[ P14079] interacts with 6 human partners: {Q6PGP7;O75475;Q9NQT4;Q9NPD3;Q9GZS3;Q6PD62}

2188 Pathogen[ P03383] interacts with 6 human partners: {Q6PD62;Q6PGP7;Q9NPD3;Q9NQT4;O75475;Q9GZS3}

2189 Pathogen[ P03410] interacts with 6 human partners: {Q6PGP7;Q6PD62;Q9GZS3;Q9NQT4;Q9NPD3;O75475}

2190 Pathogen[ P14075] interacts with 6 human partners: {O75475;Q9NPD3;Q6PGP7;Q9NQT4;Q6PD62;Q9GZS3}

2191 Pathogen[ P0C206] interacts with 6 human partners: {Q6PD62;Q9NPD3;Q6PGP7;O75475;Q9GZS3;Q9NQT4}

2192 Pathogen[ P03363] interacts with 7 human partners: {Q9NQT4;Q9GZS3;O75475;Q9NPD3;Q6PGP7;Q9NQT5;Q6PD62}

2193 [Cluster 200]GO:0005641+C cellular\_component [name] nuclear envelope lumen [def] "The region between the two lipid bilayers of the nuclear envelope\_ 20-40 nm wide." [GOC

2194 Pathogen[ Q2Q067] interacts with 2 human partners: {P09917;Q9HB71}

2195 Pathogen[ P0C214] interacts with 2 human partners: {P09917;Q9HB71}

2196 Pathogen[ P03346] interacts with 2 human partners: {Q9HB71;P09917}

2197 Pathogen[ Q85601] interacts with 2 human partners: {P09917;Q9HB71}

2198 Pathogen[ P14079] interacts with 2 human partners: {Q9HB71;P09917}

2199 Pathogen[ P03383] interacts with 1 human partners: {Q9HB71}

2200 Pathogen[ P03410] interacts with 2 human partners: {Q9HB71;P09917}

2201 Pathogen[ P14075] interacts with 1 human partners: {Q9HB71}

2202 Pathogen[ P0C206] interacts with 2 human partners: {Q9HB71;P09917}

2203 Pathogen[ P03363] interacts with 1 human partners: {Q9HB71}

2204 [Cluster 201]GO:0032584+C cellular\_component [name] growth cone membrane [def] "The portion of the plasma membrane surrounding a growth cone." [GOC

2205 Pathogen[ Q2Q067] interacts with 1 human partners: {Q9UPT5}

2206 Pathogen[ P0C214] interacts with 1 human partners: {Q9UPT5}

2207 Pathogen[ P03346] interacts with 2 human partners: {Q9UPT5;Q96A65}

2208 Pathogen[ Q85601] interacts with 3 human partners: {Q9UPT5;Q96A65;P17677}

2209 Pathogen[ P14079] interacts with 3 human partners: {P17677;Q9UPT5;Q96A65}

2210 Pathogen[ P03383] interacts with 1 human partners: {Q9UPT5}

2211 Pathogen[ P03410] interacts with 3 human partners: {Q9UPT5;Q96A65;P17677}

2212 Pathogen[ P14075] interacts with 1 human partners: {Q9UPT5}

2213 Pathogen[ P0C206] interacts with 3 human partners: {P17677;Q96A65;Q9UPT5}

2214 Pathogen[ P03363] interacts with 2 human partners: {Q96A65;Q9UPT5}

2215 [Cluster 202]GO:0008623+C cellular\_component [name] chromatin accessibility complex [def] "A multisubunit complex that uses ATP to increase the general accessibility of DNA in chromatin. Unlike other known chromatin remodeling complexes, CHRAC can also function during chromatin assembly\_ it uses ATP to convert irregular chromatin into a regular array of nucleosomes with even spacing." [GOC

2216 Pathogen[ Q2Q067] interacts with 1 human partners: {Q9NRL2}

2217 Pathogen[ P0C214] interacts with 1 human partners: {Q9NRL2}

2218 Pathogen[ P03346] interacts with 1 human partners: {Q9NRL2}

2219 Pathogen[ Q85601] interacts with 1 human partners: {Q9NRL2}

2220 Pathogen[ P14079] interacts with 2 human partners: {Q9NRG0;Q9NRL2}

2221 Pathogen[ P03383] interacts with 1 human partners: {Q9NRL2}

2222 Pathogen[ P03410] interacts with 2 human partners: {Q9NRG0;Q9NRL2}

2223 Pathogen[ P14075] interacts with 1 human partners: {Q9NRL2}

2224 Pathogen[ P0C206] interacts with 1 human partners: {Q9NRL2}

2225 Pathogen[ P03363] interacts with 1 human partners: {Q9NRL2}

2226 [Cluster 203]GO:0000781+C cellular\_component [name] chromosome, telomeric region [def] "The terminal region of a linear chromosome that includes the telomeric DNA repeats and associated proteins." [GOC

2227 Pathogen[ Q2Q067] interacts with 31 human partners: {Q9Y4R8;Q8IY18;Q12888;Q92889;Q9H2K2;P49959;Q9NYB0;Q15554;Q5UIP0;P54274;Q9BSI4;O14757;Q9H668;O60934;Q86US8;O96017;Q8N140;Q96AP0;O14746;Q96BK5;Q15185;O76064;Q2NKJ3

2228 ;O75943;Q9H816;O95271;Q96MG7;Q96MF7;P24941;Q86WV5;Q9NXX6}  
Pathogen[ P0C214] interacts with 29 human  
partners:{Q8IY18;Q96BK5;O14746;Q5UIP0;P49959;Q9H816;Q9NXX6;Q92889;Q9BSI4;Q15554;Q86WV5;Q86US8;O96017;Q9Y4R8;Q96MF7;Q96MG7;P24941;Q9H2K2;O75943;Q9NYB0;Q12888;Q9H668;O14757;O95271;Q15185;O76064;P54274;Q8N140;Q2NKJ3}

2229 Pathogen[ P03346] interacts with 33 human  
partners:{Q12888;Q9BSI4;Q96AP0;O76064;Q96MF7;O96017;Q86US8;Q86WV5;Q15554;P54274;P24941;Q96MG7;Q15185;O14757;Q8WV22;O75943;Q9H2K2;Q8N140;Q9Y4R8;Q9H668;O14746;Q9NUX5;Q96BK5;Q9NYB0;Q5UIP0;P49959;O60934;Q92889;O95271;Q8IY18;Q9H816;Q9NXX6;Q2NKJ3}

2230 Pathogen[ Q85601] interacts with 30 human  
partners:{Q9Y4R8;O96017;Q86WV5;Q8IY18;Q15554;Q96MG7;Q2NKJ3;P49959;Q12888;Q92889;O14757;O75943;Q9H2K2;Q8N140;O76064;Q96BK5;Q9H668;Q5UIP0;Q15185;Q86US8;O14746;Q9NYB0;O95271;Q9H816;Q9NXX6;Q8WV22;P24941;P54274;Q96MF7;O60934}

2231 Pathogen[ P14079] interacts with 28 human  
partners:{Q9H668;P54274;O14746;Q96MF7;Q9NUX5;Q86WV5;O95271;Q9BSI4;Q86US8;Q9H2K2;O60934;O75943;Q9NYB0;Q15185;Q92889;Q8N140;Q8NAM6;Q15554;Q9Y4R8;Q8IY18;Q96BK5;Q96MG7;Q12888;Q5UIP0;Q2NKJ3;Q9H816;Q9NXX6;Q96AP0}

2232 Pathogen[ P03383] interacts with 22 human  
partners:{Q12888;O14757;Q9NXX6;Q5UIP0;Q9NYB0;Q15554;Q96BK5;Q9Y4R8;Q96MF7;Q9H816;P24941;Q86US8;Q9BSI4;O14746;Q15185;Q8N140;Q96MG7;O95271;Q86WV5;Q2NKJ3;P54274;O96017}

2233 Pathogen[ P03410] interacts with 31 human  
partners:{P49959;Q9NUX5;Q9H816;O75943;Q9Y4R8;Q15554;Q96AP0;O14746;P54274;Q9H668;Q92889;Q9BSI4;Q9NXX6;Q96MF7;Q96MG7;Q86WV5;P24941;O95271;Q15185;O96017;O14757;Q12888;Q86US8;Q8IY18;Q8N140;Q9H2K2;Q96BK5;Q5UIP0;Q2NKJ3;Q9NYB0;O60934}

2234 Pathogen[ P14075] interacts with 24 human  
partners:{Q24941;O14746;Q15554;Q9BSI4;Q8N140;Q2NKJ3;Q96AP0;Q15185;Q96BK5;P54274;Q86US8;O96017;Q86WV5;Q9H816;Q9NXX6;Q9Y4R8;Q12888;Q5UIP0;Q96MF7;O95271;Q96MG7;O14757;Q9NYB0;Q9H668}

2235 Pathogen[ P0C206] interacts with 32 human  
partners:{O95271;Q8N140;Q2NKJ3;Q8WV22;P49959;Q5UIP0;Q96AP0;O96017;Q86WV5;Q15554;O60934;Q15185;Q96MG7;Q9BSI4;Q9H668;Q9H816;Q96BK5;O75943;P54274;Q12888;Q86US8;Q92889;Q96MF7;Q9Y4R8;Q9NYB0;Q9NUX5;O76064;Q8IY18;P24941;Q9H2K2;Q9NXX6;O14746}

2236 Pathogen[ P03363] interacts with 30 human  
partners:{Q9H816;Q9NXX6;Q9Y4R8;Q15554;Q96BK5;Q86US8;Q9NYB0;Q8N140;Q92889;Q86WV5;O14746;P24941;Q9BSI4;Q9H2K2;Q96AP0;O96017;P54274;Q9H668;Q5UIP0;O95271;Q9NUX5;Q15185;Q2NKJ3;Q8WV22;Q96MG7;O75943;Q8IY18;Q96MF7;Q12888;O14757}

2237 [Cluster 204]GO:0019898+C cellular\_component [name] extrinsic to membrane [def] "Loosely bound to one surface of a membrane, but not integrated into the hydrophobic region." [GOC

2238 Pathogen[ Q2Q067] interacts with 7 human  
partners:{P04156;Q9Y2J2;Q9UL45;Q96N16;Q9BZE9;P11171;Q8IZQ1}

2239 Pathogen[ P0C214] interacts with 6 human  
partners:{Q9BZE9;Q8IZQ1;Q9UL45;P04156;P11171;Q96N16}

2240 Pathogen[ P03346] interacts with 12 human  
partners:{Q9HCS5;Q96N16;Q8IZQ1;Q9H329;P26038;Q9BZE9;P11171;O43491;Q9Y2J2;Q9UL45;P04156;Q9Y2J0}

2241 Pathogen[ Q85601] interacts with 6 human  
partners:{Q9Y2J2;P11171;Q9BZE9;Q8IZQ1;P04156;Q96N16}

2242 Pathogen[ P14079] interacts with 9 human  
partners:{Q9Y2J2;P11171;P04156;Q9BZE9;P26038;Q96N16;Q9UL45;Q99445;P35241}

2243 Pathogen[ P03383] interacts with 4 human partners:{P04156;Q9BZE9;Q96N16;Q8IZQ1}

2244 Pathogen[ P03410] interacts with 13 human  
partners:{Q9BZE9;Q9Y2J0;Q9H329;Q99445;Q96N16;Q9UL45;P11171;P26038;O43491;Q9Y2J2;P04156;P35241;Q8IZQ1}

2245 Pathogen[ P14075] interacts with 6 human  
partners:{Q9Y2J2;Q96N16;Q8IZQ1;P04156;P11171;Q9BZE9}

2246 Pathogen[ P0C206] interacts with 10 human  
partners:{Q9UL45;P04156;Q9Y2J0;Q96N16;Q9BZE9;Q8IZQ1;Q99445;O43491;Q9Y2J2;P11171}

2247 Pathogen[ P03363] interacts with 9 human  
partners:{P04156;Q9HCS5;P11171;Q9BZE9;O43491;Q8IZQ1;Q9H329;Q96N16;Q9Y2J2}

2248 [Cluster 205]GO:0005844+C cellular\_component [name] polysome [def] "Several ribosomes bound to one mRNA." [ISBN

2249 Pathogen[ Q2Q067] interacts with 12 human  
partners:{P05198;P62701;P22090;Q9Y295;P27797;Q9Y2T7;P60900;P25786;Q9UKV8;P16989;Q99700;Q9UL18}

2250 Pathogen[ P0C214] interacts with 15 human  
partners:{P51114;P22090;P16989;Q9Y295;P62701;Q99700;Q9Y2T7;P13639;O95278;P25786;Q9UKV8;P05198;P27797;P60900;Q9UL18}

2251 Pathogen[ P03346] interacts with 15 human  
partners:{Q9UL18;Q96J94;P16989;Q99700;Q9Y295;P60900;P25786;Q9UKV8;P27797;P62701;Q9Y2T7;P22090;P51114;O95278;P05198}

2252 Pathogen[ Q85601] interacts with 14 human  
partners:{P60900;Q9Y2T7;Q9UL18;P62701;P27797;O95278;Q9Y295;P25786;Q9UKV8;P05198;P22090;P16989;Q99700;P51114}

2253 Pathogen[ P14079] interacts with 11 human  
partners:{Q9UKV8;Q9UL18;Q99700;P05198;P22090;Q9Y2T7;P60900;P16989;P13639;P62701;Q9Y29

5}

2254 Pathogen[ P03383] interacts with 12 human partners:{P16989;Q9UL18;P60900;Q9Y295;Q99700;Q9Y2T7;P05198;P25786;Q9UKV8;P22090;P62701;P27797}

2255 Pathogen[ P03410] interacts with 14 human partners:{Q99700;Q9UKV8;P25786;P16989;P60900;Q9UL18;P22090;P13639;Q9Y295;P62701;P51114;Q9Y2T7;P05198;P27797}

2256 Pathogen[ P14075] interacts with 12 human partners:{P22090;P16989;Q9Y295;P60900;P05198;Q9Y2T7;P27797;P25786;Q9UKV8;Q9UL18;Q99700;P62701}

2257 Pathogen[ P0C206] interacts with 14 human partners:{Q9Y295;P27797;P25786;P60900;Q9UKV8;P51114;P05198;P16989;Q99700;P62701;P22090;O95278;Q9Y2T7;Q9UL18}

2258 Pathogen[ P03363] interacts with 14 human partners:{O43347;Q9Y295;Q9UKV8;P05198;P22090;Q92904;P27797;P51114;Q9UL18;Q96J94;P16989;Q99700;Q9Y2T7;P62701}

2259 [Cluster 206]GO:0005967+C cellular\_component [name] mitochondrial pyruvate dehydrogenase complex [def] "Complex that carries out the oxidative decarboxylation of pyruvate to form acetyl-CoA in eukaryotes\_ includes subunits possessing three catalytic activities

2260 Pathogen[ Q2Q067] interacts with 1 human partners:{P10515}

2261 Pathogen[ P0C214] interacts with 1 human partners:{P10515}

2262 Pathogen[ P03346] interacts with 1 human partners:{P10515}

2263 Pathogen[ Q85601] interacts with 1 human partners:{P10515}

2264 Pathogen[ P14079] interacts with 1 human partners:{P10515}

2265 Pathogen[ P03383] interacts with 1 human partners:{P10515}

2266 Pathogen[ P03410] interacts with 1 human partners:{P10515}

2267 Pathogen[ P14075] interacts with 1 human partners:{P10515}

2268 Pathogen[ P0C206] interacts with 1 human partners:{P10515}

2269 Pathogen[ P03363] interacts with 1 human partners:{P10515}

2270 [Cluster 207]GO:0031012+C cellular\_component [name] extracellular matrix [def] "A structure lying external to one or more cells, which provides structural support for cells or tissues\_ may be completely external to the cell (as in animals) or be part of the cell (as in plants)." [GOC

2271 Pathogen[ Q2Q067] interacts with 2 human partners:{P27797;O15162}

2272 Pathogen[ P0C214] interacts with 6 human partners:{P08294;P05121;O15162;P07093;P10909;P27797}

2273 Pathogen[ P03346] interacts with 3 human partners:{Q9NZU5;P27797;O15162}

2274 Pathogen[ Q85601] interacts with 5 human partners:{Q9NZU5;P27797;P05121;O15162;P07093}

2275 Pathogen[ P14079] interacts with 7 human partners:{O15162;P10909;Q9NZU5;Q96JX3;P03973;O43294;Q92896}

2276 Pathogen[ P03383] interacts with 2 human partners:{O15162;P27797}

2277 Pathogen[ P03410] interacts with 8 human partners:{P05121;O43294;Q9BQB4;Q92896;O15162;Q96JX3;P10909;P27797}

2278 Pathogen[ P14075] interacts with 2 human partners:{O15162;P27797}

2279 Pathogen[ P0C206] interacts with 6 human partners:{P27797;P10909;O43294;O15162;P05121;Q9NZU5}

2280 Pathogen[ P03363] interacts with 2 human partners:{Q9NZU5;P27797}

2281 [Cluster 208]GO:0016235+C cellular\_component [name] aggresome [def] "An inclusion body formed by dynein-dependent retrograde transport of an aggregated protein on microtubules." [PMID

2282 Pathogen[ Q2Q067] interacts with 7 human partners:{O60260;Q96EY5;Q9Y6J0;P08107;Q9H0A6;Q9NTM9;O15205}

2283 Pathogen[ P0C214] interacts with 9 human partners:{Q9GZZ9;Q9H0A6;Q9NTM9;Q96EY5;O15205;P10909;O60260;P08107;Q9Y6J0}

2284 Pathogen[ P03346] interacts with 10 human partners:{P08107;Q14149;Q9NTM9;Q9H0A6;Q8NFT6;O94972;Q9Y6J0;O15205;O60260;Q96EY5}

2285 Pathogen[ Q85601] interacts with 8 human partners:{P08107;Q9Y6J0;Q9H0A6;Q8NFT6;Q14149;O15205;O60260;Q96EY5}

2286 Pathogen[ P14079] interacts with 12 human partners:{O60260;Q96EY5;Q9H0A6;Q9NTM9;Q99442;P10909;P50990;Q14149;O15205;P08107;Q8NFT6;Q9Y6J0}

2287 Pathogen[ P03383] interacts with 4 human partners:{P08107;O60260;O15205;Q96EY5}

2288 Pathogen[ P03410] interacts with 12 human partners:{Q9Y6J0;O15205;Q99442;Q14149;Q9NTM9;Q8NFT6;O60260;P50990;P08107;Q96EY5;Q9H0A6;P10909}

2289 Pathogen[ P14075] interacts with 5 human partners:{Q96EY5;Q9NTM9;P08107;O60260;O15205}

2290 Pathogen[ P0C206] interacts with 10 human partners:{Q8NFT6;O15205;Q9Y6J0;Q9H0A6;Q14149;O60260;P10909;P08107;Q96EY5;Q9NTM9}

2291 Pathogen[ P03363] interacts with 7 human partners:{Q9Y6J0;O15205;O94972;P08107;Q96EY5;Q9H0A6;Q9NTM9}

2292 [Cluster 209]GO:0031428+C cellular\_component [name] box C/D snoRNP complex [def] "A ribonucleoprotein complex containing small nucleolar RNA of the box C/D type that can carry out ribose-2'-O-methylation of target RNAs." [ISBN

2293 Pathogen[ Q2Q067] interacts with 4 human partners: {P55769;P22087;O00567;Q9Y2X3}

2294 Pathogen[ P0C214] interacts with 4 human partners: {O00567;P22087;P55769;Q9Y2X3}

2295 Pathogen[ P03346] interacts with 4 human partners: {O00567;Q9Y2X3;P55769;P22087}

2296 Pathogen[ Q85601] interacts with 4 human partners: {P55769;O00567;P22087;Q9Y2X3}

2297 Pathogen[ P14079] interacts with 4 human partners: {Q9Y2X3;P22087;O00567;P55769}

2298 Pathogen[ P03383] interacts with 4 human partners: {O00567;Q9Y2X3;P55769;P22087}

2299 Pathogen[ P03410] interacts with 4 human partners: {P22087;P55769;Q9Y2X3;O00567}

2300 Pathogen[ P14075] interacts with 4 human partners: {O00567;P55769;P22087;Q9Y2X3}

2301 Pathogen[ P0C206] interacts with 4 human partners: {P55769;O00567;Q9Y2X3;P22087}

2302 Pathogen[ P03363] interacts with 4 human partners: {Q9Y2X3;O00567;P22087;P55769}

2303 [Cluster 210]GO:0016529+cellular\_component [name] sarcoplasmic reticulum [def] "A fine reticular network of membrane-limited elements that pervades the sarcoplasm of a muscle cell\_ continuous over large portions of the cell and with the nuclear envelope\_ that part of the endoplasmic reticulum specialized for calcium release, uptake and storage." [GOC

2304 Pathogen[ Q2Q067] interacts with 9 human partners: {Q9P0M2;P35573;P27797;P26678;Q9BVC6;A2IDD5;O00165;P23297;Q13023}

2305 Pathogen[ P0C214] interacts with 10 human partners: {P16157;Q13023;Q9P0M2;P35573;O00165;P27797;Q9BVC6;A2IDD5;P26678;P23297}

2306 Pathogen[ P03346] interacts with 12 human partners: {Q9P0M2;P23297;P26678;Q8WXH0;Q13023;P35573;P16157;Q9Y6F6;P27797;Q9BVC6;O00165;A2IDD5}

2307 Pathogen[ Q85601] interacts with 8 human partners: {P16157;O00165;P27797;P23297;P35573;Q9P0M2;A2IDD5;Q13023}

2308 Pathogen[ P14079] interacts with 15 human partners: {Q9BVC6;Q13023;Q9P0M2;O00165;P16157;P23327;O00631;P35573;Q8WXH0;P23297;A2IDD5;P26678;Q9Y6F6;Q96MG2;Q9H6F2}

2309 Pathogen[ P03383] interacts with 8 human partners: {P23297;Q13023;P35573;O00165;Q9BVC6;P26678;A2IDD5;P27797}

2310 Pathogen[ P03410] interacts with 16 human partners: {Q9BVC6;P16157;O00165;P35573;Q9Y6F6;P23327;A2IDD5;Q9P0M2;Q9H6F2;P26678;Q13023;P23297;O00631;Q8WXH0;Q96MG2;P27797}

2311 Pathogen[ P14075] interacts with 10 human partners: {Q9BVC6;Q9Y6F6;P23327;P26678;P27797;P35573;A2IDD5;O00165;P23297;Q13023}

2312 Pathogen[ P0C206] interacts with 13 human partners: {P27797;Q13023;A2IDD5;P16157;O00165;Q9P0M2;Q9BVC6;Q9Y6F6;P23327;Q8WXH0;P26678;P23297;P35573}

2313 Pathogen[ P03363] interacts with 9 human partners: {A2IDD5;P16157;Q9P0M2;P27797;Q13023;Q9Y6F6;O00165;P35573;P23297}

2314 [Cluster 211]GO:0031410+cellular\_component [name] cytoplasmic vesicle [def] "A vesicle formed of membrane or protein, found in the cytoplasm of a cell." [GOC

2315 Pathogen[ Q2Q067] interacts with 72 human partners: {Q7Z3C6;Q96J02;Q9H3C7;Q96N21;O14786;Q9Y6Q5;Q10567;P56377;O75340;O43747;Q8IY63;Q96B97;O00291;Q92572;Q6RW13;O14579;P55735;O43516;P53675;O95295;P30793;Q96JI7;Q9P299;P53990;Q5VYK3;Q9BXW4;P36956;Q96EV8;P48444;P52594;Q8TCI5;Q96PC3;O15049;Q8IXH6;Q6ICB4;P61923;P60520;Q8NFW9;Q05084;Q9UBF2;Q96LB3;Q9H9C1;Q9BPZ7;Q00610;P61966;O14641;Q9UKJ5;Q12904;O75843;Q14677;Q8TD16;Q9Y2J4;Q53G59;Q9BXS5;Q8TAC9;P53618;Q8WV24;Q13425;P09497;O00161;O00165;P35606;Q96NA2;Q9Y678;Q9BVN2;P09496;Q9P0V3;O75969;Q13367;Q15276;Q96A56;Q9NX95}

2316 Pathogen[ P0C214] interacts with 79 human partners: {Q9BPZ7;P60520;Q6ICB4;P53990;Q8NFW9;Q96J02;P61923;P55735;O14786;Q12904;Q9P299;Q6RW13;Q9H201;Q96JI7;Q9Y2J4;P59780;Q9P0V3;Q9UKJ5;Q96N21;O95295;Q8TAC9;Q9UM54;O14579;P62166;Q13367;P53618;P35606;Q9BXW4;Q5VYK3;P48444;Q96NA2;Q8TCI5;O75340;Q9H3C7;O75843;Q9BY43;O15049;Q10567;O43516;O75969;P30793;Q92572;P53675;Q8IVI9;Q13425;Q9UBF2;Q53G59;O00165;O14641;P56377;Q96PC3;Q8TD16;Q9NX95;Q96EV8;Q8IXH6;O43747;Q96G01;Q9Y6Q5;Q9BVN2;P10909;P09497;P61966;Q8IY63;P09496;Q96A56;Q05084;P52594;Q8WV24;Q9H9C1;Q96LB3;Q9Y678;O15524;Q9H492;Q9BXS5;O00161;O00291;Q96B97;Q14677;Q7Z3C6}

2317 Pathogen[ P03346] interacts with 113 human partners: {O95166;Q13425;Q6P3S1;Q96G01;P21283;Q96J02;P61966;P55735;Q96B97;O15524;Q96N21;Q7Z3C6;Q8WV24;Q9H2H0;Q15036;P36956;O43516;Q9H6Q3;Q8IVI9;O95295;O43747;O75969;Q92572;P60520;Q12772;Q92543;Q9BPZ7;Q96JI7;P56377;Q96A56;Q9Y6D5;P59780;Q8IV53;Q9BXS5;Q9H3S7;O75970;Q96NA2;Q9Y678;Q9NX95;P53618;C9J3V5;Q9NVA1;Q93050;Q9P299;O14579;Q05084;O00291;Q9UKJ5;Q6P3W7;P09496;Q9H0R8;Q8IY63;Q9NRS6;Q10567;O00161;Q12904;O75843;P48444;P20340;O75340;Q8N4B1;Q8TAC9;O15049;O14641;Q9P0V3;Q9UNH7;Q96EV8;Q9C0C7;P52594;Q9UBF2;Q96PC3;Q5VYK3;Q9H492;Q8TD16;P53675;P61923;Q6Q0C0;Q9Y2J4;Q96LB3;P62166;P30622;Q8NFW9;Q9H201;Q13492;O00165;P09497;Q9BY43;Q969F2;Q14596;Q13367;P10768;Q9H9C1;Q9BXW4;Q8TCI5;Q86YS3;Q9BVN2;Q9UI14;Q6RW13;P49755;Q9Y6Q5;Q8IXH6;Q6ICB4;P35606;Q9ULU8;Q9H3C7;Q14677;Q00610;Q15363;O14786;O75146;Q15276;Q9UBP0;P53990}

2318 Pathogen[ Q85601] interacts with 91 human partners: {Q13367;Q9H492;Q5VYK3;Q96J02;Q8NFW9;P53675;O75843;Q96LB3;P48444;Q00610;P09496;P10768;Q8WV24;O00165;O14579;Q8IY63;O95295;Q8TAC9;O95166;Q9UBP0;O75969;Q86YS3;Q15036;Q9BXS5;Q9BPZ7;Q9H3C7;P56377;Q9P299;Q93050;Q9H0R8;P30622;Q14596;Q9BVN2;Q12772;O43747;P61923;P52594;Q10567;O14786;Q9H9C1;P30793;Q7Z3C6;Q8TCI5;O43516;Q14677;Q9BXW4;O15049;Q9BY43;Q9H6Q3;O14641;Q96EV8;Q9UBF2;P36956;Q9Y678;P53990;Q6ICB4;Q96G01;Q9UKJ5;Q13425;P55735;Q96N21;Q8IVI9;Q8TD16;Q96B97;Q6RW13;Q9Y2J4;Q96JI7;Q96A56;Q9H201;O75340;Q96PC3;P53618;P60520;P09497;Q8IXH6;O00291;Q9P0V3;Q92572;Q9UM54;P61966;P59780;Q53G59;Q96NA2;Q9Y6

2319 Q5;Q9NX95;P35606;Q6Q0C0;P62166;Q9UNH7;O00161;Q05084}  
 Pathogen[ P14079] interacts with 122 human  
 partners: {Q13492;Q96A56;O43516;O95166;Q96JI7;Q96NA2;Q8NEB7;Q6P3S1;Q9UNH7;Q969M3;P61923;Q8IXH6;Q9Y6Q5;Q15036;P61966;O00291;Q05084;Q9BXS5;O75146;Q8WV24;Q3ZAQ7;Q00610;Q86VI1;Q9BVN2;Q9NX95;Q9H9C1;Q9UKJ5;Q9H492;O14641;Q9HBM0;P35606;Q9BY43;Q9BT56;O00165;Q14677;Q10567;Q9Y6D5;Q9ULU8;Q6RWL3;Q15276;Q99932;P56377;Q9Y678;C9J3V5;P59780;Q9UI14;P52594;Q86YS3;Q9NRS6;P10909;Q14596;Q9Y2J4;Q96B97;Q9UM54;Q9H3C7;Q7Z3C6;Q5VYK3;P30793;Q9P0V3;Q92572;Q15363;O75843;Q12772;Q8IVI9;P60520;Q9NPB0;Q8NFW9;Q8NC96;Q8TAC9;Q8IV53;P49755;Q9P299;Q53FP2;Q5VXU3;O75340;O15049;Q9NVZ3;Q8TCI5;Q8N4B1;Q9UBF2;P62166;Q9H0R8;P09497;O43612;Q8TF30;Q96J02;O95295;Q5T0D9;Q9H6Q3;Q96G01;P48444;Q9NQ60;Q6PJW8;Q13367;Q6ICB4;Q93050;O43747;O14579;P55735;Q96AW1;P53675;Q92543;Q9NVA1;Q96EV8;Q6UW49;Q12904;Q53G59;Q96LB3;Q9BPZ7;Q96PC3;O75969;P36956;Q9BXW4;Q8TD16;O43761;P53990;Q8IY63;P09496;P30622;O75970;Q0VAF6;Q9H201}

2320 Pathogen[ P03383] interacts with 54 human  
 partners: {Q6RWL3;P56377;Q96N21;Q12904;Q96A56;Q7Z3C6;Q00610;O14579;Q92572;Q96JI7;P55735;P53618;Q9Y678;O95295;P53990;Q8TAC9;Q5VYK3;Q9BPZ7;Q10567;Q9NX95;Q9H9C1;O00165;P53675;Q96EV8;Q8IXH6;O43516;Q8TCI5;Q05084;O00291;Q9Y2J4;O75843;O14641;Q53G59;O43747;C9J3V5;Q9UBF2;Q96LB3;Q8IY63;Q9UKJ5;Q13367;Q14677;Q9P0V3;O00161;Q9BXS5;O15049;P09497;Q9H3C7;Q8WV24;O75969;P52594;Q96NA2;Q15276;Q13425;Q9BVN2}

2321 Pathogen[ P03410] interacts with 131 human  
 partners: {Q00610;Q9BVN2;O14786;Q8IXH6;Q8NC96;P09496;Q9Y6Q5;Q9BT56;O00203;Q674R7;Q96PC3;P36956;Q53G59;Q9HBM0;P10768;Q969F2;Q8NEB7;P52594;P30622;Q9BXS5;Q8TAC9;O43612;Q9NQ60;Q9Y2J4;Q8N4B1;Q9NVZ3;Q9P299;O43747;O43516;O75843;Q9P0V3;P60520;O00165;P48444;Q96AW1;Q9BPZ7;P10645;Q9NPB0;Q10567;P35606;Q13425;Q92572;Q8IVI9;Q5VYK3;O75969;Q6UW49;Q93050;Q9BY43;O14579;O00291;O15049;Q96N21;P30793;Q8TD16;Q8TF30;O75146;Q14596;Q05084;O43761;Q8NFW9;P53990;Q12904;O95295;Q9UNH7;O95166;Q9UM54;Q86YS3;O60333;Q0VAF6;O75970;Q13492;Q8WV24;Q14677;Q9H0R8;Q969M3;Q9H492;Q12772;Q9Y678;Q9BXW4;Q9H3C7;P09497;Q6PJW8;C9J3V5;Q15049;Q15363;Q15036;Q96G01;Q9UKJ5;Q9H201;Q9ULU8;P53618;P61923;Q9Y6D5;Q6P3S1;Q9NRS6;Q6ICB4;Q6RWL3;Q8TCI5;Q96JI7;Q96A56;Q99932;Q5T0D9;Q96B97;Q9H9C1;O75340;Q5VXU3;Q9NVA1;P59780;Q86VI1;P55735;P53675;Q13367;Q96LB3;Q96NA2;P62166;Q7Z3C6;P61966;Q8IY63;Q8IV53;Q9UI14;O00161;P56377;Q96EV8;Q92543;Q9NX95;Q15276;P10909;Q5MNZ9;Q9UBF2;Q9H6Q3;O14641}

2322 Pathogen[ P14075] interacts with 60 human  
 partners: {Q9P0V3;Q9NVA1;P09497;Q96N21;Q99932;P09496;P53990;O95295;Q9BVN2;P53675;Q13425;Q9UBF2;Q53G59;Q96NA2;Q9H9C1;Q5T0D9;Q96JI7;Q8IY63;P55735;Q8WV24;C9J3V5;O43516;O00291;O75969;Q9BPZ7;Q9Y2J4;O14641;Q96LB3;Q12904;P53618;Q14677;Q8TCI5;O43747;Q92572;Q8IXH6;P52594;O00161;Q05084;Q9Y678;Q96EV8;O75843;Q8TAC9;P56377;Q9HBM0;Q9H3C7;Q9BXS5;Q6RWL3;P30793;Q9NX95;Q9UKJ5;O15049;O00165;Q10567;Q96A56;Q00610;Q13367;Q7Z3C6;Q15276;Q5VYK3;O14579}

2323 Pathogen[ P0C206] interacts with 119 human  
 partners: {Q8TCI5;Q8TF30;Q7Z3C6;O75340;Q9BT56;Q8IXH6;O14579;Q9Y678;P53675;Q9UM54;Q9C0C7;Q96N21;Q9H201;Q9BXW4;Q9Y6Q5;O00291;Q9UBP0;Q92572;Q9H6Q3;Q969F2;Q9UNH7;Q8NC96;P53618;Q9P299;O43747;O43516;P62166;Q10567;Q9NRS6;Q5VXU3;Q8IY63;Q9H492;Q96B97;Q96JI7;Q8NFW9;P61966;Q9H2H0;Q96J02;P49755;Q6ICB4;Q00610;P55735;Q9UKJ5;P36956;O15524;P10768;P30622;P30793;Q96A56;Q14596;Q15036;Q6P3W7;Q9UI14;P09496;O14786;Q9NX95;O00161;P59780;Q5T0D9;Q6PJW8;Q9ULU8;Q9BXS5;Q9NVA1;Q6RWL3;O00165;Q969M3;Q13425;P09497;Q9Y6D5;P35606;Q96EV8;O15049;P53990;Q86VI1;Q9Y2J4;O75969;Q96LB3;P48444;P10909;Q9BPZ7;P60520;O95295;Q14677;Q5VYK3;Q9H0R8;Q9BY43;Q9UBF2;Q9P0V3;Q8N4B1;Q8IV53;O75843;Q96NA2;C9J3V5;Q99932;Q15363;Q8TAC9;Q53G59;Q96PC3;Q9HBM0;Q9H3C7;Q86YS3;Q86YT6;Q8TD16;Q9H9C1;Q12772;Q8IVI9;O95166;Q6Q0C0;Q13367;Q05084;Q15276;Q12904;P56377;Q93050;Q6P3S1;P61923;Q96G01;Q8WV24;Q9BVN2}

2324 Pathogen[ P03363] interacts with 80 human  
 partners: {Q9H201;Q9UNH7;Q9H3S7;Q8IVI9;Q9H9C1;O15524;Q13367;Q6ICB4;Q9P0V3;Q92543;O43747;C9J3V5;O75340;O14786;P48444;Q9H492;Q96B97;Q8NFW9;Q8WV24;Q9Y678;Q9BXW4;O15049;Q8TCI5;P10768;Q9H6Q3;Q96RU3;Q00610;Q96JI7;Q8IY63;O14579;P53618;O75970;P60520;Q8N4B1;Q9BXS5;Q9P299;P61923;Q13425;Q9Y2J4;Q92572;Q9H0R8;Q9C0C7;P30622;Q96A56;Q14677;Q7Z3C6;Q05084;Q53G59;O95295;Q9BVN2;P35606;O75969;Q6P3S1;Q96NA2;Q9UKJ5;Q9UBF2;Q9H3C7;O75843;O43516;O75146;O60333;O00165;P52594;O00161;O14641;P09497;Q96LB3;Q8TD16;P53675;O95166;Q96N21;P55735;Q8IXH6;Q8IV53;O00291;Q15276;Q10567;Q5VYK3;Q9NX95;P53990}

2325 [Cluster 212]GO:0031838+C cellular\_component [name] haptoglobin-hemoglobin complex  
 [def] "A protein complex formed by the stable binding of a haptoglobin to hemoglobin."  
 [GOC]

2326 Pathogen[ Q2Q067] interacts with 2 human partners: {P68871;P69905}

2327 Pathogen[ P0C214] interacts with 2 human partners: {P69905;P68871}

2328 Pathogen[ P03346] interacts with 2 human partners: {P69905;P68871}

2329 Pathogen[ Q85601] interacts with 2 human partners: {P69905;P68871}

2330 Pathogen[ P14079] interacts with 2 human partners: {P69905;P68871}

2331 Pathogen[ P03383] interacts with 2 human partners: {P69905;P68871}

2332 Pathogen[ P03410] interacts with 2 human partners: {P68871;P69905}

2333 Pathogen[ P14075] interacts with 2 human partners: {P68871;P69905}

2334 Pathogen[ P0C206] interacts with 2 human partners: {P68871;P69905}

2335 Pathogen[ P03363] interacts with 2 human partners: {P69905;P68871}

2336 [Cluster 213]GO:0031981+C cellular\_component [name] nuclear lumen [def] "The volume enclosed by the nuclear inner membrane." [GOC]

2337 Pathogen[ Q2Q067] interacts with 2 human partners: {Q5VWP3;Q9UHQ1}

2338 Pathogen[ P0C214] interacts with 2 human partners: {Q9UHQ1;Q5VWP3}

2339 Pathogen[ P03346] interacts with 3 human partners: {Q5VWP3;Q8WXH0;Q9UHQ1}

2340 Pathogen[ Q85601] interacts with 2 human partners: {Q5VWP3;Q9UHQ1}

2341 Pathogen[ P14079] interacts with 3 human partners:{Q9UHQ1;Q5VWP3;Q8WXH0}

2342 Pathogen[ P03383] interacts with 1 human partners:{Q9UHQ1}

2343 Pathogen[ P03410] interacts with 3 human partners:{Q9UHQ1;Q5VWP3;Q8WXH0}

2344 Pathogen[ P14075] interacts with 2 human partners:{Q5VWP3;Q9UHQ1}

2345 Pathogen[ P0C206] interacts with 3 human partners:{Q9UHQ1;Q8WXH0;Q5VWP3}

2346 Pathogen[ P03363] interacts with 2 human partners:{Q9UHQ1;Q5VWP3}

2347 [Cluster 214]GO:0000228+C cellular\_component [name] nuclear chromosome [def] "A chromosome found in the nucleus of a eukaryotic cell." [GOC

2348 Pathogen[ Q2Q067] interacts with 16 human partners:{Q9BY41;Q9NYB0;Q14549;O96006;P11387;O95347;P11388;Q969G3;Q15021;Q96BK5;P46100;O60216;Q9NRL2;Q86U86;Q12824;O15392}

2349 Pathogen[ P0C214] interacts with 17 human partners:{Q96BK5;Q9NRL2;Q12824;P20585;O96006;O95347;Q969G3;P46100;P11388;P11387;O15392;P05412;Q9NYB0;Q86U86;O60216;Q15021;Q9BY41}

2350 Pathogen[ P03346] interacts with 22 human partners:{P05412;Q99811;O96006;P46100;O15392;P11388;O95347;Q12824;Q86U86;Q9NRL2;Q15021;P20585;Q9BY41;Q96BK5;Q9NYB0;Q9Y2Y4;Q969G3;O60216;Q14549;P35452;P11387;Q9HBU1}

2351 Pathogen[ Q85601] interacts with 19 human partners:{O95347;Q9BY41;Q14549;Q9Y2Y4;O15392;O60216;P11387;Q969G3;Q96BK5;P20585;P05412;P11388;Q9NRL2;O96006;Q86U86;Q9NYB0;Q12824;P46100;Q15021}

2352 Pathogen[ P14079] interacts with 18 human partners:{P11388;P20585;Q9Y2Y4;Q9NRL2;Q86U86;O15392;O60216;P46100;Q14549;O95347;Q9BY41;Q9NYB0;Q96BK5;Q12824;P52701;P05412;Q15021;O96006}

2353 Pathogen[ P03383] interacts with 14 human partners:{Q86U86;Q12824;Q9NYB0;O96006;Q96BK5;O95347;P11387;O60216;P46100;Q969G3;Q9BY41;Q9NRL2;Q15021;P05412}

2354 Pathogen[ P03410] interacts with 20 human partners:{O15392;O96006;P20585;Q9BY41;Q14549;Q86U86;O60216;O95347;P52701;Q969G3;Q9NRL2;P11387;P46100;P05412;P11388;Q9Y2Y4;Q96BK5;Q9NYB0;Q12824;Q15021}

2355 Pathogen[ P14075] interacts with 13 human partners:{Q9BY41;P11387;P05412;Q9NRL2;O95347;Q96BK5;P46100;Q86U86;Q12824;O60216;O96006;Q15021;Q9NYB0}

2356 Pathogen[ P0C206] interacts with 20 human partners:{O60216;P52701;P05412;P46100;Q15021;Q9NRL2;Q12824;Q96BK5;Q86U86;O95347;O96006;O15392;Q9NYB0;Q969G3;P20585;P11388;Q9BY41;P11387;Q14549;Q9Y2Y4}

2357 Pathogen[ P03363] interacts with 21 human partners:{Q99592;Q15021;Q9NRL2;Q9BY41;P11387;Q96BK5;O95347;Q9NYB0;P46100;P20585;Q14549;Q969G3;O96006;Q86U86;Q9Y2Y4;P05412;P35452;Q99811;Q12824;Q9HBU1;O60216}

2358 [Cluster 215]GO:0035267+C cellular\_component [name] NuA4 histone acetyltransferase complex [def] "A complex having histone acetylase activity on chromatin, as well as ATPase, DNA helicase and structural DNA binding activities. The complex is thought to be involved in double-strand DNA break repair. Subunits of the human complex include HTATIP/TIP60, TRRAP, RUVBL1, BUVBL2, beta-actin and BAF53/ACTL6A. In yeast, the complex has 13 subunits, including the catalytic subunit Esa1 (homologous to human Tip60)." [GOC

2359 Pathogen[ Q2Q067] interacts with 11 human partners:{Q9Y4A5;Q9NXR8;Q9NPF5;Q52LR7;O96019;Q9HAF1;Q92993;Q9UBU8;O95619;Q9H2F5;Q9H0E9}

2360 Pathogen[ P0C214] interacts with 11 human partners:{Q92993;P60709;Q52LR7;Q9H2F5;O95619;Q9HAF1;Q9UBU8;Q9Y4A5;Q9H0E9;O96019;Q9NPF5}

2361 Pathogen[ P03346] interacts with 12 human partners:{Q52LR7;P60709;Q9H0E9;O96019;Q9Y4A5;Q9UBU8;Q9H2F5;O95619;Q9HAF1;Q92993;Q9NXR8;Q9NPF5}

2362 Pathogen[ Q85601] interacts with 12 human partners:{O95619;Q9H2F5;Q52LR7;Q9HAF1;Q9Y4A5;Q9H0E9;Q9UBU8;O96019;P60709;Q92993;Q9NXR8;Q9NPF5}

2363 Pathogen[ P14079] interacts with 10 human partners:{Q9Y4A5;Q9UBU8;Q52LR7;Q9HAF1;Q9H0E9;Q9NPF5;P60709;Q9H2F5;O95619;Q92993}

2364 Pathogen[ P03383] interacts with 10 human partners:{O96019;Q52LR7;Q9Y4A5;Q9H2F5;Q9UBU8;Q92993;Q9H0E9;Q9NPF5;Q9HAF1;O95619}

2365 Pathogen[ P03410] interacts with 11 human partners:{O95619;Q52LR7;O96019;Q9NPF5;Q9UBU8;Q9H2F5;Q9Y4A5;Q9NXR8;Q9H0E9;Q92993;P60709}

2366 Pathogen[ P14075] interacts with 9 human partners:{Q9H2F5;Q9UBU8;Q52LR7;O95619;Q9Y4A5;Q92993;Q9NPF5;O96019;Q9HAF1}

2367 Pathogen[ P0C206] interacts with 12 human partners:{P60709;Q9H2F5;Q9NPF5;Q9UBU8;Q52LR7;Q92993;Q9NXR8;O96019;Q9Y4A5;O95619;Q9HAF1;Q9H0E9}

2368 Pathogen[ P03363] interacts with 11 human partners:{Q9NPF5;O95619;P60709;Q9H2F5;Q52LR7;Q9HAF1;Q9UBU8;O96019;Q9Y4A5;Q9H0E9;Q92993}

2369 [Cluster 216]GO:0000939+C cellular\_component [name] condensed chromosome inner kinetochore [def] "The region of a condensed chromosome kinetochore closest to centromeric DNA\_ in mammals the CREST antigens (CENP proteins) are found in this layer\_ this layer may help define underlying centromeric chromatin structure and position of the kinetochore on the chromosome." [GOC

2370 Pathogen[ Q2Q067] interacts with 2 human partners: {P49450;Q13416}

2371 Pathogen[ P0C214] interacts with 2 human partners: {P49450;Q13416}

2372 Pathogen[ P03346] interacts with 2 human partners: {P49450;Q13416}

2373 Pathogen[ Q85601] interacts with 2 human partners: {P49450;Q13416}

2374 Pathogen[ P14079] interacts with 2 human partners: {Q13416;P49450}

2375 Pathogen[ P03383] interacts with 1 human partners: {Q13416}

2376 Pathogen[ P03410] interacts with 2 human partners: {Q13416;P49450}

2377 Pathogen[ P14075] interacts with 1 human partners: {Q13416}

2378 Pathogen[ P0C206] interacts with 2 human partners: {Q13416;P49450}

2379 Pathogen[ P03363] interacts with 2 human partners: {Q13416;P49450}

2380 [Cluster 217]GO:0045202+C cellular\_component [name] synapse [def] "The junction between a nerve fiber of one neuron and another neuron or muscle fiber or glial cell\_ the site of interneuronal communication. As the nerve fiber approaches the synapse it enlarges into a specialized structure, the presynaptic nerve ending, which contains mitochondria and synaptic vesicles. At the tip of the nerve ending is the presynaptic membrane\_ facing it, and separated from it by a minute cleft (the synaptic cleft) is a specialized area of membrane on the receiving cell, known as the postsynaptic membrane. In response to the arrival of nerve impulses, the presynaptic nerve ending secretes molecules of neurotransmitters into the synaptic cleft. These diffuse across the cleft and transmit the signal to the postsynaptic membrane." [ISBN

2381 Pathogen[ Q2Q067] interacts with 48 human partners: {O00213;P07737;Q96B97;O95886;Q8N3V7;Q9NSC5;O95295;Q92870;Q9P1A6;Q13884;Q8IZP0;Q96EV8;O14910;P63279;Q86UL8;P63165;Q12959;Q9NYF0;O95721;P11532;Q8NFW9;P78352;Q05084;Q96F07;Q9Y6N9;Q9UPX8;Q92796;P46939;Q9C0D0;Q9Y6X2;O60299;Q9NZU7;P50570;Q9UQF2;Q86WG3;Q8TAC9;Q9NRI5;Q13425;O00161;Q9UPA5;Q9BVN2;Q9Y296;Q66K74;Q9Y250;O15083;Q96EY1;Q9NUP9;O14490}

2382 Pathogen[ P0C214] interacts with 48 human partners: {Q8NFW9;Q9Y6X2;O14490;O00213;O15083;O14910;Q8IZP0;Q9UPX8;Q9NRI5;O95295;Q92796;Q8TAC9;P62166;Q9Y6N9;Q96F07;Q9UPU9;P63279;Q9P1A6;O60299;O95721;Q9Y296;Q9NSC5;Q13884;Q9Y250;P11532;P78352;Q13425;P63165;Q9Y2H0;P46939;O95886;Q9NZU7;Q96EV8;Q12959;Q9UQF2;Q9HD26;Q9C0D0;Q9BVN2;P50570;Q05084;Q86WG3;Q8N3V7;Q9NYF0;O00161;Q96B97;Q96EY1;Q92870;Q66K74}

2383 Pathogen[ P03346] interacts with 70 human partners: {Q13425;Q9Y6N9;Q9NSC5;Q9NRI5;Q8N3V7;O14490;O00213;Q96B97;P50570;Q96A65;Q96F07;O95295;P78352;Q8IZP0;Q13884;Q6ZWB6;Q9NZU7;Q9Y6D5;O75970;Q66K74;P63279;Q6XZF7;Q05084;P46939;O15083;Q92870;Q9Y215;Q92796;Q68DU8;O00161;Q9P021;Q9Y2H0;Q8TAC9;Q9NUP9;Q86UL8;Q96EV8;Q9HD26;Q9Y296;Q9Y4G6;O95721;P63165;Q9Y250;O95886;Q9C0D0;P62166;O60299;Q8NFW9;Q9HAP6;Q9NYF0;Q15700;Q9UQF2;P11532;Q9BVN2;Q9UI14;P07737;P56545;Q96CX2;Q9C0H9;Q9Y6X2;Q9ULU8;Q9Y2J0;Q9UPX8;P0C2W1;Q96EY1;Q9NRD5;O14910;Q86WG3;Q9P1A6;Q9UPA5;Q12959}

2384 Pathogen[ Q85601] interacts with 54 human partners: {O14490;Q9Y250;O00213;Q8NFW9;Q9UPX8;Q9NZU7;Q9NUP9;O14910;Q96A65;Q13884;Q96F07;O95295;Q8TAC9;Q9Y6X2;Q86UL8;Q9NYF0;Q9P1A6;Q9BVN2;Q66K74;O15083;P11532;Q9Y296;P63279;Q9UQF2;P07737;Q96EV8;Q9HD26;Q9Y6N9;Q9UPA5;Q8N3V7;P46939;Q13425;P50570;Q96B97;P78352;Q92796;Q9C0D0;Q12959;Q86WG3;P63165;Q9NSC5;Q92870;Q9NRI5;Q96CX2;O95886;Q8IZP0;P17677;Q9UPU9;P62166;O00161;Q96EY1;Q05084;O95721;O60299}

2385 Pathogen[ P14079] interacts with 74 human partners: {Q9Y296;O14810;O43759;Q6XZF7;Q05084;P63279;P17677;Q8TB68;Q86WG3;Q9C0D0;P11532;Q9BVN2;Q9Y6X2;Q15700;Q9UQF2;Q66K74;Q9Y6D5;Q9ULU8;Q9UPU9;Q9Y250;Q9UPA5;P07737;Q9UI14;Q8IZP0;Q9NRI5;O00213;Q96B97;P63165;Q14118;Q9Y4G6;Q9C0H9;Q9Y2H0;P46939;P50570;P35611;B4DS77;Q9HD26;Q9NUP9;O95721;Q6PUV4;Q7Z7J9;Q8NFW9;Q8TAC9;P62166;Q8N3V7;Q68DU8;Q9HAP6;O43612;Q9NSC5;O15083;O95295;Q5T0D9;Q96F07;Q8WVH0;Q86UL8;Q96A65;Q9Y6N9;Q96CX2;O60299;O95886;Q7Z7G2;Q96EV8;Q9P021;Q9P1A6;Q92796;Q9Y4J8;O43761;Q96EY1;Q9NZU7;O14490;O75970;Q9NYF0;Q92870;Q9UPX8}

2386 Pathogen[ P03383] interacts with 37 human partners: {O00213;Q9P1A6;Q13884;O95295;Q9HD26;Q9NRI5;Q86WG3;Q8TAC9;O95886;O60299;O14490;Q9Y296;Q9UQF2;P07737;P46939;Q96EV8;Q92870;Q05084;Q96F07;P63165;Q9Y6X2;P11532;Q9NSC5;Q9NYF0;Q92796;Q8N3V7;O00161;O15083;Q9C0H9;P78352;Q9Y2H0;Q96EY1;O14910;P63279;Q13425;Q9BVN2;Q9Y250}

2387 Pathogen[ P03410] interacts with 84 human partners: {Q9BVN2;Q9P1A6;O14910;Q8N3V7;Q8TAC9;O43612;Q9Y2J0;P63165;Q12959;Q9C0D0;O43759;O60299;O14810;P11532;Q9Y2H0;Q86WG3;Q13425;Q68DU8;Q9Y6X2;O00213;Q8TB68;Q9NUP9;P50570;Q9NSC5;O14490;Q8WVH0;Q05084;O43761;Q8NFW9;Q13884;Q9HAP6;Q15700;O95295;Q6ZWB6;Q9HD26;O75970;Q9NRD5;Q7Z7G2;Q96CX2;Q9UPA5;Q96A65;Q9UPU9;Q9Y6N9;P46939;Q92796;Q6XZF7;Q9ULU8;Q9Y6D5;Q7Z7J9;Q14118;Q9Y4G6;Q9NZU7;Q6PUV4;Q9NYF0;Q8IZP0;Q66K74;Q9NRI5;B4DS77;P63279;Q5T0D9;P17677;Q96B97;O95886;Q9Y296;Q9Y250;Q9UPX8;Q86UL8;Q96F07;Q9P021;Q9UQF2;Q9C0H9;O95721;P62166;P78352;P07737;Q9UI14;O00161;P35611;Q96EV8;Q96EY1;Q9Y215;Q9Y4J8;O15083;Q92870}

2388 Pathogen[ P14075] interacts with 39 human partners: {Q96F07;O00213;P63165;Q86WG3;P11532;Q8N3V7;Q13884;O15083;O95295;Q9BVN2;Q13425;O95886;Q92870;Q9Y250;Q9HD26;P63279;Q5T0D9;Q9NRI5;P07737;O14910;O60299;Q9NSC5;P46939;O14490;Q92796;O00161;Q05084;Q9P1A6;Q96EV8;P78352;Q8TAC9;Q9Y2H0;Q9C0H9;Q9UPA5;Q9Y296;Q9NYF0;Q9UQF2;Q9Y6X2;Q96EY1}

2389 Pathogen[ P0C206] interacts with 68 human partners: {P46939;Q9NUP9;P78352;Q9Y296;Q96F07;P17677;Q8N3V7;P62166;Q15700;O43759;O95721;Q9Y6N9;Q9UPA5;Q9Y2J0;Q96CX2;Q96B97;Q9P021;Q8NFW9;O95886;O60299;Q9UQF2;Q9NZU7;Q96A65;Q9C0D0;Q9UI14;Q9Y6X2;Q66K74;O00161;Q5T0D9;O00213;Q9Y2H0;Q9Y4J8;Q13884;O14490;Q9ULU8;

Q7Z7G2;Q9NSC5;O15083;Q9UPU9;Q8IZP0;Q13425;Q9Y6D5;Q96EV8;Q9NRI5;Q6PUV4;Q9UPX8;Q92870;O14910;O95295;Q9C0H9;Q9NYF0;Q6XZF7;Q92796;P63165;P11532;Q86UL8;P07737;Q8TAC9;Q86WG3;Q96EY1;Q9NRD5;Q12959;Q9HD26;Q9Y250;Q05084;P50570;Q9P1A6;Q9BVN2}

2390 Pathogen[ P03363] interacts with 60 human partners: {Q9P021;Q9Y6N9;Q12959;Q8IZP0;Q8N3V7;P46939;P36575;Q66K74;O00213;Q9UQF2;Q9UPX8;Q96B97;Q8NFW9;Q96A65;O14910;P78352;P50570;P56545;Q96F07;Q9C0D0;Q9NYF0;Q15700;O75970;Q7L576;Q9NVA2;Q9Y4G6;Q13425;Q9Y6X2;Q9NSC5;P63165;Q86WG3;Q9UPU9;Q9Y250;Q6XZF7;O95721;P11532;Q92870;Q05084;Q9Y215;Q9NZU7;P63279;Q13884;O95295;Q9BVN2;Q9UPA5;O15083;Q9NRI5;Q86UL8;O95886;Q9Y296;Q9P1A6;O14490;Q92796;O00161;Q9NUP9;O60299;Q96EY1;Q9HD26;P07737;Q9C0H9}

2391 [Cluster 218]GO:0031618+C cellular\_component [name] nuclear centromeric heterochromatin [def] "A region of heterochromatin located near the centromere of a chromosome in the nucleus." [GOC

2392 Pathogen[ Q2Q067] interacts with 3 human partners: {Q13185;P42695;P45973}

2393 Pathogen[ P0C214] interacts with 3 human partners: {P42695;Q13185;P45973}

2394 Pathogen[ P03346] interacts with 3 human partners: {P45973;P42695;Q13185}

2395 Pathogen[ Q85601] interacts with 3 human partners: {P42695;P45973;Q13185}

2396 Pathogen[ P14079] interacts with 3 human partners: {P45973;Q13185;P42695}

2397 Pathogen[ P03383] interacts with 2 human partners: {Q13185;P45973}

2398 Pathogen[ P03410] interacts with 3 human partners: {P42695;P45973;Q13185}

2399 Pathogen[ P14075] interacts with 2 human partners: {P45973;Q13185}

2400 Pathogen[ P0C206] interacts with 3 human partners: {P45973;P42695;Q13185}

2401 Pathogen[ P03363] interacts with 3 human partners: {P45973;Q13185;P42695}

2402 [Cluster 219]GO:0005847+C cellular\_component [name] mRNA cleavage and polyadenylation specificity factor complex [def] "A multisubunit complex that binds to the canonical AAUAAA hexamer and to U-rich upstream sequence elements on the pre-mRNA, thereby stimulating the otherwise weakly active and nonspecific polymerase to elongate efficiently RNAs containing a poly(A) signal." [PMID

2403 Pathogen[ Q2Q067] interacts with 6 human partners: {P33240;O95639;Q6UN15;Q10570;Q9P2I0;Q9UKF6}

2404 Pathogen[ P0C214] interacts with 6 human partners: {Q9UKF6;Q10570;Q9P2I0;P33240;O95639;Q6UN15}

2405 Pathogen[ P03346] interacts with 6 human partners: {O95639;Q9UKF6;Q6UN15;Q9P2I0;Q10570;P33240}

2406 Pathogen[ Q85601] interacts with 6 human partners: {Q10570;Q9P2I0;O95639;Q6UN15;Q9UKF6;P33240}

2407 Pathogen[ P14079] interacts with 6 human partners: {Q9UKF6;Q10570;P33240;O95639;Q6UN15;Q9P2I0}

2408 Pathogen[ P03383] interacts with 5 human partners: {Q10570;Q9UKF6;P33240;Q9P2I0;Q6UN15}

2409 Pathogen[ P03410] interacts with 6 human partners: {O95639;Q10570;Q6UN15;Q9P2I0;P33240;Q9UKF6}

2410 Pathogen[ P14075] interacts with 5 human partners: {Q9P2I0;Q6UN15;P33240;Q9UKF6;Q10570}

2411 Pathogen[ P0C206] interacts with 6 human partners: {P33240;Q9UKF6;Q6UN15;Q9P2I0;O95639;Q10570}

2412 Pathogen[ P03363] interacts with 5 human partners: {Q9P2I0;Q10570;Q6UN15;Q9UKF6;P33240}

2413 [Cluster 220]GO:0000153+C cellular\_component [name] cytoplasmic ubiquitin ligase complex [def] "A ubiquitin ligase complex found in the cytoplasm." [GOC

2414 Pathogen[ Q2Q067] interacts with 1 human partners: {Q9NT62}

2415 Pathogen[ P0C214] interacts with 1 human partners: {Q9NT62}

2416 Pathogen[ P03346] interacts with 1 human partners: {Q9NT62}

2417 Pathogen[ Q85601] interacts with 1 human partners: {Q9NT62}

2418 Pathogen[ P14079] interacts with 1 human partners: {Q9NT62}

2419 Pathogen[ P03383] interacts with 1 human partners: {Q9NT62}

2420 Pathogen[ P03410] interacts with 1 human partners: {Q9NT62}

2421 Pathogen[ P14075] interacts with 1 human partners: {Q9NT62}

2422 Pathogen[ P0C206] interacts with 1 human partners: {Q9NT62}

2423 Pathogen[ P03363] interacts with 1 human partners: {Q9NT62}

2424 [Cluster 221]GO:0030027+C cellular\_component [name] lamellipodium [def] "A thin sheetlike process extended by the leading edge of a crawling fibroblast\_ contains a dense meshwork of actin filaments." [ISBN

2425 Pathogen[ Q2Q067] interacts with 21 human partners: {P22392;O00213;P31749;Q7Z6J0;Q8WX93;Q8IY63;Q92870;Q14511;Q8IZP0;O00401;Q92558;Q96QF0;Q96IF1;O14713;P06396;Q9NVD7;Q15833;P63000;O00165;P61586;O60716}

2426 Pathogen[ P0C214] interacts with 23 human partners: {Q15833;Q9UI08;O00213;P63000;Q7Z6J0;Q8IZP0;O60716;P61586;P06396;Q9NZI8;O00165;Q14511;Q92558;Q8IY63;O00401;Q96GD0;Q9NVD7;P22392;Q5VZK9;Q96QF0;O14713;Q92870;P31749}

2427 Pathogen[ P03346] interacts with 29 human partners: {Q15833;O00213;Q8WX93;Q14511;O60716;Q7Z6J0;Q8IZP0;Q14247;Q9NZI8;Q96IF1;Q8IZE3;Q9UI08;Q92870;Q8IY63;P31749;Q92558;Q9UI47;O14713;O15145;P22392;Q9NVD7;O00165;P06396;O00401;P63000;Q9P2A4;Q5VZK9;Q96QF0;P61586}

2428 Pathogen[ Q85601] interacts with 22 human partners: {O00401;O00213;Q8WX93;Q9NVD7;P31749;P06396;O00165;Q92558;Q15833;Q8IY63;O1471



2429 3;P63000;O60716;Q7Z6J0;Q5VZK9;P22392;P61586;Q96IF1;Q92870;Q8IZP0;Q14511;Q96QF0}  
 Pathogen[ P14079] interacts with 31 human  
 partners:{P31751;P09327;Q8IZ21;Q92558;Q9UI47;P47756;Q8WX93;O00165;Q8IZP0;O00213;Q14118;P50552;Q96GD0;O15145;Q15833;P22392;Q96IF1;P61158;Q96QF0;Q9P2A4;P61586;Q14247;O14713;P49023;Q9NVD7;O60716;Q8IY63;P35241;Q92870;O00401;Q9UI08}

2430 Pathogen[ P03383] interacts with 15 human  
 partners:{O60716;O00213;Q96QF0;O14713;P31749;P22392;P63000;O00165;Q92558;Q92870;O00401;P61586;Q14511;Q8IY63;P06396}

2431 Pathogen[ P03410] interacts with 33 human  
 partners:{Q15833;Q9UI08;Q8IZE3;P47756;P63000;Q8IZ21;P06396;O00165;Q92558;O14713;O60716;O15145;O00401;P31749;Q9P2A4;Q96IF1;Q96GD0;P50552;Q14511;P61586;Q7Z6J0;Q14118;Q8IZP0;Q96QF0;Q9UI47;Q9NVD7;Q14247;P35241;Q5VZK9;Q8IY63;Q8WX93;Q92870}

2432 Pathogen[ P14075] interacts with 15 human  
 partners:{O00213;Q14511;O14713;Q92870;Q8IY63;P31749;O00401;P06396;P61586;P63000;Q96QF0;Q92558;O60716;O00165;P22392}

2433 Pathogen[ P0C206] interacts with 27 human  
 partners:{O60716;P06396;P31749;P47756;Q7Z6J0;P22392;Q9NVD7;Q96IF1;Q8IY63;O14713;Q8WX93;Q9UI08;Q9UI47;O15145;P61586;O00213;Q96QF0;O00165;P63000;Q8IZP0;Q5VZK9;Q92558;Q92870;O00401;Q96GD0;Q15833;Q14511}

2434 Pathogen[ P03363] interacts with 29 human  
 partners:{Q8IZP0;Q9UI47;Q14247;O00213;Q5VZK9;Q8IY63;O14713;Q92558;P63000;Q7L576;Q96IF1;P06396;Q9UI08;Q9NZI8;P31749;Q14511;Q92870;Q8WX93;Q12923;Q7Z6J0;O00401;Q8IZE3;O00165;Q9NVD7;O60716;O15145;Q9P2A4;Q96QF0;Q15833}

2435 [Cluster 222]GO:0031597+C cellular\_component [name] cytosolic proteasome complex [def]  
 "A proteasome complex found in the cytosol of a cell." [GOC]

2436 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NRR5}

2437 Pathogen[ P0C214] interacts with 1 human partners:{Q9NRR5}

2438 Pathogen[ P03346] interacts with 1 human partners:{Q9NRR5}

2439 Pathogen[ Q85601] interacts with 1 human partners:{Q9NRR5}

2440 Pathogen[ P14079] interacts with 1 human partners:{Q9NRR5}

2441 Pathogen[ P03383] interacts with 1 human partners:{Q9NRR5}

2442 Pathogen[ P03410] interacts with 1 human partners:{Q9NRR5}

2443 Pathogen[ P14075] interacts with 1 human partners:{Q9NRR5}

2444 Pathogen[ P0C206] interacts with 1 human partners:{Q9NRR5}

2445 Pathogen[ P03363] interacts with 1 human partners:{Q9NRR5}

2446 [Cluster 223]GO:0019005+C cellular\_component [name] SCF ubiquitin ligase complex [def]  
 "A ubiquitin ligase complex in which a cullin from the Cull1 subfamily and a RING domain protein form the catalytic core\_ substrate specificity is conferred by a Skp1 adaptor and an F-box protein. SCF complexes are involved in targeting proteins for degradation by the proteasome. The best characterized complexes are those from yeast and mammals (with core subunits named Cdc53/Cull1, Rbx1/Hrt1/Roc1)." [PMID]

2447 Pathogen[ Q2Q067] interacts with 16 human  
 partners:{P19474;Q9UJT9;Q9Y297;P41002;Q9H4M3;Q13616;Q8NI29;Q9UKT7;Q13309;Q969H0;Q8TCJ0;Q9NRD1;Q96EF6;P63208;Q9UKT5;P62877}

2448 Pathogen[ P0C214] interacts with 19 human  
 partners:{Q9UKA1;P19474;P41002;Q13309;P63208;Q8NI29;Q9NRD1;Q9Y297;P62877;Q9UKT7;Q13616;Q969H0;Q9H469;Q8TCJ0;Q9UJT9;Q96EF6;Q5XUX0;Q9H4M3;Q9UKT5}

2449 Pathogen[ P03346] interacts with 21 human  
 partners:{Q9UKT7;Q9H469;Q13616;Q9UJT9;Q969U6;P41002;Q9UKA1;P62877;Q8TCJ0;Q8NI29;Q13309;Q9UKT5;Q9H4M3;Q9NRD1;P63208;Q96EF6;P19474;Q9Y297;Q969H0;Q8N3Y1;Q5XUX0}

2450 Pathogen[ Q85601] interacts with 18 human  
 partners:{Q9H4M3;Q13309;Q969H0;P62877;Q13616;P41002;Q9UKA1;Q8N3Y1;Q9UKT7;P63208;Q8NI29;Q9H469;Q9UJT9;Q96EF6;P19474;Q8TCJ0;Q9UKT5;Q9NRD1}

2451 Pathogen[ P14079] interacts with 18 human  
 partners:{Q5XUX0;Q8NI29;Q9UKT5;Q969H0;Q13309;Q8N3Y1;Q8TCJ0;P62877;Q96EF6;P19474;P41002;Q9H4M3;Q9UKT7;Q9NRD1;P63208;Q9UJT9;Q13616;Q8NCQ5}

2452 Pathogen[ P03383] interacts with 15 human  
 partners:{P41002;Q13616;P19474;Q8NI29;P63208;Q9UKT7;Q9UKT5;Q8TCJ0;Q969H0;P62877;Q13309;Q9NRD1;Q96EF6;Q9H4M3;Q5XUX0}

2453 Pathogen[ P03410] interacts with 19 human  
 partners:{Q9H469;Q9UKT7;Q9H4M3;Q9NRD1;Q8TCJ0;Q9UKT5;Q5XUX0;P41002;P63208;Q13309;Q969H0;P62877;Q8NI29;Q969U6;Q13616;Q8NCQ5;Q8N3Y1;Q9UJT9;Q96EF6}

2454 Pathogen[ P14075] interacts with 15 human  
 partners:{Q9UKT7;Q9UKT5;Q96EF6;P63208;Q8TCJ0;P19474;Q13309;Q8NI29;Q9H4M3;Q9NRD1;P41002;Q13616;Q969H0;Q5XUX0;P62877}

2455 Pathogen[ P0C206] interacts with 20 human  
 partners:{Q9UJT9;P62877;Q13309;Q9H4M3;Q9UKA1;Q969H0;Q13616;Q8TCJ0;Q8N3Y1;Q9NRD1;Q9UKT7;P63208;Q8NI29;Q5XUX0;Q9H469;Q96EF6;Q9UKT5;P41002;Q969U6;P19474}

2456 Pathogen[ P03363] interacts with 20 human  
 partners:{Q8NI29;Q13309;Q9UJT9;P41002;Q9H4M3;Q96EF6;Q13616;P62877;Q9UKT5;P19474;Q969H0;Q9UKA1;Q8TCJ0;Q969U6;Q9UKT7;Q5XUX0;Q9NRD1;P63208;Q9H469;Q8N3Y1}

2457 [Cluster 224]GO:0005664+C cellular\_component [name] nuclear origin of replication recognition complex [def]  
 "A multisubunit complex that is located at the replication origins of a chromosome in the nucleus." [GOC]

2458 Pathogen[ Q2Q067] interacts with 5 human  
 partners:{Q13415;Q9UBD5;O43913;Q9Y5N6;Q13416}

2459 Pathogen[ P0C214] interacts with 5 human partners:{O43913;Q9Y5N6;Q13416;Q9UBD5;Q13415}

2460 Pathogen[ P03346] interacts with 6 human partners:{Q9Y5N6;Q9UBD5;Q13415;Q13416;O43929;O43913}

2461 Pathogen[ Q85601] interacts with 5 human partners:{O43913;Q13415;Q9Y5N6;Q9UBD5;Q13416}

2462 Pathogen[ P14079] interacts with 7 human partners:{Q13416;Q13415;Q9Y5N6;O43913;Q9BWE0;Q9UBD5;O43929}

2463 Pathogen[ P03383] interacts with 4 human partners:{Q9UBD5;O43913;Q9Y5N6;Q13416}

2464 Pathogen[ P03410] interacts with 7 human partners:{Q9BWE0;O43929;Q13416;Q9Y5N6;O43913;Q9UBD5;Q13415}

2465 Pathogen[ P14075] interacts with 4 human partners:{Q9Y5N6;Q9UBD5;O43913;Q13416}

2466 Pathogen[ P0C206] interacts with 5 human partners:{O43913;Q9UBD5;Q13416;Q9Y5N6;Q13415}

2467 Pathogen[ P03363] interacts with 5 human partners:{Q13416;Q13415;Q9UBD5;Q9Y5N6;O43913}

2468 [Cluster 225]GO:0070937+C cellular\_component [name] CRD-mediated mRNA stability complex [def] "A protein complex that binds to, and promotes stabilization of, mRNA molecules containing the coding region instability determinant (CRD). In human, IGF2BP1 and at least four additional proteins

2469 Pathogen[ Q2Q067] interacts with 4 human partners:{P67809;O60506;Q08211;Q00839}

2470 Pathogen[ P0C214] interacts with 5 human partners:{P67809;Q9NZI8;O60506;Q08211;Q00839}

2471 Pathogen[ P03346] interacts with 5 human partners:{O60506;Q9NZI8;Q00839;Q08211;P67809}

2472 Pathogen[ Q85601] interacts with 4 human partners:{O60506;Q08211;P67809;Q00839}

2473 Pathogen[ P14079] interacts with 4 human partners:{P67809;Q08211;Q00839;O60506}

2474 Pathogen[ P03383] interacts with 2 human partners:{P67809;Q00839}

2475 Pathogen[ P03410] interacts with 4 human partners:{Q00839;P67809;O60506;Q08211}

2476 Pathogen[ P14075] interacts with 2 human partners:{Q00839;P67809}

2477 Pathogen[ P0C206] interacts with 4 human partners:{P67809;Q08211;O60506;Q00839}

2478 Pathogen[ P03363] interacts with 5 human partners:{Q9NZI8;O60506;Q00839;Q08211;P67809}

2479 [Cluster 226]GO:0042587+C cellular\_component [name] glycogen granule [def] "Cytoplasmic bead-like structures of animal cells, visible by electron microscope. Each granule is a functional unit with the biosynthesis and catabolism of glycogen being catalyzed by enzymes bound to the granule surface." [GOC

2480 Pathogen[ Q2Q067] interacts with 3 human partners:{P62140;P62136;Q9UQK1}

2481 Pathogen[ P0C214] interacts with 5 human partners:{P62140;O95685;P62136;Q9UQK1;Q9H7J1}

2482 Pathogen[ P03346] interacts with 5 human partners:{P62136;Q9UQK1;O95685;Q9H7J1;P62140}

2483 Pathogen[ Q85601] interacts with 3 human partners:{Q9UQK1;P62136;P62140}

2484 Pathogen[ P14079] interacts with 5 human partners:{Q9H7J1;P62136;O95685;P62140;Q9UQK1}

2485 Pathogen[ P03383] interacts with 4 human partners:{P62140;Q9UQK1;P62136;Q9H7J1}

2486 Pathogen[ P03410] interacts with 5 human partners:{P62136;O95685;Q9H7J1;P62140;Q9UQK1}

2487 Pathogen[ P14075] interacts with 5 human partners:{P62140;Q9UQK1;P62136;O95685;Q9H7J1}

2488 Pathogen[ P0C206] interacts with 5 human partners:{Q9UQK1;P62140;O95685;Q9H7J1;P62136}

2489 Pathogen[ P03363] interacts with 3 human partners:{P62136;P62140;Q9UQK1}

2490 [Cluster 227]GO:0043231+C cellular\_component [name] intracellular membrane-bounded organelle [def] "Organized structure of distinctive morphology and function, bounded by a single or double lipid bilayer membrane and occurring within the cell. Includes the nucleus, mitochondria, plastids, vacuoles, and vesicles. Excludes the plasma membrane." [GOC

2491 Pathogen[ Q2Q067] interacts with 121 human partners:{Q86W56;P04156;Q8TAF3;Q92585;Q9Y6K5;Q9UPN9;Q92681;O60664;Q13875;Q05066;O95391;Q8TD31;O00291;Q13887;Q7Z5K2;Q6RW13;Q8IZD4;Q9BRV8;P67809;Q12982;P82979;P51531;P41970;Q9Y244;Q8WV92;Q01196;O14929;P38117;Q6P1M3;Q5T1C6;O60506;O14662;Q14814;Q9UBP6;Q96AQ6;O00204;Q96EY5;Q6NZI2;Q9UNA4;P49789;Q15542;Q7L804;P52594;P41218;Q9H668;Q8N5D0;Q9Y3Y2;Q86TB9;Q13769;Q8WUY3;P57721;Q9Y5L0;Q9BQG0;O75886;Q9UBC3;Q9BY77;Q13137;O15127;P54253;Q9BTC8;Q9BTP7;P11171;P51948;Q13330;Q15437;A5D8V6;Q15643;P56279;P53992;Q674X7;Q8TBZ0;Q8ND56;P56282;P50750;Q9NWT8;Q9NZM5;O75170;Q96BK5;Q92733;P82970;Q9BRS8;Q99996;Q96JE7;Q8NFD5;Q9NRA8;Q92785;P37198;Q9NQ33;Q96QK1;Q9H9L3;Q9BVW5;Q86V15;Q9UGK3;Q14686;Q8N1V2;Q6ULP2;Q8N987;P25205;O75154;Q13895;Q9ULZ2;P61758;O14964;Q9P1Z2;Q9H9L7;Q96RE7;Q16537;Q86YV9;Q9Y2W1;Q9Y535;Q9BXF6;A2A288;O15111;Q8NFH5;Q53QV2;O60671;Q9NRR3;Q8TC71;Q14194;Q8NEZ2;Q6P2E9}

2492 Pathogen[ P0C214] interacts with 128 human partners:{P41970;Q9BY77;Q9NRR3;Q8N1V2;P82979;Q9Y5L0;Q96BK5;Q9GZZ9;Q92585;Q16537;Q13887;Q8ND56;P11413;O15111;Q13330;Q8NFH5;Q8TBZ0;Q8TD31;Q8WUY3;Q6P2E9;Q6RW13;P53992;Q8N5D0;P57721;Q9BRV8;P49789;P54253;P61758;Q13769;P50750;Q96QK1;Q92560;P62166;Q9Y6K5;O14929;Q9BQG0;P67809;Q6P1M3;Q9BVW5;P29728;Q9Y244;P41218;O14964;Q6NZI2;O75886;Q86YV9;O15127;Q86W56;Q13875;Q14194;Q9NZI8;Q92733;Q14686;Q9NWT8;Q15542;P25205;Q7L804;Q53QV2;Q14814;Q1

- 3137;Q92681;Q674X7;A2A288;Q96EY5;P37198;P51948;Q08AM6;Q9BRS8;Q9UNA4;Q12982;Q15437;Q8TAF3;Q15643;Q86TB9;P10809;Q9H9L3;O00204;Q8NEZ2;Q9BXF6;P82970;P38117;Q9ULZ2;Q9BTC8;Q96AQ6;Q9UBP6;O60671;Q7Z5K2;Q9NZM5;Q9Y535;P04156;P10909;Q13895;O60506;Q6ULP2;O60664;Q9H668;Q86V15;Q5T1C6;A5D8V6;P52594;Q8TC71;Q9P1Z2;Q99996;P35520;Q95391;Q8NFD5;P51531;Q96JE7;Q9Y2W1;Q96RE7;P56282;Q9UPN9;Q9NQ33;Q9Y3Y2;P56279;Q92785;O00291;Q14966;P11171;Q9UGK3;P36957;Q75154;Q9BTP7;P55072;Q8IZD4;O75170;Q9NRA8;Q9H9L7}
- 2493 Pathogen[ P03346] interacts with 159 human  
partners: {Q92681;Q13596;O00204;O60664;Q9UPN9;Q86YV9;Q92585;P56279;Q15542;Q9Y3Y2;Q96QK1;Q8ND56;Q13895;Q92560;O15111;A2A288;Q14814;Q9BQG0;P06401;Q15036;A5D8V6;Q9H9L3;Q7Z5K2;Q05066;Q8TC71;Q8NFD5;Q9NRR3;Q9NZM5;Q9Y3C1;O95391;Q96AQ6;Q9UNA4;Q9BRV8;Q9ULZ2;Q6P1M3;O60506;P56282;Q9NZI8;O75886;Q8NEZ2;O75170;P49789;Q12981;P82979;Q9UBC3;Q93050;Q9NQ33;Q8NFH5;Q96RE7;Q8TAF3;Q13769;P37198;O00291;P55072;Q86V15;Q6NZI2;Q9NWT8;Q9BTP7;Q8TD31;P41218;Q13813;Q9C029;Q13137;Q9C0H6;P25205;Q8NFT6;Q86TB9;Q15643;P11171;Q7Z3T8;Q14863;P10144;Q8IYM9;Q7L804;Q8N5D0;Q15020;Q8TBZ0;P67809;Q9UNH7;Q15437;Q96JE7;Q9BY77;Q9UGK3;Q9P1Z2;Q9H668;Q8TD86;Q6P2E9;P52594;Q8WV92;P42566;Q9H9L7;Q13875;P50750;Q96BK5;Q9Y535;Q13330;Q6DN90;P82970;P38117;Q01167;Q13887;Q9UBP6;Q53QV2;Q6Q0C0;P62166;Q14966;Q92733;Q8WUY3;Q13492;Q96KC8;Q16537;Q8N357;Q99996;Q86W56;Q9Y244;P41970;Q9UGL1;Q6ULP2;P56589;P04156;Q9Y5L0;Q9BXF6;Q01196;O14964;O60671;O60749;Q674X7;P54253;Q8IZD4;Q9NRA8;Q6RW13;O15516;O75154;O43933;P51531;Q12982;Q14194;Q9BZR9;Q9Y2W1;O94901;Q8N987;Q9BTC8;Q96EY5;Q9BVW5;P61758;Q9BRS8;O14662;P51948;P53992;Q9Y6K5;Q92785;O14929;Q15363;O15127;Q9NUK0;Q14686;Q5U5Q3;P57721}
- 2494 Pathogen[ Q85601] interacts with 135 human  
partners: {Q13596;Q96QK1;P10144;O60664;Q9UPN9;Q92585;Q15542;Q9Y3Y2;Q15643;Q6P2E9;Q9ULZ2;Q08AM6;Q9BTP7;O75154;Q7L804;Q9BQG0;Q14194;P50750;P49789;Q86V15;Q13769;O60506;P56282;Q96JE7;Q92733;Q56279;O15111;Q8WV92;Q14966;Q9Y535;O95391;Q15036;Q92560;Q14814;Q6P1M3;Q93050;Q12982;Q8NFT6;Q9UBP6;P41970;Q15516;Q12981;P61758;Q9BZR9;Q9NQ33;Q9BRS8;P11171;P51948;P52594;Q9Y244;O75886;Q9NWT8;Q86YV9;Q86TB9;P82979;P51531;Q7Z5K2;Q13137;Q9NRR3;Q14686;Q9BY77;Q9Y6K5;Q92785;Q16537;Q92681;Q8N1V2;P25205;Q9UGK3;O14929;Q9BXF6;Q15437;A2A288;O75170;Q96BK5;Q8N6T3;Q9H668;P41218;Q8NFD5;Q8IYM9;Q13330;Q8IZD4;P82970;P67809;Q6RW13;Q8NFH5;Q53QV2;O14964;Q8TAF3;Q9BTC8;O00204;Q9H9L3;O60671;Q99996;O43933;Q8WUY3;Q9NZM5;Q6NZI2;Q6ULP2;Q96RE7;O15127;P04156;Q9NRA8;Q8TD86;O00291;Q674X7;P54253;Q9P1Z2;P57721;Q13875;Q13895;Q8NEZ2;Q9H9L7;Q6Q0C0;Q9Y2W1;O94901;Q96EY5;Q9Y5L0;P62166;Q9C0H6;Q9UNH7;Q5T1C6;Q14662;Q9UNA4;Q96AQ6;Q8N5D0;Q13887;P53992;Q86W56;Q9BRV8;Q8TD31;Q9BVW5;Q9UBC3;Q8ND56;Q8TBZ0;A5D8V6}
- 2495 Pathogen[ P14079] interacts with 158 human  
partners: {O60671;Q8NFH5;Q96QK1;O75886;Q13492;O95070;Q9H668;Q86YV9;P41218;Q7L804;Q9UNH7;Q12982;Q96EY5;Q15036;O00291;Q6ULP2;Q8IZD4;Q16873;Q8N5D0;Q06413;Q9UNA4;Q86V15;Q99996;Q92681;Q9NWT8;P29728;Q9NRR3;Q9NZM5;P57721;P11171;P56589;O60664;Q8ND56;Q16537;P67809;P82979;P39656;P04156;Q9H1K0;Q9BT56;Q9NZ45;Q6RW13;O94901;Q8N987;Q13330;Q86TB9;P42566;Q9UGK3;Q14966;P51531;O43813;P52594;Q92785;P10909;P53992;Q9Y3Y2;Q6P2E9;P61758;P54253;Q9BY77;Q96JE7;Q15363;Q9Y244;Q13769;Q9H9L7;Q9H8M9;P82970;P27544;Q8N357;Q9ULZ2;P38117;Q9UBC3;Q9Y287;Q13875;O14929;Q9BXF6;Q9UPN9;Q9Y3C1;Q9NQ33;O00264;Q92560;Q9Y6K5;Q5T1C6;P56282;Q9BQG0;Q6IAA8;Q9BRS8;Q8WUY3;Q9H9L3;P62166;Q12981;A5D8V6;Q8NFD5;O60749;O60506;Q96AQ6;Q8NEZ2;P37198;Q14194;Q13316;O14662;Q8TD31;Q13596;Q9BTC8;P10620;Q13137;Q96RE7;Q8N1V2;Q8TBZ0;Q96S66;Q7Z3T8;Q14814;Q6NZI2;Q93050;Q9NUK0;Q9C0H6;Q86W56;Q96BK5;Q8WV92;Q9BTP7;O75154;P56279;Q6UX65;Q13895;Q9BRV8;A2A288;Q6DN90;Q8TAF3;Q96JY0;P49789;Q7Z5K2;Q13813;Q9Y5L0;Q9P1Z2;Q92585;Q9NRA8;P25205;P10144;Q14686;Q15542;P41970;Q9Y2W1;Q8NFT6;Q6UWI2;Q53QV2;Q8TC71;Q9Y535;O95391;Q6P1M3;Q674X7;Q15643;O75170;P50750;Q92733;Q9BVW5;P51948}
- 2496 Pathogen[ P03383] interacts with 102 human  
partners: {Q92681;Q9BQG0;Q7L804;Q92585;Q6RW13;O60671;Q9BVW5;Q9BTC8;Q9Y244;P51948;Q8WUY3;P49789;Q8TAF3;P04156;Q6NZI2;Q13769;Q9UPN9;Q13875;O15111;Q9Y535;Q96AQ6;Q8NFH5;P25205;Q14686;Q6P1M3;Q9UBP6;Q9NWT8;O75886;Q15542;Q9H9L7;Q96BK5;Q92733;Q8NEZ2;Q9NZM5;Q14814;Q86V15;Q13330;Q8TD31;Q9BRS8;A2A288;P41218;Q13895;P56282;Q13137;Q15643;O00291;Q86W56;O14929;Q53QV2;Q15437;Q9BXF6;Q9ULZ2;Q16537;Q9NRR3;Q9H9L3;P57721;P50750;Q8ND56;P51531;Q9UGK3;Q9NQ33;Q86TB9;P82970;Q86YV9;P82979;Q96RE7;Q9BY77;Q9Y6K5;Q8IZD4;Q9BRV8;P54253;O15127;Q96QK1;Q96JE7;Q8TC71;P41970;Q6ULP2;P53992;Q9NRA8;Q99996;Q92785;Q8NFD5;P37198;Q9Y2W1;O60664;Q9Y5L0;O14964;P67809;Q9Y3Y2;P61758;P56279;Q5T1C6;P52594;O75170;Q96EY5;Q8N5D0;O95391;O75154;Q9BTP7;Q9P1Z2;Q7Z5K2;Q6P2E9}
- 2497 Pathogen[ P03410] interacts with 156 human  
partners: {Q96AQ6;Q9Y2W1;Q9NZM5;Q9BT56;Q7L804;Q6NZI2;O75154;P25205;Q13137;Q9UGK3;P10144;P52594;P56279;Q9C0H6;Q8TD31;O14929;P29728;P82970;Q13596;Q99996;Q8TD86;Q8N1V2;P53992;P41218;Q9UBP6;O15111;Q9ULZ2;Q14686;Q9Y3C1;O60749;Q7Z5K2;Q14814;Q9NRR3;Q9UNA4;Q9BVW5;Q8NFT6;Q9BTC8;Q9NRA8;P57721;O14662;Q93050;O00204;Q96QK1;A2A288;Q6P1M3;Q9H668;Q92785;Q9Y287;P82979;P27544;O00291;P56282;Q9BTP7;O60664;P38117;Q8NFD5;Q13895;Q92585;Q9Y535;A5D8V6;Q9UNH7;Q8N987;Q9P1Z2;P50750;P11171;P67809;Q13492;Q8IZD4;Q14966;Q16537;Q8NEZ2;Q9Y5L0;Q53QV2;Q08AM6;P49789;Q6P2E9;Q6UWI2;Q15437;O00264;Q86YV9;Q5T1C6;Q8N357;Q13330;Q9H9L7;Q8NFH5;Q674X7;Q16873;P61758;Q9NWT8;Q6UX65;O15127;Q8WV92;Q15363;Q9BXF6;Q15036;Q8TAF3;Q9H1K0;P04156;Q8TC71;O60671;O75170;Q96JE7;Q8N5D0;Q9Y244;Q13769;Q9BQG0;Q6RW13;Q9NQ33;Q9Y3Y2;Q86W56;Q9UBC3;O94901;P51948;Q13875;P51531;Q6IAA8;Q9Y6K5;Q96S66;Q15643;Q8ND56;Q86TB9;Q9BY77;Q12982;Q6ULP2;Q15542;P41970;O60506;Q96RE7;P56589;Q96EY5;Q96BK5;Q14194;Q15283;P54253;Q12981;P39656;P62166;Q86V15;Q13813;Q9NZ45;P42566;Q9BRV8;Q92681;Q9NQ33;Q9BRS8;Q92733;Q7Z3T8;Q9H9L3;O75886;Q8TBZ0;O95070;Q9UPN9;O95391;P10909;Q8WUY3;Q13316}
- 2498 Pathogen[ P14075] interacts with 108 human  
partners: {Q9NQ33;Q6P2E9;P82979;Q96AQ6;Q92585;Q15643;P54253;Q9BRV8;Q96EY5;O15111;Q96JE7;Q92681;Q8TD31;Q15542;O75886;Q13769;Q8N5D0;Q9Y3Y2;O15127;Q14686;O95391;P41218;Q6P1M3

- ;P04156;Q16537;Q9Y244;P50750;O60671;O75170;Q9BTP7;Q8WUY3;O14929;Q5T1C6;P53992;Q8NEZ2;Q9BVW5;P56279;Q92785;Q13875;Q13137;O00291;Q96BK5;Q8TAF3;Q6NZI2;P57721;Q8IZD4;Q9BQG0;Q99996;O14964;Q9UGK3;Q8TBZ0;Q15437;Q96RE7;Q7L804;P25205;Q7Z5K2;Q9NWT8;Q9UPN9;Q86TB9;P51531;Q9Y535;Q9NZM5;Q86YV9;P37198;Q9Y6K5;P82970;P67809;Q9P1Z2;Q9BRS8;Q9UBP6;P61758;Q9NRR3;P52594;Q8TC71;Q9H9L3;Q9ULZ2;Q9BXP6;Q13330;P49789;Q6ULP2;P38117;Q9Y5L0;Q53QV2;Q8NFD5;Q86W56;O75154;Q9NRA8;P41970;P56282;Q6RW13;Q9Y287;Q9Y2W1;Q9H9L7;Q86V15;Q14814;Q6UWI2;Q92733;Q8NFH5;Q9BTC8;P11171;Q8ND56;O60664;Q9BY77;P51948;A2A288;Q9H668;Q96QK1;Q13895}
- 2499 Pathogen[ P0C206] interacts with 161 human partners: {Q9BT56;O14964;O14662;Q13875;Q12982;Q13887;P10144;P67809;Q86V15;O43933;O15127;Q9Y5L0;Q15437;Q8TAF3;Q8NEZ2;Q86TB9;P06401;Q8N6T3;Q9UBP6;Q8NFH5;Q9UPN9;O00291;Q9NZM5;Q16537;Q8TC71;Q8ND56;P50750;Q8TD86;Q9UNH7;P04156;Q9BXP6;Q9Y287;P39656;P62166;Q92681;Q9BTP7;Q9UNA4;O60664;O75170;Q14966;Q92733;O75154;P25205;Q05066;P51531;P56589;Q8TD31;Q9Y6K5;Q9H1K0;Q9BY77;Q9C0H6;Q9NRR3;Q9H9L3;Q8TBZ0;Q13137;A2A288;Q9BRS8;O95070;Q7Z5K2;P29728;Q9Y3C1;Q8NFT6;Q13895;P38117;Q13316;Q9H9L7;Q13596;Q9H668;P41970;Q9P1Z2;Q96BK5;Q99996;Q13330;P41218;Q15036;O94901;Q9Y535;P57721;Q13769;Q96S66;Q92785;Q9UGK3;Q8IZD4;O60749;Q7Z3T8;P82970;Q86W56;O15516;A5D8V6;Q6ULP2;O60506;Q6RW13;Q9BQG0;Q9BZR9;Q9BVW5;O14929;O00264;Q6P2E9;Q8N357;Q53QV2;Q96JE7;P49789;Q6NZI2;Q96AQ6;Q14686;O00204;O15111;Q9NWT8;Q5T1C6;Q9Y2W1;P10909;Q9NQ33;Q9BRV8;P55072;Q15542;Q8N1V2;Q14194;Q12981;P42566;O60671;Q8IYM9;P56282;P61758;Q8N987;Q14863;Q9ULZ2;Q674X7;Q14814;Q8NFD5;Q6UWI2;Q96QK1;Q9UBC3;Q7L804;P56279;P53992;Q15363;Q8N5D0;O75886;Q86YV9;O95391;Q9NUK0;Q8WV92;Q15643;Q8WUY3;Q9Y244;Q9C029;Q86YT6;Q96RE7;Q9Y3Y2;Q92560;Q6P1M3;Q6Q0C0;Q96EY5;Q92585;Q93050;P11171;Q9NRA8;Q9BTC8;P51948;Q08AM6;P54253}
- 2500 Pathogen[ P03363] interacts with 132 human partners: {Q15020;Q53QV2;Q9Y6K5;Q9UGK3;Q9Y535;Q9NWT8;Q96RE7;O43933;Q9UNH7;O60664;Q9BZR9;Q7L804;Q9NRA8;Q16537;O95391;Q8TAF3;Q5U5Q3;Q8N5D0;Q14194;Q99996;A2A288;O75886;Q96BK5;Q9BTP7;Q8TBZ0;Q14863;O75170;P25205;P41218;P56279;Q8N1V2;Q96QK1;O15111;Q6P2E9;P82970;Q9BQG0;O60671;Q13769;Q9Y3Y2;Q9Y3C1;Q9BRV8;Q86V15;Q9NQ33;Q9UPN9;P04156;Q14686;Q8IZD4;Q8WUY3;P10144;Q13895;O60749;Q92560;Q05066;Q9UBP6;Q9BTC8;Q8TC71;Q6P1M3;Q9ULZ2;Q6ULP2;Q9BY77;Q14814;Q6NZI2;Q9P1Z2;Q9BVW5;O96JY0;Q9H668;Q96AQ6;Q14966;Q8TD86;P11171;Q9H9L3;P57721;Q01167;O00204;Q15542;Q9H9L7;O14929;Q674X7;P54253;P49789;P61758;Q6NZI2;Q9Y5L0;O14964;Q96EY5;O75154;P82979;Q9BRS8;Q9C0H6;Q9UBE0;Q9BXP6;Q13875;Q8WV92;Q92681;Q8ND56;Q86TB9;Q8NEZ2;P50750;O14662;Q92733;O60506;O94901;P53992;Q86W56;Q9NRR3;Q6DN90;Q13596;O15127;Q9Y244;Q9UNA4;Q13330;P41970;Q8NFD5;P52594;P37198;P51531;Q7Z5K2;Q9UBC3;Q13813;Q13137;Q8N987;Q8NFH5;Q15643;Q8TD31;Q12982;O00291;Q9NZM5;Q92585;P67809;Q9NUK0;Q92785;A5D8V6}
- 2501 [Cluster 228]GO:0005882+C cellular\_component [name] intermediate filament [def] "A cytoskeletal structure that forms a distinct elongated structure, characteristically 10 nm in diameter, that occurs in the cytoplasm of eukaryotic cells. Intermediate filaments form a fibrous system, composed of chemically heterogeneous subunits and involved in mechanically integrating the various components of the cytoplasmic space. Intermediate filaments may be divided into five chemically distinct classes
- 2502 Pathogen[ Q2Q067] interacts with 163 human partners: {P19012;A8MTY7;Q3MIV0;Q3LI58;P22392;P35908;P02538;Q9BYQ7;Q9BYQ6;P60331;P02545;Q9BYQ2;Q3LI54;P20700;Q7Z4W3;Q3LHN0;Q9NSB2;Q9BYR5;Q3LI63;P07196;Q9BYQ8;Q3SYF9;P60413;P41219;Q3LI64;Q9BYP9;Q15323;P08779;I6L9F6;P60371;Q6A162;P08729;P78385;Q8IUC1;Q7Z3Z0;P60409;Q9BYR9;O76013;Q3LI68;Q99456;Q3LI67;Q9BYR0;Q8N1N4;Q6L8G5;P60372;P13646;P56537;A8MUX0;Q7RTS7;P59991;Q6L8H1;Q9H307;P14136;Q3LI83;Q9BYQ5;A6NCN2;Q6L8G9;Q9NSB4;Q03252;A8MXZ3;Q14532;Q7Z3Y9;P15924;Q7Z3Y7;Q3LI81;Q3LI73;P60370;Q6L8H4;Q6PEX3;Q9BYQ3;A1A580;P12035;P08727;P60369;Q9NZQ3;Q9C075;Q3LI70;Q9H7C4;O95678;O15061;P04264;Q3LI60;Q8N1A0;Q3LI76;Q86Y46;Q9BYR6;Q3LI62;P05787;Q04695;P35527;P60410;P60014;Q14533;Q8NEH6;Q8IUC0;Q7Z3Y8;Q3LI72;P60368;Q9BYR4;Q8IUC2;Q9BYQ9;P78386;Q14525;Q9BYP8;P59990;P48668;P0C7H8;Q6L8G4;Q3SY84;Q701N2;Q9BYR8;O43790;P60412;O76009;P12036;Q3LI61;Q14CN4;O76014;P13645;P19013;Q9BYQ0;A8MX34;P13647;Q8N9Z9;Q6L8G8;O76015;P0C5Y4;Q6KB66;Q3LI59;Q3LHN2;Q2M2I5;Q3SY46;Q9BYR3;P08670;P60411;Q9BYS1;Q9BYR7;P04259;Q8IUC3;Q9BYU5;P02533;Q01546;Q9BYQ4;P35900;Q3LHN1;P26371;Q16352;Q9BQG6;O76011;P05783;Q7Z794;Q3LI66;Q5XKE5;Q6L8H2;P07197;Q701N4;Q9BYR2;Q8IUB9;Q9BYT5;Q6A163;A8MVA2;Q92764;P17661}
- 2503 Pathogen[ P0C214] interacts with 155 human partners: {Q9H7C4;Q14CN4;Q3LI64;O76011;P08729;Q3LI81;Q14532;Q2M2I5;P60014;P12035;O76013;Q8IUC1;O15061;P60369;P05783;P35527;Q3LHN0;Q86Y46;Q7Z3Y8;P02538;P04264;A8MVA2;Q3SYF9;P13646;P02533;Q7Z3Y7;Q9BYQ5;Q9BYP8;Q6L8H1;O76015;A8MTY7;Q9BYR7;Q9BYR5;P60371;Q3LI54;P60410;Q6L8G4;Q8NEH6;Q7Z794;P15924;Q9BYR8;P60412;Q9BQG6;Q9BYQ2;Q3LI83;O95678;P41219;Q16352;Q9NSB2;Q9BYQ8;Q3SY84;Q3LI66;Q13515;Q3LI70;Q9H307;P05787;P14136;Q9BYQ9;Q3LI76;P20700;P60411;P35908;Q9BYR0;P60331;Q9BYQ3;Q5XKE5;Q3LI60;P08779;P78386;Q701N2;Q8N1A0;P48668;Q14533;Q9BYQ4;Q3LI58;Q03252;Q3LI72;Q04695;Q9BYR3;P60409;Q3LI62;P59990;P78385;Q8N1N4;P08670;Q3LI67;A6NCN2;Q9BYR2;Q6L8G9;P0C5Y4;Q9BYQ0;Q3LI63;P60372;P19012;Q3LHN2;P04259;I6L9F6;Q9C075;P60413;Q8N9Z9;P08727;P59991;Q9BYQ7;Q99456;Q15323;P12036;Q6A162;Q6PEX3;P60370;O76009;Q9NZQ3;P13647;Q7RTS7;Q9BYR4;Q6KB66;P07197;Q7Z3Z0;P22392;P02545;Q6L8G5;Q9BYS1;Q7Z3Y9;Q01546;Q3MIV0;Q8IUB9;P19013;Q9BYQ6;Q8IUC3;A8MXZ3;O43790;Q6L8H4;Q6A163;Q3LI59;P56537;Q3LI68;P26371;Q6L8G8;O76014;Q92764;P07196;Q3LHN1;Q701N4;Q3LI61;Q6L8H2;A1A580;Q8IUC2;Q9NSB4;Q9BYR6;P13645;Q9BYP9;Q3LI73;P35900;Q7Z4W3;P17661;Q14525}
- 2504 Pathogen[ P03346] interacts with 171 human partners: {Q3LI63;P13646;Q6KB66;P15924;Q8N1N4;Q9BYR9;P19012;P08729;Q8IUC2;P02538;Q6L8H1;Q86Y46;Q6L8G8;Q9C075;Q3SY84;Q16352;Q14525;Q3LI62;Q6L8G5;P07196;Q6PEX3;P05783;Q7Z3Y8;P60369;Q9BYU5;P08779;Q3LI64;Q9BYR2;P08727;Q3SYF9;Q15323;Q13515;A8MX34;P35527;Q9BYR0;P20700;Q9BYT5;Q9BYQ8;Q7Z3Z0;Q3LI66;Q5XKE5;Q3LI67;Q9BYQ2;Q52LG2;Q9NSB4;Q9BQG6;A8MXZ3;Q9H307;P05787;O76009;O95678;P19013;P56537;O15061;P14136;P60329;Q13835;P48668;Q14532;Q8

- IUC1;P78386;P60409;O76014;A6NCN2;Q3SY46;P59990;A8MVA2;Q9BYQ6;Q9BYQ3;P0C7H8;P02545;Q0D2I5;P60014;P35908;Q3LI58;Q7Z794;P07197;Q9BYQ0;P60411;Q3LI77;Q3LHN0;Q6L8G9;P12036;Q2M2I5;Q04695;Q9NSB2;Q3LI81;P17661;Q6L8G4;Q7Z3Y9;P02533;Q8N9Z9;Q701N2;Q8IUB9;Q9BYQ5;Q7Z4W3;Q9NZQ3;P60370;A8MUX0;Q3LI73;O43790;P13645;Q3LHN1;Q9BYR4;P60368;P41219;Q9BYQ7;Q14533;Q3LI76;Q9BYR8;P12035;A8MTY7;Q9BYP8;Q8N1A0;Q76011;P22392;Q9BYP9;Q3LI72;Q3LI59;Q3MIV0;P30622;P60328;P59991;P08670;Q03252;Q7RTS7;Q9H7C4;P06015;P60412;P35900;I6L9F6;A1A580;P26371;Q7Z3Y7;P0C5Y4;P13647;P60331;Q9BYR5;Q3LI68;Q8IUC3;Q6A163;P60410;Q6L8H2;Q99456;Q3LHN2;Q6A162;Q3LI70;P04259;P04264;Q9BYR3;Q14CN4;Q9BYS1;Q3LI83;Q3LI60;Q01546;Q9BYR6;Q8TDZ2;Q92764;P60371;Q8IUC0;P78385;Q9BYQ9;Q6L8H4;Q9BYQ4;Q8NEH6;Q701N4;Q3LI54;Q9BYR7;P60372;P60413;O76013}
- 2505 Pathogen[ Q85601] interacts with 126 human partners: {P13646;Q8N1N4;P20700;P08729;P02538;Q14525;P78386;P02545;O76013;P02533;Q3LI76;Q9BYR3;P60369;Q9NSB4;P60368;Q5XKE5;P08779;Q3SY84;P17661;P60331;P07196;Q3LHN0;Q9H307;Q9BYQ6;P08670;P05787;P12036;Q9BYQ8;Q3LI81;Q9BYR8;P19013;Q3LI73;O76009;Q14533;Q7Z3Y8;P30622;Q2M2I5;O95678;P56537;P14136;Q03252;Q9BYR5;Q9BYP9;P04259;P59990;Q9NZQ3;Q7Z3Y9;Q9BYQ3;P60372;Q9BYR2;Q9BYR0;Q6A162;Q7Z3Y7;P60412;P15924;Q7Z794;Q13515;Q14CN4;Q9BYQ0;P60411;Q92764;Q7Z3Z0;Q04695;P60371;P05783;P04264;Q01546;P60370;O43790;P59991;P19012;P48668;Q9C075;P13645;A8MTY7;Q7RTS7;P12035;A8MVA2;P41219;Q15323;P60410;Q9BYQ9;P22392;Q8IUC3;Q9BQ66;Q0D2I5;Q9BYQ7;A1A580;P78385;P08727;P07197;O76011;I6L9F6;Q9BYR7;Q8IUC1;P13647;A6NCN2;Q14532;P35527;Q8N9Z9;Q9BYR4;Q6A163;P35908;Q6PEX3;O76015;P35900;Q9BYQ5;P60014;Q8NEH6;Q16352;Q99456;Q3LI83;Q9BYQ2;Q9BYR6;Q3LI68;Q8N1A0;Q9BYQ4;Q9NSB2;Q86Y46;Q8IUC2;P60413;Q9H7C4;O76014;P60409;Q6KB66;O15061}
- 2506 Pathogen[ P14079] interacts with 170 human partners: {Q14525;Q8IUC0;A8MUX0;Q3LI67;Q3LI70;P48668;P60409;P35900;Q8NEH6;Q3LHN0;Q3SY84;P60014;P60413;P08779;Q9BYR8;P35908;Q7Z794;Q9BYQ4;Q9H7C4;Q9BQ66;P41219;P59990;Q3LI60;Q8TDZ2;Q14532;Q9BYR2;Q3MIV0;Q99456;Q9BYR9;P0C5Y4;Q9BYR6;P0C7H8;Q7Z3Z0;Q701N2;O76011;P56537;Q9BYQ9;P15924;Q9BYQ3;Q9NSB4;Q0D2I5;Q13835;P12036;Q9BYR3;Q6L8H2;Q7RTS7;Q3LI63;Q9BYS1;P13646;Q52LG2;Q8IUC3;A6NCN2;Q9BYQ2;P26371;P08729;P60410;Q6L8H4;Q15323;Q01546;P35527;Q3LI59;Q9BYU5;Q9BYR7;Q04695;Q3SYF9;Q9BYP9;Q9H307;Q8N1A0;Q3LI66;P07196;Q03252;P02533;Q8IUG1;O15061;P60369;P60370;Q3SY46;Q9C075;P14136;Q3LI83;Q3LI61;P78385;P13645;Q7Z3Y9;Q6A162;O75690;Q8N1N4;Q7Z3Y8;A8MTY7;P22392;P20930;Q9NZQ3;P60331;Q2M2I5;P07197;Q8IUC1;P60372;Q92764;Q7Z3Y7;P48681;Q6A163;Q3LI62;P60328;Q86Y46;A8MX34;Q3LI81;O76013;Q6KB66;A8MXZ3;O76015;P78386;Q14533;Q8IUB9;Q9BYQ7;A8MVA2;O76014;P60329;Q5XKE5;Q9BYR4;Q14CN4;P05783;Q6L8G5;Q8IUC2;Q6L8G9;Q3LI72;Q3LI77;P20700;Q3LI64;Q701N4;P60371;Q3LI54;A1A580;Q07627;Q6L8H1;P60411;Q3LHN2;Q6L8G4;Q9BYR5;Q3LI57;Q13515;Q3LHN1;Q9BYQ6;P08670;P04264;Q8N9Z9;O43790;Q9BYR0;O95678;P17661;P04259;P02545;Q3LI73;Q9BYP8;Q6L8G8;Q9BYQ0;Q3LI76;Q7Z4W3;Q3LI68;P08727;Q9NSB2;P12035;Q9BYT5;Q9BYQ8;O76009;P60368;Q9BYQ5;P13647;P30622;P59991;Q3LI58;P60412}
- 2507 Pathogen[ P03383] interacts with 167 human partners: {O95678;P02545;A8MVA2;P15924;Q9BYQ7;P60371;P08729;Q8N1N4;Q86Y46;Q7Z4W3;Q16352;P02533;P19013;P08727;Q9BYR3;Q8IUC1;Q52LG2;Q13515;Q9NSB4;Q9NSB2;Q9BYR2;P26371;P0C7H8;Q9C075;Q3SYF9;Q8N1A0;P60409;P08670;Q14CN4;P60331;P17661;Q3MIV0;A8MX34;Q5XKE5;Q9BYP8;P12036;Q3LI70;Q99456;Q7Z3Z0;Q9BYQ9;P56537;Q3LI60;Q3SY46;Q9BYR4;Q3LHN2;Q6A162;P22392;Q9BYR6;Q2M2I5;A8MUX0;P60368;Q8IUC3;Q6L8G5;P14136;P13645;P59991;O76011;Q7Z3Y8;O76014;Q9BYT5;P05783;O15061;Q3LI76;Q3LI73;A1A580;Q9BYP9;Q9BYR7;Q9BYQ3;Q6L8G9;Q6L8G4;P24525;P78386;P60014;Q14533;P35527;P08779;Q9BQ66;P41219;P05787;Q04695;P20700;P60412;A8MTY7;Q9NZQ3;P60372;P59990;Q8IUC0;P60410;Q01546;Q7Z794;Q9BYR8;Q9BYR5;Q9BYQ8;Q3LI54;P12035;P60370;Q3LHN1;P07197;Q8IUB9;P02538;P60411;P07196;Q3LI63;Q07627;Q9BYQ0;Q9BYQ5;Q3LI72;Q3LI62;Q3SY84;P04264;P48668;Q15323;A8MXZ3;P35908;Q9H307;Q9BYQ4;Q9H7C4;Q3LI81;Q9BYR9;Q3LI61;P13647;Q03252;Q6L8H1;Q3LI66;O76015;P78385;Q3LI64;Q6L8H2;Q3LI67;Q3LI59;O76009;Q9BYR0;Q8IUC2;P13646;P04259;P19012;Q9BYS1;Q6A163;Q7RTS7;Q92764;Q6PEX3;Q8N9Z9;Q6KB66;A6NCN2;P60369;P0C5Y4;Q9BYU5;Q3LI68;Q14532;Q8IUG1;Q3LHN0;Q701N2;Q6L8H4;Q3LI58;Q7Z3Y9;P60413;Q3LI83;I6L9F6;Q701N4;Q9BYQ2;Q6L8G8;Q7Z3Y7;P35900;O43790;O76013;Q8NEH6;Q9BYQ6}
- 2508 Pathogen[ P03410] interacts with 173 human partners: {P78385;P13645;P13646;P60371;Q9BYR7;A1A580;O75690;Q14CN4;P02533;P15924;Q9BYQ5;Q3SYF9;O76011;Q15323;Q3LHN0;Q6A163;Q14525;P12036;P30622;Q9BYQ2;Q8N1N4;Q9BYQ9;P17661;Q701N2;Q9BYQ6;Q9BYQ8;Q9BYU5;Q3LI60;P60328;O15061;Q9BYT5;Q8IUB9;Q8IUC2;P04264;Q3LI54;Q8TDZ2;Q9BYR5;P12035;A8MUX0;Q3LI70;Q7Z3Z0;P60412;Q16352;P35527;Q9BYR0;Q3LI83;P19013;Q701N4;Q14533;A6NCN2;P20700;Q13515;Q3LI62;P60409;P60370;Q9BYQ7;Q8N1A0;O95678;Q92764;P05787;Q3SY84;Q9NZQ3;Q6L8G5;Q9BYR2;O76015;Q7Z794;P48668;Q13835;Q6L8G8;Q6A162;Q3LI72;P02538;Q9NSB4;Q3LI61;Q3LI68;A8MXZ3;P07196;P60014;Q9H7C4;Q9BYR4;Q9BQ66;P41219;P08779;P20930;Q8NEH6;Q3MIV0;P59991;Q8IUC1;Q8N9Z9;P35908;Q6L8G9;Q3LI59;P60368;Q03252;Q3LHN1;Q6L8H2;Q9BYP9;P60369;P60329;Q9BYQ3;P02545;Q14532;Q52LG2;Q3LI73;Q9C075;Q6L8H4;P78386;Q9BYQ4;Q2M2I5;A8MVA2;Q7RTS7;P04259;Q3LI76;Q04695;Q5XKE5;O76013;P08670;Q7Z4W3;P60413;O43790;Q0D2I5;Q9BYR8;Q3SY46;P26371;Q8IUG1;Q99456;Q01546;P35900;Q3LI66;P14136;Q07627;Q7Z3Y8;P0C7H8;Q8IUC0;Q6L8H1;Q9BYP8;Q86Y46;Q6KB66;P59990;Q9NSB2;Q9BYR3;P08729;P60411;Q3LI81;P60410;Q9BYS1;P13647;Q3LI64;Q6L8G4;Q9BYR6;P56537;P60331;A8MX34;I6L9F6;O76014;P08727;A8MTY7;P05783;Q3LHN2;Q9BYR9;P60372;Q3LI67;Q3LI63;Q7Z3Y9;Q9BYQ0;Q3LI77;O76009;P07197;Q9H307;Q3LI58;Q7Z3Y7;Q8IUC3;P0C5Y4}
- 2509 Pathogen[ P14075] interacts with 168 human partners: {Q6L8G5;P60331;Q9H307;Q6L8G4;Q92764;P48668;P59990;O76014;Q7Z3Z0;A8MX34;P08729;P0C7H8;Q9NZQ3;Q16352;Q7Z3Y9;Q7Z3Y7;Q3LI59;Q6L8H2;Q3LI54;P56537;Q9BYQ2;Q6L8G8;Q8IUC3;Q9BYR0;P05783;P08727;Q3SYF9;Q9BYQ7;Q3LI61;Q9C075;Q07627;Q3LI66;P60411;Q3LI81;Q6L8H4;Q3LI76;Q3LI68;Q8IUC1;Q9NSB4;Q9BYU5;Q3LHN1;P20700;Q3LI60;Q9NSB2;Q3LI73;O43790;P17661;P14136;Q13515;Q6L8G9;P0C5Y4;Q6L8H1;P19012;Q9BYQ8;Q9BYP9;Q3LI58;P13645;P12035;A1A580;O15061;A6NCN2;A8MVA2;P78385;Q9BYQ3;Q9BYQ9;Q6PEX3;Q86Y46;Q6A163;Q9BYR9;Q9H7C4;Q9BYR6;P41

219;Q9BYR8;P60368;Q7Z4W3;P60371;Q3LI64;A8MTY7;P12036;Q15323;P02545;Q9BYQ5;Q04695;Q8IUC0;Q9BYR3;P35908;Q9BYQ4;Q7Z3Y8;Q14532;P26371;O76013;P08779;P04264;P13646;Q9BYR5;Q5XKE5;P60370;Q9BQ66;Q9BYT5;Q3SY46;Q701N2;Q3LI72;Q3LI63;P04259;P60410;A8MUX0;Q99456;O76015;P60412;A8MXZ3;Q52LG2;Q3MIV0;Q3LI67;P60328;P08670;P78386;Q9BYQ0;P60369;O76009;P07197;Q7RTS7;P13647;Q8IUG1;Q3LHN2;Q14533;P60409;Q3LI70;I6L9F6;Q9BYR4;P60014;P07196;Q7Z794;O95678;O76011;P35900;Q9BYR7;P60372;Q9BYP8;Q9BYR2;Q14525;P59991;Q14CN4;Q9BYS1;Q8N1N4;Q8IUC2;P02538;P60413;P35527;Q3LI62;Q01546;P02533;Q6A162;Q8N9Z9;Q6KKB66;Q3SY84;P22392;P19013;Q8NEH6;Q701N4;Q03252;Q2M2I5;O75690;Q9BYQ6;P05787;Q8IUB9;P15924;Q3LI83;Q3LHN0}

2510 Pathogen[ P0C206] interacts with 173 human partners: {Q9BQ66;Q9BYR7;Q6L8H2;Q6L8G4;Q3LI73;P05787;Q9NSB2;Q14525;P60368;Q3LI70;Q7Z3Y9;P59991;P17661;P08779;P07196;P35527;Q6A162;P78385;O15061;Q07627;Q3LI77;P02538;P22392;Q8NEH6;Q9BYQ3;Q7Z4W3;Q3SY46;P60371;Q9BYP8;Q9BYP9;P08727;P41219;Q13515;Q9BYQ0;Q3LI54;P60409;P60413;P04264;Q3LHN2;Q2M2I5;P13645;Q3LI83;Q3SYF9;Q9BYR4;Q9H307;P08729;O75690;P60410;Q3LHN0;P19012;A1A580;I6L9F6;Q6KKB66;Q7Z794;Q3LI67;P78386;Q9BYR6;O95678;Q3LI64;Q14533;P30622;Q9BYQ7;Q9BYQ6;Q03252;Q9BYQ2;Q7Z3Z0;Q3LI58;Q3LI81;O76014;Q9C075;Q14532;Q3LI72;O76013;P19013;P12036;Q701N2;Q0D2I5;Q3LI66;A8MX34;P13647;Q6A163;Q13835;Q8N9Z9;Q3LI68;O76011;Q6L8G8;Q8IUC3;Q6L8G9;P60331;P48668;P14136;P60372;P0C5Y4;P60411;P05783;Q8IUC1;Q14CN4;Q01546;P56537;P26371;O76009;Q7Z3Y8;Q701N4;P60014;Q7Z3Y7;Q3LI59;Q9BYR3;P15924;Q9BYR0;Q9H7C4;Q9BYS1;O76015;P02545;Q9BYR5;Q5XKE5;Q6L8G5;Q9BYQ5;Q9BYR9;P59990;Q8IUB9;P20700;Q8IUC0;Q9BYU5;Q3LI60;Q8N1N4;Q9BYQ9;Q3SY84;Q3LI62;Q3LI76;Q6L8H1;Q9NSB4;P08670;Q3LI61;P0C7H8;P04259;Q16352;Q8N1A0;Q7RTS7;A8MVA2;Q52LG2;Q9BYR8;Q15323;P12035;P60412;A8MUX0;Q8TDZ2;Q9BYQ4;P02533;Q3LI63;Q3MIV0;Q86Y46;Q9BYR2;A8MXZ3;P13646;Q3LHN1;Q6L8H4;P35900;Q9BYT5;Q99456;P60369;Q8IUG1;P35908;Q9NZQ3;Q9BYQ8;Q04695;O43790;P60370;Q92764;Q8IUC2;P07197;A8MTY7;Q6PEX3;A6NCN2}

2511 Pathogen[ P03363] interacts with 169 human partners: {P78385;P05783;Q6L8H2;Q3LI72;Q52LG2;P02533;Q9BYR9;Q8N9Z9;P08779;P60370;Q701N2;P02538;A8MUX0;Q13835;P07197;Q14533;Q9BYR6;P13645;Q14525;Q16352;Q3LI81;O15061;P0C5Y4;A8MTY7;P02545;P60411;Q9BYR7;A8MXZ3;Q92764;P60412;Q3LI68;Q3SY46;Q3LI76;Q9BYR3;Q9BYQ6;Q3LI77;Q7RTS7;O76014;P60369;Q86Y46;Q3LI62;Q9BYT5;P60372;P20700;P60368;Q3SY84;P59991;Q3LI83;Q8IUB9;Q3SYF9;Q3LI70;Q99456;Q8IUC3;P59990;P60409;Q8NEH6;Q9H307;A6NCN2;P60328;O76009;Q3LI66;Q6L8G8;O76011;Q3LHN1;Q9BYU5;Q9BYP8;P48668;Q7Z3Y8;Q9BYP9;Q15323;Q6L8H1;P05787;Q7Z3Y9;P15924;P35908;Q3LHN0;Q9H7C4;Q6L8G5;Q9BYQ9;P60331;Q9BYP9;Q3MIV0;Q03252;Q9C075;P35900;Q6A162;P07196;P08727;P30622;Q3LI60;P60014;Q9BYR5;P60329;O43790;Q7Z4W3;Q8IUC1;O76013;A1A580;P13647;Q0D2I5;Q14532;P04259;Q14CN4;Q3LI59;P35527;O95678;I6L9F6;Q6L8G9;Q6A163;P08670;P17661;P56537;Q9BYR8;P14136;Q6PEX3;Q9BYR2;A8MVA2;Q3LI64;Q9NSB2;Q3LI58;Q3LHN2;Q9BYQ2;Q9BYR0;P08729;P41219;Q8IUC0;Q3LI67;Q701N4;P60413;Q3LI54;Q3LI61;Q7Z3Z0;Q7Z3Y7;Q9BYS1;Q9BYQ0;Q9NZQ3;P12035;Q9BYQ3;Q3LI73;P78386;P0C7H8;P19013;Q6L8G4;P13646;O76015;P12036;Q6KKB66;Q01546;Q9BYR4;Q8IUC2;Q6L8H4;P60410;Q8N1N4;P04264;P26371;Q9BYQ4;Q5XKE5;Q7Z794;Q2M2I5;Q9BYQ8;Q9NSB4;Q8N1A0;Q13515;A8MX34;Q04695;P60371;Q3LI63;Q9BYQ5}

2512 [Cluster 229]GO:0032996+C cellular\_component [name] Bcl3-Bcl10 complex [def] "A protein complex containing Bcl3 and Bcl10, which forms when Akt1 is activated by TNF-alpha to phosphorylate Bcl10\_ the Bcl3-Bcl10 complex is translocated to the nucleus." [PMID]

2513 Pathogen[ Q2Q067] interacts with 1 human partners: {P20749}

2514 Pathogen[ P0C214] interacts with 1 human partners: {P20749}

2515 Pathogen[ P03346] interacts with 1 human partners: {P20749}

2516 Pathogen[ Q85601] interacts with 1 human partners: {P20749}

2517 Pathogen[ P14079] interacts with 1 human partners: {P20749}

2518 Pathogen[ P03383] interacts with 1 human partners: {P20749}

2519 Pathogen[ P03410] interacts with 1 human partners: {P20749}

2520 Pathogen[ P14075] interacts with 1 human partners: {P20749}

2521 Pathogen[ P0C206] interacts with 1 human partners: {P20749}

2522 Pathogen[ P03363] interacts with 1 human partners: {P20749}

2523 [Cluster 230]GO:0031515+C cellular\_component [name] tRNA (m1A) methyltransferase complex [def] "A protein complex involved in the catalysis of the formation of the modified nucleotide 1-methyladenosine (m1A) in tRNA. In yeast, it is a heterotetramer of two subunits, Gcd10p and Gcd14p, while in bacteria and archaea it is a homotetramer." [PMID]

2524 Pathogen[ Q2Q067] interacts with 2 human partners: {Q96FX7;Q9BVS5}

2525 Pathogen[ P0C214] interacts with 2 human partners: {Q96FX7;Q9BVS5}

2526 Pathogen[ P03346] interacts with 2 human partners: {Q96FX7;Q9BVS5}

2527 Pathogen[ Q85601] interacts with 2 human partners: {Q9BVS5;Q96FX7}

2528 Pathogen[ P14079] interacts with 2 human partners: {Q9BVS5;Q96FX7}

2529 Pathogen[ P03383] interacts with 2 human partners: {Q9BVS5;Q96FX7}

2530 Pathogen[ P03410] interacts with 2 human partners: {Q96FX7;Q9BVS5}

2531 Pathogen[ P14075] interacts with 2 human partners: {Q9BVS5;Q96FX7}

2532 Pathogen[ P0C206] interacts with 2 human partners: {Q96FX7;Q9BVS5}

2533 Pathogen[ P03363] interacts with 2 human partners: {Q96FX7;Q9BVS5}

2534 [Cluster 231]GO:0005826+C cellular\_component [name] actomyosin contractile ring [def] "A cytoskeletal structure composed of actin filaments and myosin that forms beneath the plasma membrane of many cells, including animal cells and yeast cells, in a plane perpendicular to the axis of the spindle, i.e. the cell division plane. Ring contraction is associated with centripetal growth of the membrane that divides the cytoplasm of the two daughter cells. In animal cells, the contractile ring is located inside the plasma membrane at the location of the cleavage furrow. In budding fungal cells, e.g. mitotic S.

cerevisiae cells, the contractile ring forms beneath the plasma membrane at the mother-bud neck before mitosis." [GOC

2535 Pathogen[ Q2Q067] interacts with 3 human partners: {Q9NQW6;Q9UKX2;P35579}

2536 Pathogen[ P0C214] interacts with 2 human partners: {Q9UKX2;Q7L5Y9}

2537 Pathogen[ P03346] interacts with 3 human partners: {Q9NQW6;P35579;Q9UKX2}

2538 Pathogen[ Q85601] interacts with 4 human partners: {Q9NQW6;P35579;Q7L5Y9;Q9UKX2}

2539 Pathogen[ P14079] interacts with 4 human partners: {Q9NQW6;P35579;Q7L5Y9;Q9UKX2}

2540 Pathogen[ P03383] interacts with 2 human partners: {Q9UKX2;P35579}

2541 Pathogen[ P03410] interacts with 4 human partners: {Q9UKX2;P35579;Q9NQW6;Q7L5Y9}

2542 Pathogen[ P14075] interacts with 3 human partners: {Q9UKX2;Q7L5Y9;P35579}

2543 Pathogen[ P0C206] interacts with 4 human partners: {Q9NQW6;Q7L5Y9;P35579;Q9UKX2}

2544 Pathogen[ P03363] interacts with 3 human partners: {P35579;Q9NQW6;Q9UKX2}

2545 [Cluster 232]GO:0005770+C cellular\_component [name] late endosome [def] "A prelysosomal endocytic organelle differentiated from early endosomes by lower luminal pH and different protein composition. Late endosomes are more spherical than early endosomes and are mostly juxtannuclear, being concentrated near the microtubule organizing center." [PMID

2546 Pathogen[ Q2Q067] interacts with 15 human partners: {Q7Z3C6;Q9P2Y5;O75351;Q63HQ0;Q99816;Q5VYK3;Q9H267;Q9H9C1;Q9H0R1;Q9Y3E7;Q9NUS5;Q96NA2;Q86VN1;P49754;Q13501}

2547 Pathogen[ P0C214] interacts with 17 human partners: {P49754;O75351;Q5VYK3;Q9NUS5;Q96NA2;Q9H0R1;Q13501;Q9BZQ4;Q9P2Y5;Q9Y3E7;Q99816;Q9H9C1;Q96EK6;Q63HQ0;Q9H492;Q86VN1;Q7Z3C6}

2548 Pathogen[ P03346] interacts with 23 human partners: {Q7Z3C6;Q92622;Q9H6Q3;P49754;Q9H0R1;Q96NA2;Q99816;Q86VN1;Q9BXW6;Q9BUN8;Q9Y3E7;Q96AX1;Q5VYK3;Q9H492;Q9NUS5;Q14596;Q9H9C1;O75351;Q70J99;Q9P2Y5;Q63HQ0;Q9H267;Q13501}

2549 Pathogen[ Q85601] interacts with 19 human partners: {Q9H492;Q5VYK3;Q99816;Q63HQ0;Q9P2Y5;Q9NUS5;Q14596;Q86VN1;P49754;Q9H9C1;Q9H267;Q7Z3C6;O75351;Q9H6Q3;Q96EK6;Q96NA2;Q9Y3E7;Q9H0R1;Q13501}

2550 Pathogen[ P14079] interacts with 28 human partners: {Q9BXW6;Q96NA2;Q86VN1;Q9Y2Q5;Q9H9C1;Q9H492;Q63HQ0;Q14596;Q9GZP9;Q7Z3C6;Q5VYK3;Q9H269;Q9BUN8;Q9BZQ4;Q96AX1;Q9H6Q3;Q13501;Q9H0R1;Q9Y3E7;Q96EK6;O75351;P49754;Q9NUS5;Q99816;Q92622;Q9P2Y5;Q6UWI2;Q9H267}

2551 Pathogen[ P03383] interacts with 13 human partners: {Q7Z3C6;Q5VYK3;Q9Y3E7;Q9BUN8;Q9H9C1;Q99816;Q9NUS5;P49754;Q13501;Q9P2Y5;Q63HQ0;Q86VN1;Q96NA2}

2552 Pathogen[ P03410] interacts with 29 human partners: {Q9Y2Q5;Q9H267;Q9P2Y5;Q9NUS5;O75351;Q70J99;Q5VYK3;Q13501;Q96EK6;Q9GZP9;Q86VN1;Q14596;Q99816;Q9Y3E7;Q6UWI2;Q9H492;Q9BUN8;P49754;Q9H0R1;Q63HQ0;Q9H9C1;Q96NA2;Q7Z3C6;Q9H269;Q9BZQ4;Q9BRK5;Q9BXW6;Q96AX1;Q9H6Q3}

2553 Pathogen[ P14075] interacts with 15 human partners: {Q9P2Y5;Q86VN1;Q96NA2;Q9H9C1;Q9Y3E7;P49754;Q63HQ0;Q9BUN8;Q99816;Q96EK6;Q6UWI2;Q9NUS5;Q13501;Q7Z3C6;Q5VYK3}

2554 Pathogen[ P0C206] interacts with 26 human partners: {Q7Z3C6;Q13501;Q63HQ0;Q9P2Y5;Q9H6Q3;Q9Y3E7;Q9H492;Q9H0R1;P49754;Q86VN1;Q99816;Q14596;Q92622;Q9BUN8;Q9GZP9;Q9BZQ4;Q96AX1;Q96EK6;Q5VYK3;Q9BXW6;Q96NA2;Q6UWI2;O75351;Q9H9C1;Q9H267;Q9NUS5}

2555 Pathogen[ P03363] interacts with 18 human partners: {P49754;Q9P2Y5;Q9H9C1;Q63HQ0;Q9H492;Q9H6Q3;Q9NUS5;O75351;Q92622;Q9H0R1;Q86VN1;Q9BXW6;Q9H267;Q7Z3C6;Q9Y3E7;Q96NA2;Q99816;Q5VYK3}

2556 [Cluster 233]GO:0031429+C cellular\_component [name] box H/ACA snoRNP complex [def] "A box H/ACA RNP complex that is located in the nucleolus." [GOC

2557 Pathogen[ Q2Q067] interacts with 1 human partners: {Q9NY12}

2558 Pathogen[ P0C214] interacts with 1 human partners: {Q9NY12}

2559 Pathogen[ P03346] interacts with 1 human partners: {Q9NY12}

2560 Pathogen[ Q85601] interacts with 1 human partners: {Q9NY12}

2561 Pathogen[ P14079] interacts with 1 human partners: {Q9NY12}

2562 Pathogen[ P03383] interacts with 1 human partners: {Q9NY12}

2563 Pathogen[ P03410] interacts with 1 human partners: {Q9NY12}

2564 Pathogen[ P14075] interacts with 1 human partners: {Q9NY12}

2565 Pathogen[ P0C206] interacts with 1 human partners: {Q9NY12}

2566 Pathogen[ P03363] interacts with 1 human partners: {Q9NY12}

2567 [Cluster 234]GO:0000262+C cellular\_component [name] mitochondrial chromosome [def] "A chromosome found in the mitochondrion of a eukaryotic cell." [GOC

2568 Pathogen[ Q2Q067] interacts with 1 human partners: {Q9UHN1}

2569 Pathogen[ P0C214] interacts with 1 human partners: {Q9UHN1}

2570 Pathogen[ P03346] interacts with 1 human partners: {Q9UHN1}

2571 Pathogen[ Q85601] interacts with 1 human partners: {Q9UHN1}

2572 Pathogen[ P14079] interacts with 1 human partners: {Q9UHN1}

2573 Pathogen[ P03383] interacts with 1 human partners: {Q9UHN1}

2574 Pathogen[ P03410] interacts with 1 human partners: {Q9UHN1}

2575 Pathogen[ P14075] interacts with 1 human partners: {Q9UHN1}

2576 Pathogen[ P0C206] interacts with 1 human partners: {Q9UHN1}

2577 Pathogen[ P03363] interacts with 1 human partners: {Q9UHN1}

2578 [Cluster 235]GO:0042788+C cellular\_component [name] polysomal ribosome [def] "A

ribosome bound to mRNA that forms part of a polysome." [GOC

2579 Pathogen[ Q2Q067] interacts with 4 human partners: {Q06787;P62424;Q8NE71;Q7Z417}

2580 Pathogen[ P0C214] interacts with 4 human partners: {Q06787;Q7Z417;Q8NE71;P62424}

2581 Pathogen[ P03346] interacts with 5 human partners: {Q06787;P62424;P51843;Q7Z417;Q8NE71}

2582 Pathogen[ Q85601] interacts with 4 human partners: {Q06787;P62424;Q8NE71;Q7Z417}

2583 Pathogen[ P14079] interacts with 4 human partners: {Q7Z417;P62424;Q8NE71;Q06787}

2584 Pathogen[ P03383] interacts with 4 human partners: {Q7Z417;Q8NE71;P62424;Q06787}

2585 Pathogen[ P03410] interacts with 4 human partners: {Q8NE71;P62424;Q06787;Q7Z417}

2586 Pathogen[ P14075] interacts with 4 human partners: {Q7Z417;Q8NE71;Q06787;P62424}

2587 Pathogen[ P0C206] interacts with 4 human partners: {Q06787;Q7Z417;Q8NE71;P62424}

2588 Pathogen[ P03363] interacts with 4 human partners: {Q06787;Q8NE71;P62424;Q7Z417}

2589 [Cluster 236]GO:0005768+C cellular\_component [name] endosome [def] "A membrane-bounded organelle to which materials ingested by endocytosis are delivered." [ISBN

2590 Pathogen[ Q2Q067] interacts with 91 human partners: {Q92783;Q7Z3C6;Q9P2Y5;Q9UL45;P46108;Q9UH99;O75351;Q7LBR1;O15126;Q63HQ0;O60664;O60296;Q9H444;Q56VL3;Q99816;Q13829;Q9H1H9;Q8WV92;Q9NZD8;Q5VYK3;Q9UJY4;Q9BRG1;Q9NX40;P36543;Q9UJY5;Q96EY5;Q8N1B4;Q96EV8;Q9UBQ0;Q7L804;Q7Z614;Q8NEU8;Q9H267;P61077;O75886;Q6ICB4;O15127;Q96L92;Q9H9C1;Q9HCC9;Q5VIR6;A5D8V6;Q92562;Q13114;O75843;Q9HD42;Q9UIL1;Q9UQN3;Q9UN37;Q96H20;Q9H0R1;Q9H7P6;Q9Y2J4;Q9NZZ3;Q9Y4E1;O60291;Q9UK41;Q9H4A6;Q8TAC9;Q9Y3E7;O75436;Q96QK1;Q9H9H4;Q96CF2;Q9UPV9;Q9Y3C5;O60759;Q9H0A6;Q9NR09;Q9NP79;O75791;O75382;O75154;O43633;O14964;Q9NUS5;P24941;Q96NA2;Q9UKG1;Q86YV9;Q9BVN2;P14672;P46527;Q9BXF6;Q86VN1;O75674;Q13501;Q8NEZ2;Q9NZ52;Q15276;O75901}

2591 Pathogen[ P0C214] interacts with 94 human partners: {Q6ICB4;Q9H0A6;Q9H4A6;Q96CF2;O75351;Q9UPV9;Q9Y2J4;P62993;Q9UJY5;O60759;Q13829;Q9Y4E1;Q96QK1;Q8TAC9;Q9NP79;Q9H444;Q9HD42;Q5VYK3;P46527;Q9NUS5;Q96NA2;Q641Q2;O14964;O75886;Q86YV9;O15127;Q9Y3C5;P36543;O60296;Q9UQN3;Q7Z614;Q9UK41;Q9H0R1;Q9UKG1;Q92562;O75843;P61077;Q9UH99;Q7L804;Q13501;Q9BY43;Q9H7P6;Q7LBR1;P11168;Q96EY5;Q08AM6;Q9UJY4;Q9NZD8;Q9HCC9;O15126;Q9BRG1;O75901;Q96L92;Q56VL3;Q8NEU8;Q9UL45;P24941;Q9UIL1;Q9NZ52;Q8NEZ2;Q9BXF6;Q96EV8;Q8N1B4;Q9P2Y5;Q9Y3E7;Q99816;Q9NV92;O75436;O60291;Q5VIR6;Q13114;Q9BVN2;Q9UBQ0;Q9NZZ3;Q5SNT6;Q9NR09;O60664;Q96H20;A5D8V6;Q9UN37;Q9H9C1;Q9UN37;Q9H9C1;Q92783;O43633;O75674;Q9H9H4;P46108;Q63HQ0;P14672;Q86VN1;O75154;Q7Z3C6;Q9NX40}

2592 Pathogen[ P03346] interacts with 130 human partners: {Q13596;Q56VL3;O75382;O60664;Q86YV9;Q5VIR6;Q86XT2;Q96QK1;O95405;Q7Z3C6;Q96A65;Q15036;A5D8V6;Q9P253;Q92622;O75901;Q9UIL1;Q9Y3C5;Q9HD42;Q9H4A6;P24941;Q9UH99;Q9Y6D5;O60759;O75886;Q8NEZ2;Q9H3S7;Q96T51;Q9H0R1;Q96NA2;Q9NX40;P36543;Q99816;Q9NZD8;Q9H1H9;Q86VN1;O60296;O95630;P62993;Q7Z614;Q9UK41;Q9UBQ0;Q92562;Q13114;Q9NV92;Q6P3W7;Q13829;Q4V328;Q96AX9;A8K0Z3;P61077;Q96H20;Q96FZ7;Q93045;Q9H0A6;Q96CF2;Q9NZZ3;Q9BXW6;Q14694;O75843;Q7Z3T8;Q9Y3E7;Q7L804;O60493;Q8NEU8;Q8N4B1;Q8TAC9;Q96L92;Q9UNH7;Q96EV8;O43633;Q9UPV9;Q9H444;Q96AX1;Q8WV92;Q9H9H4;P42566;Q9UJY4;Q8N1B4;Q9Y5X2;Q5VYK3;Q5JSH3;Q9NUS5;Q9BRG1;O15126;Q9Y2J4;Q9UL45;P46108;P30622;Q9UQN3;O75436;O60291;Q9UJ41;Q9Y5H1;Q96S99;Q9BY43;Q92783;O95219;Q9NP79;Q9UKG1;Q9H9C1;Q9NR09;O75351;Q9BXF6;O14964;Q86YS3;Q9BVN2;O60749;Q7LBR1;Q70J99;Q9UJY5;O75154;O75674;Q9P2Y5;Q6ICB4;Q63HQ0;P46527;P14672;Q96EY5;Q9NZ52;Q9H7P6;Q9H267;Q9HCC9;Q9UN37;Q86Y82;Q15276;Q13501;Q9UBP0;O15127;O75791}

2593 Pathogen[ Q85601] interacts with 105 human partners: {Q13596;Q96QK1;Q5VYK3;Q99816;O60664;Q63HQ0;O15126;O75843;Q96S99;P11168;Q9NP79;Q08AM6;P62993;Q9UQN3;O75154;Q96A65;Q9H7P6;Q7L804;Q9UJY4;Q96H20;Q5JSH3;Q9P253;Q8TAC9;Q9P2Y5;Q9UBP0;Q9Y3C5;Q8WV92;Q86YS3;Q15036;Q8NEU8;Q9NUS5;Q9BRG1;Q9H0A6;P30622;O60759;Q96T51;Q9BVN2;Q9H9H4;Q86VN1;Q9H1H9;P46108;O43633;Q7Z614;Q5VIR6;Q7LBR1;Q92562;Q9UPV9;Q9UJ41;Q13114;O75886;Q9UJY5;P61077;Q96FZ7;Q9H9C1;Q86YV9;Q9H267;Q7Z3C6;Q96CF2;Q96L92;O60291;O60296;Q9UH99;O75351;Q9UK41;Q9BY43;Q9BXF6;Q96EV8;Q9HCC9;Q9H444;Q6ICB4;Q8N1B4;Q92783;Q9NZZ3;Q9Y2J4;O14964;O95630;Q96EK6;Q9H4A6;O75382;O75436;O75901;Q9UKG1;Q9UBQ0;O15127;Q9NR09;Q9NX40;Q96NA2;Q13829;Q8NEZ2;Q9NZ52;Q9UIL1;P14672;Q96EY5;Q9UNH7;Q9UN37;P24941;Q9Y3E7;Q9HD42;Q9H0R1;Q13501;P46527;O75674;O75791;P36543;A5D8V6}

2594 Pathogen[ P14079] interacts with 143 human partners: {P36543;Q9BXW6;Q96QK1;Q9H9H4;O75886;Q86YV9;Q7L804;Q96NA2;Q9H295;Q86VN1;Q9UNH7;Q92562;Q96CF2;Q96EY5;Q15036;Q9Y4E1;Q9UKG1;Q9H0A6;Q8NEV8;Q9UJY4;Q96H20;Q9Y2Q5;Q8NEU8;Q9BVN2;O60664;Q9H9C1;Q9UJY5;O60493;Q6BDI9;Q86XT2;Q9H1K0;Q9BY43;Q63HQ0;P27352;P14672;Q9Y6D5;Q9NP79;Q15276;Q9H7P6;P42566;Q6VEQ5;Q92783;Q92M389;O95405;Q7LBR1;Q9HD42;O75674;Q9UIL1;Q86YS3;Q9HCC9;Q9UHA4;Q9Y2J4;Q9UJ41;O60759;Q96S99;Q96L92;Q7Z3C6;Q9H3E2;Q5VYK3;Q96NT0;P61077;Q9H5N1;Q9H269;Q9NZ52;O00461;Q9NR09;O75843;Q93045;O75791;Q9Y287;Q9NX40;Q9Y5X2;Q9BXF6;Q96T51;Q8TAC9;Q9UL45;Q9NQA3;O43633;Q86T03;Q15075;Q641Q2;Q5JSH3;Q6IAA8;Q8N4B1;Q96AX1;Q8N8Q9;Q9H1H9;A5D8V6;O60749;Q8N8Y2;Q9P253;Q8NEZ2;Q5VIR6;Q8WU20;Q13596;Q13501;Q8N1B4;Q9UN37;Q7Z614;O60831;Q96FZ7;O60296;Q9PNUM4;Q96A65;Q7Z3T8;Q6ICB4;Q9H0R1;P62993;A8K0Z3;Q9UBQ0;Q4V328;Q9Y3E7;P46527;Q96AW1;Q8WV92;O75154;Q9Y3C5;Q96EV8;Q96EK6;O75351;Q9NV92;Q13829;Q9NUS5;Q9NZZ3;O75436;Q9H444;Q9BRG1;Q9UH99;Q7RTP0;Q99816;Q9H4A6;Q92622;Q9P2Y5;Q56VL3;O75382;O75901;Q6UWI2;P46108;Q5SNT6;Q9H267;Q13114;Q9UQN3;P30622}

2595 Pathogen[ P03383] interacts with 76 human partners: {Q56VL3;Q9UJY4;Q7L804;O15126;Q7Z3C6;O75791;Q9NZD8;Q8N1B4;Q96H20;Q8TAC9;Q9H7P6;Q5VYK3;Q9Y3E7;Q8NEU8;Q9NZZ3;Q9UH99;Q9H9C1;O75886;Q8NEZ2;Q99816;Q7Z614;Q9Y4E1;Q9NUS5;Q96EV8;Q9UIL1;Q4V328;P61077;Q9H1H9;P11168;O75901;Q96L92;O60296;Q9Y2J4;Q9UK41;Q7LBR1;O75843;O43633;P46527;P24941;Q9UJY5;Q9BXF6;Q9H444;Q9UPV9;Q9H9H4;Q9NX40;Q86YV9;Q9BRG1;Q9H4A6;Q9HD42;Q13501;Q92783;O75436;Q9P2Y5;O15127;Q96QK1;Q9NR09;O60831;P36543;Q13829;Q9UBQ0;P14672;O60664;O14964;Q63HQ0;Q86VN1;Q9UN37;Q13114;Q96EY5;O75154;Q9UQN3;Q96NA2;Q15276;Q5VIR6;Q9BVN2;Q9HCC9;Q9NZ52}

2596 Pathogen[ P03410] interacts with 148 human



partners: {Q9BVN2; Q5SNT6; Q92562; Q9Y2Q5; Q5JSH3; Q7L804; O75154; P46527; Q13829; Q9H267; O95405; O43633; Q7Z614; P30622; Q96L92; Q8N8Y2; Q9P2Y5; Q9UJ41; Q96S99; Q8TAC9; Q9H7P6; Q86XT2; Q86T03; Q9H9H4; Q13596; Q9Y2J4; Q56VL3; Q9NZ52; Q8N4B1; Q9NP79; Q9NUS5; O75351; Q9H1H9; O75674; O75382; Q70J99; Q9H3E2; O75843; Q9UH99; O60749; Q96AW1; Q8N1B4; P11168; Q5VYK3; Q2M389; Q13501; Q92783; Q9BY43; Q96QK1; Q9Y287; Q96EK6; Q86VN1; Q9P253; O60664; Q9H4A6; Q9NV92; O00461; Q9UHA4; Q9UJY5; Q9HCC9; Q9UL45; O60759; O95219; A5D8V6; Q9UBQ0; Q9UNH7; Q99816; Q9NR09; Q86YS3; Q9Y3E7; Q8NEZ2; Q9UQN3; Q08AM6; Q6UWI2; Q8NEV8; Q9UJL1; Q9UPV9; Q86YV9; Q9Y3C5; P24941; Q9HD42; Q9UN37; Q96A65; Q641Q2; O15127; Q15049; Q8WV92; Q9BXF6; Q15036; Q9H444; Q9NZZ3; Q9Y4E1; Q9H1K0; O75436; Q9Y6D5; Q9BRG1; Q6VEQ5; Q96FZ7; Q9H0R1; O60296; Q6ICB4; Q96T51; Q6IAA8; P46108; Q63HQ0; O75901; Q8N8Q9; Q8NEU8; Q9H9C1; O60291; Q7RTP0; Q96EY5; Q8WU20; Q5VIR6; Q9NX40; Q9H5N1; Q96NA2; Q4V328; O60831; Q7Z3C6; Q96H20; O15126; Q96CF2; P27352; P62993; Q9H269; P42566; Q7LBR1; Q9NQA3; Q9H0A6; Q6BDI9; Q96EV8; Q9UKG1; Q93045; P36543; Q7Z3T8; O75886; Q9UJY4; O60493; Q9BXW6; A8K0Z3; Q13114; P61077; Q15276; O75791; Q9Y5X2; Q5MNZ9; Q96AX1}

2597 Pathogen[ P14075] interacts with 82 human partners: {Q9P2Y5; Q56VL3; Q9UJY4; Q96EY5; Q9H1H9; P24941; Q8N1B4; O75886; O75791; O15127; Q7LBR1; Q9H444; Q9BVN2; Q92783; Q9NP79; Q9NZ52; Q9UBQ0; Q86VN1; Q96NA2; O60296; Q7Z614; Q9UK41; Q9H9C1; Q8NEU8; O15126; Q9NZD8; Q4V328; O75901; P61077; Q8NEZ2; Q96H20; Q9UPV9; P46527; Q9Y3E7; O00461; Q9H9H4; O60831; Q9Y2J4; Q9HCC9; O14964; Q7L804; Q9UQN3; Q63HQ0; Q86YV9; Q9NZZ3; Q13114; Q9UJL1; Q9NX40; Q5VIR6; O75436; Q96EV8; Q9NV92; Q9BXF6; Q9H7P6; Q9UH99; Q9NR09; O75843; Q8TAC9; Q9HD42; Q9BRG1; P11168; O75154; Q99816; Q13829; Q9Y287; Q96EK6; P14672; Q641Q2; Q9H4A6; Q6UWI2; Q9Y4E1; Q9NUS5; Q9UJY5; Q13501; Q7Z3C6; O60664; Q9UN37; Q96L92; Q15276; Q5VYK3; Q96QK1; P36543}

2598 Pathogen[ P0C206] interacts with 142 human partners: {Q7Z3C6; O14964; Q9BRG1; Q96AX9; Q96L92; Q13501; Q13829; Q63HQ0; O60291; O15127; Q9UKG1; Q9UN37; Q9H4A6; P36543; Q8NEZ2; Q9P2Y5; Q9H444; Q9UHA4; Q7LBR1; Q9UL45; Q9UBP0; Q13114; Q641Q2; Q9Y3E7; Q9UNH7; Q9HCC9; Q9BXF6; Q9Y287; O60759; Q8NEU8; Q92562; O60664; O75154; Q9NV92; O75382; Q9UH99; Q9H0R1; Q9H1K0; Q9UJL1; Q9NX40; Q8IWB7; O95630; Q9UQN3; Q96T51; Q86VN1; O60493; Q6ICB4; Q2M389; Q9UJY4; O60831; Q13596; Q99816; Q92783; Q9Y4E1; Q9H1H9; P30622; Q96A65; Q15036; Q9UPV9; Q6P3W7; O75791; P62993; Q9UK41; Q9H9H4; Q56VL3; Q9UBQ0; P11168; Q9H7P6; Q92622; O60749; Q7Z3T8; Q6VEQ5; A5D8V6; Q9H0A6; Q93045; Q9NR09; Q5VIR6; Q8WU20; Q96H20; Q9NZ52; Q9Y6D5; Q9H3E2; Q96EV8; Q9UJY5; Q86XT2; O00461; O60296; O95405; Q9Y2J4; P46527; O43633; Q96AX1; Q96S99; Q5SNT6; Q96EK6; Q7Z614; Q96CF2; Q9UJ41; Q9H5N1; Q5VYK3; Q9BY43; P42566; O75436; Q8N4B1; Q9BXW6; P14672; Q9P253; Q4V328; O75843; Q9HD42; Q96NA2; Q6UWI2; P61077; P46108; Q9NP79; Q96QK1; Q5JSH3; Q9NZZ3; Q7L804; Q96FZ7; O75886; Q8N1B4; Q86YV9; O75351; Q8TAC9; O15126; Q8WV92; Q86YS3; Q9BW19; Q86T03; O75674; P24941; Q6BDI9; Q9H9C1; O75901; Q9H267; Q9Y3C5; Q15276; Q96EY5; Q9NUS5; Q08AM6; Q9BVN2}

2599 Pathogen[ P03363] interacts with 98 human partners: {Q9HCC9; Q9UPV9; Q9UNH7; O60664; Q9H3S7; Q7L804; Q9P2Y5; Q9H9C1; Q6ICB4; P36543; O60291; Q9UJY4; Q9Y3C5; O75886; Q63HQ0; Q96L92; Q8N1B4; Q9H444; O95219; Q92783; Q96QK1; Q96A65; Q9NZ52; O75436; Q9NUS5; Q9NZZ3; P24941; Q9H4A6; O75791; Q8N4B1; Q96H20; O60493; Q96T51; Q93045; O60296; O60749; Q9UJ41; O75351; Q9Y2J4; Q8NEU8; O95405; Q9Y4E1; P30622; Q9UN37; Q92622; Q9H0R1; Q9NR09; Q86VN1; Q9BXW6; Q9BRG1; Q9H267; O75901; Q7Z3C6; Q9UK41; O75674; Q9Y3E7; Q7LBR1; P46108; O14964; Q96EY5; O75154; Q7Z614; O75382; Q9BXF6; Q9UBQ0; Q13829; Q5VIR6; Q8WV92; Q9BVN2; O15126; Q9H0A6; Q8NEZ2; Q13114; Q9UJL1; P14672; Q96NA2; O75843; Q99816; Q13596; O60759; O15127; P61077; Q9UQN3; Q9NZD8; Q9H7P6; Q9H1H9; Q9NP79; Q9H9H4; Q9UJY5; Q9UKG1; Q15276; Q5VYK3; Q9NX40; Q9HD42; Q96AX9; Q9UH99; Q96CF2; A5D8V6}

2600 [Cluster 237]GO:0016342+C cellular\_component [name] catenin complex [def] "Complex of peripheral cytoplasmic proteins (alpha-, beta- and gamma-catenin) that interact with the cytoplasmic region of uvomorulin/E-cadherin to connect it to the actin cytoskeleton." [ISBN

2601 Pathogen[ Q2Q067] interacts with 2 human partners: {O15105; O95996}

2602 Pathogen[ P0C214] interacts with 1 human partners: {O15105}

2603 Pathogen[ P03346] interacts with 2 human partners: {O15105; O95996}

2604 Pathogen[ Q85601] interacts with 2 human partners: {O95996; O15105}

2605 Pathogen[ P14079] interacts with 2 human partners: {O95996; O15105}

2606 Pathogen[ P03383] interacts with 1 human partners: {O15105}

2607 Pathogen[ P03410] interacts with 2 human partners: {O95996; O15105}

2608 Pathogen[ P14075] interacts with 1 human partners: {O15105}

2609 Pathogen[ P0C206] interacts with 2 human partners: {O95996; O15105}

2610 Pathogen[ P03363] interacts with 2 human partners: {O95996; O15105}

2611 [Cluster 238]GO:0005657+C cellular\_component [name] replication fork [def] "The Y-shaped region of a replicating DNA molecule, resulting from the separation of the DNA strands and in which the synthesis of new strands takes place. Also includes associated protein complexes." [GOC

2612 Pathogen[ Q2Q067] interacts with 9 human partners: {Q12888; Q9NPF5; P41182; Q96T88; O14757; P63146; P26358; O60934; Q92769}

2613 Pathogen[ P0C214] interacts with 8 human partners: {Q96T88; P26358; Q92769; P41182; Q12888; O14757; P63146; Q9NPF5}

2614 Pathogen[ P03346] interacts with 10 human partners: {Q12888; Q9NS91; O14757; P26358; P63146; Q92769; P41182; O60934; Q96T88; Q9NPF5}

2615 Pathogen[ Q85601] interacts with 10 human partners: {P63146; P26358; Q12888; O14757; Q92769; Q96T88; P41182; Q9NS91; Q9NPF5; O60934}

2616 Pathogen[ P14079] interacts with 7 human partners: {O60934; P41182; Q9NPF5; Q92769; P26358; Q12888; P63146}

2617 Pathogen[ P03383] interacts with 6 human partners: {Q12888; O14757; Q9NPF5; Q92769; P63146; P26358}

2618 Pathogen[ P03410] interacts with 8 human partners: {Q9NPF5; P26358; Q92769; P63146; O14757; P41182; Q12888; O60934}

2619 Pathogen[ P14075] interacts with 6 human partners:{P26358;Q9NPF5;Q92769;Q12888;P63146;O14757}

2620 Pathogen[ P0C206] interacts with 9 human partners:{Q92769;Q9NPF5;P41182;O60934;P26358;Q9NS91;Q12888;Q96T88;P63146}

2621 Pathogen[ P03363] interacts with 7 human partners:{Q9NPF5;P63146;P26358;Q96T88;Q9NS91;Q12888;O14757}

2622 [Cluster 239]GO:0044445+C cellular\_component [name] cytosolic part [def] "Any constituent part of cytosol, that part of the cytoplasm that does not contain membranous or particulate subcellular components." [GOC]

2623 Pathogen[ Q2Q067] interacts with 2 human partners:{Q96B36;O00170}

2624 Pathogen[ P0C214] interacts with 2 human partners:{O00170;Q96B36}

2625 Pathogen[ P03346] interacts with 4 human partners:{O14908;O00170;Q96B36;O94972}

2626 Pathogen[ Q85601] interacts with 2 human partners:{Q96B36;O00170}

2627 Pathogen[ P14079] interacts with 3 human partners:{O00170;Q96B36;O14908}

2628 Pathogen[ P03383] interacts with 2 human partners:{O00170;Q96B36}

2629 Pathogen[ P03410] interacts with 3 human partners:{O14908;Q96B36;O00170}

2630 Pathogen[ P14075] interacts with 2 human partners:{Q96B36;O00170}

2631 Pathogen[ P0C206] interacts with 3 human partners:{Q96B36;O14908;O00170}

2632 Pathogen[ P03363] interacts with 4 human partners:{O94972;Q96B36;O14908;O00170}

2633 [Cluster 240]GO:0005795+C cellular\_component [name] Golgi stack [def] "The set of thin, flattened membrane-bounded compartments, called cisternae, that form the central portion of the Golgi complex. The stack usually comprises cis, medial, and trans cisternae\_ the cis- and trans-Golgi networks are not considered part of the stack." [GOC]

2634 Pathogen[ Q2Q067] interacts with 4 human partners:{Q05084;Q14746;Q9Y296;O75674}

2635 Pathogen[ P0C214] interacts with 4 human partners:{Q14746;Q9Y296;Q05084;O75674}

2636 Pathogen[ P03346] interacts with 8 human partners:{Q14746;Q14789;Q6XZF7;Q05084;Q9Y296;Q9HC24;O75674;Q9HBF4}

2637 Pathogen[ Q85601] interacts with 5 human partners:{Q14746;Q9HBF4;Q9Y296;Q05084;O75674}

2638 Pathogen[ P14079] interacts with 8 human partners:{Q9Y296;Q14789;Q14746;Q6XZF7;Q05084;Q9HC24;O75674;Q9HBF4}

2639 Pathogen[ P03383] interacts with 3 human partners:{Q14746;Q9Y296;Q05084}

2640 Pathogen[ P03410] interacts with 8 human partners:{Q9HC24;O75674;Q05084;Q14789;Q6XZF7;Q14746;Q9HBF4;Q9Y296}

2641 Pathogen[ P14075] interacts with 4 human partners:{Q14746;Q14789;Q05084;Q9Y296}

2642 Pathogen[ P0C206] interacts with 9 human partners:{Q14789;Q9Y296;Q14746;Q9HC24;Q6XZF7;O75674;Q9HBF4;Q05084;Q99986}

2643 Pathogen[ P03363] interacts with 6 human partners:{Q14789;Q14746;Q6XZF7;O75674;Q05084;Q9Y296}

2644 [Cluster 241]GO:0000800+C cellular\_component [name] lateral element [def] "A proteinaceous core found between sister chromatids during meiotic prophase." [GOC]

2645 Pathogen[ Q2Q067] interacts with 2 human partners:{Q06609;Q9BX26}

2646 Pathogen[ P0C214] interacts with 2 human partners:{Q06609;Q9BX26}

2647 Pathogen[ P03346] interacts with 2 human partners:{Q06609;Q9BX26}

2648 Pathogen[ Q85601] interacts with 2 human partners:{Q9BX26;Q06609}

2649 Pathogen[ P14079] interacts with 3 human partners:{Q9BX26;Q9UQE7;Q06609}

2650 Pathogen[ P03383] interacts with 2 human partners:{Q06609;Q9BX26}

2651 Pathogen[ P03410] interacts with 3 human partners:{Q9UQE7;Q9BX26;Q06609}

2652 Pathogen[ P14075] interacts with 2 human partners:{Q9BX26;Q06609}

2653 Pathogen[ P0C206] interacts with 3 human partners:{Q9BX26;Q9UQE7;Q06609}

2654 Pathogen[ P03363] interacts with 2 human partners:{Q06609;Q9BX26}

2655 [Cluster 242]GO:0005688+C cellular\_component [name] U6 snRNP [def] "A ribonucleoprotein complex that contains small nuclear RNA U6." [GOC]

2656 Pathogen[ Q2Q067] interacts with 2 human partners:{Q13838;Q9Y4Z0}

2657 Pathogen[ P0C214] interacts with 2 human partners:{Q9Y4Z0;Q13838}

2658 Pathogen[ P03346] interacts with 2 human partners:{Q9Y4Z0;Q13838}

2659 Pathogen[ Q85601] interacts with 2 human partners:{Q9Y4Z0;Q13838}

2660 Pathogen[ P14079] interacts with 2 human partners:{Q13838;Q9Y4Z0}

2661 Pathogen[ P03383] interacts with 2 human partners:{Q13838;Q9Y4Z0}

2662 Pathogen[ P03410] interacts with 2 human partners:{Q13838;Q9Y4Z0}

2663 Pathogen[ P14075] interacts with 2 human partners:{Q9Y4Z0;Q13838}

2664 Pathogen[ P0C206] interacts with 2 human partners:{Q9Y4Z0;Q13838}

2665 Pathogen[ P03363] interacts with 2 human partners:{Q9Y4Z0;Q13838}

2666 [Cluster 243]GO:0008275+C cellular\_component [name] gamma-tubulin small complex [def] "A complex usually comprising two gamma-tubulin molecules and two conserved non-tubulin proteins. Some gamma-tubulin small complexes are thought to be the repeating unit making up the core of the gamma-tubulin ring complex." [PMID]

2667 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9HC77}

2668 Pathogen[ P0C214] interacts with 1 human partners:{Q9HC77}

2669 Pathogen[ P03346] interacts with 1 human partners:{Q9HC77}

2670 Pathogen[ Q85601] interacts with 1 human partners:{Q9HC77}

2671 Pathogen[ P14079] interacts with 1 human partners:{Q9HC77}

2672 Pathogen[ P03383] interacts with 1 human partners:{Q9HC77}

2673 Pathogen[ P03410] interacts with 1 human partners:{Q9HC77}

2674 Pathogen[ P14075] interacts with 1 human partners:{Q9HC77}

2675 Pathogen[ P0C206] interacts with 1 human partners:{Q9HC77}

2676 Pathogen[ P03363] interacts with 1 human partners:{Q9HC77}

2677 [Cluster 244]GO:0045120+ cellular\_component [name] pronucleus [def] "The nucleus of either the ovum or the spermatozoon following fertilization. Thus, in the fertilized ovum, there are two pronuclei, one originating from the ovum, the other from the spermatozoon that brought about fertilization\_ they approach each other, but do not fuse until just before the first cleavage, when each pronucleus loses its membrane to release its contents." [ISBN

2678 Pathogen[ Q2Q067] interacts with 9 human partners:{P49454;P20226;P14866;Q15910;Q00613;P56279;Q15021;O75530;P20823}

2679 Pathogen[ P0C214] interacts with 8 human partners:{Q00613;O75530;Q15910;P20226;P49454;P56279;P14866;Q15021}

2680 Pathogen[ P03346] interacts with 9 human partners:{P56279;P14866;Q00613;O75530;P20823;P20226;Q15021;Q15910;P49454}

2681 Pathogen[ Q85601] interacts with 9 human partners:{P49454;P56279;Q00613;O75530;P14866;Q15910;P20823;Q15021;P20226}

2682 Pathogen[ P14079] interacts with 7 human partners:{P14866;Q00613;O75530;P49454;Q15910;P56279;Q15021}

2683 Pathogen[ P03383] interacts with 8 human partners:{P49454;P14866;P20226;Q00613;Q15910;P56279;Q15021;O75530}

2684 Pathogen[ P03410] interacts with 8 human partners:{Q00613;P56279;P20226;P14866;P49454;Q15910;Q15021;O75530}

2685 Pathogen[ P14075] interacts with 8 human partners:{P14866;Q00613;Q15910;P20226;P56279;P49454;Q15021;O75530}

2686 Pathogen[ P0C206] interacts with 9 human partners:{O75530;P20226;Q00613;P14866;Q15021;P49454;Q15910;P20823;P56279}

2687 Pathogen[ P03363] interacts with 8 human partners:{P49454;Q15021;P56279;P14866;Q15910;O75530;P20226;Q00613}

2688 [Cluster 245]GO:0030665+ cellular\_component [name] clathrin coated vesicle membrane [def] "The lipid bilayer surrounding a clathrin-coated vesicle." [GOC

2689 Pathogen[ Q2Q067] interacts with 6 human partners:{Q9Y6Q5;Q10567;O43747;O00291;Q9BXS5;Q13367}

2690 Pathogen[ P0C214] interacts with 7 human partners:{Q9UM54;Q13367;Q10567;O43747;Q9Y6Q5;Q9BXS5;O00291}

2691 Pathogen[ P03346] interacts with 7 human partners:{O43747;Q9BXS5;O00291;Q10567;Q13367;Q9Y6Q5;O75146}

2692 Pathogen[ Q85601] interacts with 7 human partners:{Q13367;Q9BXS5;O43747;Q10567;O00291;Q9UM54;Q9Y6Q5}

2693 Pathogen[ P14079] interacts with 10 human partners:{Q9Y6Q5;O00291;Q9BXS5;O75146;Q10567;Q9UM54;Q8NC96;Q9NVZ3;Q13367;O43747}

2694 Pathogen[ P03383] interacts with 5 human partners:{Q10567;O00291;O43747;Q13367;Q9BXS5}

2695 Pathogen[ P03410] interacts with 11 human partners:{Q8NC96;Q9Y6Q5;O00203;Q9BXS5;Q9NVZ3;O43747;Q10567;O00291;O75146;Q9UM54;Q13367}

2696 Pathogen[ P14075] interacts with 5 human partners:{O00291;O43747;Q9BXS5;Q10567;Q13367}

2697 Pathogen[ P0C206] interacts with 8 human partners:{Q9UM54;Q9Y6Q5;O00291;Q8NC96;O43747;Q10567;Q9BXS5;Q13367}

2698 Pathogen[ P03363] interacts with 6 human partners:{Q13367;O43747;Q9BXS5;O75146;O00291;Q10567}

2699 [Cluster 246]GO:0000791+ cellular\_component [name] euchromatin [def] "A dispersed and relatively uncompact form of chromatin." [GOC

2700 Pathogen[ Q2Q067] interacts with 2 human partners:{Q96T88;Q9Y6K1}

2701 Pathogen[ P0C214] interacts with 2 human partners:{Q9Y6K1;Q96T88}

2702 Pathogen[ P03346] interacts with 2 human partners:{Q9Y6K1;Q96T88}

2703 Pathogen[ Q85601] interacts with 2 human partners:{Q9Y6K1;Q96T88}

2704 Pathogen[ P14079] interacts with 1 human partners:{Q9Y6K1}

2705 Pathogen[ P03383] interacts with 1 human partners:{Q9Y6K1}

2706 Pathogen[ P03410] interacts with 1 human partners:{Q9Y6K1}

2707 Pathogen[ P14075] interacts with 1 human partners:{Q9Y6K1}

2708 Pathogen[ P0C206] interacts with 2 human partners:{Q9Y6K1;Q96T88}

2709 Pathogen[ P03363] interacts with 2 human partners:{Q9Y6K1;Q96T88}

2710 [Cluster 247]GO:0031298+ cellular\_component [name] replication fork protection complex [def] "A protein complex conserved in eukaryotes and associated with the replication fork\_ the complex stabilizes stalled replication forks and is thought to be involved in coordinating leading- and lagging-strand synthesis and in replication checkpoint signaling." [PMID

2711 Pathogen[ Q2Q067] interacts with 1 human partners:{P11387}

2712 Pathogen[ P0C214] interacts with 1 human partners:{P11387}

2713 Pathogen[ P03346] interacts with 1 human partners:{P11387}

2714 Pathogen[ Q85601] interacts with 1 human partners:{P11387}

2715 Pathogen[ P14079] interacts with 1 human partners:{Q969P6}

2716 Pathogen[ P03383] interacts with 1 human partners:{P11387}

2717 Pathogen[ P03410] interacts with 1 human partners:{P11387}

2718 Pathogen[ P14075] interacts with 1 human partners:{P11387}

2719 Pathogen[ P0C206] interacts with 1 human partners:{P11387}

2720 Pathogen[ P03363] interacts with 1 human partners:{P11387}  
2721 [Cluster 248]GO:0031966+C cellular\_component [name] mitochondrial membrane [def]  
"Either of the lipid bilayers that surround the mitochondrion and form the mitochondrial  
envelope." [GOC  
2722 Pathogen[ Q2Q067] interacts with 15 human  
partners:{Q96TC7;P55957;Q9P032;Q9UMX3;O75489;P49901;P26678;O43678;Q92843;Q9P0J0;Q9UQF  
2;Q86WG3;Q12983;Q9UBX3;Q9BXF6}  
2723 Pathogen[ P0C214] interacts with 22 human  
partners:{Q16795;O43678;P49901;P56556;P55957;Q96TC7;O14561;Q9UBX3;Q9P0J0;Q9NSK7;Q9UMX  
3;Q9BXF6;Q9UQF2;Q12983;Q92843;P10909;O75489;Q86WG3;P55210;Q9H902;Q9P032;P26678}  
2724 Pathogen[ P03346] interacts with 17 human  
partners:{Q9P032;O75489;Q9UBX3;P26678;O43678;P55957;Q96TC7;Q12983;Q92843;Q9H902;Q9UQF  
2;P55210;Q9BXF6;Q9UMX3;Q9P0J0;P49901;Q86WG3}  
2725 Pathogen[ Q85601] interacts with 15 human  
partners:{Q9P0J0;Q9UBX3;O43678;Q9UMX3;Q9NSK7;Q9UQF2;Q9BXF6;Q92843;P55957;Q9H902;Q86WG  
3;Q12983;Q96TC7;Q9P032;P55210}  
2726 Pathogen[ P14079] interacts with 42 human  
partners:{P04083;Q5RI15;P56556;Q86WG3;O95139;Q12887;Q9NSK7;P56378;Q13323;Q9UQF2;Q96I3  
6;Q9BXX5;Q15070;P10909;Q7Z4Y8;Q7Z434;Q9BVV7;P03928;Q9BXF6;P55210;O43678;O14561;Q9P0J0  
;Q12983;Q9P0S9;Q9UMX3;Q96KJ9;O75489;P03923;Q9P032;P03897;O15239;Q9Y2R0;P26678;Q9GZY4;  
Q96TC7;Q9H902;P03901;P03886;P55957;P49901;Q92843}  
2727 Pathogen[ P03383] interacts with 13 human  
partners:{Q96TC7;Q86WG3;O43678;P55957;O75489;Q9UMX3;Q9UQF2;Q12983;Q9BXF6;P49901;P2667  
8;Q9P0J0;Q9P032}  
2728 Pathogen[ P03410] interacts with 39 human  
partners:{Q96TC7;P56556;Q96KJ9;P49901;Q9Y2R0;Q12983;Q9H902;O43678;P56378;Q9NSK7;Q86WG  
3;Q9GZY4;Q92843;O15239;Q9UBX3;Q7Z434;P55957;P03886;Q9UMX3;O14561;Q96I36;P26678;P03928  
;Q9BXF6;O75489;P03897;Q9P0S9;Q15070;P03901;Q9UQF2;Q9P0J0;P03923;Q9P032;Q12887;Q96IX5;  
Q7Z4Y8;Q13323;P10909;P55210}  
2729 Pathogen[ P14075] interacts with 16 human  
partners:{Q86WG3;Q12983;P55957;Q9UMX3;Q96TC7;Q15070;O14561;O43678;P56378;P26678;Q9BXF  
6;O75489;Q9P032;P49901;Q9P0J0;Q9UQF2}  
2730 Pathogen[ P0C206] interacts with 23 human  
partners:{Q96TC7;Q9P032;Q9BXF6;P49901;Q9UMX3;Q9UBX3;Q9UQF2;O14561;Q12983;Q92843;Q1507  
0;P10909;Q9P0J0;O43678;O75489;Q9BXX5;P26678;Q86WG3;P55210;Q9H902;P56556;P55957;Q9NSK7  
}  
2731 Pathogen[ P03363] interacts with 12 human  
partners:{P55957;Q9H902;Q9UQF2;Q96TC7;Q9P032;Q86WG3;Q9P0J0;Q92843;Q9BXF6;P55210;P4990  
1;Q9UMX3}  
2732 [Cluster 249]GO:0048500+C cellular\_component [name] signal recognition particle [def]  
"A complex of protein and RNA which facilitates translocation of proteins across  
membranes." [GOC  
2733 Pathogen[ Q2Q067] interacts with 2 human partners:{P49458;P09132}  
2734 Pathogen[ P0C214] interacts with 2 human partners:{P49458;P09132}  
2735 Pathogen[ P03346] interacts with 2 human partners:{P49458;P09132}  
2736 Pathogen[ Q85601] interacts with 1 human partners:{P09132}  
2737 Pathogen[ P14079] interacts with 2 human partners:{P09132;P49458}  
2738 Pathogen[ P03383] interacts with 2 human partners:{P49458;P09132}  
2739 Pathogen[ P03410] interacts with 2 human partners:{P09132;P49458}  
2740 Pathogen[ P14075] interacts with 2 human partners:{P09132;P49458}  
2741 Pathogen[ P0C206] interacts with 2 human partners:{P09132;P49458}  
2742 Pathogen[ P03363] interacts with 2 human partners:{P09132;P49458}  
2743 [Cluster 250]GO:0071818+C cellular\_component [name] BAT3 complex [def] "An ER membrane  
insertion complex that acts by facilitating tail-anchored protein capture by ASNA1/TRC40.  
In mammals the complex contains Bat3, TRC35 and Ubl4A." [GOC  
2744 Pathogen[ Q2Q067] interacts with 2 human partners:{Q7L5D6;P11441}  
2745 Pathogen[ P0C214] interacts with 3 human partners:{P46379;P11441;Q7L5D6}  
2746 Pathogen[ P03346] interacts with 3 human partners:{Q7L5D6;P11441;P46379}  
2747 Pathogen[ Q85601] interacts with 3 human partners:{P46379;Q7L5D6;P11441}  
2748 Pathogen[ P14079] interacts with 2 human partners:{Q7L5D6;P11441}  
2749 Pathogen[ P03383] interacts with 2 human partners:{Q7L5D6;P11441}  
2750 Pathogen[ P03410] interacts with 2 human partners:{Q7L5D6;P11441}  
2751 Pathogen[ P14075] interacts with 2 human partners:{P11441;Q7L5D6}  
2752 Pathogen[ P0C206] interacts with 3 human partners:{P11441;Q7L5D6;P46379}  
2753 Pathogen[ P03363] interacts with 3 human partners:{P46379;P11441;Q7L5D6}  
2754 [Cluster 251]GO:0043293+C cellular\_component [name] apoptosome [def] "A multisubunit  
protein complex involved in the activation of apoptosis. In mammals it is typically  
composed of seven Apaf-1 subunits bound to cytochrome c and caspase-9. A similar complex  
to promote apoptosis is formed from homologous gene products in other eukaryotic  
organisms." [PMID  
2755 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BZF9}  
2756 Pathogen[ P0C214] interacts with 2 human partners:{Q9BZF9;O14727}  
2757 Pathogen[ P03346] interacts with 3 human partners:{P55211;Q9BZF9;O14727}  
2758 Pathogen[ Q85601] interacts with 1 human partners:{Q9BZF9}  
2759 Pathogen[ P14079] interacts with 1 human partners:{Q9BZF9}  
2760 Pathogen[ P03383] interacts with 1 human partners:{Q9BZF9}

2761 Pathogen[ P03410] interacts with 1 human partners:{Q9BZF9}

2762 Pathogen[ P14075] interacts with 1 human partners:{Q9BZF9}

2763 Pathogen[ P0C206] interacts with 1 human partners:{Q9BZF9}

2764 Pathogen[ P03363] interacts with 1 human partners:{Q9BZF9}

2765 [Cluster 252]GO:0031466+C cellular\_component [name] Cul5-RING ubiquitin ligase complex [def] "A ubiquitin ligase complex in which a cullin from the Cul5 subfamily and a RING domain protein form the catalytic core\_ substrate specificity is conferred by an elongin-BC adaptor and a SOCS/BC box protein." [PMID

2766 Pathogen[ Q2Q067] interacts with 3 human partners:{Q93034;Q15370;P62877}

2767 Pathogen[ P0C214] interacts with 3 human partners:{Q93034;Q15370;P62877}

2768 Pathogen[ P03346] interacts with 3 human partners:{Q15370;Q93034;P62877}

2769 Pathogen[ Q85601] interacts with 3 human partners:{Q15370;P62877;Q93034}

2770 Pathogen[ P14079] interacts with 3 human partners:{P62877;Q93034;Q15370}

2771 Pathogen[ P03383] interacts with 3 human partners:{Q93034;P62877;Q15370}

2772 Pathogen[ P03410] interacts with 3 human partners:{Q15370;P62877;Q93034}

2773 Pathogen[ P14075] interacts with 3 human partners:{Q93034;Q15370;P62877}

2774 Pathogen[ P0C206] interacts with 3 human partners:{P62877;Q15370;Q93034}

2775 Pathogen[ P03363] interacts with 3 human partners:{Q15370;P62877;Q93034}

2776 [Cluster 253]GO:0005683+C cellular\_component [name] U7 snRNP [def] "A ribonucleoprotein complex that contains the U7 snRNA and is required for the 3'-end processing of replication-dependent histone pre-mRNAs." [PMID

2777 Pathogen[ Q2Q067] interacts with 7 human partners:{P83369;P62318;P62304;P14678;P62306;P62308;Q969L4}

2778 Pathogen[ P0C214] interacts with 7 human partners:{P83369;P14678;P62306;Q969L4;P62308;P62318;P62304}

2779 Pathogen[ P03346] interacts with 7 human partners:{P62304;P62318;P83369;P62306;P14678;Q969L4;P62308}

2780 Pathogen[ Q85601] interacts with 7 human partners:{P62304;Q969L4;P14678;P62306;P62318;P83369;P62308}

2781 Pathogen[ P14079] interacts with 7 human partners:{P83369;P62306;P14678;P62308;P62304;Q969L4;P62318}

2782 Pathogen[ P03383] interacts with 7 human partners:{Q969L4;P62318;P62304;P14678;P62308;P83369;P62306}

2783 Pathogen[ P03410] interacts with 7 human partners:{P62304;P62306;P62308;P14678;P83369;Q969L4;P62318}

2784 Pathogen[ P14075] interacts with 7 human partners:{P62304;P62306;P62308;P62318;P83369;P14678;Q969L4}

2785 Pathogen[ P0C206] interacts with 7 human partners:{P14678;P62304;P83369;P62318;P62306;P62308;Q969L4}

2786 Pathogen[ P03363] interacts with 7 human partners:{P62318;P62304;P62306;P83369;Q969L4;P62308;P14678}

2787 [Cluster 254]GO:0051233+C cellular\_component [name] spindle midzone [def] "The area in the center of the spindle where the spindle microtubules from opposite poles overlap." [GOC

2788 Pathogen[ Q2Q067] interacts with 5 human partners:{Q99741;Q99569;Q7Z7K6;Q9Y5B0;P60953}

2789 Pathogen[ P0C214] interacts with 4 human partners:{P60953;Q7Z7K6;Q9Y5B0;Q99741}

2790 Pathogen[ P03346] interacts with 5 human partners:{Q99569;P60953;Q9Y5B0;Q7Z7K6;Q99741}

2791 Pathogen[ Q85601] interacts with 5 human partners:{Q99569;Q7Z7K6;Q9Y5B0;P60953;Q99741}

2792 Pathogen[ P14079] interacts with 4 human partners:{Q9Y5B0;Q99741;Q99569;Q7Z7K6}

2793 Pathogen[ P03383] interacts with 4 human partners:{P60953;Q7Z7K6;Q9Y5B0;Q99741}

2794 Pathogen[ P03410] interacts with 5 human partners:{Q7Z7K6;Q9Y5B0;P60953;Q99569;Q99741}

2795 Pathogen[ P14075] interacts with 4 human partners:{P60953;Q9Y5B0;Q7Z7K6;Q99741}

2796 Pathogen[ P0C206] interacts with 5 human partners:{Q99741;Q9Y5B0;Q99569;Q7Z7K6;P60953}

2797 Pathogen[ P03363] interacts with 5 human partners:{Q7Z7K6;Q9Y5B0;Q99569;Q99741;P60953}

2798 [Cluster 255]GO:0000808+C cellular\_component [name] origin recognition complex [def] "A multisubunit complex that is located at the replication origins of a chromosome." [GOC

2799 Pathogen[ Q2Q067] interacts with 5 human partners:{Q13415;Q9UBD5;O43913;Q9Y5N6;Q13416}

2800 Pathogen[ P0C214] interacts with 5 human partners:{O43913;Q9Y5N6;Q13416;Q9UBD5;Q13415}

2801 Pathogen[ P03346] interacts with 6 human partners:{Q9Y5N6;Q9UBD5;Q13415;Q13416;O43929;O43913}

2802 Pathogen[ Q85601] interacts with 5 human partners:{O43913;Q13415;Q9Y5N6;Q9UBD5;Q13416}

2803 Pathogen[ P14079] interacts with 6 human partners:{Q13416;Q13415;Q9Y5N6;O43913;Q9UBD5;O43929}

2804 Pathogen[ P03383] interacts with 4 human partners:{Q9UBD5;O43913;Q9Y5N6;Q13416}

2805 Pathogen[ P03410] interacts with 6 human partners:{O43929;Q13416;Q9Y5N6;O43913;Q9UBD5;Q13415}

2806 Pathogen[ P14075] interacts with 4 human partners:{Q9Y5N6;Q9UBD5;O43913;Q13416}

2807 Pathogen[ P0C206] interacts with 5 human  
partners:{O43913;Q9UBD5;Q13416;Q9Y5N6;Q13415}

2808 Pathogen[ P03363] interacts with 5 human  
partners:{Q13416;Q13415;Q9UBD5;Q9Y5N6;O43913}

2809 [Cluster 256]GO:0080008+C cellular\_component [name] CUL4 RING ubiquitin ligase complex [def] "A ubiquitin ligase complex in which a cullin from the Cul4 family and a RING domain protein form the catalytic core\_ substrate specificity is conferred by an adaptor protein." [PMID

2810 Pathogen[ Q2Q067] interacts with 6 human  
partners:{Q5TAQ9;Q16531;Q8TEB1;Q13619;P61962;Q9NXF7}

2811 Pathogen[ P0C214] interacts with 7 human  
partners:{Q13619;Q9NXF7;P61962;Q5TAQ9;Q16531;Q9NV06;Q8TEB1}

2812 Pathogen[ P03346] interacts with 11 human  
partners:{Q5T6F0;Q969U6;Q16531;Q58WW2;P61962;Q9NV06;Q5TAQ9;Q9NXF7;Q13619;Q5H9S7;Q8TEB1}

2813 Pathogen[ Q85601] interacts with 7 human  
partners:{P61962;Q16531;Q5TAQ9;Q8TEB1;Q9NXF7;Q9NV06;Q13619}

2814 Pathogen[ P14079] interacts with 9 human  
partners:{Q5TAQ9;Q9NXF7;Q16531;Q9NV06;Q5H9S7;P61962;Q5T6F0;Q8TEB1;Q13619}

2815 Pathogen[ P03383] interacts with 3 human partners:{Q9NXF7;P61962;Q16531}

2816 Pathogen[ P03410] interacts with 10 human  
partners:{Q9NV06;Q5H9S7;Q8TEB1;P61962;Q5T6F0;Q16531;Q969U6;Q13619;Q5TAQ9;Q9NXF7}

2817 Pathogen[ P14075] interacts with 4 human partners:{Q16531;Q5H9S7;Q9NXF7;P61962}

2818 Pathogen[ P0C206] interacts with 10 human  
partners:{Q8TEB1;Q16531;Q13619;Q9NV06;Q5TAQ9;P61962;Q5H9S7;Q9NXF7;Q5T6F0;Q969U6}

2819 Pathogen[ P03363] interacts with 10 human  
partners:{Q16531;Q5TAQ9;Q9NXF7;Q13619;Q5T6F0;Q8TEB1;P61962;Q969U6;Q58WW2;Q9NV06}

2820 [Cluster 257]GO:0034399+C cellular\_component [name] nuclear periphery [def] "The portion of the nuclear lumen proximal to the inner nuclear membrane." [GOC

2821 Pathogen[ Q2Q067] interacts with 3 human partners:{P17544;O75475;P23497}

2822 Pathogen[ P0C214] interacts with 3 human partners:{P17544;O75475;P23497}

2823 Pathogen[ P03346] interacts with 4 human partners:{O75475;P17544;P11137;P23497}

2824 Pathogen[ Q85601] interacts with 2 human partners:{P17544;O75475}

2825 Pathogen[ P14079] interacts with 5 human  
partners:{O75475;P23497;P17544;P11137;P10636}

2826 Pathogen[ P03383] interacts with 3 human partners:{P17544;O75475;P23497}

2827 Pathogen[ P03410] interacts with 4 human partners:{P11137;P17544;P10636;O75475}

2828 Pathogen[ P14075] interacts with 3 human partners:{P23497;O75475;P17544}

2829 Pathogen[ P0C206] interacts with 4 human partners:{P17544;P10636;O75475;P11137}

2830 Pathogen[ P03363] interacts with 4 human partners:{P11137;O75475;P23497;P17544}

2831 [Cluster 258]GO:0016010+C cellular\_component [name] dystrophin-associated glycoprotein complex [def] "A multiprotein complex that forms a strong mechanical link between the cytoskeleton and extracellular matrix\_ typical of, but not confined to, muscle cells. The complex is composed of transmembrane, cytoplasmic, and extracellular proteins, including dystrophin, sarcoglycans, dystroglycan, dystrobrevins, syntrophins, sarcospan, caveolin-3, and NO synthase." [PMID

2832 Pathogen[ Q2Q067] interacts with 6 human  
partners:{Q13884;P08727;P11532;P46939;Q13425;Q9HCI5}

2833 Pathogen[ P0C214] interacts with 7 human  
partners:{Q13884;P11532;Q15124;Q13425;P46939;P08727;Q9HCI5}

2834 Pathogen[ P03346] interacts with 6 human  
partners:{Q13425;P08727;Q13884;P46939;P11532;Q9HCI5}

2835 Pathogen[ Q85601] interacts with 7 human  
partners:{Q13884;P11532;Q15124;P46939;Q13425;P08727;Q9HCI5}

2836 Pathogen[ P14079] interacts with 9 human  
partners:{P11532;Q16585;Q15124;Q14118;Q9HCI5;P46939;Q92629;Q16586;P08727}

2837 Pathogen[ P03383] interacts with 6 human  
partners:{P08727;Q13884;P46939;P11532;Q9HCI5;Q13425}

2838 Pathogen[ P03410] interacts with 10 human  
partners:{P11532;Q13425;Q15124;Q16585;Q13884;P46939;Q14118;Q9HCI5;Q92629;P08727}

2839 Pathogen[ P14075] interacts with 6 human  
partners:{P11532;Q13884;P08727;Q13425;P46939;Q9HCI5}

2840 Pathogen[ P0C206] interacts with 7 human  
partners:{P46939;P08727;Q15124;Q13884;Q13425;P11532;Q9HCI5}

2841 Pathogen[ P03363] interacts with 6 human  
partners:{P46939;Q13425;P08727;P11532;Q13884;Q9HCI5}

2842 [Cluster 259]GO:0015630+C cellular\_component [name] microtubule cytoskeleton [def] "The part of the cytoskeleton (the internal framework of a cell) composed of microtubules and associated proteins." [GOC

2843 Pathogen[ Q2Q067] interacts with 50 human  
partners:{Q09FC8;P30153;P31749;Q14008;Q7Z5K2;O43663;Q15046;Q8WWK9;Q86XR8;P61970;P19387;O75347;P02511;Q9P270;P67775;Q01892;A6NKF1;Q8WYQ5;P12004;Q15003;P78317;Q7Z7K6;Q14498;Q6PGN9;P15621;Q95067;O15265;P04406;P78396;Q86TC9;P13984;Q9ULW0;O75665;Q3B726;Q7L266;Q96BD8;O75410;Q9NS23;Q9UPA5;Q14244;Q9UGJ1;P06132;Q99689;Q9BVN2;Q92597;O14978;P27816;Q9NPA3;Q5T0J7;O60477}

2844 Pathogen[ P0C214] interacts with 51 human

partners: {P06132; Q14008; O75347; P30153; Q9NS23; Q99698; Q15003; Q7L266; P02511; Q9NPA3; P34897; O60477; P78317; Q9UGJ1; P27816; Q6PGN9; Q92597; O14613; Q96BD8; Q14244; Q86TC9; Q86XR8; P78396; Q9ULW0; O43663; O95067; Q3B726; Q99689; P67775; Q01892; Q7Z7K6; P13984; O75665; Q7Z5K2; O75410; P15621; Q9BVN2; A6NKF1; O15265; O14978; Q8WWK9; Q96BT7; P19387; Q15046; Q9P270; P61970; Q14498; Q8WYQ5; P04406; Q09FC8; P31749}

2845 Pathogen[ P03346] interacts with 62 human partners: {O15265; Q86TC9; P12004; P46063; O75592; P78396; Q99698; P04406; Q86XR8; Q7Z5K2; O75410; Q99689; Q7L266; O14978; Q14498; Q99426; P67775; O14613; O95067; Q09FC8; P15621; O75347; Q13813; P30153; Q9C0H6; Q15555; O75665; Q9ULW0; P02511; P13984; A6NKF1; Q92597; P31749; O60477; Q14008; Q9UGJ1; Q6PGN9; Q7Z7K6; P06132; P78317; P30622; Q96BT7; P27816; Q14244; Q8WWK9; Q9BVN2; Q6GQQ9; Q96KN3; P61970; O43663; Q9P270; Q01892; Q15003; Q5T0J7; Q96BD8; Q9NS23; P19387; Q9NPA3; Q3B726; Q9UPA5; Q9UBP0; Q8WYQ5}

2846 Pathogen[ Q85601] interacts with 55 human partners: {Q86TC9; P78317; P15621; Q6PGN9; P27816; P31749; Q7Z7K6; Q01892; Q14008; Q8WWK9; O15265; Q14244; Q9UBP0; Q7L266; O14978; P30622; Q09FC8; Q9BVN2; P30153; P61970; Q15046; Q9NS23; Q9ULW0; A6NKF1; O43663; Q7Z5K2; Q8WYQ5; Q86XR8; Q15555; O75665; P13984; Q9UGJ1; Q3B726; P02511; O75347; Q9UPA5; Q96BD8; O14613; P78396; Q9BVA0; Q9NPA3; P06132; Q99689; P67775; P19387; P12004; Q92597; P04406; O95067; Q9P270; Q9C0H6; Q15003; Q14498; O75410; Q99698}

2847 Pathogen[ P14079] interacts with 65 human partners: {P61970; O14613; Q9NS23; Q9NPA3; P19387; Q9BVN2; P78396; P02511; Q9UGJ1; Q5T0J7; Q9UPA5; O43813; Q95067; P68363; Q14244; Q9ULW0; P34897; Q92597; Q15003; Q14498; Q9Y4R7; Q7L266; O60477; Q86TC9; A6PVC2; Q01892; P06132; Q99661; O43663; Q99689; Q15046; Q99426; Q7Z4L9; Q15555; Q3B726; O14978; A6NKF1; Q9H0I2; Q6PGN9; Q8WWK9; Q9P270; P13984; Q9C0H6; O75410; Q8WYQ5; P78317; O15265; P12004; O75347; O75665; P30153; Q86XR8; P15621; Q99698; Q7Z5K2; Q13813; Q96BD8; Q9BVA0; Q9H3Q1; P27816; Q09FC8; Q7Z7K6; P30622; Q14008; P04406}

2848 Pathogen[ P03383] interacts with 45 human partners: {Q14244; Q86XR8; Q96BD8; Q14008; Q8WWK9; P31749; O75410; Q99689; P02511; Q8WYQ5; P30153; P78317; P67775; Q7Z7K6; Q92597; P15621; P78396; A6NKF1; Q6PGN9; Q7L266; Q15003; O14978; Q01892; P27816; P19387; P06132; P13984; O75347; O15265; Q5T0J7; Q15046; P04406; O95067; Q09FC8; Q9ULW0; P61970; O43663; Q9P270; O75665; Q9NPA3; O60477; Q7Z5K2; Q3B726; Q9BVN2; Q14498}

2849 Pathogen[ P03410] interacts with 65 human partners: {Q9BVN2; O75665; Q9Y4R7; P19387; Q9C0H6; Q7L266; P30622; P15621; P27816; Q7Z5K2; Q7Z4L9; Q8WWK9; Q14008; Q9NS23; O95067; P31749; Q15003; P06132; Q9H3Q1; Q09FC8; Q8WYQ5; Q5T0J7; Q7Z7K6; P78396; Q15555; Q9H0I2; Q9UPA5; O14613; P78317; P02511; Q9BVA1; Q15046; O75410; P04406; O75347; P30153; Q3B726; Q9ULW0; P68363; Q99698; O14978; P13984; Q14498; O15265; Q92597; Q6PGN9; A6NKF1; Q9P270; Q96BD8; O60477; A6PVC2; Q99426; P67775; Q13813; Q14244; P12004; Q9NPA3; Q86TC9; P34897; Q9UGJ1; Q9BVA0; Q01892; O43663; P61970; Q99689}

2850 Pathogen[ P14075] interacts with 47 human partners: {P13984; O95067; O15265; P06132; O43663; O75347; O75410; P61970; Q9BVN2; P19387; Q96BD8; P78396; Q9ULW0; P31749; Q3B726; P04406; Q86XR8; Q7L266; Q01892; Q7Z5K2; Q9NPA3; Q5T0J7; O14613; P78317; O14978; P02511; P67775; P30153; O60477; Q7Z7K6; A6NKF1; P15621; Q6PGN9; Q8WWK9; Q09FC8; O75665; Q92597; Q15003; Q14008; Q9UPA5; Q15046; Q9P270; P27816; Q14498; Q14244; Q8WYQ5; Q99689}

2851 Pathogen[ P0C206] interacts with 61 human partners: {Q92597; Q9NPA3; Q86XR8; Q9BVA0; Q86TC9; P31749; Q14008; Q9UBP0; P30153; Q9ULW0; Q9UPA5; O60477; Q9C0H6; O14613; Q7Z5K2; O15265; Q99698; P15621; P34897; Q6PGN9; P67775; P30622; P78317; Q3B726; P13984; Q9UGJ1; Q14244; Q15003; Q99689; O75410; Q99426; P27816; Q96BD8; A6NKF1; P19387; Q7Z7K6; O43663; P04406; Q6GQQ9; O75665; Q09FC8; P78396; O95067; Q9P270; Q16181; Q15555; Q7L266; O75347; P02511; Q9NS23; Q8WYQ5; Q14498; Q01892; Q8WWK9; Q5T0J7; P61970; P06132; O14978; Q15046; Q9BVN2; P12004}

2852 Pathogen[ P03363] interacts with 61 human partners: {O75410; A6NKF1; Q86TC9; O75347; Q7Z7K6; Q14244; O14978; P13984; Q6GQQ9; P61970; Q96BD8; Q8WWK9; P19387; Q01892; Q9ULW0; Q92597; Q96BT7; P15621; P68363; P78317; P06132; Q3B726; Q13748; Q6PGN9; P30622; Q8IYM1; Q7L266; P27816; O95067; Q96KN3; P46063; Q99698; Q99426; P31749; P78396; O60477; P04406; O15265; O14613; Q9P270; Q5T0J7; Q9C0H6; Q9NS23; Q9BVN2; Q9UPA5; Q9UGJ1; Q09FC8; Q86XR8; Q14008; Q14498; O43663; Q9NPA3; P30153; Q7Z5K2; Q13813; Q8WYQ5; P67775; Q15003; Q15555; O75665; Q99689}

2853 [Cluster 260]GO:0035869+C cellular\_component [name] ciliary transition zone [def] "A region of the cilium between the basal body and proximal segment that is characterized by Y-shaped assemblages that connect axonemal microtubules to the ciliary membrane. The ciliary transition zone appears to function as a gate that controls ciliary membrane composition." [GOC

2854 Pathogen[ Q2Q067] interacts with 3 human partners: {Q9NXB0; A6NIH7; Q96GV9}

2855 Pathogen[ P0C214] interacts with 3 human partners: {Q96GV9; Q9NXB0; A6NIH7}

2856 Pathogen[ P03346] interacts with 3 human partners: {Q96GV9; Q9NXB0; A6NIH7}

2857 Pathogen[ Q85601] interacts with 3 human partners: {Q9NXB0; A6NIH7; Q96GV9}

2858 Pathogen[ P14079] interacts with 8 human partners: {Q9P0N5; A6NIH7; Q96Q45; Q9UPM9; Q9P2K1; Q9NXB0; Q6IQ19; Q96GV9}

2859 Pathogen[ P03383] interacts with 3 human partners: {Q9NXB0; A6NIH7; Q96GV9}

2860 Pathogen[ P03410] interacts with 8 human partners: {Q96Q45; A6NIH7; Q6IQ19; Q9P0N5; Q9P2K1; Q9UPM9; Q96GV9; Q9NXB0}

2861 Pathogen[ P14075] interacts with 4 human partners: {Q96GV9; Q9NXB0; Q6IQ19; A6NIH7}

2862 Pathogen[ P0C206] interacts with 6 human partners: {Q9UPM9; Q9P2K1; Q96GV9; Q6IQ19; A6NIH7; Q9NXB0}

2863 Pathogen[ P03363] interacts with 5 human partners: {Q9P2K1; Q6IQ19; A6NIH7; Q96GV9; Q9NXB0}

2864 [Cluster 261]GO:0031213+C cellular\_component [name] RSF complex [def] "A chromatin

remodeling complex that mediates nucleosome deposition and generates regularly spaced nucleosome arrays. In humans, the complex is composed of the ATPase hSNF2H and the HBXAP protein (RSF-1)." [PMID

2865 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96T23}

2866 Pathogen[ P0C214] interacts with 2 human partners:{O60264;Q96T23}

2867 Pathogen[ P03346] interacts with 2 human partners:{O60264;Q96T23}

2868 Pathogen[ Q85601] interacts with 2 human partners:{Q96T23;O60264}

2869 Pathogen[ P14079] interacts with 2 human partners:{Q96T23;O60264}

2870 Pathogen[ P03383] interacts with 1 human partners:{Q96T23}

2871 Pathogen[ P03410] interacts with 2 human partners:{Q96T23;O60264}

2872 Pathogen[ P14075] interacts with 1 human partners:{Q96T23}

2873 Pathogen[ P0C206] interacts with 2 human partners:{Q96T23;O60264}

2874 Pathogen[ P03363] interacts with 2 human partners:{O60264;Q96T23}

2875 [Cluster 262]GO:0032449+C cellular\_component [name] CBM complex [def] "A protein complex comprising Carmal, Bcl10 and MALT1\_ plays a role in signal transduction during NF-kappaB activation." [PMID

2876 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9UDY8;O95999}

2877 Pathogen[ P0C214] interacts with 2 human partners:{Q9UDY8;O95999}

2878 Pathogen[ P03346] interacts with 3 human partners:{Q9UDY8;Q9BWT7;O95999}

2879 Pathogen[ Q85601] interacts with 2 human partners:{Q9UDY8;O95999}

2880 Pathogen[ P14079] interacts with 1 human partners:{O95999}

2881 Pathogen[ P03383] interacts with 1 human partners:{O95999}

2882 Pathogen[ P03410] interacts with 2 human partners:{O95999;Q9BWT7}

2883 Pathogen[ P14075] interacts with 1 human partners:{O95999}

2884 Pathogen[ P0C206] interacts with 3 human partners:{Q9UDY8;O95999;Q9BWT7}

2885 Pathogen[ P03363] interacts with 1 human partners:{Q9BWT7}

2886 [Cluster 263]GO:0005942+C cellular\_component [name] phosphatidylinositol 3-kinase complex [def] "A complex containing a heterodimer of a catalytic subunit and a regulatory (adaptor) subunit of any phosphatidylinositol 3-kinase (PI3K)." [GOC

2887 Pathogen[ Q2Q067] interacts with 2 human partners:{Q8WYR1;P27986}

2888 Pathogen[ P0C214] interacts with 2 human partners:{Q8WYR1;P27986}

2889 Pathogen[ P03346] interacts with 2 human partners:{Q8WYR1;P27986}

2890 Pathogen[ Q85601] interacts with 2 human partners:{P27986;Q8WYR1}

2891 Pathogen[ P14079] interacts with 1 human partners:{Q8WYR1}

2892 Pathogen[ P03383] interacts with 2 human partners:{P27986;Q8WYR1}

2893 Pathogen[ P03410] interacts with 2 human partners:{P27986;Q8WYR1}

2894 Pathogen[ P14075] interacts with 2 human partners:{Q8WYR1;P27986}

2895 Pathogen[ P0C206] interacts with 2 human partners:{P27986;Q8WYR1}

2896 Pathogen[ P03363] interacts with 2 human partners:{Q8WYR1;P27986}

2897 [Cluster 264]GO:0001669+C cellular\_component [name] acrosomal vesicle [def] "A structure in the head of a spermatozoon that contains acid hydrolases, and is concerned with the breakdown of the outer membrane of the ovum during fertilization. It lies just beneath the plasma membrane and is derived from the lysosome." [ISBN

2898 Pathogen[ Q2Q067] interacts with 4 human partners:{P27797;Q96LC9;Q8NG31;O75969}

2899 Pathogen[ P0C214] interacts with 4 human partners:{Q96LC9;O75969;Q8NG31;P27797}

2900 Pathogen[ P03346] interacts with 5 human partners:{Q96LC9;O75969;C9J3V5;P27797;Q8NG31}

2901 Pathogen[ Q85601] interacts with 4 human partners:{Q96LC9;O75969;Q8NG31;P27797}

2902 Pathogen[ P14079] interacts with 11 human partners:{Q8NEB7;Q96KW9;Q9HBM0;Q99932;C9J3V5;Q8NG31;Q96KX2;Q96LC9;Q8NA54;Q6UW49;O75969}

2903 Pathogen[ P03383] interacts with 5 human partners:{Q96LC9;C9J3V5;Q8NG31;O75969;P27797}

2904 Pathogen[ P03410] interacts with 12 human partners:{Q96KX2;Q8NA54;Q9HBM0;Q96KW9;Q8NEB7;Q8NG31;Q96LC9;O75969;Q6UW49;C9J3V5;Q99932;P27797}

2905 Pathogen[ P14075] interacts with 7 human partners:{Q99932;Q96LC9;C9J3V5;O75969;P27797;Q9HBM0;Q8NG31}

2906 Pathogen[ P0C206] interacts with 8 human partners:{P27797;Q96LC9;Q8NA54;O75969;C9J3V5;Q99932;Q9HBM0;Q8NG31}

2907 Pathogen[ P03363] interacts with 5 human partners:{C9J3V5;Q96LC9;P27797;Q8NG31;O75969}

2908 [Cluster 265]GO:0031931+C cellular\_component [name] TORC1 complex [def] "A protein complex that contains at least TOR (target of rapamycin) and Raptor (regulatory-associated protein of TOR), or orthologs of, in complex with other signaling components. Mediates the phosphorylation and activation of S6K. In Saccharomyces, the complex contains Kog1p, Lst8p, Tco89p, and either Tor1p or Tor2p." [GOC

2909 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96B36}

2910 Pathogen[ P0C214] interacts with 1 human partners:{Q96B36}

2911 Pathogen[ P03346] interacts with 1 human partners:{Q96B36}

2912 Pathogen[ Q85601] interacts with 1 human partners:{Q96B36}

2913 Pathogen[ P14079] interacts with 1 human partners:{Q96B36}

2914 Pathogen[ P03383] interacts with 1 human partners:{Q96B36}

2915 Pathogen[ P03410] interacts with 1 human partners:{Q96B36}

2916 Pathogen[ P14075] interacts with 1 human partners:{Q96B36}

2917 Pathogen[ P0C206] interacts with 1 human partners:{Q96B36}



2918 Pathogen[ P03363] interacts with 1 human partners:{Q96B36}

2919 [Cluster 266]GO:000801+C cellular\_component [name] central element [def] "A structural unit of the synaptonemal complex found between the lateral elements." [GOC

2920 Pathogen[ Q2Q067] interacts with 4 human partners:{Q9NQS7;Q8IYF3;A1L190;Q6PIF2}

2921 Pathogen[ P0C214] interacts with 3 human partners:{A1L190;Q9NQS7;Q8IYF3}

2922 Pathogen[ P03346] interacts with 5 human partners:{Q8IYF3;Q9NQS7;Q6PIF2;A1L190;Q8N0S2}

2923 Pathogen[ Q85601] interacts with 4 human partners:{Q8IYF3;Q9NQS7;Q6PIF2;A1L190}

2924 Pathogen[ P14079] interacts with 4 human partners:{Q6PIF2;Q9NQS7;Q8IYF3;A1L190}

2925 Pathogen[ P03383] interacts with 3 human partners:{Q9NQS7;Q8IYF3;A1L190}

2926 Pathogen[ P03410] interacts with 5 human partners:{Q6PIF2;A1L190;Q8IYF3;Q8N0S2;Q9NQS7}

2927 Pathogen[ P14075] interacts with 3 human partners:{Q9NQS7;A1L190;Q8IYF3}

2928 Pathogen[ P0C206] interacts with 5 human partners:{A1L190;Q8N0S2;Q8IYF3;Q9NQS7;Q6PIF2}

2929 Pathogen[ P03363] interacts with 3 human partners:{Q6PIF2;Q9NQS7;A1L190}

2930 [Cluster 267]GO:0016281+C cellular\_component [name] eukaryotic translation initiation factor 4F complex [def] "The eukaryotic translation initiation factor 4F complex is composed of eIF4E, eIF4A and eIF4G\_ it is involved in the recognition of the mRNA cap, ATP-dependent unwinding of the 5'-terminal secondary structure and recruitment of the mRNA to the ribosome." [GOC

2931 Pathogen[ Q2Q067] interacts with 8 human partners:{P23588;Q14240;P78344;O60516;Q04637;P06730;P60842;Q15056}

2932 Pathogen[ P0C214] interacts with 8 human partners:{P60842;P23588;P78344;O60516;Q15056;Q14240;Q04637;P06730}

2933 Pathogen[ P03346] interacts with 8 human partners:{P06730;P78344;Q15056;P60842;Q14240;P23588;Q04637;O60516}

2934 Pathogen[ Q85601] interacts with 7 human partners:{P06730;Q14240;P23588;Q04637;O60516;P78344;P60842}

2935 Pathogen[ P14079] interacts with 9 human partners:{P60842;Q15056;P06730;O43432;Q14240;P78344;P23588;O60516;Q04637}

2936 Pathogen[ P03383] interacts with 5 human partners:{P23588;P06730;P78344;Q04637;O60516}

2937 Pathogen[ P03410] interacts with 9 human partners:{P06730;O43432;Q15056;P60842;Q04637;O60516;P78344;P23588;Q14240}

2938 Pathogen[ P14075] interacts with 5 human partners:{P23588;O60516;P78344;P06730;Q04637}

2939 Pathogen[ P0C206] interacts with 7 human partners:{P06730;Q14240;P23588;P78344;Q04637;P60842;O60516}

2940 Pathogen[ P03363] interacts with 8 human partners:{Q15056;P23588;Q14240;P60842;P78344;P06730;O60516;Q04637}

2941 [Cluster 268]GO:0031143+C cellular\_component [name] pseudopodium [def] "A temporary protrusion or retractile process of a cell, associated with flowing movements of the protoplasm, and serving for locomotion and feeding." [ISBN

2942 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NP98}

2943 Pathogen[ P0C214] interacts with 1 human partners:{Q9NP98}

2944 Pathogen[ P03346] interacts with 3 human partners:{O75112;O60662;Q9NP98}

2945 Pathogen[ Q85601] interacts with 2 human partners:{O75112;Q9NP98}

2946 Pathogen[ P14079] interacts with 2 human partners:{O75112;Q9NP98}

2947 Pathogen[ P03383] interacts with 1 human partners:{Q9NP98}

2948 Pathogen[ P03410] interacts with 2 human partners:{Q9NP98;O75112}

2949 Pathogen[ P14075] interacts with 1 human partners:{Q9NP98}

2950 Pathogen[ P0C206] interacts with 2 human partners:{Q9NP98;O75112}

2951 Pathogen[ P03363] interacts with 3 human partners:{O75112;Q9NP98;O60662}

2952 [Cluster 269]GO:0030863+C cellular\_component [name] cortical cytoskeleton [def] "The portion of the cytoskeleton that lies just beneath the plasma membrane." [GOC

2953 Pathogen[ Q2Q067] interacts with 4 human partners:{Q01082;P78352;P11171;P35579}

2954 Pathogen[ P0C214] interacts with 5 human partners:{P60709;P16157;Q01082;P78352;P11171}

2955 Pathogen[ P03346] interacts with 12 human partners:{P02549;P11277;P35579;P78352;P60709;Q08495;P28289;P16157;P16452;Q13813;Q01082;P11171}

2956 Pathogen[ Q85601] interacts with 6 human partners:{P16157;P35579;P11171;Q01082;P60709;P78352}

2957 Pathogen[ P14079] interacts with 13 human partners:{P16452;P35579;Q08495;P11171;Q01082;P47756;P16157;P28289;Q96KX2;P60709;P11277;Q13813;P02549}

2958 Pathogen[ P03383] interacts with 2 human partners:{P35579;P78352}

2959 Pathogen[ P03410] interacts with 14 human partners:{Q96KX2;P47756;P16157;P28289;P16452;P35579;P02549;P11171;Q08495;Q01082;P78352;Q13813;P11277;P60709}

2960 Pathogen[ P14075] interacts with 3 human partners:{P35579;P78352;P11171}

2961 Pathogen[ P0C206] interacts with 10 human partners:{Q01082;P60709;P78352;P47756;P16157;P16452;P35579;Q08495;P11277;P11171}

2962 Pathogen[ P03363] interacts with 12 human partners:{P11277;P02549;P60709;P16157;P35579;Q01082;P78352;Q08495;P11171;P28289;P16452}

2;Q13813]

2963 [Cluster 270]GO:0033588+C cellular\_component [name] Elongator holoenzyme complex [def] "A heterohexameric protein complex that is involved in modification of wobble nucleosides in tRNA, and exerts direct effects on transcriptional elongation and exocytosis. The complex can associate physically with hyperphosphorylated RNA polymerase II\_ it contains two discrete heterotrimeric subcomplexes." [GOC

2964 Pathogen[ Q2Q067] interacts with 6 human  
partners:{Q9H9T3;Q0PNE2;O95163;Q8TE02;Q6IA86;Q96EB1}

2965 Pathogen[ P0C214] interacts with 6 human  
partners:{Q6IA86;Q0PNE2;Q8TE02;Q9H9T3;Q96EB1;O95163}

2966 Pathogen[ P03346] interacts with 6 human  
partners:{Q0PNE2;O95163;Q9H9T3;Q8TE02;Q6IA86;Q96EB1}

2967 Pathogen[ Q85601] interacts with 6 human  
partners:{Q9H9T3;Q0PNE2;Q8TE02;Q96EB1;Q6IA86;O95163}

2968 Pathogen[ P14079] interacts with 6 human  
partners:{Q6IA86;O95163;Q96EB1;Q8TE02;Q9H9T3;Q0PNE2}

2969 Pathogen[ P03383] interacts with 6 human  
partners:{O95163;Q0PNE2;Q96EB1;Q8TE02;Q6IA86;Q9H9T3}

2970 Pathogen[ P03410] interacts with 6 human  
partners:{Q0PNE2;Q9H9T3;Q96EB1;O95163;Q8TE02;Q6IA86}

2971 Pathogen[ P14075] interacts with 6 human  
partners:{Q96EB1;Q6IA86;Q8TE02;O95163;Q9H9T3;Q0PNE2}

2972 Pathogen[ P0C206] interacts with 6 human  
partners:{Q9H9T3;Q6IA86;O95163;Q0PNE2;Q8TE02;Q96EB1}

2973 Pathogen[ P03363] interacts with 6 human  
partners:{Q6IA86;Q8TE02;Q96EB1;O95163;Q0PNE2;Q9H9T3}

2974 [Cluster 271]GO:0030663+C cellular\_component [name] COPI coated vesicle membrane [def] "The lipid bilayer surrounding a COPI-coated vesicle." [GOC

2975 Pathogen[ Q2Q067] interacts with 8 human  
partners:{O14579;Q9P299;P48444;P61923;Q9UBF2;P53618;P35606;Q9Y678}

2976 Pathogen[ P0C214] interacts with 8 human  
partners:{P61923;Q9P299;O14579;P53618;P35606;P48444;Q9UBF2;Q9Y678}

2977 Pathogen[ P03346] interacts with 9 human  
partners:{Q9Y678;P53618;Q9P299;O14579;P48444;Q9UBF2;P61923;P35606;Q15363}

2978 Pathogen[ Q85601] interacts with 8 human  
partners:{P48444;O14579;Q9P299;P61923;Q9UBF2;Q9Y678;P53618;P35606}

2979 Pathogen[ P14079] interacts with 8 human  
partners:{P61923;P35606;Q9Y678;Q15363;Q9P299;Q9UBF2;P48444;O14579}

2980 Pathogen[ P03383] interacts with 4 human partners:{O14579;P53618;Q9Y678;Q9UBF2}

2981 Pathogen[ P03410] interacts with 9 human  
partners:{Q9P299;P48444;P35606;O14579;Q9Y678;Q15363;P53618;P61923;Q9UBF2}

2982 Pathogen[ P14075] interacts with 4 human partners:{Q9UBF2;P53618;Q9Y678;O14579}

2983 Pathogen[ P0C206] interacts with 9 human  
partners:{O14579;Q9Y678;P53618;Q9P299;P35606;P48444;Q9UBF2;Q15363;P61923}

2984 Pathogen[ P03363] interacts with 8 human  
partners:{P48444;Q9Y678;O14579;P53618;Q9P299;P61923;P35606;Q9UBF2}

2985 [Cluster 272]GO:0000776+C cellular\_component [name] kinetochore [def] "A multisubunit complex that is located at the centromeric region of DNA and provides an attachment point for the spindle microtubules." [GOC

2986 Pathogen[ Q2Q067] interacts with 75 human  
partners:{P49454;Q96EE3;Q96H22;P52948;Q71F23;Q12769;Q12888;Q13352;Q7Z460;O14974;P55735;Q96R06;Q6P1K2;Q9HBM1;O75935;Q5EE01;Q8WYP5;Q9H3R5;Q5FBB7;P49450;Q13257;Q8N2Z9;A8MT69;Q03188;Q9NXR1;Q96ST3;O43684;Q8NBT2;Q8NFH4;P12270;Q9NQS7;Q14203;Q9Y448;O43264;O14980;Q7Z7K6;Q92674;Q9BW27;Q96BT3;Q13561;Q92831;Q9BZD4;Q9NSP4;O75177;P36873;P55854;P50748;Q96JM3;Q96BK5;Q9H410;Q8NFH3;O75122;Q8IX90;Q8NG31;Q9Y6D9;Q86U86;P57740;Q96BD8;Q9H900;Q96IY1;Q96IK1;Q8WUM0;Q14683;Q9BU64;O95229;P45973;O14777;Q562F6;P51808;Q9H081;Q8WVK7;Q9Y2Z0;O15392;Q96EA4;O14576}

2987 Pathogen[ P0C214] interacts with 73 human  
partners:{Q9H081;O43684;Q96BK5;P55735;Q13257;O75935;Q96BT3;O43264;Q14203;Q96EA4;Q96R06;P57740;Q5EE01;Q8WYP5;P50748;O95229;Q96EE3;Q8NBT2;P51808;Q6P1K2;P46060;Q562F6;P55854;P49450;O14974;Q8N2Z9;Q03188;O75122;Q92674;O14980;Q9BW27;Q96BD8;Q9HBM1;Q9Y2Z0;Q13352;Q8NFH3;Q7Z7K6;Q9H410;O15392;Q9H3R5;Q8IX90;Q14683;Q92831;Q8NG31;O14576;Q86U86;Q7Z460;P36873;Q9H900;Q5FBB7;Q96ST3;Q96JM3;Q9NQS7;P45973;Q12888;Q9NSP4;P12270;Q71F23;Q8NFH4;Q9NXR1;Q96IY1;P49454;Q9Y448;Q13561;O75177;Q9BZD4;Q8WUM0;Q9Y6D9;P52948;Q9BU64;Q12769;Q8WVK7;O14777}

2988 Pathogen[ P03346] interacts with 81 human  
partners:{Q12888;Q9Y6D9;Q8N2Z9;Q96ST3;P55735;Q5FBB7;Q8NFH4;Q8WUM0;P45973;O95229;Q9Y2Z0;P12270;O14576;Q12769;O15392;O43684;Q96EE3;Q9BS16;Q92674;A8MT69;O75935;Q96R06;P51808;P57740;Q5EE01;Q8WYP5;Q14141;O43264;Q9NXR1;P55854;Q96IY1;Q86U86;Q92831;Q96IK1;Q14203;Q8NFH3;O14777;Q9BW27;O14980;Q96EA4;P46060;Q14683;Q15019;P36873;Q96BK5;Q9NQS7;Q562F6;Q7Z7K6;Q9H081;Q8NBT2;Q9HBM1;Q96JM3;Q9H410;P30622;O75122;Q9BU64;Q03188;Q8IX90;P50748;Q9H7Z6;P49450;Q9Y448;Q7Z460;Q8NG31;Q9H3R5;O14974;Q9NSP4;Q96H22;Q6P1K2;Q96BD8;Q9BZD4;Q96BT3;Q71F23;Q13352;Q8WVK7;Q13257;P49454;Q9H900;O75177;Q13561;P52948}

2989 Pathogen[ Q85601] interacts with 78 human  
partners:{Q8NBT2;P49454;Q96JM3;O95229;Q7Z7K6;Q8NFH4;Q8NFH3;Q03188;P51808;Q9H900;P46060;Q96EE3;Q9Y2Z0;Q9NQS7;Q12769;Q9H081;Q96IK1;Q96BT3;O75935;P57740;Q5EE01;Q8WYP5;P30622}

- ;Q8WUM0;Q71F23;O43264;Q9H7Z6;Q8NG31;O15392;Q92831;Q9H3R5;Q14203;Q96EA4;P12270;Q96R06;Q12888;Q13257;Q92674;O75122;Q9BW27;Q13352;Q9Y448;Q562F6;Q9BU64;Q96BK5;Q14683;Q9BZD4;P45973;P36873;Q96BD8;Q9Y6D9;A8MT69;P55735;P52948;O14576;P49450;Q8N2Z9;Q9H410;P55854;O14980;Q8IX90;P50748;Q8WVK7;Q96IY1;O14974;Q7Z460;Q86U86;Q9NXR1;Q6P1K2;Q9GZM8;O14777;O43684;Q9HBM1;Q5FBB7;P51955;O75177;Q13561;Q96ST3}
- 2990 Pathogen[ P14079] interacts with 78 human partners: {Q96IY1;Q03188;Q9BW27;Q5EE01;Q7Z460;P51808;Q8IX90;Q96BT3;Q9HBM1;Q96R06;P36873;P57740;Q96ST3;O95229;Q8NBT2;O14974;Q9BZD4;Q86U86;O15392;P46060;Q8NG31;Q9H900;Q9Y448;Q5FBB7;Q9H410;P45973;Q96IK1;Q9NSP4;Q99661;Q71F23;Q8WUM0;P51955;P12270;Q8WYP5;Q8N2Z9;Q13257;Q96EA4;Q562F6;Q8WVK7;P49450;Q96JM3;Q96H22;Q8NFB3;P55854;Q96EE3;Q13561;O43264;A8MT69;Q9H3R5;Q9GZM8;Q8NFB4;Q9NQS7;Q92674;Q96BK5;P55735;P49454;Q9BU64;Q9NXR1;P50748;Q12888;Q12769;Q96BD8;O75122;Q14683;Q13352;O75935;Q9Y2Z0;O14777;O75177;Q14203;O43684;Q7Z7K6;P30622;Q6P1K2;P52948;Q9H081;Q8WVJ2}
- 2991 Pathogen[ P03383] interacts with 65 human partners: {Q14683;Q86U86;Q96EE3;Q13257;Q8WUM0;Q9NQS7;Q03188;P49454;Q92831;Q12888;Q8N2Z9;Q8NFB4;Q7Z460;Q96BD8;Q8NBT2;P51808;Q9H900;P55735;O43264;P12270;Q5FBB7;P52948;Q14203;P57740;Q5EE01;Q8WYP5;Q96BK5;Q96H22;O75177;Q7Z7K6;Q13352;Q96EA4;Q96BT3;Q12769;Q96R06;P36873;Q71F23;O95229;Q9BW27;P45973;Q9BU64;O14980;O43684;P55854;Q9BZD4;Q8WVK7;A8MT69;Q562F6;O75935;Q9HBM1;Q9H410;Q9H081;Q8IX90;Q96IY1;Q8NG31;Q6P1K2;Q9Y448;Q96ST3;Q13561;O14777;Q92674;Q9H3R5;Q8NFB3;Q9Y6D9;P50748}
- 2992 Pathogen[ P03410] interacts with 79 human partners: {Q03188;Q9Y6G9;Q92831;Q8IX90;Q7Z460;O15392;Q9BW27;Q8WVJ2;P55854;P51808;Q9NSP4;Q9H3R5;O43684;Q96H22;P30622;Q96JM3;Q13561;Q9Y2Z0;Q9NXR1;Q9H410;Q8NG31;Q9GZM8;Q86U86;Q8NFB4;Q96BT3;P52948;P50748;P45973;Q562F6;Q92674;Q96R06;Q96ST3;O75177;Q5EE01;O43264;Q7Z7K6;P49454;Q96EA4;Q96IY1;O14576;Q9Y448;P12270;Q6P1K2;Q71F23;Q14683;Q9BZD4;O14974;Q8WVK7;P36873;Q9HBM1;Q96EE3;O75935;Q12888;Q8NBT2;P49450;Q5FBB7;Q8WUM0;A8MT69;Q9H900;O95229;Q9H081;Q96BK5;Q96BD8;P57740;P55735;Q12769;Q8WYP5;O75122;Q8NFB3;Q13352;P46060;O14980;O14777;Q14203;Q9BU64;Q8N2Z9;Q13257;Q9NQS7;Q96IK1}
- 2993 Pathogen[ P14075] interacts with 66 human partners: {A8MT69;Q96ST3;Q14683;Q9Y6D9;Q9H081;Q92831;Q562F6;Q9NQS7;Q96R06;Q92674;P51808;Q8WVK7;P57740;Q5EE01;Q8WYP5;Q7Z460;Q13561;Q96IY1;Q13257;Q96H22;O43684;P45973;Q96BD8;P12270;O14777;P55854;P55735;P36873;O95229;Q8N2Z9;Q96BK5;Q9H3R5;O14980;Q9BW27;Q9BU64;Q96EA4;O75935;Q86U86;Q96EE3;Q96BT3;Q5FBB7;Q9H410;Q8IX90;Q7Z7K6;Q8NFB3;Q9H900;P50748;Q12769;Q12888;Q9HBM1;Q6P1K2;Q14203;Q13352;Q8WUM0;O43264;Q03188;Q8NG31;P49454;Q96IK1;Q71F23;Q8NFB4;Q9Y448;Q8NBT2;Q9BZD4;P52948;O75177}
- 2994 Pathogen[ P0C206] interacts with 81 human partners: {Q96EE3;Q9HBM1;Q8WYP5;Q9Y2Z0;P45973;Q9NSP4;Q96ST3;O14576;Q9H900;Q15019;Q9Y6D9;P51955;Q9H081;O14777;O75177;Q9Y448;Q9BZD4;P55735;Q9H410;P57740;P49454;Q96BK5;P30622;Q86U86;Q13257;Q92831;Q9BU64;Q14141;Q9GZM8;Q8IX90;O14974;O75122;Q92674;Q8WUM0;Q5EE01;P46060;Q6P1K2;Q8NBT2;Q96BD8;Q9H3R5;Q12888;P55854;P49450;P51808;Q14683;Q96IY1;Q9Y6G9;Q7Z7K6;Q96BT3;Q13352;Q5FBB7;Q96JM3;O15392;Q96H22;Q13561;Q8NFB4;Q562F6;Q9NXR1;Q96EA4;Q8N2Z9;Q16181;Q12769;O43684;Q7Z460;Q9NQS7;Q14203;O75935;Q8NFB3;P36873;P50748;Q96IK1;Q71F23;O43264;Q8NG31;Q8WVK7;Q9BW27;A8MT69;Q03188;Q9H7Z6;P12270;O95229}
- 2995 Pathogen[ P03363] interacts with 74 human partners: {Q96EA4;Q9BZD4;P46060;Q96IK1;P49454;Q96IY1;Q6P1K2;Q7Z7K6;Q9Y6D9;P12270;Q9H081;P36873;Q92674;Q8NFB4;O95229;Q96BD8;Q96BK5;Q92831;Q8WYP5;Q13561;Q8NFB3;P45973;O14980;Q12769;O43264;Q8NBT2;Q8N2Z9;Q8WVK7;Q9H410;P50748;Q14807;Q8IX90;Q5FBB7;Q9H900;Q5EE01;Q8WUM0;Q96JM3;P30622;Q96R06;O43684;P49450;Q9NQS7;Q96ST3;Q9NSP4;O75935;Q9HBM1;Q7Z460;Q86U86;Q03188;Q8NG31;Q9Y2Z0;Q13257;Q71F23;P51808;O14974;P57740;Q96BT3;Q9H3R5;P52948;O14777;Q9Y448;Q562F6;Q9NXR1;Q14141;Q13352;P55735;Q14683;Q14203;O14576;Q9BW27;P55854;Q12888;O75177;A8MT69}
- 2996 [Cluster 273]GO:0010494+C cellular\_component [name] cytoplasmic stress granule [def] "A dense aggregation in the cytosol composed of proteins and RNAs that appear when the cell is under stress." [GOC]
- 2997 Pathogen[ Q2Q067] interacts with 14 human partners: {P05198;Q9NR56;P67809;O95793;P26196;Q13310;Q8ND56;Q9H9Z2;Q92499;Q8TB72;Q99700;P26651;P06730;P11940}
- 2998 Pathogen[ P0C214] interacts with 16 human partners: {Q13310;Q8TB72;P26196;Q8ND56;Q9NR56;P67809;P11940;Q9NZI8;Q99700;Q9H9Z2;P26651;Q92499;O95793;P05198;Q14011;P06730}
- 2999 Pathogen[ P03346] interacts with 17 human partners: {Q8ND56;P06730;Q14011;Q9NZI8;P11940;Q8TB72;O95793;Q9BWF3;Q92499;Q99700;P67809;P26196;Q13310;Q9H9Z2;P26651;Q9NR56;P05198}
- 3000 Pathogen[ Q85601] interacts with 14 human partners: {P06730;Q13310;O95793;Q9NR56;Q92499;P26651;P11940;Q8TB72;P67809;P26196;P05198;Q9H9Z2;Q99700;Q8ND56}
- 3001 Pathogen[ P14079] interacts with 15 human partners: {O95793;P06730;Q8ND56;P67809;Q99700;Q13310;P05198;Q14444;Q9NR56;Q9H9Z2;Q8TB72;P11940;P26196;Q92499;Q14011}
- 3002 Pathogen[ P03383] interacts with 13 human partners: {Q9H9Z2;Q99700;Q9NR56;Q8TB72;P26196;P11940;P06730;P05198;Q8ND56;P26651;Q13310;Q92499;P67809}
- 3003 Pathogen[ P03410] interacts with 14 human partners: {Q99700;P11940;P06730;Q9NR56;P26651;P67809;Q92499;Q14011;Q8ND56;O95793;Q9H9Z2;Q8TB72;Q13310;P05198}
- 3004 Pathogen[ P14075] interacts with 13 human

partners:{Q8TB72;P26196;P26651;Q9H9Z2;P06730;P05198;Q92499;P11940;Q13310;Q9NR56;P67809;Q99700;Q8ND56}  
 3005 Pathogen[ P0C206] interacts with 15 human  
 partners:{P67809;P26651;Q8ND56;Q9NR56;Q14011;P26196;Q8TB72;P06730;Q9H9Z2;P05198;Q13310;Q99700;Q95793;Q92499;P11940}  
 3006 Pathogen[ P03363] interacts with 17 human  
 partners:{Q8TB72;Q95793;P11940;Q9NR56;Q9BWF3;P05198;Q9NZI8;Q13310;Q92499;Q9H9Z2;Q14011;P26196;Q8ND56;P26651;Q99700;P06730;P67809}  
 3007 [Cluster 274]GO:0000346+C cellular\_component [name] transcription export complex [def] "The transcription export (TREX) complex couples transcription elongation by RNA polymerase II to mRNA export. The complex associates with the polymerase and travels with it along the length of the transcribed gene. TREX is composed of the THO transcription elongation complex as well as other proteins that couple THO to mRNA export proteins. The TREX complex is known to be found in a wide range of eukaryotes, including *S. cerevisiae* and metazoans." [GOC  
 3008 Pathogen[ Q2Q067] interacts with 6 human  
 partners:{Q96FV9;Q13838;Q6I9Y2;Q13769;Q86V81;Q8NI27}  
 3009 Pathogen[ P0C214] interacts with 6 human  
 partners:{Q96FV9;Q86V81;Q13769;Q8NI27;Q13838;Q6I9Y2}  
 3010 Pathogen[ P03346] interacts with 7 human  
 partners:{Q96FV9;Q13769;Q86V81;Q96J01;Q13838;Q8NI27;Q6I9Y2}  
 3011 Pathogen[ Q85601] interacts with 6 human  
 partners:{Q13769;Q86V81;Q96FV9;Q13838;Q8NI27;Q6I9Y2}  
 3012 Pathogen[ P14079] interacts with 6 human  
 partners:{Q8NI27;Q13838;Q96FV9;Q13769;Q6I9Y2;Q86V81}  
 3013 Pathogen[ P03383] interacts with 6 human  
 partners:{Q8NI27;Q13769;Q13838;Q96FV9;Q86V81;Q6I9Y2}  
 3014 Pathogen[ P03410] interacts with 6 human  
 partners:{Q13838;Q8NI27;Q96FV9;Q86V81;Q13769;Q6I9Y2}  
 3015 Pathogen[ P14075] interacts with 6 human  
 partners:{Q86V81;Q13769;Q8NI27;Q6I9Y2;Q96FV9;Q13838}  
 3016 Pathogen[ P0C206] interacts with 6 human  
 partners:{Q8NI27;Q13769;Q96FV9;Q13838;Q6I9Y2;Q86V81}  
 3017 Pathogen[ P03363] interacts with 7 human  
 partners:{Q96J01;Q13769;Q8NI27;Q96FV9;Q86V81;Q13838;Q6I9Y2}  
 3018 [Cluster 275]GO:0001533+C cellular\_component [name] cornified envelope [def] "An insoluble protein structure formed under the plasma membrane of cornifying epithelial cells." [PMID  
 3019 Pathogen[ Q2Q067] interacts with 8 human  
 partners:{P35321;P23490;Q5T752;P15924;P22528;P22531;Q674X7;P07476}  
 3020 Pathogen[ P0C214] interacts with 8 human  
 partners:{P35321;Q5T752;P07476;P22735;P15924;P23490;Q674X7;P22531}  
 3021 Pathogen[ P03346] interacts with 16 human  
 partners:{P15924;P35321;P35325;Q95171;P35326;P07476;Q9BYE4;Q9BYD5;Q96RM1;P22531;Q5T752;P23490;P22532;P22528;Q674X7;P22735}  
 3022 Pathogen[ Q85601] interacts with 6 human  
 partners:{P35321;P15924;P22531;Q674X7;P23490;Q95171}  
 3023 Pathogen[ P14079] interacts with 18 human  
 partners:{P04083;P22528;P22531;P35326;P22735;P07476;P15924;Q9BYE4;Q96RM1;Q9BYD5;Q5T752;P35321;P35325;P23490;Q95171;Q92817;P22532;Q674X7}  
 3024 Pathogen[ P03383] interacts with 11 human  
 partners:{P23490;P15924;Q9BYE4;P35321;Q5T752;Q96RM1;P22531;P07476;P22532;P22528;P35325}  
 3025 Pathogen[ P03410] interacts with 18 human  
 partners:{P23490;P15924;P22531;P35325;P22528;Q9BYE4;P35321;Q95171;Q674X7;Q96RM1;P22532;P35326;Q92817;Q15517;Q9BYD5;Q5T752;P07476;P22735}  
 3026 Pathogen[ P14075] interacts with 11 human  
 partners:{P35321;P22532;P35325;P23490;Q5T752;Q96RM1;P22531;P22528;Q9BYE4;P07476;P15924}  
 3027 Pathogen[ P0C206] interacts with 16 human  
 partners:{Q9BYE4;P35325;P22531;Q96RM1;Q9BYD5;P35326;P23490;Q5T752;P35321;P15924;P22532;Q674X7;P22735;P07476;Q95171;P22528}  
 3028 Pathogen[ P03363] interacts with 16 human  
 partners:{P22531;P22532;P35321;Q9BYE4;P23490;P35326;P15924;Q96RM1;Q5T752;Q9BYD5;P35325;P22528;Q674X7;Q95171;P07476;Q92817}  
 3029 [Cluster 276]GO:0031461+C cellular\_component [name] cullin-RING ubiquitin ligase complex [def] "Any ubiquitin ligase complex in which the catalytic core consists of a member of the cullin family and a RING domain protein\_ the core is associated with one or more additional proteins that confer substrate specificity." [PMID  
 3030 Pathogen[ Q2Q067] interacts with 8 human  
 partners:{Q93034;Q13616;Q13618;Q13620;Q13619;Q9UJX6;Q13617;Q14999}  
 3031 Pathogen[ P0C214] interacts with 9 human  
 partners:{Q9UJX6;Q13619;Q13617;Q13620;Q86Y37;Q13618;Q93034;Q14999;Q13616}  
 3032 Pathogen[ P03346] interacts with 10 human  
 partners:{Q13616;Q13618;Q93034;Q13620;Q9UJX6;Q8IWT3;Q86Y37;Q13619;Q14999;Q13617}  
 3033 Pathogen[ Q85601] interacts with 9 human

3034 partners:{Q9UJX6;Q13616;Q86Y37;Q14999;Q13620;Q13618;Q13619;Q93034;Q13617}  
Pathogen[ P14079] interacts with 9 human

3035 partners:{Q13620;Q13618;Q93034;Q9UJX6;Q13617;Q13616;Q86Y37;Q14999;Q13619}  
Pathogen[ P03383] interacts with 7 human

3036 partners:{Q13616;Q9UJX6;Q93034;Q13618;Q13617;Q14999;Q13620}  
Pathogen[ P03410] interacts with 8 human

3037 partners:{Q13620;Q13618;Q86Y37;Q13616;Q13619;Q13617;Q93034;Q9UJX6}  
Pathogen[ P14075] interacts with 7 human

3038 partners:{Q93034;Q13618;Q13620;Q9UJX6;Q14999;Q13616;Q13617}  
Pathogen[ P0C206] interacts with 10 human

3039 partners:{Q86Y37;Q13616;Q13620;Q14999;Q13619;Q13617;Q13618;Q9UJX6;Q93034;Q8IWT3}  
Pathogen[ P03363] interacts with 9 human

3040 partners:{Q13618;Q13617;Q9UJX6;Q13619;Q13616;Q14999;Q13620;Q8IWT3;Q93034}  
[Cluster 277]GO:0032839+C cellular\_component [name] dendrite cytoplasm [def] "All of the contents of a dendrite, excluding the surrounding plasma membrane." [GOC

3041 Pathogen[ Q2Q067] interacts with 1 human partners:{P78352}  
3042 Pathogen[ P0C214] interacts with 1 human partners:{P78352}  
3043 Pathogen[ P03346] interacts with 2 human partners:{P78352;Q9H0R8}  
3044 Pathogen[ Q85601] interacts with 2 human partners:{Q9H0R8;P78352}  
3045 Pathogen[ P14079] interacts with 1 human partners:{Q9H0R8}  
3046 Pathogen[ P03383] interacts with 1 human partners:{P78352}  
3047 Pathogen[ P03410] interacts with 2 human partners:{Q9H0R8;P78352}  
3048 Pathogen[ P14075] interacts with 1 human partners:{P78352}  
3049 Pathogen[ P0C206] interacts with 2 human partners:{P78352;Q9H0R8}  
3050 Pathogen[ P03363] interacts with 2 human partners:{P78352;Q9H0R8}

3051 [Cluster 278]GO:0030136+C cellular\_component [name] clathrin-coated vesicle [def] "A vesicle with a coat formed of clathrin connected to the membrane via one of the clathrin adaptor complexes." [GOC

3052 Pathogen[ Q2Q067] interacts with 13 human  
partners:{O43747;O00291;Q8WXE9;P53675;Q9UJY4;O43752;Q6ICB4;Q00610;O14641;Q14677;P09496;P14672;Q9P0V3}

3053 Pathogen[ P0C214] interacts with 14 human  
partners:{Q6ICB4;Q9H201;Q9P0V3;P53675;Q9UJY4;O14641;O43752;Q9BQI5;O43747;Q8WXE9;P09496;P14672;O00291;Q14677}

3054 Pathogen[ P03346] interacts with 22 human  
partners:{Q6P3S1;O43752;O43747;Q8IV53;O00291;Q6P3W7;P09496;Q8WXE9;Q8N4B1;O14641;Q9P0V3;P42566;Q9UJY4;P53675;Q9H201;Q13492;Q6ICB4;Q9BQI5;P14672;Q14677;Q00610;O75146}

3055 Pathogen[ Q85601] interacts with 14 human  
partners:{P53675;Q00610;P09496;Q9UJY4;Q8WXE9;O43747;O43752;Q14677;O14641;Q6ICB4;Q9H201;O00291;Q9P0V3;P14672}

3056 Pathogen[ P14079] interacts with 22 human  
partners:{Q13492;Q6P3S1;O00291;O75146;Q00610;Q9UJY4;Q13021;O14641;P14672;Q14677;P42566;Q9P0V3;Q8IV53;Q9BQI5;Q8N4B1;Q6ICB4;Q8WXE9;O43747;O43752;P53675;P09496;Q9H201}

3057 Pathogen[ P03383] interacts with 12 human  
partners:{Q9UJY4;Q00610;Q8WXE9;P53675;O00291;O14641;O43747;Q9BQI5;Q14677;Q9P0V3;O43752;P14672}

3058 Pathogen[ P03410] interacts with 24 human  
partners:{Q00610;P09496;Q8N4B1;Q0JRZ9;O43747;Q9P0V3;O00291;O75146;Q8WXE9;Q13492;Q14677;Q15049;Q9H201;Q6P3S1;Q6ICB4;Q9BQI5;O43752;P53675;Q8IV53;P42566;Q9UJY4;Q5MNZ9;Q13021;O14641}

3059 Pathogen[ P14075] interacts with 13 human  
partners:{Q9BQI5;Q9P0V3;Q9UJY4;P09496;O43752;P53675;O00291;O14641;Q8WXE9;Q14677;O43747;P14672;Q00610}

3060 Pathogen[ P0C206] interacts with 20 human  
partners:{P53675;Q9H201;O00291;O43747;O43752;Q8WXE9;Q6ICB4;Q9UJY4;Q00610;Q13021;Q6P3W7;P09496;Q9BQI5;Q14677;P42566;Q9P0V3;Q8N4B1;P14672;Q8IV53;Q6P3S1}

3061 Pathogen[ P03363] interacts with 18 human  
partners:{Q9H201;Q8WXE9;Q6ICB4;Q9P0V3;O43747;Q9UJY4;Q00610;Q8N4B1;Q14677;Q6P3S1;P14672;O75146;Q9BQI5;O14641;O43752;P53675;Q8IV53;O00291}

3062 [Cluster 279]GO:0005720+C cellular\_component [name] nuclear heterochromatin [def] "A condensed form of chromatin, occurring in the nucleus during interphase, that stains strongly with basophilic dyes. The DNA of heterochromatin is typically replicated at a later stage in the cell-division cycle than euchromatin." [ISBN

3063 Pathogen[ Q2Q067] interacts with 13 human  
partners:{Q13185;Q9Y6K1;Q9UJW3;Q9UBC3;Q99549;P17987;P46100;O75475;Q96PU4;Q01826;P45973;Q9H5I1;P83916}

3064 Pathogen[ P0C214] interacts with 12 human  
partners:{Q9H5I1;P83916;Q96PU4;Q9Y6K1;Q99549;P46100;Q13185;O75475;Q01826;P45973;P17987;Q9UJW3}

3065 Pathogen[ P03346] interacts with 16 human  
partners:{Q13263;Q9Y6K1;P45973;P46100;Q9NU63;O75475;Q9UBC3;Q99549;P83916;Q96PU4;Q9H5I1;Q9NQ94;Q13185;Q01826;Q9UJW3;P17987}

3066 Pathogen[ Q85601] interacts with 15 human  
partners:{Q9H5I1;P83916;Q9UJW3;Q96PU4;Q99549;P17987;P13263;P45973;Q9Y6K1;Q01826;Q13185;O75475;Q9NU63;P46100;Q9UBC3}

3067 Pathogen[ P14079] interacts with 14 human

partners:{Q9Y6K1;Q99549;O75475;Q01826;Q9NU63;Q9NQ94;Q9H5I1;P46100;P45973;Q13185;Q9UBC3;Q9UJW3;P17987;P83916}  
 3068 Pathogen[ P03383] interacts with 11 human  
 partners:{Q9UJW3;Q01826;Q96PU4;P83916;P46100;Q99549;Q13185;P45973;Q9Y6K1;O75475;Q9H5I1}

3069 Pathogen[ P03410] interacts with 13 human  
 partners:{P17987;Q99549;P45973;Q9H5I1;Q01826;P46100;Q13185;Q9UBC3;P83916;Q9UJW3;O75475;Q9Y6K1;Q9NU63}

3070 Pathogen[ P14075] interacts with 11 human  
 partners:{Q9Y6K1;O75475;Q96PU4;Q9UJW3;P45973;Q01826;P46100;Q9H5I1;Q13185;Q99549;P83916}

3071 Pathogen[ P0C206] interacts with 15 human  
 partners:{P45973;Q9Y6K1;Q13263;P46100;P17987;O75475;P83916;Q9H5I1;Q13185;Q01826;Q9UBC3;Q99549;Q9NU63;Q96PU4;Q9UJW3}

3072 Pathogen[ P03363] interacts with 14 human  
 partners:{P83916;Q9H5I1;P45973;Q01826;O75475;Q9Y6K1;Q13185;P46100;Q99549;P17987;Q9UJW3;Q96PU4;Q9UBC3;Q9NQ94}

3073 [Cluster 280]GO:0005885+C cellular\_component [name] Arp2/3 protein complex [def] "A stable protein complex that contains two actin-related proteins, Arp2 and Arp3, and five novel proteins (ARPC1-5), and functions in the nucleation of branched actin filaments." [GOC]

3074 Pathogen[ Q2Q067] interacts with 2 human partners:{O15511;P59998}  
 3075 Pathogen[ P0C214] interacts with 3 human partners:{P59998;O15144;O15511}  
 3076 Pathogen[ P03346] interacts with 4 human partners:{O15511;O15144;P59998;O15145}  
 3077 Pathogen[ Q85601] interacts with 3 human partners:{O15511;P59998;O15144}  
 3078 Pathogen[ P14079] interacts with 5 human  
 partners:{O15145;O15511;P61158;P59998;O15144}

3079 Pathogen[ P03383] interacts with 2 human partners:{O15511;P59998}  
 3080 Pathogen[ P03410] interacts with 4 human partners:{O15511;O15145;P59998;O15144}  
 3081 Pathogen[ P14075] interacts with 2 human partners:{O15511;P59998}  
 3082 Pathogen[ P0C206] interacts with 4 human partners:{O15511;P59998;O15145;O15144}  
 3083 Pathogen[ P03363] interacts with 5 human  
 partners:{O15144;P59998;O15143;O15145;O15511}

3084 [Cluster 281]GO:0005638+C cellular\_component [name] lamin filament [def] "Any of a group of intermediate-filament proteins that form the fibrous matrix on the inner surface of the nuclear envelope. They are classified as lamins A, B and C." [ISBN]

3085 Pathogen[ Q2Q067] interacts with 4 human partners:{P02545;P20700;P56537;Q9UHQ1}  
 3086 Pathogen[ P0C214] interacts with 4 human partners:{P20700;Q9UHQ1;P02545;P56537}  
 3087 Pathogen[ P03346] interacts with 4 human partners:{P20700;P56537;P02545;Q9UHQ1}  
 3088 Pathogen[ Q85601] interacts with 4 human partners:{P20700;P02545;P56537;Q9UHQ1}  
 3089 Pathogen[ P14079] interacts with 4 human partners:{Q9UHQ1;P56537;P20700;P02545}  
 3090 Pathogen[ P03383] interacts with 4 human partners:{P02545;P56537;Q9UHQ1;P20700}  
 3091 Pathogen[ P03410] interacts with 4 human partners:{P20700;Q9UHQ1;P02545;P56537}  
 3092 Pathogen[ P14075] interacts with 4 human partners:{P56537;P20700;P02545;Q9UHQ1}  
 3093 Pathogen[ P0C206] interacts with 4 human partners:{Q9UHQ1;P56537;P02545;P20700}  
 3094 Pathogen[ P03363] interacts with 4 human partners:{P02545;P20700;Q9UHQ1;P56537}

3095 [Cluster 282]GO:0019861+C cellular\_component [name] flagellum [def] "Long whiplike or feathery structures borne either singly or in groups by the motile cells of many bacteria and unicellular eukaryotes and by the motile male gametes of many eukaryotic organisms, which propel the cell through a liquid medium." [SP\_KW]

3096 Pathogen[ Q2Q067] interacts with 5 human  
 partners:{Q8WW24;Q5BJF6;O14556;P00338;Q6Q759}

3097 Pathogen[ P0C214] interacts with 7 human  
 partners:{Q8WW24;O14556;P14618;Q96KC9;P09622;Q5BJF6;Q6Q759}

3098 Pathogen[ P03346] interacts with 8 human  
 partners:{Q9UIF3;O14556;Q8N0X2;Q9Y4P9;Q5BJF6;P00338;Q6Q759;Q8WW24}

3099 Pathogen[ Q85601] interacts with 6 human  
 partners:{Q6Q759;Q5BJF6;Q8WW24;O14556;P14618;P00338}

3100 Pathogen[ P14079] interacts with 13 human  
 partners:{Q9Y4P9;Q5JQC9;P00338;Q8N0X2;Q6Q759;O75952;Q5BJF6;Q5H9T9;Q8IW40;Q8WW24;Q9UIF3;Q9BZX4;Q96KC9}

3101 Pathogen[ P03383] interacts with 6 human  
 partners:{P00338;O14556;Q8WW24;Q5BJF6;Q6Q759;Q9Y4P9}

3102 Pathogen[ P03410] interacts with 14 human  
 partners:{Q96KC9;Q6Q759;O14556;Q9Y4P9;Q8N0X2;Q5JQC9;Q9BZX4;Q9UIF3;O75952;Q9NPE6;P00338;Q5BJF6;Q8IW40;Q5H9T9}

3103 Pathogen[ P14075] interacts with 6 human  
 partners:{Q6Q759;Q96KC9;Q5BJF6;Q9Y4P9;P00338;O14556}

3104 Pathogen[ P0C206] interacts with 13 human  
 partners:{Q96KC9;O75952;Q5BJF6;Q5JQC9;Q9UIF3;Q9Y4P9;Q5H9T9;O14556;Q6Q759;P00338;Q8IW40;P14618;Q8WW24}

3105 Pathogen[ P03363] interacts with 9 human  
 partners:{Q5BJF6;Q8N0X2;Q9Y4P9;Q8IYM1;Q8IW40;Q9UIF3;O14556;Q6Q759;Q8WW24}

3106 [Cluster 283]GO:0016023+C cellular\_component [name] cytoplasmic membrane-bounded vesicle [def] "A membrane-bounded vesicle found in the cytoplasm of the cell." [GOC]

3107 Pathogen[ Q2Q067] interacts with 22 human

3108 partners:{Q9NQG7;Q9H3C7;Q96N21;O43516;P53990;Q5VYK3;P52594;O00401;Q14457;Q8TCI5;Q96LB3;Q9H9C1;Q9BPZ7;O14641;Q9UKJ5;Q96CV9;P63000;O00165;Q9BVN2;P09496;Q15276;Q9NX95}  
Pathogen[ P0C214] interacts with 25 human

3109 partners:{Q14457;Q9BPZ7;Q9NQG7;P53990;P63000;Q9H4I8;Q9UKJ5;Q96N21;Q9UM54;Q5VYK3;Q8TCI5;Q9H3C7;O43516;Q8IVI9;O00165;O14641;Q9NX95;Q96CV9;Q9BVN2;O00401;P09496;P52594;Q9H9C1;Q96LB3;O15524}  
Pathogen[ P03346] interacts with 38 human

3110 partners:{Q9NQG7;O15524;Q96N21;O14908;Q9H2H0;Q15036;O43516;Q9H6Q3;Q8IVI9;Q9BPZ7;Q9Y6D5;Q9H3S7;Q9NX95;Q9NVA1;Q14457;Q9UKJ5;P09496;Q9H4I8;Q96CV9;O14641;P52594;Q5VYK3;Q6Q0C0;Q96LB3;O00165;Q969F2;P10768;Q9H9C1;Q8TCI5;Q86YS3;Q9BVN2;P54257;O00401;Q9H3C7;P63000;Q9BTT0;Q15276;P53990}  
Pathogen[ Q85601] interacts with 29 human

3111 partners:{Q14457;Q9NQG7;Q5VYK3;O00401;Q96CV9;Q96LB3;P09496;P10768;O00165;Q86YS3;Q15036;Q9BPZ7;Q9H3C7;P63000;Q9BVN2;Q9BTT0;P52594;Q9H9C1;Q8TCI5;O43516;Q9H6Q3;O14641;P53990;Q9UKJ5;Q96N21;Q8IVI9;Q9UM54;Q9NX95;Q6Q0C0}  
Pathogen[ P14079] interacts with 39 human

3112 partners:{Q9NQG7;O43516;Q15036;P54257;Q9BVN2;Q9NX95;Q9H9C1;Q9UKJ5;Q13021;O75781;O14641;O00165;Q9Y6D5;Q15276;Q92902;P52594;Q86YS3;Q9UM54;Q9H3C7;Q5VYK3;Q969N2;Q8IVI9;Q9BTT0;P20930;Q53FP2;Q5VXU3;Q8TCI5;O43612;Q9H6Q3;Q9NVA1;Q96LB3;Q9BPZ7;Q14457;O14908;Q8NA61;Q96CV9;P53990;P09496;O00401}  
Pathogen[ P03383] interacts with 21 human

3113 partners:{Q14457;Q9NQG7;Q96N21;P53990;Q5VYK3;Q9BPZ7;Q9NX95;Q9H9C1;P63000;O00165;O43516;Q8TCI5;O00401;O14641;Q96LB3;Q9UKJ5;Q96CV9;Q9H3C7;P52594;Q15276;Q9BVN2}  
Pathogen[ P03410] interacts with 44 human

3114 partners:{Q9BVN2;Q9NQG7;P09496;O75781;P10768;Q969F2;Q8NA61;P52594;O43612;P63000;Q92902;O43516;O00165;Q9BPZ7;P10645;Q14457;Q8IVI9;Q5VYK3;O00401;O14908;Q96N21;P53990;P20930;Q9UM54;Q86YS3;O60333;Q96CV9;Q9H3C7;Q15036;Q9UKJ5;Q9Y6D5;Q9BTT0;P54257;Q8TCI5;Q969N2;Q9H9C1;Q5VXU3;Q9NVA1;Q96LB3;Q9NX95;Q15276;Q13021;Q9H6Q3;O14641}  
Pathogen[ P14075] interacts with 23 human

3115 partners:{Q14457;Q9NQG7;Q9NVA1;Q96N21;P09496;P53990;Q9BVN2;Q9H9C1;O43516;Q9BPZ7;O00401;O14641;Q96LB3;Q8TCI5;P63000;P52594;Q96CV9;Q9H3C7;Q9NX95;Q9UKJ5;O00165;Q15276;Q5VYK3}  
Pathogen[ P0C206] interacts with 37 human

3116 partners:{Q8TCI5;Q9NQG7;Q9UM54;Q96N21;Q9H6Q3;Q969F2;O43516;Q5VXU3;Q96CV9;Q9H2H0;Q14457;Q9UKJ5;Q13021;O15524;P10768;Q9BTT0;Q15036;P09496;Q9NX95;Q9NVA1;O00165;Q9H4I8;P63000;Q9Y6D5;P53990;O14908;Q96LB3;Q9BPZ7;O00401;Q5VYK3;Q9H3C7;Q86YS3;Q9H9C1;Q8IVI9;Q6Q0C0;Q15276;Q9BVN2}  
Pathogen[ P03363] interacts with 32 human

3117 partners:{Q9NQG7;Q9H3S7;O14908;Q96CV9;Q8IVI9;Q9H9C1;O15524;Q14457;Q8TCI5;P10768;Q9H6Q3;Q96RU3;P63000;Q9H4I8;Q92902;P54257;Q9BVN2;O00401;Q9UKJ5;Q9H3C7;O43516;O60333;O00165;P52594;O14641;Q96LB3;Q96N21;Q15276;Q5VYK3;Q9BTT0;Q9NX95;P53990}  
[Cluster 284]GO:0002102+C cellular\_component [name] podosome [def] "An actin-rich adhesion structure characterized by formation upon cell substrate contact and localization at the substrate-attached part of the cell, contain an F-actin-rich core surrounded by a ring structure containing proteins such as vinculin and talin, and have a diameter of 0.5 mm." [PMID]

3118 Pathogen[ Q2Q067] interacts with 1 human partners:{O60711}

3119 Pathogen[ P0C214] interacts with 1 human partners:{O60711}

3120 Pathogen[ P03346] interacts with 2 human partners:{Q5TCZ1;O60711}

3121 Pathogen[ Q85601] interacts with 1 human partners:{O60711}

3122 Pathogen[ P14079] interacts with 4 human partners:{O95425;O60711;P61158;Q5TCZ1}

3123 Pathogen[ P03383] interacts with 1 human partners:{O60711}

3124 Pathogen[ P03410] interacts with 3 human partners:{O60711;O95425;Q5TCZ1}

3125 Pathogen[ P14075] interacts with 1 human partners:{O60711}

3126 Pathogen[ P0C206] interacts with 2 human partners:{Q5TCZ1;O60711}

3127 Pathogen[ P03363] interacts with 2 human partners:{Q5TCZ1;O60711}

3128 [Cluster 285]GO:0030864+C cellular\_component [name] cortical actin cytoskeleton [def] "The portion of the actin cytoskeleton, comprising filamentous actin and associated proteins, that lies just beneath the plasma membrane." [GOC]

3129 Pathogen[ Q2Q067] interacts with 3 human partners:{P23528;P54840;Q9H204}

3130 Pathogen[ P0C214] interacts with 2 human partners:{Q9H204;P54840}

3131 Pathogen[ P03346] interacts with 4 human partners:{Q14847;P54840;P23528;Q9H204}

3132 Pathogen[ Q85601] interacts with 3 human partners:{P54840;P23528;Q9H204}

3133 Pathogen[ P14079] interacts with 6 human partners:{Q9H204;Q01518;Q14847;P23528;Q9NS86;P54840}

3134 Pathogen[ P03383] interacts with 3 human partners:{Q9H204;P54840;P23528}

3135 Pathogen[ P03410] interacts with 6 human partners:{Q9NS86;P54840;Q9H204;Q14847;Q01518;P23528}

3136 Pathogen[ P14075] interacts with 3 human partners:{P54840;P23528;Q9H204}

3137 Pathogen[ P0C206] interacts with 4 human partners:{P54840;Q9H204;Q9NS86;P23528}

3138 Pathogen[ P03363] interacts with 4 human partners:{Q14847;P54840;P23528;Q9H204}

3139 [Cluster 286]GO:0071817+C cellular\_component [name] MMXD complex [def] "A protein complex that contains the proteins MMS19, MIP18 and XPD, localizes to mitotic spindle during mitosis, and is required for proper chromosome segregation." [GOC]

3140 Pathogen[ Q2Q067] interacts with 2 human partners:{Q96T76;Q9Y3D0}

3141 Pathogen[ P0C214] interacts with 2 human partners:{Q9Y3D0;Q96T76}

3142 Pathogen[ P03346] interacts with 2 human partners: {Q9Y3D0;Q96T76}

3143 Pathogen[ Q85601] interacts with 2 human partners: {Q96T76;Q9Y3D0}

3144 Pathogen[ P14079] interacts with 2 human partners: {Q9Y3D0;Q96T76}

3145 Pathogen[ P03383] interacts with 2 human partners: {Q96T76;Q9Y3D0}

3146 Pathogen[ P03410] interacts with 3 human partners: {Q96T76;P05141;Q9Y3D0}

3147 Pathogen[ P14075] interacts with 2 human partners: {Q96T76;Q9Y3D0}

3148 Pathogen[ P0C206] interacts with 2 human partners: {Q9Y3D0;Q96T76}

3149 Pathogen[ P03363] interacts with 2 human partners: {Q9Y3D0;Q96T76}

3150 [Cluster 287]GO:0097169+C cellular\_component [name] AIM2 inflammasome complex [def] "A protein complex that consists of AIM2, ASC, and caspase-1. AIM2 is a member of the HN-200 protein family that appears to be the sensor of cytosolic double-stranded DNA." [GOC]

3151 Pathogen[ Q2Q067] interacts with 1 human partners: {O14862}

3152 Pathogen[ P0C214] interacts with 1 human partners: {O14862}

3153 Pathogen[ P03346] interacts with 1 human partners: {O14862}

3154 Pathogen[ Q85601] interacts with 1 human partners: {O14862}

3155 Pathogen[ P14079] interacts with 1 human partners: {O14862}

3156 Pathogen[ P03383] interacts with 1 human partners: {O14862}

3157 Pathogen[ P03410] interacts with 1 human partners: {O14862}

3158 Pathogen[ P14075] interacts with 1 human partners: {O14862}

3159 Pathogen[ P0C206] interacts with 1 human partners: {O14862}

3160 Pathogen[ P03363] interacts with 1 human partners: {O14862}

3161 [Cluster 288]GO:0000151+C cellular\_component [name] ubiquitin ligase complex [def] "A protein complex that includes a ubiquitin-protein ligase and other proteins that may confer substrate specificity on the complex." [PMID]

3162 Pathogen[ Q2Q067] interacts with 32 human partners: {Q9HAU4;Q13356;Q8IYW8;Q9HC52;Q9UJT9;P51965;Q9Y3I1;Q86VP6;Q99728;Q9Y4X5;Q96PM5;P61088;P35226;Q99496;Q5VTR2;Q9UKT7;O76064;Q9Y3C5;O75150;Q8TCJ0;Q9UNE7;Q14139;Q96GG9;P68036;Q9NXX8;Q9UKA2;Q86XK2;Q13404;Q9Y2Z0;Q9UMS4;Q06587;Q9UKT5}

3163 Pathogen[ P0C214] interacts with 38 human partners: {Q9UKA1;P35226;Q8IYW8;Q9Y3I1;Q96PM5;Q9HAU4;Q99728;Q13404;Q9Y3C5;Q9NXX8;O00308;P51965;Q9UKT7;Q9H0M0;Q9UMS4;Q9UKA2;Q06587;Q9Y2Z0;Q14139;Q13356;Q99496;O94952;Q86XK2;O75150;Q95155;Q9Y4X5;Q5VTR2;Q8IYW5;Q8TCJ0;Q9UNE7;O76064;Q9UJT9;Q86VP6;Q9HC52;P61088;Q8IYW7;Q9UKT5;Q96GG9}

3164 Pathogen[ P03346] interacts with 39 human partners: {Q9UKA2;Q9UKT7;O76064;Q9HAU4;Q9Y2Z0;P68036;O75150;Q5VTR2;O95155;Q9UJT9;Q9Y3C5;Q99728;P35226;Q9UMS4;Q9HC52;Q96PM5;Q96GG9;Q86XK2;Q9NXX8;Q13404;P61088;Q9UKA1;Q8TCJ0;Q14139;P51965;Q9UKT5;Q9UNE7;Q6Q0C0;Q99496;Q13356;Q8IYW5;O94952;Q8IYW8;Q86VP6;Q9H0M0;Q9Y4X5;Q06587;Q9Y3I1;O00308}

3165 Pathogen[ Q85601] interacts with 38 human partners: {Q14139;Q9Y3I1;Q9HAU4;Q9Y2Z0;Q8IYW7;Q9Y3C5;Q9UMS4;Q9UKA2;Q96PM5;Q99728;Q86VP6;Q86XK2;O95155;P68036;Q13404;Q9UKA1;Q9UKT7;Q9NXX8;O76064;P51965;Q9UJT9;Q99496;Q13356;Q8IYW5;O75150;Q5VTR2;P35226;O94952;P61088;Q6Q0C0;Q8TCJ0;Q9UKT5;Q9UNE7;Q06587;Q9HC52;Q9Y4X5;Q96GG9;Q8IYW8}

3166 Pathogen[ P14079] interacts with 27 human partners: {Q96GG9;Q9UKT5;P51965;Q8IYW8;P68036;Q13404;Q9HC52;Q8TCJ0;Q86XK2;Q9HAU4;Q8IYW7;Q99496;Q9UMS4;Q13356;Q5VTR2;O94952;Q14139;P35226;Q9UKT7;Q9Y3C5;Q9UKA2;Q9UJT9;Q86VP6;Q9Y3I1;Q9Y2Z0;Q9NXX8;Q06587}

3167 Pathogen[ P03383] interacts with 24 human partners: {Q9Y3I1;Q13356;Q14139;P51965;Q8IYW8;Q96GG9;Q9HC52;Q06587;Q86XK2;Q9UKT7;P61088;Q9NXX8;Q13404;Q9UKT5;Q86VP6;Q96PM5;Q8TCJ0;Q99496;Q5VTR2;P68036;O94952;O75150;Q9UMS4;P35226}

3168 Pathogen[ P03410] interacts with 30 human partners: {Q8IYW8;Q9UKT7;Q99496;Q9Y2Z0;Q8TCJ0;P51965;Q9Y3I1;Q9NXX8;Q9UKT5;Q5VTR2;Q8IYW7;P68036;P61088;Q13356;Q9UNE7;O75150;Q9Y3C5;Q86XK2;Q9Y4X5;Q86VP6;Q9UKA2;Q9UMS4;Q06587;Q14139;Q13404;Q9UJT9;O94952;Q96GG9;P35226;Q9HC52}

3169 Pathogen[ P14075] interacts with 23 human partners: {Q5VTR2;Q96PM5;P68036;P61088;Q9UKT7;Q14139;P51965;Q9Y3I1;Q9UKT5;Q06587;Q96GG9;Q8TCJ0;O75150;Q86VP6;Q9HC52;Q9UMS4;Q99496;O94952;Q13404;P35226;Q86XK2;Q9NXX8;Q8IYW8}

3170 Pathogen[ P0C206] interacts with 39 human partners: {Q9UJT9;Q9UMS4;Q9Y2Z0;Q9HC52;Q8IYW5;O00308;Q9HAU4;P68036;Q86XK2;P35226;Q9UKA1;Q96GG9;Q9UKA2;O94952;O95155;Q8TCJ0;Q5VTR2;Q9Y4X5;P51965;Q9UKT7;P61088;Q8IYW7;Q9UNE7;Q14139;Q06587;Q99728;Q8IYW8;Q13356;Q9NXX8;Q96PM5;Q9Y3I1;Q13404;O76064;Q86VP6;Q9UKT5;O75150;Q9Y3C5;Q6Q0C0;Q99496}

3171 Pathogen[ P03363] interacts with 38 human partners: {Q14139;P51965;Q96GG9;Q9HAU4;Q9Y3C5;Q9UJT9;Q7Z569;Q9HC52;Q13356;O95155;Q5VTR2;Q99496;Q8IYW5;O75150;P61088;Q9UKA2;Q9Y3I1;O94952;Q9Y4X5;Q9UKT5;P35226;Q9UNE7;Q96PM5;Q9Y2Z0;Q9UKA1;Q9NXX8;Q86XK2;O00308;Q8TCJ0;Q86VP6;Q8IYW8;Q06587;Q99728;Q13404;Q9UMS4;Q9H0M0;Q9UKT7;P68036}

3172 [Cluster 289]GO:0035102+C cellular\_component [name] PRC1 complex [def] "An insect multiprotein complex containing the products of many of the Polycomb Group genes including Polycomb, Posterior sex combs, polyhomeotic and Sex comb on midleg. The Polycomb Group proteins are required for stable long-term maintenance of transcriptionally repressed states and the PRC1 complex directly antagonizes ATP-dependent remodeling of nucleosomal arrays." [GOC]



3173 Pathogen[ Q2Q067] interacts with 10 human partners: {Q9BYE7;Q8IXK0;Q9HC52;O00257;O95931;P35227;P35226;Q99496;Q14781;Q06587}

3174 Pathogen[ P0C214] interacts with 10 human partners: {P35226;P35227;Q8IXK0;O95931;Q06587;Q9BYE7;O00257;Q99496;Q14781;Q9HC52}

3175 Pathogen[ P03346] interacts with 11 human partners: {Q14781;P35226;Q9HC52;O95931;P35227;Q9BYE7;O00257;Q99496;P78364;Q8IXK0;Q06587}

3176 Pathogen[ Q85601] interacts with 11 human partners: {Q8IXK0;O95931;P78364;Q9BYE7;Q99496;P35226;O00257;Q06587;Q9HC52;P35227;Q14781}

3177 Pathogen[ P14079] interacts with 11 human partners: {Q9HC52;O95931;P78364;Q99496;O00257;Q14781;Q9BYE7;Q8IXK0;P35226;P35227;Q06587}

3178 Pathogen[ P03383] interacts with 9 human partners: {P35227;O00257;Q9HC52;Q06587;O95931;Q9BYE7;Q99496;P35226;Q14781}

3179 Pathogen[ P03410] interacts with 11 human partners: {Q8IXK0;Q99496;Q9BYE7;O95931;P35227;Q06587;O00257;Q14781;P35226;P78364;Q9HC52}

3180 Pathogen[ P14075] interacts with 9 human partners: {Q14781;O95931;Q9BYE7;O00257;Q06587;Q9HC52;Q99496;P35226;P35227}

3181 Pathogen[ P0C206] interacts with 11 human partners: {Q9HC52;P78364;P35226;Q14781;Q9BYE7;Q06587;O95931;Q8IXK0;O00257;Q99496;P35227}

3182 Pathogen[ P03363] interacts with 10 human partners: {P35227;Q14781;Q9HC52;Q99496;Q8IXK0;P35226;O95931;Q06587;O00257;Q9BYE7}

3183 [Cluster 290]GO:0005744+C cellular\_component [name] mitochondrial inner membrane presequence translocase complex [def] "The protein transport machinery of the mitochondrial inner membrane that contains three essential Tim proteins

3184 Pathogen[ Q2Q067] interacts with 4 human partners: {Q9BRJ2;P62072;O43615;O14925}

3185 Pathogen[ P0C214] interacts with 5 human partners: {P62072;O14925;O43615;Q3ZCQ8;Q9BRJ2}

3186 Pathogen[ P03346] interacts with 5 human partners: {O14925;O43615;P62072;Q3ZCQ8;Q9BRJ2}

3187 Pathogen[ Q85601] interacts with 5 human partners: {O14925;P62072;Q3ZCQ8;Q9BRJ2;O43615}

3188 Pathogen[ P14079] interacts with 7 human partners: {Q3ZCQ8;O43615;P62072;Q9BRJ2;O14925;Q99595;Q5SRD1}

3189 Pathogen[ P03383] interacts with 4 human partners: {P62072;Q9BRJ2;O14925;O43615}

3190 Pathogen[ P03410] interacts with 7 human partners: {Q5SRD1;P62072;O14925;Q99595;Q3ZCQ8;Q9BRJ2;O43615}

3191 Pathogen[ P14075] interacts with 4 human partners: {O14925;Q9BRJ2;P62072;O43615}

3192 Pathogen[ P0C206] interacts with 6 human partners: {Q5SRD1;Q9BRJ2;O43615;Q3ZCQ8;O14925;P62072}

3193 Pathogen[ P03363] interacts with 4 human partners: {O14925;Q3ZCQ8;Q9BRJ2;O43615}

3194 [Cluster 291]GO:0070274+C cellular\_component [name] RES complex [def] "A protein complex that is required for efficient splicing, and prevents leakage of unspliced pre-mRNAs from the nucleus (named for pre-mRNA RETention and Splicing). In Saccharomyces, the complex consists of Ist3p, Bud13p, and Pml1p." [PMID

3195 Pathogen[ Q2Q067] interacts with 1 human partners: {Q9BRD0}

3196 Pathogen[ P0C214] interacts with 1 human partners: {Q9BRD0}

3197 Pathogen[ P03346] interacts with 1 human partners: {Q9BRD0}

3198 Pathogen[ Q85601] interacts with 1 human partners: {Q9BRD0}

3199 Pathogen[ P14079] interacts with 1 human partners: {Q9BRD0}

3200 Pathogen[ P03383] interacts with 1 human partners: {Q9BRD0}

3201 Pathogen[ P03410] interacts with 1 human partners: {Q9BRD0}

3202 Pathogen[ P14075] interacts with 1 human partners: {Q9BRD0}

3203 Pathogen[ P0C206] interacts with 1 human partners: {Q9BRD0}

3204 Pathogen[ P03363] interacts with 1 human partners: {Q9BRD0}

3205 [Cluster 292]GO:0000815+C cellular\_component [name] ESCRT III complex [def] "An endosomal sorting complex required for transport. Consists of two soluble subcomplexes of highly charged coiled-coil proteins and is required for sorting and/or concentration of multivesicular body (MVB) cargoes." [GOC

3206 Pathogen[ Q2Q067] interacts with 2 human partners: {Q9UN37;Q8WUX9}

3207 Pathogen[ P0C214] interacts with 2 human partners: {Q8WUX9;Q9UN37}

3208 Pathogen[ P03346] interacts with 2 human partners: {Q9UN37;Q8WUX9}

3209 Pathogen[ Q85601] interacts with 2 human partners: {Q8WUX9;Q9UN37}

3210 Pathogen[ P14079] interacts with 2 human partners: {Q8WUX9;Q9UN37}

3211 Pathogen[ P03383] interacts with 2 human partners: {Q8WUX9;Q9UN37}

3212 Pathogen[ P03410] interacts with 2 human partners: {Q8WUX9;Q9UN37}

3213 Pathogen[ P14075] interacts with 2 human partners: {Q8WUX9;Q9UN37}

3214 Pathogen[ P0C206] interacts with 2 human partners: {Q8WUX9;Q9UN37}

3215 Pathogen[ P03363] interacts with 2 human partners: {Q9UN37;Q8WUX9}

3216 [Cluster 293]GO:0032391+C cellular\_component [name] photoreceptor connecting cilium [def] "A nonmotile primary cilium that has a 9+0 microtubule array and forms the portion of the axoneme traversing the boundary between the photoreceptor inner and outer segments." [PMID

3217 Pathogen[ Q2Q067] interacts with 8 human partners:{Q12798;Q9NS56;Q3B820;O15078;Q15051;P41208;Q9NWB7;O15182}

3218 Pathogen[ P0C214] interacts with 7 human partners:{Q9NWB7;O15078;Q15051;Q9NS56;Q12798;P41208;Q3B820}

3219 Pathogen[ P03346] interacts with 12 human partners:{Q9HBG6;Q15051;Q8TAM2;P41208;Q9NS56;Q9NWB7;Q3B820;P36405;Q12798;O15182;O15078;Q8IWN7}

3220 Pathogen[ Q85601] interacts with 9 human partners:{Q9NS56;P36405;O15182;Q12798;Q9NWB7;O15078;Q15051;Q3B820;P41208}

3221 Pathogen[ P14079] interacts with 15 human partners:{Q9NWB7;Q8IWN7;P56715;P36405;Q15814;Q12798;Q8TAM2;Q9NS56;P41208;Q9Y366;Q3B820;Q15051;O15078;O15182;O15259}

3222 Pathogen[ P03383] interacts with 6 human partners:{Q15051;Q9NWB7;P41208;Q12798;O15078;Q3B820}

3223 Pathogen[ P03410] interacts with 16 human partners:{Q3B820;O15259;Q96RY7;Q8TAM2;P36405;O15182;Q12798;Q15814;Q9Y366;Q9NWB7;O15078;Q15051;Q9HBG6;Q8IWN7;P41208;P56715}

3224 Pathogen[ P14075] interacts with 6 human partners:{Q15051;Q12798;O15078;Q9NWB7;P41208;Q3B820}

3225 Pathogen[ P0C206] interacts with 13 human partners:{O15182;Q9NS56;P56715;Q8TAM2;Q15814;Q8IWN7;Q9NWB7;O15078;P36405;Q3B820;P41208;Q12798;Q15051}

3226 Pathogen[ P03363] interacts with 13 human partners:{Q15051;P56715;Q8TAM2;Q3B820;O15078;P41208;Q9NWB7;Q12798;Q15814;Q9HBG6;O15182;Q8IWN7;O15259}

3227 [Cluster 294]GO:0000788+C cellular\_component [name] nuclear nucleosome [def] "A complex comprised of DNA wound around a multisubunit core and associated proteins, which forms the primary packing unit of DNA in the nucleus into higher order structures." [GOC

3228 Pathogen[ Q2Q067] interacts with 3 human partners:{Q99549;Q15306;P15923}

3229 Pathogen[ P0C214] interacts with 3 human partners:{P15923;Q99549;Q15306}

3230 Pathogen[ P03346] interacts with 3 human partners:{P15923;Q15306;Q99549}

3231 Pathogen[ Q85601] interacts with 3 human partners:{Q15306;Q99549;P15923}

3232 Pathogen[ P14079] interacts with 3 human partners:{Q99549;P15923;Q15306}

3233 Pathogen[ P03383] interacts with 3 human partners:{P15923;Q15306;Q99549}

3234 Pathogen[ P03410] interacts with 3 human partners:{Q99549;P15923;Q15306}

3235 Pathogen[ P14075] interacts with 3 human partners:{P15923;Q15306;Q99549}

3236 Pathogen[ P0C206] interacts with 3 human partners:{Q15306;P15923;Q99549}

3237 Pathogen[ P03363] interacts with 3 human partners:{Q15306;P15923;Q99549}

3238 [Cluster 295]GO:0036064+C cellular\_component [name] cilium basal body [def] "A membrane-tethered derivative of the centriole, and the site of assembly and remodelling of the cilium. As well as anchoring the cilium, the basal body is thought to provide a selective gateway regulating the entry of ciliary proteins and vesicles by intraflagellar transport." [PMID

3239 Pathogen[ Q2Q067] interacts with 4 human partners:{Q9NS56;Q3B820;Q86YF9;Q9BYV8}

3240 Pathogen[ P0C214] interacts with 4 human partners:{Q9NS56;Q9BYV8;Q3B820;Q86YF9}

3241 Pathogen[ P03346] interacts with 5 human partners:{Q86YF9;Q9NS56;Q8N841;Q3B820;Q9BYV8}

3242 Pathogen[ Q85601] interacts with 4 human partners:{Q9NS56;Q9BYV8;Q3B820;Q86YF9}

3243 Pathogen[ P14079] interacts with 7 human partners:{Q8IYY4;Q8N841;Q9NS56;Q3B820;Q86YF9;Q9BYV8;Q6IQ19}

3244 Pathogen[ P03383] interacts with 3 human partners:{Q9BYV8;Q86YF9;Q3B820}

3245 Pathogen[ P03410] interacts with 6 human partners:{Q3B820;Q96RY7;Q9BYV8;Q86YF9;Q6IQ19;Q8N841}

3246 Pathogen[ P14075] interacts with 4 human partners:{Q9BYV8;Q6IQ19;Q86YF9;Q3B820}

3247 Pathogen[ P0C206] interacts with 6 human partners:{Q9NS56;Q86YF9;Q6IQ19;Q8N841;Q9BYV8;Q3B820}

3248 Pathogen[ P03363] interacts with 5 human partners:{Q9BYV8;Q3B820;Q6IQ19;Q8N841;Q86YF9}

3249 [Cluster 296]GO:0033011+C cellular\_component [name] perinuclear theca [def] "A condensed cytoplasmic structure that covers the nucleus of mammalian spermatozoa except for a narrow zone around the insertion of the tail. It shows two distinct regions, a subacrosomal layer and, continuing caudally beyond the acrosomic system, the postacrosomal sheath. The perinuclear theca has been considered a cytoskeletal scaffold responsible for maintaining the overall architecture of the mature sperm head however, recent studies indicate that the bulk of its constituent proteins are not traditional cytoskeletal proteins but rather a variety of cytosolic proteins." [PMID

3250 Pathogen[ Q2Q067] interacts with 1 human partners:{Q6ICG8}

3251 Pathogen[ P0C214] interacts with 1 human partners:{Q6ICG8}

3252 Pathogen[ P03346] interacts with 1 human partners:{Q6ICG8}

3253 Pathogen[ Q85601] interacts with 1 human partners:{Q6ICG8}

3254 Pathogen[ P14079] interacts with 1 human partners:{Q6ICG8}

3255 Pathogen[ P03383] interacts with 1 human partners:{Q6ICG8}

3256 Pathogen[ P03410] interacts with 1 human partners:{Q6ICG8}

3257 Pathogen[ P14075] interacts with 1 human partners:{Q6ICG8}

3258 Pathogen[ P0C206] interacts with 1 human partners:{Q6ICG8}

3259 Pathogen[ P03363] interacts with 1 human partners:{Q6ICG8}

3260 [Cluster 297]GO:0000164+C cellular\_component [name] protein phosphatase type 1 complex [def] "A protein complex that possesses magnesium-dependent protein serine/threonine phosphatase (AMD phosphatase) activity, and consists of a catalytic subunit and one or more regulatory subunits that dictates the phosphatase's substrate specificity, function, and activity." [GOC  
3261 Pathogen[ Q2Q067] interacts with 2 human partners:{P62140;P62136}  
3262 Pathogen[ P0C214] interacts with 3 human partners:{P62140;Q5SWA1;P62136}  
3263 Pathogen[ P03346] interacts with 4 human partners:{P62136;Q5SWA1;Q9UQ13;P62140}  
3264 Pathogen[ Q85601] interacts with 3 human partners:{Q5SWA1;P62136;P62140}  
3265 Pathogen[ P14079] interacts with 3 human partners:{Q5SWA1;P62136;P62140}  
3266 Pathogen[ P03383] interacts with 3 human partners:{P62140;Q5SWA1;P62136}  
3267 Pathogen[ P03410] interacts with 3 human partners:{P62136;P62140;Q5SWA1}  
3268 Pathogen[ P14075] interacts with 3 human partners:{Q5SWA1;P62140;P62136}  
3269 Pathogen[ P0C206] interacts with 3 human partners:{Q5SWA1;P62140;P62136}  
3270 Pathogen[ P03363] interacts with 3 human partners:{P62136;P62140;Q9UQ13}  
3271 [Cluster 298]GO:0031090+C cellular\_component [name] organelle membrane [def] "The lipid bilayer surrounding an organelle." [GOC  
3272 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9Y244;Q9BXW4;Q86YV9}  
3273 Pathogen[ P0C214] interacts with 5 human partners:{Q9BXW4;Q9Y244;Q86YV9;Q08AM6;Q9H492}  
3274 Pathogen[ P03346] interacts with 5 human partners:{Q86YV9;Q9H492;Q96KC8;Q9Y244;Q9BXW4}  
3275 Pathogen[ Q85601] interacts with 5 human partners:{Q9H492;Q08AM6;Q9Y244;Q86YV9;Q9BXW4}  
3276 Pathogen[ P14079] interacts with 6 human partners:{Q86YV9;Q9H492;Q9Y244;O00519;O00264;Q9BXW4}  
3277 Pathogen[ P03383] interacts with 2 human partners:{Q9Y244;Q86YV9}  
3278 Pathogen[ P03410] interacts with 7 human partners:{O00519;Q08AM6;Q9H492;O00264;Q86YV9;Q9BXW4;Q9Y244}  
3279 Pathogen[ P14075] interacts with 2 human partners:{Q9Y244;Q86YV9}  
3280 Pathogen[ P0C206] interacts with 6 human partners:{Q9BXW4;Q9H492;O00264;Q86YV9;Q9Y244;Q08AM6}  
3281 Pathogen[ P03363] interacts with 3 human partners:{Q9H492;Q9BXW4;Q9Y244}  
3282 [Cluster 299]GO:0035086+C cellular\_component [name] flagellar axoneme [def] "The bundle of microtubules and associated proteins that forms the core of flagellar in eukaryotic cells and is responsible for their movements." [GOC  
3283 Pathogen[ Q2Q067] interacts with 3 human partners:{Q8WW24;Q96M29;Q6Q759}  
3284 Pathogen[ P0C214] interacts with 3 human partners:{Q8WW24;Q96M29;Q6Q759}  
3285 Pathogen[ P03346] interacts with 5 human partners:{Q9UIF3;Q96M29;Q8N0X2;Q6Q759;Q8WW24}  
3286 Pathogen[ Q85601] interacts with 4 human partners:{Q6Q759;Q9BXF9;Q8WW24;Q96M29}  
3287 Pathogen[ P14079] interacts with 7 human partners:{Q8N0X2;Q9BXF9;Q6Q759;Q96M29;Q8WW24;Q969V4;Q9UIF3}  
3288 Pathogen[ P03383] interacts with 3 human partners:{Q96M29;Q8WW24;Q6Q759}  
3289 Pathogen[ P03410] interacts with 7 human partners:{Q6Q759;Q9BXF9;Q8N0X2;Q9UIF3;Q9NPE6;Q969V4;Q96M29}  
3290 Pathogen[ P14075] interacts with 2 human partners:{Q6Q759;Q96M29}  
3291 Pathogen[ P0C206] interacts with 5 human partners:{Q9UIF3;Q9BXF9;Q96M29;Q6Q759;Q8WW24}  
3292 Pathogen[ P03363] interacts with 7 human partners:{Q8N0X2;Q969V4;Q96M29;Q9BXF9;Q9UIF3;Q6Q759;Q8WW24}  
3293 [Cluster 300]GO:0001750+C cellular\_component [name] photoreceptor outer segment [def] "The outer segment of a vertebrate photoreceptor that contains discs of photoreceptive membranes." [ISBN  
3294 Pathogen[ Q2Q067] interacts with 4 human partners:{Q8NFW9;Q9Y6N9;P20823;Q15051}  
3295 Pathogen[ P0C214] interacts with 3 human partners:{Q8NFW9;Q15051;Q9Y6N9}  
3296 Pathogen[ P03346] interacts with 6 human partners:{Q9Y6N9;P20823;Q15051;Q8NFW9;Q8IWN7;Q92834}  
3297 Pathogen[ Q85601] interacts with 5 human partners:{Q8NFW9;Q92834;Q9Y6N9;Q15051;P20823}  
3298 Pathogen[ P14079] interacts with 7 human partners:{Q92834;Q8IWN7;P56715;Q8NFW9;Q9Y6N9;Q15051;A6NGG8}  
3299 Pathogen[ P03383] interacts with 1 human partners:{Q15051}  
3300 Pathogen[ P03410] interacts with 7 human partners:{Q8NFW9;A6NGG8;Q9Y6N9;Q92834;Q15051;Q8IWN7;P56715}  
3301 Pathogen[ P14075] interacts with 1 human partners:{Q15051}  
3302 Pathogen[ P0C206] interacts with 8 human partners:{P56715;Q9Y6N9;Q8NFW9;Q8IWN7;P20823;A6NGG8;Q15051;Q92834}  
3303 Pathogen[ P03363] interacts with 7 human partners:{Q9Y6N9;Q15051;P36575;P56715;Q8NFW9;Q92834;Q8IWN7}  
3304 [Cluster 301]GO:0035370+C cellular\_component [name] UBC13-UEV1A complex [def] "A heterodimeric ubiquitin conjugating enzyme complex that catalyzes assembly of K63-linked polyubiquitin chains and is involved in NF-kappaB activation. In humans at least, the complex comprises the ubiquitin-conjugating enzyme UBC13 and ubiquitin-conjugating enzyme variant 1A (UEV1A)." [GOC  
3305 Pathogen[ Q2Q067] interacts with 2 human partners:{P61088;Q13404}

3306 Pathogen[ P0C214] interacts with 2 human partners:{Q13404;P61088}

3307 Pathogen[ P03346] interacts with 2 human partners:{Q13404;P61088}

3308 Pathogen[ Q85601] interacts with 2 human partners:{Q13404;P61088}

3309 Pathogen[ P14079] interacts with 1 human partners:{Q13404}

3310 Pathogen[ P03383] interacts with 2 human partners:{P61088;Q13404}

3311 Pathogen[ P03410] interacts with 2 human partners:{P61088;Q13404}

3312 Pathogen[ P14075] interacts with 2 human partners:{P61088;Q13404}

3313 Pathogen[ P0C206] interacts with 2 human partners:{P61088;Q13404}

3314 Pathogen[ P03363] interacts with 2 human partners:{P61088;Q13404}

3315 [Cluster 302]GO:0044295+C cellular\_component [name] axonal growth cone [def] "The migrating motile tip of a growing nerve cell axon." [GOC

3316 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UQF2}

3317 Pathogen[ P0C214] interacts with 1 human partners:{Q9UQF2}

3318 Pathogen[ P03346] interacts with 1 human partners:{Q9UQF2}

3319 Pathogen[ Q85601] interacts with 1 human partners:{Q9UQF2}

3320 Pathogen[ P14079] interacts with 1 human partners:{Q9UQF2}

3321 Pathogen[ P03383] interacts with 1 human partners:{Q9UQF2}

3322 Pathogen[ P03410] interacts with 1 human partners:{Q9UQF2}

3323 Pathogen[ P14075] interacts with 1 human partners:{Q9UQF2}

3324 Pathogen[ P0C206] interacts with 1 human partners:{Q9UQF2}

3325 Pathogen[ P03363] interacts with 1 human partners:{Q9UQF2}

3326 [Cluster 303]GO:0005677+C cellular\_component [name] chromatin silencing complex [def] "Any protein complex that mediates changes in chromatin structure that result in transcriptional silencing." [GOC

3327 Pathogen[ Q2Q067] interacts with 5 human partners:{O43463;Q8IXJ6;O43159;Q8TBE0;Q9UIF9}

3328 Pathogen[ P0C214] interacts with 6 human partners:{O43159;O43463;Q8TBE0;Q9UIF9;O60264;Q8IXJ6}

3329 Pathogen[ P03346] interacts with 6 human partners:{O43159;Q8IXJ6;O43463;O60264;Q9UIF9;Q8TBE0}

3330 Pathogen[ Q85601] interacts with 6 human partners:{Q9UIF9;Q8TBE0;O43159;O43463;Q8IXJ6;O60264}

3331 Pathogen[ P14079] interacts with 5 human partners:{Q9UIF9;O60264;Q8IXJ6;O43159;Q8TBE0}

3332 Pathogen[ P03383] interacts with 4 human partners:{O43463;O43159;Q9UIF9;Q8TBE0}

3333 Pathogen[ P03410] interacts with 6 human partners:{Q8IXJ6;O43159;Q8TBE0;Q9UIF9;O43463;O60264}

3334 Pathogen[ P14075] interacts with 4 human partners:{Q9UIF9;Q8TBE0;O43159;O43463}

3335 Pathogen[ P0C206] interacts with 6 human partners:{O43159;O43463;Q9UIF9;Q8IXJ6;Q8TBE0;O60264}

3336 Pathogen[ P03363] interacts with 5 human partners:{O60264;Q9UIF9;O43159;O43463;Q8TBE0}

3337 [Cluster 304]GO:0001739+C cellular\_component [name] sex chromatin [def] "A condensed mass of compacted chromatin that represents an inactivated X chromosome." [ISBN

3338 Pathogen[ Q2Q067] interacts with 5 human partners:{Q15022;P35227;O75530;Q99496;Q06587}

3339 Pathogen[ P0C214] interacts with 5 human partners:{P35227;Q15022;O75530;Q06587;Q99496}

3340 Pathogen[ P03346] interacts with 6 human partners:{O75530;P35227;Q15022;Q99496;P78364;Q06587}

3341 Pathogen[ Q85601] interacts with 6 human partners:{Q15022;P78364;O75530;Q99496;Q06587;P35227}

3342 Pathogen[ P14079] interacts with 6 human partners:{P78364;Q99496;O75530;P35227;Q15022;Q06587}

3343 Pathogen[ P03383] interacts with 5 human partners:{P35227;Q06587;Q15022;Q99496;O75530}

3344 Pathogen[ P03410] interacts with 6 human partners:{Q99496;P35227;Q06587;P78364;Q15022;O75530}

3345 Pathogen[ P14075] interacts with 5 human partners:{Q06587;Q99496;Q15022;P35227;O75530}

3346 Pathogen[ P0C206] interacts with 6 human partners:{O75530;P78364;Q06587;Q15022;Q99496;P35227}

3347 Pathogen[ P03363] interacts with 5 human partners:{P35227;Q15022;Q99496;O75530;Q06587}

3348 [Cluster 305]GO:0030892+C cellular\_component [name] mitotic cohesin complex [def] "A cohesin complex that mediates sister chromatid cohesion during mitosis\_ has a subunit composition distinct from that of the meiotic cohesin complex." [GOC

3349 Pathogen[ Q2Q067] interacts with 2 human partners:{Q5FBB7;Q562F6}

3350 Pathogen[ P0C214] interacts with 2 human partners:{Q562F6;Q5FBB7}

3351 Pathogen[ P03346] interacts with 2 human partners:{Q5FBB7;Q562F6}

3352 Pathogen[ Q85601] interacts with 2 human partners:{Q562F6;Q5FBB7}

3353 Pathogen[ P14079] interacts with 2 human partners:{Q5FBB7;Q562F6}

3354 Pathogen[ P03383] interacts with 2 human partners:{Q5FBB7;Q562F6}

3355 Pathogen[ P03410] interacts with 2 human partners:{Q562F6;Q5FBB7}

3356 Pathogen[ P14075] interacts with 2 human partners:{Q562F6;Q5FBB7}

3357 Pathogen[ P0C206] interacts with 2 human partners:{Q5FBB7;Q562F6}

3358 Pathogen[ P03363] interacts with 2 human partners:{Q5FBB7;Q562F6}

3359 [Cluster 306]GO:0000796+C cellular\_component [name] condensin complex [def] "A multisubunit protein complex that plays a central role in chromosome condensation." [GOC]

3360 Pathogen[ Q2Q067] interacts with 4 human partners:{Q95347;Q15003;Q15021;Q9BPX3}

3361 Pathogen[ P0C214] interacts with 4 human partners:{Q9BPX3;Q15003;Q95347;Q15021}

3362 Pathogen[ P03346] interacts with 4 human partners:{Q95347;Q9BPX3;Q15021;Q15003}

3363 Pathogen[ Q85601] interacts with 4 human partners:{Q95347;Q9BPX3;Q15003;Q15021}

3364 Pathogen[ P14079] interacts with 4 human partners:{Q15003;Q95347;Q9BPX3;Q15021}

3365 Pathogen[ P03383] interacts with 4 human partners:{Q95347;Q15003;Q9BPX3;Q15021}

3366 Pathogen[ P03410] interacts with 4 human partners:{Q15003;Q95347;Q9BPX3;Q15021}

3367 Pathogen[ P14075] interacts with 4 human partners:{Q95347;Q15003;Q9BPX3;Q15021}

3368 Pathogen[ P0C206] interacts with 5 human partners:{Q9BPX3;Q15021;Q15003;Q95347;Q9NTJ3}

3369 Pathogen[ P03363] interacts with 4 human partners:{Q15021;Q95347;Q9BPX3;Q15003}

3370 [Cluster 307]GO:0001725+C cellular\_component [name] stress fiber [def] "A contractile actin filament bundle that consists of short actin filaments with alternating polarity, cross-linked by alpha-actinin and possibly other actin bundling proteins, and with myosin present in a periodic distribution along the fiber." [PMID]

3371 Pathogen[ Q2Q067] interacts with 5 human partners:{Q9Y613;Q8N3V7;P12883;P35579;Q9BX66}

3372 Pathogen[ P0C214] interacts with 12 human partners:{P68133;O00159;Q9BX66;Q9Y613;P35580;Q15124;Q16658;P12883;Q7Z406;P13533;Q8N3V7;P35749}

3373 Pathogen[ P03346] interacts with 9 human partners:{Q8N3V7;Q96AC1;Q9Y613;P35579;Q15942;Q9BX66;O76041;Q16658;Q9UHD8}

3374 Pathogen[ Q85601] interacts with 13 human partners:{P68133;P13533;Q9Y613;P35579;Q9BX66;O00159;Q15124;Q7Z406;Q8N3V7;Q15942;P35749;P12883;P35580}

3375 Pathogen[ P14079] interacts with 13 human partners:{P35579;Q16658;Q9NR12;Q15124;Q9Y613;Q96AC1;Q8N3V7;O76041;P12883;Q99439;Q9BX66;P68133;Q15942}

3376 Pathogen[ P03383] interacts with 5 human partners:{Q9Y613;P12883;P35580;P35579;Q8N3V7}

3377 Pathogen[ P03410] interacts with 15 human partners:{Q16658;Q8N3V7;O76041;O00159;P35579;Q15124;Q15942;Q99439;Q9Y613;P12883;P68133;Q9UHD8;P35580;P13533;Q9BX66}

3378 Pathogen[ P14075] interacts with 3 human partners:{Q8N3V7;Q9Y613;P35579}

3379 Pathogen[ P0C206] interacts with 15 human partners:{P13533;Q8N3V7;Q15124;O76041;P68133;P12883;Q16658;O00159;Q15942;P35749;P35579;Q9BX66;Q9Y613;Q16181;P35580}

3380 Pathogen[ P03363] interacts with 14 human partners:{Q8N3V7;Q9BX66;P35579;P68133;Q9Y613;Q8NHY3;Q9NVA2;Q8IYM1;Q9UHD8;Q96AC1;O76041;Q9NR12;Q16658;Q15942}

3381 [Cluster 308]GO:0044292+C cellular\_component [name] dendrite terminus [def] "A structure at the distal end of a dendrite adapted to carry out a specific function, e.g. dendriole." [GOC]

3382 Pathogen[ Q2Q067] interacts with 2 human partners:{Q8IY31;Q9NWB7}

3383 Pathogen[ P0C214] interacts with 2 human partners:{Q9NWB7;Q8IY31}

3384 Pathogen[ P03346] interacts with 2 human partners:{Q8IY31;Q9NWB7}

3385 Pathogen[ Q85601] interacts with 2 human partners:{Q9NWB7;Q8IY31}

3386 Pathogen[ P14079] interacts with 3 human partners:{Q9NWB7;Q8IY31;Q9Y366}

3387 Pathogen[ P03383] interacts with 2 human partners:{Q9NWB7;Q8IY31}

3388 Pathogen[ P03410] interacts with 3 human partners:{Q9Y366;Q8IY31;Q9NWB7}

3389 Pathogen[ P14075] interacts with 2 human partners:{Q8IY31;Q9NWB7}

3390 Pathogen[ P0C206] interacts with 2 human partners:{Q8IY31;Q9NWB7}

3391 Pathogen[ P03363] interacts with 2 human partners:{Q9NWB7;Q8IY31}

3392 [Cluster 309]GO:0000942+C cellular\_component [name] condensed nuclear chromosome outer kinetochore [def] "The region of a condensed nuclear chromosome kinetochore most external to centromeric DNA\_ this outer region mediates kinetochore-microtubule interactions." [GOC]

3393 Pathogen[ Q2Q067] interacts with 2 human partners:{P14635;O14777}

3394 Pathogen[ P0C214] interacts with 2 human partners:{P14635;O14777}

3395 Pathogen[ P03346] interacts with 2 human partners:{O14777;P14635}

3396 Pathogen[ Q85601] interacts with 2 human partners:{P14635;O14777}

3397 Pathogen[ P14079] interacts with 2 human partners:{P14635;O14777}

3398 Pathogen[ P03383] interacts with 2 human partners:{P14635;O14777}

3399 Pathogen[ P03410] interacts with 2 human partners:{P14635;O14777}

3400 Pathogen[ P14075] interacts with 2 human partners:{P14635;O14777}

3401 Pathogen[ P0C206] interacts with 2 human partners:{O14777;P14635}

3402 Pathogen[ P03363] interacts with 1 human partners:{O14777}

3403 [Cluster 310]GO:0001772+C cellular\_component [name] immunological synapse [def] "An area of close contact between a lymphocyte (T-, B-, or natural killer cell) and a target cell formed through the clustering of particular signaling and adhesion molecules and their associated membrane rafts on both the lymphocyte and the target cell and facilitating activation of the lymphocyte, transfer of membrane from the target cell to the lymphocyte, and in some situations killing of the target cell through release of

secretory granules and/or death-pathway ligand-receptor interaction." [GOC  
3404 Pathogen[ Q2Q067] interacts with 3 human partners:{O95999;Q12959;P35579}  
3405 Pathogen[ P0C214] interacts with 3 human partners:{P52565;O95999;Q12959}  
3406 Pathogen[ P03346] interacts with 6 human  
partners:{P35579;Q6UWF3;P52565;O95999;P10144;Q12959}  
3407 Pathogen[ Q85601] interacts with 5 human  
partners:{P10144;P35579;P52565;Q12959;O95999}  
3408 Pathogen[ P14079] interacts with 6 human  
partners:{P52565;P35579;O95999;Q6UWF3;O43561;P10144}  
3409 Pathogen[ P03383] interacts with 3 human partners:{Q6UWF3;O95999;P35579}  
3410 Pathogen[ P03410] interacts with 7 human  
partners:{P10144;Q12959;O43561;P35579;O95999;Q6UWF3;P52565}  
3411 Pathogen[ P14075] interacts with 3 human partners:{P35579;O95999;Q6UWF3}  
3412 Pathogen[ P0C206] interacts with 6 human  
partners:{P10144;P52565;O95999;Q6UWF3;P35579;Q12959}  
3413 Pathogen[ P03363] interacts with 5 human  
partners:{Q12959;P52565;P35579;Q6UWF3;P10144}  
3414 [Cluster 311]GO:0035748+C cellular\_component [name] myelin sheath abaxonal region  
[def] "The region of the myelin sheath furthest from the axon." [GOC  
3415 Pathogen[ Q2Q067] interacts with 2 human partners:{Q14160;Q12959}  
3416 Pathogen[ P0C214] interacts with 2 human partners:{Q12959;Q14160}  
3417 Pathogen[ P03346] interacts with 3 human partners:{Q96A65;Q14160;Q12959}  
3418 Pathogen[ Q85601] interacts with 3 human partners:{Q96A65;Q14160;Q12959}  
3419 Pathogen[ P14079] interacts with 1 human partners:{Q96A65}  
3420 Pathogen[ P03383] interacts with 1 human partners:{Q14160}  
3421 Pathogen[ P03410] interacts with 3 human partners:{Q12959;Q14160;Q96A65}  
3422 Pathogen[ P14075] interacts with 1 human partners:{Q14160}  
3423 Pathogen[ P0C206] interacts with 3 human partners:{Q96A65;Q14160;Q12959}  
3424 Pathogen[ P03363] interacts with 3 human partners:{Q12959;Q96A65;Q14160}  
3425 [Cluster 312]GO:0030141+C cellular\_component [name] secretory granule [def] "A  
small subcellular vesicle, surrounded by a membrane, that is formed from the Golgi  
apparatus and contains a highly concentrated protein destined for secretion. Secretory  
granules move towards the periphery of the cell and upon stimulation, their membranes  
fuse with the cell membrane, and their protein load is exteriorized. Processing of the  
contained protein may take place in secretory granules." [GOC  
3426 Pathogen[ Q2Q067] interacts with 4 human partners:{Q15833;P60953;O14964;P41250}  
3427 Pathogen[ P0C214] interacts with 6 human  
partners:{P41250;Q15833;O95633;O14964;P60953;P10809}  
3428 Pathogen[ P03346] interacts with 7 human  
partners:{Q15833;P60953;P41250;P51587;O14964;Q9Y2J0;O95633}  
3429 Pathogen[ Q85601] interacts with 5 human  
partners:{Q15833;P41250;O14964;P60953;P51587}  
3430 Pathogen[ P14079] interacts with 13 human  
partners:{Q86VI1;P04279;Q02383;P05408;P20396;P13498;P51587;Q9NS71;Q15833;P41250;Q9GZZ  
8;O43612;P05060}  
3431 Pathogen[ P03383] interacts with 3 human partners:{P60953;P41250;O14964}  
3432 Pathogen[ P03410] interacts with 15 human  
partners:{Q15833;O43612;Q9Y2J0;Q9GZZ8;P10645;P05060;Q9NS71;P51587;Q02383;P05408;P4125  
0;P60953;P04279;Q86VI1;P20396}  
3433 Pathogen[ P14075] interacts with 6 human  
partners:{P60953;P41250;P05060;O14964;Q9GZZ8;Q9NS71}  
3434 Pathogen[ P0C206] interacts with 10 human  
partners:{O14964;O95633;P51587;Q9Y2J0;P41250;P05060;Q86VI1;P60953;P20396;Q15833}  
3435 Pathogen[ P03363] interacts with 5 human  
partners:{P41250;O14964;P05060;P60953;Q15833}  
3436 [Cluster 313]GO:0043186+C cellular\_component [name] P granule [def] "A small  
cytoplasmic, non-membranous RNA/protein complex aggregates in the primordial germ cells  
of many higher eukaryotes." [GOC  
3437 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9Y2V2;Q5T8I9}  
3438 Pathogen[ P0C214] interacts with 2 human partners:{Q9Y2V2;Q5T8I9}  
3439 Pathogen[ P03346] interacts with 4 human partners:{Q5T8I9;Q9Y2V2;Q8NHU6;Q96J94}  
3440 Pathogen[ Q85601] interacts with 2 human partners:{Q5T8I9;Q9Y2V2}  
3441 Pathogen[ P14079] interacts with 3 human partners:{Q8NHU6;Q96JY0;Q9Y2V2}  
3442 Pathogen[ P03383] interacts with 2 human partners:{Q5T8I9;Q9Y2V2}  
3443 Pathogen[ P03410] interacts with 3 human partners:{Q8NHU6;Q5T8I9;Q9Y2V2}  
3444 Pathogen[ P14075] interacts with 2 human partners:{Q9Y2V2;Q5T8I9}  
3445 Pathogen[ P0C206] interacts with 2 human partners:{Q9Y2V2;Q5T8I9}  
3446 Pathogen[ P03363] interacts with 6 human  
partners:{Q8NHU6;Q7Z3Z4;Q9Y2V2;Q5T8I9;Q96JY0;Q96J94}  
3447 [Cluster 314]GO:0005682+C cellular\_component [name] U5 snRNP [def] "A  
ribonucleoprotein complex that contains small nuclear RNA U5." [GOC  
3448 Pathogen[ Q2Q067] interacts with 4 human partners:{O95400;Q96DI7;O94906;Q6P2Q9}  
3449 Pathogen[ P0C214] interacts with 4 human partners:{O95400;Q6P2Q9;O94906;Q96DI7}  
3450 Pathogen[ P03346] interacts with 6 human  
partners:{O95400;O94906;Q9BUQ8;O75643;Q6P2Q9;Q96DI7}  
3451 Pathogen[ Q85601] interacts with 4 human partners:{O94906;Q96DI7;O95400;Q6P2Q9}

3452 Pathogen[ P14079] interacts with 3 human partners:{094906;Q6P2Q9;O95400}

3453 Pathogen[ P03383] interacts with 4 human partners:{Q6P2Q9;O95400;O94906;Q96DI7}

3454 Pathogen[ P03410] interacts with 3 human partners:{094906;O95400;Q6P2Q9}

3455 Pathogen[ P14075] interacts with 4 human partners:{O95400;O94906;Q96DI7;Q6P2Q9}

3456 Pathogen[ P0C206] interacts with 4 human partners:{O95400;Q6P2Q9;O94906;Q96DI7}

3457 Pathogen[ P03363] interacts with 5 human partners:{075643;O95400;Q6P2Q9;O94906;Q96DI7}

3458 [Cluster 315]GO:0030849+C cellular\_component [name] autosome [def] "Any chromosome other than a sex chromosome." [GOC]

3459 Pathogen[ Q2Q067] interacts with 1 human partners:{075182}

3460 Pathogen[ P0C214] interacts with 1 human partners:{075182}

3461 Pathogen[ P03346] interacts with 1 human partners:{075182}

3462 Pathogen[ Q85601] interacts with 1 human partners:{075182}

3463 Pathogen[ P14079] interacts with 2 human partners:{075182;Q96JY0}

3464 Pathogen[ P03383] interacts with 1 human partners:{075182}

3465 Pathogen[ P03410] interacts with 1 human partners:{075182}

3466 Pathogen[ P14075] interacts with 1 human partners:{075182}

3467 Pathogen[ P0C206] interacts with 1 human partners:{075182}

3468 Pathogen[ P03363] interacts with 2 human partners:{Q96JY0;075182}

3469 [Cluster 316]GO:0042827+C cellular\_component [name] platelet dense granule [def] "Electron-dense granule occurring in blood platelets that stores and secretes adenosine nucleotides and serotonin. They contain a highly condensed core consisting of serotonin, histamine, calcium, magnesium, ATP, ADP, pyrophosphate and membrane lysosomal proteins." [GOC]

3470 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NQG7}

3471 Pathogen[ P0C214] interacts with 1 human partners:{Q9NQG7}

3472 Pathogen[ P03346] interacts with 1 human partners:{Q9NQG7}

3473 Pathogen[ Q85601] interacts with 1 human partners:{Q9NQG7}

3474 Pathogen[ P14079] interacts with 1 human partners:{Q9NQG7}

3475 Pathogen[ P03383] interacts with 1 human partners:{Q9NQG7}

3476 Pathogen[ P03410] interacts with 1 human partners:{Q9NQG7}

3477 Pathogen[ P14075] interacts with 1 human partners:{Q9NQG7}

3478 Pathogen[ P0C206] interacts with 1 human partners:{Q9NQG7}

3479 Pathogen[ P03363] interacts with 1 human partners:{Q9NQG7}

3480 [Cluster 317]GO:0030123+C cellular\_component [name] AP-3 adaptor complex [def] "A heterotetrameric AP-type membrane coat adaptor complex that consists of beta3, delta, mu3 and sigma3 subunits and is found associated with endosomal membranes. AP-3 does not appear to associate with clathrin in all organisms. In at least humans, the AP-3 complex can be heterogeneric due to the existence of multiple subunit isoforms encoded by different genes (beta3A and beta3B, mu3A and mu3B, and sigma3A and sigma3B)." [GOC]

3481 Pathogen[ Q2Q067] interacts with 1 human partners:{Q92572}

3482 Pathogen[ P0C214] interacts with 2 human partners:{P59780;Q92572}

3483 Pathogen[ P03346] interacts with 2 human partners:{Q92572;P59780}

3484 Pathogen[ Q85601] interacts with 2 human partners:{Q92572;P59780}

3485 Pathogen[ P14079] interacts with 2 human partners:{P59780;Q92572}

3486 Pathogen[ P03383] interacts with 1 human partners:{Q92572}

3487 Pathogen[ P03410] interacts with 2 human partners:{Q92572;P59780}

3488 Pathogen[ P14075] interacts with 1 human partners:{Q92572}

3489 Pathogen[ P0C206] interacts with 2 human partners:{Q92572;P59780}

3490 Pathogen[ P03363] interacts with 1 human partners:{Q92572}

3491 [Cluster 318]GO:0031465+C cellular\_component [name] Cul4B-RING ubiquitin ligase complex [def] "A ubiquitin ligase complex in which a cullin from the Cul4B subfamily and a RING domain protein form the catalytic core\_ substrate specificity is conferred by unknown subunits." [PMID]

3492 Pathogen[ Q2Q067] interacts with 4 human partners:{Q9NZJ0;Q16531;Q13620;P62877}

3493 Pathogen[ P0C214] interacts with 4 human partners:{Q13620;P62877;Q9NZJ0;Q16531}

3494 Pathogen[ P03346] interacts with 4 human partners:{Q9NZJ0;Q16531;Q13620;P62877}

3495 Pathogen[ Q85601] interacts with 4 human partners:{Q16531;P62877;Q9NZJ0;Q13620}

3496 Pathogen[ P14079] interacts with 4 human partners:{Q13620;Q16531;P62877;Q9NZJ0}

3497 Pathogen[ P03383] interacts with 4 human partners:{Q9NZJ0;P62877;Q16531;Q13620}

3498 Pathogen[ P03410] interacts with 4 human partners:{Q13620;P62877;Q16531;Q9NZJ0}

3499 Pathogen[ P14075] interacts with 4 human partners:{Q13620;Q16531;Q9NZJ0;P62877}

3500 Pathogen[ P0C206] interacts with 4 human partners:{P62877;Q16531;Q13620;Q9NZJ0}

3501 Pathogen[ P03363] interacts with 4 human partners:{Q16531;P62877;Q13620;Q9NZJ0}

3502 [Cluster 319]GO:0005678+C cellular\_component [name] chromatin assembly complex [def] "Any protein complex that acts in the formation of nucleosomes or higher order chromatin structure." [GOC]

3503 Pathogen[ Q2Q067] interacts with 8 human partners:{Q9Y3T9;Q13111;Q99457;Q9ULW6;Q13112;Q8WUU5;Q99733;P55209}

3504 Pathogen[ P0C214] interacts with 6 human partners:{Q9Y3T9;Q13112;Q13111;Q99457;Q99733;Q9ULW6}

3505 Pathogen[ P03346] interacts with 8 human partners:{Q99733;Q99457;Q8WUU5;Q13111;Q9Y3T9;Q13112;P55209;Q9ULW6}

3506 Pathogen[ Q85601] interacts with 8 human partners:{Q99733;Q13112;Q99457;Q8WUU5;Q9Y3T9;Q13111;P55209;Q9ULW6}

3507 Pathogen[ P14079] interacts with 8 human partners:{Q99733;Q13112;Q99457;Q8WUU5;Q9Y3T9;Q13111;P55209;Q9ULW6}

3508 partners:{Q99733;Q13112;Q13111;Q9Y3T9;P55209;Q8WUU5;Q9ULW6;Q99457}  
Pathogen[ P03383] interacts with 7 human

3509 partners:{Q99457;P55209;Q9Y3T9;Q99733;Q13111;Q13112;Q9ULW6}  
Pathogen[ P03410] interacts with 8 human

3510 partners:{Q99457;Q99733;Q8WUU5;Q9Y3T9;Q13111;Q13112;P55209;Q9ULW6}  
Pathogen[ P14075] interacts with 7 human

3511 partners:{Q99457;Q13111;P55209;Q99733;Q9Y3T9;Q13112;Q9ULW6}  
Pathogen[ P0C206] interacts with 8 human

3512 partners:{Q13112;Q99733;Q8WUU5;Q13111;Q99457;Q9ULW6;P55209;Q9Y3T9}  
Pathogen[ P03363] interacts with 8 human

3513 partners:{Q13112;Q13111;Q99733;Q99457;P55209;Q9Y3T9;Q9ULW6;Q8WUU5}  
[Cluster 320]GO:0071564+C cellular\_component [name] npBAF complex [def] "A SWI/SNF-type complex that is found in neural stem or progenitor cells, and in human contains actin and proteins encoded by the ARID1A/BAF250A or ARID1B/BAF250B, SMARCD1/BAF60A, SMARCD3/BAF60C, SMARCA2/BRM/BAF190B, SMARCA4/BRG1/BAF190A, SMARCB1/BAF47, SMARCC1/BAF155, SMARCE1/BAF57, SMARCC2/BAF170, PHF10/BAF45A, ACTL6A/BAF53A genes. The npBAF complex is essential for the self-renewal/proliferative capacity of the multipotent neural stem cells." [GOC

3514 Pathogen[ Q2Q067] interacts with 12 human  
partners:{Q92922;O96019;P51531;Q8WUB8;Q969G3;O14497;P51532;Q96GM5;Q12824;Q8TAQ2;Q9HBD4;Q6STE5}

3515 Pathogen[ P0C214] interacts with 12 human  
partners:{Q12824;O14497;Q9HBD4;Q6STE5;Q8TAQ2;Q92922;Q969G3;Q8WUB8;P51531;Q96GM5;O96019;P51532}

3516 Pathogen[ P03346] interacts with 12 human  
partners:{Q9HBD4;Q96GM5;P51532;Q12824;O96019;Q6STE5;O14497;Q969G3;Q92922;Q8WUB8;P51531;Q8TAQ2}

3517 Pathogen[ Q85601] interacts with 12 human  
partners:{Q6STE5;O14497;O96019;Q8WUB8;P51531;Q96GM5;P51532;Q969G3;Q9HBD4;Q92922;Q12824;Q8TAQ2}

3518 Pathogen[ P14079] interacts with 9 human  
partners:{Q6STE5;Q92922;P51532;P51531;O14497;Q8TAQ2;Q96GM5;Q8WUB8;Q12824}

3519 Pathogen[ P03383] interacts with 11 human  
partners:{O14497;Q9HBD4;O96019;Q12824;Q6STE5;Q96GM5;Q969G3;P51531;Q8TAQ2;P51532;Q92922}

3520 Pathogen[ P03410] interacts with 12 human  
partners:{Q8WUB8;Q96GM5;O14497;O96019;Q969G3;Q92922;P51532;P51531;Q8TAQ2;Q6STE5;Q12824;Q9HBD4}

3521 Pathogen[ P14075] interacts with 10 human  
partners:{Q9HBD4;Q96GM5;P51532;Q92922;O14497;O96019;P51531;Q8TAQ2;Q12824;Q6STE5}

3522 Pathogen[ P0C206] interacts with 12 human  
partners:{P51532;P51531;Q6STE5;Q92922;Q12824;Q8TAQ2;O14497;O96019;Q8WUB8;Q96GM5;Q969G3;Q9HBD4}

3523 Pathogen[ P03363] interacts with 11 human  
partners:{Q6STE5;Q8TAQ2;P51532;O14497;O96019;Q969G3;Q9HBD4;Q96GM5;P51531;Q92922;Q12824}

3524 [Cluster 321]GO:0000421+C cellular\_component [name] autophagic vacuole membrane [def] "The lipid bilayer surrounding an autophagic vacuole, a double-membrane-bounded vesicle in which endogenous cellular material is sequestered." [GOC

3525 Pathogen[ Q2Q067] interacts with 5 human  
partners:{Q7Z3C6;Q9BXW4;P60520;Q9Y4P8;Q676U5}

3526 Pathogen[ P0C214] interacts with 6 human  
partners:{P60520;Q9BXW4;Q676U5;Q9Y4P8;Q9H492;Q7Z3C6}

3527 Pathogen[ P03346] interacts with 7 human  
partners:{O95166;Q7Z3C6;P60520;Q9H492;Q9BXW4;Q676U5;Q9Y4P8}

3528 Pathogen[ Q85601] interacts with 7 human  
partners:{Q9H492;O95166;Q7Z3C6;Q9BXW4;Q9Y4P8;Q676U5;P60520}

3529 Pathogen[ P14079] interacts with 8 human  
partners:{O95166;Q9Y4P8;Q9H492;Q7Z3C6;Q96GC9;P60520;Q676U5;Q9BXW4}

3530 Pathogen[ P03383] interacts with 3 human partners:{Q7Z3C6;Q676U5;Q9Y4P8}

3531 Pathogen[ P03410] interacts with 10 human  
partners:{Q674R7;Q96GC9;P60520;Q9Y4P8;O95166;Q9H492;Q9BXW4;Q676U5;Q7Z3C6;Q5MNZ9}

3532 Pathogen[ P14075] interacts with 3 human partners:{Q676U5;Q9Y4P8;Q7Z3C6}

3533 Pathogen[ P0C206] interacts with 7 human  
partners:{Q7Z3C6;Q9BXW4;Q9H492;Q9Y4P8;P60520;Q676U5;O95166}

3534 Pathogen[ P03363] interacts with 7 human  
partners:{Q9H492;Q9BXW4;P60520;Q7Z3C6;Q9Y4P8;Q676U5;O95166}

3535 [Cluster 322]GO:0030017+C cellular\_component [name] sarcomere [def] "The repeating unit of a myofibril in a muscle cell, composed of an array of overlapping thick and thin filaments between two adjacent Z discs." [ISBN

3536 Pathogen[ Q2Q067] interacts with 8 human  
partners:{Q9UKX2;Q8NF91;Q8N0Z2;P60900;Q86TC9;P12883;Q5JVS0;Q9NPC6}

3537 Pathogen[ P0C214] interacts with 13 human  
partners:{P68133;Q8N0Z2;Q5JVS0;Q9UKX2;Q9NPC6;Q8NF91;P49257;Q86TC9;P19429;P12883;P13533;P60900;Q9Y623}

3538 Pathogen[ P03346] interacts with 10 human



3539 partners:{Q86TC9;Q8N0Z2;P49257;P60900;Q5JVS0;Q9UKX2;Q8NF91;Q5BXX8;P10916;Q9NPC6}  
Pathogen[ Q85601] interacts with 12 human

3540 partners:{Q86TC9;P60900;P68133;Q5JVS0;P13533;Q9NPC6;Q9UKX2;P49257;P12883;Q8N0Z2;Q8NF91;Q9Y623}  
Pathogen[ P14079] interacts with 14 human

3541 partners:{Q5JVS0;P49257;P19429;P10916;Q9NPC6;Q9UKX2;Q86TC9;P68032;P60900;P12883;Q8N0Z2;Q8NF91;O15273;P68133}  
Pathogen[ P03383] interacts with 6 human

3542 partners:{Q5JVS0;P60900;Q9UKX2;Q8N0Z2;P12883;Q9NPC6}  
Pathogen[ P03410] interacts with 14 human

3543 partners:{Q9UKX2;P10916;P49257;P19429;P60900;Q9NPC6;O15273;Q5JVS0;P12883;P68133;P13533;Q8N0Z2;Q86TC9;Q8NF91}  
Pathogen[ P14075] interacts with 5 human

3544 partners:{Q9NPC6;Q9UKX2;P60900;Q8N0Z2;Q5JVS0}  
Pathogen[ P0C206] interacts with 14 human

3545 partners:{Q86TC9;P13533;Q9Y623;P19429;P60900;P68133;Q8NF91;P12883;Q5JVS0;P49257;Q9UKX2;Q9NPC6;Q5BXX8;Q8N0Z2}  
Pathogen[ P03363] interacts with 10 human

3546 partners:{Q86TC9;Q8NF91;Q9UKX2;P68133;Q8N0Z2;Q5JVS0;Q5BXX8;Q9NPC6;P19429;P10916}  
[Cluster 323]GO:0042995+C cellular\_component [name] cell projection [def] "A  
prolongation or process extending from a cell, e.g. a flagellum or axon." [GOC

3547 Pathogen[ Q2Q067] interacts with 66 human  
partners:{Q8WW24;O15511;O00213;O75161;Q5TD94;Q9Y613;Q7Z6J0;Q8WX93;Q63HK5;Q9NPB6;Q14678;Q8N3V7;Q9UBB6;Q5T1C6;Q14511;Q8IZP0;P14136;Q9H5P4;P38935;Q5BJF6;Q8IY31;P0C7T5;P23528;Q96QF0;Q8IX03;O60711;Q99608;Q9BYV8;O43236;Q9NXB0;Q9BV20;O15078;O94850;Q86VQ0;O75665;Q96NB1;O75122;Q86WG3;Q9UN36;Q9NP98;P59998;Q717R9;A6NIH7;P80723;P60953;Q9NWB7;P63000;Q3SYG4;P78347;Q99689;P08670;Q9BPU9;Q66K74;Q9Y252;Q96M29;P27815;Q15691;Q9Y250;Q6Q759;Q9NRR3;O94763;Q96GV9;A8MTZ0;Q8IYI6;Q9BV73;Q00534}

3548 Pathogen[ P0C214] interacts with 75 human  
partners:{Q9NWB7;Q9NRR3;O15078;Q9UI08;O00213;Q9UBB6;Q8IX03;O75161;P63000;Q7Z6J0;Q8IZP0;Q8IY31;O00159;P27815;Q9UM54;Q96GV9;Q9BYV8;Q8WW24;Q14678;Q9UPU9;Q63HK5;Q9NP98;P60953;P14136;A0MZ66;Q99608;Q9Y613;Q15691;Q9NZI8;Q8NEJ9;P38935;Q9Y250;O75122;Q00534;Q9NPB6;Q9H5P4;Q9NXB0;Q96KC9;Q9BPU9;P0C7T5;P78347;Q16658;P08670;Q99689;Q3SYG4;P59998;O60711;O94850;Q9Y252;Q14511;A8MTZ0;Q9HD26;O75665;Q9BV73;A6NIH7;Q5BJF6;O15144;P80723;O76083;Q96GD0;Q5T1C6;Q86WG3;Q8N3V7;Q5TD94;O94763;O43236;Q8IYI6;Q96QF0;Q9UN36;Q96M29;Q96NB1;Q66K74;Q9BV20;Q6Q759;O15511}

3549 Pathogen[ P03346] interacts with 110 human  
partners:{Q8IYI6;Q8N3V7;O00213;Q99828;Q86VQ0;P38935;Q9NQC8;Q9Y283;Q8WX93;O75112;Q14678;Q14511;P0C7T5;Q9H5P4;O15511;O15144;Q9BV20;Q9Y613;Q7Z6J0;Q6ZW61;Q9BPU9;Q8IY31;Q9NRR3;Q6TFL4;Q8IZP0;Q96GV9;O94763;Q14247;Q15691;P78347;Q99689;P80723;Q68CZ1;Q9UIF3;Q9Y6D5;Q9NZI8;A8MTZ0;Q9H3S7;O75970;Q5TD94;Q66K74;Q9HBB6;P14136;Q9NPB6;Q96M29;Q63HK5;Q8IX03;P60953;Q8IZE3;Q9UI08;Q9Y5K6;Q96KN7;O60662;P26038;Q9Y664;Q93045;Q8TAM2;O75161;P59998;Q9NXB0;O75665;Q8NEJ9;O43236;Q9P021;Q92625;Q9NWB7;Q9HD26;Q8N841;Q15019;P27815;Q3SYG4;Q9Y250;O15145;Q8N0X2;Q9Y4P9;O94850;Q5BJF6;Q8N157;P30622;O75122;Q9BYV8;P08670;Q99608;P36405;Q717R9;A6NIH7;Q16658;Q9UBB6;Q00534;Q14CM0;P23528;O15078;Q5TCZ1;Q9C0H9;Q9Y252;Q9UN36;Q6Q759;Q8IWN7;O75386;O60711;P63000;Q8WW24;Q9NSI8;Q86WG3;Q92834;Q96NB1;Q6EMB2;Q96QF0;Q9NP98;Q9BV73}

3550 Pathogen[ Q85601] interacts with 77 human  
partners:{Q8IYI6;Q9Y250;O00213;O75161;O15511;Q8WX93;Q9H5P4;O75112;P36405;Q6Q759;Q9UN36;Q9Y5K6;A8MTZ0;Q9Y613;P08670;P38935;Q9Y283;Q5TD94;Q9NWB7;P27815;P30622;P63000;Q66K74;P14136;O15078;Q92834;Q5BJF6;Q99608;P80723;P59998;O96015;Q9BXF9;P0C7T5;Q9NRR3;O75122;Q7Z6J0;O60711;Q8WW24;Q9NXB0;O00159;O75665;Q9BV73;Q96M29;Q9HD26;Q14678;Q15691;Q8N3V7;Q86VQ0;Q9BYV8;Q99689;Q9NPB6;Q3SYG4;Q9Y252;Q86WG3;Q9BPU9;P60953;A6NIH7;O94763;Q9UM54;P23528;Q00534;Q8IZP0;Q9BV20;P17677;Q9NP98;Q63HK5;Q8IX03;Q9UPU9;Q14511;Q5T1C6;P78347;O15144;Q96GV9;Q8IY31;O43236;Q96NB1;Q96QF0}

3551 Pathogen[ P14079] interacts with 159 human  
partners:{P04083;Q15691;Q9H1X1;Q9P0N5;O75112;Q9Y4P9;Q4G0U5;O75161;O95425;Q8N4P2;P09327;Q9Y664;Q8N307;P17677;Q5JQC9;Q86WG3;Q8IZ21;Q9NWB7;O95876;Q8IY31;Q9NRR3;Q9NPI0;A6NIH7;O43597;Q16658;O75781;Q96GX1;Q86WT1;Q8N0X2;Q9BV20;Q8N157;Q8WX93;Q66K74;Q68CZ1;Q9Y6D5;Q9UPU9;Q96Q45;P26038;Q92834;A0MZ66;Q8NFJ9;Q9Y250;Q717R9;Q9BXF9;Q6Q759;Q8IZP0;Q8N3I7;O00213;Q9BV73;Q9Y4F9;P57679;Q9NP98;Q96M29;Q9UM54;Q86UK5;Q14444;Q99828;O60711;Q9C0H9;Q9Y4R7;Q99608;Q8IWN7;P50552;Q96GD0;Q9Y613;Q9GZS0;Q5TD94;P02686;Q7RTU9;O94763;Q8IWN7;O15145;B4DS77;Q9HD26;O15511;P14136;P56715;A6PVC2;P36405;O95868;Q93045;O75952;P08758;A0AVF1;Q5BJF6;Q9UPM9;Q99689;Q8IX03;Q9NP74;P23528;Q9UBB6;Q5H9T9;Q8NBT0;O60610;Q9UI46;P61158;Q5T1C6;Q9NZ72;Q8TAM2;Q96QF0;Q8N3V7;Q8N841;Q9BPU9;Q14247;Q8TCU4;Q9P2L0;Q8IW40;Q4KMQ1;Q8WW24;Q9UFE4;O75366;Q969V4;Q8IYI6;Q9Y5K6;Q8TC44;P27815;Q9Y283;Q63HK5;O15078;Q6EMB2;Q9UIF3;Q9P2K1;P59998;Q9NQC8;P38935;Q9P021;A6NNG8;P08670;Q9H5P4;P80723;O75665;Q6ZW61;Q3SYG4;Q9NPB6;Q96KC9;Q8NEJ9;O96015;P78347;Q86VQ0;O75122;Q9UN36;Q5TCZ1;Q14678;O15259;A8MTZ0;Q9NXB0;Q9BYV8;P0C7T5;Q6IQ19;O15144;O94850;Q96KN7;O43236;P30622;O75970;Q96NB1;P10636;Q9UI08;Q96GV9}

3552 Pathogen[ P03383] interacts with 60 human  
partners:{O00213;Q9UBB6;Q14678;Q9NWB7;P0C7T5;Q15691;Q96QF0;Q8IY31;P08670;O15511;P78347;Q9HD26;Q99608;Q86WG3;O43236;Q99689;P60953;Q9BV73;A8MTZ0;P63000;Q5TD94;P14136;Q96M29;Q8IYI6;Q9UN36;Q00534;Q9Y613;Q96NB1;O94763;P59998;Q9NXB0;Q86VQ0;O15078;Q9NRR3;Q14511;O60711;Q9NPB6;Q8WW24;Q9BYV8;O94850;Q5BJF6;Q3SYG4;Q9BV20;Q8IX03;Q9Y252;Q717R9;Q6Q759;O75161;A6NIH7;P80723;P38935;Q8N3V7;P23528;Q9Y4P9;Q9C0H9;O75665;Q5T1C6;Q96GV9;Q9NP98;Q9

- Y250}
- 3553 Pathogen[ P03410] interacts with 162 human  
partners: {O60711;O15511;Q14CM0;O75665;O75781;Q717R9;Q9Y4R7;Q86VQ0;O94763;Q96KC9;Q6Q759;Q9UI08;Q16658;Q96NB1;P30622;Q8IZE3;Q9H5P4;Q8NFB9;Q8N3V7;O60610;O43597;P0C7T5;Q00534;Q9Y4P9;P63000;Q9BXF9;Q9NP98;Q8IZ21;Q9UI46;O15259;Q8IX03;Q3SYG4;Q6ZW61;Q8N0X2;Q96RY7;Q96Q45;Q2686;Q99608;Q8TAM2;Q9NRR3;Q8NBT0;Q96KN7;Q5JQC9;A0AVF1;P36405;Q8N307;Q86WG3;O15145;Q5TD94;O00159;P59998;O75161;Q8TCU4;O00213;Q9UIF3;Q9Y283;Q8TCX1;Q9H1X1;Q8NEJ9;O94850;Q9BYV8;A0MZ66;Q9UFE4;Q9BV20;A8MTZ0;A6NIH7;Q9Y5K6;Q9HD26;Q96GX1;O75952;Q96GD0;Q9UM54;O95425;O75970;P38935;Q99828;P50552;Q6IQ19;Q14511;Q9UN36;Q15691;P26038;O43236;Q9NP10;Q9NPE6;Q8N4P2;Q5T1C6;Q9BPU9;Q7Z6J0;Q8IY31;A6NGG8;Q9NWB7;Q7RTU9;Q9UPU9;Q9UBB6;Q8N157;Q9P0N5;Q9Y613;O15078;Q8N3I7;Q9P2K1;Q9UPM9;Q92834;O95876;Q9Y6D5;Q5BJF6;Q8IZP0;Q66K74;P08670;Q14678;P10636;Q4G0U5;Q96QF0;P60953;O95868;Q8TC44;Q8IW40;B4DS77;O75112;Q9HBG6;Q9NZ72;P17677;Q9NPB6;P80723;P14136;Q96GV9;Q9Y250;Q9NXB0;Q8IWZ6;O15144;Q14247;Q5H9T9;P78347;Q9NQC8;Q63HK5;Q9P021;Q5TCZ1;Q9C0H9;P23528;Q9P2L0;Q9Y664;Q9NP74;Q8N841;Q68CZ1;A6PVC2;Q8IWN7;Q9GZS0;O75122;Q969V4;P56715;Q96M29;Q9BV73;P27815;Q9BRK5;Q8WX93;Q93045;Q8IYI6;Q6EMB2;O96015;Q4KMQ1;Q86UK5;Q99689}
- 3554 Pathogen[ P14075] interacts with 65 human  
partners: {P60953;Q3SYG4;O00213;Q14511;Q8NEJ9;Q86WG3;Q9BYV8;Q6Q759;Q99608;Q8N3V7;Q6ZW61;O43236;Q5TD94;Q96GV9;P80723;Q9Y252;P38935;Q8IY31;Q9BV20;Q00534;P0C7T5;P14136;Q9Y250;Q86VQ0;Q9HD26;P78347;Q5T1C6;Q9Y613;O94763;O15511;P23528;Q9NXB0;Q96KC9;O15078;Q5BJF6;O75161;Q9NP98;Q6IQ19;Q96NB1;Q15691;Q9BV73;Q9UN36;Q9Y4P9;Q9BPU9;Q9NWB7;Q9UBB6;Q9NRR3;P08670;P63000;Q96QF0;Q717R9;A6NIH7;O60711;Q8IYI6;Q14678;O75665;Q9NPB6;Q96M29;P59998;Q9C0H9;A8MTZ0;O94850;Q4KMQ1;Q8IX03;Q99689}
- 3555 Pathogen[ P0C206] interacts with 126 human  
partners: {Q9BPU9;Q9NQC8;O15511;Q96KC9;O75952;Q9UM54;Q6ZW61;Q99828;P38935;P56715;P17677;Q5BJF6;Q7Z6J0;Q9BV20;Q15019;Q5JQC9;Q5TD94;Q8N3V7;Q9UPM9;Q3SYG4;Q8TAM2;O75161;Q8IY31;Q8TCU4;Q9P021;Q9P2K1;Q15691;Q9NRR3;Q9H5P4;Q14678;P59998;Q9UIF3;O94850;Q86VQ0;Q8WX93;Q9NP98;Q96GV9;Q9UI08;Q5TCZ1;Q8N3I7;P0C7T5;O15145;P30622;P10636;O43236;Q66K74;Q9Y283;Q96KN7;Q63HK5;Q8NEJ9;Q99689;O75122;O00213;Q96QF0;P27815;P78347;Q717R9;Q9Y4P9;Q5H9T9;Q9UFE4;Q93045;P63000;Q16658;Q8IWN7;Q9UPU9;Q8IZP0;O75112;P14136;Q9Y6D5;P80723;O00159;Q9NWB7;Q6IQ19;Q9NZ72;O15078;Q5T1C6;Q9H1X1;Q8N841;Q8N157;Q9NPB6;Q9BYV8;Q99608;Q9UBB6;A0MZ66;Q92625;Q9BV73;O43597;P60953;Q9C0H9;A6NGG8;O75665;O15144;P36405;A6NIH7;Q8IYI6;Q9BXF9;Q9Y5K6;Q8NFB9;Q9Y613;Q96GD0;Q4KMQ1;Q96M29;Q16181;Q9UN36;P08670;O60711;Q6Q759;Q9NXB0;Q86WG3;Q9Y252;Q96NB1;P23528;O95876;A8MTZ0;Q9HD26;Q92834;Q6EMB2;Q9Y250;O96015;O95868;Q14511;Q8IW40;Q8IX03;Q8WW24;O94763;Q00534}
- 3556 Pathogen[ P03363] interacts with 123 human  
partners: {Q9P021;Q5BJF6;Q9Y252;Q8IZP0;P0C7T5;Q8N3V7;Q9NSI8;O75161;Q8N0X2;Q9H3S7;P56715;Q9UBB6;Q6EMB2;Q86VQ0;Q66K74;Q8TAM2;Q9BYV8;Q14247;O15078;Q9GZS0;Q8NBT0;O75112;Q969V4;O00213;Q8IYI6;Q9P2K1;Q15691;Q9H1X1;Q9UN36;Q14CM0;Q9NPB6;Q9Y613;Q96M29;Q9NP98;Q9Y4P9;Q9H5P4;Q5TD94;Q99828;O75970;P63000;Q7L576;P27815;Q9NVA2;Q93045;O94850;Q99608;Q9NWB7;Q5TCZ1;Q00534;O15144;A8MTZ0;P30622;Q8IYM1;Q717R9;P59998;Q9BXF9;Q8N157;Q3SYG4;Q86WG3;Q8IY31;Q9UPU9;Q9Y250;Q9UI08;Q9NZI8;Q14511;Q6IQ19;O94763;Q9BPU9;P08670;Q9HBG6;P14136;Q8N841;Q9Y283;P23528;Q8WX93;Q96NB1;Q6ZW61;Q8IW40;A6NIH7;Q9BV20;Q12923;Q92625;Q9UIF3;Q96GV9;Q63HK5;Q7Z6J0;Q6TFL4;Q92834;Q8IWN7;Q9NRR3;O75386;P80723;Q9C004;Q8IZE3;O15259;Q9Y664;O60662;Q9UI46;Q8IX03;Q8NFB9;Q9NXB0;Q6Q759;Q16658;P60953;Q8NEJ9;Q14678;P78347;Q9Y5K6;O43236;Q9HD26;P38935;Q9BV73;O15145;O60711;Q9NQC8;Q8TC44;Q8WW24;O15511;Q96KN7;Q96QF0;O75665;Q99689;Q9C0H9}
- 3557 [Cluster 324]GO:0016585+C cellular\_component [name] chromatin remodeling complex [def]  
"Any complex that mediates dynamic changes in eukaryotic chromatin." [GOC
- 3558 Pathogen[ Q2Q067] interacts with 8 human  
partners: {O96019;O94776;Q92831;Q96GM5;Q12824;Q9Y294;Q9UIF9;P28370}
- 3559 Pathogen[ P0C214] interacts with 9 human  
partners: {Q12824;Q9UIF9;P28370;O94776;O60264;Q9Y294;Q92831;Q96GM5;O96019}
- 3560 Pathogen[ P03346] interacts with 9 human  
partners: {Q96GM5;O94776;Q12824;Q92831;O96019;O60264;Q9UIF9;P28370;Q9Y294}
- 3561 Pathogen[ Q85601] interacts with 9 human  
partners: {O94776;Q9UIF9;Q9Y294;O96019;Q92831;Q96GM5;P28370;O60264;Q12824}
- 3562 Pathogen[ P14079] interacts with 8 human  
partners: {P28370;Q9UIF9;Q96GM5;O60264;Q12824;Q96JY0;Q9Y294;O94776}
- 3563 Pathogen[ P03383] interacts with 8 human  
partners: {Q92831;O96019;Q12824;O94776;P28370;Q96GM5;Q9Y294;Q9UIF9}
- 3564 Pathogen[ P03410] interacts with 9 human  
partners: {Q92831;Q96GM5;O96019;Q9Y294;O94776;Q9UIF9;O60264;Q12824;P28370}
- 3565 Pathogen[ P14075] interacts with 8 human  
partners: {Q96GM5;Q92831;O94776;O96019;Q9UIF9;P28370;Q12824;Q9Y294}
- 3566 Pathogen[ P0C206] interacts with 10 human  
partners: {O94776;Q12824;Q92831;O96019;Q9UIF9;P28370;Q9Y294;Q96GM5;Q9UIG0;O60264}
- 3567 Pathogen[ P03363] interacts with 10 human  
partners: {Q92831;Q9Y294;O60264;O96019;Q9UIF9;Q96JY0;P28370;Q96GM5;Q12824;O94776}
- 3568 [Cluster 325]GO:0000783+C cellular\_component [name] nuclear telomere cap complex [def]  
"A complex of DNA and protein located at the end of a linear chromosome in the nucleus that protects and stabilizes a linear chromosome." [GOC
- 3569 Pathogen[ Q2Q067] interacts with 8 human  
partners: {Q9NYB0;Q15554;P54274;Q9BSI4;Q96AP0;O14746;P12956;P13010}
- 3570 Pathogen[ P0C214] interacts with 7 human  
partners: {O14746;P13010;Q9BSI4;Q15554;Q9NYB0;P12956;P54274}

3571 Pathogen[ P03346] interacts with 9 human  
partners:{Q9BSI4;Q96AP0;P12956;Q15554;P54274;P13010;O14746;Q9NUX5;Q9NYB0}

3572 Pathogen[ Q85601] interacts with 6 human  
partners:{Q15554;O14746;Q9NYB0;P54274;P13010;P12956}

3573 Pathogen[ P14079] interacts with 9 human  
partners:{P54274;O14746;Q9NUX5;P13010;Q9BSI4;P12956;Q9NYB0;Q15554;Q96AP0}

3574 Pathogen[ P03383] interacts with 7 human  
partners:{P13010;Q9NYB0;Q15554;Q9BSI4;O14746;P54274;P12956}

3575 Pathogen[ P03410] interacts with 9 human  
partners:{Q9NUX5;Q15554;Q96AP0;O14746;P54274;Q9BSI4;P12956;P13010;Q9NYB0}

3576 Pathogen[ P14075] interacts with 8 human  
partners:{P12956;O14746;Q15554;Q9BSI4;Q96AP0;P54274;P13010;Q9NYB0}

3577 Pathogen[ P0C206] interacts with 9 human  
partners:{P13010;Q96AP0;Q15554;Q9BSI4;P54274;Q9NYB0;Q9NUX5;P12956;O14746}

3578 Pathogen[ P03363] interacts with 9 human  
partners:{P12956;Q15554;P13010;Q9NYB0;O14746;Q9BSI4;Q96AP0;P54274;Q9NUX5}

3579 [Cluster 326]GO:0043034+C cellular\_component [name] costamere [def] "Regular periodic sub membranous arrays of vinculin in skeletal and cardiac muscle cells, these arrays link Z-discs to the sarcolemma and are associated with links to extracellular matrix." [GOC

3580 Pathogen[ Q2Q067] interacts with 4 human partners:{Q14315;P08727;O15061;P11532}

3581 Pathogen[ P0C214] interacts with 6 human  
partners:{P51114;O15061;Q14315;P11532;Q15124;P08727}

3582 Pathogen[ P03346] interacts with 7 human  
partners:{Q14315;P08727;Q9UHP9;Q15149;O15061;P11532;P51114}

3583 Pathogen[ Q85601] interacts with 6 human  
partners:{P11532;Q15124;Q14315;P08727;P51114;O15061}

3584 Pathogen[ P14079] interacts with 9 human  
partners:{O95425;P11532;Q9UHP9;Q15124;Q14118;O15061;Q15149;Q14315;P08727}

3585 Pathogen[ P03383] interacts with 3 human partners:{P08727;O15061;P11532}

3586 Pathogen[ P03410] interacts with 10 human  
partners:{Q9UHP9;O15061;P11532;Q15124;O95425;Q14315;Q14118;P51114;Q15149;P08727}

3587 Pathogen[ P14075] interacts with 4 human partners:{P11532;P08727;Q9UHP9;O15061}

3588 Pathogen[ P0C206] interacts with 7 human  
partners:{Q9UHP9;O15061;Q14315;P08727;Q15124;P51114;P11532}

3589 Pathogen[ P03363] interacts with 7 human  
partners:{Q9UHP9;O15061;P08727;Q15149;P11532;P51114;Q14315}

3590 [Cluster 327]GO:0044306+C cellular\_component [name] neuron projection terminus [def] "The specialized, terminal region of a neuron projection such as an axon or a dendrite." [GOC

3591 Pathogen[ Q2Q067] interacts with 3 human partners:{P11532;P78352;Q9UPA5}

3592 Pathogen[ P0C214] interacts with 3 human partners:{O95633;P11532;P78352}

3593 Pathogen[ P03346] interacts with 4 human partners:{P78352;P11532;O95633;Q9UPA5}

3594 Pathogen[ Q85601] interacts with 3 human partners:{P11532;Q9UPA5;P78352}

3595 Pathogen[ P14079] interacts with 2 human partners:{P11532;Q9UPA5}

3596 Pathogen[ P03383] interacts with 2 human partners:{P11532;P78352}

3597 Pathogen[ P03410] interacts with 3 human partners:{P11532;Q9UPA5;P78352}

3598 Pathogen[ P14075] interacts with 3 human partners:{P11532;P78352;Q9UPA5}

3599 Pathogen[ P0C206] interacts with 4 human partners:{P78352;O95633;Q9UPA5;P11532}

3600 Pathogen[ P03363] interacts with 3 human partners:{P78352;P11532;Q9UPA5}

3601 [Cluster 328]GO:0030133+C cellular\_component [name] transport vesicle [def] "Any of the vesicles of the constitutive secretory pathway, which carry cargo from the endoplasmic reticulum to the Golgi, between Golgi cisternae, or to destinations within or outside the cell." [GOC

3602 Pathogen[ Q2Q067] interacts with 9 human  
partners:{Q9UL45;Q63HQ0;Q92572;O43493;Q6QNY0;Q8TDH9;Q8NFW9;Q12904;O75843}

3603 Pathogen[ P0C214] interacts with 9 human  
partners:{Q8NFW9;Q12904;O43493;Q8TDH9;O75843;Q6QNY0;Q92572;Q9UL45;Q63HQ0}

3604 Pathogen[ P03346] interacts with 10 human  
partners:{Q92572;Q6QNY0;Q9H8W4;Q12904;O75843;Q9UL45;Q8NFW9;O43493;Q8TDH9;Q63HQ0}

3605 Pathogen[ Q85601] interacts with 7 human  
partners:{Q63HQ0;Q6QNY0;O43493;Q8NFW9;O75843;Q92572;Q8TDH9}

3606 Pathogen[ P14079] interacts with 19 human  
partners:{Q9H8W4;Q86VI1;Q6QNY0;Q63HQ0;Q9BT56;Q92572;O75843;Q8NFW9;Q9UL45;Q969E2;Q8TDH9;Q8WW43;Q6P JW8;Q9BWQ6;Q9UKR5;O43493;Q9H0V1;Q12904;Q9GZM5}

3607 Pathogen[ P03383] interacts with 7 human  
partners:{Q6QNY0;Q12904;Q92572;Q8TDH9;O43493;O75843;Q63HQ0}

3608 Pathogen[ P03410] interacts with 17 human  
partners:{Q9BT56;Q6QNY0;O75843;Q969E2;Q92572;Q8NFW9;Q12904;Q9UL45;Q9H0V1;Q6P JW8;Q9H8W4;Q8WW43;Q63HQ0;Q86VI1;O43493;Q8TDH9;Q9BWQ6}

3609 Pathogen[ P14075] interacts with 7 human  
partners:{O43493;Q12904;Q63HQ0;Q6QNY0;Q92572;Q8TDH9;O75843}

3610 Pathogen[ P0C206] interacts with 14 human  
partners:{Q9BT56;Q63HQ0;Q9UL45;Q92572;O43493;Q8NFW9;Q8TDH9;Q969E2;Q6P JW8;Q86VI1;O75843;Q6QNY0;Q9H8W4;Q12904}

3611 Pathogen[ P03363] interacts with 8 human

3612 partners:{043493;Q63HQ0;Q8NFW9;Q92572;075843;Q9H8W4;Q8TDH9;Q6QNY0}  
 [Cluster 329]GO:0005675+cellular\_component [name] holo TFIIF complex [def] "A complex that contains kinase activity directed towards the C-terminal Domain (CTD) of the largest subunit of RNA polymerase II and is essential for initiation at RNA polymerase II promoters in vitro. In *S. cerevisiae*, it is composed of the 5-subunit core (Rad3p, Tfb1p, Tfb2p, Ssl1p and Tfb4p), Ssl2p, and TFIIF (Kin28p, Ccl1p, and Tfb3p). All of the subunits have equivalents in humans

3613 Pathogen[ Q2Q067] interacts with 9 human  
 partners:{Q13889;P32780;Q92759;P51948;P50613;Q96T76;Q13888;P28715;P51946}

3614 Pathogen[ P0C214] interacts with 8 human  
 partners:{P51946;P50613;P28715;P51948;P32780;Q13888;Q92759;Q96T76}

3615 Pathogen[ P03346] interacts with 8 human  
 partners:{P28715;Q13888;Q13889;P51946;Q92759;P51948;P32780;Q96T76}

3616 Pathogen[ Q85601] interacts with 9 human  
 partners:{P51946;Q96T76;Q13888;P51948;P28715;Q92759;P32780;P50613;P19447}

3617 Pathogen[ P14079] interacts with 10 human  
 partners:{P28715;P51946;Q13889;P50613;Q13888;Q92759;P32780;Q96T76;P19447;P51948}

3618 Pathogen[ P03383] interacts with 7 human  
 partners:{Q96T76;P51948;Q13888;P50613;P51946;Q92759;P32780}

3619 Pathogen[ P03410] interacts with 10 human  
 partners:{Q96T76;Q13889;P51946;P28715;P50613;P19447;P51948;Q13888;P32780;Q92759}

3620 Pathogen[ P14075] interacts with 8 human  
 partners:{Q92759;P50613;Q13889;P51946;P32780;Q96T76;P51948;Q13888}

3621 Pathogen[ P0C206] interacts with 10 human  
 partners:{P28715;P19447;Q13888;P50613;Q92759;P32780;Q96T76;Q13889;P51946;P51948}

3622 Pathogen[ P03363] interacts with 5 human  
 partners:{Q13888;P32780;Q92759;P51946;Q96T76}

3623 [Cluster 330]GO:0046581+cellular\_component [name] intercellular canaliculus [def] "An extremely narrow tubular channel located between adjacent cells. An instance of this is the secretory canaliculi occurring between adjacent parietal cells in the gastric mucosa of vertebrates." [ISBN

3624 Pathogen[ Q2Q067] interacts with 2 human partners:{Q86UE4;Q07157}

3625 Pathogen[ P0C214] interacts with 2 human partners:{Q86UE4;Q07157}

3626 Pathogen[ P03346] interacts with 2 human partners:{Q86UE4;Q07157}

3627 Pathogen[ Q85601] interacts with 2 human partners:{Q86UE4;Q07157}

3628 Pathogen[ P14079] interacts with 2 human partners:{Q07157;Q86UE4}

3629 Pathogen[ P03383] interacts with 2 human partners:{Q86UE4;Q07157}

3630 Pathogen[ P03410] interacts with 2 human partners:{Q07157;Q86UE4}

3631 Pathogen[ P14075] interacts with 2 human partners:{Q07157;Q86UE4}

3632 Pathogen[ P0C206] interacts with 2 human partners:{Q07157;Q86UE4}

3633 Pathogen[ P03363] interacts with 2 human partners:{Q86UE4;Q07157}

3634 [Cluster 331]GO:0048471+cellular\_component [name] perinuclear region of cytoplasm [def] "Cytoplasm situated near, or occurring around, the nucleus." [GOC

3635 Pathogen[ Q2Q067] interacts with 149 human  
 partners:{P49454;P07438;P22392;O00213;Q8WXX9;O15234;P02545;Q9BZE4;Q9Y6D6;Q7Z6J0;P63104;Q9UII4;P39687;Q13875;O43747;Q8NEF9;Q8NI35;Q8NCR6;Q8IVG9;Q9H2K2;P49959;O95684;Q96QA5;Q12982;O95295;Q6VY07;P54259;Q5SQN1;O60260;Q9UDY8;Q93083;Q8TD23;Q9UJG1;Q01105;O75935;P08133;P20749;Q5T752;P05062;Q13625;O43752;Q13257;O95999;Q99933;Q15633;Q96S55;P08107;Q8IX12;Q96SN8;P42704;P26447;Q6VVB1;P13640;O43542;Q86UE4;Q9H267;Q06609;Q9BZE9;Q9UBB4;Q12962;Q86UL8;P27695;Q8IX03;O43399;O60711;Q9HAU5;P27797;Q9H7C4;Q12959;O43502;Q15004;Q13137;O94811;Q8NFW9;P04732;Q05084;O43310;Q96F07;P35527;P04733;P51959;Q9UNN5;Q9UL33;Q15437;Q12834;P53992;O95486;O43715;P06396;O75190;Q9NWT6;O94855;P0DI81;P0DI82;P50613;Q96CV9;Q9UN37;Q14677;P04406;Q9Y605;Q92993;Q16890;Q9NZU7;Q7Z7C8;P80294;P62879;Q9UQF2;Q8WY41;Q9UN36;Q9UPY8;O95996;A2IDD5;Q9Y2M5;P31946;Q8TB72;O95831;P04731;P25205;O95487;Q99700;Q14244;O96018;Q70IA6;Q9BZF9;P13682;P55327;P80297;Q8NC51;Q92597;P14672;Q66K74;Q9NRR5;Q9UMX0;O75376;P27815;P05783;Q9HCI5;Q13023;Q86YD1;Q15436;Q15056;P02795;Q9Y3A3;O14576;O75821;Q9Y224;Q9BV73;Q9UHB4;P14625}

3636 Pathogen[ P0C214] interacts with 166 human  
 partners:{Q9H7C4;Q92993;Q8TB72;Q9UKA1;Q8NFW9;O00213;O15234;Q8IX03;Q13257;O75935;P27695;Q7Z6J0;P14625;Q8IX12;Q06609;Q5T752;P05783;Q86YD1;P35527;O95633;Q9H4I8;Q96S55;P49959;Q8NCR6;Q9H201;P53992;Q8NI35;O95684;Q9NRR5;O94811;Q9UBB4;Q13625;O95295;P27815;P50613;O75190;Q9UM54;P51959;Q8TD23;Q8WXX9;Q13023;Q96SN8;Q9UDY8;P62166;O15056;P08133;P29728;Q96F07;Q7Z7C8;O75821;P42704;O43715;Q12962;Q15056;Q16613;Q70IA6;O96018;P06396;Q8NFU3;Q13875;Q9HAU5;P46060;Q15436;P13640;Q5T447;Q16890;Q86UE4;Q01105;Q99700;P25205;P05062;Q8IWE4;P80297;Q5SQN1;Q9BZE9;Q15633;Q13137;Q92597;Q9Y224;Q9HBL8;O95487;Q8NEF9;O43542;Q14244;Q99933;Q9UNN5;P04732;Q12982;Q15437;O95999;Q9Y2M5;Q6VY07;O43310;Q96QA5;Q12834;Q9UII4;P20749;O43502;P02795;O75376;P0DI81;P04733;O60711;Q9NZU7;Q15004;Q96CV9;O43752;P62879;P13682;Q12959;Q9H2K2;Q9UQF2;Q07343;P26447;O43747;Q8WY41;Q9UPY8;Q9NV92;Q96G01;P10909;O14576;P27797;P07438;Q9BV73;Q9UHB4;Q9HCI5;A2IDD5;P55327;Q9Y6D6;P80294;Q8NC51;Q86WV6;P04731;Q9BZF9;O60260;O76083;P13533;Q93083;Q05084;P22392;Q9UN37;Q9Y3A3;Q9BZE4;P02545;Q9UJG1;Q9Y605;P31946;P49454;P08107;P14672;Q99704;P39687;Q9UL33;Q9UN36;P04406;Q9UMX0;O95486;Q6VVB1;Q14677;Q66K74;P0DI82;P54259;O94855;O43399;Q9NWT6;P16278}

3637 Pathogen[ P03346] interacts with 207 human  
 partners:{P08107;Q96G01;O00213;O15234;O43752;Q96HJ5;Q9UBB4;Q8NC51;Q86UU5;Q8IX12;O14576;Q06609;P04406;O75112;Q86YD1;P05783;Q99598;O95684;Q12840;P59103;Q86UE4;O75190;P55327;Q9BZE4;P35527;P14625;Q96F07;Q7Z6J0;O95295;O43502;O43747;O94875;Q8NEF9;Q8TD23;Q5SQN1;

- 075935;Q9UHB4;Q01105;Q9UDY8;Q70IA6;Q7Z7C8;Q15004;Q9NRR5;Q9NZU7;Q96FS4;Q15633;Q9Y6D5;Q27J81;Q9UII4;P04732;Q8NCR6;Q66K74;Q8IVG9;Q13023;Q15056;Q9UMX0;Q8IX03;P06703;Q05084;P80294;Q9NV92;O75821;Q6P3W7;Q8IWE4;Q5T447;P02545;Q9BZE9;Q8WWX9;Q8TB72;Q12834;Q9Y664;P62879;Q93045;Q94855;Q95999;Q15056;Q9UKA1;Q13137;P07438;Q6UW56;P25205;P16278;Q8NI35;P04733;Q9Y6D6;Q9Y6F6;Q9H2K2;Q99700;Q16890;Q9H4I8;P13640;Q93083;P08133;Q96CV9;Q9Y224;Q15436;Q96S55;Q16667;Q9UNN5;P80297;Q9UL33;Q00221;Q86UL8;Q8N339;Q92597;Q15437;Q94972;Q9Y3A3;P46060;Q5T752;Q96SN8;Q15019;P27815;P42704;O75569;Q96AX1;P48059;Q13875;P0DI81;O43542;Q5JSH3;O75604;Q96QA5;Q99704;O96018;Q13625;Q9HAU5;Q8NFU3;P39687;P22392;O75376;O95831;Q12962;P26447;P49959;O94811;O95996;Q6VVB1;P62166;O95486;Q8WY41;P27797;Q8NFW9;Q9H201;Q9BUZ4;Q13492;Q08AE8;P20749;P0DI82;Q9ULV0;O60260;Q9BWF2;O43310;Q9H7C4;P31946;P02795;Q96S99;P63104;A2IDD5;Q92832;Q14244;Q9UJG1;P04731;Q9BZF9;O95487;P13682;P05062;Q9UHD8;P51959;P06396;P27695;Q9NWT6;Q92993;Q96JE9;O43399;P54257;Q9HBL8;Q9Y2M5;Q9Y605;Q9UPY8;Q12982;Q9UN36;Q9Y2R2;P14672;O43715;Q14677;Q6VY07;O60711;Q9H267;O14965;O95633;Q9HBF4;Q9NRD5;P53992;Q9UJG1;P54259;P58546;Q13257;P49454;Q99933;O75146;Q9UN37;Q9UBP0;Q9HCI5;Q86XN8;Q12959;Q9BV73}
- 3638 Pathogen[ Q85601] interacts with 165 human partners: {P54259;Q16890;P49454;O00213;O15234;Q86WV6;O43715;P63104;Q8NFW9;Q96CV9;P80294;Q8NC51;Q9UHB4;P08107;Q9NZU7;O43502;P02545;Q96S99;P62879;P31946;P26447;P06396;O95831;O75112;Q15004;O95684;P46060;O75190;Q9UN36;Q9UL33;Q9BZE4;Q5JSH3;P13682;P13533;O95487;Q9UBB4;Q96F07;Q9NRR5;P04732;O95295;Q14244;Q9UBP0;Q93083;Q8TD23;P39687;Q96SN8;Q7Z7C8;O75935;Q01105;Q9UDY8;Q9BZF9;Q86UL8;Q9HBF4;P27815;Q12982;Q9NWT6;P07438;Q9HBL8;Q66K74;Q16613;O43747;Q8IX12;P55145;P27797;P49959;P51959;P02795;P05062;Q15436;Q9BZE9;O43542;Q12834;Q9UJG1;Q13257;Q9H267;Q12840;O43752;O43399;Q9UKA1;Q13137;Q14677;O14965;Q8NI35;Q7Z6J0;Q9H2K2;O60711;Q8N339;Q9HAU5;Q9UNN5;O94811;P05783;P80297;Q70IA6;P25205;Q15437;Q99933;Q9BV73;Q9Y3A3;Q6VY07;Q9NQC7;P04733;Q96G01;Q8TB72;P0DI81;P42704;O14576;O96018;Q13625;O75376;P22392;Q86UE4;P50613;Q9H201;Q6VVB1;Q15633;O95486;Q8WY41;P48059;O95996;P0DI82;O60260;Q9BWF2;Q8NEF9;Q12959;A2IDD5;Q96S55;P14625;P08133;Q12962;Q9Y6D6;P35527;P04731;Q9Y2M5;Q5SQN1;Q92597;P04406;Q8IWE4;Q9UM54;Q92993;Q8WWX9;O95999;Q13023;Q13875;Q9UPY8;O94855;Q8IX03;O43310;P14672;P62166;Q06609;Q9UN37;Q99700;P27695;O75821;Q9Y224;P20749;P53992;Q05084;Q9UJG1;Q9UMX0;Q9Y605;Q9H7C4;P13640;Q86YD1;Q9HCI5}
- 3639 Pathogen[ P14079] interacts with 190 human partners: {Q6VY07;Q9UHB4;Q13492;O75112;P51959;P80297;O60260;Q01105;Q8IX12;Q8WWX9;Q9UL33;Q93083;P16278;Q12982;Q16890;Q8TD23;P55327;Q9UPY8;Q05084;Q15056;Q9Y664;Q8WY41;O75146;Q5JQC9;P54257;P29728;Q9H7C4;P02795;O75821;Q99704;O95999;O95487;O95684;Q8N339;Q99700;P59103;Q13023;Q12840;Q9UMX0;Q9UJG1;Q70IA6;Q66K74;Q9BWF2;P14672;Q14677;Q8IVG9;P24588;Q9BZE9;Q9Y6D5;P80294;P07438;O94855;P42704;P46060;Q8NFU3;O00213;Q9BV73;Q14244;P10909;O75569;P53992;Q9H2K2;O43715;Q96S99;Q13625;Q9UM54;O75190;P35527;Q92597;O60711;Q6ZMK1;Q9HCI5;Q9BUZ4;Q8TB72;Q5SQN1;Q16613;Q9BZE4;P63104;Q15078;Q9NRR5;O75503;P50613;Q86UU5;Q5T752;Q08AE8;O95831;Q9NQC7;Q9Y3A3;Q93045;Q13875;Q9UNN5;Q8NFW9;Q8IX03;Q8NC51;P22392;Q969L2;Q12962;Q96HJ5;Q9UL15;O96018;Q9UBB4;P31946;Q8NI35;Q86WV6;Q9NWT6;Q96WV6;Q96S55;Q5JSH3;Q9Y6D6;Q99933;O95996;Q92832;P08107;Q9NZ72;P13640;Q13257;Q96AX1;P62166;O94811;O43310;Q9UJG1;Q9Y2M5;O00221;P26447;P27695;O43612;Q9HAU5;Q86UE4;O95295;A2IDD5;Q96F07;O43502;Q13137;P05783;Q96G01;Q96JE9;Q9UN37;Q86UL8;P14625;P04731;P27815;P20749;Q9BZF9;Q8TCY5;O43747;O43752;O75376;Q9Y605;P54259;Q2TAA8;P49454;P04732;Q99598;Q9NV92;Q9Y6F6;P0DI82;P06703;O43399;Q15004;P0DI81;P04733;O14576;O95486;Q96JY0;P13682;Q9HBF4;P02545;P48059;Q06609;Q9UN36;O14965;O75935;Q9Y224;Q9NQC7;O15234;Q96SN8;Q8NEF9;P25205;Q96CV9;Q86YD1;Q9NZU7;O43542;P39687;Q8NCR6;Q9H267;Q92993;Q27J81;P04406;Q9H201;Q8IWE4}
- 3640 Pathogen[ P03383] interacts with 129 human partners: {Q14244;P08107;P02545;O96018;Q13257;O00213;P49454;O15234;P62879;Q86UU5;Q06609;P04733;P80294;Q01105;Q9NWT6;Q93083;Q5T752;P13640;O95684;Q86UE4;O75376;O95487;Q9UBB4;Q9UHB4;P31946;O95295;Q9UL33;Q13875;Q8TD23;Q13023;Q96SN8;Q99700;O94811;Q9BZF9;Q15004;P25205;P20749;Q6VY07;Q9BV73;O43399;P22392;O95831;Q9BZE9;P80297;Q16613;Q9BZE4;O95486;Q8TB72;Q9Y6D6;Q9UN36;Q92993;Q9UJG1;Q96S55;P05783;Q92597;Q13625;P02795;O75190;Q15436;Q8IWE4;Q12834;P35527;Q13137;Q05084;P50613;P39687;O60260;P63104;Q9HAU5;Q9UNN5;O43747;Q15437;P51959;Q96F07;O94855;O43715;O60711;P0DI82;Q9UMX0;Q8NEF9;P55145;P0DI81;P04406;P14625;O75935;Q9UJG1;O95999;Q8IX12;Q8WY41;P04732;O14965;Q99933;Q8IX03;Q9HCI5;Q9H7C4;A2IDD5;Q14677;P53992;Q9NRR5;P42704;O43752;P04731;Q9Y2M5;Q12962;O43310;O43542;P27695;Q96CV9;P14672;Q9Y3A3;Q8NC51;P07438;Q8NCR6;Q9UN37;P08133;Q16890;O75821;Q9UPY8;Q8IVG9;Q9Y605;Q96QA5;Q9Y224;Q86YD1;P54259;P13682;Q15633;Q8WWX9;P27797;P06396}
- 3641 Pathogen[ P03410] interacts with 203 human partners: {O60711;Q99700;P26447;O95684;Q99933;P20749;P0DI82;O43399;P49959;Q5JSH3;O96018;Q96HJ5;P25205;Q13137;Q9BZE9;Q9H267;Q9UNN5;Q27J81;O15234;Q8IX12;Q15633;P13682;Q9NWT6;Q96S99;P07438;O43612;P29728;Q8IWE4;Q9NRR5;O94855;P80297;Q9UJG1;P53992;Q08AE8;Q8IX03;P04733;O43747;Q12962;Q8NCR6;P06396;Q12959;Q9ULV0;O43542;Q9Y224;Q9Y605;Q9UL33;P35527;Q96SN8;O94811;P14625;Q5JQC9;Q5SQN1;Q8N339;Q9Y6F6;P16278;P39687;O00213;Q96S55;Q8NI35;P13640;Q01105;Q15004;Q9HAU5;O60260;O75376;Q8IVG9;Q96JE9;P05062;Q9NV92;Q12840;O75146;Q05084;P50613;Q92832;Q8NFW9;P06703;Q9HBL8;Q9H7C4;O75569;Q9BWF2;P49454;O75503;O95295;Q6ZMK1;O14965;Q9UM54;A2IDD5;Q9UMX0;O43715;P0DI81;Q13492;Q15436;P08133;O14576;Q14677;Q15437;O95999;Q9UN36;P04731;O95996;Q15437;O43502;P51959;P08107;Q7Z6J0;O75190;Q9UN37;Q15056;Q86UE4;O43310;Q99704;Q16613;Q9NQC7;Q96CV9;P02795;Q9Y3A3;P02545;Q93083;O95486;P42704;Q15049;Q96G01;Q9H201;Q9Y6D6;P55327;Q13023;O95831;Q9Y6D5;Q8WWX9;Q9UL15;O75935;Q9UPY8;Q9UHD8;Q9NZU7;Q66K74;P48059;P04406;Q99598;Q9UHB4;Q8NFU3;P54257;Q12834;P63104;Q13875;O75821;Q9HBF4;Q9BZF9;P27695;Q9HCI5;Q70IA6;Q12982;O75112;P54259;Q9NZ72;O43752;Q16890;Q86WV6;P33176;P13533;Q96QA5;Q92597;Q86UL8;Q96F07;Q9H2K2;P80294;Q92805;Q9UJG1;Q8TD23;Q15283;Q8NEF9;Q8WY41;Q86UU5;Q9UBB4;Q9Y664;P62166;Q13625;Q6VY07;Q92993;Q14244;Q969L2;Q8TB72;P04732;P62879;P05783;Q9BV73;P27815;P59103;Q93045;Q9BZE4;P24588;O00221;Q9Y2M5}

- 3642 Pathogen[ P14075] interacts with 133 human  
partners: {P42704; Q96F07; Q99933; O00213; O15234; Q8TB72; Q96HJ5; Q12962; O94811; P55327; Q86YD1; P05783; O96018; O95684; P04733; P80297; O95295; Q86UE4; O43752; Q9Y224; P27695; P51959; Q8TD23; P62879; Q96JE9; P08133; P50613; Q9Y6F6; Q8NC51; Q13257; Q8WWX9; Q16613; O75821; Q96QA5; Q96SN8; Q8IVG9; Q7Z7C8; P39687; Q8IX12; Q9UHB4; Q9Y6D6; Q01105; Q9UJG1; P53992; Q9UBB4; Q92993; O75376; Q9H7C4; Q13875; Q13137; Q86UU5; P07438; O95487; P02545; Q9UPY8; P04406; Q5T752; Q9UNN5; Q8NEF9; O75935; Q15437; Q93083; P13640; P25205; O14965; O95831; Q16890; P0DI81; Q9BV73; P27797; Q14677; Q9UN36; P63104; P06396; O43747; Q9NWT6; Q9HAU5; P80294; Q15436; Q9NRR5; Q9Y3A3; O95999; O43542; Q13625; Q15633; Q8WY41; O75190; Q9BZE4; O43310; P02795; Q05084; A2IDD5; Q9NV92; P08107; O43715; Q96CV9; O60711; P04731; Q9BZF9; P54259; P31946; Q92597; Q99700; Q8NCR6; O94855; Q9UL33; Q96S55; Q9Y2M5; P59103; Q9Y605; P04732; P14625; O43399; O60260; P14672; P49454; P35527; O95486; Q9UQF2; Q15004; Q12834; P22392; Q6VY07; Q06609; Q9HCI5; P0DI82; P20749; Q14244; Q9UN37; Q9UMX0; Q9BZE9; Q8IX03; Q13023}
- 3643 Pathogen[ P0C206] interacts with 205 human  
partners: {P27695; Q9NQC7; O43542; Q9UNN5; O43502; Q13875; Q12982; Q92597; Q9Y224; Q9Y3A3; P07438; P13640; P05062; P0DI82; Q15437; Q9UN37; Q9UM54; P06396; P39687; Q8NEF9; P26447; P35527; Q96SN8; Q9H201; O00221; Q96F07; P27797; P49959; Q9UBB4; O14576; P13682; Q9UBP0; Q7Z6J0; O95684; Q8WWX9; P62879; Q15019; P13533; Q5JQC9; Q9UDY8; O43747; O95633; O94855; P62166; P22392; Q96HJ5; Q5SQN1; Q13023; Q9NV92; P25205; Q9Y6D6; Q99933; P04732; Q96CV9; Q13625; Q9UMX0; Q6ZMK1; O43752; Q99598; Q96JE9; O75604; Q9UKA1; A2IDD5; O94811; Q8NFW9; O95999; Q13137; Q8NCR6; Q16890; Q6UW56; P55327; Q27J81; P29728; Q8IWE4; Q92993; Q86WV6; P49454; Q8TB72; Q9UQF2; Q9NZU7; Q9Y2R2; O95996; P04733; Q13257; Q8WY41; P55145; Q6P3W7; Q9BZE9; Q9UJG1; Q66K74; P31946; O43399; P54259; Q14244; P80294; O00213; O43715; P46060; P63104; Q9BUZ4; Q9Y605; P27815; Q5T752; Q93083; Q9NRR5; Q9NWT6; P08133; Q6VY07; Q9UPY8; O96018; Q93045; P50613; Q9H4I8; O95486; Q99700; O95831; O75112; Q9Y6D5; P51959; P04731; P48059; Q8TD23; Q8IVG9; O95487; Q9Y6F6; O60260; Q9NZ72; P05783; Q8NI35; P04406; Q96AX1; P10909; O15234; Q96S55; P08107; Q96S99; Q86XN8; O75376; Q9BV73; Q9NQX7; Q12840; Q15633; O95295; Q9BZE4; Q14677; Q99704; Q9HAU5; Q8IX12; P06703; Q9H7C4; P20749; P02545; P16278; Q86YD1; P14672; Q86UE4; Q06609; P42704; Q9BWF2; Q7Z7C8; Q9Y2M5; Q9UL33; Q12962; Q9UN36; Q92832; Q5JSH3; Q96QA5; P59103; P53992; Q86UU5; Q86UL8; O75821; O14965; Q9UHB4; Q8N339; Q9BZF9; P02795; O75935; O43310; O60711; Q16613; Q9NRR5; Q15004; Q01105; Q9HCI5; Q12959; Q9H2K2; Q8NC51; Q6VVB1; Q6VVB1; Q9H267; Q9HBL8; Q12834; Q05084; Q08AE8; Q8IX03; Q969L2; P80297; P0DI81; O75190; Q70IA6; P14625; Q96G01; Q8NFU3; Q15436}
- 3644 Pathogen[ P03363] interacts with 181 human  
partners: {P80294; Q9UNN5; Q08AE8; P05783; O75190; P80297; P62879; Q12959; O43399; P13682; Q8TB72; Q8NFU3; P46060; O94972; P49454; Q9H201; Q9BWF2; Q14244; A2IDD5; Q86YD1; Q96CV9; Q99598; O95996; Q66K74; P02795; Q8NC51; P26447; Q9UHB4; O00221; O43310; P02545; O43747; P33176; Q9Y2R2; O94811; P54259; P0DI81; Q99704; O75112; P25205; O00213; Q9UQF2; P13640; O75604; Q8NFW9; Q6UW56; O95684; Q15056; Q92597; Q13625; P31946; O75376; Q9UN36; P42704; Q9UMX0; Q16667; Q9UL33; Q9BZE4; Q9Y605; Q15436; Q96F07; P04732; Q6VVB1; O95486; Q8N302; Q86UE4; Q8WY41; Q15633; Q9H2K2; Q7L576; P27815; O94875; Q93045; P39687; Q6VY07; P0DI82; Q9H7C4; P06396; Q12962; Q9BZF9; P63104; P20749; Q969L2; Q9NRR5; Q8NEF9; Q8NCR6; Q92832; P08133; Q9UPY8; Q9H4I8; Q9UN37; Q8IYML; Q5T752; Q96QA5; P08107; Q96HJ5; Q9Y2M5; Q86UU5; Q9H267; Q14677; Q96JY0; P35527; P27797; Q9HBL8; P04731; Q9UBB4; Q7Z7C8; O15056; Q15004; Q5SQN1; Q9HAU5; O75935; Q05084; P04406; Q9NZU7; Q9UHD8; Q13257; Q9UKA1; Q9BZE9; O43542; P54257; Q96S55; O95295; Q8IWX8; Q13023; Q13875; P07438; Q8NI35; Q8TD23; P51959; Q16890; Q8IX12; Q7Z6J0; Q9HCI5; P14672; Q86UL8; Q8IVG9; P53992; P04733; O95487; Q9Y6F6; Q06609; Q27J81; O75146; Q9Y224; Q12834; Q9Y664; Q9Y3A3; Q99700; O75821; Q8IX03; Q93083; Q9Y6D6; Q9BUZ4; Q01105; Q9UJG1; O43752; Q13137; O43715; O96018; Q99933; Q12982; P55327; Q9UII4; Q70IA6; Q92993; Q8WWX9; Q9BV73; Q96FS4; Q9H3U1; O94855; O14576; O60711; Q12840; Q5T447; Q96JE9; O75569; O43502; O95831; Q96SN8; O15234}
- 3645 [Cluster 332]GO:0030131+C cellular\_component [name] clathrin adaptor complex [def] "A membrane coat adaptor complex that links clathrin to a membrane." [GOC
- 3646 Pathogen[ Q2Q067] interacts with 18 human  
partners: {O94973; Q9Y6Q5; Q10567; O43747; O95782; Q8WXE9; Q9UJY4; Q9UJY5; P48444; O00189; P63010; Q96CW1; P53677; O75843; Q9Y2T2; Q9H0R1; Q9BXS5; Q9NZ52}
- 3647 Pathogen[ P0C214] interacts with 19 human  
partners: {Q96CW1; Q9UJY5; Q9Y2T2; O00189; P48444; Q9Y6Q2; Q9H0R1; O75843; P63010; Q10567; Q9UJY4; P53677; Q9NZ52; O43747; O94973; Q9Y6Q5; Q8WXE9; O95782; Q9BXS5}
- 3648 Pathogen[ P03346] interacts with 20 human  
partners: {Q9Y6B7; P63010; O43747; Q9BXS5; Q9H0R1; O95782; O00189; Q10567; O75843; P48444; Q9Y6Q2; Q8WXE9; Q96CW1; Q9UJY4; Q9UJY5; Q9Y6Q5; O94973; Q9NZ52; P53677; Q9Y2T2}
- 3649 Pathogen[ Q85601] interacts with 20 human  
partners: {O75843; P48444; Q9Y2T2; Q9UJY4; Q96CW1; Q9BXS5; Q8WXE9; O43747; Q10567; Q9UJY5; Q9Y6Q2; O94973; Q9Y6B7; P53677; P63010; Q9Y6Q5; Q9NZ52; Q9H0R1; O00189; O95782}
- 3650 Pathogen[ P14079] interacts with 20 human  
partners: {Q96CW1; Q9Y6Q5; Q9BXS5; Q9UJY4; Q9UJY5; Q10567; Q9Y2T2; Q9Y6B7; O00189; Q9NZ52; O75843; O95782; P63010; P53677; O94973; P48444; Q9H0R1; Q8WXE9; O43747; Q9Y6Q2}
- 3651 Pathogen[ P03383] interacts with 15 human  
partners: {Q96CW1; Q9UJY4; Q8WXE9; Q10567; O00189; P53677; O75843; Q9Y2T2; P63010; O43747; Q9UJY5; O95782; Q9BXS5; O94973; Q9NZ52}
- 3652 Pathogen[ P03410] interacts with 19 human  
partners: {Q9Y6Q5; O95782; Q96CW1; Q9BXS5; Q9NZ52; O43747; O75843; P48444; Q10567; Q9UJY5; Q9Y6B7; Q8WXE9; Q9Y2T2; Q9H0R1; P53677; P63010; O94973; Q9Y6Q2; Q9UJY4}
- 3653 Pathogen[ P14075] interacts with 14 human  
partners: {Q9UJY4; O94973; Q96CW1; Q9Y2T2; Q9NZ52; O00189; Q8WXE9; O95782; O43747; P63010; O75843; Q9BXS5; Q10567; Q9UJY5}
- 3654 Pathogen[ P0C206] interacts with 20 human

partners:{P63010;Q9Y6B7;O94973;Q9Y6Q5;Q9Y6Q2;O43747;Q10567;Q9H0R1;Q8WXE9;Q9UJY4;Q9Y2T2;P53677;Q9BXS5;Q9NZ52;Q9UJY5;Q96CW1;P48444;O95782;O75843;O00189}  
 3655 Pathogen[ P03363] interacts with 18 human  
 partners:{Q9Y2T2;Q8WXE9;O43747;Q9UJY4;P48444;P53677;Q9NZ52;Q9Y6B7;Q9BXS5;O94973;Q9H0R1;P63010;O00189;O95782;O75843;Q9UJY5;Q10567;Q96CW1}  
 3656 [Cluster 333]GO:0030126+C cellular\_component [name] COPI vesicle coat [def] "One of two multimeric complexes that forms a membrane vesicle coat. The mammalian COPI subunits are called alpha-, beta-, beta'-, gamma-, delta-, epsilon- and zeta-COP. Vesicles with COPI coats are found associated with Golgi membranes at steady state." [GOC  
 3657 Pathogen[ Q2Q067] interacts with 8 human  
 partners:{O14579;Q9P299;P48444;P61923;Q9UBF2;P53618;P35606;Q9Y678}  
 3658 Pathogen[ P0C214] interacts with 8 human  
 partners:{P61923;Q9P299;O14579;P53618;P35606;P48444;Q9UBF2;Q9Y678}  
 3659 Pathogen[ P03346] interacts with 10 human  
 partners:{Q9Y678;P53618;Q9P299;O14579;P48444;Q9UPM8;Q9UBF2;P61923;Q96KG9;P35606}  
 3660 Pathogen[ Q85601] interacts with 10 human  
 partners:{P48444;O14579;Q9P299;P61923;Q9UPM8;Q9UBF2;Q9Y678;P53618;Q96KG9;P35606}  
 3661 Pathogen[ P14079] interacts with 9 human  
 partners:{P61923;P35606;Q9UPM8;Q9Y678;Q9P299;Q9UBF2;P48444;O14579;Q96KG9}  
 3662 Pathogen[ P03383] interacts with 4 human partners:{O14579;P53618;Q9Y678;Q9UBF2}  
 3663 Pathogen[ P03410] interacts with 10 human  
 partners:{Q9UPM8;Q9P299;P48444;P35606;O14579;Q96KG9;Q9Y678;P53618;P61923;Q9UBF2}  
 3664 Pathogen[ P14075] interacts with 4 human partners:{Q9UBF2;P53618;Q9Y678;O14579}  
 3665 Pathogen[ P0C206] interacts with 10 human  
 partners:{O14579;Q9Y678;P53618;Q9P299;Q96KG9;Q9UPM8;P35606;P48444;Q9UBF2;P61923}  
 3666 Pathogen[ P03363] interacts with 10 human  
 partners:{P48444;Q9Y678;O14579;P53618;Q9P299;P61923;Q96KG9;P35606;Q9UBF2;Q9UPM8}  
 3667 [Cluster 334]GO:0031616+C cellular\_component [name] spindle pole centrosome [def] "A centrosome from which one pole of a mitotic or meiotic spindle is organized." [GOC  
 3668 Pathogen[ Q2Q067] interacts with 3 human partners:{Q15398;P06748;Q9NXR1}  
 3669 Pathogen[ P0C214] interacts with 3 human partners:{P06748;Q15398;Q9NXR1}  
 3670 Pathogen[ P03346] interacts with 5 human  
 partners:{P06748;Q9NXR1;Q15398;Q9NVR7;O14965}  
 3671 Pathogen[ Q85601] interacts with 4 human partners:{Q15398;O14965;P06748;Q9NXR1}  
 3672 Pathogen[ P14079] interacts with 5 human  
 partners:{Q9NVR7;P06748;Q9NXR1;O14965;Q15398}  
 3673 Pathogen[ P03383] interacts with 2 human partners:{P06748;O14965}  
 3674 Pathogen[ P03410] interacts with 5 human  
 partners:{Q9NXR1;Q15398;P06748;O14965;Q9NVR7}  
 3675 Pathogen[ P14075] interacts with 2 human partners:{O14965;P06748}  
 3676 Pathogen[ P0C206] interacts with 5 human  
 partners:{Q9NVR7;Q9NXR1;P06748;O14965;Q15398}  
 3677 Pathogen[ P03363] interacts with 4 human partners:{Q15398;P06748;Q9NVR7;Q9NXR1}  
 3678 [Cluster 335]GO:0044444+C cellular\_component [name] cytoplasmic part [def] "Any constituent part of the cytoplasm, all of the contents of a cell excluding the plasma membrane and nucleus, but including other subcellular structures." [GOC  
 3679 Pathogen[ Q2Q067] interacts with 7 human  
 partners:{Q5T752;P36956;O14862;Q9Y6K9;Q15327;Q8IZQ1;Q9Y2M5}  
 3680 Pathogen[ P0C214] interacts with 6 human  
 partners:{Q15327;Q5T752;Q9Y6K9;Q8IZQ1;Q9Y2M5;O14862}  
 3681 Pathogen[ P03346] interacts with 8 human  
 partners:{Q9Y6K9;P43378;P36956;Q8IZQ1;Q15327;Q5T752;Q9Y2M5;O14862}  
 3682 Pathogen[ Q85601] interacts with 6 human  
 partners:{Q9Y6K9;P36956;O14862;Q15327;Q8IZQ1;Q9Y2M5}  
 3683 Pathogen[ P14079] interacts with 8 human  
 partners:{Q96BJ3;Q5T752;Q8N661;Q9Y6K9;Q9Y2M5;Q15327;O14862;P36956}  
 3684 Pathogen[ P03383] interacts with 7 human  
 partners:{O14862;Q9Y6K9;Q5T752;Q8IZQ1;Q15327;Q9Y2M5;Q96BJ3}  
 3685 Pathogen[ P03410] interacts with 9 human  
 partners:{P36956;Q8N661;O14862;Q15327;Q96BJ3;Q9Y6K9;Q9Y2M5;Q5T752;Q8IZQ1}  
 3686 Pathogen[ P14075] interacts with 8 human  
 partners:{Q15327;Q8IZQ1;Q96BJ3;Q5T752;O14862;Q9Y6K9;Q9Y2M5;Q8N661}  
 3687 Pathogen[ P0C206] interacts with 9 human  
 partners:{Q9Y6K9;O14862;Q15327;Q8N661;P36956;Q8IZQ1;Q5T752;Q96BJ3;Q9Y2M5}  
 3688 Pathogen[ P03363] interacts with 7 human  
 partners:{P43378;Q9Y6K9;Q15327;Q5T752;Q9Y2M5;O14862;Q8IZQ1}  
 3689 [Cluster 336]GO:0031315+C cellular\_component [name] extrinsic to mitochondrial outer membrane [def] "Loosely bound to one surface of the mitochondrial outer membrane, but not integrated into the hydrophobic region." [GOC  
 3690 Pathogen[ Q2Q067] interacts with 1 human partners:{P56693}  
 3691 Pathogen[ P0C214] interacts with 2 human partners:{O15056;P56693}  
 3692 Pathogen[ P03346] interacts with 2 human partners:{P56693;O15056}  
 3693 Pathogen[ Q85601] interacts with 1 human partners:{P56693}  
 3694 Pathogen[ P14079] interacts with 1 human partners:{P56693}  
 3695 Pathogen[ P03383] interacts with 1 human partners:{P56693}  
 3696 Pathogen[ P03410] interacts with 1 human partners:{P56693}

3697 Pathogen[ P14075] interacts with 1 human partners:{P56693}

3698 Pathogen[ P0C206] interacts with 1 human partners:{P56693}

3699 Pathogen[ P03363] interacts with 2 human partners:{P56693;O15056}

3700 [Cluster 337]GO:0005802+C cellular\_component [name] trans-Golgi network [def] "The network of interconnected tubular and cisternal structures located at the side of the Golgi apparatus distal to the endoplasmic reticulum, from which secretory vesicles emerge. The trans-Golgi network is important in the later stages of protein secretion where it is thought to play a key role in the sorting and targeting of secreted proteins to the correct destination." [GOC

3701 Pathogen[ Q2Q067] interacts with 26 human partners:{Q9BSU1;Q9Y6D6;O15126;O43747;O43493;Q9C005;P53675;Q5VYK3;Q9UJY4;O43752;Q14457;Q8TCI5;P63010;Q9BUX1;Q6ICB4;Q9Y3M2;Q9UIL1;Q96CV9;Q8IWIJ2;Q13439;O75122;Q9H4A6;Q9NR09;P09497;Q99700;Q9NZ52}

3702 Pathogen[ P0C214] interacts with 29 human partners:{Q14457;Q9BSU1;Q6ICB4;Q8IWIJ2;P08294;Q9H4A6;Q5VYK3;Q8TCI5;O43493;Q99700;P63010;O75122;P53675;Q9UJY4;O15126;Q9Y3M2;Q9BUX1;Q9BZQ4;Q9C005;Q9UIL1;Q9NZ52;Q96CV9;O43752;O43747;Q96G01;Q13439;P09497;Q9Y6D6;Q9NR09}

3703 Pathogen[ P03346] interacts with 37 human partners:{Q13439;Q5JU85;Q96G01;Q9BSU1;O43752;Q15438;Q9Y6B7;Q9BUX1;Q9C005;P63010;Q9Y3M2;O43747;Q9UIL1;Q9H4A6;Q9Y6D5;Q14457;Q9Y6D6;Q99700;Q96CV9;P20340;Q7Z3U7;Q8N4B1;Q9UJY4;Q5VYK3;P53675;Q6DN90;O15126;O75122;Q9UPP2;P09497;Q9NR09;Q8TCI5;O43493;Q6ICB4;Q9NZ52;Q8IWIJ2;Q9NWB1}

3704 Pathogen[ Q85601] interacts with 28 human partners:{Q14457;Q9BSU1;Q5VYK3;Q8IWIJ2;O15126;O43493;Q96CV9;P53675;Q9BUX1;Q9UJY4;Q9Y3M2;Q13439;O43747;O43752;Q8TCI5;O75122;Q9C005;Q6ICB4;Q96G01;Q9H4A6;Q9Y6B7;P09497;Q9NR09;Q9Y6D6;P63010;Q9NZ52;Q9UIL1;Q99700}

3705 Pathogen[ P14079] interacts with 39 human partners:{Q16655;Q9UPP2;Q9C005;Q9UJY4;Q9NYV7;Q9NXE4;Q99700;Q9BSU1;Q9Y6D5;Q9Y6B7;Q9UIL1;Q13439;Q5VYK3;Q9NZ52;Q9NR09;Q9BZQ4;Q9Y6D6;Q8TCI5;Q8N4B1;A4D1B5;P09497;Q8IWIJ2;P63010;Q96G01;Q6PJW8;Q6ICB4;Q9Y3M2;O43747;O43752;P53675;O43493;Q9NWB1;Q6DN90;Q14457;Q9BUX1;O75122;Q9H4A6;Q15438;Q96CV9}

3706 Pathogen[ P03383] interacts with 24 human partners:{Q14457;Q9BSU1;Q9UJY4;Q8IWIJ2;O15126;Q9BUX1;Q13439;Q5VYK3;Q99700;Q9Y6D6;P53675;O43493;Q9UIL1;Q8TCI5;P63010;O43747;Q9C005;Q9Y3M2;Q9H4A6;Q9NR09;O43752;Q96CV9;P09497;Q9NZ52}

3707 Pathogen[ P03410] interacts with 41 human partners:{Q99700;Q9NWB1;A4D1B5;Q9NZ52;Q8N4B1;O43747;Q9Y3M2;Q16655;Q9BUX1;Q14457;Q5VYK3;Q9H4A6;Q9Y6B7;Q9NXE4;Q9C005;Q9NR09;Q9UIL1;Q9BSU1;Q96CV9;Q9UPP2;P09497;Q6PJW8;Q96G01;Q9Y6D6;Q9Y6D5;Q6ICB4;Q15438;P63010;Q8TCI5;O43752;Q92805;P53675;Q13439;O43493;Q7Z3U7;O15126;O75122;Q9BZQ4;Q8IWIJ2;Q9UJY4;Q5MNNZ9}

3708 Pathogen[ P14075] interacts with 25 human partners:{Q14457;Q9BSU1;P09497;Q9UJY4;O43752;P53675;Q9NZ52;O15126;Q9Y6D6;Q16655;O43493;Q9C005;Q8IWIJ2;Q8TCI5;O43747;Q9BUX1;Q9UIL1;P63010;Q13439;Q9NR09;Q96CV9;Q99700;Q9Y3M2;Q9H4A6;Q5VYK3}

3709 Pathogen[ P0C206] interacts with 34 human partners:{Q13439;Q8TCI5;P63010;Q16655;Q9C005;P53675;Q9Y6B7;Q9H4A6;Q9BSU1;Q9BUX1;O43747;Q9Y6D6;Q96CV9;O43752;O43493;Q9UIL1;Q14457;Q6ICB4;Q9UJY4;O75122;Q6PJW8;Q9NR09;Q99700;Q9NZ52;P09497;Q9Y6D5;A4D1B5;Q9BZQ4;Q5VYK3;Q8N4B1;Q9UPP2;O15126;Q8IWIJ2;Q96G01}

3710 Pathogen[ P03363] interacts with 32 human partners:{Q9BSU1;O43493;Q15438;Q96CV9;Q6ICB4;O43747;Q9UJY4;Q14457;Q9UPP2;Q13439;Q9NZ52;Q8TCI5;Q9BUX1;Q9Y3M2;Q9Y6B7;Q9H4A6;Q8N4B1;Q9C005;Q9NR09;P63010;Q9NWB1;Q5JU85;Q8IWIJ2;O15126;Q9UIL1;Q6DN90;Q99700;Q9Y6D6;P09497;O43752;P53675;Q5VYK3}

3711 [Cluster 338]GO:0005884+C cellular\_component [name] actin filament [def] "A filamentous structure formed of a two-stranded helical polymer of the protein actin and associated proteins. Actin filaments are a major component of the contractile apparatus of skeletal muscle and the microfilaments of the cytoskeleton of eukaryotic cells. The filaments, comprising polymerized globular actin molecules, appear as flexible structures with a diameter of 5-9 nm. They are organized into a variety of linear bundles, two-dimensional networks, and three dimensional gels. In the cytoskeleton they are most highly concentrated in the cortex of the cell just beneath the plasma membrane." [GOC

3712 Pathogen[ Q2Q067] interacts with 5 human partners:{Q8WX93;O43516;O95996;Q96IZ0;Q96EY1}

3713 Pathogen[ P0C214] interacts with 4 human partners:{P68133;Q96IZ0;O43516;Q96EY1}

3714 Pathogen[ P03346] interacts with 6 human partners:{Q8WX93;Q9P253;O43516;Q96IZ0;O95996;Q96EY1}

3715 Pathogen[ Q85601] interacts with 7 human partners:{Q96IZ0;Q8WX93;P68133;Q9P253;O43516;O95996;Q96EY1}

3716 Pathogen[ P14079] interacts with 13 human partners:{O43516;Q8WX93;Q9H269;P68032;P61158;O95996;Q96IZ0;Q9P253;O43903;Q05682;P68133;Q96EY1;Q6JBY9}

3717 Pathogen[ P03383] interacts with 3 human partners:{Q96IZ0;O43516;Q96EY1}

3718 Pathogen[ P03410] interacts with 11 human partners:{O43903;O43516;Q05682;Q9P253;O95996;Q96IZ0;P68133;Q6JBY9;Q9H269;Q8WX93;Q96EY1}

3719 Pathogen[ P14075] interacts with 4 human partners:{Q96IZ0;Q6JBY9;O43516;Q96EY1}

3720 Pathogen[ P0C206] interacts with 8 human



3721 partners:{Q6JBY9;Q96IZ0;O43516;Q8WX93;O95996;P68133;Q9P253;Q96EY1}  
 Pathogen[ P03363] interacts with 6 human

3722 [Cluster 339]GO:0048786+C cellular\_component [name] presynaptic active zone [def] "A specialized region of the plasma membrane and cell cortex of a presynaptic neuron encompasses a region of the plasma membrane where synaptic vesicles dock and fuse, synaptic vesicles, and a specialized cortical cytoskeletal matrix." [GOC

3723 Pathogen[ Q2Q067] interacts with 3 human partners:{Q15596;Q9UHK0;Q9UPA5}  
 3724 Pathogen[ P0C214] interacts with 2 human partners:{Q9UHK0;Q15596}  
 3725 Pathogen[ P03346] interacts with 3 human partners:{Q15596;Q9UHK0;Q9UPA5}  
 3726 Pathogen[ Q85601] interacts with 3 human partners:{Q15596;Q9UPA5;Q9UHK0}  
 3727 Pathogen[ P14079] interacts with 3 human partners:{Q15596;Q9UPA5;Q9UHK0}  
 3728 Pathogen[ P03383] interacts with 2 human partners:{Q15596;Q9UHK0}  
 3729 Pathogen[ P03410] interacts with 3 human partners:{Q9UHK0;Q9UPA5;Q15596}  
 3730 Pathogen[ P14075] interacts with 3 human partners:{Q9UHK0;Q9UPA5;Q15596}  
 3731 Pathogen[ P0C206] interacts with 3 human partners:{Q9UPA5;Q9UHK0;Q15596}  
 3732 Pathogen[ P03363] interacts with 3 human partners:{Q9UHK0;Q15596;Q9UPA5}

3733 [Cluster 340]GO:0008043+C cellular\_component [name] intracellular ferritin complex [def] "A ferritin complex located in the cell. Intracellular ferritin complexes contain 24 subunits, in a mixture of L (light) chains and H (heavy) chains." [GOC

3734 Pathogen[ Q2Q067] interacts with 1 human partners:{P02792}  
 3735 Pathogen[ P0C214] interacts with 2 human partners:{P02794;P02792}  
 3736 Pathogen[ P03346] interacts with 2 human partners:{P02792;P02794}  
 3737 Pathogen[ Q85601] interacts with 2 human partners:{P02792;P02794}  
 3738 Pathogen[ P14079] interacts with 1 human partners:{P02794}  
 3739 Pathogen[ P03383] interacts with 1 human partners:{P02794}  
 3740 Pathogen[ P03410] interacts with 2 human partners:{P02794;P02792}  
 3741 Pathogen[ P14075] interacts with 1 human partners:{P02794}  
 3742 Pathogen[ P0C206] interacts with 2 human partners:{P02794;P02792}  
 3743 Pathogen[ P03363] interacts with 1 human partners:{P02794}

3744 [Cluster 341]GO:0016021+C cellular\_component [name] integral to membrane [def] "Penetrating at least one phospholipid bilayer of a membrane. May also refer to the state of being buried in the bilayer with no exposure outside the bilayer. When used to describe a protein, indicates that all or part of the peptide sequence is embedded in the membrane." [GOC

3745 Pathogen[ Q2Q067] interacts with 75 human  
 partners:{Q7Z3C6;Q96TC7;Q8NG57;Q9UH99;P50402;O14786;Q96HA1;O15126;Q8N9R8;Q9H5J4;O43493;P42167;Q6RW13;Q8IYF1;Q86XL3;Q96JI7;Q9UJG1;Q96DC7;A8CG34;A8MVW5;O60238;O43752;O14662;P18850;P36956;P53801;Q5BJF2;Q8NF91;Q86UE4;P11166;Q15629;Q8N9A8;O75381;Q9BW60;Q96G23;O15162;O95159;O75396;O15127;Q9GZR5;Q9BVI4;Q15388;P26678;Q8TEM1;Q9GZY8;O76095;Q9HD36;Q68CJ9;Q9NR77;O00198;Q9BVC6;Q9P0J0;Q6P9B9;Q14739;Q8TAC9;O95476;A1L3X0;Q9BVT8;Q12983;Q9HB03;O15155;O14925;Q9P0U1;P40855;Q9BQE4;Q14241;Q9UBX3;Q96E16;A6NLF2;P14672;Q9P2W9;Q99717;Q96A26;Q15797;Q9NX95}

3746 Pathogen[ P0C214] interacts with 89 human  
 partners:{O00198;Q9UM00;Q9HA82;P18850;Q8N9A8;Q14739;Q9NXB9;O14786;Q99643;O14681;Q8N2H4;Q15388;Q6RW13;Q13505;Q75NE6;Q96JI7;Q8NG57;Q8TEM1;Q8TAC9;P40855;A8MVW5;Q9Y512;Q9GZR5;Q9BVI4;Q68CJ9;O43493;O75381;O15127;A6NLF2;Q96TC7;Q86UE4;A8CG34;Q9HB03;Q96DC7;P11166;Q9UH99;Q9UBX3;Q9NYP7;O95298;P11168;O14925;Q8NF91;Q8TDB4;P49257;A1L3X0;Q8N9R8;O15126;Q9P0J0;O15162;P50402;Q9NSK7;Q86XL3;Q9HD36;Q96G23;Q9BVT8;Q9NX95;Q9NR77;O95202;O43752;Q5JTH9;Q12983;O95476;Q9NV92;Q15629;Q9BVC6;O60238;Q3ZCQ8;O14521;O75396;Q9UJG1;Q99717;Q86WV6;Q9BW60;Q9P0U1;Q8IYF1;Q15797;Q9UJG1;Q9BQE4;Q9H902;P14672;P26678;Q9GZY8;Q9H3K2;O15155;Q7Z3C6;Q9P2W9;Q96E16;Q14241;Q96HA1}

3747 Pathogen[ P03346] interacts with 144 human  
 partners:{Q8TEM1;Q9BW60;O14925;Q6P9B9;Q9H0H0;Q3YBM2;O43752;Q96HJ5;O95159;Q14739;Q7Z3C6;Q3SY89;Q9P2W9;Q8NBJ4;Q9NS69;Q86UE4;Q96BA8;P36956;Q6P1Q0;Q96DC7;Q9UBX3;Q9H3K2;Q15797;Q70SY1;Q12772;O60238;P26678;Q96JI7;Q8IYW1;P49257;Q8WXH0;A8MVW5;P17152;Q15629;Q14789;Q9UH99;Q9P0U1;Q969X5;Q96A26;Q6UWF3;Q96B42;Q96E16;Q9NX95;Q12981;Q9BVT8;Q13190;Q96C03;Q93050;Q9P2Y4;O75396;Q96TC7;Q99717;Q9BQQ7;Q6ISU1;Q9NV92;Q12983;Q9UID3;Q53HI1;Q8TDB4;Q9BVI4;Q5BJF2;P18850;O75381;P48553;Q9Y3P8;Q9BTX1;Q9H902;Q6ZPB5;Q6UW56;O00299;Q9Y6F6;Q9BUN8;Q8TAC9;Q9H5J4;Q8N2H4;Q9Y512;Q16891;Q96G23;Q8N9A8;Q2LD37;O00198;Q15041;Q9NR77;Q9HB03;P11166;O15126;Q07820;O95833;Q6ZMZ3;P50402;O95476;Q9BVC6;Q96KC8;Q68CJ9;Q5JRA6;Q8N357;Q9HCU5;Q3ZCQ8;A6NDV4;A8CG34;A6NLF2;P56589;Q15388;Q8IYF1;Q8NG57;Q9HC24;P53801;Q8WUY8;P40855;Q5H9S7;Q9UI14;O43493;Q6RW13;Q96HA1;Q86XL3;Q15035;O76095;Q9P0J0;Q8TEY5;P49755;O95202;Q8NF91;P14672;O94901;P62952;Q96011;Q14C87;O15155;Q9GZY8;Q9HD36;O14662;P42167;Q96DX8;Q8N9R8;Q9UJG1;Q00765;Q15363;O14786;Q9BVK6;Q86Y82;Q14241;Q9UBP0;O15127;O15162}

3748 Pathogen[ Q85601] interacts with 86 human  
 partners:{Q8TEM1;O14925;Q68CJ9;Q86WV6;O15126;O43493;Q9P0J0;P11168;Q15388;Q8N2H4;A1L3X0;O75396;Q9HD36;Q8N9R8;Q15629;A8CG34;Q96DC7;Q8TAC9;Q9UBP0;Q9UBX3;Q15797;A8MVW5;O15155;Q14241;Q9UJG1;Q93050;Q8TDB4;Q12981;Q12772;Q9NSK7;O14786;Q9P2W9;O00198;Q7Z3C6;O43752;Q8NG57;Q9UH99;Q86XL3;Q9Y512;Q9BW60;P11166;Q9UM00;Q9H5J4;P36956;P49257;Q99717;Q15035;Q96G23;Q8N9A8;A6NLF2;O95159;Q3ZCQ8;Q9NR77;P18850;Q9H902;Q9HB03;Q6RW13;Q86UE4;Q96JI7;O95476;P50402;O76095;Q12983;O15127;Q96TC7;Q9GZR5;Q13505;O15162;Q96HA1;Q9NX95;O75381;Q9BVT8;Q8NF91;P14672;O94901;Q8IYF1;O60238;Q9GZY8;Q96E16;Q9BVI4;O14662;Q9UID3;Q9UJG1;P40855;Q14739;Q9BQE4}

3749 Pathogen[ P14079] interacts with 880 human  
 partners:{Q5VV42;Q96DC7;Q5SRI9;Q15629;Q8IV31;Q16655;O94923;F5H4A9;Q8N6M3;A8MZ97;Q8IYW

9;Q5TGZ0;Q9BQD7;Q3SXP7;O43292;Q8NEQ5;P0CG08;Q9Y5Y5;Q7Z4L0;Q8NBV4;Q5RI15;Q9H1C7;Q9UDX5;Q9BW72;Q9NUR3;O95070;O95159;Q8N1Y9;O75192;Q9PON5;Q3ZCQ8;Q9NRQ2;O43674;Q14CX5;O75324;Q96G79;A5PLL7;P13164;Q9H061;O43677;P0C6T2;Q96JI7;Q8N4H5;Q14789;Q8N3T6;Q3MIW9;Q14C87;Q6ZVE7;Q5T2E6;Q9Y5U4;Q96HA1;Q9H295;Q9NQG1;B1AL88;O95415;Q96HA9;Q6IEE8;O43759;Q969M3;C9JVW0;P49257;P57088;P0C874;Q9BTD3;O15162;O95169;Q8NAN2;A8MV81;Q14242;Q7Z3J2;Q9B7P3;P56134;C9JDP6;E2RYF6;Q16873;Q86VE9;Q8NW7;P17152;Q8B268;P60468;Q3ZAQ7;Q8IXB3;O14828;Q14241;P40855;Q0VDE8;Q9H799;P49069;Q6PP77;Q96N68;Q53RY4;Q9BU23;A6NKL6;O14668;O43505;Q7Z7N9;Q14761;Q5T2J5;O75072;Q9NYV7;Q9BQE4;Q5T292;Q9UID3;Q1HG44;Q9NPI0;Q5VSG8;Q4LDR2;A1L3X0;P61570;Q96A33;Q96JN2;O95139;Q6NUJ2;Q24JP5;Q8NCQ3;Q12887;Q9Y519;Q6UX01;Q8N112;Q8N755;Q9P055;Q8NFM7;Q96ER9;Q86WI0;Q6ZVK1;Q8NBQ7;Q6NVV3;Q5T5W8;Q96S52;Q2VYF4;P56589;O43736;Q1HG43;Q96DZ9;Q8N6L1;Q68CJ9;P20292;Q5T6L9;Q6UWF5;Q96GQ5;Q6UX68;Q9BV87;Q9BRL7;Q9NKE4;Q0D2K0;P09912;Q86VI4;P56750;Q9NX95;Q13505;P0C7N4;Q5VTT2;Q96RQ1;Q9NWF4;Q6GV28;A6NDV4;Q96DS6;Q8WWF3;Q9BVC6;Q86VY9;O15258;Q15155;Q96CP7;Q68DH5;Q9NSK7;Q5T4T1;Q8N1W0;Q13021;Q96GX1;P56378;Q86W33;Q9NPF8;P39656;Q8WVX3;Q92542;Q08722;Q13323;Q3B7S5;Q9NZ42;Q9HBM0;O76095;A6NM45;P84157;Q3MIR4;Q8N2C7;Q9P0U1;Q92545;Q7Z388;Q5GH72;Q9NZ45;A6NLE4;Q4G0N0;Q9P2Y4;P14672;Q9BX73;O00400;Q6ZPB5;Q9BVK6;A8CG34;Q15041;Q2T9K0;Q9UKH3;Q902F9;O95167;Q6RW13;Q96Q45;O94901;Q5SWH9;Q9NUB4;Q6ZT21;P57054;Q24JQ0;P00395;Q96GL9;Q8N9S7;Q6ISU1;Q8WWA1;A6NLO5;P00403;Q8NE00;Q9HC24;Q96I36;Q9BXX5;P49788;Q96K49;P43307;Q96DD7;Q8NG57;Q629K1;Q2PZ11;Q8TEM1;Q8IW70;Q16585;Q9NXL6;Q8WV48;Q8NE01;Q8N9A8;Q16891;Q9BXS4;Q5GH76;Q6UWF3;Q5JRV8;Q6NXN4;Q15070;Q8WV83;Q96N19;Q96DZ7;Q9BUB7;Q6P1Q0;Q9HA82;Q96KA5;Q587I9;Q9H9K5;Q9UI14;Q14D33;Q9P1Z9;Q6P9B9;Q8NE86;Q9BSA9;O60895;Q99442;Q9BT22;A1A5B4;Q96Q80;Q14739;A8MVW5;Q9BSK0;Q86Y39;Q9BRB3;Q9H0R3;A6NJY4;P04844;Q5VUD6;Q8WUH6;P81408;P57679;Q9NV29;Q6UWW9;Q9Y2B2;Q9GZP9;O71037;Q86UK5;Q15526;Q4G0I0;Q8IXX5;Q86XL3;O94777;B4DJY2;Q5R3K3;P57738;P0C7Q5;Q14118;Q7Z3C6;Q9HOC3;O15155;Q9NXX5;O75352;Q0P670;O94905;P11166;Q9NXX94;Q5BJF2;Q15797;Q6ZRR5;Q8N326;Q969N2;Q9HBV2;Q5T1Q4;Q96NT5;P62952;Q5SNT2;Q9HB03;O14925;Q5H9R4;Q9BRQ5;Q9NS69;P0C7Q6;A6NFC5;Q9NQ90;Q5QFB9;P61550;Q9H2X8;Q9NRC5;O14683;Q71RC9;Q5XG99;Q96JX3;O00501;B9EJG8;Q9H665;Q6ZSS7;P58511;P33947;Q9P2X0;A2RUG3;Q7Z434;O96005;Q8NEA5;Q9BVV7;O00461;Q9BVI4;A6PVL3;Q15363;Q15388;Q8N292;Q9NPR9;Q9H841;O75069;Q2LD37;Q9BVT8;Q9BUN8;Q9UHJ9;Q15012;Q9H813;Q96HH6;Q5JPE7;O75396;Q6ZSJ9;Q12772;Q5W0B7;A6NDP7;P24390;Q9WY22;Q96HH4;Q9HD87;Q9NQX5;B4DS77;Q9UL01;Q9H8M9;Q8NHS1;Q8N4L1;O75503;Q8N0W7;Q9NV12;Q03V5L5;Q8N6I4;Q5VYP0;Q8IVJ8;P27544;A6NDX4;Q9Y5F9;Q7Z5M5;Q9NXX5;Q9NXX5;Q8N205;Q8N337;Q9NY21;Q6PH9;A6NGA9;Q9Y6I8;Q9UBU6;Q92629;Q96D05;P48230;P54826;Q8N6F1;Q5U3C3;Q9P0I2;Q8NFR3;Q8N609;Q96GC9;Q8NCG7;Q8LUX1;Q2M385;Q7RTS6;Q96LL3;Q16586;Q8N614;O96011;Q8ND61;Q9Y287;Q6P2H8;Q8NBR0;A6NCI5;Q7L0L9;Q9NPN0;Q8N661;Q14DG7;P03928;Q8NBJ4;Q9H0A3;Q9Y2Y6;Q9BVK8;Q86UW1;P30408;A6NLF2;Q96384;A6NGB7;Q8N114;P42167;Q5RGS2;Q5JTV8;O00519;Q9NWD8;Q6ICL7;O75425;Q969L02;Q9GZU3;Q6N075;Q6UXU6;Q8TAC9;Q9BVL1;O00631;A6NML5;Q9UK28;Q96HJ5;A6NKF7;Q969E2;Q969X5;Q3SY89;Q5H9S7;Q9UN42;Q96EX1;Q8N201;A6NKG6;O75915;P49755;O43676;Q9NXX0;Q86XJ0;Q9H6D3;O75787;Q12912;Q86WV6;Q86T03;Q53FP2;O75949;O00264;Q6ZP80;Q9Y6X1;Q9BQ49;P69849;Q96G23;Q9NW97;Q9BZ97;B2RFX0;Q9BVW6;Q5GH73;P55808;A6NDL88;Q6ZQQ2;Q8NC54;Q9HD36;O75477;P0C7U9;Q9BYT9;Q96SN7;Q9HAB3;Q5HYL7;Q4VXA5;Q8NC56;Q4ADV7;Q96J86;A8MVW0;O95866;Q6ZNB6;Q9BVV8;Q5JRA6;Q7Z5S9;Q8N2U0;Q9HC47;Q9NS64;Q5VZ72;Q8IZA0;Q8NBT3;Q12981;Q9H720;A2A2V5;O00559;Q8N8Q9;Q9NZ43;Q8NBN3;P00156;Q9BTV4;Q8WXH0;Q8WZ55;Q5VVP1;Q96ES6;Q96RV3;Q00LT1;Q6ZMZ3;Q9UJG1;O95292;Q7Z412;Q8WVVE6;Q96B33;P09669;Q96145;Q13326;P46695;Q9P0J0;Q8IVP5;Q5GH77;O14653;Q6ZMB5;Q9BQA9;Q9Y512;Q9BQJ4;Q12767;Q96HV5;Q9Y5U8;Q96B96;Q9Y693;Q6ZW34;Q8WUY8;Q6P1S2;O14836;Q53H11;Q12983;P51811;Q9P0S9;Q75NE6;Q6P499;Q96N35;P60059;B2RUZ9;Q9Y284;Q969W0;Q15035;Q8NDB6;Q9NWR8;Q96A26;Q7Z5B4;P0DJ07;Q9BZL3;Q9H6X4;Q66K66;Q9NPL8;Q86UE4;Q92982;Q9H354;Q9NX77;O14662;O14569;Q8IX19;P61803;P10620;Q69YG0;B7ZAQ6;F2Z333;Q9H490;Q96LD1;Q8TDB4;Q8IYJ0;Q9H6L5;A6NH52;Q96GE9;Q8N2H4;Q96FB5;Q9H0H0;A6NFA0;Q8WW43;O42043;Q86V85;Q96BM0;Q8N6L7;Q8I WV1;Q6UX71;O60831;Q8IWD5;Q8NA58;Q5VZI3;Q99595;P18850;Q4ZIN3;Q96S66;Q96HP8;Q6ZUX7;Q9NUM4;Q9NQ60;Q6PJW8;Q8N682;Q96PS6;Q9BWK6;A6NKF9;Q9UKR5;Q5JTH9;Q902F8;Q8N9M5;Q8TAZ6;Q5BJD5;Q8WV19;Q2WJG8;Q8WVW7;Q93050;A6NFX4;Q9H3K2;A0PJX8;C9JH25;Q86WC4;A5D6W6;Q6P9G4;P60602;Q5T7R7;Q9Y5Z9;Q6PEX7;Q8NDZ6;Q8TCY5;P03923;Q8N8J7;P0DJ93;Q8N9R8;Q6GMR7;Q6ZU69;Q9UM00;O43752;A0PK05;A8MVS5;C9JI98;O95563;P24310;Q9NVM1;O15260;Q96AN5;O00198;Q92896;Q9UKB5;O95476;Q8N6S5;O43561;P03897;Q9NVV5;Q9HBU9;Q96BY9;Q8N511;Q9Y3P4;Q96AW1;Q8IYF1;P15954;B8ZZ34;Q9BSE2;Q96M19;Q96SA4;Q8IWB4;O75204;P15941;Q69YZ2;Q9Y384;Q9GZR5;Q15011;O14521;Q96DX8;Q9NRP0;P60606;Q6UE05;Q8NCS4;P61567;Q6UWH6;O75381;Q9H0V9;O15239;Q9GZY8;O43493;P0DI80;Q8NBD8;Q96AA3;Q9HC07;Q5SRD1;Q16625;Q9NS93;Q00765;Q9Y2R0;Q9H0V1;Q6UX65;P26678;Q6ZN68;Q9NV92;P61566;Q9Y6F6;Q9NWW5;P48553;Q8N4K4;Q8N8D7;Q96F05;Q969W9;Q5FWE3;Q8N1N2;A2RRL7;Q8WVI0;Q96A57;Q5J8M3;P61165;Q9H2L4;Q53S58;Q5VUB5;P50402;Q8NPF1;Q7L4S7;Q96SK2;Q8TBQ9;Q7Z3B0;C9JQI7;Q9NWS6;Q9GZY4;Q96KF7;Q8IYS2;Q96B42;Q9BWB0;Q9UH99;Q6UXV1;Q7RTP0;Q8TF08;Q9H7X2;P53801;Q96AQ2;Q0VDI3;Q8N6K0;Q96FX8;Q86UP9;Q6IEE7;Q86XT9;Q9P2W9;O60238;Q96HE8;Q6UXD1;Q6PEY1;Q5T9Z0;Q5T6X4;Q8TBF5;Q6ZS62;Q3KNT9;Q96TC7;Q8NFB8;Q69YW2;Q8TEF2;Q86TY3;Q8TBP5;Q8IY50;Q17RQ9;Q6ZUB0;Q5JRM2;Q6UWH4;Q9NXXF1;Q86VR2;Q8N7S6;Q96EA16;Q6PIZ9;Q9NXX6;Q9NR77;Q9BQQ7;Q8N808;P36956;A6NGB0;Q4VC39;Q9H902;Q8N4C9;Q8N912;Q96HA4;Q9NUN5;A6NLC4;Q6UWD8;Q13145;A2RUT3;O14523;P51571;Q8TDI8;Q9NQ40;Q8WZ71;O14681;Q96C03;O95473;Q9NV96;P03901;Q8N8D0;Q9H300;P03886;Q5SSG8;O43761;Q13113;A6NFR6;P0C7T8;Q8WY98;Q8WV15;Q3YBM2;Q9BZW4;Q6ZPD9;Q8N111;A6NCS1;Q86UB9;O95202;Q86UQ5;Q9H5J4;Q12893;Q8IXM6;Q6UWI2;P0C2S0;Q8IVY1;Q9UBM8;Q96PB1;Q9Y2B1;Q5VU36;Q9BXT1;Q8N7C4;Q96S06;Q15849;Q8N8F7;Q5J8X5;Q96A59;Q6AZZ7;Q3MUY2;Q8N766;Q9NX78;Q5JX71;Q9BRR3;Q8NFR9;Q3B7T3;Q1AE85;O14524;Q9H6F2;Q9Y3P8;A6NGC4;Q8N0U2;Q96NF6;Q63HM2;Q9NPA0;Q96LZ7;Q9NV64;Q6NW34;O95298;Q8IU68;A0PJW6;P40305;P46977;Q8N138;Q9Y2G1;Q96KR6;Q9UBK5;Q9UPX6;A2RU67;Q9BSE4;Q5VW36;Q86TL2;Q9GZM5;Q9GZY6;A0ZSE6;O43731;O15503;Q8N852;Q9BSR8;Q96FM1}

3750

Pathogen[{P03383}] interacts with 80 human partners: {Q68CJ9;Q6RW13;O15126;Q7Z3C6;Q96TC7;Q96JI7;Q86UE4;Q96HA9;Q9BSK0;O15162;Q8TDB4;A8CG34;Q3YBM2;Q9BW60;Q8TAC9;Q9GZR5;Q9BUN8;O14925;Q9H5J4;A8MVW5;Q9UH99;Q9NXX95;Q96A26;Q15797;Q8TEM1;O43493;Q12983;Q8N2H4;Q6ZPB5;P11168;Q75NE6;Q14C87;Q96E16;Q15629;Q9BVC6;

060238;Q9BQE4;Q9NVV5;A1L3X0;Q9BVI4;Q15388;Q99717;075381;Q6P9B9;Q9HB03;Q6UWF3;P53801;Q9BTX1;Q5BJF2;Q9NR77;P26678;Q9UJG1;Q9POU1;P50402;P17152;Q9BVT8;O15127;Q96HA1;Q8N9A8;P11169;O00198;O43752;Q8WUY8;P62952;Q9UM00;O14681;O60831;Q96C03;P18850;O76095;Q9P0J0;P14672;Q9GZY8;Q8N9R8;Q14241;Q96DC7;P40855;P22732;Q9Y3P8;Q13505}

3751 Pathogen { P03410 } interacts with 128 human partners: { A6NL05;Q8N4H5;Q9H354;075192;A1L3X0;P69849;Q8TDI8;Q96HP8;Q9HC07;O14786;Q86UP9;Q96LZ7;Q5JTH9;O95168;Q9NQ90;Q53S58;Q9HC24;Q9NXF1;O43674;O75949;Q8NBR0;O14569;A0PJX8;Q5SRD1;O95292;P84157;Q96TC7;A4FU28;Q9HC47;Q86VE9;P49069;Q4G0N0;O95563;Q96DS6;Q9UBK5;Q9H6X4;Q96HJ5;O71037;Q674R7;Q9Y512;Q0D2K0;Q15041;Q9NPR9;Q6IEE7;Q68CJ9;O00519;Q71RC9;P36956;Q8ND61;Q9HBM0;Q9BW72;A6NFA0;Q7L0L9;Q12767;Q9H0C3;P61165;Q86XT9;P22732;Q9NQG1;Q6N075;Q6P9G4;Q95W0B7;Q12893;Q9BUB7;Q9BZ97;Q96B33;P61550;Q3SY89;P61565;Q9Y2R0;Q8NCS4;A5D6W6;Q969W9;O14681;Q8IYW9;Q9UKH3;Q5GH73;Q8WWF3;O14828;Q8N8D7;Q9BVI4;Q8N2C7;A6PVL3;A6NH52;Q86WI0;Q9NV12;Q9GZR5;Q96DZ9;Q14739;Q5VZ72;Q14C87;Q5T7R7;Q96GC9;Q8NCG7;Q8TF08;Q8N511;Q6PEY1;Q9NZ43;Q9H0V9;Q8NBN3;Q5VSG8;Q9H1C7;Q8NHS1;C9JH25;Q5GH77;Q9NX77;Q96KF7;Q13190;Q99442;Q8TAZ6;Q69384;Q12983;Q3V5L5;Q8N6I4;Q15388;O75787;Q8N7P3;Q8N6L1;Q5VUB5;Q9H5Q3;Q8N1Y9;Q8NBT3;Q86TY3;Q9BRV3;Q8TAC9;Q96NF6;Q8WZ55;Q9H902;Q5SSG8;Q9GZY8;Q86T03;Q96F05;Q9BVC6;Q9NPA0;Q9NQ60;O60896;Q6UXV1;P60468;Q7Z5B4;Q96FM1;P49257;Q8TBQ9;Q96A57;P20963;Q3B7T3;Q6UE05;Q6PIZ9;O95473;Q6UX68;Q9NW97;P60059;Q96CP7;Q6UX71;P11166;O60895;Q1HG43;Q9BQA9;Q86TL2;Q96ER9;O96005;Q9NWW5;Q96N19;Q9UJG1;P2Z333;Q969X5;Q8N661;Q5GH72;Q96N68;Q86W33;Q9H5J4;P56378;Q17RQ9;Q96GE9;P61567;Q13445;P0C7Q5;Q8N1W0;B7ZAQ6;Q86UW1;O43736;Q902F9;Q9NS93;Q96B42;Q6ZMZ3;P15954;Q8N8J7;Q8N292;Q96SA4;Q8WY22;A8MVW0;Q6UXD1;Q9NVV5;P15941;Q9Y2B2;Q9BU23;O00198;Q8N4C9;Q8N138;Q567V2;Q6ISU1;Q8IVJ8;Q6UWW9;P0DI80;Q14242;P0C2S0;Q96A33;Q8IYT2;Q9UH99;Q5T4T1;P48553;Q16655;Q13505;Q2T9K0;Q7Z7N9;Q9NSK7;O00400;Q5VW36;Q96Q45;Q8WW34;O94905;Q5JXX7;P0C6T2;Q8WWA1;Q147U7;Q9Y228;Q8WV15;P05141;O43759;Q9HBL7;O43561;Q99717;Q96AW1;B9EJG8;Q9NRQ2;Q9BSE2;Q5TZJ5;Q6P1Q0;Q9Y5Y5;Q9Y3P4;Q9NBP0;Q9Y5U4;Q9H9K5;Q9H841;Q9BV81;Q96HH4;P11168;Q9NUB4;O00501;Q6IEE8;O75324;Q969E2;Q8IWW1;Q9BSK0;Q5JRM2;Q9HAB3;Q6NKN4;A6NC51;Q92545;O96011;P33947;Q9Y6F6;Q53RY4;Q9H813;Q13145;Q5SNT2;P59646;Q9NX00;Q9P2W9;Q9NQG6;Q9GZY4;Q9NS64;A2RRL7;Q9NPL8;P09912;Q8N2U0;O14662;Q93050;Q9HD36;Q8IYS2;P58511;P0C7N4;Q8N114;Q9Y5Z9;Q96N35;O94777;Q96Q80;Q68DH5;Q5T5W8;Q8N6F1;Q96SN7;Q8TB68;Q2PZI1;O95167;Q9Y287;Q9NS69;Q9HD87;Q5T292;P40855;Q8N0U2;A6NDV4;Q1HG44;Q9H6L5;Q96J86;Q96AN3;P27544;Q6PEX7;Q6ZS62;Q9Y2B1;Q9UBU5;Q3SXP7;Q9GZP9;A8MVW5;Q24JG5;O75381;Q9NQ40;Q9BTD3;A6NGB0;Q9P055;P57738;Q6UWF5;O15239;Q9UPX6;Q9H7X2;Q86VI4;Q8WZ71;Q86VY9;Q8NDZ6;Q7Z3B0;Q96HA1;Q1AE95;Q9HBV2;Q8IV31;Q9Y3E0;Q8N808;Q14DG7;Q8N2H4;Q13113;A6NDP7;Q8NG57;Q9NV92;Q9NVM1;Q96S52;Q9UBX3;Q5VUD6;C9JQI7;P56747;A6NGC4;O00461;Q16617;O43761;Q9BQE4;Q86UQ5;Q16585;Q8N609;Q9BV87;A6NNC1;O15258;Q7Z434;Q9NRY6;Q8N912;Q9BZL3;Q9NXXE4;Q8N6M3;Q5VYP0;Q9BVV8;Q2M385;Q96G23;O75069;Q6UWD8;Q8TCG1;Q8N112;P81408;O00559;Q6PP77;Q9NZ42;P0C7T8;O95249;Q8N6S5;Q8NEW7;A6NN79;Q9P1Z9;O75503;Q5HYL7;Q9BQJ4;Q9BSE4;Q9H2X8;Q5SRI9;Q8IX19;O14925;Q92896;Q99595;Q96GX1;O15162;Q8WV48;Q9H0V1;Q8N111;Q13336;Q5SWH9;Q53HI1;Q63HM2;Q96KT7;Q9UJH9;Q902F8;Q8N1N2;Q8N128;Q9NWD8;A6NKF7;Q4VXA5;Q9GZU3;Q8NE86;Q8N201;Q8N614;Q0P670;A0ZSE6;O95866;Q96A59;Q8N766;Q9Y3P8;Q9BTV4;Q5GH76;Q96LL3;Q9BVK6;Q8IYF1;Q9H0H0;Q8N205;Q9H6F2;B6SEH8;P43307;A6NJY4;Q9Y6X1;Q9NRRX5;P03886;Q9GZY6;Q6P2H8;Q5H9S7;Q9NUN5;Q6NUJ2;O14523;Q6UWI2;O75396;Q96BY9;P61570;O95298;Q9NWS6;Q96FX8;C9JDP6;P0DJ07;A0PK05;Q969M3;O75915;Q8NA58;O75438;Q9NPI0;A6NFC5;Q96E16;Q8NEQ5;Q8NBD8;Q3ZCQ8;Q96HH6;Q9BQ49;O00264;Q9NPE6;Q9Y2G1;P0CG08;Q7L4S7;Q9BUN8;Q3B7S5;C9JVV0;Q96RQ1;B2RXF0;Q96JN2;Q9HA82;Q9NV29;Q8N357;Q96GL9;Q8NC54;A6NCI5;P00156;Q9UK28;Q8IY50;Q12772;A6NLLX4;O15155;Q68G75;Q75NE6;Q96JX3;Q86WC4;Q5VU36;Q9BW60;A8MV81;Q96I36;Q8N9S7;P60602;Q14D33;A0PJW6;Q96M19;Q86UE4;Q9BSR8;Q5JX71;Q16873;Q66K66;A8MZ97;Q9NQX7;O14836;Q96A26;Q15629;Q08722;Q9P0N5;Q15797;P62952;Q96KR6;Q6PJT8;Q14789;Q6ZUB0;Q6UX65;Q8TEM1;O15127;Q15049;P26678;P49788;Q5U3C3;P03928;Q9NZG7;O75204;Q15363;Q9Y2Y6;Q5T2E6;P42167;Q9Y284;Q8N4K4;Q8IW70;Q5H9R4;Q9Y6I8;Q8N8D0;Q12912;Q9NWF4;Q8N9R8;Q9UN42;Q15849;O95415;Q9BRB3;Q86Y39;Q9BSA9;Q9BUN64;Q5RGS2;A8MVW5;Q5TGY1;Q8WWB7;Q8N6K0;Q2VYF4;Q6UWH6;Q6UWF3;Q7Z5M5;Q14118;Q9BYT9;B4DJY2;Q9BT22;P48230;P61566;Q96S06;A2A2V5;P0C7Q6;Q96HA9;Q96FB5;Q5T6L9;Q9Y5U8;Q8N3T6;Q6RW13;P04844;P50402;Q00765;Q69YW2;B2RUZ4;Q6GV28;Q16625;P09669;O95476;Q6ZQ2;Q9HCU5;P24390;O94901;P54826;Q96KA5;Q96643;Q8N8F7;Q96S66;Q6ZW34;Q2M3R5;O42043;P03897;O43677;O75477;Q0VDE8;Q8TB5;Q8WVX3;Q6NVV3;Q96DZ7;Q6ZU69;Q9BQ07;Q8TEF2;Q8IZA0;O95169;Q96JI7;Q6ZP80;Q2LD37;F5H4A9;Q9HB03;Q96PS6;Q9P0S9;B4DS77;Q96D96;A6NLE4;Q6ZSS7;Q6ZPB5;Q8NBJ4;P57088;Q969N2;Q9Y5U9;Q9NV96;Q96ES6;Q8IYJ0;Q969W0;Q8WW43;Q8N4L1;Q6ZNB6;Q00LT1;O14521;Q96HV5;P0C7U9;Q92542;Q69YZ2;Q6UWH4;Q5T9Z0;O43752;Q9H799;Q8N8Q9;Q9UBY8;P24310;O95159;A8CG34;A6NKL6;Q86WV6;Q9P0U1;Q8N7C4;Q587I9;Q9NYZ1;P60606;Q96G79;P46695;A6NML5;P00403;Q8IXB3;A6NLF2;Q15011;O14653;Q9NUR3;Q8IWB4;Q8NC56;Q3YBM2;A6NGB7;O43676;Q9BVK8;A6NM45;A8MVW5;Q8IVY1;O75352;Q7RTP0;Q6ZVK1;Q86VR2;Q6UXU6;O00631;P56589;Q6ZN68;Q96DX8;Q14CX5;O76095;Q9H3K2;Q92629;Q96AQ2;P17152;Q9NX94;Q15035;Q15070;A4D0T7;Q9BXS4;P03901;Q5FWE3;Q629K1;Q8NE00;Q8WVE6;Q96C03;Q9UL01;Q9P0J0;Q9P0I2;O43731;P56750;Q13326;Q9Y693;P03923;Q9NP84;Q6GMR7;P55808;Q8IU99;Q6ZVE7;O14524;Q16891;Q5JTV8;Q8TDB4;Q8NFQ8;O15260;Q12981;Q9BRR3;Q9NWR8;E2RYF6;O43493;O60831;Q6ZUX7;O75425;P39656;Q96SK2;Q5T6X4;Q9HOR3;Q86UB9;Q7Z3C6;P20292;Q8N9A8;Q96D05;O95202;A6NKF9;Q8N852;Q8IXU6;Q5VVP1;O15503;P51811;Q9UM00;Q7Z388;Q9NQX5;Q9H490;Q8IVP5;Q12887;Q4ADV7;P40305;O15126;A2RUT3;Q8WV19;O95562;Q5BJF2;Q8IXM6;Q96IX5;Q969L2;Q3KNT9;Q9BSN7;O14609;Q14761;B1AL88;Q9NR77;Q9BZW4;Q14241;P61803;Q8WUY8;Q9NZ45;C9JI98;P18850;Q8WXH0;Q8NFM7;Q8NFR9;Q9P2X0;Q5J8X5;Q9UI14;Q8IXX5;Q6TCL7;Q96B96;Q6AZY7;Q96B96;Q9BWX6;Q4LDR2;Q96HS1;Q8N6L7;Q8IWD5;Q86XL3;Q9UID3;Q8NHY0;Q2WGT8;A2RUG3;Q15012;Q6P9B9;Q9BTX1;O95471;Q9N2J8;O14683;Q9BRQ5;Q9BVW6;Q5QFB9;Q86V85;Q5JRA6;Q8N7S6;O60238;P56134;O95070;Q9NX95;Q9BVT8;Q96PB1;Q8NEA5;O43505;Q9NRQ5;Q96LD1;Q8NFR3;Q8NBNV4;Q9HBU9;Q13323;Q8WVI0;Q96DC7;Q9H665;Q86UK5;A6NGA9;Q6P499;Q13021;Q3MIW9;Q3MIR4;Q8N0W7;Q9BRL7;Q96BM0;Q6NW34;Q16635;Q8NF91;Q8NCQ3;P53801;Q96HE8}

3752 Pathogen { P14075 } interacts with 148 human partners: { O43674;P11169;A6NFC5;Q92545;Q9P0U1;Q9BQE4;O14925;Q13505;P53801;Q96HJ5;Q9H5J

- 4;Q12983;O94777;P62952;Q8ND61;Q9BVC6;Q9BW60;Q8NBJ4;Q96FX8;Q5SRI9;O14681;Q9NRQ5;Q8I WV1;Q8N9A8;Q9BVT8;Q8N2H4;Q96A26;Q96J86;O43677;Q86UE4;O76095;Q8N9R8;O43752;Q96HP8;O15127;Q2LD37;P40855;O15162;A8CG34;Q96C03;Q14C87;Q15388;A8MVW5;Q14241;Q9Y6F6;Q9NS64;Q8N6L1;Q96TC7;Q15070;P22732;Q9HB03;Q75NE6;O95159;Q99717;Q86VI4;Q15629;Q9GZY8;O15126;Q86TL2;Q9UJG1;P50402;Q96JI7;Q96AQ2;O75381;O95298;O00461;Q9BTX1;A1L3X0;P17152;Q96HA1;O60831;Q16655;O43493;P56378;Q96D05;P60602;O43505;Q9Y512;Q3YBM2;Q9NVML;B2RUZ4;P26678;Q9UJH9;Q8NC54;Q8TEM1;O14523;O60238;Q96HA9;Q9BTD3;Q9BUN8;Q8IXM6;Q9NR77;Q8WUY8;Q9Y3P8;Q1HG44;Q96DC7;Q9NV29;Q9UK28;Q6UWF3;Q8WVI0;Q9GZR5;Q68CJ9;Q8TDB4;Q14789;P0DJ07;Q0VDE8;Q6ZPB5;Q5H9S7;Q9NV92;P58511;Q8N6M3;Q9BVI4;Q9UH99;Q8TAC9;O75192;Q9HBM0;P11168;Q15011;P40305;Q8NE00;Q969W0;Q6P9B9;Q53HI1;Q9NVV5;Q6RW13;Q9Y287;Q9BUB7;Q9NX95;P14672;P42167;Q6UWI2;Q9P0J0;P54826;Q8WY22;Q9NS69;O75477;Q96E16;Q8N661;P81408;Q7Z3C6;O00198;O43676;Q9UM00;Q9BSK0;P55808;P18850;Q5BJF2;Q9Y5U8}
- 3753 Pathogen[ P0C206] interacts with 295 human partners: {Q5BJF2;Q7Z3C6;Q96TC7;Q96A33;Q6UXU6;O14662;Q2LD37;Q8IVJ8;O75477;Q14789;Q8NG57;Q5SRI9;Q9BVK6;Q16655;O15127;Q69384;Q96D05;P50402;Q68DH5;Q587I9;Q9BVI4;Q9UM00;Q96G23;O75192;Q96DC7;Q6IEE7;O14828;P40305;Q14739;Q8IXM6;Q9NQ90;Q8NC54;O75396;Q9NWS6;Q96HA9;Q9UBP0;Q9NZ42;P57088;Q9Y5U8;Q9Y287;O14524;Q9NVV5;P39656;Q9HD36;Q9UJH9;O14653;Q8N6L7;P18850;O43759;Q96HJ5;Q96FX8;Q7Z5B4;Q5JTH9;Q86XL3;O14521;Q9NV92;O75381;O15258;P56589;O95202;Q9HB03;Q9UH99;O43752;O75787;O43493;Q0VDE8;Q96DX8;Q96JI7;A5D6W6;Q8NE86;Q9H6L5;Q8N2C7;Q8I WV1;Q99717;Q6P1Q0;Q8IYF1;Q9NS64;Q96HA1;O95070;Q75NE6;Q8N661;B2RUZ4;Q96JN2;P49755;Q6UW56;Q5JRA6;Q9BUB7;P48553;Q5H9R4;Q9Y5Z9;O60831;A6NLF2;O94777;Q15035;Q9UBX3;P36956;Q13021;Q86WV6;Q16891;Q92542;Q9H0H0;Q6ZNB6;Q96A26;Q8NFR3;Q969E2;P11166;Q1HG44;O95476;Q14241;O94901;Q8N912;Q9P2Y4;Q9Y512;Q9UI14;Q9UJG1;P53801;Q8NBJ4;Q5SRD1;Q9H5J4;Q9NR77;O14786;O95298;A6NDV4;O75069;Q8NC56;Q9UL01;Q9NX95;Q9H3K2;Q96S66;Q8N2H4;O95292;O60238;Q96SN7;P11168;Q3ZCQ8;Q6ZMZ3;O14681;Q12983;Q8TEM1;A8MVW5;Q1HG43;Q8N6M3;Q9UK28;Q8WWB7;Q8NF91;Q6PJW8;Q9Y3P8;Q9BQE4;A2RUG3;Q15041;Q15070;Q6UWF3;O15155;Q9NVML;Q9HA82;A8MZ97;Q969M3;Q9NS69;Q6ZVE7;Q53HI1;Q3YBM2;O00264;Q9BVC6;Q969W0;Q9UKH3;Q8N357;P40855;P33947;Q15011;O00461;P24390;P49257;Q9Y6F6;A6NFC5;Q9BTX1;Q9BQA9;O00198;P61570;Q8WUY8;O94905;Q9BUN8;Q9GZP9;Q8N9R8;Q3SY89;Q9P0U1;Q9Y2B2;Q96HP8;O14925;Q6UWH4;P17152;Q9H665;Q13505;Q12893;Q8N205;Q15388;O43736;P61565;A6NH52;Q9NQX7;Q96B42;Q6ISU1;Q96E16;Q9P0J0;Q9NPR9;Q5VVP1;O43731;O96011;P0CG08;Q12981;O15162;Q15797;Q9UID3;O15260;A6NNCL1;P20292;Q8WXH0;Q9HC24;Q969X5;Q5H9S7;Q8NFBQ8;P14672;Q9BVT8;Q86UE4;Q15629;Q9GZR5;Q8NA58;Q00765;Q9BXX5;Q15849;Q6ZPB5;Q5T6X4;Q96RQ1;P26678;Q9UN42;Q6UWI2;Q9GZY8;Q9BQQ7;A8CG34;Q6P9B9;Q15363;Q12912;P42167;Q9Y5U9;Q9BSK0;Q9NYZ1;Q8WY22;Q6PEY1;Q8TAC9;P54826;Q96ER9;Q9NPL8;Q8ND61;O14609;O15126;Q9Y6I8;Q9HBM0;Q86T03;O95159;Q14DG7;P62952;Q8N4H5;Q14C87;O43674;P60602;Q12772;Q9H902;Q9BTV4;Q86WC4;Q9P2W9;Q96S06;Q96C03;Q9BQJ4;Q8NBV4;Q0P670;Q9GZU3;Q969L2;Q8N201;O75425;Q93050;Q9NSK7;Q902F8;O76095;O43505;Q86UB9;Q68CJ9;A1L3X0;Q96LZ7;Q9Y284;B7ZAQ6;Q9BRL7;Q9BW60;Q8TDB4;Q8TAZ6;Q8N9A8}
- 3754 Pathogen[ P03363] interacts with 99 human partners: {O75069;Q9Y3P8;Q14789;P62952;Q9UID3;O43493;Q9BQQ7;O43736;Q8NF91;Q9H5J4;Q9H902;Q6ZMZ3;P53801;Q0VDE8;Q9BVT8;Q8NG57;Q8N9A8;O14786;Q6UWF3;Q8IYF1;Q2LD37;P42167;Q96DX8;Q6UW56;Q15388;O14925;P18850;Q14C87;A8CG34;Q96DC7;Q15041;Q96JI7;Q15797;Q3ZCQ8;Q86UE4;O95476;Q3SY89;Q9NR77;O00198;Q96TC7;Q3YBM2;Q9P2W9;Q9NVV5;Q9HD36;Q969L2;A8MVW5;Q96HJ5;Q14241;Q9P0J0;Q15035;Q7Z3C6;Q9P0U1;Q96E16;O75381;Q96C03;Q68CJ9;Q96HA1;Q8TCG1;Q6P9B9;Q9Y512;P50402;O76095;Q6ZPB5;P40855;Q9H0H0;Q7Z7M0;Q9BTX1;Q8N9R8;O15126;O14662;Q6ISU1;Q07820;Q5BJF2;P14672;O94901;Q96SN7;Q96G23;Q9H3K2;Q9Y6F6;O15127;Q14739;Q9NS69;P48553;Q9UJG1;O43752;Q00765;A6NLF2;Q99717;O60238;Q86XL3;Q9BVI4;O95833;P11166;Q96B42;Q9P2Y4;Q9BSK0;Q9UH99;Q9GZY8;Q9NX95}
- 3755 [Cluster 342]GO:0070652+C cellular\_component [name] HAUS complex [def] "A protein complex that localizes to interphase centrosomes and to mitotic spindle tubules and regulates mitotic spindle assembly and centrosome integrity\_ in human, the complex consists of eight subunits, some of which are homologous to subunits of the Drosophila Augmin complex." [PMID
- 3756 Pathogen[ Q2Q067] interacts with 8 human partners: {Q7Z4H7;O94927;Q9NVX0;Q99871;Q9BT25;Q9H6D7;Q96CS2;Q68CZ6}
- 3757 Pathogen[ P0C214] interacts with 8 human partners: {O94927;Q7Z4H7;Q96CS2;Q9BT25;Q99871;Q9H6D7;Q68CZ6;Q9NVX0}
- 3758 Pathogen[ P03346] interacts with 8 human partners: {Q9BT25;Q9H6D7;Q99871;Q7Z4H7;Q9NVX0;Q68CZ6;Q96CS2;O94927}
- 3759 Pathogen[ Q85601] interacts with 8 human partners: {Q9H6D7;Q9BT25;Q99871;Q7Z4H7;Q9NVX0;O94927;Q96CS2;Q68CZ6}
- 3760 Pathogen[ P14079] interacts with 8 human partners: {Q99871;Q9NVX0;Q9H6D7;Q7Z4H7;Q9BT25;Q68CZ6;O94927;Q96CS2}
- 3761 Pathogen[ P03383] interacts with 8 human partners: {Q9NVX0;Q7Z4H7;Q99871;Q96CS2;O94927;Q68CZ6;Q9BT25;Q9H6D7}
- 3762 Pathogen[ P03410] interacts with 8 human partners: {Q9H6D7;Q68CZ6;Q96CS2;Q9NVX0;O94927;Q99871;Q9BT25;Q7Z4H7}
- 3763 Pathogen[ P14075] interacts with 8 human partners: {Q99871;Q7Z4H7;Q68CZ6;Q9BT25;Q96CS2;Q9NVX0;O94927;Q9H6D7}
- 3764 Pathogen[ P0C206] interacts with 8 human partners: {Q9BT25;Q9NVX0;Q96CS2;Q7Z4H7;O94927;Q9H6D7;Q99871;Q68CZ6}
- 3765 Pathogen[ P03363] interacts with 8 human partners: {Q9H6D7;Q9BT25;Q68CZ6;O94927;Q9NVX0;Q96CS2;Q99871;Q7Z4H7}
- 3766 [Cluster 343]GO:0005742+C cellular\_component [name] mitochondrial outer membrane translocase complex [def] "A large complex of the mitochondrial outer membrane that mediates transport of proteins into all mitochondrial compartments." [PMID

3767 Pathogen[ Q2Q067] interacts with 2 human partners: {Q15388;Q9P0U1}

3768 Pathogen[ P0C214] interacts with 2 human partners: {Q15388;Q9P0U1}

3769 Pathogen[ P03346] interacts with 3 human partners: {Q9NS69;Q9P0U1;Q15388}

3770 Pathogen[ Q85601] interacts with 1 human partners: {Q15388}

3771 Pathogen[ P14079] interacts with 4 human partners: {Q8N4H5;Q9P0U1;Q9NS69;Q15388}

3772 Pathogen[ P03383] interacts with 2 human partners: {Q15388;Q9P0U1}

3773 Pathogen[ P03410] interacts with 4 human partners: {Q8N4H5;Q15388;Q9NS69;Q9P0U1}

3774 Pathogen[ P14075] interacts with 3 human partners: {Q9P0U1;Q15388;Q9NS69}

3775 Pathogen[ P0C206] interacts with 4 human partners: {Q9NS69;Q9P0U1;Q15388;Q8N4H5}

3776 Pathogen[ P03363] interacts with 3 human partners: {Q15388;Q9P0U1;Q9NS69}

3777 [Cluster 344]GO:0000777+C cellular\_component [name] condensed chromosome kinetochore [def] "A multisubunit complex that is located at the centromeric region of a condensed chromosome and provides an attachment point for the spindle microtubules." [GOC

3778 Pathogen[ Q2Q067] interacts with 62 human partners: {P49454;Q96EE3;Q96H22;Q71F23;Q12888;Q13352;Q7Z460;Q96R06;Q6P1K2;Q9HBM1;O75935;Q5EE01;Q8WYP5;Q9H3R5;Q5FBB7;P49450;Q13257;Q8N2Z9;A8MT69;Q03188;Q9NXR1;O43684;Q8NBT2;Q8NFH4;P12270;Q9NQS7;Q9Y448;O43264;Q7Z7K6;Q9BW27;Q96BT3;Q9BZD4;Q9NSP4;O75177;P36873;P50748;Q96JM3;Q96BK5;Q9H410;Q8NFH3;O75122;Q8IX90;Q8NG31;Q9Y6D9;P57740;Q96BD8;Q9H900;Q96IY1;Q96IK1;Q8WUM0;Q14683;Q9BU64;O95229;O14777;Q562F6;Q8NCD3;P51808;Q9H081;Q8WVK7;O15392;Q96EA4;O14576}

3779 Pathogen[ P0C214] interacts with 60 human partners: {Q9H081;O43684;Q96BK5;Q13257;O75935;Q96BT3;O43264;Q96EA4;Q96R06;P57740;Q5EE01;Q8WYP5;P50748;O95229;Q96EE3;Q8NBT2;P51808;Q6P1K2;P46060;Q562F6;P49450;Q8N2Z9;Q03188;Q8NCD3;O75122;Q9BW27;Q96BD8;Q9HBM1;Q13352;Q8NFH3;Q7Z7K6;Q9H410;O15392;Q9H3R5;Q8IX90;Q14683;Q8NG31;O14576;Q7Z460;P36873;Q9H900;Q5FBB7;Q96JM3;Q9NQS7;Q12888;Q9NSP4;P12270;Q71F23;Q8NFH4;Q9NXR1;Q96IY1;P49454;Q9Y448;O75177;Q9BZD4;Q8WUM0;Q9Y6D9;Q9BU64;Q8WVK7;O14777}

3780 Pathogen[ P03346] interacts with 66 human partners: {Q12888;Q9Y6D9;Q8N2Z9;Q5FBB7;Q8NFH4;Q8WUM0;O95229;P12270;O14576;O15392;O43684;Q96EE3;Q9BS16;A8MT69;O75935;Q96R06;P51808;P57740;Q5EE01;Q8WYP5;Q14141;O43264;Q9NXR1;Q96IY1;Q96IK1;Q8NFH3;Q8NCD3;O14777;Q9BW27;Q96EA4;P46060;Q14683;Q15019;P36873;Q96BK5;Q9NQS7;Q562F6;Q7Z7K6;Q9H081;Q8NBT2;Q9HBM1;Q96JM3;Q9H410;O75122;Q9BU64;Q03188;Q8IX90;P50748;P49450;Q9Y448;Q7Z460;Q8NG31;Q9H3R5;Q9NSP4;Q96H22;Q6P1K2;Q96BD8;Q9BZD4;Q96BT3;Q71F23;Q13352;Q8WVK7;Q13257;P49454;Q9H900;O75177}

3781 Pathogen[ Q85601] interacts with 63 human partners: {Q8NBT2;P49454;Q96JM3;O95229;Q7Z7K6;Q8NFH4;Q8NFH3;Q03188;P51808;Q9H900;P46060;Q96EE3;Q9NQS7;Q9H081;Q96IK1;Q96BT3;O75935;P57740;Q5EE01;Q8WYP5;Q8WUM0;Q71F23;O43264;Q8NG31;O15392;Q9H3R5;Q96EA4;P12270;Q96R06;Q8NCD3;Q12888;Q13257;O75122;Q9BW27;Q13352;Q9Y448;Q562F6;Q9BU64;Q96BK5;Q14683;Q9BZD4;P36873;Q96BD8;Q9Y6D9;A8MT69;O14576;P49450;Q8N2Z9;Q9H410;Q8IX90;P50748;Q8WVK7;Q96IY1;Q7Z460;Q9NXR1;Q6P1K2;Q9GZM8;O14777;O43684;Q9HBM1;Q5FBB7;P51955;O75177}

3782 Pathogen[ P14079] interacts with 66 human partners: {Q96IY1;Q03188;Q9BW27;Q5EE01;Q7Z460;P51808;Q8IX90;Q96BT3;Q9HBM1;Q96R06;P36873;P57740;O95229;Q8NBT2;Q9BZD4;O15392;P46060;Q8NG31;Q9H900;Q9Y448;Q5FBB7;Q9H410;Q96IK1;Q9NSP4;Q99661;Q71F23;Q8WUM0;P51955;P12270;Q8WYP5;Q8N2Z9;Q13257;Q96EA4;Q562F6;Q8WVK7;P49450;Q96JM3;Q96H22;Q8NFH3;Q96EE3;O43264;A8MT69;Q9H3R5;Q9GZM8;Q8NFH4;Q9NQS7;Q8NCD3;Q96BK5;P49454;Q9BU64;O14576;Q9NXR1;P50748;Q12888;Q96BD8;O75122;Q14683;Q13352;O75935;O14777;O75177;O43684;Q7Z7K6;Q6P1K2;Q9H081;Q8WVJ2}

3783 Pathogen[ P03383] interacts with 54 human partners: {Q14683;Q96EE3;Q13257;Q8WUM0;Q9NQS7;Q03188;P49454;Q12888;Q8N2Z9;Q8NFH4;Q7Z460;Q96BD8;Q8NBT2;P51808;Q9H900;O43264;P12270;Q5FBB7;P57740;Q5EE01;Q8WYP5;Q96BK5;Q96H22;O75177;Q7Z7K6;Q13352;Q96EA4;Q96BT3;Q96R06;P36873;Q71F23;O95229;Q9BW27;Q9BU64;O43684;Q9BZD4;Q8WVK7;A8MT69;Q562F6;O75935;Q9HBM1;Q9H410;Q9H081;Q8IX90;Q96IY1;Q8NCD3;Q8NG31;Q6P1K2;Q9Y448;O14777;Q9H3R5;Q8NFH3;Q9Y6D9;P50748}

3784 Pathogen[ P03410] interacts with 65 human partners: {Q03188;Q9Y6G9;Q8IX90;Q7Z460;O15392;Q9BW27;Q8WVJ2;P51808;Q9NSP4;Q9H3R5;O43684;Q96H22;Q96JM3;Q9NXR1;Q9H410;Q8NG31;Q9GZM8;Q8NFH4;Q96BT3;P50748;Q562F6;Q96R06;Q8NCD3;O75177;Q5EE01;O43264;Q7Z7K6;P49454;Q96EA4;Q96IY1;O14576;Q9Y448;P12270;Q6P1K2;Q71F23;Q14683;Q9BZD4;Q8WVK7;P36873;Q9HBM1;Q96EE3;O75935;Q12888;Q8NBT2;P49450;Q5FBB7;Q8WUM0;A8MT69;Q9H900;O95229;Q9H081;Q96BK5;Q96BD8;P57740;Q8WYP5;O75122;Q8NFH3;Q13352;P46060;O14777;Q9BU64;Q8N2Z9;Q13257;Q9NQS7;Q96IK1}

3785 Pathogen[ P14075] interacts with 55 human partners: {A8MT69;Q14683;Q9Y6D9;Q9H081;Q562F6;Q9NQS7;Q96R06;P51808;Q8WVK7;P57740;Q5EE01;Q8WYP5;Q7Z460;Q96IY1;Q13257;Q96H22;O43684;Q96BD8;P12270;O14777;P36873;O95229;Q8N2Z9;Q96BK5;Q9H3R5;Q9BW27;Q9BU64;Q96EA4;O75935;Q96EE3;Q96BT3;Q5FBB7;Q9H410;Q8IX90;Q7Z7K6;Q8NFH3;Q9H900;Q8NCD3;P50748;Q12888;Q9HBM1;Q6P1K2;Q13352;Q8WUM0;O43264;Q03188;Q8NG31;P49454;Q96IK1;Q71F23;Q8NFH4;Q9Y448;Q8NBT2;Q9BZD4;O75177}

3786 Pathogen[ P0C206] interacts with 68 human partners: {Q96EE3;Q9HBM1;Q8WYP5;Q9NSP4;O14576;Q9H900;Q15019;Q9Y6D9;P51955;Q9H081;O14777;O75177;Q9Y448;Q9BZD4;Q9H410;P57740;P49454;Q96BK5;Q13257;Q9BU64;Q14141;Q9GZM8;Q8IX90;O75122;Q8WUM0;Q5EE01;P46060;Q6P1K2;Q8NBT2;Q96BD8;Q9H3R5;Q12888;P49450;Q8NCD3;P51808;Q14683;Q96IY1;Q9Y6G9;Q7Z7K6;Q96BT3;Q13352;Q5FBB7;Q96JM3;O15392;Q96H22;Q8NFH4;Q562F6;Q9NXR1;Q96EA4;Q8N2Z9;Q16181;O43684;Q7Z460;Q9NQS7;O75935;Q8NFH3;P36873;P50748;Q96IK1;Q71F23;O43264;Q8NG31;Q8WVK7;Q9BW27;A8MT69;Q03188;P12270;O95229}

3787 Pathogen[ P03363] interacts with 59 human partners: {Q96EA4;Q9BZD4;P46060;Q96IK1;P49454;Q96IY1;Q6P1K2;Q7Z7K6;Q9Y6D9;P12270;Q9H08

1;P36873;Q8NFH4;O95229;Q96BD8;Q96BK5;Q8WYP5;Q8NFH3;O43264;Q8NBT2;Q8N2Z9;Q8WVK7;Q9H410  
;P50748;Q8IX90;Q5FBB7;Q9H900;Q5EE01;Q8WUM0;Q96JM3;Q96R06;O43684;P49450;Q9NQS7;Q9NSP4;  
O75935;Q9HBM1;Q7Z460;Q03188;Q8NG31;Q13257;Q8NCD3;Q71F23;P51808;P57740;Q96BT3;Q9H3R5;O  
14777;Q9Y448;Q562F6;Q9NXX1;Q14141;Q13352;Q14683;O14576;Q9BW27;Q12888;O75177;A8MT69}

3788 [Cluster 345]GO:0072559+C cellular\_component [name] NLRP3 inflammasome complex [def]  
"A protein complex that consists of three components, NLRP3 (NALP3), PYCARD and  
caspase-1. It is activated upon exposure to whole pathogens, as well as a number of  
structurally diverse pathogen- and danger-associated molecular patterns (PAMPs and DAMPs)  
and environmental irritants. Whole pathogens demonstrated to activate the NLRP3  
inflammasome complex include the fungi *Candida albicans* and *Saccharomyces cerevisiae*,  
bacteria that produce pore-forming toxins, including *Listeria monocytogenes* and  
*Staphylococcus aureus*, and viruses such as Sendai virus, adenovirus, and influenza  
virus." [GOC

3789 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9Y2G2}  
3790 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y2G2}  
3791 Pathogen[ P03346] interacts with 1 human partners:{Q9Y2G2}  
3792 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y2G2}  
3793 Pathogen[ P14079] interacts with 1 human partners:{Q9Y2G2}  
3794 Pathogen[ P03383] interacts with 1 human partners:{Q9Y2G2}  
3795 Pathogen[ P03410] interacts with 1 human partners:{Q9Y2G2}  
3796 Pathogen[ P14075] interacts with 1 human partners:{Q9Y2G2}  
3797 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y2G2}  
3798 Pathogen[ P03363] interacts with 1 human partners:{Q9Y2G2}

3799 [Cluster 346]GO:0005749+C cellular\_component [name] mitochondrial respiratory chain  
complex II [def] "A protein complex located in the mitochondrial inner membrane that  
forms part of the mitochondrial respiratory chain. Contains the four polypeptide subunits  
of succinate dehydrogenase, flavin-adenine dinucleotide and iron-sulfur. Catalyzes the  
oxidation of succinate by ubiquinone. Connects the TCA cycle with the respiratory chain."  
[GOC

3800 Pathogen[ Q2Q067] interacts with 2 human partners:{P31040;P21912}  
3801 Pathogen[ P0C214] interacts with 3 human partners:{Q99643;O14521;P21912}  
3802 Pathogen[ P03346] interacts with 2 human partners:{P31040;P21912}  
3803 Pathogen[ Q85601] interacts with 2 human partners:{P21912;P31040}  
3804 Pathogen[ P14079] interacts with 3 human partners:{P31040;O14521;P21912}  
3805 Pathogen[ P03383] interacts with 1 human partners:{P31040}  
3806 Pathogen[ P03410] interacts with 4 human partners:{P31040;P21912;Q99643;O14521}  
3807 Pathogen[ P14075] interacts with 1 human partners:{P31040}  
3808 Pathogen[ P0C206] interacts with 3 human partners:{O14521;P31040;P21912}  
3809 Pathogen[ P03363] interacts with 1 human partners:{P31040}

3810 [Cluster 347]GO:0005575+C cellular\_component [name] cellular\_component [def] "The  
part of a cell or its extracellular environment in which a gene product is located. A  
gene product may be located in one or more parts of a cell and its location may be as  
specific as a particular macromolecular complex, that is, a stable, persistent  
association of macromolecules that function together." [GOC

3811 Pathogen[ Q2Q067] interacts with 143 human  
partners:{Q9HD33;O95671;P53370;Q9NYP9;Q99865;Q14657;Q96S65;A5PL33;O75474;P59022;Q9GZW  
5;Q9NSB2;Q6XD76;Q5SRH9;Q53EQ6;Q8N0Y7;O00193;P09913;O43734;Q9NSC5;Q9ULD5;Q0PNE2;Q86VX2  
;Q96BZ8;Q9NZV7;P57060;Q9UKJ3;Q9BXM0;P49419;O60829;A6NNW6;O76013;Q8NDF8;Q9UKY7;A3KN83;  
Q9BZV1;Q9H322;O15453;P56555;Q9Y5R5;P53672;Q4LE39;Q9Y2G9;Q9NSB4;Q9BY42;Q8NBR6;Q2QGD7;Q  
86V97;Q5T280;Q7RTU5;Q96NJ6;O95416;O95394;Q9BZE9;Q9NZP6;Q14669;O43583;Q9H6Y2;Q9BU89;Q9  
BZE7;Q2TAL8;Q63HK3;Q9UII5;Q12800;Q9NWX4;Q9BZW7;Q9H2W6;Q9UPX8;Q96A73;Q13495;Q6IQ32;Q9B  
TE7;Q9UKZ1;P43358;P50221;Q9UKJ5;O60826;Q96NG5;O14530;Q9HB07;Q9BUW7;Q92529;Q99618;Q68D  
10;Q9Y592;Q13951;O75920;Q4VC05;Q8N0V3;Q12980;P15259;Q9NRY5;Q9H0A9;O15370;Q0VDD7;Q9Y6Z  
5;Q8WWQ0;Q8IZX4;O75564;Q70EK8;Q9Y4K1;Q99619;O76042;Q9NR09;Q9H9J2;O60290;Q96Q35;Q9H0U9  
;Q9UBL0;Q9BQ65;Q5TEC3;Q8WVZ9;P0C7X2;Q12894;Q9BWF9;Q92670;Q96FN9;Q8N5J2;P13994;Q96M91;  
P43359;O14512;Q9BYS1;Q5T7W7;Q9HCM9;P27469;Q8WVK2;Q8ND04;Q9P0V3;Q14602;Q7Z794;Q01534;Q  
9Y608;Q969T9;Q9Y651;Q9H0N5;Q9NYP3;P43360;O14879;Q9Y5P3;O14490;Q96JB5;Q9NQR4}

3812 Pathogen[ P0C214] interacts with 183 human  
partners:{Q9HD33;P27469;Q6IQ32;O14490;O95671;P49419;Q9NXT2;Q96S65;Q14264;Q8N573;Q9H9J  
2;Q9BQ65;O76013;Q12894;P53672;Q8WUX2;Q9H6Y2;Q9BU89;Q63HK3;Q9Y2G9;Q9ULD5;Q9H4I8;Q9UPX8  
;P09913;Q53EQ6;O15194;Q8NDF8;P15259;Q9UJJ7;Q9P0V3;Q96M91;O14879;Q99865;P43360;O60826;  
Q9UKJ5;O60739;P43358;Q7Z794;P11844;O60829;P53370;Q12800;Q5SRH9;O14513;Q8N5J2;Q9BTE6;Q  
9NSB2;Q969T9;Q8NBR6;Q9BXM0;O14530;Q9Y315;Q53S33;Q96A73;Q5JVF3;Q0VDD7;Q92529;Q96NG5;Q8  
WVZ9;Q9NSC5;Q9H0A9;Q8NEY3;Q9NYP3;Q7RTU5;Q9UII5;O76042;Q13057;P55789;Q96C11;Q9NZP6;Q01  
534;Q9BZV1;O60290;O75564;Q9Y5P3;Q9UKJ3;Q9BZE9;Q86V97;Q9BY42;Q70EK8;Q9H0N5;Q9H3H1;Q146  
96;Q9Y6Z5;P00374;Q8WVK2;O43734;Q9NRY5;A6NNW6;P57060;O95416;Q12980;Q9NQR4;Q8IYX8;Q9HB0  
7;O15453;Q9GZW5;Q9NYP9;Q8WWQ0;Q68D10;Q8ND04;Q5JTJ3;Q6GMV2;Q9BUW7;Q9BZE7;A2RTX5;Q99618  
;Q14019;Q2QGD7;Q9BZW7;Q9Y608;Q3SYA9;Q0PNE2;Q99619;Q9UHY7;Q9H322;Q2M3D2;Q9HCM9;A3KN83;  
O00193;Q4LE39;P13994;P43359;Q8IZX4;Q9Y4X0;Q9H5X1;Q9BTE7;P59022;Q6XD76;O75920;Q9H8M2;Q  
14669;Q8N2G8;O75474;P0C7X2;O95394;Q9H0U9;Q9UBL0;Q8N0Y7;Q9UKZ1;Q9NR09;Q9UKY7;Q9BW92;Q9  
NZV7;Q5TEC3;Q9H2W6;Q8N0V3;Q14602;P50221;Q9NWX4;Q86VX2;P56555;Q5T7W7;Q5T280;Q9Y651;Q96  
NJ6;O14512;Q8NB25;Q96FN9;P17812;Q9BYS1;O15370;Q14657;Q8IZ73;Q96Q35;Q8WV07;P61081;P527  
46;Q96BZ8;Q86U38;Q13495;Q4VC05;O43583;Q96JB5;Q9BVG4;Q2TAL8;Q9Y5R5;Q9Y4K1;Q9NSB4;Q1395  
1;Q92670;Q9Y592}

3813 Pathogen[ P03346] interacts with 220 human  
partners:{Q9NSC5;Q96NG5;O60739;O14490;Q9H7Z3;Q96S65;Q9NZR4;Q01534;O75564;Q8N573;Q96A7

- 3;Q96NJ6;Q9NZV7;A3KN83;P50221;Q9BQE9;Q9UKY7;O15522;Q9HCS5;Q9ULD5;Q9H0A9;Q96JP2;Q2QGD7;Q9H2Z4;O15370;Q8NFV4;O14633;Q70EK8;Q4VC05;Q96G27;A6NNW6;P57060;Q86VX2;Q9UKZ1;Q96Q35;Q9GZW5;Q2TAL8;P27469;Q9BY42;Q9UBI9;O43734;O60290;Q5T280;O15225;Q5T7W7;Q9Y5M1;Q96BZ8;Q9P2W1;Q8WV07;P43360;Q9NSB4;Q0PNE2;Q8NHX4;O95177;O75474;Q9Y6Z2;Q9BZV1;Q969T9;P56555;Q9P2F5;Q14141;Q66250;O95671;Q9GZL8;O00193;Q9BXM0;Q9HCK0;Q9H2W6;Q9NWW4;P0C7X2;Q96BR9;Q8ND04;Q15847;Q7RTU5;Q92670;Q9Y5R5;Q9UKJ5;Q6XD76;Q9BZE7;Q8IYX8;O15194;Q4V328;Q9NZP6;P09565;Q9BZE9;P22103;Q9UKJ3;Q9Y592;P53370;P20132;O14530;Q9HB31;Q9HAU0;Q7Z794;Q9BQ65;Q8WVK2;O43583;Q6UW56;Q9Y608;Q68D10;A6NF36;Q9BZ29;Q14153;Q9NQR4;Q9H4I8;P07316;Q14264;Q9NSB2;Q13166;P49419;Q8N0Y7;Q9P0V3;Q9Y4H4;P13985;P52746;Q12894;Q9UBL0;Q8N5J2;Q13951;O60826;Q9Y2G9;Q9H322;O14879;Q8N0V3;Q9BUW7;Q9BZD3;Q6IQ32;Q8WWQ0;Q9HCM9;Q9NZT2;Q9BTE7;Q96JB5;Q14669;Q99619;Q9HD33;Q9Y4P9;Q9H6Y2;Q12800;Q9H8M2;Q9BVG4;P13994;Q9NRY5;O15453;Q9UHY7;Q53EQ6;Q8WVZ9;Q13495;Q63HK3;Q2M3D2;Q9H0U9;O75920;Q9Y5P3;Q5SRH9;Q96M91;A5PL33;Q8NDF8;P01358;Q9UHD1;Q8TE68;Q4LE39;Q9Y6Z5;P02728;Q9BTY7;O95394;P01858;Q9NYP3;Q0VDD7;O43763;Q9NR09;Q9UII5;P15259;Q14019;Q9BU89;Q15527;Q8NEY3;Q12980;P09913;Q9BXM8;Q7Z3D6;Q9Y651;P59022;Q13401;Q8IZX4;Q9Y4K1;O96002;Q10571;Q8NI36;O14512;O60829;Q9BZW7;Q9BYS1;P43358;Q96FN9;Q8TAU0;Q5JTJ3;Q92529;Q8WXX7;O76042;Q9H0N5;Q9NYP9;Q14602;Q6FIF0;Q99865;Q9UPX8;O43900;Q8NBR6;Q3SYA9;Q14657;P53672;Q5TEC3;Q9HB07;Q99618;O95416;P58546;Q8N2G8;P43359;Q9H9J2;O76013;Q86V97;Q8WU76}
- 3814 Pathogen[ Q85601] interacts with 145 human partners: {Q53EQ6;O14530;O14490;Q9Y608;Q63HK3;Q96S65;Q4LE39;Q96A73;P09913;Q9UPX8;Q13495;Q9H8M2;Q9GZW5;O76013;P53672;Q9NSB4;Q9UHD1;Q8N0V3;Q9ULD5;Q96JP2;Q9H0N5;O14879;O95671;P57060;O15194;Q9UKZ1;O60290;Q8N5J2;Q9Y6Z5;Q9H2W6;P59022;Q13951;Q9Y651;Q0VDD7;Q01534;P56555;Q12894;Q9NY30;Q969T9;Q12800;Q9BXM0;Q96NG5;P0C7X2;Q2QGD7;Q9UII5;P55145;Q5SRH9;Q14669;Q9UJJ7;Q7RTU5;P27469;Q9NRY5;Q9BW92;Q9H6Y2;Q9NZV7;Q9BZV1;Q9BZE9;Q9NZP6;O75474;P15259;Q8IZX4;P53370;Q9HAU0;Q9Y592;O15370;P52746;Q7Z794;Q6IQ32;Q9H0A9;Q8NEY3;P43360;Q9NR04;Q5T280;Q96JB5;Q8WVZ9;Q9H322;Q9UKJ3;Q9UBL0;Q14657;Q8WV07;Q9NYP9;O95416;Q0PNE2;Q99618;A2RTX5;Q8WWQ0;Q70EK8;Q9UKJ5;Q2TAL8;Q96NJ6;Q92529;Q86V97;Q9Y4K1;Q8ND04;P13994;Q2M3D2;O75920;Q8NDF8;Q6GMV2;Q9HD33;Q9UKY7;O95394;O00193;Q9NSC5;Q8NBR6;O15453;Q9NR09;P11844;Q9UHY7;A3KN83;O60826;Q96Q35;Q9Y5R5;Q92670;P50221;Q9P0V3;Q86VX2;Q8N0Y7;Q8N2G8;O14512;Q9BY42;P43358;Q9H9J2;O76042;P43359;Q9BTE7;Q14602;Q9BU89;O43583;Q9H0U9;O43900;O75564;Q14264;Q5TEC3;Q9HB07;Q9NSB2;Q9Y2G9;P49419;Q96M91;Q99619;Q96FN9;Q9HCM9;Q8IYX8;Q6XD76;Q9BZW7}
- 3815 Pathogen[ P14079] interacts with 293 human partners: {O15255;Q5VV42;Q9H0U9;Q96M91;A8MUM7;O15442;O15194;A6NF36;Q9GZN8;Q9BZP3;Q9BQ08;O75556;P00375;P15259;P07316;Q9BUV8;Q9Y4P9;Q12894;Q8N573;Q8NEY3;O76087;Q8N3T6;Q96FN9;Q8NEB7;P09565;O15225;Q9BTD3;Q9P2X8;P27469;Q9GZL8;Q86V97;O95416;Q8IZX4;P02728;O60826;O15370;Q9BTE6;Q8NHX4;Q7Z794;Q9BW92;Q86U38;Q14236;Q9H8M2;O14990;Q01534;Q96A33;O60739;Q24JP5;P11844;A3KN83;Q8NBR6;P20132;Q8N6L1;P17812;Q4VC05;Q9UKJ5;Q9HB07;Q15155;P43360;O15453;O60290;Q5TEC3;O00193;P56378;Q5T7W7;Q6XD76;Q9BY42;A8MXV4;Q2QGD7;Q9BUW7;P13985;Q92564;P43359;Q92545;Q6GMV2;Q13166;Q9NSB4;Q9Y5R5;P52746;Q14696;Q14696;Q96A73;Q63HK3;Q9NZV6;Q9BZE9;Q9UKZ1;Q8N5J2;Q9Y315;Q9BZD3;Q9BYS1;Q70EK8;Q14264;Q8NE00;Q12980;Q01804;A2RTX5;Q969T9;Q4LE39;A6NNW6;Q8WWQ0;Q96C11;Q15527;Q6NTE8;Q96CP2;Q9BQ65;Q9Y6Z2;Q9NV29;Q9BZV1;Q8N0V3;O43900;Q10571;Q9UIG4;Q96G27;Q86YL5;Q96NG5;Q9Y4H4;Q96BJ3;Q8IVB5;Q9NRQ5;Q3SYA9;Q9P0V3;P58511;Q9BTE7;Q9HCM9;Q96S65;Q9H5X1;Q9Y6Z5;Q8NB25;Q69YN2;O14513;P09913;Q9BVV7;Q9BXM8;Q99618;O95671;Q9NR09;Q9Y592;Q5SRH9;O95394;Q9NS71;Q8IZ73;Q9UJ55;P53673;P0C7X2;Q8WUX2;Q9ULD5;Q9UBL0;Q92670;Q86VX2;Q9H0N5;Q99865;O14633;Q8WVZ9;Q9BQE9;Q9P0I2;Q9HAU0;Q9H790;Q96Q35;Q8IUX1;Q9BXM0;P22103;Q9H7Z3;Q14657;Q14DG7;Q13066;Q9UBI9;Q9BU89;Q5T6V5;Q9BVG4;Q0VDD7;Q9UEE9;Q9Y6Z4;Q9NQA3;Q9H2W6;Q9Y5P3;Q53FP2;Q8ND04;Q8IYQ7;O14530;Q9BYS1;O60829;Q13057;Q9NRY5;Q9H1M4;O95177;Q9UKJ3;Q9NZT2;Q8N2G8;Q9NYP8;P53370;Q8WV07;Q8N1H7;Q9NZP6;Q9P2X3;Q9NY30;Q9NYP3;O76013;Q15847;Q9Y4X0;O43583;Q5JTJ3;Q14153;Q8N1D0;Q9Y5U8;P55789;Q2TAL8;Q5JVF3;O96002;Q68D10;P60059;Q9NSC5;Q9NYP9;Q9NRT5;P59022;Q12800;P01358;Q8WVK2;Q9NUM4;A4D263;Q9H9J2;O75920;Q9GZW5;P43358;O14512;Q9H0A9;P30039;Q9BTY7;Q96SZ6;Q9UJJ7;Q5T011;Q9UKY7;Q9UII5;P59020;Q4V328;Q14602;Q5T750;Q9HD33;Q8WXX7;P53672;A5PL33;Q9NZV7;Q96JB5;Q6NUV6;Q5SRD1;Q9Y4K1;Q0PNE2;Q6IQ32;Q9UHD1;Q9H3H1;P13994;Q9H478;Q9P2F5;Q96AQ2;Q92529;P57060;O75474;P56555;Q8IYX8;O14879;Q9Y236;Q9UBP8;O76042;Q13951;Q96BK1;O14523;Q9NSB2;Q06250;O43734;Q9NQR4;Q9Y5M1;Q8N0Y7;O14490;Q99619;Q9NWW4;Q9Y2G9;Q9Y608;P50221;Q14019;Q2M3D2;Q96NJ6;P01858;Q13296;Q9NUG4;Q53EQ6;Q9H322;Q5T280;O96001;Q86TL2;Q9UPX8;P43362;Q13495;Q9BZW7}
- 3816 Pathogen[ P03383] interacts with 189 human partners: {Q0VDD7;O14879;O76087;P43359;Q8N5J2;O75920;Q9H7Z3;Q63HK3;Q96S65;Q8NBR6;Q9BZE7;Q8ND04;Q12894;Q9Y6Z5;A6NNW6;Q9GZW5;Q9NZV7;Q9NSB4;P27469;Q9NSB2;P11844;Q13166;Q96M91;P53370;P02728;Q96G27;Q4VC05;Q9Y5R5;Q9GZN8;Q92670;Q3SYA9;Q9H6Y2;Q96BZ8;Q96A73;O43734;O60290;Q9H2W6;Q8N0V3;Q9BQ65;Q5SRH9;A3KN83;Q8NEY3;O95177;Q9NYP9;O75474;Q0PNE2;Q9BZV1;Q969T9;Q9ULD5;Q9BZE9;Q9P2F5;Q9BZW7;O00193;Q06250;Q9BXM0;O14490;Q8NDF8;Q8IZX4;Q9GZL8;O60826;Q96JB5;Q9NWW4;Q9Y592;P0C7X2;Q15847;O14990;Q7RTU5;Q9BXM8;Q9BTY7;Q4V328;Q6IQ32;Q9NZP6;O96002;Q99618;Q9UKJ3;P01358;P13985;P09913;Q9Y6Z2;Q13495;O14530;P52746;P43360;Q9BTE6;Q9H0A9;Q8NHX4;Q9Y4K1;Q53EQ6;Q96FN9;Q8WVZ9;Q13951;Q5JTJ3;Q9BQE9;Q7Z794;Q13066;P53672;P43358;Q9Y5M1;Q9H322;Q9BUW7;Q14696;Q9HD33;A2RTX5;P55145;A5PL33;Q14657;A6NF36;Q9HCM9;Q9Y5P7;Q86V97;Q68D10;O14513;Q2TAL8;Q9HB07;Q12800;Q9BVG4;P13994;Q9NRY5;O15453;Q8N0Y7;O15370;Q9UKY7;Q9H0U9;Q12980;Q9Y4H4;Q5T7W7;O60829;Q9NQR4;Q8WVK2;Q14264;O76042;Q9NSC5;Q9UKJ5;O14633;Q4LE39;Q5T280;Q96Q35;Q14153;A4D263;O95394;Q5TEC3;Q9NYP3;Q9H0N5;P56555;Q96NJ6;Q15527;Q8WWQ0;Q9P0V3;Q9H9J2;Q9NR09;Q9UII5;P22103;Q99865;O43583;Q9BU89;O95671;Q14602;Q9UKZ1;Q53S33;Q9Y2G9;P50221;Q86VX2;Q01534;Q70EK8;O14512;Q96BJ3;Q9BY42;Q9BYS1;Q9NYP8;Q2QGD7;O15225;Q9BTE7;Q9Y4P9;Q2M3D2;Q8WXX7;Q9Y608;O75564;P59022;P57060;Q9UBL0;P15259;P49419;Q5T6V5;Q99619;Q96NG5;O76013;Q9UBI9;Q8WV07;Q9BW92}
- 3817 Pathogen[ P03410] interacts with 288 human



partners: {P30039; Q2M3D2; Q0PNE2; Q5SRD1; A6NF36; P13994; Q9HB07; Q8IZ73; Q8IZX4; Q9H6K1; Q92529; Q9BZE9; Q92564; Q9UBL0; Q9BU89; Q9Y315; Q9HD33; A4D263; Q9Y6Z5; Q8NEB7; Q9BTE7; O15255; Q8WUX2; Q13296; P59022; Q3SYA9; Q4VC05; Q8WXX7; Q8N5J2; Q9HCM9; Q969T9; P01858; Q9BTE6; Q9H0U9; Q13495; Q8N6L1; Q6PJE2; Q96002; Q9Y2G9; Q96M91; Q9BQE9; Q99618; P60059; Q9Y4P9; Q9BXM0; Q76087; Q9GZL8; Q86TL2; Q96CP2; Q15527; Q9UJ55; Q96C11; P56378; Q76042; Q13057; Q92670; P17812; Q9BZD3; Q9BUW7; Q8N7X4; Q9UII5; Q14264; Q8WV07; Q9NY30; Q9BW92; Q10571; Q69YN2; A3KN83; Q96A33; P50221; Q14019; Q14153; Q9BVG4; Q9P0V3; P00374; Q5T6V5; Q9BZP3; Q12800; Q9HAU0; Q9P2F5; Q9BZE7; P11844; P57060; Q75474; Q9BY42; Q5T750; Q8WVZ9; Q53EQ6; Q9UBI9; P13985; Q92545; Q01534; Q14657; Q9BYI3; Q9NRY5; Q9NYP9; Q9H5X1; Q15847; Q9H478; Q9UHD1; P43359; Q9P2X8; Q9NZV7; P58511; Q9BUV8; Q9NYP8; P20132; Q86V97; Q9UEE9; Q7Z794; Q0VDD7; O43583; O15225; Q9NSC5; Q12980; Q24JP5; Q99865; O14530; Q9BTD3; Q9H3H1; O14490; Q6GMV2; Q14DG7; Q5JTT3; O00193; Q9NSB4; Q9H322; Q86VX2; Q4LE39; Q8IYX8; Q9H9J2; Q9Y4X0; P02812; Q9NS71; P52746; O60826; Q8WU76; Q5TEC3; Q9UJJ7; Q9BZV1; Q96BJ3; Q96JB5; Q9Y5P3; Q9H8M2; Q6XD76; Q8NHX4; Q9Y592; Q9Y5M1; Q9ULD5; Q5SRH9; Q9UBP8; Q9NR09; Q9H790; O95158; Q9Y4H4; Q5T7W7; Q9Y6Z4; A5PL33; Q9NQR4; Q6IQ32; Q99619; Q8WVK2; O14523; Q9Y608; Q8WWQ0; Q68D10; Q96G27; P43362; O60739; Q5T280; Q9BXM8; P53370; Q9NV29; P27469; O14513; Q9UKZ1; Q9NWX4; Q96BZ8; O14633; O43734; P56555; Q5JVJF3; Q9UIG4; Q9P2X3; Q14602; Q96S65; Q9NZT2; P49419; Q06250; Q8N2G8; Q8NEY3; Q8N0Y7; Q9UKJ5; P15259; Q13066; P02728; A8MXV4; O14990; P43365; P87889; Q9Y5U8; Q8N3T6; Q9H7Z3; O76013; Q9Y334; Q9BZW7; Q9UKY7; Q9Y4K1; Q8ND04; P09565; Q9NYP3; Q70EK8; Q7Z3D6; Q9BTY7; Q9Y6Z2; P09913; Q13951; Q9H0A9; O75920; O95671; Q8NBR6; P01358; Q9GZN8; Q96NG5; Q2QGD7; P07316; Q7RTU5; Q9H2W6; Q9H0N5; Q9UPX8; P43360; Q9NUG4; Q8N1D0; O15442; O14512; O15453; Q96Q35; Q63HK3; Q96AQ2; Q96001; Q6NVU6; Q9NSB2; Q8NE80; Q9P0I2; P43358; Q9BQ65; O75564; O15370; Q14696; O60829; O14879; Q86YL5; Q96JP2; Q9BYS1; A2RTX5; Q4V328; Q2TAL8; P55789; Q8N0V3; O95416; Q8IXU6; O95394; Q13166; P0C7X2; A6NNW6; Q9UKJ3; Q9NRT5; Q86U38; Q9NQA3; O95177; Q96A73; Q14236; Q8N573; P22103; O60290; Q9GZW5; Q9NZP6; O15194; Q8NB25; Q9H6Y2; P53672; Q96FN9; Q9NQR5; Q12894; Q53S33; Q9BQ08; Q96NJ6; O43900}

3818 Pathogen[ P14075] interacts with 233 human

partners: {P53673; Q9P0V3; Q92545; O14530; Q96S65; O75564; Q14602; Q06250; P59022; Q9NQR4; Q14264; Q8WV07; Q8NEY3; Q9UKJ3; Q9H322; Q9NRQ5; Q9Y5R5; P09913; Q8WWQ0; Q99865; Q13951; P0C7X2; Q8N0V3; Q9H0A9; Q13495; Q5T6V5; Q9H3H1; Q96NJ6; Q12800; P01358; Q8NDF8; Q4LE39; Q13166; Q9BZD3; Q9NYP3; Q9UKZ1; Q13296; Q96BZ8; Q99619; Q10571; Q9GZW5; Q9P2X8; Q9BXM0; Q9BY42; Q96002; Q9Y6Z5; P53672; O76087; Q2M3D2; Q5T750; Q68D10; Q9NSB4; Q9Y6Z4; O95177; P13985; Q96M91; Q8N6L1; Q5JTT3; Q14153; Q9NYP8; Q969T9; Q9NSB2; Q9NRT5; Q9HD33; Q9Y4K1; Q53EQ6; Q96FN9; Q5SRH9; P11844; O15453; Q9BVG4; P02728; Q9H2W6; Q9P2X3; A8MXV4; A3KN83; Q96JB5; Q7RTU5; Q12980; Q9H9J2; O43734; Q86TL2; Q9H6Y2; Q4V328; Q13057; Q9NZP6; P43358; A6NF36; Q96AQ2; Q9UBI9; P43359; Q9BYI3; Q9H478; Q70EK8; P22103; Q86V97; Q9HCM9; Q96BJ3; Q9Y5P3; Q9ULD5; O15225; O43583; Q15847; Q9BU89; Q9H6K1; A5PL33; Q9Y315; Q3SYA9; Q5TEC3; Q9NRY5; P56378; Q9BTE6; P49419; O75920; Q92670; O75556; Q9NZV7; Q2TAL8; O76013; O60739; P52746; Q9H0N5; P50221; Q9HB07; Q13066; Q9BQ65; Q9BZP3; Q9NSC5; Q9BUW7; O14523; A2RTX5; Q9H7Z3; O15370; Q9BW92; Q14696; Q96C11; O95671; Q9NYP9; Q9BTD3; Q9Y608; Q5T7W7; Q14657; Q96Q35; A6NNW6; P57060; O15255; Q8NDX9; Q9UJJ7; P56555; O75474; Q9Y4P9; O14490; O60290; P13994; Q01534; P01858; Q8WVZ9; O15442; Q9NWX4; Q86VX2; Q9P2F5; Q9UIG4; Q9Y5M1; Q9H0U9; Q9GZL8; Q8NBR6; Q6IQ32; Q9NV29; P55789; Q9Y2G9; P53370; O60826; Q6NVU6; O14879; P02812; Q96A73; Q9BZE7; Q9UEE9; Q9H6Y2; A4D263; O95394; P58511; P15259; Q9BTY7; Q9NR09; Q8N5J2; Q4VC05; P27469; Q9BZW7; Q8NE00; O76042; Q9NS71; Q7Z794; Q8WVK2; Q8NHX4; Q9BQE9; Q9Y6Z2; Q12894; Q9BZV1; Q99618; O14512; Q9BYS1; Q96NG5; Q9Y592; Q9UII5; Q8WXX7; Q2QGD7; Q9BTE7; O14633; Q9BXM8; P43360; Q96G27; Q9UKJ5; Q63HK3; Q53S33; Q9Y4H4; Q0VDD7; O60829; Q8ND04; Q5T280; O14513; Q9UBL0; Q0PNE2; Q8N0Y7; P09565; Q15527; O00193; Q9GZN8; O14990; Q9BZE9; Q8IZX4; Q6GMV2; Q9Y5U8}

3819 Pathogen[ P0C206] interacts with 270 human

partners: {Q96A33; O60829; Q9Y5M1; Q8N0V3; Q9NZV6; Q9NSB2; Q96002; O95081; Q2M3D2; Q8NB25; Q14657; Q9GZW5; Q14019; Q9Y4H4; Q63HK3; P01358; Q99865; Q0VDD7; Q96S65; Q9H790; P55789; O14530; A8MXV4; Q9GZL8; Q86U38; P43358; Q9UII5; O75474; Q9Y5U8; Q9NZT2; Q9NY30; Q9P2X8; Q9HAU0; Q9UJ55; P57060; Q8N2G8; P01858; Q9BQ65; Q6XD76; Q9BTE7; Q13057; Q8NBR6; Q9Y315; O60826; Q99619; Q9UEE9; Q14602; O95394; P50221; Q13951; A2RTX5; Q9Y4K1; Q8WXX7; Q9BZP3; O00193; Q9Y6Z5; Q96A73; O14879; Q99618; Q3SYA9; Q9NYP9; P53673; Q53EQ6; Q6UW56; Q92670; O43734; Q9BZE7; Q9H6Y2; P09565; Q9Y6Z4; P56555; P43360; Q7Z794; Q96Q35; Q13066; Q9UKJ5; O95671; Q96G27; Q9UBL0; Q9BQE9; Q9HB07; Q9BZW7; Q9NRY5; Q9Y592; Q5JTT3; A6NNW6; Q86VX2; Q86YL5; Q96BZ8; P43359; Q8IZ73; Q5JVJF3; Q4VC05; Q9H6K1; Q14669; O14633; P55145; Q14141; Q8WWQ0; Q9BZE9; Q8IZX4; Q7Z3D6; P02728; Q13495; Q9UKJ3; Q5SRD1; Q9Y4X0; Q96JB5; Q9HD33; Q9UJJ7; Q01534; P22103; O75920; A5PL33; A4D263; Q9H8M2; Q9Y608; Q9H0A9; P43362; O76013; Q9BTY7; P20132; Q13166; Q8WV07; O14490; Q5T280; Q8ND04; Q5T7W7; Q9Y4P9; Q2TAL8; Q13296; P11844; O76087; Q9NR09; Q9H4I8; Q9BUV8; O75564; Q12980; Q9NSC5; Q9BZV1; Q9H322; Q92564; Q9NZV7; O43900; Q96BR9; Q7RTU5; Q9UHY7; Q8WVZ9; Q9BTE6; Q5TEC3; P53370; Q6IQ32; Q96BJ3; Q96JP2; O60739; Q4LE39; Q8IYX8; Q9Y5R5; P09913; Q9NQR4; O15225; Q0PNE2; O95416; Q8NDF8; P59022; P13994; Q9H7Z3; P30039; Q8N1D0; Q8WU76; Q9UPX8; Q9BW92; Q5T6V5; Q8N0Y7; Q9P2F5; Q5VWZ2; Q9BXM0; Q9UKZ1; O15453; Q9NYP8; Q9H0U9; Q9ULD5; Q9Y5P3; O15370; Q9H2W6; Q9H3H1; Q14264; Q9BUW7; Q96C11; Q9BVG4; Q9BYS1; Q8N5J2; Q96M91; P07316; Q9P0V3; Q9HCM9; Q9BY42; P53672; Q96NJ6; P0C7X2; Q9UHD1; Q9GZN8; Q2QGD7; Q96FN9; Q9Y2G9; P27469; Q8N573; Q8NEY3; Q4V328; O15255; P49419; Q8WUX2; Q15847; Q9H9J2; Q53S33; Q9NZP6; O15194; P52746; Q14696; Q9NSB4; O43583; Q9H0N5; Q5SRH9; Q92529; O14512; A6NF36; Q969T9; Q8TAU0; Q8NHX4; Q06250; P87889; O14513; Q9P2X3; O95177; A3KN83; Q9BU89; Q9BXM8; Q9UBI9; Q96CP2; Q14153; Q14DG7; Q5T750; Q8WVK2; Q68D10; O43763; O15442; Q9BYI3; Q9NYP3; Q9Y6Z2; Q9H5X1; O14990; Q9BZD3; Q12800; P13985; O76042; Q9UKY7; Q9NWX4; Q9HCK0; Q96NG5; Q10571; O60290; Q6GMV2; P15259; Q9NRT5; Q86V97; Q12894; Q15527; Q70EK8; Q9Y651; Q01804}

3820 Pathogen[ P03363] interacts with 211 human

partners: {Q8IZX4; O15370; Q86VX2; Q9HAU0; O60829; Q9H7Z3; O60739; P13994; P43360; Q9Y592; Q9NYP9; P49419; Q14264; Q96S65; Q9NZR4; Q9BXM0; Q9NYP3; Q0VDD7; Q8WWQ0; O75474; P10265; Q8WXX7; Q8N5J2; Q8N0V3; Q9P0V3; A2RTX5; Q9H8M2; Q9Y4H4; Q4VC05; P07316; Q8ND04; Q96NJ6; P61081; Q14657; P53672; P02728; Q9GZL8; O43763; Q9UPX8; Q969T9; P09913; Q9UBI9; Q6UW56; Q96JP2; Q9H0N5; Q8TE68; P59022; Q53EQ6; Q10571; Q9Y5M1; Q2M3D2; O95671; Q4LE39; Q8N2G8; Q8WU76; Q9H9J2; Q9Y5P3; P57060; Q9BXM8; Q9Y4P9; Q9HCK0; Q5VWZ2; Q9UKZ1; P01858; Q9H322; O00193; Q9NWX4; P11844; Q9BQE9; O14879; Q9GZW5; P01



358;Q9BTE7;Q9HD33;Q9HCS5;Q9NZV7;Q14019;P50221;O75920;Q13495;Q12800;Q92529;A4D263;Q9Y608;A6NF36;Q13951;P43358;Q9Y2G9;Q9H0U9;Q06250;Q3SYA9;A3KN83;Q14602;P22103;A6NNW6;Q14669;Q9NSC5;Q9H4I8;Q68D10;O76013;Q9BZD3;Q9ULD5;O96002;Q9NR09;Q9BZP3;Q96BZ8;Q12894;Q9BTE6;Q8NEY3;O15453;O60826;Q9Y5R5;Q8NDF8;Q8N0Y7;Q9H2W6;Q9BZV1;O14633;Q63HK3;Q6XD76;Q15847;Q9Y4K1;Q9Y6Z5;Q99619;O75564;Q9H2Z4;Q8NBR6;P13985;Q9NSB2;Q9BZE9;Q9HB31;Q9BQ65;Q8WVZ9;Q9BTY7;Q99618;O14530;Q86V97;Q7Z7M0;Q6FIF0;Q96M91;Q0PNE2;Q5T280;Q96NG5;Q01534;Q9BUW7;Q9Y651;Q7RTU5;Q9BYS1;Q92670;P27469;Q9BW92;Q9UBL0;O76042;Q2QGD7;Q8WV07;Q9HCM9;O43583;Q9UKJ5;Q9H0A9;Q8IYX8;Q6IQ32;O43900;Q96G27;Q9BZW7;Q9BY42;Q5T7W7;Q8WVK2;Q9NZP6;Q9UKY7;Q9Y6Z2;O14490;Q2TAL8;O95416;Q5TEC3;O14512;Q9UKJ3;Q9HB07;Q96FN9;Q8TAU0;Q9H6Y2;O60290;Q9NRY5;P0C7X2;Q9NZT2;Q14141;O15225;P43359;Q12980;Q96BR9;Q96JB5;O15522;O43734;Q7Z794;Q9BVG4;Q15527;Q99865;P56555;Q9BZE7;Q96A73;Q5SRH9;P15259;P52746;Q9UII5;Q9NSB4;Q14153;Q9NQR4;A5PL33;Q9Y315;Q13166;Q13401;P53370;Q96Q35}

3821 [Cluster 348]GO:0035253+C cellular\_component [name] ciliary rootlet [def] "A cytoskeleton-like structure, originating from the basal body at the proximal end of a cilium, and extending proximally toward the cell nucleus. Rootlets are typically 80-100 nm in diameter and contain cross striae distributed at regular intervals of approximately 55-70 nm." [PMID

3822 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9H0B6;Q5TZA2}

3823 Pathogen[ P0C214] interacts with 2 human partners:{Q9H0B6;Q5TZA2}

3824 Pathogen[ P03346] interacts with 4 human partners:{Q12840;Q6P597;Q5TZA2;Q9H0B6}

3825 Pathogen[ Q85601] interacts with 4 human partners:{Q12840;Q6P597;Q5TZA2;Q9H0B6}

3826 Pathogen[ P14079] interacts with 5 human partners:{Q5TZA2;Q12840;O60282;Q9H0B6;Q6P597}

3827 Pathogen[ P03383] interacts with 2 human partners:{Q9H0B6;Q5TZA2}

3828 Pathogen[ P03410] interacts with 6 human partners:{Q9H0B6;O60282;Q12840;Q6P597;Q5TZA2;P33176}

3829 Pathogen[ P14075] interacts with 2 human partners:{Q5TZA2;Q9H0B6}

3830 Pathogen[ P0C206] interacts with 4 human partners:{Q5TZA2;Q6P597;Q9H0B6;Q12840}

3831 Pathogen[ P03363] interacts with 5 human partners:{P33176;O60282;Q5TZA2;Q9H0B6;Q12840}

3832 [Cluster 349]GO:0000502+C cellular\_component [name] proteasome complex [def] "A large multisubunit complex which catalyzes protein degradation. This complex consists of the barrel shaped proteasome core complex and one or two associated proteins or complexes that act in regulating entry into or exit from the core." [GOC

3833 Pathogen[ Q2Q067] interacts with 48 human partners:{Q9Y5K5;Q99460;O75832;P48556;P40306;P55036;O00231;P51665;Q9BRP4;Q15386;P28072;Q9Y244;Q5VYK3;A5LHX3;Q13200;P54727;P25787;Q06323;P04792;P28065;P54725;O14818;Q04323;P60896;Q14997;P60900;Q9UL46;P61289;P28062;Q9UNM6;P25788;Q92530;P25786;Q16401;O00232;Q16186;P28074;P25789;P20618;Q05086;P28070;P28066;Q99436;Q8TAA3;O43242;P49721;P49720;Q9UMX0}

3834 Pathogen[ P0C214] interacts with 51 human partners:{Q05086;Q14997;P51665;P25789;P55036;P28062;A5LHX3;P28065;Q16186;O14818;O43242;Q5VYK3;P04792;P54725;Q9Y244;P48556;P40306;Q13200;O00232;Q9Y5K5;Q99460;P28066;O75832;P49720;P28074;Q9UL46;Q15386;P25788;Q04323;Q9UNM6;O00231;Q06323;P25786;P28072;P54727;Q8TAA3;Q99436;P25787;P35998;P60900;Q9BRP4;Q92530;Q15008;Q9UMX0;P28070;P20618;Q8IYW7;P49721;Q16401;P55072;P17980}

3835 Pathogen[ P03346] interacts with 51 human partners:{P25787;P28070;P25789;P55036;Q99460;Q9UL46;P28072;P25788;P28074;P49721;O14818;Q99436;Q16401;A5LHX3;P25686;P28062;Q9UMX0;O43396;Q15386;P20618;O00232;P55072;O75832;P49720;P28065;P60900;Q5VYK3;P25786;O00231;P54727;P61289;P28066;Q9UNM6;Q04323;Q8TAA3;Q9Y244;P54725;Q14997;Q13200;P48556;Q05086;P51665;Q16186;Q06323;P60896;Q92530;O43242;Q9Y5K5;P04792;P40306;Q9BRP4}

3836 Pathogen[ Q85601] interacts with 44 human partners:{Q5VYK3;P28066;Q9UNM6;P60900;P55036;P25787;P61289;Q8IYW7;P25788;O75832;Q9BRP4;Q15386;Q9Y244;P25789;P20618;P54727;Q04323;P40306;P49720;P54725;P28062;P49721;Q9Y5K5;P25786;P28072;Q13200;P28065;Q99436;P28070;Q8TAA3;Q9UL46;Q99460;O00231;P04792;P48556;Q05086;P28074;Q92530;A5LHX3;Q06323;O14818;Q16401;Q9UMX0;Q16186}

3837 Pathogen[ P14079] interacts with 48 human partners:{Q9BRP4;P28065;Q99436;P62333;P48556;P40306;Q9UMX0;P55036;P28074;O00232;P49720;O00487;Q16186;P25787;O75832;A5LHX3;P35998;Q5VYK3;P61289;Q8IYW7;P51665;P20618;Q9Y244;Q8TAA3;Q14997;Q9Y5K5;P28062;P60900;Q9UNM6;Q99460;O14818;P49721;Q92530;Q06323;P62191;Q15008;P43686;O43242;P25788;O00231;P28066;Q9UL46;P04792;P54727;Q16401;P17980;P28072;Q04323}

3838 Pathogen[ P03383] interacts with 42 human partners:{P55036;Q9Y244;P25789;P60900;Q5VYK3;P40306;Q9BRP4;P49721;Q06323;Q04323;P04792;Q14997;P20618;O75832;P54725;Q9UMX0;Q9UL46;Q9UNM6;P25786;Q99460;Q9Y5K5;P28072;P54727;Q13200;P28065;P28066;Q16401;O00231;P28074;Q92530;P49720;Q8TAA3;P61289;P28062;P60896;P48556;O14818;Q99436;Q16186;P28070;P25787;P25788}

3839 Pathogen[ P03410] interacts with 50 human partners:{P28070;P55036;P25786;Q15008;Q16401;P60900;Q14997;P35998;Q99460;O00232;Q5VYK3;P25686;Q8TAA3;P04792;P48556;P49721;Q8IYW7;Q04323;A5LHX3;P54725;Q99436;P40306;Q06323;Q9UMX0;Q13200;P25787;P60896;P28062;P51665;O14818;Q9Y244;O00231;Q9UNM6;P25789;P49720;Q9Y5K5;Q16186;Q9BRP4;P28072;P25788;P28066;P28065;O43242;P17980;O75832;P20618;Q9UL46;P28074;P61289;P54727}

3840 Pathogen[ P14075] interacts with 41 human partners:{P55036;P25788;P28066;Q06323;O75832;Q16186;Q8TAA3;P60900;Q9UL46;P49720;Q9Y24

4;P04792;Q13200;P48556;Q16401;P28070;Q04323;P49721;O00231;Q92530;P28062;P28074;P28065;P54727;P25786;O14818;P28072;P60896;Q14997;P25787;P54725;P20618;Q9UNM6;Q9BRP4;P61289;P40306;Q99436;Q9Y5K5;Q9UMX0;Q5VYK3;P25789}

3841 Pathogen[ P0C206] interacts with 49 human partners: {P61289;Q99436;P28062;Q9UNM6;P54725;O75832;P40306;P28065;Q14997;Q16186;P55036;P25786;P25788;Q04323;P25787;Q06323;Q9UMX0;P49720;Q05086;O00232;P60900;P04792;O43242;A5LHX3;Q9Y5K5;Q15386;P25789;P20618;Q8IWW7;Q13200;Q8TAA3;P28070;Q99460;P54727;P28066;O14818;P55072;Q5VYK3;P28072;P28074;Q9BRP4;Q92530;P49721;Q9UL46;Q9Y244;P60896;P48556;Q16401;O00231}

3842 Pathogen[ P03363] interacts with 16 human partners: {Q16186;Q9Y5K5;Q04323;P54727;P60896;Q92530;Q9UMX0;P61289;Q05086;O43396;P54725;Q15386;Q9Y244;P04792;Q5VYK3;Q9BRP4}

3843 [Cluster 350]GO:0005578+C cellular\_component [name] proteinaceous extracellular matrix [def] "A layer consisting mainly of proteins (especially collagen) and glycosaminoglycans (mostly as proteoglycans) that forms a sheet underlying or overlying cells such as endothelial and epithelial cells. The proteins are secreted by cells in the vicinity. An example of this component is found in *Mus musculus*." [GOC

3844 Pathogen[ Q2Q067] interacts with 4 human partners: {P01009;P27797;Q9UBB9;Q14129}

3845 Pathogen[ P0C214] interacts with 3 human partners: {Q14129;P27797;Q9UBB9}

3846 Pathogen[ P03346] interacts with 3 human partners: {Q14129;P27797;P01009}

3847 Pathogen[ Q85601] interacts with 4 human partners: {P27797;Q9UBB9;P01009;Q14129}

3848 Pathogen[ P14079] interacts with 6 human partners: {P15502;Q14129;P55081;Q9NQ76;Q9UBB9;Q13316}

3849 Pathogen[ P03383] interacts with 5 human partners: {Q14129;P01009;Q9UBB9;P15502;P27797}

3850 Pathogen[ P03410] interacts with 8 human partners: {Q14129;Q9UBB9;P15502;Q9NQ76;Q9NRM1;P01009;Q13316;P27797}

3851 Pathogen[ P14075] interacts with 5 human partners: {Q14129;P01009;Q9UBB9;P27797;P15502}

3852 Pathogen[ P0C206] interacts with 6 human partners: {P27797;P15502;Q13316;P01009;Q9UBB9;Q14129}

3853 Pathogen[ P03363] interacts with 2 human partners: {P27797;Q14129}

3854 [Cluster 351]GO:0016528+C cellular\_component [name] sarcoplasm [def] "The cytoplasm of a muscle cell\_ includes the sarcoplasmic reticulum." [ISBN

3855 Pathogen[ Q2Q067] interacts with 3 human partners: {Q96EV8;P05413;O60936}

3856 Pathogen[ P0C214] interacts with 3 human partners: {P05413;Q96EV8;O60936}

3857 Pathogen[ P03346] interacts with 4 human partners: {P05413;Q15149;Q96EV8;O60936}

3858 Pathogen[ Q85601] interacts with 3 human partners: {P05413;O60936;Q96EV8}

3859 Pathogen[ P14079] interacts with 4 human partners: {P05413;Q15149;O60936;Q96EV8}

3860 Pathogen[ P03383] interacts with 2 human partners: {O60936;Q96EV8}

3861 Pathogen[ P03410] interacts with 4 human partners: {P05413;O60936;Q15149;Q96EV8}

3862 Pathogen[ P14075] interacts with 2 human partners: {Q96EV8;O60936}

3863 Pathogen[ P0C206] interacts with 3 human partners: {P05413;O60936;Q96EV8}

3864 Pathogen[ P03363] interacts with 3 human partners: {Q15149;P05413;O60936}

3865 [Cluster 352]GO:0031083+C cellular\_component [name] BLOC-1 complex [def] "A protein complex required for the biogenesis of specialized organelles of the endosomal-lysosomal system, such as melanosomes and platelet dense granules. Many of the protein subunits are conserved between mouse and human\_ the mouse complex contains the Pallidin, Muted, Cappuccino, Dysbindin, Snapin, BLOS1, BLOS2, AND BLOS3 proteins." [PMID

3866 Pathogen[ Q2Q067] interacts with 10 human partners: {Q9UL45;Q9BQD3;O95295;Q5SQN1;Q9NUP1;Q6QNY0;Q96EV8;Q8TDH9;Q6QNY1;P78537}

3867 Pathogen[ P0C214] interacts with 10 human partners: {O95295;Q9BQD3;P78537;Q8TDH9;Q6QNY0;Q5SQN1;Q9UL45;Q96EV8;Q9NUP1;Q6QNY1}

3868 Pathogen[ P03346] interacts with 11 human partners: {O95295;Q5SQN1;Q6QNY0;P78537;Q96EV8;Q6QNY1;Q9UL45;Q8TDH9;Q9BQD3;Q9NUP1;Q86Y82}

3869 Pathogen[ Q85601] interacts with 9 human partners: {Q6QNY0;Q9NUP1;Q9BQD3;O95295;P78537;Q96EV8;Q5SQN1;Q6QNY1;Q8TDH9}

3870 Pathogen[ P14079] interacts with 10 human partners: {Q6QNY0;Q5SQN1;Q9UL45;Q9BQD3;Q8TDH9;O95295;Q96EV8;Q9NUP1;Q6QNY1;P78537}

3871 Pathogen[ P03383] interacts with 8 human partners: {Q6QNY0;Q9BQD3;O95295;Q8TDH9;P78537;Q9NUP1;Q96EV8;Q6QNY1}

3872 Pathogen[ P03410] interacts with 10 human partners: {Q9NUP1;P78537;Q6QNY1;Q6QNY0;Q5SQN1;Q9UL45;O95295;Q9BQD3;Q8TDH9;Q96EV8}

3873 Pathogen[ P14075] interacts with 8 human partners: {P78537;O95295;Q9BQD3;Q6QNY1;Q6QNY0;Q9NUP1;Q8TDH9;Q96EV8}

3874 Pathogen[ P0C206] interacts with 10 human partners: {P78537;Q9UL45;Q5SQN1;Q6QNY1;Q8TDH9;Q96EV8;O95295;Q9BQD3;Q9NUP1;Q6QNY0}

3875 Pathogen[ P03363] interacts with 8 human partners: {P78537;Q9BQD3;Q5SQN1;Q6QNY1;O95295;Q8TDH9;Q6QNY0;Q9NUP1}

3876 [Cluster 353]GO:0031464+C cellular\_component [name] Cul4A-RING ubiquitin ligase complex [def] "A ubiquitin ligase complex in which a cullin from the Cul4A subfamily and a RING domain protein form the catalytic core\_ substrate specificity is conferred by an adaptor protein." [PMID

3877 Pathogen[ Q2Q067] interacts with 7 human partners: {Q9NZJ0;Q8TEL6;Q16531;Q13216;Q13619;Q96SW2;P62877}

3878 Pathogen[ P0C214] interacts with 7 human  
partners:{Q13619;P62877;Q13216;Q96SW2;Q9NZJ0;Q8TEL6;Q16531}

3879 Pathogen[ P03346] interacts with 7 human  
partners:{Q9NZJ0;Q16531;Q96SW2;P62877;Q13216;Q13619;Q8TEL6}

3880 Pathogen[ Q85601] interacts with 7 human  
partners:{Q16531;Q13216;P62877;Q96SW2;Q9NZJ0;Q13619;Q8TEL6}

3881 Pathogen[ P14079] interacts with 7 human  
partners:{Q8TEL6;Q16531;Q13216;P62877;Q9NZJ0;Q96SW2;Q13619}

3882 Pathogen[ P03383] interacts with 6 human  
partners:{Q9NZJ0;Q13216;Q96SW2;Q8TEL6;P62877;Q16531}

3883 Pathogen[ P03410] interacts with 7 human  
partners:{Q96SW2;Q8TEL6;P62877;Q16531;Q13216;Q13619;Q9NZJ0}

3884 Pathogen[ P14075] interacts with 6 human  
partners:{Q13216;Q8TEL6;Q96SW2;Q16531;Q9NZJ0;P62877}

3885 Pathogen[ P0C206] interacts with 7 human  
partners:{P62877;Q16531;Q13216;Q13619;Q96SW2;Q8TEL6;Q9NZJ0}

3886 Pathogen[ P03363] interacts with 7 human  
partners:{Q16531;Q13619;P62877;Q96SW2;Q13216;Q9NZJ0;Q8TEL6}

3887 [Cluster 354]GO:0005886+c cellular\_component [name] plasma membrane [def] "The membrane surrounding a cell that separates the cell from its external environment. It consists of a phospholipid bilayer and associated proteins." [ISBN

3888 Pathogen[ Q2Q067] interacts with 300 human  
partners:{Q9BTW9;P04156;Q01844;Q8TCS8;Q9Y2J2;Q01082;P25490;Q96J02;P46108;O00213;Q9Y6X8;Q16236;O94973;P31749;O00186;O14786;Q9H910;Q96KQ4;Q9HAU4;Q5D1E8;Q9Y5V3;Q92681;Q96KN1;Q9Y3F4;Q13033;Q96QU8;O95782;Q14315;O60296;Q8NI35;Q14160;Q9NPB6;Q96B97;O43493;P30419;Q8IZH2;P21980;O43663;P41220;Q14678;P40763;Q8N1N5;Q9BYG5;O43159;O95886;Q8N3V7;Q9NSC5;Q8IWW8;Q99816;Q96ST8;Q9BZQ8;Q92797;O96019;Q9UDY8;Q96JI7;Q9BXM0;O60437;Q9C086;Q5VZE5;Q460N5;Q15046;P05062;Q8IV36;Q5T1C6;Q9NYJ8;P63167;Q8N6F7;O43752;Q6UUUV9;Q9P1A6;Q13884;O95999;P56945;P07900;Q96EV8;Q6NZI2;P49789;Q86WV1;Q8N7J2;Q9H307;Q9HCH5;P29966;Q96CN9;Q7L804;P02511;O00401;P67775;O14910;Q5JTC6;P04792;Q7Z614;Q13415;Q5BJF2;P15924;O14907;Q96KP1;Q9NZC7;Q9NV11;Q9NR22;P63010;Q9BV57;P54105;Q5EBL4;P37802;P11166;Q86UL8;P61077;O95049;P23528;O00170;Q9UHD9;Q99871;Q7Z2W4;Q8IXQ5;Q8IX03;P11142;A6NDB9;Q99569;Q8N5C8;O60711;Q96IF1;Q96CW1;Q07021;Q99549;Q12959;P63146;O43745;O15162;O95721;Q9UDY4;Q13469;Q8N0Z2;P04264;O94811;P11532;Q29RF7;Q07157;Q6X4W1;P17987;P20073;P78352;Q9UJMJ3;Q15047;Q5H9F3;P11171;Q9BPZ7;O00401;P67870;Q9YBN9;Q9UPX8;Q96DB2;Q00610;P84022;Q9HB19;Q92796;Q16222;O14641;Q6P9F0;P46939;P25063;Q96FQ6;Q14232;Q9UKJ5;Q8TBZ0;O15105;Q7RTS9;P29474;Q9Y2N7;Q99732;P08865;Q96JB2;Q96LC9;Q9UDY2;Q00587;Q9BUL8;Q02410;Q99550;Q9Y6G3;O43918;Q9NVD7;Q8TF46;O95810;P04406;Q8TD16;Q5TCQ9;Q9Y4E1;O60291;Q5TB80;O60299;Q15599;Q9P278;O94850;Q9UK41;O95232;Q9NZU7;P50570;O60303;P16333;P62879;O75122;Q9H4A6;Q8TAC9;Q5TZA2;Q96RU7;Q9NRI5;P78395;Q99962;Q02952;Q68DX3;Q16186;Q12968;P53618;Q8WV24;P52630;Q95996;P25963;P0CG47;Q9UGK3;Q06744;Q717R9;O75150;P13647;Q9UKT9;Q5HYK7;Q96IY1;Q13642;O95817;O00161;P80723;Q9NS23;Q15833;P0CG48;P60953;P40926;O43318;Q495M9;Q6ZVN8;P27986;Q14244;Q86WJ1;Q9BQE4;Q93052;P18848;P63000;P35579;Q96FJ2;Q3SYG4;P49006;O14512;P62987;Q9BX66;Q99689;P08670;Q9BVN2;Q9UPT5;Q8NC51;Q96IZ0;Q92597;P09496;Q9BYG4;P14672;P06733;Q8ND76;Q12816;P51808;Q9NVV4;P27816;Q86WH2;P27815;P61586;Q92556;P22681;P60510;Q9Y250;Q00987;Q9BTE3;Q9HCI5;Q86YD1;Q8NFH5;Q6MZT1;Q96FF9;Q96EY1;Q9NRR3;Q8NFG4;P43355;P23508;Q9BT92;Q8IYI6;Q7Z699;O00422;Q9H2G4;Q9ULD2;Q96M11;Q9NUP9;O14490;Q9H1J1;O60716;O95429;P62979}

3889 Pathogen[ P0C214] interacts with 334 human  
partners:{P22681;Q6X4W1;Q9BPZ7;O00170;P29474;Q96CW1;Q15833;Q9NRR3;Q96J02;O14490;O00213;Q8ND76;Q9UDY4;Q9P278;Q8IX03;Q8IWW8;P41220;O14910;P49006;Q8WV28;Q68DX3;P63000;O95817;O14786;Q9HAU4;Q29RF7;P29966;O95810;Q9Y5V3;Q13469;Q8N0Z2;Q9H4A6;Q15047;Q8NFH5;Q13620;Q8N6F7;Q8TBZ0;Q86YD1;P49368;P16157;P04264;Q9UPX8;Q9NRR8;P56945;Q8NI35;Q9UI12;Q9NRI5;Q96J17;Q96IZ0;P62993;P49789;Q9NS23;Q16186;O00159;O43159;O60716;Q7Z699;P02511;O94811;Q9UKJ5;Q9UPT5;P53396;Q96DB2;Q5TCQ9;Q96LC9;P27815;Q00987;Q16222;Q9Y4E1;Q92796;Q8TAC9;Q9UM54;Q460N5;P15924;Q9BTW9;Q9C086;Q495M9;Q9UDY8;Q15599;Q9BV57;P62166;P53618;O94921;Q9Y6N9;Q92797;Q8IV36;P61586;Q13033;P04792;P84022;O00186;Q8NFG4;Q9BX66;O14907;Q14678;Q9UJMJ3;Q13515;Q5H9F3;Q9BXM0;P17026;Q9H307;P60953;Q12816;Q9HCH5;Q6NZI2;Q5HYK7;Q9P1A6;O60299;O43493;O43745;O95721;Q9BUL8;Q14232;O60296;P78395;P68402;O60437;Q9NSC5;Q9H910;P51808;P08865;Q7Z614;P05121;Q9NZI8;Q9UK41;Q13884;Q9Y6I3;Q99962;P40926;O75330;O60551;Q01844;O43318;Q96FF9;O95232;O95049;P43355;Q9H0M0;Q7Z2W4;P05062;Q8TF46;Q01082;P27816;P61077;P11166;Q7L804;Q96QU8;Q9NZC7;Q9BT92;Q9Y250;Q96CN9;P60510;Q14315;Q9BTE3;P11532;Q9HCE7;Q8IZH2;Q8N5C8;P78352;Q96ST8;Q14696;Q9HB19;P63010;Q13642;Q12968;Q9Y2N7;P11168;P18848;Q6P9F0;O75122;Q92681;Q86WH2;Q92597;Q99732;Q9NPB6;P35580;Q8IVI9;P14618;O14613;Q9H8T0;Q14244;P09104;Q99549;O15162;Q9BZQ8;P0CG48;O14641;Q5VZE5;Q9Y2H0;Q6MZT1;O00422;O95999;P46939;Q9UQC2;Q96MP8;Q92556;Q93100;O15105;P08670;Q7RTS9;O43663;Q9NV11;Q8TCS8;Q99689;O95278;Q3SYG4;Q9ULD2;P42574;Q9Y6G3;O95886;P30043;Q99550;Q96M11;P67775;Q6UUUV9;P25963;Q96KN1;Q9Y6X8;O95429;O60711;Q96KQ4;Q8TD16;P06733;Q9NZU7;P01008;Q96EV8;P25063;Q9Y3F4;Q5EBL4;O43752;Q9BRT3;P62879;O94850;Q12959;Q9H2G4;Q99871;Q14160;Q8IXQ5;Q9UDY2;O43918;Q9HD26;Q9BQI5;P62987;P16333;Q9UKT9;Q99816;Q86WV1;Q96RU7;O60291;O94973;Q6ZVN8;P04156;P05120;Q96JB3;Q9BYG5;Q9HCI5;Q02410;P0CG47;P21980;Q96FJ2;Q96Q06;O75150;P13647;Q8N7J2;Q8NC51;Q86WV6;P17987;P80723;P30419;P40763;O00401;O76083;P09496;Q96GD0;P23508;P50570;Q5T1C6;O95782;Q9NVD7;Q8WV24;Q96FQ6;Q8N3V7;P67870;O14512;Q9BQE4;P46108;Q15046;Q9BWX1;Q96IY1;P62979;Q07157;P52630;Q16762;P53680;Q5D1E8;Q9NVV4;P14672;P20073;Q96JB2;Q5TB80;P27986;Q17RV6;Q8IYI6;P46020;Q7L5Y9;Q5JTC6;O00161;Q9UHD9;P04406;Q9NY33;Q86WJ1;O96019;Q9NYJ8;Q96B97;Q96EY1;P63146;P11171;P31749;Q9BYG4;Q9Y3B8;Q9NR22;Q5TZA2;Q9UGK3;P36957;P80303;Q8N944;P63167;Q13415;Q16236;P11142;Q9NVN3;Q96NN9;Q9H1J1}

- 3890 Pathogen[ P03346] interacts with 405 human partners: {O95166; Q9Y6N9; O60437; Q92681; P37802; Q9NSC5; Q8IYI6; P15924; Q15833; P54105; Q9NRI5; P21283; Q86UT5; Q96CN9; P21980; Q96J02; Q8N3V7; O14490; O00213; Q969H4; Q99828; Q8ND76; Q9NWT1; Q96FJ2; O43752; Q8N0Z2; Q15438; Q96NL6; Q96B97; Q8NC51; Q86UR1; P50570; Q9HAU4; Q9UPT5; Q6ZVN8; Q6X4W1; Q96MP8; Q9UHD9; Q9NVI1; Q96FQ6; Q14315; P80303; P04406; P07900; Q86YD1; Q14678; Q9UDY2; Q9HB19; Q8WV24; Q96A65; Q96RT1; Q68DX3; O75150; O43918; P43355; Q96FF9; P29474; Q8N1N5; Q96JB2; Q96M11; P63010; Q99569; O60716; Q13515; Q13449; Q29RF7; Q99871; Q9UKS6; Q96LC9; Q9H6Q3; Q9H4E7; P23508; Q96DB2; Q8IVI9; O95171; P11277; P20073; P62987; Q9UKT9; Q96KQ4; P25963; P35579; P78352; Q8N6F7; Q9NRR3; P53680; Q8N7J2; Q9C086; Q5TCQ9; Q9BV57; Q13884; Q9UDY8; P51808; Q9BPZ7; Q96JI7; Q6ZWB6; Q13322; Q8IWW1; Q9H4A6; Q99689; Q8WXH0; Q99962; Q96QU8; O43159; P25490; Q9NZU7; Q5VZE5; P80723; Q8IV36; Q8IXQ5; Q15149; P0CG48; Q9H307; Q9NZI8; Q9H2G4; O75970; Q5H9F3; P17026; P49789; Q95782; O00170; Q99816; P53618; Q9UQC2; Q9HCH5; Q07021; Q16222; Q13835; P11142; Q8NFG4; Q9NPNB6; Q96IF1; Q00587; Q8IX03; P60953; Q6MZT1; O60296; Q9BXM0; Q99767; Q93050; O95630; P62993; P06703; P42574; Q96IY1; Q9NZW5; Q7Z614; Q15942; Q8NFH5; Q9UK41; P67775; O14613; O15105; Q9Y5K6; Q9BX66; Q969G9; O00192; O75330; O60662; P55196; Q9UKJ5; Q9P278; P09496; P46939; Q6NZI2; Q9BT92; Q9BUQ8; P16157; P26038; Q02410; P61077; Q5BJF2; O00186; Q00987; Q8TEW0; P62879; Q13620; P16452; Q12816; Q8IYJ3; Q95999; P06733; Q8IZH2; O00422; Q92796; Q8N5C8; A6NDB9; Q13424; Q96ST8; Q16236; Q9Y3P8; Q8TAM2; Q9BRT3; Q6UW56; Q5TB80; Q68DU8; O00299; P16333; Q9H910; Q8NI35; O60303; Q01082; P18848; O00161; P84022; Q12968; P11171; Q14232; Q96IZ0; O95232; O96019; Q9H8T0; P08865; Q8N3R9; P02511; Q7L804; P56945; Q15599; Q9Y2H0; Q96I34; Q8TAC9; Q9NUP9; Q13033; O14641; Q86UL8; Q8TBZ0; Q92597; Q13469; P31749; Q96EV8; P78395; Q9BZQ8; Q9Y3F4; Q9NYJ8; Q9HD26; Q9BYG5; P63146; Q13938; Q15019; P27815; Q9Y4G6; Q7RTS9; Q9NZC7; Q9UGK3; Q9Y2N7; Q8TCS8; O95817; Q96CW1; O43491; O95721; P42566; P48059; Q9UKA4; Q3SYG4; Q9NVV4; Q9Y250; P49368; Q9NR22; Q6UUU9; O95886; Q9Y6X8; O14907; Q02952; Q5D1E8; P40926; Q8TD16; O95049; Q07157; Q13415; Q9BYG4; P11166; Q969K4; Q9ULD2; O00522; O95810; Q6Q0C0; O94850; Q9Y2J2; O75554; Q9Y5V3; Q5EBL4; P46108; O94811; O95996; Q13642; P62166; Q9Y6G3; O75122; O60299; P29966; P62979; Q9HAP6; Q9NVD7; Q96T49; P08670; Q96RU7; P27816; O60291; Q9BUZ4; Q92797; Q9HBT1; Q9Y4E1; P36405; Q9NVN3; P14317; A6NDV4; P0CG47; Q14244; Q8IWW8; Q969F2; P49006; Q717R9; Q15047; Q15700; P13647; Q5TZA2; Q5HYK7; Q99550; Q6ZN30; Q99549; P04156; P06744; P11532; P63167; Q9BVN2; P22681; P25063; Q9UI14; Q9UDY4; O43493; P05062; Q8WV28; Q96CX2; Q14160; P67870; Q9H0M0; Q6P9F0; Q16186; O94921; Q7ND76; P23528; Q9Y6I3; Q7Z699; P41220; O43318; Q13283; P49755; Q01844; Q9C0H9; O14512; P04264; Q93052; Q86T24; O95429; P28290; O95278; Q86WJ1; Q460N5; O43663; Q86WH2; O00401; P52630; Q9BQI5; P14672; O94973; P40763; O75386; Q9UPX8; P0C2W1; Q9BWX1; Q92556; Q86WV1; Q96KN1; Q9BUL8; O60711; Q9NS23; P63000; Q495M9; Q9NP85; Q8TF46; Q96EY1; Q9NRD5; Q00610; P04792; Q9BTE3; Q14910; Q96KP1; P60510; O14786; P27986; Q9P1A6; O43745; Q96JB3; Q5JTC6; Q9HCI5; Q9UBF9; Q7Z2W4; P61586; Q12959; Q9H1J1; Q9UJM3; Q99732; P17987; O15162}
- 3891 Pathogen[ Q85601] interacts with 341 human partners: {Q99569; P37802; Q8IYI6; Q96IZ0; Q96FQ6; O00401; Q99816; Q96CN9; Q96J02; Q9NZC7; O14490; Q9Y250; O00186; O00213; Q86WV6; Q96LC9; O43493; Q8NC51; Q96DB2; Q9UPX8; P27816; Q9NZU7; P22681; P62899; P11168; Q9HAU4; Q9UPT5; Q9Y2J2; Q96JB3; Q6X4W1; P16157; Q9NVD7; Q00610; P31749; Q16236; P62973; Q9BTE3; Q9NUP9; P09496; P63146; Q9NR22; O14910; P51808; P36405; Q8WV24; Q96A65; Q13884; Q7L804; Q9NYJ8; Q6UUU9; Q96RT1; Q9UQC2; P49789; Q17RY6; Q5HYK7; O60437; Q9Y5K6; Q9Y2N7; Q96CW1; Q15833; Q99871; Q9BYG5; P23508; Q8TAC9; O95049; Q9H307; O95166; P41220; Q14244; P08670; P35579; Q96MP8; Q9BX66; Q9BUL8; Q96Q06; Q9C086; Q9UDY8; P16333; Q9BPZ7; O75330; Q99962; Q86UL8; P18848; P40763; Q8IV36; Q8ND76; Q8NFG4; Q93050; Q9UDY2; P27815; Q13415; Q9P1A6; Q7L5Y9; Q93052; P63000; Q9BVN2; Q9BXM0; P17026; P80303; Q7Z2W4; Q9BTW9; P25490; Q9HCH5; Q13642; P06733; O43159; P11532; P46108; Q99767; O96019; P06744; Q15046; P0CG48; Q7Z614; P11171; Q13469; P49006; Q9NS23; Q01082; Q99549; P17987; O60551; Q9BT92; P05062; Q9UHD9; O14786; Q29RF7; P80723; O95278; Q9BV57; O43745; P61077; O96015; Q9BZQ8; P27986; Q8IZH2; O43663; O43752; Q8N5C8; P52630; Q96ST8; O00170; P15924; O60291; O60716; Q9NRR3; O75122; Q16222; Q13515; Q86WV1; Q8NI35; Q96KQ4; Q6MZT1; O60296; Q6P9F0; Q9Y6G3; O60711; Q12968; O00159; Q8N6F7; Q9H8T0; Q9UK41; Q92681; P56945; P11166; Q94811; O95233; Q9H6Q3; O95810; Q9UGK3; O14641; Q9NVI1; P14618; P04264; Q96EV8; Q5VZE5; Q8IXQ5; Q9HD26; Q96QU8; Q9NQC7; Q8N6T3; Q7RTS9; P02511; Q8TCS8; Q9Y5V3; Q14678; Q9Y6N9; P21980; Q68DX3; P11142; Q96M11; Q8N3V7; P46939; Q9UKJ5; Q9HB21; P50570; Q15942; Q9Y6X8; P54105; O14907; Q8IVI9; Q8TD16; Q96B97; Q9Y3F4; O14613; Q14160; P78352; Q5TB80; O94921; Q99550; P53680; Q9BVA0; Q5TCQ9; Q12816; Q8NFH5; Q92796; Q99689; Q9UDY4; Q9NPNB6; Q13033; P05121; P61586; P13315; Q96J02; P07900; Q5JTC6; O95630; P29966; Q9H4A6; P67775; P62979; O94973; P48059; P29474; Q3SYG4; Q96RU7; Q07157; P20073; O95996; Q92797; Q5H9F3; O75150; Q96IF1; P84022; Q9BWF2; P53618; P05120; Q12959; P01008; Q96IY1; P14317; P0CG47; Q9UJM3; P60953; Q9NSC5; P60510; Q9NRI5; Q6NZI2; P13647; Q5TZA2; Q9HB19; P04156; P04792; O15105; Q02410; Q86WJ1; P35580; Q9Y6I3; P63010; Q92597; Q9H2G4; Q96CX2; Q7Z699; P67870; P04406; O15162; P62987; Q9UM54; O95886; Q13620; P23528; Q9BWX1; O95999; Q9NVV4; Q15047; O43318; O00422; O14512; P30419; Q8N0Z2; Q8N7J2; Q99732; Q460N5; P17677; Q6Q0C0; Q8IX03; Q86WH2; P43355; Q00987; P14672; Q96KP1; Q9H910; O95429; P62166; Q07021; O95171; P08865; Q9P278; Q96FF9; O95817; Q5T1C6; P78395; Q14232; Q96KN1; O00161; P63167; Q6ZN30; Q8TF46; Q96EY1; Q9UKT9; Q495M9; O43918; P40926; Q9ULD2; O95721; Q01844; Q16186; Q5D1E8; Q15599; Q86YD1; Q5EBL4; Q9BQE4; Q8IWW8; Q9HCI5; O60299; O95782; Q9BYG4; Q9H1J1; Q8TBZ0; P25963}
- 3892 Pathogen[ P14079] interacts with 556 human partners: {O15255; P31751; P04083; Q5EBL4; Q8NFH5; Q9NY59; Q02952; Q9UKA4; Q96CW1; Q8N944; Q9BXL7; Q9NRQ2; P16452; O00422; Q9Y2J2; P35579; Q96IY1; P13164; Q9BTW9; O95166; P62333; Q7L804; Q96JI7; O95425; Q68DX3; Q9H295; P37802; Q5TZA2; Q8IXS6; Q9Y3B8; Q96JB3; P27216; Q8N6Q3; O15162; Q9NR22; Q9Y4E1; O14613; Q5D1E8; Q8N5C8; Q14242; Q86WV1; Q8N307; P11142; Q8N7P3; C9JDP6; P17677; Q8TB68; Q8IVK1; Q8WV24; P0CG48; Q6PP77; Q00610; O95876; Q15047; Q16222; P52630; O43745; Q14761; Q92681; Q9BQE4; Q9NS23; O43187; Q9NRR3; Q96NL6; P11532; Q01518; P53779; Q9BYG5; P61570; P51808; Q6ZVN8; P25705; P11171; Q6UX01; Q96DB2; Q9UDY2; O95999; Q8IWW8; Q8NFM7; Q9BVN2; Q13415; Q7Z2W4; Q8NBQ7; Q1HG43; Q03597; Q51700; Q9Y2N7; Q01082; P09912; P56750; O95817; Q96FJ2; Q8TAF9; Q9UKJ5; Q9NVD7; A6NDV4; Q9UJM3; Q9Y6I3; Q96G30; Q14210; Q13021; O75781; P20396; Q9UKS6; P13498; Q9NP84; O14641; Q13620; Q92542; Q08722; P02511; Q9NZ42; P15924; Q9NRR8; Q9HBM0; P04156; Q9H1K0; Q86UT5; A6NM45; Q99871;

Q8IYJ3;Q00170;Q13033;Q07157;Q96LB4;Q99549;A6NLE4;Q9H1J1;P49006;Q9BWF2;Q96FF9;Q6P9F0;Q93052;Q02410;Q14696;P14672;Q92556;Q95429;P24588;Q13835;Q9UKH3;Q902F9;P16298;Q9BW04;Q9H910;P26038;Q9UKY0;P42566;P40123;P21980;Q9UGK3;Q8NFJ9;Q9Y6G3;Q9UDY4;Q16585;Q8NE01;Q6ZUJ8;Q95867;Q9H8T0;Q9Y250;Q717R9;Q93100;Q16186;Q96ST8;Q9HCH5;Q9UI14;Q8NI32;O60303;Q12816;P31358;Q9UBF9;Q9NRI5;Q8N3I7;O00213;O60895;Q14244;P06744;Q9NP85;Q9BSK0;Q969X0;Q8ND76;Q9BY14;Q9BUL8;Q9Y3F4;O60437;P57679;P16157;Q8N7J2;Q7L5Y9;Q12968;Q96B97;P41220;P62979;O71037;O14907;Q9UM54;Q86UK5;Q8N1N5;Q8TF46;Q92579;Q9UPT5;Q99828;Q9BTE3;O60711;Q14118;Q9NRX5;Q9HAU4;Q13424;Q6UX82;O94905;P11166;Q496H8;Q9Y4G6;Q5B5F2;Q9C0H9;P06733;P61077;Q96NT5;Q0VD83;Q9NQ90;P61550;Q9H307;Q9HCI5;Q9BUZ4;Q9Y2H0;P62987;O00501;Q9H665;P50552;P46939;Q9NPD7;Q96GD0;Q96KP1;P50570;Q86WH2;Q6UXB3;Q9HB19;A6NDB9;P02686;P35611;Q00987;Q8N292;Q92797;Q96I34;Q96RT1;Q9NVI1;Q15078;Q8IWX6;Q8TEW0;Q17RY6;Q6X4W1;B4DS77;O00186;P80303;Q9HD26;Q6NZY7;Q9H8M9;Q15149;Q9NUP9;O95721;Q5H9F3;Q9NQX7;Q15833;Q8IVI9;P36405;O95868;Q92629;P08758;Q9Y5V3;P54826;Q8N6F1;Q7Z699;O43663;Q8IZH2;Q13642;Q96GC9;Q8NCG7;Q9BXM0;Q7Z7J9;Q16586;Q14315;Q9Y287;Q8NHG7;Q8NBR0;O95782;Q99689;Q15046;Q86UW1;Q96HD9;Q69384;P17026;Q8IX03;Q8NC51;Q969L2;Q9NZC7;Q99732;Q8NC96;Q8TAC9;Q6UWN0;Q96IF1;P23528;Q8WV28;P29966;P49755;Q8IV36;Q8NI35;Q86WV6;O95049;Q5VXU3;Q9H2G4;O94772;P23508;O60610;Q9BYI3;P55808;Q15599;Q15075;Q9BRT3;Q9BQI5;P17987;O95996;Q9HAB3;Q5T1C6;Q9NVZ3;P16333;Q9BYG4;Q9NY33;O95866;Q6IAA8;Q8TAM2;Q99569;Q8NFG4;P25063;Q86WJ1;Q5VZ72;O95164;P62166;O94811;O00559;Q9NVV4;Q8N8Q9;Q99445;Q8N3V7;Q68DU8;Q96T49;Q8WXH0;O60551;Q8WZ55;Q96IZ0;P30419;P61586;P07900;Q96B33;Q9HAP6;Q13326;Q8WU20;Q5GH77;Q9BQJ4;Q6NSX1;Q9NV70;O95171;Q96KN1;P63010;Q5BLV9;Q96Q06;Q9NSC5;P11277;Q96J02;Q9NX77;Q5HYK7;Q9H6Q3;Q7RTS9;Q9NZ20;Q8N3R9;Q5VZE5;Q6MZT1;Q969H4;Q9H490;Q16236;O94973;Q96LD1;Q8WVH0;Q8N2G4;Q8N8A4;Q8WW43;O42043;Q8IWW1;Q96RU7;Q7Z614;Q8TBZ0;Q6ZVT0;Q5TB80;Q9ULD2;Q8N0Z2;Q86UL8;O60296;Q00587;Q86Y91;Q9NQ60;Q16762;Q6PJW8;Q96A65;Q8IYI6;Q9Y5K6;Q902F8;Q6NZI2;Q8N9M5;Q9Y6N9;P27815;Q93050;Q96LC9;O14512;P62993;O95810;Q05682;Q8N6F7;O43918;Q99541;P20073;Q8TCY5;P28290;O43159;P63167;O43752;P60510;Q9BT92;Q495M9;Q9HB21;Q9Y6Y9;Q96CX2;O95232;Q9UKB5;P67870;O60299;O43687;Q9UI12;O43561;P08865;Q14699;Q13515;P78395;O95886;O75204;P15941;Q96EV8;P61567;Q9NS86;P08670;O43493;Q96MP8;Q9P1A6;P49023;Q16625;Q9NS93;P49773;P04264;P80723;P61566;Q52LD8;Q96JB2;Q8N8D7;Q13469;P06703;Q969W9;Q92796;Q3SYG4;Q53GL0;Q29RF7;Q14232;Q9NPNB6;Q9H6S1;P04792;Q96KQ4;Q9UHD9;Q9UEY8;Q9BPZ7;O96015;O75330;P49368;Q7RTP0;P49789;Q96FX8;Q99816;Q9BX66;P25490;Q86XT9;Q96QU8;O15105;Q5JTC6;P54105;P48059;Q9BVA8;O75122;Q9Y6X8;Q07021;P0CG47;Q9H4A6;Q6PIZ9;Q9NVD7;Q9Y239;Q9UQC2;Q14678;Q9NQ7;P43355;Q9BZQ8;Q96M11;Q13145;Q9Y4J8;Q9NQ40;P63146;Q9NZW5;Q9NZB2;O60716;Q9NVN3;Q15438;P53680;Q8TD16;Q5SSG8;Q9BV57;Q96EY1;Q99836;Q86YD1;Q96B86;Q96CN9;Q8IWB1;Q6UWI2;O94850;P27816;Q8TCS8;Q9NZU7;P35241;O14490;Q9BWX1;Q15849;P46108;Q3MUY2;P09496;Q99550;P46020;Q15390;Q99767;O00522;Q9Y3P8;P49917;P13647;Q9UKT9;O75970;Q99962;P10636;Q9UBK5;O00401;P04406;Q9UPX8;Q9GZM5;Q15942;Q9GZY6}

3893 Pathogen[ P03383] interacts with 256 human partners: {Q14244;Q17RY6;Q92681;Q96CW1;P15924;Q9NVV4;O60716;P27986;Q7L804;O00213;Q96LC9;P62879;P56945;Q9P1A6;Q15047;O96019;Q00610;P29474;P40926;A6NDB9;Q14678;Q13469;P62987;Q13515;Q96JI7;P51808;Q14160;Q13884;Q5VZE5;Q6UUV9;P53618;P54105;Q9BSK0;P08670;P49789;P04156;Q5HYK7;Q6NZI2;O15162;Q96FJ2;P41220;Q9HD26;Q9NRI5;Q8IWW8;Q8TAC9;P31749;Q9BPZ7;Q9UJM3;Q9C086;O95886;O94811;O60299;Q99689;Q8NFH5;P60953;Q96KQ4;Q9BTE3;Q8IV36;P02511;O00186;Q86WV1;P25063;Q6MZT1;Q5D1E8;Q92797;P49006;Q86WH2;Q96IZ0;P63000;P52630;Q96JB2;Q9BXM0;O14490;O00170;Q99816;Q9HCH5;Q8N1N5;Q8IYI6;Q8TCS8;P04792;P67775;Q7Z614;Q9Y4E1;P07900;O43493;Q92597;Q96KP1;Q6X4W1;Q9P278;P46939;O43318;Q96EV8;Q9Y6G3;O95049;Q96CN9;Q9BV57;P61077;Q07157;P11168;Q8NHG7;Q9BZQ8;O43159;Q8N5C8;Q8NFG4;O00401;Q99871;Q5TZA2;O15105;Q99549;Q5TB80;P01008;O60296;P06744;P27816;Q9NVI1;P84022;Q9H8T0;Q9UK41;Q96KN1;Q6P9F0;Q6ZVN8;P61586;O14641;Q9BQE4;Q12816;Q9UHD9;P63010;Q9UDY4;P08865;Q9NR22;Q9BYG5;Q9NRR3;Q7RTS9;O00422;O60711;Q15046;Q9Y2N7;P78395;Q9Y5V3;Q14696;Q8N6F7;Q8N7J2;Q99732;Q9BQI5;Q9NPNB6;P04406;Q12968;O43745;P29966;Q9Y6X8;Q9BT92;Q9UGK3;P11532;Q5JTC6;O95782;Q5B5F2;Q9Y3F4;P11142;P25963;Q8ND76;Q8N0Z2;O95810;O94921;O94850;O95999;Q9H4A6;Q5TCQ9;P04264;O43918;Q29RF7;Q16236;P35580;Q3SYG4;Q96RU7;Q96FF9;Q96IY1;Q5H9F3;Q9H307;Q9NSC5;Q8IX03;O95232;P67870;Q96ST8;Q9UKJ5;Q9HCI5;Q5EBL4;P37802;Q9H2G4;P62979;P0CG47;Q9BUL8;Q14232;Q717R9;P13647;P23508;Q7021;Q9H910;Q96QU8;P11169;Q68DX3;O43752;P80723;Q9UKT9;O14907;Q02410;P0CG48;P35579;P21980;Q92796;Q8N3V7;P63146;P23528;Q13033;Q00587;O43663;P18848;Q01844;O00161;O14512;Q13642;Q9UPT5;Q9NYJ8;Q96Q06;O60437;P14672;P16333;P06733;O75150;O94973;P63167;Q8NC51;Q9C0H9;Q8WV24;P20073;Q02952;Q5T1C6;Q9HB19;P78352;Q16186;Q9Y2H0;Q96EY1;O14910;O95429;P60510;Q86YD1;Q9UDY2;Q9BVN2;Q96M11;P43355;P22732;Q7Z2W4;Q9Y3P8;Q13620;Q9Y250;Q9H1J1;Q9BYG4}

3894 Pathogen[ P03410] interacts with 592 human partners: {Q6MZT1;O60711;Q9UDY4;P84022;Q00610;Q9BVN2;Q8IWW8;Q9P1A6;Q9BRT3;Q9Y6G9;O14786;Q8NC96;Q96M11;P09496;Q9NQ90;Q8NBR0;Q9UQC2;Q86Y91;Q96JB3;Q9HCH5;Q86UT5;Q9NS86;Q29RF7;Q7L804;Q9UBK5;O75781;Q717R9;Q96HD9;Q6NZI2;O95782;O71037;P17987;Q96CW1;Q9HBM0;P27986;Q969F2;O14910;Q8IWB1;P05121;Q86XT9;P22732;O75330;Q7RTS9;P49368;P0CG48;P15924;Q96B33;P61550;P61565;Q9UGK3;P51808;Q6NSX1;O15255;Q969W9;Q5HYK7;Q9UKH3;Q8N8D7;Q9Y3B8;Q8TCS8;Q96RT1;Q15833;P80303;Q5VZ72;Q96GC9;Q8NCG7;Q7Z614;P06744;Q5BIV9;Q86WV1;Q9UEY8;Q9Y239;Q9UPT5;Q8NFG4;Q5GH77;Q8N6Q3;Q9NX77;Q9NVI1;Q69384;Q15047;Q9UBF9;Q9UKA4;P53680;Q8NFJ9;Q8N7P3;Q96G30;Q8N3V7;P27816;Q6ZVT0;Q9BRV3;Q96JB2;O60610;O43597;Q8TAC9;Q8WZ55;Q5SSG8;Q9NQ60;O60896;Q96B86;P20963;Q6PIZ9;Q9BXM0;P63000;Q7Z699;Q9Y6I3;Q8N1N5;P11166;P49006;Q9NPD7;O60895;Q1HG43;Q15390;O60551;Q9NVZ3;P25705;P60510;Q12968;P04264;Q99549;P61567;Q13445;P54105;Q86UW1;Q902F9;Q9NS93;Q8IX03;Q0JZR9;O96019;Q8N292;Q3SYG4;P46020;P41220;Q495M9;Q13620;P16157;Q9UHD9;O95867;P15941;P18848;Q14242;Q05682;Q12959;Q9BUL8;Q9Y2N7;Q8IV36;Q96QU8;O94905;Q9BWX1;Q8N6F7;O60299;Q9HBL7;Q96LC9;Q43561;P02686;Q6P9F0;P11532;Q16222;Q9NZC7;Q8TAM2;Q8IXQ5;Q5TCQ9;Q9NRQ2;Q9BPZ7;Q9NRR3;Q96Q06;O43187;Q496H8;O94811;Q16236;Q9BTE3;Q14210;Q8TF46;Q9NZW5;P11168;O00501;Q8IWW1;Q8WV28;O60716;P06733;Q9Y2H0;Q9BSK0;P36405;Q9HAB3;Q8N307;Q8IVI9;O43918;O00401;O00159;Q68DU8;Q13515;Q9BYI3;Q99732;Q13145;Q07021}

;Q99445;Q9NS23;P43355;Q5H9F3;Q9H8T0;P09912;P11142;Q93050;P31749;P16452;Q99767;P35579;P04792;Q14232;O00213;P30419;Q8N6F1;P63167;Q8TB68;Q9Y287;Q9H6S1;Q9NUP9;P50570;P07900;Q00587;P31358;P16333;A6NDV4;Q8NI35;Q9NSC5;Q13835;Q9Y3F4;Q6UUU9;Q9NQ40;Q969X0;Q9HB21;O14490;Q8WVH0;Q14160;Q96KQ4;P05062;Q94850;Q9NRP85;Q6NZY7;Q8TD16;P62979;Q9BY14;Q9H4A6;O43159;Q9NVV4;Q969H4;O95817;Q96KN1;Q9NVN3;P56747;Q16617;Q9NR22;P33241;Q9H1J1;Q9BQE4;Q96T49;Q16585;P25490;Q02410;Q9H910;Q9NR9Y;Q13884;P06703;O60303;P23508;Q8TCG1;O95171;O00559;Q6PP77;Q9NZ42;Q9BWF2;Q9HAP6;Q15700;Q969K4;Q96134;Q9Y5K6;Q9BQJ4;Q6ZWB6;Q9HD26;P08865;P37802;Q96IF1;O95166;O15162;P11171;Q96NL6;P40123;Q96GD0;Q13336;Q99816;Q9UM54;Q15599;Q902F8;O95425;Q8IZH2;O43318;Q9UKT9;O75970;Q93100;Q92556;O95866;Q9Y3P8;Q9UDY2;Q96IY1;Q93052;Q8WV24;Q96MP8;P29474;Q9NRD5;Q99828;Q9BT92;Q9NRX5;O75150;P50552;Q14315;Q9GZY6;P4789;P17026;Q6UWI2;O95999;P61570;Q9UKS6;P49773;Q96FX8;C9JDP6;Q6ZVN8;P26038;O95996;Q92797;Q6ZUJ8;Q8TAG9;O43491;Q96CX2;Q5T1C6;P61586;Q15942;P78395;Q9BXL7;P25063;Q07157;O00170;Q9BTW9;Q16762;Q86UR1;Q9NYJ8;Q96D71;O95429;Q7Z2W4;Q9ULD2;Q9UKY0;O14613;Q5TZA2;Q96A65;Q5D1E8;Q8NFH5;Q9Y2J2;Q9BW04;P02511;Q9Y6N9;Q9NQX7;P46939;Q92796;Q99550;Q08722;Q13033;Q6PJW8;Q8N5C8;Q969G9;Q15049;O75204;P63146;O14907;Q9UI12;Q96LB4;Q6UWN0;Q96IZ0;Q8N3I7;Q9UKJ5;Q9NWF4;Q15849;Q9Y4E1;Q9H1K0;Q8IYJ3;P04156;O95876;Q9BVA1;Q96ST8;P53618;Q9Y6X8;Q7Z7J9;Q15046;Q9Y6G3;Q52LD8;Q14118;Q8N2G4;Q9Y4G6;Q13469;Q9NZ20;Q9NZU7;P87889;Q86WH2;O95810;P61566;O60296;Q13642;P48059;O00522;P04406;Q9BQI5;Q15438;Q5JTC6;P08670;Q86WJ1;Q14678;Q16625;O95232;O15105;P10636;Q5VZE5;P54826;Q96RU7;Q6IAA8;P63010;O42043;Q9Y6Y9;P60953;P40926;P35580;Q9NRI5;Q8IVK1;P28290;Q9Y5V3;Q14699;O95868;P20073;Q96JI7;P46108;P52630;P62987;Q96KPL;P56945;P53779;B4DS77;A6NLE4;Q8IXS6;Q9HCI5;Q9BZR6;Q5TB80;Q8WW43;P17677;Q92542;Q96B97;Q8TEW0;O95886;Q6X4W1;O43752;Q9NRP6;Q0VD83;Q8N8Q9;P80723;Q16186;Q99962;Q86WV6;Q9Y250;Q9NVD7;Q12816;Q92597;Q01082;O60291;Q9NV70;Q8N0Z2;P21980;Q9UPX8;Q8IWX6;A6NM45;O43687;Q86YD1;Q460N5;Q8N7J2;Q86UL8;Q7RTP0;Q6UXB3;Q00987;Q96FF9;P35241;Q02952;Q53GL0;O14512;Q9BZQ8;Q92629;Q8NI32;Q5VXU3;Q9HB19;O43745;O00422;Q8WU20;Q9C0H9;Q99871;P56750;Q01518;Q13326;P23528;Q9NP84;P27105;P55808;Q8IU99;P25963;Q13424;Q14696;Q9NY33;O00186;O95721;P67870;Q15149;O43493;P62166;P13647;Q13449;Q68DX3;P78352;P67775;Q9H490;Q9H2G4;O94772;Q5BJF2;P62993;Q14244;Q9BV57;Q969L2;Q9NZB2;Q9C086;Q9BSN7;Q14761;P40763;O75122;A6NDB9;Q5EBL4;Q7L5Y9;P42566;O95164;Q8WXH0;Q8NFM7;Q6UX82;P62879;Q9UI14;O00161;Q8ND76;Q92681;P27815;O94973;Q9BRK5;P35611;Q9NRR8;Q96EV8;Q9P278;Q96EY1;O75348;P11277;O60437;P29966;O95471;POCG47;Q9N2J8;Q9BX66;Q9UJM3;P24588;Q8IYI6;Q8TBZ0;Q8N8A4;Q8NC24;Q8N3R9;Q8N944;Q9BVA0;P61077;Q9Y4J8;O96015;Q96LD1;Q9BYG5;Q8NHG7;O43663;Q9H665;Q86UK5;Q9H307;Q13021;Q9H6Q3;O95049;Q99569;Q13415;O14641;Q96DB2;Q99689;P20396;Q16635}

3895 Pathogen[ P14075] interacts with 281 human partners: {P60953;Q5BIV9;P11169;Q9H307;Q9BQI5;Q92797;P52630;P06733;Q99871;Q3SYG4;Q9BQE4;P29474;Q96M11;O00213;P43355;Q52LD8;O95049;Q68DX3;P54105;Q02410;O94811;O95232;Q96JB2;P11532;Q9Y2J2;Q92681;P11142;Q9Y3F4;Q9NVI1;Q96FX8;P09496;Q86YD1;Q96KQ4;Q6P9F0;Q8IWW1;Q9BUL8;Q8N3V7;P49006;Q13884;P06744;O43663;O94973;Q07021;Q5VZE5;Q8NFG4;Q96CW1;O00186;Q9NR22;Q14160;P08865;Q16186;Q07157;P78395;O43752;P62879;O15162;Q9BXM0;Q9C086;Q9BV57;Q9BVN2;P80723;P51808;Q96KP1;Q12816;Q6X4W1;Q9NVV4;Q5H9F3;Q8IV36;P60510;O95886;Q93100;Q8NC51;O43918;O00422;Q01844;Q96IY1;Q15047;Q9Y2N7;P41220;P04156;Q9BYG4;Q13620;Q9HCH5;Q13515;Q6MZT1;Q5HYK7;Q7L5Y9;Q9Y250;P22732;Q9HD26;O60296;P04792;P40926;Q7Z614;Q9UK41;Q5TZA2;Q5TQC9;Q5T1C6;Q9UDY4;Q9NZB2;Q96ST8;P20073;Q96LC9;Q9BT92;Q96JI7;Q9H2G4;P25963;Q17RY6;P61077;Q13642;Q8N0Z2;Q96IZ0;Q9BYI3;Q9NRI5;Q96FF9;Q8WV24;Q8N5C8;Q15390;Q00587;P23528;Q8IVK1;P16333;Q9BTE3;Q86WV1;P07900;Q6NZI2;Q9BP27;Q8N1N5;O96019;O43493;P31749;Q9H910;O95810;P0CG48;P04406;Q02952;P62979;Q8N7J2;O00401;Q9H8T0;Q6ZVN8;O00170;Q96FJ2;Q9UGK3;O14641;Q8TBZ0;Q9UHD9;Q14232;P29966;Q8NHG7;Q9BZQ8;O14910;Q13469;O60299;Q9UJM3;P04264;Q7L804;P37802;Q7RTS9;P53618;Q9NSC5;P46939;Q86WH2;Q99732;P67870;Q14696;O95782;O43318;O75150;Q5TB80;Q6UUU9;Q9UKT9;P27986;Q9Y6X8;O14907;O15255;O43745;O14613;P62987;O14490;Q9Y3P8;Q9HB19;P35579;O60303;P18848;Q99549;Q92796;P61586;Q5D1E8;O15105;O95999;P02511;Q5JTC6;Q9NRR3;P67775;P08670;P63000;Q7Z2W4;Q96RU7;O00161;P63010;Q5EBL4;Q8TCS8;Q96Q06;Q96QU8;P23508;Q29RF7;O43159;Q9P1A6;Q96EV8;POCG47;P49789;Q9UDY2;Q717R9;P78352;P13647;Q96KN1;Q8TAC9;Q8ND76;Q9HBM0;O60711;Q9BYG5;P11168;Q8IYI6;Q14678;Q9Y2H0;Q92597;P63146;Q9NRP6;A6NDB9;P84022;P21980;Q99816;O60437;Q96H8;Q16236;O14512;Q9C0H9;O75330;Q9Y287;O60716;P28290;Q15046;O94921;Q9Y5V3;P14672;Q9UKJ5;Q13033;Q9NRR8;Q9H4A6;P27816;Q6UWI2;P54826;Q9P278;P63167;Q96CN9;Q12968;O94850;Q9Y4E1;Q8NFH5;Q96EY1;Q00610;P11171;Q8N6F7;Q8N944;Q9HCI5;O95429;P56945;Q9Y6G3;Q14244;Q9BSK0;P55808;Q8IX03;Q5BJF2;Q8IWW8;P25063;Q9UPT5;P15924;Q99689;Q9H1J1;Q9NYJ8}

3896 Pathogen[ P0C206] interacts with 465 human partners: {P05BJF2;Q9NQC7;P06733;P84022;Q92597;Q6ZVT0;P53680;Q9BZQ8;P63010;O60716;P46939;Q9NUP9;Q86WH2;Q8IXQ5;POCG48;Q96NL6;Q6MZT1;Q01082;O60291;Q9BTE3;P05062;Q69384;Q9Y3F4;Q9HB19;O43159;Q9UM54;P78352;Q9BVA0;Q9H4A6;Q96FT1;Q9UDY4;O94973;P17026;Q92556;Q99828;Q9NQ90;P31749;Q8N6T3;P17677;Q13469;P01008;Q8NFH5;Q93100;Q96IZ0;Q16222;Q96ST8;Q7RTS9;Q8IZH2;Q8TCS8;Q9NZ42;Q9H6Q3;P62879;Q969F2;Q16186;Q15019;Q9Y2N7;Q8N3V7;Q9BT92;Q13642;P04156;Q8NC96;Q9HAU4;Q9UDY8;P53618;Q9Y287;Q3SYG4;P62166;Q92681;Q8TAM2;Q15700;O95810;Q5EBL4;P25490;Q07021;O95164;Q96FX8;P78395;O95721;Q8N944;Q8N5C8;Q96KN1;P30419;O95049;Q9Y6N9;P54105;Q5VXU3;Q9NRR8;Q9NVD7;Q14315;A6NDB9;Q5TZA2;Q96IF1;P08865;Q13515;P14317;Q96CX2;Q8NHG7;O43752;Q96B97;Q96DB2;O95232;Q9H8T0;Q9BTW9;Q14232;O43493;P63167;O94811;Q96JI7;Q9H1K0;Q5TQC9;Q9NRR3;O95999;Q8IWW1;P21980;P04264;O14613;Q14678;P25963;Q95630;Q8TBZ0;Q9Y5V3;O95867;Q460N5;Q96J02;P80303;Q96QU8;Q9H307;Q9P278;Q29RF7;Q96KP1;O94850;Q9BYG5;O43318;P49755;Q6UW56;O95886;Q00610;Q9UDY2;Q96JB2;Q99550;P43355;Q01844;Q99962;P04792;Q6ZN30;Q9UKJ5;Q13021;Q99816;Q12968;Q14699;Q86WV6;Q92542;P17987;O60299;Q8N3I7;Q9Y4E1;P67775;Q96KQ4;P11166;Q9NZU7;Q9Y6G3;O95996;P10636;Q96A65;Q96LC9;Q9Y6X8;P27986;Q13620;Q9UI14;O00422;P62993;Q96RU7;P09496;Q8N6F7;Q9NVI1;Q9UK41;O14786;A6NDV4;P61586;Q14244;Q9C086;Q86UT5;Q9BW04;O14907;Q96FF9;O00161;O43918;Q99689;P46020;O75122;O60437;Q86Y91;Q96JB3;Q8N3R9;O00213;O15105;Q92797;Q8TEW0;Q9Y2H0;P11168;Q99767;Q15599;Q9Y4J8;Q9UGK3;O96019;

Q6UUV9;Q13884;Q9BUZ4;Q8IYJ3;P16157;P27816;Q1HG43;P27815;P06744;Q96T49;P49917;O14490;Q8IV36;Q717R9;Q6PJW8;Q9Y3P8;Q9BQE4;P25063;P13647;Q7L5Y9;Q5HYK7;Q96M11;P22681;P63000;Q9NSC5;Q13835;Q8WU20;O95429;P80723;O75330;P07900;P51808;Q9UPT5;P55196;O00159;Q96EV8;Q9UKH3;Q8N7J2;Q99445;Q5H9F3;P48059;Q17RY6;Q14160;P28290;Q99569;P49789;Q6NZI2;Q96IY1;Q495M9;Q9UI12;Q49006;Q86WV1;Q9Y3B8;Q96CW1;Q15942;Q9Y6G9;Q5D1E8;Q9NY33;O60296;O43491;Q6ZVN8;P61570;P94905;Q12816;Q9NRI5;O95278;P62979;P16452;Q5T1C6;P67870;Q8NI35;O43663;P04406;Q9UPX8;Q5VZE5;P40926;Q9ULD2;Q6P9F0;Q9BUL8;Q9NPB6;P35579;Q9BPZ7;O00401;Q9NYJ8;Q9Y6I3;Q9H665;P42574;Q9BXM0;Q9BV57;Q9BQI5;Q6X4W1;Q9NVV4;P61565;P37802;Q9H2G4;O14910;P40763;O43597;Q9NQX7;Q8N1N5;Q9UKY0;P60953;Q8IYW8;Q7Z614;Q8IVK1;Q9NR22;Q9C0H9;Q9HB21;O95782;Q8NFG4;P0CG47;O60551;P16333;P36405;Q96MP8;Q8IYI6;P29474;Q9BX66;Q9UJM3;P15924;O15162;P06703;P42566;Q9NPD7;Q9Y5K6;Q07157;Q02952;Q8NFI9;Q86WJ1;P49368;Q8WXH0;Q9NZC7;Q86YD1;Q99871;P05121;O95817;Q16236;Q13415;P14672;Q96CN9;P11277;Q96GD0;Q9UKT9;Q9BWF2;P56945;Q9H910;O15255;Q15849;Q8ND76;Q96B86;Q6UWI2;O60303;Q16181;P61077;Q15047;Q14696;P46108;Q92796;Q7L804;O00170;P08670;P60510;P11532;Q9NV70;P62987;Q86UL8;Q13033;Q16762;Q9BSK0;Q00987;P02511;Q9NS86;Q9HCH5;P41220;Q7Z2W4;O14512;Q15390;Q9NS23;P20396;Q8TAC9;Q13424;P54826;P87889;O60711;Q96Q06;Q9HBM0;Q969H4;Q99549;Q96EY1;P35580;P23528;Q15833;Q9UQC2;Q9NRD5;Q68DX3;Q8N0Z2;Q8TF46;P20073;O95876;Q86YT6;Q8TD16;Q9HCI5;O43745;Q5BIV9;P18848;P11142;Q12959;Q99732;Q8NC51;Q9NP85;Q9NVN3;Q9HD26;O75150;Q5TB80;Q9BYI3;Q9H4E7;Q9Y250;Q93052;O96015;Q9UHD9;O95868;Q9H6S1;Q7Z699;Q8IVT9;O94921;Q9NZB2;Q96FQ6;O95166;P52630;Q6Q0C0;O95171;Q9Y2J2;Q9BYG4;Q9BQJ4;P50570;Q8TAG9;P29966;Q9BRT3;Q8IX03;Q969L2;O00522;Q9P1A6;Q9BWX1;Q9UKS6;P14618;Q969G9;Q9UKA4;Q93050;P11171;Q902F8;O00186;Q5JTC6;P23508;P63146;Q15046;Q8WV24;Q9BVN2;Q9H1J1;Q00587;Q02410}

3897 Pathogen[ P03363] interacts with 331 human partners: {Q8NF67;Q16236;P22681;Q9Y6N9;P62879;Q9Y3P8;Q9BUL8;Q12959;P52630;Q9UGK3;Q9NVI1;P18848;Q16186;P29474;Q8N3V7;Q9Y3F4;O43493;Q9NVV4;P46939;O14907;O95049;Q96IY1;Q96RT1;Q9BWF2;Q5JTC6;P08865;Q13835;Q14244;Q99962;Q9BXM0;Q86YD1;P11277;P07900;P63167;Q7L804;P06744;Q15438;Q16222;O95996;Q7RTS9;Q8TAM2;Q8NC51;Q8IVI9;Q9BX66;Q86UR1;Q9HAU4;O60291;P16157;P35579;O14786;O94811;Q96IZ0;Q96T49;Q9BZQ8;Q9BTE3;Q8TBZ0;Q02952;Q86WV1;Q96LC9;O95232;P25963;O60437;O00213;Q8IYI6;Q9UPX8;Q96B97;P37802;O60303;Q8WV24;Q13283;Q96A65;Q9N2W5;O14910;Q9UBF9;Q6UW56;Q01082;Q9NYJ8;P06733;Q7Z2W4;Q14160;P78352;Q92597;P25490;Q99550;Q9Y6X8;P05075;Q8ND76;Q969G9;Q8WV28;Q9H6Q3;Q9W307;Q13033;Q9NPB6;Q5EBL4;Q96RU3;Q00610;Q00587;Q96JI7;P78395;O43318;Q15700;O15105;P04156;P63146;Q99828;Q96KQ4;Q9H4A6;P53618;Q99569;O75970;P23508;Q8N1N5;Q9BYG4;P63000;Q07157;P27815;P20073;Q93052;Q9Y4G6;O94973;Q92797;O75150;Q8N0Z2;Q96IF1;O95817;P15924;O60296;O94850;Q9C086;Q07021;P54105;Q5TZA2;Q969L2;Q9Y4E1;Q96QU8;Q99549;Q9NSC5;Q969H4;P27816;Q8IV36;Q717R9;Q7Z699;Q8IXQ5;O96019;P13647;P135YG4;Q13415;Q15149;Q9Y250;Q9NZI8;Q9NR22;O95721;Q9H2G4;P31749;Q9Y6G3;Q96KP1;P16333;P11532;O00522;Q02410;Q5TCQ9;P28290;Q99732;P08670;Q9UK41;Q8N3R9;Q8NFG4;Q9BTW9;Q9Y2N7;P11171;P63010;Q96ST8;P84022;P17987;P04406;Q9NZU7;Q13620;O14613;Q9BT92;Q92556;Q96I34;Q86UT5;Q8TCG1;Q6ZVN8;O95171;P49789;P62987;P23528;P46108;Q9H8T0;Q9BV57;Q6UUV9;Q6NZI2;P60510;Q9UDY2;Q13884;Q99871;Q9HB19;O00186;P41220;Q495M9;P29966;Q9BYG5;P51808;O00422;Q29RF7;Q7Z614;Q9NS23;P14317;Q13469;O95782;Q9UKS6;Q01844;O43491;Q12923;Q8NI35;Q92681;Q9BVN2;P56945;Q460N5;Q12968;Q9Y5V3;Q6P9F0;Q86WH2;O00401;Q15599;Q9NRI5;O43159;Q5BJF2;Q9HCI5;P14672;Q9UKJ5;Q86UL8;Q5D1E8;Q9UKT9;Q9NRR3;Q13642;O75386;P80723;O95886;Q99816;P67870;Q9C004;O43745;P61077;Q8IYW8;O43918;Q9P1A6;Q9UJM3;O14490;Q9P278;Q96FF9;Q9H910;O60662;Q9HCH5;Q96KN1;P16452;Q92796;O14512;Q9NVV7;Q5HYK7;Q9H0M0;O00192;O00161;Q96M11;O43663;Q8IX03;Q8N5C8;Q9BUZ4;Q8NFI9;Q9NUP9;O95429;Q9BQI5;Q8TF46;P43355;Q86WJ1;Q99719;O60299;P04264;Q96EY1;P49006;O95810;O14641;O43752;Q9ULD2;Q8TD16;Q8NFI5;P60953;O60716;O00170;Q15047;Q5TB80;P27986;O95166;P67775;Q96FJ2;Q14678;Q6MZT1;Q9Y5K6;P04792;Q99767;A6NDB9;Q9HD26;Q9Y2J2;Q5VZE5;P11166;Q14315;Q8IZH2;Q9BSK0;Q15942;O60711;Q96MP8;Q5H9F3;P11142;Q96CN9;Q13515;Q9UPT5;Q13424;Q9UHD9;P49368;Q68DX3;Q96CW1;Q15833;Q8N7J2;Q99689;Q9C0H9;Q9H1J1;Q9UQC2;Q12816;Q96JB2}

3898 [Cluster 355]GO:0005746+C cellular\_component [name] mitochondrial respiratory chain [def] "The protein complexes that form the mitochondrial electron transport system (the respiratory chain), associated with the inner mitochondrial membrane. The respiratory chain complexes transfer electrons from an electron donor to an electron acceptor and are associated with a proton pump to create a transmembrane electrochemical gradient." [GOC  
 3899 Pathogen[ Q2Q067] interacts with 1 human partners: {Q9P0J0}  
 3900 Pathogen[ P0C214] interacts with 1 human partners: {Q9P0J0}  
 3901 Pathogen[ P03346] interacts with 1 human partners: {Q9P0J0}  
 3902 Pathogen[ Q85601] interacts with 1 human partners: {Q9P0J0}  
 3903 Pathogen[ P14079] interacts with 10 human partners: {O60397;Q15070;P14927;Q15526;P07919;Q14548;Q9P0J0;P24310;Q8TF08;P14406}  
 3904 Pathogen[ P03383] interacts with 1 human partners: {Q9P0J0}  
 3905 Pathogen[ P03410] interacts with 9 human partners: {Q8TF08;O14548;P07919;O60397;P14927;P24310;Q15070;Q9P0J0;P14406}  
 3906 Pathogen[ P14075] interacts with 3 human partners: {Q15070;P14406;Q9P0J0}  
 3907 Pathogen[ P0C206] interacts with 3 human partners: {P14406;Q15070;Q9P0J0}  
 3908 Pathogen[ P03363] interacts with 1 human partners: {Q9P0J0}

3909 [Cluster 356]GO:0030891+C cellular\_component [name] VCB complex [def] "A protein complex that possesses ubiquitin ligase activity\_ the complex is usually pentameric\_ for example, in mammals the subunits are pVHL, elongin B, elongin C, cullin-2 (Cul2), and Rbx1." [GOC  
 3910 Pathogen[ Q2Q067] interacts with 2 human partners: {Q6RSH7;P62877}  
 3911 Pathogen[ P0C214] interacts with 2 human partners: {P62877;Q6RSH7}  
 3912 Pathogen[ P03346] interacts with 2 human partners: {Q6RSH7;P62877}  
 3913 Pathogen[ Q85601] interacts with 2 human partners: {P62877;Q6RSH7}



3914 Pathogen[ P14079] interacts with 3 human partners: {P62877;Q6RSH7;Q9BR09}

3915 Pathogen[ P03383] interacts with 2 human partners: {Q6RSH7;P62877}

3916 Pathogen[ P03410] interacts with 3 human partners: {Q9BR09;P62877;Q6RSH7}

3917 Pathogen[ P14075] interacts with 2 human partners: {Q6RSH7;P62877}

3918 Pathogen[ P0C206] interacts with 3 human partners: {P62877;Q6RSH7;Q9BR09}

3919 Pathogen[ P03363] interacts with 3 human partners: {Q9BR09;Q6RSH7;P62877}

3920 [Cluster 357]GO:0030496+C cellular\_component [name] midbody [def] "A thin cytoplasmic bridge formed between daughter cells at the end of cytokinesis. The midbody forms where the contractile ring constricts, and may persist for some time before finally breaking to complete cytokinesis." [ISBN

3921 Pathogen[ Q2Q067] interacts with 38 human partners: {P49454;P50995;Q9Y2Y0;Q9Y3S2;Q9NS56;Q9H1H9;O75935;A8MVW5;Q6NXT1;P11166;Q68DK2;Q9NQS7;Q99569;Q6PGN9;O76095;P36873;Q9Y5B0;Q9C0F1;Q9UN37;P50570;Q02241;Q53EZ4;O76064;Q9Y3E7;Q14145;Q9UPY8;Q13526;Q9NR09;Q8IZT6;Q6DKK2;P60953;O75154;P61586;Q8TAP9;O15392;Q9BRK4;P14625;O60716}

3922 Pathogen[ P0C214] interacts with 37 human partners: {Q8TAP9;O75935;P14625;Q02241;Q9BRK4;O60716;Q6DKK2;Q9NS56;Q14145;P31150;Q13526;A8MVW5;P61586;P60953;P11166;Q9C0F1;Q6PGN9;P35580;Q53EZ4;Q6NXT1;Q9Y3E7;O15392;Q9UPY8;P36873;Q9Y2Y0;Q9Y5B0;Q9NQS7;Q9NR09;Q96GD0;Q68DK2;P50570;Q9UN37;P49454;Q8IZT6;O76064;P50995;O75154}

3923 Pathogen[ P03346] interacts with 48 human partners: {P50570;O76064;O15392;Q99569;O60716;P14625;O75935;A8MVW5;Q14141;Q9H1H9;P60953;Q9Y3S2;Q13526;Q9C0F1;Q9BRK4;Q9Y5B0;Q9NS56;Q9Y3E7;P31150;Q15019;P36873;Q53EZ4;Q9NQS7;Q6PGN9;P11166;P50995;Q68DK2;Q02241;Q8TAP9;P36405;Q9NR09;Q9P2J3;Q8IZT6;Q86YS3;Q9Y2Y0;Q9H8V3;Q14145;O75154;O76095;Q9UPY8;Q6NXT1;P84090;O14965;Q6DKK2;P49454;Q9UN37;Q9UBP0;P61586}

3924 Pathogen[ Q85601] interacts with 47 human partners: {Q53EZ4;Q99569;P49454;Q6PGN9;Q9NS56;O75154;Q02241;P36405;P31150;Q9NQS7;Q9UBP0;P50995;Q86YS3;O75935;A8MVW5;Q9Y2Y0;Q9H1H9;Q6NXT1;O15392;Q8IZT6;Q14145;Q8TAP9;O60716;O14965;O76064;P11166;Q13526;Q9Y5B0;Q9NQC7;P36873;Q9C0F1;Q9BRK4;Q6DKK2;P50570;Q9BVA0;P61586;Q68DK2;Q9P2J3;O76095;P60953;P14625;Q9NR09;P35580;Q9UPY8;Q9UN37;Q9Y3E7;P51955}

3925 Pathogen[ P14079] interacts with 47 human partners: {Q9UPY8;Q68DK2;P31150;Q9Y5B0;P50995;P36873;O76095;Q02241;Q9Y2Y0;O15392;Q86YS3;A8MVW5;P11166;Q96GD0;P50570;Q9NR09;P36405;Q6NXT1;P51955;Q14145;Q99569;Q9H1H9;P61586;Q9H8V3;Q9NS56;P84090;Q9C0F1;Q6DKK2;Q9UN37;Q6PGN9;P14625;Q8TAP9;Q9NQS7;Q9Y3E7;Q96FC9;P49454;O75154;Q13526;Q9BVA0;O14965;Q9BRK4;O75935;Q9NQC7;O60716;Q9Y3S2;Q8IZT6;Q53EZ4}

3926 Pathogen[ P03383] interacts with 32 human partners: {Q9BRK4;Q9Y2Y0;Q9NQS7;O60716;P49454;P50995;Q68DK2;Q02241;Q9Y3E7;P60953;A8MVW5;Q9C0F1;Q9H1H9;P36873;Q6PGN9;P61586;Q6DKK2;P14625;O75935;P35580;O14965;Q14145;Q9NR09;Q9Y5B0;O76095;P84090;Q9UN37;Q53EZ4;Q9UPY8;O75154;Q13526;Q8TAP9}

3927 Pathogen[ P03410] interacts with 46 human partners: {O15392;O75154;P50995;P11166;Q9H1H9;Q6NXT1;Q13526;P14625;O60716;P36405;P84090;P50570;Q6DKK2;Q8TAP9;Q8IZT6;P49454;O14965;Q96GD0;Q9P2J3;Q9NR09;Q86YS3;Q9Y3E7;P61586;Q9Y3S2;Q9UN37;P36873;A8MVW5;O75935;Q9UPY8;Q53EZ4;Q9Y5B0;P60953;P35580;Q96FC9;O76095;Q9H8V3;Q6PGN9;P31150;Q9C0F1;Q9Y2Y0;Q14145;Q68DK2;Q9BVA0;Q02241;Q99569;Q9NQS7}

3928 Pathogen[ P14075] interacts with 32 human partners: {P60953;Q9H1H9;Q02241;O76095;Q9NQS7;Q9Y5B0;A8MVW5;Q9Y2Y0;P36873;Q9Y3E7;P50995;Q68DK2;Q9UPY8;Q9C0F1;O75935;Q13526;O14965;Q9Y3S2;P61586;Q53EZ4;Q9BRK4;Q6PGN9;Q9NR09;O75154;Q8TAP9;O60716;P14625;P49454;P84090;Q14145;Q6DKK2;Q9UN37}

3929 Pathogen[ P0C206] interacts with 52 human partners: {Q9NQC7;Q9Y3S2;Q6NXT1;O60716;Q68DK2;Q9NS56;Q9UN37;Q9BVA0;Q9UBP0;Q13526;Q15019;Q9Y3E7;P51955;O75154;P50995;Q8IZT6;Q6PGN9;P49454;Q9H1H9;P11166;Q14141;Q02241;Q14145;P61586;Q6DKK2;A8MVW5;Q9Y5B0;Q9UPY8;Q9NR09;Q99569;Q9P2J3;Q9H8V3;O15392;P60953;P31150;P36405;Q96GD0;Q8TAP9;Q16181;P84090;Q9Y2Y0;O14965;Q9C0F1;Q9NQS7;O75935;P36873;O76064;P35580;Q86YS3;P50570;O76095;P14625}

3930 Pathogen[ P03363] interacts with 36 human partners: {P49454;Q9Y5B0;Q14145;P36873;Q9BRK4;P31150;Q6NXT1;P50570;Q02241;Q13526;Q68DK2;Q99569;P50995;Q6PGN9;A8MVW5;Q9UPY8;Q9UN37;Q8IYM1;Q53EZ4;Q6DKK2;Q9NR09;Q9NQS7;O75935;Q9Y3E7;O76095;O75154;Q9P2J3;Q9C0F1;Q9Y2Y0;Q9H1H9;Q14141;P60953;O60716;Q8IZT6;P11166;Q8TAP9}

3931 [Cluster 358]GO:0031265+C cellular\_component [name] CD95 death-inducing signaling complex [def] "A protein complex formed upon binding of Fas/CD95/APO-1 to its ligand. The complex includes FADD/Mort1, procaspase-8/10 and c-FLIP in addition to the ligand-bound receptor." [PMID

3932 Pathogen[ Q2Q067] interacts with 3 human partners: {Q13158;Q14790;Q9UNN5}

3933 Pathogen[ P0C214] interacts with 3 human partners: {Q13158;Q9UNN5;Q14790}

3934 Pathogen[ P03346] interacts with 3 human partners: {Q13158;Q9UNN5;Q14790}

3935 Pathogen[ Q85601] interacts with 3 human partners: {Q13158;Q14790;Q9UNN5}

3936 Pathogen[ P14079] interacts with 3 human partners: {Q14790;Q9UNN5;Q13158}

3937 Pathogen[ P03383] interacts with 2 human partners: {Q13158;Q9UNN5}

3938 Pathogen[ P03410] interacts with 2 human partners: {Q9UNN5;Q13158}

3939 Pathogen[ P14075] interacts with 2 human partners: {Q9UNN5;Q13158}

3940 Pathogen[ P0C206] interacts with 3 human partners: {Q9UNN5;Q13158;Q14790}

3941 Pathogen[ P03363] interacts with 2 human partners: {Q9UNN5;Q13158}

3942 [Cluster 359]GO:0005697+C cellular\_component [name] telomerase holoenzyme complex [def] "Telomerase is a ribonucleoprotein enzyme complex, with a minimal catalytic core



composed of a catalytic reverse transcriptase subunit and an RNA subunit that provides the template for telomeric DNA addition. In vivo, the holoenzyme complex often contains additional subunits." [PMID

3943 Pathogen[ Q2Q067] interacts with 5 human partners:{Q86US8;O60832;O14746;Q15185;Q9BUR4}

3944 Pathogen[ P0C214] interacts with 5 human partners:{O14746;Q9BUR4;Q86US8;O60832;Q15185}

3945 Pathogen[ P03346] interacts with 5 human partners:{Q86US8;Q15185;O60832;Q9BUR4;O14746}

3946 Pathogen[ Q85601] interacts with 5 human partners:{Q9BUR4;Q15185;Q86US8;O14746;O60832}

3947 Pathogen[ P14079] interacts with 5 human partners:{O14746;O60832;Q86US8;Q9BUR4;Q15185}

3948 Pathogen[ P03383] interacts with 5 human partners:{Q9BUR4;Q86US8;O14746;Q15185;O60832}

3949 Pathogen[ P03410] interacts with 5 human partners:{O14746;O60832;Q15185;Q86US8;Q9BUR4}

3950 Pathogen[ P14075] interacts with 5 human partners:{O14746;Q15185;Q86US8;Q9BUR4;O60832}

3951 Pathogen[ P0C206] interacts with 5 human partners:{Q15185;Q86US8;O60832;Q9BUR4;O14746}

3952 Pathogen[ P03363] interacts with 5 human partners:{O60832;Q9BUR4;Q86US8;O14746;Q15185}

3953 [Cluster 360]GO:0071942+C cellular\_component [name] XPC complex [def] "A nucleotide-excision repair complex that is involved in damage sensing during global genome nucleotide excision repair (GG-NER). It is part of the pre-incision (or initial recognition) complex bound to sites of DNA damage. In human, it is composed of XPC, RAD23B and CETN2." [PMID

3954 Pathogen[ Q2Q067] interacts with 3 human partners:{P54727;P41208;Q01831}

3955 Pathogen[ P0C214] interacts with 3 human partners:{P54727;P41208;Q01831}

3956 Pathogen[ P03346] interacts with 3 human partners:{P41208;Q01831;P54727}

3957 Pathogen[ Q85601] interacts with 3 human partners:{Q01831;P54727;P41208}

3958 Pathogen[ P14079] interacts with 3 human partners:{P41208;Q01831;P54727}

3959 Pathogen[ P03383] interacts with 3 human partners:{P41208;Q01831;P54727}

3960 Pathogen[ P03410] interacts with 3 human partners:{Q01831;P41208;P54727}

3961 Pathogen[ P14075] interacts with 3 human partners:{Q01831;P54727;P41208}

3962 Pathogen[ P0C206] interacts with 3 human partners:{Q01831;P54727;P41208}

3963 Pathogen[ P03363] interacts with 3 human partners:{P54727;Q01831;P41208}

3964 [Cluster 361]GO:0030529+C cellular\_component [name] ribonucleoprotein complex [def] "A macromolecular complex containing both protein and RNA molecules." [GOC

3965 Pathogen[ Q2Q067] interacts with 273 human partners:{Q5JNZ5;Q8N5N7;P51398;Q9HD33;Q9H583;P61313;P83369;Q12905;P62701;Q8NHW5;P82921;Q9BYD6;Q86U42;O15234;Q13084;C9JE40;P49458;Q9BZE1;P47914;P82933;P07910;P62312;Q9Y333;P46779;Q96EL2;Q9BYD1;Q4U2R6;P55769;Q9UQ80;P22087;P82912;Q59GN2;P82932;Q9Y3B7;P52272;Q02543;P14866;P26373;Q9Y676;O75394;Q96A35;P62750;P62273;P67809;P55795;Q9Y2R9;P62318;Q13405;Q96GC5;Q9HCK5;Q6NVV1;P19474;Q8WWY3;P82930;P15880;P40429;Q9BYN8;P09132;Q9NWU5;Q9UHX1;P46782;Q9BRJ2;Q9NV31;P10155;P35268;O43390;Q92552;Q9HD15;Q15696;P22090;P46778;Q9UK45;P82663;Q14103;O60506;Q9BYC8;O00566;P62888;Q9Y3D9;P32969;P62277;Q13601;P57723;P06748;P62241;Q96G21;Q9P0M9;P62244;P05387;Q5T653;Q9NVS2;P62861;P08107;P42766;A6NHQ2;Q96HR8;P05386;Q9Y291;P11308;Q9P0J6;P38935;Q9NPE3;Q96N16;Q6P1L8;Q969Q0;O95793;P62269;P08579;Q9NP92;Q9Y6G3;P52597;Q6P161;O14746;P14678;P62424;P62917;P62829;O15116;P46783;Q9BRS8;Q9BYD3;P09661;P36578;Q9UKV8;P62857;Q15366;Q8WVV9;P19338;P37198;Q9BYD2;O95777;Q92499;Q9Y3D5;P62847;Q14764;P09012;P49207;P23396;Q09161;Q9H0U6;Q9BUJ2;P63173;Q12789;P18621;Q9NY12;P82675;Q9H9J2;P16989;Q9NRX2;P62316;Q86TS9;Q99700;Q96PK6;Q8TCC3;Q9UKF6;P39019;Q14493;P82664;Q9UL18;P61353;Q96L21;Q9UKK3;P62266;P42677;Q9Y3U8;Q9H0G5;P62306;P63220;P62841;P83881;P62987;P49406;Q9P015;P22626;P50914;P46776;Q9H7H0;Q96DV4;P11940;P82909;P63162;P62854;P62308;P09001;P62753;P05388;Q8N983;P18124;P62851;Q00839;P25398;A6NKH3;Q96QE5;Q9Y4Z0;Q9NQ50;P62910;Q92901;P46781;P82673;P09234;Q9BYC9;P62310;P27635;Q92665;Q969L4;P61513;O95478;Q13064;Q9Y4Y9;P62945;Q71UM5;Q9NX20;P62979}

3966 Pathogen[ P0C214] interacts with 281 human partners:{Q9HD33;P62861;Q13310;P84098;Q96A35;P61247;P49406;Q9Y399;P62312;Q8N5N7;Q8NHW5;P82930;O15234;O15116;Q13405;Q9Y3D5;P60709;P62316;Q9BYD2;Q96QE5;P11308;Q96EL2;Q9BYD1;P83369;Q9H9J2;Q09161;P15880;Q8ND56;P62081;P42766;Q9NV31;P19474;P62913;P22090;Q13469;P16989;Q9NPE3;O14746;P82912;Q92901;P62249;Q9Y3D9;O95478;P62899;Q96DV4;P38159;Q9UKF6;C9JE40;P62854;P39019;P62263;P82675;P57721;P0C6E6;Q9H0U6;Q9NYK5;Q16540;Q6P161;Q9Y676;Q86TS9;P62273;Q9NP92;P06748;P23396;P18077;Q9HD15;O15235;P05388;P62847;Q9BYD3;Q96GC5;Q9NX20;P14678;Q14764;P62829;P26373;P62306;Q969L4;Q9H7H0;A6NHQ2;P27635;P46778;P67809;Q6P5R6;Q4U2R6;Q5JNZ5;Q6P2Q9;Q9NWU5;Q12906;Q8IXM3;Q96EH5;P61513;Q7Z2W9;P83881;Q96G21;O75394;P22087;Q5T653;P62701;Q71UM5;P49207;P11940;Q12905;P63220;P08865;Q9Y2Q9;Q9NIX8;P32969;Q02543;P62266;P38935;P09001;Q9NY12;P62308;Q9Y4Z0;Q9UK45;Q969Q0;P08579;O43390;Q15366;P82664;Q13064;P82914;Q12789;Q99700;Q16630;P62277;Q9Y4Y9;Q8N983;P50914;Q92665;P46779;P

55795;Q9Y333;Q59GN2;P52272;P40429;Q9P0J6;P62314;P07910;Q14493;P47914;Q8TCC3;Q9UHX1;Q9Y2T7;Q15696;P63173;P13639;O14980;P37198;P08621;Q13084;P46783;P51398;Q14103;P62310;Q9BQ48;P82663;P55769;P82921;P62280;Q14137;Q9UNX3;Q9BRS8;Q9Y3U8;Q9BYN8;Q6P1L8;P30050;Q9BX40;P62753;P62910;P62891;Q8TD47;P52597;P82909;Q9NZE8;Q9H9G7;Q9Y6G3;P62269;P63162;Q9BUJ2;Q9H0G5;P62318;Q9NQ50;P46781;Q9Y291;Q96PK6;Q9Y2R9;A6NKH3;Q9BYC9;P61254;O95777;Q9UKV8;P62841;P62244;Q9NP64;Q9NRX2;P62987;Q7Z7F7;O60832;P31943;Q9Y2R5;Q92499;P62304;Q97020;P42677;P62945;Q6NVV1;P09012;O95793;Q9P0M9;P46776;Q9BQC6;O60506;P52815;P62241;P46777;P82932;Q9UHK3;P83731;P09661;Q96L21;P35268;Q9HCK5;Q9UHB9;P62424;Q08211;P60866;Q9H2W6;Q9BYC8;P62857;Q00839;P49458;P09234;P61313;P08708;Q9P015;O00566;Q13601;Q9UQ80;P05387;P25398;P22626;Q9BZE1;Q9Y3B7;P61927;P62750;P62979;P82673;P05386;P09132;P08107;P62851;Q86U42;P19338;Q15365;P46782;P82933;P18124;Q8WVV9;P82650;Q9UL18;P10155;P61353;Q9H583;Q9BYD6;P14866;P36578;Q9NV06;Q9BRJ2;Q92552;Q9Y3D3;P18621;O60783;Q8WVY3;P62906;Q96HR8;P11142;Q02878;Q9NVS2;Q96N16}

3967 Pathogen[ P03346] interacts with 299 human partners: {P08107;Q9NQ39;Q96A35;Q9NVS2;P05387;Q9Y399;P51991;Q8NHW5;P46779;P82930;Q86U42;O15234;P61978;Q8ND56;Q96EL2;P38935;Q9BYD1;Q09161;P63173;Q5JNZ5;P62917;O75394;Q9NP64;P62249;P62913;Q15366;P49406;Q9P0J6;Q8N983;P62861;P82912;P62277;Q02878;Q12905;P82933;P09651;Q96EL3;Q6P161;P06748;Q96N16;Q59GN2;P14866;Q14764;P62280;P39023;Q8NHW6;P62304;Q9UKF6;O95777;Q9UQ80;P62987;P61927;Q9UNX3;P62857;Q9H0U6;Q8TCC3;Q9BX40;A6NHQ2;Q9Y4Y9;Q8IXM3;P08579;Q9H9G7;P55795;Q4G0J3;Q9UL18;P46778;Q8WVV9;P49207;Q9HD15;Q6P5R6;O60506;P62266;Q9NZI8;Q9UKK3;Q9BYC8;P60709;P61254;Q9BQC6;Q07910;Q71UM5;Q12906;P11142;Q9H583;A8MW D9;P08621;Q5T653;Q96G21;P11940;P31943;Q00839;O60832;Q9H2W6;Q92552;P62424;P16989;P62273;P19338;Q9BYD2;Q9BUJ2;P83731;P60866;P49458;Q08211;P0CW22;P37198;P62899;Q969Q0;O43390;P82909;O43818;Q9BYC9;P22626;Q6NVV1;Q9Y333;P35268;P09132;O00566;O95793;P09001;P62891;P08708;Q8TD47;Q14103;P46782;P61353;P51398;Q92879;Q9H0G5;P62854;Q9NV06;Q14493;Q9Y3D9;Q9Y3U8;P82650;Q9HCK5;P62318;Q92499;Q99700;P47914;P10155;P11308;O14980;Q9Y2R5;P08865;Q96L21;Q9NX24;P63162;Q6DKI1;Q9NRX2;Q7Z7F7;O15235;Q13469;P61313;P67809;P25398;Q13084;P83369;Q9Y4Z0;P82914;O60783;Q9NV31;P61513;Q9NZE8;P62306;A6NKH3;P05388;O14746;Q9Y2R9;P62269;Q6P1L8;Q02543;P42766;P62081;Q9NQ50;P55769;P61247;Q9BYD3;Q13064;Q9HD33;Q9NWU5;Q96DV4;P18621;Q9Y676;P46781;P31942;P82921;P84098;P15880;O15116;Q9UKV8;P50914;Q9Y6G3;Q8WVY3;P62829;P62979;Q6P2Q9;Q9Y3D5;P39019;P09012;Q9BYD6;Q9Y3D3;Q9H7H0;P62314;P23396;P52272;Q4U2R6;P42677;P62750;Q96EH5;P62701;Q9BQC6;Q9Y2T7;P30050;Q9NP92;P14678;P62910;P36578;Q12789;Q86TS9;P19474;Q9BRJ2;Q9BZE1;P82675;Q14137;P62847;Q13405;Q9UHB9;P62851;Q96QE5;Q8N5N7;Q13310;P22090;Q9NPE3;P22087;P46777;P82663;P52815;Q07020;P62263;P38159;P62866;P62841;P83881;Q969L4;P62316;Q9UHX1;Q13601;P82932;P05386;Q9NY12;P18077;Q15696;Q32P51;Q7Z2W9;Q99729;P46776;P62241;Q96HR8;Q9BRS8;P52597;Q9Y291;O95478;P09234;P62308;Q9BYN8;P62312;Q96PK6;P62753;P62945;P57723;P62310;Q9UK45;P09661;Q15365;Q92901;P32969;P26373;P18124;Q16630;P40429;P27635;Q9P015;Q7Z7H8;P46783;Q9Y3B7;C9JE40;P82673;Q96GC5;P62906;Q9H9J2;Q92665;Q9P0M9;P62244;Q9NX20;P62888;P0C6E6;P57721;P63220;Q9Y2Q9}

3968 Pathogen[ Q85601] interacts with 268 human partners: {P46783;P32969;Q9NV31;P61513;Q8NHW5;P26373;O15234;P61978;P09234;P62857;P52815;Q13064;P62244;P09001;Q9Y2T7;Q9BQC6;Q96EL2;Q9BYD1;P62913;P08107;Q96PK6;P62854;P82930;P82912;P62081;O43390;Q6P5R6;P61353;Q96A35;P62891;P46776;P82933;Q9UQ80;P18077;P61313;Q9Y2R5;Q9Y3D5;P49406;P05388;Q9HCK5;Q9NP92;A6NKH3;Q9Y3B7;Q4U2R6;P62304;O60506;Q96HR8;P63173;P38935;Q9H0U6;Q13310;Q9NX20;Q8TCC3;Q14103;P82921;O15116;A6NHQ2;Q92665;C9JE40;Q9H2W6;P23396;P62273;Q9UL18;P46778;P10155;P62829;P30050;P62753;O95793;P27635;P22626;Q9UHX1;Q9UKK3;Q9BYC8;Q9BYC9;P82932;P15880;Q9BQ48;Q9P0M9;P83881;Q07020;P39019;P08621;Q5T653;Q96G21;Q96QE5;Q969L4;Q9Y3U8;Q71UM5;Q14764;Q9BYN8;P62701;P62241;P82675;P62424;Q9BRS8;Q92552;P19338;Q9Y3D9;Q13469;Q9BUJ2;P83731;P55795;Q9BYD2;P62899;Q92499;P62945;Q9UK45;Q08211;P62316;P55769;Q9H7H0;P62263;Q9P015;P62861;Q02878;Q9BYD6;Q09161;P39023;P60709;P61254;P14678;Q9Y2R9;Q13405;P51398;Q9H0G5;Q9Y3D3;P49207;P11940;Q96GC5;Q9Y291;P62910;Q9Y6G3;Q9NRX2;Q8N983;P82909;P62310;O15235;Q9H9G7;P62249;P62280;Q9NP64;P62314;P62306;P47914;Q9HD15;P84098;Q96L21;Q7Z7F7;Q13084;P08708;P63162;Q9Y4Z0;Q12906;O75394;P62318;P42766;Q9NZE8;P52597;P11142;Q9NVS2;P62269;P62312;Q9Y2Q9;Q9BYD3;Q9NWU5;Q8N5N7;P67809;P18621;Q9Y676;P05387;Q9NYK5;P83369;Q9BRJ2;P06748;O00566;Q9UNX3;Q9BX40;Q9UKV8;P62277;O95478;P35268;Q8WVY3;Q13601;O14980;P62979;P62847;Q9HD33;O95777;P42677;P63220;Q96EH5;P14866;Q6P2Q9;O14746;Q8IXM3;Q12789;Q86TS9;Q00839;Q9BZE1;Q12905;P46782;Q9NQ50;Q9UHB9;O60783;P46779;Q9NV06;P62750;Q9NPE3;P22087;P62851;P62841;Q96DV4;P62308;P62987;P38159;P82663;P22090;Q15696;Q9Y333;Q15365;P19474;P82664;P61927;P57721;P36578;Q9H9J2;P05386;Q9NY12;Q86U42;P31943;P82914;P08865;Q14137;Q9Y399;P61247;P16989;Q9H583;Q99700;Q9UKF6;Q9P0J6;P09132;Q14493;Q5JNZ5;O60832;P46777;P09661;P62917;Q96N16;Q92901;Q15366;Q6P161;P18124;P46781;P11308;Q6NVV1;P25398;P60866;Q02543;P62906;P50914;P62266;P40429;Q8ND56;P62888;Q6P1L8;Q9Y4Y9}

3969 Pathogen[ P14079] interacts with 283 human partners: {Q9NQ39;Q9Y3U8;Q9BQC6;P27635;Q8IXM3;P52815;P84098;P46779;A6NKH3;Q9BYD6;Q92552;Q9Y333;Q7Z7F7;O14746;Q9NQ50;Q9UKV8;P26373;Q8WVV9;Q4U2R6;P09132;P10155;P57723;P23396;P11142;Q6NVV1;Q9NV31;O95793;Q9NPE3;P40429;Q9UL18;Q9H9G7;P57721;P18621;Q9H0U6;P83881;Q6P161;Q8ND56;Q9UKF6;Q14103;P67809;Q8TCC3;Q99700;Q9UNX3;P82664;P46781;P83731;C9JE40;P61513;Q9UK45;P62753;P82933;Q9BQ48;O60832;P39023;P62273;Q9Y2R9;Q9BYD2;Q9BYC9;Q9HCK5;P25398;Q9BUJ2;Q12906;Q9BRJ2;Q8NHW6;Q9Y6G3;Q9NRX2;P18077;Q9Y291;P14866;Q16540;P46783;P07910;Q13310;P61254;P50914;Q7Z2W9;O15116;P62312;P62979;A6NHQ2;Q96HR8;Q6P2Q9;P62841;P18124;P62314;P42766;Q08211;Q9UHX1;Q9UKK3;P62266;Q9Y2R5;P46782;Q00839;P62987;P22087;Q96N16;Q5JNZ5;O60783;P11308;Q8WVY3;P62241;P83369;Q9Y3D3;P32969;P22090;P62306;Q9P0M9;P62829;P14678;P60866;Q12905;P19338;Q9Y2T7;P62854;Q07020;P39019;Q13084;P55795;Q9BZE1;P63220;O00566;Q9NV06;P49207;Q96L21;P62244;P82921;Q9NP64;P82650;P16989;P09001;Q96A35;P62263;Q02543;P19474;P62424;Q92901;P62277;Q9H2W6;P11940;P62750;P62910;Q86TS9;Q9H583;P6

3173;Q9Y4Z0;P49458;Q6DKI1;Q96GC5;P46776;Q9BYD3;Q9NY12;P08107;P82912;P08621;P08708;Q9BRS8;Q9HD15;Q86U42;Q92665;Q9Y2Q9;P36578;Q8N5N7;Q16630;P62308;P0CW22;Q9BYD1;O60506;Q15696;P09012;P60709;P13639;P37198;Q71UM5;Q15366;Q9BYC8;P62304;O15235;P62906;P62316;P47914;P62280;Q6P5R6;P62310;P06748;Q9H0G5;Q969L4;P62899;Q15365;Q9NP92;Q9BYN8;Q13405;Q95478;Q13601;P61353;P62081;P62945;Q13064;Q96EL3;Q9NX20;P46777;P42677;Q9H9J2;P30050;Q9P015;P61978;Q12789;P31943;P15880;Q14764;Q59GN2;O75394;Q7Z7H8;Q14493;P62891;Q95777;P82909;Q9H7H0;P82675;Q92499;Q9NZE8;Q9HD33;P62888;P08865;P55769;P82673;Q9BX40;P38935;Q14137;P61927;P52597;O43390;P62917;P09234;Q9Y3B7;Q96G21;Q9P0J6;P46778;P62249;Q13469;Q9Y676;P82930;Q96DV4;P09661;Q969Q0;P05386;P35268;P62913;P51398;Q8N983;Q9NVS2;P05387;P61247;P62318;Q9NYK5;Q9UQ80;P62269;Q9Y4Y9;P62701;Q9UHB9;P61313;O15234;Q5T653;P82663;Q8TD47;Q96EL2;Q96PK6;P62851;Q6P1L8;P0C6E6;Q09161;P05388;P22626;P38159;Q96EH5;Q9Y3D5;P62857;P62861;Q9Y3D9;P82914;Q8NHW5;P49406;P63162}

3970 Pathogen[ P03383] interacts with 263 human partners: {P08107;P42766;P51398;P36578;P05388;P62266;Q95478;P16989;Q8NHW5;P39019;Q13601;P19474;P26373;O15234;P09661;Q96EL2;Q9BYD1;P62913;Q9BX40;P62945;Q15366;P06748;P62854;Q969L4;P82930;P40429;P82912;Q9BYD2;O43390;Q96A35;Q13469;P62987;P62891;P25398;P19338;Q13084;Q9NP64;Q9UL18;P62280;P82664;P62318;Q07020;P49458;P62312;P62750;P22626;Q9BRJ2;P14866;P05387;Q9BQ48;P62249;P62888;P62899;P61927;A6NKH3;P46777;P46779;P49207;Q9P0J6;P55795;P62316;Q9NX20;Q99700;P83731;P62424;Q9H2W6;P49406;P18124;P82933;P46778;Q92901;P62753;P62304;Q9BQC6;P42677;Q9NWU5;P61247;Q9BYC9;Q6P2Q9;Q9Y4Y9;Q5JNZ5;P83881;Q9HCK5;P09001;P63162;Q9BYD3;P47914;Q5T653;Q9POM9;Q71UM5;Q9Y2R9;P61978;P11940;P31943;Q9NPE3;P62917;Q9NP92;P82914;Q13405;P62273;Q9UNX3;Q9BZE1;Q96L21;P09132;Q13064;Q969Q0;Q92665;Q9UKF6;Q9NRX2;Q9BRS8;P30050;P10155;P84098;Q9Y2T7;P38159;Q9Y6G3;O75394;Q96G21;P32969;Q9BYN8;Q9NVS2;Q09161;P82675;P62277;Q92552;Q9BYD6;P18077;Q6P1L8;P63173;Q9Y3D9;Q95777;O60783;P62081;Q9UHX1;Q9Y2Q9;P11308;Q9HD15;P62314;Q96PK6;Q9H583;P62310;Q96N16;Q9Y2R5;Q9Y3B7;Q9NV31;P61313;O14980;P08865;Q8WVV9;P82909;P82663;P62851;Q14493;P46782;Q14103;Q9HD33;Q9NZE8;O14764;P62269;Q9P015;P57721;P63220;Q02543;P62244;P14678;Q02878;Q8ND56;Q9NY12;Q9Y333;Q9Y3D5;P11142;Q86TS9;P82921;P62910;Q15365;P27635;Q9UKV8;Q12905;Q8IXM3;Q96HR8;P62857;Q12906;P82932;P09012;P62906;Q9Y4Z0;P46783;Q9H7H0;Q9Y3U8;P60866;P52815;Q9UK45;Q9UKK3;P61254;Q9UQ80;P62979;Q9BUJ2;P62241;C9JE40;Q7Z7F7;P46781;Q8WWY3;Q96EH5;Q9H9J2;P82650;P39023;Q9NQ50;P55769;Q9UHB9;Q8TCC3;Q13310;P38935;P62841;P62308;Q6NVV1;P22090;Q12789;Q92499;P37198;P62701;P62829;O15116;Q9H0G5;P83369;Q9Y676;P62263;P62847;P35268;Q4U2R6;P05386;P50914;O15235;Q86U42;Q9Y291;P22087;P67809;Q14137;Q9Y399;P09234;P62861;Q00839;P18621;P08621;P46776;Q96GC5;Q14764;P52597;P15880;O60832;P23396;Q8N5N7;Q8N983;Q9Y3D3;P61513;Q9H9G7;Q59GN2;Q96QE5;O00566;Q9BYC8;P62306;Q9H0U6;P08708;P61353}

3971 Pathogen[ P03410] interacts with 291 human partners: {Q99700;Q9Y2Q9;P62861;P05386;A8MWD9;Q8NHW5;P22087;Q9Y399;Q7Z7F7;Q02543;P61247;P62241;Q00839;P62829;P49207;P26373;P82663;Q9Y4Y9;Q9HD33;P61513;Q9NP64;P82909;Q14103;P62304;P62899;O15234;Q9P015;Q96PK6;P0CW22;Q9POM9;Q9UKV8;Q9UHB9;Q8WWY3;P62244;Q9H7H0;Q15696;P62913;P61978;Q8TCC3;Q16540;Q02878;Q9NX20;Q92901;P22626;P11940;P16989;Q9BUJ2;P15880;Q9NV06;P62306;P46777;P46776;O14764;P62841;P82675;Q5JNZ5;P30050;Q9NQ39;P62310;Q9UL18;P05388;Q96G21;Q8N983;O15235;Q9UQ80;Q95777;P46781;P18124;Q8NHU6;Q96A35;Q14493;Q9H0G5;P57723;P49406;Q15365;Q92665;Q9BYD2;Q9Y333;P62269;A6NHQ2;Q07020;P57721;P63220;P55769;P62910;P62650;P62847;Q59GN2;P62906;P11142;Q9P0J6;P52815;Q9NP92;P23396;P18621;P62266;Q9NWU5;O60832;Q96N16;Q15366;P62249;P62308;P14678;P63173;P62316;P50914;Q969Q0;Q96DV4;P06748;Q14137;P62280;Q96EH5;Q9BQC6;Q9NYK5;Q9BYN8;Q6DKI1;Q9H9G7;P22090;P13639;Q9BYD6;P61313;P62979;Q9Y3D5;Q9H9J2;P14866;Q9BYD3;P09012;P62701;Q8WVV9;P62750;O60783;P82664;Q96QE5;P08621;P08865;Q96L21;P67809;Q9UNX3;P62277;Q9NX24;Q9Y676;P36578;Q9BYD1;P18077;P07910;P08579;P25398;P38935;O43818;Q92552;Q14764;P61927;P84098;Q4U2R6;P62854;Q96EL3;P62273;Q9NRX2;P09132;Q9BYC8;P0C6E6;Q8N5N7;P52597;P08107;P62081;P62081;Q8TD47;P31943;Q92499;P62314;P83369;Q6NVV1;Q9BRJ2;Q12905;Q9Y3U8;Q9UHX1;Q13084;P09661;Q6P1L8;Q9Y291;Q9NY12;Q9HCK5;Q12789;Q13064;P19338;P52272;P08708;Q9Y2R9;P46782;P32969;Q9Y6G3;Q9BQ48;Q9NQ50;Q8IXM3;Q13469;P82673;Q5T653;P82912;P09234;P46779;P27635;Q96EL2;Q9NZE8;Q969L4;Q9Y4Z0;Q9UKF6;P62987;Q8ND56;Q9Y3D9;Q7Z2W9;Q9NPE3;Q86TS9;P62857;Q95793;Q9BYC9;Q96HR8;P62263;Q9UKK3;P62424;P62888;O60506;P61254;Q09161;Q9H2W6;P46778;A6NKH3;P62945;P05387;Q13601;P42766;Q95478;Q6P2Q9;Q9NV31;O15116;P09001;P39019;P62312;P47914;P82933;Q16630;Q86U42;P40429;Q9Y2T7;Q9HD15;P49458;P39023;P55795;Q9H583;P11308;Q6P161;P82914;P62917;P62851;Q7Z7H8;P82921;Q9NVS2;P83731;P82930;P38159;P35268;Q08211;Q9Y2R5;P61353;Q9UK45;Q13310;P63162;P62891;Q12906;Q9BRS8;P62753;Q6P5R6;Q13405;P60709;Q71UM5;O00566;O14980;Q9BZE1;C9JE40;Q9BX40;Q75394;P83881;Q9H0U6;P60866;O43390;P51398;P42677;Q9Y3D3;P10155;Q96GC5;Q9Y3B7;P62318}

3972 Pathogen[ P14075] interacts with 263 human partners: {P42766;P22626;O00566;Q15366;Q12789;Q9H7H0;P49207;O15234;P09132;P62857;P62304;P52815;P46781;Q9BRJ2;P63220;P32969;P14866;Q96EL2;Q9UK45;Q9BYD1;Q9BYD6;Q09161;Q9H583;P62316;Q9NRX2;Q9BYD2;Q14764;P42677;P19338;P62913;P82921;P22090;Q9POM9;Q9NYK5;P11142;Q02878;P82912;Q96L21;P16989;Q9Y3D9;P62277;O14764;P08621;Q96GC5;Q9Y2Q9;P62851;Q9HCK5;Q14103;Q59GN2;P08865;Q13064;P62244;P49406;Q9BQC6;Q9Y2R5;Q9NX20;P08708;Q9H9G7;Q14493;Q9UHX1;Q96N16;Q9Y4Z0;P61254;P46778;O75394;Q12905;P09234;P38159;P38935;Q9BX40;P05388;Q9Y3D3;Q9HD33;P83881;P82650;Q95777;Q5T653;P46777;Q6P1L8;Q9Y3U8;P31943;Q9Y3U8;P62249;P63162;Q12906;Q9H2W6;Q13601;Q8N5N7;P62306;P62081;Q9H9J2;P62308;P62750;P18621;Q969Q0;Q9Y3D5;O43390;Q02543;Q9BYC9;P18124;Q9UNX3;P25398;Q9BQ48;Q9BZE1;Q13084;Q96HR8;P62312;P82909;Q9Y3B7;P51398;Q9Y2R9;Q13405;Q9Y676;Q92499;P11940;P10155;O14980;P63173;Q15365;Q00839;Q9NWU5;P30050;P57721;O15235;P62979;Q13310;Q9Y399;Q9NPE3;P83731;P49458;P84098;P62318;Q8N983;P83369;O15116;Q8TCC3;P55769;P61247;O60783;P62753;P46782;P62891;Q13469;Q96PK6;Q9Y2T7;P62861;Q96A35;Q9BUJ2;P18077;P82664;Q9NV31;P46779;Q92665;P62917;P39023;Q9NZE8;P50914;Q6NVV1;P62269;P62847;P62910;P62273;Q9P015;Q6P2Q9;Q86TS9;P37198;P40429;Q9NQ50;P82663;P233

- 96;P19474;P22087;P62241;Q9Y291;P15880;P11308;P82930;P62987;P67809;Q9BRS8;P06748;P82914;P09661;Q9UKV8;P62841;Q9Y333;P36578;Q5JNZ5;P61978;P62266;P82932;O60832;Q96G21;Q9UQ80;P61513;P09012;P61313;P27635;P14678;P62888;Q9H0U6;Q92901;Q95478;Q8IXM3;P08107;P35268;Q9BYN8;Q14137;Q9UHB9;P62945;Q9NP64;P46776;Q96EH5;P09001;Q9BYD3;Q9UL18;Q99700;P46783;Q7Z7H8;Q4U2R6;P62701;Q9NP92;Q9BYC8;Q9H0G5;P62899;P52597;P82933;P47914;P62906;P62314;Q7Z7F7;Q9Y4Y9;P05386;Q9UKF6;Q9NY12;Q8WVV9;Q86U42;P61353;P39019;Q92552;P62424;P62829;P62280;Q96QE5;Q9P0J6;Q9HD15;Q07020;C9JE40;Q8WWY3;P62263;Q969L4;P62854;P60866;Q8ND56;P82675;P26373;P05387;Q9Y6G3;A6NKH3;P62310;Q9NVS2;Q9UKK3;Q71UM5;P61927}
- 3973 Pathogen[ P0C206] interacts with 279 human partners: {Q9BUJ2;Q8N5N7;Q6P1L8;P09132;P40429;P61313;Q9NPE3;Q6P161;Q96A35;P67809;Q9Y291;Q9Y3D5;A6NHQ2;Q9Y399;P60709;Q9UKF6;Q8NHW5;Q13601;Q96G21;Q14103;Q96L21;P27635;P14678;Q95478;Q9HCK5;P82930;Q15365;P18124;Q8IXM3;Q96EL3;Q7Z2W9;P38935;P62854;Q9H0U6;Q13469;Q12905;Q96EL2;P49207;Q9BQ48;Q8ND56;Q15696;Q9BX40;P62081;Q9Y3D3;Q14137;Q09161;Q9P015;P30050;Q9NY12;P55769;O60783;P82914;Q13084;P62241;Q4U2R6;P62304;P62244;P50914;Q9BYC8;P08865;Q08211;P62750;P18621;P09012;P46781;P62266;Q02543;P14866;C9JE40;Q92665;Q7Z7H8;P61978;P63162;Q9Y676;P09001;Q07020;Q9P0M9;P83881;P46778;Q9BRS8;P19338;P62263;P62273;Q86U42;Q8WVV9;P62314;P62316;Q43390;Q02878;Q9P0J6;Q9UKV8;Q9NWU5;Q5T653;P82673;Q9NRX2;P62280;Q96QE5;P22626;P49406;Q6P5R6;Q9H0G5;Q9HD15;P62857;P62851;Q9BYN8;Q9Y6G3;P62910;Q9Y4Y9;Q96N16;Q9UHX1;P46782;Q9NZE8;Q9Y4Z0;P61247;P11308;P57721;P83369;P51398;Q9HD33;P18077;Q95777;Q9H583;Q9BRJ2;P62913;P61927;Q9Y333;P61353;P62888;Q6NVV1;Q13064;Q75394;P82664;P36578;Q96GC5;Q9NVS2;Q9UK45;P62861;P38159;O60506;Q13310;Q9BYC8;P35268;P23396;P39023;Q9UKK3;Q99700;Q9Y2R9;P32969;Q13405;P82909;P52597;P62701;Q16630;P05386;Q9Y3B7;Q86TS9;P22090;Q9NV06;Q9BYD6;P84098;P62945;Q9BYD2;P10155;P26373;Q71UM5;Q96PK6;Q8TCC3;P46777;P05388;P62979;Q6P2Q9;Q95793;P62318;O15234;P62899;P08107;P82933;Q92552;P83731;Q9Y3D9;P82663;P82675;Q8WWY3;P55795;P39019;Q92901;P05387;O60832;P46783;P42766;P60866;Q9NP92;P62306;Q96HR8;P62841;Q15366;Q9H2W6;Q9NV31;Q9H9G7;Q9UNX3;Q9BZE1;P82650;Q969Q0;P61513;Q9Y2Q9;P49458;P22087;A6NKH3;Q9BYD1;Q9NQ50;P62277;Q9UHB9;Q9NP64;P0C6E6;P46776;Q9H9J2;Q8N983;P62906;P62312;Q9H7H0;Q9UQ80;P63173;P06748;P82932;Q9NYK5;P09661;P62987;Q9Y2R5;P62308;P62891;P62269;P62753;P08621;P46779;P63220;P62310;Q5JNZ5;Q92499;P15880;Q9NX20;Q00839;Q9Y2T7;Q96EH5;P25398;P08708;Q14493;P611940;Q7Z7F7;P47914;O15235;Q9BQC6;P09234;Q12906;Q12789;P62847;P31943;P61254;Q96DV4;P82912;O15116;O00566;O14746;Q14764;P42677;P62829;Q9UL18;Q969L4;P52815;P19474;Q9BYD3;P62249;P62424;P82921;Q59GN2;Q6DKI1;Q9Y3U8;P62917}
- 3974 Pathogen[ P03363] interacts with 301 human partners: {O95777;O60832;P62913;Q9NX24;P82650;P62314;Q9Y2R5;Q9BYD2;A8MWD9;P09132;P18621;P05386;Q13151;Q9Y4Y9;Q8NHW5;P63162;Q9Y4Z0;P62750;Q15366;P23396;P42677;P19338;Q9H7H0;P63173;P08865;Q96GC5;P62847;P18077;P82664;P05387;Q96EL2;P84098;P42766;Q8NHW6;Q9NZE8;P60709;P62249;P52597;Q9BYD1;P82921;P05388;P36578;P09012;P49406;P62753;P62312;P62081;A6NKH3;P62910;Q8IXM3;P51991;Q95478;P14866;P61513;Q46776;Q9HD15;Q92879;Q13405;O14980;Q9BYD3;P82914;Q9H0G5;P61254;Q9P0J6;P62273;Q9H9G7;Q9UHB9;P09651;P32969;Q92901;P08579;Q8N5N7;P46778;Q95793;Q9NVS2;Q9NY12;Q9Y3D5;P61927;O75526;P82930;Q9Y2Q9;P57723;Q9HCK5;P62891;P52815;P62318;Q6P5R6;Q9NV31;Q59GN2;Q9UKV8;P61353;Q16630;Q96EL3;Q4G0J3;Q9H9J2;Q96A35;P62304;Q6P2Q9;O14746;Q9BZE1;P09234;P08708;Q9NQ50;P15880;P11940;Q96L21;Q86U42;Q8WWY3;Q13601;Q32P51;Q7Z7F7;Q8TCC3;Q9UQ80;P06748;Q96DV4;Q9H0U6;Q96PK6;Q99729;Q9HD33;Q43818;P62306;Q9BX40;O15116;Q9Y3B7;P26373;P52272;P83369;Q4U2R6;P83881;P19689;Q96EH5;Q9BRJ2;Q9NWU5;P22090;Q9Y333;P62861;P62841;P62316;Q9UNX3;P10155;O75394;P30050;P82912;P62829;P38159;Q12906;P11308;P08107;P82663;P46782;P35268;Q9NRX2;P31943;Q9NZI8;Q6P161;Q9UKK3;Q9Y6G3;Q96QE5;Q92552;Q9BYC8;P46781;P50914;Q9H2W6;P19474;Q9NP64;Q13310;Q9NPE3;Q9P0M9;Q9Y2R9;P22087;P07910;P63220;P57721;P31942;Q9Y3D9;P61313;Q92499;P39019;Q9NX20;Q9UHX1;Q14137;O00566;P08621;P46779;Q5T653;Q02543;P14866;Q96G21;P62987;Q8N983;O60783;Q12905;P25398;Q9NP92;P22626;P09001;P82675;O60812;Q5JNZ5;Q9BRS8;Q15365;P82933;Q13469;Q14103;P83731;P62851;P62280;P55795;Q71UM5;Q92665;Q9H583;Q9Y3U8;P62888;P49458;Q9UL18;Q8ND56;P62310;Q9UKM9;Q969Q0;Q9Y676;P62244;P62277;O60506;P62906;Q96E39;Q9UK45;P62266;P61978;P62945;P49207;P62241;Q969L4;P05455;Q9BQC6;P62424;P55769;P60866;P61247;Q12789;P16989;Q9P015;Q9Y3D3;Q00839;Q13084;P62308;P62899;Q9UKF6;P62857;P62857;Q99700;Q99700;P82909;Q6NVV1;O43390;Q07020;P0C6E6;P39023;P82932;Q14493;Q9NQ39;Q9BQ48;P37198;Q86TS9;P14678;P62854;P09661;Q9Y399;Q08211;O15235;P62917;Q7Z2W9;Q96N16;Q14764;Q9BUJ2;P51398;Q9BYC9;Q9Y2T7;P18124;Q9NV06;P40429;P27635;P62263;Q15696;Q96HR8;P47914;Q9Y291;P38935;P62701;Q9BYN8;Q8WVV9;Q8TD47;P11142;Q9BYD6;P62269;P67809;Q09161;P46783;A6NHQ2;O15234;Q6P1L8;Q6DKI1}
- 3975 [Cluster 362]GO:0000974+C cellular\_component [name] Prp19 complex [def] "A protein complex consisting of Prp19 and associated proteins that is involved in the transition from the precatalytic spliceosome to the activated form that catalyzes step 1 of splicing, and which remains associated with the spliceosome through the second catalytic step. It is widely conserved, found in both yeast and mammals, though the exact composition varies. In *S. cerevisiae*, it contains Prp19p, Ntc20p, Snt309p, Isy1p, Syf2p, Cwc2p, Prp46p, Clf1p, Cef1p, and Syf1p." [GOC
- 3976 Pathogen[ Q2Q067] interacts with 4 human partners: {P11142;Q9UMS4;Q99459;Q8WYA6}
- 3977 Pathogen[ P0C214] interacts with 4 human partners: {Q9UMS4;Q99459;Q8WYA6;P11142}
- 3978 Pathogen[ P03346] interacts with 4 human partners: {Q9UMS4;P11142;Q8WYA6;Q99459}
- 3979 Pathogen[ Q85601] interacts with 4 human partners: {Q9UMS4;Q8WYA6;P11142;Q99459}
- 3980 Pathogen[ P14079] interacts with 4 human partners: {Q99459;P11142;Q9UMS4;Q8WYA6}
- 3981 Pathogen[ P03383] interacts with 4 human partners: {Q99459;P11142;Q8WYA6;Q9UMS4}
- 3982 Pathogen[ P03410] interacts with 4 human partners: {P11142;Q8WYA6;Q99459;Q9UMS4}
- 3983 Pathogen[ P14075] interacts with 4 human partners: {P11142;Q99459;Q9UMS4;Q8WYA6}
- 3984 Pathogen[ P0C206] interacts with 4 human partners: {Q9UMS4;Q8WYA6;Q99459;P11142}
- 3985 Pathogen[ P03363] interacts with 4 human partners: {Q8WYA6;Q9UMS4;Q99459;P11142}

3986 [Cluster 363]GO:0031514+C cellular\_component [name] motile cilium [def] "A cilium which has a variable arrangement of axonemal microtubules, contains molecular motors, and beats with a characteristic whip-like pattern that promotes cell motility or transport of fluids and other cells across a cell surface. Motile cilia are typically found in multiple copies on epithelial cells that line the luminal ducts of various tissues. Motile cilia may also function as sensory organelles." [GOC

3987 Pathogen[ Q2Q067] interacts with 3 human partners:{Q5TD94;Q96C74;Q96NB1}

3988 Pathogen[ P0C214] interacts with 3 human partners:{Q5TD94;Q96C74;Q96NB1}

3989 Pathogen[ P03346] interacts with 3 human partners:{Q5TD94;Q96C74;Q96NB1}

3990 Pathogen[ Q85601] interacts with 3 human partners:{Q5TD94;Q96C74;Q96NB1}

3991 Pathogen[ P14079] interacts with 6 human partners:{Q9H1X1;Q5TD94;O75952;O15259;Q96C74;Q96NB1}

3992 Pathogen[ P03383] interacts with 3 human partners:{Q5TD94;Q96NB1;Q96C74}

3993 Pathogen[ P03410] interacts with 5 human partners:{Q96NB1;O15259;Q5TD94;Q9H1X1;O75952}

3994 Pathogen[ P14075] interacts with 3 human partners:{Q5TD94;Q96NB1;Q96C74}

3995 Pathogen[ P0C206] interacts with 5 human partners:{O75952;Q5TD94;Q96C74;Q9H1X1;Q96NB1}

3996 Pathogen[ P03363] interacts with 5 human partners:{Q9H1X1;Q5TD94;Q96C74;Q96NB1;O15259}

3997 [Cluster 364]GO:0000806+C cellular\_component [name] Y chromosome [def] "The sex chromosome present in males of species in which the male is the heterogametic sex\_ generally, the sex chromosome that pairs with the X chromosome in the heterogametic sex. The Y chromosome is absent from the cells of females and present in one copy in the somatic cells of males." [GOC

3998 Pathogen[ Q2Q067] interacts with 2 human partners:{O75182;P24941}

3999 Pathogen[ P0C214] interacts with 2 human partners:{P24941;O75182}

4000 Pathogen[ P03346] interacts with 2 human partners:{P24941;O75182}

4001 Pathogen[ Q85601] interacts with 2 human partners:{O75182;P24941}

4002 Pathogen[ P14079] interacts with 1 human partners:{O75182}

4003 Pathogen[ P03383] interacts with 2 human partners:{O75182;P24941}

4004 Pathogen[ P03410] interacts with 2 human partners:{O75182;P24941}

4005 Pathogen[ P14075] interacts with 2 human partners:{P24941;O75182}

4006 Pathogen[ P0C206] interacts with 2 human partners:{P24941;O75182}

4007 Pathogen[ P03363] interacts with 2 human partners:{P24941;O75182}

4008 [Cluster 365]GO:0005923+C cellular\_component [name] tight junction [def] "An occluding cell-cell junction that is composed of a branching network of sealing strands that completely encircles the apical end of each cell in an epithelial sheet\_ the outer leaflets of the two interacting plasma membranes are seen to be tightly apposed where sealing strands are present. Each sealing strand is composed of a long row of transmembrane adhesion proteins embedded in each of the two interacting plasma membranes." [GOC

4009 Pathogen[ Q2Q067] interacts with 25 human partners:{Q9BTW9;O75161;Q8NI35;Q8IY63;Q9NPB6;Q9BYG5;Q9P2M7;Q8N3V7;Q9NR48;Q92797;Q5JTD0;Q9NPG3;A6NKD9;O14910;Q86UE4;Q86UL8;O95049;Q12959;Q07157;Q9UDY2;Q9Y2J4;Q5TCQ9;Q68DX3;Q9BYG4;Q9NUP9}

4010 Pathogen[ P0C214] interacts with 23 human partners:{Q5JTD0;O14910;O75161;Q68DX3;Q8NI35;Q9Y2J4;Q5TCQ9;Q9BTW9;Q92797;Q86UE4;O95049;Q9NPB6;Q12959;Q9UDY2;Q9P2M7;Q9BYG5;Q9NR48;Q8IY63;A6NKD9;Q8N3V7;Q07157;Q9BYG4;Q9NPG3}

4011 Pathogen[ P03346] interacts with 34 human partners:{A6NKD9;Q9NPG3;Q8N3V7;Q15438;Q9UDY2;Q68DX3;Q86UE4;Q5TCQ9;Q68CZ1;O75970;O43815;Q9NPB6;Q8TEW0;Q5JTD0;Q8IY63;Q8NI35;O75161;Q8N3R9;Q9NUP9;Q86UL8;Q9BYG5;Q5T2T1;O95049;Q07157;Q9BYG4;Q9Y2J4;Q9HAP6;Q9BUZ4;Q92797;Q9H8V3;Q9NR48;O14910;Q9P2M7;Q12959}

4012 Pathogen[ Q85601] interacts with 26 human partners:{O75161;Q9NUP9;O14910;Q9NPG3;Q9BYG5;Q8IY63;O95049;Q9NR48;Q86UL8;Q9UDY2;O43815;Q9BTW9;Q8NI35;Q68DX3;Q8N3V7;Q5JTD0;Q5TCQ9;Q9NPB6;Q9Y2J4;Q86UE4;Q07157;Q92797;A6NKD9;Q12959;Q9P2M7;Q9BYG4}

4013 Pathogen[ P14079] interacts with 42 human partners:{Q5JTD0;O75161;Q9BTW9;Q68DX3;Q8N7P3;C9JDP6;Q9BYG5;Q9UDY2;P56750;A6NM45;Q07157;Q5T2T1;Q68CZ1;O43815;A6NKD9;Q9Y2J4;A6NFC5;Q9BUZ4;O00501;Q92797;Q8TEW0;Q9NUP9;Q8N6F1;Q8NI35;O95049;Q9NPG3;Q9BYG4;Q8N3V7;Q96B33;Q9H8V3;Q9HAP6;Q86UE4;Q8N3R9;Q9P2M7;Q86UL8;Q16625;Q9NPB6;O15259;Q15438;Q8IY63;Q96A59;O75970}

4014 Pathogen[ P03383] interacts with 19 human partners:{Q86UE4;A6NKD9;Q5JTD0;Q92797;O95049;Q07157;Q9Y2J4;Q9BYG5;Q9NPB6;Q9P2M7;Q9NPG3;Q8IY63;Q5TCQ9;O75161;Q68DX3;Q8N3V7;O14910;Q9UDY2;Q9BYG4}

4015 Pathogen[ P03410] interacts with 48 human partners:{O14910;Q96B33;A6NKD9;Q8N7P3;Q8TEW8;Q9Y2J4;O15259;Q12959;Q0VF96;Q5TCQ9;O00501;O75161;Q8N6F1;Q9NUP9;Q8NI35;Q9NPG3;P56747;Q9HAP6;Q5T2T1;O75970;Q96A59;Q9UDY2;C9JDP6;Q92797;A6NFC5;Q07157;Q9BTW9;Q86UE4;Q5JTD0;Q15438;Q16625;Q8TEW0;O43815;Q9NPB6;Q9P2M7;A6NM45;Q86UL8;Q9H8V3;P56750;Q68CZ1;Q68DX3;Q8IY63;O95471;Q9BYG4;Q8N3R9;Q9BYG5;O95049}

4016 Pathogen[ P14075] interacts with 20 human partners:{Q92797;A6NFC5;O95049;Q68DX3;Q8N3V7;Q07157;Q86UE4;Q9BYG4;Q5TCQ9;Q5JTD0;Q8IY63;Q9Y2J4;O75161;O14910;Q9UDY2;A6NKD9;Q9BYG5;Q9NPB6;Q9P2M7;Q9NPG3}

4017 Pathogen[ P0C206] interacts with 32 human

partners:{A6NKD9;Q9NUP9;Q8N3V7;O43815;O75161;O95049;Q8IY63;Q9BTW9;Q5TCQ9;Q9BYG5;Q9UDY2;Q5JTD0;Q8N3R9;Q9NPG3;Q92797;Q8TEW0;Q9BUZ4;Q5T2T1;Q9NR48;A6NFC5;Q9Y2J4;Q8NI35;Q9NPB6;Q9H8V3;O14910;Q07157;Q86UE4;Q9P2M7;Q86UL8;Q68DX3;Q12959;Q9BYG4}

4018 Pathogen[ P03363] interacts with 33 human

partners:{Q12959;Q8N3V7;O95049;O75161;Q15438;A6NKD9;O14910;Q5JTD0;Q9NPG3;Q9NPB6;Q8IY63;Q5T2T1;Q86UE4;O75970;Q9BYG4;Q07157;Q92797;Q9Y2J4;Q5TCQ9;O43815;Q8N3R9;Q9BTW9;Q9UDY2;Q9BYG5;Q9NR48;Q8NI35;Q86UL8;O15259;Q9BUZ4;Q9NUP9;Q9P2Q2;Q9P2M7;Q68DX3}

4019 [Cluster 366]GO:0000795+C cellular\_component [name] synaptonemal complex [def] "A proteinaceous scaffold found between homologous chromosomes during meiosis." [GOC

4020 Pathogen[ Q2Q067] interacts with 8 human

partners:{Q7Z5K2;Q9UHC1;P63279;P11388;Q9NQS7;Q9UJ98;Q6PIF2;Q9BX26}

4021 Pathogen[ P0C214] interacts with 8 human

partners:{Q9UJ98;P63279;Q9UHC1;P11388;Q9BX26;Q7Z5K2;Q9NQS7;P40692}

4022 Pathogen[ P03346] interacts with 10 human

partners:{Q7Z5K2;P11388;Q9BX26;P63279;Q9UHC1;Q9UJ98;Q9NQS7;Q6PIF2;Q8N0S2;Q92791}

4023 Pathogen[ Q85601] interacts with 9 human

partners:{Q9NQS7;Q9BX26;P63279;Q7Z5K2;Q9UJ98;P11388;Q6PIF2;Q9UHC1;P40692}

4024 Pathogen[ P14079] interacts with 12 human

partners:{O43196;P11388;P63279;Q9BXU0;P40692;Q9UHC1;Q6PIF2;Q9UJ98;Q92791;Q9BX26;Q9NQS7;Q7Z5K2}

4025 Pathogen[ P03383] interacts with 6 human

partners:{Q9NQS7;Q9UJ98;Q9UHC1;P63279;Q7Z5K2;Q9BX26}

4026 Pathogen[ P03410] interacts with 13 human

partners:{P40692;Q9BXU0;Q7Z5K2;Q92791;Q9BX26;Q9UJ98;O43196;P11388;P63279;Q6PIF2;Q9UHC1;Q8N0S2;Q9NQS7}

4027 Pathogen[ P14075] interacts with 6 human

partners:{Q9NQS7;Q9BX26;P63279;Q9UJ98;Q9UHC1;Q7Z5K2}

4028 Pathogen[ P0C206] interacts with 11 human

partners:{P40692;Q7Z5K2;Q92791;Q9UHC1;Q9UJ98;Q9BX26;Q8N0S2;Q9BXU0;P11388;Q9NQS7;Q6PIF2}

4029 Pathogen[ P03363] interacts with 8 human

partners:{Q9UJ98;Q9UHC1;Q92791;Q6PIF2;Q9NQS7;P63279;Q7Z5K2;Q9BX26}

4030 [Cluster 367]GO:0031093+C cellular\_component [name] platelet alpha granule lumen [def] "The volume enclosed by the membrane of the platelet alpha granule." [GOC

4031 Pathogen[ Q2Q067] interacts with 3 human partners:{P01009;P62328;P08697}

4032 Pathogen[ P0C214] interacts with 5 human

partners:{P08697;P05121;P10124;P10909;P62328}

4033 Pathogen[ P03346] interacts with 2 human partners:{P62328;P01009}

4034 Pathogen[ Q85601] interacts with 4 human partners:{P08697;P01009;P05121;P62328}

4035 Pathogen[ P14079] interacts with 3 human partners:{P10909;P62328;P10124}

4036 Pathogen[ P03383] interacts with 4 human partners:{P62328;P08697;P01009;P10124}

4037 Pathogen[ P03410] interacts with 6 human

partners:{P05121;P62328;P10124;P08697;P01009;P10909}

4038 Pathogen[ P14075] interacts with 4 human partners:{P62328;P01009;P08697;P10124}

4039 Pathogen[ P0C206] interacts with 6 human

partners:{P62328;P01009;P10909;P05121;P10124;P08697}

4040 Pathogen[ P03363] interacts with 1 human partners:{P62328}

4041 [Cluster 368]GO:0005663+C cellular\_component [name] DNA replication factor C complex [def] "A complex of five polypeptides in eukaryotes, and two in prokaryotes, that loads the DNA polymerase processivity factor proliferating cell nuclear antigen (PCNA) onto DNA, thereby permitting processive DNA synthesis catalyzed by DNA polymerase." [PMID

4042 Pathogen[ Q2Q067] interacts with 2 human partners:{P12004;P35251}

4043 Pathogen[ P0C214] interacts with 1 human partners:{P35251}

4044 Pathogen[ P03346] interacts with 5 human

partners:{P12004;P35250;P35249;P35251;P40937}

4045 Pathogen[ Q85601] interacts with 2 human partners:{P35251;P12004}

4046 Pathogen[ P14079] interacts with 4 human partners:{P40937;P35250;P35251;P12004}

4047 Pathogen[ P03383] interacts with 1 human partners:{P35251}

4048 Pathogen[ P03410] interacts with 4 human partners:{P35251;P35250;P40937;P12004}

4049 Pathogen[ P14075] interacts with 1 human partners:{P35251}

4050 Pathogen[ P0C206] interacts with 2 human partners:{P35251;P12004}

4051 Pathogen[ P03363] interacts with 1 human partners:{P35251}

4052 [Cluster 369]GO:0032797+C cellular\_component [name] SMN complex [def] "A protein complex that contains the survival motor neuron (SMN) protein and at least eight additional integral components, including the Gemin2-8 and Unrip proteins\_ the complex is found in the cytoplasm and in nuclear Gems, and is involved in spliceosomal snRNP assembly in the cytoplasm and in pre-mRNA splicing in the nucleus." [PMID

4053 Pathogen[ Q2Q067] interacts with 3 human partners:{P38935;Q9NWZ8;Q9H840}

4054 Pathogen[ P0C214] interacts with 3 human partners:{P38935;Q9H840;Q9NWZ8}

4055 Pathogen[ P03346] interacts with 3 human partners:{P38935;Q9NWZ8;Q9H840}

4056 Pathogen[ Q85601] interacts with 3 human partners:{P38935;Q9NWZ8;Q9H840}

4057 Pathogen[ P14079] interacts with 3 human partners:{Q9H840;Q9NWZ8;P38935}

4058 Pathogen[ P03383] interacts with 3 human partners:{Q9H840;P38935;Q9NWZ8}

4059 Pathogen[ P03410] interacts with 3 human partners:{Q9H840;P38935;Q9NWZ8}

4060 Pathogen[ P14075] interacts with 3 human partners:{P38935;Q9H840;Q9NWZ8}

4061 Pathogen[ P0C206] interacts with 3 human partners:{P38935;Q9H840;Q9NWZ8}

4062 Pathogen[ P03363] interacts with 3 human partners:{Q9NWX8;Q9H840;P38935}

4063 [Cluster 370]GO:0042581+C cellular\_component [name] specific granule [def] "Granule with a membranous, tubular internal structure, found primarily in mature neutrophil cells. Most are released into the extracellular fluid. Specific granules contain lactoferrin, lysozyme, vitamin B12 binding protein and elastase." [GOC

4064 Pathogen[ Q2Q067] interacts with 4 human partners:{P50995;O00186;Q00161;Q15833}

4065 Pathogen[ P0C214] interacts with 4 human partners:{Q15833;O00186;P50995;O00161}

4066 Pathogen[ P03346] interacts with 4 human partners:{Q15833;O00186;O00161;P50995}

4067 Pathogen[ Q85601] interacts with 4 human partners:{O00186;Q15833;P50995;O00161}

4068 Pathogen[ P14079] interacts with 3 human partners:{P50995;O00186;Q15833}

4069 Pathogen[ P03383] interacts with 3 human partners:{P50995;O00186;O00161}

4070 Pathogen[ P03410] interacts with 4 human partners:{Q15833;P50995;O00186;O00161}

4071 Pathogen[ P14075] interacts with 3 human partners:{O00186;P50995;O00161}

4072 Pathogen[ P0C206] interacts with 4 human partners:{P50995;O00161;Q15833;O00186}

4073 Pathogen[ P03363] interacts with 4 human partners:{P50995;O00186;O00161;Q15833}

4074 [Cluster 371]GO:0060076+C cellular\_component [name] excitatory synapse [def] "A synapse in which an action potential in the presynaptic cell increases the probability of an action potential occurring in the postsynaptic cell." [GOC

4075 Pathogen[ Q2Q067] interacts with 1 human partners:{P78352}

4076 Pathogen[ P0C214] interacts with 1 human partners:{P78352}

4077 Pathogen[ P03346] interacts with 1 human partners:{P78352}

4078 Pathogen[ Q85601] interacts with 1 human partners:{P78352}

4079 Pathogen[ P14079] interacts with 1 human partners:{P61158}

4080 Pathogen[ P03383] interacts with 1 human partners:{P78352}

4081 Pathogen[ P03410] interacts with 1 human partners:{P78352}

4082 Pathogen[ P14075] interacts with 1 human partners:{P78352}

4083 Pathogen[ P0C206] interacts with 1 human partners:{P78352}

4084 Pathogen[ P03363] interacts with 1 human partners:{P78352}

4085 [Cluster 372]GO:0000214+C cellular\_component [name] tRNA-intron endonuclease complex [def] "A protein complex that catalyzes the endonucleolytic cleavage of pre-tRNA, producing 5'-hydroxyl and 2',3'-cyclic phosphate termini, and specifically removing the intron." [EC

4086 Pathogen[ Q2Q067] interacts with 2 human partners:{Q8NCE0;Q9BSV6}

4087 Pathogen[ P0C214] interacts with 2 human partners:{Q9BSV6;Q8NCE0}

4088 Pathogen[ P03346] interacts with 2 human partners:{Q9BSV6;Q8NCE0}

4089 Pathogen[ Q85601] interacts with 2 human partners:{Q9BSV6;Q8NCE0}

4090 Pathogen[ P14079] interacts with 2 human partners:{Q9BSV6;Q8NCE0}

4091 Pathogen[ P03383] interacts with 2 human partners:{Q8NCE0;Q9BSV6}

4092 Pathogen[ P03410] interacts with 2 human partners:{Q9BSV6;Q8NCE0}

4093 Pathogen[ P14075] interacts with 2 human partners:{Q9BSV6;Q8NCE0}

4094 Pathogen[ P0C206] interacts with 2 human partners:{Q9BSV6;Q8NCE0}

4095 Pathogen[ P03363] interacts with 2 human partners:{Q9BSV6;Q8NCE0}

4096 [Cluster 373]GO:0005887+C cellular\_component [name] integral to plasma membrane [def] "Penetrating at least one phospholipid bilayer of a plasma membrane. May also refer to the state of being buried in the bilayer with no exposure outside the bilayer." [GOC

4097 Pathogen[ Q2Q067] interacts with 9 human partners:{P52272;P14373;O75323;O15162;O76095;Q16186;P35232;P14672;Q12816}

4098 Pathogen[ P0C214] interacts with 10 human partners:{Q16186;Q12816;P52272;P11168;O15162;P14373;P35232;P14672;Q7L5Y9;O75323}

4099 Pathogen[ P03346] interacts with 15 human partners:{Q9Y2B0;Q8NBJ4;P14373;P17152;Q15942;Q12816;Q9Y3P8;O75323;P52272;P35232;Q16186;O76095;P14672;Q9NP85;O15162}

4100 Pathogen[ Q85601] interacts with 11 human partners:{P11168;P14373;Q7L5Y9;Q15942;Q12816;O75323;O76095;P35232;O15162;P14672;Q16186}

4101 Pathogen[ P14079] interacts with 44 human partners:{Q16655;Q9H295;O15162;Q14242;P14373;P17152;Q9NWF4;O75781;Q92542;Q08722;Q9NZ42;O76095;P14672;O00400;Q16585;Q16186;Q92902;O43813;Q12816;P31358;P35232;O60895;Q9NP85;Q7L5Y9;Q14444;O96005;O75323;Q8NBJ4;P30408;Q9UN42;Q12912;P55808;Q9HAB3;Q8WZ55;Q8WU20;O14836;P15941;Q9Y2B0;Q96FX8;Q6PIZ9;Q9NQ40;Q9Y2B1;Q9Y3P8;Q15942}

4102 Pathogen[ P03383] interacts with 10 human partners:{O75323;O15162;P11168;Q12816;P35232;P17152;O76095;P14672;Q16186;Q9Y3P8}

4103 Pathogen[ P03410] interacts with 47 human partners:{O75781;Q8WZ55;O60896;Q6PIZ9;O60895;O96005;Q92902;P15941;Q14242;Q16655;O00400;P05141;Q9HBL7;P11168;Q9HAB3;P31358;Q9Y2B1;Q9NQ40;Q9NP85;Q16617;Q16585;Q9NZ42;O15162;Q13336;Q9Y3P8;Q96FX8;O75323;Q15942;O14836;Q08722;Q9NZG7;Q12912;Q9NWF4;Q9UN42;P52272;Q8NBJ4;Q92542;Q16186;Q12816;O76095;P17152;Q8WU20;Q9Y2B0;P27105;P55808;P35232;Q7L5Y9}

4104 Pathogen[ P14075] interacts with 15 human partners:{Q8NBJ4;Q96FX8;O75323;Q16186;O76095;O15162;Q12816;Q7L5Y9;P35232;P17152;Q16655;Q9Y3P8;P11168;P14672;P55808}

4105 Pathogen[ P0C206] interacts with 22 human partners:{Q16655;Q9NZ42;Q16186;Q96FX8;Q92542;Q8NBJ4;P11168;Q9Y3P8;Q7L5Y9;Q8WU20;P35232;Q15942;Q12816;P17152;O15162;P14672;Q9UN42;Q12912;P14373;Q9NP85;O75323;O76095}

4106 Pathogen[ P03363] interacts with 11 human partners:{Q9Y3P8;Q16186;P14373;P52272;Q92902;O75323;O76095;P14672;P35232;Q15942;Q12816}

4107 [Cluster 374]GO:0005741+C cellular\_component [name] mitochondrial outer membrane [def]  
 "The outer, i.e. cytoplasm-facing, lipid bilayer of the mitochondrial envelope." [GOC

4108 Pathogen[ Q2Q067] interacts with 21 human  
 partners:{Q96TC7;P55957;Q9BXH1;Q96B49;P19367;O60238;Q13794;Q14790;Q92558;P32189;Q15388;Q5HYI7;Q9GZY8;P36873;Q96LC9;Q9HAP2;Q00005;Q12983;Q9P0U1;Q9BXF6;Q8TC71}

4109 Pathogen[ P0C214] interacts with 31 human  
 partners:{Q14410;Q14409;Q15388;Q00005;Q13505;Q92934;Q96LC9;Q9Y512;P55957;P32189;Q96TC7;Q8WXG1;Q13057;Q13794;Q9BXH1;Q8TDB4;Q9BUK6;P19367;Q9BXF6;Q12983;Q92558;O60238;P36873;Q86WV6;Q96B49;Q9P0U1;Q8TC71;Q5HYI7;Q9GZY8;Q9HAP2;Q14790}

4110 Pathogen[ P03346] interacts with 31 human  
 partners:{Q00005;Q9NS69;Q6P1Q0;Q96LC9;Q8TC71;O60238;Q9BUK6;P55957;Q9P0U1;P19367;Q96C03;Q96TC7;Q12983;Q8TDB4;Q9Y371;Q86UT6;Q9Y512;P36873;Q92558;Q9HAP2;Q96B49;Q8N0X7;Q07820;Q14790;Q15388;P32189;Q9BXF6;Q5HYI7;Q9BXH1;Q9GZY8;Q13794}

4111 Pathogen[ Q85601] interacts with 24 human  
 partners:{Q86WV6;Q96LC9;Q9BXH1;Q15388;Q92558;Q00005;Q14790;Q8TDB4;P32189;Q9Y512;Q9BXF6;P36873;P55957;Q9HAP2;Q8N0X7;Q12983;Q9BUK6;Q5HYI7;Q96TC7;Q13505;O60238;Q9GZY8;Q13794;P19367}

4112 Pathogen[ P14079] interacts with 47 human  
 partners:{O75324;Q8N4H5;Q5HYI7;F7VJQ1;Q13505;P36873;Q92558;Q14410;Q9P0U1;Q9NZ45;Q9BUK6;Q96B49;P32189;Q6P1Q0;Q9HAP2;Q9Y371;Q14409;Q9NS69;Q9BXH1;Q7Z434;Q15388;O75431;Q8WY22;Q14790;Q00005;Q9BXF6;Q92934;Q86WV6;Q13057;Q13794;Q8IVP5;Q9Y512;Q12983;Q8N0X7;P10620;Q8TDB4;Q86UT6;Q96LC9;Q9GZY8;O60238;Q96TC7;Q96C03;Q8TC71;P55957;Q7Z5L4;Q8WXG1;P40305}

4113 Pathogen[ P03383] interacts with 23 human  
 partners:{Q96LC9;Q96TC7;Q8TDB4;P19367;Q00005;P55957;Q12983;Q92558;Q96B49;P36873;O60238;Q15388;Q9BXF6;Q5HYI7;Q9P0U1;Q8TC71;P32189;Q9HAP2;Q96C03;Q13794;Q9BXH1;Q9GZY8;Q13505}

4114 Pathogen[ P03410] interacts with 46 human  
 partners:{Q8N4H5;Q96TC7;Q9Y512;Q8N0X7;Q96B49;Q12983;Q15388;Q9GZY8;Q13057;Q9BXH1;Q8WY22;Q13505;Q96LC9;Q14410;Q6P1Q0;Q92558;O75324;Q9NQ6;Q92934;Q9NS69;Q13794;Q8WXG1;Q7Z434;P55957;Q9BUK6;Q86UT6;Q5HYI7;Q9BXF6;Q9Y371;Q8TC71;P36873;Q14409;F7VJQ1;Q9HAP2;Q00005;Q86WV6;Q9P0U1;P32189;Q96C03;Q8TDB4;Q8IVP5;P40305;Q9NZ45;Q96HS1;O60238;O75431}

4115 Pathogen[ P14075] interacts with 29 human  
 partners:{Q9P0U1;Q13505;Q12983;Q00005;P55957;Q9HAP2;Q96B49;Q96C03;Q15388;P32189;Q96TC7;F7VJQ1;P19367;Q9GZY8;Q96LC9;Q13057;P36873;Q5HYI7;Q9Y512;Q9BXH1;O60238;Q13794;Q8TC71;Q8TDB4;Q9BXF6;Q92558;P40305;Q8WY22;Q9NS69}

4116 Pathogen[ P0C206] interacts with 37 human  
 partners:{Q96TC7;Q8N0X7;P40305;Q8TC71;Q9BXF6;Q96B49;Q13057;Q6P1Q0;Q9BUK6;Q5HYI7;Q86WV6;Q9BXH1;P19367;P32189;Q96LC9;Q9Y512;Q92934;O60238;Q12983;Q9NS69;Q9HAP2;F7VJQ1;Q9P0U1;Q14790;Q92558;Q13505;Q15388;Q9GZY8;Q8WY22;P36873;Q8WXG1;Q00005;Q8N4H5;Q96C03;P55957;Q13794;Q8TDB4}

4117 Pathogen[ P03363] interacts with 21 human  
 partners:{P55957;P36873;Q96LC9;Q13794;Q00005;Q15388;Q8N0X7;Q92558;Q9HAP2;Q96TC7;Q8TC71;Q9P0U1;Q96C03;Q9Y512;Q9BXF6;Q5HYI7;Q07820;Q9BXH1;Q9NS69;O60238;Q9GZY8}

4118 [Cluster 375]GO:0005798+C cellular\_component [name] Golgi-associated vesicle [def]  
 "Any vesicle associated with the Golgi complex and involved in mediating transport within the Golgi or between the Golgi and other parts of the cell." [GOC

4119 Pathogen[ Q2Q067] interacts with 7 human  
 partners:{Q9UBF2;Q9H9H5;Q9UKJ5;O75843;P53618;Q9Y678;P49754}

4120 Pathogen[ P0C214] interacts with 7 human  
 partners:{P49754;Q9UKJ5;P53618;O75843;Q9UBF2;Q9H9H5;Q9Y678}

4121 Pathogen[ P03346] interacts with 7 human  
 partners:{P49754;Q9Y678;P53618;Q9UKJ5;O75843;Q9H9H5;Q9UBF2}

4122 Pathogen[ Q85601] interacts with 7 human  
 partners:{O75843;P49754;Q9H9H5;Q9UBF2;Q9Y678;Q9UKJ5;P53618}

4123 Pathogen[ P14079] interacts with 6 human  
 partners:{Q9UKJ5;Q9Y678;Q9H9H5;O75843;Q9UBF2;P49754}

4124 Pathogen[ P03383] interacts with 7 human  
 partners:{P53618;Q9Y678;P49754;Q9H9H5;O75843;Q9UBF2;Q9UKJ5}

4125 Pathogen[ P03410] interacts with 7 human  
 partners:{O75843;Q9H9H5;Q9Y678;Q9UKJ5;P53618;P49754;Q9UBF2}

4126 Pathogen[ P14075] interacts with 7 human  
 partners:{Q9UBF2;Q9H9H5;P49754;P53618;Q9Y678;O75843;Q9UKJ5}

4127 Pathogen[ P0C206] interacts with 7 human  
 partners:{Q9Y678;P53618;P49754;Q9UKJ5;Q9UBF2;O75843;Q9H9H5}

4128 Pathogen[ P03363] interacts with 7 human  
 partners:{P49754;Q9Y678;P53618;Q9UKJ5;Q9UBF2;O75843;Q9H9H5}

4129 [Cluster 376]GO:0032993+C cellular\_component [name] protein-DNA complex [def] "A macromolecular complex containing both protein and DNA molecules." [GOC

4130 Pathogen[ Q2Q067] interacts with 2 human partners:{P08047;O15370}

4131 Pathogen[ P0C214] interacts with 2 human partners:{O15370;P08047}

4132 Pathogen[ P03346] interacts with 3 human partners:{O15370;P31270;P08047}

4133 Pathogen[ Q85601] interacts with 2 human partners:{P08047;O15370}

4134 Pathogen[ P14079] interacts with 1 human partners:{O15370}

4135 Pathogen[ P03383] interacts with 2 human partners:{P08047;O15370}

4136 Pathogen[ P03410] interacts with 2 human partners:{P08047;O15370}

4137 Pathogen[ P14075] interacts with 2 human partners:{O15370;P08047}



4138 Pathogen[ P0C206] interacts with 2 human partners:{P08047;O15370}

4139 Pathogen[ P03363] interacts with 2 human partners:{O15370;P08047}

4140 [Cluster 377]GO:0044424+C cellular\_component [name] intracellular part [def] "Any constituent part of the living contents of a cell\_ the matter contained within (but not including) the plasma membrane, usually taken to exclude large vacuoles and masses of secretory or ingested material. In eukaryotes it includes the nucleus and cytoplasm." [GOC]

4141 Pathogen[ Q2Q067] interacts with 3 human partners:{Q13562;Q9Y4Z2;O43918}

4142 Pathogen[ P0C214] interacts with 1 human partners:{O43918}

4143 Pathogen[ P03346] interacts with 6 human partners:{Q9Y4Z2;O43918;P78426;O95096;Q13562;P49335}

4144 Pathogen[ Q85601] interacts with 3 human partners:{Q9Y4Z2;Q13562;O43918}

4145 Pathogen[ P14079] interacts with 1 human partners:{O43918}

4146 Pathogen[ P03383] interacts with 1 human partners:{O43918}

4147 Pathogen[ P03410] interacts with 1 human partners:{O43918}

4148 Pathogen[ P14075] interacts with 1 human partners:{O43918}

4149 Pathogen[ P0C206] interacts with 3 human partners:{Q9Y4Z2;O43918;Q13562}

4150 Pathogen[ P03363] interacts with 3 human partners:{Q9Y4Z2;P49335;O43918}

4151 [Cluster 378]GO:0014704+C cellular\_component [name] intercalated disc [def] "A complex cell-cell junction at which myofibrils terminate in cardiomyocytes\_ mediates mechanical and electrochemical integration between individual cardiomyocytes. The intercalated disc contains regions of tight mechanical attachment (fasciae adherentes and desmosomes) and electrical coupling (gap junctions) between adjacent cells." [GOC]

4152 Pathogen[ Q2Q067] interacts with 3 human partners:{P15924;Q9HD47;Q04917}

4153 Pathogen[ P0C214] interacts with 5 human partners:{Q04917;P15924;Q15124;P12882;Q9HD47}

4154 Pathogen[ P03346] interacts with 3 human partners:{P15924;Q9HD47;Q04917}

4155 Pathogen[ Q85601] interacts with 5 human partners:{Q9HD47;Q04917;P15924;P12882;Q15124}

4156 Pathogen[ P14079] interacts with 6 human partners:{P15924;Q15124;Q04917;P08758;Q702N8;Q9HD47}

4157 Pathogen[ P03383] interacts with 2 human partners:{P15924;Q9HD47}

4158 Pathogen[ P03410] interacts with 6 human partners:{P15924;Q702N8;Q04917;Q9HD47;Q15124;P12882}

4159 Pathogen[ P14075] interacts with 2 human partners:{Q9HD47;P15924}

4160 Pathogen[ P0C206] interacts with 5 human partners:{Q04917;Q15124;Q9HD47;P12882;P15924}

4161 Pathogen[ P03363] interacts with 3 human partners:{Q9HD47;P15924;Q04917}

4162 [Cluster 379]GO:0035145+C cellular\_component [name] exon-exon junction complex [def] "A multi-subunit complex deposited by the spliceosome upstream of messenger RNA exon-exon junctions. The exon-exon junction complex provides a binding platform for factors involved in mRNA export and nonsense-mediated mRNA decay." [PMID]

4163 Pathogen[ Q2Q067] interacts with 10 human partners:{Q92900;O15234;P61326;P38919;Q9BZI7;Q9BRP8;Q9HAU5;Q9BY77;Q9Y5S9;Q9H1J1}

4164 Pathogen[ P0C214] interacts with 11 human partners:{Q9BY77;Q9BZI7;O15234;Q9BRP8;Q9Y5S9;Q92900;Q9HAU5;P61326;P38919;Q15287;Q9H1J1}

4165 Pathogen[ P03346] interacts with 11 human partners:{Q9Y5S9;Q9BZI7;O15234;P38919;Q9BY77;P61326;Q9HAU5;Q15287;Q9BRP8;Q92900;Q9H1J1}

4166 Pathogen[ Q85601] interacts with 11 human partners:{Q9BZI7;O15234;P61326;Q15287;Q9BRP8;P38919;Q9BY77;Q9HAU5;Q92900;Q9Y5S9;Q9H1J1}

4167 Pathogen[ P14079] interacts with 10 human partners:{Q15287;Q9H1J1;Q9Y5S9;Q9BY77;P61326;Q9BZI7;Q9BRP8;Q9HAU5;Q92900;O15234}

4168 Pathogen[ P03383] interacts with 11 human partners:{O15234;Q15287;Q9Y5S9;P61326;P38919;Q9HAU5;Q9BY77;Q92900;Q9BRP8;Q9BZI7;Q9H1J1}

4169 Pathogen[ P03410] interacts with 11 human partners:{P61326;O15234;Q92900;Q15287;Q9Y5S9;Q9HAU5;Q9H1J1;Q9BZI7;P38919;Q9BY77;Q9BRP8}

4170 Pathogen[ P14075] interacts with 11 human partners:{O15234;Q92900;Q9BRP8;P61326;Q15287;Q9HAU5;Q9Y5S9;P38919;Q9BY77;Q9BZI7;Q9H1J1}

4171 Pathogen[ P0C206] interacts with 11 human partners:{Q15287;Q9BZI7;P61326;Q9BY77;O15234;Q9HAU5;Q92900;P38919;Q9Y5S9;Q9BRP8;Q9H1J1}

4172 Pathogen[ P03363] interacts with 11 human partners:{P38919;Q92900;Q9BRP8;P61326;Q15287;Q9BY77;Q9HAU5;Q9BZI7;Q9Y5S9;Q9H1J1;O15234}

4173 [Cluster 380]GO:0005828+C cellular\_component [name] kinetochore microtubule [def] "Any of the spindle microtubules that attach to the kinetochores of chromosomes by their plus ends, and maneuver the chromosomes during mitotic or meiotic chromosome segregation." [ISBN]

4174 Pathogen[ Q2Q067] interacts with 4 human partners:{Q7Z460;O43264;P50748;O75122}

4175 Pathogen[ P0C214] interacts with 4 human partners:{O43264;P50748;O75122;Q7Z460}

4176 Pathogen[ P03346] interacts with 4 human partners: {O43264;O75122;P50748;Q7Z460}

4177 Pathogen[ Q85601] interacts with 4 human partners: {O43264;O75122;P50748;Q7Z460}

4178 Pathogen[ P14079] interacts with 4 human partners: {Q7Z460;O43264;P50748;O75122}

4179 Pathogen[ P03383] interacts with 3 human partners: {Q7Z460;O43264;P50748}

4180 Pathogen[ P03410] interacts with 4 human partners: {Q7Z460;P50748;O43264;O75122}

4181 Pathogen[ P14075] interacts with 3 human partners: {Q7Z460;P50748;O43264}

4182 Pathogen[ P0C206] interacts with 4 human partners: {O75122;Q7Z460;P50748;O43264}

4183 Pathogen[ P03363] interacts with 3 human partners: {O43264;P50748;Q7Z460}

4184 [Cluster 381]GO:0045098+C cellular\_component [name] type III intermediate filament [def] "A type of intermediate filament, typically made up of one or more of the proteins vimentin, desmin, glial fibrillary acidic protein (GFAP), and peripherin. Unlike the keratins, the type III proteins can form both homo- and heteropolymeric IF filaments." [ISBN

4185 Pathogen[ Q2Q067] interacts with 2 human partners: {P41219;P17661}

4186 Pathogen[ P0C214] interacts with 3 human partners: {O95045;P41219;P17661}

4187 Pathogen[ P03346] interacts with 2 human partners: {P17661;P41219}

4188 Pathogen[ Q85601] interacts with 3 human partners: {P17661;O95045;P41219}

4189 Pathogen[ P14079] interacts with 3 human partners: {P41219;O95045;P17661}

4190 Pathogen[ P03383] interacts with 2 human partners: {P17661;P41219}

4191 Pathogen[ P03410] interacts with 3 human partners: {O95045;P17661;P41219}

4192 Pathogen[ P14075] interacts with 3 human partners: {P17661;O95045;P41219}

4193 Pathogen[ P0C206] interacts with 3 human partners: {P17661;P41219;O95045}

4194 Pathogen[ P03363] interacts with 2 human partners: {P17661;P41219}

4195 [Cluster 382]GO:0005685+C cellular\_component [name] U1 snRNP [def] "A ribonucleoprotein complex that contains small nuclear RNA U1." [GOC

4196 Pathogen[ Q2Q067] interacts with 1 human partners: {P09234}

4197 Pathogen[ P0C214] interacts with 1 human partners: {P09234}

4198 Pathogen[ P03346] interacts with 1 human partners: {P09234}

4199 Pathogen[ Q85601] interacts with 1 human partners: {P09234}

4200 Pathogen[ P14079] interacts with 1 human partners: {P09234}

4201 Pathogen[ P03383] interacts with 1 human partners: {P09234}

4202 Pathogen[ P03410] interacts with 1 human partners: {P09234}

4203 Pathogen[ P14075] interacts with 1 human partners: {P09234}

4204 Pathogen[ P0C206] interacts with 1 human partners: {P09234}

4205 Pathogen[ P03363] interacts with 1 human partners: {P09234}

4206 [Cluster 383]GO:0005654+C cellular\_component [name] nucleoplasm [def] "That part of the nuclear content other than the chromosomes or the nucleolus." [GOC

4207 Pathogen[ Q2Q067] interacts with 697 human partners: {Q13562;Q9Y253;Q14974;O43290;Q13573;O95602;P83369;Q15054;Q15573;Q9Y6X3;Q8NHY2;P33240;Q99460;P27540;P17544;P52434;Q92750;P01100;P83876;Q92585;Q8N187;O95639;Q96FV9;Q04864;Q9NYP9;O75832;Q86U42;P48556;P54252;P18754;Q96H22;P02545;P07910;P31749;P52948;Q71F23;O15525;P40306;P50995;Q8IZL2;Q9Y333;Q9BVP2;Q9UPN9;Q9HAW0;Q9Y3C7;P55036;P10827;P20700;P20226;Q04726;Q96HR3;Q9HAU4;P24385;P55769;Q16594;Q9Y266;O75925;P63104;P39687;Q13033;P55265;P49790;Q99638;Q86WQ0;Q13487;Q92664;Q9GZL7;Q12888;P52272;Q92889;Q14980;O00267;P06400;Q9HB96;P61326;Q9NPJ6;O75494;O00231;P14866;O00233;Q9UJX3;Q9UJX5;P27694;P49959;Q15459;Q01094;Q8WW38;Q13427;Q08999;P40763;Q9NXV6;Q9NYB0;Q13889;Q13352;P01106;Q6NS38;Q16666;P46937;Q16533;Q9Y3T9;P38432;P67809;O95402;Q13485;P10589;P62837;P51665;Q9P0U4;Q9Y2L1;P55795;Q01130;P13056;Q6IPU0;P62318;P62826;Q8IVN3;Q99741;Q96GY3;P62508;Q92797;Q15596;Q15554;P10828;Q15562;P15880;P28072;P61024;O95243;P18847;P51531;Q9NPG3;P18887;Q8N684;Q9Y5Q8;O00762;P13349;O96004;Q92985;O95400;O43390;Q9H211;Q9NRR4;Q9BRG1;P33316;Q13435;Q01105;P23490;P19388;O00273;O75081;Q5SXM2;P54274;Q96DI7;P52435;O14929;Q9BSI4;O43172;P49116;Q9UIF7;Q7Z2E3;Q04206;P11387;Q8WYP5;Q9BXL5;Q9H944;Q9H3R5;Q9HAN9;P62140;Q8WTR7;Q13547;Q6P126;Q9BTT4;P14373;Q14103;O60506;Q9NZI5;Q93074;Q9UBU9;Q5TKA1;P35244;P49450;P18850;P32780;Q99594;A6H8Y1;P14316;Q9UBU7;O15379;P18615;Q9UKN8;Q14192;Q6NZI2;Q96EZ8;Q9UNA4;P06748;P30876;O14757;P19387;Q9UER7;P15976;Q9BWX5;O75586;Q66LE6;Q15542;Q6MZIP7;Q13200;Q96ST3;P61218;Q92759;P35638;O75448;Q92945;P54727;P25787;Q04727;O60244;P52657;Q6ZNA4;Q8IX12;Q06323;O75683;Q7Z3B4;P42704;O75362;Q9UBZ9;Q86YC2;O75971;P49005;Q13415;Q16531;O00541;Q07955;Q9BWJ5;Q9NYG5;P08047;P11473;Q13156;Q00978;P30304;Q9BZI7;O75182;Q8NDT2;Q13342;Q16629;Q9H1A4;Q9H9Y6;Q9Y262;P12270;P51965;O60563;Q8WYQ5;O15084;Q9NVI1;Q00597;Q8N726;O75531;P15172;Q06609;O94906;P28702;O43148;Q15561;P31943;P11388;P28065;Q12962;Q9NZP6;Q14669;Q09028;O14818;P61077;P22674;P14635;B2RXF5;Q8N6T7;P63165;O15304;Q9BRP8;Q10570;Q9Y248;Q12996;Q9ULK4;P27695;P62314;P08621;P61978;Q9UKL0;P29084;Q13112;Q9UJX2;Q14137;P12004;O43524;Q14181;O43502;Q96G25;P06746;Q9BUI4;Q92994;Q14691;P38159;P52747;Q9Y3A5;Q9Y5P8;P62487;Q9UHI6;P78317;Q96CJ1;P23769;P62304;P29372;P54253;O14980;P55199;P84103;Q8NB91;Q9BYK8;Q8IYB3;P30307;Q05048;Q14186;Q92674;O75717;O75582;O94913;O15131;Q9UM13;Q86WX3;P40337;Q14498;P05787;Q9BTP7;Q969S8;Q96F24;Q9Y6Y0;Q86V81;Q8IWX8;Q96BD5;Q9ULX9;P51948;P31350;Q92831;P60900;Q9UL46;Q14653;O60934;P61289;O43482;O96017;Q15370;O60832;P12755;Q9UBD5;Q14978;P84022;P55212;P10914;P15927;A9QM74;Q06787;Q9NPD8;O00716;Q12834;P36873;P51668;P57081;P28347;Q92541;Q05519;Q9BVC3;P26368;Q92769;P28062;Q96D46;O00255;O15105;Q06330;O75496;Q6P2Q9;Q7LG56;P14859;Q15543;Q9UHV7;P56282;P24864;Q9GZV5;P49848;Q9NPI8;Q9H116;P50750;Q9UNM6;Q9Y2N7;Q96DE0;Q9Y5B0;Q9UDY2;Q15544;Q8WXE1;Q96AP0;P25788;Q96Q89;Q8WXD5;Q08211;O00268;P09874;P60228;Q6P2C8;Q13426;P08579;Q9HCU8;P62136;Q96PU5;O75419;Q13616;Q16254;P52597;Q92530;Q9UKX7;Q06K0P9;Q96Q83;P50613;O15198;O14746;P23246;Q9NV6;P14678;Q9Y5S9;Q15327;Q15329;P25786;Q01081;O75533;Q9GZN2;Q96RS0;Q8TFQ6;Q16514;P78396;P82970;Q16621;Q8IX07;O60907;Q9P2I0;P10599;O15527;O00505;Q03468;P57678;Q8NHZ8;Q9P0J0;P13984;P55055;Q13243;P09661;P38936;P12956;Q15796;O75475;P20248;Q9NVU0;Q15369;Q02241;

060216;P39748;Q15366;Q96KS0;O96020;Q16401;Q6WBX8;P62875;Q9HAV4;Q3L8U1;Q04725;P24928;P19338;Q9H6W3;Q96T23;O43809;Q9UKV3;O00232;Q15029;Q13309;Q13216;Q15466;P19838;O15318;P43351;O60675;P28749;Q8NG31;P09012;O75943;P78549;Q15583;P23193;Q9UM11;Q7L590;Q9Y383;P17861;Q9H6Z9;Q9UJX4;O43913;Q09161;P28074;P25789;Q15572;P52630;O00629;Q9H501;P15336;Q9Y2X0;Q8IXH7;Q13526;P12757;P35813;Q9BUJ2;Q9UKT4;Q9H3P2;P0CG47;Q12983;Q13569;Q7RTV0;P08235;Q14686;P04818;Q9BZK7;Q9UI95;Q9Y5N6;Q969H0;Q12789;Q13416;Q9UKN5;P52292;P52298;P52655;Q9Y618;Q14209;O95619;P20618;P45984;P42771;P17096;Q04724;P35269;Q15427;P11474;Q12824;O43513;Q0VG06;Q00653;Q8N488;P0CG48;P29083;P25205;P35251;Q86YI8;Q14676;P62316;P49336;O60583;P24863;Q9NP71;P16455;Q9UKF6;P28070;Q01831;Q14493;Q92793;Q01860;P18848;P28066;Q14683;Q8WVM7;Q01826;P63272;P21675;P30305;P53803;Q9H2F5;Q15007;Q99436;P24941;Q96MU7;Q96RN5;Q9BQA5;P13010;Q14241;O43592;Q9BU64;Q9BRT9;O60508;Q9UJX6;P62306;P35232;Q9H840;Q15652;P62841;Q8NE71;Q9Y5B9;P62987;Q92466;Q53T94;O43242;P45973;Q14188;Q93075;Q16576;Q6STE5;P30260;P49721;P11802;P23497;Q71SY5;Q9Y535;P46527;P49720;P15923;P35637;Q99717;Q8NCD3;P22626;Q8N3U4;O15287;O75376;Q13042;Q9UK39;Q16637;Q9Y468;Q8WXF1;Q99814;P49711;P35658;Q9Y250;P83916;P05423;Q9NVV9;P17480;Q9HAW4;P62308;Q00987;Q9UMS4;O14595;O14893;Q96JK9;Q96QD9;O14802;Q66K89;Q8IYD8;P52294;Q12874;P42224;O60671;O15360;P22736;Q86X55;P63208;Q0839;Q13617;Q15361;Q9HCS7;Q15759;Q9NYV6;Q16829;Q15797;Q9H1D9;P23409;P62877;Q9P0W2;Q13501;Q13105;Q9Y2S0;Q53HV7;Q9H814;Q02078;Q9BXP5;Q6P0N0;Q13888;Q969L4;O15160;Q9H2G4;O60921;P18146;P28715;Q52LA3;Q15428;Q9NW38;Q92966;Q9BXW9;O76075;P51946;Q8WX92;Q00403;Q08945;P33076;P23025;P51003;Q14397;O75691;P62979}

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Pathogen[ POC214] interacts with 698 human partners: {P43351;Q12996;Q9BZI7;O75683;O00268;Q9UJX6;O95243;P51665;P60228;P18850;O15198;Q16637;O15287;Q96FV9;Q92585;Q9Y3T9;Q15007;P20248;P51946;P24863;Q8WX92;Q9UKN5;Q96CJ1;Q13617;A9QM74;P26368;Q15327;A6H8Y1;P62316;Q16254;P25789;Q9HCS7;O75691;Q00653;P27695;P35813;Q00597;P83369;P38432;Q09161;Q8IX12;P15880;P55036;O14595;Q06609;P30307;Q04727;Q6P0N0;Q9HAU4;Q06787;Q13573;P04818;O43172;P11474;O14746;Q71SY5;P35637;Q13156;P31350;O94913;Q9Y5Q8;P62140;P28062;Q13547;Q9HAN9;P49959;Q12824;O00762;P38159;Q9UKF6;P12757;P30876;P28065;Q08999;Q9BRP8;P19838;Q92664;Q9Y262;O75925;Q8WXE1;Q02241;Q15573;Q9H9Y6;O75586;P15336;Q969S8;Q9BUI4;P52657;Q92889;P13010;Q8IZL2;P06746;O43913;P54253;P21675;O00159;P53803;P84103;Q15361;Q9NVU0;Q86V81;Q9BSI4;Q96F24;Q9Y5S9;P51003;P52655;P06748;O60508;Q6K0P9;P35269;Q15554;P50750;P26599;Q7L590;Q00987;O00267;P33316;P50613;O95400;P55212;Q13309;Q9H814;Q13112;Q9Y2L1;P33076;Q9Y2X0;P29084;P23025;Q9UM54;O14818;O60907;P13349;P14678;P83916;O75496;Q15029;O00541;Q16621;P62306;P01100;Q969L4;Q96D46;Q93074;P52435;P55265;P17275;Q92750;P11802;O75362;O14929;P67678;O43242;Q13526;Q53HV7;Q8WYP5;P23769;Q92793;Q9UJX5;Q96KS0;Q92797;P67809;P61024;Q9GZL7;P46937;Q86WX3;Q6PI26;Q13033;Q05048;Q9UBZ9;P63208;Q6P2Q9;P84022;P23246;Q9UKN8;P17096;Q9BWX5;Q8IWX8;Q9NZI5;Q9H1D9;P15172;Q15428;P46527;Q16533;Q9GZV5;Q9H501;P42704;P17544;Q96BD5;Q00403;Q96HR3;Q04206;Q9NVC6;Q3L8U1;Q6STE5;Q12962;Q66LE6;P05787;P42224;Q02386;P48556;Q9Y2S0;P28347;Q6NZI2;P10914;P61218;Q9HAV4;Q16666;Q13427;Q8NHY2;Q5SXM2;Q9UKX7;P40306;Q6IPU0;Q06330;P35251;P14635;Q15370;O00716;Q10570;Q8N726;Q6WBX8;P20700;P24388;Q04724;Q14676;Q9BTT4;P49005;Q8WXD5;Q9UBU7;Q13200;Q9UJX2;Q9Y468;Q9Y3D8;Q14686;Q9HAW4;O60244;Q00978;P62877;P62308;Q9Y266;Q9HCU8;Q9UI95;Q9H2F5;O43148;P08579;P38936;O43390;Q92541;Q16594;O00232;Q9Y5N6;Q15366;O15131;P05423;Q8N684;Q12789;P51965;Q01105;P78317;Q15542;O94906;Q9Y248;O95619;P25205;Q09028;P23490;Q9NZP6;Q9UMS4;P61077;Q07955;P49450;P18615;Q9Y250;Q9H944;Q9BYK8;Q9UK39;Q13216;Q14980;Q02078;Q9HCE7;Q13501;Q15561;O60921;P55795;Q9Y3C7;Q9Y333;Q99460;P13056;P52298;P28066;P28715;Q01094;O75832;Q8NCD3;Q9Y2N7;P18848;P00374;Q92966;P62487;O43482;O00273;Q96RN5;Q14566;P62314;P07910;Q14493;Q8IYB3;Q92674;O43809;Q8NE71;Q9HB96;P49790;Q96Q89;Q14186;P49116;Q92985;O14980;Q9H1A4;Q9H6Z9;P08621;Q13487;Q13426;P15923;Q6NS38;P52294;Q04726;P51948;Q8WXF1;Q9Y6Y0;Q14103;Q9NVV9;Q9UER7;O96017;Q14978;P49720;P63165;P49336;P28074;Q9P0W2;Q8N488;P17861;P55769;Q14137;Q9P0J0;P61326;Q8TEQ6;P18887;Q9BRG1;P0CG48;Q9UL46;O43513;Q9UNA4;Q9UKL0;P78396;Q9NYP9;Q92994;Q6MZP7;Q7Z2E3;P57081;Q13485;Q9H6W3;Q9UIF7;Q8NHZ8;Q15369;P35658;Q15572;P18847;Q92769;Q12834;O15105;P55199;O60583;Q13243;Q13352;O43592;Q15427;P63272;Q15544;P83876;Q14691;Q9P210;P49848;Q15329;P52597;Q8WW38;Q15652;Q9NVI1;P15927;P25788;O43502;P62136;P24941;P40337;Q05519;Q7RTV0;Q0VG06;P42574;P17480;Q16576;Q9BVC3;O75376;Q9UNM6;Q9ULX9;Q9BUJ2;Q15459;O00231;O60264;Q15796;P42771;Q9UH16;Q14192;O15318;O75717;P62318;O15525;P22674;Q99594;P35244;O15360;Q9NRR4;Q9Y5B9;Q06323;Q9NP71;P11388;P30305;O15379;P25786;Q01081;Q96JK9;O75533;Q96RS0;Q8N6T7;Q96DI7;O75475;Q16829;Q9NYV6;P33240;Q16514;O95251;Q9H211;P82970;Q13616;Q9NW08;Q8IX07;Q8WTP8;P12755;P23921;P62875;Q86YI8;P13984;P20226;Q93075;Q969H0;Q9H2G4;Q12874;P28072;Q14653;O00505;Q6P2C8;O75494;O75531;P54727;O75943;Q9UDY2;Q6ZNA4;Q14397;P32780;O95639;P16455;P62841;Q9H840;P11387;Q15287;P24928;Q86YC2;P52747;O75582;Q9UHV7;P62987;Q9NPI8;P62826;Q12983;O60671;O60832;P31943;O60563;P23497;Q9NXV6;P05412;P62304;Q14669;Q9NYB0;O00442;Q9H3R5;P49711;Q01826;O15160;Q9BXW9;P28749;P09012;Q14683;Q92831;O75419;Q9Y535;O75448;P18146;Q8N3U4;Q8WTR7;Q8N187;Q99436;O95602;Q8WVM7;Q8NG31;P24864;Q9UJX4;Q01831;Q96T23;Q15759;Q8IVN3;Q04725;P39748;O60506;P0CG47;P25787;Q99814;P36873;Q9BZK7;O14893;Q15054;Q96ST3;Q13416;P10599;Q9Y5B0;Q13888;Q9Y6X3;P09661;P45973;O43290;Q12888;Q9UJX3;P45984;P78549;Q99717;P29372;P52434;Q08945;Q8IXH7;Q04864;Q08211;P40763;O96004;P27540;P52292;P12270;P27694;Q8NDT2;O75971;Q71F23;Q9HAW0;Q9UKV3;Q13435;Q86X55;Q14974;Q00839;Q52LA3;P5TKA1;P35998;P60900;Q53T94;Q9H3P2;Q96MU7;Q9Y5P8;Q92945;Q14011;Q13342;Q9BQA5;P02545;P19387;Q96QD9;P22626;P10828;P23193;Q15596;Q15797;O00233;Q9UM11;P19388;O15527;Q15543;P51668;P16220;Q13569;P14373;O14757;P35232;Q92466;P55210;Q7LG56;Q15562;Q99638;Q96G25;Q9Y383;Q9ULK4;P51531;P62979;P52630;P30260;Q9Y3A5;Q86U42;Q96EZ8;P19338;P18754;Q96Q83;Q9BYG3;Q9Y618;P62508;P30304;P50995;Q9NPD8;P56282;Q9UPN9;Q15365;Q14498;Q8WYQ5;P39687;Q92530;P14859;Q9YZB4;Q9NYG5;Q16531;Q15008;Q15304;Q9Y253;Q14209;Q01860;O60216;Q86WQ0;Q66K89;Q9UBD5;Q8IYD8;P01106;Q9UM13;O95402;O60675;P14316;O76075;O75081;Q03468;O14802;Q14188;Q9NPI6;Q13105;P28070;P06400;Q92759;P08047;Q14966;Q9UKT4;P12956;O00255;P52948;Q16629;P31749;Q9BXP5;P54252;P14

866;Q9NQV7;P35638;P20618;P29083;Q15466;Q9BU64;Q96PU5;Q9UBU9;Q9NW38;P54274;O00629;P09874;P49721;Q9BVP2;Q99741;Q16401;P18846;Q9BTP7;O96020;O75182;Q96DE0;Q01130;P17980;Q13415;Q14181;O15084;Q9H116;Q13042;Q14241;Q9NPG3;Q9BRT9}

4209 Pathogen[ P03346] interacts with 771 human partners: {O60921;Q9NVU0;Q12888;Q06330;Q9BSI4;Q9NPG3;Q66LE6;Q9Y5S9;P62136;Q96FV9;O95400;Q969S8;Q9BZI7;P25787;Q96AP0;O75691;Q96ST3;Q9UPN9;P12004;Q9Y253;Q8NB91;Q15427;P05412;P51991;O95637;Q92585;Q96CJ1;Q96GY3;Q12874;Q15542;Q99828;Q16621;Q86U42;Q96MU7;P61978;P28070;Q15562;P46937;Q13487;Q13263;Q15370;O43172;P78396;P45984;Q02078;O00629;Q02386;Q16666;Q09161;P10827;P35813;P11473;P25789;P28715;P55036;Q8WXF1;Q15788;P45973;Q8IX12;Q9HAU4;Q15366;Q9NQV7;P52434;Q9HAV4;Q06787;O95402;P12270;P12956;O43290;Q9NVI1;P24385;Q9N PJ6;Q7L2Z9;O60907;Q9HCU8;Q06609;P18847;Q08170;Q8IYB3;Q9UDY2;Q96PU5;Q95Q8;O96017;Q8IX H7;P14373;Q9H116;P16220;P09651;Q08999;O75362;Q9UKL0;Q99460;Q9UM11;Q8N3U4;P06401;Q7RTV 0;P55265;P06748;Q13616;P12757;O75586;P14866;P15336;Q9BS16;Q9UL46;Q9P0W2;O75531;Q8N187 ;P35638;Q8WW38;P07148;P52747;P08235;P62304;P11388;P83876;Q15329;O43502;Q9UKX7;Q9UKF6 ;P28347;Q15554;O00541;P62987;O15379;P27694;P20700;Q14011;P28072;Q99594;Q92674;Q71SY5;P 48443;P06400;O75717;P25788;Q9Y5N6;Q14691;Q14149;P13349;P28074;Q15797;Q14188;Q9GZV5;P4 9721;Q96EZ8;O60563;Q9BW5;Q01105;Q9UNA4;P08579;P07992;Q8NH2;P55795;P17275;O96020;Q9U BD5;P54274;P49116;Q15466;P24863;P35244;Q8WXH0;P14316;Q4G0J3;O14818;P05423;Q6WBX8;P493 36;Q15007;P17861;Q8WYP5;Q9BRT9;O15360;P23769;Q9UBZ9;P35250;Q96HR3;Q15583;Q99436;O1530 4;P24941;Q13426;Q9GZL7;O75971;Q9UMS4;Q15573;Q6PI26;P14859;P30304;Q14498;Q16531;Q13156 ;Q9H814;O60506;P23246;Q13888;Q6M2P7;P56282;P15923;P0CG48;P05787;P15172;Q9H2G4;Q8WXD5 ;Q15796;O75475;Q9H3P2;P13010;Q16401;Q15327;Q93074;P53803;P23409;O14757;Q9H9Y6;Q04206;P 33076;Q9UBU7;P07910;P24864;Q0VG06;Q9Y383;Q8N684;P13056;P61218;Q9UM13;O00268;O60244;P2 8062;P08621;P15173;Q14209;Q13242;P18754;Q8WTR7;P31943;P10588;Q00839;O60832;Q12824;O43 482;P42574;Q9NYG5;O00505;Q13247;P27540;Q9UIF7;Q86WQ0;Q9BTT4;P49005;Q9NZI5;Q6P0N0;P193 38;Q99717;Q92831;Q99638;O15105;P26599;Q9BUJ2;Q92945;Q13526;Q16254;Q00978;P29084;Q0486 4;Q08211;P61024;P20618;O43316;P42771;P63272;Q9UI95;P35658;P52298;Q9HAN9;O00232;Q15652 ;O43390;P55212;Q9HCS7;Q16629;Q12983;P22626;Q01094;Q6NZI2;O94906;P51668;Q9BUQ8;Q9Y333 ;Q9UJX9;P17096;Q66K89;Q07955;P02545;Q01860;Q9NZP6;Q92750;O75182;P61077;Q13427;Q9BTP7;Q 08945;Q9NXV6;P62826;Q00987;Q12834;O15198;P30305;Q53T94;Q8NCD3;Q9UKV3;Q14980;P08047;Q9 BXP5;Q13889;P11802;P20226;Q05048;Q9H501;P18850;P17480;Q16637;P52756;Q9Y5P8;Q96G25;O75 943;Q15561;Q86W54;Q14103;O75832;Q8IVN3;Q9BWF3;Q9Y5B0;O15318;Q9UKN8;Q7Z333;O00233;O960 04;P62487;P01106;Q9UJX6;Q14566;O75448;P62877;P51843;P25205;Q9Y266;O43592;P19388;Q1449 3;O75925;P28702;P35637;Q9NP71;O60583;Q14186;P62318;P18848;Q53HV7;Q9HAW4;Q06710;P84022 ;O43148;Q14676;Q04726;Q9Y6Y0;Q86V81;O43513;O14980;Q14978;P31350;O60508;Q7LG56;Q8NDT2 ;Q96F24;P13984;P22736;P17706;Q9Y3C7;P51003;P60228;P15976;Q13033;O95096;Q9GZN2;O75643;P 31749;P67809;P14635;Q9P0U4;Q15596;Q03468;O00255;P83369;O15287;Q13042;P10914;Q86U44;P5 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;Q9H1A4;Q96Q83;Q9BU64;P62979;P28066;Q9UNM6;Q92994;O43809;P40337;Q6P2Q9;Q02241;Q96DI7 ;Q8WVM7;P33991;P78549;P43351;Q8WX92;P28749;P09012;P84103;Q92759;O95619;Q14397;Q9H944;Q 92797;O60934;Q8IWX8;Q9UK39;P18887;P62314;P55199;O15525;Q96BD5;O95602;P52272;Q92889;Q9 UJX4;Q15287;O76075;P21675;Q05519;P30876;P63104;Q15369;Q00597;P35269;Q9BXW9;Q15759;Q9N VC6;Q01130;P49450;Q9NYV6;P14678;P0CG47;Q96KS0;Q13569;Q9BZK7;Q9UGN5;Q04727;Q9UBU9;Q5TK A1;Q12789;O95243;Q13416;P62508;P10828;Q8NE71;P52292;P51858;Q14137;Q9NRR4;Q99593;O1508 4;P11474;P83916;P10599;Q8IYD8;P57678;P49790;Q72E3;P35232;Q13200;Q86X55;P48556;Q9P2I0 ;P55210;Q9BVC3;P23025;P19838;O60671;Q86YI8;P23497;Q13485;P35251;O14893;Q6IPU0;P24928 ;P62140;P38432;P23193;P27695;P51665;P54253;Q9NPI8;Q9BYK8;P38936;P29083;O94782;Q8NG31;Q 9BRP8;P18146;Q9Y2X0;Q13573;Q00403;Q13243;Q92793;Q92985;P39748;P51531;Q9P0J0;P38159;Q8 N488;P62841;Q969L4;Q9H6W3;Q92466;O00482;Q15029;P62316;Q06323;Q9NW38;Q3L8U1;Q13112;Q8N 726;O60675;Q9ULK4;Q01101;P30260;O75419;Q5SXM2;Q9Y618;O75593;Q13562;P46527;P52630;O155 27;Q9NYP9;Q9H3R5;Q92966;P40763;P35398;P40937;Q99741;O43524;P06746;Q969H0;Q7L590;P5265 5;Q92530;Q9H211;P52597;Q7Z3B4;Q93075;Q96H22;Q9NQ94;O75494;O43929;Q92664;O14595;Q9UKN5 ;Q13285;Q6K0P9;Q9NVV9;O60216;P01100;P62308;P51948;Q10570;O43242;Q12996;P22674;Q15544 ;O14802;O00716;P55294;P57081;P32780;Q96D46;O75081;Q9UHV7;Q96RN5;Q15393;P09661;Q52LA3;O 43913;Q01826;P55055;Q15365;P18615;Q71F23;A6H8Y1;P33240;O14929;Q9H6Z9;Q13352;P40306;Q9 Y2S0;P62875;Q15054;P19387;P30307;Q96JK9;O00273;Q9BVP2;Q8IZL2;Q9Y3A5;Q9Y262;P18846;Q00 653;O75496;P54252;Q14241;P11387;Q13501;Q9H840;Q15428;Q8WYQ5;Q9BQA5;Q9HAW0;Q14686;Q149 74;Q16594;P33316;Q15543;Q15572;P52948;Q13617;P10589}

4210 Pathogen[ Q85601] interacts with 702 human partners: {P43351;Q9UJX2;P51946;O95619;P01106;P18146;P52657;P28066;P17480;Q969S8;Q9BZI 7;Q9UNM6;O15198;Q9UPN9;P22674;O75182;P78317;P60900;Q9Y250;Q9Y2X0;P20700;Q14978;Q92585 ;Q96CJ1;Q15542;Q92664;O75496;O75971;Q52LA3;Q96MU7;P61978;O43913;Q13487;P36954;O15527 ;Q15370;Q9HCS7;Q9H2F5;P63104;Q02078;Q96JK9;O00629;Q16666;P09874;Q13309;P11473;O95602;P 55036;P83916;Q9P0J0;Q9H6Z9;O43502;P02545;O15315;P33076;Q9HAU4;Q9NQV7;Q9HAV4;P14373;O4 3316;O43148;Q7L590;Q9UJX6;P23025;P31749;O00541;P24385;P14316;Q9BTP7;P17096;Q9Y383;O43 390;Q02241;Q8IYB3;Q01831;O96017;Q9H1D9;O60563;Q9P0W2;Q9BW5;Q15466;Q86X55;Q08999;P159

76;Q969H0;Q8IYD8;P25787;Q7RTV0;Q8WXE1;Q92994;Q13243;P50750;O75691;P15172;Q04724;Q96BD5;P18887;Q9ULK4;Q9Y2N7;Q9NPG3;Q3L8U1;Q9BXW9;Q6STE5;Q05048;P61289;P62304;O95251;Q15329;Q8WW38;Q16531;Q01130;Q02386;Q15554;O60506;Q9UI95;Q9UBU9;P56282;Q86WX3;Q16621;P06400;Q06330;P05787;P25788;O60907;P13349;P39687;Q96T23;P50995;Q14103;Q14966;Q9Y535;Q15797;Q13888;P16455;Q01105;Q9BUI4;Q13112;Q9UKT4;Q13216;Q8N684;Q13573;Q9Y2Y1;Q9H116;P62877;Q9UHV7;Q15459;P40337;Q9BRG1;P35244;Q8NHZ8;P49336;Q15007;Q8WYP5;Q9UKN5;Q15015;Q01507;P40763;Q13426;P28702;Q14241;Q9UMS4;Q06787;O60583;Q6PT126;P14859;Q9UDY2;Q9Y468;P23769;Q13415;Q9NPI8;Q9H1A4;Q15573;Q9Y2Y4;P61326;Q9Y5N6;P22626;P62826;Q15287;Q9Y3A5;Q16829;Q9H3P2;Q9UER7;P12757;Q71F23;Q13616;P15880;P53803;Q14188;Q96G25;Q9NRR4;Q9Y2S0;P61218;Q9Y618;O00268;O94913;Q8IX12;P08621;P33316;Q8NG31;Q15583;Q969L4;Q96PU5;O95243;Q8WXF1;Q9GZV5;Q9UBU7;Q9Y248;Q9Y5B9;P18846;Q9UBD5;Q14669;Q99814;P49959;P27540;P0CG48;P49005;P30304;O75448;Q9HAW0;Q86V81;P19338;Q92831;Q9H3R5;Q9BUJ2;P55795;O75494;Q00978;Q66LE6;Q9Y3C7;O76075;P51948;P61024;P18615;Q9NPD8;O60216;Q8WVM7;Q16594;P12270;P05423;Q16629;Q15596;Q9BRP8;Q14149;O96004;Q08211;P62316;Q15054;O94906;P51668;P31350;Q9HAN9;O15525;Q07955;Q9NP71;P55055;Q04864;P49711;P55769;Q9NZP6;Q9NVU0;P61077;Q13427;P27694;Q00597;Q12834;P12755;Q9Y2L1;Q8NCD3;Q09161;Q14974;Q8WX92;P10914;P08047;Q96DI7;Q12888;Q9H6W3;P11802;P54252;Q9H501;Q9UKN8;Q9H9Y6;P52630;Q92889;P51531;Q9H944;O14757;Q13562;P14678;P01100;Q15572;O75943;Q92674;Q86W54;P25789;Q13263;P28715;P11387;Q8IVN3;Q96FV9;O00233;P62487;Q86WQ0;Q14566;O96020;P30305;Q14686;Q9BRT9;Q8WYQ5;Q9Y266;Q5SXM2;P19388;Q9BVC3;P29084;P60228;P23409;P35637;P10599;Q14186;Q50T94;Q9Y5Q8;Q04725;Q96Q89;Q14653;P38432;P20618;O15131;Q92541;Q03468;Q13352;Q04726;Q9P004;Q9Y6Y0;Q9HB96;Q9H814;Q9NVV9;Q6GRN5;P30307;O00159;Q13435;P62314;P13984;Q7LG56;P63208;Q8NDT2;Q96F24;Q96D46;P62306;Q8N726;O60508;Q8TEQ6;P25205;P54727;Q9NVI1;P40306;O14929;P14635;Q9UKV3;P15927;Q92759;Q9HAW4;O95402;Q13042;Q9BXP5;Q9UJX5;P32780;P51965;P18847;P62136;Q9NYP9;Q9BU64;Q13526;Q9Y5B0;Q92769;P49720;Q14683;Q96KS0;Q96DE0;P16220;Q99717;P52435;Q04206;P45973;P49848;Q16576;P62318;P36873;Q9UM13;Q04727;Q15029;P52597;P28062;P57081;Q9UBZ9;Q14192;Q9UHI6;P49721;Q71SY5;Q53HV7;P42704;Q10570;Q9NYG5;Q9P2I0;Q15562;P35269;O60921;A9QM74;Q99594;P22736;Q9Y262;P52948;P20248;Q96QD9;O00273;P35251;P25786;Q9UKX7;Q01081;P05412;Q8IZL2;P11388;Q96RS0;P29083;P49450;Q92985;Q15327;Q16514;Q05519;P28347;P82970;Q14691;O00255;P67809;P78396;Q8IX07;P18850;A6H8Y1;Q01826;P42771;Q9BYK8;O75376;P42224;O00762;Q86YI8;Q15369;O75582;P83369;P06748;P28072;Q16254;P08235;O75717;Q9NWX8;Q86YC2;Q8NGT7;Q00403;Q9UJX3;Q13200;Q13033;Q14209;Q13569;P11474;P50613;P15923;P10827;O43290;P28065;O00267;Q14181;Q09028;P23193;O14980;P62979;P55265;Q99436;O15360;P17544;P28070;P28749;P84103;Q9NW08;P55199;Q8NE71;P35658;Q6NS38;Q9HCU8;Q14397;Q8N3U4;Q92797;Q14980;O00482;Q9UK39;Q9BQA5;P84022;Q9Y3T9;Q9UJX4;O95400;Q9UM11;P14866;P62837;Q9UL46;Q6P2Q9;O14746;Q99460;O00231;O95639;Q06671;Q15759;Q9NYV6;P0CG47;P83876;P63165;P45984;Q96Q83;Q12983;Q8IXH7;Q9BZK7;Q6ZNA4;Q5TKA1;Q12789;Q9UIF7;Q13416;P62508;O15379;Q8N187;Q6NZI2;O15287;Q00839;P52292;Q08945;Q9UGN5;Q92750;P18754;P21675;Q9GZL7;O15084;P46937;Q6P2C8;Q12962;Q13156;Q6WBX8;P19387;Q92966;Q7Z2E3;P35232;Q16533;P63272;P48556;Q9GZN2;O15105;P06746;P12004;P52655;Q13342;Q92945;O14893;Q13547;Q9BTT4;P49116;Q66K89;P62841;Q9H2G4;P24928;O75362;P62140;P28074;P62308;P52298;Q92530;P54253;P38936;P30876;P62987;P38159;P13056;P33992;Q9UM54;P52434;P55212;Q00653;Q15543;Q0VG06;Q9NYB0;P23246;P26368;Q15652;P15336;P10828;Q9Y333;Q92793;Q15365;P39748;Q8N488;P51003;Q15361;O60264;P78549;Q92466;O75475;O75586;O00505;P19447;P35813;Q06323;O60675;P30260;O15160;O75419;P17275;Q86U42;Q16637;Q96EZ8;Q00987;O75531;P31943;P19838;O43592;Q12824;Q99741;P23490;B2RXP5;O43172;Q6P0N0;Q06609;Q14137;Q9UKL0;O60244;Q9H211;Q13485;Q96HR3;O14818;Q7Z3B4;Q93075;Q8WTR7;O75925;O43482;O14595;Q8NHY2;Q6K0P9;Q93074;O75683;Q9Y253;P24941;Q9UNA4;Q14498;P27695;Q9NZI5;Q9Y6X3;Q9UKF6;P52294;Q9BVP2;P17861;P49790;Q01860;Q15544;O14802;Q14676;O00716;Q14493;O60832;Q13105;P52747;O15318;Q9NPI6;Q99638;P09661;P15187;Q9NXV6;Q9ULX9;Q16401;Q9NVC6;O43513;P33240;Q15561;Q15366;Q01094;P62875;P54274;Q6MZP7;Q12874;O43809;P55210;Q9Y5S9;P13010;Q9Y5P8;P12956;P15226;Q9BWT5;Q13501;Q8WXD5;P46527;Q9H840;O75081;P35638;P29372;P24864;O60934;Q96ST3;Q13617;P10589}

4211 Pathogen[ P14079] interacts with 716 human partners: {P31751;O60671;Q9Y2S0;O43809;Q92664;Q5SXM2;Q14980;P28065;O15379;Q6P0N0;Q99436;P00374;Q9Y5B9;Q04725;P54274;P62875;O60244;P11388;Q96MU7;Q9Y333;O95402;Q01105;Q8IX12;P62333;P13056;Q9Y2X0;O43513;O15315;O14746;Q13416;Q15007;O00442;P55199;Q9BRT9;P57678;P62508;P33076;P09874;Q15287;Q96T23;P48556;O76075;Q08945;P51965;Q96RS0;Q8WTR7;P12755;P55055;Q7L590;Q9UIF7;Q92994;Q9BYK8;Q15561;Q9Y2Y4;Q9BZK7;P41238;Q15573;P14373;Q9BVP2;Q8TEQ6;Q02078;Q99814;Q9NYV6;Q14241;P0CG48;Q06413;Q9BWX5;Q6STE5;Q9UNA4;Q8NB91;O75419;O43482;Q15596;P28715;P52630;O94906;P30307;Q14566;Q9GZV5;Q9NUX5;P14859;Q9UKT4;O60508;P35637;Q969H0;P53779;P28749;P13349;Q14653;P19387;O75691;P52747;Q9Y5B0;P35269;Q14186;P49336;P51946;Q9UDY2;Q13415;Q16594;Q13309;O14893;P23409;Q14192;P52564;Q8IXH7;O75362;Q9Y2N7;P35398;Q9UKF6;Q9UKN8;P78396;Q9Y5N6;Q14103;P67809;Q8IYD8;Q9UGN5;P50995;P24864;P62487;Q9NW08;O15304;Q96CJ1;P36873;Q52LA3;Q92966;P11473;Q075533;P40937;P13010;Q96ST3;Q230306;O75582;Q96JK9;Q16254;P10828;Q92541;Q16829;Q9UJX3;Q9BSI4;P08235;Q10570;P52434;P49285;O60832;P52298;P55036;P35658;Q92793;Q13033;P28074;Q6WBX8;O00232;Q12874;Q9Y468;Q9NVV9;Q86WQ0;Q9NPI8;Q969S8;Q9H1A4;Q13243;Q15583;Q9Y5S9;O43592;Q9NPD8;Q02241;Q9UJX5;O75475;Q16531;P49005;O15198;Q9BUJ2;Q96HR3;O15514;Q15329;P33240;Q9GZL7;Q99594;O43913;P54252;P28347;P17096;P30876;Q14691;P11474;Q96F24;O95251;P52294;Q9H211;Q00597;P61218;Q8WXE1;P26368;Q6P2C8;Q9Y376;Q9NXV6;O60675;P29372;P83876;Q01826;O60907;Q9H3P2;P49720;Q9ULK4;O00487;Q9Y250;Q13487;P62136;P25787;P51587;O60216;Q14966;Q6ZNA4;Q9NVC6;P51531;P42704;Q14209;O75832;Q9GZN2;P14866;Q8N726;Q9Y266;P23246;P07910;Q9UBU9;O96004;P22736;Q13573;Q9H840;Q6K0P9;Q13105;Q9Y383;P15976;P35232;Q9HCU8;Q96D46;Q8IZL2;Q9Y5Q9;Q8NG31;Q9UBZ9;O94913;O95639;Q13112;Q13216;Q15029;P16455;Q13889;Q9BXW9;P53803;Q6IPU0;Q9Y3A5;A6H8Y1;Q13427;P62979;P46937;P18615;Q86YC2;Q9UM54;O00233;O60934;Q6P2Q9;P23010;P31350;Q15526;P62841;P62316;P54253;Q13156;Q14498;Q9HCS7;Q15797;Q15427;P33316;P61077;Q08211;P10827;P57081;P61289;P23025;P29084;P23497;

P30304;Q05048;Q15652;Q9NQ94;Q00839;P62877;P62987;Q16576;Q15572;O43290;Q7LG56;P55212;O95718;Q96FV9;P83369;P51665;Q15459;Q9UKX7;P20618;Q00987;P45984;Q92797;P63104;P62306;Q86U44;Q9NVI1;Q9NYG5;P35813;O75448;P14678;O95400;Q14149;Q8IYB3;P45973;P19338;Q06330;O43148;P45983;Q99741;P82970;Q8N3U4;Q16629;P50613;Q9H6W3;P40337;Q13888;P17480;P26599;Q15054;P55795;P12956;Q9BWJ5;Q9P0W2;Q9Y3T9;Q9HAW4;P61326;P35250;Q16637;Q71F23;Q6MZIP7;P19388;P51668;P14635;Q8NHZ8;Q00403;Q9UMS4;Q9UK39;O75943;O75586;P12270;Q00165;O14929;Q15543;P28062;P60900;Q96BD5;Q9UPN9;O00482;Q16644;Q9UKV3;Q12962;Q9UER7;P55265;P17544;Q8WYP5;Q92769;Q9UBD5;Q9BZI7;O00716;Q9UM11;Q96Q89;Q9UHV7;Q8N6T7;Q9BUI4;Q9H2G4;P55210;Q96RN5;Q0VG06;P05423;Q05519;P38936;Q15759;Q9UM13;Q7RTV0;Q9BRP8;Q6NS38;O75469;Q9NPG3;P24863;P08621;P49848;Q13042;Q92945;Q8N684;Q9UNM6;O15160;O95243;P56282;Q8NE71;P27540;Q8IVN3;P52435;P63272;Q66K89;Q14974;P18887;P35251;Q9H6Z9;Q9BVC3;P17275;Q66LE6;P62140;P49450;Q86V81;P15336;Q9NRR4;Q92750;Q86U42;Q99460;Q9Y5Q8;Q96H22;Q9NZIP6;P28702;P62308;Q8WXH0;P23490;Q9NYB0;O60506;Q9H944;Q15370;Q15788;Q92759;Q9Y6Y0;P09012;Q9HAW0;O14818;Q9P0J0;Q92889;Q8IX07;Q15366;Q9Y248;Q9NZI5;P27695;Q12983;P49721;P62304;Q15428;Q9UKL0;Q9Y2Y1;Q9Y2L1;O60264;Q9NPP6;Q9ULX9;Q15327;Q92530;P49790;P62316;Q93075;P35638;Q9NYP9;Q07955;Q9H2F5;P49642;Q16621;A9QM74;P06748;P01106;Q9Y262;O00505;Q86YI8;O43502;Q13501;Q14181;Q969L4;O43929;Q9H3R5;P52657;Q16533;Q15365;Q9P0U4;Q04726;Q9HAN9;Q9UJX6;P42224;O75531;Q13617;P33992;P10588;P18850;Q8WX92;Q15554;P20700;P32780;O75081;Q53HV7;Q71SY5;Q8N488;Q6NZI2;Q04724;P20248;P61978;P06746;Q12789;P15927;P31943;Q14676;Q9BT43;O75925;P15880;Q01081;Q9BTT4;Q9Y253;B2RXF5;P23193;O15525;Q96AZ6;P13984;Q9BYG3;P38432;Q14493;P30260;Q06323;Q9NVU0;Q8NCD3;P10599;P27694;Q86WX3;Q00978;Q6PI26;P62191;Q7Z3B4;O75182;Q8WYQ5;O75376;O60583;P78317;Q06787;Q92674;Q96FC9;O00541;Q99638;Q9H96;P46527;Q9Y6X3;P62837;Q14011;Q9UQE7;Q15562;P55769;Q13164;Q03468;Q9BTP7;Q92466;Q9NQV7;Q14137;P12004;P12757;P52597;O43390;Q14397;Q02386;Q9HAV4;O00762;O95602;P30305;Q9BXL5;Q9BU64;Q15008;P24928;Q15369;Q12824;P43686;P10589;Q93074;P51003;Q01831;O43242;P62826;P25788;P63208;Q12996;P49116;P09661;Q8N187;Q9UKN5;O14802;O00231;Q13616;O15318;P28066;P05412;P83916;Q9Y5P35;Q15466;Q13569;Q9UL46;Q9BRG1;O96020;Q12888;O15084;O95235;Q13526;P02545;Q15361;Q09028;Q96QD9;Q9BXP5;O43172;Q16514;O95619;P52756;O75494;Q9H1D9;Q53T94;P35244;O15105;Q06609;Q14683;O00267;Q9NW38;P62318;P0CG47;P54727;Q5TKA1;Q96Q83;P36954;Q7Z2E3;Q96GY3;Q01094;Q13352;Q7L2Z9;Q96G25;Q92585;O00255;Q96KS0;O75971;P04818;P01100;O75683;Q9NP71;Q96EZ8;Q14188;Q23769;O75717;O15360;P14316;O00629;P25205;P52292;Q16401;Q13426;Q9UJX4;Q8WXD5;Q14686;Q15542;Q8NDT2;O60921;P49711;P17980;O75496;Q96DE0;P18754;O15131;Q04727;Q8WUA4;Q8WW38;P07992;P28072;P19447;Q9Y535;P39687;Q9H501;Q96AP0;Q9UBU7;Q09161;P22626;P07305;P10914;P22674;P84103;P29083;Q13342;Q8IWZ8;P49917;P21675;O00268;Q16666;P39748;P38159;Q9H116;P52948;P13693;Q14978;Q3L8U1;Q9H9Y6;Q9P2I0;Q08999;P50750;O00273;P42771;Q8NHY2;P43351;P61024;P51948;Q8WTP8;Q9H814}

4212 Pathogen[ P03383] interacts with 628 human partners: {P43351;Q9Y618;Q14683;O95402;Q13573;Q7Z2E3;P02545;P23490;Q06330;Q15329;P30307;P53803;Q8NHZ8;Q9NRR4;Q90928;Q9UKN8;O15198;Q13616;O75182;P62140;Q9Y253;Q14978;Q9UBU9;Q2585;Q07955;P50995;P55199;P10914;O75925;P14316;Q15561;Q9Y2L1;P09661;Q92831;Q9UBD5;Q12888;O14757;Q15287;Q06609;Q96JK9;O75582;Q05048;O95602;Q01105;O60671;P06746;P55036;P61024;Q13485;Q15369;P63272;Q6IPU0;Q14653;O75494;Q04864;P33076;O00716;Q15366;P08047;P51003;Q9H3P2;Q9NYV6;P06748;O43148;P13010;Q14209;P29084;Q969L4;P55212;P17096;P16220;Q9HC8;P27540;Q15562;O43390;Q02241;Q15544;Q8N3U4;P62987;P17544;Q8N6T7;Q12824;P35269;Q13216;P83876;P19338;P51948;Q9NYG5;Q9H840;Q00653;Q15459;P62318;Q08999;P23075;P51965;O43290;Q9UJX6;Q9H944;P40337;P25789;Q8WXE1;P49711;P22626;P60900;Q15596;P15172;Q01094;P14866;Q9NYB0;Q15029;O75376;Q15572;Q6NZI2;Q9ULK4;Q96F24;P12270;P01106;O43172;Q8WW38;Q96CJ1;P60228;Q13487;O95251;Q7L590;Q96MU7;O15304;Q04727;Q15554;Q96GY3;O00541;Q9HCS7;O15527;Q9UPN9;Q8NE71;Q9UI95;Q13888;Q14181;P49116;Q9Y5S9;O75362;Q9HAW0;P14859;P23193;P52948;P27694;O60244;P31749;Q96BD5;P55795;Q53HV7;O60907;P62316;Q9BXW9;Q9Y535;P22674;Q9H9Y6;P40306;Q96DE0;O00233;P18847;Q92966;P25205;Q86X55;P17861;Q8WYP5;Q8IZL2;Q01826;Q14686;Q6STE5;Q96FV9;Q06787;Q10570;P52655;Q6PI26;P62304;P30304;P23769;Q92797;Q6MZIP7;Q9NYP9;Q8WYQ5;Q9Y262;P61326;Q9UHI6;Q9H2F5;Q8WXD5;Q15542;P52630;P35638;O00762;P15923;Q6P2Q9;O95400;P49721;Q06323;Q9UK39;Q96G25;Q12874;Q6ZNA4;Q5TKA1;P52434;P24385;P61218;Q9Y6X3;P26368;Q13243;Q9UKT4;Q01860;P78317;Q08945;Q15797;Q96H22;Q9H1A4;P10599;P61978;Q8WXF1;O75691;P11387;P18846;P31943;P63208;O00505;P49005;Q86V81;Q9NPP6;Q96T23;Q13352;Q13435;Q00978;Q96KS0;P35813;P20618;Q04724;Q9H6W3;O60216;Q9Y5Q8;Q13042;O75683;Q9H1D9;Q93074;Q9Y248;Q9UKF6;Q01831;O00267;P38432;P14635;Q12983;P11802;P06400;P18146;O94906;P31350;Q66K89;O15525;P78396;P38159;Q9NP71;Q96D46;Q9NZIP6;Q9NVU0;O60921;A9QM74;P61077;Q96HR3;Q00403;P36873;P62826;O43913;Q09161;Q9BXL5;Q16629;P83916;Q6WBX8;Q71F23;Q9Y3T9;P20226;Q8IVN3;P62136;Q12834;Q9Y5P8;P56282;O75832;P52657;Q96RN5;O75448;O96004;P62487;Q14397;Q86WQ0;P29372;P11473;O15105;Q8N684;O94913;Q8IYB3;P11474;Q16533;P49336;O95243;Q9HAN9;Q16594;Q92985;Q14186;Q06P2C8;P54252;Q8IXH7;Q16637;Q13427;Q16621;Q9NVI1;P15927;P45973;P84022;Q9BU64;Q92994;Q04726;O75081;P52292;P52747;Q9Y6Y0;P19387;P33240;P62314;Q9NVV9;P05787;Q15361;O60563;P84103;Q92945;Q15652;P50613;P13984;P39687;O00273;P63104;P20700;Q9UM13;Q9Y3C7;Q8TEQ6;Q13105;O14893;Q8N488;O14929;Q9Y5N6;P28347;P35637;P51946;P24928;Q9UKV3;Q14192;P46527;Q03468;O14980;Q9HAW4;Q01130;O15287;Q9HAV4;Q9BQA5;Q9Y383;P24941;Q13426;P18754;Q92769;Q13342;Q99717;P09874;P23025;Q14493;Q04725;P49848;Q9Y2N7;Q9BSI4;Q14103;Q9UM11;Q9H501;Q9H6Z9;Q96QD9;Q15466;Q16254;P57081;Q9UL46;O14746;P63165;P28702;Q9UNM6;P50750;O75971;P14678;Q9UKN5;Q9Y333;P51531;P35244;O15379;O00268;Q9UER7;Q96Q89;P25786;Q99460;Q01081;Q9BRT9;P62837;Q15759;Q96RS0;O96020;Q16514;Q52LA3;P82970;O00255;O75475;Q16666;Q86WX3;Q9BRG1;Q9NPG3;Q86YI8;P28072;O15084;P54727;Q9UBZ9;Q15365;Q14974;Q92759;Q13200;Q15054;Q13569;Q9P0W2;Q9Y266;Q15573;Q9Y3A5;P35232;Q6K0P9;P28065;Q13501;Q9HB96;Q8IX12;Q969H0;P42771;P28062;O15131;Q13547;O43809;P52298;P28749;P09012;Q9UKL0;Q15007;P35658;Q14980;Q3L8U1;Q71SY5;P54253;P23497;Q9H116;O75419;Q13617;Q15327;Q99638;Q9UJX4;Q14188;Q9H2G4;Q16401;P01100;Q8NCD3;Q05519;P62979;Q8NG31;Q92750;O00231;Q00597;P0CG47;A6H8Y1;Q9BUJ2;P62875;Q

15796;Q99594;P21675;Q9BZK7;Q92541;Q13416;Q9UJX5;P62877;P52435;Q13309;Q9GZL7;Q04206;P55265;Q8WTR7;O15360;P57678;O15318;P55769;P45984;P42704;Q9P2I0;Q9Y5B0;Q86YC2;Q8NDT2;Q15370;P12757;P0CG48;Q12962;O60675;Q9NPD8;P33316;Q96ST3;Q9BTT4;Q14691;P28074;Q9BXP5;P62841;P18887;P62308;P27695;Q92530;P23246;P19388;P49720;Q16531;Q9UHV7;Q96Q83;P61289;Q6P0N0;P29083;P24863;Q13156;Q8N187;Q13033;O43592;Q12789;P15336;P10828;Q9NXV6;Q9NZI5;Q9UKX7;P18848;Q9UJX2;Q9NVC6;P18850;P62508;Q14676;O95619;Q8NHY2;P83369;Q92466;P30876;Q95586;P28062;Q9NW38;Q9P0J0;P24864;P30260;Q92674;Q5SXM2;P17275;Q86U42;Q96EZ8;P17480;P48556;Q9H3R5;P19838;O00629;Q9NPI8;O14818;Q9BVC3;P67809;Q14137;Q9UJX3;P46937;Q14241;Q7Z3B4;P13056;Q9GZV5;Q9ULX9;O60583;Q00839;Q99436;P52294;Q13112;Q9BVP2;Q9Y5B9;P08621;Q9BYK8;P49790;O14802;Q9Y2X0;P32780;Q9H211;P52597;P15880;O60832;Q9BTP7;P20248;P18615;O43482;P28070;Q9UMS4;Q16576;Q92793;O75531;Q7RTV0;Q13526;P54274;Q9BRP8;Q02078;Q0VVG06;Q969S8;Q8WX92;P51668;Q9UDY2;Q9Y468;O75496;Q99741;P12956;Q9BWJ5;Q9H814;Q53T94;Q8N726;P25787;P62306;O96017;P35251;P25788;Q9BZI7;Q15543;Q9Y250;Q14498;Q8WVM7;P05412;Q96DI7}

4213

Pathogen[ P03410] interacts with 738 human

partners: {Q9HAW0;P84022;Q99594;Q9UKT4;P83876;Q14397;Q92831;Q8NHY2;Q04206;O60583;Q08945;Q7Z3B4;P23025;P42771;P28070;P49959;P23409;O95619;Q9H6W3;Q9Y2L1;Q6NZI2;B2RXF5;Q92945;P18887;P23246;P19838;Q96Q89;P46527;Q00839;P52655;P35244;P25205;Q9NUX5;Q15427;Q8WTP8;Q9UI95;O75925;P55036;Q96RS0;O43929;Q9BWJ5;Q6ZNA4;P23490;Q15572;Q8WXD5;O60675;Q01081;P10599;P31350;Q9UK39;P0CG48;O95639;Q52LA3;O14893;Q16666;P35638;P26368;Q9H3R5;Q10570;Q14974;P61326;O75683;A9QM74;P19387;Q14103;P62304;P35813;Q96T23;Q8IX12;Q13889;O00505;Q8NE71;Q96H22;O60508;P17861;Q15329;Q9Y5Q9;P18615;P36954;Q9NV11;Q9BT43;Q9H3P2;O00268;Q12983;Q12996;P50995;O00442;Q15029;O75943;Q8WTR7;P61978;Q9H1A4;O14929;Q04864;Q92994;Q9NVV9;Q9UKX7;Q05048;Q14181;O96004;Q15543;P25786;Q16629;Q13416;Q15652;Q9H840;Q04726;Q8IYD8;P12755;Q15554;Q96G25;P82970;Q66K89;Q15008;Q96KS0;Q96AP0;P22626;Q16401;Q9P0U4;Q8N726;Q8NG31;P18847;Q9H6Z9;P01106;Q9BUJ2;P63165;O95251;Q92750;P07992;P15880;Q99814;O00267;Q9Y5B9;P62306;P63272;Q06330;O15315;O14746;Q9BXP5;P62841;P52294;Q01860;Q96F24;P48558;Q6IPU0;Q15287;P60900;P54274;O75419;O96020;Q12962;Q9BQA5;P21675;Q9BXW9;Q9UQE7;Q14149;P29083;Q14686;P18848;P35998;P51965;Q13526;Q15393;Q9Y2N7;Q99460;Q9BYK8;Q9Y5S9;Q8N6T7;Q6PI26;P00374;Q9UJX4;Q8NB91;Q9NYG5;Q14493;P14859;O75582;Q9NVC6;Q99717;P52948;P41238;O00233;O76075;P35637;Q14653;P51946;Q9UNA4;Q16254;Q8TEQ6;Q9UM13;Q15365;Q6WBX8;Q14978;Q9NPJ6;P62136;Q9Y333;Q9P0W2;Q8WXE1;O00232;O75182;O15198;P20700;O00273;Q00159;Q9NYP9;Q86X55;Q8NHZ8;Q04724;P55769;Q9NZI5;P05787;Q13501;P22674;Q9Y6Y0;P39687;P31749;P17096;Q9HAW4;Q9NXV6;P06746;P45973;P48556;P30876;Q86WQ0;P26599;P49721;Q92674;P54252;O60832;Q92889;Q93075;Q08999;Q9Y468;Q9H211;P20226;Q96MU7;Q15366;Q15370;Q01105;P10828;Q9Y5Q8;A6H8Y1;Q5TKAL;P62308;P14678;Q96Q83;P62316;Q9Y3T9;P39748;P06748;P06400;Q14137;Q9BSI4;Q9H116;P56282;O75376;Q9BTP7;Q9GZL7;P43351;Q15327;P23193;Q03468;P55265;P15923;Q8WYQ5;Q9Y3C7;P62979;P28715;Q9NPG3;Q6NS38;P78549;P62508;Q6P0N0;P52657;Q8NCD3;Q92466;Q14188;Q96ST3;O15514;Q9BRT9;O60216;P50613;P14866;Q9NRR4;Q99436;O15318;P09012;Q92585;Q01831;Q8WW38;Q9Y535;Q92541;P01100;P18846;Q53HV7;Q9BZI7;Q96FV9;P38432;P33992;Q96QD9;P17544;Q16576;Q9GZV5;P11473;P51003;Q9HF5;P78396;P08621;O95243;O43809;Q7Z2E3;P50750;P43036;P27540;P67809;Q9NYV6;Q9UM54;P33316;Q06323;O60563;O00716;O15525;Q16829;Q9HCS7;O94906;Q8IZL2;Q15583;Q9UBZ9;P12956;P24385;Q9UDY2;P07910;P08579;P55199;Q96JK9;Q92793;P63208;Q14966;Q969S8;P35251;Q15573;Q13200;Q99828;P49790;Q8IX07;Q05519;Q8IXH7;Q9ULK4;Q9H814;O95402;Q8WX92;Q15561;Q9UKV3;P25787;Q14980;Q9NQV7;P29084;Q90928;O15084;Q9NW08;Q15369;Q9UER7;P14635;Q9UM11;P12270;P38936;Q92769;O43513;Q02386;Q9BWX5;Q13042;O43172;Q96GY3;Q13342;P52435;Q92797;Q13309;P62826;O00629;O95602;O94913;O43502;P62140;Q969H0;O15287;Q9UKN5;Q07955;P52597;P35658;P52298;Q16514;P28347;Q16637;Q9NPI8;P04818;P30304;P24941;Q9P2I0;P31943;P17275;Q99638;Q00597;O15527;P62314;Q16621;Q9Y253;P49848;P83369;Q8IVN3;Q8N187;Q9UGN5;P04553;P51587;O43482;P11802;O75362;P78317;O75531;O15379;Q9BYG3;P33240;Q9UBU7;P53803;P02545;Q13569;P28062;Q13033;Q15797;Q71F23;Q96AZ6;Q01826;P42704;Q13112;Q9NP71;Q15428;P16455;P151665;P62877;P19447;P11387;Q14683;P09661;Q8WXF1;Q13485;Q13156;P10914;Q96DE0;Q9ULX9;Q15459;P22736;Q04727;Q14186;O75533;P13693;Q9Y2S0;Q8NDT2;Q86V81;P62875;P05423;Q15054;Q9BVC3;P28702;Q12789;P19338;P52272;Q6K0P9;P09874;P16220;Q15466;Q00403;Q9BXL5;O14818;P12757;O96017;Q9UBU9;P36873;Q9BTT4;O14757;O60671;P51668;Q9BRG1;P46937;Q6P2C8;Q14118;Q86WX3;Q9UJX5;P35269;Q9HB96;Q8N3U4;O60921;Q14011;Q8IYB3;Q16594;P61218;Q16531;P13349;Q13426;P05412;Q8N488;P49336;Q7L590;P20248;O15360;Q9Y2Y1;O95400;Q12888;Q96HR3;P49711;Q96CJ1;O00231;Q9UNM6;Q12834;O15105;P30260;Q9HAN9;P11388;P63104;Q15596;Q13216;P51948;O15160;P51531;P24863;Q9Y5B0;P49450;P28749;P25789;Q15544;P49720;Q13888;O60244;Q01130;Q96D46;Q9Y2Y4;Q9UHV7;Q9BVP2;Q13616;Q969L4;P11474;P45984;Q92664;P57081;Q9UJX3;Q9Y248;Q9UKF6;P52434;P23769;Q9NPD8;Q96EZ8;P52630;Q3L8U1;P62987;O75081;P53779;P27695;Q13547;O00762;O75496;Q01094;O75717;Q7RTV0;P49116;P57678;O00541;Q53T94;Q9UMS4;P13010;P13984;P10589;Q92966;P61024;Q02078;P83916;Q15542;Q8N684;P62487;Q9H1D9;Q8WVM7;Q9BZK7;Q9Y383;Q9GZN2;Q14498;Q6MZP7;Q9Y250;P08047;P49005;P27694;O60506;Q96FC9;Q13487;Q09161;Q9Y266;Q00653;Q13617;P28072;O43148;Q14676;Q9NVU0;Q00987;P15927;Q9Y2X0;Q14691;O75475;Q06787;Q6P2Q9;Q66LE6;P35250;Q93074;P18754;P84103;Q13105;Q9P0J0;Q86U44;O75691;P14316;Q96BD5;Q9UKL0;Q14209;Q86U42;Q6STE5;Q9Y5N6;Q9NW38;P54253;Q15361;P30305;Q9H944;Q9Y618;Q92985;O43290;P55795;O60264;P25788;P35232;P18146;Q9NYB0;Q8WUA4;Q9Y262;Q12824;P52292;Q9HAV4;O43913;P40937;Q9H501;Q13243;O43592;Q12874;Q14566;Q13427;Q9UKN8;O00255;Q9H2G4;P38159;Q15796;P55212;Q8IWX8;P60228;Q9Y3A5;Q5SXM2;P23921;P08235;P15336;Q9UHI6;P19388;P28066;Q15562;O15131;Q08211;P24864;P12004;Q8WXP5;Q14241;P40763;P32780;Q9UBD5;Q86YC2;P18850;Q8WXH0;O75971;O60907;P33076;P28065;O14802;O43242;Q00978;O75448;Q96RN5;P30307;Q14192;Q9UJX6;Q16533;P15976;P29372;Q7LG56;P0CG47;Q92759;O60934;Q9BUI4;Q13352;Q9NZP6;P17980;Q9UPN9;Q9UIF7;Q7L2Z9;Q0VVG06;O75832;O14980;P20618;P40337;P49642;Q9HCU8;Q9Y5P8;P61077;Q13573;P62837;Q06609;O75586;Q9UL46;Q02241;Q9BU64;P28074;P61289;P55210;Q9H9Y6;P52747;P17480;Q13435;O43390;Q04725;O75494;P13056;Q15007;Q13415;O15304;Q99741;Q9BRP8;Q86YI8;Q71SY5;P54727;P62318}

4214

Pathogen[ P14075] interacts with 631 human



partners: {Q04727;P43351;Q9NVU0;P42704;Q3L8U1;Q92797;P52630;Q9Y5P8;P11387;P17480;P49336;Q7Z2E3;P52292;Q8NB91;Q96ST3;P51003;P22626;Q16576;Q92585;Q15572;O15131;Q8TEQ6;Q6IPU0;Q15366;Q12789;P63165;Q9HB96;Q8N6T7;P62304;Q9GZV5;P54253;Q05519;Q9NXV6;P14866;Q12962;Q09161;Q12983;P35813;P62316;Q9H814;P55036;Q8WXF1;P25788;P13984;Q9Y266;P19338;Q9H211;Q9NPJ6;P23497;P23246;Q92759;Q8N187;Q9H2F5;Q96KS0;P12956;Q13042;Q9NVI1;Q96D46;Q8WDX5;Q16533;Q00273;P24863;P31350;Q13105;P29066;O15360;Q04206;O43809;P21675;Q9P2I0;Q96DE0;P20491;Q13573;Q969S8;Q9UBZ9;Q14683;Q92866;P55265;Q08999;P52657;O14746;P08621;P23205;Q8WXE1;Q02241;P05412;Q9BXL5;Q15542;Q8N488;Q04725;P18615;P11802;Q06323;O75832;P11474;Q15575;Q9BQA5;Q14103;Q86V81;O75475;P61024;Q9NYV6;Q13243;P62837;P14859;Q92831;P52747;Q15554;P10828;Q9BSI4;Q96Q83;Q9UKT4;P60900;P17861;Q08945;Q9Y6X3;Q15562;P27695;P28347;Q8WVM7;P30876;Q9BRP8;P14635;Q96HR3;P61326;P38432;Q9UML1;Q86WX3;O00233;Q9UKN5;Q01831;Q86YC2;Q14686;Q14493;O75582;Q92674;Q9UL46;P57678;Q53T94;Q9H116;P17275;Q9Y5N6;Q00403;Q15459;O75362;P55212;P49720;O60563;Q9Y5B0;Q8WYP5;P29083;O75971;P23769;Q9UKL0;P50613;Q14241;Q9GZL7;Q52LA3;P18847;Q01860;Q9UBD5;Q6P126;Q9Y468;P38159;Q9NPI8;Q92945;O15527;Q15652;O75419;P20700;Q15561;Q53HV7;P15172;Q15428;O00541;P17096;Q15327;P51965;P18146;Q96EZ8;O60675;P06746;P29084;O95619;Q9Y2N7;P42771;P33076;O00629;P19388;O95400;Q01130;O75925;P61218;P35638;P50750;O60583;Q9UIF7;Q92994;Q9H840;Q9Y250;O60671;Q9ULX9;Q96H22;O43172;Q9UKX7;Q9BTP7;P31943;Q13216;P23490;P39687;Q5SXM2;Q15544;P49005;P45973;Q93075;Q9HAW0;Q99717;Q13200;O75448;P48556;P19387;P62140;O00716;P62306;Q16401;O75494;Q00978;Q8WW38;Q8IX12;P20226;P15336;O14929;P62308;P15927;Q9UI95;P35658;O96020;Q16666;P12270;O43390;Q15796;Q01105;Q9HAV4;O15304;P28070;P15923;Q96AP0;O94906;Q14691;Q9H2G4;Q14209;Q9NZP6;O75182;Q13547;Q9UJX2;Q6K0P9;P61077;Q16594;P49721;P13056;Q9Y2L1;P01106;Q92750;Q9UKV3;A6H8Y1;P36873;Q9Y618;Q15029;O75081;O95402;Q9Y248;P54252;O00231;O75376;Q01826;P46527;Q16637;P27540;P62136;Q9NW38;O75586;P78396;Q9UJX6;O43592;O00505;Q9BTT4;P12757;Q9NPD8;P62487;Q03468;Q8NHZ8;Q96QD9;Q96DI7;Q92530;Q96004;Q13485;P35232;Q99638;O00255;P63208;Q93074;Q9BVC3;Q5TKA1;O75691;Q9H3R5;Q8WTR7;Q9NP71;Q13156;Q14186;Q6NZI2;Q09028;O14980;P60228;Q15365;Q00839;P49116;P50995;Q9HAW4;P35244;P54274;Q92541;P52294;Q04726;Q9UHI6;P31749;Q9Y6Y0;P02545;P0CG48;P62979;Q6ZNA4;Q13435;O00762;Q9Y253;P57081;Q9BU64;Q9Y3C7;Q14653;P62318;P28062;P83369;Q15370;Q12874;O75683;P22674;P55769;P28074;P23193;P33240;Q9UJX5;Q9UHV7;Q14676;Q96017;Q13889;Q16254;Q13526;Q92769;P25205;P28065;Q9BUJ2;Q05048;Q9Y5B9;P49848;Q86X55;Q6MZP7;Q9H1D9;Q15287;Q9H944;Q9UPN9;Q15007;P24928;Q96MU7;Q9NYP9;P51531;Q9Y535;Q15573;P35269;O15198;P11473;Q99594;O60244;Q96CJ1;Q6P2Q9;P54727;Q9H6W3;P26368;P20248;P35251;Q9UK39;P52655;P25786;Q01081;Q16531;P15880;Q96RS0;Q8NE71;P62826;O14818;Q15054;Q16514;O95251;P82970;P62987;P67809;Q13309;O60907;Q06787;P63104;P06748;Q86YI8;Q96BD5;P28072;P78317;P18848;Q9NRR4;Q9UMS4;Q96JK9;P09661;Q8IYB3;Q01094;Q9BWJ5;P62841;Q9Y333;Q13487;Q8NH Y2;P61978;O15105;Q14397;P30304;P06400;P83916;P33316;Q9BRT9;Q9Y5Q8;O15287;Q02078;Q13426;O60832;Q9Y262;O43913;P27694;Q12824;P14316;Q06330;Q9H9Y6;P51946;P28749;P32780;P09012;P55199;O15379;Q66K89;Q9ULK4;P01100;O60921;O00268;P14678;Q8NDT2;O15525;O95602;Q9UJX4;Q9HCS7;Q9Y3T9;Q6P2C8;Q13342;Q9NZI5;P0CG47;A9QM74;Q8NCD3;P49711;Q9Y383;P25787;Q9BZK7;Q96T23;Q92793;Q9UDY2;P28702;Q9NVC6;Q13416;Q9Y5S9;P18754;Q14137;O95243;P46937;Q9UKN8;Q9BRG1;Q96RN5;P35637;Q15466;P19838;Q04724;Q99741;Q96F24;P83876;Q12888;Q00653;Q13427;P16220;Q15361;P84103;P20618;Q9HCU8;Q9H1A4;P24385;Q9BXP5;O43148;Q9H3P2;P13010;Q9UBU9;Q15329;Q8IVN3;Q14974;P56282;Q92985;Q0VG06;P84022;Q9HAN9;P49790;Q9UER7;Q13352;Q16621;P62875;P52597;Q13569;Q8IXH7;Q9H501;Q9UNM6;O14893;Q92466;Q6STE5;Q13616;O75496;Q71SY5;Q00597;P62314;Q13112;Q8IZL2;Q8N684;Q9UM13;P10914;Q96G25;Q14181;Q14980;Q96FV9;P40337;P17544;O43290;P30260;P61289;Q9UKF6;Q8NG31;Q7L590;Q9UJX3;O43482;O00267;Q86U42;P40306;Q14188;P51668;Q9NYG5;Q969H0;P29372;Q13617;Q6P0N0;Q15369;O43513;Q99436;Q13033;Q16629;P52434;Q96Q89;Q7Z3B4;P30307;Q6WBX8;Q9P0J0;Q71F23;Q9NVV9;O60216;Q86WQ0;P63272;O15084;Q9BXW9;Q10570;Q14192;Q9BYK8;O14802;P62508;O14757;Q12834;Q14978;Q969L4;O15318;Q9P0W2;Q06609;Q13501;Q8N726;P09874;Q9Y2X0;P62877;Q14498;Q15596;O94913;P18887;Q96GY3;Q96VP2;P18846;Q07955;P52948;P51948;Q04864;Q8N3U4;P52298;P18850;Q9H6Z9;O75531;Q9NYB0;Q8WX92;P05787;P52435;P53803;Q15543;Q8WYQ5;P25789;P24864;P10599;Q9BZI7;P45984;Q9NPG3;Q7RTV0;Q13888;Q9Y3A5;P08047}

4215 Pathogen[ P0C206 ] interacts with 746 human

partners: {P27695;P33316;Q02386;Q9BUJ2;P61289;Q13112;Q9Y253;Q9BRG1;P46937;Q8WXE1;Q9Y468;O43502;P84022;Q15287;Q9NPI8;Q99436;P28062;P10588;Q96RS0;O75683;P05787;O60216;P24863;Q9UNM6;Q53T94;P67809;Q14188;Q9UMS4;Q96PU5;P10914;P33240;Q13501;Q92769;P0CG48;Q8WYP5;O15131;Q9BXL5;Q9P0U4;P62875;P62877;Q9NPD8;P83876;Q8IXH7;Q96Q83;Q15329;Q9UKF6;P28715;Q14103;P13010;Q8N187;P49336;Q9UM54;P14678;Q6K0P9;O60508;Q15466;O75832;Q9BZI7;Q6IPU0;O15360;P45973;P35398;P23193;Q15365;Q96HR3;P61024;P49790;Q9BYG3;Q96ST3;P39687;Q07955;Q9H2F5;P26368;P52298;Q99828;Q16514;P55265;P06401;P31749;O95251;P40306;Q06330;Q9NP71;O75496;P49959;P28065;Q15543;Q9H840;Q96Q89;Q9UJX3;Q9NZI5;P49848;Q9UPN9;P61326;Q01081;Q96AP0;P35251;Q9HAW0;O43592;P36954;Q02078;P55036;Q13263;Q9Y3D8;Q8N726;Q13526;Q15361;P50750;O95602;P30307;Q9Y2N7;Q96KS0;O96017;Q9BT43;Q13309;P20226;Q14137;Q09161;Q9HAU4;Q9BVP2;Q15544;P25786;P55769;P16220;P17275;Q06787;Q9BTP7;O15527;Q8WDX5;P17544;O75925;Q8WUA4;P09874;P25788;Q86YC2;Q9Y248;Q9UNA4;Q9HCU8;P18754;P18850;Q14966;Q7L2Z9;O75419;Q92664;Q13156;O60907;O94913;P25205;P62304;O75582;P25787;P51587;Q05519;Q8IYB3;A9QM74;P45984;Q01860;Q9UJX5;Q15531;Q7Z3B4;O43913;Q08211;Q6NS38;Q9UJX2;Q6ZNA4;Q9GZL7;Q15554;O7517;Q06323;P09012;Q15327;P52657;P50995;Q9UKL0;Q86X55;O60934;O76075;A6H8Y1;O00629;Q9HB96;O75469;Q66LE6;O75081;Q96JK9;O75533;P14866;P52655;Q8IYD8;O00255;Q8TEQ6;Q8WTR7;Q04726;P49720;P61978;Q99717;P19388;Q6STE5;P61218;Q14974;P05412;Q8N684;Q8WW38;O00268;Q9NXV6;Q9NW08;Q14011;P55212;O00505;Q03468;P23409;Q9Y383;Q9NYP9;O75586;Q16666;P15336;P19338;O00232;Q969H0;Q6WBX8;P06746;Q13243;Q12874;Q16629;Q92541;Q04727;Q86U42;Q15572;P55055;Q9UER7;P62314;Q6P2C8;P62316;P20248;O43390;P60900;Q9Y3C7;Q96T23;Q96DE0;Q9BUI4;Q9UDY2;P62837;Q9Y5B9;P42771;Q13342;Q13547;Q14186;P13056;Q16531;Q9BSI4;Q7LG56;Q13416;P30305;O75494;P62826;Q04725;P51003;Q12824;P18846;P49005;P22626;O15318;O15525;Q13616;O00716;P1597



6;P49642;O43809;P49116;P22736;Q5TKA1;P29084;Q9UHV7;P78317;O43242;Q15796;Q99741;P54252;Q13487;Q16829;Q92831;Q9BQA5;O96020;Q0VVG06;Q14669;P33076;Q9BU64;P30260;Q14241;O00482;Q13216;Q02241;Q9Y6X3;Q8NB91;Q9BRT9;Q16254;Q9Y5Q9;O94762;Q9HAV4;Q9P2I0;P28749;P13984;Q9Y535;Q9Y5Q8;O75943;Q53HV7;Q9NVI1;P18146;P07992;P83369;P12755;O75971;O75475;O43290;Q96004;P19447;Q92793;P17861;Q96EZ8;P10589;Q8N6T7;Q9GZV5;O43513;Q9BWX5;Q08999;Q99638;P25789;Q9Y6Y0;Q9Y333;Q96D46;Q9NQV7;P30291;P51965;Q8IVN3;P23246;Q92674;Q5SXM2;Q9BYK8;Q9GZ N2;Q13435;Q9UKT4;P54274;Q9NPG3;O15105;Q92797;O75531;P23490;P63104;Q9H1A4;P43351;O95718;P05423;Q9NVU0;P60228;P53803;Q12983;Q13569;Q9H814;Q14209;Q92750;Q52LA3;Q9UKX7;Q9H3R5;P82970;Q93075;Q12888;Q13617;P19838;P49917;O15514;Q15054;Q9NYG5;P35269;P10828;Q96FV9;P62508;Q9Y5B0;P19387;Q6PI26;Q9UJX4;Q7Z333;Q13888;P38159;Q05048;Q96RN5;Q15007;O15287;O60506;Q9UGN5;Q9P0W2;Q9UQE7;P83916;Q95402;P50613;P49450;O95400;Q8NHY2;O95619;P20618;Q13573;Q9UKN5;Q9BJW5;P12757;O14929;Q14181;P63208;Q8IZL2;Q9UBU7;P35232;Q13200;Q9UBU9;O15379;Q96CJ1;P08047;P18615;P52597;Q13427;Q8NCD3;P28070;P13349;Q9Y2S0;P29083;Q8N488;Q13426;Q14691;O00159;Q9UKN8;Q14683;Q9H944;Q92985;Q14149;Q8WXF1;Q9NJP6;Q14676;O15315;P49711;P57081;Q6NZI2;P01100;Q04206;Q92889;Q99460;Q9H6W3;Q01831;P15923;Q9H211;Q01094;Q14686;P35637;Q6MZF7;Q96F24;P62979;P28347;Q96MU7;Q9Y5N6;Q6P2Q9;Q92759;P46527;P62318;P54727;Q13352;Q7RTV0;Q15370;O14893;P49916;P28066;P38936;Q9UM11;O60921;Q12996;Q04864;O00762;Q9NRR4;O43482;Q9Y2L1;P42574;Q9BZK7;Q15562;O75376;P55795;O00267;Q16533;O60832;O14818;Q9H2G4;Q6P0N0;P40763;Q15573;Q13485;Q9H3P2;Q9UBZ9;Q8IWZ8;P52435;Q71SY5;Q9BXP5;Q86WQ0;Q9BTT4;P62306;Q04818;Q9H116;P62487;O43172;Q9P0J0;P62841;Q15652;Q15366;O00541;P62140;Q9UJX6;P32780;Q04724;P0CG47;Q8NE71;Q96H22;Q15542;Q92966;Q9HAN9;P17096;Q13562;P23769;Q9NYB0;O60244;Q00978;P28072;Q8IX12;P30304;Q86YI8;Q15797;Q86W54;O75691;Q9ULK4;O95639;P84103;P18847;Q8IX07;Q96QD9;P02545;Q13889;Q9UK39;Q8WXH0;P78396;Q9Y3A5;Q9H6Z9;O75362;Q00653;P28702;Q15596;O60671;Q8WX92;Q16576;P56282;Q16621;Q13415;Q01826;Q8N3U4;Q00597;P27540;Q9NVC6;P15172;P20700;Q06609;P28074;P42704;Q14397;O94906;Q92994;P27694;P52747;Q14192;Q9H501;Q09028;O75448;P11388;P11474;Q9NWX5;Q92530;Q9UHI6;P15927;Q12962;P01106;P24928;Q9NZP6;P61077;P49721;O14595;P06748;P55199;Q99594;P14635;Q92945;B2RXF5;Q96DI7;Q92466;Q99814;O15198;P63165;P09661;O15084;P11387;P62987;Q13033;O60583;Q9Y2X0;P41238;Q16637;P14373;Q9BWX9;P62308;Q00987;P10599;Q14980;P39748;P35244;Q9UM13;P08621;Q00403;Q01130;O60675;O14802;Q9UL46;Q66K89;P52294;Q13105;P36873;Q13042;P42224;Q969S8;Q9Y2Y1;Q9H9Y6;O60563;P15880;Q96G25;Q8WYQ5;P12956;Q9HAW4;Q00839;P55210;Q14498;O43148;Q71F23;Q14493;P24864;Q9HCS7;Q9Y5P8;Q01105;P24941;Q15369;Q15788;Q08945;Q15759;Q9NYV6;Q9H1D9;P16455;Q7Z2E3;Q93074;P51668;Q9Y3T9;Q15459;Q14566;P18848;O15304;Q8WVM7;Q8NG31;O00273;Q9Y266;P29372;O00233;P52292;P38432;Q9Y618;P11802;P14316;O95243;P48556;Q9Y250;Q9BVC3;P22674;P11473;P17480;P35658;Q12789;P23025;Q9UIF7;P52630;Q9Y262;Q16401;P31943;P08235;O43316;Q9UI95;P52434;P35638;P17706;P18887;Q99640;Q86WX3;Q15561;O15160;Q8NHZ8;O75182;P33992;P62136;Q92585;Q9NVV9;Q15428;Q9Y5S9;Q86V81;Q9NW38;Q9UKV3;P10827;Q96GY3;O14746;P21675;Q96BD5;P14859;O00231;P51946;P35813;O60264;Q9ULX9;P63272;Q14978;P40337;Q15583;P31350;P12270;Q969L4;P51948;Q9BRP8;P48443;P24385;P54253;Q8NDT2;Q10570;Q16594;Q14653;Q3L8U1;Q9Y2Y4;P12004;P06400;Q7L590;Q15029;P30876;P78549;P57678}

4216

Pathogen[ P03363] interacts with 658 human partners: {Q96D46;Q9UJX2;O60832;Q13112;Q9Y6Y0;P17706;O75717;Q9NYG5;Q14653;Q14978;P62314;P51858;P52630;O95619;P12956;O94762;Q9NW38;Q96RS0;P18887;Q9NVI1;Q9Y5P8;Q9Y535;Q9GZN2;P18848;Q14691;Q13105;Q06787;Q13309;O75081;Q3L8U1;Q13151;Q13042;Q9BXP5;Q8WUA4;Q6P0N0;Q7Z3B4;P10828;P51965;Q15366;Q13427;O00273;Q92885;P19338;P62136;Q9NYP9;O15287;P23246;P29083;P29084;P27694;Q9UGN5;Q9HAW4;Q13487;Q9P2I0;Q9Y5B0;Q7Z333;O15527;Q15370;Q15466;P54727;O15360;Q9GZL7;Q10570;Q04206;P27540;P49848;Q9Y383;P12270;O75683;O75643;P18146;P49116;P19388;P36873;Q52LA3;P24864;Q02386;Q92674;P83916;Q13435;P33316;Q6STE5;Q9BWX9;Q00597;P13984;P02545;O00762;Q9Y468;O95400;P52597;O60563;Q9HAU4;Q96HR3;Q9HAV4;Q9H9Y6;P14373;Q9UHI6;Q15554;Q9NVV9;P09012;Q71SY5;P55199;P11387;Q9UKV3;Q96MU7;Q8WX92;P62140;Q9BTP7;P24863;Q92530;Q14397;Q9UKN5;Q08170;Q8N187;Q15562;P30876;A9QM74;Q93075;Q09028;P13010;Q92831;Q8WYP5;Q86WQ0;Q9HAN9;P51991;P12757;Q9HCS7;P62508;Q01831;P20248;Q96GY3;P25205;Q13888;Q9BXL5;P18847;P45973;P14866;Q05048;Q15393;Q14980;Q9Y266;Q06330;P32780;O14980;P20700;Q16531;Q5TKA1;Q92759;P35637;O75533;Q6MZF7;P19387;O15379;Q9H2F5;P23490;O15304;Q9NVU0;O00505;P61218;Q16514;P09651;P28347;P08579;Q15459;P82970;Q9H1D9;Q969S8;Q9BZK7;Q9NYB0;Q9Y253;P18850;Q9H6Z9;P51946;Q9Y5Q9;Q01826;Q7RTV0;O75376;O60671;O60907;Q16629;P42704;Q9Y3A5;Q92889;P62318;P78317;Q16254;P11474;P16220;P35251;Q86WX3;P23025;Q9NPG3;Q8NHZ8;Q13033;Q13342;Q96JK9;O43316;Q02241;O95602;Q16621;Q9P0U4;Q9UJX3;Q8N488;Q66K89;P24928;Q04726;Q13617;O75475;Q4G0J3;P54252;Q9UER7;Q15427;Q9UPN9;P61289;O00268;Q9BVC3;P62304;P49005;Q9UKX7;O15105;Q01130;Q6P2Q9;O00267;O14746;P24941;Q15797;Q86U44;Q14181;P35244;Q04724;Q9BSI4;Q9UJX5;Q15596;Q9UBU9;Q99828;P15880;Q86U42;Q15369;Q13526;O14893;Q14686;Q16695;P15927;Q9BWF3;P23497;P30260;P06400;P40337;Q15327;Q15652;Q96FV9;P01106;P05787;A6H8Y1;O75691;Q04727;Q92620;Q9BRP8;P06748;O00629;O94913;P28749;P17275;Q96AP0;Q9UJX6;P13349;Q8IXH7;P39687;P49711;P50995;Q92797;P18615;P61326;Q8IWZ8;Q9UK39;Q66LB6;Q9UM11;Q6ZNA4;P52657;P33992;P62306;Q05519;P10588;P35269;P11473;Q16666;P52272;P83369;Q96BD5;Q9UJX4;O96017;Q96QD9;Q15029;O60264;Q15287;P57678;P30304;P29372;Q12962;Q8N684;O43524;P15923;P15336;P63104;Q96T23;Q9Y3B4;Q00403;P55212;Q9BJW5;Q9Y333;P62841;P62316;Q13242;Q96Q83;Q9HCU8;Q14669;P46937;Q16576;Q13426;P28702;Q8IYB3;Q13416;O60583;Q6PI26;P14859;O43809;Q13616;Q53T94;Q16829;Q96020;P63165;P38159;Q00653;Q15544;P26368;Q13415;P62877;Q9Y5B9;P08235;Q6K0P9;Q96PU5;Q92945;P17480;Q9Y250;Q14241;Q12874;Q15717;Q9GZV5;Q8N6T7;Q13156;P49450;P31943;Q08999;Q9BRG1;O43172;P05423;Q9NYV6;Q9P0J0;Q9H2G4;P31749;O15318;Q7Z2E3;P17096;P54274;P14316;P51003;Q9H3P2;P18846;Q01094;Q9Y3D8;P06746;Q9NVC6;Q99741;P61024;O15525;Q96DE0;Q96ST3;O76075;P78396;Q14966;Q13243;P17861;Q9H211;Q8WVM7;Q96RN5;Q8IYD8;Q8WXD5;Q86V81;Q9Y2N7;Q9BQA5;Q9UHV7;O75586;Q15796;P07910;P57081;P84022;Q9Y2L1;Q9UKT4;Q9NZI5;O96004;Q9H1A4;Q9Y618;P49336;Q9UI95;O43290;Q14011;P35638;Q15542;Q969H0;Q9UIF7;P10914;O14929;Q13573;P52298;O43148;P35658;P54253;Q14137;P08621;Q9BYK8;P55265;Q8NG31;Q9H8

40;Q9NRR4;Q15583;P62987;P35398;O75925;Q14209;O95243;Q8NCD3;Q14974;Q92664;Q92966;Q6WBX8;Q96EZ8;Q9Y3T9;Q6NZI2;Q13547;Q92750;Q9UDY2;Q9NUX5;P49790;P22626;P19838;Q99814;Q71F23;P83876;Q93074;Q92793;O75971;Q15365;Q16533;O75448;P26599;P62487;P51668;Q9BYG3;P24385;Q99638;Q15361;P21675;P60228;P33076;Q14103;Q9BWX5;P23193;Q92466;O75496;P55795;Q13569;Q00978;P20226;Q96F24;Q9UM13;P52655;Q9Y2Y4;Q04725;O75362;P43351;Q13485;Q9BTT4;Q8N726;Q95402;Q9NPD8;P23409;Q03468;P63272;P50752;Q08945;Q14186;Q8IX12;O15131;O60921;Q92541;Q07820;Q07955;Q14188;O75531;O60506;Q9NRP6;Q01081;Q8NE71;P35232;Q9BVP2;Q9BZI7;P61978;P05412;Q9H3R5;Q15054;O94906;Q9H116;Q969L4;Q13247;Q15428;Q96CJ1;Q5SXM2;O60675;B2RXF5;Q7L590;Q04864;P55769;P52948;Q06609;Q9HNB96;Q8N3U4;Q9UKL0;O60244;Q9NZP6;Q9Y262;P61077;Q96Q89;P55210;Q12789;Q8TEQ6;Q9UNA4;Q00839;Q15573;Q12834;P09874;P62308;Q9NP71;Q16637;Q8WTR7;Q9UKF6;Q8NHY2;Q8WW38;P84103;O43482;Q9UMS4;Q14498;Q13216;Q9NPI8;Q9ULK4;P08047;O15084;P62837;Q9Y6X3;P11802;Q0VG06;Q9H501;P22674;Q9UKN8;Q14676;O43390;O00716;Q9Y248;Q8WXF1;Q01105;Q14493;Q9UBD5;P51531;P18754;P14678;Q15543;P53803;P17544;P52435;Q9UBZ9;P30307;Q15572;O75943;Q9P0W2;Q86W54;P09661;P62826;Q08211;P52434;O43592;P52292;Q8IVN3;Q9ULX9;Q6P2C8;O95251;Q13352;P15172;O43513;Q9BUJ2;P33240;Q15561;O00541;Q9Y5N6;Q99717;Q96G25;Q9BRT9;Q8WYQ5;P10589;P63208;O15198;P13056;Q99594;Q15329;Q14683;Q9NXV6;Q9Y5Q8;O75182;Q8IZL2;Q15007;Q9Y2S0;Q01860;Q9Y5S9;Q9H814;Q12824;P42771;Q53HV7;Q86X55;P38432;Q9H944;Q12996;O75419;Q12888;Q92585;Q8WXL1;O75494;Q9NQ94;P67809;O14595;Q96DI7;Q86YC2;O15160;P52747;O60508;O60216;Q09161;O43502;Q16594;O15315;P01100;P52294;O14757;O43913;Q14192;Q8NDT2;O0482;P52756;Q02078;Q9Y3C7}

4217 [Cluster 384]GO:0005743+cellular\_component [name] mitochondrial inner membrane [def] "The inner, i.e. lumen-facing, lipid bilayer of the mitochondrial envelope. It is highly folded to form cristae." [GOC

4218 Pathogen[ Q2Q067] interacts with 41 human partners: {O43920;Q56VL3;P31040;Q9BRQ6;O14618;P56181;O75489;O76031;P13073;Q8TAA5;Q330K2;P22557;O96000;O95178;Q9BU61;O43678;O60220;Q9Y5J6;O75251;O75306;P99999;Q9P0J0;P21912;Q9NX63;P62072;E9PQ53;P54098;Q9Y5J7;O43615;P04818;Q9BPW8;O95831;Q99623;Q6DKK2;Q9NRX2;O14925;P40926;P35232;Q9UBX3;Q16836;P24539}

4219 Pathogen[ P0C214] interacts with 81 human partners: {P50440;Q16795;O75306;Q05932;O43678;P22695;Q99643;P04818;P00480;P56556;Q13505;Q86XF0;P54098;Q6DKK2;P28331;Q9BU61;O43920;Q96MF6;O60220;O95299;P17568;P30405;Q9Y512;P34897;Q99623;P48735;P40939;Q99807;P40926;P22557;P36542;Q8WXG1;Q16718;P62072;P53701;O14561;Q9UBX3;O76031;P23786;O95298;O14925;P99999;P12074;Q96KC9;Q9P0J0;O43615;P24539;Q56VL3;Q9NX63;Q86WU2;Q9Y5J9;P10809;Q9Y5J6;P13073;Q8TAA5;O14618;O95202;Q9NRX2;O96000;E9PQ53;Q99766;O95182;O75489;Q3ZCQ8;Q9Y5J7;O14521;P42765;O75251;Q9UI09;P36551;P35232;P22830;Q16762;Q9BRQ6;P21912;Q9H3K2;P56181;O95178;Q9BPW8;Q330K2;Q96NN9}

4220 Pathogen[ P03346] interacts with 53 human partners: {Q56VL3;O14925;Q9BU61;P31040;P56181;Q9NS69;P54098;Q16836;O75489;Q9Y3D7;Q9UBX3;O95714;Q9H3K2;O43678;O95178;O43615;P17152;Q9Y5J7;Q86WU2;Q9BRQ6;P23786;P22557;P21912;O76031;O14618;P99999;Q9Y5J6;Q9NRX2;P24539;O43920;P13073;O60220;Q9Y512;Q16891;P40926;P62072;O95831;E9PQ53;Q9BPW8;Q3ZCQ8;O75251;Q99623;P42765;P35232;O96000;O75306;Q9NX63;Q9P0J0;O95202;Q330K2;Q9UBZ4;Q8TAA5;Q6DKK2}

4221 Pathogen[ Q85601] interacts with 42 human partners: {Q9UBZ4;O14925;P30405;Q9P0J0;P99999;P24539;O95831;Q8TAA5;P00480;Q9UBX3;O95714;O75306;P62072;Q9Y5J9;Q330K2;Q9Y5J6;P21912;O60220;Q9Y5J7;Q9BRQ6;O43678;P56181;Q99623;O96000;Q9Y512;Q9NRX2;P54098;O43920;Q6DKK2;P31040;Q3ZCQ8;O43615;E9PQ53;Q99766;Q16836;Q9NX63;P35232;O76031;Q9BU61;Q13505;O14618;P40926}

4222 Pathogen[ P14079] interacts with 142 human partners: {Q5TGZ0;P56181;P22695;Q7Z4L0;Q9UDX5;Q86XF0;Q3ZCQ8;Q99623;P36542;O43674;O43615;O60397;O43677;O43181;Q9BRQ6;O95169;Q99807;P56134;P56556;P17152;Q9Y3D7;P13073;O95139;P25705;P12074;Q2VYF4;P62072;Q330K2;Q13505;Q9UBZ4;O96000;O95167;O75306;P00395;P00403;P17568;P56385;P10606;Q9NRX2;Q16891;Q9UDW1;Q5VTU8;Q15070;P22557;Q9BUB7;P14927;Q8NE86;P35232;Q86Y39;Q02221;Q9Y5J7;P34897;O95182;Q32NB8;Q15526;P07919;O14925;Q9NS69;Q6P2C0;O14949;P14854;Q9BPW8;P20674;O95831;O75880;Q8NC60;Q86WU2;P03928;P31040;O14548;O43676;O43678;Q9H8M1;P51970;O95178;O75251;O14561;Q9UJZ1;Q9UI09;P00156;O95299;E9PQ53;P09669;Q9P0J0;Q9Y512;Q9Y5U8;Q96MF6;Q99766;P22830;Q9Y3A0;P10620;Q6DKK2;Q96KJ9;P00480;O75964;Q99595;Q16762;O75489;Q8N442;Q9H3K2;P60602;P03923;O60220;O95563;P24310;Q16718;P03897;P56381;P15954;O14521;O43920;O15239;Q5SRD1;P54098;O76031;Q96KC9;P36551;Q8TF08;P50440;P99999;O43819;P24539;O75616;O00483;P53701;Q9Y5J9;P04818;O14618;P14406;Q56VL3;P03901;Q9H300;P03886;Q05932;Q9Y5L4;O95202;Q9BU61;O95298;Q8WXG1;Q16836;Q8TAA5;P21912}

4223 Pathogen[ P03383] interacts with 39 human partners: {Q56VL3;P13073;Q9Y5J7;Q330K2;P40926;O75251;Q9NX63;P62072;Q9BU61;P31040;O96000;O43678;O14925;O43920;Q9BRQ6;O43615;Q16836;O75489;O95831;O60220;Q9NRX2;O75306;O95178;P54098;Q9Y5J6;Q6DKK2;P99999;P35232;Q8TAA5;E9PQ53;P17152;O76031;Q9P0J0;Q9Y5J9;P56181;P24539;Q9BPW8;Q99623;Q13505}

4224 Pathogen[ P03410] interacts with 148 human partners: {O95168;O43674;Q5SRD1;O95563;Q9Y5L4;Q9Y512;P56556;Q96KJ9;Q02221;Q96KC9;Q9BUB7;P17568;P62072;Q8TF08;Q99766;Q9Y3A0;O95178;P36542;O75380;O43678;Q56VL3;P25705;O75251;O14548;P15954;O95299;Q9Y5J7;P51970;Q6P2C0;O43920;Q9UI09;Q13505;P05141;O96000;Q8TAA5;P07919;P20674;O95167;Q9NS69;P56385;Q6DKK2;O15239;Q9Y6M9;P23786;O60397;Q9UBX3;Q8NC60;P36551;Q8WXG1;P42765;P13073;Q8N442;O14925;Q99595;P56381;P00480;P22695;Q8NE86;P22557;O76031;Q9UBZ4;Q9H8M1;P03886;O00483;Q99623;O95298;Q9BU61;Q5VTU8;O75438;Q9NRX2;Q9UDW1;Q3ZCQ8;E9PQ53;P56181;P04818;P00156;Q16762;O14561;Q86XF0;P14927;P60602;P22830;P53701;O43615;P31040;P03928;Q9Y3D7;O75489;P24539;Q86Y39;O95831;Q2VYF4;P21912;Q9UJZ1;Q9Y5U8;O75964;P99999;Q9NX63;P09669;Q16836;Q9Y5J6;Q99643;P03897;O43677;P40926;Q9Y5J9;O95169;Q330K2;Q9BPW8;O43181;O14521;Q16718;P24310;O75306;O60220;P00403;Q9BRQ6;O43676;O14949;P14854;

Q9H3K2;P17152;Q99807;Q15070;P03901;Q9P0J0;P03923;O14618;Q16891;Q96MF6;P35232;O95202;Q05932;P50440;P54098;O75880;P18859;P30405;P34897;P56134;P10606;O43819;P12074;O95182;O75616;Q16635;P14406;Q86WU2}

4225 Pathogen[ P14075] interacts with 57 human partners: {O43674;O14925;Q56VL3;Q13505;P56181;Q9NRX2;P54098;Q9Y5J9;Q9NX63;P62072;O96000;O95182;O43677;Q8TAA5;P13073;Q15070;P40926;P31040;O43920;O75306;O14561;O76031;O95298;O43678;P35232;P17152;Q96KC9;Q96MF6;Q9BU61;P60602;Q9Y512;P14406;P99999;Q99623;O95831;Q330K2;O75251;Q16836;O60220;Q99766;P24539;E9PQ53;Q9BRQ6;Q9Y5J7;P56385;O75489;Q9BUB7;O95178;P50440;Q9P0J0;Q9Y5J6;Q9BPW8;Q9NS69;O43615;Q6DKK2;O43676;Q9Y5U8}

4226 Pathogen[ P0C206] interacts with 97 human partners: {Q6P2C0;Q9UJZ1;P99999;P56181;Q96KC9;Q9Y5L4;Q9Y5J6;P53701;O75251;Q99766;Q9UDW1;Q9Y5U8;O43920;Q9BU61;Q330K2;O14521;O75306;P12074;Q96MF6;O95202;P14406;Q16836;P36542;Q8NE86;Q99623;O95182;O60220;P36551;Q9BUB7;Q86WU2;P54098;Q9Y5J9;P34897;Q9UBX3;Q9UBZ4;Q9NRX2;Q16891;Q9UI09;Q9Y512;Q9Y5J7;P23786;Q5SRD1;O95298;P22695;O14561;Q56VL3;Q9H3K2;O43615;Q3ZCQ8;Q6DKK2;Q9NX63;O00483;Q15070;Q9Y3D7;P17568;O95831;Q9NS69;P35232;O95178;P22557;P50440;Q99807;O14618;P13073;P40926;P22830;O14925;P31040;P24539;P17152;Q8TAA5;Q9Y3A0;Q13505;P04818;Q9P0J0;P62072;O43678;O75489;P56381;E9PQ53;Q16762;O76031;P30405;P21912;Q9BRQ6;Q8WXG1;Q9H8M1;O96000;O43674;P56385;O95714;P60602;P00480;P56556;Q02221;Q05932;Q9BPW8}

4227 Pathogen[ P03363] interacts with 27 human partners: {Q16836;Q99623;P31040;Q330K2;P99999;O14925;Q3ZCQ8;P54098;O43615;Q6DKK2;Q9NRX2;Q9P0J0;Q9Y5J7;Q9BRQ6;Q8TAA5;Q9Y512;O76031;O95714;P35232;O14618;Q9BU61;Q9H3K2;O96000;Q9NX63;Q9NS69;P56181;O95831}

4228 [Cluster 385]GO:0005680+C cellular\_component [name] anaphase-promoting complex [def] "A ubiquitin ligase complex that degrades mitotic cyclins and anaphase inhibitory protein, thereby triggering sister chromatid separation and exit from mitosis. Substrate recognition by APC occurs through degradation signals, the most common of which is termed the D-box degradation motif, originally discovered in cyclin B." [GOC]

4229 Pathogen[ Q2Q067] interacts with 19 human partners: {Q9UJX3;Q9UJX5;O00762;Q9NYG5;Q9H1A4;Q9UJX2;Q9UM13;Q96DE5;Q12834;Q8NHZ8;Q9UM11;Q9UJX4;Q9UI95;Q9UJX6;P60006;P30260;Q13042;Q9BS18;Q14999}

4230 Pathogen[ P0C214] interacts with 20 human partners: {Q9UJX6;Q16763;Q9BS18;O00762;Q9UJX5;Q14999;Q9UJX2;Q9UI95;Q9H1A4;Q8NHZ8;Q12834;Q9UJX4;P60006;Q9UJX3;Q9UM11;P30260;Q9NYG5;Q9UM13;Q96DE5;Q13042}

4231 Pathogen[ P03346] interacts with 19 human partners: {P60006;Q9UM11;Q9BS18;Q9UM13;Q9NYG5;Q9UI95;Q12834;Q9UJX6;Q96DE5;Q13042;Q9UJX5;O00762;Q9UJX2;Q9UJX3;Q8NHZ8;Q9H1A4;Q9UJX4;Q14999;P30260}

4232 Pathogen[ Q85601] interacts with 20 human partners: {Q9UJX2;Q96DE5;Q9UJX6;Q16763;Q9UI95;Q9BS18;Q8NHZ8;P60006;Q9H1A4;Q12834;Q13042;Q9UJX5;Q9UM13;Q9NYG5;O00762;Q9UJX3;Q9UJX4;Q9UM11;Q14999;P30260}

4233 Pathogen[ P14079] interacts with 16 human partners: {Q9UJX3;Q9H1A4;Q9UJX5;P60006;Q9NYG5;Q8NHZ8;Q9UM11;Q9UM13;Q13042;Q96DE5;Q9UJX6;P30260;O00762;Q9UJX4;Q14999;Q9BS18}

4234 Pathogen[ P03383] interacts with 19 human partners: {Q8NHZ8;Q96DE5;Q9NYG5;Q9UJX6;Q9UI95;O00762;Q9H1A4;Q13042;Q12834;P60006;Q9UM13;Q9UM11;Q9BS18;Q9UJX4;Q9UJX5;Q9UJX2;P30260;Q9UJX3;Q14999}

4235 Pathogen[ P03410] interacts with 17 human partners: {Q9BS18;Q9UI95;Q9H1A4;Q9UJX4;Q9NYG5;Q9UM13;Q8NHZ8;Q9UM11;Q13042;Q96DE5;Q9UJX5;Q12834;P30260;Q9UJX3;O00762;P60006;Q9UJX6}

4236 Pathogen[ P14075] interacts with 19 human partners: {Q9BS18;P60006;Q13042;Q9UM11;Q9UI95;Q9UJX2;Q9UJX6;Q8NHZ8;Q14999;Q96DE5;O00762;Q9UJX5;Q9UJX4;Q9H1A4;Q9UM13;P30260;Q9UJX3;Q9NYG5;Q12834}

4237 Pathogen[ P0C206] interacts with 20 human partners: {Q16763;Q9UJX3;Q9UJX5;Q9UJX2;P30260;Q9BS18;Q14999;Q9H1A4;Q9NYG5;Q9UJX4;Q9UM11;O00762;Q9UJX6;Q96DE5;P60006;Q9UM13;Q13042;Q12834;Q9UI95;Q8NHZ8}

4238 Pathogen[ P03363] interacts with 19 human partners: {Q9UJX2;Q9NYG5;Q13042;O00762;Q96DE5;Q8NHZ8;Q9UJX3;Q9UJX5;P30260;Q9UJX6;Q9UM11;Q9BS18;Q9UJX4;P60006;Q14999;Q9H1A4;Q9UI95;Q9UM13;Q12834}

4239 [Cluster 386]GO:0071821+C cellular\_component [name] FANCM-MHF complex [def] "A protein complex contains the proteins FANCM and MHF, or their orthologs, plays an essential role in DNA remodeling, protects replication forks, and is conserved in eukaryotes." [GOC]

4240 Pathogen[ Q2Q067] interacts with 3 human partners: {Q8N2Z9;A8MT69;Q8IYD8}

4241 Pathogen[ P0C214] interacts with 2 human partners: {Q8N2Z9;Q8IYD8}

4242 Pathogen[ P03346] interacts with 3 human partners: {Q8N2Z9;A8MT69;Q8IYD8}

4243 Pathogen[ Q85601] interacts with 3 human partners: {Q8IYD8;A8MT69;Q8N2Z9}

4244 Pathogen[ P14079] interacts with 3 human partners: {Q8IYD8;Q8N2Z9;A8MT69}

4245 Pathogen[ P03383] interacts with 2 human partners: {Q8N2Z9;A8MT69}

4246 Pathogen[ P03410] interacts with 3 human partners: {Q8IYD8;A8MT69;Q8N2Z9}

4247 Pathogen[ P14075] interacts with 2 human partners: {A8MT69;Q8N2Z9}

4248 Pathogen[ P0C206] interacts with 3 human partners: {Q8IYD8;Q8N2Z9;A8MT69}

4249 Pathogen[ P03363] interacts with 3 human partners: {Q8N2Z9;Q8IYD8;A8MT69}

4250 [Cluster 387]GO:0022626+C cellular\_component [name] cytosolic ribosome [def] "A ribosome located in the cytosol." [GOC]

4251 Pathogen[ Q2Q067] interacts with 2 human partners: {P26373;Q9UHK0}

4252 Pathogen[ P0C214] interacts with 2 human partners: {P26373;Q9UHK0}

4253 Pathogen[ P03346] interacts with 2 human partners: {Q9UHK0;P26373}

4254 Pathogen[ Q85601] interacts with 2 human partners: {P26373;Q9UHK0}

4255 Pathogen[ P14079] interacts with 2 human partners: {P26373;Q9UHK0}

4256 Pathogen[ P03383] interacts with 2 human partners: {P26373;Q9UHK0}

4257 Pathogen[ P03410] interacts with 2 human partners: {P26373;Q9UHK0}

4258 Pathogen[ P14075] interacts with 2 human partners: {Q9UHK0;P26373}

4259 Pathogen[ P0C206] interacts with 2 human partners: {Q9UHK0;P26373}

4260 Pathogen[ P03363] interacts with 2 human partners: {Q9UHK0;P26373}

4261 [Cluster 388]GO:0034098+C cellular\_component [name] Cdc48p-Npl4p-Ufd1p AAA ATPase complex [def] "A multiprotein ATPase complex required for the efficient dislocation of ER-luminal degradation substrates, and their subsequent proteolysis by the proteasome. In budding yeast, this complex includes Cdc48p, Npl4p and Ufd1p proteins." [PMID

4262 Pathogen[ Q2Q067] interacts with 4 human partners: {Q96CS3;Q04323;Q9UNN5;O94888}

4263 Pathogen[ P0C214] interacts with 4 human partners: {O94888;Q9UNN5;Q04323;Q96CS3}

4264 Pathogen[ P03346] interacts with 4 human partners: {O94888;Q96CS3;Q9UNN5;Q04323}

4265 Pathogen[ Q85601] interacts with 4 human partners: {Q96CS3;O94888;Q9UNN5;Q04323}

4266 Pathogen[ P14079] interacts with 4 human partners: {O94888;Q96CS3;Q9UNN5;Q04323}

4267 Pathogen[ P03383] interacts with 4 human partners: {Q04323;O94888;Q9UNN5;Q96CS3}

4268 Pathogen[ P03410] interacts with 4 human partners: {Q9UNN5;Q04323;Q96CS3;O94888}

4269 Pathogen[ P14075] interacts with 4 human partners: {Q96CS3;O94888;Q04323;Q9UNN5}

4270 Pathogen[ P0C206] interacts with 4 human partners: {Q9UNN5;Q04323;O94888;Q96CS3}

4271 Pathogen[ P03363] interacts with 4 human partners: {Q9UNN5;Q04323;O94888;Q96CS3}

4272 [Cluster 389]GO:0097196+C cellular\_component [name] Shu complex [def] "A protein complex involved in error-free DNA post-replication repair (PRR). In *Saccharomyces cerevisiae* the complex contains Csm2p, Psy3p, Shulp, and Shu2p." [GOC

4273 Pathogen[ Q2Q067] interacts with 2 human partners: {Q6NVH7;Q19AV6}

4274 Pathogen[ P0C214] interacts with 2 human partners: {Q6NVH7;Q19AV6}

4275 Pathogen[ P03346] interacts with 2 human partners: {Q19AV6;Q6NVH7}

4276 Pathogen[ Q85601] interacts with 2 human partners: {Q19AV6;Q6NVH7}

4277 Pathogen[ P14079] interacts with 2 human partners: {Q6NVH7;Q19AV6}

4278 Pathogen[ P03383] interacts with 2 human partners: {Q6NVH7;Q19AV6}

4279 Pathogen[ P03410] interacts with 2 human partners: {Q19AV6;Q6NVH7}

4280 Pathogen[ P14075] interacts with 2 human partners: {Q19AV6;Q6NVH7}

4281 Pathogen[ P0C206] interacts with 2 human partners: {Q19AV6;Q6NVH7}

4282 Pathogen[ P03363] interacts with 2 human partners: {Q19AV6;Q6NVH7}

4283 [Cluster 390]GO:0070969+C cellular\_component [name] ULK1-ATG13-FIP200 complex [def] "A protein complex that is essential for mammalian autophagy, and consists of at least 3 proteins

4284 Pathogen[ Q2Q067] interacts with 2 human partners: {Q8TDY2;O75143}

4285 Pathogen[ P0C214] interacts with 2 human partners: {Q8TDY2;O75143}

4286 Pathogen[ P03346] interacts with 2 human partners: {O75143;Q8TDY2}

4287 Pathogen[ Q85601] interacts with 2 human partners: {O75143;Q8TDY2}

4288 Pathogen[ P14079] interacts with 2 human partners: {Q8TDY2;O75143}

4289 Pathogen[ P03383] interacts with 2 human partners: {O75143;Q8TDY2}

4290 Pathogen[ P03410] interacts with 2 human partners: {O75143;Q8TDY2}

4291 Pathogen[ P14075] interacts with 2 human partners: {O75143;Q8TDY2}

4292 Pathogen[ P0C206] interacts with 2 human partners: {Q8TDY2;O75143}

4293 Pathogen[ P03363] interacts with 2 human partners: {O75143;Q8TDY2}

4294 [Cluster 391]GO:0005932+C cellular\_component [name] microtubule basal body [def] "A short cylindrical array of microtubules and associated proteins found at the base of a eukaryotic cilium or flagellum that is similar in structure to a centriole. The basal body serves as a nucleation site for axoneme growth." [GOC

4295 Pathogen[ Q2Q067] interacts with 17 human partners: {O75161;Q8TCI5;Q8IY31;Q96QF0;Q9Y3M2;Q9BYV8;Q9NXB0;O15078;Q86VQ0;O75665;Q96NB1;Q717R9;P41208;Q9NWB7;O15182;Q9BPU9;Q9BV73}

4296 Pathogen[ P0C214] interacts with 14 human partners: {Q9NWB7;O15078;O75161;Q8IY31;Q9BYV8;Q8TCI5;Q9NXB0;Q9BPU9;Q9Y3M2;P41208;O75665;Q9BV73;Q96QF0;Q96NB1}

4297 Pathogen[ P03346] interacts with 26 human partners: {Q86VQ0;Q9NQC8;Q9Y3M2;Q9BPU9;Q8IY31;Q68CZ1;Q9H3S7;Q9HBG6;Q8TAM2;P41208;O75161;Q9NXB0;O75665;Q9NWB7;Q8N841;Q8N157;Q9BYV8;Q717R9;Q8TCI5;O15182;O15078;Q92834;Q96NB1;Q6EMB2;Q96QF0;Q9BV73}

4298 Pathogen[ Q85601] interacts with 17 human partners: {O75161;O15182;Q9Y3M2;Q9NWB7;O15078;Q92834;Q8TCI5;Q9NXB0;O75665;Q9BV73;Q86VQ0;Q9BYV8;Q9BPU9;Q8IY31;Q96NB1;Q96QF0;P41208}

4299 Pathogen[ P14079] interacts with 38 human partners: {Q9PON5;O75161;Q9NWB7;Q8IY31;Q96GX1;Q8N157;Q68CZ1;Q92834;Q717R9;Q8N3I7;Q9BV73;P57679;Q86UK5;A6PVL3;Q9UPM9;Q8NBT0;Q8TCI5;Q8TAM2;Q96QF0;Q4AC94;Q8N841;Q9BPU9;Q8TCU4;Q9P2L0;P41208;Q8TC44;Q9Y3M2;O15078;Q6EMB2;Q9P2K1;Q9NQC8;O15182;O75665;Q86VQ0;Q9NXB0;Q9BYV8;Q6IQ19;Q96NB1}

4300 Pathogen[ P03383] interacts with 15 human partners: {Q9NWB7;Q96QF0;Q8IY31;P41208;Q9BV73;Q8TCI5;Q96NB1;Q9NXB0;Q86VQ0;O15078;Q9BYV8;Q9Y3M2;Q717R9;O75161;O75665}

4301 Pathogen[ P03410] interacts with 40 human partners: {O75665;Q717R9;Q86VQ0;A6PVL3;Q96NB1;Q96RY7;Q9Y3M2;Q4AC94;Q8TAM2;Q8NBT0;O15182;O75161;Q8TCU4;Q8TCX1;Q9BYV8;Q96GX1;Q6IQ19;Q9BPU9;Q8IY31;Q9NWB7;Q8N157;Q9PON5;O15078}

;Q8N3I7;Q9P2K1;Q9UPM9;Q92834;Q96QF0;Q8TC44;Q8TCI5;Q9HBG6;Q9NXB0;Q9NQC8;Q9P2L0;Q8N841;Q68CZ1;P41208;Q9BV73;Q6EMB2;Q86UK5}

4302 Pathogen[ P14075] interacts with 17 human partners:{Q9BYV8;Q8IY31;Q86VQ0;Q9NXB0;O15078;O75161;Q6IQ19;Q96NB1;Q9BV73;Q9BPU9;Q8TCI5;Q9NWB7;P41208;Q96QF0;Q717R9;O75665;Q9Y3M2}

4303 Pathogen[ P0C206] interacts with 27 human partners:{Q9BPU9;Q8TCI5;Q9NQC8;O15182;Q9UPM9;Q8TAM2;O75161;Q8IY31;Q8TCU4;Q9P2K1;Q86VQ0;Q8N3I7;Q96QF0;Q717R9;Q9NWB7;Q6IQ19;O15078;Q8N841;Q8N157;Q9BYV8;Q9BV73;O75665;P41208;Q9NXB0;Q96NB1;Q92834;Q6EMB2}

4304 Pathogen[ P03363] interacts with 29 human partners:{O75161;Q9H3S7;Q6EMB2;Q86VQ0;Q8TAM2;Q9BYV8;O15078;Q8NBT0;Q9P2K1;Q8TCI5;Q9Y3M2;P41208;Q9NWB7;Q717R9;Q8N157;Q8IY31;Q6IQ19;Q9BPU9;Q9HBG6;Q8N841;Q96NB1;O15182;Q92834;Q9NXB0;Q9BV73;Q9NQC8;Q8TC44;Q96QF0;O75665}

4305 [Cluster 392]GO:0031594+C cellular\_component [name] neuromuscular junction [def] "The junction between the axon of a motor neuron and a muscle fiber. In response to the arrival of action potentials, the presynaptic button releases molecules of neurotransmitters into the synaptic cleft. These diffuse across the cleft and transmit the signal to the postsynaptic membrane of the muscle fiber, leading to a post-synaptic potential responsible of the muscle contraction." [GOC

4306 Pathogen[ Q2Q067] interacts with 9 human partners:{P56524;Q9H7C4;Q12959;P46939;Q53G26;P35579;P07197;Q96EY1;P17661}

4307 Pathogen[ P0C214] interacts with 10 human partners:{Q9H7C4;P56524;P35580;P46939;P07093;Q53G26;Q12959;P07197;Q96EY1;P17661}

4308 Pathogen[ P03346] interacts with 9 human partners:{P35579;P56524;P46939;P07197;P17661;Q53G26;Q9H7C4;Q96EY1;Q12959}

4309 Pathogen[ Q85601] interacts with 11 human partners:{P17661;P35579;Q53G26;P46939;Q12959;P07197;P56524;P35580;P07093;Q96EY1;Q9H7C4}

4310 Pathogen[ P14079] interacts with 9 human partners:{P35579;Q9H7C4;P46939;Q15078;P07197;P17661;P56524;O43761;Q96EY1}

4311 Pathogen[ P03383] interacts with 9 human partners:{P17661;P46939;P07197;P35580;Q9H7C4;P56524;P35579;Q96EY1;Q53G26}

4312 Pathogen[ P03410] interacts with 11 human partners:{Q53G26;P17661;Q12959;P35579;O43761;Q9H7C4;P56524;P46939;P35580;Q96EY1;P07197}

4313 Pathogen[ P14075] interacts with 8 human partners:{P56524;P17661;Q53G26;Q9H7C4;P46939;P35579;P07197;Q96EY1}

4314 Pathogen[ P0C206] interacts with 10 human partners:{P46939;P17661;Q53G26;P35579;Q9H7C4;P56524;Q96EY1;P35580;Q12959;P07197}

4315 Pathogen[ P03363] interacts with 8 human partners:{Q12959;P46939;P07197;P35579;Q53G26;Q9H7C4;P17661;Q96EY1}

4316 [Cluster 393]GO:0031264+C cellular\_component [name] death-inducing signaling complex [def] "A protein complex formed by the association of signaling proteins with a death receptor upon ligand binding. The complex includes procaspases and death domain-containing proteins in addition to the ligand-bound receptor." [PMID

4317 Pathogen[ Q2Q067] interacts with 3 human partners:{O15519;Q13158;Q14790}

4318 Pathogen[ P0C214] interacts with 3 human partners:{Q13158;O15519;Q14790}

4319 Pathogen[ P03346] interacts with 3 human partners:{Q13158;O15519;Q14790}

4320 Pathogen[ Q85601] interacts with 3 human partners:{Q13158;Q14790;O15519}

4321 Pathogen[ P14079] interacts with 3 human partners:{O15519;Q14790;Q13158}

4322 Pathogen[ P03383] interacts with 1 human partners:{Q13158}

4323 Pathogen[ P03410] interacts with 2 human partners:{O15519;Q13158}

4324 Pathogen[ P14075] interacts with 1 human partners:{Q13158}

4325 Pathogen[ P0C206] interacts with 3 human partners:{Q13158;O15519;Q14790}

4326 Pathogen[ P03363] interacts with 2 human partners:{O15519;Q13158}

4327 [Cluster 394]GO:0000805+C cellular\_component [name] X chromosome [def] "The sex chromosome present in both sexes of species in which the male is the heterogametic sex. Two copies of the X chromosome are present in each somatic cell of females and one copy is present in males." [GOC

4328 Pathogen[ Q2Q067] interacts with 2 human partners:{O75182;P24941}

4329 Pathogen[ P0C214] interacts with 2 human partners:{P24941;O75182}

4330 Pathogen[ P03346] interacts with 2 human partners:{P24941;O75182}

4331 Pathogen[ Q85601] interacts with 2 human partners:{O75182;P24941}

4332 Pathogen[ P14079] interacts with 1 human partners:{O75182}

4333 Pathogen[ P03383] interacts with 2 human partners:{O75182;P24941}

4334 Pathogen[ P03410] interacts with 2 human partners:{O75182;P24941}

4335 Pathogen[ P14075] interacts with 2 human partners:{P24941;O75182}

4336 Pathogen[ P0C206] interacts with 2 human partners:{P24941;O75182}

4337 Pathogen[ P03363] interacts with 2 human partners:{P24941;O75182}

4338 [Cluster 395]GO:0005690+C cellular\_component [name] U4atac snRNP [def] "A ribonucleoprotein complex that contains small nuclear RNA U4atac." [GOC

4339 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8WWY3}

4340 Pathogen[ P0C214] interacts with 1 human partners:{Q8WWY3}

4341 Pathogen[ P03346] interacts with 1 human partners:{Q8WWY3}

4342 Pathogen[ Q85601] interacts with 1 human partners:{Q8WWY3}

4343 Pathogen[ P14079] interacts with 1 human partners:{Q8WWY3}

4344 Pathogen[ P03383] interacts with 1 human partners:{Q8WWY3}

4345 Pathogen[ P03410] interacts with 1 human partners:{Q8WWY3}

4346 Pathogen[ P14075] interacts with 1 human partners:{Q8WWY3}

4347 Pathogen[ P0C206] interacts with 1 human partners:{Q8WWY3}

4348 Pathogen[ P03363] interacts with 1 human partners:{Q8WWY3}

4349 [Cluster 396]GO:0017053+C cellular\_component [name] transcriptional repressor complex [def] "A protein complex that possesses activity that prevents or downregulates transcription." [GOC

4350 Pathogen[ Q2Q067] interacts with 37 human partners:{P56524;P29374;Q9HAZ2;Q01664;Q99708;Q9NZL3;Q05516;Q9NVW2;Q99684;O15379;P15976;Q96ST3;Q02447;Q96T58;Q53H80;Q9UKL0;Q5TB30;Q9UHI6;P12755;Q969G3;Q92769;Q13127;Q8IX07;O60907;Q13363;P41162;Q96QT6;Q9BZK7;P31946;Q13901;Q9Y618;Q8TAQ2;Q9GZX5;P45973;O75376;Q13227;Q8N108}

4351 Pathogen[ P0C214] interacts with 36 human partners:{Q96T58;Q13363;Q5TB30;O60907;Q96QT6;Q99708;P56524;Q53H80;Q13901;Q8TAQ2;Q9GZX5;Q969G3;Q9UKL0;Q9NVW2;Q92769;Q8N108;Q9HAZ2;O75376;Q9UHI6;O15379;Q8IX07;P12755;Q13127;Q13227;P05412;Q02447;Q9BZK7;Q96ST3;P45973;Q99684;P41162;P31946;Q9NZL3;Q9Y618;Q01664;Q05516}

4352 Pathogen[ P03346] interacts with 41 human partners:{Q96ST3;P05412;P45973;O60907;P29374;Q9UKL0;O15379;Q99626;Q99708;P56524;Q96QT6;Q53H80;Q5TB30;P41162;Q13227;P15976;Q99684;Q92769;Q86VZ6;Q9UHI6;Q8IX07;O75376;Q96T58;Q05516;Q969G3;P31946;Q8N108;Q9BZK7;P51858;Q13363;Q9GZX5;P56545;Q9NZL3;Q9HAZ2;Q9Y618;Q8TAQ2;Q02447;Q01664;Q13901;Q9NVW2;Q13127}

4353 Pathogen[ Q85601] interacts with 37 human partners:{P31946;Q13127;P15976;Q96QT6;O60907;Q99708;Q9Y618;Q5TB30;Q13363;P41162;P12755;Q53H80;Q9GZX5;Q969G3;Q13901;Q92769;P45973;Q9NZL3;Q9UHI6;P05412;Q8IX07;O75376;Q8N108;Q96T58;Q02447;Q99684;Q05516;Q9BZK7;P56524;O15379;Q8TAQ2;Q9UKL0;Q01664;Q13227;Q9NVW2;Q9HAZ2;Q96ST3}

4354 Pathogen[ P14079] interacts with 35 human partners:{O15379;Q9HAZ2;Q53H80;P12755;Q9BZK7;Q8N108;Q96ST3;Q13901;Q86VZ6;Q9GZX5;Q99684;O60907;Q02447;P15976;Q8TAQ2;Q9UHI6;P45973;Q9NZL3;Q96QT6;Q92769;P29374;P31946;Q99708;Q01664;Q8IX07;Q5TB30;Q9UKL0;Q13227;O75376;P41162;P05412;P56524;Q13127;Q96T58}

4355 Pathogen[ P03383] interacts with 32 human partners:{Q9Y618;O75376;P31946;O60907;Q9UHI6;Q96QT6;Q05516;Q9GZX5;P41162;Q01664;Q9HAZ2;Q53H80;P45973;Q02447;Q92769;O15379;Q8TAQ2;Q96T58;Q99684;Q9UKL0;Q99708;Q8N108;Q9BZK7;P56524;Q13227;Q96ST3;Q9NZL3;Q13363;Q13901;Q13127;P05412}

4356 Pathogen[ P03410] interacts with 35 human partners:{Q96QT6;Q5TB30;Q13227;P29374;Q9NZL3;Q99708;P41162;Q9HAZ2;P12755;Q02447;P45973;O75376;Q99684;Q96ST3;Q96T58;Q13127;Q8IX07;Q969G3;Q92769;O15379;P56524;Q53H80;Q9GZX5;P05412;Q8N108;Q13901;Q01664;Q8TAQ2;Q9BZK7;Q9UKL0;Q9Y618;Q9UHI6;O60907;P15976;P31946}

4357 Pathogen[ P14075] interacts with 31 human partners:{Q9NZL3;Q96ST3;Q96QT6;P05412;Q13901;Q9UKL0;Q96T58;P56524;Q53H80;P45973;Q9Y618;O75376;Q9HAZ2;P41162;Q9UHI6;Q8N108;Q01664;Q99684;Q92769;Q8TAQ2;O60907;Q13227;O15379;Q02447;Q9BZK7;Q13127;Q05516;P31946;Q13363;Q9GZX5;Q99708}

4358 Pathogen[ P0C206] interacts with 39 human partners:{Q86VZ6;Q92769;P45973;Q96ST3;Q9HAZ2;Q13127;Q9NVW2;Q99708;O60907;Q05516;Q9UKL0;P29374;P05412;P15976;Q8TAQ2;P12755;Q9NZL3;P31946;P41162;O15379;Q02447;Q13901;Q9BZK7;O75376;Q9GZX5;Q96T58;Q99684;Q01664;Q5TB30;Q8IX07;Q969G3;Q9UHI6;Q96QT6;P56524;Q13363;Q53H80;Q13227;Q9Y618;Q8N108}

4359 Pathogen[ P03363] interacts with 37 human partners:{P51858;Q96QT6;Q99684;P29374;Q96T58;Q9NZL3;Q99626;Q13227;Q9UHI6;Q02447;P45973;Q8TAQ2;O15379;Q9BZK7;P31946;O75376;O60907;P56545;Q13901;Q86VZ6;Q13127;Q99708;Q969G3;Q96ST3;Q8N108;Q9Y618;Q5TB30;P41162;P05412;Q9UKL0;Q9NVW2;Q13363;Q53H80;Q05516;Q9GZX5;Q01664;Q9HAZ2}

4360 [Cluster 397]GO:0070820+C cellular\_component [name] tertiary granule [def] "A secretory granule that contains cathepsin and gelatinase and is readily exocytosed upon cell activation\_ found primarily in mature neutrophil cells." [GOC

4361 Pathogen[ Q2Q067] interacts with 2 human partners:{O00186;Q15833}

4362 Pathogen[ P0C214] interacts with 2 human partners:{Q15833;O00186}

4363 Pathogen[ P03346] interacts with 2 human partners:{Q15833;O00186}

4364 Pathogen[ Q85601] interacts with 2 human partners:{O00186;Q15833}

4365 Pathogen[ P14079] interacts with 2 human partners:{O00186;Q15833}

4366 Pathogen[ P03383] interacts with 1 human partners:{O00186}

4367 Pathogen[ P03410] interacts with 2 human partners:{Q15833;O00186}

4368 Pathogen[ P14075] interacts with 1 human partners:{O00186}

4369 Pathogen[ P0C206] interacts with 2 human partners:{Q15833;O00186}

4370 Pathogen[ P03363] interacts with 2 human partners:{O00186;Q15833}

4371 [Cluster 398]GO:0001534+C cellular\_component [name] radial spoke [def] "Protein complex that links the outer microtubule doublet of the ciliary or flagellum axoneme with the sheath that surrounds the central pair of microtubules. Composed of a stalk that attaches to each doublet microtubule and a globular structure (spoke head) that projects toward the central pair of microtubules." [ISBN

4372 Pathogen[ Q2Q067] interacts with 1 human partners:{Q5TD94}

4373 Pathogen[ P0C214] interacts with 1 human partners:{Q5TD94}

4374 Pathogen[ P03346] interacts with 1 human partners:{Q5TD94}

4375 Pathogen[ Q85601] interacts with 1 human partners:{Q5TD94}

4376 Pathogen[ P14079] interacts with 1 human partners:{Q5TD94}

4377 Pathogen[ P03383] interacts with 1 human partners:{Q5TD94}

4378 Pathogen[ P03410] interacts with 1 human partners:{Q5TD94}

4379 Pathogen[ P14075] interacts with 1 human partners:{Q5TD94}

4380 Pathogen[ P0C206] interacts with 1 human partners:{Q5TD94}

4381 Pathogen[ P03363] interacts with 1 human partners:{Q5TD94}

4382 [Cluster 399]GO:0030981+C cellular\_component [name] cortical microtubule cytoskeleton [def] "The portion of the microtubule cytoskeleton that lies just beneath the plasma membrane." [GOC

4383 Pathogen[ Q2Q067] interacts with 2 human partners:{Q7Z460;Q15691}

4384 Pathogen[ P0C214] interacts with 2 human partners:{Q15691;Q7Z460}

4385 Pathogen[ P03346] interacts with 2 human partners:{Q15691;Q7Z460}

4386 Pathogen[ Q85601] interacts with 2 human partners:{Q15691;Q7Z460}

4387 Pathogen[ P14079] interacts with 2 human partners:{Q15691;Q7Z460}

4388 Pathogen[ P03383] interacts with 2 human partners:{Q7Z460;Q15691}

4389 Pathogen[ P03410] interacts with 2 human partners:{Q7Z460;Q15691}

4390 Pathogen[ P14075] interacts with 2 human partners:{Q7Z460;Q15691}

4391 Pathogen[ P0C206] interacts with 2 human partners:{Q15691;Q7Z460}

4392 Pathogen[ P03363] interacts with 2 human partners:{Q15691;Q7Z460}

4393 [Cluster 400]GO:0016323+C cellular\_component [name] basolateral plasma membrane [def] "The region of the plasma membrane that includes the basal end and sides of the cell. Often used in reference to animal polarized epithelial membranes, where the basal membrane is the part attached to the extracellular matrix, or in plant cells, where the basal membrane is defined with respect to the zygotic axis." [GOC

4394 Pathogen[ Q2Q067] interacts with 13 human partners:{O00186;O95782;Q14160;P08238;O14910;P15924;P11166;Q12959;Q07157;Q68DX3;Q6ZVN8;Q14244;Q9NUP9}

4395 Pathogen[ P0C214] interacts with 13 human partners:{O14910;Q68DX3;P16157;P15924;O00186;P11166;P11168;Q14244;Q12959;Q14160;Q6ZVN8;O95782;Q07157}

4396 Pathogen[ P03346] interacts with 19 human partners:{P15924;Q6ZVN8;Q96RT1;Q68DX3;O95782;P16157;P26038;Q5EBL8;O00186;Q9NUP9;Q07157;P11166;Q9HAP6;Q14244;Q969F2;Q14160;P08238;O14910;Q12959}

4397 Pathogen[ Q85601] interacts with 15 human partners:{O00186;P11168;P16157;Q9NUP9;O14910;Q96RT1;Q14244;P15924;P11166;Q68DX3;P08238;Q14160;Q07157;Q12959;O95782}

4398 Pathogen[ P14079] interacts with 22 human partners:{P04083;Q68DX3;Q8N307;Q6ZVN8;O75781;P15924;Q07157;P24588;P26038;Q14244;P16157;P11166;Q96RT1;O00186;Q9NUP9;Q8N6F1;O95782;P08238;Q8WZ55;Q9HAP6;Q9UKB5;Q9Y239}

4399 Pathogen[ P03383] interacts with 11 human partners:{Q14244;P15924;Q14160;O00186;Q07157;P11168;Q6ZVN8;O95782;Q68DX3;P08238;O14910}

4400 Pathogen[ P03410] interacts with 27 human partners:{O75781;O95782;Q969F2;O14910;P15924;Q96RT1;Q9Y239;Q8WZ55;P11166;P08238;P16157;Q12959;P11168;Q8N307;Q8N6F1;Q9NUP9;P55157;Q14160;Q9HAP6;Q6ZVN8;P26038;Q07157;Q15049;O00186;Q68DX3;Q14244;P24588}

4401 Pathogen[ P14075] interacts with 11 human partners:{Q68DX3;O00186;Q14160;Q07157;P08238;Q6ZVN8;O14910;O95782;P11168;Q14244;P15924}

4402 Pathogen[ P0C206] interacts with 17 human partners:{Q9NUP9;Q96RT1;Q969F2;P11166;Q14244;P11168;P16157;P08238;Q14160;Q6ZVN8;O14910;O95782;P15924;Q07157;Q68DX3;Q12959;O00186}

4403 Pathogen[ P03363] interacts with 15 human partners:{Q12959;Q96RT1;Q14244;P16157;O14910;Q14160;Q07157;P15924;Q6ZVN8;O00186;O95782;Q9NUP9;P08238;P11166;Q68DX3}

4404 [Cluster 401]GO:0030672+C cellular\_component [name] synaptic vesicle membrane [def] "The lipid bilayer surrounding a synaptic vesicle." [GOC

4405 Pathogen[ Q2Q067] interacts with 5 human partners:{Q9BSU1;O95295;Q96EV8;Q05084;Q8TAC9}

4406 Pathogen[ P0C214] interacts with 5 human partners:{Q9BSU1;O95295;Q8TAC9;Q96EV8;Q05084}

4407 Pathogen[ P03346] interacts with 6 human partners:{Q9BSU1;O95295;Q05084;Q8TAC9;Q96EV8;Q9Y2J0}

4408 Pathogen[ Q85601] interacts with 5 human partners:{Q9BSU1;O95295;Q8TAC9;Q96EV8;Q05084}

4409 Pathogen[ P14079] interacts with 6 human partners:{O43759;Q05084;Q9BSU1;Q8TAC9;O95295;Q96EV8}

4410 Pathogen[ P03383] interacts with 5 human partners:{Q9BSU1;O95295;Q8TAC9;Q96EV8;Q05084}

4411 Pathogen[ P03410] interacts with 7 human partners:{Q8TAC9;Q9Y2J0;O43759;Q05084;O95295;Q9BSU1;Q96EV8}

4412 Pathogen[ P14075] interacts with 5 human partners:{Q9BSU1;O95295;Q05084;Q96EV8;Q8TAC9}

4413 Pathogen[ P0C206] interacts with 7 human partners:{Q9BSU1;O43759;Q9Y2J0;Q96EV8;O95295;Q8TAC9;Q05084}

4414 Pathogen[ P03363] interacts with 3 human partners:{Q9BSU1;Q05084;O95295}

4415 [Cluster 402]GO:0000242+C cellular\_component [name] pericentriolar material [def] "A network of small fibers that surrounds the centrioles in cells\_ contains the microtubule nucleating activity of the centrosome." [GOC

4416 Pathogen[ Q2Q067] interacts with 7 human partners:{Q9H2K2;Q96SN8;P17987;Q99996;O95271;Q86VS8;Q15154}

4417 Pathogen[ P0C214] interacts with 7 human partners:{Q15154;Q96SN8;Q86VS8;Q9H2K2;P17987;Q99996;O95271}

4418 Pathogen[ P03346] interacts with 8 human partners:{Q86VS8;Q15154;Q9H2K2;Q96SN8;Q99996;Q96PY6;O95271;P17987}

4419 Pathogen[ Q85601] interacts with 8 human partners:{Q15154;Q86VS8;Q96PY6;Q96SN8;P17987;Q9H2K2;Q99996;O95271}

4420 Pathogen[ P14079] interacts with 7 human partners:{Q99996;O95271;Q86VS8;Q9H2K2;P17987;Q15154;Q96SN8}

4421 Pathogen[ P03383] interacts with 6 human partners:{Q96SN8;Q15154;Q86VS8;Q96PY6;Q99996;O95271}

4422 Pathogen[ P03410] interacts with 7 human partners:{P17987;Q99996;Q15154;Q96SN8;Q86VS8;O95271;Q9H2K2}

4423 Pathogen[ P14075] interacts with 6 human partners:{Q96SN8;Q99996;Q15154;Q96PY6;Q86VS8;O95271}

4424 Pathogen[ P0C206] interacts with 8 human partners:{Q95271;Q96SN8;Q96PY6;Q99996;P17987;Q86VS8;Q15154;Q9H2K2}

4425 Pathogen[ P03363] interacts with 7 human partners:{Q86VS8;Q99996;Q9H2K2;P17987;O95271;Q15154;Q96SN8}

4426 [Cluster 403]GO:0043235+C cellular\_component [name] receptor complex [def] "Any protein complex that undergoes combination with a hormone, neurotransmitter, drug or intracellular messenger to initiate a change in cell function." [GOC

4427 Pathogen[ Q2Q067] interacts with 3 human partners:{O14786;P84022;Q15628}

4428 Pathogen[ P0C214] interacts with 3 human partners:{O14786;Q15628;P84022}

4429 Pathogen[ P03346] interacts with 6 human partners:{Q6ZWB6;Q68DU8;P84022;Q15628;Q96CX2;O14786}

4430 Pathogen[ Q85601] interacts with 4 human partners:{O14786;Q15628;P84022;Q96CX2}

4431 Pathogen[ P14079] interacts with 4 human partners:{O60895;Q68DU8;Q96CX2;Q15628}

4432 Pathogen[ P03383] interacts with 2 human partners:{P84022;Q15628}

4433 Pathogen[ P03410] interacts with 8 human partners:{P84022;O14786;O60895;Q68DU8;Q6ZWB6;Q15628;Q96CX2}

4434 Pathogen[ P14075] interacts with 2 human partners:{Q15628;P84022}

4435 Pathogen[ P0C206] interacts with 4 human partners:{P84022;Q96CX2;O14786;Q15628}

4436 Pathogen[ P03363] interacts with 3 human partners:{O14786;P84022;Q15628}

4437 [Cluster 404]GO:0035085+C cellular\_component [name] cilium axoneme [def] "The bundle of microtubules and associated proteins that forms the core of cilia in eukaryotic cells and is responsible for their movements." [GOC

4438 Pathogen[ Q2Q067] interacts with 6 human partners:{Q8WW24;Q5TD94;Q86VQ0;Q717R9;Q9BPU9;Q96M29}

4439 Pathogen[ P0C214] interacts with 4 human partners:{Q8WW24;Q9BPU9;Q5TD94;Q96M29}

4440 Pathogen[ P03346] interacts with 11 human partners:{Q86VQ0;Q9BPU9;Q68CZ1;Q9UIF3;Q5TD94;Q96M29;Q8N0X2;Q9Y4P9;Q717R9;Q8IWN7;Q8WW24}

4441 Pathogen[ Q85601] interacts with 7 human partners:{Q5TD94;O96015;Q9BFX9;Q8WW24;Q96M29;Q86VQ0;Q9BPU9}

4442 Pathogen[ P14079] interacts with 28 human partners:{Q9H1X1;Q9Y4P9;Q95876;Q8N0X2;Q68CZ1;Q717R9;Q9BFX9;Q96M29;Q9Y4R7;Q8IWN7;Q9GZS0;Q5TD94;P56715;A6PVC2;Q9UPM9;Q9UI46;Q9BPU9;Q9P2L0;Q8IW40;Q8WW24;Q9UFE4;Q969V4;Q9UIF3;O96015;Q86VQ0;O15259;Q6IQ19;P10636}

4443 Pathogen[ P03383] interacts with 6 human partners:{Q5TD94;Q96M29;Q86VQ0;Q8WW24;Q717R9;Q9Y4P9}

4444 Pathogen[ P03410] interacts with 29 human partners:{Q717R9;Q9Y4R7;Q86VQ0;Q9Y4P9;Q9BFX9;Q9UI46;O15259;Q8N0X2;Q96RY7;Q5TD94;Q9UIF3;Q8TCX1;Q9H1X1;Q9UFE4;Q6IQ19;Q9BPU9;Q9UPM9;Q95876;P10636;Q8IW40;Q9P2L0;Q68CZ1;A6PVC2;Q8IWN7;Q9GZS0;Q969V4;P56715;Q96M29;O96015}

4445 Pathogen[ P14075] interacts with 7 human partners:{Q5TD94;Q86VQ0;Q6IQ19;Q9Y4P9;Q9BPU9;Q717R9;Q96M29}

4446 Pathogen[ P0C206] interacts with 20 human partners:{Q9BPU9;P56715;Q5TD94;Q9UPM9;Q9UIF3;Q86VQ0;P10636;Q717R9;Q9Y4P9;Q9UFE4;Q8IWN7;Q6IQ19;Q9H1X1;Q9BFX9;Q96M29;Q16181;Q95876;O96015;Q8IW40;Q8WW24}

4447 Pathogen[ P03363] interacts with 19 human partners:{Q8N0X2;P56715;Q86VQ0;Q9GZS0;Q969V4;Q9H1X1;Q96M29;Q9Y4P9;Q5TD94;Q717R9;Q9BFX9;Q6IQ19;Q9BPU9;Q8IW40;Q9UIF3;Q8IWN7;O15259;Q9UI46;Q8WW24}

4448 [Cluster 405]GO:0005783+C cellular\_component [name] endoplasmic reticulum [def] "The irregular network of unit membranes, visible only by electron microscopy, that occurs in the cytoplasm of many eukaryotic cells. The membranes form a complex meshwork of tubular channels, which are often expanded into slitlike cavities called cisternae. The ER takes two forms, rough (or granular), with ribosomes adhering to the outer surface, and smooth (with no ribosomes attached)." [ISBN

4449 Pathogen[ Q2Q067] interacts with 125 human partners:{P04156;O15027;P50402;Q8WWX9;P62633;Q9UMS5;Q96HA1;O75340;P39687;Q9H5J4;O95433;Q15293;Q6RW13;Q8N1N5;P09913;P55735;Q86XL3;O60260;Q9NUL3;O75807;O75865;Q9Y244;Q96P71



;Q5VYK3;Q01105;A8CG34;Q6ZNE5;O43639;O60238;O60506;P22061;P60604;Q15006;Q8IUR0;P18850;O43617;O00204;Q8IZP0;P36956;Q86SZ2;Q96EV8;Q6NZI2;Q8WU03;P08107;Q6VVB1;Q5BJF2;P63241;O95793;Q8N3S3;Q96CS3;Q86UE4;Q15629;Q92575;Q96AQ7;Q9UBS4;P27695;Q9BW60;P27797;Q96G23;Q12959;O43264;Q14CS0;O75396;Q9GZR5;Q9UBS3;Q9UHB9;P40337;Q8TEM1;Q15050;Q9UL33;Q92539;Q15437;P56279;P53992;Q8TAT6;Q92562;O95486;Q12904;O94855;A4D0V7;P0DI81;O14656;P0DI82;Q68CJ9;Q6IS14;Q9BVC6;O94850;Q96JE7;P16333;O95456;Q9UQF2;O94874;O95476;Q14145;A1L3X0;P21399;Q8WU39;Q6NUQ1;Q9HB03;P08235;Q8WV99;Q969H0;O15155;O95487;Q96D15;Q9BQE4;O00165;Q92845;Q9GZV4;P55327;Q86YV9;Q9Y296;P23284;Q9P2W9;Q9NRR5;Q96DZ1;Q9UMX0;Q86VP3;Q15436;Q14442;Q96HY6;Q13501;P27635;Q14693;P14625}

4450 Pathogen[ P0C214] interacts with 153 human partners: {Q6NUQ1;Q9UM00;Q9HA82;P18850;P55735;O75865;Q9NXB9;P27695;P14625;Q6IS14;Q12904;O14681;Q8IZP0;O95456;P09913;Q6RW13;P53992;O43264;Q9NRR5;Q9GZV4;Q8TEM1;Q8WVX9;O75807;Q14145;P27635;O43865;Q5VYK3;P29728;Q15397;Q9GZR5;Q9Y244;O14656;Q68CJ9;Q6NZI2;Q86YV9;P23284;Q9Y296;Q15050;Q9UBS3;O43617;O75340;Q86SQ9;P63241;Q15436;Q96Q05;Q86UE4;Q86VP3;Q8IUR0;Q8WXG1;O43639;Q9UBS4;Q01105;Q92562;A8CG34;O94874;Q9Y2G5;Q9HB03;Q9H089;P22061;Q13501;Q9NYP7;Q14696;Q8N3S3;Q8TAT6;O43681;O95487;Q92539;P49257;Q08AM6;A1L3X0;O00165;P50402;Q6ZNE5;Q15437;Q8NBJ7;Q9NUL3;Q86XL3;Q9UMS5;Q96G23;Q8WU03;P40337;O95278;P0DI81;O00204;Q96CS3;Q96P71;Q96EV8;O94850;Q8WV99;Q969H0;Q12959;Q96D15;Q9UQF2;Q92845;P16333;P62633;O95476;Q9NV92;Q8N2G8;O95793;P04156;P10909;Q15629;P27797;Q9BVC6;P68543;O60238;O60506;P55327;Q15006;O75396;Q9UHQ9;Q96DZ1;Q86WV6;Q9UHB9;Q9BW60;O60260;Q8WU39;O76083;Q9NWZ5;Q5T215;Q92575;Q9BQE4;Q15293;A4D0V7;Q96AQ7;Q96JE7;P21399;P08107;Q9H902;P39687;Q9UL33;P56279;Q14CS0;O15155;Q9UMX0;O15027;O95433;O95486;Q6VVB1;O60613;P80303;P0DI82;Q86SZ2;Q9P2W9;P55072;Q9H0P0;O94855;P13667;Q14693;P60604;Q96NN9;Q96HA1}

4451 Pathogen[ P03346] interacts with 170 human partners: {Q8TEM1;P08107;Q9BW60;O00204;Q86YV9;P56279;P55735;Q99828;O95456;Q9Y2B0;Q9UBS3;Q15050;Q9UMS5;P22061;Q9P2W9;O15027;P80303;Q9Y5R8;P29373;Q96HY6;Q86UE4;Q96BA8;Q96P71;Q8N1N5;P62633;Q9GZV4;P55327;O43639;P36956;P14625;P08235;Q96DZ1;Q96CS3;O14656;Q99784;Q8IZP0;Q70SY1;Q12772;O60238;Q01105;P49257;Q8WV99;Q9NRR5;Q15629;O60506;Q49MI3;Q27J81;O75865;Q969X5;Q86SZ2;Q8WU03;Q12981;O43264;Q9NUL3;Q13190;Q9UMX0;O75396;Q13438;Q9H173;P13667;Q92562;Q96AQ7;P63241;Q86SQ9;Q9NV92;P55072;Q6NZI2;Q5BJF2;Q8WVX9;O95793;O94855;O95433;Q6IS14;P18850;Q6ZNE5;Q9H0R8;Q9H902;Q14CS0;Q92575;P16333;Q6NUQ1;Q9BUN8;Q12904;Q96D15;Q15436;O75340;P17706;P60604;Q9UL33;Q5T215;Q92539;Q96EV8;Q15437;Q8N3S3;Q9H5J4;Q9Y296;Q96JE7;Q96Q05;Q8WU39;Q8N5I3;Q96G23;P0DI81;Q5VYK3;Q15041;Q9HB03;P39687;O94850;Q15006;Q8IUR0;Q6VVB1;P50402;O95486;P27797;O95476;P40337;Q9BVC6;Q96KC8;O00165;Q68CJ9;P0DI82;A4D0V7;O60260;Q5JRA6;Q9UBS4;Q9HCU5;Q8TAT6;A6NDV4;Q9Y244;A8CG34;P56589;Q9UQF2;P04156;Q9UHB9;O95487;Q14442;P09913;Q92845;P27695;Q6RW13;O43865;Q96HA1;Q86XL3;Q14145;Q15397;Q8TEY5;P49755;P21399;Q15293;O95278;Q8IWF2;Q969H0;O15155;O94874;Q9NQ94;O75807;Q86VP3;Q9HBF4;P53992;Q15363;Q9NWZ5;Q8N2G8;P27635;Q9BVK6;O43617;Q13501;Q9UBP0;P23284;Q14693;Q12959;P68543}

4452 Pathogen[ Q85601] interacts with 139 human partners: {Q8TEM1;Q5VYK3;Q68CJ9;Q86WV6;Q92575;P62633;P09913;P08107;O15027;Q08AM6;Q6NUQ1;Q969H0;A1L3X0;O00165;O75396;Q9GZV4;Q9UBS3;Q9UL33;Q15629;Q15293;O95487;P21399;A8CG34;Q9NRR5;O60506;Q96CS3;Q96JE7;Q9UBP0;P56279;P39687;Q01105;P16333;Q15006;P40337;O95433;Q9HBF4;O15155;Q8N3S3;Q9UHQ9;O95793;Q9H0R8;P27635;O60613;O43865;Q9UBS4;P80303;Q8WU03;Q12981;O43264;Q12772;P55145;Q9Y296;P27797;Q92562;Q96AQ7;P63241;Q86SQ9;Q9Y244;Q96D15;O43639;Q9P2W9;Q15436;Q9H089;O95278;O43617;Q14145;Q86YV9;Q9UQF2;Q15397;O43681;Q5T215;Q86XL3;Q9BW60;Q9UM00;Q96EV8;Q15437;Q9H5J4;P36956;P49257;Q8N6T3;Q96Q05;Q15050;Q96G23;P23284;P0DI81;P55735;O14656;Q9UMS5;P18850;Q9H902;Q9HB03;Q6RW13;Q8WV99;P08235;Q86UE4;O95456;P22061;Q6VVB1;O75340;O95486;O95476;P50402;O00204;Q9NUL3;P0DI82;O60260;Q12959;P14625;Q92845;Q6NZI2;P04156;Q9UHB9;Q9GZR5;Q9H0P0;Q96P71;O75865;Q8WVX9;Q96HA1;Q8IZP0;Q8N2G8;O94855;O75807;P60604;O60238;O94874;Q14257;P27695;Q8TAT6;Q92539;Q86VP3;P53992;Q9UMX0;Q86SZ2;Q13501;Q6IS14;Q9BQE4;Q14693;Q14CS0;Q8IUR0}

4453 Pathogen[ P14079] interacts with 301 human partners: {Q15629;Q16655;Q8N6M3;P27635;Q6NUQ1;O43292;Q9Y5Y5;Q8NBV4;Q9Y296;O95070;Q86YV9;Q14CS0;A5PLL7;O60260;Q01105;Q15293;Q9H0P0;Q9Y5U4;Q8WVX9;Q96HA1;Q9H295;Q92562;Q9UL33;Q969M3;P49257;P55327;O15027;O95169;Q86SZ2;Q8N4B5;Q16873;Q86VE9;P60468;Q3ZAQ7;Q8WU39;Q96P71;O95793;P49069;Q9NUQ7;Q9BU23;O75072;Q14442;Q9NYV7;Q9BQE4;P29728;Q8WV99;Q1HG44;Q969H0;Q14693;A1L3X0;Q96A33;Q24JP5;Q9P055;O95487;Q8NBQ7;Q96S52;P56589;Q9BT09;Q68CJ9;P20292;Q9BRL7;Q9NXC4;P30040;Q96RQ1;A6NDV4;Q9BVC6;Q96G30;Q8IVL6;Q9UBS3;Q15006;Q6IS14;Q96CS3;P39656;Q92542;P08235;Q9NZ42;P04156;Q9UMX0;Q96HY6;Q9UQF2;P21399;Q14696;P20933;O00165;O00400;Q9BVK6;A8CG34;Q15397;Q15041;Q9UBS4;Q6RW13;Q96D15;P60604;P57054;O94874;O75865;P43307;Q629K1;Q8TEM1;O75807;Q9NWZ5;P49184;O94855;Q9HA82;Q8IZP0;O60613;O95433;Q99442;Q9BT22;Q96Q80;P10909;Q15050;P53992;P04844;Q5VUD6;Q8N5I3;Q86SQ9;Q9Y2B2;Q9GZP9;Q32NB8;Q8N1N5;Q86XL3;O94777;Q99828;Q9H0C3;O15155;Q9NRR5;O75352;O94905;Q5VYK3;Q5BJF2;Q96DZ1;Q969N2;Q9HB03;A6NFC5;Q5QFB9;Q9NQ94;Q92539;Q96JX3;Q96JE7;Q8TUR0;Q9NYU1;P33947;Q9P2X0;P09913;Q15363;Q9BUN8;Q6ZNE5;Q9UHQ9;Q9Y244;Q5JPE7;O75396;Q9NRR5;Q12772;Q9H488;P24390;Q9UL01;P80303;Q9HBM9;Q8N3S3;O75503;P40337;P27544;O43865;Q9Y5U9;Q8NFR3;Q8N609;Q96GC9;O14656;Q8NHG7;Q5T215;Q9Y2Y6;Q9BVK8;Q86WV6;Q14145;Q8N114;Q9NYU2;Q96AQ7;Q8IUH2;O43681;Q969X5;Q86VP3;O75915;P49755;Q12912;Q86WV6;O00264;Q9Y6X1;Q96G23;O75340;Q9Y6D0;O75477;Q9NUL3;P08107;P16333;O95866;Q5JRA6;Q8N2G8;Q12981;Q9NZ43;Q9BTV4;O60506;Q8NBJ7;Q8TAT6;O95292;Q9H0R8;P58512;Q96Q05;P27695;O43264;O43612;P60059;P68543;Q969W0;Q8NBK3;Q7Z5B4;Q86UE4;P10620;Q13501;Q9H490;Q7L775;Q9H6L5;P63241;P18850;Q96S66;P14625;Q9Y5R8;Q9UKR5;Q6NZI2;Q9UKI3;A4D0V7;Q99541;A5D6W6;O43639;Q9UNW1;Q9Y5Z9;Q8TCY5;O95456;Q9UM00;Q9UMZ5;O15260;O95476;P55735;Q96BY9;Q9Y3E0;Q9GZR5;Q96EV8;Q15011;P62633;Q9H0V9;Q8NBL1;P56279;Q9NV92;Q9NW5;P0DI82;Q96MG2;Q12904;P0DI81;P50402;P23284;O95486;Q92845;Q9HBF4;Q9BW60;Q9Y2B0;Q9P2W9;Q9Y2G5;O60238;Q8TBF5;Q8NFO8;Q92575;Q9UHB9;P36956;O43617;Q5NDL2;Q9H902;Q9H496;Q8WUF8

- 4454 ;P51571;Q9GZV4;O14681;Q9NV96;Q9H5J4;Q96B86;O94850;Q96S06;Q9UMS5;P39687;Q6AZY7;Q3MUY2;Q9H089;Q27J81;Q13438;Q8IU68;Q8WXG1;P46977;Q8N138;O43731;O15503;Q9BSR8;Q96FM1}  
Pathogen[ P03383] interacts with 110 human  
partners: {P08107;Q68CJ9;Q6RW13;Q01105;Q12904;Q9Y244;Q8WV99;P55735;O95433;Q86UE4;P40337;P04156;Q6NZI2;A4D0V7;Q9NWZ5;O95487;O43264;O60613;Q9UL33;A8CG34;Q9BW60;Q96DZ1;Q9GZR5;Q5VYK3;Q9BUN8;Q9H5J4;Q96AQ7;Q9GZV4;Q9UMS5;Q96P71;O95486;Q8N1N5;O00165;Q9Y296;Q9UQF2;Q8TEM1;Q15050;P63241;Q96EV8;Q15436;Q8NHG7;P09913;Q9UBS4;Q15006;Q8IURO;Q9UBS3;Q15629;Q9BVC6;O60238;P39687;O60260;P60604;Q9BQE4;Q15437;O94855;A1L3X0;Q8N3S3;O43617;O75865;Q8TAT6;Q86VP3;P0DI82;Q14696;Q9UMX0;Q96CS3;P55145;Q9HB03;P0DI81;Q8N4B5;P14625;Q8WU39;Q5B JF2;Q86YV9;P22061;P27635;O94850;Q13501;O15027;P50402;Q969H0;Q96HY6;P62633;Q96HA1;Q14145;Q96JE7;Q8WU03;P23284;P53992;Q1NRR5;Q9UHB9;O75807;Q92845;O95456;Q9UM00;O14681;P27695;Q6NUQ1;P18850;Q9NUL3;P16333;Q14CS0;P56279;O94874;Q92539;Q86SZ2;Q6ZNE5;Q92575;Q8WXX9;P27797;Q14693}
- 4455 Pathogen[ P03410] interacts with 292 human  
partners: {A1L3X0;Q8WV99;P0DI82;Q92562;O95292;Q86VE9;P49069;Q9H496;Q7L775;Q6NZI2;Q15041;Q68CJ9;P36956;Q86SZ2;Q9H0C3;Q15293;A5D6W6;O75865;O14681;Q27J81;Q14257;P56279;O60613;Q9GZR5;P80303;P49184;Q96GC9;Q96HY6;Q9NZ43;Q9H0V9;Q15050;Q96D15;Q9UHB9;Q13190;Q99442;Q96G30;Q8NBJ7;Q9H902;O43612;Q9BVC6;Q96B86;P60468;Q7Z5B4;Q96FM1;P49257;Q86VP3;P60059;P29728;Q8N1N5;Q9NRR5;O94855;Q9NWW5;Q969X5;Q9H5J4;Q13445;Q86UW1;P53992;O14656;Q9Y2B2;Q9BU23;Q9BT09;Q8N138;Q96A33;Q96AQ7;Q12959;Q16655;O00400;P13667;O94905;O43639;Q9UL33;O00165;P68543;Q9Y5Y5;Q9Y5U4;P30040;P14625;Q9UMS5;Q5T215;Q5VYK3;Q92845;P33947;Q9NWZ5;Q9P2W9;O95456;Q13501;P39687;O00204;Q8N114;Q9Y5Z9;O94777;Q96Q80;Q8N3S3;P16333;A6NDV4;Q1HG44;Q9H6L5;Q01105;P27544;Q9GZP9;Q24JP5;Q9UBS3;P55157;O60260;Q9P055;Q14442;Q96HA1;Q9UKI3;Q9Y3E0;Q6NUQ1;O94850;Q9NV92;Q96S52;Q5VUD6;Q9Y5R8;Q9BQE4;Q8N609;Q8WXG1;Q9NXE4;Q12904;Q8N6M3;Q96G23;O43264;Q14693;Q92575;Q9NZ42;O75503;Q15006;A4D0V7;Q9UJH9;Q9UMX0;O95866;P0DI81;Q9BTV4;Q15436;Q9BVK6;Q99828;P43307;Q9Y6X1;Q9NRR5;Q08AM6;O75396;Q96BY9;P21399;P58512;Q9H0R8;Q969M3;Q15437;O75915;A6NFC5;Q8IURO;O00264;Q969H0;Q9NYU1;Q9BUN8;Q86YV9;Q96RQ1;P08107;Q9HA82;Q12772;O15155;Q96JX3;Q86SQ9;Q9BW60;Q86UE4;Q9BSR8;Q16873;Q15629;Q14CS0;O95486;Q8TEM1;Q15049;Q15363;Q9Y2Y6;Q8N2G8;Q12912;P55327;Q9H089;P04156;Q8WXX9;Q9H173;Q96JE7;Q8WU39;Q9Y244;O75807;Q9BT22;Q8IZP0;Q96S06;Q8N5I3;Q6RW13;P04844;P50402;Q9NUL3;O95476;Q9HCU5;P24390;P27635;Q96S66;P09913;O75477;Q9HBF4;O95169;Q9HBO3;Q9UBS4;P27695;Q96Q05;Q9Y6D0;Q15397;Q96CS3;Q9BZR6;Q9H0P0;Q969N2;Q9Y5U9;Q9NV96;Q969W0;O95793;P20933;Q92542;Q9Y296;Q9UNW1;P23284;P63241;Q9UBY8;A8CG34;Q86WV6;O15027;O94874;Q6ZNE5;O60506;Q15011;Q9BVK8;O75352;P60604;P56589;O75340;Q8WU03;Q96DZ1;Q629K1;Q9UQF2;Q9Y2B0;Q9UL01;O43731;Q9GZV4;Q96P71;Q8IU99;P55735;Q14696;Q8NFQ8;O15260;Q12981;O95433;O43617;P39656;P62633;Q9Y2G5;P20292;Q9H488;O15503;Q9UM00;Q14145;Q92539;Q9H490;P22061;Q5BJF2;P08235;O43681;P18850;Q9P2X0;Q8TAT6;Q13438;Q6AZY7;O43865;Q96EV8;Q86XL3;Q5QFB9;Q5JRA6;O60238;O95070;O95994;Q8N4B5;P40337;O95487;Q8NFR3;Q8NBV4;Q8NHG7;P10909;Q9NYU2;Q9BRL7;Q6IS14;Q96MG2;Q9NZV5;P27797}
- 4456 Pathogen[ P14075] interacts with 124 human  
partners: {A6NFC5;P60604;Q9BQE4;Q9UBS3;O43617;Q96CS3;Q8TAT6;Q9H5J4;O94777;Q9BVC6;Q96JE7;Q6ZNE5;P55327;Q9BW60;P58512;O14681;Q14442;P09913;Q8WU39;Q15006;Q9NUL3;P23284;O94874;Q9NWZ5;Q8N4B5;Q86UE4;Q92845;P27695;Q9UMS5;A8CG34;Q6NUQ1;P62633;Q86SZ2;Q8WXX9;P04156;Q9Y244;Q9HB03;O95433;Q9GZV4;P39687;O15027;Q15629;P63241;Q01105;P53992;P50402;P55735;Q8WU03;P56279;Q96AQ7;Q8WV99;A1L3X0;P16333;Q96HA1;Q6NZI2;Q8N1N5;Q16655;Q86VP3;O75865;O95487;Q92539;O60613;Q15437;Q8NHG7;Q9UJH9;Q12904;O95456;Q8TEM1;Q8IURO;Q14696;P0DI81;O60238;P27797;Q9Y6D0;Q14CS0;Q9BUN8;Q86YV9;O75807;Q92575;Q9Y2G5;Q1HG44;Q15436;Q9NRR5;P22061;Q9GZR5;Q68CJ9;P27635;Q96EV8;Q9NV92;P08107;Q8N6M3;Q9UHB9;Q96HY6;Q15011;Q969W0;O94855;Q96DZ1;Q9UBS4;Q9UL33;Q6RW13;Q8N3S3;Q15050;O43264;P40337;P14625;Q9Y296;O60260;Q969H0;O95486;O00165;Q9UQF2;O75477;O94850;Q14145;Q13501;P0DI82;Q9UM00;Q96P71;Q9UMX0;P18850;Q5BJF2;Q5VYK3;Q14693;A4D0V7}
- 4457 Pathogen[ P0C206] interacts with 225 human  
partners: {P27695;Q96P71;Q5BJF2;O75340;Q96A33;Q8NBJ7;O75477;Q9BVK6;Q13501;Q96HY6;Q92539;Q16655;P0DI82;Q15437;P50402;Q92575;P27635;Q9UM00;Q9GZV4;Q96G23;Q96D15;Q6IS14;P39687;Q9Y296;Q99828;Q8N6T3;P27797;O75865;Q14CS0;Q9UMS5;O75396;Q15397;Q92845;Q9UBP0;Q9NZ42;Q8WXX9;P04156;O94855;P39656;Q9UJH9;Q6NUQ1;Q92562;P22061;P18850;Q7Z5B4;Q86XL3;Q9NV92;P56589;Q8N2G8;Q9HB03;O75807;Q9UMX0;O43681;Q8NHG7;A5D6W6;Q9H6L5;Q9UBS4;Q96HA1;P80303;O95070;Q14442;O94850;P49755;P55327;Q5JRA6;Q969H0;Q27J81;P29728;Q9Y5Z9;P55735;Q6ZNE5;P68543;O94777;Q8TAT6;P36956;P29373;Q96DZ1;Q9H496;Q9NWZ5;P58512;Q86WV6;O60613;Q92542;Q8NFR3;Q15050;Q9UQF2;Q1HG44;O43865;O95476;P55145;Q14145;Q9H5J4;Q7L775;P62633;A6NDV4;Q9UL01;Q96S66;O95292;O60238;O14681;Q8TEM1;Q8N6M3;Q9H089;Q9BQE4;Q15041;Q9NRR5;O60506;O15155;P60604;Q6RW13;O00165;Q96Q05;Q9HA82;O95486;Q969M3;Q8IZP0;O00264;Q9BVC6;Q86SZ2;Q96EV8;Q8N4B5;Q969W0;P33947;Q15011;Q96JE7;Q6NZI2;O14656;P24390;P49257;Q86VP3;O95487;P09913;A6NFC5;O94874;O60260;Q15293;O00204;O94905;Q9H0P0;Q9BUN8;O95278;Q9GZP9;Q9Y2B2;P23284;O95793;Q15006;P10909;Q9NUL3;Q96AQ7;P08107;Q8WU03;Q8N1N5;P55072;Q8IURO;O43617;P16333;O43731;Q5VYK3;Q8WU39;Q9H0R8;Q12981;P63241;Q5T215;A4D0V7;O15260;P20292;Q8N3S3;Q9Y6D0;Q969X5;Q8NFQ8;Q86UE4;Q15629;Q9GZR5;Q9UHB9;Q9UBS3;Q13438;Q96RQ1;Q96B86;Q9UL33;Q14696;A8CG34;O95456;P56279;P53992;Q8WV99;Q15363;Q12912;Q14257;Q9Y5R8;Q9Y5U9;Q86YV9;Q8WXG1;Q14693;Q9Y244;O15027;Q96CS3;O43264;Q01105;O43639;Q12959;Q86SQ9;Q6VVB1;Q9HBF4;Q12772;Q9H902;Q9BTV4;Q9Y2G5;P13667;P08235;Q9P2W9;Q96S06;P17706;Q8NBV4;P21399;Q99640;Q12904;P0DI81;Q68CJ9;A1L3X0;P40337;P14625;Q08AM6;Q9BRL7;Q9BW60;Q15436}
- 4458 Pathogen[ P03363] interacts with 105 human  
partners: {P17706;Q12959;P23284;Q92845;Q8IZP0;Q9GZV4;Q96AQ7;Q9H5J4;Q9H902;P60604;Q9NWZ5;Q14CS0;Q14145;Q15050;Q92575;Q96DZ1;Q9UMS5;O75340;P0DI81;Q92539;P62633;Q9UQF2;P56279;Q96HY6;P09913;Q9UHB9;P18850;O95793;O43264;Q9NUL3;Q9UMX0;Q6NUQ1;Q9UBS3;Q9UL33;Q15436;Q8N2G8;O95456;A8CG34;Q15041;P04156;Q6VVB1;O95486;Q86UE4;Q99828;O43639;Q96CS3;O95476;Q

8N1N5;P40337;P39687;P0DI82;O94850;Q9P2W9;Q9H0R8;Q96D15;Q9NRR5;Q8TAT6;Q96P71;P29373;Q15293;Q8N3S3;P08107;P08235;O95433;P16333;P27797;Q6ZNE5;Q9UBS4;O00204;Q68CJ9;Q96HA1;Q969H0;Q6NZI2;O75807;O43865;P50402;Q8IWX8;Q13438;P63241;Q5BJF2;O60506;Q96G23;P53992;Q8WU39;O95487;Q9Y296;Q27J81;Q9Y244;O00165;O43617;Q61S14;Q01105;Q49MI3;O94874;Q8WV99;O60238;P27635;Q86XL3;P55735;Q15006;P55327;Q8WXX9;O94855;Q5VYK3;Q9NQ94

4459 [Cluster 406]GO:0031091+C cellular\_component [name] platelet alpha granule [def] "A secretory organelle found in blood platelets, which is unique in that it exhibits further compartmentalization and acquires its protein content via two distinct mechanisms

4460 Pathogen[ Q2Q067] interacts with 2 human partners:{000186;Q9H267}

4461 Pathogen[ P0C214] interacts with 2 human partners:{000186;P07093}

4462 Pathogen[ P03346] interacts with 2 human partners:{000186;Q9H267}

4463 Pathogen[ Q85601] interacts with 3 human partners:{000186;Q9H267;P07093}

4464 Pathogen[ P14079] interacts with 2 human partners:{000186;Q9H267}

4465 Pathogen[ P03383] interacts with 1 human partners:{000186}

4466 Pathogen[ P03410] interacts with 2 human partners:{Q9H267;000186}

4467 Pathogen[ P14075] interacts with 1 human partners:{000186}

4468 Pathogen[ P0C206] interacts with 2 human partners:{Q9H267;000186}

4469 Pathogen[ P03363] interacts with 2 human partners:{Q9H267;000186}

4470 [Cluster 407]GO:0044451+C cellular\_component [name] nucleoplasm part [def] "Any constituent part of the nucleoplasm, that part of the nuclear content other than the chromosomes or the nucleolus." [GOC

4471 Pathogen[ Q2Q067] interacts with 2 human partners:{075683;Q86U70}

4472 Pathogen[ P0C214] interacts with 2 human partners:{075683;Q86U70}

4473 Pathogen[ P03346] interacts with 2 human partners:{Q86U70;075683}

4474 Pathogen[ Q85601] interacts with 2 human partners:{Q86U70;075683}

4475 Pathogen[ P14079] interacts with 2 human partners:{Q86U70;075683}

4476 Pathogen[ P03383] interacts with 2 human partners:{Q86U70;075683}

4477 Pathogen[ P03410] interacts with 2 human partners:{075683;Q86U70}

4478 Pathogen[ P14075] interacts with 2 human partners:{Q86U70;075683}

4479 Pathogen[ P0C206] interacts with 2 human partners:{075683;Q86U70}

4480 Pathogen[ P03363] interacts with 2 human partners:{Q86U70;075683}

4481 [Cluster 408]GO:0043204+C cellular\_component [name] perikaryon [def] "The portion of the cell soma (cell body) that excludes the nucleus." [GOC

4482 Pathogen[ Q2Q067] interacts with 6 human partners:{Q8N3V7;P11387;Q9UQB3;Q99608;P62136;O94850}

4483 Pathogen[ P0C214] interacts with 8 human partners:{Q99608;Q9NPG2;Q9UQB3;P09104;P62136;O94850;P11387;Q8N3V7}

4484 Pathogen[ P03346] interacts with 9 human partners:{P62136;Q8N3V7;Q6TFL4;Q92886;Q9NPG2;Q9UQB3;O94850;Q99608;P11387}

4485 Pathogen[ Q85601] interacts with 6 human partners:{Q99608;P11387;Q9UQB3;P62136;Q8N3V7;Q9NPG2}

4486 Pathogen[ P14079] interacts with 6 human partners:{Q9NPG2;Q9UQB3;P62136;Q99608;Q8N3V7;O94850}

4487 Pathogen[ P03383] interacts with 6 human partners:{Q99608;P11387;P62136;Q9UQB3;O94850;Q8N3V7}

4488 Pathogen[ P03410] interacts with 7 human partners:{Q8N3V7;Q99608;P62136;O94850;P11387;Q9NPG2;Q9UQB3}

4489 Pathogen[ P14075] interacts with 6 human partners:{P11387;Q99608;Q8N3V7;P62136;Q9UQB3;O94850}

4490 Pathogen[ P0C206] interacts with 7 human partners:{Q8N3V7;O94850;Q9NPG2;Q99608;P11387;Q9UQB3;P62136}

4491 Pathogen[ P03363] interacts with 8 human partners:{Q92886;Q8N3V7;P62136;P11387;O94850;Q99608;Q6TFL4;Q9UQB3}

4492 [Cluster 409]GO:0032039+C cellular\_component [name] integrator complex [def] "A protein complex that stably associates with the C-terminus of RNA polymerase II and mediates 3'-end processing of small nuclear RNAs generated by RNA polymerase II." [PMID

4493 Pathogen[ Q2Q067] interacts with 10 human partners:{Q9NVH2;Q96HW7;Q9NV88;Q9NVR2;Q96CB8;P60896;Q6P9B9;Q68E01;Q75QN2;Q9UL03}

4494 Pathogen[ P0C214] interacts with 8 human partners:{Q9NVH2;Q68E01;Q96HW7;Q75QN2;Q9NV88;Q96CB8;Q9NVR2;Q9UL03}

4495 Pathogen[ P03346] interacts with 11 human partners:{Q6P9B9;Q9H0H0;Q96HW7;Q75QN2;Q68E01;Q9NVH2;Q9NV88;Q96CB8;P60896;Q9UL03;Q9NVR2}

4496 Pathogen[ Q85601] interacts with 7 human partners:{Q96CB8;Q68E01;Q75QN2;Q9NVR2;Q9NV88;Q9UL03;Q96HW7}

4497 Pathogen[ P14079] interacts with 11 human partners:{Q9NV88;Q96CB8;Q9NVR2;Q75QN2;Q6P9B9;Q9NVH2;Q8N201;Q68E01;Q9H0H0;Q9UL03;Q96HW7}

4498 Pathogen[ P03383] interacts with 10 human partners:{Q68E01;Q75QN2;Q6P9B9;Q9NV88;Q96HW7;Q96CB8;P60896;Q9UL03;Q9NVH2;Q9NVR2}

4499 Pathogen[ P03410] interacts with 12 human partners:{Q9NVR2;Q96CB8;Q9UL03;Q8N201;Q9H0H0;P60896;Q9NV88;Q9NVH2;Q96HW7;Q68E01;Q75QN2;Q6P9B9}

4500 Pathogen[ P14075] interacts with 10 human partners:{Q75QN2;Q68E01;Q9NVR2;Q96HW7;Q9NVH2;P60896;Q6P9B9;Q9UL03;Q9NV88;Q96CB8}

4501 Pathogen[ P0C206] interacts with 12 human

4502 partners:{Q68E01;Q9NV88;Q9NVH2;Q9UL03;Q9H0H0;Q96HW7;Q96CB8;Q75QN2;Q9NVR2;Q6P9B9;P60896;Q8N201}  
Pathogen[ P03363] interacts with 11 human  
partners:{Q9NVR2;P60896;Q96HW7;Q75QN2;Q9UL03;Q6P9B9;Q9NVH2;Q9H0H0;Q68E01;Q9NV88;Q96CB8}

4503 [Cluster 410]GO:0042622+C cellular\_component [name] photoreceptor outer segment membrane [def] "The membrane surrounding the outer segment of a vertebrate photoreceptor." [GOC  
4504 Pathogen[ Q2Q067] interacts with 1 human partners:{P41219}  
4505 Pathogen[ P0C214] interacts with 1 human partners:{P41219}  
4506 Pathogen[ P03346] interacts with 1 human partners:{P41219}  
4507 Pathogen[ Q85601] interacts with 1 human partners:{P41219}  
4508 Pathogen[ P14079] interacts with 1 human partners:{P41219}  
4509 Pathogen[ P03383] interacts with 1 human partners:{P41219}  
4510 Pathogen[ P03410] interacts with 1 human partners:{P41219}  
4511 Pathogen[ P14075] interacts with 1 human partners:{P41219}  
4512 Pathogen[ P0C206] interacts with 1 human partners:{P41219}  
4513 Pathogen[ P03363] interacts with 1 human partners:{P41219}

4514 [Cluster 411]GO:0032592+C cellular\_component [name] integral to mitochondrial membrane [def] "Located such that some or all of the gene product itself penetrates at least one phospholipid bilayer of a mitochondrial membrane. May also refer to the state of being buried in the bilayer with no exposure outside the bilayer." [GOC  
4515 Pathogen[ Q2Q067] interacts with 2 human partners:{P55957;Q9GZY8}  
4516 Pathogen[ P0C214] interacts with 2 human partners:{P55957;Q9GZY8}  
4517 Pathogen[ P03346] interacts with 2 human partners:{P55957;Q9GZY8}  
4518 Pathogen[ Q85601] interacts with 2 human partners:{P55957;Q9GZY8}  
4519 Pathogen[ P14079] interacts with 4 human partners:{Q15070;Q9BUB7;Q9GZY8;P55957}  
4520 Pathogen[ P03383] interacts with 2 human partners:{P55957;Q9GZY8}  
4521 Pathogen[ P03410] interacts with 4 human partners:{Q9BUB7;Q9GZY8;P55957;Q15070}  
4522 Pathogen[ P14075] interacts with 4 human partners:{P55957;Q15070;Q9GZY8;Q9BUB7}  
4523 Pathogen[ P0C206] interacts with 4 human partners:{Q9BUB7;Q15070;Q9GZY8;P55957}  
4524 Pathogen[ P03363] interacts with 2 human partners:{P55957;Q9GZY8}

4525 [Cluster 412]GO:0000940+C cellular\_component [name] condensed chromosome outer kinetochore [def] "The region of a condensed chromosome kinetochore most external to centromeric DNA; this outer region mediates kinetochore-microtubule interactions." [GOC  
4526 Pathogen[ Q2Q067] interacts with 7 human  
partners:{P49454;Q8IX90;Q96BD8;Q8WUM0;Q92793;Q8WVK7;Q96EA4}  
4527 Pathogen[ P0C214] interacts with 7 human  
partners:{Q96EA4;Q92793;Q96BD8;Q8IX90;P49454;Q8WUM0;Q8WVK7}  
4528 Pathogen[ P03346] interacts with 7 human  
partners:{Q8WUM0;Q96EA4;Q8IX90;Q92793;Q96BD8;Q8WVK7;P49454}  
4529 Pathogen[ Q85601] interacts with 7 human  
partners:{P49454;Q8WUM0;Q96EA4;Q96BD8;Q8IX90;Q8WVK7;Q92793}  
4530 Pathogen[ P14079] interacts with 7 human  
partners:{Q8IX90;Q92793;Q8WUM0;Q96EA4;Q8WVK7;P49454;Q96BD8}  
4531 Pathogen[ P03383] interacts with 7 human  
partners:{Q8WUM0;P49454;Q96BD8;Q96EA4;Q8WVK7;Q8IX90;Q92793}  
4532 Pathogen[ P03410] interacts with 7 human  
partners:{Q8IX90;P49454;Q96EA4;Q92793;Q8WVK7;Q8WUM0;Q96BD8}  
4533 Pathogen[ P14075] interacts with 7 human  
partners:{Q8WVK7;Q96BD8;Q96EA4;Q8IX90;Q92793;Q8WUM0;P49454}  
4534 Pathogen[ P0C206] interacts with 7 human  
partners:{P49454;Q8IX90;Q92793;Q8WUM0;Q96BD8;Q96EA4;Q8WVK7}  
4535 Pathogen[ P03363] interacts with 7 human  
partners:{Q96EA4;P49454;Q96BD8;Q8WVK7;Q8IX90;Q8WUM0;Q92793}

4536 [Cluster 413]GO:0030688+C cellular\_component [name] preribosome, small subunit precursor [def] "A preribosomal complex consisting of 20S pre-rRNA, ribosomal proteins including late-associating small subunit proteins, and associated proteins\_ a precursor of the eukaryotic cytoplasmic small ribosomal subunit." [PMID  
4537 Pathogen[ Q2Q067] interacts with 3 human partners:{P56182;Q14684;O75691}  
4538 Pathogen[ P0C214] interacts with 3 human partners:{O75691;Q14684;P56182}  
4539 Pathogen[ P03346] interacts with 3 human partners:{O75691;P56182;Q14684}  
4540 Pathogen[ Q85601] interacts with 3 human partners:{O75691;Q14684;P56182}  
4541 Pathogen[ P14079] interacts with 3 human partners:{O75691;P56182;Q14684}  
4542 Pathogen[ P03383] interacts with 3 human partners:{O75691;Q14684;P56182}  
4543 Pathogen[ P03410] interacts with 3 human partners:{Q14684;P56182;O75691}  
4544 Pathogen[ P14075] interacts with 3 human partners:{P56182;O75691;Q14684}  
4545 Pathogen[ P0C206] interacts with 3 human partners:{P56182;O75691;Q14684}  
4546 Pathogen[ P03363] interacts with 3 human partners:{P56182;O75691;Q14684}

4547 [Cluster 414]GO:0005854+C cellular\_component [name] nascent polypeptide-associated complex [def] "A heterodimeric protein complex that can reversibly bind to ribosomes, and is located in direct proximity to newly synthesized polypeptide chains as they emerge from the ribosome." [PMID  
4548 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13765}  
4549 Pathogen[ P0C214] interacts with 1 human partners:{Q13765}  
4550 Pathogen[ P03346] interacts with 1 human partners:{Q13765}

4551 Pathogen[ Q85601] interacts with 1 human partners:{Q13765}

4552 Pathogen[ P14079] interacts with 1 human partners:{Q13765}

4553 Pathogen[ P03383] interacts with 1 human partners:{Q13765}

4554 Pathogen[ P03410] interacts with 1 human partners:{Q13765}

4555 Pathogen[ P14075] interacts with 1 human partners:{Q13765}

4556 Pathogen[ P0C206] interacts with 1 human partners:{Q13765}

4557 Pathogen[ P03363] interacts with 1 human partners:{Q13765}

4558 [Cluster 415]GO:0000307+C cellular\_component [name] cyclin-dependent protein kinase holoenzyme complex [def] "Cyclin-dependent protein kinases (CDKs) are heterodimeric enzymes that contain a kinase catalytic subunit associated with a regulatory cyclin partner." [GOC

4559 Pathogen[ Q2Q067] interacts with 8 human partners:{P30281;P24385;P30279;P24864;P38936;P24941;P11802;Q00534}

4560 Pathogen[ P0C214] interacts with 8 human partners:{P11802;P24385;P38936;Q00534;P30281;P24941;P24864;P30279}

4561 Pathogen[ P03346] interacts with 8 human partners:{P30281;P24385;P30279;P24941;P24864;P11802;Q00534;P38936}

4562 Pathogen[ Q85601] interacts with 8 human partners:{P30281;P24385;P11802;P30279;P38936;Q00534;P24941;P24864}

4563 Pathogen[ P14079] interacts with 2 human partners:{P24864;P38936}

4564 Pathogen[ P03383] interacts with 7 human partners:{P24385;Q00534;P11802;P30279;P24941;P24864;P30281}

4565 Pathogen[ P03410] interacts with 8 human partners:{P30279;Q00534;P24385;P38936;P24941;P11802;P30281;P24864}

4566 Pathogen[ P14075] interacts with 7 human partners:{P24941;P11802;P30281;P30279;Q00534;P24385;P24864}

4567 Pathogen[ P0C206] interacts with 8 human partners:{P30279;P38936;P24864;P24941;P11802;P24385;Q00534;P30281}

4568 Pathogen[ P03363] interacts with 7 human partners:{P24864;P30279;P24941;Q00534;P24385;P11802;P30281}

4569 [Cluster 416]GO:0035985+C cellular\_component [name] senescence-associated heterochromatin focus [def] "A transcriptionally-silent heterochromatin structure present in senescent cells. Contains the condensed chromatin of one chromosome and is enriched for histone modifications. Thought to repress expression of proliferation-promoting genes." [GOC

4570 Pathogen[ Q2Q067] interacts with 2 human partners:{P42771;P17096}

4571 Pathogen[ P0C214] interacts with 2 human partners:{P17096;P42771}

4572 Pathogen[ P03346] interacts with 2 human partners:{P42771;P17096}

4573 Pathogen[ Q85601] interacts with 2 human partners:{P17096;P42771}

4574 Pathogen[ P14079] interacts with 2 human partners:{P17096;P42771}

4575 Pathogen[ P03383] interacts with 2 human partners:{P17096;P42771}

4576 Pathogen[ P03410] interacts with 2 human partners:{P42771;P17096}

4577 Pathogen[ P14075] interacts with 2 human partners:{P17096;P42771}

4578 Pathogen[ P0C206] interacts with 2 human partners:{P42771;P17096}

4579 Pathogen[ P03363] interacts with 2 human partners:{P17096;P42771}

4580 [Cluster 417]GO:0008385+C cellular\_component [name] IkappaB kinase complex [def] "A protein serine/threonine kinase that phosphorylates IkappaB, thereby targeting this for proteasomal degradation and allowing the nuclear translocation of kB. Composed of alpha, beta and gamma subunits, the latter not having kinase activity but presumed to play a regulatory role." [GOC

4581 Pathogen[ Q2Q067] interacts with 7 human partners:{Q8IUD2;Q8WXC3;Q9Y6K9;O14920;O43318;O15111;Q96EY1}

4582 Pathogen[ P0C214] interacts with 7 human partners:{O15111;Q9Y6K9;O43318;Q8WXC3;Q8IUD2;O14920;Q96EY1}

4583 Pathogen[ P03346] interacts with 7 human partners:{Q9Y6K9;O15111;Q8IUD2;Q8WXC3;O14920;O43318;Q96EY1}

4584 Pathogen[ Q85601] interacts with 7 human partners:{O15111;Q9Y6K9;O14920;Q8WXC3;O43318;Q8IUD2;Q96EY1}

4585 Pathogen[ P14079] interacts with 4 human partners:{Q8WXC3;Q8IUD2;Q9Y6K9;Q96EY1}

4586 Pathogen[ P03383] interacts with 7 human partners:{Q9Y6K9;O14920;O15111;O43318;Q8WXC3;Q8IUD2;Q96EY1}

4587 Pathogen[ P03410] interacts with 7 human partners:{O14920;O15111;O43318;Q8IUD2;Q8WXC3;Q9Y6K9;Q96EY1}

4588 Pathogen[ P14075] interacts with 7 human partners:{O15111;Q8IUD2;O14920;Q8WXC3;O43318;Q9Y6K9;Q96EY1}

4589 Pathogen[ P0C206] interacts with 7 human partners:{O14920;Q9Y6K9;O43318;Q8IUD2;O15111;Q96EY1;Q8WXC3}

4590 Pathogen[ P03363] interacts with 7 human partners:{O14920;O15111;Q9Y6K9;O43318;Q8WXC3;Q96EY1;Q8IUD2}

4591 [Cluster 418]GO:0005876+C cellular\_component [name] spindle microtubule [def] "Any microtubule that is part of a mitotic or meiotic spindle\_ anchored at one spindle pole." [ISBN

4592 Pathogen[ Q2Q067] interacts with 21 human partners:{Q14980;O43663;Q7Z460;Q96R06;Q969S2;O15379;P06746;Q6PGN9;O60907;O00139;Q8IX90;Q96BD8;Q9BZK7;Q9BXS6;Q92845;Q9UKK3;P30260;O75376;Q13042;Q8WVK7;O15392}

4593 Pathogen[ P0C214] interacts with 20 human

4594 partners:{P06746;O60907;Q96R06;Q9BXS6;O00139;Q14980;Q6PGN9;Q96BD8;O43663;O75376;O15379;Q92845;O15392;Q8IX90;Q7Z460;Q9UUKK3;Q9BZK7;P30260;Q8WVK7;Q13042}  
Pathogen[ P03346] interacts with 23 human

4595 partners:{Q9BXS6;O60907;O15392;O15379;Q96R06;O00139;Q9UUKK3;Q14980;Q969S2;Q13042;Q6PGN9;O75376;Q8IX90;P36405;Q9BZK7;Q7Z460;Q92845;P30260;O43663;P06746;Q96BD8;O14965;Q8WVK7}  
Pathogen[ Q85601] interacts with 23 human

4596 partners:{Q6PGN9;P36405;Q969S2;O60907;Q9UUKK3;Q9BXS6;O15392;Q96R06;O43663;O14965;Q13042;Q96BD8;O75376;Q8IX90;Q14980;Q8WVK7;Q9BZK7;Q92845;O15379;P06746;Q7Z460;P30260;O00139}  
Pathogen[ P14079] interacts with 24 human

4597 partners:{Q14980;O15379;Q9BZK7;Q7Z460;Q8IX90;Q96R06;O15392;O60907;Q9UUKK3;Q9BXS6;O15066;P36405;O43663;Q13042;O00139;Q8WVK7;Q969S2;Q6PGN9;P06746;P30260;O75376;Q92845;Q96BD8;O14965}  
Pathogen[ P03383] interacts with 19 human

4598 partners:{Q7Z460;P06746;Q96BD8;O75376;O60907;Q9BXS6;Q13042;Q96R06;Q6PGN9;Q8WVK7;O15379;O14965;Q8IX90;Q14980;Q9UUKK3;Q9BZK7;Q92845;O43663;P30260}  
Pathogen[ P03410] interacts with 23 human

4599 partners:{Q8IX90;Q7Z460;O15392;O00139;P36405;Q92845;P06746;O75376;Q96R06;Q9BXS6;O14965;Q14980;Q13042;O15379;Q8WVK7;P30260;Q9BZK7;Q9UUKK3;Q969S2;Q6PGN9;Q96BD8;O60907;O43663}  
Pathogen[ P14075] interacts with 20 human

4600 partners:{Q13042;O43663;Q92845;Q96R06;Q8WVK7;Q7Z460;P06746;Q9BXS6;Q96BD8;O75376;O00139;O14965;O60907;Q8IX90;O15379;Q6PGN9;Q9BZK7;Q14980;P30260;Q9UUKK3}  
Pathogen[ P0C206] interacts with 22 human

4601 partners:{Q92845;O60907;P06746;Q6PGN9;P30260;Q8IX90;Q96BD8;Q9UUKK3;O15379;O43663;Q9BZK7;O75376;O15392;O00139;P36405;Q969S2;Q9BXS6;O14965;Q14980;Q7Z460;Q13042;Q8WVK7}  
Pathogen[ P03363] interacts with 21 human

4602 partners:{Q92845;Q13042;Q96BD8;Q14980;O15379;Q9BZK7;O75376;O60907;Q8WVK7;Q9BXS6;P30260;Q8IX90;Q6PGN9;Q96R06;Q9UUKK3;P06746;Q7Z460;O15066;O43663;O00139;Q969S2}  
[Cluster 419]GO:0031513+C cellular\_component [name] nonmotile primary cilium [def] "A primary cilium which contains a variable array of axonemal microtubules but does not contain molecular motors. Nonmotile primary cilia are found on many different cell types and function as sensory organelles that concentrate and organize sensory signaling molecules." [GOC

4603 Pathogen[ Q2Q067] interacts with 1 human partners:{Q15154}  
4604 Pathogen[ P0C214] interacts with 1 human partners:{Q15154}  
4605 Pathogen[ P03346] interacts with 2 human partners:{Q15154;Q8N157}  
4606 Pathogen[ Q85601] interacts with 1 human partners:{Q15154}  
4607 Pathogen[ P14079] interacts with 2 human partners:{Q8N157;Q15154}  
4608 Pathogen[ P03383] interacts with 1 human partners:{Q15154}  
4609 Pathogen[ P03410] interacts with 2 human partners:{Q15154;Q8N157}  
4610 Pathogen[ P14075] interacts with 1 human partners:{Q15154}  
4611 Pathogen[ P0C206] interacts with 2 human partners:{Q8N157;Q15154}  
4612 Pathogen[ P03363] interacts with 2 human partners:{Q8N157;Q15154}

4613 [Cluster 420]GO:0005782+C cellular\_component [name] peroxisomal matrix [def] "The volume contained within the membranes of a peroxisome\_ in many cells the matrix contains a crystalloid core largely composed of urate oxidase." [GOC

4614 Pathogen[ Q2Q067] interacts with 1 human partners:{O14734}  
4615 Pathogen[ P0C214] interacts with 3 human partners:{O75874;O14832;O14734}  
4616 Pathogen[ P03346] interacts with 3 human partners:{P07148;O14734;P50542}  
4617 Pathogen[ Q85601] interacts with 1 human partners:{O14734}  
4618 Pathogen[ P14079] interacts with 3 human partners:{P50542;O14832;O14734}  
4619 Pathogen[ P03383] interacts with 1 human partners:{O14734}  
4620 Pathogen[ P03410] interacts with 3 human partners:{O14734;O14832;P50542}  
4621 Pathogen[ P14075] interacts with 2 human partners:{O14734;O14832}  
4622 Pathogen[ P0C206] interacts with 3 human partners:{O14832;P50542;O14734}  
4623 Pathogen[ P03363] interacts with 1 human partners:{O14734}

4624 [Cluster 421]GO:0031932+C cellular\_component [name] TORC2 complex [def] "A protein complex that contains at least TOR (target of rapamycin) and Rictor (rapamycin-insensitive companion of TOR), or orthologs of, in complex with other signaling components. Mediates the phosphorylation and activation of PKB (also called AKT). In Saccharomyces, the complex contains Avolp, Avo2p, Tsc1lp, Lst8p, Bit6lp, Slm1p, Slm2p, and Tor2p." [GOC

4625 Pathogen[ Q2Q067] interacts with 2 human partners:{P62750;Q6R327}  
4626 Pathogen[ P0C214] interacts with 2 human partners:{Q6R327;P62750}  
4627 Pathogen[ P03346] interacts with 2 human partners:{P62750;Q6R327}  
4628 Pathogen[ Q85601] interacts with 1 human partners:{P62750}  
4629 Pathogen[ P14079] interacts with 2 human partners:{Q6R327;P62750}  
4630 Pathogen[ P03383] interacts with 1 human partners:{P62750}  
4631 Pathogen[ P03410] interacts with 2 human partners:{P62750;Q6R327}  
4632 Pathogen[ P14075] interacts with 2 human partners:{P62750;Q6R327}  
4633 Pathogen[ P0C206] interacts with 2 human partners:{P62750;Q6R327}  
4634 Pathogen[ P03363] interacts with 2 human partners:{P62750;Q6R327}

4635 [Cluster 422]GO:0005642+C cellular\_component [name] annulate lamellae [def] "Stacks of endoplasmic reticulum (ER) membranes containing a high density of nuclear pores,

thought to form from excess nuclear membrane components, that have been described in a number of different cells. Annulate lamellar membranes are continuous with and embedded within the ER." [PMID

4636 Pathogen[ Q2Q067] interacts with 2 human partners:{P63241;O14980}

4637 Pathogen[ P0C214] interacts with 2 human partners:{P63241;O14980}

4638 Pathogen[ P03346] interacts with 2 human partners:{P63241;O14980}

4639 Pathogen[ Q85601] interacts with 2 human partners:{P63241;O14980}

4640 Pathogen[ P14079] interacts with 1 human partners:{P63241}

4641 Pathogen[ P03383] interacts with 2 human partners:{P63241;O14980}

4642 Pathogen[ P03410] interacts with 2 human partners:{P63241;O14980}

4643 Pathogen[ P14075] interacts with 2 human partners:{P63241;O14980}

4644 Pathogen[ P0C206] interacts with 1 human partners:{P63241}

4645 Pathogen[ P03363] interacts with 2 human partners:{O14980;P63241}

4646 [Cluster 423]GO:0016592+C cellular\_component [name] mediator complex [def] "A protein complex that interacts with the carboxy-terminal domain of the largest subunit of RNA polymerase II and plays an active role in transducing the signal from a transcription factor to the transcriptional machinery. The mediator complex is required for activation of transcription of most protein-coding genes, but can also act as a transcriptional corepressor. The Saccharomyces complex contains several identifiable subcomplexes

4647 Pathogen[ Q2Q067] interacts with 30 human partners:{Q9BUE0;Q9Y3C7;Q96HR3;Q9NPJ6;O95402;Q9H944;Q9BTT4;Q93074;Q15528;O75586;O75448;O60244;Q9P086;Q9ULK4;Q96G25;Q9UHV7;Q9NWA0;A0JLT2;Q9NVC6;Q13503;Q86YW9;Q9NX70;Q9Y2X0;O43513;P49336;Q96PK6;P24863;Q96RN5;Q9Y2W1;Q71F56}

4648 Pathogen[ P0C214] interacts with 30 human partners:{P24863;O75586;Q9P086;Q9Y2X0;Q93074;Q9BUE0;Q9NX70;Q9NWA0;Q96HR3;Q9NVC6;Q9BTT4;O60244;Q9H944;Q9Y3C7;Q96RN5;Q15528;A0JLT2;Q71F56;P49336;O43513;Q86YW9;Q96PK6;Q9UHV7;O75448;Q13503;Q96G25;Q9ULK4;Q9Y2W1;O95402;Q9NPJ6}

4649 Pathogen[ P03346] interacts with 30 human partners:{O95402;Q9NPJ6;Q9NX70;O75586;P24863;P49336;Q96HR3;Q86YW9;Q71F56;Q93074;O60244;Q9BTT4;Q9P086;Q96G25;O75448;Q15528;O43513;Q9Y3C7;A0JLT2;Q9H944;Q9NVC6;Q9Y2X0;Q13503;Q9ULK4;Q9Y2W1;Q9NWA0;Q96PK6;Q9UHV7;Q96RN5;Q9BUE0}

4650 Pathogen[ Q85601] interacts with 30 human partners:{Q9Y2X0;Q9BUE0;Q96PK6;Q9ULK4;Q9UHV7;P49336;Q96G25;Q71F56;O75448;Q9Y3C7;Q9H944;Q13503;Q96RN5;O95402;Q15528;Q9NX70;A0JLT2;Q9BTT4;Q9NWA0;Q86YW9;P24863;O75586;Q9Y2W1;O60244;Q96HR3;Q93074;Q9NPJ6;Q9NVC6;O43513;Q9P086}

4651 Pathogen[ P14079] interacts with 30 human partners:{O60244;O95402;Q9Y2X0;O43513;Q71F56;P49336;Q9BUE0;Q9NX70;Q15528;Q96HR3;Q9Y3C7;Q9ULK4;Q9NVC6;A0JLT2;Q9P086;Q9NWA0;O75448;Q86YW9;O75586;Q9UHV7;Q96RN5;P24863;Q9H944;Q9NPJ6;Q9BTT4;Q13503;Q93074;Q96G25;Q9Y2W1;Q96PK6}

4652 Pathogen[ P03383] interacts with 29 human partners:{O95402;Q9H944;Q9ULK4;Q86YW9;O60244;Q96G25;Q9NPJ6;Q93074;Q96HR3;Q96RN5;O75448;P49336;Q96PK6;Q9Y3C7;Q71F56;Q15528;Q9NX70;Q9P086;A0JLT2;Q9BTT4;Q9UHV7;P24863;Q9NVC6;O75586;Q9Y2W1;Q9NWA0;Q9Y2X0;Q9BUE0;Q13503}

4653 Pathogen[ P03410] interacts with 30 human partners:{Q71F56;Q9Y2W1;Q96PK6;Q96G25;Q13503;Q86YW9;Q9NVC6;Q9NPJ6;Q9NWA0;Q9Y3C7;Q9ULK4;O95402;O43513;Q9BTT4;P49336;Q96HR3;Q9P086;A0JLT2;P24863;O60244;Q9UHV7;Q9Y2X0;Q93074;Q9H944;Q9BUE0;Q9NX70;O75448;Q96RN5;O75586;Q15528}

4654 Pathogen[ P14075] interacts with 30 human partners:{P49336;Q9NPJ6;P24863;Q15528;Q9NX70;Q96HR3;Q71F56;Q9P086;O75448;Q9NWA0;Q86YW9;O95402;O75586;Q9BTT4;Q93074;Q9Y3C7;Q9UHV7;Q96PK6;Q9H944;O60244;A0JLT2;Q9ULK4;Q9NVC6;Q96RN5;Q13503;Q96G25;Q9Y2W1;O43513;Q9Y2X0;Q9BUE0}

4655 Pathogen[ P0C206] interacts with 30 human partners:{Q9BUE0;P24863;P49336;Q96HR3;Q9P086;O75586;Q9Y3C7;Q86YW9;Q9UHV7;Q9NX70;O43513;Q96RN5;O95402;Q9H944;Q9NPJ6;Q96PK6;Q9Y2W1;Q9BTT4;O60244;Q9ULK4;Q9NVC6;O75448;Q9NWA0;Q71F56;Q13503;Q9Y2X0;A0JLT2;Q96G25;Q93074;Q15528}

4656 Pathogen[ P03363] interacts with 28 human partners:{Q15528;Q13503;Q96HR3;P24863;Q9NX70;Q96PK6;Q9NWA0;Q9BUE0;Q9NVC6;Q71F56;Q96RN5;Q9UHV7;A0JLT2;O75586;P49336;Q93074;O75448;Q9BTT4;O95402;Q9NPJ6;O60244;Q9P086;Q9ULK4;Q86YW9;O43513;Q96G25;Q9H944;Q9Y3C7}

4657 [Cluster 424]GO:0044224+C cellular\_component [name] juxtaparanode region of axon [def] "A region of an axon near a node of Ranvier that is between the paranode and internode regions." [GOC

4658 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9Y2J2;P78352}

4659 Pathogen[ P0C214] interacts with 1 human partners:{P78352}

4660 Pathogen[ P03346] interacts with 3 human partners:{P78352;Q9Y2J2;Q15700}

4661 Pathogen[ Q85601] interacts with 2 human partners:{Q9Y2J2;P78352}

4662 Pathogen[ P14079] interacts with 2 human partners:{Q9Y2J2;Q15700}

4663 Pathogen[ P03383] interacts with 1 human partners:{P78352}

4664 Pathogen[ P03410] interacts with 3 human partners:{Q15700;Q9Y2J2;P78352}

4665 Pathogen[ P14075] interacts with 2 human partners:{Q9Y2J2;P78352}

4666 Pathogen[ P0C206] interacts with 3 human partners:{P78352;Q15700;Q9Y2J2}

4667 Pathogen[ P03363] interacts with 3 human partners:{P78352;Q15700;Q9Y2J2}

4668 [Cluster 425]GO:0042555+C cellular\_component [name] MCM complex [def] "A hexameric protein complex required for the initiation and regulation of DNA replication." [GOC

4669 Pathogen[ Q2Q067] interacts with 4 human partners:{Q96HA7;P25205;Q6ZRQ5;Q9BTE3}

4670 Pathogen[ P0C214] interacts with 5 human

4671 partners:{Q6ZRQ5;P25205;Q9BTE3;Q14566;Q96HA7}  
Pathogen[ P03346] interacts with 7 human

4672 partners:{Q96HA7;Q6ZRQ5;Q14566;P25205;P33992;P33991;Q9BTE3}  
Pathogen[ Q85601] interacts with 6 human

4673 partners:{Q96HA7;Q9BTE3;Q6ZRQ5;Q14566;P25205;P33992}  
Pathogen[ P14079] interacts with 6 human

4674 partners:{Q14566;Q9BTE3;Q96HA7;P33992;Q6ZRQ5;P25205}  
Pathogen[ P03383] interacts with 4 human partners:{P25205;Q9BTE3;Q6ZRQ5;Q96HA7}

4675 Pathogen[ P03410] interacts with 6 human  
partners:{P25205;Q9BTE3;P33992;Q14566;Q96HA7;Q6ZRQ5}

4676 Pathogen[ P14075] interacts with 4 human partners:{Q6ZRQ5;Q9BTE3;Q96HA7;P25205}

4677 Pathogen[ P0C206] interacts with 6 human  
partners:{Q96HA7;Q9BTE3;P25205;Q6ZRQ5;Q14566;P33992}

4678 Pathogen[ P03363] interacts with 5 human  
partners:{Q9BTE3;P25205;P33992;Q96HA7;Q6ZRQ5}

4679 [Cluster 426]GO:0031253+C cellular\_component [name] cell projection membrane [def]  
"The portion of the plasma membrane surrounding a cell surface projection." [GOC

4680 Pathogen[ Q2Q067] interacts with 2 human partners:{Q12959;Q15691}

4681 Pathogen[ P0C214] interacts with 2 human partners:{Q15691;Q12959}

4682 Pathogen[ P03346] interacts with 2 human partners:{Q15691;Q12959}

4683 Pathogen[ Q85601] interacts with 2 human partners:{Q15691;Q12959}

4684 Pathogen[ P14079] interacts with 1 human partners:{Q15691}

4685 Pathogen[ P03383] interacts with 1 human partners:{Q15691}

4686 Pathogen[ P03410] interacts with 2 human partners:{Q12959;Q15691}

4687 Pathogen[ P14075] interacts with 1 human partners:{Q15691}

4688 Pathogen[ P0C206] interacts with 2 human partners:{Q15691;Q12959}

4689 Pathogen[ P03363] interacts with 2 human partners:{Q12959;Q15691}

4690 [Cluster 427]GO:0030479+C cellular\_component [name] actin cortical patch [def] "A  
discrete actin-containing structure found at the plasma membrane in cells, at sites of  
endocytosis\_ formed of networks of branched actin filaments that lie just beneath the  
plasma membrane and assemble, move, and disassemble rapidly. An example of this is the  
actin cortical patch found in *Saccharomyces cerevisiae*." [GOC

4691 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96QF0}

4692 Pathogen[ P0C214] interacts with 1 human partners:{Q96QF0}

4693 Pathogen[ P03346] interacts with 1 human partners:{Q96QF0}

4694 Pathogen[ Q85601] interacts with 1 human partners:{Q96QF0}

4695 Pathogen[ P14079] interacts with 1 human partners:{Q96QF0}

4696 Pathogen[ P03383] interacts with 1 human partners:{Q96QF0}

4697 Pathogen[ P03410] interacts with 1 human partners:{Q96QF0}

4698 Pathogen[ P14075] interacts with 1 human partners:{Q96QF0}

4699 Pathogen[ P0C206] interacts with 1 human partners:{Q96QF0}

4700 Pathogen[ P03363] interacts with 1 human partners:{Q96QF0}

4701 [Cluster 428]GO:0000932+C cellular\_component [name] cytoplasmic mRNA processing body  
[def] "A focus in the cytoplasm where mRNAs may become inactivated by decapping or some  
other mechanism. mRNA processing and binding proteins are localized to these foci." [GOC

4702 Pathogen[ Q2Q067] interacts with 30 human  
partners:{Q92900;C9JE40;Q8IU60;Q9NPI6;A5YKK6;Q9HCK5;P19474;Q96F86;A6NIX2;P11387;Q7517  
5;Q86TB9;P26196;Q96IF1;Q9UIV1;Q9UGP4;Q8ND56;Q9Y2V2;Q9H9G7;Q9H9Z2;Q9UKV8;Q9BX70;Q9H0C5  
;Q9C035;Q9HCE1;Q92600;Q9NPJ4;Q9UL18;P06730;Q6P2E9}

4703 Pathogen[ P0C214] interacts with 31 human  
partners:{Q9UGP4;P26196;Q8ND56;P19474;Q6P2E9;C9JE40;Q9NPI6;Q92900;Q9C035;Q9Y2V2;Q9NPJ  
4;Q9HCE1;Q9UIV1;Q9UPQ9;A6NIX2;A5YKK6;Q9H9G7;Q86TB9;Q8NDV7;Q9H9Z2;Q8IU60;Q9UKV8;P11387  
;Q9BX70;Q9HCK5;Q92600;P06730;Q75175;Q96F86;Q9UL18;Q9H0C5}

4704 Pathogen[ P03346] interacts with 34 human  
partners:{Q8ND56;P06730;Q9UGP4;Q9NPI6;Q9UIV1;Q75175;Q9Y2V2;Q9H9G7;Q9UL18;Q9C035;Q96IF  
1;A5YKK6;Q9NPJ4;Q8IU60;Q9HCK5;Q86TB9;Q6P2E9;A6NIX2;Q9UKV8;Q9BX70;P19474;P26196;Q9H9Z2  
;Q6ZN04;Q9UPQ9;Q9HCE1;Q92900;A1L020;Q96F86;C9JE40;Q96KE9;P11387;Q92600;Q9H0C5}

4705 Pathogen[ Q85601] interacts with 32 human  
partners:{Q9HCE1;Q6P2E9;Q9NPI6;Q9HCK5;P06730;A6NIX2;C9JE40;Q9UL18;Q9UIV1;A1L020;Q9260  
0;Q86TB9;P11387;Q9H9G7;A5YKK6;Q9Y2V2;Q9NPJ4;Q9UKV8;Q9H0C5;Q9C035;Q9BX70;P26196;Q96IF1  
;Q9UGP4;Q96F86;P19474;Q9UPQ9;Q92900;Q75175;Q9H9Z2;Q8IU60;Q8ND56}

4706 Pathogen[ P14079] interacts with 33 human  
partners:{Q9UKV8;Q92600;Q9UL18;Q9H9G7;P06730;Q9C035;Q8ND56;Q8IU60;C9JE40;Q9NPI6;Q9HCE  
1;Q9HCK5;Q86TB9;Q6P2E9;Q14444;A5YKK6;Q9H9Z2;A1L020;P19474;Q96IF1;P26196;Q96F86;A6NIX2  
;Q75175;Q9UIV1;Q92900;Q9BX70;Q9NPJ4;Q9Y2V2;Q9UGP4;Q9UPQ9;Q8NDV7;Q9H0C5}

4707 Pathogen[ P03383] interacts with 30 human  
partners:{P19474;Q9H9Z2;Q9UL18;Q8IU60;Q9H0C5;Q9UPQ9;A6NIX2;Q9HCK5;P11387;P26196;P0673  
0;Q9C035;Q9UGP4;Q9NPI6;A5YKK6;Q8ND56;Q9UIV1;Q86TB9;Q92600;Q9UKV8;Q9BX70;C9JE40;Q96F86  
;Q9Y2V2;Q9HCE1;Q75175;Q92900;Q9NPJ4;Q9H9G7;Q6P2E9}

4708 Pathogen[ P03410] interacts with 31 human  
partners:{Q8IU60;Q9UPQ9;Q9UKV8;Q9NPJ4;Q92900;Q9UL18;P06730;Q9NPI6;Q9UGP4;A1L020;Q8NDV  
7;Q9BX70;Q9Y2V2;Q9H9G7;Q9UIV1;Q96IF1;A6NIX2;Q9C035;Q96F86;Q6P2E9;Q9HCE1;Q9H0C5;P11387  
;Q9HCK5;Q75175;Q8ND56;Q86TB9;Q9H9Z2;Q92600;A5YKK6;C9JE40}

4709 Pathogen[ P14075] interacts with 30 human  
partners:{Q6P2E9;P11387;Q92900;Q9HCK5;Q9NPJ4;Q9H9G7;P26196;Q92600;Q9UGP4;Q9H9Z2;Q9HCE  
1;Q9Y2V2;Q75175;P06730;Q9NPI6;Q8IU60;Q9UPQ9;Q86TB9;P19474;A6NIX2;Q9C035;Q9UKV8;Q9BX70



4710 ;Q9H0C5;Q9UL18;Q9UIV1;A5YKK6;Q96F86;C9JE40;Q8ND56}  
 Pathogen[ P0C206] interacts with 34 human  
 partners:{Q9HCK5;Q9NPJ4;Q86TB9;Q8ND56;Q9UGP4;Q96IF1;Q9UIV1;Q9Y2V2;C9JE40;A6NIX2;P2619  
 6;O75175;Q9UPQ9;Q9NPI6;Q9UKV8;Q9BX70;Q8NDV7;P06730;Q9HCE1;Q9H9Z2;Q6ZN04;Q6P2E9;Q96F86  
 ;A5YKK6;Q9C035;Q92600;Q9H0C5;Q9H9G7;Q92900;A1L020;P11387;Q8IU60;Q9UL18;P19474}

4711 Pathogen[ P03363] interacts with 34 human  
 partners:{Q92900;P11387;Q9Y2V2;A5YKK6;Q6P2E9;Q9H9G7;Q9H0C5;Q9HCK5;Q9UKV8;Q9BX70;Q9NPJ  
 4;A1L020;Q8NDV7;Q96IF1;C9JE40;Q9UGP4;Q96F86;P19474;Q9HCE1;Q96KE9;Q9H9Z2;P26196;Q9C035  
 ;Q92600;Q9UPQ9;Q9UL18;Q8ND56;O75175;Q9UIV1;Q86TB9;A6NIX2;P06730;Q9NPI6;Q8IU60}

4712 [Cluster 429]GO:0031225+C cellular\_component [name] anchored to membrane [def]  
 "Tethered to a membrane by a covalently attached anchor, such as a lipid group, that is  
 embedded in the membrane. When used to describe a protein, indicates that none of the  
 peptide sequence is embedded in the membrane." [GOC

4713 Pathogen[ Q2Q067] interacts with 3 human partners:{P04156;P25063;Q6ZVN8}  
 4714 Pathogen[ P0C214] interacts with 4 human partners:{P25063;Q6ZVN8;P04156;Q17RY6}  
 4715 Pathogen[ P03346] interacts with 4 human partners:{Q6ZVN8;Q13449;P04156;P25063}  
 4716 Pathogen[ Q85601] interacts with 2 human partners:{Q17RY6;P04156}  
 4717 Pathogen[ P14079] interacts with 23 human  
 partners:{Q8N6Q3;Q6ZVN8;Q14210;P04156;Q9UKY0;O95867;Q8NI32;P31358;Q9BY14;Q6UX82;Q496H  
 8;Q9NPD7;Q6UXB3;Q17RY6;O95868;P54826;Q6UWN0;O94772;P25063;Q99445;Q5BIV9;Q8N2G4;Q96B86  
 }

4718 Pathogen[ P03383] interacts with 4 human partners:{Q17RY6;P04156;P25063;Q6ZVN8}  
 4719 Pathogen[ P03410] interacts with 24 human  
 partners:{Q5BIV9;Q8N6Q3;Q96B86;Q9NPD7;O95867;Q496H8;Q14210;Q99445;P31358;Q9BY14;Q6ZVN  
 8;P25063;Q9UKY0;Q6UWN0;P04156;Q8N2G4;P54826;O95868;Q9BZR6;Q6UXB3;Q8NI32;Q13449;O94772  
 ;Q6UX82}

4720 Pathogen[ P14075] interacts with 7 human  
 partners:{Q5BIV9;P04156;Q17RY6;Q6ZVN8;Q496H8;P54826;P25063}  
 4721 Pathogen[ P0C206] interacts with 12 human  
 partners:{P04156;O95867;P25063;Q99445;Q17RY6;Q6ZVN8;Q9UKY0;Q9NPD7;Q96B86;P54826;Q5BIV  
 9;O95868}

4722 Pathogen[ P03363] interacts with 2 human partners:{P04156;Q6ZVN8}  
 4723 [Cluster 430]GO:0043240+C cellular\_component [name] Fanconi anaemia nuclear complex  
 [def] "A protein complex composed of the Fanconi anaemia (FA) proteins including A, C, E,  
 G and F (FANCA-F). Functions in the activation of the downstream protein FANCD2 by  
 monoubiquitylation, and is essential for protection against chromosome breakage." [GOC

4724 Pathogen[ Q2Q067] interacts with 12 human  
 partners:{Q9HB96;Q8N2Z9;A8MT69;Q00597;Q8NB91;Q9BTP7;Q9NPI8;O15287;Q8IYD8;O15360;Q9NW3  
 8;Q6NZ36}

4725 Pathogen[ P0C214] interacts with 10 human  
 partners:{O15287;Q00597;Q6NZ36;Q8N2Z9;Q9HB96;O15360;Q9NPI8;Q8IYD8;Q9NW38;Q9BTP7}

4726 Pathogen[ P03346] interacts with 12 human  
 partners:{Q8N2Z9;Q8NB91;A8MT69;O15360;Q9BTP7;Q6NZ36;O15287;Q9HB96;Q00597;Q8IYD8;Q9NPI  
 8;Q9NW38}

4727 Pathogen[ Q85601] interacts with 11 human  
 partners:{Q9BTP7;Q8IYD8;Q6NZ36;Q9NPI8;Q00597;Q9HB96;A8MT69;Q9NW38;Q8N2Z9;O15360;O1528  
 7}

4728 Pathogen[ P14079] interacts with 11 human  
 partners:{Q8NB91;Q8IYD8;Q9NPI8;Q00597;Q6NZ36;Q8N2Z9;A8MT69;Q9HB96;Q9BTP7;Q9NW38;O1536  
 0}

4729 Pathogen[ P03383] interacts with 9 human  
 partners:{Q8N2Z9;O15287;A8MT69;Q9HB96;Q00597;O15360;Q9NW38;Q9NPI8;Q9BTP7}

4730 Pathogen[ P03410] interacts with 12 human  
 partners:{Q8IYD8;Q8NB91;Q9BTP7;O15287;Q9NPI8;Q00597;Q9HB96;O15360;A8MT69;Q6NZ36;Q9NW3  
 8;Q8N2Z9}

4731 Pathogen[ P14075] interacts with 10 human  
 partners:{A8MT69;Q8NB91;Q9HB96;O15360;Q9NPI8;Q9BTP7;Q9NW38;Q8N2Z9;O15287;Q00597}

4732 Pathogen[ P0C206] interacts with 12 human  
 partners:{Q9NPI8;O15360;Q9BTP7;Q6NZ36;Q9HB96;Q8IYD8;Q8NB91;O15287;Q00597;Q8N2Z9;A8MT6  
 9;Q9NW38}

4733 Pathogen[ P03363] interacts with 12 human  
 partners:{Q9NW38;O15287;O15360;Q00597;Q9BTP7;Q8N2Z9;Q6NZ36;Q8NB91;Q8IYD8;Q9HB96;Q9NPI  
 8;A8MT69}

4734 [Cluster 431]GO:0016605+C cellular\_component [name] PML body [def] "A class of nuclear  
 body\_ they react against SP100 auto-antibodies (PML, promyelocytic leukemia)\_ cells  
 typically contain 10-30 PML bodies per nucleus\_ alterations in the localization of PML  
 bodies occurs after viral infection." [GOC

4735 Pathogen[ Q2Q067] interacts with 51 human  
 partners:{Q93009;O75427;Q9NS56;Q86UA6;Q8IY18;P06400;P27694;Q01130;P13056;Q9NPG3;Q0551  
 6;P14373;Q9UER7;P54198;Q02447;P63279;Q92547;O95551;Q86TB9;O75928;Q06609;P63165;Q8IXH6  
 ;P78317;O96017;P12755;P15927;Q96EP1;P50750;Q9UBW7;P60228;O14746;Q16621;P61244;Q9NRA8;  
 Q99607;Q5VWP3;P12757;Q13569;Q9Y2M5;Q9HC62;O75113;Q96MF7;Q01826;P45973;P23497;Q9Y252;Q  
 9NVV9;Q8NG50;Q8N2W9;Q96A56}

4736 Pathogen[ P0C214] interacts with 52 human  
 partners:{O95551;Q8IY18;P60228;P54198;P61244;Q06609;O14746;P12757;Q14164;P50750;Q9NS5  
 6;Q8N2W9;Q16621;P63279;Q99607;P78317;P13056;Q9NVV9;Q9UER7;O96017;P63165;Q96MF7;Q9Y2M5

4737 Pathogen[ P03346] interacts with 56 human partners: {P15927;Q86TB9;Q93009;Q9UBW7;Q8IXH6;P12755;Q9Y252;P23497;Q01826;Q02447;Q5VWP3;P45973;O75113;Q9HC62;P27694;Q96A56;Q92547;Q86UA6;Q13569;P14373;Q8NG50;P06400;Q05516;Q96EP1;Q01130;O75928;Q9NRA8;Q9NPG3;O75427}

4738 Pathogen[ Q85601] interacts with 54 human partners: {P78317;P54198;Q9NS56;P14373;O75928;O96017;Q93009;P50750;Q92547;Q9NPG3;Q8IY18;Q01130;Q16621;P06400;Q86UA6;Q9HC62;Q6PCD5;Q9UER7;P12757;Q9BZR9;Q8N2W9;Q14149;P63279;P27694;P12755;Q5VWP3;Q86TB9;Q9UBW7;Q8NG50;P60228;Q14164;Q9NVV9;P15927;P45973;O75427;Q01826;Q13569;Q96A56;Q02447;Q05516;P61244;Q99607;Q9Y252;O14746;P63165;Q8IXH6;O75113;Q9NRA8;Q9Y2M5;P13056;Q96EP1;Q06609;O95551;Q96MF7}

4739 Pathogen[ P14079] interacts with 49 human partners: {Q96A56;Q8N2W9;P13056;O14746;Q8IXH6;P12755;P63279;P14373;Q96MF7;O75928;Q99607;Q9NVV9;Q8NG50;Q86TB9;Q14164;Q01826;P54198;Q05516;Q02447;Q13472;Q5VWP3;P63165;Q9UBW7;P23497;Q14149;P45973;Q9HC62;Q9UER7;O75427;Q9NPG3;Q86UA6;Q9Y2M5;Q9NS56;O95551;Q16621;P15927;Q92547;Q96AZ6;P27694;P78317;Q8IY18;P12757;O95361;Q13569;Q06609;P61244;Q9NRA8;O75113;P50750}

4740 Pathogen[ P03383] interacts with 44 human partners: {Q86UA6;Q06609;Q96A56;Q99607;P60228;P27694;Q01826;P78317;Q05516;Q8N2W9;Q96MF7;P06400;Q9UBW7;Q8IXH6;O75427;Q16621;P15927;P45973;Q9NVV9;Q02447;Q01130;O14746;P63165;P50750;Q9UER7;Q86TB9;Q9NPG3;Q13569;P23497;Q9Y252;Q9HC62;O75113;Q9NRA8;Q9Y2M5;P12757;O95551;Q96EP1;Q92547;P61244;P13056;P63279;O96017;O75928}

4741 Pathogen[ P03410] interacts with 48 human partners: {Q8IXH6;P54198;Q9NVV9;P12755;Q02447;P63165;O14746;Q14149;O75427;Q86UA6;Q9NRA8;Q8NG50;O75928;Q8N2W9;P45973;P06400;Q99607;Q9NPG3;P61244;Q96MF7;P50750;O95551;Q13472;Q9HC62;Q9UER7;Q16621;P78317;Q13569;Q96AZ6;Q01826;P12757;O96017;Q92547;Q01130;Q96A56;Q86TB9;Q8IY18;P63279;O75113;P27694;Q9UBW7;P15927;P60228;Q5VWP3;Q96EP1;Q9Y2M5;Q06609;P13056}

4742 Pathogen[ P14075] interacts with 45 human partners: {P63165;Q99607;P23497;O14746;Q9Y252;P61244;Q01130;P50750;P45973;Q5VWP3;Q8N2W9;P15927;P63279;P54198;P13056;Q01826;P12757;P60228;O96017;Q9HC62;Q86TB9;O75928;P78317;P06400;Q8IXH6;P27694;Q02447;O75113;Q05516;Q86UA6;Q9NRA8;Q9UER7;Q16621;Q9Y2M5;Q96MF7;Q13569;Q92547;O75427;Q9NVV9;Q9UBW7;Q96A56;Q06609;Q96EP1;O95551;Q9NPG3}

4743 Pathogen[ P0C206] interacts with 53 human partners: {Q9UBW7;Q8IXH6;Q9NS56;Q6PCD5;P45973;Q86TB9;P50750;O96017;Q96EP1;Q05516;Q8N2W9;Q9HC62;P54198;Q9UER7;P13056;Q93009;P78317;Q96A56;P12755;O75427;Q9NPG3;P60228;Q13569;Q14164;Q9BZR9;O75113;P12757;Q14149;O95361;Q02447;O95551;Q96MF7;P61244;Q16621;Q01826;Q06609;P27694;Q9Y2M5;P15927;P63165;P14373;Q01130;Q92547;Q9Y252;Q8IY18;Q13472;Q99607;Q8NG50;Q5VWP3;Q9NVV9;O14746;Q9NRA8;P06400}

4744 Pathogen[ P03363] interacts with 51 human partners: {Q92547;Q9Y252;Q96EP1;P27694;P54198;Q9BZR9;Q9NRA8;Q8NG50;P14373;Q9NVV9;Q02447;P12757;P45973;Q01826;Q99607;P78317;Q9NPG3;Q16621;Q9UER7;Q01130;O14746;P15927;P23497;P06400;P61244;Q86UA6;O96017;Q96A56;P63165;O75113;Q9Y2M5;Q9HC62;Q13472;Q6PCD5;P63279;P60228;Q13569;Q9UBW7;Q86TB9;P50750;O95551;Q06609;O75427;Q5VWP3;Q8N2W9;Q8IY18;Q05516;Q96MF7;P13056;Q8IXH6;O75928}

4745 [Cluster 432]GO:0012507+C cellular\_component [name] ER to Golgi transport vesicle membrane [def] "The lipid bilayer surrounding a vesicle transporting substances from the endoplasmic reticulum to the Golgi." [GOC

4746 Pathogen[ Q2Q067] interacts with 7 human partners: {P55735;P36956;P53992;O95486;O94855;O95487;Q15436}

4747 Pathogen[ P0C214] interacts with 7 human partners: {P55735;P53992;Q15436;O95487;P49257;O95486;O94855}

4748 Pathogen[ P03346] interacts with 9 human partners: {P55735;P36956;Q12772;P49257;O94855;Q15436;O95486;O95487;P53992}

4749 Pathogen[ Q85601] interacts with 9 human partners: {O95487;Q12772;Q15436;P36956;P49257;P55735;O95486;O94855;P53992}

4750 Pathogen[ P14079] interacts with 9 human partners: {P49257;Q3ZAQ7;O95487;O94855;P53992;Q12772;P55735;O95486;P36956}

4751 Pathogen[ P03383] interacts with 6 human partners: {P55735;O95487;O95486;Q15436;O94855;P53992}

4752 Pathogen[ P03410] interacts with 9 human partners: {P36956;P49257;O94855;P53992;Q15436;Q12772;O95486;P55735;O95487}

4753 Pathogen[ P14075] interacts with 6 human partners: {P53992;P55735;O95487;Q15436;O94855;O95486}

4754 Pathogen[ P0C206] interacts with 9 human partners: {O94855;P55735;P36956;O95486;P49257;O95487;P53992;Q12772;Q15436}

4755 Pathogen[ P03363] interacts with 6 human partners: {Q15436;O95486;P53992;O95487;P55735;O94855}

4756 [Cluster 433]GO:0005739+C cellular\_component [name] mitochondrion [def] "A semiautonomous, self replicating organelle that occurs in varying numbers, shapes, and sizes in the cytoplasm of virtually all eukaryotic cells. It is notably the site of tissue respiration." [ISBN

4757 Pathogen[ Q2Q067 ] interacts with 465 human partners: {O95363;Q8N5N7;P51398;Q96TC7;Q9HD33;Q9H583;Q8TCS8;P30153;Q9BRT2;Q15054;Q9ULD0;O14734;P22392;Q9HBH1;P53370;P82921;O95639;Q9GZT8;Q9BYD6;Q9NXW9;O00411;Q9Y2S7;Q13084;P10746;Q9H2U2;Q9BZE1;Q9H3J6;P82933;P35754;Q9Y305;Q9NRP2;Q9NWS8;Q9Y2X0;O43920;Q5U5X0;Q96CB9;O60239;Q96EL2;Q9BYD1;P17029;Q99747;Q4U2R6;Q9NR28;P55957;Q99417;Q94591;P07195;P63104;Q9Y3F4;Q13875;Q9NNTK1;P82912;Q9BSH4;O60296;P82932;Q63HK5;Q9HAV7;Q9Y3B7;Q9UHB7;Q9P032;Q8IVG9;Q9UMX3;P21980;Q9Y676;P41220;O75394;Q56VL3;Q9H5Q4;Q96A35;Q08209;P31040;P62258;Q96JZ2;Q16775;Q6IE81;Q7KZF4;Q96DX5;P53804;P38646;Q9HCN2;Q9NVN8;Q9Y2R9;Q86TX2;Q93015;Q8WVM0;Q13405;Q9Y606;Q96GC5;Q99497;P82930;O60260;Q9BYN8;Q9BXH1;Q9BUL9;Q9BRQ6;P09132;Q9Y6E7;Q6P1X6;Q9NWU5;P10515;P41970;Q7Z7A3;P22033;Q9BRJ2;Q96B49;O00167;P49419;O60437;P36639;Q5TCL2;P56181;Q9BRG1;P33316;Q96CM4;Q92552;P19367;Q8NF64;O60543;P38117;Q9NZI6;Q9UIF7;Q15046;O75489;Q9NX40;P36543;Q99551;O75896;Q5CZC0;P61604;Q96C86;P30084;Q5T1C6;P82663;P07954;O60238;Q05195;P08238;P63167;Q8N6F7;Q9BYC8;Q9UGC7;O60930;Q15006;Q9Y3D9;O75208;Q9H6T0;O76031;Q86Y79;P18615;Q8IWL3;Q99933;Q6NZI2;Q96S55;Q8WU03;Q9P0M9;Q96I23;P58557;Q9UL16;O75570;Q9Y237;P62244;P13073;P02511;Q9Y2Z2;Q5T653;Q9NVS2;Q9NQE9;P08107;Q8TA A5;P67775;P51610;P42704;Q7L0Y3;Q96AB3;Q330K2;Q5T160;Q9Y291;P17040;P17482;Q9P0J6;Q9NTG7;Q96DP5;P15924;Q13794;P22557;Q96EK5;P21953;Q6P1L8;Q9BV47;Q14790;P13196;Q92558;Q9NZC7;Q5TYM5;O43542;Q06609;O43248;P57721;Q96I59;Q9Y3E5;O96000;O43776;Q9NX18;P32189;Q8IXM3;Q9Y3D3;O15304;Q9Y2R5;P27695;O75323;Q96DB5;O43823;Q9BQ48;O95178;Q06830;Q9H3L0;Q96CW1;Q07021;Q00059;O43502;Q9Y399;Q15004;Q9H4B0;Q9Y2Q9;P59047;Q15388;Q96C00;Q9UII2;P49901;Q5HYI7;P26678;Q9BQ70;Q9UG56;P40337;O15235;O43236;P52758;Q9H2W6;Q6GPH4;Q96EH3;P60900;Q96BW9;Q16143;Q9GZY8;P34896;Q9HD34;P62263;Q9BU61;Q9BSH5;O43678;Q00610;O76095;P62906;Q63ZY3;P82650;Q9BQC6;Q8N5M1;P52815;P56277;P09972;O14862;O60220;P36873;Q9Y5J6;Q92843;Q9P2R6;Q9NQ9P4;P82914;Q2VPK5;Q96IL0;Q96E11;Q8WWC4;O43715;Q7Z7F7;Q13114;Q7LG56;Q9UMS0;Q9HB07;Q16719;Q96E29;Q9NZE8;Q9NWT8;Q8TAE8;A2AJT9;Q12906;Q9HAP2;Q9HD36;O60783;P42575;Q6RSH7;Q9NP92;Q9Y6G3;Q9UQN3;O75251;Q96Q83;P50613;Q9UHV9;O75306;Q6P161;Q00005;P9BQ95;Q96BK5;P57772;Q9Y6H1;Q9NR77;O00198;P99999;P10599;O15527;Q9BYD3;Q9P0J0;Q9NZJ4;Q8N0V3;P21912;Q14739;Q9P2R7;P39748;Q8N1Q8;Q96BP2;Q53G26;Q9BUK0;Q7Z4T9;Q9NX63;Q7Z2X4;Q9UQF2;Q9H4A6;Q9BYD2;Q6P444;Q86WG3;P78316;P12036;Q9Y3D5;P62072;E9PQ53;Q9BQ69;P19838;Q9NRI5;Q9Y697;Q9NNW7;A8K5M9;O95865;P78549;P54098;Q9Y5J7;P54136;Q9H0U6;Q9UPV9;Q9Y6D9;Q7L592;P21399;P28838;O43615;Q9H6G3;Q12983;P04818;Q9BPW8;Q32P41;Q9UI32;P13647;P82675;Q9H9J2;Q9UI43;Q13901;P45984;Q8N490;O95831;Q8TC76;Q99623;O94925;Q6DKK2;A1L188;O43325;Q6PI48;Q9UHN1;Q9NRX2;O14925;Q9P0U1;P40926;Q8N7H5;Q86TS9;Q9ULZ2;Q9HA77;Q8TCC3;P00338;Q7Z6M4;Q7Z4H3;P43897;Q9BW92;Q03393;O00165;P41250;P82664;P14324;Q9Y375;Q49AM1;Q9BQ52;Q9BZF9;Q96NA2;P35232;Q8WYQ3;Q9UBX3;Q99689;P55771;Q9H974;Q8WWR8;P59942;O43402;Q14154;Q9Y3B9;Q9HCM9;P49406;Q04373;P13051;Q9P015;Q9BXF6;P27469;Q9BRX0;A6NFY7;O15287;Q9NVV4;Q9H7H0;P61586;Q96CM3;Q96PG8;Q96DV4;P82909;Q5T1J5;Q9HC16;Q96A26;P09001;Q86VP3;Q8N983;Q9UBY9;Q96EY1;Q16836;Q6ZN17;O94763;Q8TC71;Q9Y255;Q14442;Q96QE5;O95153;P78537;Q16526;O60936;Q9NQ50;O43708;O95571;O15446;Q9BT92;Q9H0N5;P48200;P82673;Q9BYC9;O14879;Q92665;Q9H0E9;Q9UMY1;Q9ULD2;Q96T21;Q9H1K1;Q9C002;P24539;Q9NX20;Q9NQR4}

4758 Pathogen[ P0C214 ] interacts with 622 human partners: {P41970;Q9HD33;Q9BSH5;O00198;Q8WWR8;P27469;P50440;Q16795;P41250;Q96BW9;Q96CW1;Q14410;Q96A35;P49406;Q9NRP2;P02794;Q9UHB7;Q9HBH1;Q9Y399;Q96BK5;O15287;P30084;Q8N5N7;Q96T66;P35754;O75608;Q9BUK0;P82930;P48728;P49419;O75306;Q13907;Q13405;Q9UGC7;Q14739;Q9Y3D5;P09417;Q05195;P41220;Q9H6T0;P08294;Q6ZN17;Q9HBK9;Q9BYD2;O00411;Q96QE5;P27695;Q8N573;Q9BUL9;O60239;Q96EL2;Q05932;Q9BYD1;Q9H9J2;O75874;Q9NSE4;Q96C86;O43678;Q5XKP0;Q06609;Q7L3T8;Q9Y2S7;Q9NVH6;Q969Z0;O95363;P22695;Q99643;Q8N5N5;Q14409;P04818;Q99832;Q9C002;P51610;Q9H4A6;Q9UGM6;O75896;Q8N6F7;O95153;P82912;Q9Y3D9;Q99747;Q15388;P49901;Q9H4I8;P00480;Q9BV47;Q96S55;P11177;Q96DV4;Q16775;P56556;Q8NF64;P28838;Q9NRR8;Q00005;Q13505;Q16740;P62263;Q9HAV7;Q86Y79;P19838;P82675;P57721;Q86XF0;Q9NR15;P30153;Q7Z4H3;Q9UPV9;Q9H0U6;Q96I59;Q9NYK5;O75390;Q16540;Q6P1X6;P54098;O14879;Q7L0Y3;Q9NP81;P57772;Q6P161;P02511;Q9NWS8;Q9Y676;Q6DKK2;P53396;Q92934;Q86TS9;A6NFY7;O60543;Q93015;Q9NP92;Q86U90;Q9Y255;O15235;P33316;P50613;P28331;Q9NNTK1;Q9BU61;O43920;P49590;P12694;Q9BYD3;Q96GC5;Q96MF6;Q9NX20;P15924;O00167;P07954;O60220;Q86W8;Q8N183;O95299;Q96BP2;P17568;Q5JTZ9;P53370;Q9H7H0;Q9Y305;Q9Y6H1;P30405;P61604;Q9UBY9;Q86TX2;Q9NHW7;P61586;Q4U2R6;O15446;A1L188;Q7Z4T9;Q9Y375;Q9NWU5;Q12906;Q9BRX8;Q9Y512;Q8IXM3;P29728;P34897;Q96DP5;Q9P2R6;P55957;Q99623;P17029;P42704;P12277;O43715;Q96NA2;Q99417;Q7Z2W9;P48735;Q63HK5;Q7L2E3;Q8TCD5;O43402;Q9H3L0;O75394;O75208;Q6NZI2;P78537;Q9UI32;P17482;Q9Y2Z2;Q5T653;Q49AM1;Q9HA92;P36543;Q99497;O60296;Q96IL0;P48200;Q8NFU3;O60437;P40939;Q9NX18;Q9UQN3;Q13875;Q9Y2Q9;Q5JPH6;Q7Z2X4;O43776;Q13901;Q99807;Q8WV60;Q4926;P09001;P32189;P22557;Q7KZF4;Q15031;Q9BXR0;Q86UY8;Q96TC7;Q9NWT8;P13196;P36542;Q8IWL3;Q7L592;P82664;Q7Z6M4;P78316;P49591;P82914;Q86VP3;Q8WGX1;Q16718;P55789;Q9Y3E5;Q96JZ2;O43248;Q8N983;Q06830;P62072;O95571;P53701;P18615;Q9NZC7;Q13794;Q9BT92;O14561;Q99798;Q9P2R7;Q9UBX3;Q92665;O76031;P10746;Q9UJ68;P23786;Q00059;Q9H0N5;P50747;Q14197;Q9H3H1;Q9BXH1;Q9H1K1;O95298;Q9GZT8;Q9N2J4;Q9NPG2;Q9Y237;Q9HC16;O14925;Q9UHV9;Q9P0J6;Q03393;Q9UI17;Q96DX5;Q9UMS0;Q8TCC3;Q13011;Q9UII2;P50213;A4D1E9;Q16881;P22033;Q9BQ70;Q13084;P56192;P14618;Q9Y697;P99999;P12074;P51398;Q8TDB4;Q8WWC4;Q8N1Q8;O43542;Q96KC9;Q2VPK5;P43897;Q9NQR4;Q9BQ48;P82663;O43837;O00165;O95865;P21953;Q9HB07;P34896;P56277;Q9NTG7;Q99933;P82921;Q9P0J0;O14832;Q9BRG1;O75570;Q9BQ52;Q9NSK7;Q9BYN8;Q6P587;Q6P1L8;O43615;Q86XE5;P24539;Q9UIF7;Q56VL3;O00154;Q5JTJ3;Q9BWD1;Q9NX63;Q08209;Q9HD36;Q5SW24;Q9UMX3;Q86WU2;Q8N490;Q8TAE8;Q9BUK6;Q9Y5J9;Q8WU03;P82909;Q8TCS8;O43502;Q96E29;Q9NZE8;O43823;O15382;P40337;Q9NXG0;P53804;Q99689;P38646;P58557;Q9ULD2;P42574;Q9UI43;Q8N7H5;Q9Y6G3;P36639;P19367;Q96AB3;Q49AN0;Q9ULD0;P67775;P10809;Q9Y5J6;Q96T21;O60930;Q9NRF8;Q9UMY1;P14324;Q9UQ50;Q9H3J6;Q9HCN2;Q9Y291;Q9Y2R9;Q96DB5;Q53G26;Q15004;Q96CM4;Q8TC76;P13073;Q5T440;Q8TAA5;Q9BXF6;Q9Y3F4;Q9HA77;Q9NR77;Q9HCM9;Q9Y3B9;Q6NVY1;O95202;P38117;Q8N5M1;Q9H4B0;Q9ULZ2;Q96GW9;Q9UG56;Q9BYC9;Q9NXW9;Q5SZD4;Q5TC12;P09972;Q7Z7A3;Q9UQF2;P17040;O95639;Q9H0E9;Q6GPH4;Q9P0J1;Q96C00;O94903;P62244;Q9NR

X2;Q9BRT2;P09622;Q9BZ23;Q12983;Q92558;Q7Z7F7;O96000;Q92843;Q6IE81;Q9Y2R5;Q32P41;Q6IPR1;Q96E11;Q6P444;Q9NV92;E9PQ53;Q9NQE9;Q9BQ69;Q99766;P12036;O95182;Q9NZI6;Q53H82;Q9P0M9;Q9UL12;Q13114;P10909;Q8N3J5;O75489;Q16822;O94925;Q16526;Q5T1J5;O60238;P39748;Q9BQC6;Q3ZCQ8;P52815;Q9Y5J7;O14521;P36873;P82932;Q14154;P21980;Q96I99;Q15006;O14734;Q15054;P10599;Q9Y2Y0;Q9BQ95;P13647;P42765;O75251;Q16143;Q9UI09;P45984;Q5T160;P78549;Q86WV6;Q969I3;Q9BW92;A6NK58;O43325;Q6PI48;O14862;Q9BZF9;O60260;Q8WVM0;Q9H2W6;Q9BYC8;Q8N4Q1;Q9H2K0;Q8N0V3;Q9NVN8;Q6GYQ0;Q9H0B3;P52758;Q9NPJ3;Q96B49;Q5U5X0;Q5T1C6;Q16698;P35998;P60900;Q9HD34;Q9P015;P22392;Q9P0U1;Q8TC71;Q5CZC0;Q86WG3;Q6IN84;O43708;O15527;P16220;P36551;O94763;P35232;P26640;Q9BZE1;Q9Y3B7;Q9H974;Q15046;Q5HYI7;Q6L8Q7;Q9NQP4;Q7LG56;P22830;Q9Y606;Q8N159;Q9Y3D2;Q9NR28;P82673;P59942;Q16762;Q9BRQ6;Q14061;P48163;P21912;P09132;P21399;P08107;Q04837;Q5EBM0;P10515;Q9H902;Q9NVV4;Q5ST30;Q96Q83;O43236;Q9H032;Q8N3R3;Q8WYQ3;Q96PE7;Q96CB9;P26678;Q9GZY8;Q9H3K2;Q96CM3;Q5HYK3;Q9Y6E7;P31939;P82933;O15304;P59047;O75323;P56181;P82650;O95178;Q9BSH4;P11586;Q99551;Q9P2J9;P13804;Q16798;Q96EY1;P42575;Q9Y6D9;Q63ZY3;Q9H583;Q9Y3B8;Q9BYD6;Q96EH3;O60936;P13051;P07195;P36957;P51553;Q16719;Q9Y2Z4;Q9BRJ2;Q9HAP2;Q92552;Q9Y3D3;P30566;A2AJT9;P36404;Q8WW59;P63167;Q9H5Q4;Q9H0P0;O60783;Q9BPW8;P62906;Q6RSH7;Q330K2;Q9NX40;Q9NS39;Q9UHN1;Q6IB77;Q14790;Q96NN9;P55771;P21695;Q9NZL9;Q9NVS2;A8K5M9}

4759

Pathogen[ P03346] interacts with 547 human

partners: {O43402;O75390;P08107;O60437;Q56VL3;Q06945;Q9Y606;P15924;Q96A35;Q9Y6D9;Q9NRI5;O14925;P21980;Q96AB3;P59047;Q9NVS2;Q9H8H1;Q9Y399;Q6P444;O95639;Q9GZT8;P82930;Q9H2U2;P09972;Q96PE7;Q8WYQ3;Q9UGC7;Q9BU61;Q6RSH7;O75608;P45984;O60239;Q96EL2;Q9BYD1;Q8N573;Q14739;P31040;P56181;O75394;Q00005;P49406;Q9P0J6;Q96CM4;Q8N983;P82912;Q06609;Q96C00;P83111;Q5CZC0;Q9NQZ5;Q9P032;Q9NS69;Q8N4Q1;P16220;P82933;Q96EL3;Q6P161;Q96BP2;P59103;Q9BYG8;Q96C86;Q8NFV4;P54098;Q16836;Q8TAE8;P57772;Q6P1Q0;O75489;O00167;Q93015;A2AJT9;Q9NQE9;O43502;P52758;Q9H3J6;Q32P41;O60930;Q9Y3D7;Q8TC71;Q9UBX3;Q9NTK1;Q9H3K2;Q9NR28;Q9UHV9;Q8N6F7;Q9H0U6;Q9UJ72;Q96IL0;Q8TCC3;Q8WWC4;P27469;Q00059;O60238;Q8IXM3;Q9NZL9;O94763;P26678;Q15911;Q9BUK6;Q9ULZ2;P42575;Q9H4A6;Q99689;O43678;Q9NZI6;Q8WXH0;O95178;Q15004;Q9NS39;Q5BKY1;P61604;P62258;O43615;Q6P1X6;Q9NQP4;O15304;P17152;Q9NS18;P55957;P51610;Q49AN0;Q9NXG0;Q9P0U1;Q7Z4T9;Q9H1K1;Q8N5C5;Q8N5M1;Q96A26;Q9BYC8;Q96NA2;P19367;Q9NX40;Q9Y5J7;P58557;P36543;Q9UMS0;Q9BQ48;P10746;Q8WU03;Q12981;P36639;Q7L2E3;Q8IVG9;Q86WU2;Q9BRQ6;P23786;Q9NX18;Q9ULD0;Q12906;Q07021;Q8WW59;P02794;Q9UHN1;Q9H583;Q9Y2Z2;Q63HK5;Q5T653;Q9NVA1;Q9BQP7;Q9NPG2;O60296;Q96C03;Q96T21;P42574;Q96TC7;Q9H2W6;Q16526;Q8IZY5;Q86TX2;Q9UIF7;Q92552;P67775;O43776;Q9BYD2;Q9H4B0;Q7Z2X4;O95153;Q9Y697;A6NFY7;Q9NZJ4;P22557;Q9NXW9;P13196;Q96FC7;Q9H0B3;Q9HD34;P82909;Q96EH3;Q13114;Q9NV92;Q5TYM5;Q12983;Q75208;Q9BYC9;Q6NZI2;Q9BT92;Q03393;Q9BUQ8;Q8NF64;Q9Y3E5;Q9BUL9;Q92843;Q05896;Q9NWT8;Q5T440;Q8TDB4;P09132;P09001;Q9Y6E7;Q9Y255;Q9BV47;P21912;Q9H0E9;O76031;Q9Y371;P30153;Q8N1F1;Q8N490;Q5TC12;P53370;P20132;Q9H902;P41250;Q86Y79;Q9HAV7;Q99417;P51398;Q9UI32;Q96DX5;Q9UHB7;P38646;Q9Y3D9;P82650;O75570;Q9UII2;P99999;Q9BQ70;P12036;Q9NQ4;Q9H4I8;Q9Y5J6;Q6IPR1;P49419;P43897;Q9Y2R5;Q9Y237;P02511;Q7LG56;Q42326;Q96DP5;Q96S55;Q9P0K7;Q9UBY9;Q86UT6;Q9Y2S7;Q9NRX2;P0C7Q2;Q7Z4H3;Q7Z7F7;Q9Y6H1;P24539;O15235;P78537;Q13084;O43920;O15287;Q9BWD1;Q9Y3F4;Q9Y2W6;P13073;Q9P2R6;Q9UPV9;Q9NRP2;Q7KZF4;P82914;O60783;Q86UV5;Q5U4N7;Q9NZC7;O14879;P48728;P42704;Q8N0V3;O60220;Q9Y512;P36873;Q8TCS8;P13051;Q16891;Q96CW1;Q96E11;Q96E29;Q9NZE8;Q92558;Q8TD19;P78316;Q9Y2R9;Q9NVV4;Q9HAP2;Q13875;Q8TC76;Q9HCM9;Q7Z7A3;P60900;Q6P1L8;Q96BK5;Q9Y305;O43542;P36404;P14324;Q9NQ50;Q9H5Q4;P14926;P17029;Q9BYD3;P54136;Q9HD33;Q9NWU5;O00198;Q7L592;P48200;Q96B49;Q9NR77;Q96DV4;Q16143;Q95865;O00411;Q9Y676;Q9BRG1;Q9H6T0;Q99551;Q9Y375;Q53G26;P82921;P38117;Q16719;Q8NFU3;Q9H2C2;P62072;Q9GZT3;Q9ULD2;P22392;Q07820;O95831;Q15006;Q96EK5;Q05195;Q99497;Q6GYQ0;Q9Y6G3;P00338;O43708;Q6IE81;Q9UQN3;Q96Q83;P40337;Q9Y3D5;E9PQ53;Q9BPW8;Q9BQ69;P78549;Q7Z6M4;O75323;O15446;O00165;Q9BYD6;Q969Q5;Q9Y3D3;Q9H7H0;O60260;Q06830;Q96JZ2;Q4U2R6;Q8WVM0;O60936;Q63ZY3;O94925;Q9BQC6;Q9NP92;P63104;Q5T1J5;P14317;Q14790;Q9BXR0;Q9UMY1;Q3ZCQ8;A6NDV4;P07195;O75251;Q96DB5;Q96PG8;O14734;P35754;Q99623;Q6IN84;Q9BRT2;Q6GPH4;P41970;Q86TS9;P42765;P13647;Q9BRJ2;Q9BZE1;P82675;Q9H974;Q15388;Q9Y4U1;Q9UQF2;P32189;P50542;O43427;Q8WWR8;A8K5M9;Q9Y5Z4;P10599;Q13405;Q96C01;P35232;Q5SZD4;Q9C002;Q96QE5;O43325;Q6PI48;Q96GJ1;Q9BXF6;Q5HYK3;Q9BZF9;Q9UG56;P19838;Q8N5N7;O96000;P63167;Q5HYI7;Q9H2K0;Q14442;Q6ZSR3;Q9NWS8;Q7L0Y3;P17040;Q7Z3D6;O75306;P27695;Q9NX63;Q5XKP0;Q9Y2Y0;Q9UMX3;P82663;P52815;P41220;Q86WW8;P62263;P39748;O76095;Q96BW9;Q9P0J0;P82664;P53804;Q16775;P07954;Q08209;P21399;P82932;Q86X76;Q2VPK5;P59942;Q9BUK0;P10515;Q5JTT3;Q86U90;Q04837;Q9Y3B9;Q9H0N5;O95202;Q330K2;Q9UL16;O15527;Q9UI43;O96011;Q49AM1;O43715;Q7Z2W9;Q96I23;Q8N1Q8;P49901;O60543;Q9BXH1;Q9NVN8;Q9UBZ4;Q9BQ52;Q9GZY8;O14862;Q9NTG7;Q9Y291;Q96CM3;Q8TAA5;Q9HD36;P08238;Q9BYN8;Q9BSH4;O43823;Q9HB07;Q86VP3;P56277;Q14154;Q8IWL3;Q96EY1;Q9NRD5;Q00610;Q9HBK9;O43248;Q5U5X0;P18615;Q9BQ95;A1L188;Q86WG3;Q8N7H5;Q6DKK2;Q13901;O95571;Q15054;Q9P015;Q7Z7H8;Q99933;Q13794;Q99747;Q9Y3B7;Q6ZLN17;P82673;P17482;Q96CB9;Q96CC5;P62906;Q9H9J2;P30084;Q92665;Q9P0M9;P62244;Q9BSH5;Q9NPJ3;P61586;Q9NNW7;Q9NX20;P33316;Q9H3L0;P55771;P57721;Q9Y2Q9}

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Pathogen[ Q85601] interacts with 463 human

partners: {Q9UBZ4;Q9P2R6;O14925;Q9BRT2;P30405;P60900;Q9NZC7;Q99497;Q9H8H1;Q9BUL9;Q32P41;Q9BQ52;Q86WV6;A8K5M9;P52815;O15527;O43715;P62244;P09001;P63104;Q9UMY1;Q9BQC6;O60239;Q96EL2;Q5SZD4;Q9BXR0;Q9BYD1;P54136;Q9ULZ2;P17040;Q9NRP2;P08107;Q9P0J0;O43502;O94925;Q9BSH4;Q9BXH1;Q00610;P82930;Q7Z4H3;P99999;P24539;Q6ZLN17;P82912;Q9UQN3;O95831;O43708;Q96A35;Q9UG56;Q8TAA5;Q15388;Q9Y2S7;Q9NQP4;Q9C002;Q8N0V3;Q7Z6M4;Q15004;P82933;Q9H0N5;Q96BP2;Q9Y2R5;O00165;Q9Y3D5;P49406;O60437;Q92558;Q9HD36;Q9NP92;Q96CW1;Q9Y3B7;P13051;O14879;P57772;Q7Z4T9;P21399;O95153;Q4U2R6;Q93015;P00480;P41220;Q6GPH4;Q9Y606;Q9UBX3;O75306;P12036;P52758;Q9H0U6;Q9NX20;Q8TCC3;Q96E11;P82921;Q00005;O43248;Q53G26;P62072;Q16719;P10746;Q92665;Q9H2W6;Q9BQ95;Q9HC16;Q15006;Q14790;Q99417;P40337;O43370;Q9BRG1;Q9BZF9;Q9Y5J9;Q330K2;Q9Y5J6;Q96T21;P61604;Q86TX2;Q8WV60;O15304;Q05195;Q49AN0;Q9Y697;P21912;Q8TDB4;Q5XKP0;P41970;Q9UHV9;Q9H0E9;Q9Y2Y0;Q969Z0;O60220;Q9BYC8;P48200;Q9BYC9;Q9Y5J7;P82932;Q

9UMS0;Q9BQ48;Q8WU03;Q9P0M9;Q12981;P36639;Q7L2E3;O60936;Q9BRQ6;P30153;Q9Y2Z2;P33316;Q5T653;Q5U5X0;Q96QE5;Q00059;Q9NR28;Q9H974;Q49AM1;Q9BYN8;P82675;Q15046;Q92552;O43678;O43776;Q9Y3D9;Q7Z2X4;A2AJT9;Q9UMX3;Q96DX5;Q2VPK5;Q9UPV9;P56181;Q9BYD2;P27469;P18615;Q9BW92;P13196;P21953;Q7KZF4;Q9BT92;Q9NSK7;Q9HD34;Q13114;P32189;Q15054;Q9Y3E5;Q96BW9;Q9NWT8;Q9H7H0;Q9P2R7;O43542;P51610;P62263;Q9P015;O00198;Q9BYD6;Q9Y6E7;Q9HA77;Q9UQF2;Q9BV47;Q9Y6H1;Q99623;P53370;Q08209;P07954;P55771;Q96C86;Q9NXW9;Q5TC12;Q9Y2R9;O14734;P15924;P41250;Q13405;O96000;P56277;P51398;Q9H0B3;A6NFX7;Q9Y3D3;Q5T160;O75570;P10599;O60296;Q9UII2;Q96GC5;Q9Y291;Q9Y512;Q9BQ70;Q9NQR4;Q9Y6G3;Q9Y305;Q9NRX2;Q14154;Q8N983;P82909;Q9H3J6;O15235;Q8N6F7;Q9BUK0;Q7LG56;Q8N1Q8;Q99551;Q13901;Q9Y375;Q9UBY9;P54098;Q7Z7F7;Q96CM4;P78537;Q9BXF6;P34896;Q9UI43;P14618;Q13084;O43920;Q9H2U2;Q99933;O60543;Q12906;Q96BK5;P62258;P42575;Q86Y79;P16220;O75394;P36873;P02511;Q8TCS8;Q96E29;Q9NZE8;P09972;P21980;Q6DKK2;Q9NVS2;Q96AB3;P08238;Q8TC76;Q92843;P42704;Q7Z7A3;Q63ZY3;Q9Y6D9;Q9NX18;P14324;P55957;Q9Y2Q9;Q86UY8;O14862;P17029;Q9BYD3;Q9NWU5;P31040;Q3ZCQ8;Q9HAV7;Q9UGC7;Q9Y3F4;P22033;Q9NR77;Q8N5N7;Q96IL0;Q9Y676;Q9H902;Q9HAP2;Q9NYK5;Q9BSH5;Q9NTK1;Q9NXG0;Q9BRJ2;Q14061;Q96I59;P22392;P82650;Q99689;P61586;P50613;O43615;Q6IE81;Q6IB77;Q9H4A6;P43897;P6775;O43402;E9PQ53;Q9BQ69;Q9NZI6;O75323;O15446;Q9HD33;O95363;O60260;Q06830;Q9NPG2;Q96JZ2;Q99766;O76095;Q6RSH7;Q5T1J5;P14317;O95639;Q86WG3;P45984;P07195;Q8IXM3;Q96Q83;Q12983;Q96S55;P35754;Q9BUK6;Q9UIF7;Q86TS9;Q9NRI5;Q6NZI2;O15287;A4D1E9;P13647;Q9BZE1;P38646;Q8BWC4;Q9NQ50;Q16836;Q9NX63;P35232;O60783;O43325;Q6PI48;O76031;O94763;Q9UHB7;Q5HYI7;O43823;Q9BU61;Q96TC7;Q9NZJ4;Q9NWS8;Q9H5Q4;Q7L0Y3;Q96C00;Q9BWD1;Q96DV4;Q9H0P0;Q13505;Q6IPR1;Q99303;O60930;Q8WVM0;P82663;Q9NVV4;Q8IWL3;P39748;Q9NX40;Q9H1K1;P82664;P53804;Q9UI32;Q96NA2;Q16775;P78549;P57721;Q13875;Q16526;P59942;Q9H9J2;P10515;O00167;Q63HK5;Q04837;Q9Y3B9;O00411;Q9ULD0;P58557;O95571;P82914;O60238;Q9P032;P02794;Q9GZY8;P19838;Q07021;Q9NVN8;Q06609;Q9Y399;Q9NTG7;Q5CZC0;Q96CM3;Q9UHN1;Q5T1C6;Q9H583;P00338;Q9Y237;P27695;Q13907;Q9P0J6;Q9HB07;Q86VP3;P30084;Q8TAE8;P09132;P63167;O15382;Q96EY1;Q8N5M1;Q969I3;Q8NFB4;P40926;Q9ULD2;Q6P161;Q96DB5;Q8N7H5;P49419;Q14739;Q6L8Q7;Q13794;Q99747;Q9NQE9;O43236;P17482;Q96CB9;Q9HCM9;P62906;Q8N490;P78316;O95865;Q8N3J5;Q16143;P19367;Q5SW24;P36543;P59047;Q6P1L8}

4761

Pathogen { P14079 } interacts with 785 human

partners: { P31751;P36543;P28838;Q8N6M3;Q6P4F2;Q9BQC6;Q5TGZ0;P56181;Q8IXM3;P22695;Q4VC31;Q96C00;Q7Z4L0;P52815;Q9H3L0;Q5RI15;Q9UDX5;Q86XF0;Q04837;Q9BYD6;Q96CW1;Q3ZCQ8;Q99623;P52758;P36542;O43674;O43615;O75324;Q92552;Q8N5M1;Q8N573;Q7Z7F7;O60260;Q9H061;Q8N159;O60397;P30042;Q9BQ95;P53804;O43677;Q8N4H5;O14773;Q6P587;Q9H0P0;Q96NA2;Q9NQ50;Q9Y3E5;P49753;P15502;Q9Y3B8;Q5HYI7;O43181;Q9NPG2;Q9P0P8;Q4U2R6;Q9BRQ6;O95169;P09132;Q96C01;P27469;Q99807;P21953;Q9BUK0;P13196;Q96GW9;Q9UIF7;Q7Z7K0;P55039;P56134;P55039;P56556;P07954;P17152;Q9Y3D7;Q9Y375;Q9Y4U1;Q86WG3;Q9BRT2;Q00610;Q5TYM5;P13073;Q9NYY8;Q9UI43;O75879;Q5T1J5;Q5EBM0;Q7L3T8;Q96AB3;Q9BW92;O43716;Q8N490;Q14442;Q9H0R6;Q9NWT8;Q9HC36;Q96FC7;P29728;Q96E11;Q16526;Q7L592;P53779;Q9H4K7;Q96JN2;O95139;Q9NZJ4;P25705;Q12887;P57721;Q9Y255;P54136;Q9Y305;P14621;Q9H2K0;Q96ER9;P12074;P00338;Q2VYF4;Q9H0U6;Q96SZ5;P62072;Q6MZQ0;P20132;Q6P161;Q330K2;Q15911;Q9NTK1;Q8TCD5;O75896;P09912;Q8N3Z3;Q15031;P23434;Q13505;Q5SW24;Q8TCC3;A6NDV4;Q86YH6;Q5T160;Q9HB07;Q9Y237;O15304;P82664;P31939;Q9NSK7;P36873;Q96CM3;P10109;P59103;O15446;Q15006;Q6UWS5;P56378;Q9NXW9;O60543;Q92558;P13498;Q49AM1;Q86Y79;Q9Y5Z4;Q13907;A8MXV4;P82933;Q14410;Q13323;Q6YFQ2;P02511;Q9BQ48;P15924;Q9NRR8;O76095;Q9UBZ4;Q9UQF2;Q9P0U1;P57772;Q9NZ45;P21399;P48728;Q49AN0;O43823;Q7L2E3;O00165;Q9Y2R9;Q8N3R3;Q96HJ9;Q9BYD2;Q8WYQ3;Q5ST30;Q9BYC9;Q8IWL3;Q8IVG9;P55771;P12036;Q13901;O96000;O95167;Q8WV74;Q6P444;Q9UII2;Q12906;Q9BRJ2;Q9NXG0;Q9NP81;Q96BW9;Q9H1K1;Q4G0N4;Q9H3J6;O75306;Q9BUK6;P00395;Q9Y2Y0;Q9Y2Z2;O95363;P00403;Q6P1X6;P49591;Q96I36;P21980;Q9BXX5;Q99497;P17568;P56385;P10606;Q9Y6G3;Q5BKU9;Q96B49;Q9NRX2;Q9Y291;A8K5M9;A4D1E9;Q6ZSR3;O75570;P09972;Q16891;Q9UDW1;Q5VTU8;Q15070;P22557;P32189;Q9HC16;P42704;Q8IZ13;Q9BUB7;Q6P1Q0;Q86U28;Q16540;O95153;Q16143;Q9HAP2;P14927;Q96PG8;Q8NHF3;O75208;Q8N6F7;Q8N6E;Q96EH3;Q9BUE6;Q9BSH4;P35232;Q9NVH6;P30084;O43708;Q9BRX8;Q7Z2W9;Q9C002;Q14739;Q9UHV9;Q5SZD4;Q9UPW5;P13804;Q86Y39;Q96C86;P46199;P10909;P56278;Q02221;Q9NS39;O95639;Q9Y3F4;O60437;Q9Y5J7;Q9Y4F9;P10746;P34897;Q53R41;Q9NQP4;Q99747;P41220;Q5TC12;Q8N0V3;P18615;O95182;O43715;Q32P41;Q32NB8;Q15526;P9P2R7;Q969I3;Q96E29;O15527;Q9Y371;P35998;P07919;P78549;Q9NZL9;Q8BWC4;Q14409;O75352;P14324;O75608;P33316;Q6IE81;Q9Y6H1;O95822;O14925;Q9NS69;Q16740;Q9NQZ5;Q14249;Q9Y2R5;P59942;P51610;Q9UL16;Q7L8L6;Q96JX3;Q9BXH1;Q6L8Q7;Q8N1F1;O94903;Q9HCM9;Q7Z4Y8;Q7LG56;P61604;O60783;Q9HA77;Q7Z434;Q14CZ7;Q9NJP3;O14949;Q9BVV7;P07195;Q9UHB7;P14854;Q15388;P45984;Q9Y3D3;P63104;Q9Y3B1;Q9NRF8;Q9P0M9;Q9BPW8;O43776;Q5JPH6;O94763;O75431;Q9H0E9;Q14061;Q8WY22;Q8N0X4;P43897;Q96RP9;O75648;Q8WTZ4;O75323;O43427;P45983;P20674;P50613;Q8IZY5;Q9H2U2;Q9H0N5;P40337;O95831;Q9UG56;Q13084;O95571;Q15054;Q8WV60;Q9NWS8;Q9BZE1;Q00059;Q9ULZ2;Q96BP2;Q96T21;P50542;O75880;O60239;P54803;Q8NCF0;P38117;P62244;O96011;P82921;Q13875;P35754;Q9UMS0;Q86WU2;Q9NNW7;Q14790;Q99689;Q9BZ23;Q9NX40;O94925;P03928;Q9H6T0;Q15046;P60900;P82650;Q00005;Q9BXF6;P09001;P22392;Q9Y2S7;Q96A35;Q9NVC7;Q86U90;P62263;Q16719;P36639;P36639;A6NFX7;Q9NX09;P31040;Q9BXR0;P56277;Q96IL0;Q8IVS8;Q9H2W6;Q86VP3;Q92934;O14548;Q86TS9;Q96EK5;Q9H583;Q13766;Q9NX00;Q86WV6;Q96GC5;Q9BSH5;A1L188;Q9NZI6;O43678;Q96S55;Q6IB77;Q9H8M1;O14832;P08238;Q9BYD3;Q9HD36;Q99933;P08107;P82912;Q5T1C6;Q2VPK5;P58557;P51970;O14734;Q96JZ2;O95178;O75251;O14561;Q9P2R6;P17029;Q9HBH1;P41250;Q9HC38;Q9UJZ1;Q9UI09;Q9UL12;Q86TX2;Q12981;Q96I59;Q9BV47;Q9Y697;P53370;P23665;P78316;Q9NVV4;Q9Y2Q9;P48200;P00156;Q8N5N7;Q9NR28;O95299;P26640;Q8WXH0;E9PQ53;Q9BYD1;P61586;Q8N945;Q6GPH4;O43325;Q93015;P09669;Q9BUL9;P56192;Q99417;Q13794;P22033;Q9P0J0;Q8IVP5;Q5JTJ3;Q9Y512;Q96PE7;Q9Y5U8;Q9HA92;Q9BYC8;P55789;Q86UY8;Q96MF6;O60936;P27695;Q12983;Q9NX18;Q9P0S9;Q9BQ52;O15235;Q9UMX3;P62906;Q9UI32;Q99766;P22830;Q9NWX6;Q96A26;P0DJ07;Q96DX5;Q9NPL8;Q969Z0;Q969S9;Q14154;P62258;Q9UGC7;Q9WWR8;Q9Y3A0;P02794;Q9HBK9;P10620;O43502;Q6DKK2;O43402;Q8N4Q1;Q9Y2Z4;Q6IN84;Q5SXM8;Q8TDB4;Q96KJ9;Q8TAE8;Q9Y3D2;O14862;Q9NP92;Q9Y606;Q9BYN8;Q13405;Q96DB5;P00480;O75964;O00411;Q9UI17;Q99595;Q9ULD2;O60296;Q9HAC7;Q16762;Q16775;Q96EL3;Q05195;O75489;Q9NX20;Q8N442;Q9H9J2;Q5

VUM1;Q9NRP2;A2AJT9;Q6NZI2;Q9P015;Q63ZY3;Q86UT6;Q9Y5R4;Q9H3K2;Q5CZC0;Q9H4B0;P10515;Q8N6F7;O75394;Q9BZF9;Q7Z7H8;Q7Z6M4;P0C7Q2;P60602;Q9Y5Z9;P38646;Q7Z4T9;Q96CB9;Q9BQP7;P03923;P10599;Q6RSH7;O60220;P63167;P82909;Q9UGM6;Q9H7H0;Q96GJ1;P82675;Q8TC76;O95563;P24310;Q9BT92;Q63HK5;Q96AN5;O00198;Q16718;Q9NZE8;Q96BK5;Q9P032;Q9BT30;Q9HD33;Q9H0B3;P03897;Q9NSE4;Q8NCN5;Q5BKY1;P56381;P15954;P82673;Q9H3H2;Q9BQ70;Q5XKP0;Q6IPR1;Q9NVA1;O14521;O43920;Q7KZF4;O15239;Q9GZY8;Q9Y3B7;P21695;Q5HCN2;Q5SRD1;Q96Q11;Q9Y2R0;P26678;Q9P0J6;Q9H5Q4;Q9NV92;P30153;P43686;O15091;P42575;Q9Y234;P54098;Q03393;Q8WV10;Q9Y3B9;Q9Y676;P17040;P82930;Q96DV4;Q15004;O76031;O00167;Q9BXW7;Q14197;Q9H3H1;Q96N28;Q5U4N7;Q5U5X0;Q86X67;Q9H6S1;O15382;Q96KC9;Q9BRG1;Q9GZY4;P36551;Q7Z2X4;P51398;O60930;Q9UHN1;Q8TF08;Q6PI48;P50440;P99999;Q8N983;Q96FX8;Q9NVS2;Q5T440;Q9UMY1;O60238;O43819;Q86XE5;Q7Z7A3;P24539;Q96TC7;Q9NTG7;Q06609;Q07021;Q9NYK5;Q96Q83;Q9H4A6;Q9NR77;O75616;O14879;Q9H902;O00483;Q969P6;P53701;Q9Y5J9;A6NK58;P83111;Q9UBY9;Q8N7H5;P04818;Q5HYK3;Q9UJ68;Q5T653;Q96C03;P14406;Q56VL3;P03901;Q08209;Q9H974;P82663;Q9H300;P03886;P78537;Q7L0Y3;P59047;Q05932;Q96I23;Q9NQR4;Q9Y5L4;P41970;Q96EL2;Q96EY1;Q6ZNI17;O95202;Q96DP5;Q9NQE9;Q6P1L8;Q8TCS8;Q86WW8;Q8TC71;Q9H6K4;Q8N1Q8;O43542;Q9P0K7;P49411;Q15390;Q9NVT9;Q9NRP4;Q8N183;P13051;O43236;O95865;Q9BU61;Q99551;Q13114;P55957;Q9UQN3;P13647;P39748;P49901;Q96LZ7;P34896;Q9BYG8;Q9ULD0;O95298;A0PJW6;Q7Z5L4;Q8WXG1;P40305;Q8WVM0;Q16836;Q9Y3D5;Q9BWH2;Q9HAV7;Q92843;Q96CM4;Q9Y3D9;P82914;Q8TAA5;Q9HD34;P21912;Q7Z4H3;Q6ICL3;P49406}

4762 Pathogen[ P03383] interacts with 433 human partners: {Q96BW9;O75323;P08107;Q96CW1;O14879;Q56VL3;P15924;Q9NVV4;Q9Y2Y0;P51398;P13073;P02794;Q9UHN1;Q9HBH1;Q9Y5J7;Q9BUK0;Q9Y2S7;Q330K2;Q9H3J6;Q9UHV9;Q9H974;Q06609;Q5TC12;A6NFY7;Q96EL2;Q9BYD1;Q9H2U2;Q9BYG8;O14862;Q96I23;Q96TC7;Q9NTK1;O94925;Q9BSH4;Q00610;P40926;P82930;O95865;Q9Y305;P53804;O60543;P16220;P82912;O00167;Q9BYD2;O75251;Q96A35;Q9NVN8;Q9H4B0;P27469;P56277;Q9NX63;Q13084;O75896;P82664;Q9NWS8;P40337;P53370;P62072;Q8TD19;Q9BRJ2;P60900;P36639;Q9BQ48;P55771;Q9H1K1;Q6NZI2;Q96EH3;P17029;P38646;P57772;Q7Z4T9;Q8TDB4;Q9BU61;P19367;Q93015;Q7L592;P41220;P00338;O15304;P00338;O15527;Q9NR15;Q86WG3;Q9P2R6;Q7Z7A3;Q13875;Q9P0J6;P12036;P31040;O43236;Q9NX20;Q5JPH6;P34896;O96000;Q8N1Q8;Q00005;P17482;Q9H2W6;Q5T160;Q9NRP2;P49406;Q8NOV3;Q86U90;O43678;Q15031;Q99689;Q9BZF9;Q15004;O14925;P82933;O43920;Q9BRQ6;P61604;O43615;Q16836;Q6ZNI17;P55957;Q5CZC0;Q9HAV7;P02511;O75489;Q9BQC6;Q9P2R7;P22392;Q00059;Q9NP81;Q9GZT8;Q9UMY1;Q9UMX3;Q9NWT8;Q9BQ95;P09972;Q9NWU5;O95831;Q96BK5;P48200;Q5U5X0;Q96A26;Q9BYC9;P28838;O60936;O43402;Q9NX18;P09001;O00165;Q9H5Q4;Q8TCS8;P30153;Q9Y2Z2;Q9BYD3;Q5T653;Q9P0M9;Q9Y2R9;P10599;P67775;Q96T21;Q9UI43;Q9UQF2;Q9NRP2;P82914;Q13405;O14734;O60220;Q96DX5;Q96S55;Q9BZE1;Q7L0Y3;Q9NQ4;P09132;Q9Y2665;P78537;Q9NRX2;Q5TYM5;Q12983;Q32P41;Q6RSH7;O75306;Q92558;Q9Y3E5;Q9Y697;O95178;Q96G58;Q75394;Q96DB5;Q96B49;Q9BQ52;Q96920;P36873;Q9BYN8;Q9NVS2;Q9ULD0;Q9H0E9;P82675;P52758;Q16719;Q15006;Q92552;O75570;Q9BYD6;Q16822;Q9HD34;P51610;Q6P1L8;Q9Y3D9;O60296;Q9UII2;Q9Y606;O94763;Q5U4N7;O60783;Q9BQ70;Q96PG8;Q96AB3;Q9Y2Q9;O60238;Q9H583;Q99747;Q9NTG7;Q9Y2R5;P50613;O60260;Q99551;Q9H6T0;Q8NF64;P63104;P54098;P07195;Q8WWC4;Q9Y5J6;P61586;Q9Y3B7;Q8N159;Q9Y6H1;O15287;Q5JTTJ3;P17040;Q96I59;Q05195;P82909;P82663;Q6P1X6;Q15388;Q9BXF6;Q7KZF4;Q9ULZ2;O43715;Q9UPV9;P49901;Q86VP3;Q15046;Q8N6F7;Q96E29;Q9Y3B9;Q9HD33;Q9NZE8;A2AJT9;Q99417;Q5HYI7;Q6DKK2;Q9H2K0;P78316;Q9P015;P57721;Q9HCM9;Q96BP2;P62244;Q9Y2Z4;O95363;P14324;Q9BT92;Q9Y6E7;Q9NX40;Q9UGC7;P99999;Q9Y3F4;Q9Y3D5;P22033;Q9NR77;Q9UMS0;P26678;Q9HB07;Q9BRG1;Q96GW9;Q86TS9;Q9Y375;P82921;Q9HCN2;A8K5M9;Q9BXR0;Q8WVM0;Q15054;Q8IWL3;Q8IXM3;P35232;Q9H4A6;Q9BZ23;Q16775;Q9HA77;Q9P0U1;Q9BSH5;Q8TAA5;P43897;Q9NQR4;E9PQ53;Q9BQ69;Q12906;Q99933;Q9UHB7;P82932;P17152;Q8WYQ3;Q9NZI6;P62906;Q9H7H0;P52815;Q96C86;Q96EK5;Q7Z6M4;Q9H3L0;Q86Y79;P10515;Q5T1J5;Q96DP5;P58557;Q9H0N5;Q8WU03;Q8TC71;Q7Z7F7;O75208;P41970;O95153;P13647;Q9H9J2;Q63ZY3;Q96E11;P32189;P82650;Q07021;O43776;Q8WWR8;Q9NQ50;O60930;P45984;P42704;O43325;Q6PI48;O00198;O76031;Q8TCC3;Q9UBY9;P33316;Q6ZSR3;O43542;O00411;P21980;Q9HAP2;P27695;Q96Q83;Q96C03;A1L188;Q8TAE8;Q13794;P41250;P36543;Q8N5M1;O76095;Q6IE81;Q9BXH1;Q9Y676;P62263;Q9BUL9;Q9P0J0;Q4U2R6;P13051;Q2VPK5;P59942;P54136;Q8N490;Q04837;O15235;Q5EBM0;Q9Y291;O60437;O95571;Q9P032;P63167;Q9GZY8;P19838;Q9Y5J9;P49591;Q49AM1;Q9Y399;O15446;Q96CM3;Q9NR28;P62258;Q5T1C6;P56181;Q7L3T8;P08238;P24539;Q13114;Q96GC5;Q14154;Q8N5N7;Q8N983;Q96EY1;Q969I3;Q9Y3D3;P18615;Q8IVG9;Q9BPW8;P15502;Q8N7H5;P49419;Q13901;Q96QE5;Q9UQN3;Q96NA2;Q99623;Q9BYC8;Q53G26;Q8N1F1;A4D1E9;Q9H0U6;Q6P444;Q9Y6D9;Q5SZD4;Q9BW92;Q13505;Q16526}

4763 Pathogen[ P03410] interacts with 812 human partners: {Q32P41;Q8N4H5;Q00610;Q9Y305;P54803;Q9H4K7;Q99933;O75648;Q7L592;Q96LZ7;Q9Y2Q9;Q9Y2W6;O95168;Q8IVS8;P62258;O43674;Q5SRD1;Q96DP5;Q96T21;Q96TC7;Q9NVN8;Q9BUK0;Q9P2R7;P59942;Q9HD34;Q9NVT9;O95563;Q96EK5;Q96Q11;P78537;Q9Y5L4;Q6NZI2;Q9Y2S7;Q9HB07;Q9Y399;Q7Z7F7;Q9Y512;P19838;P30084;Q96CW1;Q5TC12;P51610;Q9HA77;Q16822;O94763;P56556;P82663;Q96KJ9;Q9HD33;Q9P0P8;P02794;Q02221;Q9NTG7;Q9UL16;P10599;Q96KC9;O75127;Q9BUB7;P49901;P15924;O95639;Q9Y2R0;Q99832;P82909;Q4GON4;Q96AB3;Q7L8L6;P17568;O43402;A1L188;Q9HBK9;Q8N1F1;Q9Y3B8;Q5SXM8;Q8TCS8;P62072;Q9NSE4;P78316;P56192;Q96B49;Q14739;Q6L8Q7;Q9P015;Q14061;Q8TF08;P13804;Q8N3J5;Q9HCM9;P17482;Q9P0M9;P12036;Q9Y3B1;P17040;Q99497;Q9H974;Q99766;P18615;P35754;Q53G26;Q53R41;P62244;Q93015;Q9H7H0;Q12983;Q15388;Q9Y3A0;Q9NYY8;Q8TC76;Q9ULD0;Q9HC36;Q9H902;Q9UPW5;Q9GZY8;Q8WYQ3;Q5BKU9;Q96DB5;Q8TCC3;Q16540;P38646;O95178;Q49AM1;Q86VP3;A6NFY7;P36542;P29728;Q9NVH6;Q9H6K4;Q9P2R6;Q08209;Q9NX20;O75879;Q6TCL3;O75380;Q9UI17;Q96ER9;Q8N159;O43678;P08238;Q9NRF8;Q56VL3;Q5T440;Q15390;Q5ST30;P36639;Q9Y2Z2;Q5CZC0;P25705;Q9NXW9;P56378;Q9HBH1;P82675;Q04837;O75251;Q8WV60;Q9NR28;Q9NR2;O14548;Q96PE7;Q9BXH1;P15954;P60900;O43427;Q13011;Q8WY22;O95299;P41220;Q9BW92;Q8N983;Q5U5X0;O15235;Q9Y5J7;Q9ULZ2;Q96IL0;O00198;Q567V2;P42575;P51970;P35998;O43920;Q9UI09;Q86U90;Q9Y255;O43542;Q13505;Q9NSK7;Q9BXW7;P54136;Q96A35;Q96DX5;Q8N6F7;P05141;O96000;Q9B2K0;Q9HBL7;O00165;Q6IB77;Q7Z4T9;Q96CB9;Q96RP9;Q86WW8;Q16719;Q14410;Q9NZC7;Q9BP444;Q9BWH2;P61604;O14862;Q6P1Q0;Q86Y79;P49406;Q92558;P46199;Q92665;O75324;Q00059;Q96Y26;Q8TAA5;P12694;Q9NRP3;Q5BKY1;Q86WG3;P07919;Q9BQ52;O96011;O43325;Q9H4B0;Q07021;Q9NX00;P57721;Q7L3T8;O43776;Q8IZ13;Q9H3L0;Q9NQ66;Q9GZY4;Q16143;P82650;Q9NPL8;P20674;P09912;P62906;O95

865;Q9P0J6;Q9HD36;Q92843;P52815;Q9Y5Z9;Q9NP92;P59047;Q92934;Q969S9;P63167;P20132;O95167;Q9NS69;Q9NWU5;Q6NVY1;Q9H6S1;P56385;Q9HC38;Q96S55;Q7Z7A3;Q6ZSR3;A6NDV4;Q96AN5;Q5SZD4;O60239;Q6IPR1;Q15004;P21953;Q13794;Q96Q83;Q96DV4;P39748;Q9Y3F4;Q969I3;Q6DKK2;Q6P4F2;Q9NU23;Q9H3H1;Q9Y697;Q9BQC6;Q53H82;O60260;Q9NYK5;O15239;Q9BYN8;Q8IVG9;Q6YFQ2;Q14442;Q9H2U2;P30042;Q8WWC4;Q86X76;O00411;Q9BYD6;Q5JTTJ3;Q9Y6M9;Q9H4A6;Q9NV92;P38117;Q9NVV4;P23786;P78549;O60397;Q9Y3D5;Q9H9J2;Q9UBX3;Q8NC60;P07195;P50613;Q96BW9;Q9BYD3;Q96EH3;P28838;P56278;P36551;O94925;Q9H1K1;A6NKS8;Q8WXG1;Q7Z434;Q6IPM2;Q8N490;Q9N3R3;Q8N6M3;P55957;Q9BRT2;P42765;P13073;Q96EY7;O60930;O60783;Q7Z7K0;P82664;Q96E11;Q8N442;Q9NRP4;Q96QE5;Q15006;Q9UJ72;Q8N7H5;O14925;P49591;O43708;Q96CM3;Q96FC7;Q99595;P56381;Q9UII2;P10746;Q6GPH4;P33316;Q9UHB7;Q9HC16;O60333;P00480;P22695;Q9BUK6;Q9Y676;Q8NE86;Q9BYD1;O43715;P17029;P22557;O75600;O95571;O76031;Q9UBZ4;Q86UT6;O14734;O00154;Q9NQR4;O60936;Q9NRD5;Q9UJ68;Q92552;Q9BT92;Q9H8M1;Q9Y234;P09972;Q9UQN3;Q9Y3D2;P03886;Q4U2R6;O00483;Q99623;Q9NZJ4;P15502;O95298;P21399;Q96FX8;P0DJ07;Q9BU61;O43236;Q5VTU8;Q96EL3;O75438;Q7Z2X4;Q9NRX2;Q9UDW1;Q3ZCQ8;O43502;P09132;Q9BYC8;E9PQ53;O75323;Q9UPV9;Q96CM4;Q8N5N7;Q5T1C6;P56181;P53370;O15287;P61586;Q96C00;P08107;Q96JN2;O75608;Q9BSH5;Q86UY8;P04818;Q9BUL9;P27469;P00156;Q96I59;Q96I23;Q6IN84;Q5SW24;O15527;Q9UMX3;Q16762;Q96JX3;P07954;O14561;Q9ULD2;Q96I36;Q86XF0;P14927;P60602;P00338;A0PJW6;Q16775;Q9UMS0;Q9BRJ2;Q9HA92;P02511;O15382;P22830;Q9UL12;P53701;P23434;P48728;Q8IWL3;Q9NWT8;P30566;Q96A26;Q5VUM1;Q9UGC7;O43615;Q9BYC2;Q96HJ9;P42704;P31040;Q13084;Q5HYI7;P26678;P03928;Q9BXF6;P41250;Q14197;Q6P1L8;Q8N0X4;Q9Y291;Q9HCN2;Q9Y3D7;P49419;Q9Y3B9;P58509;Q7L2E3;O75489;P24539;Q9Y371;Q2VPK5;Q15054;Q96N28;Q9Y6H1;Q9NTK1;Q86Y39;Q16526;Q8TC71;Q9Y2R9;P16220;O95831;A8MXV4;Q5EBM0;P36873;Q5TYM5;Q2VYF4;Q9H0R6;Q15046;Q9H5Q4;Q9Y6G3;Q9BRG1;P31939;Q9BQ48;Q9NQ50;Q8IXM3;Q6P1X6;Q86XE5;Q49AN0;A2AJT9;P21912;P55771;O14832;Q96GJ1;P82673;Q9Y375;Q5T653;P82912;Q8N945;Q9UJZ1;O60296;Q9Y5U8;O75964;Q9BZ23;P99999;Q9NX63;Q14409;Q8NFU3;Q8N1Q8;Q9H3J6;Q9NQZ5;P09669;Q5JPH6;Q16836;P63104;Q8TCD5;Q9Y5J6;Q9NQP4;Q13875;Q9BQ69;Q96EL2;Q9HAP2;Q7Z4H3;Q6RSH7;Q9NZE8;Q99643;Q9Y3E5;Q7Z3D6;Q9Y606;Q9BT30;Q86TX2;P57772;Q9UMY1;Q13901;Q9BYG8;P03897;O43677;P40926;Q9NRI5;O15091;Q9Y5J9;Q9BQ95;Q8WVM0;A4D1E9;P45984;P50542;Q96C01;P30153;Q9BZF9;Q8NKN5;Q9H6T0;O95169;Q9UI43;Q5XKP0;Q00005;Q330K2;Q9BPW8;Q9NPG2;Q9UGM6;Q9NQE9;Q9P0S9;Q9Y3D9;P53779;P27695;Q7Z2W9;Q9Y2Z4;Q9H0P0;O00167;Q9Y5Z4;Q86TS9;O43181;P26640;Q9BYC9;O14521;Q9BQP7;Q96BP2;Q96GW9;Q16718;Q14CZ7;Q9UHV9;P41970;Q9UBY7;Q9NZI6;P62263;P24310;Q7KZF4;Q86WV6;O75306;Q9P0U1;Q13907;A8K5M9;O60220;O60543;Q8WV74;P00403;O15446;Q9H2W6;P10109;Q96JZ2;Q9H0N5;Q86U28;P21980;Q9BRQ6;P52758;O43676;O14949;Q99417;P83111;Q9UI32;P56277;O75352;P13051;Q9HAV7;P49753;P48200;P14854;O76095;Q9H3K2;Q96BK5;P17152;Q6ZNI7;Q99807;Q15070;Q8WU03;Q9NVA1;Q63HK5;Q9NX18;Q8N5M1;P32189;Q9BQ70;P09001;P03901;Q9UQF2;Q96C03;Q9P0J0;P82933;Q9NP81;P03923;O95153;Q9NXG0;Q9P032;Q9NX40;Q8N183;Q16891;O14879;Q9H583;Q8TDB4;Q12981;Q96MF6;Q96NA2;P35232;Q96CX6;Q96PG8;P53804;Q6P161;P55789;P13647;Q16740;Q96E29;O95202;Q63ZY3;Q9Y2Y0;P82914;O75570;Q8N0V3;Q7Z7H8;P67775;Q14154;P82921;Q9NVS2;O43823;Q8IZY5;Q8IVP5;P82930;Q12887;Q4VC31;P40305;Q9H0E9;Q6UWS5;Q5U4N7;Q9Y237;Q05932;Q9BSH4;Q9UHN1;Q9BRX8;P50440;Q96IX5;Q9NR77;P0C7Q2;Q9NWS8;Q9Y2R5;Q03393;Q86YH6;P54098;Q9NWX6;Q8WV59;P14621;Q969Z0;Q9NZ45;Q9NX09;P13196;Q8WXH0;Q86X67;O75880;O95333;Q99551;Q9UBY9;P10515;Q6PI48;Q9UG56;P58557;Q9BV47;Q5T160;Q5T1J5;Q12906;Q5HYK3;Q96HS1;Q8NF64;Q9NRR8;O94903;O75896;Q8N4Q1;P18859;Q9C002;Q9Y5R4;Q96EY1;Q9NZL9;Q99747;P59103;O60437;P30405;Q8N573;Q6IE81;Q7LG56;Q06830;P34897;P36543;Q96SZ5;Q6P587;P34896;O60238;O95822;Q8N3Z3;P56134;O75208;Q13405;O95994;Q8WWR8;Q9UIF7;P49411;Q13114;Q9P0K7;P40337;P14324;Q9Y4U1;P22033;O75390;P10606;Q9BZL1;Q05195;Q06609;O43819;Q7Z4Y8;P43897;Q13323;P10909;Q8WVI0;O75394;P12074;P21695;Q9H0U6;Q8WTZ4;P51398;O95182;Q7Z6M4;O75431;Q9BUE6;Q6MZQ0;Q9Y3D3;O15304;Q99689;Q96GC5;Q7L0Y3;O75616;Q16635;Q9NNW7;P14406;Q9Y3B7;Q86WU2}

Pathogen[ P14075] interacts with 499 human partners: {Q9Y2Z4;O43674;Q8N490;Q9H974;P42704;Q00059;P13051;Q86WW8;P53804;P17029;Q9NVH6;Q9P0U1;P54136;P78537;Q99933;Q9H8H1;O14925;Q9NVA1;Q9H7H0;P09132;Q9NQE9;Q56VL3;Q9UGC7;Q13505;P52815;Q9BRJ2;Q5HYK3;A6NFY7;Q9HAV7;Q7L592;O43402;O60239;Q96EL2;Q5SZD4;Q86WG3;Q9BYD1;Q9H5Q4;Q9BYD6;Q12983;Q9H583;P56181;Q9NRX2;Q16719;Q9BYD2;P54098;Q00005;Q9GZT8;Q9Y375;Q9Y5J9;P82921;Q9NQR4;Q9UBY9;Q9P0M9;Q9NYK5;P55957;Q9HAP2;Q9Y3F4;Q96B49;Q6P1X6;Q96FX8;P58557;P82912;Q63ZY3;P17482;Q96EH3;Q14442;Q9BUK0;Q9Y2S7;Q969Z0;Q9NX63;Q9UMS0;Q8N0V3;Q9Y3D9;P41250;Q15006;Q9Y6D9;O75323;Q96GC5;Q9Y2Q9;P62072;Q07021;Q9H3H1;P18615;Q96A26;O96000;Q96CW1;Q9UMX3;O75648;P57772;O95182;Q93015;Q96BW9;O43236;O43677;Q96Q83;O76095;P60900;Q7L0Y3;Q86XE5;P34896;Q9HD34;P27695;O43427;P62244;P49406;Q9BQC6;Q96PG8;Q9Y2R5;Q9NX20;Q96E11;Q6IN84;Q8IVS8;Q96C03;Q13901;Q15388;P32189;A4D1E9;Q9NVV4;Q9P2R6;Q8WWR8;Q9UL16;P50613;P61604;Q9NX18;Q16822;O75394;P36639;Q8TAA5;P51610;Q9Y2Y0;Q5JTTJ3;O15527;Q9NVN8;Q9Y606;Q99747;O60930;Q9BXR0;A8K5M9;Q9NRP2;Q9Y3D3;Q8N159;Q96TC7;Q96T21;Q9EH33;P41220;Q6RSH7;O14734;P82650;P13073;Q15070;P19367;Q9UIF7;Q9Y2Z2;Q96NA2;O95363;Q5T653;Q5T440;Q6P1L8;O60296;Q8N1Q8;P40926;Q8IVG9;Q12906;Q9H2W6;Q86U90;Q8NKN5;Q8N5N7;Q6P444;Q53G26;A8MXV4;Q8N5M1;O00167;A2AJT9;Q9H9J2;Q9GZY8;Q5T1C6;Q9Y3D5;Q9NWS8;P31040;O94903;Q5TYM5;Q8WWC4;Q9UMY1;P08238;O15304;Q9BYC9;O43920;Q9BT92;Q9Y6H1;Q9Y3E5;Q9BQ48;Q96CB9;O75306;P38646;Q05195;O94763;Q96GW9;O95571;P07195;Q9BZE1;Q13084;O14561;Q8WU03;P78316;Q9NRI5;Q9HA77;Q86Y79;P36873;Q9UI43;Q9NP81;Q9UHV9;Q9UPV9;O76031;Q9Y255;P17040;P82909;Q9Y3B7;Q32P41;Q9HCN2;P51398;Q5HYI7;Q15390;A1L188;Q9HCM9;O95298;Q9Y2R9;Q9BSH5;Q13875;Q13405;Q9Y676;Q8N1F1;Q96DX5;O43678;Q96BK5;P35232;Q8N7H5;P17152;Q9Y6E7;Q9NR28;Q9UII2;Q6NZI2;Q9BYO7;Q86VP3;P12036;Q9NWU5;Q6IE81;P56378;Q9H2K0;P57721;Q96I23;O15235;Q96KC9;P49419;Q96MF6;P43897;Q9Y399;Q9H6K4;Q9BU61;P60602;Q9Y512;P14406;Q8N983;Q7L3T8;O00411;P99999;Q8TCC3;O95865;Q9UHB7;Q9BSH4;P22033;O75208;Q2VPK5;P56192;P26678;Q96BP2;O60783;Q9H0N5;Q9NTG7;Q9HB07;Q96A35;O14862;Q6ZNI7;P82664;Q99623;Q96AB3;Q92665;O95831;Q9NWT8;Q9BQ52;Q9UQN3;P55771;Q96E29;Q9NZE8;Q49AM1;O60543;Q9BYG8;Q330K2;Q9BW92;O75251;Q9BXH1;O43776;O60238;Q7Z7A3;Q14154;Q16836;Q9P015;Q8WYQ3;P02794;Q9Y3B9;P14324;Q86TS9;Q9NQ50;P82663;O60220;Q9Y291;Q15054;P82930;Q9NQP4;Q9NR77;P63104;Q99417;Q13114;Q99551;P82914;Q5T160;Q96DB5;P15502;P61586;Q9NU23;P10515;Q9BQ95;P48728;Q13794;P33316;O43542;P02511;P82932;Q9BZ23;Q5TC

4764



12;Q99766;O15287;P55789;P24539;Q9NNTK1;Q9NX40;P67775;Q9H2U2;P30153;E9PQ53;P53370;Q9C002;Q9BQ69;Q9H3J6;Q8WVI0;Q9ULD0;Q9NZI6;O14879;O75896;Q8TC71;Q9BRQ6;Q8TDB4;P0DJ07;Q5U4N7;O94925;Q8TCS8;Q9UHN1;P00338;Q9ULZ2;Q5T1J5;Q9H0U6;Q9NV92;Q9BXF6;Q7Z4T9;Q8IXM3;P09972;P08107;O14832;Q8N6M3;Q9BYN8;P13647;Q16526;P38117;Q5U5X0;Q96C86;Q5CZC0;Q9BRG1;Q969I3;O43715;O43325;Q6PI48;Q9Y5J7;Q9BZF9;Q9UG56;P19838;P09001;P27469;Q9BYD3;Q6ZSR3;P16220;Q92558;P40305;Q6IE59;Q7KZF4;P56385;P56277;P52758;P41970;Q7Z7H8;Q8WVM0;P48200;Q4U2R6;P21980;Q5XKP0;Q9NP92;O60437;Q9H4B0;Q96S55;Q9BYC8;Q5JPH6;O60936;P82933;P49103;O75489;O95153;P62906;Q9BUB7;O43823;Q15046;Q8IZY5;Q7Z7F7;Q9BUL9;P59942;P40337;Q14061;Q04837;Q5EBM0;O60260;O15446;P28838;Q9NXW9;Q9P032;O95178;Q92552;P49901;Q9NSE4;Q9NRR8;Q9H4A6;Q96CM3;O00165;Q15031;P50440;Q9P0J0;Q9Y5J6;Q9UQF2;P63167;Q96QE5;Q8IWL3;P49591;Q8WY22;Q15004;Q9P0J6;Q9BPW8;O75570;Q8TAE8;Q9NS69;Q9Y305;P62263;P22392;Q96EY1;Q00610;Q96DP5;Q8NF67;Q8NF64;P82675;Q06609;O43615;O00198;Q16775;Q6DKK2;Q9H1K1;O43676;Q8TC76;Q9H3L0;Q9Y6G3;Q6MZQ0;Q7Z6M4;Q9NVS2;Q9P2R7;P62258;Q96EK5;Q9Y697;P15924;P10599;Q99689;Q9H6T0;P36543;P45984;Q8TD19;Q9Y5U8}

4765

Pathogen{ P0C206} interacts with 688 human

partners: [P27695;Q9Y234;O95363;P33316;O43542;Q96TC7;Q8N5N7;Q9H1K1;Q9BRG1;Q8TAE8;Q6P1L8;O43502;Q13875;P09132;Q9UJZ1;Q8N0V3;P99999;Q9BUL9;Q6P161;Q9NSE4;P07195;Q96A35;P56181;Q8N5M1;Q9Y291;Q9NPJ3;Q96KC9;Q6ICL3;Q9Y5L4;Q9Y3D5;P10746;Q96Q83;Q9Y3F4;Q9Y399;Q05195;Q9NQE9;Q49AM1;Q96DB5;Q7Z7K0;Q9Y5J6;Q7Z2X4;P82930;Q9H4A6;P53701;Q5XKP0;Q96PG8;Q96PE7;P36543;Q9UHN1;O00167;Q9UI43;P40305;Q7Z6M4;Q14739;Q8IXM3;Q96EL3;Q7Z2W9;P55789;P78537;Q9HA92;Q9H0U6;Q9H0U6;Q8WV60;Q9Y2Z4;Q9NS18;P36639;Q9NVN8;A8MXV4;Q5U5X0;Q96CB9;Q9P032;Q96DX5;Q9BV47;Q53H82;P50213;O75251;Q96EL2;Q15911;Q5U4N7;Q99766;P56278;Q8TCS8;Q9UMY1;Q13114;Q9BQ48;Q96C86;Q8TC71;Q9NZL9;Q9UDW1;Q9BRT2;Q9HD34;Q9NR28;Q9Y5U8;Q9Y3D3;Q9BT92;Q9P015;O43920;Q9BXF6;P16220;P30153;Q9HD36;Q9Y6D9;O15527;O14862;O43427;Q9H4B0;P22392;O60783;Q96I23;Q9ULD0;Q9BU61;Q96B49;P82914;Q9UGC7;P02794;Q330K2;Q07021;Q13084;Q96FX8;Q5T1J5;P15502;O43402;Q6PI48;Q4U2R6;O14521;Q9NRR8;Q9NV92;P62244;Q99933;O75306;P12074;P45984;Q32P41;Q96GJ1;Q9BYC8;Q96MF6;P49901;O95202;Q5ST30;P14317;O15382;O75608;P14406;Q16836;P63167;P36542;Q9UMX3;Q8NE86;Q9BQP7;Q92665;Q53G26;Q7Z7H8;Q9UHB7;Q9NX40;P21980;Q99623;Q9Y6H1;Q9Y697;A6NFY7;Q9Y676;Q6P1Q0;Q9HAV7;P09001;Q9BUK6;Q9UQN3;Q9P0M9;O14832;O95182;P28838;Q7Z4H3;Q5EBM0;Q14442;O14879;Q9Y2Z2;Q9NXW9;Q9NS39;P59942;Q9UGM6;Q8N1Q8;O60220;Q96BP2;Q9NVH6;P62777;Q96JN2;P36551;P62263;Q5JPH6;Q9NP81;Q9NZJ4;Q9BUB7;P29728;Q96CM4;Q16822;Q7KZF4;P54098;Q00610;Q86U28;Q5BKU9;P60900;Q96C00;Q8IZY5;Q9Y5Z9;P21953;P53804;Q9Y5J9;Q9HA77;Q9P0J6;P38117;Q9P2R7;Q9NWU5;Q5T653;P34897;Q7LG56;Q9UBX3;P35754;Q9UBZ4;Q9Y4U1;Q86TX2;Q6P1X6;P82673;P41970;Q5HYI7;Q9NRR2;Q86WV6;Q16891;Q9HB07;Q96QE5;O75896;Q96BK5;Q9BXH1;P55771;Q5JTJ3;P31939;Q9BZ23;P41250;P49406;Q8TD19;Q9UI09;Q96A26;P14621;Q99497;P67775;Q9H3J6;Q9UQF2;Q8IZ13;Q6P444;Q9BYN8;P19367;P50542;P78316;Q8WVM0;Q9Y6G3;Q969I3;Q5CZC0;P32189;P26640;Q8WVC4;A1L188;Q9UPV9;P38646;Q9BQ69;Q9Y512;Q96E29;P83111;Q99551;Q7Z3D6;O43236;O95153;Q8N4Q1;Q9NNW7;Q9Y5J7;P49591;Q9NZE8;P23786;Q8N6F7;Q5SRD1;Q9H6K4;P48200;Q9P2R6;Q95865;P57721;Q9NR77;O95298;P30042;P51398;Q9HD33;A6NDV4;P61586;Q9UHV9;P22695;O43776;Q8N159;Q9H583;O15091;Q63HK5;O14561;Q9BRJ2;Q92934;Q16775;Q56VL3;Q5SW24;Q99C002;Q6ZN17;P17029;Q9H3K2;Q99689;Q9NQZ5;Q9NPG2;O60437;O60930;Q6MZQ0;O60238;O43615;O43715;O75394;P63104;Q3ZCQ8;P82664;P20132;Q6DKK2;P43897;P12036;Q9HBK9;Q12983;O43248;Q96GC5;Q9NX63;Q9NVS2;Q8N6M3;Q96EH3;Q93015;O60936;Q5BKY1;Q6P587;P14324;P30084;P19838;Q16526;Q15054;Q92843;O00483;Q96JZ2;Q8WV59;Q2VPK5;Q15070;P08238;Q13907;Q7Z4T9;P13647;O15287;Q8N7H5;Q9NVAl;Q16719;Q8NF64;P50613;Q9BYC9;O00165;Q9H4I8;Q8WYQ3;Q9Y3D7;Q6RSH7;P17568;P59047;Q7L0Y3;P62258;Q86XE5;Q8N490;Q9Y2R9;Q9Y255;O95831;Q9NS69;Q13405;P82909;P35232;O43708;Q9Y305;P17482;P18615;P51610;Q9HAP2;Q9H974;Q9Y3B7;P53370;O95178;P34896;P22557;O60239;Q86TS9;Q96EK5;Q6NZI2;P50440;Q9H2K0;Q9BYD6;Q86VP3;Q8IVG9;Q9Y3B8;O60260;Q9BYD2;Q9UG56;Q9Y3D2;Q8TCD5;Q9NQR4;Q16740;Q96CW1;Q6ZSR3;O00198;Q9Y3B9;Q9UJ68;Q8TCC3;Q5SXM8;Q969Z0;O60296;Q99807;Q9H0P0;Q9NRI5;O14734;Q5TYM5;Q9NWT8;P13073;P58557;Q9P0U1;P57772;Q5T1C6;Q5T160;O15446;Q14790;Q92558;Q9BW92;Q6IB77;Q15006;P40926;Q9ULD2;P10909;P22830;Q16143;O14925;P49916;Q13901;O94903;Q96S55;P31040;P08107;P24539;P82933;Q9UL16;Q9H2U2;Q9HCN2;P17152;Q8TAA5;Q9BWD1;Q92552;Q9Y3D9;Q9Y3A0;P42574;Q13505;P82663;P82675;Q8TC76;Q9Y375;Q9NVV4;Q15388;Q6IN84;Q8WU03;Q96AB3;P56192;Q8N3R3;Q9NP92;P23434;P04818;Q6L8Q7;Q9P0J0;Q9UI32;Q9BSH5;Q9H2W6;Q9H3H1;A4D1E9;Q99747;Q9Y606;Q5T440;Q96E11;O96011;P62017;P15924;Q12981;Q63ZY3;Q9H6T0;O43678;Q96N28;Q9HC38;Q6IE81;Q9Y237;Q9BZEL;Q9NZI6;P54136;Q8WWR8;O43823;O95639;O94925;O75489;P82650;P09972;Q9H5Q4;Q14154;Q8WXH0;Q9HCM9;Q9NXG0;Q9NU23;O75390;Q9Y2Q9;Q04837;Q9NZC7;Q9BYG8;Q86Y79;Q99417;Q86U90;P56381;Q03393;Q9BYD1;O75208;Q9ULZ2;Q9NQ50;Q06609;P17040;P42704;P27469;Q9BXR0;Q8N573;P42575;Q9Y3E5;Q9BKK5;Q96NA2;P49419;Q9HC16;Q08209;Q8N1F1;Q15031;Q14197;O43325;P26678;Q9H9J2;Q9GZY8;Q8N983;P62906;Q86X67;Q9NX18;Q9H7H0;Q9BUK0;Q8IWL3;Q96C01;P82932;Q9H0N5;P59103;Q9NYK5;Q9UPW5;Q99798;E9PQ53;Q9Y2R5;Q16762;P13196;Q9Y3B1;Q9Y2Y0;O60543;Q8WY22;Q7L3T8;P02511;P10599;P39748;Q9BSH4;P41220;O75570;Q15390;Q9HBH1;O76031;Q9NTG7;Q9BZF9;Q49AN0;Q96ER9;Q9UJ72;Q9NPL8;A6NK58;P30405;P07954;P21912;Q00059;Q06830;Q86WG3;P36873;Q9BRQ6;Q5S2D4;Q9NRP2;Q8WXG1;Q5TC12;P52758;P13051;P22033;Q9UMS0;Q9H8M1;Q96EY1;Q6GPH4;Q8NBN5;A8K5M9;Q9NX20;Q00005;P00338;Q9BQ52;Q8IVS8;Q9NRD5;Q8N3J5;Q15004;P10515;Q14061;O96000;Q9BQ95;Q14249;Q8N4H5;O15304;Q96DP5;Q86UY8;Q8N945;O43674;P56385;Q96ILO;Q9NYY8;P48728;Q7L2E3;A2AJT9;Q7Z7F7;O95571;Q96CM3;Q86WW8;O15235;Q9BQC6;P60602;Q12906;Q9H6S1;Q9H902;Q9BRX8;Q9UII2;P00480;Q9UIF7;Q9NQF4;Q5HYK3;Q9H0E9;Q9H3L0;P56556;Q9NNTK1;Q9Y6E7;Q02221;Q96C03;Q96DV4;Q9BQ70;Q9H0B3;P82912;P21399;Q7L592;O75323;Q96GW9;P55957;P14618;O94763;Q9Y2S7;Q9NSK7;Q86X76;P61604;Q7Z7A3;Q96T21;O76095;P40337;Q13794;Q96LZ7;Q96I59;Q9BUE6;Q9UBY9;Q6IPR1;Q05932;P52815;Q9BYD3;Q8NFU3;Q15046;Q96BW9;O00411;Q8WTZ4;P82921;Q9BPW8;Q8TDB4;Q7L8L6;P78549}

4766

Pathogen{ P03363} interacts with 400 human

partners: [Q8NF67;Q6IE81;Q32P41;Q9UBY9;Q15911;Q9Y6E7;O14734;Q9Y2Z4;P82650;A8K5M9;Q9NPJ3;Q16836;P43897;P52758;O00411;Q9Y2R5;Q6ZN17;Q8NFU3;Q9BYD2;P09132;Q9NWT8;Q9NVN8;Q9BRT2;Q9H2U2;P62258;P55957;Q9Y3F4;Q9NVV4;O60543;Q9UL16;Q9H7H0;Q96DB5;P49419;O15287;Q9H902;



Q99623;Q96GC5;Q9UPV9;P31040;O15527;P55771;Q9Y6D9;P63167;Q86Y79;O75570;P82664;Q9BQ95;Q96EL2;Q9BXR0;P36873;Q96C01;Q8N0V3;P33316;Q9UHB7;Q9NZE8;Q9UMS0;Q9NZJ4;Q9NXG0;Q9BYD1;P36543;P82921;Q96FC7;Q330K2;P49406;Q9Y375;Q8N5M1;P99999;Q9NS39;Q9UHV9;Q96BK5;Q9UMY1;Q96JZ2;Q9NNW7;Q969Q5;Q63ZY3;Q9BSH4;Q96159;Q8IXM3;Q9Y2W6;O60437;Q9UQF2;Q9Y606;Q13794;Q13405;Q96AB3;Q9Y5R4;Q9BYD3;Q00005;P41250;P82914;O15304;Q7L592;Q9P0J6;Q15388;P78537;O14925;Q9H0N5;Q8N5N7;Q9GZT8;Q96BP2;O94925;Q9ULD0;Q9BYG8;Q9NVS2;Q9Y3D5;P82930;P09972;Q14154;Q9Y2Q9;Q9BWD1;P42704;P52815;P16220;Q96I23;P13051;Q13901;P48200;Q5BKX1;Q8IZY5;O95153;Q96EL3;Q9H9J2;Q5JPH6;Q00610;Q96A35;O43776;Q99417;Q9BZE1;Q3ZCQ8;Q8IVS8;O15446;Q9NQ50;Q92558;O43248;Q49AM1;Q9H4A6;Q9HAP2;P40337;Q7Z7F7;Q8TCC3;Q9Y697;Q9BQ69;Q96T21;Q96E29;Q7KZF4;O14879;Q96DV4;Q9H0U6;O95571;Q93015;Q9NR77;P57772;Q7Z4H3;Q9HD33;P18615;O00198;P54098;Q96TC7;Q9HCN2;P35754;Q5TYM5;Q7Z7A3;P15924;O60296;Q9Y3B7;Q53G26;Q07021;Q4U2R6;P17029;P48728;Q96BW9;Q9BZF9;P63104;Q9BRJ2;Q6RSH7;Q9HBK9;Q9HD36;A6NFY7;Q9NWU5;O43615;Q9P032;Q96Q83;Q9NX18;O75394;P54136;O75208;Q9H4I8;Q8TC71;Q9P0K7;P82912;Q9NUL7;Q49AN0;Q2VPK5;Q9ULZ2;Q12906;P13647;P08107;Q6DKK2;Q9H974;Q86WG3;P82663;Q9GZT3;Q9NRX2;Q8WW59;Q9NR28;Q9BRG1;Q9P0J0;Q6P161;Q9NZI6;Q9Y6G3;Q96QE5;Q6PI48;Q8TAE8;Q92552;Q9BYC8;Q9BSH5;O94763;Q9H2W6;P38646;Q9Y5J7;Q9P0U1;Q92843;Q15004;Q9P0M9;Q9Y2R9;Q96C03;P57721;Q9BRQ6;Q7L0Y3;Q96C00;Q9Y3D9;Q9BT92;Q9NX20;Q9UIF7;O75323;Q96EK5;Q5T653;Q8TAA5;Q9BUK0;P59047;Q8N983;Q7Z7H8;Q00059;O95363;O60783;Q9Y512;Q6NZI2;Q5TC12;Q7Z4T9;O43542;Q9NP92;Q96EH3;P19838;Q9Y6H1;O76031;P09001;Q8IWL3;P82675;Q96S55;P41220;O76095;P14317;Q9Y5Z4;Q9H1K1;O60936;P82933;Q9H3J6;Q9UI32;Q9BXF6;O14862;Q13875;Q92665;Q9H583;Q16526;O60239;Q9Y237;Q5HYI7;Q8WVM0;P27469;Q05195;P17482;O95865;O43402;Q9BW92;P10515;O00167;Q9NQE9;P13196;Q63HK5;Q8TC76;Q04837;Q9Y676;Q9Y3B9;Q07820;Q9NRI5;P53804;Q13114;P49591;P62244;Q9HCM9;P62906;Q96NA2;Q8IVG9;P35232;Q15054;Q96DX5;Q9BU61;Q9Y3E5;Q9C002;Q9BQC6;O60930;Q9H3K2;O43325;Q06609;Q7L3T8;O96000;Q9NTG7;Q14739;Q96CM3;Q9UHN1;O60333;Q7L2E3;O00165;Q9P015;Q15031;Q9Y3D3;Q13084;Q9UQN3;P78316;P41970;Q9Y2Y0;Q9BV47;P82909;Q9NQP4;Q9HB07;Q9BXH1;Q9NX63;P12036;Q9NS69;Q5T1J5;P82932;Q5CZC0;Q9BQ48;Q86T59;Q96C86;P30153;Q9P2R6;Q96EY1;P36639;P17040;Q9Y399;O15235;P49901;Q9UI43;Q8NF64;Q7Z2W9;Q9ULD2;O43715;O43708;P51398;Q9BYC9;P08238;O60238;Q8N7H5;Q5T160;P67775;Q9H6T0;Q96E11;P62263;Q9H0E9;Q9UMX3;Q99933;Q15006;Q99747;O43236;Q9Y2S7;Q9Y291;P02794;Q9BUL9;Q16143;Q9BYN8;Q9BQ70;Q99551;Q9NQR4;P58557;Q9BYD6;Q9NX40;P61604;Q9HD34;P51610;P56181;Q96CW1;O43502;O95831;Q99689;Q9GZY8;Q9H5Q4;Q9UGC7;Q6P1L8;P53370}

- 4767 [Cluster 434]GO:0044464+C cellular\_component [name] cell part [def] "Any constituent part of a cell, the basic structural and functional unit of all organisms." [GOC]
  - 4768 Pathogen[ Q2Q067] interacts with 1 human partners: {P14136}
  - 4769 Pathogen[ P0C214] interacts with 1 human partners: {P14136}
  - 4770 Pathogen[ P03346] interacts with 1 human partners: {P14136}
  - 4771 Pathogen[ Q85601] interacts with 1 human partners: {P14136}
  - 4772 Pathogen[ P14079] interacts with 1 human partners: {P14136}
  - 4773 Pathogen[ P03383] interacts with 1 human partners: {P14136}
  - 4774 Pathogen[ P03410] interacts with 1 human partners: {P14136}
  - 4775 Pathogen[ P14075] interacts with 1 human partners: {P14136}
  - 4776 Pathogen[ P0C206] interacts with 1 human partners: {P14136}
  - 4777 Pathogen[ P03363] interacts with 2 human partners: {Q92904;P14136}
- 4778 [Cluster 435]GO:0005925+C cellular\_component [name] focal adhesion [def] "Small region on the surface of a cell that anchors the cell to the extracellular matrix and that forms a point of termination of actin filaments." [ISBN]
  - 4779 Pathogen[ Q2Q067] interacts with 31 human partners: {Q68CZ2;Q8NHY2;Q8WX93;Q96B97;Q9BRV8;Q8IZW8;Q9UKX2;Q14511;Q8TF68;P14316;P56945;Q14192;Q9NY61;Q8ND90;Q86TP1;Q96AQ7;O60711;Q9HBL0;Q96IF1;O94811;Q9UGP4;Q15654;Q9NVD7;O95232;P12883;Q14145;A6NLJ0;O60504;Q14676;Q93052;Q9BX66}
  - 4780 Pathogen[ P0C214] interacts with 36 human partners: {Q9UGP4;Q9UI08;Q9UKX2;P56945;Q9BRV8;O94811;Q14145;Q9BX66;Q8NHY2;Q14676;Q9NY61;O95232;Q68CZ2;Q8TF68;Q15124;P13535;Q86TP1;Q15654;P12882;Q14192;O60711;Q14511;P12883;Q9HBL0;Q96JB3;O15144;O60504;P13533;Q9Y623;Q9NVD7;Q96AQ7;P98171;P14316;Q96B97;A6NLJ0;Q8ND90}
  - 4781 Pathogen[ P03346] interacts with 43 human partners: {Q96AC1;Q96B97;Q8WX93;Q9UGP4;Q14511;P98171;Q8IZW8;O15144;Q9BRV8;Q8NHY2;Q8WXH0;P14316;Q15149;Q96IF1;Q15942;Q9UI08;Q9BX66;Q68CZ2;Q96AQ7;P26038;Q8TF68;Q14676;Q14847;O95232;P56945;Q14192;Q9Y4G6;P48059;Q9HBL0;Q9NY61;O94811;Q9NVD7;Q8ND90;Q9UKX2;O60504;Q14145;Q9C0H9;Q93052;Q15654;A6NLJ0;O60711;Q96JB3;Q86TP1}
  - 4782 Pathogen[ Q85601] interacts with 40 human partners: {Q8WX93;Q8ND90;Q96JB3;Q9NVD7;P14316;P13533;Q9NY61;Q68CZ2;Q9BX66;Q15654;A6NLJ0;Q93052;Q96AQ7;Q14145;Q9UKX2;O60711;Q86TP1;P56945;O94811;O95232;P12882;Q15124;Q8IZW8;Q14192;Q15942;Q96B97;P12883;P48059;Q8TF68;Q96IF1;Q9UGP4;O60504;P13535;Q9HBL0;Q14511;Q8NHY2;Q9Y623;Q14676;Q9BRV8;O15144}
  - 4783 Pathogen[ P14079] interacts with 53 human partners: {Q96JB3;Q96KR4;Q14192;Q8IZW8;Q9NY61;Q9NR12;P98171;O15231;Q8WX93;Q93052;P26038;A6NLJ0;O60504;Q96B97;Q9UKX2;Q14847;Q15124;O60711;Q14118;Q9Y4G6;Q9C0H9;P50552;Q8TF68;Q9HBL0;Q15149;Q14145;Q8ND90;Q96AQ7;Q96IF1;Q68CZ2;O94811;O00559;Q96AC1;Q8WXH0;O43294;P12883;Q14676;O95232;P49023;Q9BRV8;Q9BX66;P48059;Q9NVD7;P14316;O15144;P35241;Q9UGP4;P49917;Q9UI08;Q5VW36;Q8NHY2;Q15942}
  - 4784 Pathogen[ P03383] interacts with 22 human partners: {Q9NY61;P56945;P14316;O94811;Q96AQ7;Q15654;A6NLJ0;Q14192;Q9UGP4;Q14511;O60711;Q9UKX2;P12883;Q8ND90;Q9BRV8;O95232;Q14145;Q86TP1;O60504;Q14676;Q8NHY2;Q9C0H9}
  - 4785 Pathogen[ P03410] interacts with 55 human

partners: {O60711; Q8NHY2; Q96JB3; Q9UI08; Q9UKX2; Q8TF68; P98171; A6NLJ0; Q96AQ7; Q9UGP4; Q5VW36; O94811; Q9NY61; O43294; Q15124; Q86TP1; O15231; O00559; Q15654; Q96IF1; Q8IZW8; Q93052; Q96KR4; P50552; Q14511; P12882; Q68CZ2; P26038; Q15942; Q14847; Q9HBL0; P12883; Q14118; Q9Y4G6; P48059; O60504; Q95232; P56945; Q96B97; Q8ND90; Q9NVD7; P13533; O15144; Q14676; P35241; Q9C0H9; P14316; Q15149; Q14145; P13535; Q8WXH0; Q9BRV8; Q8WX93; Q14192; Q9BX66}

4786 Pathogen[ P14075] interacts with 21 human partners: {Q14511; A6NLJ0; Q9BRV8; O94811; O95232; Q9UKX2; Q9NY61; Q9UGP4; Q8ND90; Q96AQ7; Q14676; Q8NHY2; Q15654; P14316; O60711; O60504; Q9C0H9; Q14192; Q14145; P56945; Q86TP1}

4787 Pathogen[ P0C206] interacts with 47 human partners: {Q9HBL0; Q86TP1; O60504; Q96KR4; P13533; Q9Y623; Q9UGP4; Q9NVD7; Q96IF1; Q96B97; O95232; O94811; Q8WX93; Q8IZW8; Q15654; Q9UI08; Q14145; Q15124; Q96JB3; P49917; P12883; Q8NHY2; P48059; Q14676; Q15942; Q8ND90; P12882; Q96AQ7; O43294; Q9BRV8; Q9UKX2; Q9C0H9; P98171; O15144; Q9BX66; Q8WXH0; P56945; Q14192; A6NLJ0; Q8TF68; O60711; Q9NY61; P13535; Q68CZ2; P14316; Q93052; Q14511}

4788 Pathogen[ P03363] interacts with 40 human partners: {Q15654; Q96AQ7; Q14145; Q9BX66; O94811; O95232; Q9UKX2; Q96B97; Q14847; Q9BRV8; P98171; Q14807; Q93052; Q9Y4G6; Q96IF1; Q9UGP4; O15144; Q9NY61; Q15149; Q9UI08; Q14511; P14316; Q8TF68; Q8IZW8; A6NLJ0; Q8WX93; Q8ND90; Q68CZ2; Q9HBL0; P56945; Q8NHY2; Q96AC1; Q9NVD7; Q14676; Q9NR12; Q86TP1; Q15942; O60711; Q9C0H9; Q14192}

4789 [Cluster 436]GO:0000152+C cellular\_component [name] nuclear ubiquitin ligase complex [def] "A ubiquitin ligase complex found in the nucleus." [GOC]

4790 Pathogen[ Q2Q067] interacts with 1 human partners: {Q9NXR7}

4791 Pathogen[ P0C214] interacts with 1 human partners: {Q9NXR7}

4792 Pathogen[ P03346] interacts with 1 human partners: {Q9NXR7}

4793 Pathogen[ Q85601] interacts with 1 human partners: {Q9NXR7}

4794 Pathogen[ P14079] interacts with 1 human partners: {Q9NXR7}

4795 Pathogen[ P03383] interacts with 1 human partners: {Q9NXR7}

4796 Pathogen[ P03410] interacts with 1 human partners: {Q9NXR7}

4797 Pathogen[ P14075] interacts with 1 human partners: {Q9NXR7}

4798 Pathogen[ P0C206] interacts with 1 human partners: {Q9NXR7}

4799 Pathogen[ P03363] interacts with 1 human partners: {Q9NXR7}

4800 [Cluster 437]GO:0000407+C cellular\_component [name] pre-autophagosomal structure [def] "A punctate structure localized in the vicinity of the vacuole that is required for the formation of autophagosomes." [GOC]

4801 Pathogen[ Q2Q067] interacts with 4 human partners: {Q9BSB4; Q8TDY2; O75143; Q13501}

4802 Pathogen[ P0C214] interacts with 4 human partners: {Q9BSB4; Q8TDY2; Q13501; O75143}

4803 Pathogen[ P03346] interacts with 5 human partners: {O75143; Q9BSB4; Q8TDY2; Q14596; Q13501}

4804 Pathogen[ Q85601] interacts with 5 human partners: {O75143; Q9BSB4; Q14596; Q8TDY2; Q13501}

4805 Pathogen[ P14079] interacts with 6 human partners: {Q8TDY2; Q14596; O75143; Q9BSB4; Q96GC9; Q13501}

4806 Pathogen[ P03383] interacts with 4 human partners: {O75143; Q8TDY2; Q13501; Q9BSB4}

4807 Pathogen[ P03410] interacts with 7 human partners: {Q96GC9; Q9BSB4; O75143; Q8TDY2; Q13501; Q14596; Q5MNZ9}

4808 Pathogen[ P14075] interacts with 4 human partners: {Q9BSB4; O75143; Q8TDY2; Q13501}

4809 Pathogen[ P0C206] interacts with 5 human partners: {Q9BSB4; Q13501; Q14596; Q8TDY2; O75143}

4810 Pathogen[ P03363] interacts with 3 human partners: {O75143; Q9BSB4; Q8TDY2}

4811 [Cluster 438]GO:0005694+C cellular\_component [name] chromosome [def] "A structure composed of a very long molecule of DNA and associated proteins (e.g. histones) that carries hereditary information." [ISBN]

4812 Pathogen[ Q2Q067] interacts with 154 human partners: {P49454; P30153; Q2YD98; Q9Y4R8; O43463; Q96EE3; Q9NYP9; Q9NVH2; Q96H22; Q71F23; Q9Y3S2; Q8IY18; Q12888; Q14980; Q7Z5K2; Q9H2K2; Q9NYB0; Q13352; Q7Z460; Q9NR48; Q6IPU0; Q15554; Q96R06; Q6P1K2; Q9HBM1; Q5UIP0; O75478; O75935; Q5EE01; P54274; Q9BSI4; P11387; Q8WYP5; Q9H3R5; Q9UIS9; Q5FBB7; O00566; P49450; O95347; Q13257; Q8N2Z9; A8MT69; Q03188; Q9UER7; Q15172; Q9NXR1; Q53HL2; P67775; O43684; Q8NBT2; Q9H981; Q9H668; Q92547; Q9H6R4; Q8TBE0; Q9P258; O00541; Q8NFH4; P12270; O75531; Q9BSD3; P11388; Q9NQS7; Q9Y448; O43264; Q15003; P62714; Q7Z7K6; Q92674; Q96KR1; Q15047; Q9BW27; Q96BT3; Q9BZD4; O60934; O43482; Q86US8; Q9NSP4; Q8N140; O75177; P36873; Q15021; P50748; P0CW71; Q96JM3; Q86Y97; Q96AP0; Q7Z3K3; O14746; Q96BK5; O75530; Q9H410; Q8NFH3; P12956; Q9BT49; O60216; Q9C0C2; Q99496; A1L190; Q9UJ98; O75122; O76064; Q2NKJ3; Q8IX90; Q8NG31; Q9H816; Q9Y6D9; P57740; Q96BD8; Q9H900; O95271; Q96MG7; Q96IY1; Q96IK1; P17096; P42166; P46013; Q14676; Q9BXS6; Q8WUM0; Q96MF7; Q14683; Q8WVM7; P13010; Q9BU64; O95229; Q9Y5B9; P45973; O14777; Q562F6; Q9BPX3; Q8NCD3; Q8N3U4; P51808; Q86WV5; Q9H5I1; Q9H081; Q7Z6E9; P49711; Q9NXX6; Q96FF9; O15392; Q96EA4; Q9P0W2; P07199; O15446; Q96DN6; O14576; Q6P0N0; Q7Z6E9; O96028; Q8WTS6; Q6NZ36; Q08945}

4813 Pathogen[ P0C214] interacts with 156 human partners: {Q9H081; Q9BPX3; Q8IY18; O43684; Q7Z3K3; Q96BK5; Q13257; O75935; Q9NVH2; Q9H5I1; Q6P0N0; P42166; Q15047; O14746; Q96BT3; Q9BT49; Q5UIP0; Q9H816; Q96KR1; Q53HL2; O43264; A1L190; P30153; Q9NXX6; P13010; Q15003; Q9BSI4; Q15554; O75478; Q96EA4; Q9C0C2; O75530; O00541; Q96R06; Q9BXS6; P57740; Q5EE01; Q8WYP5; P50748; Q9UJ98; O15446; Q15172; P17096; Q6NZ36; O95229; Q96EE3; Q6IPU0; Q8NBT2; Q96DN6; Q9H6R4; P51808; Q14676; P07199; Q6P1K2; O43463; P46060; Q562F6; Q8TBE0; Q96FF9; O95347; P49450; Q14980; P62714; Q8N2Z9; Q03188; Q9UIS9; Q8NCD3; O75122; O43482; Q86WV5; Q86US8; Q92674; A4D1E9; Q9BW27; Q9UER7; Q96BD8; Q9P0W2; Q7Z6E9; Q9HBM1; Q9P258; Q9NYP9; Q9Y4R8; Q96MF7; P0CW71; Q13352; Q96MG7; P67775; Q8NFH3; Q9Y5B9; P11388; Q7Z7K6; Q86Y97; O75531; Q9H2K2; Q9BSD3; P11387; Q99496; Q9H410; O15392; Q9NYB0; Q9H3R5; P49711; Q7Z5K2; Q8IX90; Q14683; Q8N3U4; Q8WVM7; Q8NG31; O14576; Q7Z460; Q9NPC3; P36873; Q9H900; Q5FBB7; Q96JM3; Q9NQS7; P45973; Q12888; Q8N7B1; Q9NR48;



- 3463;Q5UIP0;Q96BD8;Q6NZ36;P57740;A1L190;Q9BPX3;Q2NKJ3;Q9NYB0;P67775;Q9P258;Q8WYP5;O75122;Q8NFH3;O60934;Q13352;P46060;Q7L229;O00566;Q8N7B1;O14777;Q9BU64;Q15021;Q8N2Z9;O75530;Q8N0S2;Q13257;Q9NQS7;Q96IK1}
- 4819 Pathogen[ P14075] interacts with 139 human partners: {A8MT69;P11387;O00566;Q6IPU0;P12956;Q14683;Q96KR1;Q9Y6D9;O14746;Q9H081;Q9H6R4;Q562F6;Q15554;Q9BSI4;Q08945;Q9NQS7;Q8N140;Q8WVM7;P07199;Q2NKJ3;Q96R06;Q92674;P51808;Q8WVK7;P57740;Q5EE01;A4D1E9;Q8WYP5;Q7Z460;O00541;P17096;Q96IY1;Q13257;Q15047;A1L190;Q9BXS6;Q9NQR1;Q96H22;O43684;P45973;Q9BT49;Q96BD8;P12270;Q96AP0;O14777;Q96FF9;P36873;O95229;O95347;Q8N2Z9;Q96BK5;Q9H3R5;Q9UJ98;Q9BW27;P54274;Q9H5I1;O75478;Q86US8;Q9BU64;Q96EA4;Q9P258;O75935;Q8N7B1;Q14676;P0CW71;Q2YD98;Q7Z5K2;Q9Y5B9;Q9NVH2;Q9UIS9;Q86WV5;Q9NYP9;Q96EE3;Q9H816;Q8TBE0;Q96BT3;Q9Y3S2;Q5FBB7;Q99496;Q9H410;P62714;Q9NXX6;P67775;P30153;Q8IX90;Q7Z7K6;Q8NFH3;Q86Y97;Q9H900;Q9Y4R8;Q53HL2;Q8NCD3;P49711;P50748;O43463;Q12888;Q9H981;Q9HBM1;Q5UIP0;Q6P1K2;P13010;Q15003;Q9UER7;Q96DN6;Q13352;Q96MF7;Q8WUM0;Q9C0C2;O43264;O95271;Q14980;Q03188;Q7Z3K3;Q8NG31;O43482;Q9BSD3;P49454;O15446;Q6P0N0;Q96IK1;Q92547;Q9BPX3;P46013;Q71F23;Q8NFH4;Q9Y448;O60216;Q96MG7;Q8NBT2;Q9BZD4;Q9P0W2;Q15021;Q8WTS6;O75530;O75177;Q8N3U4;O75531;Q9NYB0;Q9H668}
- 4820 Pathogen[ P0C206] interacts with 184 human partners: {O95271;Q9Y3S2;Q96EE3;Q9HBM1;Q2YD98;O60216;Q9BPX3;Q8WYP5;Q8N140;O75530;Q2NKJ3;P13010;Q6IPU0;P45973;Q9BYG3;Q9NSP4;Q8WV22;O14576;Q5UIP0;Q9H900;Q96AP0;Q15019;Q9H981;P30153;Q9Y6D9;Q7L2Z9;A1L190;P51955;Q9BT49;Q86WV5;Q15554;Q6NZ36;Q15172;O60934;P40692;Q9H081;O14777;O43463;P46013;Q8N0S6;O75177;Q7Z5K2;Q92791;Q9Y448;Q9NYP9;Q15021;Q9UER7;Q9BZD4;Q96MG7;Q9NVH2;Q9Y5B9;Q9BSI4;Q9NPC3;Q9P267;Q9H410;Q9H668;Q9UJ98;Q9H816;P57740;P49454;Q96BK5;P67775;Q13257;Q9BU64;Q14141;Q9GZM8;Q8IX90;Q96FF9;Q15003;Q9NQV7;O75122;Q9H6R4;Q92674;Q8WUM0;Q5EE01;P54274;O75531;P46060;Q6P1K2;Q8NBT2;Q96BD8;Q9H3R5;Q12888;Q86US8;O15516;Q9P0W2;Q9UQE7;Q86Y97;Q9UIS9;P49450;O95347;P42166;Q6IBW4;Q9NR48;Q8NCD3;P51808;Q14683;Q96KR1;Q14676;P49711;Q96IY1;Q9NQR1;Q9Y6G9;Q7Z7K6;Q96BT3;O96028;Q7Z3K3;Q8WTS6;O15446;Q13352;Q5FBB7;P49916;P62714;Q53HL2;O43482;Q96MF7;Q96JM3;Q9H5I1;O75478;Q96FI4;O15392;Q6P0N0;Q9Y4R8;P0CW71;Q8N0S2;Q8TBE0;Q9P258;O00541;Q96H22;Q9C0C2;P17096;A4D1E9;Q9NYB0;Q8NFH4;Q562F6;P07199;Q13362;Q8N3U4;P10412;Q9NXR1;Q96EA4;P11388;Q9NUX5;Q8N2Z9;Q16181;Q15047;Q9BXS6;P11387;O43684;Q14980;Q7Z460;Q7Z6E9;Q9NQS7;O75935;Q8NFH3;Q92547;P36873;O76064;Q8IY18;P50748;Q96IK1;P12956;Q71F23;O43264;Q08945;Q8WVM7;Q9NTJ3;Q8NG31;Q9H2K2;Q8N7B1;Q13472;Q96DN6;Q8WVK7;Q99496;Q9NXX6;Q9BW27;Q9BSD3;A8MT69;Q03188;O00566;O14746;Q9H7Z6;P12270;O95229}
- 4821 Pathogen[ P03363] interacts with 162 human partners: {Q9BSD3;Q92547;Q9H816;Q96EA4;P12956;Q9BZD4;Q8IZA3;P46060;Q9UJ98;Q96IK1;P49454;Q6P0N0;Q96IY1;Q6P1K2;Q9NYP9;Q7Z7K6;Q9Y6D9;P62714;P12270;Q9H081;Q9H981;P36873;Q92674;Q8NFH4;Q15021;Q9NXX6;O95229;Q9Y4R8;Q15554;Q9H5I1;Q96BD8;P11387;Q96BK5;Q13362;P13010;Q8WYP5;O95347;Q8NFH3;P45973;Q14980;Q86US8;Q7Z6E9;Q9NYB0;O43264;Q8NBT2;Q2YD98;Q8N140;Q96FI4;Q92791;Q9NPC3;Q86WV5;Q8N2Z9;Q9P258;Q9UER7;Q99496;Q53HL2;Q8WVK7;Q9BXS6;O75530;Q9H410;O14746;P50748;O15047;O15446;Q9BSI4;Q16695;Q9H2K2;Q8IX90;Q96AP0;P49711;Q5FBB7;P07199;Q9H900;Q6NZ36;Q5EE01;Q8WUM0;Q96JM3;Q8N7B1;Q96R06;O43684;Q9Y5B9;P49450;P17096;P54274;Q9C0C2;Q9NQS7;Q13472;Q9H668;Q9NSP4;Q8WVM7;P10412;O75935;Q9HBM1;Q5UIP0;Q7Z460;O95271;Q9BPX3;O00566;Q03188;Q8NG31;Q13257;Q8NCD3;Q9UPS6;Q9NVH2;Q9NUX5;Q7Z3K3;Q71F23;P51808;P0CW71;P57740;Q9BYG3;Q9NR48;O96028;Q96BT3;Q15172;Q2NKJ3;Q08945;O43463;O75531;Q9P267;Q9H3R5;Q9BT49;Q8WV22;Q9H6R4;Q8N3U4;O14777;Q9NQR1;Q96DN6;Q96MG7;Q9Y448;O43482;Q96FF9;O75478;P46013;Q562F6;Q14676;Q96KR1;Q9NXR1;Q14141;P30153;Q8WTS6;Q7Z5K2;Q9P0W2;Q8IY18;Q13352;O00541;Q15047;Q96MF7;Q86Y97;P67775;Q8TBE0;Q14683;P42166;Q15003;O14576;Q9BW27;Q12888;O75177;A8MT69;A1L190;O60216;Q9UIS9}
- 4822 [Cluster 439]GO:0030057+C cellular\_component [name] desmosome [def] "A cell-cell junction in which
- 4823 Pathogen[ Q2Q067] interacts with 5 human partners: {O60437;Q9H307;P15924;Q99569;Q674X7}
- 4824 Pathogen[ P0C214] interacts with 4 human partners: {P15924;Q9H307;O60437;Q674X7}
- 4825 Pathogen[ P03346] interacts with 6 human partners: {O60437;P15924;Q99569;Q9H307;Q13835;Q674X7}
- 4826 Pathogen[ Q85601] interacts with 5 human partners: {Q99569;O60437;Q9H307;P15924;Q674X7}
- 4827 Pathogen[ P14079] interacts with 8 human partners: {P15924;Q13835;O60437;Q9H307;Q99569;Q92817;Q96FX8;Q674X7}
- 4828 Pathogen[ P03383] interacts with 3 human partners: {P15924;Q9H307;O60437}
- 4829 Pathogen[ P03410] interacts with 9 human partners: {P15924;Q13835;Q96FX8;Q674X7;Q92817;Q15517;O60437;Q9H307;Q99569}
- 4830 Pathogen[ P14075] interacts with 4 human partners: {Q9H307;Q96FX8;O60437;P15924}
- 4831 Pathogen[ P0C206] interacts with 7 human partners: {Q96FX8;Q9H307;O60437;Q13835;Q99569;P15924;Q674X7}
- 4832 Pathogen[ P03363] interacts with 7 human partners: {Q13835;O60437;Q9H307;Q99569;P15924;Q674X7;Q92817}
- 4833 [Cluster 440]GO:0005916+C cellular\_component [name] fascia adherens [def] "A cell-cell junction that contains the transmembrane protein N-cadherin, which interacts with identical molecules from neighboring cells to form a tight mechanical intercellular link\_ forms a large portion of the intercalated disc, the structure at which myofibrils terminate in cardiomyocytes." [GOC
- 4834 Pathogen[ Q2Q067] interacts with 2 human partners: {P15924;P17661}
- 4835 Pathogen[ P0C214] interacts with 2 human partners: {P15924;P17661}
- 4836 Pathogen[ P03346] interacts with 5 human partners: {P15924;Q13813;P17661;Q9Y4G6;Q9UI47}

4837 Pathogen[ Q85601] interacts with 2 human partners:{P17661;P15924}

4838 Pathogen[ P14079] interacts with 6 human partners:{Q9UI47;P15924;Q9Y4G6;Q702N8;P17661;Q13813}

4839 Pathogen[ P03383] interacts with 2 human partners:{P15924;P17661}

4840 Pathogen[ P03410] interacts with 6 human partners:{P15924;P17661;Q702N8;Q9Y4G6;Q9UI47;Q13813}

4841 Pathogen[ P14075] interacts with 2 human partners:{P17661;P15924}

4842 Pathogen[ P0C206] interacts with 3 human partners:{P17661;Q9UI47;P15924}

4843 Pathogen[ P03363] interacts with 5 human partners:{Q9UI47;Q9Y4G6;P15924;P17661;Q13813}

4844 [Cluster 441]GO:0033276+C cellular\_component [name] transcription factor TFTC complex [def] "A protein complex that does not contain either a TATA-binding protein (TBP) or a TBP-like factor, but is composed of several TAFIIs and other proteins, including a histone acetyltransferase. This complex is able to nucleate transcription initiation by RNA polymerase II, can mediate transcriptional activation, and has histone acetyltransferase activity." [PMID]

4845 Pathogen[ Q2Q067] interacts with 14 human partners:{Q9Y4A5;Q16594;O75486;Q15542;Q12962;O75529;Q6P1X5;O75528;P49848;O00268;Q92830;Q16514;Q15545;Q9HBM6}

4846 Pathogen[ P0C214] interacts with 14 human partners:{O00268;O75486;O75528;Q12962;Q15545;Q16594;Q15542;Q9HBM6;P49848;Q6P1X5;Q16514;O75529;Q9Y4A5;Q92830}

4847 Pathogen[ P03346] interacts with 14 human partners:{Q15542;O75486;O00268;Q92830;O75528;Q9Y4A5;O75529;P49848;Q9HBM6;Q6P1X5;Q16514;Q12962;Q15545;Q16594}

4848 Pathogen[ Q85601] interacts with 14 human partners:{Q15542;O75528;Q9Y4A5;Q15545;O00268;Q16594;Q9HBM6;Q92830;O75529;P49848;Q6P1X5;Q16514;Q12962;O75486}

4849 Pathogen[ P14079] interacts with 14 human partners:{Q9Y4A5;O75528;Q16594;Q92830;O75529;Q6P1X5;Q12962;P49848;Q16514;O75486;Q15542;O00268;Q9HBM6;Q15545}

4850 Pathogen[ P03383] interacts with 14 human partners:{O75528;O75486;Q9Y4A5;Q15542;Q9HBM6;O75529;Q16594;Q92830;P49848;O00268;Q16514;Q6P1X5;Q12962;Q15545}

4851 Pathogen[ P03410] interacts with 14 human partners:{Q92830;O00268;Q12962;O75528;O75486;Q9HBM6;Q9Y4A5;Q16514;P49848;Q6P1X5;Q16514;Q15542;O75529;Q15545}

4852 Pathogen[ P14075] interacts with 14 human partners:{Q12962;Q15542;Q6P1X5;Q9Y4A5;Q16594;O75528;P49848;Q16514;Q15545;O00268;O75486;O75529;Q92830;Q9HBM6}

4853 Pathogen[ P0C206] interacts with 14 human partners:{O75486;O75528;Q92830;Q15545;Q16514;P49848;O00268;O75529;Q9Y4A5;Q15542;Q6P1X5;Q9HBM6;Q12962;Q16594}

4854 Pathogen[ P03363] interacts with 14 human partners:{P49848;Q16514;Q15545;O00268;Q12962;O75529;Q92830;Q15542;Q9HBM6;Q9Y4A5;O75486;Q6P1X5;O75528;Q16594}

4855 [Cluster 442]GO:0005856+C cellular\_component [name] cytoskeleton [def] "Any of the various filamentous elements that form the internal framework of cells, and typically remain after treatment of the cells with mild detergent to remove membrane constituents and soluble components of the cytoplasm. The term embraces intermediate filaments, microfilaments, microtubules, the microtrabecular lattice, and other structures characterized by a polymeric filamentous nature and long-range order within the cell. The various elements of the cytoskeleton not only serve in the maintenance of cellular shape but also have roles in other cellular functions, including cellular movement, cell division, endocytosis, and movement of organelles." [GOC]

4856 Pathogen[ Q2Q067] interacts with 372 human partners:{Q3KQU3;P49454;Q8WW24;Q96TC7;Q15511;Q12798;Q9Y2J2;Q5SZL2;Q01082;Q8IXJ6;Q9BTV5;O75161;Q5TD94;Q96GE4;Q15013;Q6P2H3;P50995;Q14008;Q9Y2Y0;Q9H4X1;Q9Y613;Q9Y615;Q7Z4H7;P78559;Q9Y266;P07737;Q15398;Q96RT8;Q70YC5;P63172;Q9P209;Q8WX93;Q14315;Q9NQW6;Q96B97;O00291;Q8NCR6;Q14980;P35080;O43663;Q95684;Q7Z460;Q8IZW8;Q8TF09;O14639;Q8N3V7;P63313;Q9UJT2;O43516;O43189;Q96ST8;Q92797;Q96R06;Q9H1H9;O14604;O43805;Q14204;Q5SW79;Q8N137;Q8N0Z3;O94927;O60437;Q5UIP0;Q5VYK3;Q9UJW0;O75935;P78406;Q7Z7A1;Q32MZ4;P54274;Q9NZJ0;Q9BXW4;Q8WWK9;A8MVW5;Q8NHV4;Q6P1N0;Q14511;P63167;Q01201;Q9P1Y5;Q5FBB7;Q13884;Q13257;Q86XR8;Q9BZV1;Q96AQ6;Q8IZP0;Q96EY5;Q9UJT9;Q9HC77;Q9UPV0;P06748;Q14757;Q9UNH5;Q9NVX0;O75347;Q6P582;Q9NXR1;O00423;P29966;Q13432;A8K8P3;Q9Y237;Q9C099;Q9P270;Q53HL2;O00401;Q96SN8;P67775;Q96K30;P42704;P04792;Q92547;Q9P258;O95359;Q08AD1;Q1MSJ5;P15924;Q8NF91;Q96N16;Q14790;A6NKF1;Q92558;Q5BJF6;Q8IY31;Q2M2Z5;O95198;Q5JTW2;P60673;P54105;Q9NP97;Q8TF74;P14635;Q9BYD9;P23528;Q9NYZ3;Q99871;Q96QF0;Q68DK2;Q8TEP8;Q96DB5;Q9NQS7;Q14203;Q99569;Q9HBL0;Q96IF1;Q8N336;Q76KD6;O15061;Q9Y448;Q8N0Z2;P0CG35;Q13137;O43264;P04264;Q9Y3A5;O94811;Q9UHI6;P11532;P62081;Q8WUM4;P62714;Q7Z7K6;P17987;Q9H2C0;Q9C0D2;P62328;Q9BYV8;Q9BW27;O43236;Q08J23;Q8NHQ1;Q9Y6Y0;P11171;Q9NXB0;Q6PGN9;Q13561;Q66GS9;Q6IN85;Q9Y6N9;Q8WWW0;Q9H9H5;Q15654;O43303;Q92624;Q8TES7;O76095;Q96RT7;P46939;P09972;Q12834;Q15643;P54840;P41002;Q8N3F8;P0CG34;Q674X7;Q9UBK9;Q5MIZ7;P50748;P06396;Q9BQ89;Q96JM3;Q9BSJ2;Q5JR59;P29474;P50991;Q9BT25;Q96Q89;Q13233;O15265;Q00587;Q9BR76;P42025;Q9H6D7;Q9C0F1;Q53HC0;Q99550;Q96MT8;Q15078;Q9NVD7;P50613;Q12873;P04406;Q00005;Q8TD16;Q99615;Q5VU43;Q13045;Q5TB80;Q1W6H9;O60299;A6NK89;Q9H0B6;Q99996;Q8WUW1;Q9ULW0;Q9NZU7;P50570;Q02241;Q86VQ0;O75

665;Q9C0C2;O00139;Q9H4H8;Q53EZ4;Q96NB1;O60308;Q8N8E3;P37198;Q08AG7;O94986;Q86X95;O75122;Q5TZA2;Q07866;Q9NRI5;Q8IX90;Q02952;Q68DX3;Q15051;P23258;Q9H816;Q8IWC1;Q9UPY8;Q5T5Y3;Q14839;Q6UVJ0;Q9Y6D9;O95996;P59998;P42768;Q9UKT4;Q96T76;Q96BD8;Q6QNY1;Q9UI95;Q9Y3D0;O95271;Q717R9;Q96JN8;Q8NA72;O75410;P41208;Q9NR09;Q96IK1;Q15628;Q8IZT6;Q86SQ7;Q8TC76;Q13425;Q6DKK2;P80723;Q9NS23;Q9UPA5;P60953;O60504;O75154;Q9NWB7;Q13409;Q495M9;O15182;Q6NZG4;Q9BXS6;Q14244;Q9NY27;Q9H204;P18848;Q9UGJ1;P35579;O95613;Q96FJ2;Q49MG5;P30305;Q3SYG4;Q9BZF9;P24941;Q9UKK3;Q8N4C6;Q9BX66;Q99689;P08670;Q9BVN2;Q8TDR0;Q9H7T9;Q9BPU9;Q86VS8;Q92597;Q66K74;Q15834;Q9UH77;Q96CS2;P51808;Q9Y281;P27816;Q86WH2;Q96M29;Q13042;P61586;Q92556;Q15691;Q8WVK7;P60510;Q8TAP9;Q8IW35;Q96ED9;Q9UMS4;O15083;Q15154;Q6Q759;P07197;Q9NPA3;Q9NRR3;O15392;Q96EA4;Q96JJ3;Q68CZ6;Q14194;Q9BT92;O14576;Q9BRK4;Q9Y224;Q5VT06;Q7Z6E9;Q9ULD2;Q15650;Q9BV73;Q8N9B5;Q96CW5;Q9NX95;P17661;Q8TAP6}

4857 Pathogen[ P0C214] interacts with 383 human partners: {Q9NWB7;P29474;Q9NRR3;Q5SZL2;O15078;Q07866;P35080;Q5MIZ7;Q9UI08;O94927;Q8TAP9;O15083;P60709;Q13257;O75935;Q9Y615;O75161;Q9H4X1;Q68DX3;O43805;P62081;P29966;P68133;Q9BSJ2;Q6NZ67;Q15154;Q8N0Z2;O15061;Q8IZP0;Q8IY31;Q08AD1;Q14008;Q5UIP0;P49368;O95198;Q1MSJ5;O94986;Q8WWW0;P16157;Q8NCR6;P04264;Q9H816;Q92624;Q9NRR8;Q53HL2;Q00005;O43264;O75347;O95684;Q15628;Q9NRI5;Q15013;P41002;Q9UJW0;Q02241;Q9NS23;Q15051;Q9BRK4;Q96ED9;P48643;O94811;Q6DKK2;Q14203;Q9Y281;Q7Z4H7;Q12873;P06748;Q9P209;Q8NHQ1;P50613;Q5SW79;Q9UJP4;P15924;Q9NY27;Q96EA4;Q9C0C2;Q9P1Y5;Q53HC0;Q96SN8;Q495M9;Q8TF09;Q96R06;Q8NA72;Q9BX66;Q9NPA3;P78406;A8K8P3;P63313;Q9C099;P50748;A8MVW5;Q9Y6N9;Q8NHV4;Q92797;Q7Z7A1;P61586;Q9BXW4;Q5VYK3;P04792;Q9BYV8;Q8WW24;Q9BX66;P23258;P42704;Q9HC77;Q5JTW2;Q13515;O14639;P60953;O00423;Q96MT8;Q14204;O60299;P14635;Q32MZ4;Q9Y613;P06396;O60437;P51808;O00139;Q96CW5;Q14194;Q15691;Q13884;P0CG35;P46060;Q96TC7;Q9Y266;Q9UI95;P52565;Q9BYD9;Q9BTE1;Q8N336;Q99615;Q96RT7;Q9UGJ1;Q5JR59;Q01082;P27816;Q9UMS4;Q9BZV1;O95359;Q9BT92;P60510;Q96CS2;Q14315;Q14980;Q8TEP8;P11532;Q9UPV0;Q9C0F1;Q9H0B6;P62714;Q6PGN9;Q96ST8;O43303;Q8IWS5;Q76KD6;Q9Y237;O43516;Q13137;P18848;O75122;Q86WH2;Q674X7;Q92597;Q86VS8;Q15834;Q13045;P0CG34;Q13233;Q96EY5;Q96Q89;Q12798;Q8IVI9;Q01201;Q8NF91;P37198;Q8TF74;Q9Y224;Q15124;Q9BW27;Q13425;O14613;Q9Y6Y0;Q5VU43;Q9NXB0;Q96BD8;Q66GS9;Q8TDR0;Q7Z6E9;Q8IYX8;Q9H9H5;Q14244;Q9BPU9;O14604;Q9UJT2;Q9P258;Q86XR8;Q15398;O43189;Q08J23;Q9BT25;P46939;Q16658;Q92556;Q12834;Q9ULW0;Q9NZJ0;P08670;O43663;Q15643;Q53EZ4;Q96LK0;P24941;Q9NXG0;Q99689;Q15654;Q3SYG4;Q9ULD2;Q14019;Q99550;P67775;Q9UHI6;Q6P2H3;P59998;Q96K30;P30305;Q5T5Y3;Q8TD16;Q8TAP6;Q9NZU7;Q96DB5;Q96RT8;Q8TC76;Q9NX95;Q9UNH5;P62736;Q7Z7K6;P78559;Q8TES7;Q15650;Q8WUW1;Q99871;Q96AQ6;Q1W6H9;Q14511;P09972;P41208;Q6IN85;Q92558;O75665;O15392;Q2M2Z5;Q8N9B5;Q9H6D7;Q9UPY8;O75410;Q9HBL0;Q8IX90;P42025;Q9H204;Q9H9E1;Q96G01;Q8IWC1;Q9BVN2;P63172;O14576;Q3KQU3;Q7Z460;Q9BV73;P54840;Q9V2M9;Q9NYZ3;P60673;Q9UKK3;A6NKF1;Q96FJ2;Q5FBB7;Q8IXJ6;Q9BTV5;Q9Y2Y0;O00399;Q96JM3;Q9NQS7;Q9NR09;O15265;Q68CZ6;Q9NPF7;Q5BJF6;P17987;Q8N0Z3;Q8WVK9;O15144;P80723;Q9BZF9;O00401;O60504;Q86SQ7;Q5VT06;Q96GD0;Q68DK2;P07197;Q6P1N0;Q92614;P50570;Q9NVD7;Q9Y3D0;Q92547;O95613;P50991;Q99996;Q8N4C6;Q8N3V7;Q9BK20;Q13409;Q6QNY1;Q5TD94;O14757;Q08AG7;Q9NXR1;O95271;Q8N3F8;P42768;P49454;Q9Y3A5;Q9UBK9;Q9NVX0;Q9P270;P63261;Q6P582;Q96JJ3;O60308;Q95Y22;O43236;Q8IZT6;Q9Y448;P50995;Q13561;Q5TB80;Q96QF0;Q9UJT9;Q9C0D2;Q7L5Y9;Q9H492;Q96M29;Q9H7T9;A6NKR8;Q86X95;P04406;Q6UVJ0;Q9BQ89;Q70YC5;Q9UH77;O00291;Q96B97;Q9UKT4;P11171;Q9Y6D9;Q96NB1;Q14839;Q5TZA2;P62328;Q8N8E3;Q49MG5;Q96T76;Q96JN8;Q66K74;P54274;O75154;Q13432;Q9BR76;Q8WVK7;P36404;P63167;Q6Q759;O15511;Q14790;Q13042;P17661;Q96N16;Q8N137;Q8WUM4}

4858 Pathogen[ P03346] interacts with 509 human partners: {O95166;Q13425;Q08J23;Q9Y6N9;O60437;Q9NZJ0;Q96G01;P15924;Q5T5Y3;P54105;Q5SZL2;Q6P582;Q9Y6D9;Q9NRI5;O15265;Q8N3V7;Q96AC1;Q15058;Q99615;Q5T6F0;P09972;Q7Z7A1;Q9BT25;Q5FBB7;Q96FJ2;Q8TDG2;Q9BXS6;Q9H6D7;Q8N0Z2;Q9H4X1;Q86VQ0;Q96B97;Q9Y281;Q9NQC8;P50570;P02549;Q9NSK0;Q9UJW0;Q00005;Q6NZ67;Q9Y283;O14576;Q8WX93;Q01201;Q14315;P04406;O75112;Q15834;Q9NQW6;Q86XR8;Q14511;Q9HCS5;Q8N8E3;Q8N9B5;Q5JTW2;O15392;Q86VS8;Q68DX3;O95613;O95684;Q12840;Q9UH77;O14639;P06748;Q96N16;P29474;Q8IZW8;O15511;Q5JR59;Q2M2Z5;Q99569;Q13515;P23258;Q99871;O15144;Q96RT8;O43516;Q9Y613;Q8IVI9;Q7Z4H7;Q9BPU9;P11277;O43379;Q8IY31;Q9UJT9;P42768;Q5MIZ7;O95714;P35579;Q8WYJ6;P62736;Q9NRR3;Q8IZP0;Q92614;O75410;Q15154;O75935;Q96R06;Q96AQ6;O00139;Q13884;Q15013;P51808;Q8N137;Q14247;P78406;O60308;Q15691;Q32MZ4;P0CG34;P54274;Q99689;Q8WXH0;A8MVW5;Q08A81;Q5BKY1;Q8NHV4;Q96K30;Q9NZU7;P80723;P24941;Q9NY27;Q68CZ1;Q9UIF3;Q9UMS4;Q9NXG0;Q9Y6D5;O95359;Q15149;Q8NA72;Q8TDY3;Q9BZV1;Q9UKK3;Q9H3S7;Q9H329;Q8NCR6;Q9HC77;Q9NQY0;P60709;Q5TD94;Q99426;O14757;Q66K74;Q9HBG6;Q14141;Q9NX95;O43264;O14682;Q9NXR1;O15061;Q53HL2;Q9P209;Q9H1H9;Q8IXJ6;Q96M29;Q96IF1;Q00587;P60953;Q9H2C0;Q9BR76;Q96TC7;Q9P1Y5;Q15942;P28289;P62714;P67775;Q9P258;Q14204;Q6XZF7;Q96IK1;O14613;Q9UI08;Q14203;Q9Y5K6;Q9BX66;Q96CW5;P37198;Q53HC0;P41002;Q9UI95;P52565;O60662;Q70YC5;Q96JJ3;O00291;Q9BTE1;Q8IYX8;P46939;Q9BQ89;Q9BT92;P16157;Q9C0F1;P26038;Q96LK0;Q2V2M9;Q8N0Z3;O00151;O43805;Q8TEW0;Q12834;P30305;Q8TF09;Q8WUW1;Q8TC94;Q15051;O15083;Q9BT04;Q14980;Q8TEP8;P16452;Q6P2H3;O75347;Q9H0R8;Q13813;Q69YQ0;Q13424;Q96ST8;Q13432;Q9BRK4;Q6NKC8;Q76KD6;Q8TAM2;Q13137;Q9C0H6;Q15555;Q6P1N0;Q5TB80;Q9Y266;P41208;P07197;Q01082;A6NKR8;Q9C0D2;O75161;P18848;P59998;Q9BW27;Q15643;Q9H9E1;Q14847;Q9Y6Y0;P11171;Q9NXB0;Q9NVX0;Q66GS9;Q9Y224;O75665;Q9ULW0;Q9Y237;P17661;Q9H9H5;O43236;Q8N960;Q96EA4;Q15398;Q9P0K7;A6NKF1;O00423;Q8IW35;Q92597;P60673;P14635;O43189;Q86SQ7;Q13042;O94986;P46060;P35080;Q6QNY1;Q9NWB7;Q92599;Q7Z6E9;Q96SN8;Q8N841;Q15019;Q9Y4G6;P42704;P50991;P58107;Q9H9H5;Q6ZP65;Q14008;O43491;Q9ZGN1;Q92558;Q9UJT2;Q5VT06;Q9UKA4;Q3SYG4;Q9UHI6;Q9UI47;O60447;Q9HBL0;Q68CZ6;Q8TC76;Q9UGJ1;P49368;Q5VYK3;Q6P597;O15145;P62081;Q96K30;Q8IZS6;P36404;Q9H492;O95198;Q9BTV5;Q53EZ4;Q9NQS7;Q02952;Q8N0X2;Q96Q89;Q8TD16;Q3KQU3;Q8TAP6;Q9Y614;Q9NVR7;Q9UKT4;Q9Y4P9;P78559;P42025;Q6PGN9;O00399;Q7Z7K6;Q6ZU80;Q13233;O14604;Q9ULD2;P63172;O00522;Q5BJF6;Q9Y2J2;P11137;Q5T124;Q5UIP0;Q9H4H8;O94811;Q8N157;Q9C0C2;O95996;Q66JM3;P50995;Q9Y5Y2;P30622;O75122;O60299;P29966;Q15628;Q68DK2;Q9NVD7;Q02241;Q9C099;Q9BYV8;Q8TAP9;P08670;P27816;Q9BUZ4;Q8IX90;Q08AE8;Q8N3F8;Q92797;Q8IWC1;Q92547;Q9Y2I6;Q8WWW0;P50748;P36405;Q96ED9;Q8TF74;Q14790;P54840;P63313;Q8TDR0;Q99996;Q13409;

Q96PY6;Q96DB5;Q14244;Q96CS2;Q8NHQ1;O95271;P62328;Q717R9;Q9NYZ3;Q5TZA2;Q99550;Q9NR09;Q9BXW4;Q14019;Q6IN85;Q12798;Q9Y448;Q16658;Q8WWK9;P11532;Q9BZF9;O60504;Q12873;P63167;Q8IZT6;Q9BVN2;Q96KG9;Q9BSJ2;Q9Y6F1;Q08AG7;P0CG35;Q7Z460;P07737;Q9UHD8;P06396;Q8TES7;Q674X7;Q9Y2Y0;Q14CM0;Q96JN8;O95613;O15182;P23528;O15078;Q96GE4;Q96RT7;Q9H8V3;Q13045;O94927;Q49MP5;Q96JE9;P54257;O75154;Q8N4C6;Q076095;Q9C0H9;Q86X95;P04264;Q5VU43;Q9UPY8;Q14194;Q9UJP4;Q6Q759;O43663;Q86WH2;O00401;Q9H816;Q9P270;Q96FT9;Q8NF91;Q15654;Q96EY5;A8K8P3;Q16204;Q8IWN7;Q1MSJ5;Q9UBK9;Q92624;Q9H204;Q92556;P10916;Q9Y615;Q6ZU15;Q8WUM4;Q96BD8;Q8TDZ2;Q9NS23;O14965;Q9NP97;Q1W6H9;Q495M9;Q8WW24;Q6UVJ0;Q5SW79;Q76N32;Q9Y3D0;P04792;Q15650;P60510;Q96T76;Q92834;Q6DKK2;O75506;Q6IQ23;Q8WVK7;Q13257;Q9UNH5;Q9H0B6;P49454;Q9NPA3;Q9UJC3;O43303;Q9Y3A5;Q9H568;Q96NB1;O75146;Q07866;Q14839;Q96M02;Q9BYD9;Q9UPA5;Q6EMB2;Q9Y573;Q9UBF0;Q9H7T9;Q9UBF9;Q9UPV0;Q96MT8;Q96QF0;Q13561;P61586;O00444;P17987;Q9BV73}

4859 Pathogen[ Q85601] interacts with 434 human

partners: {Q53E24;Q99569;Q9H492;Q8NHQ1;Q5VYK3;Q5SZL2;P61163;O00401;Q7Z6E9;O14639;P49454;Q96M02;O75161;O15511;Q96JM3;Q6PGN9;Q9H7T9;Q15643;Q13409;Q8WX93;Q8N137;Q96T76;Q9H4X1;Q92614;P27816;Q9NZU7;Q9UJW0;P68133;Q9Y2J2;P16157;Q9NVD7;Q9NP97;Q8TDR0;Q7Z7K6;P06396;P62081;O75154;O75112;Q6UVJ0;Q15834;Q02241;Q9NQW6;O94986;Q15154;P51808;P36405;Q8N8E3;Q15398;Q13884;Q86VS8;Q96JP2;O95684;Q14008;Q6IN85;Q8WWK9;P46060;Q14194;Q6Q759;O15265;Q92547;P62714;O60437;Q92558;Q2M2Z5;Q9Y5K6;P17661;Q9H6D7;Q9BT25;Q2V2M9;O15182;Q99871;Q9NSQ7;Q9Y3D0;Q96RT8;Q9Y613;Q8TDY3;O95166;Q9UI95;Q5MIZ7;Q14244;Q9UBP0;O95714;P08670;P35579;Q96PY6;Q12798;Q8WWW0;Q9P258;Q96IK1;P50995;Q9BX66;Q6NZ67;Q96SN8;Q00005;Q9Y283;O75935;Q5TD94;Q7Z4H7;Q9UKT4;P78406;O60308;Q14790;Q9BZF9;Q9NVX0;A8MVW5;P18848;Q15654;Q8NHV4;Q9NWB7;Q9NY27;Q9UMS4;P35080;Q9H0R8;Q8TF74;P30622;Q49MG5;Q9BYD9;Q9Y2Y0;Q9P1Y5;Q9UKK3;Q7L5Y9;Q9Y3A5;Q9HC77;Q9BVN2;Q9NZJ0;Q66K74;O43264;Q14204;Q53HL2;Q9P209;Q9BXS6;Q13045;Q9H1H9;O15083;Q9C099;Q6IQ23;P11532;Q8IZS6;O15078;O00151;O15392;P11171;Q92834;Q5BJF6;Q9Y2I6;Q9NS23;Q14203;Q6ZP65;Q01082;P17987;Q96CW5;Q96EA4;Q53HC0;Q9ULW0;P41002;P52565;P0CG34;Q9BT92;Q96JJ3;Q8IZT6;P63172;O43303;Q9BTE1;Q9BZV1;Q6P2H3;Q8WUW1;Q9BQ89;Q9BR76;A6NKF1;P80723;Q96R06;P59998;Q9UJP4;Q96FI4;Q12834;Q8TC94;Q5JTW2;O96015;Q8TEP8;Q13257;Q12840;O43663;P07737;P60709;P23258;Q8TAP9;O14757;Q96ST8;P15924;Q76KD6;Q9BXF9;O43516;Q13137;Q9NRR3;O75122;Q9UNH5;Q13515;P30305;O14965;Q9Y266;Q9BAD1;Q9UPV0;Q9BXW4;Q86XR8;Q96G2C0;Q96Q89;Q96LK0;Q9BSJ2;Q9BW27;Q9Y6F1;Q92644;Q8WW24;Q9Y6Y0;Q9NXX0;Q15650;Q15555;Q6959;Q6P597;Q86SQ7;O75665;P50991;Q9H9H5;Q15013;O00423;Q9Y448;Q76N32;O94811;Q9UGJ1;P14635;Q8TES7;Q8IXJ6;P04264;Q15124;Q13042;Q9BV73;Q96M29;Q8IZW8;Q9NQ7;P63261;Q08J23;P42768;Q96G01;Q12873;Q9Y6N9;Q5VT06;Q9C0F1;Q9BRK4;P09972;Q6DKK2;Q68DX3;Q9UHI6;Q15691;O75347;O60447;Q9UPA5;Q15058;Q8N3V7;P46939;Q15051;Q8TC76;P42704;Q13425;Q96MT8;Q96BD8;Q9Y6D9;Q9UJT9;P50570;Q5T5Y3;Q15942;Q1MSJ5;Q5UIP0;Q9BW30;P54105;O14576;Q8IVI9;Q86VQ0;Q8TD16;Q3KQU3;Q96B97;Q9BYV8;Q7Z7A1;Q9Y281;Q99615;O14613;A6NK89;Q5TB80;Q9NYZ3;Q99550;O00399;P60673;Q9NXG0;Q9BVA0;Q9NPA3;Q01201;Q8IW35;P06748;Q99689;P61586;Q14315;P50613;Q9H4H8;O94927;Q2M2Z4;Q9C0C2;Q69YQ0;P29966;Q68DK2;P67775;P29474;Q3SYG4;Q15628;Q8TDG2;Q8IX90;O99596;Q92797;Q14980;Q96IF1;Q8IWC1;Q5JR59;P50748;Q8TAP6;Q9Y615;Q8WVK7;O76095;Q16204;Q99996;Q9BPU9;P07197;Q8WYJ6;Q5VU43;Q96CS2;P60953;P60510;P62328;Q9BTV5;Q9NRI5;Q5TZA2;O43189;Q9NR09;Q8WUM4;P04792;Q9Y5Y2;Q13432;Q7Z460;O60504;Q5SW79;P54840;P0CG35;Q96KG9;O00291;Q96TC7;Q08AG7;Q9H9E1;Q92597;Q8N3F8;P78559;Q674X7;Q13233;P04406;Q96JN8;O95613;P23528;Q8N0Z3;O43379;Q8N4C6;Q8IZP0;P48643;Q9HBL0;Q9NXR1;Q8N0Z2;O95271;Q9UPY8;Q9BT04;Q9NXX95;Q96K30;Q6P582;Q86WH2;Q9H816;Q9UH77;Q9UBK9;Q9P270;Q8NF91;Q96EY5;A8K8P3;Q96ED9;Q9C0H6;Q14511;Q6P1N0;Q9C0D2;Q9H204;Q8N9B5;Q9GZM8;Q6QNY1;Q9Y237;P24941;Q8TF09;P62736;P42025;Q1W6H9;Q96AQ6;P63167;Q07866;O14604;O00139;O75410;Q9Y224;Q9H0B6;Q9UJT2;Q495M9;Q9ULD2;Q96N16;Q68CZ6;Q96DB5;O15144;Q5FBB7;Q86X95;P51955;O43805;O95198;P54274;Q8IY31;Q8NA72;O43236;Q96NB1;Q14839;O95359;Q8IYX8;Q96RT7;O60299;Q96QF0;Q13561;O15061;P41208;P63313}

4860 Pathogen[ P14079] interacts with 590 human

partners: {Q02952;Q15691;Q9UKA4;Q14980;Q9H1X1;Q9H204;Q8TF09;Q2M2Z5;O43516;Q9P0N5;O75112;P52565;P54274;P16452;Q9Y4P9;Q9BZ68;Q9NQW6;O75161;Q8NA72;Q9Y2J2;P35579;Q9H7T9;P48643;Q8TC94;O95166;Q9BW27;O95425;Q68DX3;Q5TZA2;P09327;Q96K30;Q9UPY8;Q6XZF7;Q96EY5;O14613;O00291;P63261;Q9Y614;Q9BTV5;O75146;Q6UVJ0;Q5JQC9;Q3KQU3;Q5T124;A6NL28;P63172;P54257;Q9NWB7;O95876;Q68DK2;Q08AD1;Q99996;Q9H939;Q8IY31;Q9UJC3;Q9NS23;P0CG34;Q6IQ23;Q9NPA3;Q9UKT4;Q9NRR3;Q8TEP8;P11532;Q7Z460;P51808;Q8IX90;O15553;P11171;Q6ZMV9;Q8TDZ2;Q9BVN2;Q07866;O95684;Q9P209;O95359;Q9H4H8;Q8WWL2;P07951;P52564;Q96R06;O43597;Q92614;Q01082;O95271;Q9NXX95;Q96FJ2;P50995;Q8IZW8;Q86VS8;Q9Y237;Q16658;Q96GE4;Q8N9B5;Q9H492;Q96GX1;Q92558;Q9NR12;Q9NZ32;A6NK89;Q12840;Q9UI47;P15924;Q9NRR8;Q8N0X2;O94986;O76095;O15231;P47756;Q99871;Q96ED9;Q15013;Q8N157;Q8WX93;Q66K74;O14604;Q9NYZ3;Q92556;Q9UGJ1;Q68CZ1;O14639;Q02241;P50991;Q8N336;Q9Y6D5;Q9NVX0;Q14204;Q9NXG0;P26038;Q5JTW2;Q92834;Q9Y2Y0;Q70YC5;Q66GS9;O15392;Q16585;P09972;Q717R9;Q9BFX5;Q9UPA5;Q1MSJ5;P07737;Q96ST8;P42704;Q9Y266;Q8N8E3;P46060;Q9BXF9;Q6Q759;Q92624;O95922;Q9UBF9;Q8IZP0;Q9NRI5;Q6P582;Q8N3I7;Q7Z4S6;P10916;Q641N0;P68363;Q9BV73;Q14244;Q9NY27;A8MVW5;P35080;Q32MZ4;Q9BSK0;Q1W6H9;Q9Y615;Q9ULW0;O60437;Q8N3F8;Q9Y3D0;Q13045;P50990;Q9Y4F9;O60504;P57679;P16157;O95954;Q7L5Y9;Q9Y3A5;Q96B97;Q8TF74;Q14847;O00423;Q9BZV1;Q15124;Q9NVR7;O00399;A8K8P3;O00151;Q96M29;Q86UK5;Q8TAP6;P60673;Q9UJW0;Q96JJ3;Q92597;Q76KD6;Q76N32;Q9UHI6;Q9Y448;Q9H9H5;O43379;Q14118;Q13424;Q69YQ0;Q9Y4G6;Q5VYK3;Q9C0H9;Q9UKK3;Q1Y4R7;Q96BJ8;Q6ZU80;Q9BUZ4;Q8IWN7;Q9BXS6;Q96N16;P50552;Q5FBB7;P46939;Q96GD0;Q96LK0;Q12873;Q9Y613;Q9GZS0;P50570;Q86WH2;Q01201;Q5TD94;Q9NP97;Q8N960;Q9NR09;P35611;Q9UKI2;Q92797;O95198;Q5SZL2;Q08AG7;O15061;P10911;Q8TEW0;O75506;O15145;Q9HBL0;Q16204;Q96M02;Q6NZY7;Q15149;Q96IK1;O15511;Q9H9E1;P68032;O15066;P50613;Q8TDY3;Q9BTE1;Q08AE8;P56715;A6PVC2;Q43189;P78559;Q9NQ7;Q8LVI9;P36405;Q9C0C2;Q92629;O75952;Q99661;O43663;Q8WYJ6;Q5BJF6;Q7Z6E9;Q5MIZ7;Q15814;Q16586;P14635;Q9UMS4;Q14315;Q9H2C0;Q9UPM9;P51955;Q14790;Q9689;Q8NHV4;Q9H2D6;O00519;Q00005;Q9Y6U3;Q2M3G4;Q8N4C6;Q9BQ89;Q96IF1;P23528;Q96Q89;P29966;Q5VT06;Q8NBT0;Q86XW9;P07197;Q8WUM4;Q14093;O60610;Q9UI46;P28289;Q05BV3;Q99426;O60282;Q7Z4L9;Q8IWC1;Q96RT8;P61158;P17987;O95996;Q1



2798;Q13042;O00139;Q15555;Q15058;P63267;P41002;Q13257;P62328;Q96EA4;Q8TAM2;Q99569;Q96QF0;Q9UJZ1;Q8WVK7;P23258;Q96JM3;O94811;Q9H1H9;Q96AC1;Q8N3V7;Q9UBK9;Q96RT7;Q9H6D7;Q8WXH0;P35663;P61586;O43294;Q9Y5Y2;Q9Y6Y0;P60709;Q9H8V3;Q8N841;Q08J23;Q96AQ6;Q13326;P37198;Q96FI4;Q9H0R8;Q9BPU9;A6NKF1;Q9P258;Q15834;O43903;Q14247;Q13409;Q13561;Q8TCU4;O43264;Q9P2L0;Q96FG2;Q14194;Q49MG5;Q9BR76;Q9Y281;P11277;Q95SW79;O15083;Q92817;Q9Y4F5;Q8N0Z3;P06748;Q9BSJ2;Q62P65;O43303;Q8NEM0;Q9C0F1;Q9NZ20;Q9C099;Q6DKK2;Q13137;Q96LD1;P61163;Q9GZM8;Q8WW24;Q96G01;Q5T5Y3;Q9UFE4;Q96JE9;O75366;Q96DB5;P0CG35;Q6PGN9;Q8IXJ6;Q5TB80;Q9UH77;Q9ULD2;Q8N0Z2;Q53HL2;Q68CL5;Q00587;Q969V4;P62081;Q8WWK9;Q86Y91;Q8TAP9;Q86SQ7;Q6IN85;P41208;Q9Y5K6;Q13432;Q8TC44;Q9Y6N9;Q5T7B8;Q9NQS7;Q8TES7;Q14839;Q92547;Q9P270;Q05682;Q9BZF9;Q8TDR0;P78406;O95613;Q9Y283;Q9C0H6;Q15051;O75410;P63167;Q9P1Y5;Q8TC76;Q6ZMW3;P60510;Q9BT92;O15078;Q495M9;Q6EMB2;Q9BW30;Q9UIF3;O15265;O60299;Q8WUW1;Q5BKY1;Q9P2K1;Q99439;Q13515;P42025;P59998;Q7Z4H7;P49454;Q9NQ8;Q9NZJ0;Q8N137;O75154;Q9BT25;P08670;O15182;Q99615;O75347;Q6P2H3;P30305;Q8NHQ1;P49023;Q6NZ67;Q5JR59;Q9UJP4;P49773;P04264;P11137;Q68CZ6;Q9NSK0;P80723;O75665;Q2V2M9;P58107;Q15154;Q9UJT9;Q3SYG4;O14576;Q8NF91;Q8IZS6;Q15650;Q86XR8;P04792;Q9NXR1;P50748;Q9UEY8;Q9GZN1;O96015;P17661;O95235;P49368;Q5T6F0;Q9BX66;P54840;Q9BY60;Q9Y2I6;Q13813;Q96TC7;Q5UIP0;P54105;Q96BD8;Q86VQ0;Q9BVA0;O75122;Q32P44;O14965;P02549;Q9H0B6;Q9UPY6;Q9NVD7;Q9Y573;Q9BRK4;Q8IYX8;Q6QNY1;O75935;Q86X95;Q9H568;Q9C0D2;Q9Y224;Q9NQ7;Q9HC77;P63313;Q15628;Q9H3Q1;O15259;Q96FT9;Q8IW35;Q9H816;Q9BXW4;Q96SN8;Q8WWW0;P68133;Q8TD16;Q9NXB0;Q96T76;Q9BYV8;Q8TDG2;Q6IQ19;Q9Y6F1;Q8NHR9;Q14203;O15144;Q9UJT2;Q8IZT6;P27816;Q9NZU7;P35241;Q9P0K7;Q9UNH5;O60308;O43805;Q674X7;Q53EZ4;Q99550;Q14019;Q7Z7A1;Q8NCR6;Q15643;O00522;O43236;Q6P597;O94927;Q7Z7K6;Q5VU43;P30622;Q96LZ7;Q96CW5;Q9UPV0;Q9BYD9;P42768;Q96NB1;P10636;O00401;Q96KG9;Q14008;Q9UI08;P04406;Q8WVJ2;Q9NSN8;Q9BT04;Q9BYX7;Q15942;Q15398;Q8IUZ0;Q96CS2}

4861

Pathogen[ P03383] interacts with 307 human

partners: {Q14244;Q7Z7A1;Q9BRK4;Q13257;P15924;P41002;Q9Y2Y0;Q9NQS7;Q8TC76;P49454;P50995;Q8TF74;Q8N0Z3;Q86XR8;Q5JR59;Q32M24;O14757;Q96T76;Q9H4X1;Q7Z460;Q14839;Q6UVJ0;Q9Y281;P35080;Q9UJW0;Q9BSJ2;Q96TC7;P06748;Q1MSJ5;Q96BD8;P29474;Q68DK2;Q15051;Q02241;O94986;Q13515;Q9NWB7;Q14008;P51808;Q9NZJ0;Q15691;Q13884;Q13233;Q96QF0;O95684;Q8IY31;Q5UIP0;Q8WWK9;O14639;P54105;Q9BSK0;P08670;Q15013;O15511;P17661;Q9NVX0;Q15650;O43264;Q5FBB7;Q96FJ2;Q9NRI5;Q9UI95;Q8TDR0;Q9P258;O43236;Q5VYK3;P42025;Q9BXS6;P63172;Q14203;Q6NZ67;Q96SN8;Q00005;O75410;Q7Z4H7;Q96AQ6;P78406;O94811;O60299;Q99689;Q9BZF9;Q96CW5;O43303;P60953;A8MVW5;P41208;Q8NHV4;P62328;Q9NX95;Q9BV73;P62714;Q92797;Q9H204;Q86WH2;Q9UHI6;Q9BZV1;P09972;Q9HC77;Q5TD94;Q12798;Q3KQU3;P63313;Q9H0B6;Q96M29;Q9UKT4;P04792;Q9C0C2;P67775;Q9H2C0;O43189;Q96K30;Q7Z7K6;Q92597;O15061;Q96EA4;Q13042;P07737;Q13432;P14635;Q9Y3D0;Q5VT06;Q96MT8;P46939;Q08AG7;Q92558;Q9R06;Q9BQ89;Q96DB5;Q9C0F1;Q15654;Q8TES7;A6NKF1;Q9H1H9;A8K8P3;Q8TEP8;Q5VU43;Q12834;Q6P1N0;Q76KD6;Q6PGN9;O43516;Q13137;O60308;O00401;Q99871;Q15643;Q5TZA2;Q9Y613;Q96NB1;O00291;Q5TB80;Q12873;Q96CS2;Q2M2Z5;Q9H816;P27816;Q53HL2;P59998;O94927;P62081;Q9BW27;Q9Y6Y0;Q9NXB0;Q66GS9;Q96N16;Q86SQ7;P50613;Q9H9H5;Q86VQ0;O75347;P61586;O15265;O15078;P24941;Q9NRR3;Q9NP97;Q9UNH5;Q14511;Q9P1Y5;P07192;Q9UJT2;Q08J23;Q6DKK2;Q9UH77;Q68CZ6;P04406;P0CG35;Q15154;Q01201;Q70YC5;P29966;Q9BT92;Q99615;P42768;Q8WVK7;P11532;Q8WW24;Q96Q89;Q9BYV8;Q9BT25;Q86VS8;Q9NYZ3;O75935;Q07866;Q8N0Z2;Q5BJF6;Q96ED9;Q9H4H8;Q6IN85;Q9Y266;Q9Y3A5;P04264;Q5MIZ7;O14965;Q3SYG4;Q15628;Q8IX90;Q14980;Q96ST8;Q5T5Y3;Q8IWCL;Q6P582;Q9UKK3;Q9UPV0;Q8TAP6;Q9NY27;Q96PY6;Q9P209;Q717R9;Q6Q759;Q075161;Q9NR09;Q08AD1;Q8N9B5;Q68DX3;Q9Y448;Q8N137;P42704;Q8WUM4;P80723;Q9H6D7;O60504;Q5SW79;Q99996;P54840;P35579;P78559;Q8N3V7;Q8TF09;Q8NA72;P23528;Q9ULW0;O95613;Q13561;Q9C099;Q13045;Q9H7T9;Q00587;O43663;Q49MG5;P37198;P18848;Q8N4C6;O76095;Q92547;Q86X95;Q6P2H3;Q8N8E3;O95271;Q92624;O15083;Q9UBK9;Q9P270;O60437;Q9Y4P9;P63167;Q9C0H9;Q8NCR6;Q9C0D2;O75665;Q02952;Q9BT04;Q15834;O14604;Q96EY5;A6NKR8;Q9NPA3;Q53EZ4;Q9UPY8;Q53HC0;O75154;P60510;Q9Y615;Q9UMS4;P54274;Q9Y224;Q8NHQ1;Q13425;Q9BVN2;Q8TAP9;Q1W6H9;P06396;Q9Y6D9;P0CG34;Q6QNY1;Q8IW35;P50748}

4862

Pathogen[ P03410] interacts with 601 human

partners: {Q15650;O15511;Q9UJT2;Q96AQ6;Q9BVN2;Q9UKT4;Q96M02;Q9Y6G9;O95684;Q96LZ7;Q14CM0;Q8IX90;O75665;Q7Z460;P62714;Q86Y91;Q14204;Q9UH77;Q96TC7;O15392;Q8NHR9;Q8IXJ6;Q9Y573;Q9BW27;Q717R9;Q8IZS6;Q9Y4R7;Q96Q89;O00519;P17987;Q8WVJ2;O75154;Q86VQ0;Q8N960;Q9H4X1;Q13137;Q96FI4;Q5JR59;Q9UI95;Q6NYC8;Q6ZMW3;Q12873;Q8IWCL;Q68CL5;P49368;Q9UJZ3;P15924;P51808;Q96T76;Q15058;O95359;Q6Q759;P11137;Q08AD1;Q9C0H6;Q9UPY6;P62736;Q9UI08;A6NL28;Q16658;Q9UEY8;Q07866;P48643;Q96NB1;Q13409;P62328;P30622;Q8TDG2;Q9H6D7;Q9Y614;Q6QNY1;Q8TEP8;Q96JM3;P35080;Q9H816;O43903;Q2M3G4;Q5MIZ7;Q9UBF9;Q9UKA4;P50995;P10916;Q8TC76;Q9NP97;Q13561;P47756;Q8N3V7;P27816;P17661;O60610;O43597;Q9H0B6;Q96DB5;Q9Y2I6;O00139;O43303;Q66GS9;O15061;Q9NXR1;Q9Y4P9;Q15398;Q9HC77;Q8TF09;Q9H7T9;Q99996;Q96LK0;Q9BXF9;Q9Y615;P54840;Q9GZM8;Q9H329;Q15154;Q9UI46;P60510;Q53HL2;P04264;Q9NZ32;P54105;O15259;Q96K30;Q32P44;Q9H1H9;Q08AE8;Q3SYG4;Q8TDZ2;P54274;Q495M9;Q96FT9;O43516;P16157;Q7Z7A1;P0CG35;Q8IUZ0;Q8NCR6;P18848;Q8N0X2;Q92614;Q96RY7;P06396;Q05682;P0CG34;Q14019;Q9P1Y5;O60282;Q6UVJ0;Q9Y224;O60299;Q7Z4S6;Q15013;Q7Z4L9;P11532;Q9C0C2;Q8TAM2;Q8WWK9;Q14008;Q96SN8;Q9NRR3;Q8NBT0;O94811;Q92558;O95954;Q9GZN1;Q5JQC9;Q9BSK0;P58107;P36405;O15182;Q5BKY1;Q13425;P28289;P63172;Q8IVI9;O15145;Q5VYK3;Q9NSK0;O00401;Q5TD94;P50748;Q13515;Q9NS23;O14639;P59998;Q9H939;O43294;Q9Y6Y0;Q9C0D2;O00399;P16452;Q69YQ0;P35579;P04792;Q9UKI2;Q15124;O75161;Q8TCU4;P78406;P63167;Q12798;Q9P209;P42768;P50570;Q00587;Q9UJW0;Q96N16;Q8N137;Q86VS8;Q9UIF3;Q9Y283;Q15814;O00291;Q32M24;Q8N336;Q9NYZ3;P06748;Q8TCX1;Q9UBK9;Q6DKK2;Q9Y5Y2;Q9H1X1;Q9UNH5;Q9Y6U3;Q9H987;Q13233;Q96R06;Q9H3Q1;Q96JE9;Q6ZU15;Q13045;Q6NKY1;Q99615;Q9BXS6;Q8TD16;Q9NQW6;Q12840;Q8TAP9;Q6P597;Q8IYX8;P02549;O75146;Q9BYV8;P50613;Q68CZ6;Q9H204;P61163;Q16585;Q01201;Q96CS2;Q9UFE4;P41002;Q9Y6F1;Q9BTV5;Q13884;O43264;O15231;Q9BZV1;Q8WUW1;Q8IZT6;Q7Z7K6;P49454;Q9NQY0;Q9Y5K6;O14965;Q96EA4;Q15654;Q96IF1;Q96GX1;O75952;O95166;P11171;Q96FG2;Q96GD0;Q5T5Y3;O43805;Q9NR09;Q15628;O95425;Q8NHV4;O60308;O60333;P60673;Q92624;Q8N0Z3;Q9BT04;Q9BYD9;Q92556;Q8IZW8;P29474;Q8N3F8;O14576;Q9H9H5;Q9BT92;Q9Y448;P09972;O94986;P50552;Q14315;Q14980;Q6IQ19;Q8TAP6;Q6ZMV9;P14635;P07951;P



49773;Q15555;Q14511;Q6P2H3;Q96KG9;Q15691;Q13042;Q9NVR7;Q9H0R8;P26038;O43236;O95996;Q92797;Q9H492;P35663;O43491;Q9NPE6;P50990;Q9BW30;Q9BPU9;P61586;Q5SZL2;Q15942;Q9BZ68;Q96GE4;P62081;Q8IY31;Q99439;Q9NYL9;Q96ED9;Q9BPX5;P24941;Q9NWB7;Q9UPA5;Q9ULD2;O14613;Q5TZ A2;Q95271;O14604;Q9Y2J2;Q9BTE1;Q674X7;O95198;Q9BXW4;Q9Y6N9;Q5VU43;P46939;Q9NVX0;Q8N157;Q99550;Q9P0N5;P42704;Q96BJ8;Q14847;A6NK89;Q9HBL0;Q9Y613;O43379;O15078;O75506;Q96G01;Q6IN85;Q8N3I7;Q9P2K1;O60447;Q8WVK7;Q9UPM9;Q6XZF7;Q92834;O95876;Q8WYJ6;Q15834;Q9BVA1;Q96ST8;Q8N4C6;Q86SQ7;A8MVW5;Q9Y6D5;O14757;Q9BR76;Q14118;P68133;O75410;Q9Y4G6;Q8WWW0;Q5T6F0;Q5BJF6;O75935;Q9UPY8;Q14093;Q9NZ20;Q9UHD8;Q9NZU7;Q53EZ4;Q6ZU80;Q86WH2;Q2V2M9;Q8IZP0;Q66K74;Q9UJZ1;O60504;Q9BQ89;Q9Y281;Q9BSJ2;O00522;Q86X95;P04406;Q8WWL2;O94927;Q15051;P08670;P54257;Q12834;Q92547;P78559;P10636;Q3KQU3;Q8NA72;Q8IW35;Q9H568;Q96JN8;Q5FB B7;Q8TC94;Q15643;Q08J23;Q96QF0;P60953;P42025;O75347;Q9NRI5;Q96RT8;Q9BZF9;Q8TC44;O43189;Q00005;P23258;Q8N9B5;Q9ULW0;P68363;Q2M2Z5;Q5TB80;Q9UMS4;Q9UI47;O75112;Q9HGB6;Q08AG7;Q9BY60;Q1MSJ5;Q96B97;Q8TEW0;Q9H2C0;P80723;Q9UPV0;O95922;Q9UKK3;Q16204;P63261;P33176;Q9NVD7;Q9NXB0;O15265;Q92597;Q01082;Q9Y266;Q8N0Z2;Q86XW9;O15144;Q14247;Q6NZ67;Q9UJP4;Q6ZP65;P35241;Q02952;Q96EY5;O76095;Q92629;Q9C099;Q9NQC8;Q14194;Q96CW5;Q5UIP0;Q9H8V3;O0151;Q9C0H9;Q6PGN9;A6NKF1;Q9P270;Q99871;Q96BD8;Q9BZ67;Q8TDR0;Q13326;P23528;P27105;Q9N XG0;Q76N32;Q13424;P30305;O00423;Q96JP2;Q9UJT9;Q96RT7;Q15149;Q9Y4F5;Q9P2L0;Q9H4H8;Q5SW 79;Q8N841;Q68CZ1;A6PVC2;O95613;Q13432;Q99426;Q9C0F1;Q9Y2Y0;Q8TES7;Q68DX3;P52565;P67775;Q9Y3D0;Q8IWN7;Q9GZS0;Q6P582;Q13813;Q9P258;Q9Y3A5;Q9Y237;Q1W6H9;P41208;Q14839;Q9UHI6;Q8WUM4;Q14244;Q68DK2;Q92817;P63313;Q8TDY3;O75122;Q969V4;P07737;Q7L5Y9;P56715;Q8WXH0;Q96M29;Q9BV73;Q76KD6;Q96JJ3;Q9BT25;P35611;Q9NRR8;Q9NPA3;Q8WX93;Q49MG5;P11277;O60437;Q9H2D6;P29966;Q05BV3;Q8TF74;Q9BX66;Q0VAK6;Q70YC5;Q6P1N0;Q9H9E1;Q7Z4H7;Q9UGJ1;O43237;Q6 EMB2;Q5JTW2;P46060;A8K8P3;Q6IQ23;Q9NY27;Q5T7B8;P60709;Q9NX95;Q9BVA0;Q9P0K7;Q8N8E3;P50991;P07197;O96015;Q14203;Q5QJ74;Q96LD1;Q8NEM0;Q02241;O43663;O15083;Q86UK5;Q5VT06;Q13257;Q99569;Q9NQ57;Q9NZJ0;Q96IK1;Q99689;Q5T124;Q8N9F1}

4863 Pathogen[ P14075] interacts with 319 human partners: {P60953;P42704;Q92797;Q96MT8;Q99871;Q3SYG4;P29474;Q96AQ6;Q14511;P0CG34;Q15643;Q68DX3;P54105;O43303;Q9H4X1;Q9NPP9;Q9BYV8;O94811;Q96EY5;Q6Q759;P11532;Q00005;Q9Y266;Q86X95;Q9Y2J2;Q6NZ67;Q13042;Q9H1H9;O15265;Q8N3V7;P24941;Q9H2C0;Q1W6H9;Q13884;O95684;Q6P582;Q9Y6D9;Q15051;Q02241;O43663;O15083;O75347;Q5VT06;Q5VU43;Q7Z4H7;O75410;O43236;P62328;Q5TD94;Q99615;O60308;Q49MG5;O76095;Q9UKT4;Q9NQ57;Q9Y224;Q9H7T9;A6NK89;P14635;Q5 MIZ7;Q96R06;Q01201;Q96N16;Q9BVN2;P80723;P51808;Q8WVK7;P78406;Q08AG7;Q8WUM4;Q96JE9;Q13425;Q86SQ7;A8MVW5;P50613;Q8NHV4;Q7Z460;P78559;P60510;Q14839;P42768;Q13561;Q9Y2Y0;Q8IY 31;A8K8P3;Q13257;Q68CZ6;Q9HC77;Q96TC7;Q8N336;P17661;Q13515;Q9BXS6;Q7L5Y9;Q9BT04;Q86VQ 0;P04792;Q96SN8;Q6UVJ0;Q8TF09;Q5TZA2;Q12798;P62081;Q8NHQ1;O15061;Q96BD8;Q9Y613;Q9UI95;P053HC0;P63172;P54840;Q96ST8;P63313;Q9BT92;Q9BT25;Q96GE4;O15511;Q8N0Z2;Q9NRI5;Q8TEP8;P07737;Q5JR59;Q00587;Q92624;P23528;Q76KD6;O43516;Q13137;O00291;Q9UPV0;Q9ULW0;Q9H204;P 50995;Q68DK2;Q9BW27;P54274;Q9UHI6;Q9Y6Y0;Q9NXB0;Q9UPY8;P04406;Q66GS9;Q02952;Q9C0F1;Q9 9996;O00401;Q9NY27;O15078;Q9H9H5;O14604;Q96EA4;Q15013;Q5SW79;Q8TDR0;O00139;Q5BJF6;Q6I N85;Q96FJ2;Q9P258;O75935;Q8TES7;P29966;O75161;Q86XR8;Q6IQ19;O60299;Q15650;P04264;Q9UB K9;O14965;Q96NB1;Q96K30;Q9NPA3;Q15834;Q3KQU3;Q6QNY1;P46939;Q86WH2;Q15691;O43189;Q9BV7 3;Q5TB80;Q6P2H3;Q5T5Y3;P37198;Q6NYC8;Q8N137;Q9H816;Q9C099;Q8TAP6;Q8TF74;Q96CS2;O14613;Q9Y4P9;Q9BPU9;P06396;Q9UH77;P35579;P06748;Q96DB5;Q5FBB7;P0CG35;P18848;Q9UMS4;O14639;P 61586;Q9H4H8;Q9NWB7;Q15654;O94986;P62714;Q9NRR3;P41208;Q15628;P67775;P08670;Q15154;Q 8IX90;Q7Z7K6;A6NKF1;Q8IWC1;Q9BQ89;Q53EZ4;Q9BR4;Q53HL2;Q6PGN9;P07197;Q9NVX0;P09972;Q9 6QF0;Q717R9;P50748;Q9NR09;P35080;Q96PY6;Q32MZ4;Q8WVK9;Q9BZF9;O60504;O94927;O75665;Q5U IP0;Q92558;Q92597;Q86VS8;Q8NCR6;O75154;O95613;Q9P209;Q14203;Q96M29;P59998;O60437;Q9BZ V1;Q07866;Q14008;Q8N4C6;P41002;Q9C0C2;Q08J23;Q9H0B6;Q9NYZ3;Q9C0H9;O43264;Q8TAP9;Q9NZJ 0;O95271;Q13233;Q9UPA5;Q9NX95;Q9UJW0;Q14980;Q1MSJ5;Q8N8E3;Q9P270;P49454;Q13432;Q9BSJ2;Q96IK1;Q92547;Q12873;Q9UNH5;Q9H6D7;Q9NRR8;Q9C0D2;Q96Q89;P27816;Q8N9B5;Q6P1N0;Q7Z7A1;Q9P1Y5;Q9Y448;P63167;P42025;Q70YC5;Q9Y281;O14757;Q12834;Q96CW5;P11171;Q2M2Z5;Q9UJT2;Q 96T76;Q13045;Q6DKK2;Q8TC76;Q96ED9;Q8NA72;Q8N0Z3;Q14244;Q9BSK0;Q8IW35;Q9UKK3;Q5VYK3;Q9 Y3D0;P15924;Q99689;Q08AD1;Q9Y3A5}

4864 Pathogen[ P0C206] interacts with 523 human partners: {O95271;Q9BPU9;Q9NQC7;Q96TC7;Q5JTW2;Q5SW79;O14604;Q8TC94;Q9NQC8;O15511;P0CG3 5;Q92597;Q9Y224;Q9UJT9;Q9UJZ1;O15182;Q9NPA3;Q68DK2;P0CG34;P48643;Q8N137;Q86XR8;Q9HBL0;P46939;Q08J23;Q9UMS4;Q86WH2;Q01082;Q14019;O75952;Q96M02;Q8N8E3;P60709;O95359;O94986;P17661;Q96DB5;P06396;Q9BVA0;Q5SZL2;Q92556;Q96SN8;P56715;Q9C099;Q9NPP9;Q9BXW4;Q9HC77;Q 9H7T9;Q86SQ7;Q14008;O14576;Q96Q89;Q13432;Q9H4X1;Q5UIP0;O60504;P60673;Q96ST8;P47756;O0 0291;O15061;Q9UBP0;Q5BJF6;O95684;Q15019;Q9BTE1;Q5JQC9;P62081;Q5TD94;Q8N3V7;Q9UPM9;Q9B T92;O43516;Q3SYG4;Q9Y6D9;Q8TAM2;Q8NA72;P62736;Q6IN85;Q9BR76;O75161;Q9ULW0;Q96RT7;Q08A D1;Q8IY31;P51955;Q9Y6N9;O75154;P54105;Q9NRR8;Q9BT04;Q9NVD7;Q14315;Q9C0D2;Q5TZA2;Q6P2H 3;Q96IF1;Q9UPA5;Q9NQW6;Q8TCU4;Q9BTV5;Q96CW5;Q13515;P50995;Q9H492;Q96B97;Q96JE9;P62328;Q2V2M9;Q9P2K1;P52565;Q99615;Q9BQ89;P63167;Q15691;O94811;Q9C0H6;Q9NRR3;Q13045;P04264;Q9NZ32;O14613;Q13137;P78559;P59998;Q8NCR6;Q5T5Y3;Q9UIF3;Q9Y614;Q9Y448;Q9BT25;Q96K30;O 15265;Q86VQ0;Q8WX93;Q96PY6;Q8IZW8;Q15654;O00444;Q8TF09;Q6QNY1;Q6P597;Q9NVR7;Q6UVJ0;Q9 H9E1;Q9Y5Y2;A8K8P3;Q9UPV0;Q99550;Q96JN8;Q6ZP65;P04792;Q8IZT6;P50991;P30305;Q9H816;Q5J R59;Q6PGN9;P49454;Q9UI08;Q99996;P17987;Q9UI47;Q01201;O60299;Q8N3I7;Q9H1H9;P67775;O151 45;P30622;Q9NZU7;Q96KG9;O43237;O95996;P10636;Q13257;Q14141;Q02241;Q14141;Q02241;Q13233;Q9GZM8;Q96N1 6;Q13409;Q8N9B5;O43236;P50461;Q8IX90;Q9UGJ1;Q66K74;Q15814;Q86VS8;Q9Y283;Q15124;Q9Y6F1;Q86XW9;Q92624;Q5T124;Q96ED9;P61586;Q9P1Y5;Q8TEP8;Q9NVX0;P61163;Q8IWC1;Q14244;O60308;Q9NX95;Q69YQ0;Q9UJP4;Q9Y6Y0;Q14839;Q99689;O75122;O60437;Q68CL5;P68133;Q86Y91;O95954;Q 9UJT2;Q8TAP6;O75440;Q99426;Q9UKT4;P54274;Q32MZ4;Q92797;Q8TEW0;P54840;P46060;Q96QF0;Q6 DKK2;Q6ZU15;Q13884;Q6ZU80;Q9BUZ4;P16157;P11137;O60447;Q8WUW1;A8MVW5;P27816;Q96BD8;Q5B KY1;A6NKF1;Q8WYJ6;Q2M2Z5;Q14204;Q9H0B6;Q717R9;Q8NF91;Q86X95;Q9UNH5;Q9H568;Q9Y4P9;Q6P1 N0;Q15650;O43379;Q9UFE4;Q8TF74;Q9Y3D0;Q7L5Y9;Q9UPY8;Q9UJW0;P50613;Q9NR09;O95613;Q9UKK

3;O15083;Q16658;Q9BZV1;Q8IWN7;P35080;Q8IZP0;Q13425;O75112;Q9Y6D5;P80723;P51808;O95922;Q9NWB7;P63261;Q6IQ19;Q96LK0;Q99569;Q96JP2;Q495M9;Q8IYX8;Q16204;Q96AQ6;Q8TDG2;Q15942;Q9Y6G9;Q7Z7K6;O43491;O00151;O15078;Q9NRI5;Q8WWW0;Q8IZS6;P16452;Q15834;Q96JJ3;Q66GS9;Q9H1X1;Q8N841;Q96CS2;O43663;P04406;Q8LW35;Q14790;Q92558;Q7Z4H7;Q5FBB7;Q9ULD2;Q2M3G4;Q5VT06;A6NK89;Q8N157;Q9BYV8;P35579;O00401;O94927;P62714;Q5VU43;O43294;Q9NY27;Q15628;Q53HL2;Q92614;Q9HJM3;Q49MG5;Q8TC76;Q9BV73;Q9NHV4;Q96FI4;O00399;O15392;O43597;Q12840;P60953;Q9NSK0;P23258;O00139;Q8IXU6;Q9NZJ0;Q9C0H9;Q9P258;Q9NQY0;O75665;O15144;Q9C0C2;Q8N336;Q13561;Q96T76;Q76N32;P36405;Q5VYK3;P29474;Q8WUM4;Q15013;Q9BX66;Q14194;Q9H0R8;P15924;Q53HC0;Q9Y237;Q6P582;Q9BXF9;Q9Y5K6;Q02952;P09972;Q7Z7A1;P49368;Q8WXH0;Q9NXG0;Q9H6D7;Q9Y613;Q15058;Q9Y3A5;Q99871;P41208;Q8WWW2;P11277;Q95198;Q96GD0;Q5T6F0;P63313;P78406;Q674X7;Q9H204;P42704;Q8N0Z3;Q8TDY3;Q9NXL1;Q9P270;Q96EA4;Q5MIZ7;O14639;Q6XZF7;Q6NYC8;P35663;Q9UHI6;Q8TAP9;Q96M29;Q9UBK9;Q16181;Q15555;Q70YC5;Q9P209;Q12798;P06748;P14635;Q9BYD9;Q9UJC3;P08670;P60510;Q9BXS6;P11532;Q1MSJ5;Q9NYZ3;O75347;Q9Y2Y0;Q9BSK0;O14965;Q14980;O43805;Q8N4C6;P42768;P07737;Q96MT8;Q7Z460;Q9C0F1;Q7Z6E9;Q9NS23;Q9BZF9;Q13424;Q9NQS7;Q14203;O75935;Q15154;Q6Q759;Q92547;Q9NXB0;P63172;Q3KQU3;Q13042;Q8NHQ1;Q15643;Q8TDZ2;P50748;Q15398;Q96IK1;O00423;Q96NB1;Q9BW19;Q96FT9;O43189;P23528;Q00005;P42025;Q15051;Q68DX3;Q8N0Z2;O95876;O43264;Q6IQ23;P24941;Q08AG7;Q8WWW9;Q8TD16;Q9BSJ2;Q68CZ6;Q9UH77;P18848;Q8N3F8;Q9Y615;Q9Y266;P41002;Q92834;Q6EMB2;Q5TB80;O95714;O96015;Q9H2C0;Q8N960;Q8IVI9;Q14511;O95166;Q12834;Q8WVK7;Q9Y2J2;Q9UI95;Q08AE8;P50570;Q6NZ67;P29966;Q9BW27;Q9BW30;Q96EY5;O00522;Q8WW24;Q9UKA4;P11171;Q12873;Q99986;O76095;Q07866;Q96LZ7;Q9H4H8;Q96GE4;Q9Y216;Q1W6H9;Q96G01;Q76KD6;Q9BY60;Q9Y281;P07197;Q9BVN2;Q8TDR0;Q9H9H5;O43303;Q00587;Q8TES7}

4865 Pathogen[ P03363] interacts with 556 human partners: {Q8TDR0;Q86X95;Q9BQ89;Q5BJF6;Q6ZMW3;Q9Y6N9;Q15654;Q08AE8;Q9Y6Y0;Q92547;O75410;Q9H816;Q9Y614;Q96EA4;Q86VS8;Q32MZ4;Q99615;Q5SZL2;A6NKF1;Q9Y2I6;P18848;Q9UDT6;Q15834;P11137;Q8IZP0;P29474;P46060;O75347;Q15051;Q8N3V7;Q96IK1;Q9H2D6;P46939;Q13042;P49454;O75161;Q8N0X2;Q96DB5;Q8NF91;Q7Z7K6;P07197;Q14244;Q7Z7A1;Q9H3S7;A8K8P3;P11277;Q9Y6D9;P56715;Q2M3G4;P63167;Q9HC77;Q6EMB2;Q9UNH5;Q96ED9;Q08J23;Q9H987;P62714;Q9H4X1;Q86VQ0;O95996;A6NL28;Q66K74;Q9UI47;Q76N32;Q8TAM2;P52565;Q9BYV8;Q8IVI9;Q9BX66;Q2VIQ3;O15061;Q5VT06;P02549;O14682;P60709;Q9NXG0;Q9UPY6;P35080;P33176;P0CG35;P78559;Q9BRK4;P16157;Q14194;P35579;Q9UHI6;Q99996;Q14247;O94811;Q96MT8;Q96BD8;P60673;O15078;Q9H492;Q9UJT9;Q02952;Q8NHV4;Q9GZS0;P62081;O43805;O60308;Q8NBT0;Q9Y3D0;Q1MSJ5;O75112;Q969V4;Q9NQW6;Q9BR76;Q66GS9;Q13561;P62328;O60437;Q8WWW9;O43303;Q14980;Q9Y266;Q96B97;P63313;Q9P2K1;Q00005;Q9BXW4;Q9UBF9;Q15691;Q96JP2;Q01082;O95684;Q9P582;P62736;Q14093;Q9UJW0;Q9Z6E9;Q9ULW0;Q14847;Q9H7T9;Q13045;Q92597;O43264;Q8TES7;Q99550;Q9H1X1;Q8NHQ1;O00399;O95922;Q9HC35;P09972;P50570;O60447;O95613;Q8NHR9;P42704;Q15398;O94986;P68363;Q9BPX5;Q9Y3A5;Q96FT4;O94967;Q14204;Q14CM0;P42768;Q9H6D7;Q02241;Q5BKY1;Q9P258;Q96K30;Q9BT25;P68133;Q9H4H8;Q96R03;Q9C099;Q53HL2;Q9Y613;Q00587;Q5VU43;Q8WVK7;Q8TAP6;Q9BXS6;Q96M02;Q96M29;P24941;Q8NHY3;P50748;Q96LK0;Q9Y4P9;Q96JN8;Q14839;Q8N336;Q5TD94;P41208;Q92558;Q49MG5;O75506;Q9UBK9;Q68DK2;Q9P209;Q7Z4S6;Q99569;Q96GE4;Q07866;Q14870;P06748;Q8WYJ6;Q8IX90;O00423;P41002;O43189;Q9NVA2;Q9Y4G6;P50995;Q92797;Q8N0Z2;Q96TC7;Q5FBB7;Q96IF1;Q9HCS5;Q8TEP8;Q13425;Q14019;P15924;Q8IWC1;Q6ZP65;P50991;Q6ZMV9;P54105;P06396;Q9NWB7;Q5JR59;Q8IZS6;O60282;P10911;Q9BZF9;Q5TZA2;Q8TDY3;Q13748;Q9HOR8;Q8NCR6;Q16204;Q5JTW2;O15144;P61163;Q6PGN9;A8MFW5;Q9BW30;Q9HOB6;Q96JM3;P30622;Q9UPY8;Q8IYM1;P27816;Q53HC0;Q717R9;Q9P0K7;Q96R06;Q5T6V0;Q5T124;Q53E24;P59998;Q68CZ6;Q8TF09;Q9BXF9;Q12798;Q9NZ32;Q92599;Q66T76;Q8N157;O94927;Q6DKK2;Q3SYG4;Q8WUM4;Q9NR09;P63172;Q15149;Q8IY31;Q9P1Y5;Q9UI08;Q9NSK0;Q99426;Q6XZF7;Q9UKK3;Q14511;P54274;Q9C0C2;Q13432;Q6IQ19;Q9NQS7;P11532;O00522;Q96RT8;Q9NVX0;Q32P44;Q9NZR1;Q9BPU9;Q9H939;P08670;Q96AQ6;Q9BZV1;P17661;Q15814;Q9H8G6;P11171;Q96KG9;Q96ST8;O75935;Q08AG7;Q5T7B8;Q5UIP0;P17987;Q9H9E1;P04406;Q9NZU7;O15265;Q7Z460;O14613;Q9UKT4;O95271;Q9BT92;Q8LZW8;Q9UHD8;Q92556;Q9UI95;Q8N841;Q9NYZ3;Q92624;Q5QJ74;Q674X7;Q6QNY1;Q2V2M9;Q96PQ7;O15143;P54840;Q9BT04;Q9Y615;Q6P2H3;Q6IN85;P0CG34;Q8WUW1;Q13257;O95198;Q9Y283;P23528;Q8WX93;Q9Y4F5;Q8N0Z3;Q9NVR7;Q86XW9;P60510;O43379;Q96NB1;Q96CS2;Q9P270;Q13884;P54257;P42025;Q99871;Q13409;Q495M9;P29966;Q96EY5;P51808;Q6ZU80;O76095;O75154;O15066;Q9C0H6;Q9NS23;P28289;Q9UPV0;Q92614;Q0VAK6;Q9GZNL;Q9HBL0;Q01201;O43491;Q15628;Q9BY60;Q12923;Q9BVN2;Q9NY27;Q9UPA5;Q9Y237;Q15013;Q8IWI3;Q9UIF3;O15182;Q96RT7;O95714;Q76KD6;O15083;Q9UJP4;Q8TC76;Q8IUZ0;Q86WH2;Q8TC94;O00401;A6NK89;Q68CL5;Q9NRI5;Q9UH77;Q70YC5;Q96JJ3;P63261;Q8WWW0;Q9UGJ1;Q9NQY0;Q9BTE1;Q9C0F1;Q9NYL9;Q8IYX8;P78406;Q92834;Q9Y5Y2;Q8IWN7;Q9NRR3;Q12873;P80723;O95359;O43516;Q6ZU15;Q15058;Q9H568;Q6P1N0;Q86XR8;O15259;Q9BYD9;Q96Q89;Q9H204;O75146;Q9Y224;O60333;Q12834;Q14008;Q96FT9;Q9Y2Y0;Q9Y448;Q9UMS4;Q8NA72;Q96AC1;O60662;Q9H1H9;Q8N4C6;P16452;Q8N8E3;Q9NVD7;Q9UI46;Q9NP97;Q1W6H9;O43663;Q9H2C0;Q9NPA3;Q9BUZ4;Q9NXL1;Q9NXB0;Q9C0D2;O14604;Q14141;P23258;O00139;P37198;Q9H329;Q99719;O60299;P04264;Q6NZ67;Q9NZJ0;Q8N3F8;Q86SQ7;Q6Q759;Q6NYC8;Q9NR12;Q13813;Q9ULD2;Q13137;Q96N16;O43237;Q9UJT2;Q8TD16;Q7Z4H7;Q5MIZ7;Q16658;P60953;Q05BV3;Q8TDG2;P48643;Q8WWW2;Q9P2Q2;Q5T890;Q15154;Q5TB80;Q15643;Q8TF74;O95166;P67775;Q92817;Q6IQ23;Q96FJ2;Q8IZT6;Q14203;Q9Y5K6;Q8N9B5;Q13233;P04792;Q2M225;O43236;Q9BSJ2;Q9NSN8;Q9Y2J2;Q9BFT5;Q14315;P35663;Q9BV73;Q9BSK0;Q15942;O00291;O15145;O14576;P58107;Q9BW27;Q8NEM0;Q9Y6F1;Q9NQC8;Q5VYK3;Q9Y573;Q12840;Q8TC44;Q8WW24;P07737;O14639;Q15555;Q96JE9;Q15650;Q13515;P10916;O15511;Q13424;Q3KQU3;Q8TAP9;P49368;Q68DX3;Q6UVJ0;O75665;Q99689;Q96CW5;Q69YQ0;Q96SN8;Q08AD1;Q9C0H9;Q3KQU0;Q9H9H5;O14757;Q8N137;Q9NX95;Q8N960;Q5T5Y3;Q5SW79;Q9Y281;Q9UJC3}

4866 [Cluster 443]GO:0042645+ cellular\_component [name] mitochondrial nucleoid [def]  
 "The region of a mitochondrion to which the DNA is confined." [GOC

4867 Pathogen[ Q2Q067] interacts with 17 human partners: {Q9BRT2;O00411;Q9Y2S7;Q9H5Q4;P38646;Q8WVM0;Q99551;O76031;P42704;Q00059;Q53G26;P54098;Q9UHN1;Q49AM1;Q04837;Q96EY1;Q96QE5}

4868 Pathogen[ P0C214] interacts with 20 human partners: {O00411;Q96QE5;Q9Y2S7;P54098;P34897;P42704;Q7L2E3;Q49AM1;P40939;O76031;Q0005

4869 9;P38646;Q53G26;Q9BRT2;Q8WVM0;Q04837;Q99551;Q96EY1;Q9H5Q4;Q9UHN1}  
 Pathogen[ P03346] interacts with 18 human  
 partners:{P54098;Q00059;Q7L2E3;Q9UHN1;O76031;P38646;Q9Y2S7;P42704;Q9H5Q4;O00411;Q99551;Q53G26;Q8WVM0;Q9BRT2;Q96QE5;Q04837;Q49AM1;Q96EY1}

4870 Pathogen[ Q85601] interacts with 18 human  
 partners:{Q9BRT2;Q9Y2S7;Q53G26;Q7L2E3;Q96QE5;Q00059;Q49AM1;Q99551;P54098;P42704;P38646;O76031;Q9H5Q4;Q8WVM0;Q04837;O00411;Q9UHN1;Q96EY1}

4871 Pathogen[ P14079] interacts with 19 human  
 partners:{Q04837;Q9BRT2;Q49AM1;Q7L2E3;P42704;P34897;Q00059;Q9Y2S7;O00411;P38646;Q9H5Q4;P54098;O76031;Q9UHN1;Q969P6;Q96EY1;P49411;Q99551;Q8WVM0}

4872 Pathogen[ P03383] interacts with 16 human  
 partners:{Q9UHN1;Q9Y2S7;P38646;Q00059;Q9H5Q4;Q99551;P54098;Q8WVM0;P42704;O76031;O00411;Q04837;Q49AM1;Q96EY1;Q96QE5;Q53G26}

4873 Pathogen[ P03410] interacts with 21 human  
 partners:{Q9Y2S7;Q53G26;P38646;Q49AM1;Q04837;P05141;Q00059;O00411;Q9BRT2;Q96QE5;O76031;P42704;Q7L2E3;Q9H5Q4;Q8WVM0;Q9UHN1;P54098;Q99551;Q96EY1;P34897;P49411}

4874 Pathogen[ P14075] interacts with 16 human  
 partners:{P42704;Q00059;Q9H5Q4;P54098;Q9Y2S7;Q53G26;P38646;O76031;O00411;Q49AM1;Q99551;Q9UHN1;Q8WVM0;Q04837;Q96QE5;Q96EY1}

4875 Pathogen[ P0C206] interacts with 19 human  
 partners:{Q49AM1;Q9UHN1;Q9BRT2;Q53G26;P54098;P34897;Q96QE5;Q8WVM0;P38646;Q99551;Q9H5Q4;Q04837;P42704;O76031;Q00059;Q96EY1;Q7L2E3;Q9Y2S7;O00411}

4876 Pathogen[ P03363] interacts with 19 human  
 partners:{O00411;Q9BRT2;P42704;Q49AM1;P54098;Q53G26;Q9NUL7;Q96QE5;P38646;Q00059;O76031;Q8WVM0;Q04837;Q9UHN1;Q7L2E3;Q96EY1;Q9Y2S7;Q99551;Q9H5Q4}

4877 [Cluster 444]GO:0031523+C cellular\_component [name] Myb complex [def] "A multisubunit complex consisting of Myb and other proteins that regulates site specific DNA replication, gene amplification and transcriptional repression." [PMID  
 4878 Pathogen[ Q2Q067] interacts with 1 human partners:{P10244}  
 4879 Pathogen[ P0C214] interacts with 1 human partners:{P10244}  
 4880 Pathogen[ P03346] interacts with 1 human partners:{P10244}  
 4881 Pathogen[ Q85601] interacts with 1 human partners:{P10244}  
 4882 Pathogen[ P14079] interacts with 1 human partners:{P10244}  
 4883 Pathogen[ P03383] interacts with 1 human partners:{P10244}  
 4884 Pathogen[ P03410] interacts with 1 human partners:{P10244}  
 4885 Pathogen[ P14075] interacts with 1 human partners:{P10244}  
 4886 Pathogen[ P0C206] interacts with 1 human partners:{P10244}  
 4887 Pathogen[ P03363] interacts with 1 human partners:{P10244}

4888 [Cluster 445]GO:0005788+C cellular\_component [name] endoplasmic reticulum lumen [def] "The volume enclosed by the membranes of the endoplasmic reticulum." [ISBN  
 4889 Pathogen[ Q2Q067] interacts with 10 human  
 partners:{Q15293;Q9UBS4;P27797;O14656;Q8WU39;Q96D15;P23284;Q96DZ1;Q86VP3;P14625}

4890 Pathogen[ P0C214] interacts with 13 human  
 partners:{P14625;O14656;P23284;Q86VP3;Q9UBS4;Q8NBJ7;Q96D15;P27797;Q96DZ1;Q8WU39;Q15293;O60613;P13667}

4891 Pathogen[ P03346] interacts with 15 human  
 partners:{P14625;Q96DZ1;O14656;Q99784;Q13438;Q9H173;P13667;Q96D15;Q8WU39;P27797;Q9UBS4;Q15293;Q8IWF2;Q86VP3;P23284}

4892 Pathogen[ Q85601] interacts with 10 human  
 partners:{Q15293;O60613;Q9UBS4;P27797;Q96D15;P23284;O14656;P14625;Q14257;Q86VP3}

4893 Pathogen[ P14079] interacts with 23 human  
 partners:{Q15293;Q8WU39;Q9BT09;P30040;Q8IVL6;Q9UBS4;Q96D15;O60613;Q96DZ1;Q9NYU1;O14656;Q9NYU2;Q86VP3;Q8NBJ7;Q969H8;Q8NBK3;P14625;Q9UNW1;Q8NBL1;Q9NWW5;P23284;Q5NDL2;Q13438}

4894 Pathogen[ P03383] interacts with 8 human  
 partners:{O60613;Q96DZ1;Q9UBS4;Q86VP3;P14625;Q8WU39;P23284;P27797}

4895 Pathogen[ P03410] interacts with 23 human  
 partners:{Q15293;Q14257;O60613;Q96D15;Q8NBJ7;Q86VP3;Q9NWW5;O14656;Q9BT09;P13667;P30040;P14625;P55157;Q9NYU1;Q9H173;Q8WU39;Q9UBS4;Q9UNW1;P23284;Q96DZ1;Q13438;Q9NYU2;P27797}

4896 Pathogen[ P14075] interacts with 8 human  
 partners:{Q8WU39;P23284;Q86VP3;O60613;P27797;Q96DZ1;Q9UBS4;P14625}

4897 Pathogen[ P0C206] interacts with 15 human  
 partners:{Q8NBJ7;Q96D15;P27797;Q9UBS4;Q96DZ1;O60613;O14656;Q86VP3;Q15293;P23284;Q8WU39;Q13438;Q14257;P13667;P14625}

4898 Pathogen[ P03363] interacts with 8 human  
 partners:{P23284;Q96DZ1;Q96D15;Q15293;P27797;Q9UBS4;Q13438;Q8WU39}

4899 [Cluster 446]GO:0032133+C cellular\_component [name] chromosome passenger complex [def] "A eukaryotically conserved protein complex that localizes to kinetochores in early mitosis, the spindle mid-zone in anaphase B and to the telophase midbody. It has been proposed that the passenger complex coordinates various events based on its location to different structures during the course of mitosis. Complex members include the BIR-domain-containing protein Survivin, Aurora B kinase, INCENP and Borealin." [GOC  
 4900 Pathogen[ Q2Q067] interacts with 2 human partners:{Q53HL2;O15392}  
 4901 Pathogen[ P0C214] interacts with 2 human partners:{Q53HL2;O15392}  
 4902 Pathogen[ P03346] interacts with 2 human partners:{O15392;Q53HL2}

- 4903 Pathogen[ Q85601] interacts with 2 human partners: {Q53HL2;O15392}  
4904 Pathogen[ P14079] interacts with 2 human partners: {O15392;Q53HL2}  
4905 Pathogen[ P03383] interacts with 1 human partners: {Q53HL2}  
4906 Pathogen[ P03410] interacts with 2 human partners: {O15392;Q53HL2}  
4907 Pathogen[ P14075] interacts with 1 human partners: {Q53HL2}  
4908 Pathogen[ POC206] interacts with 2 human partners: {Q53HL2;O15392}  
4909 Pathogen[ P03363] interacts with 1 human partners: {Q53HL2}  
4910 [Cluster 447]GO:0045095+C cellular\_component [name] keratin filament [def] "A filament composed of acidic and basic keratins (types I and II), typically expressed in epithelial cells. The keratins are the most diverse classes of IF proteins, with a large number of keratin isoforms being expressed. Each type of epithelium always expresses a characteristic combination of type I and type II keratins." [ISBN  
4911 Pathogen[ Q2Q067] interacts with 89 human partners: {A8MTY7;P35908;P02538;Q9BYQ7;Q9BYQ6;P60331;Q9BYQ2;Q9NSB2;Q9BYR5;Q9BYQ8;P60413;Q9BYP9;P60371;P08729;P78385;Q8IUC1;P60409;Q9BYR9;Q9BYR0;Q8N1N4;Q6L8G5;P60372;P13646;A8MUX0;Q7RTS7;P59991;Q6L8H1;Q3LI83;Q9BYQ5;A6NCN2;Q6L8G9;Q9NSB4;A8MXZ3;P60370;Q6L8H4;Q9BYQ3;P12035;P60369;O95678;P04264;Q86Y46;Q9BYR6;P05787;P35527;P60410;Q8TES7;P60014;Q14533;P60368;Q9BYR4;Q9BYQ9;P78386;P59990;P48668;P0C7H8;Q6L8G4;Q3SY84;Q701N2;Q9BYR8;O43790;P60412;Q14CN4;P13645;P19013;Q9BYQ0;P13647;Q6L8G8;P0C5Y4;Q6KB66;Q9BYR3;P60411;Q9BYS1;Q9BYR7;P04259;Q9BYU5;P02533;Q01546;Q9BYQ4;P26371;Q9BQ66;P05783;Q7Z794;Q5XKE5;Q6L8H2;Q701N4;Q9BT92;Q9BYR2;Q9BYT5;A8MVA2}  
4912 Pathogen[ P0C214] interacts with 83 human partners: {Q14CN4;P08729;P60014;P12035;Q8IUC1;P60369;P05783;P35527;Q86Y46;P02538;P04264;A8MVA2;P13646;P02533;Q9BYQ5;Q6L8H1;A8MTY7;Q9BYR7;Q9BYR5;P60371;P60410;Q6L8G4;Q7Z794;Q9BYR8;P60412;Q9BQ66;Q9BYQ2;Q3LI83;O95678;Q9NSB2;Q9BYQ8;Q3SY84;P05787;Q9BYQ9;P60411;P35908;Q9BYR0;P60331;Q9BYQ3;Q5XKE5;P78386;Q9BT92;Q701N2;P48668;Q14533;Q9BYQ4;Q9BYR3;P60409;P59990;P78385;Q8N1N4;A6NCN2;Q9BYR2;Q6L8G9;P0C5Y4;Q9BYQ0;P60372;P04259;Q8TES7;P60413;P59991;Q9BYQ7;P60370;P13647;Q7RTS7;Q9BYR4;Q6KB66;Q6L8G5;Q9BYS1;Q01546;P19013;Q9BYQ6;A8MXZ3;O43790;Q6L8H4;P26371;Q6L8G8;Q701N4;Q6L8H2;Q9NSB4;Q9BYR6;P13645;Q9BYP9}  
4913 Pathogen[ P03346] interacts with 91 human partners: {P13646;Q6KB66;Q8N1N4;Q9BYR9;P08729;P02538;Q6L8H1;Q86Y46;Q6L8G8;Q3SY84;Q6L8G5;P05783;P60369;Q9BYU5;Q9BYR2;P35527;Q9BYR0;Q9BYT5;Q9BYQ8;Q5XKE5;Q9BYQ2;Q9NSB4;Q9BQ66;A8MXZ3;P05787;O95678;P19013;P60329;P48668;Q8IUC1;P78386;P60409;A6NCN2;P59990;A8MVA2;Q9BYQ6;Q9BYQ3;Q9BT92;P0C7H8;P60014;P35908;Q7Z794;Q9BYQ0;P60411;Q6L8G9;Q9NSB2;Q6L8G4;P02533;Q701N2;Q9BYQ5;P60370;A8MUX0;O43790;P13645;Q9BYR4;P60368;Q9BYQ7;Q14533;Q9BYR8;P12035;A8MTY7;Q9BYP9;P60328;P59991;Q7RTS7;P60412;P26371;P0C5Y4;P13647;P60331;Q9BYR5;P60410;Q6L8H2;Q8TES7;P04259;P04264;Q9BYR3;Q14CN4;Q9BYS1;Q3LI83;Q01546;Q9BYR6;P60371;P78385;Q9BYQ9;Q6L8H4;Q9BYQ4;Q701N4;Q9BYR7;P60372;P60413}  
4914 Pathogen[ Q85601] interacts with 71 human partners: {P13646;Q8N1N4;P08729;P02538;P78386;P02533;Q9BYR3;P60369;Q9NSB4;P60368;Q5XKE5;Q3SY84;P60331;Q9BYQ6;P05787;Q9BYQ8;Q9BYR8;P19013;Q14533;O95678;Q9BYR5;Q9BYP9;P04259;P59990;Q9BT92;Q9BYQ3;P60372;Q9BYR2;Q9BYR0;P60412;Q7Z794;Q14CN4;Q9BYQ0;P60411;P60371;P05783;Q8TES7;P04264;Q01546;P60370;O43790;P59991;P48668;P13645;A8MTY7;Q7RTS7;P12035;A8MVA2;P60410;Q9BYQ9;Q9BQ66;Q9BYQ7;P78385;Q9BYR7;Q8IUC1;P13647;A6NCN2;P35527;Q9BYR4;P35908;Q9BYP9;P60014;Q3LI83;Q9BYQ2;Q9BYR6;Q9BYQ4;Q9NSB2;Q86Y46;P60413;P60409;Q6KB66}  
4915 Pathogen[ P14079] interacts with 91 human partners: {A8MUX0;P48668;P60409;Q3SY84;P60014;P60413;Q9BYR8;P35908;Q7Z794;Q9BYQ4;Q9BQ66;P59990;Q9BYR2;Q9BYR9;P0C5Y4;Q9BYR6;P0C7H8;Q701N2;Q9BYQ9;Q9BYQ3;Q9NSB4;Q9BYR3;Q6L8H2;Q7RTS7;Q9BYS1;P13646;A6NCN2;Q9BYQ2;P26371;P08729;P60410;Q6L8H4;Q01546;P35527;Q9BYU5;Q9BYR7;Q9BYP9;P02533;Q8IUG1;P60369;P60370;Q3LI83;P78385;P13645;O75690;Q8N1N4;A8MTY7;P60331;Q8IUC1;P60372;P60328;Q86Y46;Q6KB66;A8MXZ3;P78386;Q14533;Q9BYQ7;A8MVA2;P60329;Q5XKE5;Q9BYR4;Q14CN4;P05783;Q6L8G5;Q6L8G9;Q701N4;P60371;Q8TES7;Q07627;Q6L8H1;P60411;Q9BT92;Q6L8G4;Q9BYR5;Q9BYQ6;P04264;O43790;Q9BYR0;O95678;P04259;Q6L8G8;Q9BYQ0;Q9NSB2;P12035;Q9BYT5;Q9BYQ8;P60368;Q9BYQ5;P13647;P59991;P60412}  
4916 Pathogen[ P03383] interacts with 91 human partners: {O95678;A8MVA2;Q9BYQ7;P60371;P08729;Q8N1N4;Q86Y46;P02533;P19013;Q9BYR3;Q8IUC1;Q9NSB4;Q9NSB2;Q9BYR2;P26371;P0C7H8;P60409;Q14CN4;P60331;Q5XKE5;Q9BYQ9;Q9BYR4;Q9BYR6;A8MUX0;P60368;Q6L8G5;P13645;P59991;Q9BYT5;P05783;Q9BYP9;Q9BYR7;Q9BYQ3;Q6L8G9;Q6L8G4;P78386;Q8TES7;P60014;Q14533;P35527;Q9BQ66;P05787;P60412;A8MTY7;P60372;P59990;P60410;Q01546;Q7Z794;Q9BYR8;Q9BYR5;Q9BYQ8;P12035;P60370;P02538;Q9BT92;P60411;Q07627;Q9BYQ0;Q9BYQ5;Q3SY84;P04264;P48668;A8MXZ3;P35908;Q9BYQ4;Q9BYR9;P13647;Q6L8H1;P78385;Q6L8H2;Q9BYR0;P13646;P04259;Q9BYS1;Q7RTS7;Q6KB66;A6NCN2;P60369;P0C5Y4;Q9BYU5;Q8IUG1;Q701N2;Q6L8H4;P60413;Q3LI83;Q701N4;Q9BYQ2;Q6L8G8;O43790;Q9BYQ6}  
4917 Pathogen[ P03410] interacts with 94 human partners: {P78385;P13645;P13646;P60371;Q9BYR7;O75690;Q14CN4;P02533;Q9BYQ5;Q9BYQ2;Q8N1N4;Q9BYQ9;Q701N2;Q9BYQ6;Q9BYQ8;Q9BYU5;P60328;Q9BYT5;P04264;Q9BYR5;P12035;A8MUX0;P60412;P35527;Q9BYR0;Q3LI83;P19013;Q701N4;Q14533;A6NCN2;P60409;P60370;Q9BYQ7;O95678;P05787;Q3SY84;Q6L8G5;Q9BYR2;Q7Z794;P48668;Q6L8G8;P02538;Q9NSB4;A8MXZ3;P60014;Q9BYR4;Q9BQ66;P59991;Q9BT92;Q8IUC1;P35908;Q6L8G9;P60368;Q6L8H2;Q9BYP9;P60369;P60329;Q9BYQ3;Q6L8H4;P78386;Q9BYQ4;A8MVA2;Q7RTS7;P04259;Q5XKE5;P60413;O43790;Q9BYR8;P26371;Q8IUG1;Q01546;Q07627;P0C7H8;Q6L8H1;Q86Y46;Q6KB66;P59990;Q9NSB2;Q9BYR3;P08729;P60411;P60410;Q9BYS1;P13647;Q6L8G4;Q8TES7;Q9BYR6;P60331;A8MTY7;P05783;Q9BYR9;P60372;Q9BYQ0;P0C5Y4}  
4918 Pathogen[ P14075] interacts with 93 human partners: {Q6L8G5;P60331;Q6L8G4;P48668;P59990;P08729;P0C7H8;Q6L8H2;Q9BYQ2;Q6L8G8;Q9BYR0;P05783;Q9BYQ7;Q07627;P60411;Q6L8H4;Q8IUC1;Q9NSB4;Q9BYU5;Q9NSB2;O43790;Q6L8G9;P0C5Y4;Q6L8H1;Q9BYQ8;Q9BYP9;P13645;P12035;A6NCN2;A8MVA2;P78385;Q9BYQ3;Q9BT92;Q9BYQ9;Q86Y46;

Q9BYR9;Q9BYR6;Q9BYR8;P60368;P60371;A8MTY7;Q9BYQ5;Q9BYR3;P35908;Q9BYQ4;P26371;Q8TES7;P04264;P13646;Q9BYR5;Q5XKE5;P60370;Q9BQ66;Q9BYT5;Q701N2;P04259;P60410;A8MUX0;P60412;A8MXZ3;P60328;P78386;Q9BYQ0;P60369;Q7RTS7;P13647;Q8IUG1;Q14533;P60409;Q9BYR4;P60014;Q7Z794;Q95678;Q9BYR7;P60372;Q9BYR2;P59991;Q14CN4;Q9BYS1;Q8N1N4;P02538;P60413;P35527;Q01546;P02533;Q6KB66;Q3SY84;P19013;Q701N4;O75690;Q9BYQ6;P05787;Q3LI83}

4919 Pathogen[ POC206] interacts with 92 human partners: {Q9BQ66;Q9BYR7;Q6L8H2;Q6L8G4;P05787;Q9NSB2;P60368;P59991;P35527;P78385;Q07627;P02538;Q9BT92;Q9BYQ3;P60371;Q9BYP9;Q9BYQ0;P60409;P60413;P04264;P13645;Q3LI83;Q9BYR4;P08729;O75690;P60410;Q6KB66;Q7Z794;P78386;Q9BYR6;Q95678;Q14533;Q9BYQ7;Q9BYQ6;Q9BYQ2;P19013;Q701N2;P13647;Q6L8G8;Q6L8G9;P60331;P48668;P60372;P0C5Y4;P60411;P05783;Q8IUC1;Q14CN4;Q01546;P26371;Q701N4;P60014;Q9BYR3;Q9BYR0;Q9BYS1;Q9BYR5;Q5XKE5;Q6L8G5;Q9BYQ5;Q9BYR9;P59990;Q9BYU5;Q8N1N4;Q9BYQ9;Q3SY84;Q6L8H1;Q9NSB4;P0C7H8;P04259;Q7RTS7;A8MVA2;Q9BYR8;P12035;P60412;A8MUX0;Q9BYQ4;P02533;Q86Y46;Q9BYR2;A8MXZ3;P13646;Q6L8H4;Q9BYT5;P60369;Q8IUG1;P35908;Q9BYQ8;O43790;P60370;A8MTY7;Q8TES7;A6NCN2}

4920 Pathogen[ P03363] interacts with 91 human partners: {P78385;P05783;Q6L8H2;P02533;Q9BYR9;P60370;Q701N2;P02538;A8MUX0;Q14533;Q9BYR6;P13645;P0C5Y4;A8MTY7;P60411;Q9BYR7;A8MXZ3;P60412;Q9BYR3;Q9BYQ6;Q7RTS7;P60369;Q86Y46;Q9BYT5;P60372;P60368;Q3SY84;P59991;Q3LI83;Q8TES7;P59990;P60409;A6NCN2;P60328;Q6L8G8;Q9BYU5;Q9BQ66;P48668;Q9BYQ7;Q6L8H1;P05787;P35908;Q6L8G5;Q9BYQ9;P60331;Q9BYP9;P60014;Q9BYR5;P60329;O43790;Q8IUC1;P13647;P04259;Q14CN4;P35527;O95678;Q6L8G9;Q9BYR8;Q9BYR2;A8MVA2;Q9BT92;Q9NSB2;Q9BYQ2;Q9BYR0;P08729;Q701N4;P60413;Q9BYS1;Q9BYQ0;P12035;Q9BYQ3;P78386;P0C7H8;P19013;Q6L8G4;P13646;Q6KB66;Q01546;Q9BYR4;Q6L8H4;P60410;Q8N1N4;P04264;P26371;Q9BYQ4;Q5XKE5;Q7Z794;Q9BYQ8;Q9NSB4;P60371;Q9BYQ5}

4921 [Cluster 448]GO:0001674+C cellular\_component [name] female germ cell nucleus [def]  
"The nucleus of the female germ cell, a reproductive cell in females." [CL

4922 Pathogen[ Q2Q067] interacts with 1 human partners: {P38432}

4923 Pathogen[ POC214] interacts with 1 human partners: {P38432}

4924 Pathogen[ P03346] interacts with 1 human partners: {P38432}

4925 Pathogen[ Q85601] interacts with 1 human partners: {P38432}

4926 Pathogen[ P14079] interacts with 2 human partners: {Q8IZA3;P38432}

4927 Pathogen[ P03383] interacts with 1 human partners: {P38432}

4928 Pathogen[ P03410] interacts with 1 human partners: {P38432}

4929 Pathogen[ P14075] interacts with 1 human partners: {P38432}

4930 Pathogen[ POC206] interacts with 1 human partners: {P38432}

4931 Pathogen[ P03363] interacts with 2 human partners: {Q8IZA3;P38432}

4932 [Cluster 449]GO:0000127+C cellular\_component [name] transcription factor TFIIIC complex [def] "A heterotrimeric transcription factor complex that is involved in regulating transcription from RNA polymerase III (Pol III) promoters. TFIIIC contains three conserved subunits that associate with the proximal Pol III promoter element, and additional subunits that associate with sequence elements downstream of the promoter and are more diverged among species. It also functions as a boundary element to partition genome content into distinct domains outside Pol III promoter regions." [GOC

4933 Pathogen[ Q2Q067] interacts with 4 human partners: {Q9Y5Q8;Q9UKN8;Q12789;Q969F1}

4934 Pathogen[ POC214] interacts with 4 human partners: {Q9Y5Q8;Q9UKN8;Q12789;Q969F1}

4935 Pathogen[ P03346] interacts with 6 human partners: {Q9Y5Q8;Q9UKN8;Q8WUA4;Q9Y5Q9;Q969F1;Q12789}

4936 Pathogen[ Q85601] interacts with 4 human partners: {Q9UKN8;Q9Y5Q8;Q12789;Q969F1}

4937 Pathogen[ P14079] interacts with 6 human partners: {Q9UKN8;Q9Y5Q9;Q969F1;Q9Y5Q8;Q12789;Q8WUA4}

4938 Pathogen[ P03383] interacts with 4 human partners: {Q9UKN8;Q969F1;Q9Y5Q8;Q12789}

4939 Pathogen[ P03410] interacts with 6 human partners: {Q9Y5Q9;Q969F1;Q9Y5Q8;Q12789;Q8WUA4;Q9UKN8}

4940 Pathogen[ P14075] interacts with 4 human partners: {Q969F1;Q12789;Q9Y5Q8;Q9UKN8}

4941 Pathogen[ POC206] interacts with 6 human partners: {Q969F1;Q8WUA4;Q9Y5Q9;Q9Y5Q8;Q9UKN8;Q12789}

4942 Pathogen[ P03363] interacts with 6 human partners: {Q969F1;Q8WUA4;Q9Y5Q9;Q12789;Q9UKN8;Q9Y5Q8}

4943 [Cluster 450]GO:0005726+C cellular\_component [name] perichromatin fibrils [def]  
"Structures of variable diameter visible in the nucleoplasm by electron microscopy, mainly observed near the border of condensed chromatin. The fibrils are enriched in RNA, and are believed to be sites of pre-mRNA splicing and polyadenylation representing the in situ form of nascent transcripts." [PMID

4944 Pathogen[ Q2Q067] interacts with 3 human partners: {Q9UHK0;O15164;Q9HBD4}

4945 Pathogen[ POC214] interacts with 3 human partners: {Q9HBD4;Q9UHK0;O15164}

4946 Pathogen[ P03346] interacts with 3 human partners: {Q9HBD4;Q9UHK0;O15164}

4947 Pathogen[ Q85601] interacts with 3 human partners: {O15164;Q9UHK0;Q9HBD4}

4948 Pathogen[ P14079] interacts with 2 human partners: {O15164;Q9UHK0}

4949 Pathogen[ P03383] interacts with 2 human partners: {Q9HBD4;Q9UHK0}

4950 Pathogen[ P03410] interacts with 2 human partners: {Q9UHK0;Q9HBD4}

4951 Pathogen[ P14075] interacts with 2 human partners: {Q9HBD4;Q9UHK0}

4952 Pathogen[ POC206] interacts with 3 human partners: {Q9UHK0;O15164;Q9HBD4}

4953 Pathogen[ P03363] interacts with 2 human partners: {Q9UHK0;Q9HBD4}

4954 [Cluster 451]GO:0030425+C cellular\_component [name] dendrite [def] "A neuron projection that has a short, tapering, often branched, morphology, receives and integrates signals from other neurons or from sensory stimuli, and conducts a nerve impulse towards the axon or the cell body. In most neurons, the impulse is conveyed from

dendrites to axon via the cell body, but in some types of unipolar neuron, the impulse does not travel via the cell body." [GOC

4955 Pathogen[ Q2Q067] interacts with 34 human  
partners: {Q9BSU1;P09917;Q13033;Q9H2P0;Q15596;Q9UBB6;Q9H0F6;Q9P1A6;P63279;P63241;P0C7T5;Q00577;Q9UBB4;P63165;Q04323;Q05084;P51959;Q9Y6X2;O94850;P61244;Q9NZJ4;Q9NZU7;Q9UQF2;Q86WG3;Q12983;Q9UPA5;P30047;Q99689;Q9Y296;Q66K74;Q9HCI5;P42224;O94763;Q14194}

4956 Pathogen[ P0C214] interacts with 40 human  
partners: {Q9BSU1;Q9Y6X2;Q9UBB6;P05937;P09917;P61244;Q9UBB4;P51959;P62166;Q13033;Q9UPU9;Q9H0F6;P63279;P42224;Q9P1A6;Q9Y296;Q14194;Q9NZI8;Q8NEJ9;P63241;Q9NZJ4;P63165;Q00577;P0C7T5;Q9Y2H0;Q99689;Q04323;Q9NZU7;O94850;Q9UQF2;Q9HD26;Q12983;Q9HCI5;Q05084;Q86WG3;Q15596;O94763;P30047;Q66K74;Q9H2P0}

4957 Pathogen[ P03346] interacts with 50 human  
partners: {Q9BSU1;Q9UBB4;P0C7T5;Q9H2P0;Q00577;Q12772;O94763;Q99689;Q9NZU7;Q9Y6D5;Q9NZI8;O75970;Q66K74;P63279;Q05084;Q9NZJ4;P63241;Q9H0F6;P05937;Q12983;P30047;P09917;Q8NEJ9;Q9P021;Q9Y2H0;Q13033;Q15596;Q9HD26;Q9Y296;P63165;P84550;P42224;O94850;P11137;P62166;P61244;Q04323;Q15700;Q9UQF2;Q9UBB6;P51959;P54257;Q9C0H9;Q9Y6X2;Q14194;Q9NRD5;Q86WG3;Q9P1A6;Q9UPA5;Q9HCI5}

4958 Pathogen[ Q85601] interacts with 36 human  
partners: {Q9BSU1;Q9NZU7;Q14194;P09917;Q9UBB4;Q9Y6X2;Q9P1A6;Q66K74;Q12772;Q9Y296;P63241;Q9H0F6;P51959;Q15596;P63279;P30047;Q9UQF2;P0C7T5;Q00577;Q04323;Q9HD26;Q9UPA5;Q9H2P0;P42224;Q99689;Q13033;P61244;Q86WG3;P63165;Q12983;O94763;Q9NZJ4;Q9UPU9;P62166;Q05084;Q9HCI5}

4959 Pathogen[ P14079] interacts with 59 human  
partners: {Q9Y296;O14810;P51959;P05937;Q05084;P63279;Q86WG3;P54257;Q15596;Q9NZJ4;Q8NBQ7;Q9Y6X2;Q15700;O75781;P13498;Q9BSU1;Q9UQF2;Q13033;Q66K74;Q9Y6D5;Q9UPU9;Q9UPA5;Q9H2P0;Q14444;P63165;Q9C0H9;Q9HCI5;Q9Y2H0;P35611;Q15078;O94763;Q12772;Q9HD26;Q6PUV4;Q7Z7J9;Q99689;Q9NP74;Q9UBB6;Q9UBB4;P62166;Q12983;Q14194;P09917;Q00577;P42224;P63241;Q05682;Q9H0F6;Q9P021;Q9P1A6;P11137;Q8NEJ9;P61244;P0C7T5;P30047;O94850;Q9NZU7;Q04323;O75970}

4960 Pathogen[ P03383] interacts with 29 human  
partners: {Q9BSU1;Q9P1A6;Q9UBB6;Q9H0F6;P0C7T5;Q15596;Q9UBB4;Q9HD26;Q86WG3;Q99689;Q04323;Q9Y296;Q9UQF2;P63241;Q12983;Q05084;O94763;P51959;P63165;Q9Y6X2;O94850;Q9HCI5;Q00577;Q13033;P61244;Q9C0H9;P30047;Q9Y2H0;P63279}

4961 Pathogen[ P03410] interacts with 54 human  
partners: {Q9P1A6;O75781;P30047;O94763;P11137;Q12983;P0C7T5;P63165;Q05682;O14810;Q9Y2H0;Q86WG3;Q9Y6X2;Q04323;Q8NEJ9;O94850;Q05084;Q00577;P61244;Q15700;Q9HD26;O75970;Q9NRD5;Q9NZJ4;P51959;Q12772;Q9BSU1;Q9UPA5;Q9UPU9;P05937;Q9UBB6;Q13033;Q9Y6D5;Q7Z7J9;Q9NZU7;Q6PUV4;Q66K74;P54257;Q15596;Q9HCI5;P63279;Q9Y296;P63241;P09917;Q14194;Q9P021;Q9UQF2;Q9C0H9;Q9UBB4;P62166;Q9NP74;P35611;Q9H0F6;Q99689}

4962 Pathogen[ P14075] interacts with 31 human  
partners: {Q9BSU1;P63165;Q8NEJ9;Q86WG3;Q12983;P51959;P61244;P0C7T5;Q9HD26;P63241;P63279;Q9UBB4;Q04323;O94763;P30047;Q9UBB6;Q05084;Q9P1A6;Q00577;Q9Y2H0;Q9C0H9;Q9UPA5;Q9Y296;Q13033;Q9UQF2;Q9Y6X2;Q9H0F6;O94850;Q9HCI5;Q15596;Q99689}

4963 Pathogen[ P0C206] interacts with 47 human  
partners: {P09917;Q9Y296;Q9UBB4;Q9BSU1;P62166;Q15700;Q04323;Q9UPA5;Q9P021;O94850;Q9NZJ4;P0C7T5;Q9UQF2;Q9NZU7;Q9Y6X2;Q66K74;P30047;Q8NEJ9;Q99689;Q9Y2H0;Q12983;P11137;Q9UPU9;Q9Y6D5;P51959;Q6PUV4;Q9UBB6;P61244;Q9C0H9;Q14194;P63241;Q9H0F6;Q15596;P84550;P63165;Q9H2P0;Q13033;Q86WG3;P42224;Q9NRD5;Q9HCI5;Q9HD26;Q12772;Q05084;Q9P1A6;O94763;Q00577}

4964 Pathogen[ P03363] interacts with 43 human  
partners: {Q9P021;Q9BSU1;P11137;P0C7T5;Q04323;Q9UBB6;Q66K74;Q9NZJ4;Q14194;Q9UQF2;Q9H2P0;Q13033;Q15700;Q15596;O75970;P61244;O94850;Q9Y6X2;P63165;Q86WG3;Q9UPU9;Q9NZI8;Q9UBB4;O94763;Q05084;Q9NZU7;P63279;P54257;Q9UPA5;P63241;Q9H0F6;P51959;P84550;Q9HCI5;Q9Y296;Q9P1A6;P30047;Q00577;Q8NEJ9;Q9HD26;P05937;Q99689;Q9C0H9}

4965 [Cluster 452]GO:0005637+cellular\_component [name] nuclear inner membrane [def]  
"The inner, i.e. lumen-facing, lipid bilayer of the nuclear envelope." [GOC

4966 Pathogen[ Q2Q067] interacts with 11 human  
partners: {Q9UH99;P50402;Q13185;P20700;P42167;Q03252;P42704;Q9NZP6;P84022;Q14739;Q15797}

4967 Pathogen[ P0C214] interacts with 11 human  
partners: {Q14739;P84022;P42704;P20700;Q9NZP6;Q9UH99;Q03252;P50402;Q13185;P43243;Q15797}

4968 Pathogen[ P03346] interacts with 14 human  
partners: {Q14739;P20700;Q15797;P43243;Q9UH99;Q53HI1;Q9NZP6;P84022;P42704;P50402;Q03252;O94901;P42167;Q13185}

4969 Pathogen[ Q85601] interacts with 11 human  
partners: {P20700;Q15797;Q03252;Q9NZP6;Q9UH99;P42704;Q13185;P50402;P84022;O94901;Q14739}

4970 Pathogen[ P14079] interacts with 19 human  
partners: {O94901;P42704;Q14739;Q15797;Q5SNT2;Q03252;P43243;Q13185;P42167;Q5JTV8;Q9UN42;Q8NC56;Q9NZP6;Q9BTV4;Q53HI1;P20700;P50402;Q9UH99;Q8IXM6}

4971 Pathogen[ P03383] interacts with 9 human  
partners: {Q9UH99;Q15797;Q9NZP6;Q13185;P84022;P20700;P50402;Q03252;P42704}

4972 Pathogen[ P03410] interacts with 20 human  
partners: {P84022;Q14739;Q9UH99;P20700;Q5SNT2;Q53HI1;Q9BTV4;P43243;Q03252;Q15797;P42704;P42167;Q9UN42;Q13185;P50402;O94901;Q8NC56;Q5JTV8;Q8IXM6;Q9NZP6}

4973 Pathogen[ P14075] interacts with 11 human  
partners: {P42704;P20700;P50402;Q9NZP6;Q13185;Q8IXM6;Q9UH99;P84022;Q53HI1;P42167;Q03252}

2}  
4974 Pathogen[ P0C206] interacts with 18 human partners:{P84022;P50402;Q14739;Q8IXM6;Q9UH99;Q03252;O94901;Q8NC56;Q53HI1;Q15797;P43243;Q13185;P20700;P42704;Q9UN42;Q9NZP6;P42167;Q9BTV4}  
4975 Pathogen[ P03363] interacts with 13 human partners:{P20700;P42167;P42704;Q15797;Q13185;Q03252;P84022;P43243;P50402;O94901;Q9NZP6;Q14739;Q9UH99}  
4976 [Cluster 453]GO:0070695+C cellular\_component [name] FHF complex [def] "A protein complex that is composed of AKTIP/FTS, FAM160A2/p107FHIP, and one or more members of the Hook family of proteins, HOOK1, HOOK2, and HOOK3. The complex is thought to promote vesicle trafficking and/or fusion, and associates with the homotypic vesicular sorting complex (the HOPS complex)." [GOC  
4977 Pathogen[ Q2Q067] interacts with 4 human partners:{Q8N612;Q9H8T0;Q86VS8;Q96ED9}  
4978 Pathogen[ P0C214] interacts with 4 human partners:{Q96ED9;Q8N612;Q86VS8;Q9H8T0}  
4979 Pathogen[ P03346] interacts with 5 human partners:{Q86VS8;Q8N612;Q9H8T0;Q96ED9;Q9UJC3}  
4980 Pathogen[ Q85601] interacts with 4 human partners:{Q86VS8;Q8N612;Q9H8T0;Q96ED9}  
4981 Pathogen[ P14079] interacts with 5 human partners:{Q9UJC3;Q86VS8;Q96ED9;Q9H8T0;Q8N612}  
4982 Pathogen[ P03383] interacts with 4 human partners:{Q8N612;Q9H8T0;Q86VS8;Q96ED9}  
4983 Pathogen[ P03410] interacts with 5 human partners:{Q9UJC3;Q9H8T0;Q86VS8;Q96ED9;Q8N612}  
4984 Pathogen[ P14075] interacts with 4 human partners:{Q8N612;Q9H8T0;Q86VS8;Q96ED9}  
4985 Pathogen[ P0C206] interacts with 5 human partners:{Q9H8T0;Q86VS8;Q96ED9;Q8N612;Q9UJC3}  
4986 Pathogen[ P03363] interacts with 5 human partners:{Q86VS8;Q96ED9;Q9H8T0;Q8N612;Q9UJC3}  
4987 [Cluster 454]GO:0034993+C cellular\_component [name] SUN-KASH complex [def] "A protein complex that spans the nuclear outer and inner membranes, thereby linking the major cytoplasmic cytoskeleton elements to the nuclear lumen\_ the complex is conserved in eukaryotes and contains proteins with SUN and KASH domains." [GOC  
4988 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9UH99;Q8NF91}  
4989 Pathogen[ P0C214] interacts with 2 human partners:{Q9UH99;Q8NF91}  
4990 Pathogen[ P03346] interacts with 5 human partners:{Q8WXH0;Q9UH99;Q6ZMZ3;Q8NF91;O94901}  
4991 Pathogen[ Q85601] interacts with 3 human partners:{Q9UH99;Q8NF91;O94901}  
4992 Pathogen[ P14079] interacts with 5 human partners:{O94901;Q8WXH0;Q6ZMZ3;Q8NF91;Q9UH99}  
4993 Pathogen[ P03383] interacts with 1 human partners:{Q9UH99}  
4994 Pathogen[ P03410] interacts with 5 human partners:{Q6ZMZ3;Q9UH99;O94901;Q8WXH0;Q8NF91}  
4995 Pathogen[ P14075] interacts with 1 human partners:{Q9UH99}  
4996 Pathogen[ P0C206] interacts with 5 human partners:{Q9UH99;O94901;Q6ZMZ3;Q8NF91;Q8WXH0}  
4997 Pathogen[ P03363] interacts with 4 human partners:{Q8NF91;Q6ZMZ3;O94901;Q9UH99}  
4998 [Cluster 455]GO:0043033+C cellular\_component [name] isoamylase complex [def] "A protein complex whose composition varies amongst species\_ in rice it probably exists in a homo-tetramer to homo-hexamer form and in Gram-negative bacteria as a dimer. Functions in the hydrolysis of alpha-(1,6)-D-glucosidic branch linkages." [GOC  
4999 Pathogen[ Q2Q067] interacts with 1 human partners:{P35573}  
5000 Pathogen[ P0C214] interacts with 1 human partners:{P35573}  
5001 Pathogen[ P03346] interacts with 1 human partners:{P35573}  
5002 Pathogen[ Q85601] interacts with 1 human partners:{P35573}  
5003 Pathogen[ P14079] interacts with 1 human partners:{P35573}  
5004 Pathogen[ P03383] interacts with 1 human partners:{P35573}  
5005 Pathogen[ P03410] interacts with 1 human partners:{P35573}  
5006 Pathogen[ P14075] interacts with 1 human partners:{P35573}  
5007 Pathogen[ P0C206] interacts with 1 human partners:{P35573}  
5008 Pathogen[ P03363] interacts with 1 human partners:{P35573}  
5009 [Cluster 456]GO:0000109+C cellular\_component [name] nucleotide-excision repair complex [def] "Any complex formed of proteins that act in nucleotide-excision repair." [PMID  
5010 Pathogen[ Q2Q067] interacts with 2 human partners:{Q92889;Q13216}  
5011 Pathogen[ P0C214] interacts with 2 human partners:{Q92889;Q13216}  
5012 Pathogen[ P03346] interacts with 3 human partners:{P07992;Q13216;Q92889}  
5013 Pathogen[ Q85601] interacts with 2 human partners:{Q13216;Q92889}  
5014 Pathogen[ P14079] interacts with 3 human partners:{Q13216;Q92889;P07992}  
5015 Pathogen[ P03383] interacts with 1 human partners:{Q13216}  
5016 Pathogen[ P03410] interacts with 3 human partners:{P07992;Q92889;Q13216}  
5017 Pathogen[ P14075] interacts with 1 human partners:{Q13216}  
5018 Pathogen[ P0C206] interacts with 3 human partners:{Q13216;P07992;Q92889}  
5019 Pathogen[ P03363] interacts with 2 human partners:{Q92889;Q13216}  
5020 [Cluster 457]GO:0005765+C cellular\_component [name] lysosomal membrane [def] "The lipid bilayer surrounding the lysosome and separating its contents from the cell cytoplasm." [GOC  
5021 Pathogen[ Q2Q067] interacts with 14 human partners:{Q9Y6Q5;Q10567;P56377;O43747;Q9H267;Q96PC3;Q96CW1;P61966;Q99732;Q9H0R1;Q9BXS

5:Q9NUS5;Q96NA2;P78537}  
5022 Pathogen[ P0C214] interacts with 13 human  
partners:{Q96CW1;Q9NUS5;Q96NA2;P78537;Q9H0R1;Q10567;Q99732;P56377;Q96PC3;O43747;Q9Y6Q5;P61966;Q9BXS5}  
5023 Pathogen[ P03346] interacts with 19 human  
partners:{P61966;Q9P253;O43747;P56377;Q9BXS5;Q9H0R1;Q96NA2;Q9BXW6;Q10567;P78537;Q96CW1;Q96AX1;Q96PC3;Q9NUS5;Q8N357;Q96S99;Q9Y6Q5;Q9H267;Q99732}  
5024 Pathogen[ Q85601] interacts with 16 human  
partners:{Q96S99;Q96CW1;Q9P253;Q9BXS5;Q9NUS5;P56377;O43747;Q10567;Q9H267;P78537;Q96PC3;P61966;Q96NA2;Q9Y6Q5;Q99732;Q9H0R1}  
5025 Pathogen[ P14079] interacts with 35 human  
partners:{Q9BXW6;Q96CW1;Q96NA2;Q9Y6Q5;P61966;Q9BXS5;Q9Y2Q5;P86790;Q92542;Q10567;P56377;P86791;Q96S99;Q9H269;Q9H8M9;O75503;Q9NQX7;Q8N357;Q99732;Q86T03;Q6IAA8;Q96AX1;Q9P253;Q9NUM4;Q8N682;Q8WVB7;Q9H0R1;Q86WC4;O43747;Q6UX65;Q9NUS5;Q96PC3;Q9NUN5;P78537;Q9H267}  
5026 Pathogen[ P03383] interacts with 9 human  
partners:{Q96CW1;P56377;Q10567;Q9NUS5;P78537;O43747;Q99732;Q9BXS5;Q96NA2}  
5027 Pathogen[ P03410] interacts with 32 human  
partners:{Q9Y6Q5;Q9Y2Q5;P78537;Q96PC3;Q96CW1;Q9H267;Q9BXS5;Q96S99;Q86T03;Q9NUS5;O43747;Q10567;Q99732;Q9P253;P86791;O75503;Q9NUN5;Q8N357;Q86WC4;Q9NQX7;Q6UX65;Q8WVB7;Q9H0R1;P86790;Q6IAA8;Q92542;Q96NA2;P61966;Q9H269;P56377;Q9BXW6;Q96AX1}  
5028 Pathogen[ P14075] interacts with 9 human  
partners:{P78537;Q96CW1;Q96NA2;Q99732;O43747;P56377;Q9BXS5;Q10567;Q9NUS5}  
5029 Pathogen[ P0C206] interacts with 24 human  
partners:{P78537;Q9Y6Q5;O43747;Q10567;Q9H0R1;P61966;Q92542;Q8WVB7;Q9BXS5;Q8N357;Q96CW1;Q96AX1;Q96S99;Q9NQX7;Q9BXW6;Q9P253;Q96NA2;Q96PC3;Q86T03;Q99732;Q9H267;Q86WC4;P56377;Q9NUS5}  
5030 Pathogen[ P03363] interacts with 11 human  
partners:{O43747;P78537;Q9NUS5;Q9BXS5;Q9H0R1;Q9BXW6;Q9H267;Q99732;Q96NA2;Q10567;Q96CW1}  
5031 [Cluster 458]GO:0043005+C cellular\_component [name] neuron projection [def] "A  
prolongation or process extending from a nerve cell, e.g. an axon or dendrite." [GOC  
5032 Pathogen[ Q2Q067] interacts with 30 human  
partners:{Q96B97;Q95295;Q9UBB6;Q8IZP0;Q96EV8;Q9UER7;O14910;P26447;Q13158;Q14790;Q86UL8;P11142;O95721;P78352;Q9HB71;Q9BZW7;Q96F07;Q9UPX8;P62136;Q9H0B6;P53041;Q9UQF2;Q86WG3;P35813;O75150;O00161;Q9UPA5;P60953;O15083;Q9NUP9}  
5033 Pathogen[ P0C214] interacts with 32 human  
partners:{O15083;Q9UBB6;O14910;P05937;P35813;Q8IZP0;Q9UPX8;O95295;Q13158;Q96F07;Q9UPU9;P60953;O95721;Q9H0B6;P78352;P35580;Q9UER7;O00154;P62136;Q9BZW7;Q96EV8;P53041;Q9UQF2;P26447;P10909;O75150;Q86WG3;O00161;Q9HB71;Q96B97;P11142;Q14790}  
5034 Pathogen[ P03346] interacts with 39 human  
partners:{P62136;Q96B97;P35813;Q96A65;O75150;Q12840;Q96F07;O95295;Q13158;P78352;Q8IZP0;O75970;P11142;P60953;P05937;O15083;O00161;Q9HB71;Q92625;Q9NUP9;Q86UL8;Q96EV8;O95721;Q6P597;Q9UER7;P53041;P11137;P26447;Q9HAP6;Q14790;Q9UQF2;Q9UBB6;P54257;Q9BZW7;Q9UPX8;O14910;Q86WG3;Q9H0B6;Q9UPA5}  
5035 Pathogen[ Q85601] interacts with 34 human  
partners:{Q9UPX8;P26447;Q9NUP9;O14910;Q96A65;Q96F07;O95295;Q13158;Q14790;Q86UL8;Q9UER7;O15083;Q9UQF2;Q12840;Q6P597;Q96EV8;P62136;P11142;Q9UPA5;Q96B97;P78352;P53041;O75150;Q86WG3;P60953;P35580;Q8IZP0;P35813;Q9UPU9;Q9HB71;O00161;Q9H0B6;O95721;Q9BZW7}  
5036 Pathogen[ P14079] interacts with 40 human  
partners:{Q8WWM9;P05937;P11142;Q86WG3;P54257;P53041;Q12840;Q9UQF2;Q9UPU9;Q9UPA5;P62136;Q8IZP0;P10909;Q96B97;P35813;Q9NUP9;Q9HB71;O95721;Q7Z7J9;Q14790;Q9UER7;Q9UBB6;O60282;Q9NZ72;Q9HAP6;P26447;O15083;O95295;Q96F07;O75366;Q86UL8;Q96A65;Q13158;Q96EV8;P11137;Q9H0B6;Q6P597;O75970;Q9UPX8;Q9BZW7}  
5037 Pathogen[ P03383] interacts with 22 human  
partners:{Q9UBB6;O95295;Q86WG3;P60953;Q9BZW7;Q9H0B6;Q9UQF2;P35813;Q13158;Q96EV8;P62136;Q9HB71;Q96F07;Q9UER7;P11142;P53041;P35580;O00161;O15083;O75150;P78352;O14910}  
5038 Pathogen[ P03410] interacts with 47 human  
partners:{P26447;O14910;Q9HB71;P11137;P35813;Q9H0B6;O60282;P62136;Q86WG3;P11142;Q9NUP9;Q12840;Q6P597;Q13158;Q9HAP6;O95295;Q8WWM9;O60333;O75970;O00154;O75150;Q9UER7;Q9UPA5;Q96A65;Q9UPU9;P05937;Q9UBB6;P53041;Q7Z7J9;Q8IZP0;Q9BZW7;P54257;P60953;P35580;Q9NZ72;Q96B97;P33176;Q9UPX8;Q86UL8;Q96F07;Q9UQF2;O95721;P78352;O00161;Q96EV8;P10909;O15083}  
5039 Pathogen[ P14075] interacts with 22 human  
partners:{P60953;Q96F07;Q86WG3;P35813;P11142;O15083;O95295;P62136;O14910;O75150;Q13158;P53041;Q9UBB6;O00161;Q96EV8;P78352;Q9BZW7;Q9UER7;Q9H0B6;Q9UPA5;Q9UQF2;Q9HB71}  
5040 Pathogen[ P0C206] interacts with 40 human  
partners:{Q9NUP9;Q9HB71;P78352;P26447;Q96F07;O95721;Q9UPA5;Q96B97;P53041;Q9UER7;Q6P597;Q13158;Q9BZW7;Q9UQF2;Q96A65;O00161;P11137;Q9H0B6;O15083;Q9UPU9;Q8IZP0;Q96EV8;Q9NZ72;Q9UPX8;Q14790;P10909;Q9UBB6;Q92625;O14910;Q12840;P60953;O95295;Q86UL8;Q86WG3;P35580;P11142;O75150;Q8WWM9;P62136;P35813}  
5041 Pathogen[ P03363] interacts with 41 human  
partners:{P11137;Q8IZP0;P62136;Q9UBB6;P26447;P33176;Q9HB71;Q9UQF2;Q9UPX8;Q96B97;Q96A65;O14910;P78352;P53041;Q96F07;Q9UER7;Q13158;O75970;Q7L576;O75150;O60282;Q9H0B6;Q86WG3;Q9UPU9;O95721;Q9NZR1;P54257;O95295;Q12923;Q9UPA5;Q92625;O15083;Q86UL8;Q9BZW7;O60333;O00161;Q9NUP9;P60953;Q12840;P11142;P05937}  
5042 [Cluster 459]GO:0030122+C cellular\_component [name] AP-2 adaptor complex [def] "A  
heterotetrameric AP-type membrane coat adaptor complex that consists of alpha, beta2, mu2



and sigma2 subunits, and links clathrin to the membrane surface of a vesicle\_ vesicles with AP-2-containing coats are normally found primarily near the plasma membrane, on endocytic vesicles. In at least humans, the AP-2 complex can be heterogeneric due to the existence of multiple subunit isoforms encoded by different alpha genes (alphaA and alphaC)." [GOC

5043 Pathogen[ Q2Q067] interacts with 2 human partners:{094973;095782}

5044 Pathogen[ P0C214] interacts with 4 human partners:{Q9BQI5;094973;095782;P53680}

5045 Pathogen[ P03346] interacts with 6 human partners:{P53680;095782;P42566;Q13492;Q9BQI5;094973}

5046 Pathogen[ Q85601] interacts with 3 human partners:{P53680;094973;095782}

5047 Pathogen[ P14079] interacts with 6 human partners:{Q13492;P42566;095782;Q9BQI5;094973;P53680}

5048 Pathogen[ P03383] interacts with 3 human partners:{Q9BQI5;095782;094973}

5049 Pathogen[ P03410] interacts with 6 human partners:{095782;P53680;Q13492;Q9BQI5;P42566;094973}

5050 Pathogen[ P14075] interacts with 3 human partners:{Q9BQI5;094973;095782}

5051 Pathogen[ P0C206] interacts with 5 human partners:{P53680;094973;Q9BQI5;095782;P42566}

5052 Pathogen[ P03363] interacts with 3 human partners:{094973;095782;Q9BQI5}

5053 [Cluster 460]GO:0022627+C cellular\_component [name] cytosolic small ribosomal subunit [def] "The small subunit of a ribosome located in the cytosol." [GOC

5054 Pathogen[ Q2Q067] interacts with 35 human partners:{P62701;P62273;Q9Y2R9;P15880;P46782;P22090;P62277;P62241;P62244;P62861;P62081;P61247;P62249;P62280;P62263;P60866;P08708;P08865;P62269;P46783;P62857;P69905;P62847;P23396;P39019;P62266;P42677;P63220;P62841;P62854;P62753;P62851;P25398;P46781;P62979}

5055 Pathogen[ P0C214] interacts with 35 human partners:{P62861;P61247;P15880;P62081;P22090;P62249;P62854;P39019;P62263;P62273;P23396;P62847;P69905;P62701;P63220;P08865;P62266;P62277;P46783;P62280;P62753;P62269;P46781;Q9Y2R9;P62841;P62244;P42677;P62241;P60866;P62857;P08708;P25398;P62979;P62851;P46782}

5056 Pathogen[ P03346] interacts with 35 human partners:{P62249;P62861;P62277;P62280;P62857;P62266;P62273;P60866;P69905;P08708;P46782;P62854;P08865;P25398;Q9Y2R9;P62269;P62081;P61247;P46781;P15880;P62979;P39019;P23396;P42677;P62701;P62847;P62851;P22090;P62263;P62841;P62241;P62753;P46783;P62244;P63220}

5057 Pathogen[ Q85601] interacts with 35 human partners:{P46783;P69905;P62857;P62244;P62854;P62081;P23396;P62273;P62753;P15880;P39019;P62701;P62241;P62263;P62861;Q9Y2R9;P62249;P62280;P08708;P62269;P62277;P62979;P62847;P42677;P63220;P46782;P62851;P62841;P22090;P08865;P61247;P46781;P25398;P60866;P62266}

5058 Pathogen[ P14079] interacts with 35 human partners:{P23396;P46781;P62847;P62753;P62273;Q9Y2R9;P25398;P46783;P69905;P62979;P62841;P62266;P46782;P62241;P22090;P60866;P62854;P39019;P63220;P62244;P62263;P62277;P08708;P62280;P62081;P42677;P15880;P08865;P62249;P61247;P62269;P62701;P62851;P62857;P62861}

5059 Pathogen[ P03383] interacts with 35 human partners:{P62266;P39019;P62854;P25398;P62280;P62249;P62753;P69905;P42677;P61247;Q9Y2R9;P62273;P62277;P62081;P08865;P62851;P46782;P62269;P63220;P62244;P62857;P46783;P60866;P62979;P62241;P46781;P62841;P22090;P62701;P62263;P62847;P62861;P15880;P23396;P08708}

5060 Pathogen[ P03410] interacts with 35 human partners:{P62861;P61247;P62241;P62244;P15880;P62841;P46781;P62269;P63220;P62847;P23396;P62266;P62249;P62280;P22090;P62979;P62701;P08865;P62277;P25398;P62854;P62273;P62081;P46783;P08708;Q9Y2R9;P46782;P62857;P62263;P39019;P69905;P62851;P62753;P60866;P42677}

5061 Pathogen[ P14075] interacts with 35 human partners:{P62857;P46781;P63220;P42677;P22090;P62277;P62851;P08865;P62244;P08708;P62249;P62081;P25398;Q9Y2R9;P62979;P61247;P62753;P46782;P62861;P62269;P62847;P62273;P23396;P62241;P15880;P62841;P62266;P46783;P62701;P39019;P62280;P62263;P62854;P60866;P69905}

5062 Pathogen[ P0C206] interacts with 35 human partners:{P62854;P62081;P62241;P62244;P08865;P46781;P62266;P62263;P62273;P62280;P62857;P62851;P46782;P61247;P69905;P62861;P23396;Q9Y2R9;P62701;P22090;P62979;P39019;P46783;P60866;P62841;P62277;P62269;P62753;P63220;P15880;P25398;P08708;P62847;P42677;P62249}

5063 Pathogen[ P03363] interacts with 34 human partners:{P69905;P23396;P42677;P08865;P62847;P62249;P62753;P62081;P62273;P08708;P15880;P22090;P62861;P62841;P46782;P46781;Q9Y2R9;P63220;P39019;P25398;P62851;P62280;P62244;P62277;P62266;P62241;P60866;P61247;P62857;P62854;P62263;P62701;P62269;P46783}

5064 [Cluster 461]GO:0005761+C cellular\_component [name] mitochondrial ribosome [def] "A ribosome found in the mitochondrion of a eukaryotic cell\_ contains a characteristic set of proteins distinct from those of cytosolic ribosomes." [GOC

5065 Pathogen[ Q2Q067] interacts with 21 human partners:{P51398;Q9HD33;Q13084;Q9BZE1;Q9BYD1;Q4U2R6;Q9Y3B7;Q13405;Q96GC5;Q9BYC8;Q9BQ48;O15235;P82650;Q9BQC6;Q9NZE8;O60783;Q9BYD2;Q9H0U6;Q8N983;Q9NQ50;Q9BYC9}

5066 Pathogen[ P0C214] interacts with 22 human partners:{Q9HD33;Q13405;Q9BYD2;Q9BYD1;Q9H0U6;Q9NYK5;O15235;Q96GC5;Q4U2R6;Q8N983;Q13084;P51398;Q9BQ48;Q9NZE8;Q9NQ50;Q9BYC9;Q9BQC6;Q9BYC8;Q9BZE1;Q9Y3B7;P82650;O60783}

5067 Pathogen[ P03346] interacts with 21 human partners:{Q9BYD1;Q8N983;Q9H0U6;Q9BYC8;Q9BQ48;Q9BYD2;Q9BYC9;P51398;P82650;O15235;Q13084;O60783;Q9NZE8;Q9NQ50;Q9HD33;Q4U2R6;Q9BQC6;Q9BZE1;Q13405;Q9Y3B7;Q96GC5}

5068 Pathogen[ Q85601] interacts with 22 human partners:{Q9BQC6;Q9BYD1;Q9Y3B7;Q4U2R6;Q9H0U6;Q9BYC8;Q9BYC9;Q9BQ48;Q9BYD2;Q13405;P51398;Q96GC5;Q8N983;O15235;Q13084;Q9NZE8;Q9NYK5;P82650;Q9HD33;Q9BZE1;Q9NQ50;O60783}

5069 Pathogen[ P14079] interacts with 22 human partners:{Q9BQC6;Q9NQ50;Q4U2R6;Q9H0U6;Q9BQ48;Q9BYD2;Q9BYC9;O60783;Q13084;Q9BZE1;P82650;Q96GC5;Q9BYD1;Q9BYC8;O15235;Q13405;Q9NZE8;Q9HD33;Q9Y3B7;P51398;Q8N983;Q9NYK5}

5070 Pathogen[ P03383] interacts with 21 human partners:{P51398;Q9BYD1;Q9BYD2;Q13084;Q9BQ48;Q9BQC6;Q9BYC9;Q13405;Q9BZE1;O60783;Q9Y3B7;Q9HD33;Q9NZE8;P82650;Q9NQ50;Q4U2R6;O15235;Q96GC5;Q8N983;Q9BYC8;Q9H0U6}

5071 Pathogen[ P03410] interacts with 22 human partners:{Q9HD33;Q8N983;O15235;Q9BYD2;P82650;Q9BQC6;Q9NYK5;O60783;Q9BYD1;Q4U2R6;Q9BYC8;Q13084;Q9BQ48;Q9NQ50;Q9NZE8;Q9BYC9;Q13405;Q9BZE1;Q9H0U6;P51398;Q96GC5;Q9Y3B7}

5072 Pathogen[ P14075] interacts with 22 human partners:{Q9BYD1;Q9BYD2;Q9NYK5;Q96GC5;Q9BQC6;Q9HD33;P82650;Q9BYC9;Q9BQ48;Q9BZE1;Q13084;Q9Y3B7;P51398;Q13405;O15235;Q8N983;O60783;Q9NZE8;Q9NQ50;Q9H0U6;Q4U2R6;Q9BYC8}

5073 Pathogen[ P0C206] interacts with 22 human partners:{Q9H0U6;Q9BQ48;O60783;Q13084;Q4U2R6;Q9BYC8;Q9NZE8;P51398;Q9HD33;Q96GC5;Q9BYC9;Q13405;Q9Y3B7;Q9BYD2;Q9BZE1;P82650;Q9BYD1;Q9NQ50;Q8N983;Q9NYK5;O15235;Q9BQC6}

5074 Pathogen[ P03363] interacts with 21 human partners:{P82650;Q9BYD2;Q96GC5;Q9NZE8;Q9BYD1;Q13405;Q9BZE1;Q9NQ50;Q9H0U6;Q9HD33;Q9Y3B7;Q4U2R6;Q9BYC8;Q8N983;O60783;Q9BQC6;Q13084;Q9BQ48;O15235;P51398;Q9BYC9}

5075 [Cluster 462]GO:0005736+C cellular\_component [name] DNA-directed RNA polymerase I complex [def] "RNA polymerase I, one of three nuclear DNA-directed RNA polymerases found in all eukaryotes, is a multisubunit complex typically it produces rRNAs. Two large subunits comprise the most conserved portion including the catalytic site and share similarity with other eukaryotic and bacterial multisubunit RNA polymerases. The remainder of the complex is composed of smaller subunits (generally ten or more), some of which are also found in RNA polymerase III and others of which are also found in RNA polymerases II and III. Although the core is competent to mediate ribonucleic acid synthesis, it requires additional factors to select the appropriate template." [GOC

5076 Pathogen[ Q2Q067] interacts with 4 human partners:{O95602;Q9H9Y6;O15446;O15160}

5077 Pathogen[ P0C214] interacts with 4 human partners:{Q9H9Y6;O15446;O15160;O95602}

5078 Pathogen[ P03346] interacts with 4 human partners:{Q9H9Y6;O15160;O15446;O95602}

5079 Pathogen[ Q85601] interacts with 4 human partners:{O95602;Q9H9Y6;O15446;O15160}

5080 Pathogen[ P14079] interacts with 4 human partners:{O15446;O15160;O95602;Q9H9Y6}

5081 Pathogen[ P03383] interacts with 3 human partners:{O95602;Q9H9Y6;O15446}

5082 Pathogen[ P03410] interacts with 4 human partners:{O95602;O15160;O15446;Q9H9Y6}

5083 Pathogen[ P14075] interacts with 3 human partners:{Q9H9Y6;O95602;O15446}

5084 Pathogen[ P0C206] interacts with 4 human partners:{O95602;O15446;Q9H9Y6;O15160}

5085 Pathogen[ P03363] interacts with 4 human partners:{Q9H9Y6;O95602;O15446;O15160}

5086 [Cluster 463]GO:0008274+C cellular\_component [name] gamma-tubulin ring complex [def] "A multiprotein complex composed of gamma-tubulin and other non-tubulin proteins that forms a flexible open ring structure thought to be the unit of nucleation at the minus end of a microtubule." [GOC

5087 Pathogen[ Q2Q067] interacts with 6 human partners:{Q96RT8;Q6P582;Q96RT7;Q08AG7;Q6NZ67;Q9UGJ1}

5088 Pathogen[ P0C214] interacts with 6 human partners:{Q6NZ67;Q96RT7;Q9UGJ1;Q96RT8;Q08AG7;Q6P582}

5089 Pathogen[ P03346] interacts with 6 human partners:{Q6P582;Q6NZ67;Q96RT8;Q9UGJ1;Q08AG7;Q96RT7}

5090 Pathogen[ Q85601] interacts with 6 human partners:{Q96RT8;Q6NZ67;Q9UGJ1;Q08AG7;Q6P582;Q96RT7}

5091 Pathogen[ P14079] interacts with 6 human partners:{Q9UGJ1;Q6P582;Q08AG7;Q96RT8;Q96RT7;Q6NZ67}

5092 Pathogen[ P03383] interacts with 3 human partners:{Q6NZ67;Q08AG7;Q6P582}

5093 Pathogen[ P03410] interacts with 6 human partners:{Q96RT8;Q08AG7;Q6NZ67;Q96RT7;Q6P582;Q9UGJ1}

5094 Pathogen[ P14075] interacts with 3 human partners:{Q6NZ67;Q6P582;Q08AG7}

5095 Pathogen[ P0C206] interacts with 5 human partners:{Q96RT7;Q9UGJ1;Q6P582;Q08AG7;Q6NZ67}

5096 Pathogen[ P03363] interacts with 6 human partners:{Q6P582;Q96RT8;Q08AG7;Q96RT7;Q9UGJ1;Q6NZ67}

5097 [Cluster 464]GO:0005814+C cellular\_component [name] centriole [def] "A cellular organelle, found close to the nucleus in many eukaryotic cells, consisting of a small cylinder with microtubular walls, 300-500 nm long and 150-250 nm in diameter. It contains nine short, parallel, peripheral microtubular fibrils, each fibril consisting of one complete microtubule fused to two incomplete microtubules. Cells usually have two centrioles, lying at right angles to each other. At division, each pair of centrioles generates another pair and the twin pairs form the pole of the mitotic spindle." [ISBN

5098 Pathogen[ Q2Q067] interacts with 38 human partners:{Q12798;Q9NS56;Q9UJT2;Q5SW79;Q8N137;Q8N0Z3;Q9HC77;Q9UPV0;A8K8P3;Q86YF9;Q9C099;Q5BJF6;Q8IY31;P11388;Q8TEP8;Q9BYV8;Q66GS9;O43303;Q8TES7;P41002;Q53HC0;Q99550;O75665;Q53EZ4;O60308;Q5TZA2;Q6UVJ0;Q96JN8;Q8NA72;P41208;Q86SQ7;O15182;O95613;Q8N4C6;O15392;Q9BV73;Q96CW5;Q8TAP6}

5099 Pathogen[ P0C214] interacts with 39 human partners:{Q8IY31;P41002;Q5SW79;Q9NS56;Q53HC0;Q8NA72;A8K8P3;Q9C099;Q9BYV8;Q9HC77;Q96CW5;Q8TEP8;Q9UPV0;O43303;Q12798;Q66GS9;Q9UJT2;Q53EZ4;Q96LK0;Q9NXG0;Q99550;P11388;Q8TAP6;Q8TES7;P41208;O75665;O15392;Q9BV73;Q5BJF6;Q8N0Z3;Q86SQ7;O95613;Q8N4C6;Q86YF9;O60308;Q6UVJ0;Q5TZA2;Q96JN8;Q8N137}

5100 Pathogen[ P03346] interacts with 45 human partners: {O15392;P11388;Q8IY31;O95714;Q8N137;O60308;Q9NXG0;Q8NA72;Q9HC77;Q96CW5;Q53HC0;P41002;Q96LK0;Q8N0Z3;Q8TEP8;Q86YF9;P41208;Q9NS56;Q66GS9;O75665;Q86SQ7;Q9UJT2;Q53EZ4;Q8TAP6;Q6ZU80;Q5BJF6;Q8N157;Q9C099;Q9BYV8;Q5TZA2;Q99550;Q12798;Q9Y6F1;Q8TES7;Q96JN8;O95613;O15182;Q8N4C6;A8K8P3;Q6UVJ0;Q5SW79;O43303;Q9UPV0;O00444;Q9BV73}

5101 Pathogen[ Q85601] interacts with 42 human partners: {Q53EZ4;Q8N137;Q9NS56;Q6UVJ0;O15182;O95714;Q12798;O60308;Q9HC77;Q9C099;O15392;Q5BJF6;Q96CW5;Q53HC0;P41002;O43303;Q8TEP8;Q9UPV0;Q96LK0;Q9Y6F1;Q66GS9;Q86SQ7;O75665;Q8TES7;Q9BV73;Q9BYV8;P11388;Q99550;Q9NXG0;Q8TAP6;Q5TZA2;Q5SW79;Q96JN8;O95613;Q8N0Z3;Q8N4C6;A8K8P3;Q9UJT2;Q8IY31;Q86YF9;Q8NA72;P41208}

5102 Pathogen[ P14079] interacts with 48 human partners: {P11388;Q8NA72;Q5TZA2;Q6UVJ0;Q8IY31;Q8TEP8;Q8N157;Q9NXG0;Q66GS9;O15392;Q9BV73;O95954;A8K8P3;Q8TAP6;Q8IYY4;Q6ZU80;Q96LK0;Q5BJF6;Q8N4C6;Q8NBT0;Q12798;P41002;Q8TCU4;Q9NS56;Q5SW79;Q8N0Z3;O43303;Q9NZ20;Q9C099;Q86SQ7;P41208;Q8TC44;Q8TES7;O95613;Q86YF9;Q8N137;O15182;O75665;Q9HC77;Q9BYV8;Q6IQ19;Q9Y6F1;Q9UJT2;O60308;Q53EZ4;Q99550;Q96CW5;Q9UPV0}

5103 Pathogen[ P03383] interacts with 32 human partners: {P41002;Q8N0Z3;Q6UVJ0;Q8IY31;Q96CW5;O43303;P41208;Q9BV73;Q9HC77;Q12798;Q8TES7;A8K8P3;Q8TEP8;O60308;Q5TZA2;Q66GS9;Q86SQ7;Q9UJT2;Q9BYV8;Q5BJF6;Q9UPV0;Q8TAP6;Q86YF9;Q8N137;Q5SW79;Q8NA72;O95613;Q9C099;Q8N4C6;O75665;Q53EZ4;Q53HC0}

5104 Pathogen[ P03410] interacts with 47 human partners: {Q9UJT2;O75665;O15392;Q8TEP8;O43303;Q66GS9;Q9HC77;Q96LK0;Q6UVJ0;Q8NBT0;O95954;O15182;Q8TCU4;Q12798;Q8N137;Q9BYV8;P41002;Q9Y6F1;O60308;Q8N0Z3;Q86YF9;Q6IQ19;Q8TAP6;Q8IY31;Q5TZA2;Q8N157;Q99550;Q8N4C6;Q86SQ7;Q5BJF6;Q9NZ20;Q53EZ4;Q6ZU80;Q8NA72;P11388;Q96JN8;Q8TC44;Q9UPV0;Q9C099;Q96CW5;Q9NXG0;Q5SW79;O95613;Q8TES7;P41208;Q9BV73;A8K8P3}

5105 Pathogen[ P14075] interacts with 33 human partners: {O43303;Q9BYV8;O60308;Q86SQ7;Q8IY31;A8K8P3;Q9HC77;Q6UVJ0;Q5TZA2;Q12798;Q53HC0;Q8TEP8;Q9UPV0;Q66GS9;Q5SW79;Q5BJF6;Q8TES7;Q6IQ19;Q9BV73;Q8N137;Q9C099;Q8TAP6;P41208;Q53EZ4;O75665;O95613;Q8N4C6;P41002;Q86YF9;Q96CW5;Q9UJT2;Q8NA72;Q8N0Z3}

5106 Pathogen[ P0C206] interacts with 47 human partners: {Q5SW79;O15182;Q8N137;Q9NS56;Q9C099;Q9HC77;Q86SQ7;Q5BJF6;Q8NA72;Q8IY31;Q86YF9;Q5TZA2;Q8TCU4;Q96CW5;O00444;Q6UVJ0;A8K8P3;Q9UPV0;Q99550;Q96JN8;Q9Y6F1;Q8TEP8;O60308;O95954;Q9UJT2;Q8TAP6;Q6ZU80;O95613;Q6IQ19;Q96LK0;Q66GS9;Q8N157;Q9BYV8;Q9BV73;O15392;O75665;Q53HC0;Q9NXG0;P41208;Q8N0Z3;P11388;Q12798;Q8N4C6;P41002;O95714;O43303;Q8TES7}

5107 Pathogen[ P03363] interacts with 44 human partners: {Q5BJF6;A8K8P3;Q9HC77;Q9BYV8;Q9NXG0;O60308;Q8NBT0;Q66GS9;O43303;Q8TES7;Q99550;O95613;Q9C099;Q8TAP6;Q96LK0;Q96JN8;P41208;P41002;Q8TEP8;Q5TZA2;Q53HC0;Q53EZ4;Q12798;Q8N157;Q8IY31;Q6IQ19;Q8N0Z3;Q6ZU80;Q9UPV0;O15182;O95714;Q8NA72;Q8N4C6;Q86YF9;Q86SQ7;Q9UJT2;Q9BV73;Q9Y6F1;Q8TC44;Q6UVJ0;O75665;Q96CW5;Q8N137;Q5SW79}

5108 [Cluster 465]GO:0031463+ cellular\_component [name] Cul3-RING ubiquitin ligase complex [def] "A ubiquitin ligase complex in which a cullin from the Cul3 subfamily and a RING domain protein form the catalytic core\_ substrate specificity is conferred by a BTB-domain-containing protein." [PMID]

5109 Pathogen[ Q2Q067] interacts with 8 human partners: {Q13829;Q8IXQ5;Q53G59;Q13618;Q9Y2M5;Q9H3F6;Q9UH77;P62877}

5110 Pathogen[ P0C214] interacts with 10 human partners: {Q13829;Q9UJP4;Q13618;P62877;Q53G59;Q9Y2M5;Q8WZ19;Q8IXQ5;Q9H3F6;Q9UH77}

5111 Pathogen[ P03346] interacts with 12 human partners: {Q53GT1;Q9P2N7;Q8WZ19;Q9UH77;Q8IXQ5;Q13618;Q13829;P62877;Q9P2J3;Q9H3F6;Q9Y2M5;Q9UJP4}

5112 Pathogen[ Q85601] interacts with 11 human partners: {Q8WZ19;P62877;Q9UJP4;Q8IXQ5;Q9P2J3;Q9Y2M5;Q13618;Q9H3F6;Q53G59;Q13829;Q9UH77}

5113 Pathogen[ P14079] interacts with 8 human partners: {Q13618;P62877;Q9Y2M5;Q9UH77;Q9UJP4;Q13829;Q53G59;Q9H3F6}

5114 Pathogen[ P03383] interacts with 7 human partners: {Q13618;Q53G59;Q9UH77;P62877;Q9Y2M5;Q9H3F6;Q13829}

5115 Pathogen[ P03410] interacts with 11 human partners: {Q9UH77;Q53G59;Q13829;Q8IXQ5;Q8WZ19;Q9P2J3;Q9H3F6;Q13618;P62877;Q9UJP4;Q9Y2M5}

5116 Pathogen[ P14075] interacts with 7 human partners: {Q13618;Q53G59;Q9UH77;Q9H3F6;Q9Y2M5;Q13829;P62877}

5117 Pathogen[ P0C206] interacts with 12 human partners: {Q9P2N7;Q8IXQ5;Q13829;P62877;Q9UJP4;Q8WZ19;Q13618;Q9P2J3;Q9H3F6;Q9Y2M5;Q53G59;Q9UH77}

5118 Pathogen[ P03363] interacts with 13 human partners: {Q9P2N7;Q13618;Q8IXQ5;P62877;Q9Y2M5;Q53G59;Q9H3F6;Q13829;Q9P2J3;Q9UJP4;Q9UH77;Q53GT1;Q8WZ19}

5119 [Cluster 466]GO:0005796+ cellular\_component [name] Golgi lumen [def] "The volume enclosed by the membranes of any cisterna or subcompartment of the Golgi apparatus, including the cis- and trans-Golgi networks." [GOC]

5120 Pathogen[ Q2Q067] interacts with 2 human partners: {Q9H2G9;Q13356}

5121 Pathogen[ P0C214] interacts with 2 human partners: {Q13356;Q9H2G9}

5122 Pathogen[ P03346] interacts with 2 human partners: {Q9H2G9;Q13356}

5123 Pathogen[ Q85601] interacts with 2 human partners: {Q13356;Q9H2G9}

5124 Pathogen[ P14079] interacts with 10 human

5125 partners:{Q8N307;P60022;O00461;Q9H2G9;O15263;Q13356;Q8TAX7;P15941;Q5SSG8;P81534}  
 Pathogen[ P03383] interacts with 2 human partners:{Q13356;Q9H2G9}

5126 Pathogen[ P03410] interacts with 12 human  
 partners:{Q9H2G9;Q5SSG8;P15941;Q8N307;P60022;Q8TAX7;O00461;Q13356;Q96DR8;Q9BRK5;P8153  
 4;O15263}

5127 Pathogen[ P14075] interacts with 3 human partners:{Q9H2G9;O00461;Q8TAX7}

5128 Pathogen[ P0C206] interacts with 4 human partners:{O00461;Q13356;Q9H2G9;Q8TAX7}

5129 Pathogen[ P03363] interacts with 2 human partners:{Q13356;Q9H2G9}

5130 [Cluster 467]GO:0008537+C cellular\_component [name] proteasome activator complex [def]  
 "A multisubunit complex that activates the hydrolysis of small nonubiquitinated peptides  
 by binding to the proteasome core complex." [GOC]

5131 Pathogen[ Q2Q067] interacts with 3 human partners:{Q06323;Q9UL46;P61289}

5132 Pathogen[ P0C214] interacts with 2 human partners:{Q9UL46;Q06323}

5133 Pathogen[ P03346] interacts with 3 human partners:{Q9UL46;P61289;Q06323}

5134 Pathogen[ Q85601] interacts with 3 human partners:{P61289;Q9UL46;Q06323}

5135 Pathogen[ P14079] interacts with 3 human partners:{P61289;Q06323;Q9UL46}

5136 Pathogen[ P03383] interacts with 3 human partners:{Q06323;Q9UL46;P61289}

5137 Pathogen[ P03410] interacts with 3 human partners:{Q06323;Q9UL46;P61289}

5138 Pathogen[ P14075] interacts with 3 human partners:{Q06323;Q9UL46;P61289}

5139 Pathogen[ P0C206] interacts with 3 human partners:{P61289;Q06323;Q9UL46}

5140 Pathogen[ P03363] interacts with 1 human partners:{P61289}

5141 [Cluster 468]GO:0005791+C cellular\_component [name] rough endoplasmic reticulum [def]  
 "The rough (or granular) endoplasmic reticulum (ER) has ribosomes adhering to the outer  
 surface\_ the ribosomes are the site of translation of the mRNA for those proteins which  
 are either to be retained within the cisternae (ER-resident proteins), the proteins of  
 the lysosomes, or the proteins destined for export from the cell. Glycoproteins undergo  
 their initial glycosylation within the cisternae." [ISBN]

5142 Pathogen[ Q2Q067] interacts with 3 human partners:{Q15596;Q5BJF2;O95793}

5143 Pathogen[ P0C214] interacts with 2 human partners:{O95793;Q15596}

5144 Pathogen[ P03346] interacts with 3 human partners:{Q5BJF2;O95793;Q15596}

5145 Pathogen[ Q85601] interacts with 2 human partners:{O95793;Q15596}

5146 Pathogen[ P14079] interacts with 5 human  
 partners:{O95793;Q15596;Q99442;Q5BJF2;O43612}

5147 Pathogen[ P03383] interacts with 2 human partners:{Q15596;Q5BJF2}

5148 Pathogen[ P03410] interacts with 6 human  
 partners:{Q99442;O43612;P55157;Q15596;O95793;Q5BJF2}

5149 Pathogen[ P14075] interacts with 2 human partners:{Q15596;Q5BJF2}

5150 Pathogen[ P0C206] interacts with 3 human partners:{Q5BJF2;O95793;Q15596}

5151 Pathogen[ P03363] interacts with 3 human partners:{O95793;Q15596;Q5BJF2}

5152 [Cluster 469]GO:0030670+C cellular\_component [name] phagocytic vesicle membrane [def]  
 "The lipid bilayer surrounding a phagocytic vesicle." [GOC]

5153 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96NA2}

5154 Pathogen[ P0C214] interacts with 1 human partners:{Q96NA2}

5155 Pathogen[ P03346] interacts with 2 human partners:{Q96NA2;Q93050}

5156 Pathogen[ Q85601] interacts with 2 human partners:{Q93050;Q96NA2}

5157 Pathogen[ P14079] interacts with 5 human  
 partners:{Q96NA2;P61421;P13498;Q8N8Y2;Q93050}

5158 Pathogen[ P03383] interacts with 1 human partners:{Q96NA2}

5159 Pathogen[ P03410] interacts with 4 human partners:{Q8N8Y2;P61421;Q93050;Q96NA2}

5160 Pathogen[ P14075] interacts with 1 human partners:{Q96NA2}

5161 Pathogen[ P0C206] interacts with 2 human partners:{Q96NA2;Q93050}

5162 Pathogen[ P03363] interacts with 1 human partners:{Q96NA2}

5163 [Cluster 470]GO:0012506+C cellular\_component [name] vesicle membrane [def] "The lipid  
 bilayer surrounding any membrane-bounded vesicle in the cell." [GOC]

5164 Pathogen[ Q2Q067] interacts with 6 human  
 partners:{O43639;Q9BZE9;P16333;P42768;Q9UKG1;P14672}

5165 Pathogen[ P0C214] interacts with 8 human  
 partners:{P62993;Q9UM54;Q9UKG1;O43639;Q9BZE9;P16333;P42768;P14672}

5166 Pathogen[ P03346] interacts with 8 human  
 partners:{O14908;O43639;P42768;P62993;Q9BZE9;P16333;Q9UKG1;P14672}

5167 Pathogen[ Q85601] interacts with 8 human  
 partners:{P62993;P16333;O43639;Q9BZE9;P42768;Q9UKG1;Q9UM54;P14672}

5168 Pathogen[ P14079] interacts with 9 human  
 partners:{Q9UKG1;P14672;Q9BZE9;Q9UM54;P16333;P62993;O43639;O14908;P42768}

5169 Pathogen[ P03383] interacts with 4 human partners:{Q9BZE9;P42768;P14672;P16333}

5170 Pathogen[ P03410] interacts with 8 human  
 partners:{Q9BZE9;O43639;O14908;P42768;P16333;Q9UM54;P62993;Q9UKG1}

5171 Pathogen[ P14075] interacts with 4 human partners:{P42768;P16333;P14672;Q9BZE9}

5172 Pathogen[ P0C206] interacts with 9 human  
 partners:{Q9UKG1;Q9UM54;Q9BZE9;P62993;O14908;P16333;P14672;P42768;O43639}

5173 Pathogen[ P03363] interacts with 7 human  
 partners:{O14908;P42768;O43639;P16333;Q9BZE9;P14672;Q9UKG1}

5174 [Cluster 471]GO:0070776+C cellular\_component [name] MOZ/MORF histone acetyltransferase  
 complex [def] "A histone acetyltransferase complex that has histone H3 acetyltransferase  
 and coactivator activities. Subunits of the human complex include MYST3/MOZ, MYST4/MORF,  
 ING5, EAF6 and one of BRPF1, BRD1/BRPF2 and BRPF3." [PMID]

5175 Pathogen[ Q2Q067] interacts with 2 human partners: {Q8WYH8;Q9HAF1}

5176 Pathogen[ P0C214] interacts with 2 human partners: {Q9HAF1;Q8WYH8}

5177 Pathogen[ P03346] interacts with 4 human partners: {Q8WYB5;Q8WYH8;Q92794;Q9HAF1}

5178 Pathogen[ Q85601] interacts with 2 human partners: {Q9HAF1;Q8WYH8}

5179 Pathogen[ P14079] interacts with 2 human partners: {Q9HAF1;Q8WYH8}

5180 Pathogen[ P03383] interacts with 2 human partners: {Q8WYH8;Q9HAF1}

5181 Pathogen[ P03410] interacts with 1 human partners: {Q8WYH8}

5182 Pathogen[ P14075] interacts with 2 human partners: {Q9HAF1;Q8WYH8}

5183 Pathogen[ P0C206] interacts with 2 human partners: {Q8WYH8;Q9HAF1}

5184 Pathogen[ P03363] interacts with 2 human partners: {Q9HAF1;Q8WYH8}

5185 [Cluster 472]GO:0044459+C cellular\_component [name] plasma membrane part [def] "Any constituent part of the plasma membrane, the membrane surrounding a cell that separates the cell from its external environment. It consists of a phospholipid bilayer and associated proteins." [GOC

5186 Pathogen[ Q2Q067] interacts with 2 human partners: {P09497;P14625}

5187 Pathogen[ P0C214] interacts with 3 human partners: {P14625;P10809;P09497}

5188 Pathogen[ P03346] interacts with 2 human partners: {P14625;P09497}

5189 Pathogen[ Q85601] interacts with 2 human partners: {P09497;P14625}

5190 Pathogen[ P14079] interacts with 2 human partners: {P09497;P14625}

5191 Pathogen[ P03383] interacts with 2 human partners: {P14625;P09497}

5192 Pathogen[ P03410] interacts with 2 human partners: {P14625;P09497}

5193 Pathogen[ P14075] interacts with 2 human partners: {P09497;P14625}

5194 Pathogen[ P0C206] interacts with 2 human partners: {P09497;P14625}

5195 Pathogen[ P03363] interacts with 1 human partners: {P09497}

5196 [Cluster 473]GO:0031595+C cellular\_component [name] nuclear proteasome complex [def] "A proteasome found in the nucleus of a cell." [GOC

5197 Pathogen[ Q2Q067] interacts with 1 human partners: {Q9NRR5}

5198 Pathogen[ P0C214] interacts with 1 human partners: {Q9NRR5}

5199 Pathogen[ P03346] interacts with 1 human partners: {Q9NRR5}

5200 Pathogen[ Q85601] interacts with 1 human partners: {Q9NRR5}

5201 Pathogen[ P14079] interacts with 1 human partners: {Q9NRR5}

5202 Pathogen[ P03383] interacts with 1 human partners: {Q9NRR5}

5203 Pathogen[ P03410] interacts with 1 human partners: {Q9NRR5}

5204 Pathogen[ P14075] interacts with 1 human partners: {Q9NRR5}

5205 Pathogen[ P0C206] interacts with 1 human partners: {Q9NRR5}

5206 Pathogen[ P03363] interacts with 1 human partners: {Q9NRR5}

5207 [Cluster 474]GO:0016607+C cellular\_component [name] nuclear speck [def] "A discrete extra-nucleolar subnuclear domain, 20-50 in number, in which splicing factors are seen to be localized by immunofluorescence microscopy." [http

5208 Pathogen[ Q2Q067] interacts with 106 human partners: {Q8NHY2;O00213;Q92585;Q96FV9;O15234;Q8IZL2;Q12837;Q8IZD2;O75925;Q9NS56;Q05066;O95391;P61326;O75494;Q13427;Q8TF01;O75940;Q9BWG6;Q16666;O43447;Q6PD62;Q9P0U4;Q01130;Q15233;Q8WWY3;Q8WTT2;O95400;P49750;Q05516;O00257;O43172;P38919;Q9UIS9;Q9UBU9;Q9H307;Q96JC9;P08107;Q86YP4;Q13838;Q07955;Q86TB9;O75928;Q9ULJ6;O75400;O94906;Q6PJT7;P49756;P63165;P27695;P08621;Q12972;Q9Y3M2;Q9BY77;Q96CJ1;P55199;P84103;Q8IYB3;Q14997;Q14498;Q86V81;P51816;Q8N5M1;Q96IZ7;P36873;Q6P2Q9;Q96PM5;Q9UBB9;Q6K0P9;Q9Y5S9;Q01081;O75533;O1527;Q13243;Q9BT49;O95232;Q9NRA8;Q96S94;Q86X95;Q9UKV3;Q15029;Q9Y383;Q5HYJ3;Q9UQ35;Q13526;Q7RTV0;P80723;O43395;Q9H0G5;P50222;Q9H040;Q9Y2W2;Q02040;P18583;Q14331;Q8WXF1;Q9UMS4;Q96GM8;Q96JK9;Q96QD9;Q99459;Q12874;Q06587;Q9BTA9;O43660;Q03112;Q9UK58}

5209 Pathogen[ P0C214] interacts with 107 human partners: {Q9BY77;Q14997;Q96S94;Q96GM8;Q9Y2W2;Q96FV9;O00213;Q92585;Q96CJ1;O15234;P27695;Q96PM5;Q9H040;Q14331;O43172;Q9BT49;O75925;Q8IZL2;P84103;Q86V81;Q9Y5S9;Q6K0P9;O95400;Q8WTT2;Q9NS56;Q03112;Q15029;Q9P2N5;Q13526;Q15233;Q6P2Q9;Q9H307;Q6PJT7;Q16666;Q13427;Q8NHY2;Q9ULJ6;O43395;O95232;O94906;Q9UK58;Q9UMS4;Q96IZ7;Q07955;Q9BWG6;Q9UIS9;Q8IYB3;P18583;Q12837;P49750;P08621;Q8WXF1;P63165;Q06587;Q99459;P61326;Q9Y3M2;P38919;Q86YP4;P55199;Q13243;P50222;O00257;Q7RTV0;Q86TB9;Q9H0G5;P51816;Q01081;Q96JK9;O75533;Q8N5M1;O75940;Q12874;O75494;Q15287;O43447;Q3ZCQ8;P36873;Q9UQ35;Q8TF01;P80723;Q12972;Q9BTA9;Q9UKV3;Q96QD9;O15527;O95391;Q02040;Q9Y383;P08107;Q96JC9;Q13838;Q6PD62;Q14498;Q86X95;O43660;O75400;Q9UBB9;P49756;Q14966;Q05516;Q9UBU9;Q8IZD2;Q01130;Q8WWY3;O75928;Q9NRA8}

5210 Pathogen[ P03346] interacts with 122 human partners: {P08107;Q9Y5S9;Q96FV9;O95400;Q9BZE0;Q6PD62;O00213;Q92585;Q96CJ1;Q12874;O15234;O43172;Q16666;Q8WXF1;Q08170;Q8IYB3;Q5HYJ3;Q96S94;O43447;Q99633;Q7RTV0;Q05066;Q9Y3M2;Q8WTT2;Q9P2N5;O95391;O75400;Q12837;Q8NHY2;P80723;Q9UMS4;Q14498;Q9H307;Q8N5M1;Q96PM5;P49750;P38919;Q9Y383;O75940;P18583;P08621;O00257;Q13526;Q86Z02;O94906;Q07955;Q9ULJ6;Q13427;Q9BWG6;Q9UKV3;Q92766;Q9BWF3;Q9H0G5;O75925;P50222;Q9BT49;Q86TB9;Q9NS56;Q86V81;O95232;Q9UIS9;Q8IYM9;Q15020;O43660;Q9P0U4;Q86U44;Q86YP4;Q9BY77;P36873;Q03112;Q9H040;P49756;P63165;Q96QD9;Q01081;O75533;Q9UK58;Q96JC9;P61326;Q13838;Q96GM8;O75554;Q14966;Q99459;Q8WWY3;Q6P2Q9;P84103;Q9UQ35;Q05516;P55199;Q15233;Q15287;Q01130;Q3ZCQ8;Q9UBU9;Q14997;Q9BZJ0;P27695;Q02040;Q9NRA8;Q13243;Q96IZ7;Q86X95;Q15029;O75928;O15527;Q9Y2W2;O75494;Q6PJT7;Q6K0P9;Q12972;Q06587;P51816;Q8IZD2;Q86XP3;Q96JK9;Q8IZL2;Q9BTA9;Q6NHY9;Q14331;Q8TF01;O43395}

5211 Pathogen[ Q85601] interacts with 104 human partners: {Q6PD62;O00213;Q92585;Q96CJ1;O15234;P49756;O15527;Q96JK9;Q16666;P08107;Q9BT49;Q9NS56;O75928;Q9Y383;Q9Y2W2;Q8IYB3;Q7RTV0;Q13243;Q9H040;Q9Y3M2;Q9UK58;Q01130;Q9H307;Q9UBU9;Q14331;Q8WTT2;Q9P2N5;Q14966;O95391;O75400;Q8TF01;Q03112;Q9UMS4;P61326;Q96PM5;Q15287;Q9BTA9;P08621;Q8WXF1;Q86V81;O75494;O75940;O94906;Q07955;P80723;Q13427;Q9UBB9;Q

- 86TB9;P38919;Q96FV9;Q9BY77;Q9H0G5;Q6PJT7;P50222;Q9P0U4;Q96JC9;Q9UIS9;O95232;Q9UKV3;Q13838;Q86YP4;Q13526;P36873;Q12972;Q15029;Q8IYM9;Q96QD9;Q96GM8;Q99459;Q01081;Q8IZL2;Q9UQ35;Q3ZCQ8;O43395;Q8WWY3;Q96S94;P84103;P55199;Q05516;Q15233;O95400;Q6P2Q9;Q96IZ7;P63165;O43447;P18583;Q9NRA8;O43660;O00257;Q12837;O43172;O75925;Q8NHY2;Q6K0P9;Q06587;Q14498;P27695;Q8IZD2;Q8N5M1;Q9ULJ6;Q86X95;Q12874;Q9Y5S9;P49750}
- 5212 Pathogen[ P14079] interacts with 107 human partners: {Q3ZCQ8;Q8N5M1;Q99459;O43447;Q14004;P55199;Q15287;Q9UIS9;Q06413;O75400;O94906;Q9Y2W2;Q99633;O75928;Q8TF01;Q96CJ1;P36873;O75533;Q96JK9;Q96JC9;Q12874;Q9BTA9;Q13243;Q9Y5S9;Q9H040;Q6PJT7;Q86TB9;Q8WTT2;Q96S94;Q14966;Q05516;Q9UBU9;Q13838;Q6K0P9;O00213;Q9Y383;Q9BWG6;Q8IZL2;Q15029;Q13427;Q5HYJ3;Q86YP4;Q6P2Q9;O15527;P63165;Q14498;Q12837;Q6PD62;Q9H307;Q9BY77;Q8WWY3;Q96FV9;Q86U44;O95400;Q8IYB3;O75940;P61326;Q14997;P49756;Q9UMS4;O00257;Q9UK58;Q02040;Q9UKV3;Q7RTV0;P08107;P08621;Q9UQ35;Q86V81;Q96IZ7;Q9UBB9;P27695;Q9NS56;Q07955;Q9H0G5;Q9P0U4;Q12972;Q9Y3M2;O75925;Q01081;P49750;Q14331;O95232;Q96GM8;P80723;Q9P2N5;P51816;Q9BT49;Q13526;Q96QD9;O43172;O75494;Q15233;Q9ULJ6;P18583;Q86X95;Q92585;Q9NRA8;O43395;O15234;Q9BZE0;P50222;O95391;P84103;Q16666;Q8NHY2;Q06587}
- 5213 Pathogen[ P03383] interacts with 101 human partners: {P08107;Q9NYV4;O00213;Q9UBU9;Q92585;Q07955;P55199;O75925;O15234;Q15287;Q96JK9;Q9UK58;Q6PJT7;O75494;Q8TF01;Q02040;Q96IZ7;Q9BTA9;Q15029;O43172;Q86YP4;Q96CJ1;Q6PD62;Q13838;O15527;Q9Y5S9;Q8WTT2;Q8IZL2;O00257;Q96FV9;Q12972;P50222;P61326;Q06587;Q6P2Q9;P38919;O95400;Q12874;Q13243;Q14997;Q8WXF1;Q14331;P51816;O75400;Q99459;Q05516;Q86V81;Q9Y2W2;O94906;P49756;P36873;O43447;O43395;Q8IYB3;Q03112;Q13427;P18583;P84103;Q9H040;Q9UKV3;Q01130;Q9Y383;Q96QD9;P49756;P63165;Q12837;Q96PM5;Q01081;Q86TB9;Q9Y3M2;Q16666;Q9BY77;Q96GM8;Q6K0P9;Q9BWG6;Q9H307;O95232;Q8WWY3;Q9UQ35;P80723;Q9NRA8;Q15233;P27695;Q96JC9;Q9UBB9;Q5HYJ3;Q8N5M1;Q9H0G5;Q86X95;Q8NHY2;Q9ULJ6;P08621;Q9BT49;O95391;Q9UMS4;Q7RTV0;Q13526;O75940;Q9UIS9;O75928;Q14498}
- 5214 Pathogen[ P03410] interacts with 107 human partners: {P49750;Q13838;Q8NHY2;Q8WTT2;Q5HYJ3;Q9H040;O75925;Q01081;Q03112;Q16666;P61326;O15234;Q8WWY3;Q15029;Q6PD62;Q9P0U4;Q15233;Q6PJT7;P63165;Q15287;Q14997;P50222;Q9Y3M2;Q13526;Q9Y5S9;Q9H0G5;Q9NRA8;O75928;O00213;Q99633;Q9BWG6;Q86YP4;Q9BT49;Q9UBB9;Q9ULJ6;Q96IZ7;Q8TF01;Q9P2N5;Q92585;Q96FV9;Q96QD9;Q9UQ35;P08621;O94906;Q8IZL2;Q9Y2W2;P55199;Q96JK9;Q14966;P49756;Q96JC9;Q9UKV3;Q99459;O75400;O43172;Q96GM8;Q3ZCQ8;Q07955;P08107;O15527;O43660;O43395;Q8WXF1;O75533;Q86V81;Q6K0P9;Q9UBU9;P18583;P36873;Q96S94;Q8IYB3;P38919;Q86X95;O95400;Q96CJ1;O95232;Q01130;Q9BTA9;Q9UIS9;P27695;Q86TB9;Q9BY77;Q7RTV0;Q9UMS4;Q12972;P80723;Q9Y383;Q14498;Q06587;P51816;Q6P2Q9;Q8N5M1;P84103;O00257;Q86U44;Q9UK58;Q12837;O75940;Q13243;Q12874;Q13427;O43447;O95391;Q9H307;O75494;Q14331;Q02040}
- 5215 Pathogen[ P14075] interacts with 101 human partners: {Q9H307;O00213;Q92585;O15234;P63165;Q96GM8;O95232;Q96PM5;Q8WXF1;Q86X95;P51816;P08621;Q86V81;Q13243;O43395;P49756;P27695;Q8WTT2;Q6PJT7;P61326;O95391;P80723;O15527;Q12837;Q96IZ7;Q8TF01;O95400;P49750;Q01130;O75925;O43172;Q02040;Q8N5M1;Q9H040;O75494;Q9BT49;Q16666;Q9UQ35;O94906;Q6K0P9;Q9UKV3;P36873;Q15029;O75400;Q99459;Q96QD9;O00257;Q06587;Q96JC9;Q9Y2W2;Q12874;Q13526;Q9UBB9;Q6PD62;Q15287;Q9UIS9;Q86TB9;Q9BTA9;Q96CJ1;Q6P2Q9;O75928;Q01081;Q9UMS4;Q96JK9;Q8IYB3;Q8NHY2;Q03112;Q15233;Q14997;P55199;O43447;Q9UK58;Q9Y383;P08107;Q9Y5S9;Q05516;Q13427;P84103;Q9ULJ6;Q9NRA8;Q9UBU9;Q5HYJ3;Q9Y3M2;Q9H0G5;Q12972;Q14331;Q8IZL2;P38919;Q96FV9;Q13838;Q9NYV4;P18583;Q8WWY3;P50222;Q14498;Q9BWG6;Q9BY77;Q86YP4;Q07955;Q7RTV0}
- 5216 Pathogen[ P0C206] interacts with 110 human partners: {P27695;Q15287;Q9UMS4;Q8N5M1;Q9NS56;Q9BZE0;Q9P2N5;Q9P0U4;Q6K0P9;Q6PD62;Q07955;Q86TB9;Q14997;P61326;Q01081;Q8TF01;Q13526;P18583;O15527;O75925;Q14966;Q9BT49;Q05066;Q5HYJ3;Q15233;Q8IYB3;Q05516;Q8WTT2;O95232;Q96JK9;Q9BY77;O75533;O75940;P51816;Q9H307;Q9ULJ6;Q9Y383;Q16666;Q13243;Q12874;O75494;Q96S94;Q86YP4;Q02040;Q9H0G5;Q9UBB9;Q12837;Q9UQ35;O00213;Q3ZCQ8;Q9BWG6;Q9UK58;Q86X95;Q96FV9;Q03112;Q9UIS9;O95400;Q8NHY2;Q13838;Q8IZL2;Q9UBU9;Q96CJ1;P80723;Q13427;Q6PJT7;Q8WXF1;Q06587;O43395;Q6P2Q9;Q7RTV0;O15234;P08107;P49750;Q8WWY3;Q9BTA9;O43172;Q99459;O43447;Q96JC9;Q96IZ7;P84103;O75400;Q96QD9;Q8IYM9;Q96PM5;O94906;P49756;P55199;Q14331;Q12972;P63165;O43660;P38919;O00257;Q96GM8;O95391;Q9Y2W2;P08621;Q01130;P36873;Q9H040;Q14498;Q92585;Q8IZD2;Q9Y5S9;Q86V81;Q9UKV3;Q9NRA8;Q15029;P50222}
- 5217 Pathogen[ P03363] interacts with 117 human partners: {Q86X95;Q96S94;Q15020;O75940;Q15233;O43395;Q96JC9;Q6NHY9;Q13427;Q8WTT2;Q96IZ7;Q9Y2W2;Q92766;O15527;P38919;Q9NRA8;Q9Y383;P36873;Q12972;O95391;O95400;Q86YP4;Q8N5M1;P55199;Q9UKV3;Q08170;O95232;Q14331;Q03112;O00213;Q96GM8;O75533;Q9H0G5;Q7RTV0;Q9H307;Q96JK9;Q9P0U4;Q9Y3M2;Q01130;Q6P2Q9;Q8TF01;Q86U44;Q3ZCQ8;O15047;P49756;Q9UBU9;Q8WWY3;Q13526;Q9BWF3;Q96FV9;O43447;Q9P2N5;P61326;Q16666;Q96QD9;Q15029;Q15287;O75400;Q9UK58;Q05066;Q8IYB3;P63165;P18583;Q9BY77;P08107;Q6K0P9;Q12874;O43172;Q14966;Q13243;Q86V81;Q9H040;P49750;Q96PM5;Q13838;Q02040;P08621;O75925;Q9UPS6;P50222;Q86XP3;Q86TB9;Q07955;O43660;P51816;Q01081;O94906;Q9BT49;Q96CJ1;P80723;Q9ULJ6;Q5HYJ3;Q8NHY2;P84103;Q06587;Q9UMS4;Q14498;Q99633;Q8WXF1;Q99459;Q05516;Q12837;Q9UQ35;O00257;Q9BTA9;Q8IZL2;Q9BZE0;Q9Y5S9;Q9BWG6;Q92585;Q9BZJ0;O75494;Q6PJT7;O75928;Q6PD62;Q9UIS9;O15234}
- 5218 [Cluster 475]GO:0072357+C cellular\_component [name] PTW/PP1 phosphatase complex [def] "A protein serine/threonine phosphatase complex that contains a catalytic subunits (PPP1CA, PPP1CB or PPP1CC) and the regulatory subunits PPP1R10 (PNUTS), TOX4 and WDR82, and plays a role in the control of chromatin structure and cell cycle progression during the transition from mitosis into interphase." [GOC
- 5219 Pathogen[ Q2Q067] interacts with 6 human partners: {O14974;P62140;O94842;Q96QC0;P36873;P62136}
- 5220 Pathogen[ P0C214] interacts with 6 human partners: {P62140;O94842;O14974;P62136;P36873;Q96QC0}

5221 Pathogen[ P03346] interacts with 6 human partners:{P62136;Q96QC0;O94842;P36873;P62140;O14974}

5222 Pathogen[ Q85601] interacts with 6 human partners:{P62136;P36873;Q96QC0;O14974;P62140;O94842}

5223 Pathogen[ P14079] interacts with 6 human partners:{Q96QC0;P36873;O14974;P62136;P62140;O94842}

5224 Pathogen[ P03383] interacts with 5 human partners:{P62140;P36873;P62136;O94842;Q96QC0}

5225 Pathogen[ P03410] interacts with 6 human partners:{Q96QC0;P62136;P62140;O94842;O14974;P36873}

5226 Pathogen[ P14075] interacts with 5 human partners:{Q96QC0;P62140;P36873;P62136;O94842}

5227 Pathogen[ P0C206] interacts with 6 human partners:{O94842;O14974;P62140;Q96QC0;P36873;P62136}

5228 Pathogen[ P03363] interacts with 6 human partners:{P62136;P36873;P62140;Q96QC0;O14974;O94842}

5229 [Cluster 476]GO:0043025+C cellular\_component [name] neuronal cell body [def] "The portion of a neuron that includes the nucleus, but excludes all cell projections such as axons and dendrites." [GOC

5230 Pathogen[ Q2Q067] interacts with 24 human partners:{O14786;Q13033;P41219;Q9H2P0;O95886;Q15596;Q9UBB6;P51610;P63241;Q00577;Q9UBB4;Q04323;P11142;Q9Y6H5;P51959;Q92796;P62136;P53041;Q9NZU7;P60953;P78347;Q66K74;Q14194;Q9H814}

5231 Pathogen[ P0C214] interacts with 33 human partners:{Q9UBB6;P05937;O14786;P51610;Q9UBB4;Q9H814;Q92796;Q9UM54;P51959;P41219;Q13033;P60953;Q14194;P63241;Q9HCE7;P35580;Q9Y6H5;Q00577;P09104;Q9Y2H0;P78347;P62136;Q04323;O95886;P07093;Q9NZU7;P53041;O15305;Q15596;Q05639;Q66K74;Q9H2P0;P11142}

5232 Pathogen[ P03346] interacts with 35 human partners:{P62136;Q9UBB4;P0CAP2;Q96A65;Q9H2P0;Q00577;P78347;Q9NZU7;P51610;Q9H814;O43815;Q66K74;P11142;Q92886;P60953;P63241;P05937;Q92796;Q9P021;Q9Y2H0;Q13033;Q15596;P41219;O95886;P84550;Q9Y6H5;P53041;P11137;Q9ULV0;Q04323;Q15700;Q9UBB6;P51959;Q14194;O14786}

5233 Pathogen[ Q85601] interacts with 30 human partners:{Q9NZU7;Q96A65;Q14194;Q9UBB4;O43815;Q66K74;P63241;P51959;Q15596;O14786;P51610;Q00577;Q9H814;Q04323;P62136;P11142;Q9H2P0;P41219;P53041;Q9BVA0;Q92796;Q13033;P60953;P35580;Q9Y6H5;Q9UM54;O95886;P07093;P78347;Q05639}

5234 Pathogen[ P14079] interacts with 46 human partners:{Q8WWM9;O14810;P51959;P05937;P11142;Q15596;O15305;P53041;P41219;Q15700;P13498;Q13033;Q66K74;P24588;Q9Y6H5;O43815;P62136;Q9H2P0;Q9UM54;P51610;Q9Y2H0;Q9H269;P02686;A6PVL3;Q15078;Q6PUV4;Q7Z7J9;Q9UBB6;Q9UBB4;Q14194;Q00577;P63241;Q96A65;Q05682;P47874;Q0ZLH3;O95886;Q9P021;P11137;Q92796;P78347;Q9BVA0;P0CAP2;Q9NZU7;Q04323;Q9H814}

5235 Pathogen[ P03383] interacts with 22 human partners:{Q9UBB6;Q15596;Q9UBB4;P78347;P0CAP2;O95886;P60953;Q04323;P63241;P62136;P51610;P41219;P51959;P11142;P53041;P35580;Q00577;Q92796;Q9Y6H5;Q13033;Q9Y2H0;Q9H814}

5236 Pathogen[ P03410] interacts with 47 human partners:{O14786;P51610;Q9Y6H5;A6PVL3;P11137;Q05682;Q9ULV0;O14810;P02686;P62136;Q9Y2H0;P11142;Q04323;Q00577;Q0ZLH3;Q15700;P41219;Q8WWM9;Q9UM54;Q9H814;P51959;Q96A65;P05937;Q9UBB6;Q92796;Q13033;P0CAP2;P53041;Q7Z7J9;Q9NZU7;Q6PUV4;Q66K74;O15305;Q15596;P60953;P35580;O95886;O43815;P63241;P78347;Q14194;Q9P021;Q9UBB4;Q9H269;P47874;P24588;Q9BVA0}

5237 Pathogen[ P14075] interacts with 21 human partners:{P60953;Q9H814;P11142;P0CAP2;Q9Y6H5;P51959;O95886;P51610;P78347;P63241;Q9UBB4;Q04323;P62136;P41219;P53041;Q92796;Q9UBB6;Q00577;Q9Y2H0;Q13033;Q15596}

5238 Pathogen[ P0C206] interacts with 37 human partners:{Q9UM54;Q9BVA0;Q9UBB4;Q15700;O43815;Q04323;P41219;Q9P021;P53041;O95886;Q9NZU7;Q96A65;Q66K74;O14786;Q9Y2H0;P11137;Q9H814;P78347;P51959;P51610;Q6PUV4;Q9UBB6;P60953;Q14194;P63241;Q15596;Q92796;P84550;Q9H2P0;Q13033;P35580;P0CAP2;P11142;Q9Y6H5;Q8WWM9;P62136;Q00577}

5239 Pathogen[ P03363] interacts with 33 human partners:{Q9P021;Q92886;P11137;Q9Y6H5;P62136;Q04323;Q9UBB6;Q66K74;Q14194;O14786;Q9H2P0;Q96A65;P53041;Q13033;Q15700;Q15596;Q9UBB4;O43815;Q9NZU7;P41219;P63241;P51959;P84550;P0CAP2;O95886;Q92796;Q00577;P60953;P78347;Q9H814;P11142;P51610;P05937}

5240 [Cluster 477]GO:0005778+C cellular\_component [name] peroxisomal membrane [def] "The lipid bilayer surrounding a peroxisome." [GOC

5241 Pathogen[ Q2Q067] interacts with 4 human partners:{A5YKK6;O75381;Q9NR77;P40855}

5242 Pathogen[ P0C214] interacts with 5 human partners:{P40855;O75381;Q99614;A5YKK6;Q9NR77}

5243 Pathogen[ P03346] interacts with 9 human partners:{A5YKK6;O75381;Q9NR77;P56589;P50542;P40855;O43933;O96011;Q99614}

5244 Pathogen[ Q85601] interacts with 5 human partners:{A5YKK6;Q9NR77;O43933;O75381;P40855}

5245 Pathogen[ P14079] interacts with 16 human partners:{Q9Y5Y5;O75192;Q96HA9;P40855;P56589;A5YKK6;Q7Z434;Q99614;Q9Y6I8;P50542;O96011;Q53FP2;Q7Z412;P10620;O75381;Q9NR77}

5246 Pathogen[ P03383] interacts with 5 human partners:{Q96HA9;O75381;A5YKK6;Q9NR77;P40855}

5247 Pathogen[ P03410] interacts with 13 human partners:{O75192;Q99614;Q9Y5Y5;O96011;P40855;O75381;Q7Z434;Q9Y6I8;Q96HA9;P50542;P5658

9;A5YKK6;Q9NR77}

5248 Pathogen[ P14075] interacts with 6 human partners:{P40855;O75381;Q96HA9;Q9NR77;O75192;A5YKK6}

5249 Pathogen[ P0C206] interacts with 12 human partners:{O43933;O75192;Q96HA9;O75381;P56589;P50542;Q9NR77;P40855;A5YKK6;O96011;Q99614;Q9Y6I8}

5250 Pathogen[ P03363] interacts with 6 human partners:{O43933;A5YKK6;Q9NR77;O75381;P40855;Q99614}

5251 [Cluster 478]GO:0000159+C cellular\_component [name] protein phosphatase type 2A complex [def] "A protein complex that has protein serine/threonine phosphatase activity that is polycation-stimulated (PCS), being directly stimulated by protamine, polylysine, or histone H1\_ it constitutes a subclass of several enzymes activated by different histones and polylysine, and consists of catalytic, scaffolding, and regulatory subunits. The catalytic and scaffolding subunits form the core enzyme, and the holoenzyme also includes the regulatory subunit." [GOC

5252 Pathogen[ Q2Q067] interacts with 15 human partners:{P30153;Q13033;P63151;Q66LE6;Q15172;P67775;Q15173;Q9Y5P8;P62714;Q9NRL3;Q00005;P99999;Q15257;Q16537;Q14738}

5253 Pathogen[ P0C214] interacts with 15 human partners:{Q16537;Q00005;P30153;Q13033;Q15172;Q66LE6;Q15257;P62714;Q15173;P99999;P63151;P67775;Q14738;Q9Y5P8;Q9NRL3}

5254 Pathogen[ P03346] interacts with 19 human partners:{Q15172;Q66LE6;Q00005;Q13362;Q15257;O43815;P62714;P67775;Q969G9;P30153;Q9Y5P8;P99999;Q13033;Q06190;Q14738;Q16537;Q15173;Q9NRL3;P63151}

5255 Pathogen[ Q85601] interacts with 16 human partners:{Q9NRL3;P99999;P62714;P63151;Q00005;O43815;Q14738;P30153;Q15172;Q15173;Q66LE6;Q16537;Q13033;P67775;Q15257;Q9Y5P8}

5256 Pathogen[ P14079] interacts with 15 human partners:{Q13362;Q14738;Q15173;Q16537;Q13033;Q15172;O43815;P63151;Q9NRL3;Q00005;Q66LE6;Q06190;P30153;Q9Y5P8;P99999}

5257 Pathogen[ P03383] interacts with 12 human partners:{Q15173;Q15257;Q00005;P62714;Q14738;P30153;P67775;Q9Y5P8;Q16537;P99999;Q9NRL3;Q13033}

5258 Pathogen[ P03410] interacts with 19 human partners:{P62714;Q9NRL3;Q15172;Q15173;Q15257;P63151;Q06190;Q16537;Q13033;Q969G9;P99999;Q14738;P30153;Q00005;O43815;Q13362;Q66LE6;P67775;Q9Y5P8}

5259 Pathogen[ P14075] interacts with 12 human partners:{Q9Y5P8;Q15257;Q00005;Q16537;P99999;Q9NRL3;Q14738;Q15173;P62714;P67775;P30153;Q13033}

5260 Pathogen[ P0C206] interacts with 19 human partners:{P99999;Q06190;Q16537;P30153;O43815;Q15172;Q66LE6;Q15173;P63151;P67775;Q14738;Q9NRL3;P62714;Q13362;Q13033;Q00005;Q9Y5P8;Q15257;Q969G9}

5261 Pathogen[ P03363] interacts with 19 human partners:{Q9Y5P8;P62714;Q16537;P99999;Q13362;Q00005;Q14738;Q06190;Q969G9;Q13033;Q66LE6;P63151;O43815;Q15173;Q9NRL3;Q15172;Q15257;P30153;P67775}

5262 [Cluster 479]GO:0060170+C cellular\_component [name] cilium membrane [def] "The portion of the plasma membrane surrounding a cilium." [GOC

5263 Pathogen[ Q2Q067] interacts with 4 human partners:{Q9UPX8;Q717R9;P09497;Q3SYG4}

5264 Pathogen[ P0C214] interacts with 3 human partners:{Q9UPX8;Q3SYG4;P09497}

5265 Pathogen[ P03346] interacts with 7 human partners:{Q8TAM2;Q15019;P42566;Q3SYG4;P09497;Q717R9;Q9UPX8}

5266 Pathogen[ Q85601] interacts with 3 human partners:{Q9UPX8;Q3SYG4;P09497}

5267 Pathogen[ P14079] interacts with 11 human partners:{P42566;Q8NFIJ9;Q717R9;Q8N3I7;P57679;Q86UK5;Q8IWZ6;Q8TAM2;P09497;Q3SYG4;Q9UPX8}

5268 Pathogen[ P03383] interacts with 3 human partners:{Q3SYG4;Q717R9;P09497}

5269 Pathogen[ P03410] interacts with 10 human partners:{Q717R9;Q8NFIJ9;Q3SYG4;Q8TAM2;P09497;Q8N3I7;Q9UPX8;Q8IWZ6;P42566;Q86UK5}

5270 Pathogen[ P14075] interacts with 3 human partners:{Q3SYG4;P09497;Q717R9}

5271 Pathogen[ P0C206] interacts with 9 human partners:{Q15019;Q3SYG4;Q8TAM2;Q8N3I7;Q717R9;P09497;Q9UPX8;P42566;Q8NFIJ9}

5272 Pathogen[ P03363] interacts with 6 human partners:{Q8TAM2;Q9UPX8;Q717R9;Q3SYG4;Q8NFIJ9;P09497}

5273 [Cluster 480]GO:0001940+C cellular\_component [name] male pronucleus [def] "The pronucleus originating from the spermatozoa that was involved in fertilization." [GOC

5274 Pathogen[ Q2Q067] interacts with 4 human partners:{P20226;Q5UIP0;P20248;P83916}

5275 Pathogen[ P0C214] interacts with 4 human partners:{P20248;Q5UIP0;P83916;P20226}

5276 Pathogen[ P03346] interacts with 5 human partners:{Q6W0C5;P20226;P20248;Q5UIP0;P83916}

5277 Pathogen[ Q85601] interacts with 4 human partners:{P83916;Q5UIP0;P20248;P20226}

5278 Pathogen[ P14079] interacts with 4 human partners:{P20248;Q6W0C5;P83916;Q5UIP0}

5279 Pathogen[ P03383] interacts with 4 human partners:{Q5UIP0;P83916;P20226;P20248}

5280 Pathogen[ P03410] interacts with 5 human partners:{P20226;P20248;P83916;Q5UIP0;Q6W0C5}

5281 Pathogen[ P14075] interacts with 4 human partners:{P20226;P20248;P83916;Q5UIP0}

5282 Pathogen[ P0C206] interacts with 5 human



5283 partners:{Q5UIP0;P20226;P20248;P83916;Q6W0C5}  
Pathogen[ P03363] interacts with 5 human  
partners:{P83916;P20248;Q5UIP0;P20226;Q6W0C5}

5284 [Cluster 481]GO:0043296+C cellular\_component [name] apical junction complex [def] "A functional unit located near the cell apex at the points of contact between epithelial cells, which in vertebrates is composed of the tight junction, the zonula adherens, and desmosomes and in invertebrates is composed of the subapical complex (SAC), the zonula adherens and the septate junction. Functions in the regulation of cell polarity, tissue integrity and intercellular adhesion and permeability." [GOC

5285 Pathogen[ Q2Q067] interacts with 5 human  
partners:{Q9P2M7;A6NKD9;Q07157;Q8TES7;P61586}

5286 Pathogen[ P0C214] interacts with 5 human  
partners:{P61586;Q8TES7;Q9P2M7;A6NKD9;Q07157}

5287 Pathogen[ P03346] interacts with 5 human  
partners:{A6NKD9;Q07157;Q8TES7;Q9P2M7;P61586}

5288 Pathogen[ Q85601] interacts with 5 human  
partners:{Q8TES7;P61586;Q07157;A6NKD9;Q9P2M7}

5289 Pathogen[ P14079] interacts with 6 human  
partners:{Q07157;A6NKD9;Q8N6F1;P61586;Q9P2M7;Q8TES7}

5290 Pathogen[ P03383] interacts with 5 human  
partners:{A6NKD9;Q8TES7;Q07157;P61586;Q9P2M7}

5291 Pathogen[ P03410] interacts with 7 human  
partners:{A6NKD9;Q0VF96;Q8N6F1;P61586;Q07157;Q9P2M7;Q8TES7}

5292 Pathogen[ P14075] interacts with 5 human  
partners:{Q07157;Q8TES7;P61586;A6NKD9;Q9P2M7}

5293 Pathogen[ P0C206] interacts with 5 human  
partners:{A6NKD9;P61586;Q07157;Q9P2M7;Q8TES7}

5294 Pathogen[ P03363] interacts with 4 human partners:{A6NKD9;Q8TES7;Q07157;Q9P2M7}

5295 [Cluster 482]GO:0009898+C cellular\_component [name] internal side of plasma membrane [def] "The side of the plasma membrane that faces the cytoplasm." [GOC

5296 Pathogen[ Q2Q067] interacts with 12 human  
partners:{Q9NR28;P41220;P23490;Q12933;Q9BZE9;Q99569;Q12959;Q13114;O14920;O00463;Q13490;O15111}

5297 Pathogen[ P0C214] interacts with 13 human  
partners:{P41220;P11413;O15111;Q13490;P23490;Q9BZE9;Q15124;Q12933;Q12959;Q13114;O00463;Q9NR28;O14920}

5298 Pathogen[ P03346] interacts with 15 human  
partners:{O00463;O15111;Q99569;Q9NR28;Q13114;P26038;Q9BZE9;Q96EP0;P23490;Q13490;O14920;P41220;Q9Y2R2;P24666;Q12959}

5299 Pathogen[ Q85601] interacts with 13 human  
partners:{Q99569;Q13490;O00463;P41220;O15111;Q9NR28;Q13114;Q9BZE9;Q15124;Q12933;O14920;Q12959;P23490}

5300 Pathogen[ P14079] interacts with 12 human  
partners:{O00463;Q9BZE9;P26038;Q96EP0;P41220;Q15124;Q99569;Q9NR28;P23490;Q12933;Q13114;Q13490}

5301 Pathogen[ P03383] interacts with 9 human  
partners:{P23490;O14920;P41220;O15111;Q13490;Q9BZE9;Q12933;Q9NR28;Q13114}

5302 Pathogen[ P03410] interacts with 15 human  
partners:{Q9BZE9;P23490;O14920;Q9NR28;P41220;O15111;Q12959;Q13490;Q15124;P26038;O00463;Q12933;P24666;Q13114;Q99569}

5303 Pathogen[ P14075] interacts with 9 human  
partners:{O15111;P41220;P23490;Q9NR28;O14920;Q13490;Q12933;Q13114;Q9BZE9}

5304 Pathogen[ P0C206] interacts with 16 human  
partners:{O14920;Q13114;Q9NR28;Q12933;Q9Y2R2;Q9BZE9;Q15124;P23490;P24666;Q96EP0;Q99569;O15111;O00463;P41220;Q12959;Q13490}

5305 Pathogen[ P03363] interacts with 15 human  
partners:{Q12959;Q13490;O14920;Q9Y2R2;Q96EP0;O15111;P23490;Q12933;O00463;Q99569;Q9NR28;Q9BZE9;P41220;Q13114;P24666}

5306 [Cluster 483]GO:0033553+C cellular\_component [name] rDNA heterochromatin [def] "A region of heterochromatin located at the rDNA repeats in a chromosome." [GOC

5307 Pathogen[ Q2Q067] interacts with 3 human partners:{O43463;O43159;Q9UIF9}

5308 Pathogen[ P0C214] interacts with 3 human partners:{O43159;O43463;Q9UIF9}

5309 Pathogen[ P03346] interacts with 3 human partners:{O43159;O43463;Q9UIF9}

5310 Pathogen[ Q85601] interacts with 3 human partners:{Q9UIF9;O43159;O43463}

5311 Pathogen[ P14079] interacts with 2 human partners:{Q9UIF9;O43159}

5312 Pathogen[ P03383] interacts with 3 human partners:{O43463;O43159;Q9UIF9}

5313 Pathogen[ P03410] interacts with 3 human partners:{O43159;Q9UIF9;O43463}

5314 Pathogen[ P14075] interacts with 3 human partners:{Q9UIF9;O43159;O43463}

5315 Pathogen[ P0C206] interacts with 3 human partners:{O43159;O43463;Q9UIF9}

5316 Pathogen[ P03363] interacts with 3 human partners:{Q9UIF9;O43159;O43463}

5317 [Cluster 484]GO:0042382+C cellular\_component [name] paraspeckles [def] "Discrete subnuclear bodies in the interchromatin nucleoplasmic space, often located adjacent to nuclear specks. 10-20 paraspeckles are typically found in human cell nuclei." [GOC

5318 Pathogen[ Q2Q067] interacts with 6 human  
partners:{P52272;Q15233;Q16630;P23246;O43809;Q8WXF1}

5319 Pathogen[ P0C214] interacts with 6 human

5320 Pathogen[ P03346] interacts with 6 human partners: {Q15233;P23246;Q16630;P52272;O43809;Q8WXF1}

5321 Pathogen[ Q85601] interacts with 4 human partners: {Q8WXF1;Q15233;P23246;O43809}

5322 Pathogen[ P14079] interacts with 4 human partners: {O43809;P23246;Q16630;Q15233}

5323 Pathogen[ P03383] interacts with 4 human partners: {Q8WXF1;O43809;Q15233;P23246}

5324 Pathogen[ P03410] interacts with 6 human partners: {P23246;Q15233;O43809;Q8WXF1;P52272;Q16630}

5325 Pathogen[ P14075] interacts with 4 human partners: {Q8WXF1;P23246;O43809;Q15233}

5326 Pathogen[ P0C206] interacts with 5 human partners: {Q15233;O43809;P23246;Q16630;Q8WXF1}

5327 Pathogen[ P03363] interacts with 6 human partners: {Q15233;P23246;Q16630;P52272;O43809;Q8WXF1}

5328 [Cluster 485]GO:0030134+C cellular\_component [name] ER to Golgi transport vesicle [def] "A vesicle that mediates transport from the endoplasmic reticulum to the Golgi complex\_ bears a coat formed of the COPII coat complex proteins\_ such vesicles found associated with endoplasmic reticulum (ER) membranes at steady state, and are involved in ER to Golgi (anterograde) vesicle transport." [GOC]

5329 Pathogen[ Q2Q067] interacts with 2 human partners: {Q5VYK3;Q53G59}

5330 Pathogen[ P0C214] interacts with 2 human partners: {Q5VYK3;Q53G59}

5331 Pathogen[ P03346] interacts with 1 human partners: {Q5VYK3}

5332 Pathogen[ Q85601] interacts with 2 human partners: {Q5VYK3;Q53G59}

5333 Pathogen[ P14079] interacts with 4 human partners: {Q969M3;Q5VYK3;Q9H0V9;Q53G59}

5334 Pathogen[ P03383] interacts with 2 human partners: {Q5VYK3;Q53G59}

5335 Pathogen[ P03410] interacts with 4 human partners: {Q53G59;Q9H0V9;Q5VYK3;Q969M3}

5336 Pathogen[ P14075] interacts with 2 human partners: {Q53G59;Q5VYK3}

5337 Pathogen[ P0C206] interacts with 3 human partners: {Q969M3;Q5VYK3;Q53G59}

5338 Pathogen[ P03363] interacts with 2 human partners: {Q53G59;Q5VYK3}

5339 [Cluster 486]GO:0042582+C cellular\_component [name] azurophil granule [def] "Primary lysosomal granule found in neutrophil granulocytes. Contains a wide range of hydrolytic enzymes and is released into the extracellular fluid." [GOC]

5340 Pathogen[ Q2Q067] interacts with 3 human partners: {P50995;O00161;Q15833}

5341 Pathogen[ P0C214] interacts with 3 human partners: {Q15833;P50995;O00161}

5342 Pathogen[ P03346] interacts with 3 human partners: {Q15833;O00161;P50995}

5343 Pathogen[ Q85601] interacts with 3 human partners: {Q15833;P50995;O00161}

5344 Pathogen[ P14079] interacts with 2 human partners: {P50995;Q15833}

5345 Pathogen[ P03383] interacts with 2 human partners: {P50995;O00161}

5346 Pathogen[ P03410] interacts with 3 human partners: {Q15833;P50995;O00161}

5347 Pathogen[ P14075] interacts with 2 human partners: {P50995;O00161}

5348 Pathogen[ P0C206] interacts with 3 human partners: {P50995;O00161;Q15833}

5349 Pathogen[ P03363] interacts with 3 human partners: {P50995;O00161;Q15833}

5350 [Cluster 487]GO:0043564+C cellular\_component [name] Ku70 [def] "Heterodimeric protein complex composed of a 70 kDa and a 80 kDa subunit, binds DNA through a channel formed by the heterodimer. Functions in DNA double stranded break repair, chromosome maintenance, transcription regulation, V(D)J recombination, and activation of DNA-PK." [PMID]

5351 Pathogen[ Q2Q067] interacts with 2 human partners: {P12956;P13010}

5352 Pathogen[ P0C214] interacts with 2 human partners: {P13010;P12956}

5353 Pathogen[ P03346] interacts with 2 human partners: {P12956;P13010}

5354 Pathogen[ Q85601] interacts with 2 human partners: {P13010;P12956}

5355 Pathogen[ P14079] interacts with 2 human partners: {P13010;P12956}

5356 Pathogen[ P03383] interacts with 2 human partners: {P13010;P12956}

5357 Pathogen[ P03410] interacts with 2 human partners: {P12956;P13010}

5358 Pathogen[ P14075] interacts with 2 human partners: {P12956;P13010}

5359 Pathogen[ P0C206] interacts with 2 human partners: {P13010;P12956}

5360 Pathogen[ P03363] interacts with 2 human partners: {P12956;P13010}

5361 [Cluster 488]GO:0033018+C cellular\_component [name] sarcoplasmic reticulum lumen [def] "The volume enclosed by the membranes of the sarcoplasmic reticulum." [GOC]

5362 Pathogen[ Q2Q067] interacts with 1 human partners: {P27797}

5363 Pathogen[ P0C214] interacts with 1 human partners: {P27797}

5364 Pathogen[ P03346] interacts with 1 human partners: {P27797}

5365 Pathogen[ Q85601] interacts with 1 human partners: {P27797}

5366 Pathogen[ P14079] interacts with 1 human partners: {P23327}

5367 Pathogen[ P03383] interacts with 1 human partners: {P27797}

5368 Pathogen[ P03410] interacts with 2 human partners: {P23327;P27797}

5369 Pathogen[ P14075] interacts with 2 human partners: {P23327;P27797}

5370 Pathogen[ P0C206] interacts with 2 human partners: {P27797;P23327}

5371 Pathogen[ P03363] interacts with 1 human partners: {P27797}

5372 [Cluster 489]GO:0001939+C cellular\_component [name] female pronucleus [def] "The pronucleus originating from the ovum that is being fertilized." [GOC]

5373 Pathogen[ Q2Q067] interacts with 6 human partners: {P20226;Q5UIP0;P11166;O43823;P20248;P83916}

5374 Pathogen[ P0C214] interacts with 6 human partners: {P20248;Q5UIP0;P83916;P11166;O43823;P20226}

5375 Pathogen[ P03346] interacts with 7 human partners: {Q6W0C5;P20226;P20248;P11166;Q5UIP0;P83916;O43823}

5376 Pathogen[ Q85601] interacts with 6 human partners: {Q6W0C5;P20226;P20248;P11166;Q5UIP0;P83916;O43823}

5377 partners:{P83916;P11166;Q5UIP0;P20248;O43823;P20226}  
Pathogen[ P14079] interacts with 6 human

5378 partners:{O43823;P11166;P20248;Q6W0C5;P83916;Q5UIP0}  
Pathogen[ P03383] interacts with 4 human partners:{Q5UIP0;P83916;P20226;P20248}

5379 Pathogen[ P03410] interacts with 7 human  
partners:{P11166;P20226;P20248;P83916;Q5UIP0;O43823;Q6W0C5}

5380 Pathogen[ P14075] interacts with 5 human  
partners:{P20226;P20248;P83916;Q5UIP0;O43823}

5381 Pathogen[ P0C206] interacts with 7 human  
partners:{Q5UIP0;P20226;P20248;P11166;P83916;O43823;Q6W0C5}

5382 Pathogen[ P03363] interacts with 6 human  
partners:{P83916;P20248;Q5UIP0;P20226;P11166;Q6W0C5}

5383 [Cluster 490]GO:0033256+C cellular\_component [name] I-kappaB/NF-kappaB complex [def] "A protein complex containing an I-kappaB protein and one or more copies of an NF-kappaB protein\_ mediates regulation of NF-kappaB activity by I-kappaB." [GOC]

5384 Pathogen[ Q2Q067] interacts with 3 human partners:{P19838;P25963;Q96EY1}  
5385 Pathogen[ P0C214] interacts with 3 human partners:{P19838;P25963;Q96EY1}  
5386 Pathogen[ P03346] interacts with 3 human partners:{P25963;P19838;Q96EY1}  
5387 Pathogen[ Q85601] interacts with 3 human partners:{P19838;Q96EY1;P25963}  
5388 Pathogen[ P14079] interacts with 1 human partners:{Q96EY1}  
5389 Pathogen[ P03383] interacts with 3 human partners:{P25963;P19838;Q96EY1}  
5390 Pathogen[ P03410] interacts with 3 human partners:{P19838;P25963;Q96EY1}  
5391 Pathogen[ P14075] interacts with 3 human partners:{P25963;P19838;Q96EY1}  
5392 Pathogen[ P0C206] interacts with 3 human partners:{P25963;P19838;Q96EY1}  
5393 Pathogen[ P03363] interacts with 3 human partners:{P25963;P19838;Q96EY1}

5394 [Cluster 491]GO:0005921+C cellular\_component [name] gap junction [def] "A cell-cell junction that is composed of an array of small channels that permit small molecules to pass from one cell to another. At gap junctions, the membranes of two adjacent cells are separated by a uniform narrow gap of about 2-4 nm that is spanned by channel-forming proteins called connexins, which form hexagonal tubes called connexons." [GOC]

5395 Pathogen[ Q2Q067] interacts with 2 human partners:{Q07157;P16989}  
5396 Pathogen[ P0C214] interacts with 2 human partners:{P16989;Q07157}  
5397 Pathogen[ P03346] interacts with 3 human partners:{P16989;Q69YQ0;Q07157}  
5398 Pathogen[ Q85601] interacts with 3 human partners:{Q69YQ0;Q07157;P16989}  
5399 Pathogen[ P14079] interacts with 3 human partners:{Q07157;Q69YQ0;P16989}  
5400 Pathogen[ P03383] interacts with 2 human partners:{P16989;Q07157}  
5401 Pathogen[ P03410] interacts with 3 human partners:{P16989;Q69YQ0;Q07157}  
5402 Pathogen[ P14075] interacts with 2 human partners:{P16989;Q07157}  
5403 Pathogen[ P0C206] interacts with 3 human partners:{Q69YQ0;P16989;Q07157}  
5404 Pathogen[ P03363] interacts with 3 human partners:{Q07157;P16989;Q69YQ0}

5405 [Cluster 492]GO:0030117+C cellular\_component [name] membrane coat [def] "Any of several different proteinaceous coats that can associate with membranes. Membrane coats include those formed by clathrin plus an adaptor complex, the COPI and COPII complexes, and possibly others. They are found associated with membranes on many vesicles as well as other membrane features such as pits and perhaps tubules." [GOC]

5406 Pathogen[ Q2Q067] interacts with 17 human  
partners:{O94973;Q10567;P56377;O43747;O95782;Q92572;P63010;Q96PC3;P61923;Q9UBF2;Q00610;P61966;O75843;P53618;P35606;Q9Y678;Q13367}

5407 Pathogen[ P0C214] interacts with 18 human  
partners:{P61923;P59780;Q13367;P53618;P35606;O75843;P63010;Q10567;Q92572;Q9UBF2;P56377;Q96PC3;O43747;O94973;P61966;O95782;P53680;Q9Y678}

5408 Pathogen[ P03346] interacts with 22 human  
partners:{P61966;Q9Y6B7;P63010;O43747;Q92572;P53680;P56377;P59780;Q9Y678;O95782;P53618;Q10567;O75843;Q9UPM8;Q9UBF2;Q96PC3;P61923;Q13367;O14617;P35606;O94973;Q00610}

5409 Pathogen[ Q85601] interacts with 21 human  
partners:{Q13367;O75843;Q00610;P56377;O43747;P61923;Q9UPM8;Q10567;Q9UBF2;Q9Y678;P53680;O94973;Q96PC3;P53618;Q9Y6B7;P63010;Q92572;P61966;P59780;P35606;O95782}

5410 Pathogen[ P14079] interacts with 21 human  
partners:{P61923;P61966;Q00610;P35606;Q9UPM8;Q10567;P56377;Q9Y678;Q9Y6B7;P59780;Q92572;O75843;O95782;Q9UBF2;P63010;O94973;Q13367;O43747;O14617;Q96PC3;P53680}

5411 Pathogen[ P03383] interacts with 13 human  
partners:{P56377;Q00610;Q92572;P53618;Q9Y678;Q10567;O75843;P63010;O43747;O95782;Q9UBF2;Q13367;O94973}

5412 Pathogen[ P03410] interacts with 23 human  
partners:{Q00610;Q9UPM8;O00203;O95782;Q96PC3;P53680;O43747;O75843;Q10567;P35606;Q92572;O14617;Q9Y6B7;Q9Y678;P53618;P61923;P63010;P59780;Q13367;P61966;O94973;P56377;Q9UBF2}

5413 Pathogen[ P14075] interacts with 13 human  
partners:{O94973;Q9UBF2;P53618;O95782;O43747;Q92572;P63010;Q9Y678;O75843;P56377;Q10567;Q00610;Q13367}

5414 Pathogen[ P0C206] interacts with 22 human  
partners:{P53680;P63010;Q9Y678;Q9Y6B7;O94973;Q92572;P53618;O43747;Q10567;P61966;Q00610;P59780;Q9UPM8;P35606;O95782;Q9UBF2;O14617;O75843;Q96PC3;Q13367;P56377;P61923}

5415 Pathogen[ P03363] interacts with 16 human  
partners:{Q13367;O43747;Q9Y678;Q00610;Q9Y6B7;P53618;O94973;P61923;Q92572;P63010;O95782;P35606;Q9UBF2;O75843;Q10567;Q9UPM8}

5416 [Cluster 493]GO:0033178+C cellular\_component [name] proton-transporting two-sector ATPase complex, catalytic domain [def] "A protein complex that forms part of a proton-transporting two-sector ATPase complex and catalyzes ATP hydrolysis or synthesis. The catalytic domain (F1, V1, or A1) comprises a hexameric catalytic core and a central stalk, and is peripherally associated with the membrane when the two-sector ATPase is assembled." [GOC

5417 Pathogen[ Q2Q067] interacts with 1 human partners:{P36543}

5418 Pathogen[ P0C214] interacts with 2 human partners:{Q16864;P36543}

5419 Pathogen[ P03346] interacts with 2 human partners:{P36543;Q16864}

5420 Pathogen[ Q85601] interacts with 1 human partners:{P36543}

5421 Pathogen[ P14079] interacts with 3 human partners:{P36543;P25705;Q16864}

5422 Pathogen[ P03383] interacts with 1 human partners:{P36543}

5423 Pathogen[ P03410] interacts with 3 human partners:{P25705;Q16864;P36543}

5424 Pathogen[ P14075] interacts with 1 human partners:{P36543}

5425 Pathogen[ P0C206] interacts with 2 human partners:{P36543;Q16864}

5426 Pathogen[ P03363] interacts with 1 human partners:{P36543}

5427 [Cluster 494]GO:0043189+C cellular\_component [name] H4/H2A histone acetyltransferase complex [def] "A multisubunit complex that catalyzes the acetylation of histones H4 and H2A." [GOC

5428 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NV56}

5429 Pathogen[ P0C214] interacts with 1 human partners:{Q9NV56}

5430 Pathogen[ P03346] interacts with 1 human partners:{Q9NV56}

5431 Pathogen[ Q85601] interacts with 1 human partners:{Q9NV56}

5432 Pathogen[ P14079] interacts with 1 human partners:{Q9NV56}

5433 Pathogen[ P03383] interacts with 1 human partners:{Q9NV56}

5434 Pathogen[ P03410] interacts with 1 human partners:{Q9NV56}

5435 Pathogen[ P14075] interacts with 1 human partners:{Q9NV56}

5436 Pathogen[ P0C206] interacts with 1 human partners:{Q9NV56}

5437 Pathogen[ P03363] interacts with 1 human partners:{Q9NV56}

5438 [Cluster 495]GO:0045211+C cellular\_component [name] postsynaptic membrane [def] "A specialized area of membrane facing the presynaptic membrane on the tip of the nerve ending and separated from it by a minute cleft (the synaptic cleft). Neurotransmitters across the synaptic cleft and transmit the signal to the postsynaptic membrane." [ISBN

5439 Pathogen[ Q2Q067] interacts with 25 human partners:{O00213;Q14160;O95886;Q8N3V7;Q9NSC5;Q9P1A6;Q96EV8;O14910;Q8NF91;Q12959;P11532;P78352;Q9UPX8;P46939;O60299;Q9NZU7;P50570;Q53G26;Q9NRI5;Q9BVN2;Q9Y250;Q9HCI5;Q96EY1;Q9NUP9;O14490}

5440 Pathogen[ P0C214] interacts with 26 human partners:{O14490;O00213;O14910;Q9UPX8;Q9NRI5;P62166;Q9P1A6;O60299;Q9NSC5;Q9Y250;P11532;P78352;Q8NF91;P46939;O95886;Q9NZU7;Q53G26;Q96EV8;Q12959;Q14160;Q9HD26;Q9BVN2;Q9HCI5;P50570;Q8N3V7;Q96EY1}

5441 Pathogen[ P03346] interacts with 39 human partners:{Q9NSC5;Q9NRI5;Q8N3V7;O14490;O00213;P50570;P78352;Q6ZWB6;Q9NZU7;O75970;O43815;P46939;Q13424;Q68DU8;Q9NUP9;Q96EV8;Q9HD26;Q9Y250;O95886;Q53G26;P62166;O60299;Q9HAP6;Q13492;Q9UPP2;Q15700;P11532;Q9BVN2;Q96CX2;Q14160;Q9C0H9;Q8NF91;Q9UPX8;P0C2W1;Q96EY1;O14910;Q9P1A6;Q9HCI5;Q12959}

5442 Pathogen[ Q85601] interacts with 29 human partners:{O14490;Q9Y250;O00213;Q9UPX8;Q9NZU7;Q9NUP9;O14910;Q53G26;Q9P1A6;Q9BVN2;O43815;P11532;Q96EV8;Q9HD26;Q8N3V7;P46939;P50570;Q14160;P78352;Q12959;Q9NSC5;Q9NRI5;Q96CX2;O95886;Q8NF91;P62166;Q96EY1;Q9HCI5;O60299}

5443 Pathogen[ P14079] interacts with 35 human partners:{Q13492;Q9UPP2;Q8TB68;P11532;Q9BVN2;Q15700;O43815;Q9Y250;Q9NRI5;O00213;Q14118;Q13424;Q9C0H9;Q9HCI5;P46939;P50570;Q9HD26;Q9NUP9;Q7Z7J9;P62166;Q8N3V7;Q68DU8;Q9HAP6;Q9NSC5;Q96CX2;O60299;O95886;Q96EV8;Q9P1A6;Q8NF91;Q96EY1;Q9NZU7;O14490;O75970;Q9UPX8}

5444 Pathogen[ P03383] interacts with 21 human partners:{O00213;Q9P1A6;Q14160;Q9HD26;Q9NRI5;O95886;O60299;O14490;P46939;Q96EV8;P11532;Q9NSC5;Q9HCI5;Q8N3V7;Q9C0H9;P78352;Q96EY1;O14910;Q53G26;Q9BVN2;Q9Y250}

5445 Pathogen[ P03410] interacts with 41 human partners:{Q9BVN2;Q9P1A6;O14910;Q53G26;Q8N3V7;Q12959;O60299;P11532;Q68DU8;O00213;Q8TB68;Q9NUP9;P50570;Q9NSC5;O14490;Q14160;Q9HAP6;Q15700;Q6ZWB6;Q9HD26;O75970;Q13492;Q96CX2;P46939;Q9UPP2;Q7Z7J9;Q14118;Q9NZU7;Q9NRI5;Q9HCI5;O95886;O43815;Q9Y250;Q9UPX8;Q9C0H9;Q13424;P62166;P78352;Q96EV8;Q96EY1;Q8NF91}

5446 Pathogen[ P14075] interacts with 21 human partners:{O00213;P11532;Q8N3V7;Q14160;Q9BVN2;O95886;Q9Y250;Q9HD26;Q53G26;Q9NRI5;O14910;O60299;Q9NSC5;P46939;O14490;Q9P1A6;Q96EV8;P78352;Q9C0H9;Q96EY1;Q9HCI5}

5447 Pathogen[ P0C206] interacts with 33 human partners:{P46939;Q9NUP9;P78352;Q8N3V7;P62166;Q15700;O43815;Q96CX2;Q53G26;O95886;O60299;Q9NZU7;O00213;O14490;Q8NF91;Q9NSC5;Q96EV8;Q14160;Q9NRI5;Q9UPX8;O14910;Q9C0H9;Q9UPP2;P11532;Q13424;Q96EY1;Q9HCI5;Q12959;Q9HD26;Q9Y250;P50570;Q9P1A6;Q9BVN2}

5448 Pathogen[ P03363] interacts with 31 human partners:{Q12959;Q8N3V7;P46939;Q8NF91;O00213;Q9UPP2;Q9UPX8;O14910;Q14160;P78352;P50570;Q15700;O75970;Q53G26;Q9NSC5;Q9Y250;P11532;O43815;Q9NZU7;Q9BVN2;Q9NRI5;Q9HCI5;O95886;Q9P1A6;O14490;Q9NUP9;O60299;Q96EY1;Q9HD26;Q13424;Q9C0H9}

5449 [Cluster 496]GO:0030286+C cellular\_component [name] dynein complex [def] "Any of several large complexes that contain two or three dynein heavy chains and several light chains, and have microtubule motor activity." [ISBN

5450 Pathogen[ Q2Q067] interacts with 11 human partners: {P63172;Q8TF09;Q14204;P63167;Q9NP97;Q14203;Q13561;Q13409;Q96FJ2;P51808;O14576}

5451 Pathogen[ P0C214] interacts with 12 human partners: {Q14203;O14645;Q8TF09;Q14204;P51808;P63172;O14576;Q96FJ2;Q9NP97;Q13409;Q13561;P63167}

5452 Pathogen[ P03346] interacts with 13 human partners: {Q96FJ2;O14576;P51808;Q14204;Q14203;Q8TF09;Q8IZS6;P63172;Q13409;O14645;P63167;Q9NP97;Q13561}

5453 Pathogen[ Q85601] interacts with 13 human partners: {Q13409;Q9NP97;P51808;Q14204;Q8IZS6;Q14203;P63172;O96015;O14576;O14645;Q8TF09;P63167;Q13561}

5454 Pathogen[ P14079] interacts with 16 human partners: {Q8TF09;P63172;P51808;Q96FJ2;Q14204;Q9GZS0;Q9NP97;Q9UI46;Q13409;Q13561;O14645;P63167;O14576;Q8IZS6;O96015;Q14203}

5455 Pathogen[ P03383] interacts with 8 human partners: {P51808;Q96FJ2;P63172;Q14203;Q9NP97;Q8TF09;Q13561;P63167}

5456 Pathogen[ P03410] interacts with 18 human partners: {Q9Y6G9;Q14204;Q8IZS6;P51808;Q13409;Q9NP97;Q13561;Q8TF09;Q9UI46;P63172;P63167;Q8TCX1;O14576;O14645;Q9GZS0;O43237;O96015;Q14203}

5457 Pathogen[ P14075] interacts with 8 human partners: {Q9NP97;P51808;Q13561;Q8TF09;P63172;Q96FJ2;Q14203;P63167}

5458 Pathogen[ P0C206] interacts with 15 human partners: {O14645;Q9NP97;O14576;P63167;Q8TF09;O43237;Q13409;Q14204;P51808;Q9Y6G9;Q8IZS6;Q13561;Q14203;P63172;O96015}

5459 Pathogen[ P03363] interacts with 16 human partners: {P63167;Q9GZS0;Q13561;Q14204;Q8IZS6;Q8TF09;P63172;O14645;Q13409;P51808;Q9UI46;Q9NP97;O43237;Q96FJ2;Q14203;O14576}

5460 [Cluster 497]GO:0046540+C cellular\_component [name] U4/U6 x U5 tri-snRNP complex [def] "A ribonucleoprotein complex formed by the association of the U4/U6 and U5 small nuclear ribonucleoproteins." [PMID

5461 Pathogen[ Q2Q067] interacts with 4 human partners: {O43447;Q8WWY3;O95400;O94906}

5462 Pathogen[ P0C214] interacts with 4 human partners: {O95400;O94906;O43447;Q8WWY3}

5463 Pathogen[ P03346] interacts with 4 human partners: {O95400;O43447;O94906;Q8WWY3}

5464 Pathogen[ Q85601] interacts with 4 human partners: {O94906;Q8WWY3;O95400;O43447}

5465 Pathogen[ P14079] interacts with 4 human partners: {O43447;O94906;Q8WWY3;O95400}

5466 Pathogen[ P03383] interacts with 4 human partners: {O95400;O94906;O43447;Q8WWY3}

5467 Pathogen[ P03410] interacts with 4 human partners: {Q8WWY3;O94906;O95400;O43447}

5468 Pathogen[ P14075] interacts with 4 human partners: {O95400;O94906;O43447;Q8WWY3}

5469 Pathogen[ P0C206] interacts with 4 human partners: {O95400;Q8WWY3;O43447;O94906}

5470 Pathogen[ P03363] interacts with 4 human partners: {O95400;Q8WWY3;O43447;O94906}

5471 [Cluster 498]GO:0001673+C cellular\_component [name] male germ cell nucleus [def] "The nucleus of a male germ cell, a reproductive cell in males." [CL

5472 Pathogen[ Q2Q067] interacts with 7 human partners: {Q9Y615;P27694;Q15554;Q9UHC1;Q92547;Q9BYD9}

5473 Pathogen[ P0C214] interacts with 7 human partners: {Q9Y615;Q15554;Q9BYD9;Q9UHC1;P27694;Q92547;P40692}

5474 Pathogen[ P03346] interacts with 7 human partners: {Q15554;P27694;Q9UHC1;Q9UL49;Q92547;Q9Y615;Q9BYD9}

5475 Pathogen[ Q85601] interacts with 7 human partners: {Q92547;Q15554;Q9BYD9;P27694;Q9Y615;Q9UHC1;P40692}

5476 Pathogen[ P14079] interacts with 8 human partners: {P40692;Q9UHC1;Q9Y615;Q9UL49;Q15554;Q92547;P27694;Q9BYD9}

5477 Pathogen[ P03383] interacts with 6 human partners: {Q15554;Q9UL49;P27694;Q9UHC1;Q92547;Q9Y615}

5478 Pathogen[ P03410] interacts with 8 human partners: {P40692;Q15554;Q9Y615;Q9UL49;Q9BYD9;Q92547;P27694;Q9UHC1}

5479 Pathogen[ P14075] interacts with 5 human partners: {Q15554;Q9UHC1;Q9UL49;P27694;Q92547}

5480 Pathogen[ P0C206] interacts with 8 human partners: {Q15554;P40692;Q9UL49;Q9UHC1;P27694;Q9BYD9;Q92547;Q9Y615}

5481 Pathogen[ P03363] interacts with 7 human partners: {Q92547;P27694;Q15554;Q9UHC1;Q9Y615;Q9BYD9;Q9UL49}

5482 [Cluster 499]GO:0032044+C cellular\_component [name] DSIF complex [def] "A heterodimeric protein complex formed of Spt4 and Spt5 proteins which is expressed in eukaryotes from yeast to man. DSIF is an inhibitory elongation factor that promotes RNA polymerase II transcriptional pausing, but can also stimulate transcriptional elongation under certain conditions, and may play a role in RNA processing via its physical association with mRNA capping enzymes." [PMID

5483 Pathogen[ Q2Q067] interacts with 2 human partners: {O00267;P63272}

5484 Pathogen[ P0C214] interacts with 2 human partners: {O00267;P63272}

5485 Pathogen[ P03346] interacts with 2 human partners: {P63272;O00267}

5486 Pathogen[ Q85601] interacts with 2 human partners: {O00267;P63272}

5487 Pathogen[ P14079] interacts with 2 human partners: {P63272;O00267}

5488 Pathogen[ P03383] interacts with 2 human partners: {P63272;O00267}

5489 Pathogen[ P03410] interacts with 2 human partners: {O00267;P63272}

- 5490 Pathogen[ P14075] interacts with 2 human partners:{000267;P63272}
- 5491 Pathogen[ P0C206] interacts with 2 human partners:{000267;P63272}
- 5492 Pathogen[ P03363] interacts with 2 human partners:{000267;P63272}
- 5493 [Cluster 500]GO:0005813+cellular\_component [name] centrosome [def] "A structure comprised of a core structure (in most organisms, a pair of centrioles) and peripheral material from which a microtubule-based structure, such as a spindle apparatus, is organized. Centrosomes occur close to the nucleus during interphase in many eukaryotic cells, though in animal cells it changes continually during the cell-division cycle."  
[GOC]
- 5494 Pathogen[ Q2Q067] interacts with 210 human partners:{Q12798;Q5SZL2;Q8NH2;P22392;O75161;Q16236;Q96GE4;Q71F23;Q6P2H3;Q14008;Q9Y2Y0;Q9H4X1;Q99417;Q7Z4H7;Q96RT8;Q9P209;Q8NCE0;O95684;Q7Z460;Q13485;O14974;Q14674;Q96ST8;Q9H1H9;Q9BUL9;Q9HAF1;O43805;Q14204;Q5SW79;Q8N137;Q8N0Z3;O94927;Q5VYK3;Q9UJW0;O75935;Q7Z7A1;Q9NZJ0;Q8WVK9;A8MVW5;Q8NHV4;Q86SE9;P63167;Q3B820;Q5FBB7;Q86XR8;Q9H6T0;Q9UJT9;Q9HC77;Q9UPV0;P06748;O14757;Q9UNH5;Q9NVX0;Q6P582;Q9NXR1;P29966;Q13432;Q9NY61;Q9C099;Q9P270;Q96SN8;Q96HR8;Q96K30;Q9BVV6;Q15560;Q1MSJ5;Q14790;A6NKF1;Q5BJF6;Q8IY31;Q2M2Z5;Q5JTW2;Q9NP97;Q8IYA6;P14635;Q99871;Q96QF0;Q68DK2;Q8TEP8;P27695;Q96DB5;Q14203;Q76KD6;P17987;Q99608;Q9C0D2;Q9BYV8;Q14498;Q96LB3;Q8NHQ1;Q9BSU3;Q9NXXB0;Q13561;Q66GS9;O43303;Q8WXW3;O76095;Q96RT7;Q12834;Q96GC6;Q15468;Q9UBK9;Q9UMS0;P24864;O95067;Q9BSJ2;Q969Q6;Q5JR59;P50991;Q9Y5B0;Q9Y6R9;Q9BT25;Q96Q89;Q08211;P42025;Q9H6D7;Q9C0F1;O75419;Q99550;Q96MT8;O15078;Q8TF46;Q12873;P25786;Q5VU43;Q9NRG9;Q13045;Q49A88;Q5TB80;Q99996;Q9BUN5;P40925;Q02241;O75665;O75164;O00139;Q53EZ4;Q96NB1;Q92785;Q8N8E3;O43809;Q08AG7;O94986;Q5TZA2;Q9UN36;Q9NRI5;Q14145;Q15051;P23258;Q9H816;Q8IWC1;Q14839;Q6UVJ0;Q9Y6D9;Q96BD8;Q6QNY1;O75638;Q8NA72;P41208;Q9BPX1;Q86SQ7;Q6DKK2;Q96MB7;P25205;O75154;Q13409;O15182;Q6NZ67;Q9NY27;Q9UGJ1;O95613;Q96FJ2;Q92845;P30305;P43487;P24941;Q8N4C6;Q8WXS3;Q9BX66;Q99689;Q9H7T9;P30260;Q9BPU9;Q86VS8;Q9UH90;Q92597;Q9BPX3;Q9Y535;O00463;Q15834;Q9BXF6;Q96CS2;Q13042;Q15691;P60510;Q8TAP9;Q8IW35;Q96ED9;Q15154;Q68CZ6;Q8NEZ2;Q9BT92;Q9H2G4;Q5VT06;Q9BV73;Q96M11;Q96CW5;P35237;Q8TAP6;Q9NQR4}
- 5495 Pathogen[ P0C214] interacts with 211 human partners:{Q9Y6R9;Q5SZL2;O15078;Q9BPX3;O94927;Q8TAP9;Q9H6T0;O75935;P35237;O75161;Q9H4X1;P27695;Q9BUL9;O43805;P11413;P29966;Q9BSJ2;Q6NZ67;Q15154;Q8IY31;Q14008;Q1MSJ5;O94986;Q86SE9;Q9H816;Q9BR77;O95684;Q9NRI5;Q9UJW0;Q02241;Q969Q6;Q15051;Q9UH90;Q96ED9;P48643;Q6DKK2;Q14203;Q7Z4H7;Q12873;P06748;Q9P209;Q8NHQ1;P43487;Q5SW79;Q9NY27;Q96SN8;Q8NA72;Q14145;Q9C099;A8MVW5;Q8NHV4;Q7Z7A1;Q5VYK3;Q9BYV8;Q9BSU3;Q9BX66;P23258;Q9HC77;Q5JTW2;Q99417;Q96MT8;Q14204;Q8NH2;Q99608;P14635;O75164;O00139;Q96CW5;Q15691;Q9Y61;Q15560;Q9TE1;Q96RT7;Q9UGJ1;P25205;Q5JR59;Q8TF46;Q9BT92;O14974;P60510;Q96CS2;Q8TEP8;Q9UPV0;Q9C0F1;Q96ST8;O43303;Q8IW35;Q76KD6;Q96MB7;Q92597;Q86VS8;Q15834;Q9UMS0;O43809;Q13045;Q96Q89;Q12798;Q9HAF1;Q5VU43;Q9NXXB0;Q96BD8;Q66GS9;Q9NQR4;Q9BPU9;Q8WXW3;Q86XR8;Q9BT25;Q9NRG9;Q13485;Q12834;Q9NZJ0;Q15468;Q53EZ4;O95067;P24941;Q9NXXG0;Q99689;Q99550;Q96M11;Q9BPX1;Q6P2H3;Q96GC6;Q96K30;P30305;P25786;Q8TAP6;Q8NEZ2;Q96DB5;Q96RT8;Q9UNH5;Q9BUL9;Q8N0Z3;Q43805;Q12834;P30305;Q15051;Q8TEP8;Q6P2H3;Q96ST8;Q13432;Q16236;Q76KD6;Q9Y5B0;Q8TAM2;Q99417;Q5TB80;P25205;P41208;Q9C0D2;O75161;Q9NQR4;Q86SE9;Q9NXXB0;Q9NVX0;Q66GS9;O75665;Q8N960;A6NKF1;Q8WXW3;Q8IW35;Q2KHM9;Q92597;Q9BPX3;P14635;Q86SQ7;Q13042;O94986;Q6QNY1;Q96SN8;O75164;P50991;Q6ZP65;Q14008;P51587;Q5VT06;Q9Y6R9;Q9BQI6;Q68CZ6;Q9UGJ1;Q5VYK3;Q9Y535;Q9NY61;Q96K30;P36404;Q53EZ4;Q96Q89;O75604;P25786;Q8TAP6;P42025;O00399;Q9H6T0;P22392;Q5BJF6;Q96LB3;Q3YEC7;Q969Q6;Q8N157;Q3B820;P30622;P29966;Q68DK2;O43809;Q02241;Q9C099;Q9BYV8;Q8TAP9;Q9UH90;Q99608;Q8IWC1;P36405;Q9NVN3;Q96ED9;Q14790;Q99996;Q13409;Q96PY6;Q96DB5;O75638;Q96CS2;Q8NHQ1;Q5TZA2;Q99550;Q12798;Q8WVK9;Q9BXF6;Q12873;P63167;Q13485;Q9BSJ2;Q08AG7;Q7Z460;Q92845;P27695;Q9HAF1;Q9Y2Y0;O95613;O15182;O15078;Q96GE4;Q96RT7;Q13045;O94927;Q14145;O75154;Q8N4C6;O76095;P40925;Q5VU43;Q9UN36;Q8WXS3;P30260;O75419;Q9H816;Q9P270;Q96GC6;O14974;Q15468;Q96HR8;Q1MSJ5;Q14674;Q9UBK9;Q96BD8;O14965;Q9NP97;Q6UVJ0;Q5SW79;Q8TF46;Q76N32;Q96MB7;Q92785;Q71F23;P60510;Q92834;Q6DKK2;Q6IQ23;Q9UNH5;O43303;Q9BVV6;Q96NB1;Q14839;Q8NCE0;Q96M02;Q6EMB2;Q9H7T9;Q9UPV0;Q9BUN5;Q96MT8;Q96QF0;Q13561;O00444;P17987;Q9BV73}
- 5496 Pathogen[ P03346] interacts with 242 human partners:{Q9NZJ0;Q5SZL2;Q6P582;Q9Y6D9;Q9NRI5;Q0P6D6;O00463;Q5T6F0;Q7Z7A1;Q9BT25;Q5FBB7;Q96FJ2;Q9H6D7;Q9H4X1;Q96NL6;Q9UJW0;Q6NZ67;Q15834;Q8IYA6;Q86XR8;Q8N8E3;Q9BR77;Q5JTW2;Q86VS8;O95684;Q9BSU3;P06748;Q96M11;Q5JR59;Q2M2Z5;P23258;Q99871;Q96RT8;Q7Z4H7;Q9BPU9;Q8IY31;Q9UJT9;Q9ULJ1;Q15154;Q9NRG9;O75935;O00139;Q8N137;Q8NH2;Q9BPX1;Q15691;Q99689;P43487;A8MVW5;Q8NHV4;P24941;Q9NY27;Q68CZ1;Q9NXXG0;Q14498;P35237;Q8NA72;Q8NEZ2;Q9H2G4;Q49A88;Q9HC77;Q9UMS0;O14757;Q9NXR1;Q9P255;P24864;Q9P209;Q9H1H9;Q15560;Q14204;Q14203;Q9BX66;Q96CW5;Q08211;O95067;O60662;Q9BT61;Q9BT92;Q9C0F1;Q9BUL9;Q8N0Z3;Q43805;Q12834;P30305;Q15051;Q8TEP8;Q6P2H3;Q96ST8;Q13432;Q16236;Q76KD6;Q9Y5B0;Q8TAM2;Q99417;Q5TB80;P25205;P41208;Q9C0D2;O75161;Q9NQR4;Q86SE9;Q9NXXB0;Q9NVX0;Q66GS9;O75665;Q8N960;A6NKF1;Q8WXW3;Q8IW35;Q2KHM9;Q92597;Q9BPX3;P14635;Q86SQ7;Q13042;O94986;Q6QNY1;Q96SN8;O75164;P50991;Q6ZP65;Q14008;P51587;Q5VT06;Q9Y6R9;Q9BQI6;Q68CZ6;Q9UGJ1;Q5VYK3;Q9Y535;Q9NY61;Q96K30;P36404;Q53EZ4;Q96Q89;O75604;P25786;Q8TAP6;P42025;O00399;Q9H6T0;P22392;Q5BJF6;Q96LB3;Q3YEC7;Q969Q6;Q8N157;Q3B820;P30622;P29966;Q68DK2;O43809;Q02241;Q9C099;Q9BYV8;Q8TAP9;Q9UH90;Q99608;Q8IWC1;P36405;Q9NVN3;Q96ED9;Q14790;Q99996;Q13409;Q96PY6;Q96DB5;O75638;Q96CS2;Q8NHQ1;Q5TZA2;Q99550;Q12798;Q8WVK9;Q9BXF6;Q12873;P63167;Q13485;Q9BSJ2;Q08AG7;Q7Z460;Q92845;P27695;Q9HAF1;Q9Y2Y0;O95613;O15182;O15078;Q96GE4;Q96RT7;Q13045;O94927;Q14145;O75154;Q8N4C6;O76095;P40925;Q5VU43;Q9UN36;Q8WXS3;P30260;O75419;Q9H816;Q9P270;Q96GC6;O14974;Q15468;Q96HR8;Q1MSJ5;Q14674;Q9UBK9;Q96BD8;O14965;Q9NP97;Q6UVJ0;Q5SW79;Q8TF46;Q76N32;Q96MB7;Q92785;Q71F23;P60510;Q92834;Q6DKK2;Q6IQ23;Q9UNH5;O43303;Q9BVV6;Q96NB1;Q14839;Q8NCE0;Q96M02;Q6EMB2;Q9H7T9;Q9UPV0;Q9BUN5;Q96MT8;Q96QF0;Q13561;O00444;P17987;Q9BV73}
- 5497 Pathogen[ Q85601] interacts with 222 human partners:{Q53EZ4;Q8NHQ1;Q5VYK3;Q5SZL2;P61163;Q9BUL9;Q96M02;O75161;Q9H7T9;Q13409;Q8N137;Q9H4X1;Q9UJW0;Q96LB3;Q9NP97;Q16236;O75154;Q6UVJ0;Q15834;Q02241;O94986;Q15154;P36405;Q8N8E3;Q9BR77;Q86VS8;O95684;Q14008;Q8WVK9;Q9UN36;Q2M2Z5;Q9H6D7;Q9BT25;O15182;Q99871;Q96RT8;Q9NY61;O00463;Q96HR8;Q96PY6;Q12798;Q9BX66;Q9Y535;Q6NZ67;Q96SN8;Q9HAF1;O75935;Q7Z4H7;Q9BPX1;Q14790;Q99417;P43487;Q9NRG9;Q9NVX0;A8MVW5;Q8NHV4;Q9NY27;P30622;Q9Y2Y0;Q71F23;Q9HC77;Q9NZJ0;Q9UMS0;Q14204;Q9P209;Q13045;Q9H1H9;Q9C099;Q6IQ23;O15078;Q92834;Q5B

JF6;Q14203;Q14674;Q6ZP65;P17987;Q96CW5;Q86SE9;Q15560;Q9BT92;Q99608;O43303;Q9BTE1;Q6P2H3;Q08211;A6NKF1;P35237;Q14145;Q12834;Q5JTW2;Q8TEP8;P23258;Q8TAP9;O14757;Q96ST8;Q76KD6;Q9UNH5;P30305;O14965;Q9UPV0;Q86XR8;Q9BPX3;Q96Q89;Q9BSJ2;Q9NQR4;Q9NXB0;Q66GS9;Q86SQ7;O75665;Q92785;P50991;Q76N32;Q8WXW3;P25205;Q9ULJ1;Q9UGJ1;Q9BXF6;P14635;Q13042;Q9BV73;Q96MB7;Q9Y5B0;Q12873;Q5VT06;Q9C0F1;Q6DKK2;Q15691;Q96M11;Q15051;Q96MT8;Q96BD8;Q9Y6D9;Q9UJT9;Q1MSJ5;Q96GC6;P25786;Q9BYV8;Q7Z7A1;Q5TB80;Q99550;O00399;Q9NXG0;Q9BVA0;Q8IW35;P06748;P22392;Q99689;O94927;Q3B820;Q8IYA6;P29966;Q68DK2;Q9BSU3;P40925;Q8IWC1;Q5JR59;Q8TAP6;O76095;Q99996;Q9BPU9;Q5VU43;O75638;Q96CS2;P60510;Q92845;Q9NRI5;Q5TZA2;O14974;O75164;Q13432;Q7Z460;Q5SW79;Q08AG7;Q92597;Q9H2G4;O95613;Q8N0Z3;O95067;Q8N4C6;P48643;Q9NXR1;Q96K30;Q8WXS3;Q8NEZ2;P30260;O75419;Q6P582;Q9H816;Q9UBK9;Q9P270;Q96ED9;Q13485;Q9C0D2;Q9GZM8;Q6QNY1;Q8NHY2;P24941;Q14498;Q969Q6;P42025;P27695;P63167;O00139;Q8TF46;P51587;Q68CZ6;Q96DB5;Q5FBB7;P51955;O43805;Q8IY31;Q8NA72;O43809;Q96NB1;Q14839;Q8NCE0;Q96RT7;Q96QF0;Q13561;P24864;P41208;Q9UH90}

5498 Pathogen[ P14079] interacts with 247 human partners: {O43809;Q15691;Q8WYA0;Q2M2Z5;Q15560;O95070;O00463;O75161;Q8NA72;Q9H7T9;P48643;O94830;P35237;Q5TZA2;Q96K30;Q8WXW3;Q6UVJ0;O75419;Q68DK2;Q99996;Q8IY31;Q6IQ23;Q96NL6;Q8TEP8;Q8WXS3;Q7Z460;Q9Y5B0;O95684;Q9P209;Q9Y6A5;Q96FJ2;P24864;Q86VS8;Q96GE4;Q9NY61;O94986;O76095;Q99871;Q96ED9;Q8N157;Q49A88;Q9UGJ1;Q68CZ1;Q02241;P50991;O14974;Q9NVX0;Q14204;Q9NXG0;Q5JTW2;Q92834;Q9Y2Y0;Q66GS9;Q9BR77;P51587;Q1MSJ5;Q96ST8;Q8N8E3;O95067;Q9NRI5;Q6P582;Q9BV73;Q92785;Q9NY27;A8MVW5;Q14674;Q9HAF1;Q13045;P50990;O00399;Q96HR8;Q8TAP6;Q9UJW0;Q8TF46;Q92597;Q76KD6;Q8NCE0;Q76N32;Q9BVV6;Q14498;Q5VYK3;Q9BQI6;Q08211;Q99608;Q5FBB7;Q12873;Q9NP97;Q8N960;Q9BSU3;Q5SZL2;Q08AG7;Q8IWX6;Q96MB7;Q96M02;O15066;Q9BTE1;P36405;Q9BUN5;Q5BJF6;Q71F23;Q0P6D6;P14635;Q9UPM9;P51955;Q9UMS0;Q14790;Q99689;Q8NHV4;Q9H6T0;Q14145;Q9BXF6;P22392;Q8N4C6;Q9UH90;Q96Q89;P29966;Q5VT06;Q8NBT0;Q2KHM9;Q9H2G4;Q7Z4L9;Q8IWC1;Q96RT8;P17987;Q12798;Q13042;O00139;Q8TAM2;Q96QF0;Q9ULJ1;P23258;Q4AC94;Q9H1H9;Q9UBK9;Q96RT7;Q9H6D7;Q15468;Q9BUL9;Q8NEZ2;Q99417;Q9BPU9;A6NKF1;Q15834;Q13409;P27695;Q13561;Q8TCU4;Q9P2L0;Q15042;Q5SW79;Q8N0Z3;P06748;Q9BSJ2;Q6ZP65;O43303;Q9C0F1;Q9C099;Q6DKK2;Q16236;P61163;Q9GZM8;Q96DB5;Q5TB80;Q8WKK9;Q8TAP9;Q86SQ7;P41208;Q13432;Q8TC44;Q14839;Q9P270;Q3B820;Q9BPX3;P30260;O95613;Q969Q6;Q15051;P63167;P60510;Q9BT92;O15078;Q6EMB2;Q9UJW0;Q7Z4H7;Q9NZJ0;Q8N137;O75154;Q9BT25;O15182;Q6P2H3;P30305;Q8NHQ1;Q96Q11;Q6NZM7;Q5JR59;O75638;Q68CZ6;O75665;Q15154;Q9UJT9;Q92845;Q9NXR1;Q96XR8;Q92845;Q96N33;P40925;Q5T6F0;Q9Y6R9;Q9BX66;Q8IYA6;Q96BD8;Q9BVA0;Q9UN36;O14965;Q6QNY1;O75935;Q9P2S5;Q9C0D2;Q9HC77;Q96M11;Q9NRG9;Q8IW35;Q9H816;Q96SN8;Q9NVN3;P25205;Q9NXB0;Q9NQR4;Q9BYV8;Q6IQ19;Q14203;Q9Y535;Q9UNH5;O43805;Q53EZ4;Q99550;Q7Z7A1;Q86SE9;O94927;Q5VU43;P30622;Q96CW5;Q96GC6;Q9UPV0;Q96NB1;Q14008;Q8NHY2;Q96CS2}

5499 Pathogen[ P03383] interacts with 186 human partners: {Q7Z7A1;Q9Y6R9;Q9Y2Y0;Q9NY61;Q8N0Z3;Q86XR8;Q5JR59;Q9BVV6;O14757;Q9H4X1;Q7Z460;Q14839;Q6UVJ0;Q13485;Q969Q6;Q9UJW0;Q9BSJ2;P06748;Q1MSJ5;Q96BD8;Q68DK2;Q15051;Q02241;Q8WXS3;O94986;Q14008;Q9NZJ0;Q15691;Q96QF0;O95684;Q8IY31;Q8WKK9;Q9BUN5;Q9NVX0;Q49A88;Q5FBB7;Q96FJ2;Q96MB7;Q9NRI5;Q99608;Q5VYK3;P42025;Q9Y535;Q14203;Q6NZ67;Q96SN8;Q7Z4H7;Q99689;Q96CW5;O43303;P25205;A8MVW5;P41208;Q8NHV4;Q9BV73;P22392;P40925;Q9HC77;Q15468;Q8NCE0;Q12798;Q8NEZ2;O75638;Q9UN36;Q96K30;Q92597;Q15560;Q13042;Q13432;P14635;Q5VT06;Q96MT8;Q08AG7;Q96DB5;Q9C0F1;A6NKF1;O75164;Q9H1H9;Q9BSU3;Q8TEP8;Q71F23;Q5VU43;Q12834;Q76KD6;Q99871;Q5TZA2;Q96NB1;Q5TB80;Q12873;Q96CS2;Q2M2Z5;Q9H816;O94927;Q86SE9;Q9NXB0;Q66GS9;Q86SQ7;Q8IYA6;Q9H6T0;Q14674;P43487;Q8WXW3;O15078;P24941;Q9BPU9;Q9UNH5;Q99417;Q6DKK2;Q68CZ6;Q15154;O95067;P29966;Q9BT92;Q96Q89;P25786;Q9BYV8;Q9BT25;Q86VS8;Q9UMS0;O75935;Q5BJF6;Q96ED9;Q96LB3;Q96HR8;Q16236;Q9NQR4;O43809;O14965;Q96ST8;Q8IWC1;O75419;Q6P582;Q96GC6;Q9UPV0;Q9H2G4;Q8TAP6;Q14145;Q9NY27;Q96PY6;Q9P209;P35237;Q9NRG9;O75161;Q3B820;Q8N137;Q9Y5B0;Q9H6D7;Q5SW79;Q99996;Q92845;Q92785;P27695;Q9HAF1;Q8NA72;O95613;Q13561;Q9C099;Q13045;Q9H7T9;Q8N4C6;O76095;Q6P2H3;Q8NHY2;Q8N8E3;Q9BUL9;P24864;P30260;Q9UBK9;Q9P270;P63167;Q9C0D2;O75665;Q15834;Q53EZ4;O75154;Q9BPX3;P60510;Q8NHQ1;Q96M11;Q8TAP9;Q9Y6D9;Q6QNY1;Q8IW35;Q9BPX1;Q14498}

5500 Pathogen[ P03410] interacts with 249 human partners: {Q3B820;Q96M02;Q9Y6G9;O95684;Q96M11;Q8NHY2;O75665;Q7Z460;Q14204;Q9BSU3;Q96Q11;Q96Q89;P17987;O75154;Q8N960;Q9H4X1;P25205;Q5JR59;Q12873;Q8IWC1;O75638;P48643;Q96NB1;Q13409;P30622;Q9H6D7;Q6QNY1;Q8TEP8;Q9H816;Q9BPX1;Q9NP97;Q13561;Q96DB5;O00139;O43303;Q96MB7;P25786;Q66GS9;Q969Q6;Q9NXR1;Q9HC77;Q9H7T9;Q99996;Q9GZM8;Q15154;P60510;Q96K30;Q9H1H9;O75419;Q7Z7A1;Q6UVJ0;Q4AC94;Q7Z4L9;Q99608;Q8TAM2;Q8WKK9;Q14008;Q96SN8;Q8NBT0;Q16236;Q8TF46;Q15468;Q9P2S5;P36405;O15182;Q9Y6R9;Q9NY61;Q5VYK3;Q92845;Q8IYA6;Q86SE9;Q96GC6;O95067;Q9C0D2;O00399;O75161;Q8NCE0;P63167;Q12798;Q9P209;Q92785;Q9UJW0;Q8N137;Q86VS8;Q9Y6A5;P06748;Q9UBK9;Q6DKK2;Q9UNH5;Q9BVV6;Q13045;Q8TAP9;Q9BYV8;Q9NVN3;Q68CZ6;Q14674;P61163;Q9Y535;Q96CS2;Q15560;O14965;O43809;Q96NL6;O43805;Q8NHV4;Q8N0Z3;Q9NQR4;Q2KHM9;Q8NEZ2;Q9BT92;O94986;Q6IQ19;Q8WXW3;Q8TAP6;P14635;Q9UN36;Q6P2H3;Q15691;Q13042;P50990;Q9BPU9;Q9BQI6;Q5SZL2;Q96GE4;Q8IY31;Q9BUL9;Q96ED9;P24941;O00463;Q5TZA2;Q9BR77;P51587;Q9BTE1;Q9UMS0;Q5VU43;Q9NVX0;Q8N157;Q99550;P43487;Q71F23;Q8WYA0;Q9BXF6;Q13485;O15078;O14974;Q9UPM9;Q92834;O94830;Q15834;Q96ST8;Q8N4C6;Q86SQ7;A8MVW5;O14757;Q5T6F0;Q5BJF6;O75935;Q9BUN5;Q53EZ4;Q9BSJ2;O94927;Q15051;Q12834;P30260;Q8NA72;Q8IW35;Q9Y5B0;Q5FBB7;Q96QF0;P42025;Q9NRI5;Q49A88;Q96RT8;Q8TC44;Q9H6T0;P23258;P27695;Q2M2Z5;Q5TB80;Q08AG7;Q1MSJ5;Q96HR8;Q9UPV0;Q14498;Q9NXB0;Q92597;Q8IWX6;Q99417;Q6NZ67;Q6ZP65;O76095;Q9ULJ1;P40925;Q9C099;Q96CW5;A6NKF1;Q9P270;Q99871;Q96BD8;Q9NXG0;Q76N32;P30305;Q8NCE0;Q9UJT9;Q9BPX3;Q96RT7;Q96LB3;Q9P2L0;Q5SW79;Q68CZ1;O75164;O95613;Q13432;Q9C0F1;Q9Y2Y0;Q14145;Q9H2G4;Q6P582;P35237;Q9NRG9;P41208;Q14839;Q68DK2;Q08211;P24864;Q8WXS3;Q9BV73;Q76KD6;Q15042;Q9BT25;P29966;Q9BX66;Q7Z4H7;Q9UGJ1;O43237;Q6EMB2;Q5JTW2;O95070;Q6IQ23;Q9NY27;Q9BVA0;Q8N8E3;P50991;Q0P6D6;Q14203;Q02241;Q5VT06;Q9NZJ0;Q99689}

5501 Pathogen[ P14075] interacts with 190 human partners: {Q9Y6R9;Q96MT8;Q99871;Q96M11;P40925;O43303;Q9H4X1;Q9NP97;Q9BYV8;Q99608;Q86SE

9;Q9NQR4;Q6NZ67;Q13042;O43809;Q9H1H9;O95067;P24941;Q9UMS0;O95684;Q6P582;Q9Y6D9;Q15051;Q02241;Q5VT06;Q5VU43;Q7Z4H7;O76095;Q92845;P27695;Q9H7T9;P14635;Q08AG7;P43487;Q9Y5B0;Q86SQ7;A8MVW5;Q8NHV4;Q7Z460;Q9NY61;P60510;Q14839;Q13561;Q9Y2Y0;Q9BSU3;Q8IY31;O75419;Q49A88;Q68CZ6;Q9HC77;Q96SN8;Q6UVJ0;Q5TZA2;Q12798;Q8NHQ1;Q96BD8;Q15560;Q96ST8;Q9BT92;Q9H2G4;Q9BT25;Q96GE4;Q8NEZ2;O75638;Q9NRI5;Q96HR8;Q8TEP8;Q5JR59;Q92785;Q9BUN5;Q9BVV6;Q76KD6;Q13485;Q9UPV0;Q969Q6;Q96MB7;Q68DK2;Q9NXB0;Q8WXS3;Q66GS9;Q9C0F1;Q99996;Q9NY27;Q15078;Q8NCE0;Q5SW79;O00139;Q5BJF6;Q8WXW3;Q96FJ2;Q2KHM9;O75935;Q9HAF1;P29966;O75161;Q96LB3;Q86XR8;Q6IQ19;Q9UBK9;P25205;O14965;Q96NB1;Q96K30;Q15834;Q6QNY1;Q15691;Q9BV73;Q5TB80;Q9Y535;Q6P2H3;Q9UN36;Q8N137;Q9H816;Q9C099;P25786;Q8TAP6;Q96CS2;Q9BPU9;Q99417;P06748;Q96DB5;Q5FBB7;Q8NHY2;O94986;P41208;Q8IYA6;Q15154;A6NKF1;Q8IWC1;Q53EZ4;Q9BXF6;Q9NVX0;Q96QF0;Q14674;Q15468;Q96PY6;Q8WVK9;Q96GC6;O94927;O75665;Q92597;Q86VS8;O75154;O95613;Q9P209;Q14203;Q14008;Q8N4C6;Q16236;Q8TAP9;Q9NZJ0;Q9UJW0;Q9BUL9;Q1MSJ5;P30260;Q8N8E3;Q9P270;Q13432;Q9BSJ2;Q9NRG9;Q12873;Q9UNH5;Q9BPX3;Q9H6D7;Q9C0D2;Q96Q89;Q7Z7A1;Q71F23;P63167;P42025;P35237;O14757;Q12834;Q96CW5;P22392;Q2M2Z5;Q14145;Q14498;Q13045;Q6DKK2;O75164;Q96ED9;Q8NA72;Q8N0Z3;Q8IW35;Q5VYK3;P24864;Q99689;Q9H6T0;Q3B820}

5502 Pathogen[ P0C206] interacts with 248 human partners: {P27695;Q9BPU9;Q5JTW2;Q5SW79;Q8WXW3;Q92597;Q9UJT9;O15182;Q68DK2;Q9BUL9;P48643;Q8N137;Q86XR8;Q9BPX3;Q96NL6;Q15468;Q96M02;Q8N8E3;O94986;Q96DB5;Q9BVA0;Q5SZL2;Q8NEZ2;Q96SN8;Q9C099;Q9NP97;Q9HC77;Q9H7T9;Q86SQ7;Q14008;Q96Q89;Q13432;Q9H4X1;Q9NRG9;Q96ST8;Q92845;Q5BJF6;O95684;Q9Y6R9;Q9BTE1;Q9UPM9;Q9BT92;Q9BXF6;P25786;Q9Y6D9;Q8TAM2;Q8NA72;Q9BVV6;P22392;O75161;Q96RT7;Q8IY31;O75419;P51955;O75154;P25205;P51587;Q9C0D2;Q5TZA2;Q6P2H3;O75638;Q8TCU4;Q08211;Q96CW5;O75604;P63167;Q15691;Q9BR77;Q13045;O95070;Q9UH90;Q9BT25;Q96K30;Q96PY6;O00444;Q6QNY1;Q6UVJ0;Q9UPV0;Q99550;Q6ZP65;Q96MB7;P50991;P30305;P35237;Q9H816;Q5JR59;Q2KHM9;Q0P6D6;Q99996;Q8WYA0;P17987;O43809;Q9H1H9;P30622;O43237;Q9BQI6;P30260;Q02241;Q9GZM8;Q13409;Q14145;Q9UGJ1;Q9Y535;Q86VS8;Q96ED9;Q8TEP8;Q9NVX0;P61163;Q8IWC1;O14974;Q14839;Q99689;Q8TAP6;Q969Q6;Q92785;Q96QF0;Q6DKK2;A8MVW5;Q9BPX1;Q96BD8;A6NKF1;Q2M2Z5;Q14204;Q86SE9;Q9UNH5;Q9Y5B0;Q96M11;Q9UJW0;O95613;Q15560;Q8NHY2;Q9BUN5;P43487;Q9Y6A5;Q6IQ19;Q9NQR4;Q9Y6G9;P40925;O15078;Q9NRI5;Q15834;Q66GS9;Q96LB3;Q96CS2;Q8IW35;Q14790;Q7Z4H7;Q5FBB7;Q5VT06;Q8N157;Q9BYV8;Q99608;Q96GC6;O94927;Q5VU43;Q9HAF1;Q9NY27;Q9BV73;Q8NHV4;O00399;Q9H2G4;Q13485;P23258;O00139;O00463;Q9NZJ0;Q96HR8;O75665;Q13561;Q76N32;P36405;Q5VYK3;Q9BX66;Q9H6T0;Q6P582;Q14674;Q3B820;Q7Z7A1;Q9NXG0;Q9H6D7;Q99871;P41208;Q99417;Q49A88;Q16236;Q9BSU3;O75164;Q5T6F0;Q8N0Z3;O94830;Q8WXS3;O95067;Q9NXR1;Q9P270;Q8TAP9;Q9UBK9;Q8IYA6;Q9P209;Q9UN36;Q12798;P06748;P14635;Q8NCE0;P60510;Q1MSJ5;Q9Y2Y0;O14965;O43805;Q8N4C6;Q96MT8;Q7Z460;Q9C0F1;Q14203;O75935;Q15154;Q9NXB0;Q13042;Q8NHQ1;Q96NB1;Q9NY61;P42025;Q15051;Q14498;Q71F23;Q8TF46;Q6IQ23;P24864;P24941;Q08AG7;Q86YT6;Q8WVK9;Q9BSJ2;Q68CZ6;Q9ULJ1;Q9NVN3;Q92834;Q6EMB2;Q5TB80;Q8N960;Q12834;Q6NZ67;P29966;Q12873;O76095;Q96GE4;Q76KD6;O43303}

5503 Pathogen[ P03363] interacts with 232 human partners: {Q5BJF6;Q16236;Q9H816;Q8WXW3;Q86VS8;Q92845;Q9Y535;Q5SZL2;A6NKF1;Q15834;Q15051;Q13042;O75638;Q8IYA6;O75161;Q96DB5;Q9Y5B0;Q7Z7A1;Q9Y6D9;P63167;Q9HC77;Q6EMB2;Q9UNH5;Q14145;Q96ED9;Q9H4X1;P35237;Q76N32;Q8TAM2;Q15468;Q9BYV8;Q969Q6;Q9BX66;P24864;Q3B820;Q5VT06;Q9UMS0;Q9NXG0;Q99996;Q96MT8;Q96BD8;O15078;Q9UJT9;Q8NHV4;O43805;P40925;Q8NBT0;Q1MSJ5;Q66GS9;Q13561;P25205;Q8WVK9;O43303;O75604;Q15691;O95684;Q6P582;Q9UJW0;Q86SE9;Q9H7T9;Q13045;Q92597;Q99550;Q8NHQ1;O00463;O00399;O95613;Q9UN36;O94986;Q14204;Q9H6D7;Q02241;Q96K30;Q9BT25;O75164;Q9C099;Q5VU43;Q8TAP6;Q96MB7;Q96M02;P24941;Q96GC6;Q14839;P41208;Q9UBK9;Q68DK2;Q9P209;Q8WXS3;P30260;Q0P6D6;Q49A88;Q96GE4;P06748;Q9HAF1;Q5FBB7;Q8TEP8;Q8IWC1;Q6ZP65;P50991;Q99608;Q9BQI6;Q5JR59;Q5TZA2;Q9BPX1;Q9NRG9;Q5JTW2;P61163;Q9BSU3;A8MVW5;P30622;Q9NY61;Q5T6F0;Q53EZ4;Q68CZ6;O43809;O95067;Q12798;Q8N157;O94927;Q6DKK2;Q9P2S5;Q8IY31;Q9H2G4;Q13432;Q6IQ19;P43487;Q96RT8;Q9BVV6;Q9NVX0;Q9BPU9;Q9UH90;Q96ST8;O75935;Q08AG7;P17987;Q7Z460;Q9BPX3;Q9BT92;Q6QNY1;Q6P2H3;Q8N0Z3;P60510;Q14674;Q96NB1;Q96CS2;Q9P270;P42025;Q71F23;Q99871;Q13409;P29966;O76095;O75154;O15066;O14974;Q9UPV0;Q9BXF6;Q9NY27;Q8IW35;Q13485;O15182;Q96RT7;Q76KD6;Q8NEZ2;Q9NRI5;Q9UGJ1;Q9BTE1;Q9C0F1;Q92834;Q12873;Q86XR8;Q96Q89;Q12834;Q14008;Q9Y2Y0;Q8NHY2;Q8NA72;Q14498;O60662;Q9H1H9;Q8N4C6;Q8N8E3;Q96M11;Q9NP97;Q15560;Q9NXR1;Q9NXB0;Q9C0D2;P23258;O00139;Q8TF46;Q6NZ67;Q9NZJ0;Q2KHM9;Q86SQ7;Q9Y6R9;Q08211;Q96LB3;O43237;Q7Z4H7;P48643;Q15154;Q5TB80;Q6IQ23;Q9H6T0;Q96FJ2;Q14203;Q96HR8;Q2M2Z5;Q9BSJ2;Q8NCE0;Q9BUL9;Q9BV73;Q9NQR4;O75419;Q5VYK3;Q8TC44;Q3YEC7;Q9BUN5;Q96QF0;Q8TAP9;Q6UVJ0;O75665;Q99689;Q96CW5;Q92785;Q96SN8;O14757;Q8N137;Q8N960;Q5SW79}

5504 [Cluster 501]GO:0032798+C cellular\_component [name] Swi5-Sfr1 complex [def] "A conserved DNA recombinase mediator complex that contains two Swi5 monomers and one Sfr1 monomer in Schizosaccharomyces, or orthologs thereof (e.g. Sae3p and Mei5p in Saccharomyces)." [PMID

- 5505 Pathogen[ Q2Q067] interacts with 2 human partners: {Q1ZZU3;Q86XK3}
- 5506 Pathogen[ P0C214] interacts with 2 human partners: {Q1ZZU3;Q86XK3}
- 5507 Pathogen[ P03346] interacts with 2 human partners: {Q86XK3;Q1ZZU3}
- 5508 Pathogen[ Q85601] interacts with 2 human partners: {Q1ZZU3;Q86XK3}
- 5509 Pathogen[ P14079] interacts with 2 human partners: {Q1ZZU3;Q86XK3}
- 5510 Pathogen[ P03383] interacts with 2 human partners: {Q86XK3;Q1ZZU3}
- 5511 Pathogen[ P03410] interacts with 2 human partners: {Q1ZZU3;Q86XK3}
- 5512 Pathogen[ P14075] interacts with 2 human partners: {Q1ZZU3;Q86XK3}
- 5513 Pathogen[ P0C206] interacts with 2 human partners: {Q86XK3;Q1ZZU3}
- 5514 Pathogen[ P03363] interacts with 2 human partners: {Q1ZZU3;Q86XK3}

5515 [Cluster 502]GO:0030893+C cellular\_component [name] meiotic cohesin complex [def] "A cohesin complex that mediates sister chromatid cohesion during meiosis\_has a subunit composition distinct from that of the mitotic cohesin complex." [GOC

- 5516 Pathogen[ Q2Q067] interacts with 2 human partners: {Q9UJ98;Q14683}



5517 Pathogen[ P0C214] interacts with 2 human partners:{Q9UJ98;Q14683}

5518 Pathogen[ P03346] interacts with 2 human partners:{Q9UJ98;Q14683}

5519 Pathogen[ Q85601] interacts with 2 human partners:{Q9UJ98;Q14683}

5520 Pathogen[ P14079] interacts with 3 human partners:{Q9UJ98;Q9UQE7;Q14683}

5521 Pathogen[ P03383] interacts with 2 human partners:{Q14683;Q9UJ98}

5522 Pathogen[ P03410] interacts with 3 human partners:{Q9UQE7;Q14683;Q9UJ98}

5523 Pathogen[ P14075] interacts with 2 human partners:{Q14683;Q9UJ98}

5524 Pathogen[ P0C206] interacts with 3 human partners:{Q9UJ98;Q9UQE7;Q14683}

5525 Pathogen[ P03363] interacts with 2 human partners:{Q9UJ98;Q14683}

5526 [Cluster 503]GO:0016602+C cellular\_component [name] CCAAT-binding factor complex [def]  
 "A heteromeric transcription factor complex that binds to the CCAAT-box upstream of promoters\_in Saccharomyces it activates the transcription of genes in response to growth in a nonfermentable carbon source\_ consists of four known subunits

5527 Pathogen[ Q2Q067] interacts with 4 human partners:{P23511;P25208;Q9H160;Q13952}

5528 Pathogen[ P0C214] interacts with 4 human partners:{Q13952;P25208;Q9H160;P23511}

5529 Pathogen[ P03346] interacts with 4 human partners:{P23511;P25208;Q13952;Q9H160}

5530 Pathogen[ Q85601] interacts with 4 human partners:{P25208;Q13952;P23511;Q9H160}

5531 Pathogen[ P14079] interacts with 3 human partners:{Q13952;P23511;Q9H160}

5532 Pathogen[ P03383] interacts with 4 human partners:{P23511;P25208;Q13952;Q9H160}

5533 Pathogen[ P03410] interacts with 4 human partners:{P23511;P25208;Q9H160;Q13952}

5534 Pathogen[ P14075] interacts with 4 human partners:{P25208;Q13952;P23511;Q9H160}

5535 Pathogen[ P0C206] interacts with 4 human partners:{Q9H160;P23511;Q13952;P25208}

5536 Pathogen[ P03363] interacts with 4 human partners:{Q9H160;Q13952;P25208;P23511}

5537 [Cluster 504]GO:0032588+C cellular\_component [name] trans-Golgi network membrane [def]  
 "The lipid bilayer surrounding any of the compartments that make up the trans-Golgi network." [GOC

5538 Pathogen[ Q2Q067] interacts with 13 human partners:{Q9Y6Q5;Q10567;P56377;O43747;Q9H1H9;O43752;Q96PC3;O15127;Q00610;P61966;Q9BXS5;Q8TAC9;P09496}

5539 Pathogen[ P0C214] interacts with 11 human partners:{Q8TAC9;O15127;Q10567;P56377;Q96PC3;O43752;O43747;Q9Y6Q5;P61966;P09496;Q9BXS5}

5540 Pathogen[ P03346] interacts with 13 human partners:{P61966;O43752;O43747;P56377;Q9BXS5;Q9H1H9;P09496;Q10567;Q8TAC9;Q96PC3;Q9Y6Q5;Q00610;O15127}

5541 Pathogen[ Q85601] interacts with 13 human partners:{Q00610;P09496;Q8TAC9;Q9BXS5;P56377;O43747;Q9H1H9;Q10567;O43752;Q96PC3;O15127;P61966;Q9Y6Q5}

5542 Pathogen[ P14079] interacts with 12 human partners:{Q9Y6Q5;P61966;Q9BXS5;Q00610;Q10567;P56377;Q8TAC9;Q9H1H9;O43747;O43752;Q96PC3;P09496}

5543 Pathogen[ P03383] interacts with 9 human partners:{P56377;Q00610;Q8TAC9;Q10567;Q9H1H9;O43747;O15127;O43752;Q9BXS5}

5544 Pathogen[ P03410] interacts with 13 human partners:{Q00610;P09496;Q9Y6Q5;Q96PC3;Q9BXS5;Q8TAC9;Q9H1H9;O43747;Q10567;O15127;O43752;P61966;P56377}

5545 Pathogen[ P14075] interacts with 10 human partners:{P09496;Q9H1H9;O43752;O15127;O43747;Q8TAC9;P56377;Q9BXS5;Q10567;Q00610}

5546 Pathogen[ P0C206] interacts with 13 human partners:{O15127;Q9Y6Q5;O43747;Q10567;O43752;P61966;Q00610;Q9H1H9;P09496;Q9BXS5;Q8TAC9;Q96PC3;P56377}

5547 Pathogen[ P03363] interacts with 7 human partners:{O43747;Q00610;Q9BXS5;O15127;Q9H1H9;O43752;Q10567}

5548 [Cluster 505]GO:0005881+C cellular\_component [name] cytoplasmic microtubule [def]  
 "Any microtubule in the cytoplasm of a cell." [GOC

5549 Pathogen[ Q2Q067] interacts with 12 human partners:{Q6VN20;Q7Z460;Q8WWK9;Q9NYZ3;Q15532;Q9BSJ2;Q5JR59;O75122;Q9UPY8;O95996;Q15691;O15392}

5550 Pathogen[ P0C214] interacts with 13 human partners:{Q9BSJ2;O15056;Q15691;Q5JR59;O75122;Q15532;O15392;Q9UPY8;Q96G01;Q7Z460;Q9NYZ3;Q8WWK9;Q6VN20}

5551 Pathogen[ P03346] interacts with 16 human partners:{Q96G01;O15392;Q5JR59;Q15691;O15056;Q15532;Q6VN20;O95996;P30622;O75122;P36405;Q9NYZ3;Q8WWK9;Q9BSJ2;Q7Z460;Q9UPY8}

5552 Pathogen[ Q85601] interacts with 16 human partners:{Q15532;P36405;Q8WWK9;P30622;O15392;Q6VN20;O75122;Q9BSJ2;Q9NQC7;Q96G01;Q15691;Q9NYZ3;O95996;Q5JR59;Q7Z460;Q9UPY8}

5553 Pathogen[ P14079] interacts with 18 human partners:{Q15691;Q6VN20;Q9UPY8;Q15532;Q7Z460;Q9NYZ3;O15392;P68363;P36405;Q99661;O95996;Q9BSJ2;Q96G01;Q8WWK9;Q5JR59;O75122;Q9NQC7;P30622}

5554 Pathogen[ P03383] interacts with 8 human partners:{Q5JR59;Q7Z460;Q9BSJ2;Q15691;Q8WWK9;Q15532;Q9NYZ3;Q9UPY8}

5555 Pathogen[ P03410] interacts with 17 human partners:{Q7Z460;O15392;Q5JR59;P30622;Q8WWK9;P36405;Q9NYZ3;Q8TCX1;Q6VN20;Q15691;O95996;Q96G01;Q9UPY8;Q9BSJ2;P68363;Q15532;O75122}

5556 Pathogen[ P14075] interacts with 8 human

5557 Pathogen[ P0C206] interacts with 16 human partners:{Q15532;Q7Z460;Q5JR59;Q9UPY8;Q15691;Q8WWK9;Q9NYZ3;Q9BSJ2}

5558 Pathogen[ P03363] interacts with 14 human partners:{Q9UDT6;Q95996;Q8WWK9;Q15691;P68363;Q15532;Q5JR59;P30622;Q9UPY8;O15392;P36405;Q9NYZ3;Q7Z460;Q8WWK9;Q9BSJ2;Q96G01}

5559 [Cluster 506]GO:0030137+C cellular\_component [name] COPI-coated vesicle [def] "A vesicle with a coat formed of the COPI coat complex proteins. COPI-coated vesicles are found associated with Golgi membranes at steady state, are involved in Golgi to endoplasmic reticulum (retrograde) vesicle transport, and possibly also in intra-Golgi transport." [GOC

5560 Pathogen[ Q2Q067] interacts with 4 human partners:{O14579;Q6VY07;P53618;Q13367}

5561 Pathogen[ P0C214] interacts with 4 human partners:{O14579;Q13367;P53618;Q6VY07}

5562 Pathogen[ P03346] interacts with 6 human partners:{P53618;O14579;Q13367;P49755;Q6VY07;Q15363}

5563 Pathogen[ Q85601] interacts with 4 human partners:{Q13367;O14579;Q6VY07;P53618}

5564 Pathogen[ P14079] interacts with 5 human partners:{Q6VY07;Q15363;P49755;Q13367;O14579}

5565 Pathogen[ P03383] interacts with 4 human partners:{O14579;P53618;Q6VY07;Q13367}

5566 Pathogen[ P03410] interacts with 5 human partners:{O14579;Q15363;P53618;Q13367;Q6VY07}

5567 Pathogen[ P14075] interacts with 4 human partners:{P53618;Q6VY07;Q13367;O14579}

5568 Pathogen[ P0C206] interacts with 6 human partners:{O14579;P53618;P49755;Q6VY07;Q15363;Q13367}

5569 Pathogen[ P03363] interacts with 4 human partners:{Q13367;O14579;P53618;Q6VY07}

5570 [Cluster 507]GO:0031672+C cellular\_component [name] A band [def] "The dark-staining region of a sarcomere, in which myosin thick filaments are present\_ the center is traversed by the paler H zone, which in turn contains the M line." [ISBN

5571 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9UKX2;Q92831}

5572 Pathogen[ P0C214] interacts with 3 human partners:{Q9UKX2;P12882;Q92831}

5573 Pathogen[ P03346] interacts with 2 human partners:{Q92831;Q9UKX2}

5574 Pathogen[ Q85601] interacts with 3 human partners:{Q92831;Q9UKX2;P12882}

5575 Pathogen[ P14079] interacts with 1 human partners:{Q9UKX2}

5576 Pathogen[ P03383] interacts with 2 human partners:{Q92831;Q9UKX2}

5577 Pathogen[ P03410] interacts with 3 human partners:{Q92831;Q9UKX2;P12882}

5578 Pathogen[ P14075] interacts with 2 human partners:{Q92831;Q9UKX2}

5579 Pathogen[ P0C206] interacts with 3 human partners:{Q92831;P12882;Q9UKX2}

5580 Pathogen[ P03363] interacts with 2 human partners:{Q92831;Q9UKX2}

5581 [Cluster 508]GO:0005793+C cellular\_component [name] endoplasmic reticulum-Golgi intermediate compartment [def] "A complex system of membrane-bounded compartments located between endoplasmic reticulum (ER) and the Golgi complex, with a distinctive membrane protein composition\_ involved in ER-to-Golgi transport." [GOC

5582 Pathogen[ Q2Q067] interacts with 5 human partners:{P53990;Q5VYK3;Q08378;O75396;P53618}

5583 Pathogen[ P0C214] interacts with 9 human partners:{P53990;P53618;Q5VYK3;Q08378;P49257;O75396;Q92614;Q96EK6;P80303}

5584 Pathogen[ P03346] interacts with 14 human partners:{P80303;Q92614;P49257;Q14789;Q969X5;P53618;Q08378;O75396;Q5VYK3;Q96KG9;P49755;Q15363;Q9BVK6;P53990}

5585 Pathogen[ Q85601] interacts with 10 human partners:{Q5VYK3;Q92614;O75396;P80303;Q08378;P49257;P53990;Q96EK6;P53618;Q96KG9}

5586 Pathogen[ P14079] interacts with 22 human partners:{Q95070;Q14789;P49257;Q92614;Q8WVT3;Q9BVK6;Q08378;Q5VYK3;Q9NYU1;Q15363;O75396;P24390;P80303;Q9NYU2;Q969X5;P49755;Q969H8;Q8TF30;O15260;Q96EK6;P53990;Q96KG9}

5587 Pathogen[ P03383] interacts with 3 human partners:{P53618;P53990;Q5VYK3}

5588 Pathogen[ P03410] interacts with 23 human partners:{P80303;P49257;Q969X5;Q13445;Q92614;Q5VYK3;Q08378;Q96EK6;Q8TF30;P53990;Q9BVK6;O75396;Q96KG9;Q9NYU1;Q14789;Q15363;P53618;P24390;Q9UBY8;O15260;Q8WVT3;Q95070;Q9NYU2}

5589 Pathogen[ P14075] interacts with 5 human partners:{P53990;P53618;Q14789;Q96EK6;Q5VYK3}

5590 Pathogen[ P0C206] interacts with 19 human partners:{Q8TF30;Q14789;Q9BVK6;O75396;P53618;P80303;Q95070;P49755;Q96KG9;P53990;P24390;P49257;Q08378;Q92614;Q96EK6;Q5VYK3;O15260;Q969X5;Q15363}

5591 Pathogen[ P03363] interacts with 7 human partners:{Q14789;P53618;Q96KG9;Q08378;Q92614;Q5VYK3;P53990}

5592 [Cluster 509]GO:0000308+C cellular\_component [name] cytoplasmic cyclin-dependent protein kinase holoenzyme complex [def] "Cyclin-dependent protein kinase (CDK) complex found in the cytoplasm." [GOC

5593 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8ND76}

5594 Pathogen[ P0C214] interacts with 2 human partners:{Q8ND76;O94921}

5595 Pathogen[ P03346] interacts with 2 human partners:{Q8ND76;O94921}

5596 Pathogen[ Q85601] interacts with 2 human partners:{Q8ND76;O94921}

5597 Pathogen[ P14079] interacts with 1 human partners:{Q8ND76}

5598 Pathogen[ P03383] interacts with 2 human partners:{Q8ND76;O94921}

5599 Pathogen[ P03410] interacts with 1 human partners:{Q8ND76}

5600 Pathogen[ P14075] interacts with 2 human partners:{Q8ND76;O94921}

5601 Pathogen[ P0C206] interacts with 2 human partners:{Q8ND76;O94921}

5602 Pathogen[ P03363] interacts with 1 human partners:{Q8ND76}

5603 [Cluster 510]GO:0070044+C cellular\_component [name] synaptobrevin  
2-SNAP-25-syntaxin-1a complex [def] "A SNARE complex that contains synaptobrevin 2 (VAMP2), SNAP-25, and syntaxin 1a (or orthologs thereof)." [PMID

5604 Pathogen[ Q2Q067] interacts with 1 human partners:{P54920}

5605 Pathogen[ P0C214] interacts with 1 human partners:{P54920}

5606 Pathogen[ P03346] interacts with 2 human partners:{Q9H115;P54920}

5607 Pathogen[ Q85601] interacts with 1 human partners:{P54920}

5608 Pathogen[ P14079] interacts with 2 human partners:{Q9H115;P54920}

5609 Pathogen[ P03383] interacts with 1 human partners:{P54920}

5610 Pathogen[ P03410] interacts with 2 human partners:{Q9H115;P54920}

5611 Pathogen[ P14075] interacts with 1 human partners:{P54920}

5612 Pathogen[ P0C206] interacts with 1 human partners:{P54920}

5613 Pathogen[ P03363] interacts with 1 human partners:{P54920}

5614 [Cluster 511]GO:0030127+C cellular\_component [name] COPII vesicle coat [def] "One of two multimeric complexes that forms a membrane vesicle coat. COPII is best characterized in *S. cerevisiae*, where the subunits are called Sarlp, Sec13p, Sec31p, Sec23p, and Sec24p. Vesicles with COPII coats are found associated with endoplasmic reticulum (ER) membranes at steady state." [GOC

5615 Pathogen[ Q2Q067] interacts with 6 human partners:{Q15437;P53992;O95486;O94855;O95487;Q15436}

5616 Pathogen[ P0C214] interacts with 6 human partners:{P53992;Q15436;O95487;Q15437;O95486;O94855}

5617 Pathogen[ P03346] interacts with 6 human partners:{O94855;Q15436;Q15437;O95486;O95487;P53992}

5618 Pathogen[ Q85601] interacts with 6 human partners:{O95487;Q15436;Q15437;O95486;O94855;P53992}

5619 Pathogen[ P14079] interacts with 5 human partners:{Q3ZAQ7;O95487;O94855;P53992;O95486}

5620 Pathogen[ P03383] interacts with 6 human partners:{O95487;O95486;Q15436;Q15437;O94855;P53992}

5621 Pathogen[ P03410] interacts with 6 human partners:{O94855;P53992;Q15436;Q15437;O95486;O95487}

5622 Pathogen[ P14075] interacts with 6 human partners:{P53992;O95487;Q15437;Q15436;O94855;O95486}

5623 Pathogen[ P0C206] interacts with 6 human partners:{Q15437;O94855;O95486;O95487;P53992;Q15436}

5624 Pathogen[ P03363] interacts with 5 human partners:{Q15436;O95486;P53992;O95487;O94855}

5625 [Cluster 512]GO:0005622+C cellular\_component [name] intracellular [def] "The living contents of a cell\_ the matter contained within (but not including) the plasma membrane, usually taken to exclude large vacuoles and masses of secretory or ingested material. In eukaryotes it includes the nucleus and cytoplasm." [ISBN

5626 Pathogen[ Q2Q067] interacts with 797 human partners:{Q5JN25;E7ETH6;Q0D2J5;Q12901;Q9HC78;Q09FC8;Q9H4I2;Q01844;Q9UM63;O15014;Q96SQ5;Q9Y473;P61313;Q14526;Q9Y5K5;Q8WV37;Q8N859;P52742;Q9BRH9;Q9Y4R8;Q96N77;C9JN71;Q7RTT3;P17544;Q13118;P25490;Q96J02;Q03989;P62701;Q9UK13;P35789;Q6V9R5;Q8NA42;Q9Y6X8;Q8NHW5;Q9BTV5;P82921;O43167;Q2M218;Q9BYD6;Q9UJN7;Q03923;Q8WV44;Q9UEG4;Q9BUG6;A6NDX5;P47914;P82933;Q8NEM1;Q9UC06;O75155;P98182;Q9NRF9;P46779;Q9H7X3;Q9UPN9;Q9Y6D6;Q9UK11;P17029;P52738;Q9ULX6;A8MTY0;Q9H7R0;Q9PE6;Q8IZ26;Q9BRR0;A6NJL1;O43361;Q9HAU4;Q9Y462;P24385;Q96NI8;Q92922;Q6NUN9;Q9UII4;Q9UJL9;Q70YC5;O60304;P55265;P24278;P49790;P82912;Q8NEP9;Q59GN2;Q9H063;Q6ZQV5;Q9HBE1;Q63HK5;Q8N0Y2;Q92664;Q5VTD9;Q15928;Q96K75;Q13887;Q8TA94;O60784;Q8IZH2;P29374;P26373;Q86YE8;Q08AN1;Q9Y676;P49792;P58317;O75394;Q8WW38;Q6ZMY9;Q8N8Z8;Q9NXV6;Q96A35;P62750;Q6ZS27;A6NP11;Q9UL59;O15226;Q8N4W9;Q9H2P0;P10073;Q9HAZ2;Q9NPJ8;Q14690;O60481;P62273;Q13485;A6NGD5;Q5SXM1;O43734;Q6IV72;A8MVS1;Q8N2I2;Q6ECI4;Q9UC07;Q9H9D4;Q9Y2R9;Q6ZT77;Q9UHF7;Q9ULD5;P51508;Q14590;Q15386;Q13405;Q9NTW7;Q9Y2Y9;Q96NG8;Q96GC5;Q6ZN06;P41182;Q9Y2X9;P19474;Q9H5H4;P15880;Q9NUL3;Q8NBB4;Q96H40;P49910;Q9POM2;Q9NWU5;Q9NZV7;Q32MQ0;Q6P2D0;Q9HCL3;P46782;Q6U7Q0;Q9UKJ3;Q8TD23;Q9H0F6;Q96SK3;Q96IT1;Q147U1;Q15697;Q96LW1;Q9NZL3;P35268;Q7L2R6;P08151;Q99676;Q9NRR4;Q9UJY4;Q96SL8;P37275;O00273;Q8IWI8;Q05081;Q05516;Q05481;Q02930;Q8NCK3;Q8NDW4;O60543;O75820;P22090;P10074;Q7Z2E3;O60315;Q9UJY5;P46778;Q9P0L1;Q9ULV3;Q14119;Q9H4Z2;Q6P9A1;Q96PQ6;Q8N782;Q96NL3;P26641;Q8WTR7;Q9NYJ8;P08238;Q8TAW3;P51815;P14373;Q9UJY1;O00712;Q8TF20;Q9UBU9;Q6ZR52;Q99684;P52741;Q9UDV7;P62888;Q53FT3;Q8TF68;Q3KQV3;Q92990;Q9P255;Q8IZP0;P32969;Q8NC26;O95999;O43296;Q9H4T2;P61970;P62277;O14709;C9JBD0;Q08ER8;Q5T5D7;P07900;Q9NQX1;Q15633;Q6ZMW2;Q9UNA4;Q4LE39;P62241;Q2M3W8;O15535;Q9POM9;Q7RTT5;O14628;Q8TBC5;Q15025;P62244;P05387;Q6ZS03;Q02447;P52653;Q99909;Q86YF9;Q9NSV2;Q2M1K9;P62861;P42766;P17030;P17031;Q7Z34O;Q86UE3;P04792;O75362;Q16670;Q96N95;Q9Y5A6;Q8TF47;P05386;P17036;Q9ULJ3;P17040;Q2QGD7;P17010;O95625;P17038;Q9P0J6;Q9UK12;P08047;Q8TC21;Q96C28;P30304;Q7RTT6;Q15022;O43829;P16415;Q86Y25;P0CG00;Q969Q0;O95793;Q7Z6Z7;Q8N184;Q96NJ6;Q9UNX3;Q504Q3;Q8WYQ5;Q13129;Q9H7S9;Q7Z3V5;Q3SXZ3;O94906;Q9UFB7;Q6IQ21;Q13398;Q53GI3;Q96MR9;Q14134;Q96BV0;A8MT65;A6NK53;Q14669;P11166;Q9BUY5;B2RXF5;P23528;Q8N3J9;Q9Y2P0;Q9Y3D3;Q9Y2H8;Q96AQ7;P52743;Q9Y2R5;Q499Z4;Q12996;P18077;Q15937;P62891;P27695;Q9GZR2;Q9UHK0;Q68EA5;P11142;O75381;O43823;Q8N5C8;Q9BQ48;Q9UJX2;Q68DY1;Q5TB30;Q7RTV3;P27797;Q9HCG1;P61927;Q6P280;O95678;Q9Y39

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5627

Pathogen[ P0C214] interacts with 920 human

partners: {P62861;Q86UD4;Q05086;A6NDX5;Q6ZNS5;P60520;Q5BKZ1;Q6NX49;Q6PDB4;Q12996;P84098;Q92618;Q06732;Q96A35;Q8NEK5;Q9NQZ8;Q14526;P61247;P49406;O15198;Q96J02;Q8NI51;Q03989;Q6IQ32;Q7Z3K3;Q96C28;Q9Y399;Q8NHW5;Q96MU6;Q9P255;Q9UKN5;Q96RE9;Q8N1G1;Q13405;Q969S3;Q9Y3D5;Q7Z2F6;A8MUV8;O43296;Q8WV28;Q9BYD2;Q8TBZ8;Q8IZC7;O75467;Q9HCS7;Q6ZN11;Q96LW9;Q9UID6;P27695;P05937;Q6ZNA1;Q9H9J2;P63000;Q9P0T4;P35789;Q8NDQ6;Q13887;P15880;P17032;P62081;P42766;Q14593;Q15697;A6NGD5;A8MVS1;Q9HCZ1;P30307;P19474;Q02930;P56270;P62913;O43829;Q9HAU4;Q15022;P22090;Q9NPP4;P51508;Q7Z398;O75528;A8MQ14;Q8IZP0;P52743;P35637;Q13952;Q9Y6K9;Q17R26;P82912;Q92901;P62249;Q9P0L1;P17010;Q63HK3;Q9ULD5;A8K8V0;Q9UHF7;Q8WV44;P62899;O43830;Q9BS34;Q9Y2A4;Q14865;P0CI00;Q14872;Q8N7Q3;Q13490;Q8IYN0;Q14929;Q96KR1;P28838;P17023;Q9BX82;P62854;Q9Y2D9;Q14591;Q9Y5A6;P39019;Q6ZNS5;P62263;P51814;Q5T5D7;Q05481;P82675;A6NHJ4;Q96SQ5;Q92664;P0CB33;P41227;Q9UL59;P52744;Q6ZNH5;O14497;P0C6E6;Q9H0U6;P02533;Q5JVG8;Q8IYW8;Q8NC26;Q9UJY5;P15336;Q9Y473;Q96LW1;A6NP11;Q16540;Q96I27;O15535;Q8TD17;Q6PG37;Q9NTW7;Q8TF45;Q9Y676;O75820;Q9BWM5;Q8TAQ5;Q9Y281;P52742;Q5TB30;P01011;O60543;P62273;Q14587;Q9NPC7;Q86UE3;Q9UIH9;P23396;P18077;Q8TBC5;P25208;Q00987;O15235;Q9GZU2;Q8NDP4;Q96CX3;Q96NJ3;P52738;P05388;Q5JVG2;P0CG31;Q96K62;P62847;Q96BR6;Q9HBE1;Q8NCA9;Q96GC5;Q7L2R6;O76021;Q8TD23;Q9P2F9;Q9C035;Q8N587;Q99856;Q8TAU3;Q14119;Q03112;Q9UJN7;P17019;Q13015;Q8NOY2;Q8IVP9;Q9UC06;C9JN71;Q504Q3;P26373;Q68DY1;Q5MCW4;Q16384;Q99676;Q8NCK3;Q92560;P55265;O95678;Q8N823;Q9UNY5;Q8NEP9;Q08AN1;P17022;P27635;O75362;Q9NUA8;Q9H6B1;O60224;P46778;Q9P0M2;Q16587;Q7Z7K2;Q969W8;Q499Z4;Q6P5R6;P61586;Q96GE5;O95625;Q86XU0;Q5JNZ5;Q8TF20;O43167;P04792;Q6P9A1;P84022;Q9NWU5;O75437;Q12906;Q6PK81;Q6P1L6;Q9UL58;Q96EH5;O95125;Q5TYW1;Q15428;Q86PF04;Q86WZ6;Q9UK11;Q86YE8;Q9NR11;Q96CS4;O14709;P17029;P17544;Q9Y2Y9;Q96SR6;Q5JUW0;Q8NAP3;Q9UK13;P61513;Q9UL40;Q9H0F6;P17026;Q96MN9;Q96SK3;Q9NW07;Q7Z2W9;Q5HY98;Q2M1K9;Q63HK5;O75123;P83881;Q2M3W8;Q9UHK0;P60953;Q02386;O75394;Q15973;Q3MJ62;P37275;Q3KP31;Q8NI08;Q8N8C0;Q9NPP8;Q15928;P49792;O75381;Q9UPG8;Q96K58;Q9BYX4;A8MT65;Q5T653;Q96JC4;P62701;Q71UM5;P49207;P98168;Q7Z3I7;P63220;Q8IZ26;Q8N9F8;P17024;Q9Y2Q1;Q6ZR52;P26641;O14771;Q12901;Q96NG5;Q96N77;P24385;Q96SE7;Q9UQN3;P08865;Q6ZMS7;P32969;Q6ZN19;P62266;P17038;Q9UJX2;Q9UC07;Q494X3;Q14938;Q96MR9;Q9Y2P0;Q96K75;P09001;Q9UII5;O00308;Q4V348;Q96SZ4;Q9H063;Q6IV72;Q8N141;P51786;Q9BY31;Q969Q0;Q01844;Q96BV0;A6NEJ1;Q5SVQ8;Q8N883;Q5T447;Q8N6I1;Q3SXZ3;Q9GZX5;P82664;Q9NXT0;P51523;P82914;Q9H4I2;Q147U1;Q9BSK1;P24278;P17031;P15170;Q9HCX3;Q16385;P62277;O94906;Q9H0M0;Q9Y3Z3;Q5VTD9;Q13398;Q53GI3;Q9HBT8;Q99909;P50914;O60290;P11166;P17030;Q03936;Q96NL3;Q8TF68;Q9UKJ3;Q9BYK8;Q9Y5K5;Q7RTT4;Q86XN6;Q53FT3;Q9HCE7;Q8IZH2;Q7RTT5;P46779;Q8N5C8;Q8N3C0;O95201;Q8TC21;P28698;Q15633;Q9NWS9;Q92922;Q9BWU0;P15622;Q6ECI4;Q6ZSS3;Q9BRR0;Q59GN2;Q6ZNO8;Q8N859;Q13129;Q9HC78;B1APH4;Q9UL36;O00273;Q9ULJ3;Q9P0J6;P98170;O43734;Q9Y6R6;Q49AA0;Q60870;P47914;Q8TAT6;O00712;P49790;Q9Y2340;Q6ZNG1;P18583;P63173;Q96IT1;O60765;Q06730;Q9UJU3;Q8N184;Q86Y25;B4DXR9;O75373;Q7Z3H8;Q15929;P43897;Q8N4W9;Q9BQ48;A8MXY4;Q9UJY4;O95071;Q96PE6;Q3ZCX4;Q68DI1;O60225;Q8N488;Q9H5H4;Q6P280;Q5VUA4;Q16600;P17014;Q8N9K5;P82921;Q8NF99;P62280;Q9UHD4;Q9UJW7;Q8TBZ5;Q49A33;P09104;Q8N2I2;O75290;Q9UNX3;Q96JF6;

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5628 Pathogen { P03346 } interacts with h121 human partners { Q86UQ0;E7ETH6;Q96T92;Q5F1R6;A6NK53;Q5JU85;O15014;Q7Z3K3;Q3KNS6;O75382;Q96NG5;Q5JVG2;Q96A35;Q9Y3Z3;Q969S3;Q13886;O15265;P08048;Q9BZE0;Q5JUW0;Q12901;Q05481;O95201;Q9NWS9;Q9UPN9;Q9Y6K9;Q96J02;Q7Z398;Q8NI51;O76021;Q03989;Q9NVS2;P05387;Q9Y399;Q9UKS7;Q96N20;Q8NHW5;Q9Y467;P17097;Q9H0H0;P46779;Q12874;Q96LW1;P57071;Q5T5D7;Q7Z7K2;Q9HBT8;Q9UHF7;Q13263;Q494X3;A8MXY4;Q9NQX6;Q504Q3;Q9NR83;P98182;Q15438;Q8TF39;Q9P0M2;Q02386;Q9NQX1;Q8N4W9;P49910;P63173;Q3MJ62;Q5JNZ5;Q9Y281;O94892;P62917;A6NGD5;O75394;O15535;Q8IZM8;Q92560;P62249;Q9NPA5;P62913;Q9HAU4;Q9NQV7;A2RRD8;Q6P1L6;P0CG31;Q9HAH1;P49406;Q08AN1;Q9H8N7;Q96NJ6;O95625;Q49A33;Q9BRR0;C9JN71;Q6ZRF7;Q96C55;P24385;Q7Z340;Q5T1R4;Q96MR9;Q9P0J6;Q8WV37;Q9NZV7;P62861;P82912;Q96C00;P07900;Q15928;Q7RTS1;P62277;Q02878;Q9BWM5;Q96PU5;Q14591;Q96612;P29374;Q9BUY5;Q9UEG4;P60006;P36508;Q9Y2P0;A6NN14;Q8NCA9;P14373;Q52M93;Q9H116;Q7RTS3;P49247;Q32MQ0;Q8NAF0;Q3KNN1;Q8IVW6;Q15916;Q9ULDS;Q96KR1;Q9GZR2;O15392;O60765;Q9BV97;P82933;P98171;Q96NS5;Q8IZC7;Q9UKD2;Q9UQR1;P56270;P17039;Q2QGD7;O75362;Q8IX06;Q9Y2P7;Q8NAP8;Q5HYK9;Q9UL59;Q9H0M5;P55265;O43167;Q16384;Q9Y4X4;P17098;Q86V71;O14901;Q8NCC26;Q96NJ3;Q59GN2;Q13489;P15336;Q96HQ0;Q9NU63;Q9H9L3;Q13129;Q9H8W5;Q2M218;P62280;P39023;P52739;O15209;Q9UGR2;P0CJ78;Q8N141;Q7Z3V5;Q9H2P0;Q6ZT77;Q9UL58;Q8NKN2;Q8N8W3;Q8WW38;Q6ZQV5;P52747;Q9Y2L8;Q3KQV3;O43296;Q9BXA9;Q9HXA9;Q8TAQ5;Q9Y5W3;Q96K75;O43309;P61927;Q5FWF6;Q9ULM2;Q6ZSB9;Q9UNX3;Q7Z3I7;Q9UKT9;Q9P0T4;Q12857;Q06732;Q96H40;Q8NFD5;Q92990;O95714;Q8N7M2;O75123;Q96IQ9;Q14590;P0CH99;Q96K62;P62857;Q9NW07;Q6V9R5;P35789;P52740;Q9NR11;P60520;Q9BYM8;Q8TD23;Q9H0U6;Q08AG5;Q8IZP0;Q969W8;Q9NZM5;Q15797;Q96SZ4;Q96MU6;O60315;O43734;O60290;P17027;Q5MCW4;Q9UNA4;Q9NZL9;P51786;Q03936;Q96JG9;Q15911;O75159;Q2M1K9;Q86T29;A8MUV8;Q147U1;Q8TD17;Q14587;P52738;Q9NQV6;Q8TF45;P0CB33;Q9UJQ4;P42575;Q8N680;Q9NS39;A8MVS1;P24278;P43243;P46778;Q96KM6;Q8NEP9;Q14872;Q8NE65;P49207;Q5VIY5;P25490;Q5H9K5;Q96FS4;O14978;Q15633;Q6P5R6;Q6P280;Q9NSC2;Q5T0B9;P30304;O43313;Q8N393;P25208;Q96I27;Q8TF20;Q9Y6D5;Q8NF99;P52741;Q9C0A1;Q86YE8;Q6ZMY9;P62266;O75820;Q8WXX3;Q15796;Q86WZ6;Q9UII4;Q8IZ20;Q9BWT7;Q9UK11;O43298;O14709;Q6NX45;O95678;O00712;O75335;Q3SY52;P26641;Q9UJY1;P17026;Q99856;P17022;P61254;Q9BQ48;Q8TBC5;Q5HY98;Q68DI1;Q12802;Q86UE3;Q71UM5;Q9H9D4;P98170;Q3MIS6;Q8N9K5;Q8N895;P52737;Q12906;Q7L3S4;P28698;Q6ZMS7;Q9ULJ3;P11142;P18583;Q96CS4;Q9POL1;Q9NUL3;Q9C035;Q63HK5;Q5TB30;Q5T653;Q17R26;P60953;P52742;Q9UDV7;Q9C0D4;Q8WTR7;P15622;Q8NDQ6;Q9P2Y4;Q9HCK0;Q8IVC4;Q8TA94;Q9C0F3;Q6PG37;Q9NX65;Q9NYH9;Q8TF32;A8MQ14;Q86UD4;Q96SE7;Q9HCG1;P58304;P21673;P52773;Q15386;Q9P2F9;Q8TAF7;Q99717;P0C7X2;Q6XZF7;Q9Y3M9;Q96BR9;P17038;Q9BYD2;Q9H4Q3;A6NK75;Q9H609;Q96N38;O15105;O75626;Q9NTW7;P60866;Q14586;Q7RTT6;Q96AQ7;Q08211;P0CW22;P17014;Q92670;Q8N587;P10074;Q9UM63;P62899;Q9H0F6;P0CI00;Q8NB42;O60224;Q9NV72;Q969Q0;Q86VK4;Q3SXZ3;O00192;Q9NR33;A6NEJ1;Q15652;Q96BV0;Q9H165;P05937;Q96VFC8;Q8N859;Q70YC5;P52743;O15090;Q9HCS7;Q8NBB4;Q03923;Q9NRF9;Q8NCP5;Q9BYC9;Q9UJW8;Q86V15;Q9BY31;Q9NUA8;P17032;O94906;Q8N2I2;Q13398;Q66K89;Q53GI3;P35268;Q8N554;Q5T447;A6NJL1;P17025;O60784;P15621;P17010;O43345;Q6P9A1;P59817;A8MT65;Q9HCX3;Q6EKJ0;Q9NYW8;Q9NXV6;Q13351;Q00987;P0CG40;O15198;Q0VGE8;P30305

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5629

Pathogen[ Q85601] interacts with 935 human

partners: {Q9UQR1;Q9HCZ1;Q8N8C0;Q9UJX2;Q9ULM2;Q9HCG1;Q9UBZ4;P32969;Q3KNS6;Q92618;P18146;A4D1E1;Q494X3;O75373;Q8N1G0;P08048;O95625;Q6NX45;O15198;Q9UPN9;P61513;Q96J02;Q8NI51;Q03989;O60225;Q8NHW5;P17097;P51786;Q969J2;Q8N9K5;Q32M78;P28698;Q8IZC7;Q92664;P15621;Q63HK3;P26373;Q96JM3;P0CG00;P51815;Q9UHF7;P62857;P52815;Q6ZR52;Q9NQX6;Q9HCS7;P08151;Q9Y4R8;P62244;Q86W11;P09001;Q8NA42;Q14929;Q4LE39;Q8TF39;Q9HBT8;Q9UPG8;O60481;Q14593;P62913;P17040;Q6ZLN11;Q2VY69;Q53FT3;Q3MJ62;Q8N8720;Q86XU0;Q96SZ4;Q9UNY5;P25208;Q14586;O15535;Q9NPA5;Q9UJW8;Q9HAU4;Q8NBB4;Q9NJV7;Q96JB3;A6NHJ4;Q9ULJ3;Q13127;P14373;Q9H707;P62854;Q2M3X9;O75528;Q96MX3;Q6V9R5;Q5EBL2;C9JN71;Q86VP1;P02533;P24385;Q13490;Q7Z340;Q8WV37;P82912;Q9UQN3;Q96SR6;Q5JNZ3;P62081;Q96ND8;Q6PG37;Q96K62;Q6P5R6;P61353;Q96A35;Q5TYW1;A6NFI3;P62891;Q9UC07;P46776;Q96CS4;P17028;P51522;Q8N7M2;Q969W8;Q9NUA8;Q8TDD2;A6NKF7;P36405;P0CB33;Q9ULD5;P21506;Q8WV44;P82933;P18077;Q12901;P56270;Q9NYJ8;Q9H8G1;Q3SXZ3;Q9UJY4;P61313;Q9UL59;Q9Y2R5;Q9Y3D5;Q7L945;O15265;Q9C0G0;Q16384;P49406;P05388;P17019;Q96NG8;Q5HY98;Q9UL33;Q6P1L6;Q8N8L2;Q6ZN57;Q96BR6;Q6ZMS7;Q96HQ0;Q96JM2;P17661;A6NKH3;P13682;P08651;Q9UGR2;Q86V15;Q96JF6;P17032;Q6PF04;Q9UL58;P17036;Q6DD87;Q9HCL3;O15151;Q9Y2L8;O95251;Q8WW38;Q8TAQ5;Q02386;Q86YB8;Q9H0W8;Q9BYN7;Q8NAP3;Q9HBT7;Q9UBU9;Q5FWF6;Q32MQ0;Q12857;Q8IYNO;O95714;Q7Z398;P17020;Q96BV0;Q13360;P63173;Q9H7S9;B4DXR9;O43541;Q96LX8;B1APH4;O60290;Q8TD23;Q8N8J6;Q9H0U6;A8MWA4;Q9BR84;Q6ZNG0;Q9Y2Y9;Q14966;Q15797;P15622;Q96H40;Q2M3W8;P82921;O60315;Q14587;A2RRD8;Q8NHY6;P17027;A8MUV8;Q9NR11;Q03936;Q08AG5;Q9H116;Q2M1K9;Q92560;Q6ZLN79;Q9NWS9;Q8N680;P23396;Q7RRT3;P15822;P62273;A8MVS1;P46778;Q1

4872;Q8NDW4;Q9UKN5;Q6NSZ9;Q9UDV6;Q13129;O14978;Q03112;P60006;P17030;P62753;O95793;Q9H0R8;P52740;Q96KM6;Q6ZMY9;Q8TF20;Q9BUG6;P27635;Q9Y2Y4;Q9NR83;O15015;Q9H609;O75437;Q13106;Q9Y2X9;Q86WZ6;Q6NUN9;Q9UJW7;Q9BS31;B4DU55;Q8IVP9;O14709;O95678;P63000;Q96SQ5;Q6ZNG1;Q3KP31;Q09FC8;Q9BYC9;Q86V71;P01011;Q52M93;Q96H86;P15880;P17026;P17022;Q9H4D5;Q9BQ48;Q92610;Q9P0M9;Q8TAW3;Q96KR1;Q9H0M5;P52744;Q2M218;O60936;P83881;P25490;Q8IZ26;Q907020;P98170;Q6ZN55;Q8N895;Q9NRR4;Q9BX82;Q6NG5;P0C7X2;Q9Y2G2;Q9NPF8;Q8NF99;Q9Y2L7;P37019;Q2QGD7;Q8NDP4;Q86XN6;P26641;Q14588;Q9UII5;Q7Z2F6;Q5TB30;Q5T653;Q9H4T2;Q96JC4;Q9Y3U8;Q96PU5;Q71UM5;Q8TBZ8;Q14592;A6NK53;P61970;Q9NQZ8;O14497;Q14591;Q14669;P58317;P62701;Q9C0F3;O15392;P62241;P82675;Q8TF32;P27797;Q15776;A8MQ14;O15226;Q3MIS6;Q3KQV3;O75290;Q96SE7;B4DX44;P21673;P30304;Q15386;Q9P2F9;Q9Y3M9;P17038;Q9P255;Q14690;A6NM28;Q6PK81;Q6ZNO6;O76075;P17031;Q96AQ7;Q8LWY8;P17014;Q96MU6;Q5T1R4;Q9BYD2;O15164;P10074;Q9UHD4;P62899;Q9H0F6;Q8NEP9;Q9NV72;Q49A33;Q9UJN7;Q9UFF9;A6NEJ1;Q9HAH1;Q16385;Q08AN1;Q9NZV7;Q03923;P52736;Q8N823;P17024;P17017;Q08211;O94906;O60304;Q9UJY5;Q9Y2D9;P59923;Q8N2I2;P49247;Q13398;Q53GI3;Q9UK11;Q86UD4;P17010;P49711;Q9UID6;O43345;Q9UIH9;Q8TAF7;Q13952;Q8N184;Q9BUY5;Q8TF47;Q9UJL9;Q504Q3;Q8IYI8;Q9NYW8;A8MXY4;P62263;P62861;O95125;Q02878;Q9BYD6;Q66K41;Q499Z4;Q9H7R0;P08047;Q9NRF9;P27986;Q9HC78;Q8IZH2;Q8N9F8;Q6IQ21;Q8N5C8;Q01954;O95201;P39023;Q5VIY5;P61254;Q9BWU0;Q16587;O75155;Q9Y2R9;Q15022;Q05481;Q8N6I1;Q13263;Q68DI1;P52746;O15060;Q13405;Q14526;Q6IQ32;O75820;Q8NEA6;Q3ZCX4;Q9Y6R6;Q8TF50;P0CJ79;Q9GZX5;P30305;O43361;Q9NW07;Q8WYQ5;Q9H4I2;O60870;P36508;Q9Y3D3;Q8TC21;P49207;Q7Z3K3;P35637;Q9UK12;Q9NX65;Q8NDQ6;P51508;Q96GC5;Q9UK13;Q6ZNO8;P62910;Q9GZU2;Q8NBF1;Q9Y6K9;Q969S3;Q8N1W2;Q9NXX2;Q9NQX1;O15235;A6NGD5;P41227;P30307;P62249;A6NJL1;P62280;Q8NEK5;Q8N4W9;Q92785;Q96N38;Q8N587;P52742;Q02930;Q16600;Q9Y5A6;Q9P0T4;Q9H7R5;P15170;Q9UKK6;P11166;Q5JUW0;P17098;Q96MN9;P47914;Q9P0L1;Q8NB42;P84098;Q96L21;Q9UL36;Q15928;O14641;Q9ULX6;Q96MR9;Q6P9A3;Q5MCW4;Q96N20;P08708;Q9UKJ3;P0CH99;Q9BRR0;Q9UM63;P16415;O60543;Q9H7X3;Q96N22;Q12906;Q9Y2G7;Q9UL40;Q9UDV7;Q03924;Q9Y2A4;Q96CX3;Q8N859;P42575;Q15973;O60765;Q9UPQ4;Q99717;Q9UKD2;Q92804;Q9P2J8;O95780;P52738;Q14708;Q14701;O75394;Q9NZL3;P42766;Q9NZE8;P98169;Q9H8N7;Q96T92;Q08ER8;O15014;Q5SVQ8;P11142;Q9H6B1;Q96N58;E7ETH6;Q9NVS2;Q8NFD5;O60447;P62269;Q9NXT0;P08238;P0DI81;Q17R26;Q8IYM9;Q15025;Q7Z3V5;Q5JVG2;Q5T5D7;Q6P3V2;Q8N7Q3;Q96NJ6;Q8IYX0;Q14585;Q9HA38;Q9Y6X8;Q0VGE8;Q9Y5K5;Q96LW1;O14771;Q96GC6;Q86XF7;Q6ZT77;Q96N95;O75346;Q9BYX4;O60281;O00273;P17029;Q9H2P0;Q99909;Q9NWU5;Q9Y281;A6NPF11;Q15929;Q8NEM1;P35789;Q6ZNA1;P18621;Q8IX07;Q9Y676;Q14590;P05387;Q6U7Q0;Q9BYK8;A6NKF2;Q9UC06;Q99612;Q9H5H4;Q8N883;Q6ZRF7;Q9Y462;Q8NCA9;Q7Z7K2;Q14865;Q9UNX3;Q01658;P17023;Q96NI8;Q96F45;O43829;Q9H063;P0CI00;Q8TD17;Q9GZR2;Q96SK3;P62277;P61586;Q3SY52;Q4V348;Q96NJ3;C9JBD0;Q13015;O43830;Q8TA94;O60293;Q86T29;Q13118;Q8N9Z0;P58304;Q3ZCT1;Q5HYK9;P07900;P35268;Q96EG3;Q15633;Q9UCV3;Q9UHK0;Q02447;Q8NE65;Q96N77;Q68EA5;P43897;Q99684;P62979;P55265;O43309;P62847;Q9C0C5;Q8TF68;O75382;P17544;Q9NUL3;Q05516;Q6ZS27;Q9NTW7;Q9H9L3;Q7L2R6;P0DI82;P51504;Q9BQA5;P84022;Q6ZN19;Q9P0M2;Q0D2J5;Q6ZSS3;P60520;P42677;Q7RTT5;P63220;Q14584;Q96EH5;Q8TF45;P10072;Q6ZQV5;Q8TB69;Q96RE9;O43296;Q15937;Q49AA0;Q8N782;P0C7V5;Q6ZSB9;P37275;O95218;Q9NZM5;Q9UK10;Q8IYB9;Q86TJ5;Q5EBM4;P60953;Q9NPC7;Q9BTV5;Q9Y2H8;Q5VTD9;A8MT65;P18583;P52737;Q8N8Z8;Q9Y2P0;Q9NR09;P46782;Q6P9G9;Q7Z6Z7;Q8IW36;Q9BRH9;Q06732;P04792;Q7Z2E3;Q9Y6D6;O60783;O15105;Q6ZMW2;A6NDX5;P46779;Q9BSK1;P0CG31;Q8N972;Q7RTT6;O94892;Q7L3S4;P62750;O43823;Q92670;P46013;O14893;Q96C00;A8MTY0;Q05086;Q9UFB7;Q66K89;Q6ECI4;Q5T619;Q9UKY1;O75362;O75626;P49792;Q96NL3;Q96JL9;Q96IT1;Q96SL8;Q9Y473;Q9P243;O94903;Q8N850;A6NNF4;P17025;P23528;Q6P280;Q8NCN2;P24278;Q7Z3I7;P22090;O60224;Q9NSC2;Q86UQ0;O95999;Q96C28;O00712;P43268;Q15652;P15336;P51814;Q8N3J9;P41182;A8NUZ8;P57018;Q9N71;P19474;Q5CZA5;Q14119;Q8IZP0;Q9UJU3;Q9Y2P7;Q8N488;P82664;O60869;O75467;Q9Y6Q3;Q5BKZ1;P51523;P61927;Q5SXM1;Q6PDB4;Q8N8E2;Q6AZW8;O95071;Q8IY57;O75381;Q76KX8;Q9H9J2;A6NN14;Q6IV72;P05386;Q9NZ52;Q63HK5;Q68DY9;Q9H963;Q7Z7L9;A8K8V0;Q8N141;Q9UIE0;Q5VUA4;Q6ZMV8;Q96I27;Q00987;Q92922;Q8NCK3;Q9BS34;P82914;Q96CA5;Q8TBZ5;Q9BSG1;Q15935;O75123;O76021;P0C7X5;B2RFX5;Q9BV97;P08865;Q6AW86;O14628;Q9Y399;P0CG24;Q13485;Q8N0Y2;P61247;Q96PQ6;Q9NSJ1;Q9UNH7;Q8WTR7;Q86UE3;Q9BSN8;Q8WXB4;Q06730;Q7RTV3;Q8TBC5;Q9BY31;Q9UNA4;P27695;Q8NC26;Q8TAT6;Q6NX49;P11161;Q9P0J6;Q5TEC3;Q86Y25;O43167;Q99676;Q9NU63;Q9UEG4;Q96PE6;P49790;Q6ZN30;Q9BWM5;Q5JNZ5;P52743;Q96K75;Q15072;P46777;Q13105;P52747;Q9UJY1;Q13887;Q9UKT9;Q96PM9;P17035;Q9NXV6;P62917;Q8TAU3;Q9NSD4;Q92901;O60784;Q14938;Q5JVG8;Q01844;P98182;Q9ULD9;Q99856;P78560;P46781;P25398;Q8N7K0;Q86YF9;P60866;P17039;Q12874;Q6P280;Q8N393;Q9HCX3;Q6ZNH5;Q6P9A1;Q15796;Q8NI08;Q86UP8;Q96LW9;Q9HCM9;Q9ULV3;P62906;Q16670;P10073;P50914;Q9Y2Q1;Q68DY1;P49910;P62266;Q8N988;Q9NYT6;O75081;Q9HBE1;P52741;O75674;Q96IR2;Q8N3C0;P17021;P98168;P0CJ78;P62888;P41208;Q96GE5;Q5F1R6;Q9HAZ2;Q9H9D4;Q96K58;Q03938;P17041}

5630

Pathogen[ P14079] interacts with 1061 human

partners: {Q969J2;Q15916;P28838;Q9BWM5;Q9BXW6;P98168;P59894;O60225;Q8IYX0;Q8NHY6;Q9Y3U8;Q9NV72;P27635;Q92664;Q14585;Q6AW86;P15622;P52738;Q96C00;Q13952;Q9UJN7;P52815;P84098;P46779;Q9UQR1;Q0D2J5;Q96CS4;Q9UK12;Q9BXU3;A6NKH3;Q13492;Q9BYD6;Q9NSD4;Q32MQ0;Q7Z2T5;Q9HBT8;P52741;Q8IZC7;Q9BXL7;Q9NQX1;P05937;Q3SY52;Q8IV48;P51504;Q8N9Z0;Q8N895;P17098;P08151;O15164;Q75123;Q9HAZ2;O75467;Q68DY9;Q9UL40;Q9H7R0;Q06730;P26373;Q53GI3;O75346;Q9UNH7;Q9ULD9;Q9GZU0;Q9HBT7;Q9UL33;Q8TAT5;Q9Y3B8;Q96JB3;Q5MCW4;A8MTY0;P52742;Q8TD23;Q5HYK9;Q96IR2;O76075;P61970;P41227;Q6ZXF7;Q9UPP2;Q8WTR7;Q9UL36;A6NEJ1;Q8N8L2;P0CG31;P23396;Q5T1R4;O60293;Q8N5C8;P11142;Q6ZVM7;A8K8V0;Q9BYK8;Q9BTV5;Q9UDV6;Q8WXB4;Q9Y2Y4;P14373;Q8N123;Q9UC06;Q9Y2G7;O95125;Q7Z340;Q9UK13;Q8NDQ6;O95793;Q8NDP4;Q9UNA4;Q8IZ21;Q9BYX4;P0C7V5;Q86V15;P10072;Q8N141;O94906;Q96K62;Q9UJW7;P30307;Q96H86;P21506;Q9UNQV6;Q13106;Q7Z7K2;Q9UJY4;O14771;Q9Y6Q3;C9JBD0;Q8TF50;Q96MU6;P10073;Q96DX7;Q7Z7L9;P35637;Q9ULV3;Q9UNY5;Q9NZM5;A6NK53;Q9UL59;Q8N587;Q6ZNA1;O15553;Q8N9F8;O75437;P52747;Q9C035;Q15776;Q6ZNG9;Q13118;O75528;Q86UQ0;Q6ZNG0;P08048;P17019;O95999;Q6ZMY9;Q9UKF7;P18621;O60481;Q3ZCX4;Q6ZT77;O15535;Q9UPR6;Q9GZU2;O14893;Q9HCG1;P17035;Q9Y2P0;Q9H0W6;P83881;O75626;Q9Y2Y9;Q6P9G9;Q8TA94;O43309;Q14938;Q9H4D5;Q15911;O75362;P17010;Q9Y2Q1;Q9H0W8;P0CB33;A1A519;Q9BR84;Q9BWU0;Q9NUJ7;Q8N782;Q9NUA8;Q9ULX6;Q9UNX3;P82664;P46781;Q9UJY5;Q9UFB7



;Q7RTT3;P17022;P05408;Q9H0M5;Q3KP31;P17041;O60290;Q8N393;P61513;Q5TEC3;P62847;Q5T0B9;O60543;Q99676;Q9NRG0;A8MT65;Q8NCP5;Q08AN1;O14641;Q8NB42;P62753;Q9NPJ8;P82933;Q2QGD7;P98171;Q32M78;Q6PDB4;Q9BQ48;P17039;Q9H1K0;Q5EBM4;Q9P0M2;Q92804;Q9UBZ4;P0CH99;Q6NUN9;P51522;Q9ULM2;Q5JVG8;A6NHJ4;P26641;P39023;Q12874;Q9H0Y0;P62273;Q9NTW7;O75290;O43823;Q9P2Y4;P52746;Q6ZN57;Q9Y2R9;Q9BYD2;Q13129;Q9BYC9;Q63HK3;Q7Z3K3;Q6ZR52;P25398;Q9Y6D5;Q8NDH3;O15198;Q8NEK5;P04080;Q12906;Q8IYB9;Q9H707;Q96SR6;Q96PM9;Q9C000;P52737;P35789;P51815;Q86VZ6;Q14591;Q92922;Q70YC5;Q6ZRF7;Q8TBZ8;O95251;Q96EP0;Q8NCA9;A8MUW8;P17024;Q9P255;Q14592;Q9GZX5;Q3MJ62;Q9NSJ1;Q96NG8;Q9NXV6;Q6ZN79;P49247;Q14865;Q99684;O15392;Q92610;Q96N20;Q9NRX2;P18077;Q9UID6;Q68DI1;Q9UJK9;Q8NOY2;Q8N720;Q14966;Q9H7X3;P58304;Q96SE7;Q5VIY5;O43167;Q05516;Q4LE39;Q16540;P0CG23;Q8NI08;Q9UBU9;Q9Y5A6;O75674;Q9GZR2;Q99856;Q76KX8;Q8IZP0;Q9BWE0;P61254;Q02447;Q8N317;Q13105;P50914;Q5T5D7;Q3MIS6;Q9BYN7;Q96G61;Q7Z2W9;Q8NC26;Q92785;A1A5B4;Q9NR83;Q9P2J8;Q9P0L1;O14497;P46199;O75569;Q9NS39;O60281;Q8WJ9;Q8N859;Q9UK11;Q8N7M2;Q96K83;Q6PG37;Q8N883;Q03923;Q15025;Q96NI8;Q9H2P0;Q6ZMS7;Q8IYI8;P62979;Q06732;Q5SVQ8;O43829;Q96MR9;Q6ZN55;O60869;Q6P2D0;A6NKF2;Q9Y2P7;O60784;Q96NL3;Q3SXZ3;A6NGD5;Q96SZ4;Q96RE9;Q9NZL9;Q9BQA5;Q96NG5;Q9P215;Q7L3S4;Q9HAU4;Q9UHK0;Q13424;O60870;O43830;Q96LX8;Q8IYY4;P11166;Q9HCS7;P42766;Q9Y2T3;Q15797;Q16600;O43298;Q8TBC5;O60678;Q08211;Q7RTT4;O75155;Q16385;Q9NYW8;Q9NU63;Q96JM2;Q96JC4;Q6ZN06;Q03989;P62266;P30304;Q86TJ5;P52744;P57071;Q8IYW8;Q15652;Q9NQZ8;Q9Y2R5;P60006;Q3KQV3;Q9NQ94;P17027;Q6EKJ0;P46782;O94892;Q99612;P02533;Q16670;O94903;Q5JNZ5;Q15072;O60315;Q9HCM9;Q49AA0;Q9BQ50;O60783;Q03938;Q96MN9;Q8TF32;Q9BV97;Q9NZ52;Q14588;A6NP11;P62241;Q86V71;Q3KNS6;Q9NR09;Q00987;Q6BEB4;A4D1E1;Q9Y3D3;P32969;Q96ND8;P08651;P22090;Q9NWS9;Q9P0M9;P0CI00;Q9BRR0;P51814;P43243;A8MUZ8;P28698;Q8TF68;Q96GE5;Q96BV0;P10911;Q9UL58;Q9UKY1;Q92990;P0C7X2;P60866;Q8TCN5;Q96JF6;P43897;Q96RP9;Q9ULD5;Q9UC07;Q8NBB4;Q12802;Q6V9R5;A8K0R7;Q8N1G1;Q8TAW3;Q92670;P62854;Q6ZRR9;Q5BKZ1;Q15929;Q07020;P39019;O15060;Q86Y25;Q6ZN19;P36405;Q5VV52;B4DU55;Q9NZL3;P08758;Q03924;Q8NCN2;Q96N22;P63220;P41182;Q86UE3;Q8NAP3;Q8IZH2;P10074;Q96RL7;Q9UPG8;Q96CX3;Q9NRF9;Q3ZCT1;P17097;Q86UP8;P49207;Q9Y5K5;P58317;Q96EG3;Q96L21;P62244;A6NK75;Q9P2F9;Q03936;P82921;Q147U1;Q08ER8;P60520;Q9BX82;Q9NXT0;Q8TF39;Q53FT3;O75373;Q9Y3Z3;Q5VTD9;B1APH4;Q05481;P17026;Q9UIH9;A6NN14;Q9UPN9;Q9HCE3;P11161;P09001;Q08AG5;Q96A35;Q96K75;Q86YE8;P62263;Q8N972;Q9H963;Q6DD87;P19474;P55265;Q92901;P17544;P62277;Q9NX09;Q96AQ7;Q8IY57;Q6ZMV8;Q5SXM1;Q9NYH9;Q9H4T2;P23528;P29374;Q8NCK3;P62750;Q8WV28;Q8TF20;P62910;P63173;P17032;Q7RTS1;Q02930;Q8N823;Q8N8J6;P96GC5;O14709;Q9NR11;Q6U7Q0;Q92560;Q8N680;P46776;Q9Y6K9;Q6P280;Q68EA5;O43345;Q15075;P08238;Q9Y473;Q9GZN7;Q9NUL3;Q9Y6D6;P17017;P0CG40;P82912;O76021;P48681;P51508;Q16587;P0C7X5;Q9NVZ3;O75820;Q6ZS27;Q2M1K9;C9JN71;Q9H4Z2;P08708;Q66K89;P17031;Q9UEG4;Q9UKJ3;P17029;Q96SK3;P17021;Q6ZTB2;P16415;Q9NYT6;Q9H9L3;O95164;P15336;Q14593;Q9NRR4;O95785;Q96JM3;Q9P2A4;Q96NC0;Q8IVP9;Q16384;Q96LW9;P51523;Q15697;Q8N212;Q9UUK6;P52743;P24278;Q9BYM8;Q9Y3M9;P17020;Q8NFD5;P26640;O14978;Q8WV37;P0CW22;Q9Y6R6;Q4V348;P61586;P07900;O43294;Q9UK10;Q9P243;Q8TAT6;Q9Y2X9;Q8TF45;Q8NDX6;Q86XU0;Q9UFF9;Q9UJQ4;Q8TB69;Q13360;Q9H8V3;P49910;Q8N4W9;Q86W11;P18522;Q71UM5;P51786;Q14134;Q5JVG2;Q9BX69;Q9H0R8;Q8IX07;Q9UJW8;Q7RTT5;Q7RTT6;Q2M3X9;Q8TBZ5;P56270;O60936;Q5TB30;O00110;P27695;Q8NA42;Q9UJY1;Q15428;Q6ZMW2;O75335;Q7Z3V5;Q13351;Q99909;Q96T92;Q92618;O15235;Q8NEP9;Q96B70;Q49A33;P62906;Q2VY69;Q96B54;Q9Y281;Q14586;Q96NJ3;Q8NAM6;Q9HC78;P49790;P47914;P62280;Q8IVC4;Q9C0F3;Q6P5R6;A8MVS1;Q96J02;Q9HA38;O43296;Q9NQ03;Q9UDV7;Q15973;Q9H8Y5;Q9UIE0;Q6P3V2;Q6P1L6;Q86VK4;P62899;Q8NDW4;Q0VGE8;Q8NFP9;P98169;P17025;Q13398;O43541;Q494X3;Q9Y4X4;Q9H0H0;Q9BS34;Q9RTV3;Q13405;Q96SL8;Q5VUA4;Q86UD4;Q7Z570;O00488;P17038;Q6ECI4;Q8N3J9;Q569K4;Q8N1G0;Q96JL9;P61353;P62081;Q86XF7;Q5HY98;A6NDX5;Q6P9A3;Q9Y2A4;O75081;Q86UZ6;Q9Y2K1;O43361;P41208;P46777;Q8N488;P42677;Q9H9J2;Q9BUY5;Q9H7R5;Q8N9M5;Q9HCX3;Q9Y2G2;Q6PK81;Q9BS31;C9JLR9;Q14872;Q8TDD2;Q6ZS3;P15880;P0CJ78;Q68DY1;B2RFX5;Q9H8N7;B4DX44;Q9Y5W3;Q5TYW1;Q59GN2;O75394;Q96PE6;Q96AZ6;Q8N554;Q7Z7H8;Q9BSK1;P62891;Q9UII5;Q8TB45;Q9Y4R8;Q96KR1;Q2M218;Q86WZ6;Q96PQ6;Q8IYN0;Q9H0F6;B4DXR9;Q96MX3;P82675;Q8WY5;Q9H582;A8MXY4;A8MWA4;Q6AZW8;Q86YF9;Q63HK5;A8MYV0;Q7Z2F6;Q96F45;Q5T619;Q8N9K5;Q96KM6;Q96SQ5;Q9NZE8;Q9HCZ1;O15265;Q9Y2H8;P17014;O43687;Q96C55;Q15928;P62888;Q8IW36;P08865;Q6ZNH5;Q14590;Q9NPA5;Q14584;Q8N988;P36508;Q9H0K4;Q9BRH9;Q9H8G1;Q9NQV7;Q9NZV7;P61927;Q9Y5V0;Q9HAH1;O15015;P62917;Q02386;O75381;O15226;Q8IZ20;Q96N38;P0CG00;Q68CP9;P30305;Q96Q11;Q9P0J6;P11137;Q8NEA6;Q8N184;P46778;Q9NCP7;P62249;Q96K58;O95201;Q9H7S9;P0DI82;Q5EBL2;Q96BR6;Q6PF04;P42575;O14617;Q9BUG6;Q9C0G0;Q499Z4;Q9Y676;Q7L945;P17040;O95361;Q6IQ32;P98182;Q6DN90;Q9GZV8;P0DI81;Q12996;Q8TD17;Q969Q0;Q9UKN5;Q9Y2L8;P05386;O95600;P35268;Q14929;O95678;Q96N77;Q12901;Q6NX45;P13682;P04792;Q86XN6;A6NJL1;Q9BSG1;Q8N1W2;P17661;P62913;P15621;Q9H609;Q9UJU3;Q5F1R6;Q8IXS8;Q13127;Q13015;Q52M93;Q6ZQV5;Q6ZNG1;Q96DT7;Q96IT1;Q9NVS2;P25490;Q9UM63;P05387;P527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Pathogen{ P03383} interacts with 614 human partners: [Q969W8;Q96LX8;Q9UQR1;O95678;O14628;Q7Z2E3;O43167;P42766;P30307;Q9H7R0;Q9UJY4;Q9NRR4;P27986;O15198;Q8NI51;Q5FWF6;P05388;Q5JVG8;P62266;A6NNF4;Q9UBU9;Q8NHW5;Q15935;P39019;Q8NBB4;P19474;P26373;Q9NYW8;Q63HK3;Q96BR6;P49792;O95625;Q96SK3;Q9Y281;P62913;



Q6ZN08;O14497;Q13485;P02533;Q96SZ4;Q9BSG1;Q9UK10;A6NK75;P08047;P62854;O75528;Q9BR84;O60543;Q9H0F6;Q9NZV7;Q9H7R5;P82912;Q9Y2P7;Q9BYD2;Q9Y6K9;Q49A33;Q96A35;P17544;P56270;P62891;P25398;Q32MQ0;Q9H4I2;Q9HBE1;P62280;O60765;P82664;A8MVS1;Q07020;Q9H8G1;Q8N6I1;A8MWA4;P62750;P49711;Q9H4D5;P17022;Q86V71;Q96GE5;Q9H5H4;Q96SL8;Q96RL7;Q5HY98;Q3KP31;P05387;Q9BQ48;Q15937;P62249;Q15072;Q14526;P17029;P17661;P0CG00;P62888;Q9H4T2;P62899;Q9HCL3;Q8WW38;O75437;O95251;P61927;A8MXY4;Q9UL33;Q9H0W8;Q96NI8;Q9HCS7;A6NKH3;Q9UPN9;P41227;P46777;Q92670;O75362;P51815;P46779;Q8N7M2;Q9BRR0;Q9GZN7;P49207;Q13360;A8MTY0;Q9P0J6;Q8TD23;Q05481;Q9Y2Y9;Q96H40;Q2M3W8;Q8N4W9;O43734;O60290;Q6ZN06;Q6ECI4;Q6P3V2;P49406;P60953;P82933;Q9UK13;P51508;P46778;O95218;P41208;P46013;Q9BYN7;Q8N3J9;Q13490;P52744;B4DX44;Q8NEP9;Q92901;P62753;P30304;Q5CZA5;Q8TF20;Q8WYQ5;Q76KX8;Q96AQ7;P42677;P37275;Q8NDQ6;Q9NWU5;Q9NL58;Q9ULD5;O14709;P63000;P61247;O00712;Q9BYC9;Q3MJ62;Q9BWU0;Q96KR1;Q5JNZ5;O75155;P28838;Q12901;Q9C0F3;A4D1E1;O60936;P83881;P35789;Q9NZM5;Q86VP1;Q9UFF9;Q12874;P24385;Q8NA42;Q6P9G9;P17019;P09001;Q6IQ21;P26641;Q96N20;Q9Y2Q1;P47914;Q5T653;P04792;Q15797;Q9P0M9;Q71UM5;Q9Y2R9;Q9Y6D6;Q96N95;Q03923;Q8N988;P62917;Q86V15;Q3MIS6;Q96SE7;Q86XF7;Q05516;P82914;P28698;Q9GZX5;P49247;Q9Y4R8;Q13405;P62273;Q8TB69;P0C7X2;Q9P0L1;P17038;P07900;Q14690;P15621;A6NK53;Q86YE8;Q9UNX3;Q8WV37;Q9HAH1;Q96L21;P51504;Q8N587;Q9UHD4;Q6ZR52;Q969Q0;P59923;P17098;Q9NRX2;Q9NQX1;Q15022;B4DU55;Q6NSZ9;P0CI00;Q16385;P18146;O94906;Q9NTW7;P84098;Q13398;Q66K89;Q53GI3;Q9UK11;Q49AA0;Q6IQ32;Q8TAF7;O75394;Q8IYI8;Q14872;P32969;Q9UKJ3;Q9Y2L8;Q9NVS2;P17014;Q14588;P25208;Q7Z3V5;Q96LW9;A8MUV8;A8K8V0;Q8TF47;Q8N5C8;O95201;P82675;Q9HAZ2;Q8651;Q9HCG1;P52746;Q499Z4;A6NDX5;Q7L2R6;P62277;P78560;Q9BYD6;P18077;O15105;O60870;P63173;Q5VUA4;Q6ZNA1;Q03112;O14978;Q13952;O15015;P60006;Q8IYX0;Q8NB50;O60783;P62081;Q9H963;Q96MR9;P84022;P98168;B4DXR9;Q8N895;O75081;P52747;Q15928;P18583;A6NGD5;Q96ND8;Q9UDV6;Q9C035;Q9UID6;A6NJL1;Q8NEM1;Q9NV72;Q5JNZ3;Q9Y2R5;Q96N38;Q15652;Q12857;P17010;Q9UHK0;Q9UNY5;Q32M78;O00273;Q96MN9;Q02447;Q9H063;Q7RTT5;Q13105;O14893;Q8N488;P61586;O95125;O14641;Q08AN1;P35637;O15265;P61313;Q13015;P08865;Q9GZU2;Q9BQA5;P17040;O75290;P52742;Q9UJY5;P17032;P0CH99;Q96N22;Q8N859;Q9Y2G7;P17036;P24278;Q96LW1;Q6PG37;O43345;Q9BX82;Q52M93;Q68CP9;A6NHJ4;Q99717;Q8TAT6;Q9P2J8;O95780;O60304;P46782;P0DI82;Q7Z3K3;Q9H9L3;Q6ZNG1;Q9NZE8;Q9NSC2;A6NKF2;O75381;O15014;O43541;P52743;P62269;Q8NF99;O60225;Q9HCM9;P0DI81;Q9ULJ3;Q15025;P63220;Q6IV72;P62244;Q70YC5;Q15697;Q22878;Q8N7K0;Q86UE3;Q68DY1;Q9Y6X8;Q9UKN5;P15822;C9JBD0;Q5VIY5;Q9Y3D5;P10074;P10073;P11142;Q6U7Q0;Q96C28;A8MUY8;Q9Y5K5;Q03936;P82921;Q9Y462;Q15929;Q9H7S9;Q8NE65;P62910;Q8N8C0;P27635;O43829;Q96IT1;Q3ZCT1;Q8N9Z0;O95999;Q8N972;O60784;Q8TF32;Q68EA5;P43897;P62857;Q99684;Q9Y2G2;Q9ULX6;P52737;Q96IR2;Q12906;A6NN14;Q6ZMS7;P62906;Q5SVQ8;Q16670;A6NP11;Q9Y3U8;Q9H116;P60866;P52815;Q96GC6;Q9H9D4;O15535;P61254;Q494X3;Q86XN6;Q9UC06;Q4LE39;P43268;P11161;P62979;Q8N0Y2;Q5HYK9;Q8N782;P0C7V5;Q5TEC3;Q15916;P62241;Q86YF9;Q6P280;Q6ZMY9;P46781;Q53FT3;O43309;Q96EH5;Q9HBT7;Q96NJ6;Q8NAP3;A8MT65;Q9PFC8;Q9P255;Q99909;Q8IWY8;Q9H9J2;Q9NR09;Q9UII5;P51522;Q7RTV3;P39023;P49910;P55265;Q9Y2D9;Q8IW36;Q8WTR7;Q6NUN9;Q8IY57;Q96SR6;Q9UKT9;Q9UJY1;O14771;P52736;Q7RTT6;Q9UM63;Q9Y5A6;Q8IYN0;Q92785;P27695;Q99676;B1APH4;C9JN71;Q9UC07;P51786;P23528;Q969J2;Q8TAQ5;Q9Y2X9;P22090;Q8NFD5;P61970;Q92922;Q66K41;Q92900;P15336;Q9NXV6;Q99856;Q9UJX2;P62701;Q2M1K9;O60481;Q01844;O60869;Q9NZL3;Q15776;Q9Y676;Q5SXM1;P62263;P62847;Q9Y2A4;Q02930;Q08ER8;P35268;Q86W11;P05386;Q08AG5;Q9NUL3;P50914;Q2QGD7;O15235;Q9NYJ8;Q14585;P51523;Q8N720;Q6ZN79;Q8N7Q3;Q8N141;Q8TA94;P17028;Q9UL40;Q9Y399;Q96PQ6;Q9NSJ1;Q01658;Q9BUY5;Q6P9A1;Q9UHF7;Q8WXB4;P62861;P08238;Q8NC26;P18621;Q6V9R5;P21673;O75346;Q9BYK8;P49790;P46776;Q96GC5;Q9NQS1;P15880;P23396;Q16384;Q8NHY6;P16415;Q9Y3D3;Q9Y6R6;Q9Y473;O15226;Q9BUG6;P61513;P98182;Q9ULD9;Q59GN2;Q9NPJ8;Q6ZMV8;Q8N823;Q9UQN3;Q8TF39;Q2VY69;P13682;Q8NI08;Q13127;Q15633;Q9ULV3;Q6ZQV5;Q9UKK6;Q96NG5;Q14593;Q9P0T4;O76021;Q969S3;P27797;Q9H0U6;P08708;P52741;Q8NB42;Q5BKZ1;P0CB33;Q9NZ52;P61353;Q03938;Q8IYB9;Q13129}

5632

Pathogen{ P03410} interacts with 1037 human

partners: [Q9NSD4;Q96EG3;P84022;Q9Y2P7;Q9HCG1;Q7RTT6;Q96NI8;A8K8V0;Q6AW86;Q5CZA5;Q9H0Y0;Q9H0M5;Q9BWE0;Q9UHF7;P0DI82;P08048;O14771;P62861;Q9Y2L8;Q9HC78;Q8N1W2;Q96JB3;O60224;P05386;Q6ZNG0;O14901;Q6ZNA1;O15392;P17031;Q9NZM5;Q5HY98;Q5TB30;Q8NHW5;O43309;Q6ECI4;Q96RE9;Q6V9R5;Q5JVG2;Q96Q11;O60281;Q8NBF1;Q14588;Q96BR6;Q5EBM4;O75290;B2RXF5;Q9Y399;Q9BYN7;Q5JNZ3;Q8TAU3;Q8IYN0;P61247;O75335;P62241;Q8WVJ2;Q9NYW8;P0C7V5;Q96RL7;P49207;Q8WXJ9;Q8WTP8;P26373;P27986;P61513;P0C7X5;Q9HAH1;Q5T619;P02533;Q03112;Q6ZMY9;O95218;A6NN14;Q32M78;E7ETH6;Q9Y2Y9;P29374;Q13106;Q8N9Z0;O14893;Q8NDW4;Q9NZL3;Q9Y2G2;Q9UFF9;Q9UDV7;Q14593;Q6ZVM7;Q14526;Q9GZR2;Q9UK13;Q9Y3B8;Q8N8E2;Q96N58;Q2M3W8;O60293;Q8N8Z8;P11137;P62899;P16415;Q96N22;Q13360;Q15697;O75373;O95780;A8K0R7;Q5VUA4;P0CJ79;Q8N7Q3;Q9HCM9;Q14929;Q8TF68;P0CW22;Q9POM9;Q9Y239;Q8N3C0;Q15633;P0CH99;P17040;Q8TCN5;Q96H86;P15621;Q9NPA5;P37275;Q8NI08;P62244;P13682;Q96JM3;Q9H4T2;Q8N587;Q9UL59;P36508;Q91296;P58317;Q96C28;Q8N7M2;Q96N38;Q9BRH9;Q86XF7;Q3MJ62;P98169;A6NDX5;P62913;P17661;Q8WTR7;Q96CS4;Q92804;P78560;Q8IV48;Q9UDV6;Q9HAZ2;Q99676;Q16540;P15822;Q9H7R0;O15151;P52738;Q9HBT8;Q9Y4R8;Q15973;P52740;Q15652;Q9NV72;Q02878;Q8NDH3;Q76KX8;Q5T0B9;Q66K89;P63000;Q92901;Q96SZ4;Q9BQ50;P11166;P98182;Q8TDD2;P08238;Q8N680;Q9H9D4;Q96SQ5;Q9H4I2;Q96JL9;Q8TDW5;Q9NZ52;Q02447;Q8IZZ1;Q9NVZ3;O95251;Q13015;P15880;Q16600;P46777;O95125;O60481;P46776;Q06730;P98171;P82675;Q92670;Q5JNZ5;O15060;Q9BSG1;Q569K4;Q8N8C0;P0CG23;Q6AZW8;Q6ZMW2;Q6P3V2;O14497;Q9UC06;Q9UII5;A6NFI3;Q15776;Q8NB50;Q8WV44;O75674;Q9UHD4;Q9C0G0;O75382;Q9Y6Q3;P10073;Q0D2J5;P05388;P46013;Q9BQA5;Q9GZU2;Q3ZCX4;Q03989;O15235;Q14938;Q8TAW3;Q9NQX6;Q8N4W9;P42575;Q9UHK0;Q96KR1;Q8TAQ5;Q8N611;Q96AQ7;P46781;Q14019;Q8TD17;Q8N3J9;Q3KP31;Q9BYK8;Q96N77;P60520;Q6PG37;Q8N8C2;O75528;Q96A35;Q8IYB9;C9JLR9;Q9NR11;Q9UL33;P35789;Q99717;Q8NF99;Q6ZRR9;Q8IYX0;Q96RP9;Q7L2R6;O76075;Q96K62;Q96PQ6;P35637;Q86WZ6;Q9UPG8;Q6ZN11;Q9NYT6;Q92610;Q8NBB4;Q9UNA4;Q12857;Q8TF50;P49406;P17017;Q8TF45;Q9UKK9;Q5VIY5;Q969S3;Q96ND8;P46199;Q13490;O60870;Q8IYI8;Q9UPQ4;Q8IW36;Q9BYD2;P24278;Q8WV28;Q2M218;Q6P2D3;P36405;Q9BYX4;Q08ER8;O15198;Q8TF39;Q5WFF6;Q9UK11;Q17R26;Q8NHP7;A8MT65;P62269;O00270;A6NHJ4;Q9ULJ3;P0CB33;Q9NXT0;Q9BU19;Q96JM2;Q9ULD9;Q07020;Q96LX8;Q9UIH9;Q86XU0;P63220;Q2VY69;Q9H4Z2;Q6IQ21;P62910;O95678;Q96GC6;P62847;Q59GN2;O43294;Q9NPC7;P62906;Q86UQ0;O43

830;Q9NYH9;Q9C0F3;P11142;Q9P0J6;Q2M1K9;Q9NZV7;P57071;Q0VGE8;Q9H963;Q96N95;Q6NSZ9;P52815;Q9Y2K1;P04792;P23396;Q7RTS1;O75437;Q6ZSB9;Q9NXV6;Q9UL58;O14709;P18621;Q96K75;Q92785;Q9H8Y5;Q8N720;P62266;Q9NWU5;P52741;P07900;Q9H063;Q53FT3;Q9NPP4;P62249;Q9C000;Q6NX45;Q9NRG0;Q9UJL9;Q9NSJ1;Q6PF04;P63173;P50914;Q969Q0;Q94892;O75381;P62280;Q9Y3M9;Q5F1R6;A6NM28;Q9UJY1;Q9H116;Q03923;Q6PK81;Q96EH5;Q9P243;Q9HCL3;Q15025;O00110;Q68DY1;Q9P2A4;Q9H7X3;Q99684;Q9UIE0;Q53GI3;Q8NB42;P55265;O60304;Q6U7Q0;P22090;Q09FC8;Q60732;Q9Z1N9;P17025;Q9BYD6;Q52M93;P61313;Q8WYQ5;P62979;Q8TAT5;Q9UKF7;Q9NWS9;Q4LE39;Q8NEM1;Q9Y3D5;Q9H9J2;P51523;Q8NFD5;Q6ZN55;Q6ZT77;Q7Z2F6;O14617;Q96HQ0;Q5H9K5;Q9UJY5;Q9NRR4;P28838;O00712;P62701;Q8WW38;P25490;Q96LW1;P52746;Q86VP1;O15226;Q6IV72;P17036;Q9BTV5;Q8TCC21;H3BQB6;Q9NTW7;P51508;Q3MIS6;Q9H707;Q96SR6;Q5TEC3;B4DXR9;Q8NEP9;P62750;O75569;Q5JUW0;P17544;Q5SVQ8;Q16670;O60783;Q5EBL2;P82664;P17010;Q8N1G0;Q9UQR1;Q9GZV8;Q14587;Q96PE6;Q15928;Q9BRR0;Q9UNH7;Q9NZJ9;P08865;Q8TAF7;Q96L21;Q8N8L2;Q96NG8;Q86T29;Q7Z2E3;Q9ULD5;Q9H4D5;Q02930;Q9Y2T3;Q96MN9;P10072;O15535;Q9UNX3;Q9NR09;Q6ZN06;Q96BV0;Q14590;Q9UK10;Q9BUG6;P62277;Q8IZH2;Q13127;Q8WXB4;P17022;Q96GE5;Q5SXM1;Q9UKT9;P08651;Q9HCS7;Q6ZMS7;Q9Y2X9;O94906;Q6ZMS4;Q08AN1;Q9Y676;P17029;Q7L3S4;Q8IVP9;P18077;Q9C035;Q8N823;P24385;P0DI81;Q7Z340;Q9UBZ4;Q8TB69;Q13492;Q96H40;P41227;Q9P0M2;Q8NEK5;Q7RTT5;Q3KQV3;P17098;P25398;Q14966;Q8TBZ5;Q9H0H0;O60936;Q86YF9;Q9BWM5;P49790;Q6NUN9;Q8IX07;Q8IY57;A8MWA4;Q9Y2Q1;Q3KNS6;Q9UQN3;P51814;Q6IQ32;P10074;Q9GZY6;P61927;Q6ZNH5;Q9UL40;P84098;Q9NQV7;Q9BV97;P62854;P17026;O95999;Q9BS31;Q6EKJ0;Q9HCE3;Q02386;Q8NEA6;P0CG31;P43243;Q9UK12;Q9H0R8;P52737;Q96I27;Q7Z398;Q8WXX3;O60225;P62273;Q9NRX2;Q8N972;Q96B70;Q7Z3I7;Q6ZN79;P15170;Q6P9G9;P0C6E6;Q6PDB4;Q969W8;P17028;Q8N883;Q49A33;Q8NCK3;Q9UKN5;P61586;P17019;Q96C00;Q8NAP3;Q9UNY5;Q03924;P62081;Q9BXL7;Q32MQ0;Q68DY9;P17030;Q9BS34;P52743;Q9P0L1;P30304;Q8TD47;Q13129;Q9ULV3;Q92990;P52736;A6NGD5;Q9UGR2;Q9NYJ8;P0CI00;P25208;P51815;A6NK53;Q14872;O75362;Q9UJW8;Q96K83;P05937;Q5HYK9;Q9BWU0;O43734;Q8IXS8;P17014;C9JN71;P0CG24;Q68EA5;Q96SE7;Q9UPP2;Q8NA42;Q9Y3U8;Q6P280;Q15797;Q92922;Q96AZ6;P17024;Q5VV41;Q8N5C8;Q9H609;Q9L7K0;Q5T5D7;Q14119;P43268;Q15428;Q8IX06;Q6GS27;Q9P215;P17020;Q99909;P05408;Q01658;Q9UXL6;Q13485;Q9BUY5;Q96IR2;Q96B54;Q13952;Q8IZ26;Q8N3I7;Q969J2;O60784;Q96MX3;Q9H7R5;O60447;Q9BY31;Q6XZF7;Q8NE65;Q9Y6D6;Q9Y5V0;Q9NRF9;Q147U1;Q9H1K0;Q9UM63;Q8N1G1;P08708;Q9Y2R9;P46782;P32969;Q96SK3;P21506;Q7RTV3;O43296;Q9UBU9;Q6P1L6;P18583;Q9UKD2;Q9Y6D5;Q9Y6X8;P17032;O15014;P17027;Q9NQV6;Q3SY52;Q14585;A8MUV8;Q9BQ48;Q9GZX5;Q13118;P49910;Q92618;Q86KN6;Q5VV52;P21673;P51786;B1APH4;P41182;P0CG00;Q5T653;O15015;Q9HBT7;P13398;P82912;Q5JVG8;O75346;O95785;Q8IZP0;Q6ZRF7;Q9NR33;Q5BKZ1;Q9Y281;O43541;Q96MR9;Q8N488;A2RRD8;Q96F45;Q9NW07;Q15438;P49711;Q9Y6R6;A8MT70;Q6ZTB9;Q9H6B1;Q8N988;Q9NUL3;P98168;Q5MCW4;Q86V71;O15105;Q95625;P46779;O14628;P27635;Q8NI51;Q7Z7K2;P59894;Q9NZE8;Q9H8N7;Q96IT1;B4DX44;Q9NPJ6;Q9ULM2;P60953;A8MYV0;Q9Y2Y4;Q8WV37;Q9H0K4;Q8NC26;Q92664;A6NJL1;Q9UC07;Q9HA38;Q14586;Q15940;O75081;Q66K41;P27695;Q8NCA9;Q7Z2W9;Q9P2F9;Q9UJN7;O60869;A6NEJ1;P28698;Q7Z7L9;P17035;A8MUZ8;O14978;Q9Y5K5;P59923;P62857;P26640;Q9Y2H8;O95793;Q9BYC9;P56270;Q9P2J8;Q5TYW1;A8MQ14;Q96NG5;Q7Z3K3;Q2QG7;Q6ZSS3;P62263;Q6ZN08;Q9H8G1;Q9Y2P0;Q9Y462;Q3SXZ3;Q86UE3;O60543;P08047;P62888;Q8TB45;Q9P255;P61254;P17039;C9JBD0;O15265;Q99856;P46778;A6NKH3;Q9UJU3;Q43687;Q494X3;P05387;Q8TBC5;A6NK75;Q8N9K5;O95201;A6NP11;Q9H7S9;A8MTY0;Q8TF20;A1A519;Q00987;Q9NX65;P42766;Q16384;Q9NQZ8;Q68CP9;O75626;Q8TF32;Q86UD4;Q63HK3;Q15937;Q6P9A3;O43829;P60006;Q63HK5;O75123;Q8N8J6;Q7RTT4;P26641;Q3ZCT1;Q8N782;Q96LW9;Q6ZQV5;P09001;Q8TF47;Q12901;P39019;Q9H8V3;P47914;Q14584;Q8N141;Q13105;Q49AA0;Q6ZN57;P82933;Q8TD23;Q15929;P17041;P23528;Q15283;Q9Y6K9;Q9H0W8;Q13424;Q96MU6;P30305;Q9Y3Z3;Q96N20;Q6DD87;A6NKF2;O60765;P39023;Q86YE8;Q8NDP4;Q8TA94;Q9NSC2;Q9BR84;Q9UID6;Q03936;P18146;Q9BX69;Q96K58;O76021;P17021;P15622;P52744;P51522;P17023;O75820;Q8N895;Q5VTD9;Q96JC4;Q8TBZ8;Q14865;P82914;Q96NJ3;Q05481;Q9BWT7;P62917;Q8N859;Q9BX82;Q12874;Q7Z7H8;Q7L945;P82921;Q9NVS2;Q14592;Q9GZU0;Q6P9A1;Q96JF6;Q86V15;O43823;Q96CX3;A8MXY4;Q96NS5;Q15796;P10075;P0C7X2;Q9UJQ4;Q9UL36;P41208;P15336;Q9UEG4;Q9NQX1;P11161;Q8N2I2;P35268;Q08211;P0CJ78;A8MV51;Q9Y2R5;Q9NU63;A6NNF4;Q68D11;Q8N123;Q50432;Q6NDQ6;Q9Y2D9;Q9UKY1;P61353;B4DU55;Q9NX09;Q96SL8;Q9UKJ3;O95164;Q4V348;O75467;P62891;Q8TAT6;Q9Y5A6;Q96G61;A1A5B4;Q9BXU3;Q9NQS1;Q6ZMV8;Q12906;Q9UPR6;Q14591;O43345;O94903;Q9HCZ1;P30307;Q6ZNG1;Q9Y2G7;O43167;P49247;Q9UKK6;Q9NZL9;Q96PM9;Q15072;Q86UP8;Q70YC5;Q9NUA8;Q86TJ5;Q9Y2A4;P52742;Q9UJW7;Q9H9L3;Q6ZR52;P17038;P62753;O60290;Q7RTT3;Q6P5R6;Q15022;P17097;Q9UJY4;Q9BXW6;Q13405;Q9UPN9;Q71UM5;Q8NHV6;Q9H5H4;Q7Z3V5;P49411;Q6ZNG9;Q86W11;Q86Y25;Q499Z4;Q9HBE1;Q8N393;Q2M3X9;P49792;Q9GZN7;Q8N184;P43897;Q9Y473;O75394;P52747;Q96NJ6;P83881;Q8IVC4;Q9NQ88;Q9HCX3;Q9H0U6;Q14690;P60866;A4D1E1;P01011;Q9H0F6;P51504;B7Z6K7;Q8N9F8;O75155;Q96NL3;O14641;P42677;Q9Y3D3;P61970;Q8IYW8;Q8IZC7;Q8N0Y2;Q16587;Q96GC5;Q08AG5;Q9UFB7;Q15935;Q03938;Q16385;Q6NX49;O75616;P27797;Q9BSK1}

5633

Pathogen[ P14075] interacts with 576 human

partners: {P60953;Q0D2J5;Q9NZL3;Q9C0F3;Q494X3;P17029;Q96RL7;Q68DY1;Q9NTW7;P78560;P42766;Q7Z2E3;Q8NI51;Q9NSC2;P49207;Q8TAQ5;P51815;Q92990;P62857;P52815;P46781;Q969S3;Q8TAT6;P63220;Q15929;Q6V9R5;Q7RTT5;Q9UJY4;O76021;P32969;Q9NXV6;Q9BYD6;P60006;Q9NRX2;Q53FT3;Q9BYD2;Q14690;P42677;Q9Y5A6;Q969J2;P62913;Q9UHD4;P82921;A8MTY0;P22090;Q96GE5;Q9P0M9;Q9GZU2;P41227;P11142;Q02878;O00273;B4DXR9;Q8N141;Q13105;P82912;Q6ZN08;Q9H4I2;Q9UKJ3;O15265;Q9UM63;Q96L21;C9JLR9;P51523;Q14526;P52737;P0C7X2;Q9NV72;Q96KR1;P62277;P55265;Q9UQR1;Q8NEM1;Q9NUL3;Q96GC5;Q8NC26;Q16385;Q8N488;Q96NJ6;Q5BKZ1;Q14938;Q2M3W8;Q9BQA5;Q59GN2;Q15928;Q4LE39;Q8IY57;Q14593;P08865;P0CI00;A6NHJ4;O60481;P52747;P61970;Q8NA42;Q14588;Q86XF7;Q15697;Q8NB50;O60765;Q8NBB4;Q6ZNG1;P27695;Q9Y2A4;P62244;Q6U7Q0;P49406;Q9Y2R5;Q12901;Q8TD23;P25208;P0CB33;P08708;P52736;Q96MR9;O43541;Q15937;Q96S24;Q9UKN5;Q01658;Q9H7R5;Q9H116;Q7L2R6;O75362;Q6NUN9;P61254;P43268;P46778;Q9UID6;Q9Y2G7;P59923;O75394;Q6P9A1;P28698;Q8N782;Q9H7R0;Q96SL8;Q9HBT7;Q15652;O15015;Q96C28;P11161;Q6ZQV5;Q15428;Q96ND8;P49792;Q9UK11;P17036;Q01844;O14709;P05388;P18146;Q13015;Q9NYW8;P26641;Q9Y3D3;Q16384;O95625;Q9NZ52;Q6ECI4;P83881;P17661;Q9NPJ8;Q92922;O15226;Q3MIS6;Q9HAH1;P17019;P15822;O95218;A8MT65;Q5T653;P46777;Q96IT1;Q9Y3U8;P04792;O43167;P62249;Q12906;Q8TAF7;Q99717;Q9UJY1;P62081;Q8WW38;P15336;Q9H9J2;Q9UL58;O43734;P62750;P18621;Q969Q0;Q9Y3D5;Q9BRR0

;Q9Y6D6;O94903;Q15796;Q08AN1;Q96N95;P0CH99;Q8NHY6;P08238;Q03936;Q9BYC9;Q6ZMV8;Q9UNX3;O94906;P25398;Q13398;Q53GI3;Q86W11;Q9BQ48;Q8N7Q3;Q14585;Q13952;Q9ULJ3;Q9UJX2;Q99856;O14497;O75290;O75081;Q9Y2Q1;P17040;Q8N5C8;Q92785;Q16670;Q96AQ7;Q8WV37;Q9HAZ2;O75381;Q9HCM9;P23528;Q9Y2R9;Q7RTV3;C9JBD0;Q13405;Q9Y676;Q9ULD5;Q96NI8;P17098;Q96MN9;Q13485;Q9UHK0;A8MUZ8;O60870;P07900;Q8WTR7;P24278;A4D1E1;Q86XN6;Q5TEC3;P63173;Q8IYI8;Q12857;Q9NWU5;Q9HCL3;Q5VIY5;O15235;Q5VUA4;P62979;P43897;Q9Y399;Q92670;Q8TA94;P84098;Q9NQX1;Q9NZV7;Q86VP1;A6NGD5;O14641;Q12874;Q13490;Q05481;Q9UNY5;O75528;P52746;P61247;Q8N4W9;O60783;Q9POL1;Q99909;Q9BUY5;P62753;P46782;Q32M78;P62891;Q96N22;Q8IXS8;P62861;P52742;Q8N7M2;Q99684;Q9BYN7;Q8N3J9;Q9HCG1;Q96A35;Q9H8G1;P18077;Q9H963;P82664;Q9NQS1;O95780;Q68CP9;P46779;Q8NDQ6;P62917;Q9ULX6;Q9Y2D9;Q9UQN3;P39023;Q9NZE8;Q9H9D4;P51504;P52744;O60543;Q15014;Q9UPN9;P50914;Q8NAP3;Q9UHF7;P62269;P62847;Q6PG37;P62910;P0DI81;P62273;Q8N6I1;O15025;P27797;Q9NZM5;Q8IYX0;Q9UKT9;P0CG00;P27986;O15198;Q9Y6X8;Q6IV72;Q8N587;Q8N895;Q96IR2;P23396;P19474;P62241;P15880;O95251;O14628;O60290;Q9BR84;Q8NB42;Q9C035;Q8IYB9;Q9H063;P82914;Q3ZCT1;Q9NRR4;A6NKF2;Q6ZN79;O14978;P61586;Q5JNZ5;P08651;O15105;O95999;P62266;Q9Y2L8;P30304;A8MWA4;Q8N9Z0;Q66K41;Q9BSG1;Q6IQ32;Q15935;Q03112;Q15633;P52743;Q8N988;A8MUV8;A8MVS1;P41208;P17028;P63000;P61513;Q9UK10;Q66K89;Q6ZMS7;P61313;P98168;Q8NFP9;Q9H9L3;P27635;A8K8V0;P17010;Q14134;Q02447;P62888;Q86YE8;Q9HCS7;Q9Y4R8;Q96BR6;Q5HY98;Q9Y2X9;P15621;Q9UFF9;Q49AA0;Q9H0U6;Q92901;P98182;P0C7V5;P49711;Q96LW9;Q96H40;Q32MQ0;O00712;Q96N20;P35268;Q8TF47;Q9NR09;Q96PQ6;P49247;Q6P9G9;Q13127;Q8IW36;Q3MJ62;Q9Y2P7;Q9UDV6;Q8TF39;Q05516;P35637;Q15022;P46776;Q6ZN06;Q96GC6;Q96EH5;P09001;P10074;Q7RTT6;Q9H0W8;Q8NFD5;Q9UL40;Q13129;Q09FC8;P56270;P35789;O60304;Q96N38;P17022;Q9RTT3;Q9Y6K9;Q969W8;P24385;Q49A33;O95678;Q9Y473;Q8TB69;Q96LW1;Q03923;Q9UBU9;Q7Z7H8;Q9GZN7;O95125;P62701;P84022;Q86V71;Q8NI08;P49790;Q9UL33;Q9H7S9;O43309;P62899;Q8N720;P37275;O60936;P82933;Q13360;O60869;P47914;P21673;A6NKS5;O14893;P62906;Q2M1K9;O43823;Q9UK13;Q9H4D5;Q96NG5;O71515;P17544;A1A519;P05386;Q7Z3K3;Q9UII5;Q2QGD7;Q6ZMY9;Q9BX82;P61353;B4DX44;Q8N859;P39019;P28838;Q9GZK5;Q86V15;Q5FWF6;P49910;Q96N77;O60225;Q9GZU0;P46013;Q9NY02;Q63HK3;P30307;Q9ULV3;Q86YF9;Q8WXB4;Q9UKK6;Q9ULD9;P62280;P02533;Q8NE65;Q70YC5;Q9P0J6;Q9H0F6;Q14872;Q68EA5;P18583;Q15776;O75437;Q9BYK8;Q9Y462;Q07020;Q02930;P10073;Q5JVG8;O43829;Q9Y281;Q9BWU0;P62263;Q8NEP9;Q08AG5;P62854;P60866;Q8IYW8;C9JN71;Q9UJY5;P82675;O95201;Q76KX8;Q9Y2Y9;P26373;Q8N823;Q8N972;P0DI82;O60784;P05387;O75346;A6NP11;Q8N7K0;A6NKH3;Q6P280;B1APH4;Q9NVS2;Q8TF32;Q9Y5K5;Q9Y6R6;Q15072;Q9Y2G2;Q3KFP31;O14771;Q9BUG6;Q8WYQ5;Q9HBE1;P52741;Q9UC07;Q71UM5;Q03938;Q9NYJ8;P61927;P08047}

5634

Pathogen[ P0C206] interacts with 1051 human partners: {Q9UID6;P27695;Q02386;Q8N9K5;Q5VUA4;Q9NUA8;O43829;Q8N720;O00488;P28698;Q6NUN9;Q15072;Q9C000;Q13887;P84022;Q9NQX1;Q3KNS6;Q86W11;Q9UFF9;Q9Y2X9;P61313;Q96JL9;A8K8V0;Q9UK12;O43541;Q6P9A3;B1APH4;Q86VZ6;Q96A35;Q86V15;Q969W8;Q16385;Q96PU5;O14628;P08048;Q9BZE0;Q9H5H4;O43309;O95201;Q9BSN8;Q14019;Q8TC21;Q9Y3M9;Q9Y3D5;P0DI82;Q8N988;P98168;Q96SE7;P0CB33;O75528;Q14587;Q96JC4;Q9Y399;Q8NHW5;O60481;Q96L21;P27635;Q96BV0;Q9NQV6;P17661;Q32MQ0;Q63HK3;Q7Z3I7;Q96NI8;Q9UJN7;Q96N22;Q504Q3;A8MX4;Q9BUY5;Q96MM3;Q14588;Q7Z398;P49790;Q03924;Q9BUG6;P17026;Q7Z2W9;Q96IR2;Q7Z2F6;Q6IV72;P55265;Q5JNZ5;Q9GZU2;Q5T5D7;O95251;P62854;Q8N883;Q96CS4;P27797;Q9Y2G2;Q9H0U6;Q9NYT6;Q9Y6Q3;P98182;Q9H0K4;Q8NB50;Q9NRF9;Q9UJQ4;Q9HAZ2;Q8N9F8;Q13127;O95780;P13682;Q9Y6K9;Q9UPN9;Q8IYN0;Q05481;Q15911;P49207;Q3SY56;Q0VGE8;Q8IZH2;Q9NZM5;Q6PF04;Q8NKN2;Q9BQ48;Q08AG5;B4DU55;Q6NX49;Q9UC06;Q9NZL9;O60784;O75123;Q147U1;Q14586;Q96PE6;Q9GZN7;Q13263;Q9UKK6;Q9UII5;Q8N6I1;P52741;P30307;A6NGD5;B7Z6K7;Q9H4I2;Q9UNH7;P62081;Q9Y3D3;O00308;P11161;Q8IYX0;P17031;Q9HAU4;Q86VK4;P18583;A2RRD8;Q9NW07;P10074;Q9NR33;Q9UK13;Q96SL8;P17544;Q96DT7;P0C7X5;Q9UDV7;P25490;O43313;O75290;P15622;Q8N9Z0;Q9NSD4;O60783;Q02446;Q86UP8;Q8N8Z8;P08651;Q9UNA4;Q9HE1;P82914;Q9UJL9;Q14966;Q96F45;P49910;O95164;Q9P243;Q14690;Q92664;Q6ZSB9;O60225;Q86YF9;Q8N5C8;Q96N95;Q8TB69;Q49AA0;P62241;Q9NSC2;Q96I27;O75381;Q9UC07;Q9NR11;Q9Y6D6;Q9Y2Y9;Q15697;P62244;Q5CZA5;Q86VP1;Q5FLR6;P50914;Q7Z7K2;O75382;P41182;P17024;Q05516;Q6V9R5;P08865;P52743;Q08211;P41227;P62750;Q9UJX2;Q9BTV5;Q9H7R0;Q9BS31;P18621;Q9UHK0;Q96K75;Q9NQZ8;Q9NR83;Q7L3S4;Q9NXT0;Q8IV48;P46781;P78560;O76075;P52737;P62266;P59923;Q8WXB4;Q9UK33;Q8IYI8;O75081;Q9H1K0;Q9P2F9;P29374;Q9Y2Q1;Q9UL58;Q9H9L3;Q9Y2D9;O95999;Q9BU19;Q8WTR7;Q7Z7H8;Q99717;P17019;Q5VIY5;Q6ZHF7;O60870;Q9Y676;Q9NPA5;O95600;Q5T1R4;Q8WW38;P09001;Q8N8E2;P46013;O43670;Q05086;A6NHJ4;Q6EXF7;O94892;Q9H4T2;C9JLR9;Q9NXV6;Q9UJX2;Q86T29;Q07020;Q96J02;Q9P0M9;Q9BWU0;P83881;Q9UM63;Q6ZS27;P46778;Q9Y2P0;Q96SK3;Q96MX3;A6NP11;Q3MIS6;P28838;Q9UL59;Q8N1G0;Q8NI51;Q9Y462;Q9NS39;Q6ZMY9;P10073;O15265;Q68EA5;Q96JF6;Q7RTT3;Q3SY52;Q9HCX3;Q8N680;P15336;Q6PDB4;Q86UD4;Q6ECI4;P62263;Q9UJW8;Q12901;Q969J2;P52738;Q9UIH9;Q12874;P62273;Q9UJY4;P17027;P51508;Q92670;Q8N7M2;O60765;Q9P215;Q5SXM1;O43734;P43268;Q9HCG1;O75467;Q9BS34;Q96C00;Q92922;Q02878;P15621;O75626;Q9P0J6;Q9NWU5;Q8N7K0;Q569K4;Q9ULJ3;P51522;Q99909;Q5T653;Q8N0Y2;Q8TAF7;Q01844;P04792;P17023;Q96KM6;Q6ZN30;Q8TAT6;Q03936;Q9UBZ4;Q13398;P10072;P98170;P30305;O15164;C9JN71;Q7RTV3;Q14591;Q96T92;C9JBD0;Q9NEX0;O75437;Q9NRX2;Q14590;P62280;E7ETH6;O95678;Q68DY1;A1A519;Q2VY69;P49406;P26641;Q8N6Q5;Q8N06;Q9H0H0;Q6P5R6;A6NNF4;Q8N3I7;Q86UE3;Q9ULX6;Q5EBM4;P62857;P11166;A8MQ14;Q15796;P62910;A8MUZ8;Q5TYW1;Q8WV37;Q96H40;Q9Y2G7;Q9BRH9;Q9BQA5;Q3MJ62;Q5BK21;Q14669;O15226;P26640;Q9NX65;O95125;Q9Y6X8;P27986;Q8N3J9;P52740;Q8N1G1;Q9P2Y4;A8MT70;Q6P2D0;Q14938;Q96K62;P46782;Q76KX8;Q9ULD9;Q8N123;Q86TJ5;B4DXR9;Q9NZE8;Q969G2;Q9UKJ3;P61247;Q7Z340;Q9BWM5;P10075;Q9UJU3;Q9Y5K5;Q96SQ5;P18146;Q9NZL3;Q8NEA6;Q8NEK5;Q15386;P17025;P61586;Q8N2I2;Q9HBT7;Q3KQV3;Q5JVG2;Q16587;P18077;Q9NYH9;A6NJL1;Q06730;A8MTY0;Q32M78;P0CH99;Q6NSZ9;O75346;Q63HK5;Q12857;Q9NPC7;Q6P280;Q8IZC7;P62913;Q8N393;Q8N895;P61927;Q96N58;Q6P1L6;P17022;Q9BSG1;Q9NPJ8;Q6ZMW2;Q9UJY1;P61353;P17029;Q8NDX6;Q9NQV7;Q9HBT8;P62888;Q6ZMV8;Q6ZN57;Q9H7S9;P57071;O60304;Q03989;A6NEJ1;Q5JUW0;Q9HCZ1;Q9UK11;Q96JB3;Q05215;Q9BYK8;Q16670;P21673;Q92785;H3BQB6;Q15916;Q5H9K5;O15105;Q8NDW4;Q9NWS9;O75394;Q9NQ03;Q86LX8;Q9UIE0;Q92610;P82664;Q13952;P49792;Q15025;O14497;Q9UPQ4;Q9H609;P43897;P0C7V5;Q9P2J8;Q96N20;Q92784;P17021;P11137;O60447;Q96GC5;O43345;O15151;Q9NVS2;Q8NFP9;O60936;Q8N823;Q49A33;P62861;Q969S3;Q6U7Q0;O43298;Q8NI08;P36508;Q96PQ6;Q14919;Q99612;A6NKS

3;Q6AW86;Q9H4D5;Q6ZT77;Q9BXU3;Q8TA94;P08238;Q96N77;Q9NSJ1;A6NKF2;Q03112;O00712;O43361;Q8TF20;Q9ULV3;P17035;Q9BYC9;Q9NR09;P17010;P35268;Q8NAF0;P23396;P39023;P63000;Q96EP0;Q86UQ0;Q8NHY6;Q8IW36;Q92990;Q9H0W8;Q9UNY5;Q499Z4;Q9UKN5;Q15973;Q9Y2R9;Q8IZP0;P32969;Q8NC26;Q13405;Q52M93;O43296;Q86WZ6;Q9NZ52;Q8TF47;Q8IZ20;Q9C0F3;Q13015;Q9UBU9;O00110;Q9Y6D5;P52742;P08047;Q9UEG4;P24278;A6NFI3;Q076021;P62701;P07900;Q9NZV7;Q8N972;Q9UK10;Q9P0M2;Q8N488;Q96MN9;Q8M141;Q9UHF7;Q9H582;P05386;Q96KR1;Q14593;Q5TEC3;Q6IQ32;Q9UJY5;Q01658;Q08ER8;P17032;P49711;Q8TD23;Q9HC78;P22090;Q4LE39;P16415;Q9BYD6;Q5HY98;Q9Y2L8;P84098;Q9Y3B8;Q8TAT5;P17017;Q9BYD2;Q9P0L1;P52744;P26373;Q71UM5;Q8TF50;Q3ZCT1;Q9UQR1;P35637;Q9H4Z2;Q7Z3K3;O95361;Q96CX3;Q9BR84;Q9H963;P46777;P05388;P62979;P17020;Q9BWT7;Q96NL3;Q8NCA9;P17039;Q8TBC5;Q02447;Q8TF32;Q6ZSS3;P35789;Q95793;Q8N554;Q9H8N7;P17030;Q96IT1;Q9HCL3;O14771;Q8N7Q3;Q8IVC4;Q68DY9;P0CJ79;Q9Y4X4;A6NKF7;Q14893;Q9HML3;Q96HQ0;Q02930;O94903;P62899;P17028;Q96GC6;P51523;Q7L2R6;Q12996;Q96AQ7;P82933;Q8N8J6;O43167;P58317;Q6P9G9;O43294;Q9NYJ8;Q8NBF1;Q96NJ3;Q9NRR4;O60281;Q9HA38;Q6ZQV5;Q96JM3;Q9H8V3;P82675;Q96MU6;Q9BYN7;Q9H165;Q7Z3V5;Q9Y6R6;Q9GZX5;Q8N782;Q6ZNG1;P39019;Q92901;P05387;Q92804;Q86XU0;Q06732;Q6ZR52;O15392;Q5MCW4;Q14872;Q9C035;Q5FWF6;Q9UDV6;Q15937;Q6P9A1;P60520;Q13485;Q86UZ6;Q9Y4R8;Q8TAQ5;P25208;Q9Y5A6;Q9H707;P42766;Q8IWY8;Q15633;Q13129;P60953;Q8TF45;P60866;O15535;Q13489;Q8TF39;Q9BSK1;Q15022;Q5HYK9;Q9H116;Q2M1K9;O14709;P98171;Q15652;O60869;Q9684;Q9ULD5;Q8N8L2;O75373;Q8N587;Q96N38;Q9BY31;Q8N4W9;Q8IXS8;Q96MR9;A6NM28;Q16384;P36405;Q14592;Q86V71;Q03923;Q8NDH3;Q9Y2P7;Q9HOR8;Q0D2J5;Q7Z7L9;P30304;O60315;Q8IZ26;Q8NA42;Q15797;Q13422;Q9UNX3;Q09FC8;Q8NDQ6;Q5TB30;P43243;Q8N859;Q9UHD4;Q9H0F6;P51786;Q15928;Q95218;O43823;Q8IX07;Q9BX82;Q86Y25;Q9UL36;Q96BR6;Q9BRR0;Q969Q0;O60293;P61513;A6NDX5;Q9HCM9;Q96C28;Q8IY57;Q9UPP2;Q96NJ6;P0C7X2;O75362;P98169;Q6IQ21;Q9HCE3;P41208;Q99676;P37275;Q8IYM9;O60678;Q9BXW6;Q4V348;P0CG31;Q9H7X3;Q6PK81;Q9UPG8;Q6ZN11;A6NKH3;Q9NQX6;Q96LW9;O14617;O14901;Q96CA5;Q2QGD7;Q8NEM1;Q6ZN79;P17097;P17040;Q3SXZ3;O95625;P62277;Q9UKD2;O94906;Q8NDP4;Q2M3X9;A4D1E1;P42575;Q9UKT9;Q5VTD9;P52747;P0C6E6;Q53GI3;Q9H0M5;Q14134;Q9C0G0;Q5EBL2;P46776;Q9UBR4;P51814;Q6XZF7;Q8NFD5;Q9H9J2;P51815;P21506;A8MT65;Q9UL33;Q96H86;P62906;Q70YC5;Q8WV44;Q8TBZ8;Q9NYW8;P52746;P63173;Q9ULM2;Q3ZCX4;P0CG24;B2RXF5;P01011;Q8NBB4;Q9H8W5;Q14584;P60006;Q6DD87;O15198;Q14585;Q96K83;Q9P0T4;Q7Z6Z7;O15015;Q17R26;Q14865;Q8N184;Q9H2P0;Q9Y2R5;Q9BYX4;Q14526;O75335;Q7RTT5;Q9NV72;Q96GE5;Q9UFB7;O60543;P14373;Q6AZW8;Q00987;Q13106;Q9Y473;P62891;Q6NX45;P49247;P22269;Q8NCP5;Q6ZNX5;Q5T619;Q9GZV8;Q96SZ4;Q9GZ87;Q8TF68;Q08AN1;Q86XN6;P62753;Q9H6B1;Q8TCN5;P08151;Q13118;Q15929;Q13424;Q5JVG8;Q6ZN55;P46779;Q5VV52;Q9NTW7;Q6ZNG0;P17038;Q9BYM8;A6NN14;P15822;Q8NB42;Q15776;Q66K89;Q8NCK3;Q68DI1;Q6PG37;Q13105;P63220;P0CG00;P52736;A8MVS1;Q3JNZ5;Q96K58;Q9UGR2;P15880;B4DX44;Q8WYQ5;Q96RE9;Q494X3;Q7RTT6;Q96PM9;Q14119;P17014;P23528;Q9NU63;Q92618;Q96EH5;Q8NEP9;Q96ME7;Q9C029;Q8TAU3;P25398;Q8IYB9;Q6ZNA1;P08708;O75674;Q15935;Q96B54;Q7L945;Q9HCS7;Q9UL40;O75820;Q96SR6;Q8TDD2;O95071;P02533;Q7Z2E3;Q2M218;Q14929;Q8TD17;P11142;Q9NRM2;Q53FT3;P61970;Q96ND8;O00273;Q96LW1;Q9NQS1;P47914;Q6EKJ0;O95714;Q6P3V2;O15235;Q92560;Q12906;Q8NAP3;Q9P255;Q8TAW3;P62847;Q9Y2A4;O14978;Q9H8G1;Q66K41;A8MWA4;Q6ZNO8;Q9BV97;P61254;Q8IVP9;P0CJ78;A8MUV8;P51504;Q99856;P58304;P82912;Q96RL7;Q3KP31;O60224;Q6ZMS7;Q96EG3;Q5SVQ8;P17098;Q8N3C0;Q9UJW7;P0C100;Q5T0B9;Q16600;P17041;Q9HCK0;Q96NG5;Q96JM2;O15014;Q15428;O60290;Q96NG8;Q7RTT4;P0DI81;P42677;Q9UKY1;P17036;Q68CP9;Q8TBZ5;Q8N1W2;Q01954;Q9Y2H8;Q9H063;Q9Y2K1;P52815;P24385;Q13360;P19474;O15060;Q9Y281;P62249;Q2M3W8;Q86YE8;P82921;Q59GN2;Q9Y2Y4;Q9H7R5;Q9H9D4;Q6ZNI9;Q13490;Q03938;Q9Y3U8;Q8N8C0;O43830;Q9HAH1;P62917;O75155;P56270}

5635

Pathogen[ P03363] interacts with 1007 human

partners: {A2RRD8;Q53FT3;Q86TJ5;Q49AA0;Q9NQX1;Q16587;Q9UJX2;Q7RTS1;Q86VP1;Q504Q3;Q5JUW0;Q15020;P62913;Q86XU0;Q15911;Q9Y5A6;Q9P0L1;Q8NB42;A8MQ14;Q5VTD9;P41227;O75123;Q9C0F3;Q9BQ50;Q8NHY6;Q5T0B9;P13682;O75820;Q3KNS6;Q99684;A4D1E1;Q03923;P43897;P02533;Q6P9A3;Q8NCK3;Q9Y2R5;Q13490;Q6ZMY9;P35789;O14901;O75373;Q5SVQ8;P98168;Q9H8N7;Q9BYD2;P11137;P08048;O75335;P18621;Q13105;A6NKF2;Q8IZP0;O75159;O75081;P17027;P0CH99;P05386;Q5VUA4;Q9NSD4;Q03989;Q8N9F8;O94972;Q86V71;Q6IQ21;Q8NHW5;Q99592;Q8N1G0;Q9H963;Q9UJQ4;Q99909;P62750;Q969J2;Q8N988;O00273;Q9UHF7;P29374;P23396;Q8N2I2;Q96LW1;P28698;Q8IZC7;O60543;Q9H4D5;P42677;Q8NE65;Q96AQ7;Q96N22;Q9NQZ8;P63173;Q6DD87;P08865;Q8TAQ5;Q86UA1;Q92766;Q03924;Q8WXX3;Q6ZNA1;Q96GC5;Q9UNH7;Q14929;Q9Y5K5;Q9NQX6;Q7Z340;Q14938;B4DU55;Q8N859;P07900;O14978;Q6ZNO6;Q86W11;P62847;Q8NA42;Q14865;Q96NS5;P18077;Q8TB45;Q9N2L3;Q9NQS1;P15438;P82664;Q9Y2D9;Q8NAP3;P17021;P17010;Q8IVP9;O43296;O14771;P05387;O95780;Q86VK4;A6NKF7;P52738;Q9NUA8;Q6NSZ9;Q12901;O60481;P18146;Q13360;O00712;Q6ECI4;P84098;P42766;Q6P2D0;Q8NEK5;Q02386;Q5VV41;Q96JC4;O60315;Q02930;O60224;Q9NZE8;P98169;Q9P2J8;P62249;Q86UP3;Q9C000;Q9HAU4;Q96T92;P0CG31;Q99676;Q3ZCT1;Q96V95;P82921;Q9C0A1;Q14526;P05388;A6NHJ4;Q9Y4R8;Q96MX3;Q9UJY4;P61970;P14373;Q9H707;Q96NG8;Q9UC06;Q96SE7;P49406;Q9BRR0;P0DI81;P08151;Q7L3S4;Q9H7S9;Q96K62;Q9NS39;Q96JF6;Q14590;P62753;Q86UE3;P17098;Q08AN1;Q15928;Q8WV37;Q7Z398;Q68EA5;O15015;Q9UKN5;Q96SR6;Q96EP0;Q9ULM2;Q02447;P08651;P62081;Q96ND8;A6NKH3;Q8N3J9;Q9ULJ3;P62910;Q15022;Q13952;Q92990;Q6PG37;O43167;Q6ZR52;Q9HCS7;Q5EBL2;P0CG00;Q96NJ6;Q03112;Q9UEG4;Q9HAH1;Q9BWW7;Q6NX49;Q9Y2P0;P61513;P46776;O75346;O60281;Q9HBT8;Q9UPP2;Q9NRF9;Q13405;P37275;Q969W8;Q8TDD2;Q8NDW4;P35637;Q13283;Q9BU19;Q9ULT8;Q9H2P0;Q9NX65;P82914;Q7RTV3;Q8N720;Q9GZR2;O95600;Q96LX8;P61254;Q9P0J6;P62273;O60784;Q99856;P17024;Q15929;Q6ZQV5;P32969;Q7RTS3;Q92901;Q9NYJ8;Q9P243;Q494X3;Q9NZ52;Q3SXZ3;P46778;Q96MR9;Q95793;Q8NCP5;Q5HYK9;Q5T1R4;Q9UL59;P25490;Q9NVS2;Q6EKJ0;Q9NUL3;O95201;Q9Y3D5;P61927;Q9P215;O60765;Q5T5D7;Q16384;Q9Y6X8;Q8NDQ6;Q9HCL3;O14497;O60447;Q8TCN5;Q8N883;P62891;Q9Y462;E7ETH6;P15621;Q8NBB4;Q6P9A1;P17030;Q9UC07;Q8N8C0;Q9UL33;Q08AG5;P52815;Q0D2J5;Q15776;A6NGD5;Q9Y2L8;Q96HQ0;Q8WV28;Q9UHK0;Q96MU6;Q68DI1;Q5JVG2;Q5SXM1;Q8WV44;Q9UDV7;A8MTY0;Q3KP31;P17031;Q8N680;Q6P5R6;Q5JT82;Q9Y6K9;Q8NKN2;Q9H063;P58304;Q99612;Q59GN2;Q8N141;Q96V15;Q9UJY1;Q6ZNI5;Q8N488;P61353;Q9N9J7;Q66K89;Q8IVW6;Q4LE39;P98171;O75437;Q76KX8;Q13015;Q9UL40;O60293;O15151;Q5F1R6;Q9H9J2;Q96A35;Q9UPN9;Q8N9Z0;Q9Y467;Q6NUN9;Q9UK11;Q3KQV3;O15105;Q96PQ6;Q8N782;Q5TYW1;Q9Y2A4;Q8IWY8;Q96GC6;Q15797;Q7RTT5;Q9UM63;Q9HCK0;Q9NPC7;Q9Y2K1;Q96EG3;P08708;Q6ZMV8;P36508;Q6BEB4;Q9Y2H8;P51522;O43309;P16415;Q9HCZ1;

P43268;Q9UBU9;Q9NSJ1;Q9BX82;Q9UJW7;Q14588;P41208;P17028;Q8NEA6;P15880;Q8IZ26;Q96N20;Q96L21;Q9Y2X9;Q14893;P59923;P60520;Q96MM3;P17041;Q9NWS9;Q9HCX3;Q15633;Q86YE8;Q96BV0;Q9BUG6;Q15652;Q6ZNH5;P63000;Q9Y4X4;P0CG24;Q8NI51;Q96I27;Q14593;P17019;Q7Z7K2;B4DXR9;Q9H5H4;Q05086;Q9UNY5;Q9Y6I7;B1LAPH4;Q9C040;Q9H0U6;P21673;P49711;Q9NTW7;Q7L2R6;Q8TBC5;P0DI82;Q9NZV7;Q9UK10;Q00488;Q8NCA9;Q14019;Q9P0M2;Q86VZ6;P26373;Q13127;Q8IY57;Q9Y2Y9;A6NNF4;Q9C0G0;Q7Z6Z7;P0C7X5;P17029;Q96BR6;Q6P1L6;Q5BKZ1;A6NK53;Q6IV72;P83881;P51786;Q96EH5;Q8TF45;P30304;P10072;O76021;P10911;Q03936;Q9NQ03;Q96RE9;Q6ZNI9;P15336;Q2M1K9;Q9HOR8;P17023;Q14690;Q86T29;Q9BSN8;Q8NAF0;Q96DT7;Q15937;Q92560;Q8TAT6;Q9NWU5;P22090;P15822;P0C7V5;A8MUZ8;P62861;Q2VY69;Q9UNX3;Q96JM2;A6NEJ1;O43830;O95218;Q96JM3;C9JN71;Q96LW9;Q8IYB9;Q14669;Q6ZNG9;O75394;O15226;Q8TF39;Q9BS31;Q13129;Q8N972;Q14872;Q9H0W8;P82912;Q9BYN7;Q98N58;Q9H4T2;P60006;Q14119;Q8N393;Q12906;P18583;P52737;Q96IR2;Q9UPG8;Q8N8Z8;Q8TF20;Q9ULD5;P26641;Q9GZU2;Q9NR09;P46782;Q96PU5;P35268;Q9NRX2;P51504;P21506;P24278;Q9HBT7;Q8IW36;Q12874;Q9BXW6;Q6XZF7;Q9P255;Q32MQ0;P17039;Q6PF04;Q8TAF7;Q96H40;Q5VIY5;Q9UDV6;Q5JNZ3;Q86WZ6;Q7Z2E3;Q96C28;P17032;Q8IZ20;Q9BXX1;Q9BWT7;Q9H609;Q13489;Q9UJU3;Q8N1G1;A6NDX5;Q9NXT0;P27797;O14709;Q6NX45;O95678;Q9H4Z2;P46781;P51814;P50914;Q9BSK1;P19474;Q14134;Q16670;P52736;O75155;O76075;Q5CZA5;Q8N7M2;O43541;Q9UGR2;Q9Y6Q3;P17022;O60870;Q14966;P17661;O75381;P17036;Q63HK3;Q14919;Q9Y3M9;Q9POM9;Q9Y2R9;Q86UP8;Q9BQA5;P52744;Q96SK3;Q2M218;Q15796;Q9H9L3;O75674;Q9NPJ8;P63220;P84022;Q96C00;O15265;P98170;Q6U7Q0;Q96PE6;Q8N895;Q5T619;Q9BRH9;Q8IVC4;Q7RTT3;Q9UKY1;Q8NI08;Q8TF68;Q6ZM57;P61313;P39019;P49792;Q96N77;Q6ZNG0;Q86XN6;Q9C035;Q9Y2G7;Q6ZN08;Q96IT1;Q92618;Q9BYK8;P55265;P46779;Q5T653;P46777;Q9NRR4;Q06732;Q9H0M5;Q7Z7H8;P43243;Q92664;Q8NEP9;P17025;P23528;Q7Z3I7;Q9H582;Q9UK13;Q14592;Q96CX3;P51508;O60783;Q8N184;Q6ZSB9;Q8N7K0;P0CB33;Q9BUY5;Q9H7R0;Q14591;Q86UQ0;Q14584;Q9Y2G2;Q9BS34;Q8N8L2;Q96SL8;Q9ULV3;P25398;Q9Y3Z3;Q9UKK6;P49790;A8MUV8;P78560;Q8IX06;Q7Z3K3;O95071;P09001;P82675;Q6ZMW2;O43345;Q96SZ4;Q86Y25;Q5JNZ5;B4DX44;P57071;Q6ZNG1;Q01954;Q15697;Q6ZN79;O95125;Q8N823;Q9H0H0;Q7RTT4;O75382;Q15386;O60936;Q6ZSS3;P82933;Q8NC26;O60869;P24385;Q14585;P52740;P51523;Q14587;P2280;P56270;Q9NPA5;Q01844;Q96NG5;O00308;Q71UM5;Q9Y3U8;P62888;P49910;Q6AZW8;Q5JU85;Q5TB30;P17014;Q96GE5;Q9Y2Y4;O75362;Q92670;Q9UL58;Q13485;Q15072;P10074;Q92804;Q9H0F6;Q8TD23;Q9Y6R6;O95714;Q96RL7;Q9UJN7;Q969Q0;P98182;Q6ZS27;Q63HK5;Q5HY98;O60225;A8K8V0;Q9Y676;Q9UQR1;Q2QGD7;Q8IYN0;Q8TB69;Q16385;Q96JL9;Q70YC5;Q9NYT6;P17020;P62244;P62277;Q3MIS6;Q9BR84;Q9HCM9;P62906;Q8TF47;Q15025;A6NP11;Q7Z5H3;Q3SY52;O43361;Q96CA5;Q9H7X3;Q9BSG1;Q09FC8;Q9UK12;Q15973;P62266;Q9BYX4;Q86XF7;Q96MN9;Q6IQ32;P17017;Q96K58;O94906;Q9H116;O60304;Q8TAU3;P49207;C9JBD0;P62241;Q5H9K5;Q15428;Q13398;Q9UKT9;Q53GI3;Q7Z2F6;Q86UD4;B2RFX5;Q9UKF7;Q147U1;Q9NR11;P58317;Q6DN90;Q9UKD2;Q6AW86;Q8IYX0;P60866;Q6P280;Q8NDP4;P61247;Q7L945;Q5EBM4;Q9UNA4;Q8TC21;A8MXY4;Q8NB50;Q9UFF9;Q52M93;Q9Y3D3;Q8N9K5;Q66K41;Q96N95;Q6WXB4;Q9UQN3;P52741;P62899;Q9NR33;Q8WTR7;Q9HCG1;P62857;Q9Y2Q1;Q8WW38;Q499Z4;Q9BY31;Q8NFD5;Q96NJ3;Q68DY9;Q02878;P52743;Q8TAW3;P08047;Q9NPP4;Q5TEC3;A8MVS1;P46013;Q9UKJ3;Q9H0M0;O00192;Q9HC78;Q2M3X9;P15622;Q86YF9;Q8N5C8;O60290;Q9Y6D6;Q96KR1;O75626;P0C7X2;P52742;Q07020;Q6ZRF7;P0C6E6;Q9H9D4;Q6P3V2;Q2M3W8;Q5MCW4;P39023;Q15935;A6NFI3;O43298;Q9BWM5;Q9BQ48;O43829;Q8N1W2;Q01658;Q9BWU0;Q8N8J6;Q8N587;Q92922;Q9NUQ6;Q9UL36;P17544;Q8IYI8;P30307;P17040;O94892;Q0VGE8;Q9HCE3;Q96BR9;Q05481;P62854;P0CJ78;O15060;Q8N6I1;Q96PM9;Q68CP9;Q9Y399;Q08211;O95625;O14641;Q9P2F9;O15235;Q96K75;Q9UJY5;Q5FWF6;O43734;P62917;Q7Z2W9;Q9UIH9;Q9NXW8;O95251;P51815;Q9UID6;Q96CS4;Q3MJ62;Q05516;A6NJL1;Q3ZCX4;Q8TBZ5;A8MT65;P60953;Q13106;Q9GZX5;Q99717;Q9BYC9;Q8TF50;P08238;P17038;P0CJ79;Q6P9G9;P25208;Q12857;Q96NI8;Q8TF32;Q6ZMS7;Q9P0T4;Q8WYQ5;Q9H4I2;P27986;Q32M78;Q9BV97;Q969S3;P27635;O15198;P62263;Q96NL3;Q9Y473;Q9GZN7;Q17R26;Q8NEM1;Q3KNW1;Q9NXV6;P04792;P52746;Q9ULX6;Q05215;Q9UII4;P47914;Q9UII5;Q9BZE0;Q9BTV5;P62701;P11166;Q9P2Y4;Q08ER8;Q4V348;Q9UJL9;Q96FS4;Q8IZH2;Q49A33;Q9NV72;Q96N38;Q06730;Q9UIE0;Q9H8G1;Q12996;Q02446;Q9UJW8;O14628;Q8NBF1;A6NN14;Q8TD47;O75528;Q9NZM5;P11142;Q68DY1;Q9BYD6;Q5T447;Q7Z3V5;Q8N7Q3;Q9BZJ0;Q8TBZ8;P10073;Q8NF99;O75290;P62269;Q3YEC7;O75569;Q9NQ94;P05937;Q9NR83;O15535;Q6ZT77;A8MWA4;Q8N3C0;Q9P2A4;O75467;Q13424;P52747;Q13118;Q96SQ5;P17035;Q8N0Y2;Q8N4W9;A6NM28;Q92785;Q6PK81;Q13401;Q9UFB7;Q9HAZ2;Q96H86;Q8TA94;Q5JVG8;Q03938;Q7RTT6;Q16600;P11161;Q9Y2P7;P52756;Q9Y281;Q9H7R5}

5636 [Cluster 513]GO:0005825+C cellular\_component [name] half bridge of spindle pole body [def] "Structure adjacent to the plaques of the spindle pole body." [ISBN

5637 Pathogen[ Q2Q067] interacts with 3 human partners:{Q53HL2;O75154;Q96EK4}

5638 Pathogen[ P0C214] interacts with 3 human partners:{Q53HL2;Q96EK4;O75154}

5639 Pathogen[ P03346] interacts with 4 human partners:{Q96EK4;Q53HL2;Q9H4Z3;O75154}

5640 Pathogen[ Q85601] interacts with 3 human partners:{O75154;Q96EK4;Q53HL2}

5641 Pathogen[ P14079] interacts with 4 human partners:{Q9H4Z3;Q53HL2;Q96EK4;O75154}

5642 Pathogen[ P03383] interacts with 3 human partners:{Q96EK4;Q53HL2;O75154}

5643 Pathogen[ P03410] interacts with 4 human partners:{O75154;Q53HL2;Q96EK4;Q9H4Z3}

5644 Pathogen[ P14075] interacts with 3 human partners:{Q53HL2;O75154;Q96EK4}

5645 Pathogen[ P0C206] interacts with 4 human partners:{O75154;Q9H4Z3;Q53HL2;Q96EK4}

5646 Pathogen[ P03363] interacts with 3 human partners:{Q96EK4;Q53HL2;O75154}

5647 [Cluster 514]GO:0048188+C cellular\_component [name] Set1C/COMPASS complex [def] "A conserved protein complex that catalyzes methylation of histone H3. In Saccharomyces the complex contains Shglp, Sdclp, Swd1p, Swd2p, Swd3p, Sp1lp, Bre2p, and the trithorax-related Setlp\_ in mammals it contains the catalytic subunit (SETD1A or SETD1B), WDR5, WDR82, RBBP5, ASH2L/ASH2, CXXC1/CFP1, HCF1 and DPY30." [PMID

5648 Pathogen[ Q2Q067] interacts with 4 human partners:{Q9C005;Q9P0U4;P51610;Q9UBL3}

5649 Pathogen[ P0C214] interacts with 2 human partners:{P51610;Q9C005}

5650 Pathogen[ P03346] interacts with 5 human partners:{Q9C005;Q15291;P51610;Q9UBL3;Q9P0U4}

5651 Pathogen[ Q85601] interacts with 4 human partners:{P51610;Q9UBL3;Q9P0U4;Q9C005}

5652 Pathogen[ P14079] interacts with 4 human partners:{Q9C005;Q9UBL3;P51610;Q9P0U4}

5653 Pathogen[ P03383] interacts with 2 human partners: {P51610;Q9C005}

5654 Pathogen[ P03410] interacts with 3 human partners: {P51610;Q9P0U4;Q9C005}

5655 Pathogen[ P14075] interacts with 2 human partners: {P51610;Q9C005}

5656 Pathogen[ P0C206] interacts with 4 human partners: {Q9P0U4;Q9C005;P51610;Q9UBL3}

5657 Pathogen[ P03363] interacts with 7 human partners: {Q15291;Q9UBL3;Q9P0U4;O15047;Q9C005;Q9UPS6;P51610}

5658 [Cluster 515]GO:0000790+C cellular\_component [name] nuclear chromatin [def] "The ordered and organized complex of DNA, protein, and sometimes RNA, that forms the chromosome in the nucleus." [GOC

5659 Pathogen[ Q2Q067] interacts with 41 human partners: {P18754;P49959;Q9UNSL1;P48380;O14813;Q9HC52;P51531;Q96T88;O00273;Q7Z2E3;O95931;P54198;P17676;P11831;P15172;P35227;Q96QC0;P61978;P63146;Q92769;O14497;Q9BQ90;O95644;P51532;Q7Z3K3;O60885;Q9BVW5;Q13761;P49459;Q9P1Z2;Q92793;Q86U70;Q8IY92;Q6STE5;P42226;O75376;Q8IXJ9;Q96FF9;Q02078;P17947;O76075}

5660 Pathogen[ P0C214] interacts with 42 human partners: {P54198;Q7Z3K3;O14813;Q13761;P35227;P49959;O14497;P42226;Q92793;Q9BVW5;P15172;P17947;P11831;O95931;Q6STE5;P49459;Q96FF9;P17676;Q96T88;Q02078;O00273;Q8IXJ9;Q86U70;Q7Z2E3;Q92769;Q9UNSL1;O75376;P05412;O60885;P48380;Q8IY92;Q9P1Z2;O95644;P16220;P51531;P18754;O76075;Q9HC52;P63146;Q96QC0;P51532;Q9BQ90}

5661 Pathogen[ P03346] interacts with 49 human partners: {Q7Z3K3;P05412;P61978;Q02078;Q86U70;Q15788;O14813;P16220;Q9H2W2;Q96FF9;P17676;P11831;Q96QC0;P51532;P48380;Q9HC52;P15172;Q9UNSL1;O95931;P35227;P42226;P18754;P49459;O95644;Q13351;Q9BQ90;Q86SE8;P17542;P63146;Q92769;Q9P1Z2;Q6STE5;Q13761;O14497;O75376;P49959;Q9NQ03;O76075;O60885;P17947;Q7Z2E3;Q8IXJ9;Q92793;P51531;Q8IY92;Q9BVW5;P54198;Q96T88;O00273}

5662 Pathogen[ Q85601] interacts with 44 human partners: {P61978;P54198;P11831;Q02078;P17676;P63146;O14813;P15172;Q6STE5;Q86U70;Q86SE8;O95931;Q8IXJ9;O14497;P49959;O76075;O95644;P51531;Q7Z3K3;P51532;Q8IY92;Q9BQ90;Q92769;P16220;P42226;O00273;P05412;Q96T88;O75376;P49459;O60885;Q96QC0;P18754;P17947;Q7Z2E3;Q92793;P48380;Q9P1Z2;Q96FF9;Q9HC52;Q9BVW5;P35227;Q13761;Q9UNSL1}

5663 Pathogen[ P14079] interacts with 43 human partners: {Q9BQ90;O76075;Q02078;Q6STE5;Q96QC0;Q8IXJ9;Q92793;Q9HC52;Q96FF9;Q7Z3K3;Q86U70;P48380;P51532;O95644;O95931;P54198;P51531;O14497;P42226;Q92769;P49459;Q15788;Q13351;Q9NQ03;P61978;P35227;O75376;Q96FC9;O60885;P15941;Q13761;P52701;P05412;O14813;Q9UNSL1;Q9P1Z2;Q7Z2E3;P63146;P18754;P07305;Q8IY92;O00273;Q9BVW5}

5664 Pathogen[ P03383] interacts with 39 human partners: {P35227;Q9UNSL1;Q8IXJ9;Q7Z2E3;Q13761;P11831;O14497;Q9BVW5;P16220;P15172;O75376;Q86U70;O95644;Q6STE5;P48380;Q9HC52;O95931;P42226;P61978;O00273;P18754;Q92769;P17676;Q7Z3K3;P51531;Q96FF9;Q8IY92;O60885;Q96QC0;P49459;P51532;P63146;P54198;Q9BQ90;P17947;Q9P1Z2;Q92793;Q02078;P05412}

5665 Pathogen[ P03410] interacts with 45 human partners: {O14813;P49959;Q86SE8;P11831;P54198;Q96QC0;P61978;O60885;P17676;P17947;O14497;P15941;O76075;Q9BVW5;O95931;O00273;P49459;O75376;P35227;Q7Z2E3;O95644;Q9P1Z2;Q92793;P52701;Q92769;Q8IY92;Q8IXJ9;Q86U70;P63146;P48380;P16220;P51532;P05412;P42226;P51531;Q13761;Q9UNSL1;Q02078;Q7Z3K3;Q96FC9;Q96FF9;P18754;Q6STE5;Q9BQ90;Q9HC52}

5666 Pathogen[ P14075] interacts with 39 human partners: {Q7Z2E3;Q86U70;O00273;Q8IXJ9;P05412;P42226;P11831;Q96QC0;P51532;P49459;P48380;P15172;O95931;P54198;Q96FF9;O14497;Q9BVW5;O75376;Q92769;P51531;Q9HC52;P17947;Q9P1Z2;P61978;Q02078;O60885;Q92793;Q9UNSL1;P18754;P16220;P63146;P17676;Q6STE5;Q7Z3K3;Q8IY92;O95644;P35227;Q9BQ90;Q13761}

5667 Pathogen[ P0C206] interacts with 47 human partners: {Q9UNSL1;Q92769;P49959;Q9HC52;P51532;Q02078;P16220;P18754;P52701;P51531;O76075;P61978;Q6STE5;P05412;P54198;Q9P1Z2;P48380;Q92793;Q96FF9;Q9NQ03;O14497;Q8IXJ9;Q9BVW5;P17676;O14813;P49459;O60885;Q96T88;O95931;Q7Z3K3;P17947;Q86SE8;O75376;P11831;Q9BQ90;P42226;P15172;Q96QC0;Q86U70;O95644;Q8IY92;Q15788;Q7Z2E3;O00273;Q13761;P63146;P35227}

5668 Pathogen[ P03363] interacts with 44 human partners: {Q86U70;Q8IXJ9;O00273;P54198;P17676;P49459;Q6STE5;P35227;Q9HC52;Q96QC0;P17947;P51532;Q9H2W2;O14497;O75376;P16220;P63146;P42226;Q9NQ03;O60885;Q9BQ90;P11831;Q7Z2E3;Q9P1Z2;Q9BVW5;O76075;O95931;Q9UNSL1;Q7Z3K3;Q8IY92;Q92793;O95644;Q96T88;P61978;P05412;Q86SE8;Q96FF9;P48380;Q13761;P51531;P18754;P15172;O14813;Q02078}

5669 [Cluster 516]GO:0045171+C cellular\_component [name] intercellular bridge [def] "A direct link between the cytoplasms of sister cells that allows cells to communicate with one another. Germline intercellular bridges facilitate the passage of cytoplasmic components between cells during development. Intercellular bridges have also been found connecting somatic cells." [PMID

5670 Pathogen[ Q2Q067] interacts with 3 human partners: {Q02241;Q53EZ4;O95613}

5671 Pathogen[ P0C214] interacts with 3 human partners: {Q02241;Q53EZ4;O95613}

5672 Pathogen[ P03346] interacts with 3 human partners: {Q53EZ4;Q02241;O95613}

5673 Pathogen[ Q85601] interacts with 3 human partners: {Q53EZ4;Q02241;O95613}

5674 Pathogen[ P14079] interacts with 3 human partners: {Q02241;O95613;Q53EZ4}

5675 Pathogen[ P03383] interacts with 3 human partners: {Q02241;O95613;Q53EZ4}

5676 Pathogen[ P03410] interacts with 3 human partners: {Q53EZ4;O95613;Q02241}

5677 Pathogen[ P14075] interacts with 3 human partners: {Q02241;Q53EZ4;O95613}

5678 Pathogen[ P0C206] interacts with 2 human partners: {Q02241;O95613}

5679 Pathogen[ P03363] interacts with 3 human partners: {O95613;Q02241;Q53EZ4}

5680 [Cluster 517]GO:0030904+C cellular\_component [name] retromer complex [def] "A

conserved multimeric membrane-associated complex involved in retrograde transport from endosomes to the Golgi apparatus. For example, the budding yeast retromer comprises Vps35p, Vps29p, Vps26p, Vps5p, and Vps17p." [PMID

5681 Pathogen[ Q2Q067] interacts with 3 human partners:{Q4G0F5;O14972;O75436}

5682 Pathogen[ P0C214] interacts with 3 human partners:{O75436;O14972;Q4G0F5}

5683 Pathogen[ P03346] interacts with 4 human partners:{Q4G0F5;O14972;Q9Y5X2;O75436}

5684 Pathogen[ Q85601] interacts with 3 human partners:{O14972;Q4G0F5;O75436}

5685 Pathogen[ P14079] interacts with 4 human partners:{Q4G0F5;Q9Y5X2;O14972;O75436}

5686 Pathogen[ P03383] interacts with 2 human partners:{O14972;O75436}

5687 Pathogen[ P03410] interacts with 4 human partners:{O14972;O75436;Q4G0F5;Q9Y5X2}

5688 Pathogen[ P14075] interacts with 2 human partners:{O75436;O14972}

5689 Pathogen[ P0C206] interacts with 3 human partners:{Q4G0F5;O14972;O75436}

5690 Pathogen[ P03363] interacts with 3 human partners:{O75436;O14972;Q4G0F5}

5691 [Cluster 518]GO:0044299+cellular\_component [name] C-fiber [def] "The axon of a dorsal root ganglion cell that are responsive to pain and temperature. C-fibers are small in diameter (0.2-1.5 um) and unmyelinated." [NIF\_Subcellular

5692 Pathogen[ Q2Q067] interacts with 1 human partners:{P41219}

5693 Pathogen[ P0C214] interacts with 1 human partners:{P41219}

5694 Pathogen[ P03346] interacts with 1 human partners:{P41219}

5695 Pathogen[ Q85601] interacts with 1 human partners:{P41219}

5696 Pathogen[ P14079] interacts with 1 human partners:{P41219}

5697 Pathogen[ P03383] interacts with 1 human partners:{P41219}

5698 Pathogen[ P03410] interacts with 1 human partners:{P41219}

5699 Pathogen[ P14075] interacts with 1 human partners:{P41219}

5700 Pathogen[ P0C206] interacts with 1 human partners:{P41219}

5701 Pathogen[ P03363] interacts with 1 human partners:{P41219}

5702 [Cluster 519]GO:0000123+cellular\_component [name] histone acetyltransferase complex [def] "A protein complex that possesses histone acetyltransferase activity." [GOC

5703 Pathogen[ Q2Q067] interacts with 8 human partners:{Q6IE81;Q96EZ8;Q9UNL4;P51610;Q92831;Q7Z3B3;Q92830;Q92793}

5704 Pathogen[ P0C214] interacts with 9 human partners:{P51610;Q92793;Q9UNL4;O95251;Q4LE28;Q6IE81;Q92831;Q92830;Q96EZ8}

5705 Pathogen[ P03346] interacts with 12 human partners:{Q9UNL4;Q96EZ8;P51610;Q92831;Q4LE28;Q92830;Q7Z3B3;O95251;Q6IE81;Q9H7Z6;Q92793;A0AUZ9}

5706 Pathogen[ Q85601] interacts with 10 human partners:{O95251;Q9H7Z6;Q9UNL4;Q92831;P51610;Q92830;Q6IE81;Q4LE28;Q92793;Q96EZ8}

5707 Pathogen[ P14079] interacts with 11 human partners:{A0AUZ9;Q92830;Q92793;O95251;Q9UNL4;Q6IE81;P51610;Q7Z3B3;Q9P2N6;Q96EZ8;Q9H9L4}

5708 Pathogen[ P03383] interacts with 9 human partners:{Q92831;O95251;Q4LE28;Q9UNL4;P51610;Q92830;Q6IE81;Q96EZ8;Q92793}

5709 Pathogen[ P03410] interacts with 13 human partners:{Q92830;Q92831;Q9P2N6;P51610;O95251;Q9UNL4;Q9H9L4;Q92793;A0AUZ9;Q4LE28;Q96EZ8;Q7Z3B3;Q6IE81}

5710 Pathogen[ P14075] interacts with 11 human partners:{Q92831;P51610;Q7Z3B3;Q96EZ8;A0AUZ9;Q6IE81;Q4LE28;O95251;Q9UNL4;Q92793;Q92830}

5711 Pathogen[ P0C206] interacts with 14 human partners:{Q92830;O95251;Q9H9L4;Q92831;Q92793;Q96EZ8;A0AUZ9;P51610;Q6IE81;Q9P2N6;Q7Z3B3;Q9UNL4;Q9H7Z6;Q4LE28}

5712 Pathogen[ P03363] interacts with 10 human partners:{Q6IE81;Q4LE28;Q92831;Q9UNL4;Q92830;Q7Z3B3;Q96EZ8;Q92793;O95251;P51610}

5713 [Cluster 520]GO:0005911+cellular\_component [name] cell-cell junction [def] "A cell junction that forms a connection between two cells\_ excludes direct cytoplasmic junctions such as ring canals." [GOC

5714 Pathogen[ Q2Q067] interacts with 14 human partners:{Q9Y2J2;O75161;Q14160;Q9H307;P11166;Q99569;Q96IF1;Q12959;Q07157;Q5TCQ9;Q86SQ7;Q86U70;Q9NUP9;O60716}

5715 Pathogen[ P0C214] interacts with 10 human partners:{O75161;O60716;Q5TCQ9;Q9H307;P11166;Q86U70;Q12959;Q14160;Q86SQ7;Q07157}

5716 Pathogen[ P03346] interacts with 24 human partners:{Q969H4;Q86U70;Q99569;O60716;Q5TCQ9;Q68CZ1;Q9H307;Q96IF1;P55196;Q8TEW0;O75161;Q9NUP9;Q86SQ7;Q9Y4G6;Q07157;P11166;O00522;Q9Y2J2;Q8N157;Q9HAP6;Q14160;Q9H8V3;Q9NP85;Q12959}

5717 Pathogen[ Q85601] interacts with 14 human partners:{Q99569;O75161;Q9Y2J2;Q9NUP9;Q86U70;Q9H307;O60716;Q86SQ7;P11166;Q14160;Q5TCQ9;Q07157;Q96IF1;Q12959}

5718 Pathogen[ P14079] interacts with 28 human partners:{O75161;Q9Y2J2;Q9P266;Q07157;Q8N157;Q68CZ1;Q86U70;Q9NP85;P11166;Q9Y4G6;Q9H307;O00501;Q8TEW0;Q9NUP9;Q16586;Q96IF1;Q99569;Q9H8V3;Q9HAP6;Q9BQJ4;Q969H4;Q86SQ7;Q99439;Q16625;Q9UEY8;O15259;O60716;O00522}

5719 Pathogen[ P03383] interacts with 8 human partners:{O60716;Q14160;Q86U70;Q07157;Q86SQ7;Q5TCQ9;Q9H307;O75161}

5720 Pathogen[ P03410] interacts with 32 human partners:{Q9UEY8;P11166;O15259;Q12959;Q5TCQ9;O00501;O60716;O75161;Q9NUP9;Q14160;Q9NP8



5;Q969H4;Q9HAP6;Q9BQJ4;Q96IF1;Q99439;Q07157;Q9Y2J2;Q8N157;Q86U70;Q15049;Q9P266;Q86SQ7;Q9Y4G6;O00522;Q16625;Q8TEW0;Q9H8V3;Q68CZ1;Q15517;Q9H307;Q99569}

5721 Pathogen[ P14075 ] interacts with 10 human partners:{Q9H307;Q9P266;Q86U70;Q9Y2J2;Q14160;Q07157;Q86SQ7;Q5TCQ9;O75161;O60716}

5722 Pathogen[ P0C206 ] interacts with 23 human partners:{O60716;Q9NUP9;Q86SQ7;O75161;Q96IF1;Q5TCQ9;Q9P266;Q9H307;P11166;Q8TEW0;P55196;Q14160;Q99569;Q8N157;Q9H8V3;Q07157;Q86U70;Q969H4;Q12959;Q9NP85;Q9Y2J2;Q9BQJ4;O00522}

5723 Pathogen[ P03363 ] interacts with 19 human partners:{Q86U70;Q12959;O75161;Q14160;Q9H307;Q99569;Q07157;Q9Y4G6;Q96IF1;Q969H4;Q8N157;O00522;Q5TCQ9;O15259;Q9NUP9;Q86SQ7;O60716;Q9Y2J2;P11166}

5724 [Cluster 521]GO:0019907+C cellular\_component [name] cyclin-dependent protein kinase activating kinase holoenzyme complex [def] "A protein complex that phosphorylates cyclin-dependent kinases such as Cdc2 on Thr161 (or an equivalent residue)\_ contains a catalytic subunit and a regulatory subunit, and some examples also include an assembly factor." [GOC]

5725 Pathogen[ Q2Q067 ] interacts with 2 human partners:{Q9UHX1;P51946}

5726 Pathogen[ P0C214 ] interacts with 3 human partners:{P51946;Q9UHX1;P10809}

5727 Pathogen[ P03346 ] interacts with 2 human partners:{P51946;Q9UHX1}

5728 Pathogen[ Q85601 ] interacts with 2 human partners:{P51946;Q9UHX1}

5729 Pathogen[ P14079 ] interacts with 2 human partners:{P51946;Q9UHX1}

5730 Pathogen[ P03383 ] interacts with 2 human partners:{Q9UHX1;P51946}

5731 Pathogen[ P03410 ] interacts with 2 human partners:{P51946;Q9UHX1}

5732 Pathogen[ P14075 ] interacts with 2 human partners:{Q9UHX1;P51946}

5733 Pathogen[ P0C206 ] interacts with 2 human partners:{Q9UHX1;P51946}

5734 Pathogen[ P03363 ] interacts with 2 human partners:{P51946;Q9UHX1}

5735 [Cluster 522]GO:0030880+C cellular\_component [name] RNA polymerase complex [def] "Any complex that possesses RNA polymerase activity\_ generally comprises a catalytic subunit and one or more additional subunits." [GOC]

5736 Pathogen[ Q2Q067 ] interacts with 1 human partners:{P61218}

5737 Pathogen[ P0C214 ] interacts with 1 human partners:{P61218}

5738 Pathogen[ P03346 ] interacts with 1 human partners:{P61218}

5739 Pathogen[ Q85601 ] interacts with 1 human partners:{P61218}

5740 Pathogen[ P14079 ] interacts with 1 human partners:{P61218}

5741 Pathogen[ P03383 ] interacts with 1 human partners:{P61218}

5742 Pathogen[ P03410 ] interacts with 1 human partners:{P61218}

5743 Pathogen[ P14075 ] interacts with 1 human partners:{P61218}

5744 Pathogen[ P0C206 ] interacts with 1 human partners:{P61218}

5745 Pathogen[ P03363 ] interacts with 1 human partners:{P61218}

5746 [Cluster 523]GO:0045179+C cellular\_component [name] apical cortex [def] "The region that lies just beneath the plasma membrane on the apical edge of a cell." [GOC]

5747 Pathogen[ Q2Q067 ] interacts with 2 human partners:{P59047;Q9BT92}

5748 Pathogen[ P0C214 ] interacts with 2 human partners:{Q9BT92;P59047}

5749 Pathogen[ P03346 ] interacts with 3 human partners:{P59047;P07148;Q9BT92}

5750 Pathogen[ Q85601 ] interacts with 2 human partners:{Q9BT92;P59047}

5751 Pathogen[ P14079 ] interacts with 4 human partners:{Q587J8;P81172;Q9BT92;P59047}

5752 Pathogen[ P03383 ] interacts with 1 human partners:{Q9BT92}

5753 Pathogen[ P03410 ] interacts with 4 human partners:{P59047;Q9BT92;P81172;Q587J8}

5754 Pathogen[ P14075 ] interacts with 1 human partners:{Q9BT92}

5755 Pathogen[ P0C206 ] interacts with 2 human partners:{Q9BT92;P59047}

5756 Pathogen[ P03363 ] interacts with 2 human partners:{Q9BT92;P59047}

5757 [Cluster 524]GO:0005687+C cellular\_component [name] U4 snRNP [def] "A ribonucleoprotein complex that contains small nuclear RNA U4." [GOC]

5758 Pathogen[ Q2Q067 ] interacts with 2 human partners:{Q8WWY3;Q13838}

5759 Pathogen[ P0C214 ] interacts with 2 human partners:{Q13838;Q8WWY3}

5760 Pathogen[ P03346 ] interacts with 2 human partners:{Q13838;Q8WWY3}

5761 Pathogen[ Q85601 ] interacts with 2 human partners:{Q13838;Q8WWY3}

5762 Pathogen[ P14079 ] interacts with 2 human partners:{Q13838;Q8WWY3}

5763 Pathogen[ P03383 ] interacts with 2 human partners:{Q13838;Q8WWY3}

5764 Pathogen[ P03410 ] interacts with 2 human partners:{Q13838;Q8WWY3}

5765 Pathogen[ P14075 ] interacts with 2 human partners:{Q13838;Q8WWY3}

5766 Pathogen[ P0C206 ] interacts with 2 human partners:{Q13838;Q8WWY3}

5767 Pathogen[ P03363 ] interacts with 2 human partners:{Q8WWY3;Q13838}

5768 [Cluster 525]GO:0015629+C cellular\_component [name] actin cytoskeleton [def] "The part of the cytoskeleton (the internal framework of a cell) composed of actin and associated proteins. Includes actin cytoskeleton-associated complexes." [GOC]

5769 Pathogen[ Q2Q067 ] interacts with 50 human partners:{O15511;O75832;P07737;Q9NQW6;P35080;P30419;P27694;O14639;Q8N3V7;P55795;Q9H1B4;O43516;Q15697;Q14192;Q9P2B4;Q15542;Q6H8Q1;P29966;O00401;O15117;Q92558;O95198;P60673;P36871;P31943;Q13469;Q8N0Z2;Q8NFW9;P06396;Q9Y5B0;Q96LC9;Q00587;Q9BR76;O43918;Q9NVD7;Q9UMS6;Q16621;Q5TZA2;Q9NP98;Q9Y6D9;P42768;Q9Y2M5;Q495M9;O00165;P35579;P35606;Q9UL03;Q9BPX3;Q96DV4;Q9NPC6}

5770 Pathogen[ P0C214 ] interacts with 56 human partners:{P35080;Q9BPX3;Q8NFW9;O15117;Q15697;P29966;P68133;Q13469;Q8N0Z2;O95198;Q96DV4;Q96LC9;Q495M9;Q16621;Q16587;P35606;Q9UMS6;Q9NPC6;O14639;Q9NP98;P06396;Q15542;P55795;O75832;O43516;Q9H1B4;P36871;O00165;P26639;Q9Y2M5;Q16658;Q14192;Q86SG2;P62736;Q9P2B4;



- 5771 O43918;Q92558;P31943;P60673;Q9Y5B0;O15144;P30419;O00401;Q96GD0;P27694;Q6H8Q1;Q9NVD7;Q8N3V7;P42768;P63261;Q9UL03;Q7L5Y9;Q9Y6D9;Q5TZA2;Q9BR76;O15511}  
Pathogen[ P03346] interacts with 75 human  
partners: {O95166;Q9Y6D9;Q8N3V7;Q15542;Q16621;Q8N0Z2;P02549;Q9NQW6;O14639;O43918;O15511;Q86SG2;O15144;O43516;Q96LC9;P11277;P42768;P27694;P35579;O94875;P62736;Q9UMS6;P55795;Q00587;P31943;Q9BR76;Q08495;Q9Y5K6;Q6H8Q1;P36871;Q9H1B4;Q9Y664;O75832;Q9Y5B0;Q13469;Q9BPX3;P60673;P35080;Q14192;Q15019;Q9Y4G6;Q92558;Q9UI47;O15145;O95198;Q9Y614;Q96DV4;Q9P2B4;Q9H4Z3;P29966;Q8NFW9;Q9NVD7;O00165;Q5TZA2;Q16658;P07737;Q9UHD8;P06396;Q96KN3;P54257;O15117;Q9Y2M5;Q15697;Q9C0H9;P35606;Q16587;O00401;Q9UL03;P10916;Q495M9;Q96M02;Q9Y573;Q9UBF9;Q9NP98;Q9NPC6}
- 5772 Pathogen[ Q85601] interacts with 60 human  
partners: {O00401;O14639;Q96M02;O15511;Q15542;Q96LC9;Q8NFW9;P68133;Q9NVD7;P06396;P26639;Q9NQW6;O00165;Q86SG2;Q92558;Q9Y5K6;O95166;Q16621;P35579;O75832;P35080;Q9UMS6;Q7L5Y9;Q13469;P55795;Q6H8Q1;Q9BR76;Q9H1B4;P27694;P07737;Q9NPC6;Q16587;O43516;Q9BPX3;O15117;Q9Y5B0;P63261;P42768;P36871;Q14192;Q8N3V7;Q9Y6D9;Q9P2B4;P60673;P29966;Q5TZA2;Q9Y2M5;Q96DV4;Q15697;P30419;Q8N0Z2;Q9NP98;P35606;Q9UL03;P31943;P62736;Q495M9;O43918;O15144;O95198}
- 5773 Pathogen[ P14079] interacts with 89 human  
partners: {O43516;Q9NQW6;P35579;O95166;O95425;P26639;Q5TZA2;Q08495;P63261;Q9Y614;Q9Y664;P54257;Q9Y5B0;Q14192;Q16658;Q92558;Q9NR12;Q9UI47;P35606;P47756;O00165;O14639;P07737;O75832;Q9UBF9;P10916;Q9NPC6;P35080;Q86SG2;Q7L5Y9;Q9NP98;Q9H1B4;P60673;Q9Y4G6;Q9C0H9;P50552;Q96GD0;Q9UKI2;O95198;O15145;Q96M02;O15511;P68032;Q9NQT6;P55795;O15117;Q9H2D6;Q8NFW9;P29966;P61158;Q16587;O15195;Q15697;Q8N3V7;P30419;Q9Y2M5;Q9BR76;P11277;Q6H8Q1;Q16621;O75366;Q9H4Z3;Q8N0Z2;Q00587;Q8N5W9;Q9Y5K6;Q9UL03;P31943;Q96LC9;Q05682;O43918;Q9BPX3;P27694;Q495M9;Q9P2B4;Q13469;Q96DV4;P02549;Q9NVD7;Q9Y573;P36871;Q9H3Q1;P68133;Q15542;Q8NHR9;O15144;P42768;O00401;Q9UMS6}
- 5774 Pathogen[ P03383] interacts with 38 human  
partners: {Q9H1B4;Q96LC9;P35080;Q13469;O14639;O15511;P27694;P55795;Q9UMS6;Q15542;O00165;P31943;P07737;O15117;Q92558;O75832;O43516;O00401;Q5TZA2;Q16621;Q14192;P29966;Q15697;P42768;Q8N0Z2;O43918;Q9Y5B0;Q9Y2M5;P35579;Q8N3V7;Q00587;Q9NPC6;Q9UL03;Q9C0H9;Q9BPX3;P06396;Q9Y6D9;Q9NP98}
- 5775 Pathogen[ P03410] interacts with 88 human  
partners: {O15511;Q96M02;Q8NHR9;Q9Y573;Q9UMS6;Q15697;P62736;Q16658;Q9Y614;P35080;Q9UBF9;P10916;P47756;Q8N3V7;P36871;Q9UL03;Q9NP98;Q9P2B4;Q495M9;O43516;P06396;Q05682;Q0VF96;O00165;Q96LC9;Q92558;P35606;O15145;Q6H8Q1;O43918;O00401;O14639;P35579;Q9UKI2;P30419;P42768;Q00587;Q96DV4;Q9H3Q1;Q9NQW6;P02549;P33241;Q8NFW9;Q9NPC6;Q9Y5K6;O95166;Q96GD0;O95425;P60673;P50552;P26639;P31943;Q16621;Q5TZA2;Q8N5W9;O95198;Q08495;Q9BR76;Q9H4Z3;P68133;Q9Y4G6;Q9H1B4;Q13469;Q9UHD8;Q86SG2;P54257;O15117;Q9Y5B0;Q9UI47;Q15542;P63261;Q9NVD7;P27694;Q8N0Z2;O15144;Q9C0H9;P55795;Q9BPX3;Q9Y664;P07737;Q7L5Y9;Q14192;P11277;Q9H2D6;P29966;Q9Y2M5;O75832;Q16587}
- 5776 Pathogen[ P14075] interacts with 40 human  
partners: {Q8N3V7;Q9NPC6;Q8N5W9;Q9Y6D9;Q15542;O75832;Q15697;Q9Y5B0;P42768;O43918;O15117;Q7L5Y9;P31943;Q5TZA2;Q96LC9;O15511;Q8N0Z2;P07737;Q00587;O43516;O00401;P29966;Q9NP98;Q13469;P06396;P35579;O14639;P27694;P26639;P35080;Q92558;Q9UMS6;Q16621;Q9H1B4;Q9Y2M5;Q9C0H9;Q9UL03;Q9BPX3;O00165;Q14192}
- 5777 Pathogen[ P0C206] interacts with 74 human  
partners: {O15511;Q9BPX3;Q9P2B4;Q96M02;P06396;O75832;Q13469;P60673;P47756;Q15019;Q8N3V7;O43516;Q9Y6D9;P62736;Q9BR76;P30419;Q9NVD7;Q15697;Q5TZA2;Q9NQW6;Q8NFW9;Q9UMS6;Q9Y614;Q9NP98;Q9UL03;Q9UI47;O15145;Q96LC9;Q16587;O43918;P68133;Q9Y5B0;Q7L5Y9;O00165;Q16658;P35080;Q86SG2;P35606;P63261;Q495M9;Q92558;Q9H1B4;P35579;O00401;Q9H4Z3;P55795;Q9C0H9;O15144;Q15542;Q9Y5K6;Q08495;Q16621;P26639;P11277;O95198;Q96GD0;P27694;Q14192;O14639;Q9Y2M5;Q16181;Q8N5W9;P42768;P07737;O15117;Q9NPC6;Q8N0Z2;O95166;P31943;Q96DV4;P29966;Q6H8Q1;P36871;Q00587}
- 5778 Pathogen[ P03363] interacts with 77 human  
partners: {Q16587;Q9Y614;Q8N3V7;Q9H2D6;P27694;Q9Y5B0;P11277;Q9Y6D9;Q9UI47;P02549;P35080;P35579;P60673;Q96LC9;Q9NQW6;Q9BR76;Q8NFW9;Q9UBF9;P62736;Q8NHR9;P42768;Q16621;P68133;Q00587;Q9UL03;Q96M02;Q9NP98;Q92558;O94875;Q96DV4;Q9Y4G6;Q08495;Q8N0Z2;P06396;Q5TZA2;O15117;O15144;Q96KN3;Q9Y2M5;P31943;Q6H8Q1;Q9BPX3;Q9UHD8;Q86SG2;Q15542;O15143;O95198;P54257;Q495M9;P29966;Q15697;Q13469;P55795;P35606;O00401;P63261;Q9UMS6;O43516;O43918;O00165;Q9Y664;Q9NVD7;Q9NPC6;Q9NR12;Q9P2B4;Q16658;O95166;Q9Y5K6;O15145;Q9H1B4;Q9Y573;P07737;O14639;P10916;O15511;Q9C0H9;Q14192}
- 5779 [Cluster 526]GO:0043292+C cellular\_component [name] contractile fiber [def]  
"Fibers, composed of actin, myosin, and associated proteins, found in cells of smooth or striated muscle." [GOC]
- 5780 Pathogen[ Q2Q067] interacts with 5 human  
partners: {O14974;P02511;P04792;P12883;P17661}
- 5781 Pathogen[ P0C214] interacts with 8 human  
partners: {P02511;P11055;P04792;O14974;P19429;P12883;P13533;P17661}
- 5782 Pathogen[ P03346] interacts with 7 human  
partners: {A8MU46;Q9UHP9;Q15149;P17661;P02511;O14974;P04792}
- 5783 Pathogen[ Q85601] interacts with 7 human  
partners: {P17661;P13533;P02511;P11055;P12883;P04792;O14974}
- 5784 Pathogen[ P14079] interacts with 9 human  
partners: {P19429;P02511;Q9UHP9;O14974;Q15078;Q15149;P12883;P04792;P17661}
- 5785 Pathogen[ P03383] interacts with 4 human partners: {P17661;P02511;P04792;P12883}
- 5786 Pathogen[ P03410] interacts with 10 human

5787 Pathogen[ P14075] interacts with 4 human partners: {Q9UHP9;P17661;P04792;P02511}

5788 Pathogen[ P0C206] interacts with 9 human partners: {Q9UHP9;P17661;P13533;P19429;P04792;P11055;O14974;P12883;P02511}

5789 Pathogen[ P03363] interacts with 7 human partners: {Q9UHP9;Q15149;P17661;O14974;A8MU46;P19429;P04792}

5790 [Cluster 527]GO:0005859+C cellular\_component [name] muscle myosin complex [def] "A filament of myosin found in a muscle cell of any type." [GOC]

5791 Pathogen[ Q2Q067] interacts with 2 human partners: {Q9UKX2;P12883}

5792 Pathogen[ P0C214] interacts with 8 human partners: {Q9UKX2;P14649;P13535;P12882;P12883;P13533;Q9Y623;P35749}

5793 Pathogen[ P03346] interacts with 2 human partners: {P14649;Q9UKX2}

5794 Pathogen[ Q85601] interacts with 8 human partners: {P13533;P14649;Q9UKX2;P12882;P35749;P12883;P13535;Q9Y623}

5795 Pathogen[ P14079] interacts with 3 human partners: {Q9UKX2;P14649;P12883}

5796 Pathogen[ P03383] interacts with 2 human partners: {Q9UKX2;P12883}

5797 Pathogen[ P03410] interacts with 6 human partners: {Q9UKX2;P12882;P12883;P14649;P13533;P13535}

5798 Pathogen[ P14075] interacts with 1 human partners: {Q9UKX2}

5799 Pathogen[ P0C206] interacts with 8 human partners: {P13533;Q9Y623;P14649;P12883;P12882;P35749;Q9UKX2;P13535}

5800 Pathogen[ P03363] interacts with 2 human partners: {P14649;Q9UKX2}

5801 [Cluster 528]GO:0044431+C cellular\_component [name] Golgi apparatus part [def] "Any constituent part of the Golgi apparatus, a compound membranous cytoplasmic organelle of eukaryotic cells, consisting of flattened, ribosome-free vesicles arranged in a more or less regular stack." [GOC]

5802 Pathogen[ Q2Q067] interacts with 6 human partners: {O43747;Q9UJY4;Q9UJY5;O75843;Q9NZ52;Q13367}

5803 Pathogen[ P0C214] interacts with 6 human partners: {Q9UJY5;Q13367;O75843;Q9UJY4;Q9NZ52;O43747}

5804 Pathogen[ P03346] interacts with 6 human partners: {O43747;O75843;Q9UJY4;Q13367;Q9UJY5;Q9NZ52}

5805 Pathogen[ Q85601] interacts with 6 human partners: {Q13367;O75843;Q9UJY4;O43747;Q9UJY5;Q9NZ52}

5806 Pathogen[ P14079] interacts with 6 human partners: {Q9UJY4;Q9UJY5;Q9NZ52;O75843;Q13367;O43747}

5807 Pathogen[ P03383] interacts with 6 human partners: {Q9UJY4;O75843;O43747;Q9UJY5;Q13367;Q9NZ52}

5808 Pathogen[ P03410] interacts with 6 human partners: {Q9NZ52;O43747;O75843;Q9UJY5;Q13367;Q9UJY4}

5809 Pathogen[ P14075] interacts with 6 human partners: {Q9UJY4;Q9NZ52;O43747;O75843;Q9UJY5;Q13367}

5810 Pathogen[ P0C206] interacts with 6 human partners: {O43747;Q9UJY4;Q9NZ52;Q9UJY5;O75843;Q13367}

5811 Pathogen[ P03363] interacts with 6 human partners: {Q13367;O43747;Q9UJY4;Q9NZ52;O75843;Q9UJY5}

5812 [Cluster 529]GO:0070545+C cellular\_component [name] PeBoW complex [def] "A protein complex that is involved in coordinating ribosome biogenesis with cell cycle progression. In human, it is composed of Pes1, Bop1, and WDR12\_ in Saccharomyces the proteins are known as Nop7p, Erbl1 and Ytml1 respectively." [GOC]

5813 Pathogen[ Q2Q067] interacts with 3 human partners: {Q9GZL7;O00541;Q14137}

5814 Pathogen[ P0C214] interacts with 3 human partners: {O00541;Q9GZL7;Q14137}

5815 Pathogen[ P03346] interacts with 3 human partners: {O00541;Q9GZL7;Q14137}

5816 Pathogen[ Q85601] interacts with 3 human partners: {O00541;Q9GZL7;Q14137}

5817 Pathogen[ P14079] interacts with 3 human partners: {Q9GZL7;O00541;Q14137}

5818 Pathogen[ P03383] interacts with 3 human partners: {O00541;Q9GZL7;Q14137}

5819 Pathogen[ P03410] interacts with 3 human partners: {Q14137;Q9GZL7;O00541}

5820 Pathogen[ P14075] interacts with 3 human partners: {Q9GZL7;O00541;Q14137}

5821 Pathogen[ P0C206] interacts with 3 human partners: {Q14137;Q9GZL7;O00541}

5822 Pathogen[ P03363] interacts with 3 human partners: {Q9GZL7;Q14137;O00541}

5823 [Cluster 530]GO:0005652+C cellular\_component [name] nuclear lamina [def] "The fibrous, electron-dense layer lying on the nucleoplasmic side of the inner membrane of a cell nucleus, composed of lamin filaments. The polypeptides of the lamina are thought to be concerned in the dissolution of the nuclear envelope and its re-formation during mitosis. The lamina is composed of lamin A and lamin C filaments cross-linked into an orthogonal lattice, which is attached via lamin B to the inner nuclear membrane through interactions with a lamin B receptor, an IFAP, in the membrane." [ISBN]

5824 Pathogen[ Q2Q067] interacts with 3 human partners: {P02545;Q03252;Q9UHQ1}

5825 Pathogen[ P0C214] interacts with 4 human partners: {P50747;Q9UHQ1;Q03252;P02545}

5826 Pathogen[ P03346] interacts with 3 human partners: {P02545;Q03252;Q9UHQ1}

5827 Pathogen[ Q85601] interacts with 3 human partners: {P02545;Q03252;Q9UHQ1}

5828 Pathogen[ P14079] interacts with 3 human partners: {Q9UHQ1;Q03252;P02545}

5829 Pathogen[ P03383] interacts with 3 human partners: {P02545;Q9UHQ1;Q03252}

5830 Pathogen[ P03410] interacts with 3 human partners: {Q9UHQ1;Q03252;P02545}

5831 Pathogen[ P14075] interacts with 3 human partners: {P02545;Q9UHQ1;Q03252}

5832 Pathogen[ P0C206] interacts with 3 human partners: {Q9UHQ1;Q03252;P02545}

5833 Pathogen[ P03363] interacts with 3 human partners:{P02545;Q03252;Q9UHQ1}

5834 [Cluster 531]GO:0005869+C cellular\_component [name] dynactin complex [def] "A 20S multiprotein assembly of total mass about 1.2 MDa that activates dynein-based activity in vivo. A large structural component of the complex is an actin-like 40 nm filament composed of actin-related protein, to which other components attach." [ISBN

5835 Pathogen[ Q2Q067] interacts with 3 human partners:{075935;Q13561;P42025}

5836 Pathogen[ P0C214] interacts with 4 human partners:{075935;P42025;O00399;Q13561}

5837 Pathogen[ P03346] interacts with 4 human partners:{075935;P42025;O00399;Q13561}

5838 Pathogen[ Q85601] interacts with 5 human partners:{P61163;075935;O00399;P42025;Q13561}

5839 Pathogen[ P14079] interacts with 6 human partners:{Q9NZ32;O00399;Q13561;P61163;P42025;075935}

5840 Pathogen[ P03383] interacts with 3 human partners:{P42025;075935;Q13561}

5841 Pathogen[ P03410] interacts with 6 human partners:{Q13561;Q9NZ32;O00399;P61163;075935;P42025}

5842 Pathogen[ P14075] interacts with 3 human partners:{Q13561;075935;P42025}

5843 Pathogen[ P0C206] interacts with 6 human partners:{Q9NZ32;P61163;O00399;Q13561;075935;P42025}

5844 Pathogen[ P03363] interacts with 6 human partners:{Q13561;O00399;P61163;Q9NZ32;075935;P42025}

5845 [Cluster 532]GO:0044428+C cellular\_component [name] nuclear part [def] "Any constituent part of the nucleus, a membrane-bounded organelle of eukaryotic cells in which chromosomes are housed and replicated." [GOC

5846 Pathogen[ Q2Q067] interacts with 4 human partners:{Q13573;P12755;075376;Q14207}

5847 Pathogen[ P0C214] interacts with 4 human partners:{Q13573;Q14207;075376;P12755}

5848 Pathogen[ P03346] interacts with 4 human partners:{Q14207;075376;Q13573;Q8NEA6}

5849 Pathogen[ Q85601] interacts with 5 human partners:{Q13573;P12755;Q8NEA6;075376;Q14207}

5850 Pathogen[ P14079] interacts with 5 human partners:{P12755;Q14207;Q13573;075376;Q8NEA6}

5851 Pathogen[ P03383] interacts with 3 human partners:{Q13573;075376;Q14207}

5852 Pathogen[ P03410] interacts with 5 human partners:{P12755;Q14207;075376;Q8NEA6;Q13573}

5853 Pathogen[ P14075] interacts with 3 human partners:{Q14207;Q13573;075376}

5854 Pathogen[ P0C206] interacts with 5 human partners:{P12755;Q8NEA6;Q13573;075376;Q14207}

5855 Pathogen[ P03363] interacts with 4 human partners:{075376;Q8NEA6;Q13573;Q14207}

5856 [Cluster 533]GO:0005658+C cellular\_component [name] alpha DNA polymerase [def] "A complex of four polypeptides, comprising large and small DNA polymerase alpha subunits and two primase subunits, which catalyzes the synthesis of an RNA primer on the lagging strand of replicating DNA\_ the smaller of the two primase subunits alone can catalyze oligoribonucleotide synthesis." [GOC

5857 Pathogen[ Q2Q067] interacts with 2 human partners:{Q14181;P25205}

5858 Pathogen[ P0C214] interacts with 2 human partners:{P25205;Q14181}

5859 Pathogen[ P03346] interacts with 2 human partners:{P25205;Q14181}

5860 Pathogen[ Q85601] interacts with 2 human partners:{P25205;Q14181}

5861 Pathogen[ P14079] interacts with 3 human partners:{P49642;Q14181;P25205}

5862 Pathogen[ P03383] interacts with 2 human partners:{Q14181;P25205}

5863 Pathogen[ P03410] interacts with 3 human partners:{P25205;Q14181;P49642}

5864 Pathogen[ P14075] interacts with 2 human partners:{P25205;Q14181}

5865 Pathogen[ P0C206] interacts with 3 human partners:{P25205;P49642;Q14181}

5866 Pathogen[ P03363] interacts with 2 human partners:{P25205;Q14181}

5867 [Cluster 534]GO:0030532+C cellular\_component [name] small nuclear ribonucleoprotein complex [def] "A complex composed of RNA of the small nuclear RNA (snRNA) class and protein, found in the nucleus of a eukaryotic cell. These are typically named after the snRNA(s) they contain, e.g. U1 snRNP or U4/U6 snRNP. Many, but not all, of these complexes are involved in splicing of nuclear mRNAs." [GOC

5868 Pathogen[ Q2Q067] interacts with 16 human partners:{P62312;Q9Y6D6;095391;P62318;P62314;P62304;P14678;Q96RS0;P57678;P09661;P62316;P62306;P63162;P62308;Q9Y4Z0;Q15428}

5869 Pathogen[ P0C214] interacts with 16 human partners:{P62312;P62316;P14678;P62306;P57678;Q15428;P62308;Q9Y4Z0;P62314;P63162;P62318;Q96RS0;P62304;Q9Y6D6;P09661;095391}

5870 Pathogen[ P03346] interacts with 18 human partners:{P62304;095391;043818;P62318;Q9Y6D6;P63162;Q9Y4Z0;P62306;Q96RS0;P62314;P14678;P57678;P62316;P62308;P62312;Q15393;P09661;Q15428}

5871 Pathogen[ Q85601] interacts with 14 human partners:{P62304;095391;P62316;P14678;P62314;P62306;P63162;Q9Y4Z0;P62318;P62312;Q96RS0;Q9Y6D6;P62308;P09661}

5872 Pathogen[ P14079] interacts with 16 human partners:{P57678;Q96RS0;P62312;P62314;P62306;P14678;Q9Y4Z0;Q9Y6D6;P62308;P62304;Q15428;P62316;P09661;P62318;095391;P63162}

5873 Pathogen[ P03383] interacts with 15 human partners:{P09661;P62318;P62312;P62304;P63162;Q9Y6D6;P62314;P14678;Q96RS0;Q9Y4Z0;P57678;P62308;095391;P62306}

5874 Pathogen[ P03410] interacts with 18 human

5875 partners:{Q96RS0;P62304;P62306;Q15393;P62308;P14678;P62316;O43818;P62314;Q15428;P09661;Q9Y6D6;Q9Y4Z0;P57678;P62312;P63162;O95391;P62318}  
 Pathogen[ P14075] interacts with 16 human

5876 partners:{P62304;P62316;P57678;O95391;Q9Y4Z0;Q15428;P63162;P62306;P62308;Q9Y6D6;P62312;P62318;Q96RS0;P09661;P14678;P62314}  
 Pathogen[ P0C206] interacts with 16 human

5877 partners:{Q96RS0;P14678;P62304;Q9Y6D6;P63162;P62314;P62316;Q9Y4Z0;P62318;P62306;P62312;P09661;P62308;O95391;Q15428;P57678}  
 Pathogen[ P03363] interacts with 18 human

5878 partners:{P62314;Q96RS0;P63162;Q9Y4Z0;O95391;P62312;Q15393;P62318;P62304;O43818;P62306;P57678;P62316;Q15428;P62308;Q9Y6D6;P14678;P09661}  
 [Cluster 535]GO:0030669+C cellular\_component [name] clathrin-coated endocytic vesicle membrane [def] "The lipid bilayer surrounding a clathrin-coated endocytic vesicle."  
 [GOC]

5879 Pathogen[ Q2Q067] interacts with 5 human  
 partners:{P63010;Q96CW1;Q00610;Q99962;P09496}

5880 Pathogen[ P0C214] interacts with 5 human  
 partners:{Q96CW1;Q99962;P63010;P09496;P53680}

5881 Pathogen[ P03346] interacts with 6 human  
 partners:{P63010;P53680;Q99962;P09496;Q96CW1;Q00610}

5882 Pathogen[ Q85601] interacts with 6 human  
 partners:{Q00610;P09496;Q96CW1;Q99962;P53680;P63010}

5883 Pathogen[ P14079] interacts with 6 human  
 partners:{Q96CW1;Q00610;P63010;P53680;P09496;Q99962}

5884 Pathogen[ P03383] interacts with 3 human partners:{Q96CW1;Q00610;P63010}

5885 Pathogen[ P03410] interacts with 6 human  
 partners:{Q00610;P09496;Q96CW1;P53680;P63010;Q99962}

5886 Pathogen[ P14075] interacts with 4 human partners:{P09496;Q96CW1;P63010;Q00610}

5887 Pathogen[ P0C206] interacts with 6 human  
 partners:{P53680;P63010;Q00610;Q99962;P09496;Q96CW1}

5888 Pathogen[ P03363] interacts with 4 human partners:{Q99962;Q00610;P63010;Q96CW1}

5889 [Cluster 536]GO:0005730+C cellular\_component [name] nucleolus [def] "A small, dense body one or more of which are present in the nucleus of eukaryotic cells. It is rich in RNA and protein, is not bounded by a limiting membrane, and is not seen during mitosis. Its prime function is the transcription of the nucleolar DNA into 45S ribosomal-precursor RNA, the processing of this RNA into 5.8S, 18S, and 28S components of ribosomal RNA, and the association of these components with 5S RNA and proteins synthesized outside the nucleolus. This association results in the formation of ribonucleoprotein precursors\_ these pass into the cytoplasm and mature into the 40S and 60S subunits of the ribosome."  
 [ISBN]

5890 Pathogen[ Q2Q067] interacts with 1035 human  
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5891 Pathogen[ P0C214] interacts with 1084 human partners: {P41970;Q9BQ67;Q9Y2B5;P40424;Q9BY77;P06132;P61236;Q92993;Q12996;O75683;O95551;O00170;O00268;P29474;Q6NZY4;Q9BVJ6;Q9NRR3;P53567;O95243;Q6RFH5;Q14526;Q9Y3E1;P82979;P61247;O43684;Q5MIZ7;Q9Y5L0;Q96GM8;Q03989;Q9HAJ7;D6RGH6;Q7Z3K3;P51114;Q9UHB7;Q96BK5;Q96FV9;P08729;Q92585;Q14527;Q9Y3T9;Q15007;Q9UHL9;Q8WX92;Q9H832;Q9UDY4;Q96CJ1;O15234;Q9P278;P35226;Q8N1G1;Q969S3;Q96NS1;P0DI83;Q8IWX8;Q96S65;Q96QA6;Q86XI2;Q5JTD0;Q05195;O75818;P41220;Q9H6T0;Q6ZNI7;Q96GA3;Q9BU02;O00534;Q9H633;Q9H4X1;O75691;Q00653;P27695;Q9BXY0;Q8N573;Q9BUL9;O43365;Q9ULR0;Q9UGY1;P38432;O75486;Q96PM5;Q13887;Q96C86;P15880;Q96T58;Q96HI0;P61244;P62081;P42766;Q15697;Q9N3V1;P19474;Q9H875;P62913;Q29RF7;O15111;Q8WXF8;Q00613;Q9BSJ2;P35869;Q13469;Q15024;Q06787;Q13573;Q14331;O43172;P51610;Q9H6Y2;O75528;Q9NPE3;Q15047;Q13330;Q8NHF5;O14746;Q9H788;Q13620;P35637;Q8TBZ0;Q06546;P62140;Q13363;Q4VC44;P05783;Q9UKX2;P17010;O95478;Q6P2E9;O75934;O94986;O95453;Q15651;Q96S55;Q9BSF8;Q13547;Q8TEA8;P78337;P49959;Q12824;Q14872;Q8IXK0;Q96KR1;Q6IEG0;Q8NFB6;P28838;Q53HL2;P30876;P53992;P39019;P62263;O75347;Q08999;Q9BRP8;P19838;Q6UUV7;P46087;O94842;P57721;Q9H079;Q9Y262;P78371;Q96JI7;Q9H9Y6;O14497;Q9NXZ1;P02533;Q5JVG8;P15336;Q9UFW8;Q9BUI4;Q9Y473;P13010;P54253;Q9NQ55;Q9UH90;Q969H6;Q7L0Y3;Q16186;P21675;Q7L266;O00159;Q15361;O43159;Q7Z699;Q9NVU0;Q86V81;P48643;Q9BSM1;Q14164;P53396;Q9UDW3;Q9UNX4;Q9Y5S9;P07741;P61571;P51003;Q7Z4H7;Q8TC56;P81274;Q13769;Q12873;O95295;P06748;Q13829;Q15554;P50750;P26599;Q8NHQ1;Q9UIH9;Q9Y255;Q7L590;Q00987;Q96FX2;Q9GZU2;O00267;Q16222;Q92841;Q3T8J9;P55212;O75190;Q8TAD8;Q13112;P40121;Q15014;P49427;Q9Y2L1;Q9H6J7;Q2NL82;P62847;O75618;Q8WTT2;P42226;O76021;Q9H0S4;Q9C035;Q9NY27;Q8N2W9;Q14119;Q8WXX9;P62829;P41252;Q15029;Q14765;Q9C086;P0CG30;O00541;Q8N5F7;Q9UDY8;Q16621;Q96R06;P01100;Q14152;Q9P2N5;Q9BV57;Q9BXS6;Q14145;Q96Q46;Q96BP2;Q92560;P55265;P17275;Q92750;Q96EU6;Q5EE01;Q13367;P11802;A6NHQ2;Q99567;O14929;P57678;P32519;Q9C099;P61572;P34932;Q9Y3B2;Q9BQ60;Q53HV7;Q15233;P23769;Q16587;Q504T8;Q15637;Q96NY9;Q92797;P15408;Q9GZL7;O15446;P53999;Q86WX3;Q6PI26;O95625;P61457;

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5N1;Q9UPP1;Q8IZU1;Q9BV86;Q96T37;P08047;Q09FC8;P49756;Q14966;A6NLJ0;Q9UKT4;Q9HC52;Q96B26;Q9GZS3;O00255;Q12830;Q8ND90;Q96PM9;Q16629;Q8NCE0;Q9NRY2;Q8N3X1;Q9Y2X3;Q9H583;Q9Y3B8;P36578;O60936;Q15021;Q9NV06;Q9UGK3;Q0VD86;Q49MG5;Q9BQ15;Q8NBZ0;P51553;Q9Y6J0;Q16719;O75154;P09874;P49721;Q9NX46;Q6UN15;Q9BVP2;Q7Z6J9;Q9NYF8;Q6I9Y2;Q8N3Z6;Q13541;Q9P1U0;Q9BTP7;P55072;Q9H2P0;Q5I751;Q15723;Q96DE0;Q9UJC5;Q13415;Q14181;Q5TAX3;Q68DK7;O96028;Q9H1Z4;P11142;Q96E16;P82Y47;Q9NS39;Q6Q759;Q16773;Q14790;Q9H116;Q9H9L7;Q15306;Q86VM9;Q9H1J1;P25685;P0CG29;Q9Y222;Q9Y3A2;Q8N720;Q8NHM5}

5892

Pathogen[ P03346] interacts with 1203 human

partners: {Q08J23;O60921;Q9BVJ6;Q9NVU0;Q15723;A6NK53;Q92681;Q06330;Q7Z3K3;P85037;Q06945;Q9Y606;Q9Y5S9;P62136;Q96FV9;Q969S3;O15265;O75691;Q96ST3;Q9UPN9;P12004;P54821;O76021;Q9UKA2;Q9Y253;P59047;Q03989;Q96AC1;P51991;O95639;P08729;Q92585;Q96CJ1;Q12874;Q12830;Q15542;Q9UHL9;Q99615;Q9Y3A2;Q5RKY6;Q16621;P46063;Q86U42;Q4VC44;O15234;Q9NWT1;P61978;Q96S65;Q9ULR0;Q9Y3Y2;O15042;Q1ED39;Q9BXS6;P50135;Q96GA3;O43172;Q9UBS3;Q15050;Q9H4X1;Q5TID7;Q9Y6K1;Q9GZR1;Q16666;Q8N573;P16083;Q86UW9;Q8WXA3;Q9HB65;Q86UU5;P56181;Q8WXF1;P28324;Q13895;Q9NZ74;P45973;Q9NP64;Q92560;P62913;O15111;P86452;Q15366;Q53ET0;P52434;Q15061;Q9HAV4;Q06787;Q96HA7;A2A288;O95625;P78346;Q9H2G9;O43290;Q92979;Q9NPJ6;P61579;Q96FQ6;Q8WV37;P50221;P18847;Q96C00;Q9NQ55;Q9Y324;P30279;P29373;Q13228;P05783;Q96EK4;P62277





6;Q8WXS3;Q9UI36;Q9H9S0;Q6Q759;Q9NQZ2;Q9BZR9;P30260;O43663;Q16587;Q9UPN7;Q9NYF8;Q9Y3B9;Q9NY12;Q9Y618;Q9Y2W1;Q9UL03;Q8NF91;O15527;Q9UL41;Q9UI43;Q96GC6;P06454;Q8N987;Q9H1Z4;Q9BTC8;P40763;Q96EY5;Q99729;Q9Y473;Q969H0;Q9BQ67;Q7L590;Q8N3Z6;Q9BVW5;Q9NVN8;Q69383;Q9H320;Q8TAQ2;Q9BRS8;O94874;Q14690;Q9Y5J1;O14862;P52597;Q8TAD8;A6NLJ0;Q9H204;Q9BWV1;Q92804;O95478;Q9UMX1;Q7RTV3;Q6PJT7;Q86UD0;Q7Z6Z7;Q8WXB4;O14727;O14662;Q9NQ4;Q12972;Q06587;O60216;Q9H160;Q8TED0;P01100;Q96PK6;Q9NZ63;Q8IWA0;P62753;O43823;Q9NP37;Q9UL42;Q12996;Q9BSV6;O14802;Q9UBF6;Q14164;Q9NRC8;Q96D46;Q9UQL6;Q7L5N1;Q00444;Q96T37;Q86XP3;O75081;Q53EL6;Q9UIH9;Q9Y3D0;Q96PM9;P53992;Q92785;Q9BTE3;Q9UK73;Q9GZS1;O43248;Q9Y4W2;P31949;Q15650;P18615;P32969;O60524;Q9BQ95;P33240;Q9H8H0;Q8IY85;O14929;Q9H0I3;Q9H008;Q9Y4P8;Q8NH75;Q13352;Q13901;Q16630;O95571;Q13868;Q15054;Q9H9Y2;P19387;Q9NCH5;Q9UKD1;Q96JK9;Q9UHA3;P46783;Q9BVP2;Q6ZNL7;Q9Y3A5;Q9NX46;Q9Y262;Q00653;Q9NVR2;Q8NCE0;P17482;Q6I9Y2;Q96NS1;O00488;Q13127;Q96JB3;Q92791;Q3B726;Q9UPA5;Q9P1U0;P11387;Q9UJC5;Q9Y2B5;Q9H4L7;Q68CQ4;O15127;Q9NXZ1;Q5C9Z4;Q76FK4;O96028;Q9UPV0;Q6IEG0;Q9H079;Q8WYQ5;O75791;O43719;Q9BQA5;Q14686;Q14331;Q15319;Q5VUA4;Q15543;Q9H1J1;P57721;O00444;Q6ZJW1;O43395;P17987;O15162;Q9H321;Q9H6R4}

5893

Pathogen[ Q85601] interacts with 1080 human

partners: 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5894

Pathogen[ P14079] interacts with 1084 human

partners: {Q9H0U9;Q5EBL4;Q13228;Q9UQL6;O60671;Q15637;Q9NZ81;Q8NFH5;P28838;Q3T8J9;Q9BXW6;Q5JTD0;Q9Y3U8;P56181;Q96C00;Q9UKA4;Q14980;Q9BYG7;Q9UQR1;O75886;Q9UPW6;Q9H204;Q15560;Q8N2W9;Q8N2741;Q96FX2;Q9H668;Q8IZU0;P52758;Q9H320;Q8IV48;O00422;P78346;P11388;Q99459;P41218;Q9N573;Q96IY1;Q68DK7;Q15014;P48643;P62333;Q9BQ95;P53804;Q8TEA8;Q7L804;Q96J17;O14746;Q5XKL5;Q92979;Q9NWS1;Q15007;Q9UL40;Q8WWX9;Q9BQ15;P57678;Q8WZ3;Q9Y3B8;Q99627;Q96I25;P09874;Q96JB3;Q9Y4A5;Q9H0S4;P48556;O75618;Q08945;O15162;P09132;P10155;Q9UPP2;O75151;Q96EY5;Q9Y3B2;Q6UB98;Q7L590;P13196;Q5D1E8;Q6ULP2;Q05084;Q8WUN7;Q5EE01;Q9H0I3;P11142;Q9HAJ7;Q8WXB4;Q9BZK7;O75934;O43364;Q9NV31;Q9BVP2;P35869;Q96T37;Q8WV24;Q969X6;O75817;Q9NYV6;Q06413;Q9NSI6;Q9NPE3;Q9UI43;O75400;Q5EBM0;Q15047;Q86V15;Q16222;Q8IZU1;Q9C005;Q14566;Q14442;Q9Y2X3;Q92681;Q9GZV5;Q9NWT8;Q06546;Q9UKT4;Q9NRR3;P35637;Q9UL42;Q8WXS3;Q969H0;O60828;P78337;D6RGH6;Q6ZVD7;Q9NZM5;A6NK53;Q96NY9;Q9H321;Q92917;P19387;O75691;Q9UGK8;Q9Y3A2;O95139;Q9C035;Q9Y5B0;P57721;Q15776;Q9Y255;Q9UHA3;O75528;P54136;Q9H869;Q9Y4P8;Q13148;Q8IWX8;Q2NL82;Q96ER9;Q9NVU7;Q13415;Q9Y6K1;O95359;P61576;Q9GZU2;Q9H0A0;P56589;O75312;Q9NVR2;Q96R06;Q96HI0;P17010;Q68CJ9;Q15723;Q9UBW8;Q01082;P53567;Q9UKD1;Q14103;Q9UGN5;P53999;Q9UPN7;P24864;Q8N108;Q9Y237;Q9BVC6;Q99700;Q14146;Q9UNQ2;Q96CJ1;P46781;P36873;Q9NPN6;P82979;Q9UBS3;P35680;O15446;Q6IA86;Q9NY61;P62847;P13010;Q96ST3;Q15024;Q96JK9;Q92541;P62753;Q9UBF6;P16083;Q13620;P56537;Q9BRU9;P98171;P52434;O60832;P52298;P04156;Q94986;Q92804;Q99871;Q63HQ0;O00170;Q9HC52;Q5JVG8;Q70IA6;Q9BT56;Q99549;P50135;P39023;Q9H1J1;Q12874;P61457;Q96FF9;Q6P9F0;O43823;Q9Y468;Q99829;Q69YH5;Q9H4L7;O95429;Q13243;Q8N1G2;Q15397;P39880;O60524;Q9Y5S9;Q9GZS1;Q7Z3K3;Q13835;Q13901;O75475;P50991;Q8NG50;Q8N336;P49005;Q6PJT7;Q9UL41;Q9BSW2;Q6NZY4;Q9NVX0;P04080;Q12906;Q96PM9;P33240;P31949;Q9BSV6;Q9GZL7;P26038;Q9NX46;Q8N987;Q13330;A6NLJ0;Q9Y6H5;O94874;P30876;Q92922;Q96NB3;O95251;Q14164;Q9BV86;Q9UGK3;P61218;Q9GZX5;Q8WTT2;Q6P2C8;Q9NXV6;Q8TED0;Q9UDY4;Q9NTM9;O43598;P61579;Q8TEV9;Q9H8H0;Q8IXF0;O95163;A4D1E9;Q9H008;Q9UMX1;Q9H008;Q9NQT0;Q9Y250;Q13428;Q9UPA5;Q16186;P62136;P0DI83;P51587;O60216;Q8N720;Q14966;Q6ZNA4;P29401;Q8IX15;Q13868;Q8IWX3;P58304;Q9UNX4;Q6IEG0;P51531;Q8N726;P46783;Q86US8;Q16143;O60287;Q9UFW8;Q9NPD3;Q8NBZ0;O96004;Q92748;Q13573;Q9GZR2;Q6Q759;Q92800;P78371;Q08378;O60303;Q8WW01;Q5T8A7;Q9H503;P15976;P08729;Q9BYN7;P06744;Q96D46;Q9GZS3;Q92785;Q86XK2;Q9NY27;Q8NG31;Q6P387;Q9NRS6;O14497;Q96C86;Q15050;Q86SG2;Q9NS39;P53992;O95639;Q9ULW0;Q9HAF1;Q4VC44;P32519;Q13112;Q9Y3D0;Q15029;Q9H6F5;Q13045;Q8NHM5;Q8TAQ2;Q12968;Q9Y3A5;Q9UKX2;P41220;Q9BZV1;Q13427;Q9H2P0;Q9H1B4;P18615;Q9UGY1;Q86YP4;A6NHQ2;O60869;Q96S99;Q9Y3Y2;Q9NUQ6;O60934;O75190;Q8TDN6;P49918;Q6P2E9;Q8NCE0;O15527;Q96L92;Q9BTE3;P35998;Q9BQA5;Q15306;Q9UHK0;P54253;P14324;Q14498;O95707;P42766;Q14258;P30793;Q969V6;Q03933;Q08211;P25685;Q14765;Q9H9Z2;Q5TAP6;Q9UHX1;O95453;Q8IY81;Q6ISB3;Q96AY2;Q03989;P23497;Q9NQ90;Q9H307;P51610;Q9BY77;Q6PJJ2;Q15744;P09629;P22087;Q9BXS6;P02533;Q15072;O60315;O43290;P46939;P55197;Q7LG56;Q9BVJ6;Q96S65;P55212;Q7L266;Q12873;P40121;Q03111;Q96FV9;Q5TD94;Q15459;Q9H6J7;O00461;Q9BVI4;Q8WVY7;Q13541;Q9UHB7;Q6FI81;Q9NTI5;O00567;Q00987;Q92797;Q9Y421;Q9BSU3;A4D1E1;Q9BVT8;Q9BZE4;P32969;Q9NYF8;O00534;Q9Y244;Q9ULW8;P43243;Q15061;P28768;Q8TF68;P28069;Q6PI98;Q9NNX9;Q17RY6;Q13769;Q9H0E9;Q14149;Q12905;Q9BUR4;Q9ULR0;Q9H2G9;P45973;Q9Y3E1;Q9H9L7;P19338;P42226;Q06330;Q8WU90;O00186;Q9NWZ8;O43148;Q8N1G1;Q8N0W7;Q9UK73;P82970;Q16629;Q9H6W3;Q86U55;Q9H6R4;O95721;Q5H9F3;Q15651;P78364;Q00613;P39019;Q8N357;P17480;P26599;Q8IY85;P36405;O95571;Q15054;Q8WY54;P55795;O75952;Q9ULZ2;P61572;P61236;Q96QT6;Q9Y3T9;P06132;Q9ULW3;O94805;Q6I9Y2;Q96BP2;Q8NCN2;Q7Z699;P41182;O43663;Q7Z6E9;O00566;Q8NAP3;Q9NV06;Q96GA3;P10074;Q5MIZ7;Q96AE4;O75791;Q3ZCT1;Q5TAX3;Q9P1U0;Q99496;P49756;Q9UBC3;Q03936;Q14692;Q13875;P51955;Q13356;O75943;O00257;Q9H7D7;Q14790;O14929;Q9H6T0;Q96HA7;

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5895

Pathogen[ P03383] interacts with 919 human

partners: {Q9UQR1;Q17RY6;Q96MH2;Q86UA6;Q9Y618;Q14683;P78345;Q13573;Q92681;Q9H1B4;Q7Z2E3;Q06330;Q8N9W8;Q9NYV4;P42766;Q13228;Q15723;Q9NVV4;Q9NRR4;P51398;Q68CJ9;P36578;Q9BQG0;Q8IX15;P62140;Q9Y253;Q06265;Q7L804;Q5JVG8;O95478;Q14978;P08729;Q9NY61;Q92585;Q15935;P39019;P15014;Q13601;Q12830;Q9UHL9;P19474;O15234;P14316;Q9Y2L1;Q96S65;Q86XR8;Q96GA3;Q99547;Q86UU5;Q8WZ33;Q53EL6;Q15047;Q9BQA1;Q9H4X1;O95625;Q96JK9;Q86UW9;P62913;O14497;O95602;O60671;Q6PJT7;Q13485;P02533;Q9Y324;P61574;Q9BSJ2;Q9BVW5;Q86XI2;O14862;P0DI83;O95163;O75791;Q15366;P08047;Q9UPW6;P51003;Q9NYV6;Q9BTC8;P06748;O43148;P13010;P29474;P40926;O75528;P55212;P53804;Q9UKI9;Q9Y244;P16220;Q9BVJ6;Q9NWS1;Q9H0S4;O43390;Q9Y2P8;P28069;Q8WXS3;Q9H8H0;Q8TAD8;O94986;Q13469;Q9H9Z2;Q9BSF8;Q12824;Q8N6T7;Q12824;Q9NVN8;Q96J17;Q7Z6B0;Q9UP83;P61572;P19338;O60287;Q9H4I2;O00472;Q9NP64;Q00653;Q15459;O00567;O60765;Q13356;Q08999;Q5VZE5;O94805;Q8N6I1;Q6UUUV9;Q86UE4;P06454;O43290;O94776;Q3T8J9;P49711;Q0VD86;P22626;Q6P4R8;Q9BSJ6;P04156;Q5HYK7;Q9H869;Q15029;Q15072;O75486;Q9BU02;Q14526;Q9UQL6;Q9NXZ1;P38646;Q9NVX0;Q5TAP6;Q15650;O15162;Q9UBQ5;Q5TID7;P61571;Q03111;Q969H6;P01106;Q9UK73;O43172;Q86YF4;Q96CJ1;P19367;Q9H633;Q15257;O95251;Q13769;Q96GN5;Q9UHR5;Q7L590;P40424;O95295;O00534;P41220;P78347;Q15554;Q9UKD1;O00541;O15527;Q9UPN9;Q9ULR0;Q8IWX8;Q14181;P46777;P49116;Q9P2R6;Q9Y5S9;Q99575;P23193;Q9NTK5;Q13875;Q8N668;P49427;Q8WXE9;Q9NP66;P27694;Q9Y4A5;Q8WTT2;P55795;Q96FX2;Q53HV7;Q9P258;O43236;Q9H6Y2;O15111;Q9BXS6;Q9Y535;P56537;Q9C086;Q99700;Q8N5F7;P17482;Q9H9Y6;Q6ECI4;P53999;Q7Z4H7;Q96DE0;Q75618;Q92905;Q5EE01;Q96SW2;Q8WLL7;P18847;Q8NFH5;Q9BUR4;P25205;Q9UBW8;Q7Z6J9;Q96KQ4;P46013;Q9BYN7;Q5JTD0;Q9NS73;O00257;Q16836;Q6ZN17;Q9BTE3;Q14686;Q96FV9;Q06787;Q12972;P62753;Q6PI26;O00186;Q9UBP6;P23769;Q5D1E8;Q9H503;Q92797;Q8WYQ5;Q9Y262;Q92841;Q9H204;Q9UMY1;Q9NWT8;P37275;Q9BZV1;Q075886;Q9BQ95;P61573;Q96N77;Q9HC52;Q96PU4;Q06587;Q15542;Q9H9L7;Q96BK5;P61247;O00712;Q92733;D6RGH6;O43365;Q9UNQ2;Q5TD94;Q96JB2;Q9ULW3;Q9NQ55;Q9ULW3;Q9NQP8;Q6PJP8;Q11446;Q9BZZ5;Q8NCE0;Q96KR1;P28838;Q9C0F3;A4D1E1;P49721;O60936;Q8NEZ2;O00170;Q9NZM5;Q99816;Q9NX18;Q9BZE4;Q12874;Q6ZNA4;Q5TKA1;P52434;Q6PJG2;P61218;Q13243;O14503;P35573;Q9UKT4;O43598;Q96QT6;Q14814;Q9Y2B5;Q86XK2;Q6ISB3;Q08945;P42226;P61978;Q8WXF1;Q9Y6D6;Q9UN36;O75691;P11387;Q9NUQ6;Q14331;Q14152;Q9GZS1;P31943;Q9NPE3;Q92993;Q86V15;Q9UI43;O75400;Q99459;O75151;Q969V6;P61575;P49005;Q9GZX5;Q86V18;Q15306;Q5U623;Q9NPJ6;Q15651;Q7Z7K6;Q14690;Q96DX5;Q96S55;P05783;Q9H6R4;Q13352;Q13435;Q15050;O43493;Q13330;P61457;Q969X6;P15621;A6NK53;Q8WV37;Q7L0Y3;Q9ULW8;Q8N2W9;O43324;Q6NZY4;P15408;Q9H6W3;P78337;Q9H321;Q96EK4

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5896

Pathogen[ P03410] interacts with 1117 human

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5897

Pathogen[ P14075] interacts with 936 human

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5898

Pathogen { P0C206 } interacts with 1179 human partners: [P27695;Q96HA7;Q5VUA4;O43598;Q8N720;Q6IEG0;Q13112;O00488;Q9Y3S2;Q9BT56;Q15072;P61572;Q6PJG2;Q9Y253;Q9Y468;O14662;Q15723;Q13875;P09132;Q13887;Q3T8J9;Q9Y224;O75486;Q9NZ63;Q9BZQ8;Q9Y2X9;Q9H0S4;Q9H8H0;P53567;O75683;O60216;Q9NPE3;Q9NX58;Q9BUL9;P48643;P31949;Q86XR8;Q99848;P46939;Q53T94;Q08J23;Q96L92;Q86V15;O43324;P56181;Q9H4L7;Q9P1U0;Q8IX15;P33240;Q8IXQ5;Q9Y3E1;Q13829;Q13541;Q63HQ0;Q01082;Q9P2N5;Q8WVL7;O43933;Q9C005;Q15127;Q9BTE3;A6NHQ2;Q9Y5L0;O75528;O75952;Q65195;Q9NQE9;Q13601;Q92575;Q96T37;O95309;O96G21;O94986;O43159;Q14103;P13010;Q8N187;Q00444;Q9NX46;Q496M5;O95478;Q9BVI4;Q9Y2D1;Q7Z2X4;Q9UHL9;O75934;Q8WU90;Q96AY2;P45973;P23193;O94842;Q9UDY4;Q06546;Q8NEZ2;P49790;Q9BYG

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5899

Pathogen { P03363 } interacts with 1095 human

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 V06;Q9NP66;Q76FK4;Q969S3;P15408;Q6RFH5;Q9H6T0;Q8NBZ0;P62263;Q9Y473;Q9NTM9;O43324;Q8NE  
 M1;Q9H0E9;Q14683;Q9NXV6;P78347;Q9UBW8;Q9Y5K6;Q9BVI4;O43236;Q9BSJ2;Q15007;Q5VZE5;Q70IA  
 6;Q92993;Q1ED39;Q9Y5S9;Q8WXX9;Q8NCEO;Q9BUL9;Q16143;Q12824;P42771;Q53HV7;P38432;Q9BQ70  
 ;Q12996;Q92905;Q9H1B4;Q5H9F3;O43251;Q6P4R8;Q15061;O14503;O75528;Q9NZM5;P11142;Q9NRY2;  
 Q92585;P61573;Q9Y222;P61576;Q15650;Q8WY54;Q9NRX1;Q6IEG0;Q9Y421;P51610;Q96DI7;O94776;Q  
 9NY74;O43719;Q6PJT7;Q9Y221;P56181;P28324;Q6UB98;O60216;Q8TDN6;Q8TED0;O43299;P46783;Q9  
 2785;A6NHQ2;Q15319;Q9BSC4;Q86VM9;Q9H1J1;Q6PI98;P01100;Q5JVG8;P42285;O15234;O00534;Q8N  
 DT2;P52756;Q53GL7;Q96JB2}

5900 [Cluster 537]GO:0035101+C cellular\_component [name] FACT complex [def] "An abundant  
 nuclear complex, which was originally identified in mammalian systems as a factor  
 required for transcription elongation on chromatin templates. The FACT complex has been  
 shown to destabilize the interaction between the H2A/H2B dimer and the H3/H4 tetramer of  
 the nucleosome, thus reorganizing the structure of the nucleosome. In this way, the FACT  
 complex may play a role in DNA replication and other processes that traverse the  
 chromatin, as well as in transcription elongation. FACT is composed of two proteins that  
 are evolutionarily conserved in all eukaryotes and homologous to mammalian Spt16 and  
 SSRP1. In metazoans, the SSRP1 homolog contains an HMG domain\_ however in fungi and  
 protists, it does not. For example, in *S. cerevisiae* the Pob3 protein is homologous to  
 SSRP1, but lacks the HMG chromatin binding domain. Instead, the yFACT complex of Spt16p  
 and Pob3p, binds to nucleosomes where multiple copies of the HMG-domain containing  
 protein Nhp6p have already bound, but Nhp6p does not form a stable complex with the  
 Spt16p/Pob3p heterodimer." [GOC

- 5901 Pathogen[ Q2Q067] interacts with 2 human partners:{Q96HA7;Q6ZRQ5}
- 5902 Pathogen[ P0C214] interacts with 2 human partners:{Q6ZRQ5;Q96HA7}
- 5903 Pathogen[ P03346] interacts with 2 human partners:{Q96HA7;Q6ZRQ5}
- 5904 Pathogen[ Q85601] interacts with 2 human partners:{Q96HA7;Q6ZRQ5}
- 5905 Pathogen[ P14079] interacts with 2 human partners:{Q96HA7;Q6ZRQ5}
- 5906 Pathogen[ P03383] interacts with 2 human partners:{Q6ZRQ5;Q96HA7}
- 5907 Pathogen[ P03410] interacts with 2 human partners:{Q96HA7;Q6ZRQ5}
- 5908 Pathogen[ P14075] interacts with 2 human partners:{Q6ZRQ5;Q96HA7}
- 5909 Pathogen[ P0C206] interacts with 2 human partners:{Q96HA7;Q6ZRQ5}
- 5910 Pathogen[ P03363] interacts with 2 human partners:{Q96HA7;Q6ZRQ5}

5911 [Cluster 538]GO:0012510+C cellular\_component [name] trans-Golgi network transport  
 vesicle membrane [def] "The lipid bilayer surrounding a vesicle transporting  
 substances between the trans-Golgi network and other parts of the cell." [GOC

- 5912 Pathogen[ Q2Q067] interacts with 1 human partners:{075901}
- 5913 Pathogen[ P0C214] interacts with 1 human partners:{075901}
- 5914 Pathogen[ P03346] interacts with 1 human partners:{075901}
- 5915 Pathogen[ Q85601] interacts with 1 human partners:{075901}
- 5916 Pathogen[ P14079] interacts with 1 human partners:{075901}
- 5917 Pathogen[ P03383] interacts with 1 human partners:{075901}
- 5918 Pathogen[ P03410] interacts with 1 human partners:{075901}
- 5919 Pathogen[ P14075] interacts with 1 human partners:{075901}
- 5920 Pathogen[ P0C206] interacts with 1 human partners:{075901}
- 5921 Pathogen[ P03363] interacts with 1 human partners:{075901}

5922 [Cluster 539]GO:0030677+C cellular\_component [name] ribonuclease P complex [def] "A  
 ribonucleoprotein complex that catalyzes cleavage of the leader sequence of precursor  
 tRNAs (pre-tRNAs), generating the mature 5' end of tRNAs." [GOC

- 5923 Pathogen[ Q2Q067] interacts with 1 human partners:{095707}
- 5924 Pathogen[ P0C214] interacts with 1 human partners:{095707}
- 5925 Pathogen[ P03346] interacts with 1 human partners:{095707}
- 5926 Pathogen[ Q85601] interacts with 1 human partners:{095707}
- 5927 Pathogen[ P14079] interacts with 1 human partners:{095707}
- 5928 Pathogen[ P03383] interacts with 1 human partners:{095707}



5929 Pathogen[ P03410] interacts with 1 human partners:{095707}

5930 Pathogen[ P14075] interacts with 1 human partners:{095707}

5931 Pathogen[ P0C206] interacts with 1 human partners:{095707}

5932 Pathogen[ P03363] interacts with 1 human partners:{095707}

5933 [Cluster 540]GO:0016581+C cellular\_component [name] NuRD complex [def] "An approximately 2 Mda multi-subunit complex that exhibits ATP-dependent chromatin remodeling activity in addition to histone deacetylase (HDAC) activity, and has been shown to establish transcriptional repression of a number of target genes in vertebrates, invertebrates and fungi. Amongst its subunits, the NuRD complex contains histone deacetylases, histone binding proteins and Mi-2-like proteins." [PMID

5934 Pathogen[ Q2Q067] interacts with 13 human partners:{Q13547;O94776;Q86YP4;Q8NEU8;Q09028;Q13330;Q92769;Q12873;Q14839;O95983;Q9NSC2;Q9UKG1;Q16576}

5935 Pathogen[ P0C214] interacts with 13 human partners:{Q13330;Q13547;Q12873;Q9UKG1;Q09028;O94776;O95983;Q86YP4;Q8NEU8;Q92769;Q16576;Q9NSC2;Q14839}

5936 Pathogen[ P03346] interacts with 14 human partners:{Q9Y467;O95983;Q9NSC2;O94776;Q8NEU8;Q86YP4;Q92769;Q13547;Q09028;Q13330;Q16576;Q9UKG1;Q12873;Q14839}

5937 Pathogen[ Q85601] interacts with 13 human partners:{O94776;Q8NEU8;O95983;Q86YP4;Q92769;Q16576;Q12873;Q13330;Q09028;Q9UKG1;Q13547;Q9NSC2;Q14839}

5938 Pathogen[ P14079] interacts with 12 human partners:{Q9UKG1;Q8NEU8;Q13330;Q86YP4;Q16576;Q12873;Q92769;O95983;Q14839;Q09028;O94776;Q9NSC2}

5939 Pathogen[ P03383] interacts with 12 human partners:{Q09028;Q14839;O94776;Q86YP4;Q8NEU8;Q13330;Q12873;Q92769;Q9NSC2;Q13547;O95983;Q16576}

5940 Pathogen[ P03410] interacts with 13 human partners:{Q12873;Q86YP4;Q16576;Q09028;Q92769;Q13330;O95983;O94776;Q13547;Q8NEU8;Q9NSC2;Q14839;Q9UKG1}

5941 Pathogen[ P14075] interacts with 12 human partners:{Q9NSC2;Q16576;Q14839;O94776;Q8NEU8;Q13547;Q09028;O95983;Q92769;Q13330;Q12873;Q86YP4}

5942 Pathogen[ P0C206] interacts with 13 human partners:{Q92769;Q9UKG1;Q8NEU8;Q9NSC2;O95983;Q13547;O94776;Q86YP4;Q13330;Q14839;Q16576;Q09028;Q12873}

5943 Pathogen[ P03363] interacts with 12 human partners:{Q86YP4;Q09028;Q9Y467;Q14839;Q8NEU8;Q16576;O95983;Q13547;Q12873;Q13330;Q9UKG1;O94776}

5944 [Cluster 541]GO:0005758+C cellular\_component [name] mitochondrial intermembrane space [def] "The region between the inner and outer lipid bilayers of the mitochondrial envelope." [GOC

5945 Pathogen[ Q2Q067] interacts with 14 human partners:{Q8TCS8;Q9Y2Y0;O43920;Q9NR28;O60220;Q9Y5J6;P99999;Q9H4A6;P62072;Q9Y5J7;O95831;O14925;Q9H3M7;P78537}

5946 Pathogen[ P0C214] interacts with 23 human partners:{P50440;Q9H4A6;P28331;Q9H3M7;O43920;O60220;P17568;P34897;P78537;P55789;P62072;O14925;P99999;Q8TCS8;Q9Y5J6;Q9BZ23;Q9Y5J7;Q9Y2Y0;Q8N4Q1;P36551;Q9NR28;Q14061;P36404}

5947 Pathogen[ P03346] interacts with 16 human partners:{O14925;Q8N4Q1;Q9NR28;Q9H4A6;Q9Y5J7;P99999;Q9Y5J6;P78537;O43920;O60220;Q8TCS8;P36404;P62072;O95831;Q9Y2Y0;Q9H3M7}

5948 Pathogen[ Q85601] interacts with 15 human partners:{O14925;P99999;O95831;P62072;Q9Y5J6;Q9Y2Y0;O60220;Q9Y5J7;Q9NR28;P78537;O43920;Q8TCS8;Q14061;Q9H4A6;Q9H3M7}

5949 Pathogen[ P14079] interacts with 25 human partners:{P62072;Q6YFQ2;Q9Y2Y0;P17568;Q9Y5J7;P34897;O14925;P14854;Q14061;O95831;Q9BZ23;P51970;Q9NR28;P55789;Q8N4Q1;O60220;Q9H3M7;O43920;P36551;P50440;P99999;Q9H4A6;P78537;Q8TCS8;Q9NRP4}

5950 Pathogen[ P03383] interacts with 15 human partners:{Q9Y2Y0;Q9Y5J7;P62072;O14925;O43920;O95831;Q8TCS8;O60220;P78537;Q9Y5J6;P99999;Q9H4A6;Q9BZ23;Q9H3M7;Q9NR28}

5951 Pathogen[ P03410] interacts with 26 human partners:{P78537;P17568;Q8TCS8;P62072;Q14061;Q9NR28;Q9Y5J7;P51970;O43920;Q9H3M7;Q6YFQ2;Q9H4A6;P36551;Q9NRP4;O14925;O95831;Q9BZ23;P99999;Q9Y5J6;O60220;P14854;P55789;Q9Y2Y0;P50440;Q8N4Q1;P34897}

5952 Pathogen[ P14075] interacts with 18 human partners:{P78537;O14925;P62072;Q9Y2Y0;O43920;Q9NR28;P99999;O95831;O60220;Q9H3M7;Q9BZ23;P55789;Q8TCS8;Q9Y5J7;Q14061;Q9H4A6;P50440;Q9Y5J6}

5953 Pathogen[ P0C206] interacts with 22 human partners:{P99999;Q9Y5J6;Q9H4A6;P55789;P78537;Q8TCS8;Q9NR28;O43920;O60220;P36551;P34897;Q9BZ23;Q8N4Q1;Q9Y5J7;P17568;O95831;P50440;O14925;P62072;Q9H3M7;Q9Y2Y0;Q14061}

5954 Pathogen[ P03363] interacts with 9 human partners:{P99999;P78537;O14925;Q9H3M7;Q9H4A6;Q9NR28;Q9Y5J7;Q9Y2Y0;O95831}

5955 [Cluster 542]GO:0030132+C cellular\_component [name] clathrin coat of coated pit [def]

"The coat found on coated pits and the coated vesicles derived from coated pits\_ comprises clathrin and the AP-2 adaptor complex." [GOC

5956 Pathogen[ Q2Q067] interacts with 5 human partners:{P53675;Q96CW1;Q00610;P09497;P09496}

5957 Pathogen[ P0C214] interacts with 4 human partners:{Q96CW1;P53675;P09497;P09496}

5958 Pathogen[ P03346] interacts with 6 human partners:{P09496;Q96CW1;P53675;Q13492;P09497;Q00610}

5959 Pathogen[ Q85601] interacts with 5 human partners:{P53675;Q00610;P09496;Q96CW1;P09497}

5960 Pathogen[ P14079] interacts with 6 human partners:{Q13492;Q96CW1;Q00610;P09497;P53675;P09496}

5961 Pathogen[ P03383] interacts with 4 human partners:{Q96CW1;Q00610;P53675;P09497}

5962 Pathogen[ P03410] interacts with 6 human partners:{Q00610;P09496;Q96CW1;Q13492;P09497;P53675}

5963 Pathogen[ P14075] interacts with 5 human partners:{P09497;P09496;Q96CW1;P53675;Q00610}

5964 Pathogen[ P0C206] interacts with 5 human partners:{P53675;Q00610;P09496;P09497;Q96CW1}

5965 Pathogen[ P03363] interacts with 4 human partners:{Q00610;P09497;P53675;Q96CW1}

5966 [Cluster 543]GO:0005850+C cellular\_component [name] eukaryotic translation initiation factor 2 complex [def] "Complex of three heterogeneous polypeptide chains, that form a ternary complex with initiator methionyl-tRNA and GTP. This ternary complex binds to free 40S subunit, which subsequently binds the 5' end of mRNA." [PMID

5967 Pathogen[ Q2Q067] interacts with 4 human partners:{P05198;Q9BY44;Q14232;P20042}

5968 Pathogen[ P0C214] interacts with 4 human partners:{Q9BY44;Q14232;P05198;P20042}

5969 Pathogen[ P03346] interacts with 4 human partners:{Q14232;Q9BY44;P20042;P05198}

5970 Pathogen[ Q85601] interacts with 4 human partners:{Q9BY44;P20042;P05198;Q14232}

5971 Pathogen[ P14079] interacts with 4 human partners:{P20042;Q9BY44;P05198;Q14232}

5972 Pathogen[ P03383] interacts with 4 human partners:{Q9BY44;P20042;P05198;Q14232}

5973 Pathogen[ P03410] interacts with 4 human partners:{P20042;Q14232;Q9BY44;P05198}

5974 Pathogen[ P14075] interacts with 4 human partners:{P20042;P05198;Q14232;Q9BY44}

5975 Pathogen[ P0C206] interacts with 4 human partners:{P20042;Q14232;P05198;Q9BY44}

5976 Pathogen[ P03363] interacts with 3 human partners:{Q9BY44;P05198;P20042}

5977 [Cluster 544]GO:0005673+C cellular\_component [name] transcription factor TFIIE complex [def] "A transcription factor which in humans consists of a complex of two alpha and two beta chains. Recruits TFIIH to the initiation complex and helps activate both RNA polymerase II and TFIIH." [GOC

5978 Pathogen[ Q2Q067] interacts with 1 human partners:{P29084}

5979 Pathogen[ P0C214] interacts with 1 human partners:{P29084}

5980 Pathogen[ P03346] interacts with 1 human partners:{P29084}

5981 Pathogen[ Q85601] interacts with 1 human partners:{P29084}

5982 Pathogen[ P14079] interacts with 1 human partners:{P29084}

5983 Pathogen[ P03383] interacts with 1 human partners:{P29084}

5984 Pathogen[ P03410] interacts with 1 human partners:{P29084}

5985 Pathogen[ P14075] interacts with 1 human partners:{P29084}

5986 Pathogen[ P0C206] interacts with 1 human partners:{P29084}

5987 Pathogen[ P03363] interacts with 1 human partners:{P29084}

5988 [Cluster 545]GO:0005852+C cellular\_component [name] eukaryotic translation initiation factor 3 complex [def] "A complex of several polypeptides that plays at least two important roles in protein synthesis

5989 Pathogen[ Q2Q067] interacts with 13 human partners:{Q7L2H7;Q99613;O00303;Q9UBQ5;Q14152;Q92905;Q9Y262;P60228;O75822;O15371;O75821;O15372;Q13347}

5990 Pathogen[ P0C214] interacts with 15 human partners:{P60228;Q9Y262;O15372;Q14152;Q99613;O75821;O00303;Q92905;Q7L2H7;O75822;P55884;B5ME19;Q9UBQ5;O15371;Q13347}

5991 Pathogen[ P03346] interacts with 15 human partners:{B5ME19;Q9UBQ5;Q13347;P55884;Q14152;O75821;O00303;P60228;Q7L2H7;Q99613;Q92905;O75822;O15371;O15372;Q9Y262}

5992 Pathogen[ Q85601] interacts with 14 human partners:{Q99613;Q9UBQ5;O00303;O15371;B5ME19;P60228;Q92905;Q9Y262;Q7L2H7;Q13347;O75822;Q14152;O15372;O75821}

5993 Pathogen[ P14079] interacts with 14 human partners:{Q7L2H7;O00303;O75821;O15371;B5ME19;O75822;Q99613;Q92905;Q9Y262;Q13347;Q9UBQ5;Q14152;O15372;P55884}

5994 Pathogen[ P03383] interacts with 12 human partners:{O15371;Q9UBQ5;P60228;Q92905;Q9Y262;Q14152;Q7L2H7;Q99613;O75822;Q13347;O15372;O75821}

5995 Pathogen[ P03410] interacts with 15 human partners:{O75822;B5ME19;O15372;Q92905;Q7L2H7;Q99613;Q14152;P55884;O15371;O00303;O75821;Q13347;Q9Y262;P60228;Q9UBQ5}

5996 Pathogen[ P14075] interacts with 12 human partners:{O15372;Q7L2H7;Q99613;O75821;O15371;P60228;Q9Y262;Q13347;O75822;Q9UBQ5;Q92905;Q14152}

5997 Pathogen[ P0C206] interacts with 14 human partners:{Q7L2H7;Q99613;P60228;B5ME19;Q14152;O15371;O75821;Q13347;O00303;Q9Y262;O15372;O75822;Q9UBQ5;Q92905;Q14152}

2;O75822;Q92905;Q9UBQ5}

5998 Pathogen[ P03363] interacts with 15 human partners:{O15371;Q13347;Q9UBQ5;Q14152;O15372;Q7L2H7;B5ME19;P60228;Q9Y262;O75821;P55884;Q92905;O75822;Q99613;O00303}

5999 [Cluster 546]GO:0005915+C cellular\_component [name] zonula adherens [def] "A cell-cell adherens junction which forms a continuous belt near the apex of epithelial cells." [ISBN

6000 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9P1Y5;Q9BX66}

6001 Pathogen[ P0C214] interacts with 2 human partners:{Q9P1Y5;Q9BX66}

6002 Pathogen[ P03346] interacts with 3 human partners:{Q9P1Y5;Q9BX66;Q6IQ23}

6003 Pathogen[ Q85601] interacts with 3 human partners:{Q9BX66;Q9P1Y5;Q6IQ23}

6004 Pathogen[ P14079] interacts with 3 human partners:{Q6IQ23;Q9P1Y5;Q9BX66}

6005 Pathogen[ P03383] interacts with 1 human partners:{Q9P1Y5}

6006 Pathogen[ P03410] interacts with 3 human partners:{Q9P1Y5;Q9BX66;Q6IQ23}

6007 Pathogen[ P14075] interacts with 1 human partners:{Q9P1Y5}

6008 Pathogen[ P0C206] interacts with 3 human partners:{Q9P1Y5;Q9BX66;Q6IQ23}

6009 Pathogen[ P03363] interacts with 3 human partners:{Q9BX66;Q9P1Y5;Q6IQ23}

6010 [Cluster 547]GO:0005762+C cellular\_component [name] mitochondrial large ribosomal subunit [def] "The larger of the two subunits of a mitochondrial ribosome. Two sites on the ribosomal large subunit are involved in translation

6011 Pathogen[ Q2Q067] interacts with 12 human partners:{Q96CB9;Q96EL2;Q9BYD1;Q4U2R6;Q9P0M9;Q9P0J6;Q8IXM3;P52815;Q7Z7F7;Q86TS9;Q7Z6M4;P09001}

6012 Pathogen[ P0C214] interacts with 14 human partners:{Q96EL2;Q9BYD1;Q16540;Q86TS9;Q4U2R6;Q8IXM3;P09001;Q7Z6M4;Q14197;Q9P0J6;Q7Z7F7;Q9P0M9;P52815;Q96CB9}

6013 Pathogen[ P03346] interacts with 13 human partners:{Q96EL2;Q9BYD1;Q9P0J6;Q8IXM3;P09001;Q7Z7F7;Q7Z6M4;Q4U2R6;Q86TS9;P52815;Q7Z7H8;Q96CB9;Q9P0M9}

6014 Pathogen[ Q85601] interacts with 12 human partners:{P52815;P09001;Q96EL2;Q9BYD1;Q7Z6M4;Q4U2R6;Q9P0M9;Q7Z7F7;Q8IXM3;Q86TS9;Q9P0J6;Q96CB9}

6015 Pathogen[ P14079] interacts with 15 human partners:{Q8IXM3;P52815;Q7Z7F7;Q4U2R6;Q16540;Q9P0M9;P09001;Q86TS9;Q9BYD1;Q7Z7H8;Q7Z6M4;Q96CB9;Q9P0J6;Q14197;Q96EL2}

6016 Pathogen[ P03383] interacts with 12 human partners:{Q96EL2;Q9BYD1;Q9P0J6;P09001;Q9P0M9;Q86TS9;Q8IXM3;P52815;Q7Z6M4;Q7Z7F7;Q96CB9;Q4U2R6}

6017 Pathogen[ P03410] interacts with 15 human partners:{Q7Z7F7;Q9P0M9;Q16540;Q96CB9;Q9P0J6;P52815;Q9BYD1;Q4U2R6;Q14197;Q8IXM3;Q96EL2;Q86TS9;P09001;Q7Z7H8;Q7Z6M4}

6018 Pathogen[ P14075] interacts with 13 human partners:{P52815;Q96EL2;Q9BYD1;Q9P0M9;Q96CB9;Q86TS9;Q8IXM3;P09001;Q7Z7H8;Q4U2R6;Q7Z7F7;Q9P0J6;Q7Z6M4}

6019 Pathogen[ P0C206] interacts with 14 human partners:{Q7Z6M4;Q8IXM3;Q96CB9;Q96EL2;Q4U2R6;Q7Z7H8;P09001;Q9P0M9;Q9P0J6;Q86TS9;Q9BYD1;Q14197;Q7Z7F7;P52815}

6020 Pathogen[ P03363] interacts with 11 human partners:{Q96EL2;Q9BYD1;Q8IXM3;Q9P0J6;P52815;Q7Z7F7;Q4U2R6;Q9P0M9;Q7Z7H8;P09001;Q86TS9}

6021 [Cluster 548]GO:0070552+C cellular\_component [name] BRISC complex [def] "A protein complex that contains the FAM175B/ABRO1, BRCC3/BRCC36, BRE/BRCC45 and MERIT40/NBA1 proteins, and specifically cleaves K63-linked polyubiquitin chains." [GOC

6022 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9NWX8;Q9NXX7}

6023 Pathogen[ P0C214] interacts with 2 human partners:{Q9NWX8;Q9NXX7}

6024 Pathogen[ P03346] interacts with 2 human partners:{Q9NXX7;Q9NWX8}

6025 Pathogen[ Q85601] interacts with 2 human partners:{Q9NWX8;Q9NXX7}

6026 Pathogen[ P14079] interacts with 3 human partners:{Q15018;Q9NXX7;Q9NWX8}

6027 Pathogen[ P03383] interacts with 2 human partners:{Q9NWX8;Q9NXX7}

6028 Pathogen[ P03410] interacts with 3 human partners:{Q9NXX7;Q9NWX8;Q15018}

6029 Pathogen[ P14075] interacts with 2 human partners:{Q9NWX8;Q9NXX7}

6030 Pathogen[ P0C206] interacts with 3 human partners:{Q9NWX8;Q15018;Q9NXX7}

6031 Pathogen[ P03363] interacts with 2 human partners:{Q9NWX8;Q9NXX7}

6032 [Cluster 549]GO:0008622+C cellular\_component [name] epsilon DNA polymerase complex [def] "A heterotetrameric DNA polymerase complex that catalyzes processive DNA synthesis in the absence of PCNA, but is further stimulated in the presence of PCNA. The complex contains a large catalytic subunit and three small subunits, and is best characterized in *Saccharomyces*, in which the subunits are named Pol2p, Dpb2p, Dpb3p, and Dpb4p. Some evidence suggests that DNA polymerase epsilon is the leading strand polymerase\_ it is also involved in nucleotide-excision repair and mismatch repair." [PMID

6033 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9NRF9;P56282}

6034 Pathogen[ P0C214] interacts with 2 human partners:{Q9NRF9;P56282}

6035 Pathogen[ P03346] interacts with 3 human partners:{P56282;Q9NR33;Q9NRF9}

6036 Pathogen[ Q85601] interacts with 2 human partners:{P56282;Q9NRF9}

6037 Pathogen[ P14079] interacts with 4 human partners:{Q9NRG0;Q9NRF9;P56282;Q9NR33}

6038 Pathogen[ P03383] interacts with 1 human partners:{P56282}

6039 Pathogen[ P03410] interacts with 4 human partners: {Q9NRG0;P56282;Q9NRF9;Q9NR33}

6040 Pathogen[ P14075] interacts with 1 human partners: {P56282}

6041 Pathogen[ P0C206] interacts with 3 human partners: {Q9NRF9;Q9NR33;P56282}

6042 Pathogen[ P03363] interacts with 2 human partners: {Q9NRF9;Q9NR33}

6043 [Cluster 550]GO:0000015+C cellular\_component [name] phosphopyruvate hydratase complex [def] "A multimeric enzyme complex, usually a dimer or an octamer, that catalyzes the conversion of 2-phospho-D-glycerate to phosphoenolpyruvate and water." [GOC

6044 Pathogen[ Q2Q067] interacts with 3 human partners: {P13929;A6NNW6;P06733}

6045 Pathogen[ P0C214] interacts with 4 human partners: {P13929;A6NNW6;P09104;P06733}

6046 Pathogen[ P03346] interacts with 3 human partners: {A6NNW6;P13929;P06733}

6047 Pathogen[ Q85601] interacts with 2 human partners: {P06733;P13929}

6048 Pathogen[ P14079] interacts with 3 human partners: {A6NNW6;P06733;P13929}

6049 Pathogen[ P03383] interacts with 2 human partners: {A6NNW6;P06733}

6050 Pathogen[ P03410] interacts with 3 human partners: {P06733;P13929;A6NNW6}

6051 Pathogen[ P14075] interacts with 2 human partners: {P06733;A6NNW6}

6052 Pathogen[ P0C206] interacts with 3 human partners: {P06733;A6NNW6;P13929}

6053 Pathogen[ P03363] interacts with 2 human partners: {P06733;A6NNW6}

6054 [Cluster 551]GO:0031592+C cellular\_component [name] centrosomal corona [def] "An amorphous structure surrounding the core of the centrosome, from which microtubules are nucleated\_ contains gamma-tubulin." [GOC

6055 Pathogen[ Q2Q067] interacts with 1 human partners: {Q7Z460}

6056 Pathogen[ P0C214] interacts with 1 human partners: {Q7Z460}

6057 Pathogen[ P03346] interacts with 1 human partners: {Q7Z460}

6058 Pathogen[ Q85601] interacts with 1 human partners: {Q7Z460}

6059 Pathogen[ P14079] interacts with 1 human partners: {Q7Z460}

6060 Pathogen[ P03383] interacts with 1 human partners: {Q7Z460}

6061 Pathogen[ P03410] interacts with 1 human partners: {Q7Z460}

6062 Pathogen[ P14075] interacts with 1 human partners: {Q7Z460}

6063 Pathogen[ P0C206] interacts with 1 human partners: {Q7Z460}

6064 Pathogen[ P03363] interacts with 1 human partners: {Q7Z460}

6065 [Cluster 552]GO:0032585+C cellular\_component [name] multivesicular body membrane [def] "The lipid bilayer surrounding a multivesicular body." [GOC

6066 Pathogen[ Q2Q067] interacts with 1 human partners: {O14964}

6067 Pathogen[ P0C214] interacts with 2 human partners: {O14964;Q9NV92}

6068 Pathogen[ P03346] interacts with 2 human partners: {Q9NV92;O14964}

6069 Pathogen[ Q85601] interacts with 1 human partners: {O14964}

6070 Pathogen[ P14079] interacts with 1 human partners: {Q9NV92}

6071 Pathogen[ P03383] interacts with 1 human partners: {O14964}

6072 Pathogen[ P03410] interacts with 1 human partners: {Q9NV92}

6073 Pathogen[ P14075] interacts with 2 human partners: {O14964;Q9NV92}

6074 Pathogen[ P0C206] interacts with 2 human partners: {O14964;Q9NV92}

6075 Pathogen[ P03363] interacts with 1 human partners: {O14964}

6076 [Cluster 553]GO:0033596+C cellular\_component [name] TSC1-TSC2 complex [def] "A heterodimeric protein complex consisting of tuberin and hamartin\_ its formation may regulate hamartin homomultimer formation. The complex acts as a GTPase activating protein (GAP) for the small GTPase (Rheb), and inhibits the TOR signaling pathway." [PMID

6077 Pathogen[ Q2Q067] interacts with 1 human partners: {P07196}

6078 Pathogen[ P0C214] interacts with 1 human partners: {P07196}

6079 Pathogen[ P03346] interacts with 1 human partners: {P07196}

6080 Pathogen[ Q85601] interacts with 1 human partners: {P07196}

6081 Pathogen[ P14079] interacts with 1 human partners: {P07196}

6082 Pathogen[ P03383] interacts with 1 human partners: {P07196}

6083 Pathogen[ P03410] interacts with 1 human partners: {P07196}

6084 Pathogen[ P14075] interacts with 1 human partners: {P07196}

6085 Pathogen[ P0C206] interacts with 1 human partners: {P07196}

6086 Pathogen[ P03363] interacts with 1 human partners: {P07196}

6087 [Cluster 554]GO:0005902+C cellular\_component [name] microvillus [def] "Thin cylindrical membrane-covered projections on the surface of an animal cell containing a core bundle of actin filaments. Present in especially large numbers on the absorptive surface of intestinal cells." [ISBN

6088 Pathogen[ Q2Q067] interacts with 2 human partners: {P36543;Q9NZC7}

6089 Pathogen[ P0C214] interacts with 4 human partners: {O00159;Q9UM54;P36543;Q9NZC7}

6090 Pathogen[ P03346] interacts with 3 human partners: {P36543;P26038;Q9NZC7}

6091 Pathogen[ Q85601] interacts with 4 human partners: {Q9NZC7;O00159;Q9UM54;P36543}

6092 Pathogen[ P14079] interacts with 7 human partners: {P36543;P09327;P27352;P26038;Q9UM54;Q9NZC7;P35241}

6093 Pathogen[ P03383] interacts with 1 human partners: {P36543}

6094 Pathogen[ P03410] interacts with 7 human partners: {Q9NZC7;O00159;Q9UM54;P26038;P35241;P27352;P36543}

6095 Pathogen[ P14075] interacts with 1 human partners: {P36543}

6096 Pathogen[ P0C206] interacts with 4 human partners: {Q9UM54;P36543;O00159;Q9NZC7}

6097 Pathogen[ P03363] interacts with 1 human partners: {P36543}

6098 [Cluster 555]GO:0016591+C cellular\_component [name] DNA-directed RNA polymerase II, holoenzyme [def] "Large protein complex composed of the RNA polymerase core complex and a variety of other proteins including transcription factor complexes TFIIA, D, E, F, and H which are required for promoter recognition, and the Mediator subcomplex. Catalyzes the

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synthesis of eukaryotic pre-mRNA." [GOC
6099 Pathogen[ Q2Q067] interacts with 9 human
partners:{Q9H9T3;O95163;Q8IXW5;Q9NQG5;Q6IA86;P24863;Q96EB1;P28715;P51946}
6100 Pathogen[ P0C214] interacts with 10 human
partners:{P51946;P24863;Q9UM54;Q8IXW5;Q6IA86;P28715;Q9NQG5;Q9H9T3;Q96EB1;O95163}
6101 Pathogen[ P03346] interacts with 11 human
partners:{P28715;Q9NQG5;P0CAP2;Q8IXW5;P24863;O95163;Q9H9T3;Q9BZD3;P51946;Q6IA86;Q96EB
1}
6102 Pathogen[ Q85601] interacts with 10 human
partners:{P51946;Q9H9T3;Q9NQG5;P28715;Q8IXW5;Q96EB1;Q6IA86;P24863;Q9UM54;O95163}
6103 Pathogen[ P14079] interacts with 14 human
partners:{P28715;P51946;Q6IA86;Q9BZD3;O95163;Q96EB1;Q9UM54;Q8IXW5;Q9H9T3;P24863;Q96P1
6;Q5VT52;Q9NQG5;P0CAP2}
6104 Pathogen[ P03383] interacts with 9 human
partners:{O95163;P0CAP2;Q8IXW5;Q9NQG5;Q96EB1;P51946;P24863;Q6IA86;Q9H9T3}
6105 Pathogen[ P03410] interacts with 14 human
partners:{Q9NQG5;Q5VT52;Q9BZD3;P51946;Q96P16;Q9H9T3;Q96EB1;P28715;Q9UM54;O95163;P0CAP
2;P24863;Q8IXW5;Q6IA86}
6106 Pathogen[ P14075] interacts with 10 human
partners:{Q96EB1;Q8IXW5;P24863;P0CAP2;Q9BZD3;Q9NQG5;Q6IA86;P51946;O95163;Q9H9T3}
6107 Pathogen[ P0C206] interacts with 14 human
partners:{P24863;Q8IXW5;P28715;Q9UM54;Q9H9T3;Q6IA86;Q9NQG5;O94762;O95163;Q96EB1;P0CAP
2;Q9BZD3;Q5VT52;P51946}
6108 Pathogen[ P03363] interacts with 11 human
partners:{O94762;Q6IA86;P24863;P51946;Q8IXW5;Q9BZD3;Q9NQG5;Q96EB1;O95163;P0CAP2;Q9H9T
3}
6109 [Cluster 556]GO:0031252+C cellular_component [name] cell leading edge [def] "The
area of a motile cell closest to the direction of movement." [GOC
6110 Pathogen[ Q2Q067] interacts with 9 human
partners:{P63104;Q14160;P54259;Q9HD15;Q8IZP0;Q14203;P35579;P08670;Q8N9B5}
6111 Pathogen[ P0C214] interacts with 8 human
partners:{Q8IZP0;Q14203;Q9HD15;P08670;Q14160;Q8N9B5;O15144;P54259}
6112 Pathogen[ P03346] interacts with 10 human
partners:{Q8N9B5;O15144;P35579;Q8IZP0;Q9HD15;Q14203;P08670;P63104;Q14160;P54259}
6113 Pathogen[ Q85601] interacts with 11 human
partners:{P54259;P63104;P08670;P35579;Q14203;Q9HD15;Q14160;Q8IZP0;Q8N9B5;Q9GZM8;O1514
4}
6114 Pathogen[ P14079] interacts with 12 human
partners:{P35579;Q8N9B5;Q8IZP0;P63104;P61158;Q9HD15;Q9GZM8;P54259;P08670;P49023;Q1420
3;O15144}
6115 Pathogen[ P03383] interacts with 8 human
partners:{Q14160;P08670;Q14203;Q9HD15;P63104;Q8N9B5;P35579;P54259}
6116 Pathogen[ P03410] interacts with 11 human
partners:{Q9GZM8;P35579;Q14160;Q8IZP0;P08670;P63104;Q8N9B5;P54259;O15144;Q9HD15;Q1420
3}
6117 Pathogen[ P14075] interacts with 8 human
partners:{Q14160;P63104;P35579;P08670;P54259;Q14203;Q8N9B5;Q9HD15}
6118 Pathogen[ P0C206] interacts with 11 human
partners:{Q9HD15;Q9GZM8;Q8N9B5;P54259;P63104;Q8IZP0;Q14160;P35579;O15144;P08670;Q1420
3}
6119 Pathogen[ P03363] interacts with 10 human
partners:{Q8IZP0;P35579;P54259;Q9HD15;Q14160;P63104;O15144;P08670;Q14203;Q8N9B5}
6120 [Cluster 557]GO:0071944+C cellular_component [name] cell periphery [def] "The part
of a cell encompassing the cell cortex, the plasma membrane, and any external
encapsulating structures." [GOC
6121 Pathogen[ Q2Q067] interacts with 5 human
partners:{P08727;Q04695;Q9H6U6;P60953;P02533}
6122 Pathogen[ P0C214] interacts with 6 human
partners:{Q8TE04;P02533;P60953;Q04695;Q9H6U6;P08727}
6123 Pathogen[ P03346] interacts with 6 human
partners:{P08727;P60953;Q04695;P02533;Q969F2;Q9H6U6}
6124 Pathogen[ Q85601] interacts with 5 human
partners:{P02533;Q04695;Q9H6U6;P08727;P60953}
6125 Pathogen[ P14079] interacts with 6 human
partners:{Q8TE04;Q04695;P02533;Q9H6U6;P63267;P08727}
6126 Pathogen[ P03383] interacts with 5 human
partners:{P02533;Q9H6U6;P08727;P60953;Q04695}
6127 Pathogen[ P03410] interacts with 7 human
partners:{Q969F2;P02533;Q8TE04;Q04695;P60953;P08727;Q9H6U6}
6128 Pathogen[ P14075] interacts with 6 human
partners:{P60953;P08727;Q04695;Q8TE04;Q9H6U6;P02533}
6129 Pathogen[ P0C206] interacts with 7 human
partners:{Q969F2;P08727;Q8TE04;Q9H6U6;P60953;P02533;Q04695}
6130 Pathogen[ P03363] interacts with 5 human
partners:{P02533;Q9H6U6;P08727;P60953;Q04695}
6131 [Cluster 558]GO:0005712+C cellular_component [name] chiasma [def] "A connection

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formed between chromatids, visible during meiosis, thought to be the point of the interchange involved in crossing-over." [ISBN

6132 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UHC1}

6133 Pathogen[ P0C214] interacts with 2 human partners:{Q9UHC1;P40692}

6134 Pathogen[ P03346] interacts with 1 human partners:{Q9UHC1}

6135 Pathogen[ Q85601] interacts with 2 human partners:{Q9UHC1;P40692}

6136 Pathogen[ P14079] interacts with 2 human partners:{P40692;Q9UHC1}

6137 Pathogen[ P03383] interacts with 1 human partners:{Q9UHC1}

6138 Pathogen[ P03410] interacts with 2 human partners:{P40692;Q9UHC1}

6139 Pathogen[ P14075] interacts with 1 human partners:{Q9UHC1}

6140 Pathogen[ P0C206] interacts with 2 human partners:{P40692;Q9UHC1}

6141 Pathogen[ P03363] interacts with 1 human partners:{Q9UHC1}

6142 [Cluster 559]GO:0031080+C cellular\_component [name] Nup107-160 complex [def] "A subcomplex of the nuclear pore complex (NPC) involved in mRNA export and NPC assembly. Contains conserved nucleoporins and other proteins\_ for example, the Saccharomyces complex contains Nup84p, Nup85p, Nup120p, Nup145p-C, Seh1p, Sec13p, and Nup133p." [PMID

6143 Pathogen[ Q2Q067] interacts with 10 human partners:{Q96EE3;P52948;Q12769;P55735;Q8WYP5;Q8NFH4;Q9BW27;Q8NFH3;P57740;Q8WUM0}

6144 Pathogen[ P0C214] interacts with 10 human partners:{P55735;P57740;Q8WYP5;Q96EE3;Q9BW27;Q8NFH3;Q8NFH4;Q8WUM0;P52948;Q12769}

6145 Pathogen[ P03346] interacts with 10 human partners:{P55735;Q8NFH4;Q8WUM0;Q12769;Q96EE3;P57740;Q8WYP5;Q8NFH3;Q9BW27;P52948}

6146 Pathogen[ Q85601] interacts with 10 human partners:{Q8NFH4;Q8NFH3;Q96EE3;Q12769;P57740;Q8WYP5;Q8WUM0;Q9BW27;P55735;P52948}

6147 Pathogen[ P14079] interacts with 10 human partners:{Q9BW27;P57740;Q8WUM0;Q8WYP5;Q8NFH3;Q96EE3;Q8NFH4;P55735;Q12769;P52948}

6148 Pathogen[ P03383] interacts with 10 human partners:{Q96EE3;Q8WUM0;Q8NFH4;P55735;P52948;P57740;Q8WYP5;Q12769;Q9BW27;Q8NFH3}

6149 Pathogen[ P03410] interacts with 10 human partners:{Q9BW27;Q8NFH4;P52948;Q96EE3;Q8WUM0;P57740;P55735;Q12769;Q8WYP5;Q8NFH3}

6150 Pathogen[ P14075] interacts with 10 human partners:{P57740;Q8WYP5;P55735;Q9BW27;Q96EE3;Q8NFH3;Q12769;Q8WUM0;Q8NFH4;P52948}

6151 Pathogen[ P0C206] interacts with 9 human partners:{Q96EE3;Q8WYP5;P55735;P57740;Q8WUM0;Q8NFH4;Q12769;Q8NFH3;Q9BW27}

6152 Pathogen[ P03363] interacts with 9 human partners:{Q8NFH4;Q8WYP5;Q8NFH3;Q12769;Q8WUM0;P57740;P52948;P55735;Q9BW27}

6153 [Cluster 560]GO:0071778+C cellular\_component [name] WINAC complex [def] "A SWI/SNF-type complex that directly interacts with the vitamin D receptor (VDR) through the Williams syndrome transcription factor (WSTF), and mediates the recruitment of unliganded VDR to VDR target sites in promoters. The WINAC complex contains at least 13 subunits, including WSTF, several SWI/SNF components, and DNA replication-related factors." [GOC

6154 Pathogen[ Q2Q067] interacts with 4 human partners:{Q92922;P51531;Q13111;P51532}

6155 Pathogen[ P0C214] interacts with 4 human partners:{Q13111;Q92922;P51531;P51532}

6156 Pathogen[ P03346] interacts with 4 human partners:{P51532;Q13111;Q92922;P51531}

6157 Pathogen[ Q85601] interacts with 4 human partners:{P51531;P51532;Q13111;Q92922}

6158 Pathogen[ P14079] interacts with 4 human partners:{Q92922;P51532;P51531;Q13111}

6159 Pathogen[ P03383] interacts with 4 human partners:{Q13111;P51531;P51532;Q92922}

6160 Pathogen[ P03410] interacts with 4 human partners:{Q13111;Q92922;P51532;P51531}

6161 Pathogen[ P14075] interacts with 4 human partners:{P51532;Q92922;Q13111;P51531}

6162 Pathogen[ P0C206] interacts with 5 human partners:{P51532;P51531;Q13111;Q92922;Q9UIG0}

6163 Pathogen[ P03363] interacts with 4 human partners:{Q13111;P51532;P51531;Q92922}

6164 [Cluster 561]GO:0030018+C cellular\_component [name] Z disc [def] "Platelike region of a muscle sarcomere to which the plus ends of actin filaments are attached." [GOC

6165 Pathogen[ Q2Q067] interacts with 16 human partners:{Q8WX93;Q14315;Q08209;Q14192;P02511;P04792;P08727;Q9H7C4;Q8TDC0;P11532;O75190;Q9UMS6;Q86TC9;P12883;Q9NPC6;P17661}

6166 Pathogen[ P0C214] interacts with 17 human partners:{Q9H7C4;P02511;O75190;P04792;Q9UMS6;Q9NPC6;Q14315;P11532;Q15124;Q86TC9;Q08209;Q8TDC0;Q14192;P12883;P08727;P13533;P17661}

6167 Pathogen[ P03346] interacts with 24 human partners:{Q86TC9;Q8WX93;Q14315;O75112;P08727;O75190;O94875;Q9UMS6;Q8WXH0;Q8TDC0;Q13813;O76041;P17661;P02511;Q14192;O76003;Q86VF2;Q9H7C4;P11532;Q08209;Q5BKX8;P04792;Q9UBF9;Q9NPC6}

6168 Pathogen[ Q85601] interacts with 20 human partners:{Q86TC9;Q8WX93;O75112;O75190;P17661;P13533;Q9UMS6;P11532;Q08209;Q9NPC6;O76003;Q15124;P02511;Q14192;P12883;Q14315;P08727;P04792;Q8TDC0;Q9H7C4}

6169 Pathogen[ P14079] interacts with 25 human partners:{O75112;Q5JQC9;Q9H7C4;P11532;Q14192;P02511;Q8WX93;Q9UBF9;Q9NPC6;Q15124;O75190;Q86TC9;Q14315;Q8WXH0;O76041;P12883;O76003;P04792;P17661;Q13813;P08727;O15273;Q08209;Q8TDC0;Q9UMS6}

6170 Pathogen[ P03383] interacts with 12 human partners:{P08727;P17661;Q9UMS6;P02511;P04792;Q8TDC0;O75190;Q14192;P11532;P12883;Q9H7C4;Q9NPC6}

6171 Pathogen[ P03410] interacts with 26 human

partners: {Q9UMS6;Q9UBF9;P17661;O76003;Q08209;O76041;P11532;Q5JQC9;P04792;Q15124;Q9NPC6;O15273;Q9H7C4;Q14315;O75190;Q8TDC0;P02511;P12883;O75112;P13533;Q13813;Q8WXH0;P08727;Q8WX93;Q14192;Q86TC9}

6172 Pathogen[ P14075] interacts with 11 human  
partners: {P11532;Q9NPC6;P08727;P17661;Q8TDC0;P04792;Q9H7C4;P02511;O75190;Q9UMS6;Q14192}

6173 Pathogen[ P0C206] interacts with 26 human  
partners: {P17661;Q86TC9;P13533;Q5JQC9;Q14315;P08727;Q9UMS6;Q8WX93;P04792;P50461;Q15124;O76041;P12883;O75112;O76003;Q9H7C4;Q8WXH0;Q14192;Q08209;Q86VF2;P11532;P02511;Q9NPC6;Q8TDC0;Q5BXX8;O75190}

6174 Pathogen[ P03363] interacts with 21 human  
partners: {O75190;Q86TC9;O75112;Q86VF2;O76003;Q9UBF9;O94875;Q9H7C4;Q8TDC0;P08727;P11532;P17661;Q8WX93;Q9UMS6;Q5BXX8;O76041;Q9NPC6;Q13813;P04792;Q14315;Q14192}

6175 [Cluster 562]GO:0005634+C cellular\_component [name] nucleus [def] "A membrane-bounded organelle of eukaryotic cells in which chromosomes are housed and replicated. In most cells, the nucleus contains all of the cell's chromosomes except the organellar chromosomes, and is the site of RNA synthesis and processing. In some species, or in specialized cell types, RNA metabolism or DNA replication may be absent." [GOC

6176 Pathogen[ Q2Q067] interacts with 3391 human  
partners: {Q86W56;P04156;P61580;Q96S95;E7ETH6;O95376;Q13562;Q0D2J5;Q5VSL9;Q12901;O95411;P05204;O60806;P51398;P49454;Q9HC78;Q09FC8;Q96E15;Q9Y253;Q9H4I2;Q01844;Q9NZ81;Q9UNP9;Q9UM63;O15014;Q92900;P05198;Q96SQ5;Q96TC7;Q14974;P78346;Q9BUE0;Q9Y473;Q9BYE7;Q9H583;Q66PJ3;O43290;Q13573;Q9BU02;P07438;Q14526;Q9Y5K5;P30153;Q8WV37;Q9BRT2;Q9NWS1;Q9UNN4;Q8N859;O43365;O95602;P83369;P52742;Q15054;Q15573;Q9BRH9;Q9UKI9;Q9UI26;Q9Y4R8;Q8NG57;Q96N77;Q9NWB6;Q9Y6X3;C9JN71;Q8NHY2;Q14151;Q9BZZ5;Q12905;O43463;Q9UPP1;Q7RTT3;Q96EE3;Q9NWX4;Q9NZI7;Q8TAF3;Q8WZ33;P33240;Q01082;P27540;P17544;O75525;Q9BWC9;P30281;Q13118;P25490;Q33E94;Q6VMQ6;P52434;Q8NCF5;Q92750;P01100;Q96J02;Q9H3C7;P83876;Q96D70;Q03989;P22392;P46108;Q9UK13;P35789;P53370;Q9UH99;O60524;P50402;Q6V9R5;Q8NA42;O00213;Q9HB65;Q9Y6X8;Q6FI81;Q92585;O75351;Q9BTV5;Q96HA8;Q92988;O00425;Q8N187;Q9H2G9;Q8WWX9;O95639;Q9Y3A2;Q96FV9;O43167;Q2M218;Q04864;P81877;Q8TA86;Q9UHL9;Q9NYP9;Q9UJN7;Q9NXW9;Q96MW7;Q8N831;O75832;P0C1Z6;Q16236;Q03923;Q6UN15;Q9Y2S7;Q9Y2M0;O60684;Q86U42;P48556;O15234;Q9Y4A5;Q8WV44;P09917;Q9UEG4;Q9H321;P62633;Q9NVH2;Q5TD94;P54252;Q8IWL8;Q6P387;Q9BUG6;C9JE40;P18754;Q96S65;Q96H22;A6NDX5;Q15013;P02545;O43364;Q6VN20;Q8IU60;P07910;P31749;Q8NEM1;P52948;Q92890;P35754;Q71F23;O15525;Q6P2H3;P40306;Q13185;Q6NVH7;Q9UC06;Q9BZE4;Q96GA3;Q14258;P50995;Q95583;Q2KHR2;Q9ULX3;Q6ZN28;P62312;Q93034;O75155;Q8IZL2;P98182;Q9Y2Y0;P42773;Q9Y333;Q8IX15;Q9NRF9;Q9UNS2;Q12769;Q9H4X1;Q12837;Q96SD1;Q8WUQ7;Q8N2M8;O00186;Q9H7X3;Q9H008;Q9H910;Q8TF63;O14744;Q9BVP2;Q9Y6K5;Q9UPN9;Q9Y5Q3;Q9Y3S2;Q9Y6D6;Q03052;O75461;Q9Y613;O00410;P56524;Q93009;Q9UK11;Q9BY41;P17029;Q12796;Q9BW66;P52738;Q9ULX6;Q9NR56;Q10587;A8MTY0;Q9HAW0;Q9Y3C7;Q9NQT4;A0AVK6;Q15631;Q8N228;Q9UMS5;Q96D98;Q9H7R0;Q96PE6;Q8IZD2;A6NFQ7;Q95F02;Q9H3H9;Q8IZ26;P07741;Q7Z353;P60002;Q9HBZ2;Q9BRR0;Q6ZW49;Q96HW7;Q5VUQ0;Q96HA1;Q9UPR3;P10827;Q8WWY6;A6NJL1;P04198;Q9Y615;P15884;Q96A49;P20700;P20226;Q9NVM4;Q04726;Q96HR3;Q96KQ4;O43361;Q9HAU4;Q5D1E8;A9UHW6;P10243;Q9Y462;Q9Y324;P24385;Q99417;P55769;Q7L5A3;P09067;Q7Z4H7;Q96NI8;Q9GZW5;Q92681;Q5JXB2;Q16594;O75340;Q9Y266;P56182;Q9UGU0;Q9GZP8;Q96NB3;O75925;O95273;Q92922;Q6NUN9;P63104;P07737;Q8N9R8;Q9UII4;Q9Y3F4;P39687;Q13033;P55895;Q9UJL9;Q15398;Q9UL41;Q96Q08;Q13875;Q13536;Q9NS56;O60304;Q9BRU2;P22087;P55265;P23511;Q7Z2Z1;P24278;P49790;Q8NEP9;Q99638;Q9H063;Q96E14;Q9Y5A7;Q8WVC0;Q05066;Q8NEF9;Q8WX93;Q6ZQV5;Q9HBE1;Q06416;O60296;Q8TAD8;Q9NXR8;Q86WQ0;Q13487;Q63HK5;Q5TAP6;O95391;P0CJ88;Q9NQW6;Q9BUP3;Q8TD31;Q6ICB0;Q86UA6;Q99081;Q8N0Y2;Q9Y2D1;Q92664;Q5VTD9;Q9GZL7;Q15928;Q9NPB6;Q9BSF8;Q8IY18;Q96K75;Q9Y3Q8;Q9H7N4;Q9UHB7;Q12888;Q9H175;O00512;Q6XD76;O00291;Q8WW12;O00470;Q8NCR6;P52272;Q9UBX2;O75818;Q6PJP8;Q8WY54;Q92889;Q9UHR5;Q13887;Q14980;Q9NVU7;O00267;Q96RK1;P06400;Q8TA94;Q9HB96;P61326;O43493;Q6ZN32;Q9H9T3;Q9NPJ6;O75494;O00231;Q8WYA1;Q9UMX3;Q0D2K3;Q8NCE0;Q7L9L4;Q96I24;P14866;Q7Z5K2;P29374;Q99547;O00233;P42167;Q9NPF5;Q9UJX3;Q9UJX5;Q86YE8;Q9H2K2;O43663;P27694;P51825;Q08AN1;Q9C005;P49959;P41220;Q8NEM7;Q15459;P49792;Q01094;P58317;Q8IYF1;Q9UKV0;Q14678;Q8WW38;Q99575;Q9Y4B6;Q13427;O95684;Q08999;Q6ZMY9;P40763;Q8WYH8;P78424;Q8N8Z8;P14921;Q9NXV6;Q5VZB9;Q8TF01;Q9UBQ5;P23610;P62750;Q6ZS27;Q9Y3E1;Q8WWL7;Q9NYB0;Q9P127;Q08209;A6NP11;Q9UL59;Q96LA8;O15226;Q9NS26;P61579;Q8IZD4;P06454;Q8N4W9;Q53EQ6;Q64ET8;Q13889;Q96NT1;Q13352;P01106;Q8N1N5;Q9H2P0;Q13148;Q7Z6B0;O95257;Q6NS38;P10073;A6NK39;Q52LR7;Q96JZ2;Q9BYG5;O75940;O14503;Q9HAZ2;P36402;O43159;Q7Z589;Q9BWG6;Q12872;Q16666;P46937;Q9UKX2;Q15910;Q9NR55;Q9NPJ8;Q16533;O43447;O75151;Q9Y3T9;Q14690;O60481;P38432;Q6IE81;Q7KZF4;P67809;O95402;Q6PD62;Q13485;A6NGD5;Q9Y2B5;Q96DX5;Q5SXM1;Q01543;O00287;Q6IV72;A8MVS1;Q9UNS1;Q9HAJ7;P10589;Q8N2I2;Q7Z6K1;Q6ECI4;Q9UC07;P46087;P35680;Q9NX58;P53804;P38646;Q14549;Q8IUV8;P55735;Q9P0U4;Q9H9D4;Q12986;Q9Y2L1;P55795;A6NJ64;Q9NR48;Q9Y3C4;Q5VWQ0;Q01130;Q9UI56;P31274;O95997;P13056;Q14674;Q9NPI6;Q9NVN8;Q8N0Z6;Q9H2T7;O75694;Q8IXK0;Q9C0F0;Q6IPU0;P31268;Q6ZT77;Q8IUE1;Q9H1B4;Q9UHF7;P62318;P62826;O43189;Q99816;Q8LVN3;Q99741;P62508;Q9BZQ8;Q6XQN6;Q92797;Q6P1J9;Q9ULD5;P51508;Q9BQA1;Q9UBB5;Q14590;Q9Y3V2;Q15386;Q15596;P48380;O14813;Q9BSW2;Q9NTW7;Q9Y606;Q16656;Q9Y2Y9;Q96NG8;P35712;Q6ZNO6;Q15233;Q13829;Q95751;Q9NXZ1;P41182;Q9Y2X9;P19474;Q15554;P54259;Q8WWY3;Q9H5H4;Q99497;P10828;Q96AE4;Q12988;Q15562;Q9GZS3;Q96R06;Q8IZU1;O60260;P30793;O94818;Q9NUL3;Q460N3;O96019;Q9HC52;Q01664;Q9UDY8;P55197;Q5JTD0;Q8NBB4;Q06265;Q9BUL9;O00570;P28072;Q9GZS1;Q8N3X6;Q7Z4G1;P0DI83;Q96JI7;P82979;Q9UBB6;P09132;Q96H40;P49910;Q9P0M2;Q8N5U6;Q15326;Q9NZV7;Q96TS3;Q86UQ8;O95243;P18847;Q9UHX1;P49427;Q14684;P0CJ87;Q8TEV9;P51531;Q5VTL8;Q9NPG3;Q99708;P088729;Q9N9N5;P18887;Q32MQ0;P49716;Q8WYR4;P41970;P57076;Q8N684;Q9HAF1;Q6P2D0;Q9HCL3;O43805;Q6U7Q0;Q93083;Q8WTT2;Q13111;Q8WXF8;A6NIX2;Q9Y5Q8;Q86VY4;Q8TDY3;Q96W11;Q9NQ87;Q9Y244;Q5PSV4;P13349;Q9UJG1;Q9NV31;P10155;Q96DC7;Q9H6J7;Q96SK3;P61457;Q96IT1;Q147U1;Q15697;O43255;Q9BQS6;Q96LW1;Q96P71;Q9NZL3;Q6VUC0;O96004;Q92985;O95400;Q9Y6M1;Q6P1K

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Pathogen[ P0C214] interacts with 3498 human partners: {P41970;P80217;Q9BQ67;P43351;P22681;Q9Y316;Q9Y3Q8;Q9Y2B5;P40424;Q8IW19;Q9BY77;Q86UD4;P06132;Q05086;P61236;A6NDX5;Q9H147;Q9UGP4;Q6ZN55;Q6X4W1;Q9BP27;Q92993;Q5BKZ1;Q02833;Q6NX49;Q12996;O00470;Q9BZI7;O75683;Q13310;O95551;Q96B02;O00170;O00268;P29474;Q9UKW6;O94829;Q9UJX6;Q14997;Q8TEX9;Q92618;Q6NZY4;Q96S94;Q9UI26;Q9BVJ6;Q9NRR3;P53567;Q

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6178

Pathogen[ P03346] interacts with 4273 human

partners: {O43402;Q15172;Q8TEM1;Q08J23;Q6PCB5;O60921;P08107;Q86UQ0;Q9HCE5;Q9BVJ6;E7ETH6;Q9UPR3;Q96T92;Q9NVU0;Q15723;A6NKF5;O60437;Q6R2W3;Q92681;Q12888;O75179;Q5JU85;P31271;Q06330;B2CW77;O15014;Q9NVM9;Q8TEX9;Q99081;Q9BSI4;A8MU46;Q7Z3K3;Q15773;Q9NZJ0;P85037;Q9NPG3;Q3C1V8;Q8IYI6;Q06945;P0CL83;Q9Y606;P10244;Q6S9J6;Q3KNS6;P53805;Q14781;Q9Y5S9;Q8NEA9;Q62136;Q9UI26;Q96NG5;O00204;P54105;Q5JVG2;Q9NPC8;Q96FX7;Q96FV9;Q9Y6D9;Q9Y3Z3;O95400;Q969S3;Q13886;Q969S8;Q9BZI7;O15265;Q9Y6Y1;P08048;P25787;Q9BZE0;Q9NS91;Q12901;P30281;Q86TC9;Q05481;Q9Y6J9;Q96AP0;Q9Y6X9;Q8N7U7;P31249;Q8N2Z9;Q6PD62;Q7KZ85;P0C860;O95201;Q9NWS9;O75691;Q96ST3;Q9UPN9;Q9Y6K9;Q9Y2A0;P12004;Q6P9B9;P49716;P54821;Q96J02;Q7Z398;Q8N151;O76021;Q9UKA2;O75995;Q96AB3;Q9Y253;Q96D70;Q9BXU7;P59047;Q03989;Q8NB91;Q9NS26;Q96AC1;Q15427;P47902;Q15058;P05412;Q9UKS7;Q96N20;P51991;O00213;O95639;P08729;Q9Y467;Q92585;P17097;Q9H0H0;Q96CJ1;Q3YBM2;P56279;Q3KNW3;Q12874;Q7Z7K2;Q12830;P78424;Q9NZU5;Q15542;Q9UHL9;Q96LW1;O75603;Q99615;Q9Y3A2;Q5RKV6;Q8IY22;P55735;Q99828;P49639;Q16621;P46063;Q8ND76;P57071;Q5T5D7;Q86U42;Q5FBB7;O75592;Q4VC44;O15234;Q7Z7K2;Q9NWT1;Q96MU7;Q9NQ92;P61978;Q99742;Q86V48;P28070;Q9HBT8;P15863;Q8TA86;Q15562;Q9UKT7;Q6T4R5;Q9UHF7;P46937;Q96S65;Q13487;Q9ULR0;Q13263;Q9NZR4;Q96RK0;Q494X3;Q9Y3Y2;Q01534;A8MXY4;O15042;Q1ED39;Q9BXS6;P35453;Q9NQX6;Q9BU61;Q15370;Q504Q3;Q9ULM6;Q9P267;Q96P70;Q9Y4Z2;O75362;P50135;P31260;Q9NR83;Q96QR8;Q5TD97;Q96DF8;P12524;Q96GA3;O43172;Q7Z4G1;O75564;Q9ULX3;P78396;O60346;Q6RSH7;Q9UBS3;P98182;Q8NFH4;Q9NRZ9;Q14320;Q15050;P45984;Q93009;Q8WUM0;Q9H4X1;P

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6179 Pathogen[ Q85601] interacts with 3596 human partners: {Q5T230;P43351;Q53EQ6;Q9UQR1;Q9HCZ1;Q8TEM1;Q8N8C0;Q9Y534;Q13367;Q5SVZ6;Q5TA45;Q3YBR2;Q03701;Q6R2W3;Q96RK1;Q9UJL2;Q8NHQ1;Q9HCG1;Q9UBZ4;P54259;Q9NVM9;Q8NBT2;A6NFF2;Q9UNN4;P51946;Q8IYI6;P46783;Q9NV31;O95619;P0CL83;Q8IXK0;P10144;P01106;Q9P2R6;Q3KNS6;Q16612;Q92618;P18146;A4D1E1;Q494X3;Q5VYK3;P52657;Q9UI26;P10243;P28066;Q96IZ0;P17480;Q96FQ6;O75373;Q8N3X6;Q8N1G0;Q969S8;O00401;Q9BZI7;Q9ULW3;Q68CJ9;Q8N196;P08048;Q969E4;Q9H5I1;O95625;Q99816;P30281;Q86TC9;Q7Z6E9;Q8IYN2;Q6NX45;Q6PD62;O15198;Q9UGY1;Q9UPN9;Q9BRT2;P22674;O75182;Q96J02;P78317;P60900;Q8NI51;Q99543;Q96MH2;Q9NZC7;Q6N069;Q8IXT2;Q9Y250;Q33989;Q99497;P49454;O60225;Q9Y2X0;P20700;O00186;Q6UX04;Q14978;Q9UB9;O00213;P08729;Q15637;Q92585;Q8IWI2;Q5SRE5;P17097;Q9NRC8;P51786;Q96CJ1;Q15014;Q8TE85;Q32P41;Q15532;Q969J2;Q8N9K5;P78424;Q9NZU5;Q15542;Q9UHL9;Q32M78;P28698;Q8IZC7;Q92664;O00458;Q5RKY6;O75496;P49639;P15621;Q9NWS1;Q96BW1;O75971;P09629;Q63HK3;Q96JM3;Q4VC44;O15234;Q9BQ52;P49756;Q96MU7;P61978;P09234;O43913;Q6PJG6;P0CG00;Q96CB8;P51815;Q9Y2M0;Q9UHF7;P02489;Q9BRU9;Q9Y5T5;Q96S65;Q13487;P36954;Q9ULR0;Q9Y3Z2;P54198;Q6ZR52;Q15643;O15527;Q8N5Y2;Q9NXX6;Q15370;Q6P2E9;Q9Y3I1;O43598;Q7Z5D8;Q64ET8;Q9HCS7;Q9UKV0;Q96QR8;P08151;P60174;Q9H2F5;Q9Y4R8;O43493;Q96GA3;P46087;Q86W11;Q9ULX3;O60346;Q8NA42;P11831;Q8WX93;Q9Y2T7;Q5T7V8;Q14929;P07315;Q9H7E2;Q96T76;Q4LE39;Q9BQA1;Q15853;Q9BWC9;P63104;Q9H4X1;Q9UMY1;Q8TF39;Q9HBT8;Q9UPG8;Q8ND90;O14896;Q02078;Q9P1U0;Q96JK9;O00629;P17676;P15036;Q9NTK5;Q92575;Q9BXR0;Q16666;P80294;P09874;Q8NC51;P54136;O43324;O60481;Q14593;P62913;Q96DB2;P62633;Q9BUE0;Q9ULZ2;O75360;P17040;Q9ULW8;Q6ZN11;Q9UHB4;P11473;O95602;Q2VY69;Q53FT3;Q3MJ62;O94864;P08107;Q8N720;Q86XU0;O00534;Q06455;A6NGY1;Q96SZ4;Q56P03;P83916;Q9NZU7;Q9UNY5;P25208;Q9P0J0;Q14586;Q96MA1;P22681;Q9UJW0;Q9H6Z9;O14529;O15535;O43502;O15499;P02545;Q96S99;Q9NPA5;O15315;Q9UJW8;P33076;Q9HAU4;Q9BT49;Q13495;Q8NBB4;P31946;Q9NQV7;O95229;Q6VUC0;Q96JB3;Q6X4L1;Q9UKL3;Q96DE5;Q53ET0;A6NHJ4;Q9NPD3;Q9H4V4;Q96PK6;Q9UJTA9;Q9ULJ3;Q13127;Q9NS56;Q99733;Q9NVD7;P14373;O43316;Q9NY87;Q96LB3;Q9H707;O43148;Q96HA7;P26447;Q2M3X9;Q8N1G2;Q7L590;Q9UJX6;P78346;Q9GZW5;Q8IUE1;O75528;P23025;Q9NZH4;P55273;Q96MX3;P31749;Q16236;Q6V9R5;Q5EBL2;C9JN71;P99999;P62993;O75928;O00541;Q9BTE3;P02533;P24385;Q53TQ3;Q7Z2Z1;Q13490;Q7Z7K6;Q8TDB6;Q8N3Z6;Q7Z340;Q9BRU2;P14316;Q9BTP7;Q6ZN17;P17096;Q9Y383;Q9H0E7;Q8WV37;Q9Y2W2;Q9UQN3;Q96SR6;Q5JN23;A6NK39;P62081;Q96ND8;O75154;Q95831;Q9H544;Q9H5F2;P41134;Q9Y324;Q6P2D8;P63146;Q6PG37;Q9H0S4;O43390;Q96K62;Q15834;Q8N8G2;Q99575;Q02241;Q8IYB3;P10768;Q9NPI6;P61582;O14813;Q15038;Q8WVC0;Q8WZ19;Q9Y4Z2;Q8NHF4;Q96EK4;Q96RL1;Q92917;Q9NQW6;Q5JVS0;Q9BZE2;Q14765;Q01831;Q5TYW1;O94986;O95149;Q9UG56;A6NFI3;Q9Y2S7;Q7Z591;Q9NQP4;Q9BSF8;Q8N228;Q9NR22;Q14258;Q8N7B1;O96017;Q07666;Q8NFH3;Q9UC07;Q9BXF3;Q03188;Q96CS4;Q9H1D9;Q14689;Q92754;Q02556;P17028;P51522;O60563;P42568;P15808;Q9C002;Q8N7M2;Q9P0W2;Q969W8;Q9NUA8;Q8TDD2;Q9BWX5;A6NK75;P36405;Q96NT1;Q01538;Q6ZYL4;P0CB33;Q8WV24;Q99687;Q9P2K5;Q93009;Q9ULD5;P09086;P21506;Q15398;Q6XYB7;Q15466;Q01892;Q96BP3;Q8N371;Q9UPW6;A6NJ46;Q86X55;Q8WV44;Q15004;O15534;Q96AH0;Q8IUR6;Q9UQ80;Q7L804;P50539;Q12901;O95684;Q08999;P56270;Q9H0N5;O95347;Q9H8G1;Q8IYL3;P15976;Q969H0;Q9BQ60;Q3SXZ3;Q8IYD8;Q6IN85;Q96SC8;Q96BP2;Q6UUV9;P25787;P46060;Q9BY41;Q9BWH6;Q96EE3;Q9UL59;O94776;Q5C9Z4;Q2KHR2;Q9UQ84;Q6Q759;O00165;Q7RTV0;Q7L945;Q8WXE1;Q92994;Q86SG2;P61962;O15265;Q96H20;Q96RT1;Q9C0G0;Q16384;Q8TBK2;P49406;P05388;P19484;Q13243;P50750;Q9UBQ5;P17019;O75691;Q52LR7;Q96NG8;Q9Y2Z0;Q14202;Q9HD47;P15172;P49789;Q14674;Q17RY6;O75190;Q9N36;O95059;Q92547;Q9H040;Q5HYK7;P62714;Q5HY98;Q9GZV4;P0CG29;A6NNA5;Q96BD5;P14921;Q6B0B8;P18887;Q969S2;Q9ULV5;Q9UBS3;O60437;Q9BZE4;Q6P1L6;Q9H320;Q03052;Q8N8L2;Q6ZN57;Q96BR6;Q9ULK4;Q6NZ36;Q6ZMS7;Q96HQ0;Q9HD36;Q96JM2;Q8N9R8;Q9Y2N7;Q86WV5;Q9NPG3;P86452;Q9UQL6;Q8NB12;P13682}

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6180

Pathogen[ P14079] interacts with 3795 human

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6181 Pathogen{P03383} interacts with 2816 human partners: {Q969W8;Q96LX8;P43351;Q9UQR1;Q17RY6;P35227;Q96MH2;Q86UA6;P08107;Q9Y618;Q7Z7J5;Q14683;O14628;Q9BVL2;O95402;P78345;Q86U86;Q9UNS1;Q13573;Q92681;Q8IXJ9;Q9H1B4;Q7Z2E3;P02545;Q96EE3;P23490;Q06330;O15504;Q8N9W8;O14519;Q13761;O43167;Q9UNV4;Q9VSL9;Q13257;Q13228;Q15329;P15723;P41002;P10244;Q16612;A6NG73;P30307;Q8WUM0;Q9NVV4;Q9H7R0;Q02577;Q9UI26;Q9Y2Y0;P53803;Q8NHZ8;Q9NRR4;P51398;Q68CJ9;P48378;P36578;Q9NQS7;Q9BQG0;O60716;Q09028;Q9Y6J9;Q9HD47;P13073;Q8WTZ3;Q9UKN8;P27986;P0C860;Q8N2M8;O15198;Q8IX15;Q99504;Q03188;O75182;Q8NI51;P62140;O00470;Q719H9;Q9Y253;Q06265;Q8TC76;Q5FWF6;Q12872;Q7L804;P05388;Q5JVG8;O95478;Q14978;A6NNF4;O00213;P16989;Q9UBU9;P08729;Q9NY61;Q92585;Q8IWJ2;Q15935;P39019;Q07955;Q15014;P49454;P50995;Q13601;P55199;Q12830;Q9UHL9;Q8NBB4;O00458;P19474;P10914;O75925;Q9NQ31;O14737;Q9NYW8;O15234;P84101;Q63HK3;Q5TAB7;Q6PJG6;Q8TA86;P14316;Q15561;Q9Y2L1;Q96S65;Q8N344;O15266;P09661;Q92831;Q9Y2S7;Q8IXT1;Q9Y3I1;Q86XR8;Q330K2;Q9UBD5;Q5JVS0;Q92621;Q9UHV9;Q96GA3;Q12888;Q96BR6;Q32MZ4;Q99547;Q9ULX3;P11831;P49792;O14757;Q15287;Q8WZ33;Q8N2Z9;Q8NHF4;Q53EL6;Q15047;Q96T76;Q9BQA1;Q9H4X1;Q7Z417;Q06609;O95625;Q9UH92;P04733;Q9UBB6;Q96SK3;Q14839;Q96JK9;P15036;Q0D2K3;Q9Y281;Q8WU99;O75582;P62913;Q6ZN08;Q8NI27;Q05048;Q8WWY6;P80294;Q9Y3V2;O14497;P35712;P50549;O95602;Q01105;O60671;Q9UK58;P06746;Q6PJT7;Q02080;Q13485;Q969Q6;Q9UJW0;Q9Y4B6;Q6P1J9;P02533;Q96SZ4;Q56P03;Q12904;P15369;Q9HBD4;Q9Y324;P61574;P63272;Q9NQ92;Q6IPU0;Q9BSG1;Q14653;Q5SVZ6;Q9BSJ2;O75494;P20290;Q9UK10;Q9BVW5;Q86XI2;Q06455;Q04864;Q96A56;O14862;A6NK75;P0DI83;Q95163;P33076;Q64ET8;Q96TC7;O00716;Q86WP2;O75791;Q15366;P08047;Q9UPW6;Q9H6U6;Q8HWS3;Q9UKL3;Q7L5A3;O96019;A6NK39;Q9NWT6;P51003;Q9H3P2;Q9UIA9;Q9NYV6;Q9BTC8;P06748;Q68E01;O43148;P13010;Q9UML3;Q14209;P25815;P29084;P29474;Q969L4;Q96ES7;P40926;Q9GZW5;O75528;P55212;Q99607;Q9BR84;P53804;O60543;P17096;Q9BPZ2;O75478;Q9BRU2;Q9UKI9;Q9NXX6;O15397;Q9Y244;P16220;Q9NZV7;Q9HCU8;Q9H7R5;Q9BVJ6;P27540;Q9NWS1;Q96DE5;O00167;Q15562;Q9Y2P7;Q8N1L9;Q8NCF5;Q7Z6K1;Q9H0S4;O43390;Q9Y2P8;P28069;Q02241;P54278;Q8NBT2;Q9Y6K9;Q49A33;Q8WXS3;Q93083;Q15544;Q14678;Q8TF01;Q9H8H0;Q8N3U4;Q8TAD8;Q6ZYL4;O94986;Q8IWL8;Q13469;Q9H9Z2;Q7Z591;P62987;Q9BSF8;P17544;P56270;Q8N6T7;Q8IUR6;Q9NPA8;Q12824;Q9NVN8;Q16633;P35269;Q96J17;P0C7T5;Q9H777;P51808;Q7Z6B0;Q86VY4;Q8TAK5;Q9NZJ0;Q13216;P32243;Q9UP83;Q9HD40;P61572;P62324;Q32MQ0;P83876;Q9NX63;Q96AJ1;A6NF01;Q5H9I0;P19338;P51948;Q02040;O60287;Q9H4I2;O00472;Q9NP64;P13640;Q9NYG5;Q9H840;Q9HBE1;Q00653;Q8WUY3;Q15459;O00567;O60765;P62318;Q96IZ7;P55735;Q13356;Q96QF0;O95684;Q08999;A8MVS1;Q5VZE5;Q9H8G1;Q8IYL3;O94805;Q14129;Q9UNP9;O94829;Q8IU60;Q8N6I1;Q9BTA9;Q93075;Q5UIP0;P51965;P25440;Q6UUV9;Q86UE4;P06454;A8MWA4;O43290;O60248;Q9UJX6;Q9H944;O94776;Q3T8J9;P40337;P62312;P25789;P62750;Q9NZD8;Q5VTL8;Q8WXE1;P49711;Q9H4D5;Q0VD86;P54105;Q8WUX9;Q9BSK0;P53370;P17022;P22626;P0CL83;Q107X0;Q14106;Q86V71;Q8TD19;Q8N163;Q9Y678;Q52LR7;P60900;Q15596;Q6P4R8;P15172;Q01094;P49789;Q96GE5;Q9H5H4;Q8TAF3;Q96SL8;Q15013;P04156;Q5HYK7;P14866;P36639;Q5HY98;Q3KP31;Q9NYB0;Q9H869;Q9BTK6;P14921;Q15937;Q15029;P55771;Q15072;O75376;Q8WVJ9;Q15572;Q9H1K1;O75486;Q6NZI2;Q96KF2;Q9BU2;Q9ULK4;Q14526;Q9UQL6;P17029;Q9NXZ1;Q07687;P38646;Q9NVX0;P58340;Q96F24;Q9Y5Q3;Q96NT1;P0CG00;Q5TAP6;Q96H20;Q96RL1;Q9H981;Q9H4T2;Q9NWZ5;P57772;O00287;Q15650;O15162;Q96JS3;Q5PSV4;Q9UHB4;P19484;Q9UBQ5;Q16656;Q5TID7;O43264;Q9C0F0;P61571;P12270;Q03111;O14920;P31946;Q9Y5R5;O75792;O95503;Q5FBB7;Q969H6;Q9HCL3;P01106;Q9BU61;Q9UK73;O4

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6182 Pathogen[ P03410] interacts with 3852 human partners: {Q96RL1;Q6MZT1;Q9NSD4;Q32P41;O60711;Q9UDY4;Q15650;Q96EG3;Q86UW9;Q9HAW0;P84022;Q92830;Q9A2P7;Q96QF7;Q96AJ1;Q14202;Q03188;Q8WUQ7;O75505;Q99567;O60287;Q9BWH6;Q96LI6;Q9HCG1;Q96AQ6;Q9BVN2;Q9H3H9;Q7RTT6;Q99594;Q9UKT4;Q8IYW8;Q96NI8;Q99700;O14813;Q9BS18;P26447;A8K8V0;Q6AW86;Q9NQG5;Q5CZA5;Q71F56;P83876;Q2KHR2;Q14397;P49750;O95684;P57086;Q9H0M5;Q99933;Q8IXH6;Q99743;Q92540;Q3KRA9;Q92831;Q9BZZ5;Q13838;Q00613;P20749;Q96M11;Q9Y5J3;Q8NHY2;Q9BQK8;Q5JTH9;Q8WTT2;Q9BWE0;Q9UKV0;Q99848;Q9NQ90;Q9UHF7;O75665;Q9BSM1;P40426;Q4G163;Q96QT6;P0DI82;Q04206;O60583;Q9Y2W1;Q13536;Q08945;Q9NXF1;P08048;Q9H875;P62714;O14771;P28069;Q92917;Q9BZI1;Q86Y91;Q9Y2L8;P49321;Q96T21;Q96TC7;Q9HC78;Q5TA45;Q9H3M9;Q9ULU4;Q8N1W2;Q96JB3;Q5HYJ3;O60224;Q9HCH5;Q7L5A3;Q9NVN8;Q6ZNG0;O14901;O00472;Q6ZNA1;A8MWD9;O15392;Q9NS86;P35712;Q9H305;Q6UUV7;P17031;P22670;Q9NZM5;Q29RF7;Q5HY98;Q5TB30;Q9NVR2;Q7Z3B4;Q5SVZ6;Q9HD34;P23025;P42771;P61576;O43309;Q9UI36;Q6ECI4;Q9UI56;Q9BT56;Q9H9Q2;Q8IU60;Q15714;Q9BSU3;Q9UPP1;P28070;P49959;Q96RE9;Q86SE8;Q96BF6;Q8TF63;P23409;O95619;Q6V9R5;Q9BW27;Q5JVG2;Q9H6W3;P11831;O60281;Q7L804;Q9UNX4;Q8NBF1;O43439;Q9N44;Q9Y2L1;Q9NS37;Q8N5L8;Q14588;Q8WXF8;Q9P2N6;Q96FX2;P40692;Q6NZI2;Q96BR6;Q9Y2S7;Q9H981;Q5EBM4;Q9HB07;P22087;O75290;B2RFX5;Q9BYN7;P0CJ87;P30047;Q92945;Q9GZP8;Q17R31;Q96AV8;Q8IZU0;P18887;Q5JNZ3;Q13227;O75934;P23246;Q8TAU3;Q8IYN0;Q8IZX4;Q9HAJ7;P82094;P61247;P19838;Q68CJ9;Q96Q89;P17987;Q5QGS0;Q96TA1;P36956;O75154;P46527;Q9NIW8;P0C7V5;Q00839;Q9ULR0;Q9H4X1;P52655;P35244;O75461;P53999;Q99457;P25205;Q9NUX5;P51610;Q9HBM0;Q86WB0;Q15427;Q9H040;P10768;Q13137;Q8WTP8;Q5T4T6;Q96FI4;Q9UKT7;O94763;Q8IWZ3;Q13829;Q9UI95;Q9UHP9;P61578;P60002;Q9UNN4;P27986;Q9NZN8;Q9Y6J0;Q9NXX9;Q96PT3;Q8WYH8;P48539;O75925;Q96GN5;Q8IXK0;Q96RS0;O43929;Q9H2G9;Q9HB71;Q9BWF5;Q9Y4Y9;Q6ZNA4;Q9UMS6;Q12873;Q99733;P23490;Q15572;P0C7X8;Q8IWC1;Q96ST2;Q9UDW3;Q8WXD5;Q9HAH1;O60675;Q6ZN01;Q5T619;Q9UL41;P02533;O00512;Q01011;Q9UL16;Q7RTS9;P10599;Q03112;Q9UK39;Q12893;Q6ZMY9;P0CG48;Q6PGP7;O15205;Q9Y6H5;Q96NM4;O95218;Q8WXU2;Q8IXF0;O15355;O95639;Q3SY89;A6NN14;Q32M78;E7ETH6;Q13394;Q9UNY4;Q9UGK3;Q9NPP6;P51808;Q9Y2Y9;Q9NXR7;P29374;Q9Y675;Q9NZH5;Q14129;Q9NSP4;Q13106;P51161;Q8N9Z0;Q96DU7;O14893;Q8N5J4;Q96AB3;Q8NDW4;Q96T76;Q9NZL3;Q9BU02;Q16666;Q15058;Q9Y2G2;O14681;Q5HYK7;Q9YF7;Q99708;Q9UDV7;Q14593;O43402;Q9UNN5;Q27J81;P10144;P52594;P35638;O1920;Q14526;Q9GZR2;P26368;P68104;O95359;O95238;Q9H3R5;Q10570;Q6Q759;Q59GR2;Q9H869;Q02833;Q9UK13;Q9Y3B8;Q8N8E2;Q9BVI4;O00470;Q96N58;Q2M3W8;Q14974;Q13155;P56279;Q8WXA3;P61326;Q8N8Z8;Q9H4L7;Q9HB75;O75683;A9QM74;Q8WVC0;P19387;Q14103;O96006;P62304;P20585;Q96RT1;P16415;Q96N22;P35813;Q13772;Q8TC05;P78316;Q96LA8;Q13360;Q8N7R0;P06454;Q9NX01;Q8N7G0;Q9COH6;P80303;Q14739;Q15697;Q96BW1;O15234;O15042;Q9H825;Q8N0S6;Q96T23;Q9H147;Q13889;Q6PCB5;Q8WYK2;O00505;O75373;Q9NV56;Q96PK6;Q8TD31;Q99496;P48634;Q9H5J8;Q9P2T0;O95780;Q5VUA4;P0CG30;Q86VM9;O43684;A6NF01;Q9UKX2;P0CJ79;Q8N7Q3;Q7Z614;Q14929;Q9BY41;P17482;Q7Z

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6183

Pathogen[ P14075] interacts with 2826 human partners: {Q04727;P43351;Q8N490;Q96QA6;P49321;Q9NVU0;Q9H307;Q14146;Q16633;Q9H6Z4;Q9NQ33;P28069;P42704;Q8N196;Q96EB1;Q3L8U1;Q5VWX1;Q0D2J5;O95453;Q9NZL3;Q69383;Q92797;Q9C0F3;Q9P0V3;P13051;P52630;O75953;Q5VTR2;Q96F51;Q86UU0;Q6P2E9;P53804;Q14781;Q494X3;A8MT69;Q9BY41;Q9Y5P8;P11387;Q9UI26;Q9UN30;Q6P4R8;Q9BZZ5;P17480;P17029;P49336;P06733;P05204;Q68DY1;Q9NTW7;P78560;Q15059;O15297;Q3SYG4;Q9UBS3;P29474;P82979;Q5H9L2;Q96AQ6;Q7Z2E3;P54136;Q15257;Q8NI51;P52292;Q96M11;Q8NB91;A6NLC8;Q99933;Q9Y6J9;Q96ST3;P51003;Q9NSC2;P22626;O00566;O00213;P08729;Q16576;Q14511;Q92585;Q15572;A8MV65;O15131;A6NLI9;Q8TEQ6;Q6IPU0;Q15366;Q12789;P84101;P61575;P43355;Q9BS18;O14646;Q9UHL9;Q9UK73;P35869;Q8IZU1;Q3T8J9;Q9BUP3;Q15819;Q09666;O60663;Q8N1G2;O15234;Q8TAD1;P09132;Q9NQE9;Q8TAQ5;Q9BQS6;P63165;Q9HB96;Q8N6T7;P51815;Q96S65;P62304;Q9GZV5;P51825;O95049;Q96QR8;Q15643;Q969S3;Q96GM8;Q9C0E2;Q8TAT6;P61580;Q15929;P53801;Q99607;Q8IXW5;Q14129;Q6V9R5;Q3KNV8;Q96GA3;P54105;Q7RTT5;Q02410;Q9NZQ3;O75564;Q9ULX3;P54253;Q05519;Q9H788;O76021;P61960;Q9NXV6;Q96E14;Q8TDR4;Q8NEJ9;Q9H4X1;Q9UGY1;Q14602;O43402;P14866;Q9UK45;P06454;Q12962;Q9H2G9;Q09161;Q12983;O94811;P35813;Q02577;Q9H583;P62316;O95232;Q96MT3;Q96JB2;Q8TAD8;Q9GZY1;Q96EY5;P56181;Q86U70;Q9H814;Q96PM5;Q53FT3;Q16719;Q6Q759;Q6RFH8;Q8WXF1;P25788;Q9Y5B6;Q14764;P11532;Q14690;Q9BSV6;P42677;O75391;P13984;Q99608;Q9Y266;Q86X95;Q13155;Q9Y5A6;P19338;Q9Y56K1;Q969J2;P62913;Q9H175;Q86SE9;P35659;Q9H211;Q9NPP6;Q8N9N5;Q92900;O15111;A8MTY0;Q9Y04;Q9UBY9;Q7L5A3;Q96GE5;Q9BVC6;Q6ZN32;Q00613;Q9GZU2;Q5SVZ6;Q01850;P23497;Q92681;P23246;Q92759;P41227;Q9HAP2;Q8N187;Q9H2F5;Q96KS0;Q99990;P12956;P56537;Q14207;P50548;Q13042;Q7

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6184

Pathogen {P0C206} interacts with 4057 human partners: {Q9UID6;P27695;P33316;Q02386;Q96P71;Q9UBW7;Q9BUJ2;Q99990;Q96HA7;Q8HWS3;Q8N9K 5;Q8TE85;O95217;Q5VUA4;Q76L83;Q5BJF2;Q9BPU9;Q9UNS1;O75293;P61289;Q8TCI5;Q53GS7;O43598 ;Q9NUA8;Q4L180;O43829;Q8N720;Q6IEG0;O43679;O43542;Q96TC7;Q9NY87;O75340;Q13112;P06733; O00488;Q9Y3S2;Q9UNN5;P28698;Q9H1K1;Q6NUN9;A9UHW6;Q9BT56;Q15072;P61572;Q9C000;Q92688;Q 96EE3;Q6PJG2;Q8IW03;Q9Y253;Q9HBM1;Q6NXT1;Q86VD1;Q9UNP9;Q9BRG1;Q9NQC8;P46937;Q8WXE1;Q9 Y468;Q8TAE8;Q15723;O43502;Q13875;P09132;Q13887;Q02833;P84022;Q15287;Q9BUE0;Q9NPI8;Q92 597;Q3T8J9;Q9Y224;Q2LD37;Q9BWH6;O75486;Q9NZ63;Q8IXH6;Q9HCU9;Q9NQX1;Q969U7;Q3KNS6;Q86W 11;Q9UFF9;Q9BZQ8;Q9Y2X9;Q12872;Q96JL9;Q9H0S4;O60716;Q9H8H0;Q14320;P53567;Q9P016;A8K8V 0;Q99436;Q5PRF9;P28062;Q9NPA3;P10144;Q86Y01;Q07687;P10588;Q96RS0;Q9UK12;Q8NA77;Q9BV90 ;Q8N371;Q96NT1;O75683;P05787;O43541;Q9BW71;O60216;P24863;P99999;Q9NPE3;Q9NX58;P62324; Q9Y232;Q6P9A3;Q952621;Q9BUL9;Q8NG57;P31949;Q9H765;Q9NZV6;Q86XR8;Q99848;Q8WUF5;P0CJ87;Q 15435;B1APH4;Q86VZ6;Q969F1;Q9BPX3;P46939;Q9P031;Q53T94;P67809;Q08J23;Q9NQ87;Q14188;Q9 6L92;Q86V15;Q969W8;Q9UJV8;O43324;Q9UMS4;P56181;Q9H4L7;Q9P1U0;Q8IX15;Q16385;Q96PU5;O14

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6185

Pathogen[ P03363] interacts with 3874 human

partners: {Q1KMD3;A2RRD8;Q9NWX4;Q53FT3;P80294;Q719H9;Q8IZX4;Q96B26;Q86TJ5;Q49AA0;Q86X95;Q61E81;Q96D46;Q6XQN6;Q9Y316;O95376;Q92886;Q16236;Q9BSD3;Q9NQX1;Q16587;O95777;P22681;Q9NPF5;P56179;Q5TGS1;O60832;Q96ST2;Q15654;Q7RTS1;Q9UNN5;Q32P41;P46379;Q3YBR2;Q9UBY9;Q96S94;Q13112;Q9NWF9;Q504Q3;Q9Y6Y0;Q86VE0;O15370;Q15020;Q92547;O75940;P17706;P62913;O75717;P61236;O75179;Q8IXM2;Q9UNQ2;Q86XU0;P05783;Q9NX24;Q8TAK6;O75190;O75410;Q9H816;Q9Y2B5;Q15911;Q9Y5A6;Q9NQ4;Q9NYG5;Q9H160;P80297;P49918;Q9POL1;Q14653;Q96EA4;O95926;Q14146;Q8NB42;Q14978;Q9Y6J0;Q86U70;A6NFF2;P43364;A8MQ14;Q9UNN4;Q53QV2;Q9NR55;Q9Y6H5;Q5VT9;P62314;Q12959;P41227;O75123;Q15699;P51858;Q9C0F3;Q92979;P52630;Q9BQ50;A6NGY1;O95619;P12956;Q9UBC0;Q8NHY6;O95990;O94762;Q16836;Q5T0B9;O75953;Q96QT6;P13682;Q6S96;O75820;Q969F1;Q3KNS6;Q9UGK3;Q8TEE9;Q86Y01;Q9NW38;Q9UFW8;O15266;Q99684;Q96RS0;O14787;P18887;Q06547;Q16342;P31273;O43812;Q9H875;A4D1E1;Q03923;Q32MZ4;Q9BX63;Q15233;Q8IUM7;P43897;Q15528;P52758;Q9NV11;Q9Y5P8;P02533;Q9NVR2;Q9Y535;Q6P9A3;Q99615;Q9UKD1;Q8NCK3;Q68455;Q13490;Q99829;Q6ZMY9;P17535;P35789;O14901;O43395;A8MSY0;O75373;Q9BZZ5;Q9Y252;Q5SVQ8;Q6ZLN17;P98168;Q9GZM2;Q9H8N7;P18848;Q9U1W0;Q8N8G2;Q8TDB6;Q9ULW3;Q16186;O14744;O95751;Q69YH5;Q15834;P08048;Q9H9A7;O75461;Q8IXJ9;Q8TC05;Q14691;O15205;A8MWD9;P09132;Q9N93E1;Q9Z6J9;Q86TC9;Q9BUR4;Q13105;A6NKF2;Q9NWT8;Q9BZD4;Q06787;P35453;Q8IWA3;Q8IWL9;Q8N9Z9;Q8I9PC;Q9NZH5;P29474;P46060;Q96JM7;O75081;Q9NVN8;Q8NFW5;Q8IZT9;Q68DK7;Q9H832;Q01850;Q9BRT2;Q5SVZ6;P0C7T5;P17027;P49716;P0CH99;Q3L8U1;Q9Y6H5;Q13151;Q9UJ98;Q9Y3F4;Q5VUA4;Q6N069;O43493;Q6NWX9;Q9H2D6;Q9NVV4;P46939;Q9NSD4;Q03989;Q13595;Q16082;Q8N9F8;Q13042;Q9HD40;O14907;Q96RE7;Q9Y4Y9;Q86V71;Q6IQ21;Q9BXP5;Q16649;P49454;Q96EP1;Q8WUA4;Q6VMQ6;Q14765;Q9H201;Q12830;Q5RKY6;Q8NFV8;Q8N5U6;Q53GS7;O95049;Q6P0N0;Q9BZE2;Q96IY1;Q9H5Y2;Q7Z3B4;Q99592;Q8N1G0;Q92973;Q9GZV4;P10828;Q9H963;Q92917;P51965;Q9UJQ4;P63162;Q9Y4Z0;Q99909;P62750;Q15366;Q969J2;Q9BSH3;Q9Y4Z2;Q13427;Q9Y5B6;Q8N988;Q96RT1;Q4W5G0;Q9NSI8;Q8WWL7;Q9BVJ6;O00273;Q07666;Q96B36;Q9UHF7;P29374;Q6P1K2;Q8WTT2;P23396;Q9UL42;Q9H825;Q8N2I2;Q9UHL9;Q96LW1;P28698;Q53ET0;Q8IZC7;O60543;O75368;Q96IE7;Q92985;Q9H4D5;P42677;Q9UL16;Q8NE65;Q9BUP3;Q9UGK8;P19338;Q8N0X2;Q96AQ7;Q96N22;Q5JTC6;Q9NQZ8;P62380;P62136;Q9Y2W2;O95948;Q9NYP9;Q9NXZ1;P49419;Q8NF91;O15287;Q96J01;Q6DD87;Q9GZS3;Q9UHP9;Q9NWH9;Q95GR2;P19622;P08865;P23246;Q99623;P29083;Q7Z7K6;P29084;Q13835;Q8TAQ5;Q9GZU8;Q96NU1;Q96T58;P27694;P62937;Q86UA1;Q92766;P0CL84;Q03924;Q6ZNA1;O43933;Q9UGN5;O94818;Q6ZYL4;Q9UPV9;Q9HAW4;O15355;Q9GZY1;Q9UNH7;P47902;Q9BRU9;Q96S65;P35711;Q13487;Q9NZR4;Q9H8E8;Q9P2I0;Q96I24;Q9BXM0;Q96RJ6;P54198;Q14929;Q8NDY6;Q9Y5B0;Q9UH92;P78415;Q9Y5K5;Q7Z333;Q6XYB7;O15527;P0CJ87;Q9H3S7;Q9NQX6;Q86YD1;Q9NYP3;P0CJ88;P38919;Q15370;Q9BYU1;P09067;P12525;P55771;Q9BZR9;Q7Z340;Q14938;B4DU55;Q9H091;P41223;Q8N859;Q92925;Q19AV6;Q9NWZ5;P0DJD3;Q15466;O75360;P41252;Q8TF42;Q9Y5J3;Q96DF8;O14978;Q14CS0;Q9Y6X0;Q6ZNO6;Q96GA3;Q04323;Q9Y6D9;Q4LE28;P63167;P54727;Q96EU6;P46087;Q6ZMZ3;P53801;Q7L804;Q86W11;Q9ULX3;P62847;Q9Y2X3;Q9UNW9;Q8NA42;Q14865;Q9UBB6;Q13503;O15360;Q9NZL3;P06744;O60684;Q9H299;Q9GZL7;Q6EMB2;Q6P387;Q9UNH5;P31274;Q14145;Q9Y2D9;Q8NAP3;P17021;Q9GZM3;Q10570;O14920;P17010;Q08J23;P62714;Q15050;Q8IVP9;Q5SRE5;O43296;O14529;Q8WWQ0;Q04206;Q15853;O14771;Q16222;Q9H4X1;Q9BQ95;Q8NAV2;Q99598;Q9NRA8;Q7Z591;O95780;O14896;P27540;Q66K74;Q7RTS9;Q86VK4;O60356;P49848;P02795;Q9Y383;Q86WB0;Q8WYR1;A6NKF5;P17676;P12270;P52738;Q9H081;O75683;Q92575;Q9BXR0;Q5T5M9;P06454;O75643;Q9NUA8;Q6NSZ9;Q5C9Z4;Q8NC51;Q12901;P26447;O60481;P18146;Q5JUK2;Q13360;P49116;Q969Q6;Q0VDE8;O00712;Q969U7;Q9H981;O95628;Q9ULG1;Q9HCU9;Q8NG50;Q9BX66;P0CJ86;P19388;O95453;Q9H9P5;P36873;Q2VIQ3;Q9BVT8;Q6ECI4;Q9UBX2;Q9UHB4;Q12972;Q6P2D0;O75764;P24864;Q8NEK5;Q02386;P51784;O15524;Q9NQ55;Q13367;Q13148;Q5VT06;Q96JS3;Q96JC4;Q8IXQ6;O60315;Q6P1K8;Q12872;Q92674;P83916;Q13435;P33316;Q8NFH4;Q8WZ33;O95411;Q6STE5;Q02930;Q9UHB7;Q5PRF9;Q9BXW9;O95391;O60224;Q9P0V3;Q00597;Q8NG57;Q99576;Q969X6;Q13428;O14682;Q8TAF3;Q9UND3;Q9BSV6;P98169;Q9UMS0;O75391;P13984;P02545;Q7Z3Z4;Q8N9A8;Q9P2J8;Q9NZJ4;Q15021;Q86UP3;P49321;Q9UJW8;Q9Y468;Q9H175;Q6NT04;Q9UP83;P35227;O95400;P52597;Q5U5Q3;Q9C000;Q7Z353;O60563;Q9HAU4;Q96T92;Q9NXX6;Q9H321;P0C931;Q99676;Q3ZCT1;P21127;Q92900;Q6V9R5;Q9BT6;Q6HR3;Q9NWL3;O95229;Q9H9Q2;Q9Y4W2;O60291;P48539;Q99626;Q6GQQ9;Q14582;Q9NRL2;Q13227;P53567;P48382;Q8N5D0;Q9C0A1;Q96DE5;Q14526;P05388;A6NHJ4;Q9UMS5;Q8N7R0;Q58F21;O60535;Q9HAV4;Q9Y4R8;Q9UN79;Q9H9Y6;P58004;Q9Y2R2;Q96MX3;Q9NZU5;Q9BYV9;Q9HB71;P35579;Q8IU81;P14373;Q13516;Q9UHI6;Q15554;Q9UJ04;Q6NZY4;Q96IU4;O75340;Q14781;Q9NY87;Q9H707;P56177;Q2KHR2;Q93C1V8;Q96NG8;Q9NVV9;Q9UMX1;P36402;P36578;O75607;Q5TID7;Q9UC06;Q78424;Q96SE7;Q9Y3C5;P00122;O94811;Q96HW7;A2A288;P12524;Q96IZ0;Q7L5Y5;Q96T49;Q330K2;Q6Y4P4;P49606;O75886;Q9BZQ8;P0CB48;P54259;Q96LW7;Q9BRR0;Q8IUE1;P78412;Q99543;P0DI81;P08151;Q7L3S4;Q8NEZ5;Q9H5I1;P0CB47;Q9H7D7;P55199;Q9H7S9;Q96K62;P86452;P99999;Q96L92;Q9BY41;Q5T7V8;Q9NS3

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- 6186 [Cluster 563]GO:0070469+C cellular\_component [name] respiratory chain [def] "The protein complexes that form the electron transport system (the respiratory chain), associated with a cell membrane, usually the plasma membrane (in prokaryotes) or the inner mitochondrial membrane (on eukaryotes). The respiratory chain complexes transfer electrons from an electron donor to an electron acceptor and are associated with a proton pump to create a transmembrane electrochemical gradient." [GOC
- 6187 Pathogen[ Q2Q067] interacts with 11 human partners: {O43920;P56181;O75489;O96000;O95178;O43678;O75251;O75306;P99999;Q9P0J0;E9PQ53}
- 6188 Pathogen[ P0C214] interacts with 22 human partners: {Q16795;O75306;O43678;P22695;P56556;P28331;O43920;O95299;P17568;Q16718;O14561;O95298;P99999;Q9P0J0;O96000;E9PQ53;O95182;O75489;O75251;Q9UI09;P56181;O95178}
- 6189 Pathogen[ P03346] interacts with 11 human partners: {P56181;O75489;O43678;O95178;P99999;O43920;E9PQ53;O75251;O96000;O75306;Q9P0J0}
- 6190 Pathogen[ Q85601] interacts with 8 human partners: {Q9P0J0;P99999;O75306;O43678;P56181;O96000;O43920;E9PQ53}
- 6191 Pathogen[ P14079] interacts with 42 human partners: {P56181;P22695;O43674;O43677;O43181;O95169;P56556;O95139;O96000;O95167;O75306;P00395;P00403;P17568;Q9UDW1;P14927;Q86Y39;O95182;P07919;O14949;O43676;O43678;P51970;O95178;O75251;O14561;Q9UI09;P00156;O95299;E9PQ53;Q9P0J0;O75489;P03923;Q16718;P03897;O43920;O15239;P99999;O00483;P03901;P03886;O95298}
- 6192 Pathogen[ P03383] interacts with 11 human partners: {O75251;O96000;O43678;O43920;O75489;O75306;O95178;P99999;E9PQ53;Q9P0J0;P56181}
- 6193 Pathogen[ P03410] interacts with 44 human partners: {O95168;O43674;P56556;P17568;O95178;O75380;O43678;O75251;O95299;P51970;O43920;Q9UI09;O96000;P07919;O95167;O15239;Q9Y6M9;P22695;P03886;O00483;O95298;O75438;Q9UDW1;E9PQ53;P56181;P00156;O14561;P14927;O75489;Q86Y39;P99999;P03897;O43677;O95169;O43181;Q16718;O75306;P00403;O43676;O14949;P03901;Q9P0J0;P03923;O95182}
- 6194 Pathogen[ P14075] interacts with 17 human partners: {O43674;P56181;O96000;O95182;O43677;O43920;O75306;O14561;O95298;O43678;P99999;O75251;E9PQ53;O75489;O95178;Q9P0J0;O43676}
- 6195 Pathogen[ P0C206] interacts with 21 human partners: {P99999;P56181;O75251;Q9UDW1;O43920;O75306;O95182;Q9UI09;O95298;P22695;O14561;O00483;P17568;O95178;Q9P0J0;O43678;O75489;E9PQ53;O96000;O43674;P56556}
- 6196 Pathogen[ P03363] interacts with 4 human partners: {P99999;Q9P0J0;O96000;P56181}
- 6197 [Cluster 564]GO:0000172+C cellular\_component [name] ribonuclease MRP complex [def] "A ribonucleoprotein complex that contains an RNA molecule of the snoRNA family, and cleaves the rRNA precursor as part of rRNA transcript processing. It also has other roles
- 6198 Pathogen[ Q2Q067] interacts with 2 human partners: {Q99575;O95707}

6199 Pathogen[ P0C214] interacts with 2 human partners: {095707;Q99575}

6200 Pathogen[ P03346] interacts with 2 human partners: {095707;Q99575}

6201 Pathogen[ Q85601] interacts with 2 human partners: {Q99575;095707}

6202 Pathogen[ P14079] interacts with 2 human partners: {095707;Q99575}

6203 Pathogen[ P03383] interacts with 2 human partners: {Q99575;095707}

6204 Pathogen[ P03410] interacts with 2 human partners: {Q99575;095707}

6205 Pathogen[ P14075] interacts with 2 human partners: {095707;Q99575}

6206 Pathogen[ P0C206] interacts with 2 human partners: {095707;Q99575}

6207 Pathogen[ P03363] interacts with 2 human partners: {Q99575;095707}

6208 [Cluster 565]GO:0005819+C cellular\_component [name] spindle [def] "The array of microtubules and associated molecules that forms between opposite poles of a eukaryotic cell during mitosis or meiosis and serves to move the duplicated chromosomes apart." [ISBN

6209 Pathogen[ Q2Q067] interacts with 97 human partners: {Q3KQU3;P49454;Q96TC7;P50402;Q15013;P31749;Q13185;P50995;Q9Y2Y0;Q7Z4H7;Q15398;P63172;Q14980;P06400;O43663;P01106;Q7Z460;P53675;Q99741;Q96R06;Q5SW79;Q8N0Z3;O94927;Q5UIP0;O75935;P54274;Q8WVK9;A8MVW5;Q14511;Q9UNH5;Q9NVX0;Q6P582;Q9NXR1;Q9Y237;Q53HL2;P04792;Q9P258;Q1MSJ5;A6NKF1;Q99871;Q96DB5;Q9NQS7;Q99569;O43264;Q9Y3A5;Q7Z7K6;Q9BW27;Q08J23;Q6PGN9;Q00610;O76095;Q12834;P50748;Q96JM3;Q9Y5B0;Q9BT25;Q96Q89;Q9H6D7;Q96BK5;Q5TB80;Q9ULW0;Q02241;O00139;Q9H4H8;Q08AG7;O75122;Q8IX90;Q8IWC1;Q9Y6D9;Q9UKT4;Q96T76;Q96BD8;Q9UI95;Q9Y3D0;Q8IZT6;Q8IZT6;P0953;Q6NZ67;Q9BXS6;P35579;Q49MG5;Q9UUK3;P30260;Q66K74;Q96CS2;Q13042;Q15691;Q8WVK7;P83916;Q9UMS4;Q66K89;O15392;Q68CZ6;Q14194;Q5VT06;Q9ULD2;Q96CW5}

6210 Pathogen[ P0C214] interacts with 95 human partners: {Q96BK5;O94927;O75935;Q6NZ67;Q5UIP0;Q1MSJ5;Q53HL2;O43264;Q15013;Q02241;Q9NS23;Q7Z4H7;Q5SW79;Q9UJP4;P83916;Q96R06;Q9BXS6;P50748;A8MVW5;P04792;P60953;O00139;Q96CW5;Q14194;Q15691;Q96TC7;Q9UI95;Q9UMS4;Q96CS2;Q14980;Q6PGN9;Q9Y237;O75122;P53675;P35580;Q96Q89;Q9BW27;Q96BD8;Q9P258;P50402;Q15398;Q08J23;Q9BT25;Q12834;Q9ULW0;O43663;Q9ULD2;Q13185;Q96DB5;Q9UNH5;Q7Z7K6;Q99871;Q14511;O15392;Q9H6D7;Q8IX90;Q8IWC1;P63172;Q3KQU3;Q7Z460;Q9UUK3;A6NKF1;Q9Y2Y0;Q9Y5B0;Q96JM3;Q9NQS7;Q68CZ6;Q8N0Z3;Q8WVK9;Q5VT06;Q9Y3D0;Q08AG7;Q9NXR1;P30260;P49454;Q9Y3A5;Q9NVX0;Q6P582;Q8IZT6;P50995;Q5TB80;Q7L5Y9;Q66K89;P01106;P06400;Q9UKT4;Q9Y6D9;P31749;Q49MG5;Q96T76;Q66K74;P54274;Q99741;Q8WVK7;Q13042}

6211 Pathogen[ P03346] interacts with 110 human partners: {Q08J23;Q6P582;Q9Y6D9;Q15058;Q9BT25;Q9BXS6;Q9H6D7;Q9Y657;Q6NZ67;Q9Y283;Q14511;O15392;Q99569;Q99871;Q7Z4H7;P06400;P35579;O75935;Q96R06;O00139;Q15013;Q15691;P54274;A8MVW5;Q9UMS4;Q9UUK3;Q66K74;Q14141;O43264;Q9NXR1;Q53HL2;P60953;Q96TC7;Q9P258;Q96CW5;Q9UI95;Q66K89;Q8N0Z3;Q8TEW0;Q12834;Q14980;Q69YQ0;Q9Y5B0;P01106;Q5TB80;Q9BW27;Q9NVX0;Q9ULW0;Q9Y237;Q15398;A6NKF1;P31749;Q13042;Q15019;Q5VT06;O60447;Q68CZ6;Q96BK5;Q9NQS7;Q96Q89;Q3KQU3;P53675;Q9UKT4;Q6PGN9;Q7Z7K6;Q9ULD2;P63172;Q5UIP0;Q9H4H8;Q96JM3;P50995;O75122;P50402;Q02241;Q8IX90;Q8IWC1;P50748;P36405;Q96DB5;Q96CS2;Q83916;Q8WVK9;Q8IZT6;Q08AG7;Q7Z460;Q9Y2Y0;Q9H8V3;O94927;Q49MG5;O76095;Q14194;Q9UJP4;P30260;O43663;Q99741;Q1MSJ5;Q96BD8;Q9NS23;O14965;Q13185;Q5SW79;Q00610;Q9Y3D0;P04792;Q96T76;Q8WVK7;Q9UNH5;P49454;Q9Y3A5;Q9UBP0}

6212 Pathogen[ Q85601] interacts with 108 human partners: {Q99569;P01106;P49454;Q96JM3;Q6PGN9;Q96T76;P53675;P83916;Q00610;P31749;Q7Z7K6;Q02241;P36405;Q15398;Q8WVK9;Q14194;Q9H6D7;Q9BT25;Q99871;Q9NQS7;Q9Y3D0;Q9UI95;Q9UBP0;P06400;P35579;Q9P258;P50995;Q6NZ67;Q9Y283;O75935;Q7Z4H7;Q9UKT4;Q9NVX0;A8MVW5;Q9UMS4;Q49MG5;Q9Y2Y0;Q9UUK3;Q7L5Y9;Q9Y3A5;Q66K74;O43264;Q53HL2;Q9BXS6;O15392;Q9NS23;Q96CW5;Q9ULW0;Q8IZT6;P63172;A6NKF1;Q96R06;Q9UJP4;Q12834;O43663;O75122;Q9UNH5;O14965;Q96Q89;Q9BW27;Q15013;Q13042;Q96BK5;Q9Y5B0;Q08J23;Q5VT06;Q15691;O60447;Q15058;Q96BD8;Q9Y6D9;Q1MSJ5;Q5UIP0;Q3KQU3;Q5TB80;Q13185;Q9H4H8;O94927;Q69YQ0;P50402;Q8IX90;Q14980;Q8IWC1;P50748;Q8WVK7;O76095;Q96CS2;P60953;P04792;Q7Z460;Q5SW79;P35580;Q96TC7;Q08AG7;Q66K89;Q8N0Z3;Q9NXR1;P30260;Q6P582;Q99741;Q14511;Q9GZM8;Q9Y237;O00139;Q9ULD2;Q68CZ6;Q96DB5;P54274}

6213 Pathogen[ P14079] interacts with 104 human partners: {Q15691;Q14980;P54274;P35579;Q9BW27;Q3KQU3;Q00610;P63172;Q9NS23;Q9UKT4;Q7Z460;Q8IX90;Q9Y5B0;Q9H4H8;Q96R06;P50995;Q9Y237;O76095;Q99871;Q15013;Q66K74;Q02241;Q9NVX0;Q9Y2Y0;O15392;Q1MSJ5;Q6P582;A8MVW5;Q9ULW0;Q9Y3D0;Q7L5Y9;Q9Y3A5;Q69YQ0;Q9UUK3;Q9BXS6;Q08AG7;Q8TEW0;Q99741;P36405;O43663;Q13185;Q9UMS4;Q96Q89;Q5VT06;Q8IWC1;Q13042;O00139;Q15058;Q66K89;Q99569;Q8WVK7;Q96JM3;Q9H6D7;Q9H8V3;Q08J23;A6NKF1;Q9P258;O43264;Q14194;Q49MG5;Q5SW79;Q8N0Z3;P01106;Q9GZM8;Q96DB5;Q6PGN9;Q5TB80;Q9ULD2;Q53HL2;Q8WVK9;Q9NQS7;P30260;Q9Y283;Q96BK5;Q7Z4H7;P49454;P53675;Q9BT25;Q6NZ67;Q9UJP4;Q68CZ6;P50402;P83916;P04792;Q9NXR1;P50748;O95235;Q96TC7;Q5UIP0;Q96BD8;O75122;O14965;O75935;Q96T76;Q6IQ19;Q8IZT6;Q9Y657;Q9UNH5;O94927;Q7Z7K6;Q96LZ7;Q96CW5;Q15398;Q96CS2}

6214 Pathogen[ P03383] interacts with 86 human partners: {Q9Y2Y0;Q9NQS7;P49454;P50995;Q8N0Z3;Q96T76;Q7Z460;Q96TC7;Q1MSJ5;Q96BD8;Q00610;Q02241;Q15691;Q5UIP0;Q8WVK9;Q15013;Q9NVX0;O43264;P01106;Q9UI95;P31749;Q9P258;Q9BXS6;P63172;Q6NZ67;Q7Z4H7;Q96CW5;P60953;A8MVW5;Q96BK5;Q3KQU3;Q9UKT4;P04792;P53675;Q7Z7K6;Q13042;Q9Y3D0;Q5VT06;P06400;Q08AG7;Q66K89;Q96R06;Q96DB5;A6NKF1;P83916;Q12834;Q6PGN9;Q99871;Q5TB80;Q96CS2;Q53HL2;O94927;Q13185;Q9BW27;Q9UNH5;Q14511;Q08J23;Q68CZ6;Q8WVK7;Q96Q89;Q9BT25;O75935;Q9H4H8;Q9Y3A5;P50402;P35580;O14965;Q8IX90;Q14980;Q8IWC1;Q6P582;Q9UUK3;Q9Y5B0;Q9H6D7;Q5SW79;P35579;Q9ULW0;O43663;Q49MG5;O76095;P30260;Q9UMS4;P54274;Q99741;Q9Y6D9;P50748}

6215 Pathogen[ P03410] interacts with 111 human partners: {Q00610;Q9UKT4;Q96LZ7;Q8IX90;Q7Z460;Q96TC7;O15392;Q9BW27;Q96Q89;Q9UI95;Q8IWC1;Q96T76;Q15058;Q9H6D7;Q96JM3;P50995;Q96DB5;O00139;Q9NXR1;Q15398;Q66K89;Q9GZM8;P01106}



;Q53HL2;P54274;Q15013;Q8WWK9;P36405;P63172;P50748;Q9NS23;P31749;Q69YQ0;P35579;P04792;Q9Y283;P06400;Q9UNH5;Q96R06;Q9BXS6;Q68CZ6;Q96CS2;O43264;Q8IZT6;Q7Z7K6;P49454;O14965;Q8N0Z3;Q14980;Q6IQ19;Q14511;Q15691;Q13042;Q9ULD2;Q9NVX0;O60447;Q8WVK7;A8MVW5;Q13185;O75935;Q66K74;Q94927;P50402;Q12834;P30260;Q3KQU3;Q9Y5B0;Q08J23;P60953;P35580;Q9ULW0;Q5TB80;Q9UMS4;Q08AG7;Q1MSJ5;Q8TEW0;P83916;Q9UUK3;Q9Y657;Q6NZ67;Q9UJP4;O76095;Q96BK5;Q14194;Q96CW5;Q9UIP0;Q9H8V3;Q6PGN9;A6NKF1;Q99871;Q96BD8;P53675;Q9H4H8;Q5SW79;Q9Y2Y0;Q9Y3D0;Q6P258;Q9P258;Q9Y3A5;Q9Y237;O75122;Q7L5Y9;Q9BT25;Q49MG5;Q7Z4H7;Q02241;O43663;Q5VT06;Q99569;Q9NQS7;Q99741}

6216 Pathogen[ P14075] interacts with 88 human partners: {P60953;Q99871;Q14511;Q6NZ67;Q13042;Q6P582;Q9Y6D9;Q02241;O43663;Q5VT06;Q7Z4H7;Q49MG5;O76095;Q9UKT4;Q9NQS7;Q96R06;Q8WVK7;Q08AG7;P53675;Q9Y5B0;A8MVW5;Q7Z460;Q9Y2Y0;Q68CZ6;Q96TC7;Q9BXS6;Q7L5Y9;P04792;Q96BD8;Q9UI95;P63172;P50402;Q9BT25;P01106;Q96BK5;Q9ULW0;P50995;Q9BW27;P54274;P31749;Q15013;Q5SW79;O00139;Q9P258;O75935;Q6IQ19;O14965;Q13185;Q3KQU3;Q15691;Q5TB80;Q96CS2;P35579;Q96DB5;Q9UMS4;Q9H4H8;P06400;P83916;Q8IX90;Q66K89;Q7Z7K6;A6NKF1;Q8IWC1;Q53HL2;Q6PGN9;Q9NVX0;P50748;Q8WWK9;Q99741;O94927;Q5UIP0;Q08J23;O43264;Q14980;Q1MSJ5;P30260;P49454;Q9UNH5;Q9H6D7;Q96Q89;Q12834;Q96CW5;Q00610;Q96T76;Q8N0Z3;Q9UUK3;Q9Y3D0;Q9Y3A5}

6217 Pathogen[ P0C206] interacts with 117 human partners: {Q96TC7;Q5SW79;Q08J23;Q9UMS4;P53675;P50402;Q96DB5;P31749;Q96Q89;Q5UIP0;Q9UBP0;Q15019;Q9Y6D9;Q9ULW0;Q96CW5;P50995;Q15691;Q9BT25;Q00610;P04792;Q8IZT6;Q6PGN9;P49454;Q96BK5;Q99741;P30260;Q14141;Q02241;Q9GZM8;Q8IX90;Q66K74;Q9Y283;Q9NVX0;Q8IWC1;Q69YQ0;Q9UJP4;O75122;Q9UKT4;P54274;Q8TEW0;O60447;A8MVW5;Q96BD8;A6NKF1;Q9UNH5;Q9Y5B0;Q9Y3D0;Q7L5Y9;P83916;Q9UUK3;Q6IQ19;Q99569;Q7Z7K6;Q96CS2;O43663;Q7Z4H7;Q9ULD2;Q5VT06;P35579;O94927;Q53HL2;Q96JM3;Q9H8V3;Q49MG5;O15392;P60953;O00139;Q9Y657;Q9P258;Q96T76;P36405;Q15013;Q14194;Q9Y237;Q6P582;Q9H6D7;Q15058;Q9Y3A5;Q99871;Q13185;Q8N0Z3;Q9NXR1;P01106;Q16181;Q9BXS6;Q1MSJ5;Q9Y2Y0;O14965;Q14980;Q7Z460;Q9NS23;Q9NQS7;O75935;Q66K89;P63172;Q3KQU3;Q13042;P50748;Q15398;P35580;Q9BW19;O43264;Q08AG7;Q8WWK9;Q68CZ6;Q5TB80;Q14511;Q12834;Q8WVK7;Q9UI95;Q6NZ67;Q9BW27;Q99986;O76095;Q96LZ7;Q9H4H8;P06400}

6218 Pathogen[ P03363] interacts with 105 human partners: {A6NKF1;Q13042;P49454;Q96DB5;Q7Z7K6;Q9Y5B0;Q9Y6D9;Q9UNH5;Q08J23;Q66K74;Q5VT06;P83916;Q14194;P35579;Q96BD8;Q96BK5;Q9Y3D0;Q1MSJ5;Q8WWK9;Q14980;Q15691;Q6P582;Q9ULW0;O43264;O60447;Q15398;Q9Y3A5;Q9Y657;Q9H6D7;Q02241;Q9P258;Q9BT25;Q66K89;Q9H4H8;Q53HL2;Q00610;Q8WVK7;Q9BXS6;P50748;Q49MG5;Q99569;P30260;P06400;Q13185;P01106;Q14807;Q8IX90;P50995;Q96TC7;Q8IWC1;Q6PGN9;A8MVW5;Q96JM3;Q8IYML1;Q96R06;Q68CZ6;Q96T76;O94927;P63172;P31749;Q9UUK3;Q14511;P54274;Q6IQ19;Q9NQS7;Q99741;Q9NVX0;O75935;Q08AG7;Q5UIP0;Q7Z460;Q9UKT4;Q9UI95;Q9Y283;Q8N0Z3;Q96CS2;Q99871;P50402;O76095;Q9NS23;Q9Y237;Q15013;Q9UJP4;Q15058;Q96Q89;Q12834;Q9Y2Y0;Q9UMS4;O43663;Q9NXR1;Q14141;O00139;Q6NZ67;Q9ULD2;Q7Z4H7;P60953;P53675;Q5TB80;Q8IZT6;P04792;Q9BW27;Q96CW5;Q69YQ0;Q3KQU3;Q5SW79}

6219 [Cluster 566]GO:0000938+C cellular\_component [name] GARP complex [def] "A quatrefoil tethering complex required for retrograde traffic from the early endosome back to the late Golgi and biogenesis of cytoplasmic vesicles." [GOC

6220 Pathogen[ Q2Q067] interacts with 2 human partners: {Q5VIR6;Q9P1Q0}

6221 Pathogen[ P0C214] interacts with 2 human partners: {Q5VIR6;Q9P1Q0}

6222 Pathogen[ P03346] interacts with 3 human partners: {Q5VIR6;Q9UID3;Q9P1Q0}

6223 Pathogen[ Q85601] interacts with 3 human partners: {Q5VIR6;Q9P1Q0;Q9UID3}

6224 Pathogen[ P14079] interacts with 3 human partners: {Q9UID3;Q9P1Q0;Q5VIR6}

6225 Pathogen[ P03383] interacts with 2 human partners: {Q9P1Q0;Q5VIR6}

6226 Pathogen[ P03410] interacts with 3 human partners: {Q9P1Q0;Q5VIR6;Q9UID3}

6227 Pathogen[ P14075] interacts with 2 human partners: {Q5VIR6;Q9P1Q0}

6228 Pathogen[ P0C206] interacts with 3 human partners: {Q9P1Q0;Q5VIR6;Q9UID3}

6229 Pathogen[ P03363] interacts with 3 human partners: {Q9UID3;Q9P1Q0;Q5VIR6}

6230 [Cluster 567]GO:0005737+C cellular\_component [name] cytoplasm [def] "All of the contents of a cell excluding the plasma membrane and nucleus, but including other subcellular structures." [ISBN

6231 Pathogen[ Q2Q067] interacts with 2267 human partners: {Q3KQU3;Q9BTW9;Q92783;O95363;Q86W56;P04156;Q96S95;Q7Z3C6;O95376;Q13562;Q5VSL9;P05204;P49454;Q09FC8;Q9Y253;Q8WW24;Q9H4I2;Q01844;Q92900;P05198;Q96TC7;O15511;Q14974;Q7L2H7;Q9Y473;O43290;Q8TCS8;Q9BU02;Q9NQG7;P07438;Q14526;Q9Y5K5;P30153;Q8WV37;Q9BRT2;Q9NWS1;Q12798;Q9UKI9;Q9UI26;Q9Y4R8;Q96N77;Q9Y2J2;Q5SZL2;Q9UBW5;Q4G0F5;Q8NH2;Q14151;Q9BZ55;Q9P2Y5;Q12905;O95671;Q9NNW5;Q8TAF3;Q8IUD2;Q8WZ33;Q01082;P27540;P17544;P30281;Q9BZL4;P52434;Q8NCF5;Q92750;Q96J02;Q9H3C7;Q8IXJ6;Q99613;Q9UL45;P62701;P22392;P46108;P53370;O60524;Q8NA42;O00213;Q9Y6X8;Q6FI81;Q8NHW5;O75351;Q9BTV5;Q96HA8;P35908;O00425;O75161;Q9H2G9;Q8WWX9;Q9Y3A2;Q96FV9;Q9ULR5;Q9GZT8;Q04864;P81877;Q9UHL9;Q9NYP9;Q9NXW9;O75832;P0C1Z6;Q16236;O60684;Q86U42;P48556;O15234;Q8WV44;P09917;Q13084;P26633;Q5TD94;Q9H2U2;Q96N21;P54252;Q8IWL8;Q6P387;C9JE40;P18754;P49458;Q96GE4;Q15013;P23381;P02545;Q6VN20;Q8IU60;P31749;Q92890;P35754;Q71F23;Q7LBR1;Q6P2H3;P40306;Q9BZE4;Q96GA3;Q9BQY9;Q14258;P50995;Q6ZN28;P62312;Q93034;Q14008;Q9Y2Y0;P42773;Q9UNS2;Q9H4X1;P46779;O00186;Q9H008;Q9H910;O14744;Q9Y6K5;O60239;P35321;Q9Y6D6;Q9Y613;O00410;P56524;Q93009;Q9BY41;Q9ULX6;Q9NRS6;Q9H0C8;Q9NQT4;Q96NU7;Q15631;P55036;Q99502;P07741;Q9HBZ2;Q9NRP3;P10827;Q9Y615;Q9P219;O75663;P20226;Q9NVN4;Q96KQ4;Q9HAU4;Q5D1E8;A9UHW6;P55957;P24385;Q99417;Q7Z6J0;Q9Y5V3;Q7Z4H7;P78559;Q3BBV2;O75340;O00303;Q9Y266;P49591;Q96NB3;O95273;P07195;Q6NUN9;Q63HQ0;P63104;Q96KN1;P07737;Q8N9R8;Q9UII4;Q9Y3F4;P39687;Q13033;Q15398;Q96QU8;O60664;Q13875;Q9UQ80;Q96RT8;Q70YC5;O43747;P55265;P63172;Q9Y4P1;P24278;P49790;Q9UD71;Q99638;Q9P209;O15519;Q9H063;Q96E14;Q05066;Q8NEF9;Q8WX93;Q14315;O60296;O60841;Q8TAD8;A6NGQ2;Q9H444;Q16589;O95391;Q9BY44;Q9NQW6;Q8NI35;Q9BUP3;Q8TD31;Q6ICB0;Q86UA6;Q86XZ4;Q9Y2D1;Q96C74;Q8IY63;Q14160;Q9NPB6;Q9BSF8;O95433;Q9Y3Q8;Q12888;O00512;Q96LI5;Q96B97;O00291;Q8NC



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6232

Pathogen{ P0C214} interacts with 2514 human

partners: 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6233 Pathogen[ P03346] interacts with 2860 human partners: {O95166;O43402;Q13439;Q86VQ1;Q15172;Q13425;Q08J23;O60921;P08107;Q9UPR3;Q6PRD7;Q96T92;Q9Y6N9;Q15723;O60437;Q12888;Q13596;O75179;Q6P3S1;Q5JU85;Q06330;Q9NVM9;Q8TEX9;A8MU46;Q9NSC5;Q7Z3K3;Q15773;Q9NZJ0;Q3C1V8;Q8IYI6;Q06945;Q66LE6;P59282;Q9NQG7;P15924;Q6SJJ9;P53805;Q5T5Y3;O75382;Q15833;Q13588;Q9Y5S9;P62136;Q9UI26;O00204;P54105;Q5SZL2;Q

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6234

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Pathogen[ Q85601] interacts with 2471 human

partners: 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3}

6235

Pathogen[ P14079] interacts with 2930 human partners: {P31751;P04083;Q96DC7;Q9H0U9;P36543;Q14CX7;Q5EBL4;Q13228;Q9UQL6;P51854;O00625;P28838;Q9BXW6;Q96QK1;Q9Y3U8;Q9NQG7;Q02952;Q15691;Q6NUQ1;O95373;Q9UKA4;Q14980;Q9H1X1;P46779;P28065;O15379;O75886;P07320;Q9UPW6;Q9H204;Q8TF09;Q7L2H7;Q9UHB4;Q2M2Z5;Q99436;Q96A56;Q8N2W9;P07316;Q8N9N2;O43516;Q96AB6;Q9P0N5;Q8WMM9;O75112;O14519;Q92844;Q96FX2;O14810;Q6VN20;P52565;Q9BXL7;Q96D03;Q99623;P22528;P54274;P52758;P05937;Q8TE04;P16452;A6NMX2;Q9Y4P9;Q9Y4G2;O00463;Q9NQW6;Q86YV9;Q9NR46;Q8IV48;P0CW19;Q14CS0;P80297;O00422;O75161;Q9NVR5;P11388;Q8NA72;O15069;Q49B96;Q9Y2J2;P0CJ70;P35579;Q99459;P41218;Q96IY1;Q9Y285;Q9NPI1;Q9BTW9;O60260;Q8NEY3;Q9UGV2;Q9H7T9;Q01105;P48643;Q8IX12;O43447;P08151;O94830;Q03188;Q5JVS0;Q8TC94;P0CJ74;O95166;P62333;Q9BQ95;Q8TEA8;O15164;Q8IXQ6;Q9BW27;Q9BRX2;P35237;Q96JI7;Q9UKT5;Q8IWL8;O14746;Q92979;Q6P587;O95425;Q9H0P0;Q9NWS1;Q9BWK5;Q9GZT9;Q6PGP7;P23381;Q9UL40;Q9BRT9;Q96FN9;O95628;Q68DX3;P26639;Q8WWX9;Q9H094;Q9UKV8;Q99743;P59282;Q9BZL1;P57678;Q86VNI;Q6P3S1;Q9UNH7;Q5TZA2;Q8WZ33;P09327;P05114;Q9UL33;P22531;Q93083;A9UHW6;Q99627;P05813;Q15287;Q9NPH2;Q8IWE2;P16278;Q9NPG2;Q12982;P35900;Q96K30;Q86XZ4;Q16890;P61923;P48556;Q8IXH6;P42357;Q9BQ90;Q9BQS6;P35326;O75618;P53327;Q9UPX8;O76075;Q08945;P61970;P41227;P09132;Q6XZF7;P10155;Q96C01;Q5TA31;P57723;Q9UPP2;Q96RS0;Q9NVQ4;P31948;Q96CF2;Q8WXC3;Q9UD71;Q96EY5;P12755;Q9Y3B2;P55055;Q15036;Q6UB98;Q9NR22;P23396

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6236 Pathogen[ P03383] interacts with 1983 human partners: {Q14244;Q6P3W6;Q9UD71;Q17RY6;Q7Z7A1;Q96MH2;Q86UA6;P08107;Q14683;Q9BRK4;Q1445

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Pathogen[ P03410] interacts with 2989 human

partners: 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6238 Pathogen[ P14075] interacts with 2065 human partners: {Q9Y224;P60953;Q8N490;P49321;Q9H307;Q9BQI5;Q14457;Q9H974;Q9H6Z4;P28069;P42704;Q8N196;Q96EB1;Q3L8U1;O95453;Q9P2Y5;Q969383;Q92797;Q9C0F3;P52630;Q96MT8;Q9NQG7;Q6P2E9;A6NFC5;Q9BY41;P11387;Q9UI26;Q9BZZ5;Q9UBW5;Q9P2W6;P06733;P05204;Q7Z3Z0;Q96BY2;Q96F07;P78560;Q99871;Q3SYG4;Q9BTM9;Q9BQE4;Q9UBS3;P29474;P42766;Q96AQ6;Q7Z2E3;P54136;P78537;Q15257;Q8NI51;P52292;O43617;Q96M11;Q99933;P51003;Q9NSC2;P22626;Q96PI1;O00213;P08729;Q14511;O15131;Q8TEQ6;Q15366;P61575;P43355;O14646;Q9UHL9;Q9UK73;P35869;Q9BRP1;Q9BUP3;Q15819;P40925;Q8N1G2;Q9H425;Q96GX9;O15234;Q8TAD1;P09132;Q9NQE9;Q8TB72;Q9BQS6;P63165;Q9UGC7;Q96CS3;Q9GZV5;Q9NTU4;P0CG34;P46781;Q15643;Q969S3;Q9C0E2;Q8TAT6;P63220;P53801;Q8IXW5;Q16543;Q68DX3;Q96GA3;P54105;Q96N21;Q96HJ5;P54253;Q9H788;P32969;P61960;O43303;Q96E14;Q8NEJ9;A6NDD8;Q9H4X1;Q9NP97;Q14602;O43402;P14866;O60239;P35321;Q86WG3;Q9BRV8;P06454;Q12962;Q9H2G9;Q9BYV8;Q09161;Q12983;O94811;Q96MT3;Q9ULC6;Q96JB2;Q8TAD8;Q9GZY1;Q96EY5;Q9H814;Q96PM5;Q53FT3;Q16719;P62495;Q6Q759;P55036;Q8WXF1;P25788;Q7Z3Y7;Q8ND61;Q14764;P11532;Q00005;Q99608;Q9Y266;Q8N8R7;Q86X95;Q13155;P19338;Q9GZT8;Q9Y375;Q08752;Q19900;O15111;P22532;Q9NQR4;Q99504;Q9Y2J2;Q6NZ67;Q9UBY9;Q9BVC6;O60841;Q00613;Q9GZU2;Q01850;Q6ZNE5;P23497;P55327;P55957;P23246;P41227;Q9HAP2;P12956;P56537;Q13042;P11142;Q9Y3F4;Q96IV0;Q96D46;Q8IXT1;Q8WXD5;Q8N3Z6;Q9UBC9;Q96FX8;O00273;Q9GZT9;Q15102;P31350;P28066;P07320;O15360;Q04206;Q9BSW2;Q63ZY3;Q9WH1H9;Q8IVM0;Q8NEY3;O14681;Q86YD1;Q96KQ4;Q99412;Q6P9F0;Q9P0W5;Q96EH3;Q14442;Q15528;Q8IWI1;O15265;Q9BUL8;P06132;Q8N3V7;Q9BSF8;P09913;Q9NX63;P78337;O00512;P24941;Q8WU39;P81274;Q9Y6H5;Q8N9A8;Q9H2C0;Q9GZS1;Q1W6H9;P40424;Q9NPC6;Q14526;Q969S8;Q8N9W8;P49902;P16989;O15069;Q9UMS0;P05783;P49006;Q14683;Q96KR1;P41250;Q9BSB4;Q13884;Q5D0E6;O96018;O60248;P25440;P55265;O95684;Q08999;P06744;Q6P582;Q8TD31;Q15006;Q9Y6D9;Q92844;Q15051;O14746;O15372;Q9NUL3;Q8WU90;Q02241;Q9UBF1;Q7L2H7;O43663;Q9NR46;Q9Y295;Q9BVT8;P23381;O15083;Q8IXQ6;O75347;P68036;Q9UPR3;Q9NPI1;P62851;Q07021;Q8N488;Q9H3H1;Q92979;Q6PRD7;P04733;Q9NTX7;Q86WI3;P11802;P42226;Q06323;O94874;Q5VZE5;O75832;Q9HB75;Q6NUP7;Q93034;Q8NFG4;Q9Y2D1;P68104;Q92734;Q9BRA2;Q9UMX3;Q8NDF8;Q5VT06;Q9NWZ5;Q9UM07;Q15759;Q9HCK5;Q14103;O75886;O75648;Q9UML6;Q86V81;P57772;P62324;Q8WYR1;A6NG73;P35325;Q4LE39;O00186;Q9NR22;Q13243;Q16656;Q8IY57;Q14160;Q96P70;P08865;Q9BQA1;O60828;P61576;Q5VU43;Q9UM82;Q16186;Q93015;Q7Z4H7;Q9UKX2;P80297;P11831;O60481;Q13769;O75410;P11172;O95295;Q8TAA3;O43236;Q9Y3C4;O43395;P62328;Q15554;P61970;Q9NPJ4;Q96C90;Q9BXJ9;P49756;Q5TD94;Q07157;Q8NA42;Q99615;P78545;Q86UE4;O60308;Q99619;Q96Q83;Q49MG5;A6NP61;Q92782;O76095;Q9H2T7;Q8N9R8;O14787;Q9UKT4;Q15697;O75791;Q9NPD3;P60900;Q08945;P49427;P34896;Q9NT62;Q9NQS7;O95397;Q5T749;Q9Y224;P27695;Q8N140;Q8IWI3;P62244;Q6U7Q0;O75143;Q9HT79;Q9BRP8;P40222;Q9UNY4;A6NK89;Q9H1Y0;P40855;P61579;P14635;Q6PJT7;P62879;P61326;Q7LBR1;Q12815;Q56P03;Q9UM11;Q86WX3;O43598;O43541;P47944;Q9BT78;Q5MIZ7;Q9H444;Q9H9G7;Q9BXM0;Q9UKN5;Q9C086;Q01831;Q9NWV8;Q9UHP9;Q8N5F7;Q9NSD9;O14713;Q02083;Q96R06;Q14493;O75582;P61088;Q01201;P57678;Q96GV9;Q96N16;Q9BV57;Q9BVN2;O95391;P80723;P51808;Q8WVK7;O75444;Q96MH2;P78406;P26196;Q8IVS8;Q08AG7;Q9NVR2;P30281;P30279;Q8WUX9;P28094;Q13901;P43487;Q8WUM4;Q96JE9;Q13425;P61572;Q12816;P32189;P55212;P0C1Z6;Q6NUN9;P49720;Q9UKT7;Q9Y252;Q9NVV4;Q8WYP5;Q86SQ7;A8MVW5;P08133;P61244;Q9NSI6;P50613;Q13287;Q9UBF2;P61604;Q9NX18;Q6NUQ1;Q8NHV4;P41218;Q7Z460;Q5H9F3;Q9H467;P26651;Q8IV36;Q12905;Q92600;Q6P1M3;P78559;Q01860;Q9BRX2;P36639;Q9Y6F6;Q5H9J7;Q14139;Q6PI26;Q9NY61;Q9NS64;P61201;Q8TAA5;Q9NX46;P38935;Q96SL8;P60510;Q86UW6;Q9UGP4;Q14839;Q9UBD0;Q03933;P34949;P42768;Q92AA5;Q53GS7;P51610;P62633;Q13561;Q9Y2Y0;Q9BSU3;Q92973;Q8IY31;O75419;P35548;P11161;Q8NC51;P61573;P15172;Q6PGP7;Q92783;Q15327;Q9Y4P1;P56524;P05813;Q00994;Q9BV20;Q9NTM9;O43918;Q9NP79;O00422

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6239

Pathogen[ P0C206] interacts with 2966 human partners: {P27695;Q9Y536;P49589;O95363;Q96P71;Q96HA7;Q13439;O95271;Q5VUA4;Q5BJF2;Q9BPU9;P61289;Q8TCI5;Q53GS7;Q9NQC7;O43598;Q8TF30;A6NGQ2;Q7Z3C6;Q4L180;Q8N720;Q6IEG0;O43542;Q96TC7;Q9NY87;O75340;Q5JTW2;Q13112;P06733;Q9UNN5;Q9H1K1;Q6NUN9;Q5SW79;A9UHW6;Q15072;P61572;Q9C000;Q92688;O14604;Q8TC94;Q9Y253;Q6NXT1;O14964;Q9BRG1;Q9NQC8;Q16831;P46937;Q16851;O14645;O14662;Q15723;Q9UKC9;O15511;O43502;P0CJ74;Q13875;Q12982;Q7L2H7;P09132;P84022;P0CG35;Q15287;Q92597;Q9Y224;Q6ZVT0;Q9UJT9;Q9NZ63;Q8IXH6;Q9HCU9;Q9UFF9;Q9BZQ8;Q9NG7;O60716;P78358;Q99436;Q5PRF9;Q9UJZ1;O15182;P28062;Q9NPA3;Q9BSB4;P10144;Q86Y01;Q9UFN0;Q68DK2;P0CG34;Q96RS0;Q9Y3A3;P05787;O43511;Q5H9J7;Q96AX9;Q96DG6;P62324;P48643;P31949;Q9H765;Q9NZV6;Q8N137;Q86XR8;Q8WUF5;Q9NSE4;Q9UBW5;Q15435;Q4G0F5;Q9HBL0;P07195;Q9BXP3;P46939;P67809;Q08J23;Q9NQ87;Q96L92;Q86V15;O43324;Q9UMS4;O14579;Q96PU5;Q86WH2;P10914;Q8IXQ5;Q9Y3E1;Q13501;Q13829;Q92769;Q13541;P0CG48;Q8WYP5;Q96NL6;P07814;Q92539;P07438;Q9BZE0;P13640;Q6MZT1;P0CJ71;Q63HQ0;Q01082;Q9P2N5;O15131;Q9NPF3;Q9H074;Q8N0X7;O60291;O43933;Q96KC9;Q99733;P58340;Q8IXW5;Q8N140;Q9HB71;Q9NZH5;Q15468;Q9UHP9;Q86TP1;Q9NR46;Q9Y2Z0;Q14019;Q9BTE3;P62877;Q9BYE4;P05062;O95273;P0DI82;Q9Y5L0;Q0VDF9;Q5T1N1;Q9UKG1;Q9Y678;Q8IUR6;P53805;Q99613;O75952;O00148;Q9Y4H4;P51854;Q96Q83;Q9Y3F4;Q8WUX9;Q9UN37;Q96M02;Q05195;Q8N8E3;P60709;Q9NQE9;Q8NHW5;Q13601;Q92575;Q8N9N2;O95359;O60481;O94986;Q9HB19;O43159;Q14103;P13010;Q9NX46;Q9UM54;Q12988;P14678;Q9ULR5;P17661;Q496M5;P31483;Q78352;Q9Y295;Q96DB5;Q9Y2D1;Q8IZD9;P06396;Q9HCK5;Q9BVA0;Q7Z2X4;Q9GZV4;Q9UHL9;Q8TAF3;P50452;Q15466;Q6PCD5;Q9H4A6;Q8WU90;O75832;Q9BZI7;Q504Q3;O15360;P45973;Q96RT1;Q13568;Q96MM3;Q9UDY4;Q96AB6;Q15365;P36543;P09917;Q9UHN1;Q5SZL2;O00167;Q8NEZ2;Q13077;Q96DC7;P49790;Q9GZ1;Q9BYG3;Q8WXI4;Q9NSP4;Q6IS14;Q9C0C7;P39687;Q9NPF4;Q15545;P0CJ76;Q96N21;Q07955;Q95149;Q6ZMR3;Q8NEF9;Q86TB9;O14920;P52298;Q92556;Q99828;Q96SN8;Q9H201;Q6LV72;P55265;O15493;O95453;Q9P2Y5;O00221;P61576;P38935;Q96F07;P07864;P55789;P06401;Q86TC9;Q9H444;Q92844;Q9GZU2;P31749;P78537;Q8N6T3;Q92890;Q9Y6K1;P27797;Q7LBR1;P40306;Q9HA92;O75794;Q9NXH3;

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6240 Pathogen[ P03363] interacts with 2805 human partners: {Q8TDR0;Q8N6F7;O60763;Q53FT3;P80294;Q96B26;A6NGQ2;Q86X95;Q6IE81;Q9BQ89;Q96D46;Q14139;Q6XQN6;O95376;Q9P021;Q5BJF6;Q16236;P22681;Q5H9J7;Q9NPF5;Q6PRD7;Q6ZMW3;Q6WQI6;O60832;Q9Y6N9;Q15654;Q9UNN5;Q32P41;P46379;Q08AE8;Q9UBY9;Q13112;Q9NWF9;Q504Q3;Q9Y6Y0;Q3Y452;Q15020;Q92547;O75940;P17706;O75717;O75179;P05783;O75190;O75410;Q9H816;Q9Y2B5;Q9Y614;Q9NQT4;Q9NYG5;P80297;P49918;Q5T7N3;Q14653;Q96EA4;Q14978;Q9Y2Z4;Q9Y6J0;P43364;Q53QV2;Q9Y6K5;P62879;Q9Y3P8;Q9BUL8;P62314;Q12959;P41227;O43399;P51858;Q9C0F3;Q92979;Q96

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92748;Q96HA8;P24385;Q9UPQ9;Q13469;P49770;Q9BXF6;Q9UBQ0;Q9GZNI;Q8WTW4;Q99638;Q9NR48;P60228;Q13829;O14646;Q8IUD6;Q14103;Q6I9Y2;Q13023;O96028;Q6FFI0;Q9HBL0;Q9UMR2;Q9H4B6;P62851;Q8IW40;Q01201;O14862;Q969P5;Q9UKS6;Q9H2G9;Q01844;O94829;O43491;O75496;Q15628;P55795;Q96C92;Q8N9R8;Q96PI1;Q13875;Q9P2J5;Q01534;O00308;Q9BV20;Q92844;Q9BY60;P07438;Q96LT7;Q9Y3U8;Q12923;Q00978;P62888;Q8NI35;Q7Z3Z0;Q96RS6;P49458;O14531;Q9UL18;Q9H0I3;P20226;Q96F24;Q16526;Q9H171;Q8WUI4;O60239;Q9BVN2;Q9UQ13;Q7Z3Y7;Q8ND56;Q9NV79;Q9NY27;Q3J5U85;P56945;Q9UPA5;P41214;Q5VVK0;Q9Y237;Q8IWT2;P63241;Q15013;Q15172;Q8IW35;Q8TDN4;Q13485;O75175;Q9NXR7;Q460N5;Q15072;P10074;Q92804;Q86XP3;Q92625;Q9UIF3;Q9NQT5;Q9H0F6;O15182;P35606;Q12968;Q05195;P26651;O95865;Q9UIV1;Q9H0A6;Q86TB9;Q96RT7;O95714;Q76KD6;Q8NEZ2;P50749;O15083;P25685;Q9UJP4;Q969Q0;O43402;O95319;Q9BW92;Q8WUH2;P50750;Q16890;Q6PI77;O00167;Q96GV9;Q08945;Q9NQE9;Q9GZZ1;P13196;Q8IX12;Q8BTC76;Q92616;O15131;O60921;Q9UBL0;Q5TA31;Q6PIJ6;Q9NVM9;Q15269;O14662;Q9Y5V3;Q7Z6J0;Q8IUZ0;Q6P9F0;P19484;Q86WH2;P61981;Q8TC94;O00401;A6NK89;Q15257;Q68CL5;P84550;Q07820;Q15599;Q9NRI5;Q9UH77;Q70YC5;Q96P15;Q07955;O00625;O43159;Q8TAD8;Q6P3S1;O95551;Q96JJ3;Q13114;Q13136;Q5BJF2;Q8IZQ1;O14737;Q9UIL1;Q96NW4;Q9HCI5;P63261;P07315;Q8WWW0;P49591;O95336;P62244;Q8WUJ3;Q9UGJ1;O75531;O60506;Q9Y483;Q9H6Z4;Q9HCM9;Q6TFL4;P14672;A5PLL1;Q92540;O75398;P56211;Q15025;Q9NQY0;Q5VZF2;O95644;Q8N635;Q7Z5H3;Q9Y285;Q14671;A6NIX2;Q9BTE1;P78371;Q7Z5W3;P25440;Q9UMS6;Q5BXX8;Q9CF1;Q8IUR6;Q8NFI4;Q96CA5;Q8NE71;Q9NYL9;Q09FC8;Q86UL8;Q9UBF2;Q15714;Q8IVG9;P35232;Q8IYX8;Q9BXX4;P78406;Q9BZI7;Q86UB2;P61978;Q9Y536;Q6PD74;Q2VWA4;Q9P0R6;Q92834;P40424;Q9BZL4;Q9BRX2;P53992;O14618;Q96DX5;Q9Y5Y2;O15055;Q8IWT3;Q9Y4L5;Q9H3C7;P62241;Q9HCG8;Q5DL1E8;Q8IWN7;Q00613;Q86W56;Q9UKT9;Q9UMX2;Q9NRR3;Q13642;O75386;P04733;Q96J94;Q14934;Q2NL98;Q12873;B2RXF5;Q7L590;Q9UKF7;P80723;Q8WU39;O60930;Q9BZW7;Q9UI26;O95359;O43516;Q04864;Q6ZU15;O60524;P19532;Q6DN90;O95487;Q8WVB3;Q99816;Q9BZL1;Q9NUQ3;P67870;Q15058;O95373;Q9UJW3;Q9H568;Q9Y6F6;Q5SZQ8;Q06609;O14519;Q13596;Q6P1N0;Q8N7F7;Q9C004;Q7L3T8;Q8IZE3;Q6VNV20;Q9ULC4;Q9H213;Q27J81;Q9ULJ6;P47974;Q8TEA8;Q86XR8;Q9NTG7;P60866;Q04917;P61579;O60759;Q96GX9;O15259;Q9Y262;Q9Y244;P61247;O43745;Q9BYD9;Q96Q89;Q9UKY7;O95997;Q9H204;O60573;P55210;Q9NVW2;O75146;Q8TEQ6;Q9UHN1;Q9Y6B2;Q16612;Q9Y4P1;Q9Y224;Q96QG7;O60333;Q4VC44;Q13144;Q9NQZ3;O43918;Q9Y3A2;P09629;Q3BBW0;Q93034;Q7L2E3;O00165;P16989;Q9BQI9;Q9BZG8;Q9UUFF9;Q15031;Q2M3C7;O14508;P02489;Q00839;O43617;Q96LR2;P61962;Q12834;P55197;Q14008;Q96N95;Q9Y664;Q13084;Q96FT9;Q13330;Q8WXB4;Q9NP71;Q9NRJ4;Q7Z4G1;Q9UQN3;Q9UJM3;Q16637;Q12765;Q96MG7;Q9Y200;Q8NHY2;Q9Y3A3;Q9NZD8;Q9NS25;Q13363;Q8WWW38;Q9Y534;Q9Y448;Q06587;Q9GZR1;Q8IVM0;Q99728;Q3BBV0;Q99700;O95273;Q9P278;Q13404;Q96FF9;Q9UMS4;P30047;Q8NA72;Q96S59;Q8NPF5;P42773;Q9BV47;Q96AC1;Q9H910;O60662;Q9H1H9;P08047;O60248;Q8N4C6;Q9HCH5;Q96KN1;P16452;Q92796;Q9NQP4;Q9NPP4;P31483;Q8N8E3;O76041;O14512;Q86Y26;P11802;Q96013;Q9H2U1;Q9NVD7;Q6IS14;Q9UI46;Q5HYK7;Q96FN9;Q6P2P2;Q96U6;Q9H0M0;O00192;Q8WXF9;Q46M11;P55060;Q9NX63;Q9UKT7;P82094;Q13541;Q9NP97;O75821;Q1W6H9;Q0VG06;O43663;Q86YF9;P51116;Q9H009;Q8IX03;Q9NP79;Q9H6Y2;Q93083;Q9H2C0;Q9Y6D6;O43390;P07814;Q9BU02;Q9NPA3;Q9BUZ4;Q96KR1;Q9Y238;O75626;Q8NPF9;Q13761;Q9NZT2;Q07020;Q9NXR1;Q8N6W0;Q9Y6Y1;Q9NXX0;P39023;Q15935;Q8WXF1;Q9Y6R0;Q071105;Q9UKC9;Q9C0D2;O14604;Q14493;Q14141;Q96TA1;Q8TDM0;O95429;P23258;O00139;Q9NPC6;P37198;Q96A00;Q96C86;O43255;Q9BQI5;Q9BWS0;Q107X0;P30153;Q9BRU0;Q9Y4B6;Q8TF46;P18754;P14678;P43355;Q96JB8;Q9H329;Q96L03;Q86WJ1;Q99719;Q9NWS1;O14556;Q9P219;O60299;P17544;Q00577;Q6UUV7;Q6NZ67;P30307;Q96EY1;P36639;P49006;Q13287;Q7Z5K2;O60828;Q6ZS17;Q49MI3;Q9NZJ0;Q8N3F8;Q676U5;Q8N2W9;P30281;Q2KHM9;P35573;O94874;Q86SQ7;Q86W54;O95810;Q96PM9;Q7Z5L9;Q6Q759;Q8N1E6;P62826;Q08211;Q6NYC8;P52434;A8MU46;P63302;O14641;P05204;O43592;Q9UBC3;P52292;P48595;P49901;P19429;Q9NRD1;Q9NR12;Q9UQB3;Q9H9T3;Q9UJG1;Q9UFN0;P39880;P62917;Q13813;Q9UK73;Q9ULD2;Q9NS73;P55884;Q13137;Q9Y2B4;Q96N16;O43715;Q0VDF9;Q96LB3;Q6P2C8;O43708;O43237;Q9BT81;Q9UJT2;Q99459;Q13352;P78337;Q8TD16;P15172;Q7Z4H7;Q14764;Q96MH2;Q99666;Q5MIZ7;Q96HA7;Q7Z417;O15534;Q16658;Q8N987;O60518;P60953;Q8N9W8;Q05BV3;Q8TDG2;Q6ICB0;Q99717;P08238;Q052W1;Q96018;Q5H9L4;O60716;Q9BRT9;P48643;O00170;Q8WWL2;Q8IUD2;Q06520;O43598;Q9UPW6;O00257;Q9PQ22;Q5T890;Q15047;P24666;Q15154;Q5TB80;Q96NB3;Q15181;Q9Y2T7;Q9UBD0;Q96B67;Q969F9;Q9NRC8;Q8WYQ5;Q6NUP7;Q7L5D6;Q15643;Q9H4I2;Q9NWX5;P40121;Q969S2;Q8TF74;Q8NEJ9;P27986;O95166;Q5H9R7;Q76FK4;Q5T160;Q00536;P67775;Q92817;Q969S3;Q6IQ23;Q9H6T0;Q6QNY0;O15198;P06730;Q9Y473;Q8TD31;Q96A73;Q96N21;Q96FJ2;Q9BTD8;Q14678;Q8NCF5;Q9NMT9;O43324;Q9ULQ0;Q93008;Q86XL3;Q2M2I5;Q8IZT6;O95149;Q9UMX3;Q9NUP1;Q99933;Q14683;Q6MZT1;Q14203;P78347;Q9H069;Q9UBW8;Q9Y5K6;Q8N9B5;Q13233;P04792;Q8IXH6;A6NP61;Q96HR8;Q8WVJ9;Q12982;Q15006;Q9ULX6;Q86SH2;O75182;Q9HCJ3;Q8IV53;P55327;Q2M2Z5;Q9UII4;A6NDB9;O43236;Q9BSJ2;Q86TP1;Q9NPI6;Q9HD26;O95833;Q9NSN8;A6NG73;P0C2Y1;Q9Y2J2;Q9BZE0;Q5VZE5;Q9UKG1;Q70IA6;Q9BTV5;Q92993;P38935;P62701;P11166;Q9NWD9;Q96B42;Q01860;Q9Y5S9;Q8W 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6241 [Cluster 568]GO:0043234+C cellular\_component [name] protein complex [def] "Any macromolecular complex composed of two or more polypeptide subunits, which may or may not

- be identical. Protein complexes may have other associated non-protein prosthetic groups, such as nucleotides, metal ions or other small molecules." [GOC
- 6242 Pathogen[ Q2Q067] interacts with 118 human partners: {Q14974; Q9P2Y5; Q9NNW5; O00213; Q14008; Q14744; Q9Y615; Q9Y5V3; P63104; Q13033; P49790; Q95782; A6NGQ2; Q9NPB6; Q8WY54; P01106; Q9UKX2; Q13485; P30793; Q9UDY8; Q9P0M2; Q9UI30; Q00613; Q01105; P08133; P20749; Q9Y5N5; Q04206; P50502; Q12933; Q12933; Q96B36; Q13884; Q95999; P36956; Q9BWW4; Q96ST3; Q6ZRS2; Q86YF9; Q53HL2; Q6ZNA4; Q14457; Q13158; Q9Y2D8; Q14790; Q9Y311; Q8N726; P11388; Q86UL8; P31948; Q13541; P11142; O75381; Q9NQS7; P11532; P23769; P59047; P26678; P49356; P25791; P11171; P84022; Q9HB19; P46939; Q12834; P36873; Q2VPK5; O00255; O15105; P06396; Q13127; P09874; Q02410; Q9NVD7; Q9NR77; Q9H0B6; O75030; Q15796; P62879; Q13216; Q15466; P19838; P20823; Q9H0C5; P23258; Q14839; P25963; Q14686; O95983; Q969H0; P31946; O75150; Q13425; Q15833; P40855; Q9HCK8; Q9ULZ2; Q9Y4P8; Q9H808; P27986; Q92793; Q86U70; O94817; P35579; P30047; P49593; Q92466; P15923; Q9UMX0; P23297; Q00987; Q13023; Q9H0I3; Q9H1Y0; P49715; Q15750; Q15906; Q9BV73; P35237}
- 6243 Pathogen[ P0C214] interacts with 120 human partners: {Q14457; Q15833; Q9BWW4; O00213; P60709; Q9Y3I1; Q9Y615; P35237; P32243; Q00613; Q9Y5V3; Q14008; Q9UKX2; Q9Y376; Q53HL2; P19838; P62993; Q00987; Q9UM54; Q13158; P40855; Q9Y2D8; Q13023; Q9UDY8; P08133; Q9P0M2; P23769; Q92793; Q13033; P84022; Q6ZRS2; Q9H808; P23258; Q15906; Q04206; O75381; O75030; Q8N726; P06396; Q13884; Q14686; P31948; Q01105; Q9UI30; Q13216; P11532; Q9H0B6; Q9HB19; P30793; Q9NPB6; P49790; P15923; Q13425; P25791; Q2VPK5; O95983; P49356; Q86U70; O95999; Q12933; P46939; Q13485; Q9Y4P8; Q96B36; Q12834; O15105; O94817; P20749; Q9BUK6; Q9Y5N5; Q9HCK8; Q15796; P25963; P11388; P62736; Q9NR77; P62879; Q13127; Q9ULZ2; Q969H0; Q9P2Y5; Q6ZNA4; Q9HD26; Q15750; Q9H1Y0; Q8WY54; Q9BV73; Q02410; P36873; Q96ST3; O75150; Q9NQS7; P49593; Q14974; Q9H0I3; O95782; Q9NVD7; Q9NNW5; Q92466; P30047; Q86YF9; P31946; P63261; P27986; P26678; P23297; P59047; Q9UMX0; P01106; P11171; O00255; Q14839; Q15466; P09874; P50502; Q13541; P55072; P11142; Q14790; Q9H0C5}
- 6244 Pathogen[ P03346] interacts with 144 human partners: {Q13425; Q15833; Q96ST3; P59047; O00213; Q9P0M2; Q86U70; Q9NQC8; Q9HB19; Q8WY54; O75150; P36956; P23258; P50502; Q00613; P11388; P31270; P11277; Q13158; P23297; P25963; P35579; P62736; Q9Y2D8; Q13541; Q01105; Q13884; Q9UDY8; Q99626; P26678; Q9BUK6; Q9Y5N5; Q9ULZ2; Q15466; Q9UJQ4; P23769; O95983; P35237; P15923; Q15796; Q14744; Q15906; P60709; O43815; Q04206; O95782; Q53HL2; P11142; P31948; Q13023; Q9NPB6; Q9UMX0; P62993; Q14457; P20823; O15105; O75030; P49593; Q9Y376; P55072; Q9UI30; P46939; P49715; Q02410; Q00987; Q8TEW0; Q12834; P20047; O95999; Q86YF9; Q9Y371; O75381; P01106; Q9BWW4; Q96B36; P84022; P25791; P08133; P11171; P17542; P49356; Q13033; Q86UL8; O00255; Q9HD26; P36873; Q14008; P51587; Q9HCK8; Q9UKA4; Q9H808; Q9NQS7; Q9NR77; Q6ZNA4; O00522; Q15750; P11137; Q9Y5V3; Q13216; Q6ZRS2; P09874; Q9NVD7; P20749; Q9ULV0; P31946; P63104; Q14790; P56589; P50542; Q9UKX2; P49790; Q9H1Y0; P11532; P19838; P40855; Q13485; P06396; Q92793; Q92466; Q9P2Y5; Q8N726; Q2VPK5; Q9Y2J0; O96011; O94817; P23243; Q969H0; Q9Y615; Q9Y311; Q9NP85; Q9NRD5; A6NGQ2; Q9H0I3; Q9Y4P8; P27986; Q9H0B6; Q14839; Q13127; Q9NNW5; Q9H0C5; Q14686; Q14974; Q9BV73}
- 6245 Pathogen[ Q85601] interacts with 128 human partners: {Q14457; P01106; O00213; Q9Y3I1; P63104; P09874; Q9ULZ2; P62879; P31946; Q13127; Q9NVD7; P62993; P06396; Q15750; Q15466; Q13884; Q14008; Q969H0; Q15833; Q9NQS7; Q86U70; Q9P2Y5; Q13158; P35579; P49593; Q01105; Q9UDY8; Q13216; Q14790; O75030; Q86UL8; P23769; O43815; Q53HL2; Q9Y5N5; P31948; Q9Y376; P11532; Q96B36; P11171; Q2VPK5; P23297; O95983; O14744; P35237; Q00613; O94817; Q12834; Q13541; P30793; Q14974; P30047; Q9NNW5; P27986; Q9H0I3; P60709; P23258; Q14686; Q9UKX2; P25791; Q9H808; Q8N726; Q12933; Q9Y4P8; Q9BV73; Q9Y2D8; Q9HD26; P36956; P63261; Q9H1Y0; Q04206; P36873; Q9Y5V3; P11142; P46939; Q13425; Q9UI30; Q9BWW4; Q6ZRS2; P11388; Q9NR77; O00255; P49356; Q9NPB6; Q13033; P15923; P32243; Q9H0C5; O75150; P84022; Q9P0M2; Q9HCK8; P49715; Q8WY54; Q9Y615; Q15906; Q6ZNA4; Q9BUK6; Q9HB19; P08133; O15105; Q02410; P50502; Q9UM54; O95999; Q92793; Q13023; Q92466; O75381; Q00987; P19838; P20823; Q13485; P62736; P49790; Q9H0B6; P20749; P51587; Q9UMX0; P40855; P51955; Q86YF9; Q15796; Q14839; O95782; P59047; Q96ST3; P25963}
- 6246 Pathogen[ P14079] interacts with 148 human partners: {P04083; Q9UKA4; O75192; O14810; P11388; P35579; Q01105; P35237; Q96HA9; P09874; P31948; P63261; Q9H0I3; P11142; Q06413; P40855; P49593; Q969H0; P11532; P61421; P11171; Q9Y4P8; O95999; P56589; Q9Y5N5; P36873; Q96ST3; Q13023; P39656; Q9UMX0; Q9P0M2; Q92793; Q13033; Q02410; P24588; Q86U70; P16298; Q9BUK6; O43815; P51587; Q15070; Q6ZNA4; Q8N726; O00213; Q15750; P68363; Q9BV73; Q6ZRS2; Q9NP85; Q587J8; Q9Y615; Q13216; Q9UKX2; Q9UM54; Q9Y371; P15923; Q9BTE0; O94905; P30793; Q9H1Y0; A6NGQ2; P46939; Q9HB19; Q13541; Q00987; P63104; Q9H808; Q8TEW0; Q9HD26; Q00613; Q15833; Q8WY54; Q9ULZ2; O14744; Q9Y5V3; P50542; Q15906; O96011; P51955; O95782; Q14790; Q86UW1; P31946; P49715; Q9BWW4; O75477; P25791; Q2VPK5; O60256; Q9Y478; Q14974; P23258; Q8WZ55; Q9UJQ4; P60709; P49356; Q9HCK8; O95983; P49790; P11277; Q9UI30; P23297; P01106; P32243; Q86UL8; Q53HL2; Q6PJW8; Q12933; Q9NQS7; Q14839; P20749; P62993; Q13158; Q8IYM0; Q9NNW5; Q86YF9; Q96B36; Q9NQC8; Q92466; O75381; O94817; P26678; P11137; Q14558; Q15466; Q9NPB6; Q9Y2D8; Q13127; O75030; Q14457; O15105; Q9Y3I1; Q9H0B6; Q9NR77; Q9NVD7; P36956; Q9P2Y5; O00255; Q9Y4J8; Q9Y376; P23769; P50502; P59047; Q14686; P30047; O00522; Q14008; Q9H0C5}
- 6247 Pathogen[ P03383] interacts with 103 human partners: {Q14457; Q9NQS7; P27986; O00213; P62879; Q9Y3I1; Q14839; Q01105; Q13485; Q14008; Q13216; P32243; Q13884; Q96HA9; Q9H0C5; P50502; P31946; P01106; Q86U70; Q9HD26; P23297; Q9BWW4; Q13023; P31948; P20749; Q14686; Q9BV73; P23769; O75030; P15923; Q9H0B6; Q6ZNA4; Q96B36; Q9H1Y0; Q13158; P46939; O14744; P36873; Q12834; O15105; Q53HL2; P84022; P25791; Q9H808; P63104; A6NGQ2; Q9H0I3; Q13541; Q12933; Q9ULZ2; P09874; Q9UKX2; Q9Y5N5; Q9Y5V3; Q9UMX0; Q15466; O75381; Q9NPB6; P11532; O95782; Q9NR77; Q00613; O00255; P26678; P11142; P25963; Q14974; O95999; Q969H0; Q9P2Y5; Q9HCK8; Q8WY54; O95983; Q15906; Q9Y4P8; Q15796; Q86YF9; P35237; Q04206; Q02410; P35579; Q96ST3; O94817; Q13033; Q9UI30; Q92466; Q9Y2D8; Q2VPK5; O75150; P19838; Q9NNW5; Q9HB19; P08133; P30047; P49790; Q9Y615; Q92793; P40855; Q13127; Q13425; Q8N726; P06396; Q15750}
- 6248 Pathogen[ P03410] interacts with 159 human partners: {P84022; O75192; Q00613; P20749; Q04206; O95782; P30047; P19838; P36956; P27986; Q6ZNA4; Q14974; P11137; Q15833; P62736; Q9UKX2; Q9P2Y5; Q9UKA4; Q9H1Y0; Q8WZ55; Q9H0B6; P50502; Q9Y2J0

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;Q9BWW4;Q8IYM0;Q8N726;Q9Y615;P01106;A6NGQ2;Q53HL2;Q86UW1;P49356;P25791;Q9ULZ2;Q14686;
Q15750;P06396;P61421;Q9ULV0;O94905;O14810;Q9Y3I1;P11532;O75030;Q14008;Q8WY54;Q9H0I3;Q
14457;Q13425;O96011;P11142;P35579;P59047;O00213;P40855;Q01105;Q15906;O75381;Q9H808;P3
0793;Q9Y4P8;P15923;Q9NP85;Q92466;Q96ST3;Q13541;O94817;Q02410;Q13884;Q13158;Q9UI30;Q9H
D26;P11171;Q9UM54;Q96B36;Q13127;Q9BUK6;Q9UMX0;Q6ZRS2;Q9P0M2;Q92793;P08133;Q86YF9;Q9NR
D5;P49790;O75150;O95999;Q9Y376;Q969H0;Q14558;P51587;P46939;Q13033;Q86UW0;P2667
8;O95983;Q9H0C5;Q13485;Q9Y371;Q2VPK5;Q9HCK8;Q13023;P09874;Q12933;Q15466;Q9BVA1;P36873
;O60256;O00522;Q96HA9;P31948;Q12834;O15105;P11388;P63104;Q13216;O75477;P32243;P50542;
Q9Y5V3;P23769;P23258;P68363;P23297;P49593;Q8TEW0;O43815;Q9NPB6;P63261;Q9NVD7;Q86UL8;Q
00987;P56589;Q9HB19;Q9NQC8;Q15070;O14744;P25963;Q9Y5N5;P39656;O00255;Q15796;Q9UJQ4;P3
5237;Q14839;P62993;Q9NR77;Q9BTE0;P62879;Q9BV73;Q587J8;P11277;P24588;P60709;P31946;Q9Y
4J8;Q9NNW5;Q9NQS7}
6249 Pathogen[ P14075] interacts with 107 human
partners: {Q14457;Q9P2Y5;Q96ST3;O00213;Q02410;Q86U70;P11532;Q00613;P11142;Q04206;Q1575
0;O75030;Q13884;Q9UI30;Q9UKX2;Q9BWW4;Q15906;Q9NQS7;Q9H1Y0;P40855;P62879;Q14686;Q13425
;P23769;P08133;Q14839;Q9Y2D8;Q15070;Q9HD26;Q13216;Q15796;Q01105;Q9Y3I1;P15923;P25963;
P01106;P36873;Q9Y4P8;O75381;Q13485;O00255;Q96B36;P25791;Q6ZNA4;O95983;O14744;Q2VPK5;Q
12933;P26678;Q9Y5N5;P46939;Q9HCK8;P50502;Q9BV73;Q96HA9;O95782;O75150;P30047;Q9H808;Q1
3158;P27986;Q9NR77;P63104;P06396;Q9HB19;P35579;O15105;O95999;A6NGQ2;Q8WY54;Q53HL2;O94
817;Q9ULZ2;Q92793;Q13127;O75192;Q9H0C5;Q15466;P19838;P31946;Q9NPB6;Q14974;P84022;P497
90;Q14008;P30793;Q9H0B6;Q92466;Q9H0I3;Q9Y5V3;Q9NNW5;Q969H0;P31948;Q13033;P32243;Q86YF
9;Q13541;P35237;O75477;Q12834;P11171;Q8N726;P09874;P20749;P23297;Q9UMX0;Q13023}
6250 Pathogen[ P0C206] interacts with 152 human
partners: {A6NGQ2;Q9NQC8;P84022;O75477;P46939;Q13541;Q9HCK8;P60709;Q9HB19;Q9UM54;P0639
6;Q15466;O75192;P49790;Q96ST3;Q9P2Y5;Q14008;Q9UJQ4;Q13127;Q96HA9;P62879;Q8N726;Q9UDY8
;Q8WY54;P39656;O75030;P62736;P09874;O43815;Q86YF9;P51955;Q13023;O75381;Q9NVD7;O14744;
P51587;P56589;Q9Y2J0;Q6ZNA4;Q9UMX0;Q96B36;O95983;Q00613;O00255;O95999;Q14974;P25963;Q
9BUK6;Q9Y5V3;Q14457;Q969H0;Q6ZRS2;P49715;P36956;P35237;Q13158;Q9Y376;Q12933;Q9H0I3;P3
0793;P50542;Q15796;Q9Y4P8;Q9NNW5;Q13216;P27986;Q9H808;P62993;Q9Y2D8;Q9NR77;P31946;Q92
793;P30047;P49593;Q14839;O00213;O15105;Q8TEW0;P63104;Q9Y4J8;Q13884;P11137;P50502;P198
38;Q9H0B6;Q6P0J8;Q2VPK5;Q15070;P08133;P59047;P32243;Q13425;Q9H1Y0;Q9BWW4;Q9P0M2;Q1590
6;P40855;P63261;Q04206;P15923;Q14686;O94905;P20823;Q14790;Q9NPB6;Q9UI30;P35579;Q53HL2
;Q9UKX2;Q9BV73;Q13485;P55072;Q9Y5N5;P23258;P25791;O95782;Q9H0C5;P23769;Q96011;P20749;
O94817;P11277;Q9ULZ2;Q86U70;P11388;P26678;P01106;Q15750;Q92466;P11532;Q86UL8;Q13033;Q
9Y3I1;P23297;Q00987;Q9NQS7;P31948;P36873;P49356;Q15833;Q9NRD5;Q01105;P11142;Q9Y615;Q9
NP85;Q9HD26;O75150;Q12834;O00522;Q9UKA4;P11171;Q02410}
6251 Pathogen[ P03363] interacts with 119 human
partners: {A6NGQ2;Q86U70;P62879;O14744;P11137;P46939;Q9UJQ4;Q96B36;P11277;Q15466;Q0420
6;P35237;Q9P2Y5;P36873;P60709;Q99626;P50502;P35579;P25963;Q14457;O00213;Q9UKX2;Q6ZRS2
;P62736;Q12933;P31946;Q9H0C5;P68363;Q9UMX0;Q13033;Q9NPB6;Q9Y2D8;Q53HL2;O15105;P32243;
Q14839;Q13158;Q14686;P01106;Q9NR77;O75150;Q15750;Q6ZNA4;Q13425;Q9P0M2;Q13127;P06396;P
25791;P15923;P63104;Q13748;P20749;Q9Y3I1;P08133;Q9H0B6;Q9HCK8;Q2VPK5;Q9ULZ2;O75030;Q9
H808;Q9NQS7;P11532;O00522;Q02410;Q96ST3;O43815;O75381;P11171;Q15796;O95983;P84022;P31
948;Q969H0;Q9Y615;P59047;Q14974;Q9Y376;Q9Y4P8;P49790;Q13884;P19838;Q9HB19;Q9UI30;Q927
93;Q9Y5N5;P40855;Q13023;O95782;Q92466;Q9H0I3;Q13485;Q8N726;Q9Y5V3;P63261;Q86UL8;Q0061
3;Q9BWW4;Q12834;Q14008;P09874;P30047;Q13216;Q9NVD7;Q13541;Q86YF9;Q01105;P23258;P27986
;Q9HD26;O94817;Q9BV73;P23297;Q9H1Y0;Q9NQC8;P11142;Q15906;Q9NNW5;Q8WY54;Q15833}
6252 [Cluster 569]GO:0032390+C cellular_component [name] MutLbeta complex [def] "A
heterodimer involved in the recognition of base-base and small insertion/deletion
mismatches. In human the complex consists of two subunits, MLH1 and PMS1." [GOC
6253 Pathogen[ Q2Q067] interacts with 1 human partners: {Q9UHC1}
6254 Pathogen[ P0C214] interacts with 2 human partners: {Q9UHC1;P40692}
6255 Pathogen[ P03346] interacts with 1 human partners: {Q9UHC1}
6256 Pathogen[ Q85601] interacts with 2 human partners: {Q9UHC1;P40692}
6257 Pathogen[ P14079] interacts with 2 human partners: {P40692;Q9UHC1}
6258 Pathogen[ P03383] interacts with 1 human partners: {Q9UHC1}
6259 Pathogen[ P03410] interacts with 2 human partners: {P40692;Q9UHC1}
6260 Pathogen[ P14075] interacts with 1 human partners: {Q9UHC1}
6261 Pathogen[ P0C206] interacts with 2 human partners: {P40692;Q9UHC1}
6262 Pathogen[ P03363] interacts with 1 human partners: {Q9UHC1}
6263 [Cluster 570]GO:0005615+C cellular_component [name] extracellular space [def] "That
part of a multicellular organism outside the cells proper, usually taken to be outside
the plasma membranes, and occupied by fluid." [ISBN
6264 Pathogen[ Q2Q067] interacts with 13 human
partners: {Q9Y3A2;Q9H2P0;P15121;P01009;Q13123;P27797;Q07021;Q12904;P06396;P08697;P5045
3;P06744;Q6ZVN8}
6265 Pathogen[ P0C214] interacts with 25 human
partners: {P08697;P08294;Q12904;O95633;P29622;P36952;P06396;P05121;P15121;P10124;P0554
3;P54577;P10809;P07093;P01008;P30740;P50453;Q6ZVN8;P10909;P05120;P27797;Q13123;P80303
;Q9H2P0;Q9Y3A2}
6266 Pathogen[ P03346] interacts with 18 human
partners: {Q9NZU5;Q9Y3A2;Q6ZVN8;P80303;Q9H2P0;Q99784;P15121;Q07021;Q9Y215;Q12904;Q1312
3;P50453;P27797;P51858;P01009;P06744;P06396;O95633}
6267 Pathogen[ Q85601] interacts with 20 human
partners: {Q9NZU5;P06396;P36952;Q9Y3A2;P80303;P55145;P06744;P27797;P08697;P01009;Q1312
3;Q9H2P0;P15121;P05121;P50453;P05120;P01008;P30740;P07093;Q07021}

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6302 partners:{Q14746;P83436;Q08378;Q9Y2V7;Q8WTW3;Q9UP83;Q96MW5;Q9H9E3;Q96JB2}  
Pathogen[ P03383] interacts with 6 human

6303 partners:{Q14746;Q9H9E3;Q9UP83;P83436;Q96JB2;Q8WTW3}  
Pathogen[ P03410] interacts with 9 human

6304 partners:{Q96JB2;Q9UP83;Q9Y2V7;Q08378;Q96MW5;Q8WTW3;Q14746;P83436;Q9H9E3}  
Pathogen[ P14075] interacts with 6 human

6305 partners:{Q14746;Q96JB2;Q9H9E3;Q9UP83;P83436;Q8WTW3}  
Pathogen[ P0C206] interacts with 8 human

6306 partners:{P83436;Q9Y2V7;Q9H9E3;Q96JB2;Q14746;Q9UP83;Q8WTW3;Q08378}  
Pathogen[ P03363] interacts with 7 human

6307 partners:{Q9UP83;Q9H9E3;P83436;Q14746;Q08378;Q8WTW3;Q96JB2}  
[Cluster 574]GO:0000775+C cellular\_component [name] chromosome, centromeric region  
[def] "The region of a chromosome that includes the centromeric DNA and associated  
proteins. In monocentric chromosomes, this region corresponds to a single area of the  
chromosome, whereas in holocentric chromosomes, it is evenly distributed along the  
chromosome." [GOC

6308 Pathogen[ Q2Q067] interacts with 90 human  
partners:{P49454;P30153;O43463;Q96EE3;Q9NYP9;Q96H22;Q71F23;Q9Y3S2;Q12888;Q13352;Q7Z46  
0;Q6IPU0;Q96R06;Q6P1K2;Q9HBM1;O75935;Q5EE01;Q9Y6K1;Q8WYP5;Q9H3R5;Q5FBB7;P49450;Q13257  
;Q8N2Z9;A8MT69;Q03188;Q9UER7;Q15172;Q9NXR1;Q53HL2;P67775;O43684;Q8NBT2;Q9P258;Q8NFH4;  
P12270;Q9UBC3;Q9NQS7;Q9Y448;O43264;P62714;Q7Z7K6;Q92674;Q9BW27;Q96BT3;Q9BZD4;O43482;Q  
9NSP4;O75177;P36873;Q9BVC3;P50748;Q96JM3;Q96BK5;Q9H410;Q8NFH3;O60216;Q9UJ98;O75122;Q8  
IX90;Q8NG31;Q9Y6D9;P57740;Q96BD8;Q9H900;O95271;Q96IY1;Q96IK1;P46013;Q8WUM0;Q14683;Q8W  
VM7;Q9BU64;O95229;P45973;O14777;Q562F6;Q8NCD3;Q8N3U4;P51808;Q9H5I1;Q9H081;Q8WVK7;P497  
11;P83916;O15392;Q96EA4;P07199;O14576;Q6P0N0}

6309 Pathogen[ P0C214] interacts with 87 human  
partners:{Q9H081;O43684;Q96BK5;Q13257;O75935;Q9H5I1;Q6P0N0;Q96BT3;Q53HL2;O43264;P3015  
3;Q96EA4;P83916;Q96R06;P57740;Q5EE01;Q8WYP5;P50748;Q9UJ98;Q15172;O95229;Q9Y6K1;Q96EE3  
;Q6IPU0;Q8NBT2;P51808;P07199;Q6P1K2;O43463;P46060;Q562F6;P49450;P62714;Q8N2Z9;Q03188;  
Q8NCD3;Q75122;O43482;Q92674;Q9BW27;Q9UER7;Q96BD8;Q9HBM1;Q9P258;Q9NYP9;Q13352;Q9BVC3;P  
67775;Q8NFH3;Q7Z7K6;Q9H410;O15392;Q9H3R5;P49711;Q8IX90;Q14683;Q8N3U4;Q8WVM7;Q8NG31;O1  
4576;Q7Z460;P36873;Q9H900;Q5FBB7;Q96JM3;Q9NQS7;P45973;Q12888;P46013;Q9NSP4;P12270;Q71  
F23;Q8NFH4;Q8N0S6;Q9NXR1;O95271;Q96IY1;P49454;Q9Y448;O75177;O60216;Q9BZD4;Q8WUM0;Q9Y6  
D9;Q9BU64;Q8WVK7;O14777}

6310 Pathogen[ P03346] interacts with 98 human  
partners:{Q15172;Q12888;Q9Y6D9;Q8N2Z9;Q5FBB7;Q8NFH4;Q9NRZ9;Q8WUM0;Q9Y6K1;P45973;O9522  
9;P12270;O14576;Q7L2Z9;Q13362;O15392;O43684;Q96EE3;Q8N3U4;Q9BS16;Q92674;A8MT69;O75935  
;Q96R06;P51808;P57740;Q5EE01;Q8WYP5;Q14141;O43264;Q9NXR1;Q53HL2;Q9UBC3;O43482;Q96IY1;  
Q6P0N0;P62714;P67775;Q9P258;Q96IK1;Q9Y3S2;Q8NFH3;O43463;Q8NCD3;P30153;O14777;Q9BW27;Q  
96EA4;Q9UJ98;P46060;Q14683;Q15019;P36873;Q96BK5;P49711;Q9NQS7;Q9UER7;O562F6;Q7Z7K6;Q9  
H081;Q8NBT2;Q9HBM1;Q96JM3;Q9H410;O75122;Q9BU64;Q8WVM7;Q03188;Q8IX90;P50748;P49450;O95  
271;P83916;Q9Y448;Q9BVC3;P46013;P07199;Q7Z460;Q6IPU0;Q8NG31;Q8N0S6;Q9H5I1;Q9NYP9;Q9H3  
R5;Q9NSP4;Q96H22;Q6P1K2;O60216;Q96BD8;Q9BZD4;Q96BT3;Q71F23;Q13352;Q8WVK7;Q13257;P4945  
4;Q9H900;O75177}

6311 Pathogen[ Q85601] interacts with 89 human  
partners:{Q8NBT2;Q9H5I1;P49454;Q96JM3;P83916;O95229;Q7Z7K6;Q8NFH4;Q8NFH3;Q03188;P5180  
8;Q9H900;P46060;Q96EE3;P62714;Q9NQS7;Q9H081;Q9P258;Q96IK1;Q96BT3;O75935;P57740;Q5EE01  
;Q8WYP5;Q8WUM0;Q9UER7;Q71F23;O43264;Q53HL2;P30153;Q15172;Q8NG31;O15392;Q9H3R5;P07199;  
Q96EA4;O60216;Q8WVM7;P12270;O43463;P49711;Q96R06;Q8NCD3;Q12888;Q13257;Q92674;O75122;Q  
9BVC3;Q9BW27;Q13352;Q9Y448;Q562F6;Q9UJ98;Q9NYP9;Q9BU64;Q96BK5;Q14683;Q9BZD4;P45973;P3  
6873;Q96BD8;Q9Y6D9;A8MT69;O14576;Q9Y6K1;P49450;Q8N2Z9;Q9H410;P67775;Q8IX90;Q8N3U4;P50  
748;Q8WVK7;Q96IY1;Q7Z460;P46013;Q9NXR1;O95271;Q6P0N0;O43482;Q6P1K2;Q9GZM8;O14777;O436  
84;Q9HBM1;Q5FBB7;P51955;Q9UBC3;O75177}

6312 Pathogen[ P14079] interacts with 94 human  
partners:{P07199;Q6P0N0;Q13362;Q96IY1;Q03188;Q9BW27;Q5EE01;O43482;Q7Z460;P51808;Q8IX9  
0;Q96BT3;Q9HBM1;Q9Y6K1;Q8N0S6;Q96R06;O95271;P36873;P57740;O95229;Q8NBT2;Q15172;Q9BZD4  
;O15392;O60216;P46060;Q8NG31;Q6IPU0;Q9H900;Q9Y448;Q5FBB7;Q9H410;Q9H5I1;P45973;Q96IK1;  
Q8N3U4;Q9NSP4;Q99661;Q71F23;Q8WUM0;Q9UBC3;P51955;P12270;Q9UJ98;Q9UER7;Q8WYP5;Q8N2Z9;Q  
13257;Q96EA4;Q562F6;Q9BVC3;Q8WVK7;P49450;Q96JM3;Q96H22;Q8NFH3;Q96EE3;Q9P258;O43264;A8  
MT69;Q9NYP9;Q9H3R5;Q9GZM8;Q53HL2;Q8NFH4;Q9NQS7;Q8NCD3;Q92674;Q96BK5;Q9UQE7;P49454;Q9B  
U64;P30153;O14576;P83916;Q9NXR1;P50748;Q12888;Q96BD8;O75122;Q14683;Q13352;O75935;Q7L2  
Z9;Q9Y3S2;P49711;O14777;O75177;O43684;Q7Z7K6;Q6P1K2;Q9H081;Q8WVJ2;P46013}

6313 Pathogen[ P03383] interacts with 79 human  
partners:{Q14683;Q96EE3;Q13257;Q8WUM0;Q9NQS7;Q03188;P49454;Q12888;Q8N2Z9;Q8NFH4;Q7Z46  
0;Q6IPU0;Q96BD8;Q8NBT2;Q8N3U4;P51808;Q9H900;P49711;O43264;P12270;Q5FBB7;Q9P258;O43463  
;Q9UJ98;P57740;Q5EE01;Q8WYP5;P46013;P62714;Q9NYP9;Q96BK5;P30153;Q96H22;P67775;O75177;  
Q7Z7K6;Q13352;Q96EA4;O60216;Q96BT3;Q96R06;P36873;P83916;Q71F23;Q53HL2;O95229;Q9BW27;P  
45973;Q9BU64;Q9Y6K1;O43684;Q9BZD4;Q8WVK7;Q9UER7;A8MT69;Q562F6;O75935;Q9HBM1;Q9H410;Q9  
H081;Q8IX90;Q96IY1;Q8NCD3;Q8NG31;Q6P1K2;Q9Y448;P07199;O14777;Q6P0N0;O95271;Q92674;Q9H  
3R5;Q9BVC3;Q9H5I1;O43482;Q8NFH3;Q9Y6D9;P50748;Q8WVM7}

6314 Pathogen[ P03410] interacts with 97 human  
partners:{Q03188;Q9Y6G9;Q8IX90;Q7Z460;P62714;O15392;Q9BW27;Q8WVJ2;P51808;Q9NSP4;Q9H3R  
5;Q8N0S6;O43684;Q96H22;Q96JM3;Q9NXR1;Q9H410;Q8NG31;Q9GZM8;Q53HL2;Q8NFH4;Q6IPU0;Q15172  
;P46013;Q9UQE7;Q96BT3;P50748;Q9NYP9;P45973;Q562F6;Q92674;Q96R06;Q6P0N0;Q8NCD3;O60216;  
O75177;Q5EE01;O43264;Q7Z7K6;P49454;Q96EA4;Q96IY1;O14576;Q9Y448;Q9UER7;P12270;Q9Y3S2;O  
95271;O43482;Q6P1K2;Q9H5I1;Q71F23;Q14683;Q9BZD4;Q8WVK7;Q9BVC3;P36873;Q9HBM1;Q96EE3;Q9



UJ98;O75935;Q8N3U4;Q12888;P49711;Q8NBT2;Q9UBC3;P49450;Q5FBB7;P30153;Q8WUM0;P83916;A8MT69;P07199;Q8WVM7;Q13362;Q9H900;O95229;Q9H081;Q96BK5;O43463;Q96BD8;P57740;Q9Y6K1;P67775;Q9P258;Q8WYP5;O75122;Q8NFH3;Q13352;P46060;Q7L2Z9;O14777;Q9BU64;Q8N2Z9;Q13257;Q9NQS7;Q96IK1}

6315 Pathogen[ P14075] interacts with 81 human  
partners: {A8MT69;Q6IPU0;Q9Y6K1;Q14683;Q9Y6D9;Q9H081;Q562F6;Q9NQS7;Q8WVM7;P07199;Q96R06;Q92674;P51808;Q8WVK7;P57740;Q5EE01;Q8WYP5;Q7Z460;Q96IY1;Q13257;Q96H22;O43684;P45973;Q96BD8;P12270;O14777;P36873;O95229;Q8N2Z9;Q96BK5;Q9BVC3;Q9H3R5;Q9UJ98;Q9BW27;Q9H5I1;Q9BU64;Q96EA4;Q9P258;O75935;Q9NYP9;Q96EE3;Q96BT3;Q9Y3S2;Q5FBB7;P83916;Q9H410;P62714;P67775;P30153;Q8IX90;Q7Z7K6;Q8NFH3;Q9H900;Q53HL2;Q8NCD3;P49711;P50748;O43463;Q12888;Q9HBML;Q6P1K2;Q9UER7;Q13352;Q8WUM0;O43264;O95271;Q03188;Q8NG31;O43482;P49454;Q6P0N0;Q96IK1;P46013;Q71F23;Q8NFH4;Q9Y448;O60216;Q8NBT2;Q9BZD4;O75177;Q8N3U4}

6316 Pathogen[ P0C206] interacts with 101 human  
partners: {O95271;Q9Y3S2;Q96EE3;Q9HBML;O60216;Q8WYP5;Q6IPU0;P45973;Q9NSP4;Q9Y6K1;O14576;Q9H900;Q15019;P30153;Q9Y6D9;Q7L2Z9;P51955;Q15172;Q9H081;O14777;O43463;P46013;Q8N0S6;O75177;Q9Y448;Q9NYP9;Q9UER7;Q9BZD4;Q9H410;Q9UJ98;P57740;P49454;Q96BK5;P67775;Q13257;Q9BU64;Q14141;Q9GZM8;Q8IX90;O75122;Q92674;Q8WUM0;Q5EE01;P46060;Q6P1K2;Q8NBT2;Q96BD8;Q9H3R5;Q12888;Q9UQE7;P83916;P49450;Q8NCD3;P51808;Q14683;P49711;Q96IY1;Q9Y6G9;Q7Z7K6;Q96BT3;Q13352;Q5FBB7;P62714;Q53HL2;O43482;Q96JMJ3;Q9H5I1;O15392;Q6P0N0;Q9P258;Q96H22;Q8NFH4;Q562F6;P07199;Q13362;Q8N3U4;Q9NRZ9;Q9NXR1;Q96EA4;Q8N2Z9;Q16181;Q9UBC3;O43684;Q7Z460;Q9NQS7;O75935;Q8NFH3;P36873;P50748;Q96IK1;Q71F23;O43264;Q8WVM7;Q8NG31;Q9BVC3;Q8WVK7;Q9BW27;A8MT69;Q03188;P12270;O95229}

6317 Pathogen[ P03363] interacts with 86 human  
partners: {Q96EA4;Q9BZD4;P46060;Q9UJ98;Q96IK1;P49454;Q6P0N0;Q96IY1;Q6P1K2;Q9NYP9;Q7Z7K6;Q9Y6D9;P62714;P12270;Q9H081;P36873;Q92674;P83916;Q8NFH4;O95229;Q9H5I1;Q96BD8;Q96BK5;Q13362;Q8WYP5;Q8NFH3;P45973;O43264;Q8NBT2;Q8N2Z9;Q9P258;Q9UER7;Q53HL2;Q8WVK7;Q9BVC3;Q9Y6K1;Q9H410;P50748;Q8IX90;P49711;Q5FBB7;P07199;Q9H900;Q5EE01;Q8WUM0;Q96JMJ3;Q96R06;O43684;P49450;Q9NQS7;Q9NSP4;Q8WVM7;O75935;Q9HBML;Q7Z460;O95271;Q03188;Q8NG31;Q13257;Q8NCD3;Q71F23;P51808;P57740;Q96BT3;Q15172;O43463;Q9H3R5;Q8N3U4;O14777;Q9Y448;O43482;P46013;Q562F6;Q9NXR1;Q14141;P30153;Q9UBC3;Q13352;P67775;Q14683;O14576;Q9BW27;Q12888;O75177;A8MT69;O60216}

6318 [Cluster 575]GO:0000125+C cellular\_component [name] PCAF complex [def] "A large multiprotein complex that possesses histone acetyltransferase activity and is involved in regulation of transcription. The composition is similar to that of the SAGA complex, but includes fewer Spt and Ada proteins, and more TAFs." [PMID]

6319 Pathogen[ Q2Q067] interacts with 6 human  
partners: {Q9Y4A5;Q16594;O75478;Q12962;Q92831;Q16514}

6320 Pathogen[ P0C214] interacts with 6 human  
partners: {O75478;Q12962;Q16594;Q16514;Q9Y4A5;Q92831}

6321 Pathogen[ P03346] interacts with 6 human  
partners: {Q92831;O75478;Q9Y4A5;Q16514;Q12962;Q16594}

6322 Pathogen[ Q85601] interacts with 6 human  
partners: {Q9Y4A5;Q92831;Q16594;Q16514;Q12962;O75478}

6323 Pathogen[ P14079] interacts with 5 human  
partners: {Q9Y4A5;Q16594;Q12962;O75478;Q16514}

6324 Pathogen[ P03383] interacts with 6 human  
partners: {Q92831;O75478;Q9Y4A5;Q16594;Q16514;Q12962}

6325 Pathogen[ P03410] interacts with 6 human  
partners: {Q92831;Q12962;Q9Y4A5;Q16514;Q16594;O75478}

6326 Pathogen[ P14075] interacts with 6 human  
partners: {Q12962;Q92831;Q9Y4A5;Q16594;O75478;Q16514}

6327 Pathogen[ P0C206] interacts with 6 human  
partners: {Q16514;Q92831;Q9Y4A5;O75478;Q12962;Q16594}

6328 Pathogen[ P03363] interacts with 6 human  
partners: {Q92831;Q16514;Q12962;Q9Y4A5;O75478;Q16594}

6329 [Cluster 576]GO:0005913+C cellular\_component [name] cell-cell adherens junction [def] "An adherens junction which connects two cells to each other." [GOC]

6330 Pathogen[ Q2Q067] interacts with 9 human  
partners: {Q14160;Q9Y2D8;Q07157;O15105;Q14145;P35579;Q9BX66;Q92597;O60716}

6331 Pathogen[ P0C214] interacts with 10 human  
partners: {O60716;P22735;Q9Y2D8;Q14145;Q9BX66;Q92597;Q15124;O15105;Q14160;Q07157}

6332 Pathogen[ P03346] interacts with 13 human  
partners: {O60716;P35579;Q9Y2D8;Q15942;O15105;Q9BX66;P55196;Q8TEW0;Q92597;Q07157;Q14160;Q14145;P22735}

6333 Pathogen[ Q85601] interacts with 11 human  
partners: {P35579;Q9BX66;Q14145;O60716;Q15124;Q9Y2D8;Q15942;Q14160;Q07157;O15105;Q92597}

6334 Pathogen[ P14079] interacts with 14 human  
partners: {P35579;P22735;Q07157;Q15124;Q92597;Q14118;Q8TEW0;Q14145;Q702N8;Q9Y2D8;Q9BX66;O15105;O60716;Q15942}

6335 Pathogen[ P03383] interacts with 8 human  
partners: {O60716;Q14160;Q92597;Q07157;O15105;Q14145;P35579;Q9Y2D8}

6336 Pathogen[ P03410] interacts with 14 human  
partners: {Q702N8;O60716;P35579;Q15124;Q14160;Q15942;Q07157;Q14118;O15105;Q8TEW0;Q92597;Q14145;Q9BX66;P22735}

6337 Pathogen[ P14075] interacts with 8 human

6338 Pathogen[ P0C206] interacts with 14 human partners:{Q14160;Q07157;Q9Y2D8;P35579;O15105;Q92597;O60716;Q14145}

6339 Pathogen[ P03363] interacts with 10 human partners:{Q14145;Q9BX66;P35579;Q14160;Q92597;Q9Y2D8;O15105;Q07157;O60716;Q15942}

6340 [Cluster 577]GO:0030121+C cellular\_component [name] AP-1 adaptor complex [def] "A heterotetrameric AP-type membrane coat adaptor complex that consists of beta1, gamma, mu1 and sigma1 subunits and links clathrin to the membrane surface of a vesicle\_ vesicles with AP-1-containing coats are normally found primarily in the trans-Golgi network. In at least humans, the AP-1 complex can be heterogeneric due to the existence of multiple subunit isoforms encoded by different genes (gamma1 and gamma2, mu1A and mu1B, and sigma1A, sigma1B and sigma1C)." [GOC

6341 Pathogen[ Q2Q067] interacts with 3 human partners:{P61966;O75843;Q6ULP2}

6342 Pathogen[ P0C214] interacts with 3 human partners:{O75843;Q6ULP2;P61966}

6343 Pathogen[ P03346] interacts with 3 human partners:{P61966;O75843;Q6ULP2}

6344 Pathogen[ Q85601] interacts with 3 human partners:{O75843;Q6ULP2;P61966}

6345 Pathogen[ P14079] interacts with 3 human partners:{P61966;Q6ULP2;O75843}

6346 Pathogen[ P03383] interacts with 2 human partners:{O75843;Q6ULP2}

6347 Pathogen[ P03410] interacts with 4 human partners:{O75843;Q9UMZ2;Q6ULP2;P61966}

6348 Pathogen[ P14075] interacts with 2 human partners:{Q6ULP2;O75843}

6349 Pathogen[ P0C206] interacts with 3 human partners:{P61966;Q6ULP2;O75843}

6350 Pathogen[ P03363] interacts with 2 human partners:{Q6ULP2;O75843}

6351 [Cluster 578]GO:0030426+C cellular\_component [name] growth cone [def] "The migrating motile tip of a growing nerve cell axon or dendrite." [ISBN

6352 Pathogen[ Q2Q067] interacts with 13 human partners:{O00213;O14786;Q63HK5;Q92870;Q8IZP0;Q96EV8;P38935;Q13561;Q92796;Q9UN36;P80723;O15083;Q8IYI6}

6353 Pathogen[ P0C214] interacts with 17 human partners:{O00213;O15083;P32243;O14786;Q8IZP0;Q92796;Q63HK5;P38935;P35580;Q96EV8;P10909;Q7Z406;P80723;Q13561;Q8IYI6;Q9UN36;Q92870}

6354 Pathogen[ P03346] interacts with 18 human partners:{Q8IYI6;O00213;P38935;Q96A65;Q8IZP0;P80723;Q63HK5;Q9Y664;O15083;Q93045;Q92870;Q92796;Q96EV8;P54257;Q9UN36;P32243;O14786;Q13561}

6355 Pathogen[ Q85601] interacts with 18 human partners:{Q8IYI6;O00213;Q96A65;Q9UN36;P38935;O15083;O14786;P80723;Q96EV8;Q7Z406;Q9BVA0;Q92796;P32243;Q92870;P35580;Q8IZP0;Q63HK5;Q13561}

6356 Pathogen[ P14079] interacts with 22 human partners:{Q9Y664;P54257;Q8IZP0;O00213;P10909;Q15078;Q93045;Q9NZ72;Q13561;O15083;P32243;Q96A65;Q8IYI6;Q63HK5;P38935;Q96EV8;P80723;Q92796;Q9BVA0;Q9UN36;Q92870;P10636}

6357 Pathogen[ P03383] interacts with 12 human partners:{O00213;P32243;Q8IYI6;Q9UN36;Q96EV8;Q92870;P35580;P80723;P38935;Q92796;Q13561;O15083}

6358 Pathogen[ P03410] interacts with 23 human partners:{O14786;Q13561;O00213;P38935;Q9UN36;Q96A65;Q92796;Q8IZP0;P54257;P10636;P35580;P32243;Q9NZ72;P80723;Q63HK5;Q9Y664;Q96EV8;Q93045;Q8IYI6;Q9BVA0;P10909;O15083;Q92870}

6359 Pathogen[ P14075] interacts with 11 human partners:{O00213;O15083;P80723;P38935;Q13561;Q92870;Q9UN36;Q92796;Q96EV8;Q8IYI6;P32243}

6360 Pathogen[ P0C206] interacts with 21 human partners:{Q9BVA0;P38935;P10636;Q96A65;O14786;Q63HK5;O00213;Q93045;O15083;P32243;Q8IZP0;P80723;Q96EV8;Q9NZ72;P10909;Q92870;Q13561;Q8IYI6;Q9UN36;Q92796;P35580}

6361 Pathogen[ P03363] interacts with 18 human partners:{Q8IZP0;O14786;Q13561;O00213;Q8IYI6;Q96A65;Q9UN36;P32243;Q93045;Q9NZ72;Q92870;P54257;O15083;Q63HK5;P80723;Q9Y664;Q92796;P38935}

6362 [Cluster 579]GO:0043195+C cellular\_component [name] terminal button [def] "Terminal inflated portion of the axon, containing the specialized apparatus necessary to release neurotransmitters. The axon terminus is considered to be the whole region of thickening and the terminal button is a specialized region of it." [GOC

6363 Pathogen[ Q2Q067] interacts with 2 human partners:{P35080;Q16143}

6364 Pathogen[ P0C214] interacts with 2 human partners:{P35080;Q16143}

6365 Pathogen[ P03346] interacts with 2 human partners:{P35080;Q16143}

6366 Pathogen[ Q85601] interacts with 2 human partners:{P35080;Q16143}

6367 Pathogen[ P14079] interacts with 2 human partners:{Q16143;P35080}

6368 Pathogen[ P03383] interacts with 1 human partners:{P35080}

6369 Pathogen[ P03410] interacts with 2 human partners:{P35080;Q16143}

6370 Pathogen[ P14075] interacts with 1 human partners:{P35080}

6371 Pathogen[ P0C206] interacts with 2 human partners:{P35080;Q16143}

6372 Pathogen[ P03363] interacts with 3 human partners:{P35080;Q99719;Q16143}

6373 [Cluster 580]GO:0031430+C cellular\_component [name] M band [def] "The midline of aligned thick filaments in a sarcomere\_ location of specific proteins that link thick filaments. Depending on muscle type the M band consists of different numbers of M lines." [GOC

6374 Pathogen[ Q2Q067] interacts with 4 human partners:{Q01082;Q14192;Q15172;P06733}

6375 Pathogen[ P0C214] interacts with 5 human

6376 partners:{P16157;Q15172;Q01082;Q14192;P06733}  
Pathogen[ P03346] interacts with 8 human

6377 partners:{Q15172;A8MU46;Q9UHP9;P16157;P06733;Q01082;Q14192;Q14596}  
Pathogen[ Q85601] interacts with 6 human

6378 partners:{P16157;Q14596;Q15172;P06733;Q01082;Q14192}  
Pathogen[ P14079] interacts with 7 human

6379 partners:{Q14192;Q01082;Q9UHP9;Q15172;Q14596;P16157;P06733}  
Pathogen[ P03383] interacts with 2 human partners:{Q14192;P06733}

6380 partners:{Q9UHP9;Q15172;P16157;P06733;Q14596;A8MU46;Q01082;Q14192}  
Pathogen[ P03410] interacts with 8 human

6381 partners:{P14075} interacts with 3 human partners:{P06733;Q9UHP9;Q14192}

6382 partners:{P06733;Q01082;Q9UHP9;Q15172;Q14596;P16157;Q14192}  
Pathogen[ P0C206] interacts with 7 human

6383 partners:{Q9UHP9;P16157;Q01082;P06733;Q15172;A8MU46;Q14192}

6384 [Cluster 581]GO:0005681+C cellular\_component [name] spliceosomal complex [def] "Any of a series of ribonucleoprotein complexes that contain RNA and small nuclear ribonucleoproteins (snRNPs), and are formed sequentially during the splicing of a messenger RNA primary transcript to excise an intron." [GOC]

6385 Pathogen[ Q2Q067] interacts with 100 human  
partners:{Q9UNP9;O43290;Q13573;Q9BZZ5;P83876;P07910;Q9Y333;Q8WUQ7;P55769;Q9Y3F4;Q9H2H8;O95391;P52272;P61326;Q15459;O75940;O43447;Q01130;P62318;Q8WWY3;Q5VTL8;O43390;Q13435;Q96DI7;Q15696;O43172;P38919;O60506;Q9H307;Q8NAV1;Q13838;Q9ULR0;Q07955;Q9BWJ5;Q9UDW3;O94906;P31943;Q9BV90;P62314;P08621;P11142;P61978;Q12972;P38159;Q9UHI6;P62304;Q8IYB3;Q9Y6Y0;Q86V81;Q8IWZ8;Q96DF8;P26368;Q6P2Q9;Q6NZY4;Q9UBB9;Q8WXD5;P08579;P52597;P14678;Q9Y5S9;Q01081;O75533;Q8TEQ6;P57678;P09661;Q15029;P09012;Q9P013;Q9HCG8;Q9UQ35;Q7RTV0;Q9UNY4;O75934;Q15427;P62316;O43395;Q9NWZ8;Q6IEG0;O60508;P62306;Q9H840;Q15637;Q02040;P22626;Q16637;P11940;Q14331;P63162;P62308;Q9UMS4;O14893;Q99459;Q12874;Q8WYA6;Q00839;Q9HCS7;Q9BTA9;O43660;P62310;Q15428}

6386 Pathogen[ P0C214] interacts with 101 human  
partners:{Q6NZY4;Q16637;P26368;P62316;Q9HCS7;Q9ULR0;Q13573;Q14331;O43172;O75934;P38159;Q6IEG0;Q86V81;Q5VTL8;Q9UDW3;Q9Y5S9;O60508;P14678;Q15029;P62306;P57678;Q15637;Q6P2Q9;Q9BWJ5;Q8IWZ8;Q15428;Q9H307;O43395;P11940;Q8WXD5;P62308;P08579;Q8NAV1;O43390;O94906;Q9UMS4;Q07955;Q9H2H8;Q9Y333;P52272;Q9Y3C6;P62314;P07910;Q8IYB3;Q15696;P08621;Q9Y6Y0;P62310;P55769;Q99459;P61326;Q8TEQ6;P38919;Q9UNY4;Q96DF8;Q15427;P83876;P52597;Q7RTV0;P63162;Q9BZZ5;Q15459;Q9UHI6;P62318;Q01081;O75533;Q96DI7;Q9Y3F4;O75940;Q96BP3;Q12874;Q9H840;P31943;P62304;Q96I25;P09012;O43447;Q9P013;O60506;Q9HCG8;O14893;P09661;Q9UQ35;O43290;Q12972;Q8WYA6;Q9BTA9;Q13435;Q00839;Q9BV90;P22626;O95391;Q02040;Q9UNP9;Q9NWZ8;Q13838;O43660;Q9UBB9;Q01130;Q8WWY3;P11142}

6387 Pathogen[ P03346] interacts with 118 human  
partners:{Q9Y5S9;Q15427;P51991;Q12874;P61978;Q9ULR0;Q96DF8;O43172;O43290;Q9H2H8;Q9BV90;Q8IYB3;P09651;O43447;Q99633;Q9Y3C6;Q7RTV0;P62304;P83876;Q96I25;O95391;P08579;Q15637;Q9UMS4;O60506;Q9H307;Q8WXD5;P38919;P07910;Q96BP3;P11142;O75940;A8MWD9;P08621;Q9NX01;P11940;P31943;Q00839;O43390;Q9HCS7;P22626;O94906;Q9BUQ8;Q9Y333;Q07955;Q9P013;Q16637;P52756;P62318;Q9Y6Y0;Q86V81;O60508;Q8WYA6;P63162;Q5VTL8;O75934;O43660;O75643;Q9Y3F4;Q9HCG8;Q13435;Q9NWZ8;P62306;Q9UHI6;Q6NZY4;Q9BZZ5;P26368;P55769;Q01081;O75533;Q8TEQ6;P61326;Q13838;Q9UNY4;Q15459;Q9UDW3;Q9BWJ5;O75554;Q9UNP9;P42285;Q99459;Q8WWY3;Q6P2Q9;Q96DI7;Q14562;P09012;Q9UQ35;O95926;Q8IWZ8;P62314;P52272;Q01130;P14678;Q9BZJ0;P57678;Q8NAV1;O14893;Q02040;Q13573;P38159;Q15029;P62316;Q15696;Q32P51;Q8WUQ7;P52597;Q12972;P62308;P62310;Q15393;P09661;Q9BRX9;Q9H840;Q15428;Q6IEG0;Q9BTA9;Q14331;O43395}

6388 Pathogen[ Q85601] interacts with 90 human  
partners:{Q15637;P61978;Q9ULR0;Q9HCS7;Q9H2H8;O43390;Q8IYB3;Q96BP3;Q7RTV0;P62304;Q01130;Q9H307;O60506;Q14331;O95391;Q13573;Q15459;Q9UMS4;P61326;P22626;Q9BTA9;Q9BZZ5;Q8WYA6;Q5VTL8;P08621;Q9P013;Q86V81;O75940;O75934;P62316;O94906;Q07955;P55769;Q9UBB9;Q96DI7;P38919;P14678;P11940;Q9Y6Y0;P62310;Q13435;P62314;P62306;O60508;Q8TEQ6;P63162;Q13838;P62318;Q12972;Q15029;Q9NWZ8;Q8NAV1;P52597;P11142;Q9UHI6;Q6NZY4;Q9Y3C6;Q99459;Q01081;Q9UQ35;Q9Y3F4;Q9UDW3;O43395;O43290;Q8WWY3;Q6P2Q9;P83876;O43447;Q00839;Q9NX01;O14893;O43660;P62308;P38159;Q15696;P26368;Q9Y333;Q9HCG8;Q16637;P31943;O43172;Q9UNY4;P09661;Q96DI7;Q12874;Q9Y5S9;Q9BWJ5;Q8WXD5;Q9H840;Q6IEG0}

6389 Pathogen[ P14079] interacts with 97 human  
partners:{Q15637;Q99459;Q9Y333;O43447;P57678;Q96I25;P11142;O75934;Q8TEQ6;O94906;O60508;Q99633;O14893;O75533;Q9UNY4;Q96DF8;Q12874;Q9BTA9;Q9Y5S9;Q6NZY4;Q9P013;P26368;P83876;Q6IEG0;P07910;Q13838;Q13573;Q9H840;Q9Y3F4;Q15029;Q6P2Q9;Q9UHI6;P62314;Q9HCS7;Q15427;Q9H307;Q00839;O43290;Q8WWY3;Q15459;P62306;P14678;Q8IYB3;Q9ULR0;Q9NWZ8;O75940;Q9BWJ5;P61326;Q16637;O95926;Q9UMS4;Q02040;P11940;Q7RTV0;P08621;Q9H2H8;Q9UQ35;Q86V81;P62308;O60506;Q15696;Q9UBB9;Q9Y6Y0;P09012;P62304;Q15428;Q9NX01;P62316;P62310;Q07955;Q8WUQ7;Q12972;Q8NAV1;P61978;P31943;Q01081;Q9HCG8;Q14331;P55769;P52597;O43390;P09661;O43172;P52756;Q9BZZ5;Q9UDW3;P62318;Q8WYA6;O43395;Q96BP3;Q8WXD5;O95391;P22626;Q5VTL8;Q8IWZ8;P38159;P63162}

6390 Pathogen[ P03383] interacts with 88 human  
partners:{Q13573;Q07955;P09661;O43390;P83876;Q02040;Q9H840;Q15459;P62318;Q9UNP9;Q9BTA9;O43290;Q5VTL8;P22626;Q15029;O43172;Q13838;Q9HCS7;Q9ULR0;Q9Y5S9;P62316;Q96BP3;Q9H2H8;Q12972;P62304;P61326;Q9UHI6;Q8WXD5;Q6P2Q9;Q9BZZ5;P38919;Q12874;P26368;P63162;Q9P013;P61978;Q14331;P11940;P31943;Q99459;Q86V81;Q13435;Q6NZY4;Q8NAV1;O94906;P38159;O43447;O43395;Q8IYB3;Q16637;Q9Y6Y0;P62314;P62310;Q8TEQ6;O14893;Q01130;P14678;Q9Y333;Q01081;Q9Y3F4;P11142;Q6IEG0;Q8WUQ7;P09012;Q9H307;Q8WWY3;Q9UQ35;P57678;P55769;Q96DF8;P62308;Q9U

- BB9;Q9NWZ8;Q15637;Q9HCG8;Q8WYA6;Q00839;P08621;Q9UNY4;P52597;O95391;O75934;Q9UMS4;Q7RTV0;O75940;Q9BWJ5;P62306;Q96DI7}
- 6391 Pathogen[ P03410] interacts with 106 human  
partners: {Q8WUQ7;P83876;Q9BZZ5;Q13838;A8MWD9;O75934;Q00839;Q9ULR0;Q15427;Q9BWJ5;Q9UDW3;Q8WXD5;Q01081;Q9UNY4;O14893;P26368;P61326;P62304;Q9NX01;O60508;Q8WWY3;Q15637;Q15029;Q15696;P61978;Q9H840;P22626;P11940;P62306;Q6IEG0;P62310;Q6NZY4;Q15393;Q9Y5S9;Q96BP3;Q8TEQ6;Q9Y333;P55769;Q9Y6Y0;P11142;Q99633;Q9P013;P62308;P14678;P62316;Q9UBB9;Q9Y3F4;Q8NAV1;P09012;Q9UQ35;P08621;Q8WYA6;Q9H2H8;Q9HCS7;O94906;P07910;P08579;Q99459;O43172;Q07955;P52597;Q16637;P31943;P62314;O43660;O43395;Q15428;P09661;Q15459;O75533;Q86V81;P52272;Q8IYB3;P38919;Q01130;Q9BTA9;Q7RTV0;P57678;Q9UMS4;Q9Y3C6;Q12972;Q9UNP9;O60506;Q96DF8;Q6P2Q9;Q9BV90;O43290;Q5VTL8;O75940;Q12874;P38159;Q8IYWZ8;Q9UHI6;O43447;P63162;Q96I25;O95391;Q13573;Q13435;O43390;Q9H307;Q14331;Q9HCG8;Q9NWZ8;Q02040;P62318}
- 6392 Pathogen[ P14075] interacts with 88 human  
partners: {Q9H307;Q9BZZ5;P22626;Q8TEQ6;P62304;P62316;P11142;Q9Y3F4;Q8WXD5;Q13573;P08621;Q86V81;O43395;Q9UNY4;P61326;P57678;O95391;Q15459;P38159;Q15428;Q01130;Q9UNP9;Q9H840;O43172;P31943;P63162;Q02040;P62306;P62308;O43390;Q9UQ35;O94906;Q9HCG8;Q9ULR0;Q15029;Q16637;O75940;Q99459;Q96DI7;P11940;Q00839;Q9UHI6;Q9Y6Y0;Q13435;P62318;Q12874;P55769;Q96DF8;Q6NZY4;Q9UBB9;Q15637;Q9BTA9;Q6P2Q9;P26368;Q01081;Q9UMS4;P09661;Q8IYB3;Q9BWJ5;Q9Y333;P61978;Q8NAV1;Q9NWZ8;P09012;P14678;O43447;Q9HCS7;Q8WYA6;Q9Y5S9;P83876;O75934;Q12972;P52597;O14893;Q9H2H8;Q14331;P62314;P38919;Q8WUQ7;Q6IEG0;O43290;Q13838;Q9P013;Q5VTL8;Q8WWY3;P62310;Q07955;Q7RTV0}
- 6393 Pathogen[ P0C206] interacts with 99 human  
partners: {Q6IEG0;Q9UNP9;Q9BV90;Q9UMS4;P83876;Q8NAV1;Q9Y3F4;P14678;O60508;O75934;Q07955;P26368;Q9H840;P61326;Q01081;Q15696;P55769;Q8WXD5;Q9BZZ5;Q9UNY4;Q96BP3;P62304;Q8IYB3;P09012;O75533;Q8TEQ6;P61978;P63162;O75940;Q9H307;Q15637;Q12874;P62314;P62316;O43390;P22626;Q02040;Q9UBB9;Q8WUQ7;Q8WYA6;O43290;Q9Y6Y0;Q9Y333;Q13435;Q9UQ35;Q96DF8;P38159;O60506;Q13573;Q9BWJ5;Q9Y3C6;Q13838;P52597;Q9P013;O43395;Q6P2Q9;P62318;Q6NZY4;Q7RTV0;O14893;Q8WWY3;Q9BTA9;Q8IYWZ8;Q9NX01;P62306;Q9ULR0;O43172;Q99459;O43447;Q9HCG8;O94906;Q9UHI6;Q9H2H8;Q14331;Q12972;Q96DI7;P09661;O43660;P38919;Q16637;P62308;O95391;P08621;Q01130;P62310;Q00839;Q9HCS7;Q9UDW3;Q15459;P11940;P11142;P31943;Q5VTL8;Q15428;Q9Y5S9;Q86V81;Q9NWZ8;Q15029;P57678}
- 6394 Pathogen[ P03363] interacts with 123 human  
partners: {Q9Y6Y0;O75940;O95926;P62314;O43395;Q9BZZ5;A8MWD9;Q9Y3F4;P63162;P38919;Q96DF8;O75643;Q12972;Q13435;O95391;P52597;Q9NW13;Q9UHI6;Q6NZY4;P09012;O60306;Q9BV90;Q14331;P51991;Q9HCS7;Q15393;Q9NWZ8;O75533;Q96BP3;P09651;Q9NX01;P08579;Q15459;Q9Y3C6;Q7RTV0;Q96125;P62318;Q8WYA6;Q9H307;Q9BRX9;Q15427;P62304;Q01130;Q6P2Q9;P11940;Q8WWY3;O14893;Q32P51;Q92620;O43447;Q9UNY4;P61326;Q8IYWZ8;P62306;P52272;Q15029;P57678;Q9BWJ5;Q9Y333;Q14562;P62316;Q8WUQ7;Q8IYB3;Q9UDW3;P38159;P26368;Q12874;Q9UPN6;P31943;O43172;Q9ULR0;Q15637;Q96LT9;Q8WXD5;Q86V81;P07910;Q8NAV1;O75934;O43290;Q13573;Q13838;Q02040;P08621;Q9H840;P22626;P83876;P62310;Q9UKM9;Q07955;O43660;Q5VTL8;O60506;Q01081;P61978;O94906;Q9HCG8;Q15428;P55769;Q8TEQ6;Q00839;P62308;Q9P013;Q16637;Q9UMS4;Q99633;O43390;P14678;Q16560;P09661;Q99459;Q9UQ35;Q9BTA9;Q15696;Q9Y5S9;Q9H2H8;Q9UNP9;P11142;Q9BZJ0;Q6IEG0;Q96DI7;O60508;P42285;P52756}
- 6395 [Cluster 582]GO:0005669+C cellular\_component [name] transcription factor TFIID complex [def] "A complex composed of TATA binding protein (TBP) and TBP associated factors (TAFs)\_ the total mass is typically about 800 kDa. Most of the TAFs are conserved across species. In TATA-containing promoters for RNA polymerase II (Pol II), TFIID is believed to recognize at least two distinct elements, the TATA element and a downstream promoter element. TFIID is also involved in recognition of TATA-less Pol II promoters. Binding of TFIID to DNA is necessary but not sufficient for transcription initiation from most RNA polymerase II promoters." [GOC
- 6396 Pathogen[ Q2Q067] interacts with 18 human  
partners: {Q92750;P20226;Q16594;Q15542;Q12962;Q6P1X5;Q15543;P49848;Q15544;O00268;Q16514;Q7Z7C8;Q8IZX4;Q15545;Q9HBM6;P21675;O60869;Q5VWG9}
- 6397 Pathogen[ P0C214] interacts with 19 human  
partners: {O00268;P21675;Q92750;Q7Z7C8;Q12962;Q15545;Q16594;Q15542;Q5VWG9;Q9HBM6;Q15544;P49848;Q6P1X5;Q16514;P20226;Q8IZX4;Q5H9L4;Q15543;O60869}
- 6398 Pathogen[ P03346] interacts with 19 human  
partners: {Q15542;Q7Z7C8;O00268;Q92750;P20226;P49848;Q9HBM6;Q6P1X5;Q16514;Q12962;P21675;Q5H9L4;Q8IZX4;O60869;Q15545;Q5VWG9;Q15544;Q16594;Q15543}
- 6399 Pathogen[ Q85601] interacts with 19 human  
partners: {Q15542;Q7Z7C8;Q5H9L4;Q15545;O00268;Q16594;Q8IZX4;Q5VWG9;Q9HBM6;P49848;Q6P1X5;Q16514;Q92750;P21675;Q12962;Q15543;O60869;Q15544;P20226}
- 6400 Pathogen[ P14079] interacts with 16 human  
partners: {Q8IZX4;Q5H9L4;Q16594;O60869;Q6P1X5;Q15543;Q12962;P49848;Q92750;Q16514;Q15542;Q5VWG9;P21675;O00268;Q9HBM6;Q15545}
- 6401 Pathogen[ P03383] interacts with 18 human  
partners: {Q15544;Q5H9L4;Q15542;Q9HBM6;Q8IZX4;Q5VWG9;P20226;Q16594;P49848;O00268;Q16514;Q6P1X5;Q92750;P21675;Q12962;O60869;Q15545;Q15543}
- 6402 Pathogen[ P03410] interacts with 18 human  
partners: {Q8IZX4;O00268;Q5VWG9;Q15543;Q92750;Q12962;P21675;P20226;Q5H9L4;Q9HBM6;Q16514;P49848;Q6P1X5;Q16594;Q15544;O60869;Q15542;Q15545}
- 6403 Pathogen[ P14075] interacts with 19 human  
partners: {Q12962;P21675;Q15542;Q6P1X5;Q7Z7C8;Q15544;P20226;Q16594;Q92750;Q5VWG9;P49848;Q16514;Q15545;Q5H9L4;O00268;O60869;Q8IZX4;Q15543;Q9HBM6}
- 6404 Pathogen[ P0C206] interacts with 19 human

6405 partners:{Q15545;Q16514;Q15543;P49848;P20226;Q15544;O00268;Q8IZX4;Q92750;Q5H9L4;Q5VWG9;O60869;Q15542;Q6P1X5;Q9HBM6;Q7Z7C8;Q12962;P21675;Q16594}  
Pathogen[ P03363] interacts with 19 human

6406 partners:{Q8IZX4;P49848;Q16514;Q15545;O00268;Q12962;Q15544;Q7Z7C8;Q15542;Q92750;O60869;P21675;Q9HBM6;P20226;Q15543;Q5H9L4;Q6P1X5;Q5VWG9;Q16594}  
[Cluster 583]GO:0009434+C cellular\_component [name] microtubule-based flagellum [def] "A long, whiplike protrusion from the surface of a eukaryotic cell, whose undulations drive the cell through a liquid medium\_ similar in structure to a cilium. The flagellum is based on a 9+2 arrangement of microtubules." [GOC]

6407 Pathogen[ Q2Q067] interacts with 8 human  
partners:{Q9Y615;Q9BZW7;Q96LB3;O43236;Q96MC4;O14556;P07864;O75969}

6408 Pathogen[ P0C214] interacts with 8 human  
partners:{Q9Y615;Q96MC4;P07864;O14556;O75969;Q9BZW7;Q96LB3;O43236}

6409 Pathogen[ P03346] interacts with 10 human  
partners:{Q9NQC8;O75969;O43236;O14556;Q96MC4;Q6P597;Q9Y4P9;Q96LB3;Q9BZW7;Q9Y615}

6410 Pathogen[ Q85601] interacts with 9 human  
partners:{Q96LB3;Q96MC4;O75969;P07864;Q6P597;O14556;Q9Y615;O43236;Q9BZW7}

6411 Pathogen[ P14079] interacts with 15 human  
partners:{Q8WYA0;Q9Y4P9;Q5JQC9;Q96MC4;Q9Y615;O75952;P07864;Q9Y366;Q8NA54;Q9NQC8;Q96LB3;O75969;O43236;Q6P597;Q9BZW7}

6412 Pathogen[ P03383] interacts with 9 human  
partners:{O43236;P07864;Q9BZW7;O14556;Q96LB3;Q9Y4P9;O75969;Q9Y615;Q96MC4}

6413 Pathogen[ P03410] interacts with 17 human  
partners:{Q8NA54;O14556;Q9Y4P9;Q9Y615;Q5JQC9;O75969;Q9Y366;Q6P597;O75952;Q96MC4;O43236;Q9BYC2;Q8WYA0;Q9BZW7;P07864;Q9NQC8;Q96LB3}

6414 Pathogen[ P14075] interacts with 8 human  
partners:{O43236;O75969;Q96LB3;P07864;Q9Y4P9;Q96MC4;Q9BZW7;O14556}

6415 Pathogen[ P0C206] interacts with 15 human  
partners:{Q96MC4;Q9NQC8;O75952;P07864;Q5JQC9;Q6P597;Q9BZW7;Q8WYA0;O43236;Q9Y4P9;O14556;Q8NA54;O75969;Q96LB3;Q9Y615}

6416 Pathogen[ P03363] interacts with 9 human  
partners:{Q9Y4P9;Q96MC4;Q9Y615;O75969;Q9BZW7;O14556;Q96LB3;O43236;Q9NQC8}

6417 [Cluster 584]GO:0005747+C cellular\_component [name] mitochondrial respiratory chain complex I [def] "A protein complex located in the mitochondrial inner membrane that forms part of the mitochondrial respiratory chain. It contains about 25 different polypeptide subunits, including NADH dehydrogenase (ubiquinone), flavin mononucleotide and several different iron-sulfur clusters containing non-heme iron. The iron undergoes oxidation-reduction between Fe(II) and Fe(III), and catalyzes proton translocation linked to the oxidation of NADH by ubiquinone." [GOC]

6418 Pathogen[ Q2Q067] interacts with 10 human  
partners:{O43920;P56181;O75489;O96000;O95178;O43678;O75251;O75306;Q9P0J0;Q9Y375}

6419 Pathogen[ P0C214] interacts with 20 human  
partners:{Q16795;O75306;O43678;P56556;P28331;O43920;O95299;P17568;Q9Y375;Q16718;O14561;O95298;Q9P0J0;O96000;O95182;O75489;O75251;Q9UI09;P56181;O95178}

6420 Pathogen[ P03346] interacts with 10 human  
partners:{P56181;O75489;O43678;O95178;O43920;Q9Y375;O75251;O96000;O75306;Q9P0J0}

6421 Pathogen[ Q85601] interacts with 7 human  
partners:{Q9P0J0;O75306;O43678;P56181;O96000;Q9Y375;O43920}

6422 Pathogen[ P14079] interacts with 33 human  
partners:{P56181;O43674;O43677;O43181;O95169;P56556;Q9Y375;O95139;O96000;O95167;O75306;P17568;Q86Y39;O95182;O43676;O43678;P51970;O95178;O75251;O14561;Q9UI09;O95299;Q9P0J0;O75489;P03923;Q16718;P03897;O43920;O15239;O00483;P03901;P03886;O95298}

6423 Pathogen[ P03383] interacts with 10 human  
partners:{O75251;O96000;O43678;O43920;O75489;O75306;O95178;Q9Y375;Q9P0J0;P56181}

6424 Pathogen[ P03410] interacts with 36 human  
partners:{O95168;O43674;P56556;P17568;O95178;O75380;O43678;O75251;O95299;P51970;O43920;Q9UI09;O96000;O95167;O15239;Q9Y6M9;P03886;O00483;O95298;O75438;P56181;O14561;O75489;Q86Y39;Q9Y375;P03897;O43677;O95169;O43181;Q16718;O75306;O43676;P03901;Q9P0J0;P03923;O95182}

6425 Pathogen[ P14075] interacts with 16 human  
partners:{O43674;P56181;Q9Y375;O96000;O95182;O43677;O43920;O75306;O14561;O95298;O43678;O75251;O75489;O95178;Q9P0J0;O43676}

6426 Pathogen[ P0C206] interacts with 18 human  
partners:{P56181;O75251;O43920;O75306;O95182;Q9UI09;O95298;O14561;O00483;P17568;O95178;Q9Y375;Q9P0J0;O43678;O75489;O96000;O43674;P56556}

6427 Pathogen[ P03363] interacts with 4 human partners:{Q9Y375;Q9P0J0;O96000;P56181}

6428 [Cluster 585]GO:0005903+C cellular\_component [name] brush border [def] "Dense covering of microvilli on the apical surface of epithelial cells in tissues such as the intestine, kidney, and choroid plexus\_ the microvilli aid absorption by increasing the surface area of the cell." [GOC]

6429 Pathogen[ Q2Q067] interacts with 1 human partners:{Q92681}

6430 Pathogen[ P0C214] interacts with 3 human partners:{O00159;P11168;Q92681}

6431 Pathogen[ P03346] interacts with 4 human partners:{Q92681;Q86UT5;O14908;O00299}

6432 Pathogen[ Q85601] interacts with 3 human partners:{P11168;O00159;Q92681}

6433 Pathogen[ P14079] interacts with 3 human partners:{Q92681;Q86UT5;O14908}

6434 Pathogen[ P03383] interacts with 2 human partners:{Q92681;P11168}

6435 Pathogen[ P03410] interacts with 5 human partners:{Q86UT5;P11168;O00159;O14908;Q92681}

6436 Pathogen[ P14075] interacts with 2 human partners:{Q92681;P11168}

6437 Pathogen[ P0C206] interacts with 5 human partners:{Q92681;Q86UT5;P11168;O00159;O14908}

6438 Pathogen[ P03363] interacts with 3 human partners:{O14908;Q86UT5;Q92681}

6439 [Cluster 586]GO:0005665+C cellular\_component [name] DNA-directed RNA polymerase II, core complex [def] "RNA polymerase II, one of three nuclear DNA-directed RNA polymerases found in all eukaryotes, is a multisubunit complex\_ typically it produces mRNAs, snRNAs, and some of the snRNAs. Two large subunits comprise the most conserved portion including the catalytic site and share similarity with other eukaryotic and bacterial multisubunit RNA polymerases. The largest subunit of RNA polymerase II contains an essential carboxyl-terminal domain (CTD) composed of a variable number of heptapeptide repeats (YSPTSPS). The remainder of the complex is composed of smaller subunits (generally ten or more), some of which are also found in RNA polymerases I and III. Although the core is competent to mediate ribonucleic acid synthesis, it requires additional factors to select the appropriate template." [GOC

6440 Pathogen[ Q2Q067] interacts with 11 human partners:{P52434;Q9H5H4;P19388;P52435;P30876;P19387;P61218;P62487;P62875;P24928;O94763}

6441 Pathogen[ P0C214] interacts with 11 human partners:{P30876;P52435;P61218;P62487;Q9H5H4;P62875;P24928;P52434;P19387;P19388;O94763}

6442 Pathogen[ P03346] interacts with 12 human partners:{P52434;O94763;P61218;Q9H5H4;P62487;P19388;P52435;P36954;P30876;P24928;P62875;P19387}

6443 Pathogen[ Q85601] interacts with 12 human partners:{P36954;P61218;P62487;P19388;P52435;Q9H5H4;P19387;O94763;P24928;P30876;P52434;P62875}

6444 Pathogen[ P14079] interacts with 13 human partners:{P62875;P19387;P62487;P52434;O15514;P30876;P61218;O94763;P19388;P52435;P24928;P36954;Q9H5H4}

6445 Pathogen[ P03383] interacts with 11 human partners:{Q9H5H4;P52434;P61218;P62487;O94763;P19387;P24928;P62875;P52435;P19388;P30876}

6446 Pathogen[ P03410] interacts with 13 human partners:{O94763;P19387;P36954;P24928;P30876;O15514;P52435;P62875;P61218;P52434;P62487;P19388;Q9H5H4}

6447 Pathogen[ P14075] interacts with 10 human partners:{P30876;P19388;P61218;P19387;O94763;P62487;P24928;P62875;P52434;P52435}

6448 Pathogen[ P0C206] interacts with 13 human partners:{Q9H5H4;P62875;P36954;P19388;P61218;O15514;P19387;P52435;P62487;P24928;P52434;O94763;P30876}

6449 Pathogen[ P03363] interacts with 10 human partners:{P19388;P30876;P19387;P61218;P24928;Q9H5H4;O94763;P62487;P52435;P52434}

6450 [Cluster 587]GO:0005851+C cellular\_component [name] eukaryotic translation initiation factor 2B complex [def] "A multisubunit guanine nucleotide exchange factor which catalyzes the exchange of GDP bound to initiation factor eIF2 for GTP, generating active eIF2-GTP. In humans, it is composed of five subunits, alpha, beta, delta, gamma and epsilon." [PMID

6451 Pathogen[ Q2Q067] interacts with 6 human partners:{P05198;P49770;Q9UI10;Q14232;Q9NR50;Q13144}

6452 Pathogen[ P0C214] interacts with 6 human partners:{Q9UI10;P49770;Q14232;Q9NR50;Q13144;P05198}

6453 Pathogen[ P03346] interacts with 6 human partners:{Q14232;P49770;Q13144;Q9NR50;Q9UI10;P05198}

6454 Pathogen[ Q85601] interacts with 6 human partners:{Q9NR50;Q13144;P49770;P05198;Q14232;Q9UI10}

6455 Pathogen[ P14079] interacts with 5 human partners:{Q9UI10;P05198;Q13144;Q9NR50;Q14232}

6456 Pathogen[ P03383] interacts with 6 human partners:{Q9UI10;Q13144;Q9NR50;P05198;P49770;Q14232}

6457 Pathogen[ P03410] interacts with 6 human partners:{Q9NR50;Q14232;P49770;Q9UI10;Q13144;P05198}

6458 Pathogen[ P14075] interacts with 6 human partners:{Q9UI10;P05198;Q14232;P49770;Q9NR50;Q13144}

6459 Pathogen[ P0C206] interacts with 6 human partners:{Q14232;Q9NR50;Q13144;P49770;P05198;Q9UI10}

6460 Pathogen[ P03363] interacts with 5 human partners:{Q9UI10;P05198;Q9NR50;P49770;Q13144}

6461 [Cluster 588]GO:0070860+C cellular\_component [name] RNA polymerase I core factor complex [def] "A RNA polymerase I-specific transcription factor complex that is required for the transcription of rDNA by RNA polymerase I. In yeast the complex consists of Rrn6p, Rrn7p, and Rrn11p." [PMID

6462 Pathogen[ Q2Q067] interacts with 1 human partners:{Q53T94}

6463 Pathogen[ P0C214] interacts with 1 human partners:{Q53T94}

6464 Pathogen[ P03346] interacts with 1 human partners:{Q53T94}

6465 Pathogen[ Q85601] interacts with 1 human partners:{Q53T94}

6466 Pathogen[ P14079] interacts with 1 human partners:{Q53T94}

6467 Pathogen[ P03383] interacts with 1 human partners:{Q53T94}

6468 Pathogen[ P03410] interacts with 1 human partners:{Q53T94}

6469 Pathogen[ P14075] interacts with 1 human partners:{Q53T94}

6470 Pathogen[ P0C206] interacts with 1 human partners:{Q53T94}

6471 Pathogen[ P03363] interacts with 1 human partners:{Q53T94}

6472 [Cluster 589]GO:0031314+C cellular\_component [name] extrinsic to mitochondrial inner membrane [def] "Loosely bound to one surface of the mitochondrial inner membrane, but not integrated into the hydrophobic region." [GOC

6473 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96BW9}

6474 Pathogen[ P0C214] interacts with 1 human partners:{Q96BW9}

6475 Pathogen[ P03346] interacts with 1 human partners:{Q96BW9}

6476 Pathogen[ Q85601] interacts with 1 human partners:{Q96BW9}

6477 Pathogen[ P14079] interacts with 2 human partners:{Q96BW9;Q8NC60}

6478 Pathogen[ P03383] interacts with 1 human partners:{Q96BW9}

6479 Pathogen[ P03410] interacts with 2 human partners:{Q8NC60;Q96BW9}

6480 Pathogen[ P14075] interacts with 1 human partners:{Q96BW9}

6481 Pathogen[ P0C206] interacts with 1 human partners:{Q96BW9}

6482 Pathogen[ P03363] interacts with 1 human partners:{Q96BW9}

6483 [Cluster 590]GO:0005861+C cellular\_component [name] troponin complex [def] "A complex of accessory proteins (typically troponin T, troponin I and troponin C) found associated with actin in muscle thin filaments\_ involved in calcium regulation of muscle contraction." [ISBN

6484 Pathogen[ Q2Q067] interacts with 1 human partners:{P48788}

6485 Pathogen[ P0C214] interacts with 2 human partners:{P48788;P19429}

6486 Pathogen[ P03346] interacts with 2 human partners:{P63316;P48788}

6487 Pathogen[ Q85601] interacts with 1 human partners:{P48788}

6488 Pathogen[ P14079] interacts with 4 human partners:{P13805;P19429;P19237;P48788}

6489 Pathogen[ P03383] interacts with 1 human partners:{P48788}

6490 Pathogen[ P03410] interacts with 4 human partners:{P19429;P48788;P63316;P13805}

6491 Pathogen[ P14075] interacts with 1 human partners:{P48788}

6492 Pathogen[ P0C206] interacts with 2 human partners:{P19429;P48788}

6493 Pathogen[ P03363] interacts with 2 human partners:{P48788;P19429}

6494 [Cluster 591]GO:0055087+C cellular\_component [name] Ski complex [def] "A protein complex that regulates RNA degradation by the exosome complex. In Saccharomyces the complex has a heterotetrameric stoichiometry consisting of one copy each of Ski2p and Ski3 and two copies of Ski8p." [GOC

6495 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9GZS3;Q6PGP7}

6496 Pathogen[ P0C214] interacts with 2 human partners:{Q6PGP7;Q9GZS3}

6497 Pathogen[ P03346] interacts with 2 human partners:{Q6PGP7;Q9GZS3}

6498 Pathogen[ Q85601] interacts with 2 human partners:{Q9GZS3;Q6PGP7}

6499 Pathogen[ P14079] interacts with 2 human partners:{Q6PGP7;Q9GZS3}

6500 Pathogen[ P03383] interacts with 2 human partners:{Q6PGP7;Q9GZS3}

6501 Pathogen[ P03410] interacts with 2 human partners:{Q6PGP7;Q9GZS3}

6502 Pathogen[ P14075] interacts with 2 human partners:{Q6PGP7;Q9GZS3}

6503 Pathogen[ P0C206] interacts with 2 human partners:{Q6PGP7;Q9GZS3}

6504 Pathogen[ P03363] interacts with 2 human partners:{Q9GZS3;Q6PGP7}

6505 [Cluster 592]GO:0030992+C cellular\_component [name] intraflagellar transport particle B [def] "The larger subcomplex of the intraflagellar transport particle\_ characterized complexes have molecular weights around 550 kDa." [GOC

6506 Pathogen[ Q2Q067] interacts with 2 human partners:{Q8IY31;Q96LB3}

6507 Pathogen[ P0C214] interacts with 2 human partners:{Q8IY31;Q96LB3}

6508 Pathogen[ P03346] interacts with 2 human partners:{Q8IY31;Q96LB3}

6509 Pathogen[ Q85601] interacts with 2 human partners:{Q96LB3;Q8IY31}

6510 Pathogen[ P14079] interacts with 4 human partners:{Q8WYA0;Q8IY31;Q9Y366;Q96LB3}

6511 Pathogen[ P03383] interacts with 2 human partners:{Q8IY31;Q96LB3}

6512 Pathogen[ P03410] interacts with 4 human partners:{Q9Y366;Q8IY31;Q8WYA0;Q96LB3}

6513 Pathogen[ P14075] interacts with 2 human partners:{Q8IY31;Q96LB3}

6514 Pathogen[ P0C206] interacts with 3 human partners:{Q8IY31;Q8WYA0;Q96LB3}

6515 Pathogen[ P03363] interacts with 2 human partners:{Q8IY31;Q96LB3}

6516 [Cluster 593]GO:0005827+C cellular\_component [name] polar microtubule [def] "Any of the spindle microtubules that come from each pole and overlap at the spindle midzone. This interdigitating structure consisting of antiparallel microtubules is responsible for pushing the poles of the spindle apart." [ISBN

6517 Pathogen[ Q2Q067] interacts with 3 human partners:{Q13618;P23258;Q96CW5}

6518 Pathogen[ P0C214] interacts with 4 human partners:{Q9UJP4;P23258;Q13618;Q96CW5}

6519 Pathogen[ P03346] interacts with 4 human partners:{P23258;Q13618;Q96CW5;Q9UJP4}

6520 Pathogen[ Q85601] interacts with 4 human partners:{Q96CW5;Q9UJP4;P23258;Q13618}

6521 Pathogen[ P14079] interacts with 4 human partners:{Q13618;P23258;Q9UJP4;Q96CW5}

6522 Pathogen[ P03383] interacts with 2 human partners:{Q96CW5;Q13618}

6523 Pathogen[ P03410] interacts with 4 human partners:{Q13618;P23258;Q9UJP4;Q96CW5}

6524 Pathogen[ P14075] interacts with 2 human partners:{Q13618;Q96CW5}

6525 Pathogen[ P0C206] interacts with 4 human partners:{Q96CW5;Q9UJP4;Q13618;P23258}

6526 Pathogen[ P03363] interacts with 4 human partners:{Q13618;Q9UJP4;P23258;Q96CW5}

6527 [Cluster 594]GO:0030667+C cellular\_component [name] secretory granule membrane [def] "The lipid bilayer surrounding a secretory granule." [GOC  
6528 Pathogen[ Q2Q067] interacts with 2 human partners:{O60645;Q05084}  
6529 Pathogen[ P0C214] interacts with 2 human partners:{Q05084;O60645}  
6530 Pathogen[ P03346] interacts with 4 human partners:{Q05084;P26038;P49755;O60645}  
6531 Pathogen[ Q85601] interacts with 2 human partners:{O60645;Q05084}  
6532 Pathogen[ P14079] interacts with 5 human  
partners:{Q05084;P26038;O60645;P49755;Q0VAF6}  
6533 Pathogen[ P03383] interacts with 2 human partners:{Q05084;O60645}  
6534 Pathogen[ P03410] interacts with 4 human partners:{O60645;Q05084;Q0VAF6;P26038}  
6535 Pathogen[ P14075] interacts with 2 human partners:{O60645;Q05084}  
6536 Pathogen[ P0C206] interacts with 3 human partners:{O60645;P49755;Q05084}  
6537 Pathogen[ P03363] interacts with 2 human partners:{O60645;Q05084}  
6538 [Cluster 595]GO:0000145+C cellular\_component [name] exocyst [def] "A protein complex  
peripherally associated with the plasma membrane that determines where vesicles dock and  
fuse. At least eight complex components are conserved between yeast and mammals." [PMID  
6539 Pathogen[ Q2Q067] interacts with 4 human partners:{Q96KP1;Q8NFW9;Q9UPT5;Q8IYI6}  
6540 Pathogen[ P0C214] interacts with 3 human partners:{Q8NFW9;Q9UPT5;Q8IYI6}  
6541 Pathogen[ P03346] interacts with 6 human  
partners:{Q8IYI6;Q9UPT5;Q96A65;Q15019;Q8NFW9;Q96KP1}  
6542 Pathogen[ Q85601] interacts with 5 human  
partners:{Q8IYI6;Q8NFW9;Q9UPT5;Q96A65;Q96KP1}  
6543 Pathogen[ P14079] interacts with 9 human  
partners:{Q86VI1;Q8TAG9;Q9UPT5;Q96KP1;Q8NFW9;Q9NV70;Q96A65;Q8IYI6;Q9Y2D4}  
6544 Pathogen[ P03383] interacts with 3 human partners:{Q8IYI6;Q96KP1;Q9UPT5}  
6545 Pathogen[ P03410] interacts with 9 human  
partners:{Q9UPT5;Q8NFW9;Q8TAG9;Q96A65;Q96KP1;Q9Y2D4;Q9NV70;Q86VI1;Q8IYI6}  
6546 Pathogen[ P14075] interacts with 3 human partners:{Q96KP1;Q8IYI6;Q9UPT5}  
6547 Pathogen[ P0C206] interacts with 9 human  
partners:{Q15019;Q8NFW9;Q96KP1;Q96A65;Q9UPT5;Q86VI1;Q8IYI6;Q9NV70;Q8TAG9}  
6548 Pathogen[ P03363] interacts with 5 human  
partners:{Q8IYI6;Q8NFW9;Q96A65;Q96KP1;Q9UPT5}  
6549 [Cluster 596]GO:0031462+C cellular\_component [name] Cul2-RING ubiquitin ligase complex  
[def] "A ubiquitin ligase complex in which a cullin from the Cul2 subfamily and a RING  
domain protein form the catalytic core- substrate specificity is conferred by an  
elongin-BC adaptor and a SOCS/BC box protein." [PMID  
6550 Pathogen[ Q2Q067] interacts with 4 human partners:{Q15370;Q8N668;Q13617;P62877}  
6551 Pathogen[ P0C214] interacts with 4 human partners:{Q13617;Q15370;Q8N668;P62877}  
6552 Pathogen[ P03346] interacts with 4 human partners:{Q15370;Q8N668;P62877;Q13617}  
6553 Pathogen[ Q85601] interacts with 4 human partners:{Q15370;P62877;Q8N668;Q13617}  
6554 Pathogen[ P14079] interacts with 4 human partners:{P62877;Q15370;Q8N668;Q13617}  
6555 Pathogen[ P03383] interacts with 4 human partners:{Q8N668;Q13617;P62877;Q15370}  
6556 Pathogen[ P03410] interacts with 4 human partners:{Q15370;P62877;Q13617;Q8N668}  
6557 Pathogen[ P14075] interacts with 4 human partners:{Q8N668;Q15370;Q13617;P62877}  
6558 Pathogen[ P0C206] interacts with 4 human partners:{P62877;Q13617;Q15370;Q8N668}  
6559 Pathogen[ P03363] interacts with 4 human partners:{Q15370;Q13617;Q8N668;P62877}  
6560 [Cluster 597]GO:0000178+C cellular\_component [name] exosome (RNase complex) [def]  
"Complex of 3'-5' exoribonucleases." [PMID  
6561 Pathogen[ Q2Q067] interacts with 12 human  
partners:{Q9NQT4;Q99547;Q9Y2L1;Q06265;Q13868;Q9Y3B2;Q9NPD3;Q5RKV6;Q15024;Q8TF46;Q9GZX  
7;Q96B26}  
6562 Pathogen[ P0C214] interacts with 12 human  
partners:{Q15024;Q9Y2L1;Q9Y3B2;Q5RKV6;Q99547;Q8TF46;Q9NPD3;Q13868;Q9GZX7;Q06265;Q9NQT  
4;Q96B26}  
6563 Pathogen[ P03346] interacts with 13 human  
partners:{Q5RKV6;Q96B26;Q9Y3B2;Q15024;Q9Y2L1;Q9NQT5;P42285;Q99547;Q06265;Q9NQT4;Q9NPD  
3;Q8TF46;Q13868}  
6564 Pathogen[ Q85601] interacts with 12 human  
partners:{Q5RKV6;Q9NPD3;Q99547;Q13868;Q9GZX7;Q9Y2L1;Q9NQT4;Q9Y3B2;Q15024;Q06265;Q96B2  
6;Q8TF46}  
6565 Pathogen[ P14079] interacts with 12 human  
partners:{Q9Y3B2;Q15024;Q9NQT4;Q13868;Q9NPD3;Q8TF46;Q9GZX7;Q5RKV6;Q9Y2L1;Q96B26;Q9954  
7;Q06265}  
6566 Pathogen[ P03383] interacts with 10 human  
partners:{Q06265;Q9Y2L1;Q99547;Q9Y3B2;Q9NPD3;Q9NQT4;Q96B26;Q5RKV6;Q13868;Q15024}  
6567 Pathogen[ P03410] interacts with 12 human  
partners:{Q9Y2L1;Q06265;Q5RKV6;Q8TF46;Q13868;Q96B26;Q15024;Q9GZX7;Q9NQT4;Q99547;Q9NPD  
3;Q9Y3B2}  
6568 Pathogen[ P14075] interacts with 10 human  
partners:{Q9NPD3;Q9Y2L1;Q13868;Q9NQT4;Q5RKV6;Q96B26;Q99547;Q15024;Q06265;Q9Y3B2}  
6569 Pathogen[ P0C206] interacts with 12 human  
partners:{Q9NPD3;Q5RKV6;Q13868;Q96B26;Q99547;Q9GZX7;Q06265;Q15024;Q9Y2L1;Q9Y3B2;Q9NQT  
4;Q8TF46}  
6570 Pathogen[ P03363] interacts with 12 human  
partners:{Q96B26;Q9NQT4;Q5RKV6;Q15024;Q99547;Q9Y3B2;Q9NPD3;Q9Y2L1;Q13868;Q9NQT5;Q8TF4  
6;P42285}



- 6571 [Cluster 598]GO:0000922+C cellular\_component [name] spindle pole [def] "Either of the ends of a spindle, where spindle microtubules are organized\_ usually contains a microtubule organizing center and accessory molecules, spindle microtubules and astral microtubules." [GOC
- 6572 Pathogen[ Q2Q067] interacts with 58 human partners:{P49454;Q96TC7;Q12798;Q96GE4;Q6P2H3;Q14008;Q9NS56;Q96RT8;Q14980;O43663;Q96ST8;Q99741;Q96R06;Q8WWK9;Q14511;Q5FBB7;Q13257;Q96SN8;P67775;Q92547;Q1MSJ5;Q5BJF6;P14635;Q96DB5;Q14203;Q99569;Q9Y448;O43264;Q9Y3A5;P62714;Q6PGN9;Q8TES7;Q96RT7;Q12834;P50748;Q9BQ89;Q9BSJ2;Q9Y5B0;Q9BT25;Q9C0F1;Q96MT8;Q1W6H9;A6NK89;Q9ULW0;O00139;Q9H4H8;P37198;O95271;Q9NR09;Q8IZT6;Q9NS23;Q9UGJ1;P30305;Q9H7T9;Q96CS2;Q96EA4;O14576;Q96CW5}
- 6573 Pathogen[ P0C214] interacts with 57 human partners:{Q13257;Q9BSJ2;Q14008;Q1MSJ5;O43264;Q9NS23;Q14203;Q9NS56;Q96EA4;Q96SN8;Q96R06;P50748;Q96MT8;P14635;O00139;Q96CW5;P46060;Q96TC7;Q96RT7;Q9UGJ1;Q96CS2;Q14980;Q9C0F1;P62714;Q6PGN9;Q96ST8;Q12798;P37198;Q9BT25;Q12834;Q9ULW0;O43663;Q96LK0;P67775;Q6P2H3;P30305;Q96DB5;Q96RT8;Q8TES7;Q1W6H9;Q14511;O14576;Q5FBB7;Q9Y5B0;Q9NR09;Q5BJF6;Q8WWK9;Q92547;Q95271;P49454;Q9Y3A5;Q8IZT6;Q9Y448;Q9H7T9;A6NK89;Q9BQ89;Q99741}
- 6574 Pathogen[ P03346] interacts with 64 human partners:{Q9BT25;Q5FBB7;O14576;Q14511;Q99569;Q96RT8;O43379;Q96R06;O00139;O43264;Q96TC7;P62714;P67775;Q14203;Q96CW5;P37198;Q9BQ89;Q9C0F1;Q96LK0;Q12834;P30305;Q14980;Q6P2H3;Q96ST8;Q9Y5B0;A6NK89;Q9NS56;Q9ULW0;Q96EA4;P14635;P46060;Q96SN8;Q14008;Q9UGJ1;Q9NVR7;Q6PGN9;Q6ZU80;Q5BJF6;Q9H4H8;Q92547;P50748;Q96DB5;Q96CS2;Q95271;Q9NR09;Q12798;Q9Y448;Q8WWK9;Q8IZT6;Q9BSJ2;Q8TES7;Q96GE4;Q96RT7;O43663;Q99741;Q1MSJ5;Q9NS23;O14965;Q1W6H9;Q13257;P49454;Q9Y3A5;Q9H7T9;Q96MT8}
- 6575 Pathogen[ Q85601] interacts with 62 human partners:{Q99569;P49454;Q6PGN9;Q9H7T9;Q9NS56;Q14008;Q8WWK9;P46060;Q92547;P62714;Q9BT25;Q96RT8;Q12798;Q96SN8;Q9Y3A5;O43264;Q5BJF6;Q9NS23;Q14203;Q96CW5;Q96EA4;Q9ULW0;Q8IZT6;Q6P2H3;Q9BQ89;Q96R06;Q12834;Q13257;O43663;Q96ST8;P30305;O14965;Q96LK0;Q9BSJ2;Q9Y448;Q9UGJ1;P14635;Q8TES7;Q9Y5B0;Q9C0F1;Q96MT8;Q1MSJ5;O14576;A6NK89;Q9BVA0;Q9H4H8;P67775;Q14980;P50748;Q96CS2;Q9NR09;Q96TC7;O43379;Q95271;Q99741;Q14511;Q1W6H9;O00139;Q96DB5;Q5FBB7;P51955;Q96RT7}
- 6576 Pathogen[ P14079] interacts with 66 human partners:{Q14980;Q9H7T9;Q9NS23;Q9Y5B0;Q9H4H8;Q96R06;Q95271;Q96GE4;A6NK89;Q9UGJ1;Q1MSJ5;Q96ST8;P46060;Q1W6H9;Q9ULW0;Q9Y3A5;Q9NVR7;Q9Y448;O43379;Q6ZU80;Q5FBB7;Q96LK0;Q9NR09;Q99741;O43663;Q5BJF6;P14635;P51955;Q9BQ89;Q96RT8;Q12798;O00139;Q13257;Q96EA4;Q99569;Q96RT7;P37198;Q8TCU4;O43264;Q9NS56;Q9BSJ2;Q9C0F1;Q96DB5;Q6PGN9;Q8WWK9;Q8TES7;Q92547;Q96FC9;Q9UQE7;P49454;Q9BT25;Q6P2H3;P30305;O14576;P50748;Q96TC7;Q9BVA0;O14965;Q96SN8;Q14203;Q8IZT6;Q96LZ7;Q96CW5;Q14008;Q8WVJ2;Q96CS2}
- 6577 Pathogen[ P03383] interacts with 48 human partners:{Q13257;P49454;Q9BSJ2;Q96TC7;Q1MSJ5;Q14008;Q8WWK9;O43264;Q5FBB7;Q14203;Q96SN8;Q96CW5;P62714;Q12798;P67775;Q96EA4;P14635;Q96MT8;Q96R06;Q9BQ89;Q96DB5;Q9C0F1;Q8TES7;Q12834;Q6PGN9;Q96CS2;Q14511;Q9BT25;Q5BJF6;Q9H4H8;Q9Y3A5;O14965;Q14980;Q96ST8;Q9NR09;Q9Y448;Q9Y5B0;Q9ULW0;Q9H7T9;O43663;P37198;Q92547;Q6P2H3;Q95271;A6NK89;Q99741;Q1W6H9;P50748}
- 6578 Pathogen[ P03410] interacts with 68 human partners:{Q9Y6G9;Q96LZ7;P62714;Q96TC7;Q8WVJ2;Q96DB5;O00139;Q9H7T9;Q96LK0;Q9UQE7;Q8WWK9;Q14008;Q96SN8;P50748;Q9NS23;Q8TCU4;Q12798;Q96R06;Q96CS2;O43264;Q8IZT6;P49454;O14965;Q96EA4;Q9NR09;O14576;Q9Y448;Q14980;P14635;Q14511;Q6P2H3;Q9NVR7;Q96GE4;Q95271;A6NK89;O43379;Q96ST8;Q5BJF6;Q6ZU80;Q9BQ89;Q9BSJ2;Q12834;Q92547;Q9Y5B0;Q5FBB7;Q96RT8;Q9ULW0;Q1MSJ5;Q96FC9;Q96CW5;Q6PGN9;P30305;Q96RT7;Q9H4H8;Q9C0F1;Q8TES7;P67775;Q9Y3A5;Q1W6H9;Q9BT25;Q9UGJ1;P46060;Q9BVA0;Q14203;O43663;Q13257;Q99569;Q99741}
- 6579 Pathogen[ P14075] interacts with 50 human partners:{Q96MT8;Q14511;Q1W6H9;O43663;Q9H7T9;A6NK89;P14635;Q96R06;Q9Y5B0;Q13257;Q96TC7;Q96SN8;Q12798;Q96ST8;Q9BT25;Q96GE4;Q9ULW0;Q9C0F1;Q96EA4;O00139;Q5BJF6;Q8TES7;O14965;Q6P2H3;P37198;Q96CS2;Q96DB5;Q5FBB7;Q9H4H8;P62714;P67775;Q9BQ89;Q6PGN9;P50748;Q9NR09;Q8WWK9;Q99741;Q14203;Q14008;O43264;Q95271;Q14980;Q1MSJ5;P49454;Q9BSJ2;Q92547;Q9Y448;Q12834;Q96CW5;Q9Y3A5}
- 6580 Pathogen[ P0C206] interacts with 67 human partners:{Q95271;Q96TC7;Q9NS56;Q96DB5;Q9BVA0;Q96SN8;Q9H7T9;Q14008;O14576;Q96ST8;Q5BJF6;Q9ULW0;Q96RT7;P51955;Q6P2H3;Q8TCU4;Q96CW5;Q9BQ89;Q9Y448;Q9BT25;Q9NVR7;Q8IZT6;P30305;Q6PGN9;P49454;P67775;Q99741;Q13257;Q9UGJ1;P46060;Q6ZU80;Q9Y5B0;O43379;Q9UQE7;Q9NR09;Q96LK0;Q99569;Q9Y6G9;Q96CS2;O43663;Q5FBB7;A6NK89;P62714;O00139;Q9Y3A5;Q96EA4;Q12798;P14635;Q1MSJ5;O14965;Q14980;Q96MT8;Q9C0F1;Q9NS23;Q14203;Q92547;P50748;O43264;Q8WWK9;Q9BSJ2;Q14511;Q12834;Q96LZ7;Q9H4H8;Q96GE4;Q1W6H9;Q8TES7}
- 6581 Pathogen[ P03363] interacts with 60 human partners:{Q9BQ89;Q5BJF6;Q92547;Q96EA4;P46060;P49454;Q96DB5;Q9Y5B0;P62714;Q96MT8;Q1MSJ5;Q8WWK9;Q14980;Q9ULW0;Q9H7T9;O43264;Q8TES7;Q9Y3A5;Q9BT25;Q9H4H8;P50748;Q96LK0;Q99569;Q96GE4;Q96TC7;Q5FBB7;Q6PGN9;Q96R06;Q12798;Q9NR09;Q14511;Q99741;Q96RT8;Q96ST8;Q95271;Q6P2H3;Q13257;Q9NVR7;O43379;Q96CS2;Q6ZU80;Q9NS23;Q96RT7;A6NK89;Q9UGJ1;Q9C0F1;Q12834;Q14008;Q9Y448;Q1W6H9;O43663;O00139;P37198;P67775;Q8IZT6;Q14203;Q9BSJ2;O14576;Q96CW5;Q96SN8}
- 6582 [Cluster 599]GO:0030870+C cellular\_component [name] Mre11 complex [def] "Trimeric protein complex that possesses endonuclease activity\_ involved in meiotic recombination, DNA repair and checkpoint signaling. In *Saccharomyces cerevisiae*, the complex comprises Mre11p, Rad50p, and Xrs2p\_ complexes identified in other species generally contain proteins orthologous to the *Saccharomyces cerevisiae* proteins." [GOC
- 6583 Pathogen[ Q2Q067] interacts with 4 human partners:{P49959;Q9NYB0;Q15554;O60934}

6584 Pathogen[ P0C214] interacts with 3 human partners:{P49959;Q15554;Q9NYB0}

6585 Pathogen[ P03346] interacts with 4 human partners:{Q15554;Q9NYB0;P49959;O60934}

6586 Pathogen[ Q85601] interacts with 4 human partners:{Q15554;P49959;Q9NYB0;O60934}

6587 Pathogen[ P14079] interacts with 3 human partners:{O60934;Q9NYB0;Q15554}

6588 Pathogen[ P03383] interacts with 2 human partners:{Q9NYB0;Q15554}

6589 Pathogen[ P03410] interacts with 4 human partners:{P49959;Q15554;Q9NYB0;O60934}

6590 Pathogen[ P14075] interacts with 2 human partners:{Q15554;Q9NYB0}

6591 Pathogen[ P0C206] interacts with 4 human partners:{P49959;Q15554;O60934;Q9NYB0}

6592 Pathogen[ P03363] interacts with 2 human partners:{Q15554;Q9NYB0}

6593 [Cluster 600]GO:0030176+C cellular\_component [name] integral to endoplasmic reticulum membrane [def] "Penetrating at least one phospholipid bilayer of an endoplasmic reticulum membrane. May also refer to the state of being buried in the bilayer with no exposure outside the bilayer." [GOC

6594 Pathogen[ Q2Q067] interacts with 5 human partners:{Q9H5J4;Q86XL3;Q9BW60;Q9GZR5;Q9BQE4}

6595 Pathogen[ P0C214] interacts with 4 human partners:{Q9GZR5;Q86XL3;Q9BW60;Q9BQE4}

6596 Pathogen[ P03346] interacts with 5 human partners:{Q9BW60;Q12981;Q9BUN8;Q9H5J4;Q86XL3}

6597 Pathogen[ Q85601] interacts with 6 human partners:{Q12981;Q86XL3;Q9BW60;Q9H5J4;Q9GZR5;Q9BQE4}

6598 Pathogen[ P14079] interacts with 17 human partners:{Q8N6M3;Q9H295;Q9BQE4;Q96Q80;Q9GZP9;Q86XL3;O94777;Q969N2;Q9P2X0;Q9BUN8;Q12981;Q9H490;A5D6W6;Q96BY9;Q9GZR5;Q9BW60;Q9H5J4}

6599 Pathogen[ P03383] interacts with 5 human partners:{Q9BW60;Q9GZR5;Q9BUN8;Q9H5J4;Q9BQE4}

6600 Pathogen[ P03410] interacts with 16 human partners:{A5D6W6;Q9GZR5;Q9H5J4;O94777;Q96Q80;Q9GZP9;Q9BQE4;Q8N6M3;Q96BY9;Q9BUN8;Q9BW60;Q969N2;Q12981;Q9H490;Q9P2X0;Q86XL3}

6601 Pathogen[ P14075] interacts with 7 human partners:{Q9BQE4;Q9H5J4;O94777;Q9BW60;Q9BUN8;Q9GZR5;Q8N6M3}

6602 Pathogen[ P0C206] interacts with 11 human partners:{Q86XL3;A5D6W6;O94777;Q9H5J4;Q8N6M3;Q9BQE4;Q9BUN8;Q9GZP9;Q12981;Q9GZR5;Q9BW60}

6603 Pathogen[ P03363] interacts with 2 human partners:{Q9H5J4;Q86XL3}

6604 [Cluster 601]GO:0016589+C cellular\_component [name] NURF complex [def] "A four subunit ISWI-containing protein complex that facilitates nucleosome mobility and transcriptional activation in an ATP-dependent manner. In contrast to other chromatin remodeling complexes, the ATPase activity of NURF requires nucleosomes rather than free DNA or histones." [GOC

6605 Pathogen[ Q2Q067] interacts with 3 human partners:{Q09028;P28370;Q12830}

6606 Pathogen[ P0C214] interacts with 5 human partners:{Q09028;P28370;O60264;Q8IXM2;Q12830}

6607 Pathogen[ P03346] interacts with 6 human partners:{Q12830;Q8IXM2;O60264;Q09028;Q9UGU5;P28370}

6608 Pathogen[ Q85601] interacts with 5 human partners:{Q12830;Q8IXM2;Q09028;P28370;O60264}

6609 Pathogen[ P14079] interacts with 5 human partners:{P28370;Q12830;O60264;Q8IXM2;Q09028}

6610 Pathogen[ P03383] interacts with 3 human partners:{Q09028;Q12830;P28370}

6611 Pathogen[ P03410] interacts with 5 human partners:{Q12830;Q09028;Q8IXM2;O60264;P28370}

6612 Pathogen[ P14075] interacts with 3 human partners:{Q09028;Q12830;P28370}

6613 Pathogen[ P0C206] interacts with 5 human partners:{P28370;Q8IXM2;Q09028;Q12830;O60264}

6614 Pathogen[ P03363] interacts with 5 human partners:{Q8IXM2;Q12830;Q09028;O60264;P28370}

6615 [Cluster 602]GO:0097149+C cellular\_component [name] centralspindlin complex [def] "A heterotetrameric protein complex playing a key role in the formation of the central spindle in mitosis. Made up of two molecules each of a mitotic kinesin (ZEN-4 in *Caenorhabditis elegans* or MKLP1 in mammals) and of two molecules each of a GTPase activating protein (GAP) factor (CYK-4 in *Caenorhabditis elegans* or MgcRacGAP in mammals)." [GOC

6616 Pathogen[ Q2Q067] interacts with 1 human partners:{Q02241}

6617 Pathogen[ P0C214] interacts with 1 human partners:{Q02241}

6618 Pathogen[ P03346] interacts with 2 human partners:{Q02241;Q9H8V3}

6619 Pathogen[ Q85601] interacts with 1 human partners:{Q02241}

6620 Pathogen[ P14079] interacts with 2 human partners:{Q02241;Q9H8V3}

6621 Pathogen[ P03383] interacts with 1 human partners:{Q02241}

6622 Pathogen[ P03410] interacts with 2 human partners:{Q9H8V3;Q02241}

6623 Pathogen[ P14075] interacts with 1 human partners:{Q02241}

6624 Pathogen[ P0C206] interacts with 2 human partners:{Q02241;Q9H8V3}

6625 Pathogen[ P03363] interacts with 1 human partners:{Q02241}

6626 [Cluster 603]GO:0045177+C cellular\_component [name] apical part of cell [def] "The region of a polarized cell that forms a tip or is distal to a base. For example, in a polarized epithelial cell, the apical region has an exposed surface and lies opposite to the basal lamina that separates the epithelium from other tissue." [GOC

6627 Pathogen[ Q2Q067] interacts with 12 human partners:{A6NGQ2;Q8NI35;Q9NPB6;Q14980;Q9BYG5;Q07157;Q9Y6N9;O14641;P29474;P81274;Q93008;P60953}

6628 Pathogen[ P0C214] interacts with 12 human partners:{P29474;Q8NI35;P81274;Q9UM54;Q9Y6N9;P60953;Q93008;Q14980;Q9NPB6;O14641;Q9BYG5;Q07157}

6629 Pathogen[ P03346] interacts with 18 human partners:{Q9Y6N9;P21283;Q86UT5;P29474;Q93008;Q9H329;Q9NPB6;P60953;P55196;P26038;Q8TEW0;Q14980;Q8NI35;O14641;P81274;Q9BYG5;Q07157;A6NGQ2}

6630 Pathogen[ Q85601] interacts with 12 human partners:{Q9BYG5;P81274;Q93008;Q8NI35;O14641;Q9Y6N9;Q9NPB6;P29474;Q07157;Q14980;P60953;Q9UM54}

6631 Pathogen[ P14079] interacts with 17 human partners:{Q14980;Q9BYG5;O14641;Q86UT5;Q07157;P26038;Q9UM54;A6NGQ2;A6PVL3;Q8TEW0;Q8NI35;P10620;Q8N300;Q9Y6N9;P81274;Q9NPB6;P35241}

6632 Pathogen[ P03383] interacts with 9 human partners:{P29474;P60953;Q07157;P81274;A6NGQ2;O14641;Q9BYG5;Q9NPB6;Q14980}

6633 Pathogen[ P03410] interacts with 20 human partners:{Q86UT5;A6PVL3;Q9H329;A6NGQ2;Q8NI35;Q8TCX1;Q9UM54;P29474;Q14980;P26038;Q07157;Q9Y6N9;P81274;P60953;Q8TEW0;Q9NPB6;P35241;Q8N300;Q9BYG5;O14641}

6634 Pathogen[ P14075] interacts with 9 human partners:{P60953;P29474;P81274;Q07157;O14641;A6NGQ2;Q9BYG5;Q9NPB6;Q14980}

6635 Pathogen[ P0C206] interacts with 16 human partners:{A6NGQ2;Q9UM54;P81274;Q93008;Q9Y6N9;Q9BYG5;Q86UT5;Q8TEW0;P55196;Q8NI35;Q9NPB6;P60953;P29474;Q07157;Q8N300;Q14980}

6636 Pathogen[ P03363] interacts with 14 human partners:{A6NGQ2;Q9Y6N9;P29474;Q14980;Q9NPB6;Q07157;P81274;Q86UT5;Q9BYG5;Q8NI35;Q9H329;O14641;P60953;Q93008}

6637 [Cluster 604]GO:0045254+C cellular\_component [name] pyruvate dehydrogenase complex [def] "Complex that carries out the oxidative decarboxylation of pyruvate to form acetyl-CoA\_ comprises subunits possessing three catalytic activities

6638 Pathogen[ Q2Q067] interacts with 1 human partners:{P10515}

6639 Pathogen[ P0C214] interacts with 3 human partners:{P11177;P09622;P10515}

6640 Pathogen[ P03346] interacts with 1 human partners:{P10515}

6641 Pathogen[ Q85601] interacts with 1 human partners:{P10515}

6642 Pathogen[ P14079] interacts with 1 human partners:{P10515}

6643 Pathogen[ P03383] interacts with 1 human partners:{P10515}

6644 Pathogen[ P03410] interacts with 1 human partners:{P10515}

6645 Pathogen[ P14075] interacts with 1 human partners:{P10515}

6646 Pathogen[ P0C206] interacts with 1 human partners:{P10515}

6647 Pathogen[ P03363] interacts with 1 human partners:{P10515}

6648 [Cluster 605]GO:0005662+C cellular\_component [name] DNA replication factor A complex [def] "A conserved heterotrimeric complex that binds nonspecifically to single-stranded DNA and is required for multiple processes in eukaryotic DNA metabolism, including DNA replication, DNA repair, and recombination. In all eukaryotic organisms examined the complex is composed of subunits of approximately 70, 30, and 14 kDa." [PMID

6649 Pathogen[ Q2Q067] interacts with 7 human partners:{P27694;P35244;Q13156;Q00577;P15927;Q96QR8;Q96HA7}

6650 Pathogen[ P0C214] interacts with 7 human partners:{Q13156;Q96QR8;Q00577;P15927;P35244;P27694;Q96HA7}

6651 Pathogen[ P03346] interacts with 7 human partners:{Q96QR8;Q96HA7;P27694;Q00577;P35244;Q13156;P15927}

6652 Pathogen[ Q85601] interacts with 7 human partners:{Q96QR8;Q96HA7;P35244;P27694;Q00577;P15927;Q13156}

6653 Pathogen[ P14079] interacts with 7 human partners:{Q96QR8;Q13156;Q96HA7;Q00577;P15927;P27694;P35244}

6654 Pathogen[ P03383] interacts with 7 human partners:{P27694;P15927;P35244;Q00577;Q96HA7;Q13156;Q96QR8}

6655 Pathogen[ P03410] interacts with 7 human partners:{P35244;Q00577;Q13156;P27694;P15927;Q96QR8;Q96HA7}

6656 Pathogen[ P14075] interacts with 7 human partners:{Q96QR8;P15927;Q13156;P35244;Q96HA7;P27694;Q00577}

6657 Pathogen[ P0C206] interacts with 7 human partners:{Q96HA7;Q13156;Q96QR8;P27694;P15927;P35244;Q00577}

6658 Pathogen[ P03363] interacts with 7 human partners:{P27694;Q96QR8;P35244;P15927;Q13156;Q00577;Q96HA7}

6659 [Cluster 606]GO:0032580+C cellular\_component [name] Golgi cisterna membrane [def] "The lipid bilayer surrounding any of the thin, flattened compartments that form the central portion of the Golgi complex." [GOC

6660 Pathogen[ Q2Q067] interacts with 6 human partners:{Q08378;Q96JB2;Q08379;Q9H4A6;Q9H4A5;Q9Y3A3}

6661 Pathogen[ P0C214] interacts with 7 human partners:{Q9H4A6;Q08379;P62166;Q08378;Q9H4A5;Q9Y3A3;Q96JB2}

6662 Pathogen[ P03346] interacts with 8 human partners:{Q9H4A5;Q08379;Q96JB2;Q9H4A6;Q08378;Q9Y3A3;P62166;Q15363}

6663 Pathogen[ Q85601] interacts with 7 human

6664 partners:{Q9H4A5;Q96JB2;Q08378;Q9Y3A3;Q9H4A6;P62166;Q08379}  
Pathogen[ P14079] interacts with 16 human

6665 partners:{Q969M3;A6NP81;A6NC78;Q9NZ42;Q4G0N0;Q08378;A8MQT2;O00461;Q15363;Q9Y3A3;Q08379;P62166;B7ZAQ6;Q9H4A5;Q96JB2;Q9H4A6}  
Pathogen[ P03383] interacts with 5 human

6666 partners:{Q96JB2;Q9H4A6;Q9Y3A3;Q08379;Q9H4A5}  
Pathogen[ P03410] interacts with 18 human

6667 partners:{Q4G0N0;Q96JB2;B7ZAQ6;Q08378;A6NC78;A8MQT2;Q9H4A6;A6NP81;O00461;Q9NZ42;Q969M3;Q9Y3A3;Q15363;A7E2F4;Q92805;P62166;Q9H4A5;Q08379}  
Pathogen[ P14075] interacts with 6 human

6668 partners:{Q96JB2;O00461;Q9H4A5;Q08379;Q9Y3A3;Q9H4A6}  
Pathogen[ P0C206] interacts with 13 human

6669 partners:{Q9Y3A3;Q9H4A6;Q9NZ42;P62166;Q96JB2;Q9H4A5;Q969M3;O00461;Q08378;Q08379;Q15363;A6NC78;B7ZAQ6}  
Pathogen[ P03363] interacts with 5 human

6670 partners:{Q9H4A6;Q08378;Q08379;Q9Y3A3;Q96JB2}  
[Cluster 607]GO:0005832+C cellular\_component [name] chaperonin-containing T-complex [def] "A multisubunit ring-shaped complex that mediates protein folding in the cytosol without a cofactor." [GOC

6671 Pathogen[ Q2Q067] interacts with 3 human partners:{P17987;P50991;P78371}

6672 Pathogen[ P0C214] interacts with 6 human  
partners:{Q99832;P49368;P78371;P48643;P17987;P50991}

6673 Pathogen[ P03346] interacts with 4 human partners:{P78371;P50991;P49368;P17987}

6674 Pathogen[ Q85601] interacts with 4 human partners:{P17987;P50991;P78371;P48643}

6675 Pathogen[ P14079] interacts with 5 human  
partners:{P48643;P50991;P78371;P17987;P49368}

6676 Pathogen[ P03383] interacts with 1 human partners:{P78371}

6677 Pathogen[ P03410] interacts with 6 human  
partners:{P17987;P49368;Q99832;P48643;P78371;P50991}

6678 Pathogen[ P14075] interacts with 1 human partners:{P78371}

6679 Pathogen[ P0C206] interacts with 5 human  
partners:{P48643;P50991;P17987;P49368;P78371}

6680 Pathogen[ P03363] interacts with 5 human  
partners:{P50991;P17987;P78371;P48643;P49368}

6681 [Cluster 608]GO:0005635+C cellular\_component [name] nuclear envelope [def] "The double lipid bilayer enclosing the nucleus and separating its contents from the rest of the cytoplasm\_ includes the intermembrane space, a gap of width 20-40 nm (also called the perinuclear space)." [ISBN

6682 Pathogen[ Q2Q067] interacts with 63 human  
partners:{P49454;Q14974;Q96EE3;Q9UH99;P50402;P09917;P02545;P52948;Q13185;P50995;Q12769;Q96HA1;P20700;Q9BUP3;P42166;Q9H2K2;Q12982;P55735;O75694;Q86XL3;P78406;O60238;P18850;P36956;Q8N1F7;Q7Z3B4;Q8NFH4;Q8NF91;Q13342;P12270;Q92575;O14980;P20073;Q9BW27;Q8TEM1;Q9UNN5;Q8NEH6;Q9BVL2;P09874;O14656;Q9NRG9;Q8NFH3;Q14739;P37198;Q5VWP3;Q92621;O95476;Q8IZQ1;Q12983;P57740;Q8N9Z9;P42166;Q9GZN7;Q8WUM0;O00165;P43487;Q9BZF9;Q8NE71;P45973;Q13023;Q8NFH5;Q5SRE5;Q9NW38}

6683 Pathogen[ P0C214] interacts with 63 human  
partners:{P18850;P55735;Q14739;P09917;P42166;Q8NFH5;P43487;Q8TEM1;Q8NEH6;Q13023;P78406;P57740;Q8N1F7;O75694;Q96EE3;O14656;P20700;Q9UH99;Q8NE71;Q9BUP3;O14980;Q8NF91;P37198;Q8IZQ1;Q9BW27;O00165;Q9UNN5;P50402;Q12982;Q9NRG9;Q86XL3;Q13185;Q8NFH3;Q9H2K2;Q8N9Z9;Q12983;O95476;Q8N2G8;O60238;Q5VWP3;P45973;Q9BZF9;Q9GZN7;P12270;Q14974;Q13342;Q92575;P02545;Q8NFH4;Q9BVL2;P49454;Q5SRE5;P20073;P50995;Q7Z3B4;Q8WUM0;P52948;Q92621;P80303;Q12769;Q9NW38;P09874;Q96HA1}

6684 Pathogen[ P03346] interacts with 77 human  
partners:{Q8TEM1;P55735;Q8NFH4;Q8WUM0;Q14739;P45973;P12270;P80303;P0CAP2;Q12769;Q96EE3;Q5VWP3;P36956;Q8IZQ1;P20073;P20700;Q9BUP3;O75694;O14656;Q9NRG9;O60238;P78406;P57740;Q8WXH0;P43487;Q9UH99;Q9BVL2;Q8N1F7;Q12981;Q13023;P06703;Q8NFH5;Q8WWZ8;P37198;Q8NFH3;P42166;Q12983;P02545;P18850;Q5SRE5;Q92575;Q6UW56;O00299;Q92621;Q9H2K2;Q9BW27;O14980;P09917;Q9UNN5;Q8N9Z9;Q13342;Q9GZN7;Q6ZM3;P50995;P09874;P50402;O95476;O00165;Q92832;Q8NE71;Q9BZF9;P24855;Q96HA1;Q86XL3;Q9NW38;Q12982;Q8NF91;O94901;Q7Z3B4;P42166;Q13185;Q8NEH6;Q96IK5;Q8N2G8;P49454;Q14974;P52948}

6685 Pathogen[ Q85601] interacts with 65 human  
partners:{Q8TEM1;P49454;P20700;Q5SRE5;Q92575;P09874;P02545;Q8NFH4;Q8NFH3;Q96EE3;O00165;P09917;Q12769;P50995;P78406;P57740;P43487;Q9NRG9;Q9BZF9;Q12982;Q8WUM0;Q8N1F7;P80303;Q12981;P12270;P42166;O75694;Q5VWP3;Q14974;Q9UH99;Q86XL3;Q9H2K2;Q9BW27;Q9UNN5;Q92621;P36956;P45973;P55735;P52948;O14656;P18850;Q13185;Q8NFH5;Q9NW38;O14980;O95476;P50402;P20073;Q8NE71;Q8IZQ1;Q12983;Q8N9Z9;Q13342;Q9BVL2;Q96HA1;Q8NEH6;Q8N2G8;Q13023;Q8NF91;O94901;O60238;Q7Z3B4;Q9GZM8;Q9BUP3;Q14739}

6686 Pathogen[ P14079] interacts with 81 human  
partners:{Q8NFH5;Q8NBV4;Q9BW27;Q96HA1;P09874;Q12982;Q8NEH6;Q16873;P20292;P50995;P57740;Q8N1F7;Q13023;O00165;O94901;Q92621;Q8TEM1;Q14739;Q9H2K2;Q5VWP3;Q86XL3;Q6ZMK1;Q9BUP3;Q9BVL2;P45973;P80303;Q8WUM0;O14656;Q13185;P12270;Q9UNN5;Q8N114;P42166;Q5JTV8;Q9GZN7;Q92832;Q8NC56;Q8NE71;Q14974;Q8N2G8;P24855;Q12981;Q8WXH0;Q8NFH3;Q6ZM3;Q96EE3;P37198;Q12983;P09917;Q8NDB6;Q9NSU2;Q9GZM8;P18850;P20700;Q8NFH4;Q9BZF9;P78406;P20073;Q7Z3B4;O95476;P55735;P49454;P42166;Q8N9Z9;P06703;P50402;Q8NF91;Q12769;Q9UH99;P02545;O60238;Q92575;Q9NW38;P36956;Q5SRE5;Q9NRG9;O75694;P0CAP2;Q8IXM6;Q13342;P52948}

6687 Pathogen[ P03383] interacts with 52 human

partners:{Q9BVL2;P02545;Q96EE3;Q8WUM0;P49454;P50995;Q92621;Q8NFH4;P55735;P12270;Q8NE71;P52948;Q9GZN7;Q13023;P78406;P0CAP2;P57740;Q9BZF9;Q8NFH5;Q9UH99;Q8N1F7;O00165;Q8TEM1;Q12983;Q12769;Q13185;Q9BW27;P45973;O60238;P20700;Q9UNN5;P43487;O14980;Q13342;P09874;Q8IZQ1;Q14974;Q5SRE5;P50402;Q96HA1;Q9BUP3;Q9NRG9;P37198;P18850;Q9NW38;Q8N9Z9;P20073;Q7Z3B4;O75694;Q8NFH3;Q92575;Q8NEH6}

6688 Pathogen[ P03410] interacts with 84 human  
partners:{Q7Z3B4;Q9BW27;P36956;Q9UNN5;Q14974;P80303;Q14739;Q8NE71;Q12983;P50995;Q9GZM8;Q8NFH4;Q6ZMZ3;O14656;Q9UH99;Q5SRE5;O00165;P52948;P20700;O75694;Q8N114;P78406;P45973;Q9NSU2;Q96HA1;Q92832;P06703;Q8N1F7;Q92575;P49454;Q6ZMK1;Q8NEH6;P42166;P12270;Q8N9Z9;Q13342;Q8WWZ8;Q68G75;Q8NFH5;Q16873;P02545;P43487;Q8TEM1;P42167;Q8N2G8;Q9BUP3;Q13023;P09874;P0CAP2;Q96EE3;Q13185;P50402;O95476;O94901;Q9BZF9;P20073;Q8WUM0;Q12982;P09917;Q8NC56;Q9H2K2;Q9NW38;P57740;P55735;Q5JTV8;Q12981;Q12769;P20292;Q8IXM6;Q9NRG9;Q5VWP3;Q8NFH3;P18850;Q8WXH0;Q9BVL2;Q86XL3;Q92621;P24855;O60238;O14980;Q9GZN7;Q8NBV4;Q8IZQ1;Q8NF91}

6689 Pathogen[ P14075] interacts with 55 human  
partners:{Q9BUP3;Q12983;P0CAP2;P78406;P57740;P43487;P20700;Q8N1F7;Q8IZQ1;P45973;Q5VWP3;P12270;P20073;P50402;Q92621;P55735;Q9NW38;Q96HA1;O14980;P50995;Q9BW27;P02545;Q9UNN5;Q8TEM1;Q13185;O60238;Q96EE3;P37198;Q8IXM6;Q92575;Q5SRE5;Q8NE71;Q8NFH3;Q13342;Q9UH99;Q9BZF9;Q12769;Q14974;Q9GZN7;Q9BVL2;Q8WUM0;P49454;P42167;O75694;Q9NRG9;Q7Z3B4;O00165;Q8NFH4;Q8N9Z9;Q8NFH5;Q8NEH6;P09874;P52948;P18850;Q13023}

6690 Pathogen[ P0C206] interacts with 78 human  
partners:{Q9UNN5;Q96EE3;Q12982;Q92621;P50402;Q92575;P45973;P09917;Q14739;Q8IXM6;Q5SRE5;Q9BUP3;Q8NFH5;Q9NRG9;Q9NSU2;Q9GZN7;P09874;Q8NEH6;P18850;Q13023;Q86XL3;Q8N2G8;Q7Z3B4;P50995;Q9UH99;Q6ZMK1;Q14974;Q96HA1;P80303;Q6UW56;P55735;Q13342;P36956;P57740;P49454;O95476;P24855;O94901;Q9GZM8;Q8IZQ1;Q8NC56;Q8WUM0;O60238;Q6ZMZ3;Q12983;Q8TEM1;Q8NF91;O00165;P42166;Q8N9Z9;P43487;O75694;O14656;Q8NE71;Q8NFH4;Q12981;P06703;P02545;P20292;Q8WXH0;Q13185;P78406;P20700;Q92832;Q12769;P42167;Q9BZF9;Q8NFH3;P0CAP2;Q8N1F7;P20073;Q9H2K2;Q8NBV4;Q9BW27;Q5VWP3;Q9BVL2;Q9NW38;P12270}

6691 Pathogen[ P03363] interacts with 64 human  
partners:{Q9UNN5;Q9NW38;Q8N9Z9;P49454;Q7Z3B4;Q9BUP3;Q8NF91;Q6ZMZ3;Q5SRE5;P12270;Q92575;Q8NFH4;P02545;Q8NFH3;P45973;O14980;P20700;Q12769;P42167;Q6UW56;P18850;Q8NEH6;Q13342;Q8N2G8;O95476;Q13185;Q9H2K2;P20073;P50995;Q9BZF9;Q9NRG9;Q92832;Q8WUM0;Q9BVL2;P43487;Q96HA1;Q14974;O75694;P50402;P57740;Q13023;Q8IZQ1;O94901;Q8NE71;P78406;P0CAP2;P52948;Q14739;O00165;P09874;Q5VWP3;P24855;P37198;Q8N1F7;Q92621;Q8NFH5;O60238;Q9GZN7;Q86XL3;P55735;Q12982;P42166;Q9BW27;Q9UH99}

6692 [Cluster 609]GO:0070522+C cellular\_component [name] ERCC4-ERCC1 complex [def] "A heterodimeric nucleotide-excision repair complex that has endonuclease activity specific for bubble structures characteristic of certain DNA lesions. The subunits are known as XPF/ERCC4 and ERCC1 in mammals, and Rad1p and Rad10p in *S. cerevisiae*." [PMID]

6693 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8IY92}

6694 Pathogen[ P0C214] interacts with 1 human partners:{Q8IY92}

6695 Pathogen[ P03346] interacts with 1 human partners:{Q8IY92}

6696 Pathogen[ Q85601] interacts with 1 human partners:{Q8IY92}

6697 Pathogen[ P14079] interacts with 1 human partners:{Q8IY92}

6698 Pathogen[ P03383] interacts with 1 human partners:{Q8IY92}

6699 Pathogen[ P03410] interacts with 1 human partners:{Q8IY92}

6700 Pathogen[ P14075] interacts with 1 human partners:{Q8IY92}

6701 Pathogen[ P0C206] interacts with 1 human partners:{Q8IY92}

6702 Pathogen[ P03363] interacts with 1 human partners:{Q8IY92}

6703 [Cluster 610]GO:0005724+C cellular\_component [name] nuclear telomeric heterochromatin [def] "Heterochromatic regions of the chromosome found at the telomeres of a chromosome in the nucleus." [GOC]

6704 Pathogen[ Q2Q067] interacts with 2 human partners:{Q8N6T7;Q9C0C2}

6705 Pathogen[ P0C214] interacts with 2 human partners:{Q9C0C2;Q8N6T7}

6706 Pathogen[ P03346] interacts with 2 human partners:{Q8N6T7;Q9C0C2}

6707 Pathogen[ Q85601] interacts with 2 human partners:{Q8N6T7;Q9C0C2}

6708 Pathogen[ P14079] interacts with 2 human partners:{Q9C0C2;Q8N6T7}

6709 Pathogen[ P03383] interacts with 2 human partners:{Q8N6T7;Q9C0C2}

6710 Pathogen[ P03410] interacts with 2 human partners:{Q8N6T7;Q9C0C2}

6711 Pathogen[ P14075] interacts with 2 human partners:{Q8N6T7;Q9C0C2}

6712 Pathogen[ P0C206] interacts with 2 human partners:{Q8N6T7;Q9C0C2}

6713 Pathogen[ P03363] interacts with 2 human partners:{Q8N6T7;Q9C0C2}

6714 [Cluster 611]GO:0031965+C cellular\_component [name] nuclear membrane [def] "Either of the lipid bilayers that surround the nucleus and form the nuclear envelope\_ excludes the intermembrane space." [GOC]

6715 Pathogen[ Q2Q067] interacts with 75 human  
partners:{Q14974;Q9UH99;P50402;P09917;P18754;P52948;Q9BZE4;Q96HA1;O75340;P49790;O75694;P30793;Q12765;Q9NZJ0;A8CG34;Q8WYP5;P30279;P14373;Q86WB0;Q9Y3D9;Q8N1F7;P15976;Q7Z3B4;P5BJF2;Q8NF91;P12270;Q86UE4;P37802;P63165;Q8N9A8;Q9UND3;Q96G23;Q9BVI4;Q9BW27;Q9BZW7;Q8NHQ1;Q8TEM1;Q96MT3;P82914;Q674X7;Q9BVL2;Q86UW9;Q9H8M7;Q9HD36;O60783;O14656;Q9UKX7;Q9UNX4;Q9NRG9;Q9BVC6;Q14739;Q99543;P37198;Q9H4A6;Q92621;O95476;Q9UM11;Q9UKD2;O15504;P40121;Q9HC62;Q95271;Q9H9L7;O00165;Q9H2F5;Q15007;Q9NUQ3;P30047;P49406;P11802;Q13023;Q8NFH5;Q15154;O96028;Q14693}

6716 Pathogen[ P0C214] interacts with 79 human  
partners:{Q9HA82;P49406;Q15007;Q8N9A8;Q14739;P09917;Q15154;O14681;Q9H4A6;Q8NFH5;Q9Y3D9;Q9UNX4;Q8NHQ1;Q8TEM1;P40121;Q9UM54;Q13023;P11802;Q8WYP5;Q9UND3;Q86WB0;Q8N1F7;O75694}

- ;Q9BVI4;O14656;Q9UKX7;O75340;P46060;Q9H2F5;Q96MT3;Q86UE4;P82914;A8CG34;Q9NUQ3;Q9UH99;Q674X7;P30793;P49790;Q8NF91;P37198;Q9BW27;P63165;O00165;P50402;Q9NRG9;Q9H8M7;Q9HD36;Q9NZJ0;Q96G23;Q9BZW7;Q5JTH9;O95476;Q9NUU7;P30279;O15504;Q9BVC6;Q9UKD2;Q12765;Q9UMR2;Q9HC62;P12270;Q99543;Q14974;Q9BZE4;Q9UM11;Q9BVL2;P14373;P30047;O95271;P18754;Q7Z3B4;Q86UW9;P52948;Q92621;O60783;Q96028;Q14693;Q9H9L7;Q96HA1}
- 6717 Pathogen[ P03346] interacts with 89 human partners: {Q8TEM1;P37802;Q9NZJ0;Q9H0H0;Q3YBM2;Q86UW9;Q14739;P49406;P12270;P30279;P14373;Q96RT1;Q9UKD2;Q9UM11;Q86UE4;Q99543;Q9BZE4;Q9UKX7;O75694;O14656;Q9UMR2;Q15154;Q9NRG9;Q9H4A6;Q8WXH0;Q15007;Q8WYP5;Q9UH99;Q9BVL2;Q86WB0;Q8N1F7;Q7Z3G6;Q96B42;Q13023;Q9UNX4;P18754;Q8NFH5;P37198;Q9BVI4;Q5BJF2;P30047;P11802;Q96MT3;Q9BTX1;O00299;Q9Y3D9;Q92621;Q9BW27;P09917;Q14863;O75340;P15976;P46060;P82914;P40121;Q9NUQ3;O60783;Q96G23;Q8N9A8;P63165;Q9H9L7;Q9H2F5;P50402;O95476;Q9BVC6;Q96KC8;O00165;Q9NUU7;Q9HC62;Q96PY6;Q8NHQ1;O95271;A8CG34;Q9UND3;Q12765;P49790;Q674X7;Q9H8M7;Q96HA1;Q9BZW7;Q8NF91;O94901;Q7Z3B4;Q9HD36;O15504;O96028;Q14693;Q14974;P52948}
- 6718 Pathogen[ Q85601] interacts with 80 human partners: {Q8TEM1;Q8NHQ1;P37802;Q99543;Q9H2F5;P14373;Q15154;P15976;P46060;O00165;Q96RT1;P49406;Q9BZE4;Q9HD36;P09917;A8CG34;Q96PY6;Q9H8M7;Q9NRG9;Q15007;Q8WYP5;Q9HC62;Q86WB0;Q8N1F7;Q9NZJ0;Q9UMR2;Q9UNX4;Q9Y3D9;P12270;O75694;P30793;O15504;Q14974;P30047;P11802;Q96MT3;Q9UH99;Q9BW27;Q86UW9;Q92621;Q8N6T3;P40121;Q9UKD2;Q96G23;Q8N9A8;Q9NUU7;P30279;P52948;Q9UKX7;O14656;Q8NFH5;Q86UE4;O75340;Q9H4A6;O95476;P50402;Q9UM11;P63165;P18754;Q12765;O60783;Q674X7;Q9UM54;Q9BVL2;Q96HA1;Q13023;O95271;Q9H9L7;Q8NF91;O94901;P82914;Q9UND3;Q9BVI4;Q7Z3B4;P49790;Q9NUQ3;Q14739;O96028;Q14693;Q9BZW7}
- 6719 Pathogen[ P14079] interacts with 93 human partners: {Q8NFH5;Q9BW27;Q15007;Q96HA1;P37802;P14373;Q14693;P20292;O95271;Q9BVC6;Q8N1F7;Q13023;O00165;A8CG34;O94901;Q92621;Q8TEM1;Q8N9A8;Q9UNX4;Q9HA82;P46060;P15976;Q14739;Q9UM54;P63165;Q5BJF2;Q9NUQ3;P30793;O60783;P40121;Q9UKX7;Q9BVI4;Q9BZE4;Q96RT1;Q9BVL2;Q9H9L7;O15504;Q99543;O14656;Q9HC62;P12270;Q9UND3;Q8N114;Q8WYP5;Q9UM11;Q8N201;Q96G23;O75340;Q9HD36;Q8NC56;Q14974;Q86UW9;Q8WXH0;P37198;P09917;P49790;Q86UE4;Q9H2F5;Q7Z3G6;Q12765;Q86WB0;Q9H0H0;Q6ZVT0;Q5JTH9;Q7Z3B4;O95476;Q9NZJ0;Q8NHQ1;Q15154;P50402;Q8NF91;Q96B42;Q9UH99;Q9UKD2;Q8NFQ8;Q9NXF1;Q9H4A6;Q96MT3;Q9NRG9;Q9H8M7;O75694;O14681;Q3YBM2;P18754;P30047;Q9BTX1;Q674X7;Q9H6F2;P52948;Q9Y3D9;P82914;P49406;Q9BZW7}
- 6720 Pathogen[ P03383] interacts with 63 human partners: {Q9BVL2;O15504;Q92621;Q86UW9;Q9NZJ0;Q86UE4;P12270;A8CG34;Q3YBM2;P52948;Q13023;P49406;Q9NUQ3;Q8NFH5;Q8WYP5;Q9UH99;Q86WB0;Q96MT3;Q9H2F5;Q8N1F7;Q9BZW7;Q9H9L7;Q9BZE4;O00165;P82914;Q8TEM1;P11802;P30279;Q9Y3D9;Q9H8M7;O60783;Q9BVC6;Q9BW27;Q9BVI4;P18754;Q12765;Q9UM11;P63165;Q15154;Q9BTX1;Q5BJF2;Q14974;Q9H4A6;Q99543;P50402;Q15007;P37802;Q96HA1;Q96PY6;Q9NRG9;Q8N9A8;Q9UND3;Q9HC62;O14681;P37198;Q9UKX7;O95271;Q7Z3B4;P30047;P49790;O75694;Q8NHQ1;Q14693}
- 6721 Pathogen[ P03410] interacts with 93 human partners: {Q86UW9;Q5JTH9;Q9NXF1;Q7Z3B4;Q9BW27;Q9UNX4;P30047;Q86WB0;O14681;Q9BVI4;Q14974;Q96RT1;Q14739;P30279;Q6ZVT0;Q9BVC6;Q9UKX7;P63165;Q15154;Q96B42;O14656;Q12765;Q9UH99;O00165;P52948;O15504;P49406;O75694;Q9HD36;Q8N114;Q96HA1;P30793;Q9H4A6;Q96G23;Q14693;Q8N1F7;O60783;Q9H2F5;P37802;Q9UM54;Q8N201;Q9UMR2;Q9H0H0;Q9H6F2;P49790;Q9HC62;Q9UM11;P12270;Q9NUU7;Q9HA82;Q9H9L7;O95271;Q8NFH5;P11802;Q86UE4;Q674X7;Q9UND3;Q8TEM1;Q13023;Q9NUQ3;Q9UKD2;P50402;Q9BZW7;O95476;O94901;Q9Y3D9;Q9H8M7;A8CG34;P09917;Q8NC56;Q3YBM2;O75340;P18754;Q8NFQ8;Q99543;Q96MT3;P20292;Q8N9A8;P82914;P40121;Q5BJF2;Q9NRG9;Q8WYP5;Q8WXH0;Q9BVL2;P15976;Q9BTX1;Q9BZE4;Q92621;P46060;Q15007;Q9NZJ0;Q8NF91}
- 6722 Pathogen[ P14075] interacts with 64 human partners: {P63165;Q96MT3;Q9BVC6;Q9H2F5;O14681;Q8N9A8;Q9Y3D9;P11802;Q86UE4;P49406;Q9UM11;A8CG34;P30279;Q8WYP5;Q86WB0;Q8N1F7;Q9UKX7;Q99543;Q8NHQ1;P12270;P50402;Q92621;Q9BTX1;Q9NUQ3;Q96HA1;Q9BW27;Q3YBM2;O60783;P37802;Q8TEM1;Q9UND3;Q9HC62;Q15007;P30047;P37198;P82914;Q15154;Q9BZE4;O15504;Q9BVI4;Q9UH99;P18754;Q96PY6;Q9BZW7;Q14974;Q9BVL2;P49790;P30793;Q9NZJ0;O95271;Q9H9L7;O75694;Q9NRG9;Q12765;Q9H4A6;Q7Z3B4;O00165;Q8NFH5;Q86UW9;P52948;Q5BJF2;Q9H8M7;Q13023;Q14693}
- 6723 Pathogen[ P0C206] interacts with 99 human partners: {O95271;Q5BJF2;O75340;Q6ZVT0;Q92621;Q8WYP5;P50402;Q9UM54;Q9BVI4;Q96G23;Q9H4A6;Q96RT1;P09917;P49790;Q9H2F5;Q14739;Q8N6T3;Q9NUQ3;Q8NFH5;Q86UW9;Q9NRG9;Q9NUU7;Q96MT3;Q9HD36;P40121;O60783;P82914;P18754;Q13023;Q5JTH9;Q7Z3B4;Q9UH99;P30279;Q14974;Q9HC62;Q96HA1;Q96PY6;Q9H9L7;Q9BZW7;P49406;Q9H0H0;P15976;P30793;O95476;O94901;O94762;Q8NC56;P30047;Q7Z3G6;P46060;O14681;Q8TEM1;Q9UKX7;Q8NF91;Q15007;O00165;Q9HA82;Q3YBM2;Q9BVC6;O75694;Q99543;O14656;Q9BTX1;O96028;Q9UM11;Q9Y3D9;P37802;Q96B42;Q12765;Q9NZJ0;Q9BZE4;P20292;Q8WXH0;Q8NFQ8;Q86WB0;Q86UE4;Q14863;Q674X7;Q9UKD2;O15504;A8CG34;Q9UMR2;P63165;Q9UND3;P14373;Q15154;Q8NHQ1;Q14693;Q8N1F7;Q86YT6;Q9UNX4;Q9H8M7;P11802;Q9BX63;Q9BW27;Q8N201;Q9BVL2;P12270;Q8N9A8}
- 6724 Pathogen[ P03363] interacts with 80 human partners: {O94762;Q9BX63;P46060;Q7Z3B4;Q96RT1;Q8NF91;Q86WB0;P12270;Q9UND3;Q8N9A8;P14373;O75340;P49406;Q99543;Q14863;Q96MT3;P30279;Q8WYP5;P37802;P82914;Q9H2F5;Q9H8M7;Q9NUU7;Q8NHQ1;Q9BZE4;A8CG34;Q9UKX7;Q86UE4;Q9H4A6;O95476;Q9UNX4;Q9UM11;Q3YBM2;Q9HD36;Q9NRG9;Q9BVL2;P63165;Q9HC62;Q86UW9;O95271;Q9Y3D9;Q96HA1;Q9H9L7;Q674X7;Q14974;O60783;O75694;P49790;P50402;Q9H0H0;Q13023;O96028;Q9UMR2;Q9BTX1;Q5BJF2;O94901;Q96G23;Q9BZW7;Q9NUQ3;Q9UKD2;P52948;Q14739;O00165;Q12765;O15504;P30047;P11802;P37198;P18754;Q9NZJ0;Q8N1F7;Q92621;Q8NFH5;Q15154;P40121;Q9BVI4;Q15007;Q96B42;Q9BW27;Q9UH99}
- 6725 [Cluster 612]GO:0032299+C cellular\_component [name] ribonuclease H2 complex [def] "A protein complex that possesses ribonuclease H activity, in which the catalytic subunit is a member of the RNase H2 (or HII) class. For example, in *Saccharomyces* the complex contains Rnh201p, Rnh202p and Rnh203p." [GOC

6726 Pathogen[ Q2Q067] interacts with 3 human partners: {Q8TDP1;O75792;Q5TBB1}

6727 Pathogen[ P0C214] interacts with 3 human partners: {Q5TBB1;O75792;Q8TDP1}

6728 Pathogen[ P03346] interacts with 3 human partners: {Q5TBB1;Q8TDP1;O75792}

6729 Pathogen[ Q85601] interacts with 3 human partners: {O75792;Q8TDP1;Q5TBB1}

6730 Pathogen[ P14079] interacts with 3 human partners: {O75792;Q8TDP1;Q5TBB1}

6731 Pathogen[ P03383] interacts with 3 human partners: {O75792;Q8TDP1;Q5TBB1}

6732 Pathogen[ P03410] interacts with 3 human partners: {O75792;Q8TDP1;Q5TBB1}

6733 Pathogen[ P14075] interacts with 3 human partners: {Q5TBB1;O75792;Q8TDP1}

6734 Pathogen[ P0C206] interacts with 3 human partners: {O75792;Q8TDP1;Q5TBB1}

6735 Pathogen[ P03363] interacts with 3 human partners: {Q5TBB1;O75792;Q8TDP1}

6736 [Cluster 613]GO:0001650+C cellular\_component [name] fibrillar center [def] "A structure found most metazoan nucleoli, but not usually found in lower eukaryotes\_ surrounded by the dense fibrillar component\_ the zone of transcription from multiple copies of the pre-rRNA genes is in the border region between these two structures." [PMID

6737 Pathogen[ Q2Q067] interacts with 2 human partners: {P63279;Q9Y262}

6738 Pathogen[ P0C214] interacts with 2 human partners: {Q9Y262;P63279}

6739 Pathogen[ P03346] interacts with 2 human partners: {P63279;Q9Y262}

6740 Pathogen[ Q85601] interacts with 2 human partners: {P63279;Q9Y262}

6741 Pathogen[ P14079] interacts with 2 human partners: {P63279;Q9Y262}

6742 Pathogen[ P03383] interacts with 2 human partners: {Q9Y262;P63279}

6743 Pathogen[ P03410] interacts with 2 human partners: {P63279;Q9Y262}

6744 Pathogen[ P14075] interacts with 2 human partners: {P63279;Q9Y262}

6745 Pathogen[ P0C206] interacts with 1 human partners: {Q9Y262}

6746 Pathogen[ P03363] interacts with 2 human partners: {P63279;Q9Y262}

6747 [Cluster 614]GO:0070419+C cellular\_component [name] nonhomologous end joining complex [def] "A protein complex that plays a role in DNA double-strand break repair via nonhomologous end joining. Such complexes typically contain a specialized DNA ligase (e.g. Lig4 in eukaryotes) and one or more proteins that bind to DNA ends." [GOC

6748 Pathogen[ Q2Q067] interacts with 4 human partners: {Q9H9Q4;Q13426;P12956;P13010}

6749 Pathogen[ P0C214] interacts with 4 human partners: {Q9H9Q4;P13010;Q13426;P12956}

6750 Pathogen[ P03346] interacts with 4 human partners: {P12956;Q13426;P13010;Q9H9Q4}

6751 Pathogen[ Q85601] interacts with 4 human partners: {Q13426;Q9H9Q4;P13010;P12956}

6752 Pathogen[ P14079] interacts with 5 human partners: {Q9H9Q4;P13010;P12956;Q13426;P49917}

6753 Pathogen[ P03383] interacts with 4 human partners: {P13010;Q9H9Q4;Q13426;P12956}

6754 Pathogen[ P03410] interacts with 4 human partners: {P12956;Q13426;P13010;Q9H9Q4}

6755 Pathogen[ P14075] interacts with 4 human partners: {P12956;Q9H9Q4;Q13426;P13010}

6756 Pathogen[ P0C206] interacts with 5 human partners: {P13010;P49917;Q9H9Q4;Q13426;P12956}

6757 Pathogen[ P03363] interacts with 4 human partners: {P12956;P13010;Q13426;Q9H9Q4}

6758 [Cluster 615]GO:0005740+C cellular\_component [name] mitochondrial envelope [def] "The double lipid bilayer enclosing the mitochondrion and separating its contents from the cell cytoplasm\_ includes the intermembrane space." [GOC

6759 Pathogen[ Q2Q067] interacts with 4 human partners: {O60543;O60238;Q15388;Q12983}

6760 Pathogen[ P0C214] interacts with 5 human partners: {Q15388;O60543;Q12983;O60238;O14521}

6761 Pathogen[ P03346] interacts with 4 human partners: {O60238;Q12983;Q15388;O60543}

6762 Pathogen[ Q85601] interacts with 4 human partners: {Q15388;O60543;Q12983;O60238}

6763 Pathogen[ P14079] interacts with 8 human partners: {O60543;Q13323;P10606;Q9UDW1;Q15388;Q12983;O14521;O60238}

6764 Pathogen[ P03383] interacts with 4 human partners: {O60543;Q12983;O60238;Q15388}

6765 Pathogen[ P03410] interacts with 8 human partners: {Q12983;Q15388;Q9UDW1;O14521;O60543;O60238;P10606;Q13323}

6766 Pathogen[ P14075] interacts with 4 human partners: {Q12983;Q15388;O60543;O60238}

6767 Pathogen[ P0C206] interacts with 6 human partners: {Q9UDW1;O14521;O60238;Q12983;Q15388;O60543}

6768 Pathogen[ P03363] interacts with 3 human partners: {O60543;Q15388;O60238}

6769 [Cluster 616]GO:0035068+C cellular\_component [name] micro-ribonucleoprotein complex [def] "A complex containing both protein and micro-RNA (miRNA) molecules. miRNAs are approximately 22 nucleotide noncoding RNAs derived from endogenous genes\_ they are processed from the stem of a longer hairpin like structure termed a pre-miRNA." [GOC

6770 Pathogen[ Q2Q067] interacts with 4 human partners: {Q9HCK5;Q9H9G7;Q9UKV8;Q9UL18}

6771 Pathogen[ P0C214] interacts with 5 human partners: {Q9H9G7;Q8NDV7;Q9UKV8;Q9HCK5;Q9UL18}

6772 Pathogen[ P03346] interacts with 4 human partners: {Q9H9G7;Q9UL18;Q9HCK5;Q9UKV8}

6773 Pathogen[ Q85601] interacts with 4 human partners: {Q9HCK5;Q9UL18;Q9H9G7;Q9UKV8}

6774 Pathogen[ P14079] interacts with 5 human partners: {Q9UKV8;Q9UL18;Q9H9G7;Q9HCK5;Q8NDV7}

6775 Pathogen[ P03383] interacts with 4 human partners: {Q9UL18;Q9HCK5;Q9UKV8;Q9H9G7}

6776 Pathogen[ P03410] interacts with 5 human partners: {Q9UKV8;Q9UL18;Q8NDV7;Q9H9G7;Q9HCK5}

6777 Pathogen[ P14075] interacts with 4 human partners: {Q9HCK5;Q9H9G7;Q9UKV8;Q9UL18}

6778 Pathogen[ P0C206] interacts with 5 human partners: {Q9HCK5;Q9UKV8;Q8NDV7;Q9H9G7;Q9UL18}

6779 Pathogen[ P03363] interacts with 5 human partners: {Q9H9G7;Q9HCK5;Q9UKV8;Q8NDV7;Q9UL18}

6780 [Cluster 617]GO:0030897+C cellular\_component [name] HOPS complex [def] "A multimeric protein complex that associates with the vacuolar membrane and is involved in homotypic vacuole fusion and vacuole protein sorting. For example, the *Saccharomyces* complex contains Vps41p, Vam6p, Pep5p, Vps16p, Pep3p, and Vps33p." [PMID

6781 Pathogen[ Q2Q067] interacts with 6 human partners:{Q9H267;Q9H9C1;Q9H8T0;Q86VS8;Q96ED9;P49754}

6782 Pathogen[ P0C214] interacts with 5 human partners:{P49754;Q96ED9;Q86VS8;Q9H8T0;Q9H9C1}

6783 Pathogen[ P03346] interacts with 9 human partners:{Q86VS8;Q9P253;P49754;Q9H8T0;Q96AX1;Q96ED9;Q9H9C1;Q9H267;Q9UJC3}

6784 Pathogen[ Q85601] interacts with 7 human partners:{Q86VS8;Q9P253;P49754;Q9H9C1;Q9H267;Q9H8T0;Q96ED9}

6785 Pathogen[ P14079] interacts with 10 human partners:{Q9UJC3;Q9H9C1;Q86VS8;Q96ED9;Q9H8T0;Q9H269;Q96AX1;Q9P253;P49754;Q9H267}

6786 Pathogen[ P03383] interacts with 5 human partners:{Q9H9C1;P49754;Q9H8T0;Q86VS8;Q96ED9}

6787 Pathogen[ P03410] interacts with 10 human partners:{Q9H267;Q9UJC3;Q9H8T0;Q86VS8;Q9P253;Q96ED9;P49754;Q9H9C1;Q9H269;Q96AX1}

6788 Pathogen[ P14075] interacts with 5 human partners:{Q9H9C1;Q9H8T0;P49754;Q86VS8;Q96ED9}

6789 Pathogen[ P0C206] interacts with 9 human partners:{Q9H8T0;P49754;Q86VS8;Q96ED9;Q96AX1;Q9P253;Q9UJC3;Q9H9C1;Q9H267}

6790 Pathogen[ P03363] interacts with 7 human partners:{P49754;Q86VS8;Q96ED9;Q9H9C1;Q9H267;Q9H8T0;Q9UJC3}

6791 [Cluster 618]GO:0061202+C cellular\_component [name] clathrin sculpted gamma-aminobutyric acid transport vesicle membrane [def] "The lipid bilayer surrounding a clathrin sculpted gamma-aminobutyric acid transport vesicle." [GOC

6792 Pathogen[ Q2Q067] interacts with 1 human partners:{P11142}

6793 Pathogen[ P0C214] interacts with 1 human partners:{P11142}

6794 Pathogen[ P03346] interacts with 1 human partners:{P11142}

6795 Pathogen[ Q85601] interacts with 1 human partners:{P11142}

6796 Pathogen[ P14079] interacts with 1 human partners:{P11142}

6797 Pathogen[ P03383] interacts with 1 human partners:{P11142}

6798 Pathogen[ P03410] interacts with 1 human partners:{P11142}

6799 Pathogen[ P14075] interacts with 1 human partners:{P11142}

6800 Pathogen[ P0C206] interacts with 1 human partners:{P11142}

6801 Pathogen[ P03363] interacts with 1 human partners:{P11142}

6802 [Cluster 619]GO:0019897+C cellular\_component [name] extrinsic to plasma membrane [def] "Loosely bound to one surface of the plasma membrane, but not integrated into the hydrophobic region." [GOC

6803 Pathogen[ Q2Q067] interacts with 4 human partners:{Q9HCH5;Q53G26;P63000;Q96EY1}

6804 Pathogen[ P0C214] interacts with 4 human partners:{P63000;Q9HCH5;Q53G26;Q96EY1}

6805 Pathogen[ P03346] interacts with 5 human partners:{Q9HCH5;Q8IYJ3;Q53G26;P63000;Q96EY1}

6806 Pathogen[ Q85601] interacts with 4 human partners:{Q53G26;P63000;Q9HCH5;Q96EY1}

6807 Pathogen[ P14079] interacts with 4 human partners:{Q8IYJ3;Q9HCH5;Q15075;Q96EY1}

6808 Pathogen[ P03383] interacts with 4 human partners:{P63000;Q9HCH5;Q96EY1;Q53G26}

6809 Pathogen[ P03410] interacts with 5 human partners:{Q9HCH5;Q53G26;P63000;Q8IYJ3;Q96EY1}

6810 Pathogen[ P14075] interacts with 4 human partners:{Q9HCH5;Q53G26;P63000;Q96EY1}

6811 Pathogen[ P0C206] interacts with 5 human partners:{Q53G26;Q8IYJ3;P63000;Q9HCH5;Q96EY1}

6812 Pathogen[ P03363] interacts with 4 human partners:{P63000;Q53G26;Q9HCH5;Q96EY1}

6813 [Cluster 620]GO:0031982+C cellular\_component [name] vesicle [def] "Any small, fluid-filled, spherical organelle enclosed by membrane or protein." [GOC

6814 Pathogen[ Q2Q067] interacts with 8 human partners:{P11166;P20073;P26678;Q13561;O75436;Q13409;P14672;O14576}

6815 Pathogen[ P0C214] interacts with 8 human partners:{P11166;O75436;O14576;Q13409;P14672;P20073;Q13561;P26678}

6816 Pathogen[ P03346] interacts with 8 human partners:{O14576;P20073;P26678;P11166;O75436;Q13409;P14672;Q13561}

6817 Pathogen[ Q85601] interacts with 7 human partners:{Q13409;P11166;O14576;O75436;P20073;P14672;Q13561}

6818 Pathogen[ P14079] interacts with 9 human partners:{P31751;P14672;P11166;Q13409;Q13561;P20073;P26678;O75436;O14576}

6819 Pathogen[ P03383] interacts with 5 human partners:{P26678;O75436;Q13561;P14672;P20073}

6820 Pathogen[ P03410] interacts with 8 human partners:{Q13409;Q13561;P11166;O14576;P26678;O75436;P20073;P33176}

6821 Pathogen[ P14075] interacts with 5 human partners:{Q13561;P20073;P26678;O75436;P14672}

6822 Pathogen[ P0C206] interacts with 8 human partners:{O14576;P11166;Q13409;Q13561;O75436;P14672;P26678;P20073}

6823 Pathogen[ P03363] interacts with 8 human partners:{P33176;Q13561;O75436;P20073;Q13409;P14672;P11166;O14576}

6824 [Cluster 621]GO:0000118+C cellular\_component [name] histone deacetylase complex [def]



"A protein complex that possesses histone deacetylase activity." [GOC]

6825 Pathogen[ Q2Q067] interacts with 27 human partners: {P56524;Q9BY41;Q9UKV0;Q9UBB5;Q13547;O94776;O15379;O60535;O75362;P48552;O75446;Q9UQL6;O43593;Q969S8;Q96BD5;Q96DB2;Q9P2R6;O60907;Q9UPW6;Q8WUI4;Q9Y6J9;Q86X95;Q9BZK7;P45973;O75376;O00422;Q03112}

6826 Pathogen[ P0C214] interacts with 27 human partners: {Q9Y6J9;Q13547;Q969S8;P48552;Q96DB2;O60907;Q03112;O75362;Q9P2R6;P56524;Q96BD5;O60535;O75446;O94776;O00422;Q9UKV0;O75376;O43593;O15379;Q9BZK7;P45973;Q9UPW6;Q9UBB5;Q8WUI4;Q86X95;Q9UQL6;Q9BY41}

6827 Pathogen[ P03346] interacts with 28 human partners: {Q969S8;Q9Y6J9;P45973;O60907;O75446;Q9UPW6;O75362;Q96DB2;O15379;P56524;O94776;O00422;O43593;P17542;Q9P2R6;Q13547;Q03112;Q9BY41;Q8WUI4;O75376;Q96BD5;Q9UKV0;Q9BZK7;P48552;O60535;Q86X95;Q9UBB5;Q9UQL6}

6828 Pathogen[ Q85601] interacts with 27 human partners: {Q9P2R6;Q969S8;Q9UKV0;Q96DB2;Q9UPW6;Q9BY41;O94776;Q96BD5;Q9UQL6;O60907;Q03112;Q9Y6J9;P45973;O60535;O75376;O75446;Q9BZK7;P56524;O15379;Q13547;O75362;P48552;O00422;Q8WUI4;O43593;Q9UBB5;Q86X95}

6829 Pathogen[ P14079] interacts with 24 human partners: {Q9UQL6;P48552;O15379;Q9UPW6;O00422;Q9BZK7;Q9Y6J9;Q96DB2;O75362;Q9UBB5;Q969S8;Q8WUI4;O60907;Q9UKV0;O75446;P45973;Q96BD5;Q9P2R6;Q9BY41;O75376;P56524;O94776;Q86X95;O43593}

6830 Pathogen[ P03383] interacts with 25 human partners: {Q9Y6J9;Q9UPW6;O94776;O75376;Q9UQL6;Q9P2R6;O75362;Q96BD5;O60907;Q9UBB5;O60535;Q03112;P45973;O00422;O15379;Q13547;Q9BY41;O75446;Q9UKV0;Q9BZK7;P56524;P48552;Q8WUI4;Q86X95;Q969S8}

6831 Pathogen[ P03410] interacts with 27 human partners: {Q9UKV0;Q03112;Q9BY41;O60535;Q9P2R6;O75446;Q9UBB5;P45973;O75376;Q9UPW6;Q8WUI4;Q9UQL6;Q969S8;O75362;O15379;P56524;Q9Y6J9;Q86X95;O94776;Q13547;Q9BZK7;O00422;Q96BD5;P48552;O60907;O43593;Q96DB2}

6832 Pathogen[ P14075] interacts with 25 human partners: {Q9BY41;Q9Y6J9;Q86X95;Q969S8;O75362;O75446;Q9P2R6;P56524;O00422;O94776;P45973;Q9UKV0;Q9UBB5;Q13547;O75376;Q9UPW6;O60907;Q96BD5;Q03112;O15379;Q9BZK7;P48552;Q9UQL6;Q8WUI4;O60535}

6833 Pathogen[ P0C206] interacts with 27 human partners: {P45973;Q9UBB5;O60907;Q96DB2;Q9UKV0;Q13547;O94776;Q9Y6J9;O00422;Q9P2R6;Q86X95;O75446;Q03112;O15379;Q8WUI4;Q9UPW6;O60535;Q9BZK7;O75376;O75362;Q9BY41;P56524;P48552;Q969S8;O43593;Q96BD5;Q9UQL6}

6834 Pathogen[ P03363] interacts with 25 human partners: {Q86X95;O60535;Q9BY41;Q03112;P45973;O15379;Q969S8;Q9BZK7;O75376;O60907;Q9UQL6;Q96BD5;O75446;P48552;O43593;Q9UKV0;Q13547;O00422;Q8WUI4;O75362;Q9P2R6;Q9UPW6;Q9Y6J9;O94776;Q9UBB5}

6835 [Cluster 622]GO:0072546+C cellular\_component [name] ER membrane protein complex [def] "A transmembrane protein complex that is involved in protein folding in the endoplasmic reticulum. In *S. cerevisiae*, it has six members

6836 Pathogen[ Q2Q067] interacts with 3 human partners: {Q9Y3B6;Q15006;O43402}

6837 Pathogen[ P0C214] interacts with 3 human partners: {O43402;Q9Y3B6;Q15006}

6838 Pathogen[ P03346] interacts with 3 human partners: {O43402;Q15006;Q9Y3B6}

6839 Pathogen[ Q85601] interacts with 3 human partners: {Q15006;O43402;Q9Y3B6}

6840 Pathogen[ P14079] interacts with 8 human partners: {Q15006;Q9P0I2;Q9BV81;Q9Y3B6;O43402;Q5J8M3;Q8N766;Q9NPA0}

6841 Pathogen[ P03383] interacts with 3 human partners: {Q9Y3B6;O43402;Q15006}

6842 Pathogen[ P03410] interacts with 7 human partners: {O43402;Q9NPA0;Q9BV81;Q15006;Q8N766;Q9Y3B6;Q9P0I2}

6843 Pathogen[ P14075] interacts with 3 human partners: {O43402;Q15006;Q9Y3B6}

6844 Pathogen[ P0C206] interacts with 3 human partners: {Q9Y3B6;O43402;Q15006}

6845 Pathogen[ P03363] interacts with 3 human partners: {Q9Y3B6;O43402;Q15006}

6846 [Cluster 623]GO:0005771+C cellular\_component [name] multivesicular body [def] "A type of late endosome in which regions of the limiting endosomal membrane invaginate to form internal vesicles. Membrane proteins that enter the internal vesicles are sequestered from the cytoplasm." [PMID]

6847 Pathogen[ Q2Q067] interacts with 3 human partners: {Q99816;Q5VYK3;P14672}

6848 Pathogen[ P0C214] interacts with 3 human partners: {Q5VYK3;Q99816;P14672}

6849 Pathogen[ P03346] interacts with 3 human partners: {Q99816;Q5VYK3;P14672}

6850 Pathogen[ Q85601] interacts with 3 human partners: {Q5VYK3;Q99816;P14672}

6851 Pathogen[ P14079] interacts with 5 human partners: {P14672;Q5VYK3;P11686;Q99816;P13693}

6852 Pathogen[ P03383] interacts with 3 human partners: {Q5VYK3;Q99816;P14672}

6853 Pathogen[ P03410] interacts with 4 human partners: {Q5VYK3;Q99816;P11686;P13693}

6854 Pathogen[ P14075] interacts with 3 human partners: {Q99816;P14672;Q5VYK3}

6855 Pathogen[ P0C206] interacts with 3 human partners: {Q99816;Q5VYK3;P14672}

6856 Pathogen[ P03363] interacts with 3 human partners: {P14672;Q99816;Q5VYK3}

6857 [Cluster 624]GO:0045335+C cellular\_component [name] phagocytic vesicle [def] "A membrane-bounded intracellular vesicle that arises from the ingestion of particulate material by phagocytosis." [GOC]

6858 Pathogen[ Q2Q067] interacts with 1 human partners: {P50995}

6859 Pathogen[ P0C214] interacts with 1 human partners: {P50995}

6860 Pathogen[ P03346] interacts with 2 human partners:{P50995;Q86Y82}

6861 Pathogen[ Q85601] interacts with 1 human partners:{P50995}

6862 Pathogen[ P14079] interacts with 1 human partners:{P50995}

6863 Pathogen[ P03383] interacts with 1 human partners:{P50995}

6864 Pathogen[ P03410] interacts with 1 human partners:{P50995}

6865 Pathogen[ P14075] interacts with 1 human partners:{P50995}

6866 Pathogen[ P0C206] interacts with 1 human partners:{P50995}

6867 Pathogen[ P03363] interacts with 1 human partners:{P50995}

6868 [Cluster 625]GO:0044300+C cellular\_component [name] cerebellar mossy fiber [def] "An axon arising from cerebellar projecting cells in the cochlea, vestibular nuclei, spinal cord, reticular formation, cerebellar nuclei and basilar pontine nuclei. Mossy fibers enter through all three cerebellar peduncles and send collaterals to the deep cerebellar nuclei, then branch in the white matter and terminate in the granule cell layer. Through this branching, a given mossy fiber can innervate several folia. Mossy fibers synapse on granule cells. The synaptic contacts are made at enlargements along the length of the mossy fiber called mossy fiber rosettes. The enlargements of the rosettes give the axons as \"mossy\" appearance in Golgi stained preparations." [NIF\_Subcellular

6869 Pathogen[ Q2Q067] interacts with 1 human partners:{000712}

6870 Pathogen[ P0C214] interacts with 1 human partners:{000712}

6871 Pathogen[ P03346] interacts with 1 human partners:{000712}

6872 Pathogen[ Q85601] interacts with 1 human partners:{000712}

6873 Pathogen[ P14079] interacts with 1 human partners:{000712}

6874 Pathogen[ P03383] interacts with 1 human partners:{000712}

6875 Pathogen[ P03410] interacts with 1 human partners:{000712}

6876 Pathogen[ P14075] interacts with 1 human partners:{000712}

6877 Pathogen[ P0C206] interacts with 1 human partners:{000712}

6878 Pathogen[ P03363] interacts with 1 human partners:{000712}

6879 [Cluster 626]GO:0015934+C cellular\_component [name] large ribosomal subunit [def] "The larger of the two subunits of a ribosome. Two sites on the ribosomal large subunit are involved in translation, namely the aminoacyl site (A site) and peptidyl site (P site)." [ISBN

6880 Pathogen[ Q2Q067] interacts with 13 human partners:{Q9BYD6;Q6NVV1;P40429;Q9NWU5;Q9BYC8;Q9UNX3;P61254;P62906;P62917;O76021;P36578;P18621;Q9P015}

6881 Pathogen[ P0C214] interacts with 12 human partners:{O76021;Q9NWU5;P40429;Q9UNX3;P61254;Q6NVV1;Q9BYC8;Q9P015;Q9BYD6;P36578;P18621;P62906}

6882 Pathogen[ P03346] interacts with 13 human partners:{O76021;P62917;Q9UNX3;Q9BYC8;P61254;Q6NVV1;Q9NWU5;P18621;Q9BYD6;P36578;P40429;Q9P015;P62906}

6883 Pathogen[ Q85601] interacts with 13 human partners:{Q9BYC8;Q9P015;Q9BYD6;P61254;Q9NWU5;P18621;Q9UNX3;P36578;O76021;P62917;Q6NVV1;P62906;P40429}

6884 Pathogen[ P14079] interacts with 12 human partners:{Q9BYD6;Q6NVV1;P40429;P18621;Q9UNX3;P61254;O76021;P36578;Q9BYC8;P62906;Q9P015;P62917}

6885 Pathogen[ P03383] interacts with 13 human partners:{P36578;P40429;Q9NWU5;P62917;Q9UNX3;Q9BYD6;Q9P015;P62906;P61254;Q6NVV1;P18621;Q9BYC8;O76021}

6886 Pathogen[ P03410] interacts with 13 human partners:{Q9P015;P62906;P18621;Q9NWU5;Q9BYD6;Q9UNX3;P36578;Q9BYC8;Q6NVV1;P61254;P40429;O76021;P62917}

6887 Pathogen[ P14075] interacts with 13 human partners:{O76021;Q9BYD6;P61254;P18621;Q9UNX3;Q9NWU5;P62917;Q6NVV1;Q9P015;P40429;P36578;Q9BYC8;P62906}

6888 Pathogen[ P0C206] interacts with 13 human partners:{P40429;Q9P015;Q9BYC8;P18621;Q9NWU5;Q6NVV1;P36578;O76021;Q9BYD6;Q9UNX3;P62906;P61254;P62917}

6889 Pathogen[ P03363] interacts with 13 human partners:{P18621;P36578;P61254;O76021;Q9NWU5;Q9UNX3;Q9BYC8;P62906;Q9P015;Q6NVV1;P62917;P40429;Q9BYD6}

6890 [Cluster 627]GO:0000138+C cellular\_component [name] Golgi trans cisterna [def] "The Golgi cisterna farthest from the endoplasmic reticulum\_ the final processing compartment through which proteins pass before exiting the Golgi apparatus\_ the compartment in which N-linked protein glycosylation is completed." [ISBN

6891 Pathogen[ Q2Q067] interacts with 2 human partners:{Q8IV36;O00189}

6892 Pathogen[ P0C214] interacts with 2 human partners:{O00189;Q8IV36}

6893 Pathogen[ P03346] interacts with 2 human partners:{Q8IV36;O00189}

6894 Pathogen[ Q85601] interacts with 2 human partners:{Q8IV36;O00189}

6895 Pathogen[ P14079] interacts with 2 human partners:{O00189;Q8IV36}

6896 Pathogen[ P03383] interacts with 2 human partners:{Q8IV36;O00189}

6897 Pathogen[ P03410] interacts with 1 human partners:{Q8IV36}

6898 Pathogen[ P14075] interacts with 2 human partners:{Q8IV36;O00189}

6899 Pathogen[ P0C206] interacts with 2 human partners:{Q8IV36;O00189}

6900 Pathogen[ P03363] interacts with 2 human partners:{Q8IV36;O00189}

6901 [Cluster 628]GO:0031901+C cellular\_component [name] early endosome membrane [def]

"The lipid bilayer surrounding an early endosome." [GOC  
6902 Pathogen[ Q2Q067] interacts with 9 human  
partners:{Q92783;Q8NEU8;O75886;Q9HCC9;Q92562;Q9Y4E1;O14964;Q9UKG1;Q86YV9}  
6903 Pathogen[ P0C214] interacts with 12 human  
partners:{Q9Y4E1;Q641Q2;O14964;O75886;Q86YV9;Q9UKG1;Q92562;Q08AM6;Q9HCC9;Q8NEU8;Q5SNT  
6;Q92783}  
6904 Pathogen[ P03346] interacts with 19 human  
partners:{Q13596;Q86YV9;O95405;O75886;Q96T51;Q92562;A8K0Z3;Q7Z3T8;Q8NEU8;Q9UNH7;P4256  
6;Q9Y5X2;Q9Y4E1;Q92783;O95219;Q9UKG1;O14964;O60749;Q9HCC9}  
6905 Pathogen[ Q85601] interacts with 12 human  
partners:{Q13596;Q08AM6;Q8NEU8;Q96T51;Q92562;O75886;Q86YV9;Q9HCC9;Q92783;O14964;Q9UKG  
1;Q9UNH7}  
6906 Pathogen[ P14079] interacts with 25 human  
partners:{O75886;Q86YV9;Q9UNH7;Q92562;Q9Y4E1;Q9UKG1;Q8NEU8;Q6BDI9;Q9H1K0;P42566;Q6VEQ  
5;Q92783;O95405;Q9HCC9;Q9Y5X2;Q96T51;Q9NQA3;Q15075;Q641Q2;O60749;Q13596;Q7Z3T8;A8K0Z3  
;Q969W9;Q5SNT6}  
6907 Pathogen[ P03383] interacts with 7 human  
partners:{Q8NEU8;O75886;Q9Y4E1;Q86YV9;Q92783;O14964;Q9HCC9}  
6908 Pathogen[ P03410] interacts with 26 human  
partners:{Q5SNT6;Q92562;O95405;Q969W9;Q13596;O60749;Q92783;Q9HCC9;O95219;Q9UNH7;Q08AM  
6;Q86YV9;Q641Q2;Q9Y4E1;Q9H1K0;Q6VEQ5;Q96T51;Q8NEU8;P42566;Q9NQA3;Q6BDI9;Q9UKG1;Q7Z3T8  
;O75886;A8K0Z3;Q9Y5X2}  
6909 Pathogen[ P14075] interacts with 8 human  
partners:{O75886;Q92783;Q8NEU8;Q9HCC9;O14964;Q86YV9;Q641Q2;Q9Y4E1}  
6910 Pathogen[ P0C206] interacts with 22 human  
partners:{O14964;Q9UKG1;Q641Q2;Q9UNH7;Q9HCC9;Q8NEU8;Q92562;Q9H1K0;Q96T51;Q13596;Q9278  
3;Q9Y4E1;O60749;Q7Z3T8;Q6VEQ5;O95405;Q5SNT6;P42566;O75886;Q86YV9;Q6BDI9;Q08AM6}  
6911 Pathogen[ P03363] interacts with 13 human  
partners:{Q9HCC9;Q9UNH7;O75886;O95219;Q92783;Q96T51;O60749;Q8NEU8;O95405;Q9Y4E1;O1496  
4;Q13596;Q9UKG1}  
6912 [Cluster 629]GO:0000347+C cellular\_component [name] THO complex [def] "The THO  
complex is a nuclear complex that is required for transcription elongation through genes  
containing tandemly repeated DNA sequences. The THO complex is also part of the TREX  
(TREX complex) that is involved in coupling transcription to export of  
mRNAs to the cytoplasm. In *S. cerevisiae*, it is composed of four subunits  
6913 Pathogen[ Q2Q067] interacts with 4 human partners:{Q96FV9;Q6I9Y2;Q13769;Q8NI27}  
6914 Pathogen[ P0C214] interacts with 4 human partners:{Q96FV9;Q13769;Q8NI27;Q6I9Y2}  
6915 Pathogen[ P03346] interacts with 4 human partners:{Q96FV9;Q13769;Q8NI27;Q6I9Y2}  
6916 Pathogen[ Q85601] interacts with 4 human partners:{Q13769;Q96FV9;Q8NI27;Q6I9Y2}  
6917 Pathogen[ P14079] interacts with 4 human partners:{Q8NI27;Q96FV9;Q13769;Q6I9Y2}  
6918 Pathogen[ P03383] interacts with 4 human partners:{Q8NI27;Q13769;Q96FV9;Q6I9Y2}  
6919 Pathogen[ P03410] interacts with 4 human partners:{Q8NI27;Q96FV9;Q13769;Q6I9Y2}  
6920 Pathogen[ P14075] interacts with 4 human partners:{Q13769;Q8NI27;Q6I9Y2;Q96FV9}  
6921 Pathogen[ P0C206] interacts with 4 human partners:{Q8NI27;Q13769;Q96FV9;Q6I9Y2}  
6922 Pathogen[ P03363] interacts with 4 human partners:{Q13769;Q8NI27;Q96FV9;Q6I9Y2}  
6923 [Cluster 630]GO:0010369+C cellular\_component [name] chromocenter [def] "A region in  
which centric, heterochromatic portions of one or more chromosomes form a compact  
structure." [PMID  
6924 Pathogen[ Q2Q067] interacts with 4 human partners:{O43482;Q9NSC2;P45973;P83916}  
6925 Pathogen[ P0C214] interacts with 4 human partners:{P83916;O43482;Q9NSC2;P45973}  
6926 Pathogen[ P03346] interacts with 5 human  
partners:{P45973;Q9NSC2;O43482;Q96GD3;P83916}  
6927 Pathogen[ Q85601] interacts with 4 human partners:{P83916;P45973;Q9NSC2;O43482}  
6928 Pathogen[ P14079] interacts with 4 human partners:{O43482;P45973;P83916;Q9NSC2}  
6929 Pathogen[ P03383] interacts with 4 human partners:{P83916;P45973;Q9NSC2;O43482}  
6930 Pathogen[ P03410] interacts with 4 human partners:{P45973;O43482;P83916;Q9NSC2}  
6931 Pathogen[ P14075] interacts with 4 human partners:{Q9NSC2;P45973;P83916;O43482}  
6932 Pathogen[ P0C206] interacts with 4 human partners:{P45973;Q9NSC2;P83916;O43482}  
6933 Pathogen[ P03363] interacts with 3 human partners:{P83916;P45973;O43482}  
6934 [Cluster 631]GO:0008280+C cellular\_component [name] cohesin core heterodimer [def]  
"The core heterodimer of a cohesin complex\_ a structure required for sister chromatid  
cohesion in eukaryotes." [GOC  
6935 Pathogen[ Q2Q067] interacts with 1 human partners:{Q14683}  
6936 Pathogen[ P0C214] interacts with 1 human partners:{Q14683}  
6937 Pathogen[ P03346] interacts with 1 human partners:{Q14683}  
6938 Pathogen[ Q85601] interacts with 1 human partners:{Q14683}  
6939 Pathogen[ P14079] interacts with 1 human partners:{Q14683}  
6940 Pathogen[ P03383] interacts with 1 human partners:{Q14683}  
6941 Pathogen[ P03410] interacts with 1 human partners:{Q14683}  
6942 Pathogen[ P14075] interacts with 1 human partners:{Q14683}  
6943 Pathogen[ P0C206] interacts with 1 human partners:{Q14683}  
6944 Pathogen[ P03363] interacts with 1 human partners:{Q14683}  
6945 [Cluster 632]GO:0033267+C cellular\_component [name] axon part [def] "A part of an  
axon, a cell projection of a neuron." [GOC  
6946 Pathogen[ Q2Q067] interacts with 3 human partners:{P62258;Q96EV8;Q9NRI5}  
6947 Pathogen[ P0C214] interacts with 3 human partners:{Q9NRI5;Q9HCE7;Q96EV8}

6948 Pathogen[ P03346] interacts with 4 human partners: {Q9NRI5;Q12840;P62258;Q96EV8}

6949 Pathogen[ Q85601] interacts with 4 human partners: {Q12840;Q96EV8;P62258;Q9NRI5}

6950 Pathogen[ P14079] interacts with 4 human partners: {Q12840;Q9NRI5;P62258;Q96EV8}

6951 Pathogen[ P03383] interacts with 3 human partners: {Q9NRI5;Q96EV8;P62258}

6952 Pathogen[ P03410] interacts with 4 human partners: {P62258;Q12840;Q9NRI5;Q96EV8}

6953 Pathogen[ P14075] interacts with 3 human partners: {Q9NRI5;Q96EV8;P62258}

6954 Pathogen[ P0C206] interacts with 4 human partners: {P62258;Q96EV8;Q9NRI5;Q12840}

6955 Pathogen[ P03363] interacts with 3 human partners: {P62258;Q9NRI5;Q12840}

6956 [Cluster 633]GO:0045323+C cellular\_component [name] interleukin-1 receptor complex [def] "A protein complex that binds interleukin-1\_ comprises an alpha and a beta subunit." [GOC]

6957 Pathogen[ Q2Q067] interacts with 1 human partners: {Q15654}

6958 Pathogen[ P0C214] interacts with 2 human partners: {Q9H0E2;Q15654}

6959 Pathogen[ P03346] interacts with 2 human partners: {Q9H0E2;Q15654}

6960 Pathogen[ Q85601] interacts with 1 human partners: {Q15654}

6961 Pathogen[ P14079] interacts with 1 human partners: {Q9H0E2}

6962 Pathogen[ P03383] interacts with 1 human partners: {Q15654}

6963 Pathogen[ P03410] interacts with 2 human partners: {Q15654;Q9H0E2}

6964 Pathogen[ P14075] interacts with 1 human partners: {Q15654}

6965 Pathogen[ P0C206] interacts with 2 human partners: {Q15654;Q9H0E2}

6966 Pathogen[ P03363] interacts with 2 human partners: {Q15654;Q9H0E2}

6967 [Cluster 634]GO:0001891+C cellular\_component [name] phagocytic cup [def] "An invagination of the cell membrane formed by an actin dependent process during phagocytosis. Following internalization it is converted into a phagosome." [PMID]

6968 Pathogen[ Q2Q067] interacts with 2 human partners: {P63000;Q9NRR3}

6969 Pathogen[ P0C214] interacts with 2 human partners: {Q9NRR3;P63000}

6970 Pathogen[ P03346] interacts with 2 human partners: {Q9NRR3;P63000}

6971 Pathogen[ Q85601] interacts with 2 human partners: {P63000;Q9NRR3}

6972 Pathogen[ P14079] interacts with 1 human partners: {Q9NRR3}

6973 Pathogen[ P03383] interacts with 2 human partners: {P63000;Q9NRR3}

6974 Pathogen[ P03410] interacts with 2 human partners: {P63000;Q9NRR3}

6975 Pathogen[ P14075] interacts with 2 human partners: {Q9NRR3;P63000}

6976 Pathogen[ P0C206] interacts with 2 human partners: {Q9NRR3;P63000}

6977 Pathogen[ P03363] interacts with 2 human partners: {P63000;Q9NRR3}

6978 [Cluster 635]GO:0000792+C cellular\_component [name] heterochromatin [def] "A compact and highly condensed form of chromatin." [GOC]

6979 Pathogen[ Q2Q067] interacts with 20 human partners: {O43463;Q9UBB5;Q9HC52;Q96T88;Q9Y6K1;O60535;O95503;Q9UER7;O95931;Q9UBC3;P26358;Q92769;Q9H4L7;P46100;O95983;Q13416;Q9NSC2;Q9HBD4;P45973;Q14781}

6980 Pathogen[ P0C214] interacts with 19 human partners: {Q9HBD4;Q9Y6K1;O95931;O60535;O95503;Q9H4L7;O43463;Q96T88;Q9UER7;O95983;P46100;P26358;Q92769;Q9NSC2;Q14781;Q13416;P45973;Q9UBB5;Q9HC52}

6981 Pathogen[ P03346] interacts with 21 human partners: {Q14781;Q9Y6K1;Q9HBD4;P45973;P46100;Q9UJQ4;O95983;Q9NSC2;Q9HC52;O95931;Q9UBC3;P26358;O43463;Q92769;Q9UER7;Q13416;O60535;Q9UBB5;O95503;Q96T88;Q9H4L7}

6982 Pathogen[ Q85601] interacts with 20 human partners: {Q9UER7;O95931;P26358;O95983;O95503;O43463;Q92769;P45973;O60535;Q9H4L7;Q9Y6K1;Q96T88;Q9HBD4;Q13416;Q9NSC2;Q9UBB5;P46100;Q9HC52;Q9UBC3;Q14781}

6983 Pathogen[ P14079] interacts with 17 human partners: {Q13416;Q9Y6K1;O95503;Q9HC52;Q9UBB5;Q9H4L7;O95931;P46100;P45973;Q9UBC3;Q14781;Q9UER7;Q92769;Q9UJQ4;P26358;O95983;Q9NSC2}

6984 Pathogen[ P03383] interacts with 17 human partners: {Q9HBD4;O95503;O43463;Q9HC52;O95931;Q9UBB5;O60535;P46100;P45973;Q9Y6K1;Q92769;Q9NSC2;Q9UER7;O95983;Q13416;P26358;Q14781}

6985 Pathogen[ P03410] interacts with 20 human partners: {Q9H4L7;O95503;O60535;Q13416;O95931;Q9UBB5;P45973;P26358;Q9UER7;Q92769;O95983;P46100;Q9UBC3;O43463;Q14781;Q9NSC2;Q9Y6K1;Q9HBD4;Q9UJQ4;Q9HC52}

6986 Pathogen[ P14075] interacts with 17 human partners: {Q14781;Q9NSC2;Q9Y6K1;Q9HBD4;O95503;O95931;P45973;Q9UBB5;P26358;P46100;O95983;Q92769;Q9HC52;Q13416;O43463;Q9UER7;O60535}

6987 Pathogen[ P0C206] interacts with 21 human partners: {Q9H4L7;Q92769;P45973;Q9Y6K1;Q9UJQ4;Q9HC52;Q9UBB5;Q9NSC2;O95983;P46100;O43463;P26358;Q9UER7;Q13416;Q14781;Q96T88;O95931;O60535;Q9HBD4;Q9UBC3;O95503}

6988 Pathogen[ P03363] interacts with 19 human partners: {Q9UJQ4;O60535;Q14781;Q9H4L7;Q9HC52;P45973;Q9UER7;Q9Y6K1;P46100;Q13416;Q9HBD4;O95931;O95983;P26358;O43463;Q96T88;O95503;Q9UBC3;Q9UBB5}

6989 [Cluster 636]GO:0042470+C cellular\_component [name] melanosome [def] "A tissue-specific, membrane-bounded cytoplasmic organelle within which melanin pigments are synthesized and stored. Melanosomes are synthesized in melanocyte cells." [GOC]

6990 Pathogen[ Q2Q067] interacts with 25 human partners: {Q9NQG7;P50995;P63104;P62258;Q7KZF4;P62826;P08133;P08238;P07900;Q9HCH5;P11166;P11142;Q06830;O75396;Q8WUM4;Q8NFW9;Q00610;P50991;P40121;P31946;P63000;P30047;P23284;P55209;P14625}

6991 Pathogen[ P0C214] interacts with 22 human partners: {Q9NQG7;Q8NFW9;P63000;P14625;P40121;P08133;Q9HCH5;P23284;Q7KZF4;Q06830;P11166;P62826;P23526;O75396;P50991;P30047;P31946;P50995;P35749;P13667;P11142;Q8WUM4}

6992 Pathogen[ P03346] interacts with 30 human  
partners: {Q9NQG7;P07900;P23526;P14625;P62258;Q9HCH5;P11142;Q93050;O75396;P13667;P62826;P30047;Q8IYJ3;P08133;Q7KZF4;P40121;P50991;P11166;P50995;Q8NFW9;Q06830;P31946;P63104;P49755;P55209;P08238;Q8WUM4;P63000;Q00610;P23284}

6993 Pathogen[ Q85601] interacts with 28 human  
partners: {Q9NQG7;P63104;Q8NFW9;P31946;Q00610;O75396;P50995;Q93050;P62826;P63000;Q9HCH5;Q7KZF4;P30047;P50991;P11166;P62258;P40121;P11142;P23284;P08238;P35749;P07900;Q06830;P14625;P08133;Q8WUM4;P23526;P55209}

6994 Pathogen[ P14079] interacts with 33 human  
partners: {Q16655;Q9NQG7;O14773;O43759;P57088;P11142;Q00610;P30040;P50995;Q92542;Q8IYJ3;P50991;Q9HCH5;P11166;P40121;P63104;O75396;P55209;Q8NFW9;P49755;P31946;Q8WUM4;P08238;P07900;P62258;P14625;Q93050;O95670;Q7KZF4;P23526;P62826;P23284;P30047}

6995 Pathogen[ P03383] interacts with 19 human  
partners: {Q9NQG7;P50995;Q00610;P31946;P63000;Q9HCH5;P07900;P55209;P62826;P63104;Q7KZF4;P14625;P11142;P23284;Q8WUM4;P62258;P08133;P08238;P30047}

6996 Pathogen[ P03410] interacts with 36 human  
partners: {Q00610;Q9NQG7;P62258;Q9HCH5;P30047;P50995;P63000;P11166;P08238;Q16655;P13667;O43759;P30040;P14625;P11142;Q93050;P07900;Q8NFW9;P08133;O75396;P62826;Q8IYJ3;O95670;P23526;P63104;P57088;Q92542;P55209;P23284;Q7KZF4;P27105;P40121;Q8WUM4;Q06830;P31946;P50991}

6997 Pathogen[ P14075] interacts with 20 human  
partners: {Q9NQG7;P11142;P23284;Q8WUM4;P08133;Q9HCH5;P08238;P55209;P07900;Q16655;P50995;P30047;P62826;P63104;P63000;P31946;Q7KZF4;P14625;Q00610;P62258}

6998 Pathogen[ P0C206] interacts with 35 human  
partners: {Q9NQG7;Q16655;O75396;P57088;P40121;O43759;P50995;Q8NFW9;P49755;Q7KZF4;Q00610;P50991;P62826;Q92542;P11166;P31946;P30047;P63104;Q8IYJ3;P08238;P08133;P63000;P62258;P07900;P23526;P23284;P35749;P55209;Q8WUM4;Q9HCH5;Q06830;P11142;P13667;Q93050;P14625}

6999 Pathogen[ P03363] interacts with 22 human  
partners: {P23284;Q9NQG7;P62258;P07900;Q8NFW9;P31946;Q00610;P63000;Q7KZF4;P50995;P50991;P63104;P08133;Q8WUM4;P55209;P30047;Q9HCH5;P62826;P08238;P40121;P11166;P11142}

7000 [Cluster 637]GO:0005732+C cellular\_component [name] small nucleolar ribonucleoprotein complex [def] "A ribonucleoprotein complex that contains an RNA molecule of the small nucleolar RNA (snoRNA) family and associated proteins. Most are involved in a step of processing of rRNA

7001 Pathogen[ Q2Q067] interacts with 6 human  
partners: {Q96DI7;O00566;Q96HR8;Q9NPE3;O00567;Q9Y2X3}

7002 Pathogen[ P0C214] interacts with 6 human  
partners: {Q9NPE3;O00567;Q96DI7;O00566;Q9Y2X3;Q96HR8}

7003 Pathogen[ P03346] interacts with 8 human  
partners: {O00567;O43818;O00566;Q9Y2X3;Q9NX24;Q96DI7;Q9NPE3;Q96HR8}

7004 Pathogen[ Q85601] interacts with 6 human  
partners: {Q96HR8;Q96DI7;O00566;Q9NPE3;O00567;Q9Y2X3}

7005 Pathogen[ P14079] interacts with 5 human  
partners: {Q9NPE3;Q9Y2X3;Q96HR8;O00567;O00566}

7006 Pathogen[ P03383] interacts with 6 human  
partners: {O00567;Q9NPE3;Q96HR8;Q9Y2X3;O00566;Q96DI7}

7007 Pathogen[ P03410] interacts with 7 human  
partners: {Q9Y2X3;Q9NX24;O00567;O43818;Q9NPE3;Q96HR8;O00566}

7008 Pathogen[ P14075] interacts with 6 human  
partners: {O00566;O00567;Q96HR8;Q96DI7;Q9NPE3;Q9Y2X3}

7009 Pathogen[ P0C206] interacts with 6 human  
partners: {Q9NPE3;O00567;Q9Y2X3;Q96HR8;Q96DI7;O00566}

7010 Pathogen[ P03363] interacts with 8 human  
partners: {Q9NX24;Q9Y2X3;O00567;O43818;Q9NPE3;O00566;Q96HR8;Q96DI7}

7011 [Cluster 638]GO:0016020+C cellular\_component [name] membrane [def] "Double layer of lipid molecules that encloses all cells, and, in eukaryotes, many organelles\_ may be a single or double lipid bilayer\_ also includes associated proteins." [GOC

7012 Pathogen[ Q2Q067] interacts with 473 human  
partners: {Q9BTW9;Q92783;P04156;Q7Z3C6;Q01844;Q96TC7;Q8TCS8;Q9NQG7;P30153;Q9Y4R8;Q4G0F5;Q8IUD2;Q01082;O15027;P30281;Q96J02;Q9UL45;P46108;Q9UH99;P50402;O00213;O75351;O75161;O94973;P09917;P31749;P52948;Q7LBR1;O43920;O00186;O14786;Q9Y6D6;Q9Y6Q5;Q99747;Q10567;Q96HA1;P20700;O15126;Q9HAU4;P55957;P24385;Q9Y5V3;P56377;Q92681;O75340;Q8N9R8;Q13033;O60664;O43747;Q9H5J4;O95782;Q14315;Q9H444;Q8NI35;Q14160;Q9NPB6;Q96B97;O00291;Q92572;O43493;O60784;P42167;Q9H2K2;Q6RW13;P41220;Q14678;Q08209;Q13352;P31040;O14579;Q8N1N5;Q7Z6B0;Q9BYG5;O95886;Q8N3V7;Q9NSC5;P55735;O75694;Q8WXE9;Q86XL3;P53675;Q99816;Q92797;O95295;Q5SQN1;Q9H1H9;Q96JI7;Q9BRQ6;Q9P0M2;Q9P299;Q9Y244;Q9UJG1;Q96B49;Q96DC7;Q8WV92;Q9NZD8;Q9BXM0;O60437;P56181;Q9UJY4;Q9BRG1;Q96CM4;P19367;O75081;Q9NZJ0;Q9NZI6;Q9BXW4;Q15046;A8CG34;O75489;Q9UJY5;A8MVW5;P30279;Q92870;Q8IV36;Q5T1C6;O60238;Q9NYJ8;Q9UP83;P14373;Q8N6F7;O43752;Q9P1A6;O14662;Q13884;P18850;P83436;Q8WUH2;O95999;Q96EY5;P36956;Q8N1F7;Q8N1B4;Q96EV8;Q6NZI2;Q86WV1;Q8N7J2;Q15172;Q9H8Y8;Q9HCH5;P29966;Q96CN9;Q9UBQ0;P13073;Q7L804;P48444;Q03252;Q08378;P67775;Q7Z3B4;Q14457;P42704;O14910;Q5JTC6;O00189;Q330K2;Q7Z614;P53801;Q9NTG7;Q5BJF2;Q8NEU8;Q8NF91;O14907;Q96N16;P63241;Q96JS3;P12270;Q86UE4;Q9NR22;Q9H267;P63010;Q9BV57;Q96PC3;O15049;Q9BZE9;O96000;Q9NZP6;P11166;P32189;Q86UL8;Q15629;P61077;O95049;P23528;Q92575;P63165;Q8N9A8;O75886;Q9UND3;Q8IX03;O75323;O75381;A6NDB9;Q99569;Q9BW60;O60711;O95178;Q96IF1;Q96CW1;Q07021;Q96G23;P61923;Q12959;P63146;O43745;O15162;O95721;Q9UDY4;O95159;O43264;P04264;O75396;O15127;Q9UKC9;P11532;Q9GZR5;Q9BVI4;Q

07157;Q6X4W1;Q15388;P49901;P78352;Q9UJM3;Q5HYI7;Q05084;P26678;Q9UBF2;P40337;Q9BW27;Q9BZW7;P11171;Q13561;Q8TEML;Q96MT3;Q9BPZ7;Q9H8T0;Q07666;Q9GZY8;Q9UPX8;Q14746;Q9BU61;Q8N1I0;O43678;Q92624;Q9HCC9;Q00610;Q9HB19;P61966;O76095;Q8WYR1;O14641;P46939;Q92539;P25063;Q5VIR6;Q15437;A5D8V6;Q15643;O60220;P53992;Q14232;Q9Y5J6;Q92843;Q9UKJ5;Q92562;O95486;Q9BVL2;Q9NRL3;O14713;O75843;Q9HD42;P29474;Q99732;P08865;Q96JB2;Q9UDY2;Q9HAP2;O94855;Q9HD36;P82094;Q00587;O14656;Q9BUL8;Q99550;Q9U1L1;Q99848;Q68CJ9;Q9UQN3;Q9UKX7;Q9NVD7;O75306;Q6IS14;Q9UN37;Q8IWX2;Q14677;O95810;Q96H20;P62424;P04406;Q00005;Q9H0R1;Q9H7P6;Q5TCQ9;Q13439;Q08379;Q9NZZ3;Q9Y4E1;Q9NR77;O60291;O00198;Q9BVC6;O60299;Q9BXS5;Q15599;O94850;Q96JE7;Q9P0J0;Q6P9B9;Q9UK41;P12956;P21912;Q9NZU7;Q14739;P50570;Q9NX63;Q9UQF2;O75122;Q9H4A6;Q8TAC9;Q92621;O95476;P54920;P62072;E9PQ53;Q9Y3E7;O75436;Q9NRI5;Q96QK1;P78395;Q99962;A1L3X0;Q8IZQ1;Q68DX3;Q16186;Q13228;Q9H9H4;Q96CF2;Q9BVT8;Q9Y5J7;P53618;Q8WV24;O15504;O95996;O43615;Q6NUQ1;Q12983;Q9HB03;P08235;P04818;Q9HC62;O14920;O95271;Q717R9;O15155;Q9NR09;Q8N490;Q9NP79;O95831;Q13425;Q99623;P09497;O60763;Q6DKK2;O00161;P80723;O14925;P60953;O75154;Q9POU1;P40855;O43318;Q495M9;O95487;O43633;O14964;Q9Y4P8;Q6ZVN8;Q9NUS5;P27986;Q5T2W1;Q14244;O75558;O96018;Q9BQE4;Q93052;Q9H204;P18848;P63000;Q9BZR8;O0165;P35606;Q8PTW3;Q3SYG4;Q96SW2;Q9GZV4;Q96NA2;Q9NUQ3;P49006;P30047;P35232;O14512;Q9UBX3;Q8WXS3;Q9Y678;Q9H4A5;Q9BX66;Q99689;Q96E16;Q9UKG1;Q86YV9;Q676U5;Q8WWR8;Q9BVN2;Q9UPT5;P11802;Q92597;P09496;Q9BYG4;P14672;Q5UE93;Q9P2W9;P06733;Q9BXF6;Q8ND76;Q9BUH8;P31689;P27815;P61586;Q86VN1;Q92556;P22681;O60888;Q9Y250;Q9P0V3;Q96A26;Q9HCI5;Q13023;P49754;Q86YD1;Q8NFH5;Q6MZT1;Q15436;Q9H9E3;Q96EY1;Q9NRR3;Q8TC71;O75674;Q96JJ3;P23508;Q8NEZ2;Q9Y3A3;Q9BT92;Q9NZ52;Q7Z699;Q9BRK4;Q13367;Q9ULD2;Q14693;Q9NUP9;O14490;P24539;O60716;Q9NX95}

7013

Pathogen[ P0C214] interacts with 558 human partners: {P22681;O00198;Q8WWR8;P50440;Q14457;Q6X4W1;Q9BPZ7;P29474;Q96CW1;Q14410;Q6NUQ1;Q9NRR3;Q9UM00;Q9HA82;P18850;Q96J02;P61923;O14490;O00213;Q9BUH8;Q8IWX2;P55735;Q8ND76;Q8N9A8;Q9UDY4;O75306;Q9NZZ2;Q8IX03;Q14739;P41220;O14910;P49006;Q8WV28;Q14746;O60346;O75161;Q9NXB9;A7E2Y1;Q16864;P09917;P49754;Q05932;Q68DX3;P63000;O14786;O43678;Q6IS14;Q9HAU4;P29966;O95810;Q9Y5V3;P22695;Q99643;Q14409;P04818;Q9P299;O14681;Q9H4A6;Q8NFH5;Q96CF2;Q8N2H4;Q8N6F7;Q86YD1;Q99747;Q15388;P49901;P16157;P04264;Q9UPX8;Q92624;P56556;Q9NRR8;Q00005;Q6RW13;Q13505;O75351;P53992;O43264;Q8NI35;Q9H9E3;Q86XF0;Q9NRI5;P30153;Q75NE6;Q96JJ7;P62993;P59780;Q9UJY5;Q9P0V3;Q16186;O00159;Q9BRK4;O60716;Q7Z699;P22735;Q08379;Q9UKJ5;Q9UPT5;Q6DKK2;Q92934;Q5TCQ9;O95295;Q86U90;P27815;Q9GZV4;Q9Y4E1;P28331;Q8TEML;Q9BU61;O43920;Q96QK1;Q8TAC9;Q9UM54;Q96MF6;O14579;P40855;Q9NP79;Q9BTW9;Q13023;Q9H444;O60220;Q495M9;Q8N183;Q15599;Q9BV57;P17568;P62166;O00189;Q13367;Q9HD42;P11802;O15056;P53618;Q9P0M2;O94921;A8MVW5;P30405;O60888;Q92797;Q8IV36;P61586;Q13033;P35606;Q9BXW4;Q9UND3;O00186;Q9Y512;P48444;Q15172;P29728;P34897;Q9GZR5;Q9Y244;Q9BX66;Q8N1F7;P55957;Q99623;Q9NUS5;O14907;O75694;P42704;Q14678;Q96NA2;Q9UJM3;Q641Q2;Q13515;Q9BXM0;Q9BVI4;P83436;O14964;P60953;Q676U5;O14656;Q86WD7;Q9HCH5;Q68CJ9;Q6NZI2;Q9P1A6;O60299;O43493;O43745;O95721;O75381;O75886;O96018;Q86YV9;P54920;O15127;Q9BUL8;Q9UKX7;Q08378;Q14232;P78395;Q9Y6Q2;O75340;O60437;Q9NSC5;P20700;Q86SQ9;P24385;Q9UQN3;P08865;Q9Z614;Q9UK41;Q13884;P30414;Q9Y6I3;Q99807;Q99962;Q9H0R1;P32189;P63241;Q9UKG1;P46060;Q15436;Q96TC7;Q01844;O43318;P36542;Q96MT3;Q8WW22;Q86UE4;O95049;Q8WXG1;Q16718;Q92562;Q9H0M0;O75843;A8CG34;Q01082;Q9NZP6;Q9HB03;P61077;Q9NUQ3;Q96DC7;P62072;P11166;P53701;Q9UH99;Q7L804;Q9BT92;Q9Y250;Q96CN9;Q5T2W1;Q14315;Q5SQN1;Q9UBX3;P11532;Q9HCE7;P82094;Q9BZE9;Q9NLP7;Q9UJ68;P23786;P78352;Q9BY43;Q9H7P6;Q9HB19;P63010;O95298;O15049;Q10567;Q7LBR1;P11168;P18848;O75122;O14925;Q92681;Q92597;Q99732;Q92572;P53675;Q9NPNB6;Q96EY5;Q8IVI9;Q9H8Y8;Q8NF91;Q8IZQ1;Q9BW27;Q13425;Q03252;O14613;Q9UBF2;O95487;P12074;Q8TDB4;Q92539;P49257;Q08AM6;Q07666;A1L3X0;Q9H8T0;P63165;Q9UJY4;Q9NZD8;O00165;Q8N9R8;Q9HCC9;Q14244;Q8WYR1;O15126;Q9NTG7;Q9P0J0;Q09104;O15162;Q9BRG1;O14641;P50402;Q9NSK7;P56377;Q9Y2H0;Q6MZT1;Q9Y4R8;Q15437;O95999;O43615;P30281;P24539;P46939;Q96SW2;Q9Y4P8;Q8NEU8;Q9UQC2;Q86XL3;Q9Y3E7;Q08209;Q96MP8;Q9HD36;Q92556;Q93100;Q9NZJ0;Q13352;Q15643;Q8N490;Q9BUK6;Q96G23;Q9Y5J9;Q9UL45;Q8TCS8;P40337;Q9NXG0;Q99689;O95278;Q9BQQ3;Q96PC3;Q9U1L1;Q3SYG4;Q9ULD2;P19367;O95886;Q99550;P67775;Q5UE93;Q99848;Q9BZW7;Q9NZ52;Q9Y5J6;Q7Z6B0;O60711;Q9BVT8;Q8NEZ2;P06733;Q9NZU7;Q96CM4;Q9NX95;P13073;Q9UKC9;Q9BXF6;Q96EV8;P25063;Q9NR77;O95202;O43752;Q9BRT3;O94850;Q8N1B4;O60763;Q96JS3;Q12959;Q14160;Q9H2K2;Q9UDY2;Q5JTH9;Q9UQF2;Q8WXS3;Q9Y3E7;Q99HD26;O60784;Q9BQI5;Q12983;O96000;Q92843;Q99816;O43747;O95476;Q86WV1;Q9NV92;E9PQ53;Q99766;O75436;O60291;O95182;Q9NZI6;Q5VIR6;O94973;Q9NUU7;Q9H204;Q6ZVN8;Q9H4A5;Q9H9E1;Q96G01;Q9Y6Q5;Q9BVN2;P30279;P04156;P10909;Q9UBQ0;Q15629;O75489;O15504;Q13439;Q9BVC6;O60238;Q9BYG5;P09497;Q9HCI5;Q3ZCQ8;Q8N1I0;Q9Y5J7;O14521;Q9NZZ3;Q9UP83;Q13615;O75396;Q96Q06;Q9Y6D6;Q5SNT6;Q9UHJ9;Q9UMR2;Q9NR09;Q9UI09;Q8N7J2;O60664;Q86WV6;Q9HC62;Q9BW60;P62424;P80723;Q8WXE9;P61966;O76083;P09496;Q8WWM7;P12270;O60884;Q96GD0;Q96B49;P23508;Q96H20;P50570;Q5T1C6;O95782;A5D8V6;Q05084;Q9NVD7;Q9POU1;Q9UN37;Q92575;Q9Y3A3;O75558;Q8WV24;Q8TC71;Q96EK6;Q9BVL2;Q8N3V7;P14373;O14512;Q92783;Q13228;Q9UJG1;P35232;O43633;O75674;Q9BQE4;Q9H9H4;P46108;Q15046;Q5HYI7;P30047;O95271;P22830;Q07157;Q9BRQ6;Q96JE7;P21912;Q8IUD2;P53680;Q9Y678;Q9H902;P14672;Q96J39;Q96JB2;Q8WUH2;Q13561;P27986;Q17RY6;P26678;Q9GZY8;P46020;Q9H3K2;Q7L5Y9;Q7Z3B4;Q9H492;Q5JTC6;O14920;Q9BXS5;O00161;P04406;O75323;P56181;O95178;O15155;O14713;O15027;O75081;Q9NYJ8;O95486;Q86VN1;O00291;Q96B97;Q96EY1;P63146;P12956;P11171;P52948;Q92870;Q92621;P31749;Q9BYG4;Q9NR22;Q4G0F5;Q14677;P80303;Q8N944;O75154;Q8PTW3;Q9HAP2;Q7Z3C6;Q9P2W9;O94855;Q330K2;Q96E16;Q14693;Q9NRL3;Q9BZR8;Q96N16;Q96HA1}

7014

Pathogen[ P03346] interacts with 690 human partners: {O95166;Q13439;Q15172;Q8TEML;Q13425;O60437;Q92681;Q13596;Q9NSC5;Q9NZJ0;Q9BW60;Q96G01;Q9NQG7;Q9NRI5;O14925;Q9H4A5;Q86UT5;O60664;P30281;Q96CN9;Q86YV9;Q6P9B9;Q96J02;Q8N3V7;O14490;Q4G0F5;O00213;Q9H0H0;Q3YBM2;Q969H4;P61966;P55735;Q99828;Q8ND76;Q5VIR6;Q86XT2;Q9BU61;O43752;Q96QK1;Q14746;O60346;Q96HJ5;O95405;Q15438;Q9P0M2;O95159;Q96B97;Q14739;P31040;P56181;Q86UR1;P50570;P02549;Q9H115;Q00005;O14908;Q7Z3C6;Q9HAU4;Q9UPT5;Q6

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Pathogen[ Q85601] interacts with 537 human partners { Q8TEM1;Q13367;Q14457;Q99569;Q9H492;Q13596;Q96QK1;Q9NQG7;O14925;Q9H4A5;Q68CJ9;Q99816;O60664;P30281;Q96CN9;P30405;Q96J02;O14490;Q9Y250;P20700;O00186;Q9NRL3;O00213;Q8IWW2;P54920;O75161;Q86WV6;Q15643;O15126;Q9Y4R8;O43493;Q14746;O60346;P53675;Q92575;Q9UPX8;O75843;Q9NZU7;Q9P0J0;P22681;P11168;Q9HAU4;Q9UPT5;Q6X4W1;P16157;Q9NP79;Q9NVD7;P14373;O15027;P48444;Q00610;Q08AM6;P31749;P62993;P24539;P24385;P31689;Q9NUP9;P09496;Q9UQN3;O75154;Q95831;P63146;Q5T2W1;Q15388;Q9NR22;Q07666;O14910;Q6NUQ1;P36405;Q8WV24;Q13884;Q8N2H4;Q9H7P6;Q7L804;Q9NYJ8;A1L3X0;P46010;Q9UJY4;O60888;Q9BQQ3;O00165;Q96H20;O75396;Q96RT1;Q9UQC2;Q17RY6;Q9GZV4;O60437;Q5JSH3;Q9HD36;Q8N9R8;Q96CW1;Q15629;P09917;O14579;Q95487;Q9P253;A8CG34;Q96DC7;Q13439;Q9BYG5;P23508;Q95295;Q8TAC9;Q9P2D0;O14713;Q95049;Q95166;Q941220;O60763;Q14244;Q96JE7;Q9UBP0;Q9UBX3;O75306;Q96MP8;Q8WV92;Q9BX66;Q86YS3;Q9BUL8;Q96Q06;Q00005;Q9Y283;Q15036;Q9UP83;P62072;Q9BXS5;Q8NEU8;Q9BPZ7;Q9NUS5;Q96SW2;P40337;Q9BRG1;P56377;Q99962;Q9Y5J9;Q330K2;Q9Y5J6;A8MVW5;Q86UL8;P18848;Q9HC62;Q9P299;O15155;Q8IV36;Q8ND76;Q9UHJ9;P21912;Q93050;Q9UDY2;Q9H0R8;P27815;Q8TDB4;P30622;Q9P1A6;O60220;Q7L5Y9;Q8N1F7;Q93052;Q96T51;P63000;Q9Y5J7;Q9BVN2;Q9NZJ0;Q9BXM0;O43815;P80303;Q12981;Q9UMR2;O43264;Q9BTW9;Q12772;Q9BRQ6;Q9H9H4;Q86VN1;Q9HCH5;Q8WXE9;Q96JB2;O43747;P30153;P61923;P83436;Q9H1H9;Q15172;Q03252;Q8WW22;P06733;Q08378;P11532;Q18ZS6;P46108;Q9NP61;O43633;O60884;P62424;Q15046;Q7Z614;O43678;P11171;Q5VIR6;P49006;P49754;Q00182;Q7LBR1;Q92562;P56181;P63241;Q86SQ9;Q8WUH2;Q9Y244;P12270;Q9BT92;Q9NSK7;Q96JJ3;Q10567;P32189;O14786;Q9P2W9;Q4G0F5;O75886;Q9UJY5;Q15436;P80723;Q9BZE9;Q9NZP6;O75694;Q95278;Q9BV57;O43745;P61077;O00198;Q96FZ7;Q8WTV3;O15504;P30047;Q86YV9;Q9UQF2;Q99623;P11802;P27986;Q9H267;Q12840;Q7Z3C6;O43752;Q96MT3;Q08209;Q9UKC9;Q96CF2;O60291;O60716;Q9NRR3;Q96000;O75122;Q8N6H7;Q13515;Q14677;Q86WV1;Q8NI35;Q9BXW4;Q6MZT1;Q9UH99;Q86XL3;Q9Y512;Q9H2K2;Q9BW27;Q92624;O60711;Q13352;O00159;O75351;Q8N6F7;Q9H8T0;Q9UK41;Q9H9E3;Q92681;Q9BW60;P11166

7015

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7016

Pathogen[ P14079] interacts with 1546 human

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 06;Q9BSE4;Q5VW36;Q86TL2;Q9UPX8;Q92843;Q96CM4;Q9GZM5;Q9GZY6;A0ZSE6;O43731;O15503;Q8N85  
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7017

Pathogen[ P03383] interacts with 419 human

partners: {Q14244; Q17RY6; O75323; Q9BVL2; Q9BRK4; Q14457; Q92681; O96018; O15504; Q13228; Q96CW1; Q9NQG7; Q9UJY4; Q68CJ9; O60716; P13073; P27986; Q7L804; O00213; Q8IWIJ2; Q6RW13; Q9Y5J7; Q9P1A6; P56377; O15126; Q330K2; Q92621; Q14746; Q7Z3C6; Q96TC7; Q00610; P29474; Q9H9E3; Q9Y244; O14579; A6NDB9; Q8WXS3; Q14678; Q92572; Q13515; Q96JI7; Q7Z6B0; Q14160; Q9NZJ0; Q9UP83; Q9NX63; Q13884; P55735; Q86UE4; O53618; Q96HA9; P40337; Q9NZD8; Q9BJSK0; P62072; P83436; Q9Y9678; P04156; Q8N1B4; Q6NZI2; P54920; O14713; Q96H20; O95487; O15162; Q96JS3; Q43264; P12270; O14920; Q8TDB4; Q9UB61; Q13439; P19367; Q5T2W1; O95295; P41220; Q9HD26; Q9NRI5; A8CG34; Q3YBM2; Q9BW60; Q8TAC9; P52948; Q8WXE9; Q9H7P6; P31749; Q9GZR5; P31040; Q9BPZ7; Q13023; O96000; Q00005; Q9UJM3; P62424; Q9Y3E7; Q9BUN8; O95886; Q9NUQ3; Q96SW2; Q86U90; O43678; O60299; Q99689; Q8NEU8; Q10567; Q8NFH5; O14925; P60953; Q9H5J4; Q9NZZ3; A8MVW5; O43920; Q9BRQ6; O43615; Q8IV36; P55957; Q9UH99; O75489; O00186; Q86WV1; P25063; Q9NX95; Q6MZT1; Q92797; Q9H204; P49006; Q9GZV4; O75886; Q96MT3; O95831; Q9BZE9; Q8WWM7; Q8N1F7; Q9BZW7; P63000; Q96A26; Q96JB2; Q9BXM0; O14490; Q8NEZ2; Q99816; O95486; Q9HCH5; P24385; Q8N1N5; O00165; Q8TCS8; P30153; P67775; Q9Y6D6; Q9UQF2; Q7Z614; Q9Y4R8; Q8TEM1; O60220; P53675; Q9Y4E1; Q9NUS5; P49754; Q13352; O43493; Q92597; P63241; O00189; P31689; Q6X4W1; Q12983; P11802; P46939; O43318; O75306; Q96EV8; Q9UIL1; Q15436; O95178; Q8N2H4; Q9NZP6; O95049; Q96CN9; Q6ZPB5; Q9BV57; Q92870; P61077; Q96B49; Q9H1H9; Q07157; P11168; Q8WTV3; P30279; Q8NHG7; Q75NE6; Q15643; Q05084; Q14C87; Q96E16; O00291; Q15629; Q9BVC6; Q9BW27; O75081; O60238; Q99747; O75558; Q9NTG7; Q96N16; Q9H8T0; Q9UK41; Q7LBR1; O75843; P20700; O43633; Q6ZVN8; Q9Y5J6; P61586; O14641; Q9BQE4; Q9NVV5; P63010; Q9UDY4; P08865; O43747; Q15437; O94855; A1L3X0; Q9BVI4; Q9UJY5; Q9NR22; Q9BYG5; Q15388; Q9BXF6; Q9H444; Q9NRR3; P49901; O60711; Q15046; P78395; Q8IZQ1; Q9Y5V3; Q8N6F7; Q5HYI7; O75381; Q8N7J2; Q9H9H4; Q6DKK2; P63165; Q6P9B9; Q9HB03; Q99732; Q6UWF3; Q9BQ15; Q99848; Q9NPB6; P04406; O43745; P29966; Q676U5; Q9BT92; P53801; P11532; Q5JTC6; O95782; Q9BTX1; Q5BJF2; Q9NR77; P26678; Q86YV9; Q9UBF2; Q9BRG1; Q07666; Q8ND76; O95810; O94921; O94850; Q9UJG1; P35232; O95999; Q9H4A6; Q9HD42; Q5TCQ9; P04264; Q9P0U1; O15027; O60784; P50402; Q92783; E9PQ53; Q3SYG4; O75436; P17152; Q9NZI6; Q9UKC9; Q9NSC5; Q8IX03; Q9UKJ5; Q9BVT8; Q9HCI5; O15127; Q96HA1; Q9NRL3; Q96QK1; Q9Y4P8; Q9BUL8; Q96JE7; Q13367; Q8TC71; Q14232; Q717R9; Q14677; Q8N9A8; Q03252; Q9P0V3; P23508; O75161; Q9NR09; Q9UND3; P32189; Q9HC62; P53992; Q07021; Q8WWR8; P11169; Q68DX3; P82094; Q8WYR1; P42704; O00198; O43752; Q8WUY8; P80723; Q5UE93; O14907; P62952; Q9HAP2; Q9UM00; Q8N3V7; O14681; Q6NUQ1; P63146; P23528; Q13561; O60831; Q96C03; Q13033; Q00587; Q9UKX7; P18848; P18850; O76095; Q01844; O00161; O14512; Q9BXS5; Q9P0J0; O95271; Q9H8Y8; P30281; O15049; Q8IUD2; P09497; Q9UBQ0; Q92624; Q8N490; Q9UPT5; Q9NXJ8; Q96Q06; O60437; P14672; Q9Y3A3; P06733; O60664; O94973; Q9GZY8; Q9Y5Y9; Q8N9R8; O14964; Q9C0H9; Q8WV24; Q7Z3B4; Q86VN1; Q5T1C6; Q9HB19; Q9UN37; P56181; P30047; P24539; P78352; Q16186; Q92539; Q96DC7; Q96EY5; O75694; Q9NQS1; Q9Y2H0; Q96EY1; O75154; O14910; P40855; Q9UQN3; Q96NA2; Q99623; Q86YD1; Q92575; Q9UDY2; Q08379; P12956; Q5VIR6; Q13425; Q9BVN2; Q9H4A5; P22732; Q9HCC9; Q14693; Q8WUH2; Q9Y3P8; Q9NZ52; Q9Y250; Q13505; Q9BYG4; O60888}

7018

Pathogen[ P03410] interacts with 1535 human partners: {Q6MZT1; O60711; Q9UDY4; A6NL05; Q8N4H5; Q9H354; O75192; A1L3X0; Q00610; Q9BVN2; Q9P1A6; P69849; Q8TDI8; Q96HP8; Q9HC07; Q9BRT3; O14786; Q9NQG7; Q86UP9; Q96LZ7; Q8NC96; Q5JTH9; O95168; P09496; Q99848; Q9NQ90; Q53S58; Q5SNT6; Q9HC24; Q92562; Q9NXF1; O43674; O75949; Q9Y6Q5; Q8NBR0; O14569; Q9UQC2; A0PJX8; Q5SRD1; O95292; B84157; Q96TC7; A4FU28; Q9HCH5; Q86UT5; Q9NS86; Q9HC47; Q9Y2Q5; Q86VE9; Q7Z3B4; P49069; Q4G0N0; O95563; O00203; Q96DS6; Q5JSH3; Q9BW27; Q96KX2; O96018; Q7L804; Q9UBK5; O75781; Q9H6X4; Q717R9; Q96HJ5; Q9Y5L4; Q96HD9; Q6NZI2; Q8IZS6; O95782; O71037; P30047; Q674R7; Q9Y512; Q0D2K0; Q15041; Q9NRP9; P82094; Q6IEE7; Q96PC3; Q68CJ9; O00519; Q71RC9; P36956; Q8ND61; O75154; Q96CW1; Q9HBM0; Q9BW72; A6NFA0; Q7L0L9; Q12767; Q9BZE9; P27986; Q9H0C3; Q969F2; P61165; O14910; Q9H267; P56556; Q8IWB1; Q86XT9; Q96KJ9; P22732; Q9NQG1; Q6N075; Q6P9G4; Q02221; Q9NTG7; Q5W0B7; Q12893; Q9BUB7; Q9BZ97; P49901; Q96B33; P61550; P61565; Q9Y2R0; Q8NCS4; A5D6W6; O15255; O95405; Q5UE93; Q969W9; O14681; P17568; Q8IWIY9; Q9UKH3; Q5GH73; O14920; Q8WWF3; O14828; Q8N8D7; Q9BVI4; Q8N2C7; A6PVL3; A6NH52; Q86WI0; Q9NV12; Q8TCS8; P62072; Q9GZR5; Q96RT1; P80303; Q96B49; Q96DZ9; Q14739; Q5VZ72; Q14C87; O43633; Q5E7R7; Q96GC9; Q8NCG7; Q8TF08; Q9NRL3; Q8N511; Q7Z614; Q6PEY1; Q9NZ43; Q9H0V9; Q5BIV9; Q86WV1; Q9UEY8; Q8NBN3; Q9Y239; Q9UPT5; Q5VSG8; Q9H1C7; P30622; Q8NHS1; C9JH25; Q99766; Q5GH77; Q8WYR1; Q9BXS5; Q8N6Q3; Q9NX77; Q96KF7; Q13190; Q99442; P30279; Q8TAZ6; Q69384; Q12983; Q8N8Y2; Q3V5L5; O43903; Q9BQQ3; Q9UBF9; Q8N6I4; Q15388; P53680; Q96SW2; Q8NFX9; O75787; Q8N7P3; Q9Y3A0; Q8N6L1; Q5VUB5; Q13561; Q9H5Q3; P47756; Q8N3V7; Q8N1Y9; Q8NBT3; Q86TY3; Q9BRV3; Q96JB2; O60610; O43597; Q8TAC9; Q96NF6; Q9H7P6; Q9UP83; Q8WZ55; Q9H902; Q9H115; Q5SSG8; Q86XT2; Q9GZY8; Q86T03; Q96FT05; Q9BVC6; Q9NPA0; Q9NQ60; Q9UKX7; O60896; Q6UXV1; Q96B86; P60468; Q7Z5B4; Q96FM1; P49257; O95178; Q8TBQ9; Q5T2W1; Q9Y2J0; Q96A57; Q9Y4R8; P20963; Q3B7T3; Q6UE05; Q6PIZ9; O95473; Q9H9H4; Q6UX68; P36542; Q9NW97; P60059; P29728; Q96CP7; Q6UX71; Q8TEW8; Q9BXM0; Q08209; P63000; Q13596; Q7Z699; Q9Y6I3; Q8N1N5; P11166; P49006; Q9NPD7; O60895; Q1HG43; O75380; Q9BQA9; Q86TL2; Q96ER9; O94855; O43678; Q96005; Q9NWW5; Q8TDW5; Q96N19; Q9UJG1; Q9NZ52; P22333; Q969X5; Q8N661; Q9NVZ3; P63165; Q5GH72; Q96N68; P25705; Q9H5J4; Q9NP79; P56378; P04264; Q17RQ9; Q9NUS5; Q96GE9; P61567; Q13445; O15259; P0C7Q5; Q8N1W0; B7ZAQ6; Q4L180; Q86UW1; O43736; O75351; O14548; Q902F9; P53992; Q9NS93; Q96B42; Q9Y2V7; Q9H1H9; Q6ZM3; O14656; P15954; Q8IX03; Q9P299; Q8N8J7; Q0JRZ9; Q8N292; Q3SYG4; O43427; O75674; Q96SA4; P46020; Q8WY22; A8MVW0; Q15172; O43747; P41220; Q945M9; Q6UXD1; P16157; Q9Y5V7; Q9NVV5; O95867; P15941; Q70J99; Q9Y2B2; Q9BU23; Q9H3E2; O00198; Q8N4C9; P18848; Q8N138; Q567V2; Q6ISU1; Q8IVJ8; Q6UWW9; P0DI80; Q12422; O75843; P0C2S0; Q96A33; O43920; P61421; Q12959; Q9UI09; Q8IYT2; Q86U90; Q9BUL8; Q9UH99; Q5T4T1; Q16655; O60749; Q13505; Q8IV36; Q2T9K0; Q7Z7N9; Q9NSK7; O00400; Q9P0V3; Q5VW36; Q96Q45; Q8WW34; O94905; Q5JXX7; P0C6T2; Q53GA4; Q8WWA1; Q147U7; Q9Y228; Q86WV15; Q8N6F7; P05141; O96000; O43759; O60299; Q9HBL7; O00165; P48444; O43561; P52948; P02686; Q96AW1; P11532; Q14410; B9EJG8; Q8TAM2; O15504; Q5TCQ9; Q7Z5G4; Q9NRQ2; Q9BSE2; Q5TZJ5; Q8N1B4; Q9BPZ7; Q6P1Q0; Q9NRR3; Q96Q06; Q9Y5Y5; Q9Y3P4; Q496H8; P10645; Q9NPB0; Q9Y5U4; Q14210; Q9H9K5; Q10567; Q9H841; O14713; Q9BV81; Q9NZW5; Q96HH4; P11168; Q9NUB4; O00501; Q6IEE8; O75324; Q969E2; Q8IWW1; P35606; Q7Z6B0; Q8WV28; O60716; P06733; Q9Y2H0; Q5SQN1; Q9BJSK0; P36405; Q5JRM2; Q9HAB3; Q8N307; Q6DNX4; Q14457; Q13425; P28289; Q92572; Q8IVI9; P07919; A6NC51; Q92545; O96011; P20700; O00159; Q68DU8; Q13515; P33947; Q9Y6F6; Q9BYI3; Q99732; Q53RY4; Q9H813; Q13145; Q5SNT2; P59646; Q07021; Q9NX00; Q99445; Q08378; Q9P2W9; Q9NQG6; Q9GZY4; Q9NS64; Q9H939; A6NC78; Q9H8T0; A2RRL7; Q9NPL8; P20674; P09912; Q8N2U0; O14908; O75694; O14662; Q93050; Q9

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4LDR2;Q9NQS1;P27815;Q9NQA3;O94973;Q9H9E3;P35611;Q96HS1;Q6BDI9;P56377;Q9NRR8;Q96EV8;P18859;Q8N6L7;Q8IWD5;Q86XL3;O60888;Q96EY1;Q8NH9Y;Q2WJG8;A2RUG3;Q15012;P11277;Q6P9B9;Q99747;Q9UKG1;O60437;Q93045;P30405;Q92543;Q9BTX1;P29966;O95471;Q9N2J8;Q9BX66;Q9H4A5;P34897;O14683;Q8IWW2;Q9UJM3;Q9H9E1;Q9BRQ5;Q92621;Q7Z3T8;P24588;Q9BVW6;Q5QFB9;Q86V85;Q5JRA6;Q8N7S6;O60238;Q9Y6Q2;Q13352;Q5TC84;O75886;Q9NZP6;Q9UJY4;Q8N8A4;P56134;P46060;O95070;Q9BYG4;Q8N3R9;A8K0Z3;Q8WWR8;Q9NX95;Q8N944;Q9BVT8;Q96PB1;Q8NEA5;O43505;P40337;Q9NRQ5;P61077;P10606;Q9Y4J8;O95487;Q96LD1;Q8NFR3;Q8NBV4;Q9BYG5;Q8NHG7;Q7Z4Y8;Q8IZQ1;Q9HBU9;Q13323;P10909;Q2TAP0;Q9Y5X2;Q8WVI0;P12074;Q96DC7;Q9H665;Q86UK5;Q9UBF2;Q96AX1;O95182;A6NGA9;Q86WG5;O75431;Q6P499;Q13021;Q3MIW9;Q9H6Q3;O95049;Q99569;Q3MIR4;Q9NZJ0;O14641;Q8N0W7;Q08379;Q8BRL7;P54920;Q99689;Q6IS14;Q96MG2;Q9NZV5;P22735;Q96BM0;Q6NW34;O75616;Q16635;Q8NFR91;Q8NCQ3;P14406;P53801;Q96HE8;Q92870}

7019 Pathogen[ P14075] interacts with 513 human partners: {P60953;O43674;Q5BIV9;P11169;Q8N490;Q9BQI5;Q14457;P42704;Q92797;Q9P0V3;Q9NQG7;A6NFC5;P06733;Q92545;Q3SYG4;Q9P0U1;Q9BQE4;P29474;O00213;O14925;Q52LD8;P63165;Q13505;P09497;O95049;Q15643;P53801;Q68DX3;Q9UJY4;Q14746;Q96HJ5;Q9H5J4;Q12983;P31689;Q96MT3;Q96JB2;Q96EY5;P56181;O94777;P62952;Q8ND61;P11532;Q00005;Q99932;Q9Y5J9;Q9BVC6;Q96JE7;Q9BW60;P55957;Q92681;Q9HAP2;P12956;Q8NEJ4;Q96B49;Q96FX8;Q5SRI9;P09496;Q9H1H9;O14681;Q86YD1;Q9NRQ5;Q8IWW1;Q9BUL8;Q8N3V7;Q9NX63;Q8N9A8;P49006;Q13884;O96018;Q8N1B4;O75323;O60888;Q96JS3;Q9BVT8;O94973;P62072;Q8N2H4;Q07021;P11802;Q96A26;O96000;Q96J86;Q9H9E3;Q96CW1;O75558;O75886;Q8WYR1;O95182;O00186;Q9NR22;Q14160;P08865;Q16186;O95295;O43677;Q07157;Q86UE4;P78395;O76095;Q8N9R8;O43752;O43427;Q96HP8;O15127;Q2LD37;P40855;Q10666;Q7LBR1;O15162;Q9H444;Q9BXM0;A8CG34;O14713;Q96N16;Q9BV57;Q9BVN2;P80723;P30281;P30279;Q96C03;P82094;Q14C87;P53675;Q15388;Q13425;P32189;Q6X4W1;Q8WWR8;A8MVW5;Q9UBF2;Q6NUQ1;Q8IV36;Q9Y6F6;Q9NS64;O95886;Q8N6L1;Q13561;Q93100;P20700;Q92783;Q8N1F7;Q9NP79;Q99747;Q01844;Q8IZQ1;Q96TC7;Q9NZS2;P41220;Q9UBQ0;Q01456;Q5UE93;P54920;Q86VN1;Q676U5;Q9BYG4;Q92870;Q9HC5;Q13515;Q6M2T1;Q9Y244;P13073;Q15070;P19367;Q7L5Y9;Q96NA2;Q9Y250;P22732;Q9HB03;Q9UKX7;Q9HD26;Q9GZV4;Q75NE6;Q86U90;Q7Z614;Q8IUD2;O95159;Q9UK41;O15027;Q86VI4;Q5TCQ9;Q15629;Q9GZY8;Q8NEU8;P63241;Q5TLC6;O15126;Q9NZD8;Q86TL2;P31040;Q9Y6D6;P12270;Q9UJG1;Q9UDY4;Q9NZB2;O43920;P53992;P50402;Q9BT92;Q96JI7;Q17RY6;O75306;Q9NZP6;Q92621;P61077;Q8NEZ2;Q96AQ2;P55735;Q9BYI3;Q96H20;Q9NRI5;O75081;Q8WV24;Q9Y4P8;Q5HYI7;O75381;Q9Y3E7;Q00587;Q92624;P23528;O95298;O00461;Q9H9H4;Q9BTX1;Q9NUQ3;Q9H4A5;A1L3X0;O00291;O43678;P35232;Q86WV1;P17152;Q96SW2;Q96HA1;Q6NZI2;O60831;Q9BPZ7;Q9H204;O14920;Q8N1N5;Q16655;Q9BW27;O43493;Q9HCC9;O00189;P56378;Q96D05;P31749;O95487;O95810;Q8TAE6;Q8WXS3;P04406;Q92539;Q96MF6;Q8N7J2;Q9H8T0;Q6ZVN8;O14964;Q08379;Q9BU61;P60602;O43505;Q9UP83;Q9Y512;P49754;Q3YBM2;P14406;Q9NVML1;O14641;B2RUZ4;Q14232;P29966;O75161;Q15437;Q8NHG7;Q7Z6B0;P26678;Q9NRL3;O14910;Q9NTV7;O60299;Q9UJM3;P04264;Q9UJH9;Q7L804;Q8NC54;Q9NQS1;Q99623;Q8TEM1;Q2TAP0;P53618;O95831;Q9NSC5;O14523;Q9UQN3;Q9UND3;P46939;Q9HC62;Q8WXE9;Q99732;Q330K2;O60238;Q96HA9;O95782;O43318;Q99848;P30047;Q9BTD3;P27986;Q14677;Q9BUN8;Q8IWW2;Q86YV9;O14907;O60220;O15255;Q8IXM6;Q92575;O43745;Q9UKC9;Q9H8Y8;Q9NZZ3;O14613;Q9NR77;O14490;Q8WUY8;Q9Y3P8;Q9HB19;O43747;Q1HG44;Q96DC7;P18848;Q15436;P61586;Q9Y3A3;O95999;Q92572;Q9UILL1;Q99766;Q9NV29;Q5JTC6;Q9UK28;P24539;Q9NRR3;Q6UWF3;Q13228;P67775;Q5VIR6;Q5T2W1;P30153;E9PQ53;P63000;Q8WVI0;O75436;Q9NZI6;Q9GZR5;O00161;Q8WWM7;Q68CJ9;Q8TC71;Q9BRQ6;Q8TDB4;Q14789;P0DJ07;P63010;Q0VDE8;Q13439;Q8TCS8;Q96Q06;Q9Y4R8;P23508;Q9BRK4;Q05084;Q9Y678;Q6ZPB5;Q5HS97;Q9P1A6;Q96EV8;Q9NV92;Q9BXF6;P58511;O15504;Q9H7P6;Q9UDY2;Q717R9;Q986M3;P78352;Q9BV14;Q9UH99;Q9NR09;O75843;Q8TAC9;Q8ND76;Q9HD42;O75192;Q9BRG1;P56377;Q8NBM0;O60711;Q9BYG5;Q9Y5J7;Q8WUH2;P11168;Q15011;Q9BZW7;Q14678;Q9Y2H0;P40305;Q92597;Q8NE00;Q969W0;P56385;P24385;O94855;P63146;Q9BXS5;O75154;Q6P9B9;Q9NPB6;A6NDB9;Q9BVL2;Q53HI1;Q9NVV5;Q99816;O60437;Q13352;Q496H8;Q6RW13;O14512;O75489;Q9C0H9;O43264;Q9Y287;Q9NZJ0;O60716;O95271;Q9BUB7;Q15046;Q9NX95;O94921;P40337;Q9Y5V3;Q96EK6;P14672;O95178;P62424;P49901;P42167;O75694;Q9UKJ5;Q13033;O15049;Q641Q2;Q9NRR8;O95486;Q9H4A6;Q7Z3B4;O00165;P50440;Q6UWI2;Q9P0J0;Q9Y5J6;P54826;Q9UQF2;Q10567;Q96CN9;Q8WY22;P83436;Q9NS69;O75477;O94850;Q9Y4E1;Q8NFM5;Q96E16;Q9NUS5;Q96EY1;Q8N661;Q00610;P11171;Q8N6F7;Q9UJY5;Q8N944;Q13367;P81408;Q7Z3C6;Q9HCI5;O43615;O00198;O60664;O60784;Q6DKK2;O43676;Q9UM00;Q03252;Q8WTW3;Q14244;Q9UN37;P56248;Q9BZE9;Q9BSK0;P55808;P18850;Q8IX03;Q5BJF2;P25063;Q9UPT5;Q13023;Q14693;Q99689;Q96QK1;O14579;Q9NYJ8;Q9Y5U8}

7020 Pathogen[ P0C206] interacts with 893 human partners: {Q13439;O95271;Q5BJF2;Q9NQC7;Q8TF30;Q7Z3C6;Q4L180;Q96TC7;O75340;P06733;Q96A33;Q6UXU6;O14964;Q9BRG1;O14662;Q9UKC9;Q92597;P53680;Q2LD37;Q8IVJ8;P63010;Q9NQG7;O60716;Q9UJZ1;O75477;Q9Y3A3;Q14789;Q92621;Q5SRI9;Q9BVK6;Q99848;Q4G0F5;P46939;Q9NUP9;O14579;P56181;Q92539;Q16655;Q6M2T1;Q01082;O60291;O43933;O15127;Q9Y5L4;Q69384;Q9UKG1;Q9Y678;Q15437;P53675;Q96D05;Q9UN37;P50402;Q92575;Q9HB19;Q68DH5;Q587I9;Q9UM54;P78352;Q9BVI4;Q9Y5J6;Q9UM00;Q9GZV4;Q96G23;Q9H4A6;P53701;Q96RT1;Q9UDY4;P83436;O94973;O75192;P09917;Q8NEZ2;Q96DC7;Q6IEE7;O14828;Q6IS14;P40305;O14920;Q14739;Q92556;Q99828;Q8IXM6;Q9NQ90;Q9H44;Q9UHA4;P31749;Q7LBR1;Q8NC54;P17677;Q9BXW4;Q9UBV8;Q9NUQ3;O75396;Q9NWS6;Q9UL45;Q8NFM5;Q93100;Q9Y2V7;Q9NUU7;P47756;Q9Y6Q5;Q99766;O00291;Q8TCS8;Q96HA9;Q9UBP0;Q92572;Q9NZ42;Q96KR4;Q9H6Q3;Q8TC71;O60784;Q969F2;Q16186;Q641Q2;Q9UDW1;Q15019;Q9Y3E7;Q9UNH7;P57088;Q9Y6Q2;Q9BZR8;Q9Y5U8;Q8N3V7;Q9BT92;P04156;Q8NC96;Q9HAU4;Q9NZT2;Q96MT3;P53618;Q9P299;O43747;O43920;Q9HCC9;Q9BXF6;Q9Y287;Q9H9E3;Q8NEU8;O14524;Q9NVV5;O94855;P30153;P39656;Q3SYG4;P62166;Q9HD36;Q92681;Q8TAM2;Q15700;Q9UJH9;O95810;Q10567;O43427;O14653;P54920;Q6NUQ1;Q5TC84;Q92562;O43815;O75161;Q8N6L7;Q9BU61;Q96B49;P18850;Q330K2;O60664;Q07021;O43759;O95164;Q96HJ5;Q5SQN1;Q96FX8;Q9NRS6;P78395;O95721;Q7Z5B4;Q13023;Q8N944;Q5JTH9;O95049;Q86XL3;O75154;O14521;Q5VXU3;Q9NRR8;Q9NV92;O75381;Q9Y6D6;Q9NVD7;O75306;Q14315;A6NDB9;P12074;O15258;P56589;Q96IF1;Q7Z3B4;Q96MF6;P49901;Q9Y2J0;Q13615;O95202;P08865;Q13228;Q9HB03;Q13515;P14317;O14713;Q9H492;Q9UHM9;Q15172;Q96CX2;Q8NHG7;O43752;O75787;P30279;Q96B97;Q9H0R1;P14406;Q9H8T0;Q9BTW9;Q14232;P49754;O43493;Q0VDE8;P36542;Q96DX8;Q96JI7;A5D6W6;O75081;Q9H1K0;Q8NE86;Q5TCQ9;Q9H6L5;Q9NRR3;Q8N2C7;O95999;Q8IWW1;P61966;Q9UILL1;Q8W

XE9;Q99623;P04264;O14613;Q6P1Q0;Q9NS64;Q14678;Q9BUK6;O95630;Q9HC62;Q96HA1;Q9Y5V3;O95867;Q9UQN3;Q96J02;P80303;O95182;O95070;Q9H8Y8;Q75NE6;Q96T51;Q8N661;O60220;O94850;B2RUZ4;Q9BYG5;Q14457;O43318;Q86VN1;Q96JN2;P49755;Q6UW56;O95886;Q5JRA6;Q9BUB7;P29728;Q96CM4;Q9UJY4;Q00610;Q5H9R4;Q9UDY2;Q96JB2;Q9H9E1;Q9Y5Z9;O60831;Q8IUD2;P55735;Q9Y5J9;O94777;Q99550;P34897;Q01844;Q99962;Q15035;Q14746;Q9UBX3;Q9UKJ5;P36956;Q13596;Q13021;Q99816;Q5HYI7;Q14699;Q86WV6;Q16891;Q8TAE6;Q9BZW7;O75558;Q92542;Q07666;Q9UI09;Q9H0H0;Q6ZNB6;Q96A26;Q8NFR3;O60884;O60299;Q8N3I7;Q92783;Q9Y4E1;Q9H1H9;P67775;Q969E2;Q9UQF2;P30622;P1166;Q9NZU7;P19367;Q1HG44;P50542;O95996;P10636;P32189;O95476;Q9Y4P8;Q15036;Q03252;Q6P3W7;O94901;P27986;Q8N912;Q96N16;Q9BZE9;Q9Y512;Q9UI14;P62993;Q9UJG1;P53801;Q8NBJ4;Q9Y5J7;P23786;P09496;Q8N6F7;Q5T2W1;Q5SRD1;Q9H5J4;Q8IZQ1;Q9Y283;Q9NP61;Q9NR77;Q9UK41;Q9Y587;O14786;Q92624;O95298;A6NDV4;Q9H9H4;P61586;O75069;P22695;Q8NC56;Q9UL01;Q14244;Q9H4A5;Q9NX95;Q49AQ9;Q86UT5;Q92934;P30047;O14907;O00161;Q9H3K2;Q96S66;Q99689;P46020;P59780;Q8N2H4;O75122;O60437;O95292;A8MW95;Q9NZD2;Q9UBQ0;Q8N3R9;Q7Z3G6;O00213;O60238;Q9NRL3;Q92797;Q8TEW0;O43615;Q9Y2H0;Q96SN7;P46060;P11168;Q9H7P6;Q3ZCQ8;Q15599;Q9Y4J8;Q6DKK2;Q6ZM3;O14681;O60749;Q13884;Q12983;Q8TEM1;Q9BUZ4;Q8IYJ3;P16157;A8MVW5;Q7Z3T8;Q9NX63;Q1HG43;Q8N6M3;P27815;Q6VEQ5;Q9UK28;Q9UKX7;Q96T49;Q5T2T1;Q8WWB7;Q96SW2;O14490;Q8IV36;Q717R9;Q8NF91;Q6PJW8;Q92843;Q9Y3P8;O00483;Q9BQE4;A2RUG3;Q15041;P25063;Q9UP83;Q8WW22;Q15070;Q9ULU8;Q6UWF3;A5D8V6;Q7Z7G2;Q9BXS5;Q7L5Y9;O15155;Q6RW13;O96018;P22681;Q9NVM1;Q93045;Q9NR09;O00165;Q9Y3D7;Q9HA82;P17568;P63000;Q9NSC5;O95486;A8MZ97;Q969M3;Q8WTW3;Q5VIR6;Q8N490;Q8WU20;O95831;Q9NS69;Q96H20;Q6ZVE7;Q9NV52;Q13425;P09497;P35232;Q53HI1;Q9Y6D5;P80723;Q3YBM2;Q9P0M2;Q9UPT5;P35606;O00264;Q9BVC6;Q9H3E2;O75694;O00159;Q96EV8;Q9HAP2;Q969W0;Q9UKH3;Q8N357;P40855;Q8N7J2;Q99445;O95178;P33947;O60888;Q15011;Q9UJY5;O15049;P48059;Q17RY6;Q14160;Q96JE7;Q86XT2;O00461;Q99569;Q6NZI2;O14656;P50440;Q495M9;P49006;P24390;P49257;O95487;Q86WV1;Q9Y6F6;A6NFC5;O60763;Q96CW1;Q9BTX1;Q9BQA9;O00198;Q9UJ68;O43491;Q6ZVN8;O14908;P61570;Q99807;Q8WUY8;O94905;Q9BUN8;Q9NRI5;O95278;Q9GZP9;P13073;Q8N9R8;Q8IZS6;P16452;Q9P0U1;O95405;Q5T1C6;Q8N135;Q96JJ3;Q9Y2B2;O43633;P04406;Q96AX1;Q9UPX8;Q96HP8;P48444;Q13352;Q9ULD2;P10909;P22830;Q9BUL8;Q08378;O14925;Q92870;Q9NPB6;Q6UWH4;P31040;P24539;Q9BPZ7;Q9BUH8;P17152;Q9NYJ8;Q9Y6I3;Q9H665;Q9Y3A0;Q13505;Q9BXM0;Q9BV57;Q12893;Q9BQI5;Q8WUH2;Q5SNT6;Q8N205;Q6X4W1;Q15388;O43736;P61565;O14910;A6NH52;O43597;Q9NQX7;Q9Y4R8;Q8N1N5;Q12840;Q96B42;Q6ISU1;Q9UKY0;P60953;Q96EK6;O95295;Q7Z614;Q96E16;Q9NR22;Q9NZJ0;Q9C0H9;P04818;Q96CF2;Q9HB21;O95782;Q9P0J0;Q14677;Q9NPR9;Q9Y5K8;Q5VVP1;Q13561;O43731;Q16864;P36405;Q96MP8;Q99747;P29474;Q9BX66;Q9UJM3;O96011;P62072;Q9H0R8;P0CG08;Q12981;Q15162;Q9BY43;P06703;O43678;P42566;P63241;Q9NPD7;Q676U5;Q9NZI6;Q8N1I0;Q8WWR8;Q07157;Q95489;O15260;Q9UBF2;A6NNC1;Q8NFJ9;Q9P0V3;O15436;P20292;Q8WXH0;Q96JS3;Q9NXG0;Q08495;Q9HC24;Q86YD1;Q969X5;Q5H9S7;Q86U90;Q8NFQ8;P74672;P56381;Q9BVT8;Q96CN9;Q5UE93;Q6BD1UE4;P11277;Q08379;Q15629;O14617;Q9P253;Q96GD0;Q9GZR5;P20700;Q9H204;P42704;Q8NA58;Q8WXS3;Q00765;O75843;Q9HD42;O15255;Q9BXK5;Q15849;Q96NA2;O60346;Q08209;Q6ZPB5;Q5T6X4;Q96RQ1;Q8ND76;P26678;Q96B86;Q9UN42;Q6UWI2;Q9GZY8;Q9NZP6;O15504;Q9BQQ7;P61077;Q99932;P46108;Q9NP79;A8CG34;Q96QK1;Q5JSH3;Q9NZZ3;Q6P9B9;Q7L804;Q9UMR2;P53992;Q96FZ7;P63165;Q15363;Q12912;P11532;E9PQ53;Q86UL8;P42167;Q13033;Q9Y5U9;O75886;Q9BSK0;Q9UND3;P14373;Q9NYZ1;Q8WY22;Q9BQQ3;Q9NS86;Q8N1B4;Q9HCH5;Q141220;O14512;Q86YV9;Q6PEY1;Q9NTG7;O75351;Q7Z6B0;Q8TAC9;Q13424;Q9P2D0;P54826;Q96ER9;P87889;Q9NPL8;Q8WWM7;P30405;Q8ND61;O60711;Q8N6H7;P21912;Q96Q06;O14609;Q9BRQ6;O15126;Q8WV92;Q96PC3;Q9Y6I8;Q8WXG1;Q9HBM0;Q969H4;Q15643;Q9H8M1;Q96EY1;Q14693;Q9Y244;O15027;P12956;Q86YS3;P23528;Q00005;Q86T03;O95159;Q9N1F7;Q9UQC2;Q68DX3;O75674;Q14DG7;O95876;O43264;Q86YT6;O00189;Q9HCI5;O96000;O43745;P62952;Q6BDI9;Q5BIV9;P18848;Q8N4H5;A6NC78;Q12959;Q99732;Q14C87;Q9H2K2;P22735;O43674;Q9NP85;Q9HD26;Q9NQS1;P56385;Q86SQ9;P11802;Q9BYI3;Q9H4E7;P60602;Q9Y250;Q93052;O95868;Q7Z699;Q12772;Q9H902;Q8IVI9;O94921;Q9BTV4;Q9NZB2;O95166;Q9H267;Q86WC4;Q8IWI2;Q13367;P08235;Q9P2W9;P56556;P31689;O95171;Q05084;Q02221;Q96S06;Q96C03;Q9BYG4;Q9BQJ4;P50570;Q8N8V4;P29966;Q99640;Q0P670;P82094;Q9BW27;Q9BRT3;Q9GZU3;Q8IX03;Q969L2;O75323;Q96EY5;O00522;Q9P1A6;P55957;Q9UKS6;Q969G9;Q8N201;Q9BVL2;P56377;O75425;Q93050;P11171;Q9NSK7;Q2TAP0;Q902F8;O76095;O43505;Q86UB9;O00186;P61923;Q68CJ9;A1L3X0;Q5JTC6;P40337;Q96LZ7;Q9Y284;P12270;Q9NUS5;P23508;B7ZAQ6;Q05932;P63146;P24385;Q96G01;Q08AM6;Q15046;Q8WV24;Q9BRL7;P62424;Q9BW60;Q9BVN2;Q8TDB4;P30281;Q00587;Q8TAZ6;Q8WYR1;Q8N9A8;Q15436}

7021

Pathogen {P03363} interacts with 530 human

partners: {Q8N6F7;O60763;P22681;P49754;O75069;Q9Y3P8;Q9BUL8;Q14789;Q12959;P12956;Q9NQG7;O60888;P62952;P18848;Q16186;P29474;P46060;O75081;P55957;Q8N3V7;O43493;P46939;Q9HCC9;O14907;O95049;Q7Z3B4;Q9GZV4;Q9BQQ7;Q96RT1;O43736;Q07666;O75161;Q5JTC6;Q8NF91;Q9H5J4;P08865;Q9H902;Q99623;O43933;Q9UNH7;P31040;Q14244;Q99962;Q9BXM0;O60664;Q86YD1;P11277;O14908;Q6ZM3;P53801;Q7L804;Q9NQS1;Q15438;O14920;O95996;Q8WYR1;P12270;Q92575;Q8TAM2;Q0VDE8;Q8IVI9;Q9BX66;Q8WXE9;Q9BVT8;Q13367;Q96JS3;Q86UR1;P02549;Q9P0V3;Q9UND3;Q8N9A8;Q9NXG0;Q9UP83;Q9HAU4;Q92543;O60291;O43747;Q9Y4R8;Q9BRK4;P16157;Q9UJY4;P14373;O75340;O14786;P48444;Q96T49;Q330K2;O75886;Q92539;Q99848;Q9H492;Q8N1B4;Q86WV1;Q969Q5;Q96MT3;Q8TBZ2;P30279;Q13228;Q9H444;Q9BUH8;Q14457;Q13561;O60437;O00213;O95219;Q9UQF2;Q92783;Q9UPX8;Q6UWF3;Q96B97;P20700;Q8WV24;Q13283;Q2LD37;Q00005;Q96QK1;Q13439;P42167;Q96DX8;Q9Y678;Q9NZW5;Q9BXW4;O14910;Q9UBF9;Q6UW56;O60784;Q15388;O15049;Q01082;O14925;Q9NYJ8;P06733;Q14160;P78352;Q9NZ52;Q9NUU7;P18850;Q92597;O43264;Q99550;O75436;P50570;Q9P2D0;P42704;Q6NUQ7;Q8ND76;P54920;Q969G9;Q9H9E3;Q8WV28;Q9H6Q3;O75558;Q13033;Q15436;Q9UDY4;Q9NPB6;Q14C81;Q9NUS5;A8CG34;P83436;Q96DC7;Q96R3;Q00610;Q15041;Q00587;Q96JI7;Q9NZZ3;P78395;O43318;Q15700;Q9UKX7;Q9BZR8;O14579;O14713;P04156;Q3ZCQ8;Q5T2T1;P63146;O95486;Q86UE4;Q99828;Q9H4A6;P53618;Q99569;O75970;P23508;Q8WXS3;O95476;Q8N1N5;Q9HAP2;P40337;Q96H20;Q9BYG4;Q9UMY4;P63000;Q9H2K2;Q9BXS5;Q07157;P27815;Q96F51;Q9P299;Q93052;Q93045;Q9Y4G6;O94973;Q9NR77;P61923;Q92797;O00198;Q08495;Q96TC7;Q96IF1;Q13425;Q9P0M2;O94850;O60749;Q07021;Q3YBM2;Q14746;O75351;Q8IZS6;Q9P2W9;Q8NEU8;P10911;O95405;Q92572;Q03252;Q9NVV5;Q9H0R8;Q9HD36;Q969L2;Q9UBV8;Q9Y4E1;O43615;A8MVW5;Q9BVL2;P30622;Q9NSC5;Q4L180;Q969H4;Q8TC71;Q9UN37;Q8IV36;Q717R9;Q7Z699;P63165;Q6DKK2;Q3SYG4;Q9H0R1;Q9NR09;P08235;Q86VN1;Q96HJ5;Q9Y2

50;Q8N1I0;Q9BRG1;Q9P0J0;Q9NR22;Q5UE93;Q95721;Q9H267;Q15035;P31749;Q9NZI6;Q14677;Q9HC62;P11532;O00522;Q7Z3C6;Q5TCQ9;Q9Y5J7;Q9P0U1;Q99732;Q9H939;Q92843;Q9UK41;O43815;Q96E16;O15056;O75381;Q92870;Q8N3R9;Q86WG5;Q9BTW9;P11171;Q5SQN1;Q96C03;P63010;O75674;Q9Y3E7;Q9BRQ6;Q05084;Q7LBR1;Q9H9E1;P04406;Q9NZU7;O14613;Q68CJ9;Q95271;Q9BT92;Q96HA1;Q92556;Q96I34;Q92624;Q86UT5;Q8TCG1;Q6ZVN8;Q6P9B9;Q95171;Q075323;Q08378;Q9Y283;P23528;P46108;Q8WT9;Q9H8T0;Q9Y512;Q9BV57;Q6NZI2;Q9BZE9;Q075694;Q9UDY2;Q9Y4P8;Q13884;Q13884;O00189;Q9YH19;O14964;O00186;Q96SW2;P41220;Q495M9;P29966;Q96EY5;Q9BYG5;P50402;O76095;O75154;Q95295;Q7Z614;P14317;Q6ZPB5;P40855;Q9H0H0;P28289;Q7Z7M0;Q9NRL3;P24385;Q9BXF6;Q9UBQ0;Q13023;Q5VIR6;Q9UMR2;Q95782;Q9BTX1;Q9UKS6;Q08379;Q01844;O43491;Q8N9R8;Q9Y5K8;Q8NI35;Q8WV92;Q92681;Q9BVN2;Q8IWI2;P63241;Q15172;Q5HYI7;O15126;P35606;Q8NEZ2;Q8WUH2;O14662;Q9Y5V3;Q6ISU1;Q07820;Q15599;Q9NR15;Q96JJ3;Q5BJF2;Q8IZQ1;Q9U1L1;Q9HCI5;P14672;O94901;Q96NA2;Q9UKJ5;Q86UL8;Q9UBF2;Q96SN7;P35232;Q96G23;P53992;Q9BU61;O75843;Q9NRR3;O75386;P80723;P62424;Q9BZW7;Q95886;Q9H3K2;Q95487;Q99816;Q9NUQ3;Q9Y6F6;P52948;Q13596;Q9C004;Q9NZP6;Q96000;Q9NTG7;O15127;O15259;Q9Y244;Q14739;O43745;P61077;Q9H204;O75146;Q9P1A6;O00165;Q9UQN3;Q9UJM3;Q9Y3A3;Q9NZD8;O14490;O15504;P30047;Q9H7P6;Q9H1H9;Q9HCH5;P16452;O14512;P11802;Q9NVD7;Q6IS14;Q9H0M0;O00161;Q9NX63;P82094;Q7Z6B0;Q8IX03;Q9NP79;Q9NS69;Q9Y6D6;Q9BUZ4;Q8NFF9;Q9NZT2;Q9UKC9;Q9NUP9;Q9BQI5;P30153;O60299;P04264;Q96EY1;P49006;Q9NZJ0;Q676U5;P30281;O95810;O14641;Q9H9H4;P49901;Q8N1F7;Q9UJY5;Q9UJG1;P09497;O43752;Q13813;Q9ULD2;Q96N16;Q92621;Q13352;Q00765;Q8NFH5;P60953;O60238;Q5T2W1;Q96018;O60716;P53675;Q8IUD2;Q15643;P27986;O95166;P67775;Q14678;Q86XL3;P55735;Q6MZT1;Q99747;Q9BVI4;A6NDB9;Q9HD26;O95833;Q9UKG1;P11166;Q96B42;Q14315;Q96FS4;Q94855;Q9BSK0;O00291;O60711;Q10567;Q96MP8;Q9BW27;Q12840;Q96CN9;Q13515;Q9HD42;Q9UPT5;Q13424;P56181;Q9UH99;Q68DX3;Q96CW1;O95831;Q8N7J2;Q99689;Q9C0H9;Q9GZY8;Q9UQC2;Q9NX95;Q96CF2;Q4G0F5;A5D8V6;Q96JB2}

7022 [Cluster 639]GO:0016460+C cellular\_component [name] myosin II complex [def] "A myosin complex containing two class II myosin heavy chains, two myosin essential light chains and two myosin regulatory light chains. Also known as classical myosin or conventional myosin, the myosin II class includes the major muscle myosin of vertebrate and invertebrate muscle, and is characterized by alpha-helical coiled coil tails that self assemble to form a variety of filament structures." [http

7023 Pathogen[ Q2Q067] interacts with 1 human partners: {P35579}

7024 Pathogen[ P0C214] interacts with 1 human partners: {P35580}

7025 Pathogen[ P03346] interacts with 1 human partners: {P35579}

7026 Pathogen[ Q85601] interacts with 2 human partners: {P35579;P35580}

7027 Pathogen[ P14079] interacts with 2 human partners: {P35579;Q2M3G4}

7028 Pathogen[ P03383] interacts with 2 human partners: {P35580;P35579}

7029 Pathogen[ P03410] interacts with 3 human partners: {Q2M3G4;P35579;P35580}

7030 Pathogen[ P14075] interacts with 1 human partners: {P35579}

7031 Pathogen[ P0C206] interacts with 3 human partners: {Q2M3G4;P35579;P35580}

7032 Pathogen[ P03363] interacts with 2 human partners: {Q2M3G4;P35579}

7033 [Cluster 640]GO:0030896+C cellular\_component [name] checkpoint clamp complex [def] "Conserved heterotrimeric complex of PCNA-like proteins that is loaded onto DNA at sites of DNA damage." [PMID

7034 Pathogen[ Q2Q067] interacts with 2 human partners: {Q99638;Q6WBX8}

7035 Pathogen[ P0C214] interacts with 2 human partners: {Q6WBX8;Q99638}

7036 Pathogen[ P03346] interacts with 2 human partners: {Q6WBX8;Q99638}

7037 Pathogen[ Q85601] interacts with 2 human partners: {Q6WBX8;Q99638}

7038 Pathogen[ P14079] interacts with 2 human partners: {Q6WBX8;Q99638}

7039 Pathogen[ P03383] interacts with 2 human partners: {Q6WBX8;Q99638}

7040 Pathogen[ P03410] interacts with 2 human partners: {Q6WBX8;Q99638}

7041 Pathogen[ P14075] interacts with 2 human partners: {Q99638;Q6WBX8}

7042 Pathogen[ P0C206] interacts with 2 human partners: {Q6WBX8;Q99638}

7043 Pathogen[ P03363] interacts with 2 human partners: {Q6WBX8;Q99638}

7044 [Cluster 641]GO:0031902+C cellular\_component [name] late endosome membrane [def] "The lipid bilayer surrounding a late endosome." [GOC

7045 Pathogen[ Q2Q067] interacts with 23 human partners: {Q7Z3C6;O75351;Q7LBR1;Q9H444;Q99816;Q8WV92;Q96EY5;Q9H267;A5D8V6;Q92562;Q9UQN3;Q9UN37;Q96H20;Q9H0R1;Q9H7P6;Q9UK41;Q9Y3E7;Q9H9H4;Q96CF2;O43633;Q9NUS5;Q96NA2;Q8NEZ2}

7046 Pathogen[ P0C214] interacts with 23 human partners: {Q96CF2;O75351;Q9H444;Q9NUS5;Q96NA2;Q9UQN3;Q9UK41;Q9H0R1;Q92562;Q9BY43;Q9H7P6;Q7LBR1;Q96EY5;Q08AM6;Q8NEZ2;Q9Y3E7;Q99816;Q96H20;A5D8V6;Q9UN37;O43633;Q9H9H4;Q7Z3C6}

7047 Pathogen[ P03346] interacts with 28 human partners: {Q86XT2;Q7Z3C6;A5D8V6;Q9P253;Q8NEZ2;Q9H0R1;Q96NA2;Q99816;Q9UK41;Q92562;Q96H20;Q96FZ7;Q96CF2;Q9Y3E7;O43633;Q9H444;Q96AX1;Q8WV92;Q9H9H4;Q9NUS5;Q9UQN3;Q9BY43;O75351;Q7LBR1;Q96EY5;Q9H7P6;Q9H267;Q9UN37}

7048 Pathogen[ Q85601] interacts with 27 human partners: {Q99816;Q08AM6;Q9UQN3;Q9H7P6;Q96H20;Q9P253;Q8WV92;Q9NUS5;Q9H9H4;O43633;Q7LBR1;Q92562;Q96FZ7;Q9H267;Q7Z3C6;Q96CF2;O75351;Q9UK41;Q9BY43;Q9H444;Q96NA2;Q8NEZ2;Q96EY5;Q9UN37;Q9Y3E7;Q9H0R1;A5D8V6}

7049 Pathogen[ P14079] interacts with 33 human partners: {Q9H9H4;Q96NA2;Q92562;Q96CF2;Q96EY5;Q96H20;Q9Y2Q5;Q86XT2;Q9BY43;Q9H7P6;Q7LBR1;Q9UHA4;Q7Z3C6;Q9H269;O43633;Q86T03;Q6IAA8;Q96AX1;A5D8V6;Q9P253;Q8NEZ2;Q9UN37;Q96FZ7;Q9NUM4;Q9H0R1;Q9Y3E7;Q8WV92;O75351;Q9NUS5;Q9H444;Q99816;Q9H267;Q9UQN3}

7050 Pathogen[ P03383] interacts with 16 human partners: {Q7Z3C6;Q96H20;Q9H7P6;Q9Y3E7;Q8NEZ2;Q99816;Q9NUS5;Q9UK41;Q7LBR1;O43633;Q9H44

4;Q9H9H4;Q9UN37;Q96EY5;Q9UQN3;Q96NA2}

7051 Pathogen[ P03410] interacts with 33 human partners:{Q92562;Q9Y2Q5;Q9H267;O43633;Q9H7P6;Q86XT2;Q86T03;Q9H9H4;Q9NUS5;O75351;Q9BY43;Q9P253;Q9UHA4;A5D8V6;Q99816;Q9Y3E7;Q8NEZ2;Q9UQN3;Q08AM6;Q9UN37;Q8WV92;Q9H444;Q96FZ7;Q9H0R1;Q6IAA8;Q96EY5;Q96NA2;Q7Z3C6;Q96H20;Q96CF2;Q9H269;Q7LBR1;Q96AX1}

7052 Pathogen[ P14075] interacts with 15 human partners:{Q96EY5;Q7LBR1;Q9H444;Q96NA2;Q9UK41;Q8NEZ2;Q96H20;Q9Y3E7;Q9H9H4;Q9UQN3;Q9H7P6;Q99816;Q9NUS5;Q7Z3C6;Q9UN37}

7053 Pathogen[ P0C206] interacts with 31 human partners:{Q7Z3C6;Q9UN37;Q8NEZ2;Q9H444;Q7LBR1;Q9Y3E7;Q92562;Q9H0R1;Q9UQN3;Q99816;Q9UK41;Q9H9H4;Q9H7P6;A5D8V6;Q96H20;Q86XT2;O43633;Q96AX1;Q96CF2;Q9BY43;Q9P253;Q96NA2;Q96FZ7;O75351;Q8WV92;Q86T03;Q9H267;Q96EY5;Q9NUS5;Q08AM6}

7054 Pathogen[ P03363] interacts with 21 human partners:{Q9H444;Q9NUS5;Q96H20;O75351;Q9UN37;Q9H0R1;Q9H267;Q7Z3C6;Q9UK41;Q9Y3E7;Q7LBR1;Q96EY5;Q8WV92;Q8NEZ2;Q96NA2;Q99816;Q9UQN3;Q9H7P6;Q9H9H4;Q96CF2;A5D8V6}

7055 [Cluster 642]GO:0030686+C cellular\_component [name] 90S preribosome [def] "A large ribonucleoprotein complex considered to be the earliest preribosomal complex. In *S. cerevisiae*, it has a size of 90S and consists of the 35S pre-rRNA, early-associating ribosomal proteins most of which are part of the small ribosomal subunit, the U3 snoRNA and associated proteins." [PMID

7056 Pathogen[ Q2Q067] interacts with 4 human partners:{P62081;P08865;P78316;O75691}

7057 Pathogen[ P0C214] interacts with 4 human partners:{O75691;P62081;P08865;P78316}

7058 Pathogen[ P03346] interacts with 4 human partners:{O75691;P08865;P78316;P62081}

7059 Pathogen[ Q85601] interacts with 4 human partners:{P62081;O75691;P08865;P78316}

7060 Pathogen[ P14079] interacts with 4 human partners:{O75691;P78316;P62081;P08865}

7061 Pathogen[ P03383] interacts with 4 human partners:{O75691;P62081;P08865;P78316}

7062 Pathogen[ P03410] interacts with 4 human partners:{P78316;P08865;P62081;O75691}

7063 Pathogen[ P14075] interacts with 4 human partners:{P08865;P62081;P78316;O75691}

7064 Pathogen[ P0C206] interacts with 4 human partners:{P62081;P08865;P78316;O75691}

7065 Pathogen[ P03363] interacts with 4 human partners:{P08865;P62081;O75691;P78316}

7066 [Cluster 643]GO:0001652+C cellular\_component [name] granular component [def] "A structure found in the nucleolus, which contains nearly completed preribosomal particles destined for the cytoplasm." [PMID

7067 Pathogen[ Q2Q067] interacts with 3 human partners:{P22087;Q9NXV6;O75683}

7068 Pathogen[ P0C214] interacts with 3 human partners:{O75683;P22087;Q9NXV6}

7069 Pathogen[ P03346] interacts with 3 human partners:{Q9NXV6;O75683;P22087}

7070 Pathogen[ Q85601] interacts with 3 human partners:{P22087;O75683;Q9NXV6}

7071 Pathogen[ P14079] interacts with 3 human partners:{Q9NXV6;P22087;O75683}

7072 Pathogen[ P03383] interacts with 3 human partners:{O75683;Q9NXV6;P22087}

7073 Pathogen[ P03410] interacts with 3 human partners:{P22087;O75683;Q9NXV6}

7074 Pathogen[ P14075] interacts with 3 human partners:{Q9NXV6;O75683;P22087}

7075 Pathogen[ P0C206] interacts with 3 human partners:{O75683;Q9NXV6;P22087}

7076 Pathogen[ P03363] interacts with 3 human partners:{O75683;P22087;Q9NXV6}

7077 [Cluster 644]GO:0036038+C cellular\_component [name] tectonic complex [def] "A protein complex that is located at the ciliary transition zone and consists of tectonic 1 (Tctn1) in complex with other proteins. Acts to control ciliary assembly and trafficking. In mouse, other members of the complex include Mks1, Tmem216, Tmem67, Cep290, B9d1, Tctn2 and Cc2d2a." [PMID

7078 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9NXB0;O15078;Q9BPU9}

7079 Pathogen[ P0C214] interacts with 3 human partners:{O15078;Q9NXB0;Q9BPU9}

7080 Pathogen[ P03346] interacts with 4 human partners:{Q9BPU9;Q9NXB0;Q8N157;O15078}

7081 Pathogen[ Q85601] interacts with 3 human partners:{O15078;Q9NXB0;Q9BPU9}

7082 Pathogen[ P14079] interacts with 8 human partners:{Q9P0N5;Q96GX1;Q8N157;Q9UPM9;Q9BPU9;O15078;Q9P2K1;Q9NXB0}

7083 Pathogen[ P03383] interacts with 2 human partners:{Q9NXB0;O15078}

7084 Pathogen[ P03410] interacts with 8 human partners:{Q96GX1;Q9BPU9;Q8N157;Q9P0N5;O15078;Q9P2K1;Q9UPM9;Q9NXB0}

7085 Pathogen[ P14075] interacts with 3 human partners:{Q9NXB0;O15078;Q9BPU9}

7086 Pathogen[ P0C206] interacts with 6 human partners:{Q9BPU9;Q9UPM9;Q9P2K1;O15078;Q8N157;Q9NXB0}

7087 Pathogen[ P03363] interacts with 5 human partners:{O15078;Q9P2K1;Q8N157;Q9BPU9;Q9NXB0}

7088 [Cluster 645]GO:0033557+C cellular\_component [name] Slx1-Slx4 complex [def] "A heterodimeric protein complex that possesses an endonuclease activity that specifically cleaves certain types of branched DNA structures\_ because such structures often form during the replication ribosomal DNA (rDNA) repeats, the complex plays a role in the maintenance of rDNA. The subunits are known as Slx1 and Slx 4 in budding and fission yeasts, and are conserved in eukaryotes." [PMID

7089 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9BQ83;Q8IY92}

7090 Pathogen[ P0C214] interacts with 2 human partners:{Q9BQ83;Q8IY92}

7091 Pathogen[ P03346] interacts with 2 human partners:{Q9BQ83;Q8IY92}

7092 Pathogen[ Q85601] interacts with 2 human partners:{Q8IY92;Q9BQ83}

7093 Pathogen[ P14079] interacts with 2 human partners:{Q9BQ83;Q8IY92}

7094 Pathogen[ P03383] interacts with 2 human partners:{Q8IY92;Q9BQ83}

7095 Pathogen[ P03410] interacts with 2 human partners:{Q9BQ83;Q8IY92}

7096 Pathogen[ P14075] interacts with 2 human partners:{Q9BQ83;Q8IY92}



7097 Pathogen[ P0C206] interacts with 2 human partners:{Q9BQ83;Q8IY92}

7098 Pathogen[ P03363] interacts with 2 human partners:{Q9BQ83;Q8IY92}

7099 [Cluster 646]GO:0042405+C cellular\_component [name] nuclear inclusion body [def] "An intranuclear focus at which aggregated proteins have been sequestered." [GOC

7100 Pathogen[ Q2Q067] interacts with 4 human partners:{Q9UBU9;P54253;O60934;Q9UNE7}

7101 Pathogen[ P0C214] interacts with 3 human partners:{P54253;Q9UNE7;Q9UBU9}

7102 Pathogen[ P03346] interacts with 4 human partners:{Q9UNE7;O60934;Q9UBU9;P54253}

7103 Pathogen[ Q85601] interacts with 4 human partners:{Q9UBU9;P54253;Q9UNE7;O60934}

7104 Pathogen[ P14079] interacts with 3 human partners:{Q9UBU9;O60934;P54253}

7105 Pathogen[ P03383] interacts with 2 human partners:{Q9UBU9;P54253}

7106 Pathogen[ P03410] interacts with 4 human partners:{Q9UNE7;Q9UBU9;P54253;O60934}

7107 Pathogen[ P14075] interacts with 2 human partners:{P54253;Q9UBU9}

7108 Pathogen[ P0C206] interacts with 4 human partners:{O60934;Q9UNE7;Q9UBU9;P54253}

7109 Pathogen[ P03363] interacts with 3 human partners:{Q9UBU9;Q9UNE7;P54253}

7110 [Cluster 647]GO:0016604+C cellular\_component [name] nuclear body [def] "Extra-nucleolar nuclear domains usually visualized by confocal microscopy and fluorescent antibodies to specific proteins." [GOC

7111 Pathogen[ Q2Q067] interacts with 24 human partners:{Q96IT1;Q05516;Q99684;P63279;Q8N726;Q86UE4;Q96BF6;P35227;P63165;Q9UQL6;O43593;P12755;Q8WXD5;P35226;Q8TEQ6;Q99496;Q9Y618;Q8IUR6;Q96RE7;Q92793;Q96MU7;Q9H840;Q00987;Q06587}

7112 Pathogen[ P0C214] interacts with 24 human partners:{P35226;P35227;Q00987;Q92793;P63279;Q8N726;Q8WXD5;Q86UE4;Q96BF6;Q96IT1;P63165;Q06587;Q8TEQ6;O43593;P12755;Q9H840;Q99496;Q8IUR6;Q99684;Q96MU7;Q96RE7;Q9Y618;Q9UQL6;Q05516}

7113 Pathogen[ P03346] interacts with 26 human partners:{Q96MU7;Q86UE4;P35226;Q8WXD5;P35227;Q8IUR6;P63279;Q96RE7;Q9H165;Q00987;Q92766;O43593;Q99684;P63165;Q8TEQ6;Q96BF6;Q99496;P78364;Q05516;Q96IT1;Q92793;Q8N726;Q9Y618;Q06587;Q9UQL6;Q9H840}

7114 Pathogen[ Q85601] interacts with 25 human partners:{Q96MU7;Q8IUR6;Q9UQL6;Q96BF6;Q9Y618;P63279;P12755;P78364;Q8N726;Q8TEQ6;Q86UE4;Q99496;Q99684;Q05516;P63165;Q96RE7;P35226;Q96IT1;Q92793;O43593;Q00987;Q06587;Q8WXD5;Q9H840;P35227}

7115 Pathogen[ P14079] interacts with 24 human partners:{Q9UQL6;Q96MU7;P12755;P63279;Q8TEQ6;Q92793;Q99684;Q8N726;Q05516;Q9H840;P63165;Q00987;P78364;Q99496;Q96BF6;Q86UE4;Q96RE7;P35226;P35227;Q96IT1;O43593;Q8WXD5;Q8IUR6;Q06587}

7116 Pathogen[ P03383] interacts with 20 human partners:{P35227;Q9Y618;Q8IUR6;Q9H840;Q86UE4;Q9UQL6;Q96MU7;Q8WXD5;Q06587;Q05516;Q8TEQ6;P63165;Q96RE7;Q96IT1;Q99496;Q99684;P63279;Q92793;P35226;Q8N726}

7117 Pathogen[ P03410] interacts with 24 human partners:{Q96BF6;Q8WXD5;Q99496;Q9H840;P12755;Q8N726;P63165;Q8TEQ6;Q96MU7;Q99684;P35227;Q9UQL6;Q92793;Q86UE4;Q8IUR6;Q96IT1;P63279;Q06587;Q96RE7;Q00987;Q9Y618;P35226;P78364;O43593}

7118 Pathogen[ P14075] interacts with 20 human partners:{Q8TEQ6;P63165;Q8WXD5;Q86UE4;Q9H840;Q96IT1;P63279;Q9Y618;Q06587;Q96RE7;Q99684;Q96MU7;Q99496;Q92793;P35226;Q05516;Q9UQL6;Q8IUR6;Q8N726;P35227}

7119 Pathogen[ P0C206] interacts with 25 human partners:{Q8IUR6;Q9H840;Q8N726;P78364;Q8WXD5;Q05516;P35226;Q8TEQ6;P12755;Q92793;Q06587;Q96MU7;Q96IT1;Q9H165;Q99684;Q86UE4;Q96BF6;P63165;Q00987;O43593;Q96RE7;Q9Y618;Q99496;P35227;Q9UQL6}

7120 Pathogen[ P03363] interacts with 23 human partners:{Q99684;Q96RE7;Q92766;P35227;Q96MU7;Q9UQL6;Q99496;Q86UE4;Q96BF6;O43593;P63165;P35226;Q8WXD5;Q9Y618;Q96IT1;Q9H840;P63279;Q92793;Q8N726;Q8IUR6;Q8TEQ6;Q06587;Q05516}

7121 [Cluster 648]GO:0034464+C cellular\_component [name] BBSome [def] "A protein complex that associates with the primary cilium and is involved in cilium biogenesis\_ consists of seven conserved proteins

7122 Pathogen[ Q2Q067] interacts with 2 human partners:{Q3SYG4;A8MTZ0}

7123 Pathogen[ P0C214] interacts with 2 human partners:{Q3SYG4;A8MTZ0}

7124 Pathogen[ P03346] interacts with 3 human partners:{A8MTZ0;Q8TAM2;Q3SYG4}

7125 Pathogen[ Q85601] interacts with 2 human partners:{A8MTZ0;Q3SYG4}

7126 Pathogen[ P14079] interacts with 6 human partners:{Q8NFI9;Q8N3I7;Q8IWZ6;Q8TAM2;Q3SYG4;A8MTZ0}

7127 Pathogen[ P03383] interacts with 2 human partners:{A8MTZ0;Q3SYG4}

7128 Pathogen[ P03410] interacts with 6 human partners:{Q8NFI9;Q3SYG4;Q8TAM2;A8MTZ0;Q8N3I7;Q8IWZ6}

7129 Pathogen[ P14075] interacts with 2 human partners:{Q3SYG4;A8MTZ0}

7130 Pathogen[ P0C206] interacts with 5 human partners:{Q3SYG4;Q8TAM2;Q8N3I7;Q8NFI9;A8MTZ0}

7131 Pathogen[ P03363] interacts with 4 human partners:{Q8TAM2;A8MTZ0;Q3SYG4;Q8NFI9}

7132 [Cluster 649]GO:0072487+C cellular\_component [name] MSL complex [def] "A histone acetyltransferase complex that catalyzes the acetylation of a histone H4 lysine residue at position 16. In human, it contains the catalytic subunit MOF, and MSL1, MSL2 and MSL3." [PMID

7133 Pathogen[ Q2Q067] interacts with 2 human partners:{Q8N5Y2;Q68DK7}



7134 Pathogen[ P0C214] interacts with 1 human partners:{Q68DK7}

7135 Pathogen[ P03346] interacts with 3 human partners:{Q8N5Y2;Q68DK7;Q9H7Z6}

7136 Pathogen[ Q85601] interacts with 3 human partners:{Q8N5Y2;Q9H7Z6;Q68DK7}

7137 Pathogen[ P14079] interacts with 3 human partners:{Q68DK7;Q8N5Y2;Q9HCI7}

7138 Pathogen[ P03383] interacts with 1 human partners:{Q68DK7}

7139 Pathogen[ P03410] interacts with 3 human partners:{Q9HCI7;Q8N5Y2;Q68DK7}

7140 Pathogen[ P14075] interacts with 1 human partners:{Q68DK7}

7141 Pathogen[ P0C206] interacts with 4 human partners:{Q68DK7;Q9HCI7;Q8N5Y2;Q9H7Z6}

7142 Pathogen[ P03363] interacts with 2 human partners:{Q68DK7;Q8N5Y2}

7143 [Cluster 650]GO:0032300+C cellular\_component [name] mismatch repair complex [def] "Any complex formed of proteins that act in mismatch repair." [GOC]

7144 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9UHC1;P54278}

7145 Pathogen[ P0C214] interacts with 4 human partners:{A8MQ11;Q9UHC1;P54278;P40692}

7146 Pathogen[ P03346] interacts with 3 human partners:{Q9UHC1;P54278;P54277}

7147 Pathogen[ Q85601] interacts with 4 human partners:{A8MQ11;P54278;Q9UHC1;P40692}

7148 Pathogen[ P14079] interacts with 7 human partners:{O43196;P40692;P54278;Q9UHC1;A8MQ11;O95744;P54277}

7149 Pathogen[ P03383] interacts with 2 human partners:{P54278;Q9UHC1}

7150 Pathogen[ P03410] interacts with 7 human partners:{P40692;P54277;O95744;O43196;A8MQ11;P54278;Q9UHC1}

7151 Pathogen[ P14075] interacts with 2 human partners:{Q9UHC1;P54278}

7152 Pathogen[ P0C206] interacts with 5 human partners:{P54278;P40692;Q9UHC1;A8MQ11;P54277}

7153 Pathogen[ P03363] interacts with 3 human partners:{Q9UHC1;P54278;P54277}

7154 [Cluster 651]GO:0071797+C cellular\_component [name] LUBAC complex [def] "A ubiquitin ligase complex that catalyzes linear head-to-tail polyubiquitin conjugation on its targets. In human the complex consists of RBCK1, RNF31 and SHARPIN, and has an MW of approximately 600 kDa, suggesting a heteromultimeric assembly of its subunits. LUBAC stands for Linear Ubiquitin Chain Assembly Complex." [GOC]

7155 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9H0F6}

7156 Pathogen[ P0C214] interacts with 1 human partners:{Q9H0F6}

7157 Pathogen[ P03346] interacts with 3 human partners:{Q9BYM8;Q9H0F6;Q96EP0}

7158 Pathogen[ Q85601] interacts with 1 human partners:{Q9H0F6}

7159 Pathogen[ P14079] interacts with 3 human partners:{Q96EP0;Q9BYM8;Q9H0F6}

7160 Pathogen[ P03383] interacts with 1 human partners:{Q9H0F6}

7161 Pathogen[ P03410] interacts with 1 human partners:{Q9H0F6}

7162 Pathogen[ P14075] interacts with 1 human partners:{Q9H0F6}

7163 Pathogen[ P0C206] interacts with 3 human partners:{Q96EP0;Q9H0F6;Q9BYM8}

7164 Pathogen[ P03363] interacts with 2 human partners:{Q96EP0;Q9H0F6}

7165 [Cluster 652]GO:0030139+C cellular\_component [name] endocytic vesicle [def] "A membrane-bounded intracellular vesicle formed by invagination of the plasma membrane around an extracellular substance. Endocytic vesicles fuse with early endosomes to deliver the cargo for further sorting." [GOC]

7166 Pathogen[ Q2Q067] interacts with 2 human partners:{Q5VYK3;Q15276}

7167 Pathogen[ P0C214] interacts with 2 human partners:{Q9UM54;Q5VYK3}

7168 Pathogen[ P03346] interacts with 4 human partners:{O14908;Q5VYK3;Q86YS3;Q15276}

7169 Pathogen[ Q85601] interacts with 3 human partners:{Q5VYK3;Q86YS3;Q9UM54}

7170 Pathogen[ P14079] interacts with 6 human partners:{Q15276;Q86YS3;Q9UM54;Q5VYK3;O00461;O14908}

7171 Pathogen[ P03383] interacts with 2 human partners:{Q5VYK3;Q15276}

7172 Pathogen[ P03410] interacts with 6 human partners:{Q5VYK3;O14908;O00461;Q9UM54;Q86YS3;Q15276}

7173 Pathogen[ P14075] interacts with 3 human partners:{O00461;Q15276;Q5VYK3}

7174 Pathogen[ P0C206] interacts with 6 human partners:{Q9UM54;O00461;O14908;Q5VYK3;Q86YS3;Q15276}

7175 Pathogen[ P03363] interacts with 3 human partners:{O14908;Q15276;Q5VYK3}

7176 [Cluster 653]GO:0019908+C cellular\_component [name] nuclear cyclin-dependent protein kinase holoenzyme complex [def] "Cyclin-dependent protein kinase (CDK) complex found in the nucleus." [GOC]

7177 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9P287}

7178 Pathogen[ P0C214] interacts with 1 human partners:{Q9P287}

7179 Pathogen[ P03346] interacts with 1 human partners:{Q9P287}

7180 Pathogen[ Q85601] interacts with 1 human partners:{Q9P287}

7181 Pathogen[ P14079] interacts with 2 human partners:{Q14004;Q9P287}

7182 Pathogen[ P03383] interacts with 2 human partners:{Q9NYV4;Q9P287}

7183 Pathogen[ P03410] interacts with 1 human partners:{Q9P287}

7184 Pathogen[ P14075] interacts with 2 human partners:{Q9P287;Q9NYV4}

7185 Pathogen[ P0C206] interacts with 1 human partners:{Q9P287}

7186 Pathogen[ P03363] interacts with 1 human partners:{Q9P287}

7187 [Cluster 654]GO:0071595+C cellular\_component [name] Nem1-Spo7 phosphatase complex [def] "A protein serine/threonine phosphatase complex that is involved in nuclear envelope organization, and contains proteins known in budding yeast as Nem1p and Spo7p." [GOC]

7188 Pathogen[ Q2Q067] interacts with 2 human partners:{Q8N9A8;O95476}

7189 Pathogen[ P0C214] interacts with 2 human partners:{Q8N9A8;O95476}

7190 Pathogen[ P03346] interacts with 2 human partners:{Q8N9A8;O95476}

7191 Pathogen[ Q85601] interacts with 2 human partners: {Q8N9A8;Q95476}

7192 Pathogen[ P14079] interacts with 2 human partners: {Q8N9A8;Q95476}

7193 Pathogen[ P03383] interacts with 1 human partners: {Q8N9A8}

7194 Pathogen[ P03410] interacts with 2 human partners: {Q95476;Q8N9A8}

7195 Pathogen[ P14075] interacts with 1 human partners: {Q8N9A8}

7196 Pathogen[ POC206] interacts with 2 human partners: {Q95476;Q8N9A8}

7197 Pathogen[ P03363] interacts with 2 human partners: {Q8N9A8;Q95476}

7198 [Cluster 655]GO:0031262+C cellular\_component [name] Ndc80 complex [def] "A protein complex conserved among eukaryotes that forms part of the kinetochore and plays an essential role in forming stable kinetochore-microtubule attachments. The complex contains proteins known in several species, including budding and fission yeasts, as Ndc80p, Nuf2p, Spc24p, and Spc25p. In vertebrates it is part of the outer plate of the kinetochore." [PMID

7199 Pathogen[ Q2Q067] interacts with 4 human partners: {Q9HBM1;Q8NBT2;Q9BZD4;O14777}

7200 Pathogen[ P0C214] interacts with 4 human partners: {Q8NBT2;Q9HBM1;Q9BZD4;O14777}

7201 Pathogen[ P03346] interacts with 4 human partners: {O14777;Q8NBT2;Q9HBM1;Q9BZD4}

7202 Pathogen[ Q85601] interacts with 4 human partners: {Q8NBT2;Q9BZD4;O14777;Q9HBM1}

7203 Pathogen[ P14079] interacts with 4 human partners: {Q9HBM1;Q8NBT2;Q9BZD4;O14777}

7204 Pathogen[ P03383] interacts with 4 human partners: {Q8NBT2;Q9BZD4;Q9HBM1;O14777}

7205 Pathogen[ P03410] interacts with 4 human partners: {Q9BZD4;Q9HBM1;Q8NBT2;O14777}

7206 Pathogen[ P14075] interacts with 4 human partners: {O14777;Q9HBM1;Q8NBT2;Q9BZD4}

7207 Pathogen[ POC206] interacts with 4 human partners: {Q9HBM1;O14777;Q9BZD4;Q8NBT2}

7208 Pathogen[ P03363] interacts with 4 human partners: {Q9BZD4;Q8NBT2;Q9HBM1;O14777}

7209 [Cluster 656]GO:0005789+C cellular\_component [name] endoplasmic reticulum membrane [def] "The lipid bilayer surrounding the endoplasmic reticulum." [GOC

7210 Pathogen[ Q2Q067] interacts with 51 human partners: {O15027;Q96HA1;O75340;Q9H5J4;Q6RW13;P55735;Q86XL3;Q96P71;A8CG34;P18850;P36956;Q96EV8;Q96I23;P63241;Q86UE4;Q15629;Q92575;Q9BW60;Q96G23;Q12959;O43264;O75396;Q9GZR5;Q9UBS3;Q8TEM1;Q92539;Q15437;P53992;O95486;O94855;Q68CJ9;Q6IS14;Q9BVC6;O94850;Q96JE7;Q9UQF2;Q95476;A1L3X0;Q6NUQ1;Q9HB03;P08235;O15155;O95487;Q9BQE4;Q9GZV4;Q9P2W9;Q9NRR5;Q15436;Q14442;Q14693;P14625}

7211 Pathogen[ P0C214] interacts with 59 human partners: {Q6NUQ1;Q9UM00;Q9HA82;P18850;P55735;Q9NXB9;P14625;Q6IS14;O14681;Q6RW13;P53992;O43264;Q9NRR5;Q9GZV4;Q8TEM1;P29401;Q9GZR5;Q68CJ9;Q9UBS3;O75340;Q86SQ9;P63241;Q15436;Q86UE4;Q9NWXG1;A8CG34;Q9HB03;Q9NYP7;O95487;Q92539;P49257;A1L3X0;Q9BQK8;Q15437;Q86XL3;Q96G23;Q96P71;Q96EV8;O94850;Q12959;Q9UQF2;O95476;Q15629;Q9BVC6;O75396;Q9UJH9;Q86WV6;Q9BW60;Q92575;P55210;Q9BQE4;Q96JE7;O15155;O15027;O95486;Q9P2W9;O94855;Q14693;Q96HA1}

7212 Pathogen[ P03346] interacts with 65 human partners: {Q8TEM1;Q9BW60;P55735;Q9UBS3;Q9P2W9;O15027;Q86UE4;Q96BA8;Q96P71;Q9GZV4;P36956;P14625;P08235;Q70SY1;Q12772;P49257;Q9NRR5;Q15629;Q969X5;Q12981;O43264;O75396;P63241;Q86SQ9;O94855;Q6IS14;P18850;Q92575;Q9Y6F6;Q6NUQ1;Q9BUN8;Q15436;O75340;Q92539;Q96EV8;Q15437;Q9H5J4;Q96JE7;Q96G23;Q9HB03;O94850;O95486;O95476;Q9BVC6;Q96KC8;Q68CJ9;Q5JRA6;Q9HCU5;A8CG34;Q9UQF2;P55210;O95487;Q14442;Q6RW13;Q96HA1;Q86XL3;Q8TEY5;P49755;Q96I23;O15155;P53992;Q15363;Q9BVK6;Q14693;Q12959}

7213 Pathogen[ Q85601] interacts with 55 human partners: {Q8TEM1;Q68CJ9;Q86WV6;Q92575;O15027;Q6NUQ1;A1L3X0;O75396;Q9GZV4;Q9UBS3;Q15629;O95487;A8CG34;Q9NRR5;Q96JE7;O15155;Q9UJH9;Q12981;O43264;Q12772;P63241;Q86SQ9;Q9P2W9;Q15436;Q9UQF2;Q86XL3;Q9BW60;Q9UM00;Q96EV8;Q15437;Q9H5J4;P36956;P49257;Q96G23;P55735;P18850;Q9HB03;Q6RW13;P08235;Q86UE4;O75340;O95486;O95476;Q12959;P14625;Q9GZR5;Q96P71;Q96HA1;O94855;Q92539;P53992;P55210;Q6IS14;Q9BQE4;Q14693}

7214 Pathogen[ P14079] interacts with 160 human partners: {Q15629;Q16655;Q8N6M3;Q6NUQ1;O43292;Q9Y5Y5;Q8NBV4;O95070;A5PLL7;Q9Y5U4;Q96HA1;Q9H295;Q969M3;P49257;Q9BQK8;O15027;Q16873;Q86VE9;P60468;Q3ZQAQ7;Q96P71;Q9BU23;Q14442;Q9BQE4;Q1HG44;Q14693;A1L3X0;Q24JP5;Q9P055;O95487;Q96S52;Q1HG43;Q68CJ9;P20292;Q9BRL7;Q9NXE4;Q96RQ1;Q9BVC6;Q9UBS3;Q6IS14;P39656;P08235;Q9NZ42;Q9UQF2;O00400;Q9BVK6;A8CG34;Q6RW13;P57054;P43307;Q629K1;Q8TEM1;P29401;O94855;Q9HA82;Q99442;Q9BT22;Q96Q80;Q9BRB3;P53992;P04844;Q5VUD6;Q86SQ9;Q9Y2B2;Q9GZP9;Q86XL3;O94777;O15155;Q9NRX5;O75352;O94905;Q969N2;Q9HB03;Q5QFB9;Q92539;Q96JE7;P33947;Q9P2X0;Q15363;Q9BUN8;Q9UJH9;Q5JPE7;O75396;Q9NRR5;Q12772;P24390;Q9H8M9;P27544;Q9Y5U9;Q8NFR3;Q8N609;Q9BVK8;Q86UW1;Q8N114;Q969X5;O75915;P49755;Q12912;Q86WV6;O00264;Q9Y6X1;P55210;Q96G23;O75340;Q9Y6D0;O75477;Q5JRA6;Q12981;Q9NZ43;O95292;O43264;P60059;Q969W0;Q7Z5B4;Q86UE4;P61803;P10620;Q9H490;P63241;P18850;P14625;Q9UKR5;A5D6W6;Q9Y5Z9;Q9UM00;Q9NZV5;O15260;O95476;P55735;Q96BY9;Q9GZR5;Q96EV8;Q15011;Q9H0V9;Q9Y6F6;Q9NWW5;Q96MG2;O95486;Q9BW60;Q9P2W9;Q8TBF5;Q8NFBQ8;Q92575;P36956;P51571;Q9GZV4;O14681;Q96I23;Q9H5J4;O94850;Q96S06;Q6AZA7;Q3MUJ2;Q8IU68;Q8WXG1;P46977;Q8N138;O43731;O15503;Q96FM1}

7215 Pathogen[ P03383] interacts with 42 human partners: {Q68CJ9;Q6RW13;Q96I23;P55735;Q86UE4;O95487;O43264;A8CG34;Q9BW60;Q9GZR5;Q9BUN8;Q9H5J4;Q9GZV4;Q96P71;O95486;Q9UQF2;Q8TEM1;P63241;Q96EV8;Q15436;Q9UBS3;Q15629;Q9BVC6;Q9BQE4;Q15437;O94855;A1L3X0;Q9HB03;P14625;O94850;O15027;Q96HA1;Q96JE7;P53992;Q9NRR5;Q9UM00;O14681;Q6NUQ1;P18850;Q92539;Q92575;Q14693}

7216 Pathogen[ P03410] interacts with 151 human partners: {A1L3X0;Q9BQK8;O95292;Q86VE9;Q68CJ9;P36956;A5D6W6;O14681;Q9GZR5;Q9NZ43;Q9H0V9;Q99442;Q9BVC6;P60468;Q7Z5B4;Q96FM1;P49257;P60059;Q1HG43;Q9NRR5;O94855;Q9NWW5;Q969X5;Q9H5J4;Q13445;Q86UW1;P53992;Q9Y2B2;Q9BU23;Q8N138;Q12959;Q16655;O00400;O94905;Q9Y5Y5;Q9Y5U4;P14625;P33947;Q9Y6F6;Q9P2W9;Q8N114;Q9Y5Z9;O94777;Q96Q80;Q1HG44;P27544;Q9GZP9;Q24JP5;Q9UBS3;Q9P055;Q14442;Q96HA1;Q6NUQ1;O94850;Q96S52;Q5VUD6;Q9BQE4;Q8N609;Q8WXG1;Q9

- NXE4;Q8N6M3;Q96G23;O43264;Q14693;Q92575;Q9NZ42;Q9UHQ9;Q15436;Q9BVK6;P43307;Q9Y6X1;Q9NRX5;O75396;Q96BY9;Q969M3;Q15437;O75915;O00264;Q9BUN8;Q96RQ1;Q9HA82;Q96I23;Q12772;O15155;Q86SQ9;Q9BW60;Q86UE4;Q16873;Q15629;O95486;Q8TEM1;Q15363;Q12912;Q9BRB3;Q96JE7;Q9BT22;Q96S06;Q6RW13;P04844;O95476;Q9HCU5;P24390;O75477;Q9HB03;Q9Y6D0;Q969N2;Q9Y5U9;Q969W0;P63241;Q9UBY8;A8CG34;Q86WV6;O15027;Q15011;Q9BVK8;O75352;O75340;Q629K1;Q9UQF2;O43731;Q9GZV4;Q96P71;Q8IU99;P55735;Q8NFQ8;O15260;Q12981;P39656;P20292;O15503;Q9UM00;Q92539;Q9HA490;P08235;P61803;P18850;Q9P2X0;Q6AZY7;Q96EV8;Q86XL3;Q5QFB9;Q5JRA6;O95070;O95487;Q8NFR3;Q8NBV4;P55210;Q9BRL7;Q6IS14;Q96MG2;Q9NZV5}
- 7217 Pathogen[ P14075] interacts with 53 human partners: {Q9BQE4;Q9UBS3;Q9H5J4;O94777;Q9BVC6;Q96JE7;Q9BW60;O14681;Q14442;Q86UE4;A8CG34;Q6NUQ1;Q9Y6F6;Q9HB03;Q9GZV4;O15027;Q15629;P63241;P53992;P55735;ALL3X0;Q96HA1;Q16655;O95487;Q96I23;Q92539;Q15437;Q9UHQ9;Q8TEM1;Q9Y6D0;Q9BUN8;Q92575;Q1HG44;Q15436;Q9NRR5;Q9GZR5;Q68CJ9;Q96EV8;Q8N6M3;Q15011;Q969W0;O94855;Q6RW13;O43264;P14625;O95486;Q9UQF2;O75477;O94850;Q9UM00;Q96P71;P18850;Q14693}
- 7218 Pathogen[ P0C206] interacts with 106 human partners: {Q96P71;O75340;O75477;Q9BVK6;Q92539;Q16655;Q15437;Q92575;Q9UM00;Q9GZV4;Q96G23;Q6IS14;O75396;Q9NZ42;O94855;P39656;Q9UHQ9;Q6NUQ1;Q96I23;P18850;Q7Z5B4;Q86XL3;Q9HB03;A5D6W6;Q96HA1;O95070;Q14442;O94850;P49755;Q5JRA6;Q9Y5Z9;P55735;O94777;P36956;Q86WV6;Q8NFR3;Q9UQF2;Q1HG44;O95476;Q9H5J4;O95292;O14681;Q8TEM1;Q1HG43;Q8N6M3;Q9BQE4;Q9NRR5;O15155;Q6RW13;Q9HA82;O95486;Q969M3;O00264;Q9BVC6;Q96EV8;Q969W0;P33947;Q15011;Q96JE7;P24390;P49257;Q95487;Q9Y6F6;Q9BQK8;O94905;Q9BUN8;Q9GZP9;Q9Y2B2;O43731;Q12981;P63241;O15260;P20292;Q9Y6D0;Q969X5;Q8NFQ8;Q86UE4;Q15629;Q9GZR5;Q9UBS3;Q96RQ1;A8CG34;P53992;Q15363;Q12912;Q9Y5U9;Q8WXG1;Q14693;O15027;P55210;O43264;Q12959;Q86SQ9;Q12772;P08235;Q9P2W9;Q96S06;Q8NBV4;Q99640;Q68CJ9;ALL3X0;P14625;P29401;Q9BRL7;Q9BW60;Q15436}
- 7219 Pathogen[ P03363] interacts with 34 human partners: {Q12959;Q9GZV4;Q9H5J4;Q92575;O75340;Q92539;Q9UQF2;P18850;O43264;Q6NUQ1;Q9UBS3;Q96I23;Q15436;A8CG34;O95486;Q86UE4;O95476;O94850;Q9P2W9;Q9NRR5;Q96P71;P08235;Q68CJ9;Q96HA1;P63241;Q96G23;P53992;O95487;Q9Y6F6;P55210;Q6IS14;Q86XL3;P55735;O94855}
- 7220 [Cluster 657]GO:0071013+C cellular\_component [name] catalytic step 2 spliceosome [def] "A spliceosomal complex that contains three snRNPs, including U5, bound to a splicing intermediate in which the first catalytic cleavage of the 5' splice site has occurred. The precise subunit composition differs significantly from that of the catalytic step 1, or activated, spliceosome, and includes many proteins in addition to those found in the associated snRNPs." [GOC
- 7221 Pathogen[ Q2Q067] interacts with 59 human partners: {Q9UNP9;O43290;Q13573;P07910;Q9Y333;Q8WUQ7;Q9H2H8;O95391;P52272;P61326;Q15459;P62318;O43390;Q13435;Q96DI7;P38919;O60506;Q9H307;Q9ULR0;Q07955;O94906;P31943;P62314;P61978;P38159;P62304;Q8IYB3;Q86V81;Q96DF8;Q6P2Q9;Q6NZY4;Q9UBB9;P08579;P52597;P14678;Q9Y5S9;Q01081;O75533;P09661;Q15029;Q9P013;Q9HCG8;Q9UQ35;Q9BRR8;P62316;O60508;P62306;P22626;P11940;Q14331;P62308;Q9UMS4;Q99459;Q12874;Q00839;Q9HCS7;O43660;P62310;Q15428}
- 7222 Pathogen[ P0C214] interacts with 60 human partners: {Q6NZY4;P62316;Q9HCS7;Q9ULR0;Q13573;Q14331;P38159;Q6UX04;Q86V81;Q9Y5S9;O60508;P14678;Q15029;P62306;Q6P2Q9;Q15428;Q9H307;P11940;P62308;P08579;O43390;O94906;Q9UMS4;Q07955;Q9H2H8;Q9Y333;P52272;Q9Y3C6;P62314;P07910;Q8IYB3;Q9BRR8;P62310;Q99459;P61326;P38919;Q96DF8;P52597;Q15459;P62318;Q01081;O75533;Q96DI7;Q96BP3;Q12874;P31943;Q9P013;O60506;Q9HCG8;P09661;Q9UQ35;O43290;Q13435;Q00839;P22626;O95391;Q9UNP9;O43660;Q9UBB9}
- 7223 Pathogen[ P03346] interacts with 71 human partners: {Q9Y5S9;P51991;Q12874;Q9BRR8;P61978;Q9ULR0;Q96DF8;O43290;Q9H2H8;Q8IYB3;P09651;Q9Y3C6;P62304;O95391;P08579;Q6UX04;Q9UMS4;O60506;Q9H307;P38919;P07910;Q96BP3;P11940;P31943;Q00839;O43390;Q9HCS7;P22626;O94906;Q9BUQ8;Q9Y333;Q07955;Q9P013;P62318;Q86V81;O60508;O43660;O75643;Q9HCG8;Q13435;P62306;Q6NZY4;Q01081;O75533;P61326;Q15459;Q9UNP9;P42285;Q99459;Q6P2Q9;Q96DI7;Q14562;Q9UQ35;O95926;P62314;P52272;P14678;Q9BZJ0;Q13573;P38159;Q15029;P62316;Q8WUQ7;P52597;P62308;P62310;Q15393;P09661;Q9BRX9;Q15428;Q14331}
- 7224 Pathogen[ Q85601] interacts with 55 human partners: {Q6UX04;Q9BRR8;P61978;Q9ULR0;Q9HCS7;Q9H2H8;O43390;Q8IYB3;Q96BP3;P62304;Q9H307;O60506;Q14331;O95391;Q13573;Q15459;Q9UMS4;P61326;P22626;Q9P013;Q86V81;P62316;O94906;Q07955;Q9UBB9;Q96DI7;P38919;P14678;P11940;P62310;Q13435;P62314;P62306;O60508;P62318;Q15029;P52597;Q6NZY4;Q9Y3C6;Q99459;Q01081;Q9UQ35;O43290;Q6P2Q9;Q00839;O43660;P62308;P38159;Q9Y333;Q9HCG8;P31943;P09661;Q96DF8;Q12874;Q9Y5S9}
- 7225 Pathogen[ P14079] interacts with 55 human partners: {Q99459;Q9Y333;O94906;O60508;O75533;Q96DF8;Q12874;Q9Y5S9;Q6NZY4;Q9P013;P07910;Q13573;Q15029;Q6P2Q9;P62314;Q9HCS7;Q9H307;Q00839;O43290;Q15459;P62306;P14678;Q8IYB3;Q9ULR0;P61326;O95926;Q9UMS4;P11940;Q9BRR8;Q9H2H8;Q9UQ35;Q86V81;P62308;O60506;Q9UBB9;P62304;Q15428;P62316;P62310;Q07955;Q8WUQ7;P61978;P31943;Q01081;Q9HCG8;Q14331;P52597;O43390;P09661;Q6UX04;P62318;Q96BP3;O95391;P22626;P38159}
- 7226 Pathogen[ P03383] interacts with 52 human partners: {Q13573;Q07955;P09661;O43390;Q15459;P62318;Q9UNP9;O43290;P22626;Q15029;Q9HCS7;Q9ULR0;Q9Y5S9;P62316;Q96BP3;Q9H2H8;P62304;P61326;Q6P2Q9;P38919;Q12874;Q9P013;P61978;Q14331;P11940;P31943;Q99459;Q86V81;Q13435;Q6NZY4;O94906;P38159;Q8IYB3;P62314;P62310;P14678;Q9Y333;Q01081;Q9BRR8;Q8WUQ7;Q9H307;Q9UQ35;Q96DF8;P62308;Q9UBB9;Q9HCG8;Q00839;P52597;O95391;Q9UMS4;P62306;Q96DI7}
- 7227 Pathogen[ P03410] interacts with 62 human partners: {Q8WUQ7;Q00839;Q9ULR0;Q01081;P61326;P62304;O60508;Q15029;P61978;P22626;P11940;P62306;P62310;Q6NZY4;Q15393;Q9Y5S9;Q96BP3;Q9Y333;Q9P013;P62308;P14678;P62316;Q9UBB9;Q9UQ35;Q9H2H8;Q9HCS7;O94906;P07910;P08579;Q99459;Q07955;P52597;P31943;P62314;O43660;

Q15428;P09661;Q15459;O75533;Q86V81;P52272;Q9BRR8;Q8IYB3;P38919;Q6UX04;Q9UMS4;Q9Y3C6;Q9UNP9;O60506;Q96DF8;Q6P2Q9;O43290;Q12874;P38159;O95391;Q13573;Q13435;O43390;Q9H307;Q14331;Q9HCG8;P62318}

7228 Pathogen[ P14075] interacts with 52 human partners: {Q9H307;P22626;P62304;P62316;Q13573;Q86V81;P61326;O95391;Q15459;P38159;Q15428;Q9UNP9;P31943;P62306;P62308;O43390;Q9UQ35;O94906;Q9HCG8;Q9ULR0;Q15029;Q99459;Q96DI7;P11940;Q00839;Q13435;P62318;Q12874;Q96DF8;Q6NZY4;Q9UBB9;Q6P2Q9;Q01081;Q9UMS4;P09661;Q8IYB3;Q9Y333;P61978;P14678;Q9HCS7;Q9BRR8;Q9Y5S9;P52597;Q9H2H8;Q14331;P62314;P38919;Q8WUQ7;O43290;Q9P013;P62310;Q07955}

7229 Pathogen[ P0C206] interacts with 59 human partners: {Q9UNP9;Q9UMS4;P14678;O60508;Q07955;P61326;Q01081;Q96BP3;P62304;Q8IYB3;O75533;P61978;Q9H307;Q12874;P62314;P62316;O43390;P22626;Q9UBB9;Q8WUQ7;O43290;Q9Y333;Q13435;Q9UQ35;Q96DF8;Q9BRR8;P38159;O60506;Q13573;Q9Y3C6;P52597;Q9P013;Q6P2Q9;P62318;Q6NZY4;P62306;Q9ULR0;Q99459;Q9HCG8;O94906;Q9H2H8;Q14331;Q96DI7;P09661;O43660;P38919;P62308;O95391;P62310;Q00839;Q9HCS7;Q15459;P11940;P31943;Q15428;Q9Y5S9;Q86V81;Q15029;Q6UX04}

7230 Pathogen[ P03363] interacts with 73 human partners: {O95926;P62314;P38919;Q96DF8;O75643;Q13435;O95391;P52597;Q6NZY4;O60306;Q14331;P51991;Q9HCS7;Q6UX04;Q15393;O75533;Q96BP3;P09651;P08579;Q15459;Q9Y3C6;Q9BRR8;P62318;Q9H307;Q9BRX9;P62304;Q6P2Q9;P11940;Q92620;P61326;P62306;P52272;Q15029;Q9Y333;Q14562;P62316;Q8WUQ7;Q8IYB3;P38159;Q12874;P31943;Q9ULR0;Q86V81;P07910;O43290;Q13573;P22626;P62310;Q9UKM9;Q07955;O43660;O60506;Q01081;P61978;O94906;Q9HCG8;Q15428;Q00839;P62308;Q9P013;Q9UMS4;O43390;P14678;P09661;Q99459;Q9UQ35;Q9Y5S9;Q9H2H8;Q9UNP9;Q9BZJ0;Q96DI7;O60508;P42285}

7231 [Cluster 658]GO:0031258+C cellular\_component [name] lamellipodium membrane [def] "The portion of the plasma membrane surrounding a lamellipodium." [GOC]

7232 Pathogen[ Q2Q067] interacts with 2 human partners: {P23528;O95996}

7233 Pathogen[ P0C214] interacts with 1 human partners: {Q96GD0}

7234 Pathogen[ P03346] interacts with 3 human partners: {Q8WXH0;O95996;P23528}

7235 Pathogen[ Q85601] interacts with 2 human partners: {O95996;P23528}

7236 Pathogen[ P14079] interacts with 5 human partners: {P50552;Q96GD0;P23528;O95996;Q8WXH0}

7237 Pathogen[ P03383] interacts with 1 human partners: {P23528}

7238 Pathogen[ P03410] interacts with 5 human partners: {Q96GD0;P50552;O95996;P23528;Q8WXH0}

7239 Pathogen[ P14075] interacts with 1 human partners: {P23528}

7240 Pathogen[ P0C206] interacts with 4 human partners: {O95996;Q8WXH0;Q96GD0;P23528}

7241 Pathogen[ P03363] interacts with 2 human partners: {O95996;P23528}

7242 [Cluster 659]GO:0035098+C cellular\_component [name] ESC/E(Z) complex [def] "A multimeric protein complex that can methylate lysine-27 and lysine-9 residues of histone H3. In Drosophila the core subunits of the complex include ESC, E(Z), CAF1 (NURF-55) and SU(Z)12. In mammals the core subunits of the complex include EED, EZH2, SUZ12 and RBBP4." [GOC]

7243 Pathogen[ Q2Q067] interacts with 7 human partners: {Q15910;Q92800;Q15022;Q09028;Q92769;O75530;Q16576}

7244 Pathogen[ P0C214] interacts with 7 human partners: {Q15022;O75530;Q15910;Q09028;Q92769;Q16576;Q92800}

7245 Pathogen[ P03346] interacts with 7 human partners: {Q92800;O75530;Q15022;Q92769;Q09028;Q16576;Q15910}

7246 Pathogen[ Q85601] interacts with 7 human partners: {Q15022;Q92769;Q16576;O75530;Q09028;Q15910;Q92800}

7247 Pathogen[ P14079] interacts with 7 human partners: {Q92800;Q16576;O75530;Q92769;Q15910;Q09028;Q15022}

7248 Pathogen[ P03383] interacts with 7 human partners: {Q09028;Q15022;Q92769;Q15910;Q16576;Q92800;O75530}

7249 Pathogen[ P03410] interacts with 7 human partners: {Q16576;Q92800;Q09028;Q92769;Q15910;Q15022;O75530}

7250 Pathogen[ P14075] interacts with 7 human partners: {Q16576;Q15910;Q92800;Q09028;Q92769;Q15022;O75530}

7251 Pathogen[ P0C206] interacts with 7 human partners: {Q92769;O75530;Q92800;Q15910;Q15022;Q16576;Q09028}

7252 Pathogen[ P03363] interacts with 6 human partners: {Q15022;Q09028;Q15910;O75530;Q16576;Q92800}

7253 [Cluster 660]GO:0032587+C cellular\_component [name] ruffle membrane [def] "The portion of the plasma membrane surrounding a ruffle." [GOC]

7254 Pathogen[ Q2Q067] interacts with 9 human partners: {Q14678;Q5T1C6;P23528;Q8IX03;O75122;P23396;P63000;P27815;P61586}

7255 Pathogen[ P0C214] interacts with 12 human partners: {Q8IX03;P63000;P23396;P27815;Q9UM54;O15056;P61586;Q14678;O75122;O76083;Q96GD0;Q5T1C6}

7256 Pathogen[ P03346] interacts with 10 human partners: {Q14678;Q8IX03;O15056;P27815;O75122;P23396;Q9HB21;P23528;P63000;P61586}

7257 Pathogen[ Q85601] interacts with 11 human partners: {P23396;P27815;P63000;O75122;Q14678;Q9HB21;P61586;Q9UM54;P23528;Q8IX03;Q5T1C6}

7258 Pathogen[ P14079] interacts with 14 human partners: {P23396;O43597;Q9UM54;Q96GD0;Q8IX03;P23528;O60610;Q5T1C6;P61586;P27815;Q9HB21}

1;O75122;Q14678;Q9NSN8}  
7259 Pathogen[ P03383] interacts with 7 human  
partners:{Q14678;P63000;P61586;Q8IX03;P23528;Q5T1C6;P23396}  
7260 Pathogen[ P03410] interacts with 14 human  
partners:{O60610;O43597;P63000;Q8IX03;P23396;Q9HB21;Q96GD0;Q9UM54;Q5T1C6;P61586;Q14678;P23528;O75122;P27815}  
7261 Pathogen[ P14075] interacts with 7 human  
partners:{Q5T1C6;P23528;P23396;P61586;P63000;Q14678;Q8IX03}  
7262 Pathogen[ P0C206] interacts with 13 human  
partners:{Q9UM54;Q14678;P61586;O75122;P27815;P23396;P63000;Q5T1C6;O43597;Q9HB21;Q96GD0;P23528;Q8IX03}  
7263 Pathogen[ P03363] interacts with 9 human  
partners:{P23396;P63000;P27815;O15056;P23528;Q9C004;Q8IX03;Q14678;Q9NSN8}  
7264

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1 [Section 10] biological processes that PARTIAL HTLV viruses may interfere with
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3
4 [Cluster 1]GO:1900127+P
5 Pathogen[ Q2Q067] interacts with 1 human partners:{P19838}
6 Pathogen[ P0C214] interacts with 1 human partners:{P19838}
7 Pathogen[ P03346] interacts with 1 human partners:{P19838}
8 Pathogen[ Q85601] interacts with 1 human partners:{P19838}
9 Pathogen[ P03383] interacts with 1 human partners:{P19838}
10 Pathogen[ P03410] interacts with 1 human partners:{P19838}
11 Pathogen[ P14075] interacts with 1 human partners:{P19838}
12 Pathogen[ P0C206] interacts with 1 human partners:{P19838}
13 Pathogen[ P03363] interacts with 1 human partners:{P19838}
14 [Cluster 2]GO:0009305+P biological_process [name] protein biotinylation [def] "The
addition of biotin (vitamin B7 / vitamin H) to a protein amino acid." [GOC
15 Pathogen[ P0C214] interacts with 1 human partners:{P50747}
16 [Cluster 3]GO:0009186+P biological_process [name] deoxyribonucleoside diphosphate
metabolic process [def] "The chemical reactions and pathways involving a
deoxyribonucleoside diphosphate, a compound consisting of a nucleobase linked to a
deoxyribose sugar esterified with diphosphate on the sugar." [GOC
17 Pathogen[ Q2Q067] interacts with 2 human partners:{P31350;Q7LG56}
18 Pathogen[ P0C214] interacts with 2 human partners:{P31350;Q7LG56}
19 Pathogen[ P03346] interacts with 2 human partners:{P31350;Q7LG56}
20 Pathogen[ Q85601] interacts with 2 human partners:{P31350;Q7LG56}
21 Pathogen[ P14079] interacts with 2 human partners:{P31350;Q7LG56}
22 Pathogen[ P03383] interacts with 1 human partners:{P31350}
23 Pathogen[ P03410] interacts with 2 human partners:{P31350;Q7LG56}
24 Pathogen[ P14075] interacts with 1 human partners:{P31350}
25 Pathogen[ P0C206] interacts with 2 human partners:{Q7LG56;P31350}
26 [Cluster 4]GO:0006554+P biological_process [name] lysine catabolic process [def] "The
chemical reactions and pathways resulting in the breakdown of lysine,
2,6-diaminohexanoic acid." [GOC
27 Pathogen[ Q2Q067] interacts with 1 human partners:{P49419}
28 Pathogen[ P0C214] interacts with 3 human partners:{P49419;P09622;P36957}
29 Pathogen[ P03346] interacts with 1 human partners:{P49419}
30 Pathogen[ Q85601] interacts with 1 human partners:{P49419}
31 Pathogen[ P03383] interacts with 1 human partners:{P49419}
32 Pathogen[ P03410] interacts with 1 human partners:{P49419}
33 Pathogen[ P14075] interacts with 1 human partners:{P49419}
34 Pathogen[ P0C206] interacts with 1 human partners:{P49419}
35 Pathogen[ P03363] interacts with 1 human partners:{P49419}
36 [Cluster 5]GO:0019388+P biological_process [name] galactose catabolic process [def]
"The chemical reactions and pathways resulting in the breakdown of galactose, the
aldohexose galacto-hexose." [ISBN
37 Pathogen[ Q2Q067] interacts with 2 human partners:{P36871;P07902}
38 Pathogen[ P0C214] interacts with 4 human partners:{P36871;Q15124;P07902;P16278}
39 Pathogen[ P03346] interacts with 2 human partners:{P36871;P16278}
40 Pathogen[ Q85601] interacts with 3 human partners:{Q15124;P36871;P07902}
41 Pathogen[ P14079] interacts with 4 human partners:{P16278;Q15124;P07902;P36871}
42 Pathogen[ P03383] interacts with 1 human partners:{P07902}
43 Pathogen[ P03410] interacts with 4 human partners:{P36871;P07902;P16278;Q15124}
44 Pathogen[ P14075] interacts with 1 human partners:{P07902}
45 Pathogen[ P0C206] interacts with 4 human partners:{Q15124;P07902;P16278;P36871}
46 [Cluster 6]GO:0071392+P biological_process [name] cellular response to estradiol
stimulus [def] "Any process that results in a change in state or activity of a cell
(in terms of movement, secretion, enzyme production, gene expression, etc.) as a result
of stimulus by estradiol, a C18 steroid hormone hydroxylated at C3 and C17 that acts as
a potent estrogen." [GOC
47 Pathogen[ Q2Q067] interacts with 1 human partners:{P35548}
48 Pathogen[ P0C214] interacts with 1 human partners:{P35548}
49 Pathogen[ P03346] interacts with 1 human partners:{P35548}
50 Pathogen[ Q85601] interacts with 1 human partners:{P35548}
51 Pathogen[ P03383] interacts with 1 human partners:{P35548}
52 Pathogen[ P03410] interacts with 1 human partners:{P35548}
53 Pathogen[ P14075] interacts with 1 human partners:{P35548}
54 Pathogen[ P0C206] interacts with 1 human partners:{P35548}
55 Pathogen[ P03363] interacts with 1 human partners:{P35548}
56 [Cluster 7]GO:0034971+P biological_process [name] histone H3-R17 methylation [def]
"The modification of histone H3 by addition of a methyl group to arginine at position 17
of the histone." [GOC
57 Pathogen[ Q2Q067] interacts with 1 human partners:{Q86X55}
58 Pathogen[ P0C214] interacts with 1 human partners:{Q86X55}
59 Pathogen[ P03346] interacts with 1 human partners:{Q86X55}
60 Pathogen[ Q85601] interacts with 1 human partners:{Q86X55}
61 Pathogen[ P03383] interacts with 1 human partners:{Q86X55}
62 Pathogen[ P03410] interacts with 1 human partners:{Q86X55}

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63 Pathogen[ P14075] interacts with 1 human partners:{Q86X55}

64 Pathogen[ POC206] interacts with 1 human partners:{Q86X55}

65 Pathogen[ P03363] interacts with 1 human partners:{Q86X55}

66 [Cluster 8]GO:0002317+P biological\_process [name] plasma cell differentiation [def] "The process in which a B cell acquires the specialized features of a plasma cell. A plasma cell is a lymphocyte which develops from a B cell and produces high amounts of antibody." [GOC

67 Pathogen[ P03346] interacts with 1 human partners:{Q8TAU0}

68 Pathogen[ POC206] interacts with 1 human partners:{Q8TAU0}

69 Pathogen[ P03363] interacts with 1 human partners:{Q8TAU0}

70 [Cluster 9]GO:0002842+P biological\_process [name] positive regulation of T cell mediated immune response to tumor cell [def] "Any process that activates or increases the frequency, rate, or extent of a T cell mediated immune response to tumor cell." [GOC

71 Pathogen[ POC214] interacts with 1 human partners:{P10809}

72 [Cluster 10]GO:0090026+P biological\_process [name] positive regulation of monocyte chemotaxis [def] "Any process that increases the frequency, rate, or extent of monocyte chemotaxis." [GOC

73 Pathogen[ POC214] interacts with 1 human partners:{P05121}

74 Pathogen[ Q85601] interacts with 1 human partners:{P05121}

75 Pathogen[ P03410] interacts with 1 human partners:{P05121}

76 Pathogen[ POC206] interacts with 1 human partners:{P05121}

77 [Cluster 11]GO:0071651+P biological\_process [name] positive regulation of chemokine (C-C motif) ligand 5 production [def] "Any process that activates or increases the frequency, rate, or extent of production of chemokine (C-C motif) ligand 5." [GOC

78 Pathogen[ P14079] interacts with 1 human partners:{Q7Z434}

79 Pathogen[ P03410] interacts with 1 human partners:{Q7Z434}

80 [Cluster 12]GO:2000145+P biological\_process [name] regulation of cell motility [def] "Any process that modulates the frequency, rate or extent of cell motility." [GOC

81 Pathogen[ Q2Q067] interacts with 1 human partners:{Q00534}

82 Pathogen[ POC214] interacts with 1 human partners:{Q00534}

83 Pathogen[ P03346] interacts with 1 human partners:{Q00534}

84 Pathogen[ Q85601] interacts with 1 human partners:{Q00534}

85 Pathogen[ P03383] interacts with 1 human partners:{Q00534}

86 Pathogen[ P03410] interacts with 1 human partners:{Q00534}

87 Pathogen[ P14075] interacts with 1 human partners:{Q00534}

88 Pathogen[ POC206] interacts with 1 human partners:{Q00534}

89 Pathogen[ P03363] interacts with 1 human partners:{Q00534}

90 [Cluster 13]GO:0000115+P biological\_process [name] regulation of transcription involved in S phase of mitotic cell cycle [def] "A cell cycle process that regulates transcription such that the target genes are transcribed as part of the S phase of the mitotic cell cycle." [GOC

91 Pathogen[ P03346] interacts with 1 human partners:{O14901}

92 Pathogen[ P14079] interacts with 1 human partners:{O14901}

93 Pathogen[ P03410] interacts with 1 human partners:{O14901}

94 Pathogen[ POC206] interacts with 1 human partners:{O14901}

95 Pathogen[ P03363] interacts with 1 human partners:{O14901}

96 [Cluster 14]GO:0007212+P biological\_process [name] dopamine receptor signaling pathway [def] "The series of molecular signals generated as a consequence of a dopamine receptor binding to one of its physiological ligands." [GOC

97 Pathogen[ P03346] interacts with 1 human partners:{Q9BXX1}

98 Pathogen[ P03363] interacts with 1 human partners:{Q9BXX1}

99 [Cluster 15]GO:0006021+P biological\_process [name] inositol biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of inositol, 1,2,3,4,5,6-cyclohexanehexol, a growth factor for animals and microorganisms." [CHEBI

100 Pathogen[ P14079] interacts with 1 human partners:{Q9NPH2}

101 Pathogen[ P03410] interacts with 1 human partners:{Q9NPH2}

102 [Cluster 16]GO:0046680+P biological\_process [name] response to DDT [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a DDT stimulus. DDT, dichlorodiphenyltrichloroethane, is a chlorinated hydrocarbon pesticide moderately toxic to humans and other animals." [ISBN

103 Pathogen[ Q2Q067] interacts with 1 human partners:{P14635}

104 Pathogen[ POC214] interacts with 1 human partners:{P14635}

105 Pathogen[ P03346] interacts with 1 human partners:{P14635}

106 Pathogen[ Q85601] interacts with 1 human partners:{P14635}

107 Pathogen[ P14079] interacts with 1 human partners:{P14635}

108 Pathogen[ P03383] interacts with 1 human partners:{P14635}

109 Pathogen[ P03410] interacts with 1 human partners:{P14635}

110 Pathogen[ P14075] interacts with 1 human partners:{P14635}

111 Pathogen[ POC206] interacts with 1 human partners:{P14635}

112 [Cluster 17]GO:0010882+P biological\_process [name] regulation of cardiac muscle contraction by calcium ion signaling [def] "Any process that modulates the frequency, rate or extent of cardiac muscle contraction by changing the calcium ion signals that trigger contraction." [GOC

113 Pathogen[ Q2Q067] interacts with 1 human partners:{P56524}

114 Pathogen[ POC214] interacts with 1 human partners:{P56524}

115 Pathogen[ P03346] interacts with 1 human partners:{P56524}

116 Pathogen[ Q85601] interacts with 1 human partners:{P56524}

117 Pathogen[ P14079] interacts with 1 human partners:{P56524}

118 Pathogen[ P03383] interacts with 1 human partners:{P56524}

119 Pathogen[ P03410] interacts with 1 human partners:{P56524}

120 Pathogen[ P14075] interacts with 1 human partners:{P56524}

121 Pathogen[ P0C206] interacts with 1 human partners:{P56524}

122 [Cluster 18]GO:0070889+P biological\_process [name] platelet alpha granule organization [def] "A process that is carried out at the cellular level which results in the assembly, arrangement of constituent parts, or disassembly of a platelet alpha granule. A platelet alpha granule is a secretory organelle found in blood platelets." [GOC

123 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9H267}

124 Pathogen[ P03346] interacts with 1 human partners:{Q9H267}

125 Pathogen[ Q85601] interacts with 1 human partners:{Q9H267}

126 Pathogen[ P14079] interacts with 1 human partners:{Q9H267}

127 Pathogen[ P03410] interacts with 1 human partners:{Q9H267}

128 Pathogen[ P0C206] interacts with 1 human partners:{Q9H267}

129 Pathogen[ P03363] interacts with 1 human partners:{Q9H267}

130 [Cluster 19]GO:0016198+P biological\_process [name] axon choice point recognition [def] "The recognition of molecules at a choice point by an axon growth cone\_ at a choice point the growth cone determines the direction of its future growth." [PMID

131 Pathogen[ Q85601] interacts with 1 human partners:{P17677}

132 Pathogen[ P14079] interacts with 1 human partners:{P17677}

133 Pathogen[ P03410] interacts with 1 human partners:{P17677}

134 Pathogen[ P0C206] interacts with 1 human partners:{P17677}

135 [Cluster 20]GO:0035572+P biological\_process [name] N-terminal peptidyl-serine dimethylation [def] "The dimethylation of the N-terminal serine of proteins to form the derivative N,N-dimethylserine." [PMID

136 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BV86}

137 Pathogen[ P0C214] interacts with 1 human partners:{Q9BV86}

138 Pathogen[ P03346] interacts with 1 human partners:{Q9BV86}

139 Pathogen[ Q85601] interacts with 1 human partners:{Q9BV86}

140 Pathogen[ P14079] interacts with 1 human partners:{Q9BV86}

141 Pathogen[ P03410] interacts with 1 human partners:{Q9BV86}

142 Pathogen[ P0C206] interacts with 1 human partners:{Q9BV86}

143 Pathogen[ P03363] interacts with 1 human partners:{Q9BV86}

144 [Cluster 21]GO:0033003+P biological\_process [name] regulation of mast cell activation [def] "Any process that modulates the frequency, rate, or extent of mast cell activation." [GOC

145 Pathogen[ Q2Q067] interacts with 1 human partners:{O15162}

146 Pathogen[ P0C214] interacts with 1 human partners:{O15162}

147 Pathogen[ P03346] interacts with 1 human partners:{O15162}

148 Pathogen[ Q85601] interacts with 1 human partners:{O15162}

149 Pathogen[ P14079] interacts with 1 human partners:{O15162}

150 Pathogen[ P03383] interacts with 1 human partners:{O15162}

151 Pathogen[ P03410] interacts with 1 human partners:{O15162}

152 Pathogen[ P14075] interacts with 1 human partners:{O15162}

153 Pathogen[ P0C206] interacts with 1 human partners:{O15162}

154 [Cluster 22]GO:0035964+P biological\_process [name] COPI-coated vesicle budding [def] "The evagination of a Golgi membrane, resulting in formation of a COPI-coated vesicle." [GOC

155 Pathogen[ P03346] interacts with 1 human partners:{P49755}

156 Pathogen[ P14079] interacts with 1 human partners:{P49755}

157 Pathogen[ P0C206] interacts with 1 human partners:{P49755}

158 [Cluster 23]GO:0045542+P biological\_process [name] positive regulation of cholesterol biosynthetic process [def] "Any process that activates or increases the frequency, rate or extent of the chemical reactions and pathways resulting in the formation of cholesterol." [GOC

159 Pathogen[ Q2Q067] interacts with 1 human partners:{P36956}

160 Pathogen[ P03346] interacts with 1 human partners:{P36956}

161 Pathogen[ Q85601] interacts with 1 human partners:{P36956}

162 Pathogen[ P14079] interacts with 1 human partners:{P36956}

163 Pathogen[ P03410] interacts with 1 human partners:{P36956}

164 Pathogen[ P0C206] interacts with 1 human partners:{P36956}

165 [Cluster 24]GO:0006497+P biological\_process [name] protein lipidation [def] "The covalent attachment of lipid groups to an amino acid in a protein." [GOC

166 Pathogen[ P14079] interacts with 1 human partners:{Q9H0Y0}

167 Pathogen[ P03410] interacts with 2 human partners:{Q9H0Y0;P55157}

168 [Cluster 25]GO:0007042+P biological\_process [name] lysosomal lumen acidification [def] "Any process that reduces the pH of the lysosomal lumen, measured by the concentration of the hydrogen ion." [GOC

169 Pathogen[ P14079] interacts with 2 human partners:{O75503;Q9NWW5}

170 Pathogen[ P03410] interacts with 2 human partners:{Q9NWW5;O75503}

171 [Cluster 26]GO:0030260+P biological\_process [name] entry into host cell [def] "The invasion by an organism of a cell of its host organism. The host is defined as the



larger of the organisms involved in a symbiotic interaction." [GOC

172 Pathogen[ Q2Q067] interacts with 1 human partners:{P62937}

173 Pathogen[ P03346] interacts with 1 human partners:{P62937}

174 Pathogen[ Q85601] interacts with 1 human partners:{P62937}

175 Pathogen[ P14079] interacts with 1 human partners:{P62937}

176 Pathogen[ P03383] interacts with 1 human partners:{P62937}

177 Pathogen[ P03410] interacts with 1 human partners:{P62937}

178 Pathogen[ P14075] interacts with 1 human partners:{P62937}

179 Pathogen[ P0C206] interacts with 1 human partners:{P62937}

180 Pathogen[ P03363] interacts with 1 human partners:{P62937}

181 [Cluster 27]GO:0031987+P biological\_process [name] locomotion involved in locomotory behavior [def] "Self-propelled movement of a cell or organism from one location to another in a behavioral context\_ the aspect of locomotory behavior having to do with movement." [GOC

182 Pathogen[ P14079] interacts with 1 human partners:{Q9NWW5}

183 Pathogen[ P03410] interacts with 1 human partners:{Q9NWW5}

184 [Cluster 28]GO:0060806+P biological\_process [name] negative regulation of cell differentiation involved in embryonic placenta development [def] "Any process that decreases the rate, frequency or extent of cell differentiation that contributes to the progression of the placenta over time, from its initial condition to its mature state." [GOC

185 Pathogen[ P03346] interacts with 1 human partners:{O95863}

186 [Cluster 29]GO:0051923+P biological\_process [name] sulfation [def] "The addition of a sulfate group to a molecule." [http

187 Pathogen[ P0C214] interacts with 1 human partners:{Q06520}

188 Pathogen[ P03346] interacts with 1 human partners:{Q06520}

189 Pathogen[ P03363] interacts with 1 human partners:{Q06520}

190 [Cluster 30]GO:0018125+P biological\_process [name] peptidyl-cysteine methylation [def] "The methylation of peptidyl-cysteine to form peptidyl-S-methyl-L-cysteine." [RESID

191 Pathogen[ P03346] interacts with 1 human partners:{P20340}

192 [Cluster 31]GO:0007271+P biological\_process [name] synaptic transmission, cholinergic [def] "The process of communication from a neuron to a target (neuron, muscle, or secretory cell) across a synapse using the neurotransmitter acetylcholine." [GOC

193 Pathogen[ Q2Q067] interacts with 1 human partners:{P15559}

194 Pathogen[ P0C214] interacts with 1 human partners:{P15559}

195 Pathogen[ P03346] interacts with 1 human partners:{P15559}

196 Pathogen[ P14079] interacts with 1 human partners:{P15559}

197 Pathogen[ P03410] interacts with 1 human partners:{P15559}

198 Pathogen[ P14075] interacts with 1 human partners:{P15559}

199 Pathogen[ P0C206] interacts with 1 human partners:{P15559}

200 [Cluster 32]GO:0070816+P biological\_process [name] phosphorylation of RNA polymerase II C-terminal domain [def] "The process of introducing a phosphate group on to an amino acid residue in the C-terminal domain of RNA polymerase II. Typically, this occurs during the transcription cycle and results in production of an RNA polymerase II enzyme where the carboxy-terminal domain (CTD) of the largest subunit is extensively phosphorylated, often referred to as hyperphosphorylated or the II(0) form. Specific types of phosphorylation within the CTD are usually associated with specific regions of genes, though there are exceptions. The phosphorylation state regulates the association of specific complexes such as the capping enzyme or 3'-RNA processing machinery to the elongating RNA polymerase complex." [GOC

201 Pathogen[ P14079] interacts with 1 human partners:{Q14004}

202 Pathogen[ P03383] interacts with 1 human partners:{Q9NYV4}

203 Pathogen[ P14075] interacts with 1 human partners:{Q9NYV4}

204 [Cluster 33]GO:0032817+P biological\_process [name] regulation of natural killer cell proliferation [def] "Any process that modulates the frequency, rate or extent of natural killer cell proliferation." [GOC

205 Pathogen[ P03346] interacts with 1 human partners:{Q9Y2R2}

206 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y2R2}

207 Pathogen[ P03363] interacts with 1 human partners:{Q9Y2R2}

208 [Cluster 34]GO:0035845+P biological\_process [name] photoreceptor cell outer segment organization [def] "A process that is carried out at the cellular level and results in the assembly, arrangement of constituent parts, or disassembly of the outer segment of a photoreceptor cell, a sensory cell that reacts to the presence of light. The outer segment of the photoreceptor cell contains the light-absorbing materials." [ISBN

209 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NS56}

210 Pathogen[ P0C214] interacts with 1 human partners:{Q9NS56}

211 Pathogen[ P03346] interacts with 2 human partners:{Q9NS56;Q8N157}

212 Pathogen[ Q85601] interacts with 1 human partners:{Q9NS56}

213 Pathogen[ P14079] interacts with 4 human partners:{Q8N157;P56715;Q9NS56;O15259}

214 Pathogen[ P03410] interacts with 3 human partners:{O15259;Q8N157;P56715}

215 Pathogen[ P0C206] interacts with 3 human partners:{Q9NS56;P56715;Q8N157}

216 Pathogen[ P03363] interacts with 3 human partners:{P56715;Q8N157;O15259}

217 [Cluster 35]GO:0044320+P biological\_process [name] cellular response to leptin stimulus [def] "Any process that results in a change in state or activity of a cell

(in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a leptin stimulus. Leptin is a hormone manufactured primarily in the adipocytes of white adipose tissue, and the level of circulating leptin is directly proportional to the total amount of fat in the body. It plays a key role in regulating energy intake and energy expenditure, including appetite and metabolism." [GOC

218 Pathogen[ Q2Q067] interacts with 1 human partners:{Q7Z2X4}

219 Pathogen[ P0C214] interacts with 1 human partners:{Q7Z2X4}

220 Pathogen[ P03346] interacts with 1 human partners:{Q7Z2X4}

221 Pathogen[ Q85601] interacts with 1 human partners:{Q7Z2X4}

222 Pathogen[ P14079] interacts with 2 human partners:{P10109;Q7Z2X4}

223 Pathogen[ P03410] interacts with 2 human partners:{Q7Z2X4;P10109}

224 Pathogen[ P0C206] interacts with 1 human partners:{Q7Z2X4}

225 [Cluster 36]GO:0045416+P biological\_process [name] positive regulation of interleukin-8 biosynthetic process [def] "Any process that activates or increases the frequency, rate or extent of the chemical reactions and pathways resulting in the formation of interleukin-8." [GOC

226 Pathogen[ Q2Q067] interacts with 1 human partners:{O95999}

227 Pathogen[ P0C214] interacts with 1 human partners:{O95999}

228 Pathogen[ P03346] interacts with 1 human partners:{O95999}

229 Pathogen[ Q85601] interacts with 1 human partners:{O95999}

230 Pathogen[ P14079] interacts with 1 human partners:{O95999}

231 Pathogen[ P03383] interacts with 1 human partners:{O95999}

232 Pathogen[ P03410] interacts with 1 human partners:{O95999}

233 Pathogen[ P14075] interacts with 1 human partners:{O95999}

234 Pathogen[ P0C206] interacts with 1 human partners:{O95999}

235 [Cluster 37]GO:0072513+P biological\_process [name] positive regulation of secondary heart field cardioblast proliferation [def] "Any process that activates or increases the frequency, rate or extent of cardioblast proliferation in the second heart field. A cardioblast is a cardiac precursor cell. It is a cell that has been committed to a cardiac fate, but will undergo more cell division rather than terminally differentiating." [GOC

236 Pathogen[ Q2Q067] interacts with 1 human partners:{Q99502}

237 Pathogen[ P0C214] interacts with 1 human partners:{Q99502}

238 Pathogen[ P03346] interacts with 2 human partners:{Q99502;Q15475}

239 Pathogen[ Q85601] interacts with 1 human partners:{Q99502}

240 Pathogen[ P14079] interacts with 1 human partners:{Q99502}

241 Pathogen[ P03410] interacts with 1 human partners:{Q99502}

242 Pathogen[ P14075] interacts with 1 human partners:{Q99502}

243 Pathogen[ P0C206] interacts with 1 human partners:{Q99502}

244 [Cluster 38]GO:0021952+P biological\_process [name] central nervous system projection neuron axonogenesis [def] "Generation of a long process of a CNS neuron, that carries efferent (outgoing) action potentials from the cell body towards target cells in a different central nervous system region." [GO\_REF

245 Pathogen[ P03346] interacts with 1 human partners:{O75592}

246 [Cluster 39]GO:001553+P biological\_process [name] luteinization [def] "The set of processes resulting in differentiation of theca and granulosa cells into luteal cells and in the formation of a corpus luteum after ovulation." [http

247 Pathogen[ P03346] interacts with 2 human partners:{Q9HB21;Q13285}

248 Pathogen[ Q85601] interacts with 1 human partners:{Q9HB21}

249 Pathogen[ P14079] interacts with 1 human partners:{Q9HB21}

250 Pathogen[ P03410] interacts with 1 human partners:{Q9HB21}

251 Pathogen[ P0C206] interacts with 1 human partners:{Q9HB21}

252 [Cluster 40]GO:1900275+P

253 Pathogen[ P0C214] interacts with 1 human partners:{Q96G01}

254 Pathogen[ P03346] interacts with 1 human partners:{Q96G01}

255 Pathogen[ Q85601] interacts with 1 human partners:{Q96G01}

256 Pathogen[ P14079] interacts with 1 human partners:{Q96G01}

257 Pathogen[ P03410] interacts with 1 human partners:{Q96G01}

258 Pathogen[ P0C206] interacts with 1 human partners:{Q96G01}

259 [Cluster 41]GO:0071803+P biological\_process [name] positive regulation of podosome assembly [def] "Any process that activates or increases the rate or extent of podosome assembly." [GOC

260 Pathogen[ P14079] interacts with 1 human partners:{P04141}

261 Pathogen[ P03410] interacts with 1 human partners:{P04141}

262 [Cluster 42]GO:0060046+P biological\_process [name] regulation of acrosome reaction [def] "Any process that modulates the frequency, rate or extent of the acrosome reaction." [GOC

263 Pathogen[ P0C214] interacts with 1 human partners:{Q9UK55}

264 [Cluster 43]GO:0070050+P biological\_process [name] neuron homeostasis [def] "The cellular homeostatic process that preserves a neuron in a stable, differentiated functional and structural state." [GOC

265 Pathogen[ P0C214] interacts with 1 human partners:{Q96C11}

266 Pathogen[ P14079] interacts with 1 human partners:{Q96C11}

267 Pathogen[ P03410] interacts with 1 human partners:{Q96C11}

268 Pathogen[ P14075] interacts with 1 human partners:{Q96C11}

269 Pathogen[ P0C206] interacts with 1 human partners:{Q96C11}

270 [Cluster 44]GO:0048247+P biological\_process [name] lymphocyte chemotaxis [def] "The directed movement of a lymphocyte in response to an external stimulus." [GOC]

271 Pathogen[ P14079] interacts with 1 human partners:{P0DJ18}

272 Pathogen[ P03410] interacts with 1 human partners:{P0DJ18}

273 [Cluster 45]GO:0046339+P biological\_process [name] diacylglycerol metabolic process [def] "The chemical reactions and pathways involving diacylglycerol, a glycerol molecule substituted on the 1 and 2 hydroxyl groups with long chain fatty acyl residues. DAG is a normal intermediate in the biosynthesis of phosphatidyl phospholipids and is released from them by phospholipase C activity. DAG from phosphatidyl inositol polyphosphates is important in signal transduction." [CHEBI]

274 Pathogen[ P14079] interacts with 1 human partners:{Q32NB8}

275 [Cluster 46]GO:0090045+P biological\_process [name] positive regulation of deacetylase activity [def] "Any process that activates or increases the frequency, rate or extent of deacetylase activity, the catalysis of the hydrolysis of an acetyl group or groups from a substrate molecule." [GOC]

276 Pathogen[ Q2Q067] interacts with 1 human partners:{P49354}

277 Pathogen[ P0C214] interacts with 1 human partners:{P49354}

278 Pathogen[ P03346] interacts with 1 human partners:{P49354}

279 Pathogen[ Q85601] interacts with 1 human partners:{P49354}

280 Pathogen[ P14079] interacts with 2 human partners:{P49354;P45983}

281 Pathogen[ P03410] interacts with 1 human partners:{P49354}

282 Pathogen[ P0C206] interacts with 1 human partners:{P49354}

283 Pathogen[ P03363] interacts with 1 human partners:{P49354}

284 [Cluster 47]GO:0006747+P biological\_process [name] FAD biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of FAD, the oxidized form of flavin-adenine dinucleotide." [CHEBI]

285 Pathogen[ P0C214] interacts with 1 human partners:{Q8NFF5}

286 Pathogen[ P14079] interacts with 1 human partners:{Q8NFF5}

287 Pathogen[ P03410] interacts with 1 human partners:{Q8NFF5}

288 [Cluster 48]GO:0090181+P biological\_process [name] regulation of cholesterol metabolic process [def] "Any process that modulates the rate, frequency, or extent of cholesterol metabolism, the chemical reactions and pathways involving cholesterol, cholest-5-en-3 beta-ol, the principal sterol of vertebrates and the precursor of many steroids, including bile acids and steroid hormones." [GOC]

289 Pathogen[ P14079] interacts with 1 human partners:{Q96S06}

290 Pathogen[ P03410] interacts with 1 human partners:{Q96S06}

291 Pathogen[ P0C206] interacts with 1 human partners:{Q96S06}

292 [Cluster 49]GO:0050869+P biological\_process [name] negative regulation of B cell activation [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of B cell activation." [GOC]

293 Pathogen[ P03346] interacts with 2 human partners:{Q9H6Q3;Q9NSI8}

294 Pathogen[ Q85601] interacts with 1 human partners:{Q9H6Q3}

295 Pathogen[ P14079] interacts with 1 human partners:{Q9H6Q3}

296 Pathogen[ P03410] interacts with 1 human partners:{Q9H6Q3}

297 Pathogen[ P0C206] interacts with 1 human partners:{Q9H6Q3}

298 Pathogen[ P03363] interacts with 2 human partners:{Q9NSI8;Q9H6Q3}

299 [Cluster 50]GO:0021831+P biological\_process [name] embryonic olfactory bulb interneuron precursor migration [def] "The directed movement of individual interneuron precursors during the embryonic development of the olfactory bulb." [GO\_REF]

300 Pathogen[ Q2Q067] interacts with 1 human partners:{P63000}

301 Pathogen[ P0C214] interacts with 1 human partners:{P63000}

302 Pathogen[ P03346] interacts with 2 human partners:{Q96QS3;P63000}

303 Pathogen[ Q85601] interacts with 1 human partners:{P63000}

304 Pathogen[ P03383] interacts with 1 human partners:{P63000}

305 Pathogen[ P03410] interacts with 1 human partners:{P63000}

306 Pathogen[ P14075] interacts with 1 human partners:{P63000}

307 Pathogen[ P0C206] interacts with 1 human partners:{P63000}

308 Pathogen[ P03363] interacts with 2 human partners:{P63000;Q96QS3}

309 [Cluster 51]GO:0032913+P biological\_process [name] negative regulation of transforming growth factor beta3 production [def] "Any process that stops, prevents, or reduces the frequency, rate, or extent of production of transforming growth factor-beta3." [GOC]

310 Pathogen[ Q2Q067] interacts with 1 human partners:{P25063}

311 Pathogen[ P0C214] interacts with 1 human partners:{P25063}

312 Pathogen[ P03346] interacts with 1 human partners:{P25063}

313 Pathogen[ P14079] interacts with 1 human partners:{P25063}

314 Pathogen[ P03383] interacts with 1 human partners:{P25063}

315 Pathogen[ P03410] interacts with 1 human partners:{P25063}

316 Pathogen[ P14075] interacts with 1 human partners:{P25063}

317 Pathogen[ P0C206] interacts with 1 human partners:{P25063}

318 [Cluster 52]GO:0044091+P biological\_process [name] membrane biogenesis [def] "A cellular process that results in the biosynthesis of constituent macromolecules, assembly, and arrangement of constituent parts of a membrane." [GOC]

319 Pathogen[ P03346] interacts with 1 human partners:{Q96A65}

320 Pathogen[ Q85601] interacts with 1 human partners:{Q96A65}

321 Pathogen[ P14079] interacts with 1 human partners:{Q96A65}

322 Pathogen[ P03410] interacts with 1 human partners:{Q96A65}

323 Pathogen[ P0C206] interacts with 1 human partners:{Q96A65}

324 Pathogen[ P03363] interacts with 1 human partners:{Q96A65}

325 [Cluster 53]GO:0042640+P biological\_process [name] anagen [def] "The growth phase of the hair cycle. Lasts, for example, about 3 to 6 years for human scalp hair." [PMID

326 Pathogen[ Q2Q067] interacts with 2 human partners:{P31749;P35548}

327 Pathogen[ P0C214] interacts with 2 human partners:{P35548;P31749}

328 Pathogen[ P03346] interacts with 2 human partners:{P35548;P31749}

329 Pathogen[ Q85601] interacts with 2 human partners:{P31749;P35548}

330 Pathogen[ P03383] interacts with 2 human partners:{P31749;P35548}

331 Pathogen[ P03410] interacts with 2 human partners:{P31749;P35548}

332 Pathogen[ P14075] interacts with 2 human partners:{P35548;P31749}

333 Pathogen[ P0C206] interacts with 2 human partners:{P31749;P35548}

334 Pathogen[ P03363] interacts with 2 human partners:{P35548;P31749}

335 [Cluster 54]GO:2001294+P

336 Pathogen[ P14079] interacts with 1 human partners:{O95822}

337 Pathogen[ P03410] interacts with 1 human partners:{O95822}

338 [Cluster 55]GO:0010822+P biological\_process [name] positive regulation of mitochondrion organization [def] "Any process that increases the frequency, rate or extent of a process involved in the formation, arrangement of constituent parts, or disassembly of a mitochondrion." [GOC

339 Pathogen[ P0C214] interacts with 1 human partners:{Q8TDB4}

340 Pathogen[ P03346] interacts with 1 human partners:{Q8TDB4}

341 Pathogen[ Q85601] interacts with 1 human partners:{Q8TDB4}

342 Pathogen[ P14079] interacts with 1 human partners:{Q8TDB4}

343 Pathogen[ P03383] interacts with 1 human partners:{Q8TDB4}

344 Pathogen[ P03410] interacts with 1 human partners:{Q8TDB4}

345 Pathogen[ P14075] interacts with 1 human partners:{Q8TDB4}

346 Pathogen[ P0C206] interacts with 1 human partners:{Q8TDB4}

347 [Cluster 56]GO:0030042+P biological\_process [name] actin filament depolymerization [def] "Disassembly of actin filaments by the removal of actin monomers from a filament." [GOC

348 Pathogen[ P03346] interacts with 1 human partners:{Q8TDZ2}

349 Pathogen[ P14079] interacts with 2 human partners:{P09327;Q8TDZ2}

350 Pathogen[ P03410] interacts with 1 human partners:{Q8TDZ2}

351 Pathogen[ P0C206] interacts with 1 human partners:{Q8TDZ2}

352 [Cluster 57]GO:0032000+P biological\_process [name] positive regulation of fatty acid beta-oxidation [def] "Any process that activates or increases the frequency, rate or extent of fatty acid beta-oxidation." [GOC

353 Pathogen[ P03346] interacts with 1 human partners:{P07148}

354 Pathogen[ P14079] interacts with 1 human partners:{P31751}

355 [Cluster 58]GO:0009972+P biological\_process [name] cytidine deamination [def] "The removal of amino group in the presence of water." [GOC

356 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9GZX7;Q9HC16}

357 Pathogen[ P0C214] interacts with 2 human partners:{Q9HC16;Q9GZX7}

358 Pathogen[ Q85601] interacts with 2 human partners:{Q9HC16;Q9GZX7}

359 Pathogen[ P14079] interacts with 4 human partners:{P41238;P31941;Q9HC16;Q9GZX7}

360 Pathogen[ P03410] interacts with 5 human partners:{P41238;Q9HC16;Q9GZX7;P31941;Q6NTF7}

361 Pathogen[ P0C206] interacts with 5 human partners:{Q9GZX7;P31941;Q6NTF7;Q9HC16;P41238}

362 [Cluster 59]GO:0030212+P biological\_process [name] hyaluronan metabolic process [def] "The chemical reactions and pathways involving hyaluronan, the naturally occurring anionic form of hyaluronic acid, any member of a group of glycosaminoglycans, the repeat units of which consist of beta-1,4 linked D-glucuronyl-beta-(1,3)-N-acetyl-D-glucosamine." [GOC

363 Pathogen[ P0C214] interacts with 1 human partners:{O75330}

364 Pathogen[ P03346] interacts with 1 human partners:{O75330}

365 Pathogen[ Q85601] interacts with 1 human partners:{O75330}

366 Pathogen[ P14079] interacts with 1 human partners:{O75330}

367 Pathogen[ P03410] interacts with 1 human partners:{O75330}

368 Pathogen[ P14075] interacts with 1 human partners:{O75330}

369 Pathogen[ P0C206] interacts with 1 human partners:{O75330}

370 [Cluster 60]GO:0007205+P biological\_process [name] activation of protein kinase C activity by G-protein coupled receptor protein signaling pathway [def] "The initiation of the activity of the inactive enzyme protein kinase C as the result of a series of molecular signals generated as a consequence of a G-protein coupled receptor binding to its physiological ligand." [GOC

371 Pathogen[ P03346] interacts with 3 human partners:{Q49MI3;Q8TEW0;Q9NRD5}

372 Pathogen[ Q85601] interacts with 1 human partners:{P17677}

373 Pathogen[ P14079] interacts with 3 human partners:{P17677;Q8TEW0;O43612}

374 Pathogen[ P03410] interacts with 4 human partners:{O43612;Q9NRD5;P17677;Q8TEW0}

375 Pathogen[ P0C206] interacts with 3 human partners:{P17677;Q8TEW0;Q9NRD5}

376 Pathogen[ P03363] interacts with 1 human partners:{Q49MI3}

377 [Cluster 61]GO:0021530+P biological\_process [name] spinal cord oligodendrocyte cell fate specification [def] "The process in which a cell becomes capable of

differentiating autonomously into an oligodendrocyte in an environment that is neutral with respect to the developmental pathway." [GO\_REF

378 Pathogen[ P03346] interacts with 2 human partners:{O95096;Q13516}

379 Pathogen[ P03363] interacts with 1 human partners:{Q13516}

380 [Cluster 62]GO:0002021+P biological\_process [name] response to dietary excess [def] "The physiological process in which dietary excess is sensed by the central nervous system, resulting in a reduction in food intake and increased energy expenditure." [PMID

381 Pathogen[ P0C214] interacts with 1 human partners:{Q9BQI5}

382 Pathogen[ P03346] interacts with 1 human partners:{Q9BQI5}

383 Pathogen[ P14079] interacts with 2 human partners:{Q9BQI5;P81277}

384 Pathogen[ P03383] interacts with 1 human partners:{Q9BQI5}

385 Pathogen[ P03410] interacts with 2 human partners:{Q9BQI5;P81277}

386 Pathogen[ P14075] interacts with 1 human partners:{Q9BQI5}

387 Pathogen[ P0C206] interacts with 1 human partners:{Q9BQI5}

388 Pathogen[ P03363] interacts with 1 human partners:{Q9BQI5}

389 [Cluster 63]GO:0035270+P biological\_process [name] endocrine system development [def] "Progression of the endocrine system over time, from its formation to a mature structure. The endocrine system is a system of hormones and ductless glands, where the glands release hormones directly into the blood, lymph or other intercellular fluid, and the hormones circulate within the body to affect distant organs. The major glands that make up the human endocrine system are the hypothalamus, pituitary, thyroid, parathyroids, adrenals, pineal body, and the reproductive glands which include the ovaries and testes." [GOC

390 Pathogen[ P03346] interacts with 1 human partners:{Q01101}

391 [Cluster 64]GO:0050890+P biological\_process [name] cognition [def] "The operation of the mind by which an organism becomes aware of objects of thought or perception\_ it includes the mental activities associated with thinking, learning, and memory." [http

392 Pathogen[ Q2Q067] interacts with 1 human partners:{P49639}

393 Pathogen[ P0C214] interacts with 1 human partners:{P49639}

394 Pathogen[ P03346] interacts with 2 human partners:{P49639;Q9P2D1}

395 Pathogen[ Q85601] interacts with 2 human partners:{P49639;Q9P2D1}

396 Pathogen[ P14079] interacts with 2 human partners:{Q9P2D1;P49639}

397 Pathogen[ P03383] interacts with 1 human partners:{P49639}

398 Pathogen[ P03410] interacts with 2 human partners:{Q9P2D1;P49639}

399 Pathogen[ P0C206] interacts with 2 human partners:{P49639;Q9P2D1}

400 Pathogen[ P03363] interacts with 1 human partners:{P49639}

401 [Cluster 65]GO:0021682+P biological\_process [name] nerve maturation [def] "A developmental process, independent of morphogenetic (shape) change, that is required for a nerve to attain its fully functional state." [GO\_REF

402 Pathogen[ P14079] interacts with 1 human partners:{Q14118}

403 Pathogen[ P03410] interacts with 1 human partners:{Q14118}

404 [Cluster 66]GO:0044208+P biological\_process [name] 'de novo' AMP biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of adenosine monophosphate (AMP) from inosine 5'-monophosphate (IMP)." [GOC

405 Pathogen[ P0C214] interacts with 1 human partners:{P30566}

406 Pathogen[ P03410] interacts with 1 human partners:{P30566}

407 [Cluster 67]GO:0007060+P biological\_process [name] male meiosis chromosome segregation [def] "The cell cycle process in which genetic material, in the form of chromosomes, is organized and then physically separated and apportioned to two or more sets during the meiotic cell cycle in a male." [GOC

408 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8IYF3}

409 Pathogen[ P0C214] interacts with 2 human partners:{P40692;Q8IYF3}

410 Pathogen[ P03346] interacts with 1 human partners:{Q8IYF3}

411 Pathogen[ Q85601] interacts with 2 human partners:{Q8IYF3;P40692}

412 Pathogen[ P14079] interacts with 2 human partners:{P40692;Q8IYF3}

413 Pathogen[ P03383] interacts with 1 human partners:{Q8IYF3}

414 Pathogen[ P03410] interacts with 2 human partners:{P40692;Q8IYF3}

415 Pathogen[ P14075] interacts with 1 human partners:{Q8IYF3}

416 Pathogen[ P0C206] interacts with 2 human partners:{P40692;Q8IYF3}

417 [Cluster 68]GO:0035315+P biological\_process [name] hair cell differentiation [def] "The process in which a relatively unspecialized cell acquires specialized features of a hair cell." [GOC

418 Pathogen[ Q85601] interacts with 1 human partners:{P19447}

419 Pathogen[ P14079] interacts with 1 human partners:{P19447}

420 Pathogen[ P03410] interacts with 1 human partners:{P19447}

421 Pathogen[ P0C206] interacts with 1 human partners:{P19447}

422 [Cluster 69]GO:0042668+P biological\_process [name] auditory receptor cell fate determination [def] "The process in which a cell becomes capable of differentiating autonomously into an auditory hair cell regardless of its environment\_ upon determination, the cell fate cannot be reversed." [GOC

423 Pathogen[ P03346] interacts with 1 human partners:{Q92858}

424 [Cluster 70]GO:1900108+P

425 Pathogen[ P0C214] interacts with 1 human partners:{Q5SW24}

426 Pathogen[ Q85601] interacts with 1 human partners:{Q5SW24}

427 Pathogen[ P14079] interacts with 1 human partners:{Q5SW24}

428 Pathogen[ P03410] interacts with 1 human partners:{Q5SW24}

429 Pathogen[ P0C206] interacts with 1 human partners:{Q5SW24}

430 [Cluster 71]GO:0045654+P biological\_process [name] positive regulation of megakaryocyte differentiation [def] "Any process that activates or increases the frequency, rate or extent of megakaryocyte differentiation." [GOC

431 Pathogen[ Q2Q067] interacts with 1 human partners:{P23769}

432 Pathogen[ P0C214] interacts with 1 human partners:{P23769}

433 Pathogen[ P03346] interacts with 1 human partners:{P23769}

434 Pathogen[ Q85601] interacts with 1 human partners:{P23769}

435 Pathogen[ P14079] interacts with 2 human partners:{Q9Y6U3;P23769}

436 Pathogen[ P03383] interacts with 1 human partners:{P23769}

437 Pathogen[ P03410] interacts with 2 human partners:{Q9Y6U3;P23769}

438 Pathogen[ P14075] interacts with 1 human partners:{P23769}

439 Pathogen[ P0C206] interacts with 1 human partners:{P23769}

440 [Cluster 72]GO:0070781+P biological\_process [name] response to biotin [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a biotin stimulus." [GOC

441 Pathogen[ P0C214] interacts with 2 human partners:{P00480;P50747}

442 Pathogen[ Q85601] interacts with 1 human partners:{P00480}

443 Pathogen[ P14079] interacts with 1 human partners:{P00480}

444 Pathogen[ P03410] interacts with 1 human partners:{P00480}

445 Pathogen[ P0C206] interacts with 1 human partners:{P00480}

446 [Cluster 73]GO:0003351+P biological\_process [name] epithelial cilium movement [def] "The directed, self-propelled movement of a cilium of an epithelial cell. This movement is usually coordinated between many epithelial cells, and serves to move fluid." [GOC

447 Pathogen[ P14079] interacts with 3 human partners:{Q9BVM2;Q95922;Q9UI46}

448 Pathogen[ P03410] interacts with 3 human partners:{Q9UI46;Q95922;Q9BVM2}

449 Pathogen[ P14075] interacts with 1 human partners:{Q9BVM2}

450 Pathogen[ P0C206] interacts with 2 human partners:{Q9BVM2;Q95922}

451 Pathogen[ P03363] interacts with 2 human partners:{Q95922;Q9UI46}

452 [Cluster 74]GO:0042074+P biological\_process [name] cell migration involved in gastrulation [def] "The migration of individual cells within the blastocyst to help establish the multi-layered body plan of the organism (gastrulation). For example, the migration of cells from the surface to the interior of the embryo (ingression)." [GOC

453 Pathogen[ P03346] interacts with 2 human partners:{Q9H2W2;O75593}

454 Pathogen[ P03363] interacts with 1 human partners:{Q9H2W2}

455 [Cluster 75]GO:0007588+P biological\_process [name] excretion [def] "The elimination by an organism of the waste products that arise as a result of metabolic activity. These products include water, carbon dioxide (CO2), and nitrogenous compounds." [ISBN

456 Pathogen[ Q2Q067] interacts with 2 human partners:{Q96PU5;O94916}

457 Pathogen[ P0C214] interacts with 2 human partners:{O94916;Q96PU5}

458 Pathogen[ P03346] interacts with 3 human partners:{Q96PU5;O94916;Q9NP85}

459 Pathogen[ Q85601] interacts with 2 human partners:{Q96PU5;O94916}

460 Pathogen[ P14079] interacts with 3 human partners:{Q9NP85;O15259;O94916}

461 Pathogen[ P03410] interacts with 3 human partners:{O94916;O15259;Q9NP85}

462 Pathogen[ P0C206] interacts with 3 human partners:{Q96PU5;O94916;Q9NP85}

463 Pathogen[ P03363] interacts with 3 human partners:{Q96PU5;O94916;O15259}

464 [Cluster 76]GO:0072110+P biological\_process [name] glomerular mesangial cell proliferation [def] "The multiplication or reproduction of glomerular mesangial cells, resulting in the expansion of the population." [GOC

465 Pathogen[ Q2Q067] interacts with 1 human partners:{P18146}

466 Pathogen[ P0C214] interacts with 1 human partners:{P18146}

467 Pathogen[ P03346] interacts with 1 human partners:{P18146}

468 Pathogen[ Q85601] interacts with 1 human partners:{P18146}

469 Pathogen[ P03383] interacts with 1 human partners:{P18146}

470 Pathogen[ P03410] interacts with 1 human partners:{P18146}

471 Pathogen[ P14075] interacts with 1 human partners:{P18146}

472 Pathogen[ P0C206] interacts with 1 human partners:{P18146}

473 Pathogen[ P03363] interacts with 1 human partners:{P18146}

474 [Cluster 77]GO:0006167+P biological\_process [name] AMP biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of AMP, adenosine monophosphate." [GOC

475 Pathogen[ P0C214] interacts with 1 human partners:{P30566}

476 Pathogen[ P03410] interacts with 1 human partners:{P30566}

477 [Cluster 78]GO:0002074+P biological\_process [name] extraocular skeletal muscle development [def] "The process whose specific outcome is the progression of the extraocular skeletal muscle over time, from its formation to the mature structure. The extraocular muscle is derived from cranial mesoderm and controls eye movements. The muscle begins its development with the differentiation of the muscle cells and ends with the mature muscle. An example of this process is found in Mus musculus." [GOC

478 Pathogen[ P03346] interacts with 1 human partners:{P58012}

479 [Cluster 79]GO:0071338+P biological\_process [name] positive regulation of hair follicle cell proliferation [def] "Any process that activates or increases the rate or

extent of hair follicle cell proliferation." [GOC

480 Pathogen[ Q2Q067] interacts with 1 human partners:{P60953}

481 Pathogen[ POC214] interacts with 1 human partners:{P60953}

482 Pathogen[ P03346] interacts with 1 human partners:{P60953}

483 Pathogen[ Q85601] interacts with 1 human partners:{P60953}

484 Pathogen[ P03383] interacts with 1 human partners:{P60953}

485 Pathogen[ P03410] interacts with 1 human partners:{P60953}

486 Pathogen[ P14075] interacts with 1 human partners:{P60953}

487 Pathogen[ POC206] interacts with 1 human partners:{P60953}

488 Pathogen[ P03363] interacts with 1 human partners:{P60953}

489 [Cluster 80]GO:0019724+P biological\_process [name] B cell mediated immunity [def]  
 "Any process involved with the carrying out of an immune response by a B cell, through, for instance, the production of antibodies or cytokines, or antigen presentation to T cells." [GO\_REF

490 Pathogen[ P03346] interacts with 1 human partners:{Q9H6Q3}

491 Pathogen[ Q85601] interacts with 1 human partners:{Q9H6Q3}

492 Pathogen[ P14079] interacts with 1 human partners:{Q9H6Q3}

493 Pathogen[ P03410] interacts with 1 human partners:{Q9H6Q3}

494 Pathogen[ POC206] interacts with 1 human partners:{Q9H6Q3}

495 Pathogen[ P03363] interacts with 1 human partners:{Q9H6Q3}

496 [Cluster 81]GO:0006311+P biological\_process [name] meiotic gene conversion [def]  
 "The cell cycle process in which genetic information is transferred from one helix to another. It often occurs in association with general genetic recombination events, and is believed to be a straightforward consequence of the mechanisms of general recombination and DNA repair. For example, meiosis might yield three copies of the maternal version of an allele and only one copy of the paternal allele, indicating that one of the two copies of the paternal allele has been changed to a copy of the maternal allele." [ISBN

497 Pathogen[ POC214] interacts with 1 human partners:{Q9NQV7}

498 Pathogen[ P03346] interacts with 1 human partners:{Q9NQV7}

499 Pathogen[ Q85601] interacts with 1 human partners:{Q9NQV7}

500 Pathogen[ P14079] interacts with 1 human partners:{Q9NQV7}

501 Pathogen[ P03410] interacts with 1 human partners:{Q9NQV7}

502 Pathogen[ POC206] interacts with 1 human partners:{Q9NQV7}

503 [Cluster 82]GO:0007100+P biological\_process [name] mitotic centrosome separation [def]  
 "Separation of duplicated centrosome components at the beginning of mitosis. The centriole pair within each centrosome becomes part of a separate microtubule organizing center that nucleates a radial array of microtubules called an aster. The two asters move to opposite sides of the nucleus to form the two poles of the mitotic spindle." [ISBN

504 Pathogen[ P14079] interacts with 1 human partners:{O15066}

505 Pathogen[ P03363] interacts with 1 human partners:{O15066}

506 [Cluster 83]GO:0047484+P biological\_process [name] regulation of response to osmotic stress [def]  
 "Any process that modulates the rate or extent of the response to osmotic stress." [GOC

507 Pathogen[ P03410] interacts with 1 human partners:{Q15049}

508 [Cluster 84]GO:0042340+P biological\_process [name] keratan sulfate catabolic process [def]  
 "The chemical reactions and pathways resulting in the breakdown of keratan sulfate, a glycosaminoglycan with repeat units consisting of beta-1,4-linked D-galactopyranosyl-beta-(1,4)-N-acetyl-D-glucosamine 6-sulfate and with variable amounts of fucose, sialic acid and mannose units\_ keratan sulfate chains are covalently linked by a glycosidic attachment through the trisaccharide galactosyl-galactosyl-xylose to peptidyl-threonine or serine residues." [GOC

509 Pathogen[ POC214] interacts with 1 human partners:{P16278}

510 Pathogen[ P03346] interacts with 1 human partners:{P16278}

511 Pathogen[ P14079] interacts with 1 human partners:{P16278}

512 Pathogen[ P03410] interacts with 1 human partners:{P16278}

513 Pathogen[ POC206] interacts with 1 human partners:{P16278}

514 [Cluster 85]GO:0000717+P biological\_process [name] nucleotide-excision repair, DNA duplex unwinding [def]  
 "The unwinding, or local denaturation, of the DNA duplex to create a bubble around the site of the DNA damage." [GOC

515 Pathogen[ Q85601] interacts with 1 human partners:{P19447}

516 Pathogen[ P14079] interacts with 1 human partners:{P19447}

517 Pathogen[ P03410] interacts with 1 human partners:{P19447}

518 Pathogen[ POC206] interacts with 1 human partners:{P19447}

519 [Cluster 86]GO:0070682+P biological\_process [name] proteasome regulatory particle assembly [def]  
 "The aggregation, arrangement and bonding together of a mature, active proteasome regulatory particle complex." [GOC

520 Pathogen[ Q2Q067] interacts with 3 human partners:{O75832;O00233;Q16401}

521 Pathogen[ POC214] interacts with 3 human partners:{O75832;O00233;Q16401}

522 Pathogen[ P03346] interacts with 3 human partners:{Q16401;O75832;O00233}

523 Pathogen[ Q85601] interacts with 3 human partners:{O75832;O00233;Q16401}

524 Pathogen[ P14079] interacts with 3 human partners:{O75832;O00233;Q16401}

525 Pathogen[ P03383] interacts with 3 human partners:{O00233;O75832;Q16401}

526 Pathogen[ P03410] interacts with 3 human partners:{Q16401;O00233;O75832}

527 Pathogen[ P14075] interacts with 3 human partners:{O75832;O00233;Q16401}

528 Pathogen[ POC206] interacts with 3 human partners:{075832;000233;Q16401}

529 [Cluster 87]GO:0006551+P biological\_process [name] leucine metabolic process  
[def] "The chemical reactions and pathways involving leucine, 2-amino-4-methylpentanoic acid." [GOC

530 Pathogen[ POC214] interacts with 1 human partners:{015382}

531 Pathogen[ Q85601] interacts with 1 human partners:{015382}

532 Pathogen[ P14079] interacts with 1 human partners:{015382}

533 Pathogen[ P03410] interacts with 1 human partners:{015382}

534 Pathogen[ POC206] interacts with 1 human partners:{015382}

535 [Cluster 88]GO:0071286+P biological\_process [name] cellular response to magnesium ion [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a magnesium ion stimulus." [GOC

536 Pathogen[ Q2Q067] interacts with 1 human partners:{P09467}

537 Pathogen[ POC214] interacts with 1 human partners:{P09467}

538 Pathogen[ P03346] interacts with 1 human partners:{P09467}

539 Pathogen[ Q85601] interacts with 1 human partners:{P09467}

540 Pathogen[ P14079] interacts with 1 human partners:{P09467}

541 Pathogen[ P03383] interacts with 1 human partners:{P09467}

542 Pathogen[ P03410] interacts with 1 human partners:{P09467}

543 Pathogen[ P14075] interacts with 1 human partners:{P09467}

544 Pathogen[ POC206] interacts with 1 human partners:{P09467}

545 [Cluster 89]GO:0031017+P biological\_process [name] exocrine pancreas development  
[def] "The process whose specific outcome is the progression of the exocrine pancreas over time, from its formation to the mature structure. The exocrine pancreas produces and store zymogens of digestive enzymes, such as chymotrypsinogen and trypsinogen in the acinar cells." [GOC

546 Pathogen[ Q2Q067] interacts with 1 human partners:{P17861}

547 Pathogen[ POC214] interacts with 1 human partners:{P17861}

548 Pathogen[ P03346] interacts with 2 human partners:{Q7RTS3;P17861}

549 Pathogen[ Q85601] interacts with 1 human partners:{P17861}

550 Pathogen[ P03383] interacts with 1 human partners:{P17861}

551 Pathogen[ P03410] interacts with 1 human partners:{P17861}

552 Pathogen[ P14075] interacts with 1 human partners:{P17861}

553 Pathogen[ POC206] interacts with 1 human partners:{P17861}

554 Pathogen[ P03363] interacts with 2 human partners:{Q7RTS3;P17861}

555 [Cluster 90]GO:0031283+P biological\_process [name] negative regulation of guanylate cyclase activity [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of guanylate cyclase activity." [GOC

556 Pathogen[ P03346] interacts with 1 human partners:{Q86UT5}

557 Pathogen[ P14079] interacts with 1 human partners:{Q86UT5}

558 Pathogen[ P03410] interacts with 1 human partners:{Q86UT5}

559 Pathogen[ POC206] interacts with 1 human partners:{Q86UT5}

560 Pathogen[ P03363] interacts with 1 human partners:{Q86UT5}

561 [Cluster 91]GO:0042438+P biological\_process [name] melanin biosynthetic process  
[def] "The chemical reactions and pathways resulting in the formation of melanins, pigments largely of animal origin. High molecular weight polymers of indole quinone, they are irregular polymeric structures and are divided into three groups

562 Pathogen[ Q2Q067] interacts with 1 human partners:{Q99966}

563 Pathogen[ POC214] interacts with 1 human partners:{Q99966}

564 Pathogen[ P03346] interacts with 1 human partners:{Q99966}

565 Pathogen[ Q85601] interacts with 1 human partners:{Q99966}

566 Pathogen[ P14079] interacts with 1 human partners:{Q99966}

567 Pathogen[ P03410] interacts with 1 human partners:{Q99966}

568 Pathogen[ POC206] interacts with 1 human partners:{Q99966}

569 [Cluster 92]GO:0042987+P biological\_process [name] amyloid precursor protein catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of amyloid precursor protein (APP), the precursor of beta-amyloid, a glycoprotein associated with Alzheimer's disease." [GOC

570 Pathogen[ P14079] interacts with 2 human partners:{Q92542;Q9NZ42}

571 Pathogen[ P03410] interacts with 2 human partners:{Q9NZ42;Q92542}

572 Pathogen[ POC206] interacts with 2 human partners:{Q9NZ42;Q92542}

573 [Cluster 93]GO:0006465+P biological\_process [name] signal peptide processing  
[def] "The proteolytic removal of a signal peptide from a protein during or after transport to a specific location in the cell." [GOC

574 Pathogen[ P14079] interacts with 1 human partners:{075503}

575 Pathogen[ P03410] interacts with 1 human partners:{075503}

576 [Cluster 94]GO:0006102+P biological\_process [name] isocitrate metabolic process  
[def] "The chemical reactions and pathways involving isocitrate, the anion of isocitric acid, 1-hydroxy-1,2,3-propanetricarboxylic acid. Isocitrate is an important intermediate in the TCA cycle and the glycoxylate cycle." [ISBN

577 Pathogen[ POC214] interacts with 6 human partners:{075874;P48735;Q99798;P50213;O43837;P51553}

578 Pathogen[ POC206] interacts with 2 human partners:{P50213;Q99798}

579 [Cluster 95]GO:0060708+P biological\_process [name] spongiotrophoblast differentiation [def] "The process in which a relatively unspecialized cell of the



ectoplacental cone acquires specialized features of a spongiotrophoblast of the placenta. A spongiotrophoblast cell is a basophilic cell." [GOC

580 Pathogen[ P03346] interacts with 1 human partners:{Q99929}

581 Pathogen[ P03363] interacts with 1 human partners:{Q99929}

582 [Cluster 96]GO:0005976+P biological\_process [name] polysaccharide metabolic process [def] "The chemical reactions and pathways involving polysaccharides, a polymer of more than 20 monosaccharide residues joined by glycosidic linkages." [ISBN

583 Pathogen[ P0C214] interacts with 2 human partners:{Q93100;P46020}

584 Pathogen[ P14079] interacts with 2 human partners:{Q93100;P46020}

585 Pathogen[ P03410] interacts with 2 human partners:{P46020;Q93100}

586 Pathogen[ P14075] interacts with 1 human partners:{Q93100}

587 Pathogen[ P0C206] interacts with 2 human partners:{Q93100;P46020}

588 [Cluster 97]GO:0039003+P biological\_process [name] pronephric field specification [def] "The process in which regions of the embryo are delineated into the area in which the pronephric kidney will develop." [GOC

589 Pathogen[ P03346] interacts with 1 human partners:{Q06710}

590 [Cluster 98]GO:0044210+P biological\_process [name] 'de novo' CTP biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of cytidine 5'-triphosphate (CTP) from simpler components." [GOC

591 Pathogen[ P0C214] interacts with 2 human partners:{Q9NRF8;P17812}

592 Pathogen[ P14079] interacts with 2 human partners:{P17812;Q9NRF8}

593 Pathogen[ P03410] interacts with 2 human partners:{Q9NRF8;P17812}

594 [Cluster 99]GO:0006570+P biological\_process [name] tyrosine metabolic process [def] "The chemical reactions and pathways involving tyrosine, an aromatic amino acid, 2-amino-3-(4-hydroxyphenyl)propanoic acid." [GOC

595 Pathogen[ P14079] interacts with 1 human partners:{Q93099}

596 Pathogen[ P03410] interacts with 1 human partners:{Q93099}

597 [Cluster 100]GO:0072134+P biological\_process [name] nephrogenic mesenchyme morphogenesis [def] "The process in which the anatomical structures of a nephrogenic mesenchymal tissue are generated and organized. Nephrogenic mesenchyme is the tissue made up of loosely connected mesenchymal cells in the nephron." [GOC

598 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13485}

599 Pathogen[ P0C214] interacts with 1 human partners:{Q13485}

600 Pathogen[ P03346] interacts with 1 human partners:{Q13485}

601 Pathogen[ Q85601] interacts with 1 human partners:{Q13485}

602 Pathogen[ P03383] interacts with 1 human partners:{Q13485}

603 Pathogen[ P03410] interacts with 1 human partners:{Q13485}

604 Pathogen[ P14075] interacts with 1 human partners:{Q13485}

605 Pathogen[ P0C206] interacts with 1 human partners:{Q13485}

606 Pathogen[ P03363] interacts with 1 human partners:{Q13485}

607 [Cluster 101]GO:0090085+P biological\_process [name] regulation of protein deubiquitination [def] "Any process that modulates the frequency, rate or extent of protein deubiquitination. Protein deubiquitination is the removal of one or more ubiquitin groups from a protein." [GOC

608 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96J02}

609 Pathogen[ P0C214] interacts with 1 human partners:{Q96J02}

610 Pathogen[ P03346] interacts with 1 human partners:{Q96J02}

611 Pathogen[ Q85601] interacts with 1 human partners:{Q96J02}

612 Pathogen[ P14079] interacts with 1 human partners:{Q96J02}

613 Pathogen[ P0C206] interacts with 1 human partners:{Q96J02}

614 [Cluster 102]GO:0009106+P biological\_process [name] lipoate metabolic process [def] "The chemical reactions and pathways involving lipoate, 1,2-dithiolane-3-pentanoate, the anion derived from lipoic acid." [GOC

615 Pathogen[ P0C214] interacts with 1 human partners:{P09622}

616 [Cluster 103]GO:0035565+P biological\_process [name] regulation of pronephros size [def] "Any process that modulates the size of a pronephric kidney." [GOC

617 Pathogen[ Q2Q067] interacts with 2 human partners:{P35680;P20823}

618 Pathogen[ P03346] interacts with 2 human partners:{P20823;P35680}

619 Pathogen[ Q85601] interacts with 2 human partners:{P35680;P20823}

620 Pathogen[ P14079] interacts with 1 human partners:{P35680}

621 Pathogen[ P03410] interacts with 1 human partners:{P35680}

622 Pathogen[ P0C206] interacts with 2 human partners:{P35680;P20823}

623 [Cluster 104]GO:0010839+P biological\_process [name] negative regulation of keratinocyte proliferation [def] "Any process that decreases the rate, frequency or extent of keratinocyte proliferation. Keratinocyte proliferation is the multiplication or reproduction of keratinocytes, resulting in the expansion of a cell population." [GOC

624 Pathogen[ Q2Q067] interacts with 1 human partners:{P11473}

625 Pathogen[ P03346] interacts with 1 human partners:{P11473}

626 Pathogen[ Q85601] interacts with 1 human partners:{P11473}

627 Pathogen[ P14079] interacts with 1 human partners:{P11473}

628 Pathogen[ P03383] interacts with 1 human partners:{P11473}

629 Pathogen[ P03410] interacts with 1 human partners:{P11473}

630 Pathogen[ P14075] interacts with 1 human partners:{P11473}

631 Pathogen[ P0C206] interacts with 1 human partners:{P11473}

632 Pathogen[ P03363] interacts with 1 human partners:{P11473}

633 [Cluster 105]GO:0071951+P biological\_process [name] conversion of methionyl-tRNA to

N-formyl-methionyl-tRNA [def] "The modification process that results in the conversion of methionine charged on a tRNA(fMet) to N-formyl-methionine-tRNA(fMet)." [GOC

634 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96DP5}

635 Pathogen[ POC214] interacts with 1 human partners:{Q96DP5}

636 Pathogen[ P03346] interacts with 1 human partners:{Q96DP5}

637 Pathogen[ P14079] interacts with 1 human partners:{Q96DP5}

638 Pathogen[ P03383] interacts with 1 human partners:{Q96DP5}

639 Pathogen[ P03410] interacts with 1 human partners:{Q96DP5}

640 Pathogen[ P14075] interacts with 1 human partners:{Q96DP5}

641 Pathogen[ POC206] interacts with 1 human partners:{Q96DP5}

642 [Cluster 106]GO:2000143+P biological\_process [name] negative regulation of transcription initiation, DNA-dependent [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of DNA-dependent transcription initiation." [GOC

643 Pathogen[ Q2Q067] interacts with 1 human partners:{P10827}

644 Pathogen[ P03346] interacts with 1 human partners:{P10827}

645 Pathogen[ Q85601] interacts with 1 human partners:{P10827}

646 Pathogen[ P14079] interacts with 1 human partners:{P10827}

647 Pathogen[ POC206] interacts with 1 human partners:{P10827}

648 [Cluster 107]GO:0009826+P biological\_process [name] unidimensional cell growth [def] "The process in which a cell irreversibly increases in size in one [spatial] dimension or along one axis, resulting in the morphogenesis of the cell." [ISBN

649 Pathogen[ P03346] interacts with 1 human partners:{Q9NQY0}

650 Pathogen[ P03410] interacts with 1 human partners:{Q9NQY0}

651 Pathogen[ POC206] interacts with 1 human partners:{Q9NQY0}

652 Pathogen[ P03363] interacts with 1 human partners:{Q9NQY0}

653 [Cluster 108]GO:1901533+P

654 Pathogen[ P03346] interacts with 1 human partners:{Q9H2W2}

655 Pathogen[ P03363] interacts with 1 human partners:{Q9H2W2}

656 [Cluster 109]GO:0035166+P biological\_process [name] post-embryonic hemopoiesis [def] "The stages of blood cell formation that take place after completion of embryonic development." [GOC

657 Pathogen[ P03346] interacts with 1 human partners:{P07992}

658 Pathogen[ P14079] interacts with 1 human partners:{P07992}

659 Pathogen[ P03410] interacts with 1 human partners:{P07992}

660 Pathogen[ POC206] interacts with 1 human partners:{P07992}

661 [Cluster 110]GO:0010884+P biological\_process [name] positive regulation of lipid storage [def] "Any process that increases the rate, frequency or extent of lipid storage. Lipid storage is the accumulation and maintenance in cells or tissues of lipids, compounds soluble in organic solvents but insoluble or sparingly soluble in aqueous solvents. Lipid reserves can be accumulated during early developmental stages for mobilization and utilization at later stages of development." [GOC

662 Pathogen[ Q2Q067] interacts with 1 human partners:{P19838}

663 Pathogen[ POC214] interacts with 1 human partners:{P19838}

664 Pathogen[ P03346] interacts with 1 human partners:{P19838}

665 Pathogen[ Q85601] interacts with 1 human partners:{P19838}

666 Pathogen[ P03383] interacts with 1 human partners:{P19838}

667 Pathogen[ P03410] interacts with 1 human partners:{P19838}

668 Pathogen[ P14075] interacts with 1 human partners:{P19838}

669 Pathogen[ POC206] interacts with 1 human partners:{P19838}

670 Pathogen[ P03363] interacts with 1 human partners:{P19838}

671 [Cluster 111]GO:0009142+P biological\_process [name] nucleoside triphosphate biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of a nucleoside triphosphate, a compound consisting of a nucleobase linked to a deoxyribose or ribose sugar esterified with triphosphate on the sugar." [GOC

672 Pathogen[ Q2Q067] interacts with 1 human partners:{P22392}

673 Pathogen[ POC214] interacts with 1 human partners:{P22392}

674 Pathogen[ P03346] interacts with 1 human partners:{P22392}

675 Pathogen[ Q85601] interacts with 1 human partners:{P22392}

676 Pathogen[ P14079] interacts with 1 human partners:{P22392}

677 Pathogen[ P03383] interacts with 1 human partners:{P22392}

678 Pathogen[ P14075] interacts with 1 human partners:{P22392}

679 Pathogen[ POC206] interacts with 1 human partners:{P22392}

680 [Cluster 112]GO:0021993+P biological\_process [name] initiation of neural tube closure [def] "The process in which closure points are established at multiple points and along the neural rostrocaudal axis." [GO\_REF

681 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8NHM5}

682 Pathogen[ POC214] interacts with 1 human partners:{Q8NHM5}

683 Pathogen[ P03346] interacts with 1 human partners:{Q8NHM5}

684 Pathogen[ Q85601] interacts with 1 human partners:{Q8NHM5}

685 Pathogen[ P14079] interacts with 1 human partners:{Q8NHM5}

686 Pathogen[ POC206] interacts with 1 human partners:{Q8NHM5}

687 [Cluster 113]GO:0072095+P biological\_process [name] regulation of branch elongation involved in ureteric bud branching [def] "Any process that modulates the frequency, rate or extent of branch elongation involved in ureteric bud branching, the growth of a branch of the ureteric bud along its axis." [GOC

688 Pathogen[ Q2Q067] interacts with 1 human partners:{P35680}

689 Pathogen[ P03346] interacts with 3 human partners:{Q9UIU6;P35680;Q15475}  
690 Pathogen[ Q85601] interacts with 1 human partners:{P35680}  
691 Pathogen[ P14079] interacts with 1 human partners:{P35680}  
692 Pathogen[ P03410] interacts with 1 human partners:{P35680}  
693 Pathogen[ P0C206] interacts with 1 human partners:{P35680}  
694 [Cluster 114]GO:0046321+P biological\_process [name] positive regulation of fatty acid oxidation [def] "Any process that activates or increases the frequency, rate or extent of fatty acid oxidation." [GOC  
695 Pathogen[ P14079] interacts with 1 human partners:{095822}  
696 Pathogen[ P03410] interacts with 1 human partners:{095822}  
697 [Cluster 115]GO:0006220+P biological\_process [name] pyrimidine nucleotide metabolic process [def] "The chemical reactions and pathways involving a pyrimidine nucleotide, a compound consisting of nucleoside (a pyrimidine base linked to a deoxyribose or ribose sugar) esterified with a phosphate group at either the 3' or 5'-hydroxyl group of the sugar." [GOC  
698 Pathogen[ P0C214] interacts with 2 human partners:{Q16831;Q9NRF8}  
699 Pathogen[ P14079] interacts with 2 human partners:{Q16831;Q9NRF8}  
700 Pathogen[ P03410] interacts with 2 human partners:{Q9NRF8;Q16831}  
701 Pathogen[ P0C206] interacts with 1 human partners:{Q16831}  
702 [Cluster 116]GO:0035750+P biological\_process [name] protein localization to myelin sheath abaxonal region [def] "Any process in which a protein is transported to, and/or maintained in, the abaxonal region of the myelin sheath. The abaxonal region is the region of the myelin sheath furthest from the axon." [GOC  
703 Pathogen[ P03346] interacts with 1 human partners:{Q8N3R9}  
704 Pathogen[ P14079] interacts with 1 human partners:{Q8N3R9}  
705 Pathogen[ P03410] interacts with 1 human partners:{Q8N3R9}  
706 Pathogen[ P0C206] interacts with 1 human partners:{Q8N3R9}  
707 Pathogen[ P03363] interacts with 1 human partners:{Q8N3R9}  
708 [Cluster 117]GO:2001038+P biological\_process [name] regulation of cellular response to drug [def] "Any process that modulates the frequency, rate or extent of cellular response to drug." [GOC  
709 Pathogen[ P03346] interacts with 1 human partners:{Q15788}  
710 Pathogen[ P14079] interacts with 1 human partners:{Q15788}  
711 Pathogen[ P0C206] interacts with 1 human partners:{Q15788}  
712 [Cluster 118]GO:0045629+P biological\_process [name] negative regulation of T-helper 2 cell differentiation [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of T-helper 2 cell differentiation." [GOC  
713 Pathogen[ Q2Q067] interacts with 1 human partners:{P41182}  
714 Pathogen[ P0C214] interacts with 1 human partners:{P41182}  
715 Pathogen[ P03346] interacts with 3 human partners:{Q14774;O75159;P41182}  
716 Pathogen[ Q85601] interacts with 1 human partners:{P41182}  
717 Pathogen[ P14079] interacts with 1 human partners:{P41182}  
718 Pathogen[ P03410] interacts with 1 human partners:{P41182}  
719 Pathogen[ P0C206] interacts with 1 human partners:{P41182}  
720 Pathogen[ P03363] interacts with 1 human partners:{O75159}  
721 [Cluster 119]GO:0051029+P biological\_process [name] rRNA transport [def] "The directed movement of rRNA, ribosomal ribonucleic acid, into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore." [GOC  
722 Pathogen[ P0C214] interacts with 1 human partners:{Q16762}  
723 Pathogen[ P14079] interacts with 1 human partners:{Q16762}  
724 Pathogen[ P03410] interacts with 1 human partners:{Q16762}  
725 Pathogen[ P0C206] interacts with 1 human partners:{Q16762}  
726 [Cluster 120]GO:0045822+P biological\_process [name] negative regulation of heart contraction [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of heart contraction." [GOC  
727 Pathogen[ Q2Q067] interacts with 1 human partners:{P26678}  
728 Pathogen[ P0C214] interacts with 1 human partners:{P26678}  
729 Pathogen[ P03346] interacts with 1 human partners:{P26678}  
730 Pathogen[ P14079] interacts with 1 human partners:{P26678}  
731 Pathogen[ P03383] interacts with 1 human partners:{P26678}  
732 Pathogen[ P03410] interacts with 1 human partners:{P26678}  
733 Pathogen[ P14075] interacts with 1 human partners:{P26678}  
734 Pathogen[ P0C206] interacts with 1 human partners:{P26678}  
735 [Cluster 121]GO:0051347+P biological\_process [name] positive regulation of transferase activity [def] "Any process that activates or increases the frequency, rate or extent of transferase activity, the catalysis of the transfer of a group, e.g. a methyl group, glycosyl group, acyl group, phosphorus-containing, or other groups, from a donor compound to an acceptor." [GOC  
736 Pathogen[ P14079] interacts with 2 human partners:{Q86VE9;Q9NRX5}  
737 Pathogen[ P03410] interacts with 2 human partners:{Q86VE9;Q9NRX5}  
738 [Cluster 122]GO:0035553+P biological\_process [name] oxidative single-stranded RNA demethylation [def] "Removal of the methyl group from one or more nucleotides within a single-stranded RNA molecule involving the oxidation (i.e. electron loss) of one or more atoms." [GOC  
739 Pathogen[ P14079] interacts with 1 human partners:{Q9C0B1}  
740 Pathogen[ P03410] interacts with 1 human partners:{Q9C0B1}

741 [Cluster 123]GO:0051971+P biological\_process [name] positive regulation of transmission of nerve impulse [def] "Any process that activates, maintains or increases the frequency, rate or extent of transmission of a nerve impulse, the sequential electrochemical polarization and depolarization that travels across the membrane of a neuron in response to stimulation." [GOC  
742 Pathogen[ P14079] interacts with 1 human partners:{043612}  
743 Pathogen[ P03410] interacts with 1 human partners:{043612}  
744 [Cluster 124]GO:0044070+P biological\_process [name] regulation of anion transport [def] "Any process that modulates the frequency, rate or extent of the directed movement of anions, atoms or small molecules with a net negative charge into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore." [GOC  
745 Pathogen[ P0C214] interacts with 1 human partners:{043865}  
746 Pathogen[ P03346] interacts with 1 human partners:{043865}  
747 Pathogen[ Q85601] interacts with 1 human partners:{043865}  
748 Pathogen[ P14079] interacts with 2 human partners:{043865;B7ZAQ6}  
749 Pathogen[ P03410] interacts with 2 human partners:{B7ZAQ6;043865}  
750 Pathogen[ P0C206] interacts with 2 human partners:{043865;B7ZAQ6}  
751 Pathogen[ P03363] interacts with 1 human partners:{043865}  
752 [Cluster 125]GO:0003340+P biological\_process [name] negative regulation of mesenchymal to epithelial transition involved in metanephros morphogenesis [def] "Any process that decreases the rate, frequency or extent of the transition where a mesenchymal cell establishes apical/basolateral polarity, forms intercellular adhesive junctions, synthesizes basement membrane components and becomes an epithelial cell that will contribute to the shaping of the metanephros." [GOC  
753 Pathogen[ Q2Q067] interacts with 2 human partners:{Q99966;P42224}  
754 Pathogen[ P0C214] interacts with 2 human partners:{P42224;Q99966}  
755 Pathogen[ P03346] interacts with 2 human partners:{Q99966;P42224}  
756 Pathogen[ Q85601] interacts with 2 human partners:{Q99966;P42224}  
757 Pathogen[ P14079] interacts with 2 human partners:{Q99966;P42224}  
758 Pathogen[ P03410] interacts with 1 human partners:{Q99966}  
759 Pathogen[ P0C206] interacts with 2 human partners:{Q99966;P42224}  
760 [Cluster 126]GO:0055075+P biological\_process [name] potassium ion homeostasis [def] "Any process involved in the maintenance of an internal steady state of potassium ions within an organism or cell." [GOC  
761 Pathogen[ P03346] interacts with 1 human partners:{Q92481}  
762 [Cluster 127]GO:0043381+P biological\_process [name] negative regulation of memory T cell differentiation [def] "Any process that stops, prevents, or reduces the rate of memory T cell differentiation." [ISBN  
763 Pathogen[ P14079] interacts with 1 human partners:{Q8IU54}  
764 [Cluster 128]GO:0015886+P biological\_process [name] heme transport [def] "The directed movement of heme, any compound of iron complexed in a porphyrin (tetrapyrrole) ring, into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore." [GOC  
765 Pathogen[ P14079] interacts with 1 human partners:{Q96NT5}  
766 [Cluster 129]GO:0045055+P biological\_process [name] regulated secretory pathway [def] "A process of exocytosis in which soluble proteins and other substances are initially stored in secretory vesicles for later release. It is found mainly in cells that are specialized for secreting products such as hormones, neurotransmitters, or digestive enzymes rapidly on demand." [GOC  
767 Pathogen[ P03346] interacts with 1 human partners:{P49755}  
768 Pathogen[ P14079] interacts with 1 human partners:{P49755}  
769 Pathogen[ P0C206] interacts with 1 human partners:{P49755}  
770 [Cluster 130]GO:0002768+P biological\_process [name] immune response-regulating cell surface receptor signaling pathway [def] "A series of molecular signals initiated by the binding of an extracellular ligand to a receptor on the surface of the target cell capable of activating, perpetuating, or inhibiting an immune response." [GOC  
771 Pathogen[ Q2Q067] interacts with 1 human partners:{P25063}  
772 Pathogen[ P0C214] interacts with 1 human partners:{P25063}  
773 Pathogen[ P03346] interacts with 1 human partners:{P25063}  
774 Pathogen[ P14079] interacts with 1 human partners:{P25063}  
775 Pathogen[ P03383] interacts with 1 human partners:{P25063}  
776 Pathogen[ P03410] interacts with 1 human partners:{P25063}  
777 Pathogen[ P14075] interacts with 1 human partners:{P25063}  
778 Pathogen[ P0C206] interacts with 1 human partners:{P25063}  
779 [Cluster 131]GO:0001555+P biological\_process [name] oocyte growth [def] "The developmental growth process in which an oocyte irreversibly increases in size over time by accretion and biosynthetic production of matter similar to that already present." [http  
780 Pathogen[ Q2Q067] interacts with 1 human partners:{014686}  
781 Pathogen[ P03346] interacts with 1 human partners:{014686}  
782 Pathogen[ Q85601] interacts with 1 human partners:{014686}  
783 Pathogen[ P0C206] interacts with 1 human partners:{014686}  
784 Pathogen[ P03363] interacts with 1 human partners:{014686}  
785 [Cluster 132]GO:0042559+P biological\_process [name] pteridine-containing compound biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of any compound containing pteridine (pyrazino(2,3-dipyrimidine)), e.g.

pterotic acid, xanthopterin and folic acid." [GOC  
786 Pathogen[ Q2Q067] interacts with 1 human partners:{P30793}  
787 Pathogen[ POC214] interacts with 1 human partners:{P30793}  
788 Pathogen[ Q85601] interacts with 1 human partners:{P30793}  
789 Pathogen[ P14079] interacts with 1 human partners:{P30793}  
790 Pathogen[ P03410] interacts with 1 human partners:{P30793}  
791 Pathogen[ P14075] interacts with 1 human partners:{P30793}  
792 Pathogen[ POC206] interacts with 1 human partners:{P30793}  
793 [Cluster 133]GO:0070681+P biological\_process [name] glutaminyl-tRNAGln biosynthesis  
via transamidation [def] "A tRNA aminoacylation process in which glutaminyl-tRNAGln is  
formed by a tRNA-dependent two-step pathway. In the first step a non-discriminating  
glutamyl-tRNAGlx synthetase generates the misacylated L-glutamyl-tRNAGln species, and in  
the second step it is amidated to the correctly charged L-glutaminyl-tRNAGln by a  
glutamyl-tRNAGln amidotransferase." [GOC  
794 Pathogen[ P14079] interacts with 3 human partners:{075879;043716;Q9H0R6}  
795 Pathogen[ P03410] interacts with 2 human partners:{075879;Q9H0R6}  
796 [Cluster 134]GO:0042667+P biological\_process [name] auditory receptor cell fate  
specification [def] "The process in which a cell becomes capable of differentiating  
autonomously into an auditory hair cell in an environment that is neutral with respect  
to the developmental pathway upon specification, the cell fate can be reversed." [GOC  
797 Pathogen[ P03346] interacts with 1 human partners:{Q92858}  
798 [Cluster 135]GO:0036066+P biological\_process [name] protein O-linked fucosylation  
[def] "The process of transferring a fucosyl group to a serine or threonine residues in  
a protein acceptor molecule, to form an O-linked protein-sugar linkage." [GOC  
799 Pathogen[ POC214] interacts with 1 human partners:{Q9Y2G5}  
800 Pathogen[ P14079] interacts with 2 human partners:{Q9H488;Q9Y2G5}  
801 Pathogen[ P03410] interacts with 2 human partners:{Q9Y2G5;Q9H488}  
802 Pathogen[ P14075] interacts with 1 human partners:{Q9Y2G5}  
803 Pathogen[ POC206] interacts with 1 human partners:{Q9Y2G5}  
804 [Cluster 136]GO:0045870+P biological\_process [name] positive regulation of retroviral  
genome replication [def] "Any process that activates or increases the frequency, rate  
or extent of retroviral genome replication." [GOC  
805 Pathogen[ Q2Q067] interacts with 1 human partners:{P11388}  
806 Pathogen[ POC214] interacts with 1 human partners:{P11388}  
807 Pathogen[ P03346] interacts with 1 human partners:{P11388}  
808 Pathogen[ Q85601] interacts with 1 human partners:{P11388}  
809 Pathogen[ P14079] interacts with 1 human partners:{P11388}  
810 Pathogen[ P03410] interacts with 1 human partners:{P11388}  
811 Pathogen[ POC206] interacts with 1 human partners:{P11388}  
812 [Cluster 137]GO:2000982+P biological\_process [name] positive regulation of inner ear  
receptor cell differentiation [def] "Any process that activates or increases the  
frequency, rate or extent of inner ear receptor cell differentiation." [GOC  
813 Pathogen[ P03346] interacts with 1 human partners:{Q92858}  
814 [Cluster 138]GO:0010044+P biological\_process [name] response to aluminum ion [def]  
"Any process that results in a change in state or activity of a cell or an organism (in  
terms of movement, secretion, enzyme production, gene expression, etc.) as a result of  
an aluminum ion stimulus." [GOC  
815 Pathogen[ POC214] interacts with 1 human partners:{P09417}  
816 [Cluster 139]GO:0032916+P biological\_process [name] positive regulation of  
transforming growth factor beta3 production [def] "Any process that activates or  
increases the frequency, rate, or extent of production of transforming growth  
factor-beta3." [GOC  
817 Pathogen[ Q2Q067] interacts with 1 human partners:{P84022}  
818 Pathogen[ POC214] interacts with 2 human partners:{P84022;P16220}  
819 Pathogen[ P03346] interacts with 2 human partners:{P16220;P84022}  
820 Pathogen[ Q85601] interacts with 2 human partners:{P16220;P84022}  
821 Pathogen[ P03383] interacts with 2 human partners:{P16220;P84022}  
822 Pathogen[ P03410] interacts with 2 human partners:{P84022;P16220}  
823 Pathogen[ P14075] interacts with 2 human partners:{P16220;P84022}  
824 Pathogen[ POC206] interacts with 2 human partners:{P84022;P16220}  
825 Pathogen[ P03363] interacts with 2 human partners:{P16220;P84022}  
826 [Cluster 140]GO:0040036+P biological\_process [name] regulation of fibroblast growth  
factor receptor signaling pathway [def] "Any process that modulates the frequency,  
rate or extent of fibroblast growth factor receptor signaling pathway activity." [GOC  
827 Pathogen[ POC214] interacts with 1 human partners:{P32243}  
828 Pathogen[ P03346] interacts with 1 human partners:{P32243}  
829 Pathogen[ Q85601] interacts with 1 human partners:{P32243}  
830 Pathogen[ P14079] interacts with 1 human partners:{P32243}  
831 Pathogen[ P03383] interacts with 1 human partners:{P32243}  
832 Pathogen[ P03410] interacts with 1 human partners:{P32243}  
833 Pathogen[ P14075] interacts with 1 human partners:{P32243}  
834 Pathogen[ POC206] interacts with 1 human partners:{P32243}  
835 Pathogen[ P03363] interacts with 1 human partners:{P32243}  
836 [Cluster 141]GO:0006027+P biological\_process [name] glycosaminoglycan catabolic  
process [def] "The chemical reactions and pathways resulting in the breakdown of  
glycosaminoglycans, any one of a group of polysaccharides that contain amino sugars."

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[ISBN
837 Pathogen[ P0C214] interacts with 1 human partners:{P16278}
838 Pathogen[ P03346] interacts with 1 human partners:{P16278}
839 Pathogen[ P14079] interacts with 4 human partners:{P16278;P04066;P54802;P35475}
840 Pathogen[ P03410] interacts with 3 human partners:{P04066;P54802;P16278}
841 Pathogen[ P0C206] interacts with 1 human partners:{P16278}
842 [Cluster 142]GO:0046475+P biological_process [name] glycerophospholipid catabolic
process [def] "The chemical reactions and pathways resulting in the breakdown of
glycerophospholipids, any derivative of glycerophosphate that contains at least one
O-acyl, O-alkyl, or O-alkenyl group attached to the glycerol residue." [ISBN
843 Pathogen[ P14079] interacts with 1 human partners:{Q9NXE4}
844 Pathogen[ P03410] interacts with 1 human partners:{Q9NXE4}
845 [Cluster 143]GO:0060292+P biological_process [name] long term synaptic depression
[def] "A process that modulates synaptic plasticity such that synapses are changed
resulting in the decrease in the rate, or frequency of synaptic transmission at the
synapse." [GOC
846 Pathogen[ Q2Q067] interacts with 1 human partners:{P11831}
847 Pathogen[ P0C214] interacts with 1 human partners:{P11831}
848 Pathogen[ P03346] interacts with 1 human partners:{P11831}
849 Pathogen[ Q85601] interacts with 1 human partners:{P11831}
850 Pathogen[ P03383] interacts with 1 human partners:{P11831}
851 Pathogen[ P03410] interacts with 1 human partners:{P11831}
852 Pathogen[ P14075] interacts with 1 human partners:{P11831}
853 Pathogen[ P0C206] interacts with 1 human partners:{P11831}
854 Pathogen[ P03363] interacts with 1 human partners:{P11831}
855 [Cluster 144]GO:0021797+P biological_process [name] forebrain anterior/posterior
pattern specification [def] "The creation of specific areas of progenitor domains
along the anterior-posterior axis of the developing forebrain." [GO_REF
856 Pathogen[ P03346] interacts with 1 human partners:{O95343}
857 Pathogen[ P03363] interacts with 1 human partners:{O95343}
858 [Cluster 145]GO:0032286+P biological_process [name] central nervous system myelin
maintenance [def] "The process in which the structure and material content of mature
central nervous system myelin is kept in a functional state." [GOC
859 Pathogen[ P14079] interacts with 1 human partners:{Q9Y2G1}
860 Pathogen[ P03410] interacts with 1 human partners:{Q9Y2G1}
861 [Cluster 146]GO:2001170+P biological_process [name] negative regulation of ATP
biosynthetic process [def] "Any process that stops, prevents or reduces the
frequency, rate or extent of ATP biosynthetic process." [GOC
862 Pathogen[ Q2Q067] interacts with 1 human partners:{Q7Z2X4}
863 Pathogen[ P0C214] interacts with 1 human partners:{Q7Z2X4}
864 Pathogen[ P03346] interacts with 1 human partners:{Q7Z2X4}
865 Pathogen[ Q85601] interacts with 1 human partners:{Q7Z2X4}
866 Pathogen[ P14079] interacts with 1 human partners:{Q7Z2X4}
867 Pathogen[ P03410] interacts with 1 human partners:{Q7Z2X4}
868 Pathogen[ P0C206] interacts with 1 human partners:{Q7Z2X4}
869 [Cluster 147]GO:0021526+P biological_process [name] medial motor column neuron
differentiation [def] "The process in which differentiating motor neurons in the neural
tube acquire the specialized structural and/or functional features of medial motor
column neurons. Medial motor column neurons are generated at all rostrocaudal levels and
send axons to the axial muscles (medial group) and to the body wall muscles (lateral
group). Differentiation includes the processes involved in commitment of a cell to a
specific fate." [GO_REF
870 Pathogen[ P03346] interacts with 2 human partners:{Q969G2;Q9UBR4}
871 Pathogen[ P0C206] interacts with 2 human partners:{Q969G2;Q9UBR4}
872 [Cluster 148]GO:0019242+P biological_process [name] methylglyoxal biosynthetic
process [def] "The chemical reactions and pathways resulting in the formation of
methylglyoxal, CH3-CO-CHO, the aldehyde of pyruvic acid." [GOC
873 Pathogen[ Q2Q067] interacts with 1 human partners:{P06744}
874 Pathogen[ P03346] interacts with 1 human partners:{P06744}
875 Pathogen[ Q85601] interacts with 1 human partners:{P06744}
876 Pathogen[ P14079] interacts with 1 human partners:{P06744}
877 Pathogen[ P03383] interacts with 1 human partners:{P06744}
878 Pathogen[ P03410] interacts with 1 human partners:{P06744}
879 Pathogen[ P14075] interacts with 1 human partners:{P06744}
880 Pathogen[ P0C206] interacts with 1 human partners:{P06744}
881 Pathogen[ P03363] interacts with 1 human partners:{P06744}
882 [Cluster 149]GO:0021599+P biological_process [name] abducens nerve formation [def]
"The process that gives rise to the abducens nerve. This process pertains to the initial
formation of a structure from unspecified parts. The motor function of the abducens
nerve is to contract the lateral rectus which results in abduction of the eye." [GO_REF
883 Pathogen[ Q2Q067] interacts with 1 human partners:{P49639}
884 Pathogen[ P0C214] interacts with 1 human partners:{P49639}
885 Pathogen[ P03346] interacts with 1 human partners:{P49639}
886 Pathogen[ Q85601] interacts with 1 human partners:{P49639}
887 Pathogen[ P14079] interacts with 1 human partners:{P49639}
888 Pathogen[ P03383] interacts with 1 human partners:{P49639}

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889 Pathogen[ P03410] interacts with 1 human partners:{P49639}

890 Pathogen[ P0C206] interacts with 1 human partners:{P49639}

891 Pathogen[ P03363] interacts with 1 human partners:{P49639}

892 [Cluster 150]GO:0042772+P biological\_process [name] DNA damage response, signal transduction resulting in transcription [def] "A cascade of processes initiated in response to the detection of DNA damage, and resulting in the induction of transcription." [GOC

893 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UI95}

894 Pathogen[ P0C214] interacts with 1 human partners:{Q9UI95}

895 Pathogen[ P03346] interacts with 1 human partners:{Q9UI95}

896 Pathogen[ Q85601] interacts with 1 human partners:{Q9UI95}

897 Pathogen[ P03383] interacts with 1 human partners:{Q9UI95}

898 Pathogen[ P03410] interacts with 1 human partners:{Q9UI95}

899 Pathogen[ P14075] interacts with 1 human partners:{Q9UI95}

900 Pathogen[ P0C206] interacts with 1 human partners:{Q9UI95}

901 Pathogen[ P03363] interacts with 1 human partners:{Q9UI95}

902 [Cluster 151]GO:0006304+P biological\_process [name] DNA modification [def] "The covalent alteration of one or more nucleotide sites in DNA, resulting in a change in its properties." [GOC

903 Pathogen[ Q2Q067] interacts with 1 human partners:{P04053}

904 Pathogen[ P0C214] interacts with 1 human partners:{P04053}

905 Pathogen[ P03346] interacts with 1 human partners:{P04053}

906 Pathogen[ Q85601] interacts with 1 human partners:{P04053}

907 Pathogen[ P14079] interacts with 1 human partners:{P04053}

908 Pathogen[ P03410] interacts with 1 human partners:{P04053}

909 Pathogen[ P0C206] interacts with 1 human partners:{P04053}

910 Pathogen[ P03363] interacts with 1 human partners:{P04053}

911 [Cluster 152]GO:0035881+P biological\_process [name] amacrine cell differentiation [def] "The process in which a relatively unspecialized cell acquires specialized features of an amacrine cell, an interneuron generated in the inner nuclear layer (INL) of the vertebrate retina. Amacrine cells integrate, modulate, and interpose a temporal domain in the visual message presented to the retinal ganglion cells, with which they synapse in the inner plexiform layer. Amacrine cells lack large axons." [CL

912 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13562}

913 Pathogen[ P03346] interacts with 2 human partners:{Q9HD90;Q13562}

914 Pathogen[ Q85601] interacts with 1 human partners:{Q13562}

915 Pathogen[ P0C206] interacts with 1 human partners:{Q13562}

916 [Cluster 153]GO:0072176+P biological\_process [name] nephric duct development [def] "The process whose specific outcome is the progression of a nephric duct over time, from its initial formation to a mature structure. A nephric duct is a tube that drains a primitive kidney." [GOC

917 Pathogen[ Q2Q067] interacts with 1 human partners:{P35680}

918 Pathogen[ P03346] interacts with 1 human partners:{P35680}

919 Pathogen[ Q85601] interacts with 1 human partners:{P35680}

920 Pathogen[ P14079] interacts with 1 human partners:{P35680}

921 Pathogen[ P03410] interacts with 1 human partners:{P35680}

922 Pathogen[ P0C206] interacts with 1 human partners:{P35680}

923 [Cluster 154]GO:0033617+P biological\_process [name] mitochondrial respiratory chain complex IV assembly [def] "The aggregation, arrangement and bonding together of a set of components to form respiratory chain complex IV (also known as cytochrome c oxidase) in the mitochondrial inner membrane." [GOC

924 Pathogen[ P14079] interacts with 1 human partners:{Q96I36}

925 Pathogen[ P03410] interacts with 1 human partners:{Q96I36}

926 [Cluster 155]GO:0002674+P biological\_process [name] negative regulation of acute inflammatory response [def] "Any process that stops, prevents, or reduces the frequency, rate, or extent of an acute inflammatory response." [GOC

927 Pathogen[ P14079] interacts with 1 human partners:{P04083}

928 [Cluster 156]GO:0090044+P biological\_process [name] positive regulation of tubulin deacetylation [def] "Any process that increases the frequency, rate or extent of tubulin deacetylation. Tubulin deacetylation is the removal of an acetyl group from a protein amino acid." [GOC

929 Pathogen[ Q2Q067] interacts with 1 human partners:{P49354}

930 Pathogen[ P0C214] interacts with 1 human partners:{P49354}

931 Pathogen[ P03346] interacts with 1 human partners:{P49354}

932 Pathogen[ Q85601] interacts with 1 human partners:{P49354}

933 Pathogen[ P14079] interacts with 1 human partners:{P49354}

934 Pathogen[ P03410] interacts with 1 human partners:{P49354}

935 Pathogen[ P0C206] interacts with 1 human partners:{P49354}

936 Pathogen[ P03363] interacts with 1 human partners:{P49354}

937 [Cluster 157]GO:0018344+P biological\_process [name] protein geranylgeranylation [def] "The covalent attachment of a geranylgeranyl group to a protein." [GOC

938 Pathogen[ Q2Q067] interacts with 1 human partners:{P49354}

939 Pathogen[ P0C214] interacts with 1 human partners:{P49354}

940 Pathogen[ P03346] interacts with 1 human partners:{P49354}

941 Pathogen[ Q85601] interacts with 1 human partners:{P49354}

942 Pathogen[ P14079] interacts with 1 human partners:{P49354}

943 Pathogen[ P03410] interacts with 1 human partners:{P49354}

944 Pathogen[ P0C206] interacts with 1 human partners:{P49354}

945 Pathogen[ P03363] interacts with 1 human partners:{P49354}

946 [Cluster 158]GO:0006684+P biological\_process [name] sphingomyelin metabolic process  
[def] "The chemical reactions and pathways involving sphingomyelin, N-acyl-4-sphingeny-1-O-phosphorylcholine, any of a class of phospholipids in which the amino group of sphingosine is in amide linkage with one of several fatty acids, while the terminal hydroxyl group of sphingosine is esterified to phosphorylcholine." [ISBN

947 Pathogen[ P14079] interacts with 2 human partners:{Q99728;P17405}

948 Pathogen[ P03410] interacts with 1 human partners:{P17405}

949 [Cluster 159]GO:0001894+P biological\_process [name] tissue homeostasis [def] "A homeostatic process involved in the maintenance of an internal steady state within a defined tissue of an organism, including control of cellular proliferation and death and control of metabolic function." [GOC

950 Pathogen[ Q2Q067] interacts with 1 human partners:{Q99728}

951 Pathogen[ P0C214] interacts with 1 human partners:{Q99728}

952 Pathogen[ P03346] interacts with 2 human partners:{P31271;Q99728}

953 Pathogen[ Q85601] interacts with 2 human partners:{Q99728;P31271}

954 Pathogen[ P14079] interacts with 2 human partners:{P31271;P81277}

955 Pathogen[ P03410] interacts with 1 human partners:{P81277}

956 Pathogen[ P0C206] interacts with 2 human partners:{Q99728;P31271}

957 Pathogen[ P03363] interacts with 2 human partners:{P31271;Q99728}

958 [Cluster 160]GO:0008295+P biological\_process [name] spermidine biosynthetic process  
[def] "The chemical reactions and pathways resulting in the formation of spermidine, N-(3-aminopropyl)-1,4-diaminobutane." [GOC

959 Pathogen[ P0C214] interacts with 1 human partners:{P19623}

960 Pathogen[ P14079] interacts with 2 human partners:{P17707;P19623}

961 Pathogen[ P03410] interacts with 2 human partners:{P19623;P17707}

962 [Cluster 161]GO:0072308+P biological\_process [name] negative regulation of metanephric nephron tubule epithelial cell differentiation [def] "Any process that decreases the frequency, rate or extent of metanephric nephron tubule epithelial cell differentiation." [GOC

963 Pathogen[ Q2Q067] interacts with 1 human partners:{P42224}

964 Pathogen[ P0C214] interacts with 1 human partners:{P42224}

965 Pathogen[ P03346] interacts with 1 human partners:{P42224}

966 Pathogen[ Q85601] interacts with 1 human partners:{P42224}

967 Pathogen[ P14079] interacts with 1 human partners:{P42224}

968 Pathogen[ P0C206] interacts with 1 human partners:{P42224}

969 [Cluster 162]GO:0034765+P biological\_process [name] regulation of ion transmembrane transport [def] "Any process that modulates the frequency, rate or extent of the directed movement of ions from one side of a membrane to the other." [GOC

970 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96PU5}

971 Pathogen[ P0C214] interacts with 2 human partners:{O00308;Q96PU5}

972 Pathogen[ P03346] interacts with 4 human partners:{Q96PU5;O00299;O95833;O00308}

973 Pathogen[ Q85601] interacts with 1 human partners:{Q96PU5}

974 Pathogen[ P14079] interacts with 2 human partners:{P0CG08;B7ZAQ6}

975 Pathogen[ P03410] interacts with 3 human partners:{B7ZAQ6;P0CG08;Q96D96}

976 Pathogen[ P0C206] interacts with 4 human partners:{Q96PU5;O00308;P0CG08;B7ZAQ6}

977 Pathogen[ P03363] interacts with 3 human partners:{Q96PU5;O00308;O95833}

978 [Cluster 163]GO:0048675+P biological\_process [name] axon extension [def] "Long distance growth of a single process." [GOC

979 Pathogen[ P14079] interacts with 1 human partners:{P16298}

980 Pathogen[ P03363] interacts with 1 human partners:{Q7L576}

981 [Cluster 164]GO:0003183+P biological\_process [name] mitral valve morphogenesis [def] "The process in which the structure of the mitral valve is generated and organized." [GOC

982 Pathogen[ P03346] interacts with 1 human partners:{Q06945}

983 [Cluster 165]GO:0008588+P biological\_process [name] release of cytoplasmic sequestered NF-kappaB [def] "The release of NF-kappaB from specific molecules in the cytoplasm to which it was bound, thereby allowing its translocation into the nucleus." [GOC

984 Pathogen[ Q2Q067] interacts with 1 human partners:{Q15654}

985 Pathogen[ P0C214] interacts with 1 human partners:{Q15654}

986 Pathogen[ P03346] interacts with 1 human partners:{Q15654}

987 Pathogen[ Q85601] interacts with 1 human partners:{Q15654}

988 Pathogen[ P03383] interacts with 1 human partners:{Q15654}

989 Pathogen[ P03410] interacts with 1 human partners:{Q15654}

990 Pathogen[ P14079] interacts with 1 human partners:{Q15654}

991 Pathogen[ P0C206] interacts with 1 human partners:{Q15654}

992 Pathogen[ P03363] interacts with 1 human partners:{Q15654}

993 [Cluster 166]GO:0014050+P biological\_process [name] negative regulation of glutamate secretion [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the controlled release of glutamate." [GOC

994 Pathogen[ P14079] interacts with 1 human partners:{P20396}

995 Pathogen[ P03410] interacts with 1 human partners:{P20396}

996 Pathogen[ P0C206] interacts with 1 human partners:{P20396}



997 [Cluster 167]GO:0060439+P biological\_process [name] trachea morphogenesis [def] "The process in which a trachea is generated and organized. The trachea is the portion of the airway that attaches to the bronchi as it branches." [GOC]

998 Pathogen[ Q2Q067] interacts with 1 human partners:{P20719}

999 Pathogen[ P03346] interacts with 1 human partners:{P20719}

1000 Pathogen[ P0C206] interacts with 1 human partners:{P20719}

1001 Pathogen[ P03363] interacts with 1 human partners:{P20719}

1002 [Cluster 168]GO:0001916+P biological\_process [name] positive regulation of T cell mediated cytotoxicity [def] "Any process that activates or increases the frequency, rate or extent of T cell mediated cytotoxicity." [GOC]

1003 Pathogen[ P14079] interacts with 1 human partners:{P29459}

1004 Pathogen[ P03410] interacts with 1 human partners:{P29459}

1005 [Cluster 169]GO:0030856+P biological\_process [name] regulation of epithelial cell differentiation [def] "Any process that modulates the frequency, rate or extent of epithelial cell differentiation." [GOC]

1006 Pathogen[ Q2Q067] interacts with 1 human partners:{P25063}

1007 Pathogen[ P0C214] interacts with 1 human partners:{P25063}

1008 Pathogen[ P03346] interacts with 2 human partners:{Q2LD37;P25063}

1009 Pathogen[ P14079] interacts with 2 human partners:{Q2LD37;P25063}

1010 Pathogen[ P03383] interacts with 1 human partners:{P25063}

1011 Pathogen[ P03410] interacts with 2 human partners:{P25063;Q2LD37}

1012 Pathogen[ P14075] interacts with 2 human partners:{Q2LD37;P25063}

1013 Pathogen[ P0C206] interacts with 2 human partners:{Q2LD37;P25063}

1014 Pathogen[ P03363] interacts with 1 human partners:{Q2LD37}

1015 [Cluster 170]GO:0048486+P biological\_process [name] parasympathetic nervous system development [def] "The process whose specific outcome is the progression of the parasympathetic nervous system over time, from its formation to the mature structure. The parasympathetic nervous system is one of the two divisions of the vertebrate autonomic nervous system. Parasympathetic nerves emerge cranially as pre ganglionic fibers from oculomotor, facial, glossopharyngeal and vagus and from the sacral region of the spinal cord. Most neurons are cholinergic and responses are mediated by muscarinic receptors. The parasympathetic system innervates, for example

1016 Pathogen[ Q2Q067] interacts with 1 human partners:{O14813}

1017 Pathogen[ P0C214] interacts with 1 human partners:{O14813}

1018 Pathogen[ P03346] interacts with 1 human partners:{O14813}

1019 Pathogen[ Q85601] interacts with 1 human partners:{O14813}

1020 Pathogen[ P14079] interacts with 1 human partners:{O14813}

1021 Pathogen[ P03410] interacts with 1 human partners:{O14813}

1022 Pathogen[ P0C206] interacts with 1 human partners:{O14813}

1023 Pathogen[ P03363] interacts with 1 human partners:{O14813}

1024 [Cluster 171]GO:0021610+P biological\_process [name] facial nerve morphogenesis [def] "The process in which the anatomical structure of the facial nerve is generated and organized. This sensory and motor nerve supplies the muscles of facial expression and the expression and taste at the anterior two-thirds of the tongue. The principal branches are the superficial orbital, buccal, palatine and hyomandibular. The main trunk synapses within pterygopalatine ganglion in the parotid gland and this ganglion then gives of nerve branches which supply the lacrimal gland and the mucous secreting glands of the nasal and oral cavities." [GO\_REF]

1025 Pathogen[ P03346] interacts with 1 human partners:{Q15475}

1026 [Cluster 172]GO:0007218+P biological\_process [name] neuropeptide signaling pathway [def] "The series of molecular signals generated as a consequence of a peptide neurotransmitter binding to a cell surface receptor." [GOC]

1027 Pathogen[ P14079] interacts with 6 human partners:{Q9UHF0;P05408;O95156;O43612;Q8N729;Q8NG41}

1028 Pathogen[ P03410] interacts with 8 human partners:{Q8NG41;Q8N729;O43612;O95158;Q9UHF0;P05408;Q96A98;O95156}

1029 Pathogen[ P0C206] interacts with 1 human partners:{Q8N729}

1030 Pathogen[ P03363] interacts with 1 human partners:{Q8N729}

1031 [Cluster 173]GO:0009440+P biological\_process [name] cyanate catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of cyanate, NCO-, the anion of cyanic acid." [ISBN]

1032 Pathogen[ P0C214] interacts with 1 human partners:{Q16762}

1033 Pathogen[ P14079] interacts with 1 human partners:{Q16762}

1034 Pathogen[ P03410] interacts with 1 human partners:{Q16762}

1035 Pathogen[ P0C206] interacts with 1 human partners:{Q16762}

1036 [Cluster 174]GO:0060123+P biological\_process [name] regulation of growth hormone secretion [def] "Any process that modulates the frequency, rate or extent of the regulated release of growth hormone from a cell or group of cells." [GOC]

1037 Pathogen[ P03346] interacts with 1 human partners:{Q9P2D1}

1038 Pathogen[ Q85601] interacts with 1 human partners:{Q9P2D1}

1039 Pathogen[ P14079] interacts with 1 human partners:{Q9P2D1}

1040 Pathogen[ P03410] interacts with 1 human partners:{Q9P2D1}

1041 Pathogen[ P0C206] interacts with 1 human partners:{Q9P2D1}

1042 [Cluster 175]GO:0016236+P biological\_process [name] macroautophagy [def] "The major inducible pathway for the general turnover of cytoplasmic constituents in eukaryotic cells, it is also responsible for the degradation of active cytoplasmic enzymes and

organelles during nutrient starvation. Macroautophagy involves the formation of double-membrane-bounded autophagosomes which enclose the cytoplasmic constituent targeted for degradation in a membrane-bounded structure, which then fuse with the lysosome (or vacuole) releasing a single-membrane-bounded autophagic bodies which are then degraded within the lysosome (or vacuole). Though once thought to be a purely non-selective process, it appears that some types of macroautophagy, e.g. macropexophagy, macromitophagy, may involve selective targeting of the targets to be degraded." [PMID

1043 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13501}  
 1044 Pathogen[ P0C214] interacts with 1 human partners:{Q13501}  
 1045 Pathogen[ P03346] interacts with 2 human partners:{Q14596;Q13501}  
 1046 Pathogen[ Q85601] interacts with 2 human partners:{Q14596;Q13501}  
 1047 Pathogen[ P14079] interacts with 2 human partners:{Q14596;Q13501}  
 1048 Pathogen[ P03383] interacts with 1 human partners:{Q13501}  
 1049 Pathogen[ P03410] interacts with 2 human partners:{Q13501;Q14596}  
 1050 Pathogen[ P14075] interacts with 1 human partners:{Q13501}  
 1051 Pathogen[ P0C206] interacts with 2 human partners:{Q13501;Q14596}  
 1052 [Cluster 176]GO:2000179+P biological\_process [name] positive regulation of neural precursor cell proliferation [def] "Any process that activates or increases the frequency, rate or extent of neural precursor cell proliferation." [GOC  
 1053 Pathogen[ P14079] interacts with 1 human partners:{P48681}  
 1054 [Cluster 177]GO:0007016+P biological\_process [name] cytoskeletal anchoring at plasma membrane [def] "A cytoskeleton organization process that directly or indirectly links cytoskeletal filaments to the plasma membrane." [ISBN  
 1055 Pathogen[ P03346] interacts with 1 human partners:{Q9Y4G6}  
 1056 Pathogen[ P14079] interacts with 2 human partners:{Q14118;Q9Y4G6}  
 1057 Pathogen[ P03410] interacts with 2 human partners:{Q14118;Q9Y4G6}  
 1058 Pathogen[ P03363] interacts with 1 human partners:{Q9Y4G6}  
 1059 [Cluster 178]GO:0003106+P biological\_process [name] negative regulation of glomerular filtration by angiotensin [def] "The process in which angiotensin directly decreases the rate of glomerular filtration in the kidney. Glomerular filtration is the process whereby blood is filtered by the glomerulus into the renal tubule." [GOC  
 1060 Pathogen[ P14079] interacts with 1 human partners:{P13498}  
 1061 [Cluster 179]GO:2000278+P biological\_process [name] regulation of DNA biosynthetic process [def] "Any process that modulates the frequency, rate or extent of DNA biosynthetic process." [GOC  
 1062 Pathogen[ Q2Q067] interacts with 1 human partners:{P38936}  
 1063 Pathogen[ P0C214] interacts with 1 human partners:{P38936}  
 1064 Pathogen[ P03346] interacts with 2 human partners:{Q9NRF2;P38936}  
 1065 Pathogen[ Q85601] interacts with 1 human partners:{P38936}  
 1066 Pathogen[ P14079] interacts with 1 human partners:{P38936}  
 1067 Pathogen[ P03410] interacts with 1 human partners:{P38936}  
 1068 Pathogen[ P0C206] interacts with 1 human partners:{P38936}  
 1069 [Cluster 180]GO:0030046+P biological\_process [name] parallel actin filament bundle assembly [def] "Assembly of actin filament bundles in which the filaments are tightly packed (approximately 10-20 nm apart) and oriented with the same polarity." [GOC  
 1070 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9Y6N9}  
 1071 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y6N9}  
 1072 Pathogen[ P03346] interacts with 1 human partners:{Q9Y6N9}  
 1073 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y6N9}  
 1074 Pathogen[ P14079] interacts with 1 human partners:{Q9Y6N9}  
 1075 Pathogen[ P03410] interacts with 1 human partners:{Q9Y6N9}  
 1076 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y6N9}  
 1077 Pathogen[ P03363] interacts with 1 human partners:{Q9Y6N9}  
 1078 [Cluster 181]GO:0060397+P biological\_process [name] JAK-STAT cascade involved in growth hormone signaling pathway [def] "The process in which STAT proteins (Signal Transducers and Activators of Transcription) are activated by members of the JAK (janus activated kinase) family of tyrosine kinases, following the binding of physiological ligands to the growth hormone receptor. Once activated, STATs dimerize and translocate to the nucleus and modulate the expression of target genes." [GOC  
 1079 Pathogen[ Q2Q067] interacts with 3 human partners:{P40763;O14508;P42224}  
 1080 Pathogen[ P0C214] interacts with 4 human partners:{P42224;O14508;P40763;O15524}  
 1081 Pathogen[ P03346] interacts with 4 human partners:{O15524;O14508;P42224;P40763}  
 1082 Pathogen[ Q85601] interacts with 3 human partners:{P40763;O14508;P42224}  
 1083 Pathogen[ P14079] interacts with 2 human partners:{P42224;O14508}  
 1084 Pathogen[ P03410] interacts with 2 human partners:{O14508;P40763}  
 1085 Pathogen[ P0C206] interacts with 4 human partners:{O15524;O14508;P40763;P42224}  
 1086 Pathogen[ P03363] interacts with 2 human partners:{O15524;O14508}  
 1087 [Cluster 182]GO:0071420+P biological\_process [name] cellular response to histamine [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a histamine stimulus. Histamine, the biogenic amine 2-(1H-imidazol-4-yl)ethanamine, is involved in local immune responses as well as regulating physiological function in the gut and acting as a neurotransmitter." [GOC  
 1088 Pathogen[ P14079] interacts with 1 human partners:{O60610}  
 1089 Pathogen[ P03410] interacts with 1 human partners:{O60610}

1090 [Cluster 183]GO:0030970+P biological\_process [name] retrograde protein transport, ER to cytosol [def] "The directed movement of unfolded or misfolded proteins from the endoplasmic reticulum to the cytosol through the translocon." [PMID

1091 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BQE4}

1092 Pathogen[ P0C214] interacts with 2 human partners:{Q9BQE4;P55072}

1093 Pathogen[ P03346] interacts with 2 human partners:{P55072;Q9BUN8}

1094 Pathogen[ Q85601] interacts with 1 human partners:{Q9BQE4}

1095 Pathogen[ P14079] interacts with 4 human partners:{P60468;Q9BQE4;Q9GZP9;Q9BUN8}

1096 Pathogen[ P03383] interacts with 2 human partners:{Q9BUN8;Q9BQE4}

1097 Pathogen[ P03410] interacts with 4 human partners:{P60468;Q9GZP9;Q9BQE4;Q9BUN8}

1098 Pathogen[ P14075] interacts with 2 human partners:{Q9BQE4;Q9BUN8}

1099 Pathogen[ P0C206] interacts with 4 human partners:{Q9BQE4;Q9BUN8;Q9GZP9;P55072}

1100 [Cluster 184]GO:0051024+P biological\_process [name] positive regulation of immunoglobulin secretion [def] "Any process that activates or increases the frequency, rate or extent of the regulated release of immunoglobulins from a cell or group of cells." [GOC

1101 Pathogen[ P14079] interacts with 1 human partners:{O95760}

1102 Pathogen[ P03410] interacts with 1 human partners:{O95760}

1103 [Cluster 185]GO:0030277+P biological\_process [name] maintenance of gastrointestinal epithelium [def] "Protection of epithelial surfaces of the gastrointestinal tract from proteolytic and caustic digestive agents." [GOC

1104 Pathogen[ P0C214] interacts with 1 human partners:{P01011}

1105 Pathogen[ Q85601] interacts with 1 human partners:{P01011}

1106 Pathogen[ P03410] interacts with 1 human partners:{P01011}

1107 Pathogen[ P0C206] interacts with 1 human partners:{P01011}

1108 [Cluster 186]GO:0000917+P biological\_process [name] barrier septum assembly [def] "The assembly and arrangement of a septum that spans the plasma membrane interface between progeny cells following cytokinesis. The progeny cells that form a barrier septum are not able to exchange intracellular material." [GOC

1109 Pathogen[ P03346] interacts with 1 human partners:{Q9NQY0}

1110 Pathogen[ P14079] interacts with 1 human partners:{Q8N3Z3}

1111 Pathogen[ P03410] interacts with 2 human partners:{Q9NQY0;Q8N3Z3}

1112 Pathogen[ P0C206] interacts with 1 human partners:{Q9NQY0}

1113 Pathogen[ P03363] interacts with 1 human partners:{Q9NQY0}

1114 [Cluster 187]GO:0071279+P biological\_process [name] cellular response to cobalt ion [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a cobalt ion stimulus." [GOC

1115 Pathogen[ Q2Q067] interacts with 1 human partners:{Q12983}

1116 Pathogen[ P0C214] interacts with 1 human partners:{Q12983}

1117 Pathogen[ P03346] interacts with 1 human partners:{Q12983}

1118 Pathogen[ Q85601] interacts with 1 human partners:{Q12983}

1119 Pathogen[ P14079] interacts with 1 human partners:{Q12983}

1120 Pathogen[ P03383] interacts with 1 human partners:{Q12983}

1121 Pathogen[ P03410] interacts with 1 human partners:{Q12983}

1122 Pathogen[ P14075] interacts with 1 human partners:{Q12983}

1123 Pathogen[ P0C206] interacts with 1 human partners:{Q12983}

1124 [Cluster 188]GO:0006572+P biological\_process [name] tyrosine catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of tyrosine, an aromatic amino acid, 2-amino-3-(4-hydroxyphenyl)propanoic acid." [GOC

1125 Pathogen[ Q2Q067] interacts with 1 human partners:{O43708}

1126 Pathogen[ P0C214] interacts with 1 human partners:{O43708}

1127 Pathogen[ P03346] interacts with 1 human partners:{O43708}

1128 Pathogen[ Q85601] interacts with 1 human partners:{O43708}

1129 Pathogen[ P14079] interacts with 3 human partners:{Q93099;O43708;P16930}

1130 Pathogen[ P03410] interacts with 3 human partners:{O43708;Q93099;P16930}

1131 Pathogen[ P0C206] interacts with 1 human partners:{O43708}

1132 Pathogen[ P03363] interacts with 1 human partners:{O43708}

1133 [Cluster 189]GO:0014813+P biological\_process [name] satellite cell commitment [def] "The process in which the developmental fate of a cell becomes restricted such that it will develop into a satellite cell." [GOC

1134 Pathogen[ P03346] interacts with 1 human partners:{P23759}

1135 Pathogen[ P03363] interacts with 1 human partners:{P23759}

1136 [Cluster 190]GO:0051452+P biological\_process [name] intracellular pH reduction [def] "Any process that reduces the internal pH of a cell, measured by the concentration of the hydrogen ion." [GOC

1137 Pathogen[ P14079] interacts with 1 human partners:{B7ZAQ6}

1138 Pathogen[ P03410] interacts with 1 human partners:{B7ZAQ6}

1139 Pathogen[ P0C206] interacts with 1 human partners:{B7ZAQ6}

1140 [Cluster 191]GO:0007190+P biological\_process [name] activation of adenylate cyclase activity [def] "Any process that initiates the activity of the inactive enzyme adenylate cyclase." [GOC

1141 Pathogen[ P14079] interacts with 2 human partners:{Q01518;P40123}

1142 Pathogen[ P03410] interacts with 2 human partners:{P40123;Q01518}

1143 [Cluster 192]GO:0072236+P biological\_process [name] metanephric loop of Henle development [def] "The process whose specific outcome is the progression of the

metanephric loop of Henle over time, from its formation to the mature structure. The metanephric loop of Henle is a metanephric nephron tubule that connects the proximal convoluted tubule to the distal convoluted tubule in the metanephros." [GOC

1144 Pathogen[ P03346] interacts with 1 human partners:{P20264}

1145 Pathogen[ P03363] interacts with 1 human partners:{P20264}

1146 [Cluster 193]GO:0006781+P biological\_process [name] succinyl-CoA pathway [def] "The chemical reactions that utilize succinyl-CoA in the synthesis of protoporphyrin IX." [GOC

1147 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9P2R7}

1148 Pathogen[ P0C214] interacts with 1 human partners:{Q9P2R7}

1149 Pathogen[ Q85601] interacts with 1 human partners:{Q9P2R7}

1150 Pathogen[ P14079] interacts with 1 human partners:{Q9P2R7}

1151 Pathogen[ P03383] interacts with 1 human partners:{Q9P2R7}

1152 Pathogen[ P03410] interacts with 1 human partners:{Q9P2R7}

1153 Pathogen[ P14075] interacts with 1 human partners:{Q9P2R7}

1154 Pathogen[ P0C206] interacts with 1 human partners:{Q9P2R7}

1155 [Cluster 194]GO:0060602+P biological\_process [name] branch elongation of an epithelium [def] "The growth process in which a branch increases in length from its base to its tip." [GOC

1156 Pathogen[ P03346] interacts with 1 human partners:{P35453}

1157 Pathogen[ P03363] interacts with 1 human partners:{P35453}

1158 [Cluster 195]GO:0061053+P biological\_process [name] somite development [def] "The progression of a somite from its initial formation to the mature structure. Somites are mesodermal clusters that are arranged segmentally along the anterior posterior axis of an embryo." [GOC

1159 Pathogen[ P03346] interacts with 1 human partners:{Q06190}

1160 Pathogen[ P14079] interacts with 1 human partners:{Q06190}

1161 Pathogen[ P03410] interacts with 1 human partners:{Q06190}

1162 Pathogen[ P0C206] interacts with 1 human partners:{Q06190}

1163 Pathogen[ P03363] interacts with 1 human partners:{Q06190}

1164 [Cluster 196]GO:0060375+P biological\_process [name] regulation of mast cell differentiation [def] "Any process that modulates the rate, frequency or extent of mast cell differentiation, the process in which a relatively unspecialized myeloid precursor cell acquires the specialized features of a mast cell. A mast cell is a cell that is found in almost all tissues containing numerous basophilic granules and capable of releasing large amounts of histamine and heparin upon activation." [GOC

1165 Pathogen[ P03346] interacts with 1 human partners:{P17542}

1166 [Cluster 197]GO:0003014+P biological\_process [name] renal system process [def] "A organ system process carried out by any of the organs or tissues of the renal system. The renal system is responsible for fluid volume regulation and detoxification in an organism." [GOC

1167 Pathogen[ Q2Q067] interacts with 1 human partners:{Q7LG56}

1168 Pathogen[ P0C214] interacts with 1 human partners:{Q7LG56}

1169 Pathogen[ P03346] interacts with 1 human partners:{Q7LG56}

1170 Pathogen[ Q85601] interacts with 1 human partners:{Q7LG56}

1171 Pathogen[ P14079] interacts with 1 human partners:{Q7LG56}

1172 Pathogen[ P03410] interacts with 1 human partners:{Q7LG56}

1173 Pathogen[ P0C206] interacts with 1 human partners:{Q7LG56}

1174 [Cluster 198]GO:0044029+P biological\_process [name] hypomethylation of CpG island [def] "An decrease in the epigenetic methylation of cytosine and adenosine residues in a CpG island in DNA. CpG islands are genomic regions that contain a high frequency of the CG dinucleotide and are often associated with the transcription start site of genes." [GOC

1175 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UI56}

1176 Pathogen[ P0C214] interacts with 1 human partners:{Q9UI56}

1177 Pathogen[ P03346] interacts with 1 human partners:{Q9UI56}

1178 Pathogen[ P14079] interacts with 1 human partners:{Q9UI56}

1179 Pathogen[ P03383] interacts with 1 human partners:{Q9UI56}

1180 Pathogen[ P03410] interacts with 1 human partners:{Q9UI56}

1181 Pathogen[ P14075] interacts with 1 human partners:{Q9UI56}

1182 Pathogen[ P0C206] interacts with 1 human partners:{Q9UI56}

1183 Pathogen[ P03363] interacts with 1 human partners:{Q9UI56}

1184 [Cluster 199]GO:0009249+P biological\_process [name] protein lipoylation [def] "The addition of a lipoyl group to an amino acid residue in a protein." [GOC

1185 Pathogen[ Q2Q067] interacts with 1 human partners:{P30419}

1186 Pathogen[ P0C214] interacts with 3 human partners:{O60551;O14561;P30419}

1187 Pathogen[ Q85601] interacts with 2 human partners:{O60551;P30419}

1188 Pathogen[ P14079] interacts with 5 human partners:{Q16517;O14561;O60551;P30419;Q9Y234}

1189 Pathogen[ P03410] interacts with 5 human partners:{O60551;Q16517;P30419;Q9Y234;O14561}

1190 Pathogen[ P14075] interacts with 1 human partners:{O14561}

1191 Pathogen[ P0C206] interacts with 4 human partners:{Q9Y234;P30419;O14561;O60551}

1192 [Cluster 200]GO:0070541+P biological\_process [name] response to platinum ion [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a

platinum stimulus." [GOC  
1193 Pathogen[ POC214] interacts with 1 human partners:{P22830}  
1194 Pathogen[ P14079] interacts with 1 human partners:{P22830}  
1195 Pathogen[ P03410] interacts with 1 human partners:{P22830}  
1196 Pathogen[ POC206] interacts with 1 human partners:{P22830}  
1197 [Cluster 201]GO:0042998+P biological\_process [name] positive regulation of Golgi to plasma membrane protein transport [def] "Any process that activates or increases the frequency, rate or extent of the transport of proteins from the Golgi to the plasma membrane." [GOC  
1198 Pathogen[ P14079] interacts with 1 human partners:{Q6PJW8}  
1199 Pathogen[ P03410] interacts with 1 human partners:{Q6PJW8}  
1200 Pathogen[ POC206] interacts with 1 human partners:{Q6PJW8}  
1201 [Cluster 202]GO:0006720+P biological\_process [name] isoprenoid metabolic process [def] "The chemical reactions and pathways involving isoprenoid compounds, isoprene (2-methylbuta-1,3-diene) or compounds containing or derived from linked isoprene (3-methyl-2-butenylene) residues." [ISBN  
1202 Pathogen[ POC214] interacts with 1 human partners:{O14832}  
1203 Pathogen[ P14079] interacts with 1 human partners:{O14832}  
1204 Pathogen[ P03410] interacts with 1 human partners:{O14832}  
1205 Pathogen[ P14075] interacts with 1 human partners:{O14832}  
1206 Pathogen[ POC206] interacts with 1 human partners:{O14832}  
1207 [Cluster 203]GO:0051350+P biological\_process [name] negative regulation of lyase activity [def] "Any process that stops or reduces the rate of lyase activity, the catalysis of the cleavage of C-C, C-O, C-N and other bonds by other means than by hydrolysis or oxidation, or conversely adding a group to a double bond." [GOC  
1208 Pathogen[ P03346] interacts with 1 human partners:{Q9NRX4}  
1209 Pathogen[ P14079] interacts with 1 human partners:{Q9NRX4}  
1210 Pathogen[ P03410] interacts with 1 human partners:{Q9NRX4}  
1211 Pathogen[ POC206] interacts with 1 human partners:{Q9NRX4}  
1212 [Cluster 204]GO:0046655+P biological\_process [name] folic acid metabolic process [def] "The chemical reactions and pathways involving folic acid, pteroylglutamic acid. Folic acid is widely distributed as a member of the vitamin B complex and is essential for the synthesis of purine and pyrimidines." [ISBN  
1213 Pathogen[ Q2Q067] interacts with 1 human partners:{P34896}  
1214 Pathogen[ POC214] interacts with 5 human partners:{Q05932;P42898;P00374;P34896;P11586}  
1215 Pathogen[ Q85601] interacts with 1 human partners:{P34896}  
1216 Pathogen[ P14079] interacts with 5 human partners:{P00374;Q96NT5;Q05932;P34896;P42898}  
1217 Pathogen[ P03383] interacts with 1 human partners:{P34896}  
1218 Pathogen[ P03410] interacts with 4 human partners:{P00374;P42898;Q05932;P34896}  
1219 Pathogen[ P14075] interacts with 1 human partners:{P34896}  
1220 Pathogen[ POC206] interacts with 2 human partners:{P34896;Q05932}  
1221 [Cluster 205]GO:0046060+P biological\_process [name] dATP metabolic process [def] "The chemical reactions and pathways involving dATP, deoxyadenosine triphosphate (2'-deoxyadenosine 5'-triphosphate)." [GOC  
1222 Pathogen[ P14079] interacts with 1 human partners:{O60502}  
1223 Pathogen[ P03410] interacts with 1 human partners:{O60502}  
1224 [Cluster 206]GO:0001980+P biological\_process [name] regulation of systemic arterial blood pressure by ischemic conditions [def] "The process that modulates blood pressure by the detection of carbon dioxide levels in the brain stem. Increased levels activate the sympathetic vasoconstrictor mechanism increasing the force with which blood flows through the circulatory system." [GOC  
1225 Pathogen[ POC214] interacts with 1 human partners:{P19429}  
1226 Pathogen[ P14079] interacts with 1 human partners:{P19429}  
1227 Pathogen[ P03410] interacts with 1 human partners:{P19429}  
1228 Pathogen[ POC206] interacts with 1 human partners:{P19429}  
1229 Pathogen[ P03363] interacts with 1 human partners:{P19429}  
1230 [Cluster 207]GO:0034261+P biological\_process [name] negative regulation of Ras GTPase activity [def] "Any process that stops or reduces the rate of activity of a GTPase of the Ras superfamily." [GOC  
1231 Pathogen[ P14079] interacts with 1 human partners:{O43597}  
1232 Pathogen[ P03410] interacts with 1 human partners:{O43597}  
1233 Pathogen[ POC206] interacts with 1 human partners:{O43597}  
1234 [Cluster 208]GO:0019303+P biological\_process [name] D-ribose catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of D-ribose (ribo-pentose)." [ISBN  
1235 Pathogen[ P14079] interacts with 1 human partners:{Q9UKK9}  
1236 Pathogen[ P03410] interacts with 1 human partners:{Q9UKK9}  
1237 [Cluster 209]GO:0010767+P biological\_process [name] regulation of transcription from RNA polymerase II promoter in response to UV-induced DNA damage [def] "Any process that modulates the frequency, rate or extent of transcription from an RNA polymerase II promoter as a result of a UV damage stimulus." [GOC  
1238 Pathogen[ Q2Q067] interacts with 1 human partners:{O14757}  
1239 Pathogen[ POC214] interacts with 1 human partners:{O14757}  
1240 Pathogen[ P03346] interacts with 1 human partners:{O14757}

1241 Pathogen[ Q85601] interacts with 1 human partners:{O14757}

1242 Pathogen[ P03383] interacts with 1 human partners:{O14757}

1243 Pathogen[ P03410] interacts with 1 human partners:{O14757}

1244 Pathogen[ P14075] interacts with 1 human partners:{O14757}

1245 Pathogen[ P03363] interacts with 1 human partners:{O14757}

1246 [Cluster 210]GO:0034337+P biological\_process [name] RNA folding [def] "The process of assisting in the covalent and noncovalent assembly of single or multimeric RNAs into the correct tertiary structure." [GOC

1247 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UI56}

1248 Pathogen[ P0C214] interacts with 1 human partners:{Q9UI56}

1249 Pathogen[ P03346] interacts with 1 human partners:{Q9UI56}

1250 Pathogen[ P14079] interacts with 1 human partners:{Q9UI56}

1251 Pathogen[ P03383] interacts with 1 human partners:{Q9UI56}

1252 Pathogen[ P03410] interacts with 1 human partners:{Q9UI56}

1253 Pathogen[ P14075] interacts with 1 human partners:{Q9UI56}

1254 Pathogen[ P0C206] interacts with 1 human partners:{Q9UI56}

1255 Pathogen[ P03363] interacts with 1 human partners:{Q9UI56}

1256 [Cluster 211]GO:0051345+P biological\_process [name] positive regulation of hydrolase activity [def] "Any process that activates or increases the frequency, rate or extent of hydrolase activity, the catalysis of the hydrolysis of various bonds." [GOC

1257 Pathogen[ P03346] interacts with 1 human partners:{P07148}

1258 [Cluster 212]GO:0046185+P biological\_process [name] aldehyde catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of aldehydes, any organic compound with the formula R-CH=O." [GOC

1259 Pathogen[ Q2Q067] interacts with 1 human partners:{P06744}

1260 Pathogen[ P03346] interacts with 1 human partners:{P06744}

1261 Pathogen[ Q85601] interacts with 1 human partners:{P06744}

1262 Pathogen[ P14079] interacts with 1 human partners:{P06744}

1263 Pathogen[ P03383] interacts with 1 human partners:{P06744}

1264 Pathogen[ P03410] interacts with 1 human partners:{P06744}

1265 Pathogen[ P14075] interacts with 1 human partners:{P06744}

1266 Pathogen[ P0C206] interacts with 1 human partners:{P06744}

1267 Pathogen[ P03363] interacts with 1 human partners:{P06744}

1268 [Cluster 213]GO:0030705+P biological\_process [name] cytoskeleton-dependent intracellular transport [def] "The directed movement of substances along cytoskeletal elements such as microfilaments or microtubules within a cell." [GOC

1269 Pathogen[ P14079] interacts with 1 human partners:{P68363}

1270 Pathogen[ P03410] interacts with 2 human partners:{O60333;P68363}

1271 Pathogen[ P03363] interacts with 2 human partners:{P68363;O60333}

1272 [Cluster 214]GO:0050975+P biological\_process [name] sensory perception of touch [def] "The series of events required for an organism to receive a touch stimulus, convert it to a molecular signal, and recognize and characterize the signal. This is a neurological process. The perception of touch in animals is mediated by mechanoreceptors in the skin and mucous membranes and is the sense by which contact with objects gives evidence as to certain of their qualities. Different types of touch can be perceived (for example, light, coarse, pressure and tickling) and the stimulus may be external or internal (e.g. the feeling of a full stomach)." [GOC

1273 Pathogen[ Q2Q067] interacts with 1 human partners:{Q63HK5}

1274 Pathogen[ P0C214] interacts with 1 human partners:{Q63HK5}

1275 Pathogen[ P03346] interacts with 1 human partners:{Q63HK5}

1276 Pathogen[ Q85601] interacts with 1 human partners:{Q63HK5}

1277 Pathogen[ P14079] interacts with 1 human partners:{Q63HK5}

1278 Pathogen[ P03410] interacts with 1 human partners:{Q63HK5}

1279 Pathogen[ P0C206] interacts with 1 human partners:{Q63HK5}

1280 Pathogen[ P03363] interacts with 1 human partners:{Q63HK5}

1281 [Cluster 215]GO:0042706+P biological\_process [name] eye photoreceptor cell fate commitment [def] "The process in which the developmental fate of a cell becomes restricted such that it will develop into an eye photoreceptor cell. A photoreceptor cell is a cell that responds to incident electromagnetic radiation. Different classes of photoreceptor have different spectral sensitivities and express different photosensitive pigments." [GOC

1282 Pathogen[ P0C214] interacts with 1 human partners:{P32243}

1283 Pathogen[ P03346] interacts with 1 human partners:{P32243}

1284 Pathogen[ Q85601] interacts with 1 human partners:{P32243}

1285 Pathogen[ P14079] interacts with 1 human partners:{P32243}

1286 Pathogen[ P03383] interacts with 1 human partners:{P32243}

1287 Pathogen[ P03410] interacts with 1 human partners:{P32243}

1288 Pathogen[ P14075] interacts with 1 human partners:{P32243}

1289 Pathogen[ P0C206] interacts with 1 human partners:{P32243}

1290 Pathogen[ P03363] interacts with 1 human partners:{P32243}

1291 [Cluster 216]GO:0055013+P biological\_process [name] cardiac muscle cell development [def] "The process whose specific outcome is the progression of a cardiac muscle cell over time, from its formation to the mature state." [GOC

1292 Pathogen[ P14079] interacts with 1 human partners:{Q702N8}

1293 Pathogen[ P03410] interacts with 1 human partners:{Q702N8}

1294 [Cluster 217]GO:0035965+P biological\_process [name] cardiolipin acyl-chain remodeling

[def] "Remodeling the acyl chains of premature (de novo synthesized) cardiolipin (1,3-bis(3-phosphatidyl)glycerol), through sequential deacylation and re-acylation reactions, to generate mature cardiolipin containing high-levels of unsaturated fatty acids." [GOC

1295 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8N1Q8}

1296 Pathogen[ POC214] interacts with 2 human partners:{P40939;Q8N1Q8}

1297 Pathogen[ P03346] interacts with 1 human partners:{Q8N1Q8}

1298 Pathogen[ Q85601] interacts with 1 human partners:{Q8N1Q8}

1299 Pathogen[ P14079] interacts with 1 human partners:{Q8N1Q8}

1300 Pathogen[ P03383] interacts with 1 human partners:{Q8N1Q8}

1301 Pathogen[ P03410] interacts with 2 human partners:{Q8N1Q8;Q16635}

1302 Pathogen[ P14075] interacts with 1 human partners:{Q8N1Q8}

1303 Pathogen[ POC206] interacts with 1 human partners:{Q8N1Q8}

1304 [Cluster 218]GO:0060512+P biological\_process [name] prostate gland morphogenesis [def] "The process in which the anatomical structures of a prostate gland are generated and organized." [GOC

1305 Pathogen[ POC214] interacts with 1 human partners:{P36952}

1306 Pathogen[ Q85601] interacts with 1 human partners:{P36952}

1307 Pathogen[ P03383] interacts with 1 human partners:{P36952}

1308 Pathogen[ P03410] interacts with 1 human partners:{P36952}

1309 Pathogen[ POC206] interacts with 1 human partners:{P36952}

1310 Pathogen[ P03363] interacts with 1 human partners:{P36952}

1311 [Cluster 219]GO:0009056+P biological\_process [name] catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of substances, including the breakdown of carbon compounds with the liberation of energy for use by the cell or organism." [ISBN

1312 Pathogen[ P14079] interacts with 1 human partners:{Q96BW5}

1313 Pathogen[ P03410] interacts with 1 human partners:{Q96BW5}

1314 Pathogen[ POC206] interacts with 1 human partners:{Q96BW5}

1315 [Cluster 220]GO:0010842+P biological\_process [name] retina layer formation [def] "The process in which the vertebrate retina is organized into three laminae

1316 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NS56}

1317 Pathogen[ POC214] interacts with 2 human partners:{P05937;Q9NS56}

1318 Pathogen[ P03346] interacts with 5 human partners:{P05937;Q86Z02;Q9NS56;Q8N157;Q92481}

1319 Pathogen[ Q85601] interacts with 1 human partners:{Q9NS56}

1320 Pathogen[ P14079] interacts with 3 human partners:{P05937;Q8N157;Q9NS56}

1321 Pathogen[ P03410] interacts with 2 human partners:{P05937;Q8N157}

1322 Pathogen[ POC206] interacts with 2 human partners:{Q9NS56;Q8N157}

1323 Pathogen[ P03363] interacts with 2 human partners:{Q8N157;P05937}

1324 [Cluster 221]GO:0032854+P biological\_process [name] positive regulation of Rap GTPase activity [def] "Any process that activates or increases the activity of a GTPase of the Rap family." [GOC

1325 Pathogen[ P03346] interacts with 1 human partners:{Q96FS4}

1326 Pathogen[ P03363] interacts with 1 human partners:{Q96FS4}

1327 [Cluster 222]GO:0033189+P biological\_process [name] response to vitamin A [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a vitamin A stimulus." [GOC

1328 Pathogen[ POC214] interacts with 1 human partners:{P05543}

1329 Pathogen[ P14079] interacts with 1 human partners:{P11686}

1330 Pathogen[ P03410] interacts with 1 human partners:{P11686}

1331 [Cluster 223]GO:0048499+P biological\_process [name] synaptic vesicle membrane organization [def] "A process that is carried out at the cellular level which results in the assembly, arrangement of constituent parts, or disassembly of the membrane surrounding a synaptic vesicle." [GOC

1332 Pathogen[ P03346] interacts with 1 human partners:{O14617}

1333 Pathogen[ P14079] interacts with 1 human partners:{O14617}

1334 Pathogen[ P03410] interacts with 1 human partners:{O14617}

1335 Pathogen[ POC206] interacts with 1 human partners:{O14617}

1336 [Cluster 224]GO:0010621+P biological\_process [name] negative regulation of transcription by transcription factor localization [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of DNA-dependent transcription using a mechanism that involves the localization of a transcription factor." [GOC

1337 Pathogen[ Q2Q067] interacts with 1 human partners:{P41134}

1338 Pathogen[ POC214] interacts with 1 human partners:{P41134}

1339 Pathogen[ P03346] interacts with 1 human partners:{P41134}

1340 Pathogen[ Q85601] interacts with 1 human partners:{P41134}

1341 Pathogen[ P14079] interacts with 1 human partners:{P41134}

1342 Pathogen[ P03410] interacts with 1 human partners:{P41134}

1343 Pathogen[ POC206] interacts with 1 human partners:{P41134}

1344 Pathogen[ P03363] interacts with 1 human partners:{P41134}

1345 [Cluster 225]GO:0033274+P biological\_process [name] response to vitamin B2 [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a vitamin B2 stimulus." [GOC

1346 Pathogen[ Q2Q067] interacts with 1 human partners:{P49715}

1347 Pathogen[ P03346] interacts with 1 human partners:{P49715}

1348 Pathogen[ Q85601] interacts with 1 human partners:{P49715}

1349 Pathogen[ P14079] interacts with 1 human partners:{P49715}

1350 Pathogen[ P0C206] interacts with 1 human partners:{P49715}

1351 [Cluster 226]GO:0022615+P biological\_process [name] protein to membrane docking  
[def] "The initial attachment of a protein to a target membrane, mediated by a proteins protruding from the target membrane. Docking requires only that the proteins come close enough to interact and adhere." [GOC

1352 Pathogen[ P14079] interacts with 1 human partners:{Q9Y5Y5}

1353 Pathogen[ P03410] interacts with 1 human partners:{Q9Y5Y5}

1354 [Cluster 227]GO:0006707+P biological\_process [name] cholesterol catabolic process  
[def] "The chemical reactions and pathways resulting in the breakdown of cholesterol, cholest-5-en-3 beta-ol, the principal sterol of vertebrates and the precursor of many steroids, including bile acids and steroid hormones." [GOC

1355 Pathogen[ P03346] interacts with 1 human partners:{Q15036}

1356 Pathogen[ Q85601] interacts with 1 human partners:{Q15036}

1357 Pathogen[ P14079] interacts with 1 human partners:{Q15036}

1358 Pathogen[ P03410] interacts with 1 human partners:{Q15036}

1359 Pathogen[ P0C206] interacts with 1 human partners:{Q15036}

1360 [Cluster 228]GO:0060018+P biological\_process [name] astrocyte fate commitment  
[def] "The commitment of a cells to a specific astrocyte fate and its restriction to develop only into an astrocyte." [GOC

1361 Pathogen[ P03346] interacts with 2 human partners:{Q9NP62;P17542}

1362 Pathogen[ P0C206] interacts with 1 human partners:{Q9NP62}

1363 [Cluster 229]GO:0031342+P biological\_process [name] negative regulation of cell killing [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of cell killing." [GOC

1364 Pathogen[ P0C214] interacts with 1 human partners:{P18054}

1365 Pathogen[ P03346] interacts with 1 human partners:{P18054}

1366 [Cluster 230]GO:0060174+P biological\_process [name] limb bud formation [def] "The process pertaining to the initial formation of a limb bud from unspecified parts. This process begins with the formation of a local condensation of mesenchyme cells within the prospective limb field, and ends when a limb bud is recognizable." [GOC

1367 Pathogen[ P03346] interacts with 1 human partners:{Q06945}

1368 [Cluster 231]GO:0050716+P biological\_process [name] positive regulation of interleukin-1 secretion [def] "Any process that activates or increases the frequency, rate or extent of the regulated release of interleukin-1 from a cell or group of cells." [GOC

1369 Pathogen[ P14079] interacts with 1 human partners:{P0DJ18}

1370 Pathogen[ P03410] interacts with 1 human partners:{P0DJ18}

1371 [Cluster 232]GO:0072017+P biological\_process [name] distal tubule development  
[def] "The process whose specific outcome is the progression of the distal tubule over time, from its formation to the mature structure. In mammals, the distal tubule is a nephron tubule that begins at the macula densa and extends to the connecting tubule." [GOC

1372 Pathogen[ P03346] interacts with 1 human partners:{Q92481}

1373 [Cluster 233]GO:0034389+P biological\_process [name] lipid particle organization  
[def] "A process that is carried out at the cellular level which results in the assembly, arrangement of constituent parts, or disassembly of a lipid particle." [GOC

1374 Pathogen[ P14079] interacts with 2 human partners:{Q8N6M3;A5D6W6}

1375 Pathogen[ P03410] interacts with 2 human partners:{A5D6W6;Q8N6M3}

1376 Pathogen[ P14075] interacts with 1 human partners:{Q8N6M3}

1377 Pathogen[ P0C206] interacts with 2 human partners:{A5D6W6;Q8N6M3}

1378 [Cluster 234]GO:0021508+P biological\_process [name] floor plate formation [def] "The formation of a ventral region of glial cells in the neural tube that provides inductive signals for the specification of neuronal cell types. The floor plate is evident at the ventral midline by the neural fold stage." [GO\_REF

1379 Pathogen[ P03346] interacts with 1 human partners:{O75593}

1380 [Cluster 235]GO:0045956+P biological\_process [name] positive regulation of calcium ion-dependent exocytosis [def] "Any process that activates or increases the frequency, rate or extent of calcium ion-dependent exocytosis." [GOC

1381 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8TAC9}

1382 Pathogen[ P0C214] interacts with 1 human partners:{Q8TAC9}

1383 Pathogen[ P03346] interacts with 2 human partners:{Q8TAC9;Q9ULU8}

1384 Pathogen[ Q85601] interacts with 1 human partners:{Q8TAC9}

1385 Pathogen[ P14079] interacts with 2 human partners:{Q9ULU8;Q8TAC9}

1386 Pathogen[ P03383] interacts with 1 human partners:{Q8TAC9}

1387 Pathogen[ P03410] interacts with 2 human partners:{Q8TAC9;Q9ULU8}

1388 Pathogen[ P14075] interacts with 1 human partners:{Q8TAC9}

1389 Pathogen[ P0C206] interacts with 2 human partners:{Q9ULU8;Q8TAC9}

1390 [Cluster 236]GO:0033371+P biological\_process [name] T cell secretory granule organization [def] "A process that is carried out at the cellular level which results in the assembly, arrangement of constituent parts, or disassembly of a secretory granule in a T cell. A secretory granule is a small subcellular vesicle, surrounded by a membrane, that is formed from the Golgi apparatus and contains a highly concentrated



protein destined for secretion." [GOC

1391 Pathogen[ P0C214] interacts with 1 human partners:{P10124}

1392 Pathogen[ P14079] interacts with 1 human partners:{P10124}

1393 Pathogen[ P03383] interacts with 1 human partners:{P10124}

1394 Pathogen[ P03410] interacts with 1 human partners:{P10124}

1395 Pathogen[ P14075] interacts with 1 human partners:{P10124}

1396 Pathogen[ P0C206] interacts with 1 human partners:{P10124}

1397 [Cluster 237]GO:0035909+P biological\_process [name] aorta morphogenesis [def] "The process in which the anatomical structures of an aorta are generated and organized. An aorta is an artery that carries blood from the heart to other parts of the body." [GOC

1398 Pathogen[ Q2Q067] interacts with 1 human partners:{Q99502}

1399 Pathogen[ P0C214] interacts with 1 human partners:{Q99502}

1400 Pathogen[ P03346] interacts with 4 human partners:{Q99502;Q15475;Q92481;O75593}

1401 Pathogen[ Q85601] interacts with 1 human partners:{Q99502}

1402 Pathogen[ P14079] interacts with 1 human partners:{Q99502}

1403 Pathogen[ P03410] interacts with 1 human partners:{Q99502}

1404 Pathogen[ P14075] interacts with 1 human partners:{Q99502}

1405 Pathogen[ P0C206] interacts with 1 human partners:{Q99502}

1406 [Cluster 238]GO:0036148+P

1407 Pathogen[ P14079] interacts with 1 human partners:{Q9NZ20}

1408 Pathogen[ P03410] interacts with 1 human partners:{Q9NZ20}

1409 [Cluster 239]GO:0090312+P biological\_process [name] positive regulation of protein deacetylation [def] "Any process that increases the rate, frequency, or extent of protein deacetylation, the removal of an acetyl group from a protein amino acid. An acetyl group is CH3CO-, derived from acetic [ethanoic] acid." [GOC

1410 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9HCU9}

1411 Pathogen[ P0C214] interacts with 1 human partners:{Q9HCU9}

1412 Pathogen[ P03346] interacts with 1 human partners:{Q9HCU9}

1413 Pathogen[ Q85601] interacts with 1 human partners:{Q9HCU9}

1414 Pathogen[ P14079] interacts with 1 human partners:{Q9HCU9}

1415 Pathogen[ P03383] interacts with 1 human partners:{Q9HCU9}

1416 Pathogen[ P14075] interacts with 1 human partners:{Q9HCU9}

1417 Pathogen[ P0C206] interacts with 1 human partners:{Q9HCU9}

1418 Pathogen[ P03363] interacts with 1 human partners:{Q9HCU9}

1419 [Cluster 240]GO:0015693+P biological\_process [name] magnesium ion transport [def] "The directed movement of magnesium (Mg) ions into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore." [GOC

1420 Pathogen[ P14079] interacts with 6 human partners:{Q6NVV3;Q0D2K0;Q9H841;Q8N8Q9;Q6P499;Q7RTP0}

1421 Pathogen[ P03410] interacts with 6 human partners:{Q0D2K0;Q9H841;Q6NVV3;Q8N8Q9;Q7RTP0;Q6P499}

1422 [Cluster 241]GO:0045837+P biological\_process [name] negative regulation of membrane potential [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of establishment or extent of a membrane potential, the electric potential existing across any membrane arising from charges in the membrane itself and from the charges present in the media on either side of the membrane." [GOC

1423 Pathogen[ Q2Q067] interacts with 1 human partners:{Q12983}

1424 Pathogen[ P0C214] interacts with 1 human partners:{Q12983}

1425 Pathogen[ P03346] interacts with 1 human partners:{Q12983}

1426 Pathogen[ Q85601] interacts with 1 human partners:{Q12983}

1427 Pathogen[ P14079] interacts with 1 human partners:{Q12983}

1428 Pathogen[ P03383] interacts with 1 human partners:{Q12983}

1429 Pathogen[ P03410] interacts with 1 human partners:{Q12983}

1430 Pathogen[ P14075] interacts with 1 human partners:{Q12983}

1431 Pathogen[ P0C206] interacts with 1 human partners:{Q12983}

1432 [Cluster 242]GO:0048050+P biological\_process [name] post-embryonic eye morphogenesis [def] "The process, occurring after embryonic development, by which the anatomical structures of the eye are generated and organized. The eye is the organ of sight." [GOC

1433 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8NDY6}

1434 Pathogen[ P0C214] interacts with 1 human partners:{Q8NDY6}

1435 Pathogen[ P03346] interacts with 1 human partners:{Q8NDY6}

1436 Pathogen[ Q85601] interacts with 1 human partners:{Q8NDY6}

1437 Pathogen[ P14079] interacts with 1 human partners:{Q8NDY6}

1438 Pathogen[ P03410] interacts with 1 human partners:{Q8NDY6}

1439 Pathogen[ P0C206] interacts with 1 human partners:{Q8NDY6}

1440 Pathogen[ P03363] interacts with 1 human partners:{Q8NDY6}

1441 [Cluster 243]GO:0048621+P biological\_process [name] post-embryonic digestive tract morphogenesis [def] "The process, occurring during the post-embryonic phase, by which the anatomical structures of the digestive tract are generated and organized. The digestive tract is the anatomical structure through which food passes and is processed." [GOC

1442 Pathogen[ P03346] interacts with 1 human partners:{Q8TAU0}

1443 Pathogen[ P0C206] interacts with 1 human partners:{Q8TAU0}

1444 Pathogen[ P03363] interacts with 1 human partners:{Q8TAU0}

1445 [Cluster 244]GO:0006547+P biological\_process [name] histidine metabolic process [def] "The chemical reactions and pathways involving histidine,

2-amino-3-(1H-imidazol-4-yl)propanoic acid." [GOC

1446 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96NU7}

1447 Pathogen[ P0C214] interacts with 1 human partners:{Q96NU7}

1448 Pathogen[ P03346] interacts with 1 human partners:{Q96NU7}

1449 Pathogen[ P14079] interacts with 4 human partners:{P42357;Q96NU7;Q96N76;O95954}

1450 Pathogen[ P03410] interacts with 3 human partners:{O95954;Q96NU7;Q96N76}

1451 Pathogen[ P14075] interacts with 1 human partners:{Q96NU7}

1452 Pathogen[ P0C206] interacts with 2 human partners:{O95954;Q96NU7}

1453 [Cluster 245]GO:0001771+P biological\_process [name] immunological synapse formation  
[def] "The formation of an area of close contact between a lymphocyte (T-, B-, or natural killer cell) and a target cell through the clustering of particular signaling and adhesion molecules and their associated membrane rafts on both the lymphocyte and target cell, which facilitates activation of the lymphocyte, transfer of membrane from the target cell to the lymphocyte, and in some situations killing of the target cell through release of secretory granules and/or death-pathway ligand-receptor interaction." [GOC

1454 Pathogen[ Q2Q067] interacts with 1 human partners:{Q12959}

1455 Pathogen[ P0C214] interacts with 1 human partners:{Q12959}

1456 Pathogen[ P03346] interacts with 1 human partners:{Q12959}

1457 Pathogen[ Q85601] interacts with 1 human partners:{Q12959}

1458 Pathogen[ P03410] interacts with 1 human partners:{Q12959}

1459 Pathogen[ P0C206] interacts with 1 human partners:{Q12959}

1460 Pathogen[ P03363] interacts with 1 human partners:{Q12959}

1461 [Cluster 246]GO:0018872+P biological\_process [name] arsonoacetate metabolic process  
[def] "The chemical reactions and pathways involving arsonoacetate, a synthetic, organic compound containing a single arsenic atom. Arsonoacetate and other arsenic containing compounds are used in agricultural applications as animal feed additives, cotton defoliants and post-emergence grass herbicides." [UM-BBD\_pathwayID

1462 Pathogen[ P0C214] interacts with 1 human partners:{Q9HBK9}

1463 Pathogen[ P03346] interacts with 1 human partners:{Q9HBK9}

1464 Pathogen[ P14079] interacts with 1 human partners:{Q9HBK9}

1465 Pathogen[ P03410] interacts with 1 human partners:{Q9HBK9}

1466 Pathogen[ P0C206] interacts with 1 human partners:{Q9HBK9}

1467 Pathogen[ P03363] interacts with 1 human partners:{Q9HBK9}

1468 [Cluster 247]GO:0007079+P biological\_process [name] mitotic chromosome movement towards spindle pole [def] "The cell cycle process in which the directed movement of chromosomes from the center of the spindle towards the spindle poles occurs. This mediates by the shortening of microtubules attached to the chromosomes, during mitosis." [GOC

1469 Pathogen[ Q2Q067] interacts with 1 human partners:{Q15398}

1470 Pathogen[ P0C214] interacts with 1 human partners:{Q15398}

1471 Pathogen[ P03346] interacts with 1 human partners:{Q15398}

1472 Pathogen[ Q85601] interacts with 1 human partners:{Q15398}

1473 Pathogen[ P14079] interacts with 1 human partners:{Q15398}

1474 Pathogen[ P03410] interacts with 1 human partners:{Q15398}

1475 Pathogen[ P0C206] interacts with 1 human partners:{Q15398}

1476 Pathogen[ P03363] interacts with 1 human partners:{Q15398}

1477 [Cluster 248]GO:0035336+P biological\_process [name] long-chain fatty-acyl-CoA metabolic process [def] "The chemical reactions and pathways involving long-chain fatty-acyl-CoAs, any derivative of coenzyme A in which the sulfhydryl group is in a thioester linkage with a long-chain fatty-acyl group. Long-chain fatty-acyl-CoAs have chain lengths ranging from C12-18." [ISBN

1478 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8N1Q8}

1479 Pathogen[ P0C214] interacts with 1 human partners:{Q8N1Q8}

1480 Pathogen[ P03346] interacts with 1 human partners:{Q8N1Q8}

1481 Pathogen[ Q85601] interacts with 1 human partners:{Q8N1Q8}

1482 Pathogen[ P14079] interacts with 1 human partners:{Q8N1Q8}

1483 Pathogen[ P03383] interacts with 1 human partners:{Q8N1Q8}

1484 Pathogen[ P03410] interacts with 1 human partners:{Q8N1Q8}

1485 Pathogen[ P14075] interacts with 1 human partners:{Q8N1Q8}

1486 Pathogen[ P0C206] interacts with 1 human partners:{Q8N1Q8}

1487 [Cluster 249]GO:0071104+P biological\_process [name] response to interleukin-9 [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an interleukin-9 stimulus." [GOC

1488 Pathogen[ Q2Q067] interacts with 1 human partners:{Q99966}

1489 Pathogen[ P0C214] interacts with 1 human partners:{Q99966}

1490 Pathogen[ P03346] interacts with 1 human partners:{Q99966}

1491 Pathogen[ Q85601] interacts with 1 human partners:{Q99966}

1492 Pathogen[ P14079] interacts with 1 human partners:{Q99966}

1493 Pathogen[ P03410] interacts with 1 human partners:{Q99966}

1494 Pathogen[ P0C206] interacts with 1 human partners:{Q99966}

1495 [Cluster 250]GO:0006590+P biological\_process [name] thyroid hormone generation [def] "The formation of either of the compounds secreted by the thyroid gland, mainly thyroxine and triiodothyronine. This is achieved by the iodination and joining of tyrosine molecules to form the precursor thyroglobin, proteolysis of this precursor

gives rise to the thyroid hormones." [GOC

1496 Pathogen[ P14079] interacts with 1 human partners:{P01215}

1497 Pathogen[ P03383] interacts with 1 human partners:{P01215}

1498 Pathogen[ P03410] interacts with 1 human partners:{P01215}

1499 Pathogen[ P14075] interacts with 1 human partners:{P01215}

1500 Pathogen[ POC206] interacts with 1 human partners:{P01215}

1501 [Cluster 251]GO:0006313+P biological\_process [name] transposition, DNA-mediated  
[def] "Any process involved in a type of transpositional recombination which occurs via a DNA intermediate." [GOC

1502 Pathogen[ P03346] interacts with 1 human partners:{Q9H8Y1}

1503 Pathogen[ P14079] interacts with 1 human partners:{Q9H8Y1}

1504 Pathogen[ P03410] interacts with 1 human partners:{Q9H8Y1}

1505 Pathogen[ P14075] interacts with 1 human partners:{Q9H8Y1}

1506 Pathogen[ POC206] interacts with 1 human partners:{Q9H8Y1}

1507 Pathogen[ P03363] interacts with 1 human partners:{Q9H8Y1}

1508 [Cluster 252]GO:0048878+P biological\_process [name] chemical homeostasis [def] "Any biological process involved in the maintenance of an internal steady state of a chemical." [GOC

1509 Pathogen[ P14079] interacts with 1 human partners:{P35475}

1510 [Cluster 253]GO:000962+P biological\_process [name] positive regulation of mitochondrial RNA catabolic process [def] "Any process that activates or increases the frequency, rate or extent of the chemical reactions and pathways involving catabolism in the mitochondrion of RNA transcribed from the mitochondrial genome." [GOC

1511 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8TCS8}

1512 Pathogen[ POC214] interacts with 1 human partners:{Q8TCS8}

1513 Pathogen[ P03346] interacts with 1 human partners:{Q8TCS8}

1514 Pathogen[ Q85601] interacts with 1 human partners:{Q8TCS8}

1515 Pathogen[ P14079] interacts with 1 human partners:{Q8TCS8}

1516 Pathogen[ P03383] interacts with 1 human partners:{Q8TCS8}

1517 Pathogen[ P03410] interacts with 1 human partners:{Q8TCS8}

1518 Pathogen[ P14075] interacts with 1 human partners:{Q8TCS8}

1519 Pathogen[ POC206] interacts with 1 human partners:{Q8TCS8}

1520 [Cluster 254]GO:0021516+P biological\_process [name] dorsal spinal cord development  
[def] "The process whose specific outcome is the progression of the dorsal region of the spinal cord over time, from its formation to the mature structure. The dorsal region of the mature spinal cord contains neurons that process and relay sensory input." [GO\_REF

1521 Pathogen[ Q2Q067] interacts with 2 human partners:{Q33E94;P40426}

1522 Pathogen[ POC214] interacts with 1 human partners:{Q33E94}

1523 Pathogen[ P03346] interacts with 4 human partners:{P40426;A6NJT0;P17481;Q33E94}

1524 Pathogen[ Q85601] interacts with 2 human partners:{Q33E94;P40426}

1525 Pathogen[ P03383] interacts with 1 human partners:{Q33E94}

1526 Pathogen[ P03410] interacts with 2 human partners:{P40426;Q33E94}

1527 Pathogen[ P14075] interacts with 1 human partners:{Q33E94}

1528 Pathogen[ POC206] interacts with 2 human partners:{P40426;Q33E94}

1529 Pathogen[ P03363] interacts with 4 human partners:{P17481;A6NJT0;Q33E94;P40426}

1530 [Cluster 255]GO:0032185+P biological\_process [name] septin cytoskeleton organization  
[def] "A process that is carried out at the cellular level which results in the assembly, arrangement of constituent parts, or disassembly of cytoskeletal structures comprising septin complexes and their associated proteins." [GOC

1531 Pathogen[ P14079] interacts with 1 human partners:{O95876}

1532 Pathogen[ P03410] interacts with 1 human partners:{O95876}

1533 Pathogen[ POC206] interacts with 1 human partners:{O95876}

1534 [Cluster 256]GO:0046782+P biological\_process [name] regulation of viral transcription  
[def] "Any process that modulates the frequency, rate or extent of the transcription of the viral genome." [GOC

1535 Pathogen[ Q2Q067] interacts with 1 human partners:{Q15633}

1536 Pathogen[ POC214] interacts with 1 human partners:{Q15633}

1537 Pathogen[ P03346] interacts with 1 human partners:{Q15633}

1538 Pathogen[ Q85601] interacts with 1 human partners:{Q15633}

1539 Pathogen[ P03383] interacts with 1 human partners:{Q15633}

1540 Pathogen[ P03410] interacts with 1 human partners:{Q15633}

1541 Pathogen[ P14075] interacts with 1 human partners:{Q15633}

1542 Pathogen[ POC206] interacts with 1 human partners:{Q15633}

1543 Pathogen[ P03363] interacts with 1 human partners:{Q15633}

1544 [Cluster 257]GO:0071526+P biological\_process [name] semaphorin-plexin signaling pathway  
[def] "A series of molecular signals generated as a consequence of a semaphorin receptor (composed of a plexin and a neuropilin) binding to a semaphorin ligand." [GOC

1545 Pathogen[ Q2Q067] interacts with 1 human partners:{O14786}

1546 Pathogen[ POC214] interacts with 1 human partners:{O14786}

1547 Pathogen[ P03346] interacts with 1 human partners:{O14786}

1548 Pathogen[ Q85601] interacts with 1 human partners:{O14786}

1549 Pathogen[ P03410] interacts with 1 human partners:{O14786}

1550 Pathogen[ POC206] interacts with 1 human partners:{O14786}

1551 Pathogen[ P03363] interacts with 1 human partners:{O14786}

1552 [Cluster 258]GO:0045580+P biological\_process [name] regulation of T cell differentiation  
[def] "Any process that modulates the frequency, rate or extent of T

cell differentiation." [GOC  
1553 Pathogen[ P14079] interacts with 1 human partners:{Q9BXL7}  
1554 Pathogen[ P03410] interacts with 1 human partners:{Q9BXL7}  
1555 [Cluster 259]GO:0050832+P biological\_process [name] defense response to fungus  
[def] "Reactions triggered in response to the presence of a fungus that act to protect  
the cell or organism." [GOC  
1556 Pathogen[ P0C214] interacts with 1 human partners:{Q14019}  
1557 Pathogen[ P03346] interacts with 1 human partners:{Q14019}  
1558 Pathogen[ P14079] interacts with 4 human partners:{P15515;P15516;P81172;Q14019}  
1559 Pathogen[ P03410] interacts with 4 human partners:{Q14019;P81172;P15515;P15516}  
1560 Pathogen[ P14075] interacts with 1 human partners:{P15515}  
1561 Pathogen[ P0C206] interacts with 2 human partners:{Q14019;P15515}  
1562 Pathogen[ P03363] interacts with 2 human partners:{P15515;Q14019}  
1563 [Cluster 260]GO:0032970+P biological\_process [name] regulation of actin  
filament-based process [def] "Any process that modulates the frequency, rate or extent  
of any cellular process that depends upon or alters the actin cytoskeleton." [GOC  
1564 Pathogen[ P03346] interacts with 1 human partners:{Q8TEW0}  
1565 Pathogen[ P14079] interacts with 2 human partners:{Q8TEW0;Q99439}  
1566 Pathogen[ P03410] interacts with 2 human partners:{Q99439;Q8TEW0}  
1567 Pathogen[ P0C206] interacts with 1 human partners:{Q8TEW0}  
1568 [Cluster 261]GO:0009789+P biological\_process [name] positive regulation of abscisic  
acid mediated signaling pathway [def] "Any process that activates or increases the  
frequency, rate or extent of abscisic acid mediated signal transduction." [GOC  
1569 Pathogen[ P14079] interacts with 1 human partners:{Q9NS86}  
1570 Pathogen[ P03410] interacts with 1 human partners:{Q9NS86}  
1571 Pathogen[ P0C206] interacts with 1 human partners:{Q9NS86}  
1572 [Cluster 262]GO:0006458+P biological\_process [name] 'de novo' protein folding  
[def] "The process of assisting in the folding of a nascent peptide chain into its  
correct tertiary structure." [GOC  
1573 Pathogen[ P0C214] interacts with 1 human partners:{P10809}  
1574 [Cluster 263]GO:0001915+P biological\_process [name] negative regulation of T cell  
mediated cytotoxicity [def] "Any process that stops, prevents, or reduces the rate of  
T cell mediated cytotoxicity." [GOC  
1575 Pathogen[ P14079] interacts with 1 human partners:{P16298}  
1576 [Cluster 264]GO:0030818+P biological\_process [name] negative regulation of cAMP  
biosynthetic process [def] "Any process that stops, prevents, or reduces the  
frequency, rate or extent of the chemical reactions and pathways resulting in the  
formation of the nucleotide cAMP (cyclic AMP, adenosine 3',5'-cyclophosphate)." [GOC  
1577 Pathogen[ P14079] interacts with 1 human partners:{O75781}  
1578 Pathogen[ P03410] interacts with 1 human partners:{O75781}  
1579 [Cluster 265]GO:0042779+P biological\_process [name] tRNA 3'-trailer cleavage [def]  
"Cleavage of the 3'-end of the pre-tRNA as part of the process of generating the mature  
3'-end of the tRNA\_ may involve endonucleolytic or exonucleolytic cleavage, or both."  
[GOC  
1580 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9H777}  
1581 Pathogen[ P0C214] interacts with 1 human partners:{Q9H777}  
1582 Pathogen[ P03346] interacts with 1 human partners:{Q9H777}  
1583 Pathogen[ Q85601] interacts with 1 human partners:{Q9H777}  
1584 Pathogen[ P14079] interacts with 1 human partners:{Q9H777}  
1585 Pathogen[ P03383] interacts with 1 human partners:{Q9H777}  
1586 Pathogen[ P03410] interacts with 1 human partners:{Q9H777}  
1587 Pathogen[ P14075] interacts with 1 human partners:{Q9H777}  
1588 Pathogen[ P0C206] interacts with 1 human partners:{Q9H777}  
1589 [Cluster 266]GO:0010757+P biological\_process [name] negative regulation of  
plasminogen activation [def] "Any process that decreases the rate, frequency or extent  
of plasminogen activation. Plasminogen activation is the process in which plasminogen is  
processed to plasmin." [GOC  
1590 Pathogen[ Q2Q067] interacts with 1 human partners:{P08697}  
1591 Pathogen[ P0C214] interacts with 3 human partners:{P08697;P05121;P07093}  
1592 Pathogen[ Q85601] interacts with 3 human partners:{P08697;P05121;P07093}  
1593 Pathogen[ P03383] interacts with 1 human partners:{P08697}  
1594 Pathogen[ P03410] interacts with 2 human partners:{P05121;P08697}  
1595 Pathogen[ P14075] interacts with 1 human partners:{P08697}  
1596 Pathogen[ P0C206] interacts with 2 human partners:{P05121;P08697}  
1597 [Cluster 267]GO:0071108+P biological\_process [name] protein K48-linked  
deubiquitination [def] "A protein deubiquitination process in which a K48-linked  
ubiquitin chain, i.e. a polymer of ubiquitin formed by linkages between lysine residues  
at position 48 of the ubiquitin monomers, is removed from a protein." [GOC  
1598 Pathogen[ Q2Q067] interacts with 1 human partners:{Q86T82}  
1599 Pathogen[ P0C214] interacts with 1 human partners:{Q92560}  
1600 Pathogen[ P03346] interacts with 4 human partners:{Q92560;Q86T82;Q9UHP3;Q96FW1}  
1601 Pathogen[ Q85601] interacts with 2 human partners:{Q92560;Q86T82}  
1602 Pathogen[ P14079] interacts with 2 human partners:{Q92560;Q96FW1}  
1603 Pathogen[ P03410] interacts with 1 human partners:{Q96FW1}  
1604 Pathogen[ P14075] interacts with 1 human partners:{Q96FW1}  
1605 Pathogen[ P0C206] interacts with 4 human partners:{Q96FW1;Q86T82;Q9UHP3;Q92560}

1606 Pathogen[ P03363] interacts with 4 human partners:{Q9UHP3;Q92560;Q86T82;Q96FW1}

1607 [Cluster 268]GO:0051125+P biological\_process [name] regulation of actin nucleation  
[def] "Any process that modulates the frequency, rate or extent of actin nucleation, the initial step in the formation of an actin filament in which actin monomers combine to form a new filament." [GOC

1608 Pathogen[ P14079] interacts with 1 human partners:{P09327}

1609 [Cluster 269]GO:0021658+P biological\_process [name] rhombomere 3 morphogenesis  
[def] "The process in which the anatomical structure of rhombomere 3 is generated and organized. Rhombomeres are transverse segments of the developing rhombencephalon. Rhombomeres are lineage restricted, express different genes from one another, and adopt different developmental fates. Rhombomeres are numbered in an anterior to posterior order." [GO\_REF

1610 Pathogen[ Q2Q067] interacts with 1 human partners:{O43364}

1611 Pathogen[ P03346] interacts with 1 human partners:{O43364}

1612 Pathogen[ Q85601] interacts with 1 human partners:{O43364}

1613 Pathogen[ P14079] interacts with 1 human partners:{O43364}

1614 Pathogen[ P03410] interacts with 1 human partners:{O43364}

1615 Pathogen[ P0C206] interacts with 1 human partners:{O43364}

1616 Pathogen[ P03363] interacts with 1 human partners:{O43364}

1617 [Cluster 270]GO:2000761+P biological\_process [name] positive regulation of N-terminal peptidyl-lysine acetylation [def] "Any process that activates or increases the frequency, rate or extent of N-terminal peptidyl-lysine acetylation." [GOC

1618 Pathogen[ P03346] interacts with 1 human partners:{Q06945}

1619 [Cluster 271]GO:0010634+P biological\_process [name] positive regulation of epithelial cell migration [def] "Any process that activates or increases the frequency, rate or extent of epithelial cell migration." [GOC

1620 Pathogen[ Q2Q067] interacts with 1 human partners:{P49593}

1621 Pathogen[ P0C214] interacts with 1 human partners:{P49593}

1622 Pathogen[ P03346] interacts with 1 human partners:{P49593}

1623 Pathogen[ Q85601] interacts with 1 human partners:{P49593}

1624 Pathogen[ P14079] interacts with 2 human partners:{P09327;P49593}

1625 Pathogen[ P03410] interacts with 1 human partners:{P49593}

1626 Pathogen[ P0C206] interacts with 1 human partners:{P49593}

1627 [Cluster 272]GO:0035023+P biological\_process [name] regulation of Rho protein signal transduction [def] "Any process that modulates the frequency, rate or extent of Rho protein signal transduction." [GOC

1628 Pathogen[ P03346] interacts with 4 human partners:{Q12802;Q6XZF7;Q5VV41;Q9H8V3}

1629 Pathogen[ P14079] interacts with 5 human partners:{Q6XZF7;P10911;Q12802;Q9H8V3;Q5VV41}

1630 Pathogen[ P03410] interacts with 3 human partners:{Q5VV41;Q6XZF7;Q9H8V3}

1631 Pathogen[ P0C206] interacts with 2 human partners:{Q9H8V3;Q6XZF7}

1632 Pathogen[ P03363] interacts with 3 human partners:{Q5VV41;P10911;Q6XZF7}

1633 [Cluster 273]GO:0046642+P biological\_process [name] negative regulation of alpha-beta T cell proliferation [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of alpha-beta T cell proliferation." [GOC

1634 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96J02}

1635 Pathogen[ P0C214] interacts with 1 human partners:{Q96J02}

1636 Pathogen[ P03346] interacts with 1 human partners:{Q96J02}

1637 Pathogen[ Q85601] interacts with 1 human partners:{Q96J02}

1638 Pathogen[ P14079] interacts with 1 human partners:{Q96J02}

1639 Pathogen[ P0C206] interacts with 1 human partners:{Q96J02}

1640 [Cluster 274]GO:0072240+P biological\_process [name] metanephric DCT cell differentiation [def] "The process in which relatively unspecialized cells acquire specialized structural and/or functional features that characterize the distal convoluted tubule cells of the metanephros as it progresses from its formation to the mature state." [GOC

1641 Pathogen[ P03346] interacts with 1 human partners:{P20264}

1642 Pathogen[ P03363] interacts with 1 human partners:{P20264}

1643 [Cluster 275]GO:2000594+P biological\_process [name] positive regulation of metanephric DCT cell differentiation [def] "Any process that activates or increases the frequency, rate or extent of metanephric DCT cell differentiation." [GOC

1644 Pathogen[ P03346] interacts with 1 human partners:{Q06710}

1645 [Cluster 276]GO:0017085+P biological\_process [name] response to insecticide [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an insecticide stimulus. Insecticides are chemicals used to kill insects." [GOC

1646 Pathogen[ P0C214] interacts with 2 human partners:{P36551;P22830}

1647 Pathogen[ P14079] interacts with 2 human partners:{P22830;P36551}

1648 Pathogen[ P03410] interacts with 2 human partners:{P36551;P22830}

1649 Pathogen[ P0C206] interacts with 2 human partners:{P36551;P22830}

1650 [Cluster 277]GO:0042773+P biological\_process [name] ATP synthesis coupled electron transport [def] "The transfer of electrons through a series of electron donors and acceptors, generating energy that is ultimately used for synthesis of ATP." [ISBN

1651 Pathogen[ P0C214] interacts with 2 human partners:{P28331;O95182}

1652 Pathogen[ P14079] interacts with 2 human partners:{O95182;P03901}

1653 Pathogen[ P03410] interacts with 2 human partners:{P03901;O95182}

1654 Pathogen[ P14075] interacts with 1 human partners:{095182}

1655 Pathogen[ POC206] interacts with 1 human partners:{095182}

1656 [Cluster 278]GO:0060842+P biological\_process [name] arterial endothelial cell differentiation [def] "The process in which a relatively unspecialized endothelial cell acquires specialized features of an arterial endothelial cell, a thin flattened cell that lines the inside surfaces of arteries." [GOC

1657 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9Y5J3}

1658 Pathogen[ POC214] interacts with 1 human partners:{Q9Y5J3}

1659 Pathogen[ P03346] interacts with 1 human partners:{Q9Y5J3}

1660 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y5J3}

1661 Pathogen[ P14079] interacts with 1 human partners:{Q9Y5J3}

1662 Pathogen[ P03410] interacts with 1 human partners:{Q9Y5J3}

1663 Pathogen[ POC206] interacts with 1 human partners:{Q9Y5J3}

1664 Pathogen[ P03363] interacts with 1 human partners:{Q9Y5J3}

1665 [Cluster 279]GO:0007217+P biological\_process [name] tachykinin receptor signaling pathway [def] "The series of molecular signals generated as a consequence of a tachykinin, i.e. a short peptide with the terminal sequence (Phe-X-Gly-Leu-Met-NH<sub>2</sub>), binding to a cell surface receptor." [GOC

1666 Pathogen[ P14079] interacts with 1 human partners:{Q9UHF0}

1667 Pathogen[ P03410] interacts with 1 human partners:{Q9UHF0}

1668 [Cluster 280]GO:0016601+P biological\_process [name] Rac protein signal transduction [def] "A series of molecular signals within the cell that are mediated by a member of the Rac family of proteins switching to a GTP-bound active state." [GOC

1669 Pathogen[ Q2Q067] interacts with 1 human partners:{Q92556}

1670 Pathogen[ POC214] interacts with 1 human partners:{Q92556}

1671 Pathogen[ P03346] interacts with 1 human partners:{Q92556}

1672 Pathogen[ P14079] interacts with 1 human partners:{Q92556}

1673 Pathogen[ P03410] interacts with 1 human partners:{Q92556}

1674 Pathogen[ POC206] interacts with 1 human partners:{Q92556}

1675 Pathogen[ P03363] interacts with 1 human partners:{Q92556}

1676 [Cluster 281]GO:0071872+P biological\_process [name] cellular response to epinephrine stimulus [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an epinephrine stimulus. Epinephrine is a catecholamine that has the formula C<sub>9</sub>H<sub>13</sub>NO<sub>3</sub> it is secreted by the adrenal medulla to act as a hormone, and released by certain neurons to act as a neurotransmitter active in the central nervous system." [CHEBI

1677 Pathogen[ P14079] interacts with 1 human partners:{P10109}

1678 Pathogen[ P03410] interacts with 1 human partners:{P10109}

1679 [Cluster 282]GO:0045161+P biological\_process [name] neuronal ion channel clustering [def] "The process in which voltage-gated ion channels become localized to distinct subcellular domains in the neuron. Specific targeting, clustering, and maintenance of these channels in their respective domains are essential to achieve high conduction velocities of action potential propagation." [PMID

1680 Pathogen[ P03346] interacts with 2 human partners:{Q15700;Q9NRD5}

1681 Pathogen[ P14079] interacts with 1 human partners:{Q15700}

1682 Pathogen[ P03410] interacts with 2 human partners:{Q15700;Q9NRD5}

1683 Pathogen[ POC206] interacts with 2 human partners:{Q15700;Q9NRD5}

1684 Pathogen[ P03363] interacts with 1 human partners:{Q15700}

1685 [Cluster 283]GO:0031503+P biological\_process [name] protein complex localization [def] "A localization process that acts on a protein complex\_ the complex is transported to, or maintained in, a specific location." [GOC

1686 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9UBC3;O15392}

1687 Pathogen[ POC214] interacts with 1 human partners:{O15392}

1688 Pathogen[ P03346] interacts with 2 human partners:{O15392;Q9UBC3}

1689 Pathogen[ Q85601] interacts with 2 human partners:{O15392;Q9UBC3}

1690 Pathogen[ P14079] interacts with 3 human partners:{Q9Y5Y5;O15392;Q9UBC3}

1691 Pathogen[ P03410] interacts with 3 human partners:{O15392;Q9Y5Y5;Q9UBC3}

1692 Pathogen[ POC206] interacts with 2 human partners:{O15392;Q9UBC3}

1693 Pathogen[ P03363] interacts with 1 human partners:{Q9UBC3}

1694 [Cluster 284]GO:0006419+P biological\_process [name] alanyl-tRNA aminoacylation [def] "The process of coupling alanine to alanyl-tRNA, catalyzed by alanyl-tRNA synthetase. In tRNA aminoacylation, the amino acid is first activated by linkage to AMP and then transferred to either the 2'- or the 3'-hydroxyl group of the 3'-adenosine residue of the tRNA." [GOC

1695 Pathogen[ POC214] interacts with 3 human partners:{Q5JTZ9;Q9BTE6;P49588}

1696 Pathogen[ P14079] interacts with 2 human partners:{Q9BTE6;P49588}

1697 Pathogen[ P03383] interacts with 1 human partners:{Q9BTE6}

1698 Pathogen[ P03410] interacts with 2 human partners:{Q9BTE6;P49588}

1699 Pathogen[ P14075] interacts with 1 human partners:{Q9BTE6}

1700 Pathogen[ POC206] interacts with 1 human partners:{Q9BTE6}

1701 Pathogen[ P03363] interacts with 1 human partners:{Q9BTE6}

1702 [Cluster 285]GO:0019240+P biological\_process [name] citrulline biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of citrulline, N<sup>5</sup>-carbamoyl-L-ornithine, an alpha amino acid not found in proteins." [ISBN

1703 Pathogen[ POC214] interacts with 1 human partners:{P00480}

1704 Pathogen[ Q85601] interacts with 1 human partners:{P00480}

1705 Pathogen[ P14079] interacts with 1 human partners:{P00480}

1706 Pathogen[ P03410] interacts with 1 human partners:{P00480}

1707 Pathogen[ POC206] interacts with 1 human partners:{P00480}

1708 [Cluster 286]GO:0043585+P biological\_process [name] nose morphogenesis [def] "The process in which the anatomical structures of the nose are generated and organized. The nose is the specialized structure of the face that serves as the organ of the sense of smell and as part of the respiratory system. Includes the nasi externus (external nose) and cavitas nasi (nasal cavity)." [GOC

1709 Pathogen[ Q2Q067] interacts with 1 human partners:{P12755}

1710 Pathogen[ POC214] interacts with 1 human partners:{P12755}

1711 Pathogen[ Q85601] interacts with 1 human partners:{P12755}

1712 Pathogen[ P14079] interacts with 1 human partners:{P12755}

1713 Pathogen[ P03410] interacts with 1 human partners:{P12755}

1714 Pathogen[ POC206] interacts with 1 human partners:{P12755}

1715 [Cluster 287]GO:0000710+P biological\_process [name] meiotic mismatch repair [def] "A system for the identification and correction of base-base mismatches, small insertion-deletion loops, and regions of heterology that are present in duplex DNA formed with strands from two recombining molecules. Correction of the mismatch can result in non-Mendelian segregation of alleles following meiosis." [GOC

1716 Pathogen[ Q2Q067] interacts with 1 human partners:{Q92889}

1717 Pathogen[ POC214] interacts with 2 human partners:{Q92889;P20585}

1718 Pathogen[ P03346] interacts with 2 human partners:{P20585;Q92889}

1719 Pathogen[ Q85601] interacts with 2 human partners:{Q92889;P20585}

1720 Pathogen[ P14079] interacts with 4 human partners:{O43196;P20585;Q92889;P52701}

1721 Pathogen[ P03410] interacts with 4 human partners:{P20585;Q92889;P52701;O43196}

1722 Pathogen[ POC206] interacts with 3 human partners:{P52701;Q92889;P20585}

1723 Pathogen[ P03363] interacts with 2 human partners:{Q92889;P20585}

1724 [Cluster 288]GO:0032074+P biological\_process [name] negative regulation of nuclease activity [def] "Any process that stops or reduces the rate of nuclease activity, the hydrolysis of ester linkages within nucleic acids." [GOC

1725 Pathogen[ Q85601] interacts with 1 human partners:{Q96FI4}

1726 Pathogen[ P14079] interacts with 1 human partners:{Q96FI4}

1727 Pathogen[ P03410] interacts with 1 human partners:{Q96FI4}

1728 Pathogen[ POC206] interacts with 1 human partners:{Q96FI4}

1729 Pathogen[ P03363] interacts with 1 human partners:{Q96FI4}

1730 [Cluster 289]GO:0036138+P

1731 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NWT6}

1732 Pathogen[ POC214] interacts with 1 human partners:{Q9NWT6}

1733 Pathogen[ P03346] interacts with 1 human partners:{Q9NWT6}

1734 Pathogen[ Q85601] interacts with 1 human partners:{Q9NWT6}

1735 Pathogen[ P14079] interacts with 1 human partners:{Q9NWT6}

1736 Pathogen[ P03383] interacts with 1 human partners:{Q9NWT6}

1737 Pathogen[ P03410] interacts with 1 human partners:{Q9NWT6}

1738 Pathogen[ P14075] interacts with 1 human partners:{Q9NWT6}

1739 Pathogen[ POC206] interacts with 1 human partners:{Q9NWT6}

1740 [Cluster 290]GO:0060166+P biological\_process [name] olfactory pit development [def] "The biological process whose specific outcome is the progression of the olfactory pit from an initial condition to its mature state. This process begins with the formation of the olfactory pit, which is an indentation of the olfactory placode, and ends when the pits hollows out to form the nasopharynx." [GOC

1741 Pathogen[ P03346] interacts with 1 human partners:{P56178}

1742 [Cluster 291]GO:0018343+P biological\_process [name] protein farnesylation [def] "The covalent attachment of a farnesyl group to a protein." [GOC

1743 Pathogen[ Q2Q067] interacts with 2 human partners:{P49356;P49354}

1744 Pathogen[ POC214] interacts with 2 human partners:{P49354;P49356}

1745 Pathogen[ P03346] interacts with 2 human partners:{P49354;P49356}

1746 Pathogen[ Q85601] interacts with 2 human partners:{P49354;P49356}

1747 Pathogen[ P14079] interacts with 2 human partners:{P49354;P49356}

1748 Pathogen[ P03410] interacts with 2 human partners:{P49354;P49356}

1749 Pathogen[ POC206] interacts with 2 human partners:{P49354;P49356}

1750 Pathogen[ P03363] interacts with 2 human partners:{P49354;Q9NZN9}

1751 [Cluster 292]GO:0090042+P biological\_process [name] tubulin deacetylation [def] "The removal of an acetyl group from tubulin. An acetyl group is CH3CO-, derived from acetic [ethanoic] acid." [GOC

1752 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8IXJ6}

1753 Pathogen[ POC214] interacts with 1 human partners:{Q8IXJ6}

1754 Pathogen[ P03346] interacts with 1 human partners:{Q8IXJ6}

1755 Pathogen[ Q85601] interacts with 1 human partners:{Q8IXJ6}

1756 Pathogen[ P14079] interacts with 1 human partners:{Q8IXJ6}

1757 Pathogen[ P03410] interacts with 1 human partners:{Q8IXJ6}

1758 Pathogen[ POC206] interacts with 1 human partners:{Q8IXJ6}

1759 [Cluster 293]GO:0019835+P biological\_process [name] cytolysis [def] "The rupture of cell membranes and the loss of cytoplasm." [SP\_KW

1760 Pathogen[ P03346] interacts with 1 human partners:{P10144}

1761 Pathogen[ Q85601] interacts with 1 human partners:{P10144}

1762 Pathogen[ P14079] interacts with 1 human partners:{P10144}

1763 Pathogen[ P03410] interacts with 1 human partners:{P10144}

1764 Pathogen[ P0C206] interacts with 1 human partners:{P10144}

1765 Pathogen[ P03363] interacts with 1 human partners:{P10144}

1766 [Cluster 294]GO:0034263+P biological\_process [name] autophagy in response to ER overload [def] "The process in which cells digest parts of their own cytoplasm in response to the accumulation of misfolded proteins in the endoplasmic reticulum." [GOC

1767 Pathogen[ P14079] interacts with 1 human partners:{Q9H0Y0}

1768 Pathogen[ P03410] interacts with 1 human partners:{Q9H0Y0}

1769 [Cluster 295]GO:0021520+P biological\_process [name] spinal cord motor neuron cell fate specification [def] "The process in which a cell becomes capable of differentiating autonomously into a motor neuron in an environment that is neutral with respect to the developmental pathway." [GO\_REF

1770 Pathogen[ P03346] interacts with 3 human partners:{P50219;P28358;Q9UBR4}

1771 Pathogen[ P0C206] interacts with 1 human partners:{Q9UBR4}

1772 Pathogen[ P03363] interacts with 2 human partners:{P28358;P50219}

1773 [Cluster 296]GO:0051930+P biological\_process [name] regulation of sensory perception of pain [def] "Any process that modulates the frequency, rate or extent of the sensory perception of pain, the series of events required for an organism to receive a painful stimulus, convert it to a molecular signal, and recognize and characterize the signal." [GOC

1774 Pathogen[ P03410] interacts with 1 human partners:{Q99935}

1775 [Cluster 297]GO:0035927+P biological\_process [name] RNA import into mitochondrion [def] "The directed movement of RNA from the cytoplasm into a mitochondrion." [GOC

1776 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8TCS8}

1777 Pathogen[ P0C214] interacts with 1 human partners:{Q8TCS8}

1778 Pathogen[ P03346] interacts with 1 human partners:{Q8TCS8}

1779 Pathogen[ Q85601] interacts with 1 human partners:{Q8TCS8}

1780 Pathogen[ P14079] interacts with 1 human partners:{Q8TCS8}

1781 Pathogen[ P03383] interacts with 1 human partners:{Q8TCS8}

1782 Pathogen[ P03410] interacts with 1 human partners:{Q8TCS8}

1783 Pathogen[ P14075] interacts with 1 human partners:{Q8TCS8}

1784 Pathogen[ P0C206] interacts with 1 human partners:{Q8TCS8}

1785 [Cluster 298]GO:0044321+P biological\_process [name] response to leptin stimulus [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a leptin stimulus. Leptin is a hormone manufactured primarily in the adipocytes of white adipose tissue, and the level of circulating leptin is directly proportional to the total amount of fat in the body. It plays a key role in regulating energy intake and energy expenditure, including appetite and metabolism]." [GOC

1786 Pathogen[ P14079] interacts with 1 human partners:{P10109}

1787 Pathogen[ P03410] interacts with 1 human partners:{P10109}

1788 [Cluster 299]GO:0070741+P biological\_process [name] response to interleukin-6 [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an interleukin-6 stimulus." [GOC

1789 Pathogen[ Q2Q067] interacts with 2 human partners:{P05062;Q99966}

1790 Pathogen[ P0C214] interacts with 2 human partners:{P05062;Q99966}

1791 Pathogen[ P03346] interacts with 2 human partners:{Q99966;P05062}

1792 Pathogen[ Q85601] interacts with 2 human partners:{Q99966;P05062}

1793 Pathogen[ P14079] interacts with 2 human partners:{Q99966;P11686}

1794 Pathogen[ P03410] interacts with 3 human partners:{P05062;P11686;Q99966}

1795 Pathogen[ P0C206] interacts with 2 human partners:{P05062;Q99966}

1796 [Cluster 300]GO:0045023+P biological\_process [name] G0 to G1 transition [def] "The transition from the G0 quiescent state to the G1 phase. Under certain conditions, cells exit the cell cycle during G1 and remain in the G0 state as nongrowing, non-dividing (quiescent) cells. Appropriate stimulation of such cells induces them to return to G1 and resume growth and division. The G0 to G1 transition is accompanied by many changes in the program of gene expression." [ISBN

1797 Pathogen[ P03346] interacts with 1 human partners:{O15151}

1798 Pathogen[ Q85601] interacts with 1 human partners:{O15151}

1799 Pathogen[ P14079] interacts with 1 human partners:{O15151}

1800 Pathogen[ P03410] interacts with 1 human partners:{O15151}

1801 Pathogen[ P0C206] interacts with 1 human partners:{O15151}

1802 Pathogen[ P03363] interacts with 1 human partners:{O15151}

1803 [Cluster 301]GO:0030222+P biological\_process [name] eosinophil differentiation [def] "The process in which a relatively unspecialized myeloid precursor cell acquires the specializes features of an eosinophil." [GOC

1804 Pathogen[ Q2Q067] interacts with 1 human partners:{P15976}

1805 Pathogen[ P03346] interacts with 1 human partners:{P15976}

1806 Pathogen[ Q85601] interacts with 1 human partners:{P15976}

1807 Pathogen[ P14079] interacts with 1 human partners:{P15976}

1808 Pathogen[ P03410] interacts with 1 human partners:{P15976}

1809 Pathogen[ P0C206] interacts with 1 human partners:{P15976}

1810 [Cluster 302]GO:0033993+P biological\_process [name] response to lipid [def] "Any process that results in a change in state or activity of a cell or an organism (in terms



of movement, secretion, enzyme production, gene expression, etc.) as a result of a lipid stimulus." [GOC

1811 Pathogen[ Q2Q067] interacts with 3 human partners:{075351;P36956;P12004}

1812 Pathogen[ P0C214] interacts with 1 human partners:{075351}

1813 Pathogen[ P03346] interacts with 4 human partners:{P12004;P36956;Q12772;075351}

1814 Pathogen[ Q85601] interacts with 4 human partners:{Q12772;075351;P36956;P12004}

1815 Pathogen[ P14079] interacts with 5 human partners:{Q9Y5U4;Q12772;P12004;075351;P36956}

1816 Pathogen[ P03410] interacts with 5 human partners:{P36956;075351;Q9Y5U4;Q12772;P12004}

1817 Pathogen[ P0C206] interacts with 4 human partners:{P36956;075351;Q12772;P12004}

1818 Pathogen[ P03363] interacts with 1 human partners:{075351}

1819 [Cluster 303]GO:0060263+P biological\_process [name] regulation of respiratory burst [def] "Any process that modulates the rate frequency or extent of a phase of elevated metabolic activity, during which oxygen consumption increases\_ this leads to the production, by an NADH dependent system, of hydrogen peroxide (H2O2), superoxide anions and hydroxyl radicals." [GOC

1820 Pathogen[ Q2Q067] interacts with 1 human partners:{P63000}

1821 Pathogen[ P0C214] interacts with 1 human partners:{P63000}

1822 Pathogen[ P03346] interacts with 2 human partners:{Q86UR1;P63000}

1823 Pathogen[ Q85601] interacts with 1 human partners:{P63000}

1824 Pathogen[ P03383] interacts with 1 human partners:{P63000}

1825 Pathogen[ P03410] interacts with 2 human partners:{P63000;Q86UR1}

1826 Pathogen[ P14075] interacts with 1 human partners:{P63000}

1827 Pathogen[ P0C206] interacts with 1 human partners:{P63000}

1828 Pathogen[ P03363] interacts with 2 human partners:{Q86UR1;P63000}

1829 [Cluster 304]GO:1900245+P

1830 Pathogen[ P14079] interacts with 1 human partners:{Q96C10}

1831 Pathogen[ P03410] interacts with 1 human partners:{Q96C10}

1832 Pathogen[ P0C206] interacts with 1 human partners:{Q96C10}

1833 Pathogen[ P03363] interacts with 1 human partners:{Q8IY21}

1834 [Cluster 305]GO:0032319+P biological\_process [name] regulation of Rho GTPase activity [def] "Any process that modulates the activity of a GTPase of the Rho family." [GOC

1835 Pathogen[ Q2Q067] interacts with 2 human partners:{P46108;P41182}

1836 Pathogen[ P0C214] interacts with 2 human partners:{P41182;P46108}

1837 Pathogen[ P03346] interacts with 2 human partners:{P46108;P41182}

1838 Pathogen[ Q85601] interacts with 2 human partners:{P46108;P41182}

1839 Pathogen[ P14079] interacts with 2 human partners:{P41182;P46108}

1840 Pathogen[ P03410] interacts with 2 human partners:{P41182;P46108}

1841 Pathogen[ P0C206] interacts with 2 human partners:{P41182;P46108}

1842 Pathogen[ P03363] interacts with 1 human partners:{P46108}

1843 [Cluster 306]GO:0070365+P biological\_process [name] hepatocyte differentiation [def] "The process in which a relatively unspecialized cell acquires the specialized features of a hepatocyte. A hepatocyte is specialized epithelial cell that is organized into interconnected plates called lobules, and is the main structural component of the liver." [CL

1844 Pathogen[ P14079] interacts with 1 human partners:{P04083}

1845 [Cluster 307]GO:0060019+P biological\_process [name] radial glial cell differentiation [def] "The process in which neuroepithelial cells of the neural tube give rise to radial glial cells, specialized bipotential progenitors cells of the brain. Differentiation includes the processes involved in commitment of a cell to a specific fate." [GOC

1846 Pathogen[ Q2Q067] interacts with 1 human partners:{P40763}

1847 Pathogen[ P0C214] interacts with 1 human partners:{P40763}

1848 Pathogen[ P03346] interacts with 1 human partners:{P40763}

1849 Pathogen[ Q85601] interacts with 1 human partners:{P40763}

1850 Pathogen[ P03410] interacts with 1 human partners:{P40763}

1851 Pathogen[ P0C206] interacts with 1 human partners:{P40763}

1852 [Cluster 308]GO:0007416+P biological\_process [name] synapse assembly [def] "The aggregation, arrangement and bonding together of a set of components to form a synapse." [GOC

1853 Pathogen[ P0C214] interacts with 1 human partners:{Q9UM54}

1854 Pathogen[ Q85601] interacts with 1 human partners:{Q9UM54}

1855 Pathogen[ P14079] interacts with 1 human partners:{Q9UM54}

1856 Pathogen[ P03410] interacts with 1 human partners:{Q9UM54}

1857 Pathogen[ P0C206] interacts with 1 human partners:{Q9UM54}

1858 [Cluster 309]GO:0046068+P biological\_process [name] cGMP metabolic process [def] "The chemical reactions and pathways involving cyclic GMP, guanosine 3',5'-phosphate." [GOC

1859 Pathogen[ P03346] interacts with 1 human partners:{P35398}

1860 Pathogen[ P14079] interacts with 1 human partners:{P35398}

1861 Pathogen[ P0C206] interacts with 1 human partners:{P35398}

1862 Pathogen[ P03363] interacts with 1 human partners:{P35398}

1863 [Cluster 310]GO:0009088+P biological\_process [name] threonine biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of threonine (2-amino-3-hydroxybutyric acid), a polar, uncharged, essential amino acid found in peptide linkage in proteins." [GOC

1864 Pathogen[ P14079] interacts with 1 human partners:{Q8IYQ7}

1865 [Cluster 311]GO:0048617+P biological\_process [name] embryonic foregut morphogenesis  
[def] "The process in which the anatomical structures of the foregut are generated and organized, during the embryonic phase." [GOC

1866 Pathogen[ Q2Q067] interacts with 2 human partners:{P84022;Q15796}

1867 Pathogen[ P0C214] interacts with 2 human partners:{P84022;Q15796}

1868 Pathogen[ P03346] interacts with 2 human partners:{Q15796;P84022}

1869 Pathogen[ Q85601] interacts with 2 human partners:{P84022;Q15796}

1870 Pathogen[ P03383] interacts with 2 human partners:{P84022;Q15796}

1871 Pathogen[ P03410] interacts with 2 human partners:{P84022;Q15796}

1872 Pathogen[ P14075] interacts with 2 human partners:{Q15796;P84022}

1873 Pathogen[ P0C206] interacts with 2 human partners:{P84022;Q15796}

1874 Pathogen[ P03363] interacts with 2 human partners:{Q15796;P84022}

1875 [Cluster 312]GO:0035999+P biological\_process [name] tetrahydrofolate interconversion  
[def] "The chemical reactions and pathways by which one-carbon (C1) units are transferred between tetrahydrofolate molecules, to synthesise other tetrahydrofolate molecules." [GOC

1876 Pathogen[ Q2Q067] interacts with 1 human partners:{P34896}

1877 Pathogen[ P0C214] interacts with 4 human partners:{P42898;P34897;P34896;P11586}

1878 Pathogen[ Q85601] interacts with 1 human partners:{P34896}

1879 Pathogen[ P14079] interacts with 4 human partners:{O95954;P34897;P34896;P42898}

1880 Pathogen[ P03383] interacts with 1 human partners:{P34896}

1881 Pathogen[ P03410] interacts with 4 human partners:{O95954;P42898;P34897;P34896}

1882 Pathogen[ P14075] interacts with 1 human partners:{P34896}

1883 Pathogen[ P0C206] interacts with 3 human partners:{P34897;O95954;P34896}

1884 [Cluster 313]GO:0032736+P biological\_process [name] positive regulation of interleukin-13 production  
[def] "Any process that activates or increases the frequency, rate, or extent of interleukin-13 production." [GOC

1885 Pathogen[ P14079] interacts with 1 human partners:{O95760}

1886 Pathogen[ P03410] interacts with 1 human partners:{O95760}

1887 [Cluster 314]GO:0010720+P biological\_process [name] positive regulation of cell development  
[def] "Any process that increases the rate, frequency or extent of the progression of the cell over time, from its formation to the mature structure. Cell development does not include the steps involved in committing a cell to a specific fate." [GOC

1888 Pathogen[ P03346] interacts with 1 human partners:{P31270}

1889 [Cluster 315]GO:0060836+P biological\_process [name] lymphatic endothelial cell differentiation  
[def] "The process in which a venous blood vessel endothelial cell acquires specialized features of a lymphatic vessel endothelial cell, a thin flattened cell that lines the inside surfaces of lymph vessels." [GOC

1890 Pathogen[ P03346] interacts with 1 human partners:{P35713}

1891 [Cluster 316]GO:0021849+P biological\_process [name] neuroblast division in subventricular zone  
[def] "The division of neuroblasts in the subventricular zone of the forebrain. The interneuron precursors that these cells give rise to include adult olfactory bulb interneurons and migrate tangentially." [GO\_REF

1892 Pathogen[ P03346] interacts with 1 human partners:{Q9Y6R0}

1893 Pathogen[ P03363] interacts with 1 human partners:{Q9Y6R0}

1894 [Cluster 317]GO:0001306+P biological\_process [name] age-dependent response to oxidative stress  
[def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of oxidative stress, a state often resulting from exposure to high levels of reactive oxygen species, where the change varies according to the age of the cell or organism." [GOC

1895 Pathogen[ P0C214] interacts with 1 human partners:{Q99807}

1896 Pathogen[ P14079] interacts with 1 human partners:{Q99807}

1897 Pathogen[ P03410] interacts with 2 human partners:{Q9UBY8;Q99807}

1898 Pathogen[ P0C206] interacts with 1 human partners:{Q99807}

1899 [Cluster 318]GO:0046884+P biological\_process [name] follicle-stimulating hormone secretion  
[def] "The regulated release of follicle-stimulating hormone, a gonadotropic glycoprotein hormone secreted by the anterior pituitary." [ISBN

1900 Pathogen[ P14079] interacts with 1 human partners:{P01215}

1901 Pathogen[ P03383] interacts with 1 human partners:{P01215}

1902 Pathogen[ P03410] interacts with 1 human partners:{P01215}

1903 Pathogen[ P14075] interacts with 1 human partners:{P01215}

1904 Pathogen[ P0C206] interacts with 1 human partners:{P01215}

1905 [Cluster 319]GO:2001243+P biological\_process [name] negative regulation of intrinsic apoptotic signaling pathway  
[def] "Any process that stops, prevents or reduces the frequency, rate or extent of intrinsic apoptotic signaling pathway." [GOC

1906 Pathogen[ P14079] interacts with 1 human partners:{Q9H300}

1907 [Cluster 320]GO:0006835+P biological\_process [name] dicarboxylic acid transport  
[def] "The directed movement of dicarboxylic acids into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore." [GOC

1908 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UBX3}

1909 Pathogen[ P0C214] interacts with 1 human partners:{Q9UBX3}

1910 Pathogen[ P03346] interacts with 1 human partners:{Q9UBX3}

1911 Pathogen[ Q85601] interacts with 1 human partners:{Q9UBX3}

1912 Pathogen[ P03410] interacts with 1 human partners:{Q9UBX3}

1913 Pathogen[ P0C206] interacts with 1 human partners:{Q9UBX3}

1914 [Cluster 321]GO:0051583+P biological\_process [name] dopamine uptake [def] "The directed movement of dopamine into a cell, typically presynaptic neurons or glial cells. Dopamine is a catecholamine neurotransmitter and a metabolic precursor of noradrenaline and adrenaline." [GOC

1915 Pathogen[ Q2Q067] interacts with 1 human partners:{Q99497}

1916 Pathogen[ P0C214] interacts with 1 human partners:{Q99497}

1917 Pathogen[ P03346] interacts with 1 human partners:{Q99497}

1918 Pathogen[ Q85601] interacts with 1 human partners:{Q99497}

1919 Pathogen[ P14079] interacts with 1 human partners:{Q99497}

1920 Pathogen[ P03410] interacts with 1 human partners:{Q99497}

1921 Pathogen[ P0C206] interacts with 1 human partners:{Q99497}

1922 [Cluster 322]GO:0001554+P biological\_process [name] luteolysis [def] "The lysis or structural demise of the corpus luteum. During normal luteolysis, two closely related events occur. First, there is loss of the capacity to synthesize and secrete progesterone (functional luteolysis) followed by loss of the cells that comprise the corpus luteum (structural luteolysis). Preventing luteolysis is crucial to maintain pregnancy." [http

1923 Pathogen[ Q2Q067] interacts with 1 human partners:{P42575}

1924 Pathogen[ P0C214] interacts with 1 human partners:{P42575}

1925 Pathogen[ P03346] interacts with 1 human partners:{P42575}

1926 Pathogen[ Q85601] interacts with 1 human partners:{P42575}

1927 Pathogen[ P14079] interacts with 1 human partners:{P42575}

1928 Pathogen[ P03410] interacts with 1 human partners:{P42575}

1929 Pathogen[ P0C206] interacts with 1 human partners:{P42575}

1930 [Cluster 323]GO:0071035+P biological\_process [name] nuclear polyadenylation-dependent rRNA catabolic process [def] "The chemical reactions and pathways occurring in the nucleus and resulting in the breakdown of a ribosomal RNA (rRNA) molecule, including RNA fragments released as part of processing the primary transcript into multiple mature rRNA species, initiated by the enzymatic addition of a sequence of adenylyl residues (polyadenylation) at the 3' end the target rRNA." [GOC

1931 Pathogen[ Q2Q067] interacts with 1 human partners:{Q06265}

1932 Pathogen[ P0C214] interacts with 1 human partners:{Q06265}

1933 Pathogen[ P03346] interacts with 1 human partners:{Q06265}

1934 Pathogen[ Q85601] interacts with 1 human partners:{Q06265}

1935 Pathogen[ P14079] interacts with 1 human partners:{Q06265}

1936 Pathogen[ P03383] interacts with 1 human partners:{Q06265}

1937 Pathogen[ P03410] interacts with 1 human partners:{Q06265}

1938 Pathogen[ P14075] interacts with 1 human partners:{Q06265}

1939 Pathogen[ P0C206] interacts with 1 human partners:{Q06265}

1940 [Cluster 324]GO:0030264+P biological\_process [name] nuclear fragmentation involved in apoptotic nuclear change [def] "The breakdown of the nucleus into small membrane-bounded compartments, or blebs, each of which contain compacted DNA." [GOC

1941 Pathogen[ P0C214] interacts with 1 human partners:{P42574}

1942 Pathogen[ P03346] interacts with 1 human partners:{P42574}

1943 Pathogen[ P0C206] interacts with 1 human partners:{P42574}

1944 [Cluster 325]GO:0010638+P biological\_process [name] positive regulation of organelle organization [def] "Any process that increases the frequency, rate or extent of a process involved in the formation, arrangement of constituent parts, or disassembly of an organelle." [GOC

1945 Pathogen[ P0C214] interacts with 1 human partners:{P49257}

1946 Pathogen[ P03346] interacts with 2 human partners:{P49257;Q9BVK6}

1947 Pathogen[ Q85601] interacts with 1 human partners:{P49257}

1948 Pathogen[ P14079] interacts with 3 human partners:{P49257;Q9BVK6;O15260}

1949 Pathogen[ P03410] interacts with 3 human partners:{P49257;Q9BVK6;O15260}

1950 Pathogen[ P0C206] interacts with 3 human partners:{Q9BVK6;P49257;O15260}

1951 [Cluster 326]GO:0018272+P biological\_process [name] protein-pyridoxal-5-phosphate linkage via peptidyl-N6-pyridoxal phosphate-L-lysine [def] "The modification of peptidyl-lysine to form N6-pyridoxal phosphate-L-lysine." [RESID

1952 Pathogen[ Q2Q067] interacts with 1 human partners:{P32929}

1953 Pathogen[ P0C214] interacts with 1 human partners:{P32929}

1954 Pathogen[ P03346] interacts with 1 human partners:{P32929}

1955 Pathogen[ Q85601] interacts with 1 human partners:{P32929}

1956 Pathogen[ P14079] interacts with 1 human partners:{P32929}

1957 Pathogen[ P03410] interacts with 1 human partners:{P32929}

1958 Pathogen[ P0C206] interacts with 1 human partners:{P32929}

1959 [Cluster 327]GO:0003283+P biological\_process [name] atrial septum development [def] "The progression of the atrial septum over time, from its initial formation to the mature structure." [GOC

1960 Pathogen[ P03346] interacts with 1 human partners:{Q99593}

1961 [Cluster 328]GO:0070121+P biological\_process [name] Kupffer's vesicle development [def] "The progression of the Kupffer's vesicle over time from its initial formation until its mature state. The Kupffer's vesicle is a small but distinctive epithelial sac containing fluid, located midventrally posterior to the yolk cell or its extension, and transiently present during most of the segmentation period." [GOC

1962 Pathogen[ P03346] interacts with 1 human partners:{Q8N157}

1963 Pathogen[ P14079] interacts with 1 human partners:{Q8N157}

1964 Pathogen[ P03410] interacts with 1 human partners:{Q8N157}

1965 Pathogen[ P0C206] interacts with 1 human partners:{Q8N157}

1966 Pathogen[ P03363] interacts with 1 human partners:{Q8N157}

1967 [Cluster 329]GO:0006526+P biological\_process [name] arginine biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of arginine, 2-amino-5-(carbamimidamido)pentanoic acid." [CHEBI

1968 Pathogen[ P0C214] interacts with 3 human partners:{P00480;P04424;Q8N159}

1969 Pathogen[ Q85601] interacts with 1 human partners:{P00480}

1970 Pathogen[ P14079] interacts with 3 human partners:{Q8N159;P00480;P04424}

1971 Pathogen[ P03383] interacts with 1 human partners:{Q8N159}

1972 Pathogen[ P03410] interacts with 3 human partners:{Q8N159;P04424;P00480}

1973 Pathogen[ P14075] interacts with 1 human partners:{Q8N159}

1974 Pathogen[ P0C206] interacts with 2 human partners:{Q8N159;P00480}

1975 [Cluster 330]GO:0043064+P biological\_process [name] flagellum organization [def] "A process that is carried out at the cellular level which results in the assembly, arrangement of constituent parts, or disassembly of a flagellum, a long thin projection from a cell, used in movement." [GOC

1976 Pathogen[ P14079] interacts with 1 human partners:{O95922}

1977 Pathogen[ P03410] interacts with 1 human partners:{O95922}

1978 Pathogen[ P0C206] interacts with 1 human partners:{O95922}

1979 Pathogen[ P03363] interacts with 1 human partners:{O95922}

1980 [Cluster 331]GO:0061462+P

1981 Pathogen[ Q2Q067] interacts with 1 human partners:{O43504}

1982 Pathogen[ P0C214] interacts with 1 human partners:{O43504}

1983 Pathogen[ P03346] interacts with 1 human partners:{O43504}

1984 Pathogen[ P14079] interacts with 2 human partners:{Q0VGL1;O43504}

1985 Pathogen[ P03383] interacts with 1 human partners:{O43504}

1986 Pathogen[ P03410] interacts with 2 human partners:{O43504;Q0VGL1}

1987 Pathogen[ P14075] interacts with 1 human partners:{O43504}

1988 Pathogen[ P0C206] interacts with 1 human partners:{O43504}

1989 Pathogen[ P03363] interacts with 1 human partners:{O43504}

1990 [Cluster 332]GO:0019935+P biological\_process [name] cyclic-nucleotide-mediated signaling [def] "A series of molecular signals in which a cell uses a cyclic nucleotide to convert an extracellular signal into a response." [GOC

1991 Pathogen[ P14079] interacts with 1 human partners:{Q9NZJ9}

1992 Pathogen[ P03410] interacts with 1 human partners:{Q9NZJ9}

1993 [Cluster 333]GO:0007113+P biological\_process [name] endomitotic cell cycle [def] "A mitotic cell cycle in which chromosomes are replicated and sister chromatids separate, but spindle formation, nuclear membrane breakdown and nuclear division do not occur, resulting in an increased number of chromosomes in the cell." [GOC

1994 Pathogen[ P03346] interacts with 1 human partners:{Q99828}

1995 Pathogen[ P14079] interacts with 1 human partners:{Q99828}

1996 Pathogen[ P03410] interacts with 1 human partners:{Q99828}

1997 Pathogen[ P0C206] interacts with 1 human partners:{Q99828}

1998 Pathogen[ P03363] interacts with 1 human partners:{Q99828}

1999 [Cluster 334]GO:0046208+P biological\_process [name] spermine catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of spermine, a polybasic amine found in human sperm, in ribosomes and in some viruses and involved in nucleic acid packaging." [CHEBI

2000 Pathogen[ P0C214] interacts with 1 human partners:{Q9NWM0}

2001 [Cluster 335]GO:0030259+P biological\_process [name] lipid glycosylation [def] "Covalent attachment of a glycosyl residue to a lipid molecule." [GOC

2002 Pathogen[ P03410] interacts with 1 human partners:{Q8NHYO}

2003 [Cluster 336]GO:0060764+P biological\_process [name] cell-cell signaling involved in mammary gland development [def] "Any process that mediates the transfer of information from one cell to another and contributes to the progression of the mammary gland, from its initial state to the mature structure." [GOC

2004 Pathogen[ Q2Q067] interacts with 1 human partners:{P20719}

2005 Pathogen[ P03346] interacts with 1 human partners:{P20719}

2006 Pathogen[ P0C206] interacts with 1 human partners:{P20719}

2007 Pathogen[ P03363] interacts with 1 human partners:{P20719}

2008 [Cluster 337]GO:0070126+P biological\_process [name] mitochondrial translational termination [def] "The process resulting in the release of a polypeptide chain from the ribosome in a mitochondrion, usually in response to a termination codon (note that mitochondria use variants of the universal genetic code that differ between different taxa)." [GOC

2009 Pathogen[ P0C214] interacts with 1 human partners:{Q14197}

2010 Pathogen[ P14079] interacts with 1 human partners:{Q14197}

2011 Pathogen[ P03410] interacts with 1 human partners:{Q14197}

2012 Pathogen[ P0C206] interacts with 1 human partners:{Q14197}

2013 [Cluster 338]GO:0002520+P biological\_process [name] immune system development [def] "The process whose specific outcome is the progression of an organismal system whose objective is to provide calibrated responses by an organism to a potential internal or invasive threat, over time, from its formation to the mature structure. A

system is a regularly interacting or interdependent group of organs or tissues that work together to carry out a given biological process." [GOC

2014 Pathogen[ Q2Q067] interacts with 1 human partners:{P84022}

2015 Pathogen[ P0C214] interacts with 1 human partners:{P84022}

2016 Pathogen[ P03346] interacts with 1 human partners:{P84022}

2017 Pathogen[ Q85601] interacts with 1 human partners:{P84022}

2018 Pathogen[ P03383] interacts with 1 human partners:{P84022}

2019 Pathogen[ P03410] interacts with 1 human partners:{P84022}

2020 Pathogen[ P14075] interacts with 1 human partners:{P84022}

2021 Pathogen[ P0C206] interacts with 1 human partners:{P84022}

2022 Pathogen[ P03363] interacts with 1 human partners:{P84022}

2023 [Cluster 339]GO:0060383+P biological\_process [name] positive regulation of DNA strand elongation [def] "Any process that increases the rate, frequency or extent of DNA strand elongation. DNA strand elongation is the DNA metabolic process in which a DNA strand is synthesized by adding nucleotides to the 3' end of an existing DNA stand." [GOC

2024 Pathogen[ P03346] interacts with 1 human partners:{Q9NUX5}

2025 Pathogen[ P14079] interacts with 1 human partners:{Q9NUX5}

2026 Pathogen[ P03410] interacts with 1 human partners:{Q9NUX5}

2027 Pathogen[ P0C206] interacts with 1 human partners:{Q9NUX5}

2028 Pathogen[ P03363] interacts with 1 human partners:{Q9NUX5}

2029 [Cluster 340]GO:0043988+P biological\_process [name] histone H3-S28 phosphorylation [def] "The modification of histone H3 by the addition of an phosphate group to a serine residue at position 28 of the histone." [GOC

2030 Pathogen[ Q2Q067] interacts with 1 human partners:{O75582}

2031 Pathogen[ P0C214] interacts with 1 human partners:{O75582}

2032 Pathogen[ P03346] interacts with 1 human partners:{O75582}

2033 Pathogen[ Q85601] interacts with 1 human partners:{O75582}

2034 Pathogen[ P14079] interacts with 1 human partners:{O75582}

2035 Pathogen[ P03383] interacts with 1 human partners:{O75582}

2036 Pathogen[ P03410] interacts with 1 human partners:{O75582}

2037 Pathogen[ P14075] interacts with 1 human partners:{O75582}

2038 Pathogen[ P0C206] interacts with 1 human partners:{O75582}

2039 [Cluster 341]GO:0051902+P biological\_process [name] negative regulation of mitochondrial depolarization [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the change in the membrane potential of the mitochondria from negative to positive." [GOC

2040 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96JZ2}

2041 Pathogen[ P0C214] interacts with 1 human partners:{Q96JZ2}

2042 Pathogen[ P03346] interacts with 1 human partners:{Q96JZ2}

2043 Pathogen[ Q85601] interacts with 1 human partners:{Q96JZ2}

2044 Pathogen[ P14079] interacts with 2 human partners:{P09912;Q96JZ2}

2045 Pathogen[ P03410] interacts with 2 human partners:{P09912;Q96JZ2}

2046 Pathogen[ P0C206] interacts with 1 human partners:{Q96JZ2}

2047 Pathogen[ P03363] interacts with 1 human partners:{Q96JZ2}

2048 [Cluster 342]GO:0009648+P biological\_process [name] photoperiodism [def] "Any process that results in a change in state or activity of an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of detection of, or exposure to, a period of light or dark of a given length, measured relative to a particular duration known as the 'critical day length'. The critical day length varies between species." [GOC

2049 Pathogen[ P03346] interacts with 1 human partners:{O15516}

2050 Pathogen[ Q85601] interacts with 1 human partners:{O15516}

2051 Pathogen[ P0C206] interacts with 1 human partners:{O15516}

2052 [Cluster 343]GO:0097190+P biological\_process [name] apoptotic signaling pathway [def] "A series of molecular signals which triggers the apoptotic death of a cell. The pathway starts with reception of a signal, and ends when the execution phase of apoptosis is triggered." [GOC

2053 Pathogen[ Q2Q067] interacts with 1 human partners:{P42575}

2054 Pathogen[ P0C214] interacts with 1 human partners:{P42575}

2055 Pathogen[ P03346] interacts with 1 human partners:{P42575}

2056 Pathogen[ Q85601] interacts with 1 human partners:{P42575}

2057 Pathogen[ P14079] interacts with 1 human partners:{P42575}

2058 Pathogen[ P03410] interacts with 1 human partners:{P42575}

2059 Pathogen[ P0C206] interacts with 1 human partners:{P42575}

2060 [Cluster 344]GO:0033561+P biological\_process [name] regulation of water loss via skin [def] "A process that modulates the rate or extent of water loss from an organism via the skin." [GOC

2061 Pathogen[ Q2Q067] interacts with 1 human partners:{P11831}

2062 Pathogen[ P0C214] interacts with 1 human partners:{P11831}

2063 Pathogen[ P03346] interacts with 1 human partners:{P11831}

2064 Pathogen[ Q85601] interacts with 1 human partners:{P11831}

2065 Pathogen[ P03383] interacts with 1 human partners:{P11831}

2066 Pathogen[ P03410] interacts with 1 human partners:{P11831}

2067 Pathogen[ P14075] interacts with 1 human partners:{P11831}

2068 Pathogen[ P0C206] interacts with 1 human partners:{P11831}

2069 Pathogen[ P03363] interacts with 1 human partners:{P11831}

2070 [Cluster 345]GO:0043171+P biological\_process [name] peptide catabolic process  
[def] "The chemical reactions and pathways resulting in the breakdown of peptides, compounds of 2 or more (but usually less than 100) amino acids where the alpha carboxyl group of one is bound to the alpha amino group of another." [GOC

2071 Pathogen[ P14079] interacts with 1 human partners:{O14773}

2072 [Cluster 346]GO:0031064+P biological\_process [name] negative regulation of histone deacetylation [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the removal of acetyl groups from histones." [GOC

2073 Pathogen[ Q2Q067] interacts with 1 human partners:{P12755}

2074 Pathogen[ P0C214] interacts with 1 human partners:{P12755}

2075 Pathogen[ Q85601] interacts with 1 human partners:{P12755}

2076 Pathogen[ P14079] interacts with 1 human partners:{P12755}

2077 Pathogen[ P03410] interacts with 1 human partners:{P12755}

2078 Pathogen[ P0C206] interacts with 1 human partners:{P12755}

2079 [Cluster 347]GO:0021938+P biological\_process [name] smoothened signaling pathway involved in regulation of cerebellar granule cell precursor cell proliferation [def] "The series of molecular signals generated as a consequence of activation of the transmembrane protein Smoothened in cerebellar granule cells that contributes to the regulation of proliferation of the cells." [GO\_REF

2080 Pathogen[ Q2Q067] interacts with 1 human partners:{P08151}

2081 Pathogen[ P0C214] interacts with 1 human partners:{P08151}

2082 Pathogen[ P03346] interacts with 1 human partners:{P08151}

2083 Pathogen[ Q85601] interacts with 1 human partners:{P08151}

2084 Pathogen[ P14079] interacts with 1 human partners:{P08151}

2085 Pathogen[ P0C206] interacts with 1 human partners:{P08151}

2086 Pathogen[ P03363] interacts with 1 human partners:{P08151}

2087 [Cluster 348]GO:0033578+P biological\_process [name] protein glycosylation in Golgi [def] "The addition of a sugar unit to a protein amino acid in any compartment of the Golgi apparatus." [GOC

2088 Pathogen[ P14079] interacts with 1 human partners:{Q96S06}

2089 Pathogen[ P03410] interacts with 1 human partners:{Q96S06}

2090 Pathogen[ P0C206] interacts with 1 human partners:{Q96S06}

2091 [Cluster 349]GO:0061383+P biological\_process [name] trabecula morphogenesis [def] "The process of shaping a trabecula in an organ. A trabecula is a small, often microscopic, tissue element in the form of a small beam, strut or rod, which generally has a mechanical function. Trabecula are usually but not necessarily, composed of dense collagenous tissue." [GOC

2092 Pathogen[ Q2Q067] interacts with 1 human partners:{P61586}

2093 Pathogen[ P0C214] interacts with 1 human partners:{P61586}

2094 Pathogen[ P03346] interacts with 1 human partners:{P61586}

2095 Pathogen[ Q85601] interacts with 1 human partners:{P61586}

2096 Pathogen[ P14079] interacts with 1 human partners:{P61586}

2097 Pathogen[ P03383] interacts with 1 human partners:{P61586}

2098 Pathogen[ P03410] interacts with 1 human partners:{P61586}

2099 Pathogen[ P14075] interacts with 1 human partners:{P61586}

2100 Pathogen[ P0C206] interacts with 1 human partners:{P61586}

2101 [Cluster 350]GO:2000384+P biological\_process [name] negative regulation of ectoderm development [def] "Any process that stops, prevents or reduces the frequency, rate or extent of ectoderm development." [GOC

2102 Pathogen[ P14079] interacts with 1 human partners:{P13693}

2103 Pathogen[ P03410] interacts with 1 human partners:{P13693}

2104 [Cluster 351]GO:0050994+P biological\_process [name] regulation of lipid catabolic process [def] "Any process that modulates the frequency, rate, or extent of the chemical reactions and pathways resulting in the breakdown of lipids." [GOC

2105 Pathogen[ Q2Q067] interacts with 1 human partners:{P10827}

2106 Pathogen[ P03346] interacts with 1 human partners:{P10827}

2107 Pathogen[ Q85601] interacts with 1 human partners:{P10827}

2108 Pathogen[ P14079] interacts with 1 human partners:{P10827}

2109 Pathogen[ P0C206] interacts with 1 human partners:{P10827}

2110 [Cluster 352]GO:0072102+P biological\_process [name] glomerulus morphogenesis [def] "The process in which the anatomical structures of the glomerulus are generated and organized. The glomerulus is a capillary tuft surrounded by Bowman's capsule in nephrons of the vertebrate kidney." [GOC

2111 Pathogen[ P14079] interacts with 1 human partners:{Q06413}

2112 [Cluster 353]GO:0043412+P biological\_process [name] macromolecule modification [def] "The covalent alteration of one or more monomeric units in a polypeptide, polynucleotide, polysaccharide, or other biological macromolecule, resulting in a change in its properties." [GOC

2113 Pathogen[ P14079] interacts with 2 human partners:{Q5VV42;Q96SZ6}

2114 [Cluster 354]GO:0034157+P biological\_process [name] positive regulation of toll-like receptor 7 signaling pathway [def] "Any process that activates or increases the frequency, rate, or extent of toll-like receptor 7 signaling pathway." [GOC

2115 Pathogen[ P0C214] interacts with 1 human partners:{Q8WXG1}

2116 Pathogen[ P14079] interacts with 1 human partners:{Q8WXG1}

2117 Pathogen[ P03410] interacts with 1 human partners:{Q8WXG1}

2118 Pathogen[ POC206] interacts with 1 human partners:{Q8WXG1}

2119 [Cluster 355]GO:0048010+P biological\_process [name] vascular endothelial growth factor receptor signaling pathway [def] "The series of molecular signals generated as a consequence of vascular endothelial growth factor receptor binding to one of its physiological ligands." [GOC

2120 Pathogen[ Q2Q067] interacts with 2 human partners:{O14786;P56945}

2121 Pathogen[ POC214] interacts with 2 human partners:{O14786;P56945}

2122 Pathogen[ P03346] interacts with 2 human partners:{P56945;O14786}

2123 Pathogen[ Q85601] interacts with 2 human partners:{O14786;P56945}

2124 Pathogen[ P03383] interacts with 1 human partners:{P56945}

2125 Pathogen[ P03410] interacts with 2 human partners:{O14786;P56945}

2126 Pathogen[ P14075] interacts with 1 human partners:{P56945}

2127 Pathogen[ POC206] interacts with 2 human partners:{O14786;P56945}

2128 Pathogen[ P03363] interacts with 2 human partners:{O14786;P56945}

2129 [Cluster 356]GO:0003289+P biological\_process [name] atrial septum primum morphogenesis [def] "The process in which anatomical structure of an atrial septum primum is generated and organized." [GOC

2130 Pathogen[ Q2Q067] interacts with 1 human partners:{O96028}

2131 Pathogen[ POC214] interacts with 1 human partners:{O96028}

2132 Pathogen[ P03346] interacts with 2 human partners:{Q06945;O96028}

2133 Pathogen[ Q85601] interacts with 1 human partners:{O96028}

2134 Pathogen[ POC206] interacts with 1 human partners:{O96028}

2135 Pathogen[ P03363] interacts with 1 human partners:{O96028}

2136 [Cluster 357]GO:0042109+P biological\_process [name] lymphotoxin A biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of the cytokine lymphotoxin A." [GOC

2137 Pathogen[ Q2Q067] interacts with 1 human partners:{O95999}

2138 Pathogen[ POC214] interacts with 1 human partners:{O95999}

2139 Pathogen[ P03346] interacts with 1 human partners:{O95999}

2140 Pathogen[ Q85601] interacts with 1 human partners:{O95999}

2141 Pathogen[ P14079] interacts with 1 human partners:{O95999}

2142 Pathogen[ P03383] interacts with 1 human partners:{O95999}

2143 Pathogen[ P03410] interacts with 1 human partners:{O95999}

2144 Pathogen[ P14075] interacts with 1 human partners:{O95999}

2145 Pathogen[ POC206] interacts with 1 human partners:{O95999}

2146 [Cluster 358]GO:0006499+P biological\_process [name] N-terminal protein myristoylation [def] "The covalent attachment of a myristoyl group to the N-terminal amino acid residue of a protein." [GOC

2147 Pathogen[ Q2Q067] interacts with 1 human partners:{P30419}

2148 Pathogen[ POC214] interacts with 2 human partners:{O60551;P30419}

2149 Pathogen[ Q85601] interacts with 2 human partners:{O60551;P30419}

2150 Pathogen[ P14079] interacts with 2 human partners:{O60551;P30419}

2151 Pathogen[ P03410] interacts with 2 human partners:{O60551;P30419}

2152 Pathogen[ POC206] interacts with 2 human partners:{P30419;O60551}

2153 [Cluster 359]GO:0000354+P biological\_process [name] cis assembly of pre-catalytic spliceosome [def] "Assembly of a spliceosomal complex containing the intact pre-mRNA and all of the spliceosomal snRNPs. This occurs when the tri-snRNP associates with the pre-mRNA and associated snRNPs in an ATP-dependent manner." [GOC

2154 Pathogen[ P03346] interacts with 2 human partners:{Q9BUQ8;O75643}

2155 Pathogen[ P03363] interacts with 1 human partners:{O75643}

2156 [Cluster 360]GO:0006548+P biological\_process [name] histidine catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of histidine, 2-amino-3-(1H-imidazol-4-yl)propanoic acid." [GOC

2157 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96NU7}

2158 Pathogen[ POC214] interacts with 1 human partners:{Q96NU7}

2159 Pathogen[ P03346] interacts with 1 human partners:{Q96NU7}

2160 Pathogen[ P14079] interacts with 4 human partners:{P42357;Q96NU7;Q96N76;O95954}

2161 Pathogen[ P03410] interacts with 3 human partners:{O95954;Q96NU7;Q96N76}

2162 Pathogen[ P14075] interacts with 1 human partners:{Q96NU7}

2163 Pathogen[ POC206] interacts with 2 human partners:{O95954;Q96NU7}

2164 [Cluster 361]GO:0001878+P biological\_process [name] response to yeast [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a stimulus from a yeast species." [PMID

2165 Pathogen[ Q2Q067] interacts with 1 human partners:{P27986}

2166 Pathogen[ POC214] interacts with 1 human partners:{P27986}

2167 Pathogen[ P03346] interacts with 1 human partners:{P27986}

2168 Pathogen[ Q85601] interacts with 1 human partners:{P27986}

2169 Pathogen[ P03383] interacts with 1 human partners:{P27986}

2170 Pathogen[ P03410] interacts with 1 human partners:{P27986}

2171 Pathogen[ P14075] interacts with 1 human partners:{P27986}

2172 Pathogen[ POC206] interacts with 1 human partners:{P27986}

2173 Pathogen[ P03363] interacts with 1 human partners:{P27986}

2174 [Cluster 362]GO:0048210+P biological\_process [name] Golgi vesicle fusion to target membrane [def] "The joining of the lipid bilayer membrane around a Golgi transport vesicle to the target lipid bilayer membrane." [GOC

2175 Pathogen[ P03346] interacts with 1 human partners:{Q969F2}

2176 Pathogen[ P03410] interacts with 1 human partners:{Q969F2}

2177 Pathogen[ P0C206] interacts with 1 human partners:{Q969F2}

2178 [Cluster 363]GO:0060009+P biological\_process [name] Sertoli cell development [def] "The process whose specific outcome is the progression of a Sertoli cell over time, from its formation to the mature structure. Cell development does not include the steps involved in committing a cell to a Sertoli cell fate." [GOC

2179 Pathogen[ Q2Q067] interacts with 1 human partners:{P15976}

2180 Pathogen[ P03346] interacts with 2 human partners:{P41225;P15976}

2181 Pathogen[ Q85601] interacts with 1 human partners:{P15976}

2182 Pathogen[ P14079] interacts with 1 human partners:{P15976}

2183 Pathogen[ P03410] interacts with 1 human partners:{P15976}

2184 Pathogen[ P0C206] interacts with 1 human partners:{P15976}

2185 [Cluster 364]GO:0032331+P biological\_process [name] negative regulation of chondrocyte differentiation [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of chondrocyte differentiation." [GOC

2186 Pathogen[ P03346] interacts with 1 human partners:{P78367}

2187 Pathogen[ P03363] interacts with 1 human partners:{P78367}

2188 [Cluster 365]GO:0030850+P biological\_process [name] prostate gland development [def] "The process whose specific outcome is the progression of the prostate gland over time, from its formation to the mature structure. The prostate gland is a partly muscular, partly glandular body that is situated near the base of the mammalian male urethra and secretes an alkaline viscid fluid which is a major constituent of the ejaculatory fluid." [PMID

2189 Pathogen[ Q2Q067] interacts with 1 human partners:{P35869}

2190 Pathogen[ P0C214] interacts with 1 human partners:{P35869}

2191 Pathogen[ P03346] interacts with 1 human partners:{P35869}

2192 Pathogen[ Q85601] interacts with 1 human partners:{P35869}

2193 Pathogen[ P14079] interacts with 1 human partners:{P35869}

2194 Pathogen[ P03383] interacts with 1 human partners:{P35869}

2195 Pathogen[ P14075] interacts with 1 human partners:{P35869}

2196 Pathogen[ P0C206] interacts with 1 human partners:{P35869}

2197 Pathogen[ P03363] interacts with 1 human partners:{P35869}

2198 [Cluster 366]GO:0010529+P biological\_process [name] negative regulation of transposition [def] "Any process that decreases the frequency, rate or extent of transposition. Transposition results in the movement of discrete segments of DNA between nonhomologous sites." [GOC

2199 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9HC16}

2200 Pathogen[ P0C214] interacts with 1 human partners:{Q9HC16}

2201 Pathogen[ Q85601] interacts with 1 human partners:{Q9HC16}

2202 Pathogen[ P14079] interacts with 2 human partners:{P31941;Q9HC16}

2203 Pathogen[ P03410] interacts with 4 human partners:{Q9HC16;Q9NRW3;P31941;Q6NTF7}

2204 Pathogen[ P0C206] interacts with 3 human partners:{P31941;Q6NTF7;Q9HC16}

2205 [Cluster 367]GO:0048388+P biological\_process [name] endosomal lumen acidification [def] "Any process that reduces the pH of the endosomal lumen, measured by the concentration of the hydrogen ion." [GOC

2206 Pathogen[ P14079] interacts with 1 human partners:{Q8NBQ7}

2207 [Cluster 368]GO:0043462+P biological\_process [name] regulation of ATPase activity [def] "Any process that modulates the rate of ATP hydrolysis by an ATPase." [GOC

2208 Pathogen[ P0C214] interacts with 1 human partners:{P13533}

2209 Pathogen[ P03346] interacts with 1 human partners:{P63316}

2210 Pathogen[ Q85601] interacts with 1 human partners:{P13533}

2211 Pathogen[ P14079] interacts with 1 human partners:{P07951}

2212 Pathogen[ P03410] interacts with 3 human partners:{P07951;P63316;P13533}

2213 Pathogen[ P0C206] interacts with 1 human partners:{P13533}

2214 [Cluster 369]GO:0046034+P biological\_process [name] ATP metabolic process [def] "The chemical reactions and pathways involving ATP, adenosine triphosphate, a universally important coenzyme and enzyme regulator." [GOC

2215 Pathogen[ Q2Q067] interacts with 1 human partners:{P24539}

2216 Pathogen[ P0C214] interacts with 3 human partners:{Q92934;P28331;P24539}

2217 Pathogen[ P03346] interacts with 1 human partners:{P24539}

2218 Pathogen[ Q85601] interacts with 1 human partners:{P24539}

2219 Pathogen[ P14079] interacts with 6 human partners:{O95544;P25705;P56385;Q92934;Q9UN42;P24539}

2220 Pathogen[ P03383] interacts with 1 human partners:{P24539}

2221 Pathogen[ P03410] interacts with 6 human partners:{P25705;Q92934;P56385;P24539;Q9UN42;P18859}

2222 Pathogen[ P14075] interacts with 2 human partners:{P24539;P56385}

2223 Pathogen[ P0C206] interacts with 4 human partners:{Q92934;P24539;Q9UN42;P56385}

2224 [Cluster 370]GO:0051387+P biological\_process [name] negative regulation of nerve growth factor receptor signaling pathway [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the activity of the nerve growth factor receptor signaling pathway." [GOC

2225 Pathogen[ P14079] interacts with 1 human partners:{O43597}

2226 Pathogen[ P03410] interacts with 1 human partners:{O43597}

2227 Pathogen[ P0C206] interacts with 1 human partners:{O43597}



2228 [Cluster 371]GO:0060971+P biological\_process [name] embryonic heart tube left/right pattern formation [def] "The pattern specification process that results in the subdivision of the left/right axis of the embryonic heart tube in space to define an area or volume in which specific patterns of cell differentiation will take place." [GOC

2229 Pathogen[ P03346] interacts with 1 human partners:{Q9Y283}

2230 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y283}

2231 Pathogen[ P14079] interacts with 1 human partners:{Q9Y283}

2232 Pathogen[ P03410] interacts with 1 human partners:{Q9Y283}

2233 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y283}

2234 Pathogen[ P03363] interacts with 1 human partners:{Q9Y283}

2235 [Cluster 372]GO:0031275+P biological\_process [name] regulation of lateral pseudopodium assembly [def] "Any process that modulates the frequency, rate or extent of the assembly of pseudopodia from the lateral side of the cell." [GOC

2236 Pathogen[ P03346] interacts with 1 human partners:{O60662}

2237 Pathogen[ P03363] interacts with 1 human partners:{O60662}

2238 [Cluster 373]GO:0072221+P biological\_process [name] metanephric distal convoluted tubule development [def] "The process whose specific outcome is the progression of the metanephric distal convoluted tubule over time, from its formation to the mature structure. The metanephric distal convoluted tubule is a portion of the metanephric nephron tubule that connects the metanephric loop of Henle to the collecting duct." [GOC

2239 Pathogen[ P0C214] interacts with 1 human partners:{P05937}

2240 Pathogen[ P03346] interacts with 2 human partners:{P05937;Q06710}

2241 Pathogen[ P14079] interacts with 1 human partners:{P05937}

2242 Pathogen[ P03410] interacts with 1 human partners:{P05937}

2243 Pathogen[ P03363] interacts with 1 human partners:{P05937}

2244 [Cluster 374]GO:0046621+P biological\_process [name] negative regulation of organ growth [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of growth of an organ of an organism." [GOC

2245 Pathogen[ Q2Q067] interacts with 1 human partners:{O00255}

2246 Pathogen[ P0C214] interacts with 1 human partners:{O00255}

2247 Pathogen[ P03346] interacts with 1 human partners:{O00255}

2248 Pathogen[ Q85601] interacts with 1 human partners:{O00255}

2249 Pathogen[ P14079] interacts with 2 human partners:{P01215;O00255}

2250 Pathogen[ P03383] interacts with 2 human partners:{O00255;P01215}

2251 Pathogen[ P03410] interacts with 2 human partners:{P01215;O00255}

2252 Pathogen[ P14075] interacts with 2 human partners:{O00255;P01215}

2253 Pathogen[ P0C206] interacts with 2 human partners:{O00255;P01215}

2254 [Cluster 375]GO:0050829+P biological\_process [name] defense response to Gram-negative bacterium [def] "Reactions triggered in response to the presence of a Gram-negative bacterium that act to protect the cell or organism." [GOC

2255 Pathogen[ P0C214] interacts with 1 human partners:{P05121}

2256 Pathogen[ Q85601] interacts with 1 human partners:{P05121}

2257 Pathogen[ P03410] interacts with 1 human partners:{P05121}

2258 Pathogen[ P0C206] interacts with 1 human partners:{P05121}

2259 [Cluster 376]GO:0010463+P biological\_process [name] mesenchymal cell proliferation [def] "The multiplication or reproduction of cells, resulting in the expansion of a mesenchymal cell population. A mesenchymal cell is a cell that normally gives rise to other cells that are organized as three-dimensional masses, rather than sheets." [GOC

2260 Pathogen[ P14079] interacts with 1 human partners:{P28360}

2261 [Cluster 377]GO:0043570+P biological\_process [name] maintenance of DNA repeat elements [def] "Any process involved in sustaining the fidelity and copy number of DNA repeat elements." [GOC

2262 Pathogen[ P0C214] interacts with 1 human partners:{P20585}

2263 Pathogen[ P03346] interacts with 1 human partners:{P20585}

2264 Pathogen[ Q85601] interacts with 1 human partners:{P20585}

2265 Pathogen[ P14079] interacts with 2 human partners:{P20585;P52701}

2266 Pathogen[ P03410] interacts with 2 human partners:{P20585;P52701}

2267 Pathogen[ P0C206] interacts with 2 human partners:{P52701;P20585}

2268 Pathogen[ P03363] interacts with 1 human partners:{P20585}

2269 [Cluster 378]GO:0001923+P biological\_process [name] B-1 B cell differentiation [def] "The process in which a hemopoietic stem cell acquires the specialized features of a B-1 B cell. B-1 B cells are a distinct subset of B cells characterized as being CD5 positive, found predominantly in the peritoneum, pleural cavities, and spleen, and enriched for self-reactivity." [GOC

2270 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UDY8}

2271 Pathogen[ P0C214] interacts with 1 human partners:{Q9UDY8}

2272 Pathogen[ P03346] interacts with 1 human partners:{Q9UDY8}

2273 Pathogen[ Q85601] interacts with 1 human partners:{Q9UDY8}

2274 Pathogen[ P0C206] interacts with 1 human partners:{Q9UDY8}

2275 [Cluster 379]GO:0003085+P biological\_process [name] negative regulation of systemic arterial blood pressure [def] "The process that reduces the force with which blood travels through the systemic arterial circulatory system." [GOC

2276 Pathogen[ P14079] interacts with 1 human partners:{P46695}

2277 Pathogen[ P03410] interacts with 1 human partners:{P46695}

2278 [Cluster 380]GO:0039534+P

2279 Pathogen[ P14079] interacts with 1 human partners:{Q96C10}

2280 Pathogen[ P03410] interacts with 1 human partners:{Q96C10}

2281 Pathogen[ P0C206] interacts with 1 human partners:{Q96C10}

2282 [Cluster 381]GO:0045835+P biological\_process [name] negative regulation of meiosis  
[def] "Any process that stops, prevents, or reduces the frequency, rate or extent of meiosis." [GOC]

2283 Pathogen[ P03346] interacts with 1 human partners:{Q9Y5R6}

2284 Pathogen[ Q85601] interacts with 1 human partners:{Q4G163}

2285 Pathogen[ P14079] interacts with 1 human partners:{Q4G163}

2286 Pathogen[ P03410] interacts with 1 human partners:{Q4G163}

2287 Pathogen[ P0C206] interacts with 2 human partners:{Q9Y5R6;Q4G163}

2288 Pathogen[ P03363] interacts with 1 human partners:{Q9Y5R6}

2289 [Cluster 382]GO:0009311+P biological\_process [name] oligosaccharide metabolic process  
[def] "The chemical reactions and pathways involving oligosaccharides, molecules with between two and (about) 20 monosaccharide residues connected by glycosidic linkages." [ISBN]

2290 Pathogen[ P14079] interacts with 2 human partners:{P06280;P17050}

2291 [Cluster 383]GO:0021545+P biological\_process [name] cranial nerve development  
[def] "The process whose specific outcome is the progression of the cranial nerves over time, from its formation to the mature structure. The cranial nerves are composed of twelve pairs of nerves that emanate from the nervous tissue of the hindbrain. These nerves are sensory, motor, or mixed in nature, and provide the motor and general sensory innervation of the head, neck and viscera. They mediate vision, hearing, olfaction and taste and carry the parasympathetic innervation of the autonomic ganglia that control visceral functions." [GO\_REF]

2292 Pathogen[ P03346] interacts with 1 human partners:{Q9P2D1}

2293 Pathogen[ Q85601] interacts with 1 human partners:{Q9P2D1}

2294 Pathogen[ P14079] interacts with 1 human partners:{Q9P2D1}

2295 Pathogen[ P03410] interacts with 1 human partners:{Q9P2D1}

2296 Pathogen[ P0C206] interacts with 1 human partners:{Q9P2D1}

2297 [Cluster 384]GO:0010613+P biological\_process [name] positive regulation of cardiac muscle hypertrophy [def] "Any process that increases the rate, frequency or extent of the enlargement or overgrowth of all or part of the heart due to an increase in size (not length) of individual cardiac muscle fibers, without cell division." [GOC]

2298 Pathogen[ P03346] interacts with 1 human partners:{P58546}

2299 [Cluster 385]GO:2000781+P biological\_process [name] positive regulation of double-strand break repair [def] "Any process that activates or increases the frequency, rate or extent of double-strand break repair." [GOC]

2300 Pathogen[ Q2Q067] interacts with 1 human partners:{Q08050}

2301 Pathogen[ P03346] interacts with 1 human partners:{Q08050}

2302 Pathogen[ Q85601] interacts with 1 human partners:{Q08050}

2303 Pathogen[ P14075] interacts with 1 human partners:{Q08050}

2304 Pathogen[ P0C206] interacts with 1 human partners:{Q08050}

2305 Pathogen[ P03363] interacts with 1 human partners:{Q08050}

2306 [Cluster 386]GO:0030517+P biological\_process [name] negative regulation of axon extension [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of axon outgrowth." [GOC]

2307 Pathogen[ Q2Q067] interacts with 2 human partners:{O14786;Q9Y252}

2308 Pathogen[ P0C214] interacts with 2 human partners:{O14786;Q9Y252}

2309 Pathogen[ P03346] interacts with 3 human partners:{Q9H165;Q9Y252;O14786}

2310 Pathogen[ Q85601] interacts with 2 human partners:{O14786;Q9Y252}

2311 Pathogen[ P03383] interacts with 1 human partners:{Q9Y252}

2312 Pathogen[ P03410] interacts with 1 human partners:{O14786}

2313 Pathogen[ P14075] interacts with 1 human partners:{Q9Y252}

2314 Pathogen[ P0C206] interacts with 3 human partners:{O14786;Q9H165;Q9Y252}

2315 Pathogen[ P03363] interacts with 2 human partners:{Q9Y252;O14786}

2316 [Cluster 387]GO:0097194+P biological\_process [name] execution phase of apoptosis  
[def] "A stage of the apoptotic process that starts with the controlled breakdown of the cell through the action of effector caspases or other effector molecules (e.g. cathepsins, calpains etc.). Key steps of the execution phase are rounding-up of the cell, retraction of pseudopodes, reduction of cellular volume (pyknosis), chromatin condensation, nuclear fragmentation (karyorrhexis), plasma membrane blebbing and fragmentation of the cell into apoptotic bodies. The execution phase ends when the cell has died." [GOC]

2317 Pathogen[ Q2Q067] interacts with 1 human partners:{P42575}

2318 Pathogen[ P0C214] interacts with 1 human partners:{P42575}

2319 Pathogen[ P03346] interacts with 1 human partners:{P42575}

2320 Pathogen[ Q85601] interacts with 1 human partners:{P42575}

2321 Pathogen[ P14079] interacts with 1 human partners:{P42575}

2322 Pathogen[ P03410] interacts with 1 human partners:{P42575}

2323 Pathogen[ P0C206] interacts with 1 human partners:{P42575}

2324 [Cluster 388]GO:0016560+P biological\_process [name] protein import into peroxisome matrix, docking [def] "The process in which a complex formed of a peroxisome targeting sequence (PTS) receptor bound to a PTS-bearing protein docks with translocation machinery in the preoxisomal membrane." [PMID]

2325 Pathogen[ P03346] interacts with 1 human partners:{P50542}

2326 Pathogen[ P14079] interacts with 1 human partners:{P50542}

2327 Pathogen[ P03410] interacts with 1 human partners:{P50542}

2328 Pathogen[ P0C206] interacts with 1 human partners:{P50542}

2329 [Cluster 389]GO:0008078+P biological\_process [name] mesodermal cell migration  
[def] "The orderly movement of mesodermal cells from one site to another." [GOC

2330 Pathogen[ Q2Q067] interacts with 1 human partners:{Q0VG99}

2331 Pathogen[ P03346] interacts with 1 human partners:{Q0VG99}

2332 Pathogen[ Q85601] interacts with 1 human partners:{Q0VG99}

2333 Pathogen[ P0C206] interacts with 1 human partners:{Q0VG99}

2334 Pathogen[ P03363] interacts with 1 human partners:{Q0VG99}

2335 [Cluster 390]GO:0002335+P biological\_process [name] mature B cell differentiation  
[def] "The process in which transitional stage B cells acquire the specialized features  
of mature B cells in the spleen." [GOC

2336 Pathogen[ Q2Q067] interacts with 1 human partners:{P09086}

2337 Pathogen[ P0C214] interacts with 1 human partners:{P09086}

2338 Pathogen[ P03346] interacts with 1 human partners:{P09086}

2339 Pathogen[ Q85601] interacts with 1 human partners:{P09086}

2340 Pathogen[ P14079] interacts with 1 human partners:{P09086}

2341 Pathogen[ P0C206] interacts with 1 human partners:{P09086}

2342 Pathogen[ P03363] interacts with 1 human partners:{P09086}

2343 [Cluster 391]GO:0032753+P biological\_process [name] positive regulation of  
interleukin-4 production [def] "Any process that activates or increases the  
frequency, rate, or extent of interleukin-4 production." [GOC

2344 Pathogen[ P03346] interacts with 1 human partners:{O75995}

2345 Pathogen[ P14079] interacts with 1 human partners:{O95760}

2346 Pathogen[ P03410] interacts with 1 human partners:{O95760}

2347 [Cluster 392]GO:0050856+P biological\_process [name] regulation of T cell receptor  
signaling pathway [def] "Any process that modulates the frequency, rate or extent of  
signaling pathways initiated by the cross-linking of an antigen receptor on a T cell."  
[GOC

2348 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9UDY8;O95999}

2349 Pathogen[ P0C214] interacts with 2 human partners:{Q9UDY8;O95999}

2350 Pathogen[ P03346] interacts with 2 human partners:{Q9UDY8;O95999}

2351 Pathogen[ Q85601] interacts with 2 human partners:{Q9UDY8;O95999}

2352 Pathogen[ P14079] interacts with 1 human partners:{O95999}

2353 Pathogen[ P03383] interacts with 1 human partners:{O95999}

2354 Pathogen[ P03410] interacts with 1 human partners:{O95999}

2355 Pathogen[ P14075] interacts with 1 human partners:{O95999}

2356 Pathogen[ P0C206] interacts with 2 human partners:{Q9UDY8;O95999}

2357 [Cluster 393]GO:0015755+P biological\_process [name] fructose transport [def] "The  
directed movement of fructose into, out of or within a cell, or between cells, by means  
of some agent such as a transporter or pore. Fructose exists in a open chain form or as  
a ring compound. D-fructose is the sweetest of the sugars and is found free in a large  
number of fruits and honey." [GOC

2358 Pathogen[ P0C214] interacts with 1 human partners:{P11168}

2359 Pathogen[ Q85601] interacts with 1 human partners:{P11168}

2360 Pathogen[ P03383] interacts with 2 human partners:{P11168;P22732}

2361 Pathogen[ P03410] interacts with 2 human partners:{P22732;P11168}

2362 Pathogen[ P14075] interacts with 2 human partners:{P22732;P11168}

2363 Pathogen[ P0C206] interacts with 1 human partners:{P11168}

2364 [Cluster 394]GO:0050863+P biological\_process [name] regulation of T cell activation  
[def] "Any process that modulates the frequency, rate or extent of T cell activation."  
[GOC

2365 Pathogen[ P03346] interacts with 1 human partners:{Q9Y3P8}

2366 Pathogen[ P14079] interacts with 2 human partners:{O43561;Q9Y3P8}

2367 Pathogen[ P03383] interacts with 1 human partners:{Q9Y3P8}

2368 Pathogen[ P03410] interacts with 2 human partners:{O43561;Q9Y3P8}

2369 Pathogen[ P14075] interacts with 1 human partners:{Q9Y3P8}

2370 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y3P8}

2371 Pathogen[ P03363] interacts with 1 human partners:{Q9Y3P8}

2372 [Cluster 395]GO:0070184+P biological\_process [name] mitochondrial tyrosyl-tRNA  
aminoacylation [def] "The process of coupling threonine to tyrosyl-tRNA in a  
mitochondrion, catalyzed by tyrosyl-tRNA synthetase. In tRNA aminoacylation, the amino  
acid is first activated by linkage to AMP and then transferred to either the 2'- or the  
3'-hydroxyl group of the 3'-adenosine residue of the tRNA." [GOC

2373 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y2Z4}

2374 Pathogen[ P14079] interacts with 1 human partners:{Q9Y2Z4}

2375 Pathogen[ P03383] interacts with 1 human partners:{Q9Y2Z4}

2376 Pathogen[ P03410] interacts with 1 human partners:{Q9Y2Z4}

2377 Pathogen[ P14075] interacts with 1 human partners:{Q9Y2Z4}

2378 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y2Z4}

2379 Pathogen[ P03363] interacts with 1 human partners:{Q9Y2Z4}

2380 [Cluster 396]GO:0021858+P biological\_process [name] GABAergic neuron differentiation  
in basal ganglia [def] "The process in which a neuroblast acquires the specialized  
structural and functional features of a GABAergic inhibitory neuron in the basal  
ganglia. Differentiation includes the processes involved in commitment of a neuroblast  
to a GABAergic neuron." [GO\_REF

2381 Pathogen[ Q2Q067] interacts with 1 human partners:{A6NFD8}

2382 Pathogen[ P03346] interacts with 1 human partners:{A6NFD8}

2383 Pathogen[ Q85601] interacts with 1 human partners:{A6NFD8}

2384 Pathogen[ P14079] interacts with 1 human partners:{A6NFD8}

2385 Pathogen[ P03410] interacts with 1 human partners:{A6NFD8}

2386 Pathogen[ POC206] interacts with 1 human partners:{A6NFD8}

2387 Pathogen[ P03363] interacts with 1 human partners:{A6NFD8}

2388 [Cluster 397]GO:0019088+P biological\_process [name] immortalization of host cell by virus [def] "A virus-induced cellular transformation arising in immortalized cells, or cells capable of indefinite replication, due to their ability to produce their own telomerase." [ISBN

2389 Pathogen[ Q2Q067] interacts with 1 human partners:{P04818}

2390 Pathogen[ POC214] interacts with 1 human partners:{P04818}

2391 Pathogen[ P14079] interacts with 1 human partners:{P04818}

2392 Pathogen[ P03410] interacts with 1 human partners:{P04818}

2393 Pathogen[ POC206] interacts with 1 human partners:{P04818}

2394 [Cluster 398]GO:0031640+P biological\_process [name] killing of cells of other organism [def] "Any process in an organism that results in the killing of cells of another organism, including in some cases the death of the other organism. Killing here refers to the induction of death in one cell by another cell, not cell-autonomous death due to internal or other environmental conditions." [GOC

2395 Pathogen[ P14079] interacts with 3 human partners:{P15515;P15516;P81172}

2396 Pathogen[ P03410] interacts with 3 human partners:{P81172;P15515;P15516}

2397 Pathogen[ P14075] interacts with 1 human partners:{P15515}

2398 Pathogen[ POC206] interacts with 1 human partners:{P15515}

2399 Pathogen[ P03363] interacts with 1 human partners:{P15515}

2400 [Cluster 399]GO:0072358+P biological\_process [name] cardiovascular system development [def] "The process whose specific outcome is the progression of the cardiovascular system over time, from its formation to the mature structure. The cardiovascular system is the anatomical system that has as its parts the heart and blood vessels." [GOC

2401 Pathogen[ P14079] interacts with 1 human partners:{Q8NBL1}

2402 [Cluster 400]GO:1900041+P

2403 Pathogen[ Q2Q067] interacts with 1 human partners:{P14373}

2404 Pathogen[ POC214] interacts with 1 human partners:{P14373}

2405 Pathogen[ P03346] interacts with 1 human partners:{P14373}

2406 Pathogen[ Q85601] interacts with 1 human partners:{P14373}

2407 Pathogen[ P14079] interacts with 1 human partners:{P14373}

2408 Pathogen[ POC206] interacts with 1 human partners:{P14373}

2409 Pathogen[ P03363] interacts with 1 human partners:{P14373}

2410 [Cluster 401]GO:0001561+P biological\_process [name] fatty acid alpha-oxidation [def] "A metabolic pathway by which 3-methyl branched fatty acids are degraded. These compounds are not degraded by the normal peroxisomal beta-oxidation pathway, because the 3-methyl blocks the dehydrogenation of the hydroxyl group by hydroxyacyl-CoA dehydrogenase. The 3-methyl branched fatty acid is converted in several steps to pristanic acid, which can then feed into the beta-oxidative pathway." [http

2411 Pathogen[ POC214] interacts with 1 human partners:{O14832}

2412 Pathogen[ P14079] interacts with 1 human partners:{O14832}

2413 Pathogen[ P03410] interacts with 1 human partners:{O14832}

2414 Pathogen[ P14075] interacts with 1 human partners:{O14832}

2415 Pathogen[ POC206] interacts with 1 human partners:{O14832}

2416 [Cluster 402]GO:0021568+P biological\_process [name] rhombomere 2 development [def] "The process whose specific outcome is the progression of rhombomere 2 over time, from its formation to the mature structure. Rhombomeres are transverse segments of the developing rhombencephalon. Rhombomeres are lineage restricted, express different genes from one another, and adopt different developmental fates. Rhombomeres are numbered in anterior to posterior order." [GO\_REF

2417 Pathogen[ Q2Q067] interacts with 1 human partners:{O43364}

2418 Pathogen[ P03346] interacts with 2 human partners:{P52951;O43364}

2419 Pathogen[ Q85601] interacts with 1 human partners:{O43364}

2420 Pathogen[ P14079] interacts with 1 human partners:{O43364}

2421 Pathogen[ P03410] interacts with 1 human partners:{O43364}

2422 Pathogen[ POC206] interacts with 1 human partners:{O43364}

2423 Pathogen[ P03363] interacts with 2 human partners:{P52951;O43364}

2424 [Cluster 403]GO:0050432+P biological\_process [name] catecholamine secretion [def] "The regulated release of catecholamines by a cell or group of cells. The catecholamines are a group of physiologically important biogenic amines that possess a catechol (3,4-dihydroxyphenyl) nucleus and are derivatives of 3,4-dihydroxyphenylethylamine." [GOC

2425 Pathogen[ P03346] interacts with 1 human partners:{Q9ULU8}

2426 Pathogen[ P14079] interacts with 1 human partners:{Q9ULU8}

2427 Pathogen[ P03410] interacts with 1 human partners:{Q9ULU8}

2428 Pathogen[ POC206] interacts with 1 human partners:{Q9ULU8}

2429 [Cluster 404]GO:0048753+P biological\_process [name] pigment granule organization [def] "A process that is carried out at the cellular level which results in the assembly, arrangement of constituent parts, or disassembly of a pigment granule." [GOC

2430 Pathogen[ POC214] interacts with 1 human partners:{Q99698}

2431 Pathogen[ P03346] interacts with 1 human partners:{Q99698}

2432 Pathogen[ Q85601] interacts with 1 human partners:{Q99698}

2433 Pathogen[ P14079] interacts with 1 human partners:{Q99698}

2434 Pathogen[ P03410] interacts with 1 human partners:{Q99698}

2435 Pathogen[ P0C206] interacts with 1 human partners:{Q99698}

2436 Pathogen[ P03363] interacts with 1 human partners:{Q99698}

2437 [Cluster 405]GO:0048702+P biological\_process [name] embryonic neurocranium morphogenesis [def] "The process in which the anatomical structures of the neurocranium are generated and organized during the embryonic phase. The neurocranium is the portion of the vertebrate skull surrounding the brain." [GOC

2438 Pathogen[ Q2Q067] interacts with 1 human partners:{P49639}

2439 Pathogen[ P0C214] interacts with 1 human partners:{P49639}

2440 Pathogen[ P03346] interacts with 1 human partners:{P49639}

2441 Pathogen[ Q85601] interacts with 1 human partners:{P49639}

2442 Pathogen[ P14079] interacts with 1 human partners:{P49639}

2443 Pathogen[ P03383] interacts with 1 human partners:{P49639}

2444 Pathogen[ P03410] interacts with 1 human partners:{P49639}

2445 Pathogen[ P0C206] interacts with 1 human partners:{P49639}

2446 Pathogen[ P03363] interacts with 1 human partners:{P49639}

2447 [Cluster 406]GO:0030432+P biological\_process [name] peristalsis [def] "A wavelike sequence of involuntary muscular contraction and relaxation that passes along a tubelike structure, such as the intestine, impelling the contents onwards." [ISBN

2448 Pathogen[ Q2Q067] interacts with 1 human partners:{Q12959}

2449 Pathogen[ P0C214] interacts with 1 human partners:{Q12959}

2450 Pathogen[ P03346] interacts with 1 human partners:{Q12959}

2451 Pathogen[ Q85601] interacts with 1 human partners:{Q12959}

2452 Pathogen[ P03410] interacts with 1 human partners:{Q12959}

2453 Pathogen[ P0C206] interacts with 1 human partners:{Q12959}

2454 Pathogen[ P03363] interacts with 1 human partners:{Q12959}

2455 [Cluster 407]GO:0002204+P biological\_process [name] somatic recombination of immunoglobulin genes involved in immune response [def] "The process in which immunoglobulin genes are formed through recombination of the germline genetic elements, also known as immunoglobulin gene segments, within a single locus following the induction of and contributing to an immune response." [GOC

2456 Pathogen[ P0C214] interacts with 1 human partners:{P40692}

2457 Pathogen[ Q85601] interacts with 1 human partners:{P40692}

2458 Pathogen[ P14079] interacts with 1 human partners:{P40692}

2459 Pathogen[ P03410] interacts with 1 human partners:{P40692}

2460 Pathogen[ P0C206] interacts with 1 human partners:{P40692}

2461 [Cluster 408]GO:0003211+P biological\_process [name] cardiac ventricle formation [def] "The developmental process pertaining to the initial formation of a cardiac ventricle from unspecified parts. A cardiac ventricle receives blood from a cardiac atrium and pumps it out of the heart." [GOC

2462 Pathogen[ P03346] interacts with 1 human partners:{Q06945}

2463 Pathogen[ P14079] interacts with 1 human partners:{Q06413}

2464 [Cluster 409]GO:0035641+P biological\_process [name] locomotory exploration behavior [def] "The specific movement from place to place of an organism in response to a novel environment." [GOC

2465 Pathogen[ Q2Q067] interacts with 1 human partners:{P78352}

2466 Pathogen[ P0C214] interacts with 1 human partners:{P78352}

2467 Pathogen[ P03346] interacts with 1 human partners:{P78352}

2468 Pathogen[ Q85601] interacts with 1 human partners:{P78352}

2469 Pathogen[ P03383] interacts with 1 human partners:{P78352}

2470 Pathogen[ P03410] interacts with 1 human partners:{P78352}

2471 Pathogen[ P14075] interacts with 1 human partners:{P78352}

2472 Pathogen[ P0C206] interacts with 1 human partners:{P78352}

2473 Pathogen[ P03363] interacts with 1 human partners:{P78352}

2474 [Cluster 410]GO:0009128+P biological\_process [name] purine nucleoside monophosphate catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of purine nucleoside monophosphate, a compound consisting of a purine base linked to a ribose or deoxyribose sugar esterified with phosphate on the sugar." [GOC

2475 Pathogen[ P14079] interacts with 1 human partners:{Q9BXI3}

2476 Pathogen[ P03410] interacts with 1 human partners:{Q9BXI3}

2477 [Cluster 411]GO:0071786+P biological\_process [name] endoplasmic reticulum tubular network organization [def] "A process that is carried out at the cellular level which results in the assembly, arrangement of constituent parts, or disassembly of the endoplasmic reticulum (ER) tubular network. The ER tubular network is the ER part that comprises the membranes with high curvature in cross-section." [GOC

2478 Pathogen[ P0C214] interacts with 1 human partners:{Q9H902}

2479 Pathogen[ P03346] interacts with 1 human partners:{Q9H902}

2480 Pathogen[ Q85601] interacts with 1 human partners:{Q9H902}

2481 Pathogen[ P14079] interacts with 2 human partners:{Q9NZ43;Q9H902}

2482 Pathogen[ P03410] interacts with 2 human partners:{Q9NZ43;Q9H902}

2483 Pathogen[ P0C206] interacts with 1 human partners:{Q9H902}

2484 Pathogen[ P03363] interacts with 1 human partners:{Q9H902}

2485 [Cluster 412]GO:0061072+P biological\_process [name] iris morphogenesis [def] "The

process in which the iris is generated and organized. The iris is an anatomical structure in the eye whose opening forms the pupil. The iris is responsible for controlling the diameter and size of the pupil and the amount of light reaching the retina." [GOC

2486 Pathogen[ P03346] interacts with 1 human partners:{Q86Z02}

2487 [Cluster 413]GO:0051771+P biological\_process [name] negative regulation of nitric-oxide synthase biosynthetic process [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the chemical reactions and pathways resulting in the formation of a nitric-oxide synthase enzyme." [GOC

2488 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BQE4}

2489 Pathogen[ P0C214] interacts with 1 human partners:{Q9BQE4}

2490 Pathogen[ Q85601] interacts with 1 human partners:{Q9BQE4}

2491 Pathogen[ P14079] interacts with 1 human partners:{Q9BQE4}

2492 Pathogen[ P03383] interacts with 1 human partners:{Q9BQE4}

2493 Pathogen[ P03410] interacts with 1 human partners:{Q9BQE4}

2494 Pathogen[ P14075] interacts with 1 human partners:{Q9BQE4}

2495 Pathogen[ P0C206] interacts with 1 human partners:{Q9BQE4}

2496 [Cluster 414]GO:1900164+P

2497 Pathogen[ P03346] interacts with 1 human partners:{O75593}

2498 [Cluster 415]GO:0016073+P biological\_process [name] snRNA metabolic process [def] "The chemical reactions and pathways involving snRNA, small nuclear RNA, any of various low-molecular-mass RNA molecules found in the eukaryotic nucleus as components of the small nuclear ribonucleoprotein." [ISBN

2499 Pathogen[ P14079] interacts with 1 human partners:{Q7L2J0}

2500 Pathogen[ P03410] interacts with 1 human partners:{Q7L2J0}

2501 Pathogen[ P0C206] interacts with 1 human partners:{Q7L2J0}

2502 [Cluster 416]GO:0008610+P biological\_process [name] lipid biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of lipids, compounds soluble in an organic solvent but not, or sparingly, in an aqueous solvent." [GOC

2503 Pathogen[ Q2Q067] interacts with 1 human partners:{P36956}

2504 Pathogen[ P03346] interacts with 1 human partners:{P36956}

2505 Pathogen[ Q85601] interacts with 1 human partners:{P36956}

2506 Pathogen[ P14079] interacts with 1 human partners:{P36956}

2507 Pathogen[ P03410] interacts with 2 human partners:{P36956;Q9UBY8}

2508 Pathogen[ P0C206] interacts with 1 human partners:{P36956}

2509 [Cluster 417]GO:0071466+P biological\_process [name] cellular response to xenobiotic stimulus [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a xenobiotic compound stimulus. Xenobiotic compounds are compounds foreign to living organisms." [GOC

2510 Pathogen[ P14079] interacts with 1 human partners:{P31941}

2511 Pathogen[ P03410] interacts with 1 human partners:{P31941}

2512 Pathogen[ P0C206] interacts with 1 human partners:{P31941}

2513 [Cluster 418]GO:0035644+P biological\_process [name] phosphoanandamide dephosphorylation [def] "The process of removing one or more phosphate groups from a phosphorylated anandamide." [CHEBI

2514 Pathogen[ P03346] interacts with 1 human partners:{Q9Y2R2}

2515 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y2R2}

2516 Pathogen[ P03363] interacts with 1 human partners:{Q9Y2R2}

2517 [Cluster 419]GO:0006106+P biological\_process [name] fumarate metabolic process [def] "The chemical reactions and pathways involving fumarate, the anion of trans-1,2-ethenedicarboxylic acid, the diastereoisomer of maleate. It is a key intermediate in metabolism and is formed in the TCA cycle from succinate and converted into malate." [ISBN

2518 Pathogen[ Q2Q067] interacts with 1 human partners:{P07954}

2519 Pathogen[ P0C214] interacts with 1 human partners:{P07954}

2520 Pathogen[ P03346] interacts with 1 human partners:{P07954}

2521 Pathogen[ Q85601] interacts with 1 human partners:{P07954}

2522 Pathogen[ P14079] interacts with 1 human partners:{P07954}

2523 Pathogen[ P03410] interacts with 1 human partners:{P07954}

2524 Pathogen[ P0C206] interacts with 1 human partners:{P07954}

2525 [Cluster 420]GO:0006467+P biological\_process [name] protein thiol-disulfide exchange [def] "Oxidation of two organic sulfhydryl groups (thiols) by a disulfide compound to form a disulfide bond, according to the reaction RS-SR + R'SH = R'S-SR + RSH." [GOC

2526 Pathogen[ P03346] interacts with 1 human partners:{Q9NS18}

2527 Pathogen[ P0C206] interacts with 1 human partners:{Q9NS18}

2528 [Cluster 421]GO:0042866+P biological\_process [name] pyruvate biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of pyruvate, 2-oxopropanoate." [GOC

2529 Pathogen[ P0C214] interacts with 2 human partners:{P14618;Q86XE5}

2530 Pathogen[ P03346] interacts with 1 human partners:{P20132}

2531 Pathogen[ Q85601] interacts with 1 human partners:{P14618}

2532 Pathogen[ P14079] interacts with 2 human partners:{P20132;Q86XE5}

2533 Pathogen[ P03410] interacts with 2 human partners:{P20132;Q86XE5}

2534 Pathogen[ P14075] interacts with 1 human partners:{Q86XE5}

2535 Pathogen[ P0C206] interacts with 3 human partners:{P20132;Q86XE5;P14618}

2536 [Cluster 422]GO:0009236+P biological\_process [name] cobalamin biosynthetic process  
[def] "The chemical reactions and pathways resulting in the formation of cobalamin (vitamin B12), a water-soluble vitamin characterized by possession of a corrin nucleus containing a cobalt atom." [GOC

2537 Pathogen[ P03346] interacts with 1 human partners:{Q9Y4U1}

2538 Pathogen[ P14079] interacts with 1 human partners:{Q9Y4U1}

2539 Pathogen[ P03410] interacts with 1 human partners:{Q9Y4U1}

2540 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y4U1}

2541 [Cluster 423]GO:0019244+P biological\_process [name] lactate biosynthetic process from pyruvate [def] "The chemical reactions and pathways resulting in the formation of lactate from other compounds, including pyruvate." [GOC

2542 Pathogen[ Q2Q067] interacts with 1 human partners:{P07864}

2543 Pathogen[ P0C214] interacts with 1 human partners:{P07864}

2544 Pathogen[ Q85601] interacts with 1 human partners:{P07864}

2545 Pathogen[ P14079] interacts with 1 human partners:{P07864}

2546 Pathogen[ P03383] interacts with 1 human partners:{P07864}

2547 Pathogen[ P03410] interacts with 1 human partners:{P07864}

2548 Pathogen[ P14075] interacts with 1 human partners:{P07864}

2549 Pathogen[ P0C206] interacts with 1 human partners:{P07864}

2550 [Cluster 424]GO:0031954+P biological\_process [name] positive regulation of protein autophosphorylation [def] "Any process that activates or increases the frequency, rate or extent of the phosphorylation by a protein of one or more of its own residues." [GOC

2551 Pathogen[ Q2Q067] interacts with 2 human partners:{P49959;O60934}

2552 Pathogen[ P0C214] interacts with 1 human partners:{P49959}

2553 Pathogen[ P03346] interacts with 2 human partners:{P49959;O60934}

2554 Pathogen[ Q85601] interacts with 2 human partners:{P49959;O60934}

2555 Pathogen[ P14079] interacts with 1 human partners:{O60934}

2556 Pathogen[ P03410] interacts with 2 human partners:{P49959;O60934}

2557 Pathogen[ P0C206] interacts with 2 human partners:{P49959;O60934}

2558 [Cluster 425]GO:0050673+P biological\_process [name] epithelial cell proliferation [def] "The multiplication or reproduction of epithelial cells, resulting in the expansion of a cell population. Epithelial cells make up the epithelium, the covering of internal and external surfaces of the body, including the lining of vessels and other small cavities. It consists of cells joined by small amounts of cementing substances." [ISBN

2559 Pathogen[ Q2Q067] interacts with 1 human partners:{P35680}

2560 Pathogen[ P03346] interacts with 1 human partners:{P35680}

2561 Pathogen[ Q85601] interacts with 1 human partners:{P35680}

2562 Pathogen[ P14079] interacts with 3 human partners:{P35680;Q92542;Q8TCU4}

2563 Pathogen[ P03410] interacts with 3 human partners:{Q8TCU4;P35680;Q92542}

2564 Pathogen[ P0C206] interacts with 3 human partners:{Q8TCU4;Q92542;P35680}

2565 [Cluster 426]GO:0006084+P biological\_process [name] acetyl-CoA metabolic process [def] "The chemical reactions and pathways involving acetyl-CoA, a derivative of coenzyme A in which the sulfhydryl group is acetylated\_ it is a metabolite derived from several pathways (e.g. glycolysis, fatty acid oxidation, amino-acid catabolism) and is further metabolized by the tricarboxylic acid cycle. It is a key intermediate in lipid and terpenoid biosynthesis." [ISBN

2566 Pathogen[ P0C214] interacts with 2 human partners:{O75390;P42765}

2567 Pathogen[ P03346] interacts with 2 human partners:{O75390;P42765}

2568 Pathogen[ P03410] interacts with 2 human partners:{P42765;O75390}

2569 Pathogen[ P0C206] interacts with 1 human partners:{O75390}

2570 [Cluster 427]GO:0002320+P biological\_process [name] lymphoid progenitor cell differentiation [def] "The process in which a precursor cell type acquires the specialized features of a lymphoid progenitor cell. Lymphoid progenitor cells include progenitor cells for any of the lymphoid lineages." [GOC

2571 Pathogen[ Q2Q067] interacts with 1 human partners:{P17947}

2572 Pathogen[ P0C214] interacts with 1 human partners:{P17947}

2573 Pathogen[ P03346] interacts with 1 human partners:{P17947}

2574 Pathogen[ Q85601] interacts with 1 human partners:{P17947}

2575 Pathogen[ P03383] interacts with 1 human partners:{P17947}

2576 Pathogen[ P03410] interacts with 1 human partners:{P17947}

2577 Pathogen[ P14075] interacts with 1 human partners:{P17947}

2578 Pathogen[ P0C206] interacts with 1 human partners:{P17947}

2579 Pathogen[ P03363] interacts with 1 human partners:{P17947}

2580 [Cluster 428]GO:0001775+P biological\_process [name] cell activation [def] "A change in the morphology or behavior of a cell resulting from exposure to an activating factor such as a cellular or soluble ligand." [GOC

2581 Pathogen[ Q2Q067] interacts with 1 human partners:{P25063}

2582 Pathogen[ P0C214] interacts with 1 human partners:{P25063}

2583 Pathogen[ P03346] interacts with 1 human partners:{P25063}

2584 Pathogen[ P14079] interacts with 1 human partners:{P25063}

2585 Pathogen[ P03383] interacts with 1 human partners:{P25063}

2586 Pathogen[ P03410] interacts with 1 human partners:{P25063}

2587 Pathogen[ P14075] interacts with 1 human partners:{P25063}

2588 Pathogen[ P0C206] interacts with 1 human partners:{P25063}

2589 [Cluster 429]GO:0009200+P biological\_process [name] deoxyribonucleoside triphosphate metabolic process [def] "The chemical reactions and pathways involving a deoxyribonucleoside triphosphate, a compound consisting of a nucleobase linked to a deoxyribose sugar esterified with triphosphate on the sugar." [GOC

2590 Pathogen[ Q2Q067] interacts with 1 human partners:{Q7LG56}

2591 Pathogen[ P0C214] interacts with 1 human partners:{Q7LG56}

2592 Pathogen[ P03346] interacts with 1 human partners:{Q7LG56}

2593 Pathogen[ Q85601] interacts with 1 human partners:{Q7LG56}

2594 Pathogen[ P14079] interacts with 1 human partners:{Q7LG56}

2595 Pathogen[ P03410] interacts with 1 human partners:{Q7LG56}

2596 Pathogen[ P0C206] interacts with 1 human partners:{Q7LG56}

2597 [Cluster 430]GO:0002358+P biological\_process [name] B cell homeostatic proliferation [def] "The non-specific expansion of B cell populations within a whole or part of an organism to reach to a total number of B cells which will then remain stable over time in the absence of an external stimulus." [GOC

2598 Pathogen[ Q2Q067] interacts with 1 human partners:{P55895}

2599 Pathogen[ P0C214] interacts with 1 human partners:{P55895}

2600 Pathogen[ P03346] interacts with 1 human partners:{P55895}

2601 Pathogen[ Q85601] interacts with 1 human partners:{P55895}

2602 Pathogen[ P03383] interacts with 1 human partners:{P55895}

2603 Pathogen[ P03410] interacts with 1 human partners:{P55895}

2604 Pathogen[ P14075] interacts with 1 human partners:{P55895}

2605 Pathogen[ P0C206] interacts with 1 human partners:{P55895}

2606 Pathogen[ P03363] interacts with 1 human partners:{P55895}

2607 [Cluster 431]GO:0002023+P biological\_process [name] reduction of food intake in response to dietary excess [def] "The specific actions of an organism that are triggered by the detection of dietary excess and result in a decreased intake of food." [PMID

2608 Pathogen[ P14079] interacts with 1 human partners:{P81277}

2609 Pathogen[ P03410] interacts with 1 human partners:{P81277}

2610 [Cluster 432]GO:0006043+P biological\_process [name] glucosamine catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of glucosamine (2-amino-2-deoxyglucopyranose), an aminodeoxysugar that occurs in combined form in chitin." [GOC

2611 Pathogen[ P14079] interacts with 1 human partners:{P46926}

2612 Pathogen[ P03410] interacts with 1 human partners:{P46926}

2613 Pathogen[ P0C206] interacts with 1 human partners:{P46926}

2614 [Cluster 433]GO:0042663+P biological\_process [name] regulation of endodermal cell fate specification [def] "Any process that mediates the specification of a cell into an endoderm cell." [GOC

2615 Pathogen[ Q2Q067] interacts with 1 human partners:{P35680}

2616 Pathogen[ P03346] interacts with 1 human partners:{P35680}

2617 Pathogen[ Q85601] interacts with 1 human partners:{P35680}

2618 Pathogen[ P14079] interacts with 1 human partners:{P35680}

2619 Pathogen[ P03410] interacts with 1 human partners:{P35680}

2620 Pathogen[ P0C206] interacts with 1 human partners:{P35680}

2621 [Cluster 434]GO:0044458+P

2622 Pathogen[ P03346] interacts with 1 human partners:{Q8N9W5}

2623 Pathogen[ P14079] interacts with 1 human partners:{Q8N9W5}

2624 Pathogen[ P03410] interacts with 1 human partners:{Q8N9W5}

2625 Pathogen[ P14075] interacts with 1 human partners:{Q8N9W5}

2626 Pathogen[ P0C206] interacts with 1 human partners:{Q8N9W5}

2627 Pathogen[ P03363] interacts with 1 human partners:{Q8N9W5}

2628 [Cluster 435]GO:0019395+P biological\_process [name] fatty acid oxidation [def] "The removal of one or more electrons from a fatty acid, with or without the concomitant removal of a proton or protons, by reaction with an electron-accepting substance, by addition of oxygen or by removal of hydrogen." [ISBN

2629 Pathogen[ P0C214] interacts with 1 human partners:{P18054}

2630 Pathogen[ P03346] interacts with 1 human partners:{P18054}

2631 Pathogen[ P14079] interacts with 1 human partners:{O95822}

2632 Pathogen[ P03410] interacts with 1 human partners:{O95822}

2633 [Cluster 436]GO:0036297+P

2634 Pathogen[ Q2Q067] interacts with 2 human partners:{O76064;Q6NZ36}

2635 Pathogen[ P0C214] interacts with 3 human partners:{Q6NZ36;Q8IYW5;O76064}

2636 Pathogen[ P03346] interacts with 3 human partners:{O76064;Q6NZ36;Q8IYW5}

2637 Pathogen[ Q85601] interacts with 3 human partners:{Q6NZ36;O76064;Q8IYW5}

2638 Pathogen[ P14079] interacts with 1 human partners:{Q6NZ36}

2639 Pathogen[ P03410] interacts with 1 human partners:{Q6NZ36}

2640 Pathogen[ P0C206] interacts with 3 human partners:{Q8IYW5;Q6NZ36;O76064}

2641 Pathogen[ P03363] interacts with 2 human partners:{Q8IYW5;Q6NZ36}

2642 [Cluster 437]GO:0021587+P biological\_process [name] cerebellum morphogenesis [def] "The process in which the anatomical structure of the cerebellum is generated and organized. The cerebellum is the portion of the brain in the back of the head between the cerebrum and the pons. The cerebellum controls balance for walking and standing, modulates the force and range of movement and is involved in the learning of motor skills." [GO\_REF



2643 Pathogen[ P0C214] interacts with 1 human partners:{P35520}

2644 Pathogen[ P14079] interacts with 1 human partners:{P54826}

2645 Pathogen[ P03410] interacts with 1 human partners:{P54826}

2646 Pathogen[ P14075] interacts with 1 human partners:{P54826}

2647 Pathogen[ P0C206] interacts with 1 human partners:{P54826}

2648 [Cluster 438]GO:0015870+P biological\_process [name] acetylcholine transport [def] "The directed movement of acetylcholine into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore. Acetylcholine is an acetic acid ester of the organic base choline and functions as a neurotransmitter, released at the synapses of parasympathetic nerves and at neuromuscular junctions." [GOC

2649 Pathogen[ P0C214] interacts with 1 human partners:{P36404}

2650 Pathogen[ P03346] interacts with 1 human partners:{P36404}

2651 [Cluster 439]GO:0043618+P biological\_process [name] regulation of transcription from RNA polymerase II promoter in response to stress [def] "Any process that modulates the frequency, rate or extent of transcription from an RNA polymerase II promoter as a result of a stimulus indicating the organism is under stress. The stress is usually, but not necessarily, exogenous (e.g. temperature, humidity, ionizing radiation)." [GOC

2652 Pathogen[ P14079] interacts with 1 human partners:{P15941}

2653 Pathogen[ P03410] interacts with 1 human partners:{P15941}

2654 [Cluster 440]GO:0070234+P biological\_process [name] positive regulation of T cell apoptosis [def] "Any process that activates or increases the frequency, rate or extent of T cell death by apoptosis." [GOC

2655 Pathogen[ P14079] interacts with 1 human partners:{A8MUM7}

2656 [Cluster 441]GO:0006929+P biological\_process [name] substrate-dependent cell migration [def] "The orderly movement of a cell from one site to another along a substrate such as the extracellular matrix\_ the migrating cell forms a protrusion that attaches to the substrate." [ISBN

2657 Pathogen[ P03346] interacts with 1 human partners:{Q92625}

2658 Pathogen[ P0C206] interacts with 1 human partners:{Q92625}

2659 Pathogen[ P03363] interacts with 1 human partners:{Q92625}

2660 [Cluster 442]GO:0046078+P biological\_process [name] dUMP metabolic process [def] "The chemical reactions and pathways involving dUMP, deoxyuridine (5'-)monophosphate (2'-deoxyuridine 5'-phosphate)." [GOC

2661 Pathogen[ Q2Q067] interacts with 1 human partners:{P04818}

2662 Pathogen[ P0C214] interacts with 1 human partners:{P04818}

2663 Pathogen[ P14079] interacts with 1 human partners:{P04818}

2664 Pathogen[ P03410] interacts with 1 human partners:{P04818}

2665 Pathogen[ P0C206] interacts with 1 human partners:{P04818}

2666 [Cluster 443]GO:0022038+P biological\_process [name] corpus callosum development [def] "The process whose specific outcome is the progression of the corpus callosum over time, from its formation to the mature structure. The corpus callosum is a thick bundle of nerve fibers comprising a commissural plate connecting the two cerebral hemispheres. It consists of contralateral axon projections that provide communication between the right and left cerebral hemispheres." [GO\_REF

2667 Pathogen[ P03346] interacts with 1 human partners:{Q68CZ1}

2668 Pathogen[ P14079] interacts with 1 human partners:{Q68CZ1}

2669 Pathogen[ P03410] interacts with 1 human partners:{Q68CZ1}

2670 [Cluster 444]GO:0060528+P biological\_process [name] secretory columnal luminal epithelial cell differentiation involved in prostate glandular acinus development [def] "The process in which a relatively unspecialized epithelial cell acquires specialized features of a secretory columnal luminal epithelial cell of the prostate." [GOC

2671 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BQA1}

2672 Pathogen[ P03346] interacts with 1 human partners:{Q9BQA1}

2673 Pathogen[ Q85601] interacts with 1 human partners:{Q9BQA1}

2674 Pathogen[ P14079] interacts with 1 human partners:{Q9BQA1}

2675 Pathogen[ P03383] interacts with 1 human partners:{Q9BQA1}

2676 Pathogen[ P03410] interacts with 1 human partners:{Q9BQA1}

2677 Pathogen[ P14075] interacts with 1 human partners:{Q9BQA1}

2678 Pathogen[ P0C206] interacts with 1 human partners:{Q9BQA1}

2679 Pathogen[ P03363] interacts with 1 human partners:{Q9BQA1}

2680 [Cluster 445]GO:0032237+P biological\_process [name] activation of store-operated calcium channel activity [def] "A process that initiates the activity of an inactive store-operated calcium channel." [GOC

2681 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BSW2}

2682 Pathogen[ P0C214] interacts with 1 human partners:{Q9BSW2}

2683 Pathogen[ P03346] interacts with 1 human partners:{Q9BSW2}

2684 Pathogen[ Q85601] interacts with 1 human partners:{Q9BSW2}

2685 Pathogen[ P14079] interacts with 1 human partners:{Q9BSW2}

2686 Pathogen[ P03383] interacts with 1 human partners:{Q9BSW2}

2687 Pathogen[ P14075] interacts with 1 human partners:{Q9BSW2}

2688 Pathogen[ P0C206] interacts with 1 human partners:{Q9BSW2}

2689 Pathogen[ P03363] interacts with 1 human partners:{Q9BSW2}

2690 [Cluster 446]GO:0046605+P biological\_process [name] regulation of centrosome cycle [def] "Any process that modulates the frequency, rate or extent of the centrosome cycle, the processes of centrosome duplication and separation." [GOC

2691 Pathogen[ P03346] interacts with 1 human partners:{014965}

2692 Pathogen[ Q85601] interacts with 1 human partners:{014965}

2693 Pathogen[ P14079] interacts with 1 human partners:{014965}

2694 Pathogen[ P03383] interacts with 1 human partners:{014965}

2695 Pathogen[ P03410] interacts with 2 human partners:{Q9Y6G9;014965}

2696 Pathogen[ P14075] interacts with 1 human partners:{014965}

2697 Pathogen[ P0C206] interacts with 2 human partners:{Q9Y6G9;014965}

2698 [Cluster 447]GO:0071107+P biological\_process [name] response to parathyroid hormone stimulus [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a parathyroid hormone stimulus." [GOC

2699 Pathogen[ Q2Q067] interacts with 2 human partners:{P11388;Q99966}

2700 Pathogen[ P0C214] interacts with 2 human partners:{Q99966;P11388}

2701 Pathogen[ P03346] interacts with 2 human partners:{Q99966;P11388}

2702 Pathogen[ Q85601] interacts with 2 human partners:{Q99966;P11388}

2703 Pathogen[ P14079] interacts with 2 human partners:{P11388;Q99966}

2704 Pathogen[ P03410] interacts with 2 human partners:{P11388;Q99966}

2705 Pathogen[ P0C206] interacts with 2 human partners:{Q99966;P11388}

2706 [Cluster 448]GO:0006991+P biological\_process [name] response to sterol depletion [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a stimulus indicating deprivation of sterols. Sterols are a group of steroids characterized by the presence of one or more hydroxyl groups and a hydrocarbon side-chain in the molecule." [GOC

2707 Pathogen[ P14079] interacts with 2 human partners:{Q9Y5U4;015503}

2708 Pathogen[ P03410] interacts with 2 human partners:{Q9Y5U4;015503}

2709 [Cluster 449]GO:0035725+P biological\_process [name] sodium ion transmembrane transport [def] "A process in which a sodium ion is transported from one side of a membrane to the other by means of some agent such as a transporter or pore." [GOC

2710 Pathogen[ P03346] interacts with 1 human partners:{P48553}

2711 Pathogen[ P14079] interacts with 1 human partners:{P48553}

2712 Pathogen[ P03410] interacts with 1 human partners:{P48553}

2713 Pathogen[ P0C206] interacts with 1 human partners:{P48553}

2714 Pathogen[ P03363] interacts with 1 human partners:{P48553}

2715 [Cluster 450]GO:0032747+P biological\_process [name] positive regulation of interleukin-23 production [def] "Any process that activates or increases the frequency, rate, or extent of interleukin-23 production." [GOC

2716 Pathogen[ P14079] interacts with 2 human partners:{P04141;Q99836}

2717 Pathogen[ P03410] interacts with 1 human partners:{P04141}

2718 [Cluster 451]GO:1900224+P

2719 Pathogen[ Q2Q067] interacts with 1 human partners:{Q15796}

2720 Pathogen[ P0C214] interacts with 1 human partners:{Q15796}

2721 Pathogen[ P03346] interacts with 1 human partners:{Q15796}

2722 Pathogen[ Q85601] interacts with 1 human partners:{Q15796}

2723 Pathogen[ P03383] interacts with 1 human partners:{Q15796}

2724 Pathogen[ P03410] interacts with 1 human partners:{Q15796}

2725 Pathogen[ P14075] interacts with 1 human partners:{Q15796}

2726 Pathogen[ P0C206] interacts with 1 human partners:{Q15796}

2727 Pathogen[ P03363] interacts with 1 human partners:{Q15796}

2728 [Cluster 452]GO:0060160+P biological\_process [name] negative regulation of dopamine receptor signaling pathway [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of dopamine receptor protein signaling pathway activity. A dopamine receptor signaling pathway is the series of molecular signals generated as a consequence of a dopamine receptor binding to one of its physiological ligands." [GOC

2729 Pathogen[ P14079] interacts with 1 human partners:{075781}

2730 Pathogen[ P03410] interacts with 1 human partners:{075781}

2731 [Cluster 453]GO:0051223+P biological\_process [name] regulation of protein transport [def] "Any process that modulates the frequency, rate or extent of the directed movement of a protein into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore." [GOC

2732 Pathogen[ P03346] interacts with 1 human partners:{Q96A65}

2733 Pathogen[ Q85601] interacts with 1 human partners:{Q96A65}

2734 Pathogen[ P14079] interacts with 1 human partners:{Q96A65}

2735 Pathogen[ P03410] interacts with 1 human partners:{Q96A65}

2736 Pathogen[ P0C206] interacts with 1 human partners:{Q96A65}

2737 Pathogen[ P03363] interacts with 1 human partners:{Q96A65}

2738 [Cluster 454]GO:0010611+P biological\_process [name] regulation of cardiac muscle hypertrophy [def] "Any process that modulates the rate, frequency or extent of the enlargement or overgrowth of all or part of the heart due to an increase in size (not length) of individual cardiac muscle fibers, without cell division." [GOC

2739 Pathogen[ P03346] interacts with 1 human partners:{Q9NZU5}

2740 Pathogen[ Q85601] interacts with 1 human partners:{Q9NZU5}

2741 Pathogen[ P14079] interacts with 1 human partners:{Q9NZU5}

2742 Pathogen[ P0C206] interacts with 1 human partners:{Q9NZU5}

2743 Pathogen[ P03363] interacts with 1 human partners:{Q9NZU5}

2744 [Cluster 455]GO:0045769+P biological\_process [name] negative regulation of asymmetric

cell division [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of asymmetric cell division." [GOC

2745 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8IZT6}

2746 Pathogen[ P0C214] interacts with 1 human partners:{Q8IZT6}

2747 Pathogen[ P03346] interacts with 1 human partners:{Q8IZT6}

2748 Pathogen[ Q85601] interacts with 1 human partners:{Q8IZT6}

2749 Pathogen[ P14079] interacts with 1 human partners:{Q8IZT6}

2750 Pathogen[ P03410] interacts with 1 human partners:{Q8IZT6}

2751 Pathogen[ P0C206] interacts with 1 human partners:{Q8IZT6}

2752 Pathogen[ P03363] interacts with 1 human partners:{Q8IZT6}

2753 [Cluster 456]GO:0030643+P biological\_process [name] cellular phosphate ion homeostasis [def] "Any process involved in the maintenance of an internal steady state of phosphate ions at the level of a cell." [GOC

2754 Pathogen[ P03346] interacts with 1 human partners:{075603}

2755 [Cluster 457]GO:0042138+P biological\_process [name] meiotic DNA double-strand break formation [def] "The cell cycle process in which double-strand breaks are generated at defined hotspots throughout the genome during meiosis I. This results in the initiation of meiotic recombination." [GOC

2756 Pathogen[ P14079] interacts with 2 human partners:{Q7Z7C7;Q86X24}

2757 Pathogen[ P03410] interacts with 1 human partners:{Q7Z7C7}

2758 Pathogen[ P14075] interacts with 1 human partners:{Q7Z7C7}

2759 Pathogen[ P0C206] interacts with 1 human partners:{Q7Z7C7}

2760 [Cluster 458]GO:0043576+P biological\_process [name] regulation of respiratory gaseous exchange [def] "Any process that modulates the frequency, rate or extent of the process of gaseous exchange between an organism and its environment." [GOC

2761 Pathogen[ Q2Q067] interacts with 1 human partners:{014813}

2762 Pathogen[ P0C214] interacts with 1 human partners:{014813}

2763 Pathogen[ P03346] interacts with 1 human partners:{014813}

2764 Pathogen[ Q85601] interacts with 1 human partners:{014813}

2765 Pathogen[ P14079] interacts with 1 human partners:{014813}

2766 Pathogen[ P03410] interacts with 1 human partners:{014813}

2767 Pathogen[ P0C206] interacts with 1 human partners:{014813}

2768 Pathogen[ P03363] interacts with 1 human partners:{014813}

2769 [Cluster 459]GO:0097031+P biological\_process [name] mitochondrial respiratory chain complex I biogenesis [def] "The biogenesis of a mitochondrial respiratory chain complex I, a protein complex located in the mitochondrial inner membrane that forms part of the mitochondrial respiratory chain. Includes the synthesis of constituent proteins and their aggregation, arrangement and bonding together." [GOC

2770 Pathogen[ P14079] interacts with 1 human partners:{Q15070}

2771 Pathogen[ P03410] interacts with 1 human partners:{Q15070}

2772 Pathogen[ P14075] interacts with 1 human partners:{Q15070}

2773 Pathogen[ P0C206] interacts with 1 human partners:{Q15070}

2774 [Cluster 460]GO:0035611+P biological\_process [name] protein branching point deglutamylation [def] "The removal of a branching point glutamate residue. A branching point glutamate connects a glutamate side chain to a gene-encoded glutamate residue." [GOC

2775 Pathogen[ P14079] interacts with 1 human partners:{Q8NDL9}

2776 Pathogen[ P0C206] interacts with 1 human partners:{Q8NDL9}

2777 [Cluster 461]GO:2000611+P biological\_process [name] positive regulation of thyroid hormone generation [def] "Any process that activates or increases the frequency, rate or extent of thyroid hormone generation." [GOC

2778 Pathogen[ P03346] interacts with 1 human partners:{Q06710}

2779 [Cluster 462]GO:0042104+P biological\_process [name] positive regulation of activated T cell proliferation [def] "Any process that activates or increases the rate or extent of activated T cell proliferation." [GOC

2780 Pathogen[ Q2Q067] interacts with 1 human partners:{P25063}

2781 Pathogen[ P0C214] interacts with 1 human partners:{P25063}

2782 Pathogen[ P03346] interacts with 1 human partners:{P25063}

2783 Pathogen[ P14079] interacts with 1 human partners:{P25063}

2784 Pathogen[ P03383] interacts with 1 human partners:{P25063}

2785 Pathogen[ P03410] interacts with 1 human partners:{P25063}

2786 Pathogen[ P14075] interacts with 1 human partners:{P25063}

2787 Pathogen[ P0C206] interacts with 1 human partners:{P25063}

2788 [Cluster 463]GO:2001241+P biological\_process [name] positive regulation of extrinsic apoptotic signaling pathway in absence of ligand [def] "Any process that activates or increases the frequency, rate or extent of extrinsic apoptotic signaling pathway in absence of ligand." [GOC

2789 Pathogen[ Q2Q067] interacts with 1 human partners:{P30154}

2790 Pathogen[ P0C214] interacts with 1 human partners:{P30154}

2791 Pathogen[ P03346] interacts with 1 human partners:{P30154}

2792 Pathogen[ Q85601] interacts with 1 human partners:{P30154}

2793 Pathogen[ P14079] interacts with 1 human partners:{P30154}

2794 Pathogen[ P03410] interacts with 1 human partners:{P30154}

2795 Pathogen[ P0C206] interacts with 1 human partners:{P30154}

2796 Pathogen[ P03363] interacts with 1 human partners:{P30154}

2797 [Cluster 464]GO:0048859+P biological\_process [name] formation of anatomical boundary

[def] "The process in which the limits of an anatomical structure are generated. An anatomical structure is any biological entity that occupies space and is distinguished from its surroundings. Anatomical structures can be macroscopic such as a carpel, or microscopic such as an acrosome." [GO\_REF

2798 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13485}

2799 Pathogen[ P0C214] interacts with 1 human partners:{Q13485}

2800 Pathogen[ P03346] interacts with 1 human partners:{Q13485}

2801 Pathogen[ Q85601] interacts with 1 human partners:{Q13485}

2802 Pathogen[ P03383] interacts with 1 human partners:{Q13485}

2803 Pathogen[ P03410] interacts with 1 human partners:{Q13485}

2804 Pathogen[ P14075] interacts with 1 human partners:{Q13485}

2805 Pathogen[ P0C206] interacts with 1 human partners:{Q13485}

2806 Pathogen[ P03363] interacts with 1 human partners:{Q13485}

2807 [Cluster 465]GO:0060319+P biological\_process [name] primitive erythrocyte differentiation [def] "Erythrocyte differentiation which occurs as part of the process of primitive hemopoiesis." [GOC

2808 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8IX07}

2809 Pathogen[ P0C214] interacts with 1 human partners:{Q8IX07}

2810 Pathogen[ P03346] interacts with 1 human partners:{Q8IX07}

2811 Pathogen[ Q85601] interacts with 1 human partners:{Q8IX07}

2812 Pathogen[ P14079] interacts with 1 human partners:{Q8IX07}

2813 Pathogen[ P03410] interacts with 1 human partners:{Q8IX07}

2814 Pathogen[ P0C206] interacts with 1 human partners:{Q8IX07}

2815 [Cluster 466]GO:0022028+P biological\_process [name] tangential migration from the subventricular zone to the olfactory bulb [def] "The migration of cells in the telencephalon from the subventricular zone to the olfactory bulb in which cells move orthogonally to the direction of radial migration and do not use radial glial cell processes as substrates for migration." [GO\_REF

2816 Pathogen[ Q2Q067] interacts with 1 human partners:{P11831}

2817 Pathogen[ P0C214] interacts with 1 human partners:{P11831}

2818 Pathogen[ P03346] interacts with 1 human partners:{P11831}

2819 Pathogen[ Q85601] interacts with 1 human partners:{P11831}

2820 Pathogen[ P03383] interacts with 1 human partners:{P11831}

2821 Pathogen[ P03410] interacts with 1 human partners:{P11831}

2822 Pathogen[ P14075] interacts with 1 human partners:{P11831}

2823 Pathogen[ P0C206] interacts with 1 human partners:{P11831}

2824 Pathogen[ P03363] interacts with 1 human partners:{P11831}

2825 [Cluster 467]GO:0032077+P biological\_process [name] positive regulation of deoxyribonuclease activity [def] "Any process that activates or increases the frequency, rate or extent of deoxyribonuclease activity, the hydrolysis of ester linkages within deoxyribonucleic acid." [GOC

2826 Pathogen[ Q2Q067] interacts with 1 human partners:{P12004}

2827 Pathogen[ P03346] interacts with 1 human partners:{P12004}

2828 Pathogen[ Q85601] interacts with 1 human partners:{P12004}

2829 Pathogen[ P14079] interacts with 1 human partners:{P12004}

2830 Pathogen[ P03410] interacts with 1 human partners:{P12004}

2831 Pathogen[ P0C206] interacts with 1 human partners:{P12004}

2832 [Cluster 468]GO:0006482+P biological\_process [name] protein demethylation [def] "The removal of a methyl group, from a protein amino acid. A methyl group is derived from methane by the removal of a hydrogen atom." [GOC

2833 Pathogen[ Q2Q067] interacts with 1 human partners:{O75151}

2834 Pathogen[ P0C214] interacts with 1 human partners:{O75151}

2835 Pathogen[ P03346] interacts with 1 human partners:{O75151}

2836 Pathogen[ Q85601] interacts with 1 human partners:{O75151}

2837 Pathogen[ P14079] interacts with 1 human partners:{O75151}

2838 Pathogen[ P03383] interacts with 1 human partners:{O75151}

2839 Pathogen[ P03410] interacts with 1 human partners:{O75151}

2840 Pathogen[ P14075] interacts with 1 human partners:{O75151}

2841 Pathogen[ P0C206] interacts with 1 human partners:{O75151}

2842 [Cluster 469]GO:0045004+P biological\_process [name] DNA replication proofreading [def] "Correction of replication errors by DNA polymerase using a 3'-5' exonuclease activity." [GOC

2843 Pathogen[ P14079] interacts with 1 human partners:{Q5QGS0}

2844 Pathogen[ P03410] interacts with 1 human partners:{Q5QGS0}

2845 [Cluster 470]GO:0072369+P biological\_process [name] regulation of lipid transport by positive regulation of transcription from RNA polymerase II promoter [def] "Any process that modulates the frequency, rate or extent of lipid transport by activating or increasing the frequency, rate or extent of transcription from an RNA polymerase II promoter." [GOC

2846 Pathogen[ Q2Q067] interacts with 1 human partners:{P61978}

2847 Pathogen[ P03346] interacts with 1 human partners:{P61978}

2848 Pathogen[ Q85601] interacts with 1 human partners:{P61978}

2849 Pathogen[ P14079] interacts with 1 human partners:{P61978}

2850 Pathogen[ P03383] interacts with 1 human partners:{P61978}

2851 Pathogen[ P03410] interacts with 1 human partners:{P61978}

2852 Pathogen[ P14075] interacts with 1 human partners:{P61978}

2853 Pathogen[ P0C206] interacts with 1 human partners:{P61978}

2854 Pathogen[ P03363] interacts with 1 human partners:{P61978}

2855 [Cluster 471]GO:0017157+P biological\_process [name] regulation of exocytosis [def] "Any process that modulates the frequency, rate or extent of exocytosis." [GOC

2856 Pathogen[ P03363] interacts with 1 human partners:{Q99719}

2857 [Cluster 472]GO:0070863+P biological\_process [name] positive regulation of protein exit from endoplasmic reticulum [def] "Any process that activates or increases the frequency, rate or extent of directed movement of proteins from the endoplasmic reticulum." [GOC

2858 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96JE7}

2859 Pathogen[ P0C214] interacts with 1 human partners:{Q96JE7}

2860 Pathogen[ P03346] interacts with 1 human partners:{Q96JE7}

2861 Pathogen[ Q85601] interacts with 1 human partners:{Q96JE7}

2862 Pathogen[ P14079] interacts with 3 human partners:{Q3MIR4;Q96JE7;Q9NV96}

2863 Pathogen[ P03383] interacts with 1 human partners:{Q96JE7}

2864 Pathogen[ P03410] interacts with 3 human partners:{Q96JE7;Q9NV96;Q3MIR4}

2865 Pathogen[ P14075] interacts with 1 human partners:{Q96JE7}

2866 Pathogen[ P0C206] interacts with 1 human partners:{Q96JE7}

2867 [Cluster 473]GO:0014895+P biological\_process [name] smooth muscle hypertrophy [def] "The enlargement or overgrowth of all or part of an organ due to an increase in size of its smooth muscle cells without cell division. Physiological hypertrophy is a normal process during development, and can also occur in mature structures on demand. In the uterus, smooth muscle cells undergo hypertrophy during pregnancy." [GOC

2868 Pathogen[ P14079] interacts with 1 human partners:{P13498}

2869 [Cluster 474]GO:0009113+P biological\_process [name] purine base biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of purine bases, one of the two classes of nitrogen-containing ring compounds found in DNA and RNA, which include adenine and guanine." [GOC

2870 Pathogen[ Q2Q067] interacts with 1 human partners:{P34896}

2871 Pathogen[ P0C214] interacts with 1 human partners:{P34896}

2872 Pathogen[ Q85601] interacts with 1 human partners:{P34896}

2873 Pathogen[ P14079] interacts with 3 human partners:{P22234;P49915;P34896}

2874 Pathogen[ P03383] interacts with 1 human partners:{P34896}

2875 Pathogen[ P03410] interacts with 3 human partners:{P49915;P22234;P34896}

2876 Pathogen[ P14075] interacts with 1 human partners:{P34896}

2877 Pathogen[ P0C206] interacts with 1 human partners:{P34896}

2878 [Cluster 475]GO:0007006+P biological\_process [name] mitochondrial membrane organization [def] "A process that is carried out at the cellular level which results in the assembly, arrangement of constituent parts, or disassembly of a mitochondrial membrane, either of the lipid bilayer surrounding a mitochondrion." [GOC

2879 Pathogen[ P0C214] interacts with 1 human partners:{Q3ZCQ8}

2880 Pathogen[ P03346] interacts with 2 human partners:{Q3ZCQ8;P50542}

2881 Pathogen[ Q85601] interacts with 1 human partners:{Q3ZCQ8}

2882 Pathogen[ P14079] interacts with 2 human partners:{Q3ZCQ8;P50542}

2883 Pathogen[ P03410] interacts with 3 human partners:{Q3ZCQ8;P50542;Q9UBY8}

2884 Pathogen[ P0C206] interacts with 2 human partners:{P50542;Q3ZCQ8}

2885 Pathogen[ P03363] interacts with 1 human partners:{Q3ZCQ8}

2886 [Cluster 476]GO:0071110+P biological\_process [name] histone biotinylation [def] "The modification of a histone by the addition of a biotinyl group." [GOC

2887 Pathogen[ P0C214] interacts with 1 human partners:{P50747}

2888 [Cluster 477]GO:0070252+P biological\_process [name] actin-mediated cell contraction [def] "The actin filament-based process in which cytoplasmic actin filaments slide past one another resulting in contraction of all or part of the cell body." [GOC

2889 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NVD7}

2890 Pathogen[ P0C214] interacts with 1 human partners:{Q9NVD7}

2891 Pathogen[ P03346] interacts with 1 human partners:{Q9NVD7}

2892 Pathogen[ Q85601] interacts with 1 human partners:{Q9NVD7}

2893 Pathogen[ P14079] interacts with 1 human partners:{Q9NVD7}

2894 Pathogen[ P03410] interacts with 1 human partners:{Q9NVD7}

2895 Pathogen[ P0C206] interacts with 1 human partners:{Q9NVD7}

2896 Pathogen[ P03363] interacts with 1 human partners:{Q9NVD7}

2897 [Cluster 478]GO:0046121+P biological\_process [name] deoxyribonucleoside catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of any one of a family of organic molecules consisting of a purine or pyrimidine base covalently bonded to a sugar deoxyribose (a deoxyribonucleoside)." [GOC

2898 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y315}

2899 Pathogen[ P14079] interacts with 1 human partners:{Q9Y315}

2900 Pathogen[ P03410] interacts with 1 human partners:{Q9Y315}

2901 Pathogen[ P14075] interacts with 1 human partners:{Q9Y315}

2902 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y315}

2903 Pathogen[ P03363] interacts with 1 human partners:{Q9Y315}

2904 [Cluster 479]GO:0035356+P biological\_process [name] cellular triglyceride homeostasis [def] "Any process involved in the maintenance of an internal steady state of triglyceride within a cell or between a cell and its external environment." [GOC

2905 Pathogen[ P14079] interacts with 1 human partners:{Q8N6M3}

2906 Pathogen[ P03410] interacts with 1 human partners:{Q8N6M3}

2907 Pathogen[ P14075] interacts with 1 human partners:{Q8N6M3}

2908 Pathogen[ POC206] interacts with 1 human partners:{Q8N6M3}

2909 [Cluster 480]GO:0090249+P biological\_process [name] regulation of cell motility involved in somitogenic axis elongation [def] "Any process that modulates the frequency, rate, or extent of the controlled self-propelled movement of a cell that contributes to somitogenic axis elongation." [GOC

2910 Pathogen[ P03346] interacts with 2 human partners:{Q969G9;Q06190}

2911 Pathogen[ P14079] interacts with 1 human partners:{Q06190}

2912 Pathogen[ P03410] interacts with 2 human partners:{Q06190;Q969G9}

2913 Pathogen[ POC206] interacts with 2 human partners:{Q06190;Q969G9}

2914 Pathogen[ P03363] interacts with 2 human partners:{Q06190;Q969G9}

2915 [Cluster 481]GO:0051247+P biological\_process [name] positive regulation of protein metabolic process [def] "Any process that activates or increases the frequency, rate or extent of the chemical reactions and pathways involving a protein." [GOC

2916 Pathogen[ P03346] interacts with 2 human partners:{Q9Y5W3;P58546}

2917 Pathogen[ P14079] interacts with 2 human partners:{Q9Y5W3;Q13164}

2918 [Cluster 482]GO:0097113+P biological\_process [name] alpha-amino-3-hydroxy-5-methyl-4-isoxazole propionate receptor clustering [def] "The receptor clustering process in which alpha-amino-3-hydroxy-5-methyl-4-isoxazole propionate (AMPA) receptors are localized to distinct domains in the cell membrane." [GOC

2919 Pathogen[ Q2Q067] interacts with 1 human partners:{P78352}

2920 Pathogen[ POC214] interacts with 1 human partners:{P78352}

2921 Pathogen[ P03346] interacts with 1 human partners:{P78352}

2922 Pathogen[ Q85601] interacts with 1 human partners:{P78352}

2923 Pathogen[ P03383] interacts with 1 human partners:{P78352}

2924 Pathogen[ P03410] interacts with 1 human partners:{P78352}

2925 Pathogen[ P14075] interacts with 1 human partners:{P78352}

2926 Pathogen[ POC206] interacts with 1 human partners:{P78352}

2927 Pathogen[ P03363] interacts with 1 human partners:{P78352}

2928 [Cluster 483]GO:0021529+P biological\_process [name] spinal cord oligodendrocyte cell differentiation [def] "The process in which neuroepithelial cells in the neural tube acquire specialized structural and/or functional features of oligodendrocytes. Oligodendrocytes are non-neuronal cells. The primary function of oligodendrocytes is the myelination of nerve axons in the central nervous system. Differentiation includes the processes involved in commitment of a cell to a specific fate." [GO\_REF

2929 Pathogen[ P03346] interacts with 2 human partners:{O95096;Q13516}

2930 Pathogen[ P03363] interacts with 1 human partners:{Q13516}

2931 [Cluster 484]GO:0032439+P biological\_process [name] endosome localization [def] "Any process in which endosomes are transported to, and/or maintained in, a specific location within the cell." [GOC

2932 Pathogen[ P14079] interacts with 1 human partners:{Q6IAA8}

2933 Pathogen[ P03410] interacts with 1 human partners:{Q6IAA8}

2934 [Cluster 485]GO:0055094+P biological\_process [name] response to lipoprotein stimulus [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a lipoprotein stimulus." [GOC

2935 Pathogen[ Q2Q067] interacts with 1 human partners:{P29474}

2936 Pathogen[ POC214] interacts with 1 human partners:{P29474}

2937 Pathogen[ P03346] interacts with 1 human partners:{P29474}

2938 Pathogen[ Q85601] interacts with 1 human partners:{P29474}

2939 Pathogen[ P03383] interacts with 1 human partners:{P29474}

2940 Pathogen[ P03410] interacts with 1 human partners:{P29474}

2941 Pathogen[ P14075] interacts with 1 human partners:{P29474}

2942 Pathogen[ POC206] interacts with 1 human partners:{P29474}

2943 Pathogen[ P03363] interacts with 1 human partners:{P29474}

2944 [Cluster 486]GO:0051257+P biological\_process [name] spindle midzone assembly involved in meiosis [def] "The formation of the spindle midzone, the area in the center of the spindle where the spindle microtubules from opposite poles overlap, as a part of the process of meiosis." [GOC

2945 Pathogen[ POC214] interacts with 1 human partners:{P40692}

2946 Pathogen[ Q85601] interacts with 1 human partners:{P40692}

2947 Pathogen[ P14079] interacts with 1 human partners:{P40692}

2948 Pathogen[ P03410] interacts with 1 human partners:{P40692}

2949 Pathogen[ POC206] interacts with 1 human partners:{P40692}

2950 [Cluster 487]GO:0001823+P biological\_process [name] mesonephros development [def] "The process whose specific outcome is the progression of the mesonephros over time, from its formation to the mature structure. In mammals, the mesonephros is the second of the three embryonic kidneys to be established and exists only transiently. In lower vertebrates such as fish and amphibia, the mesonephros will form the mature kidney." [GOC

2951 Pathogen[ Q2Q067] interacts with 1 human partners:{Q05516}

2952 Pathogen[ POC214] interacts with 1 human partners:{Q05516}

2953 Pathogen[ P03346] interacts with 2 human partners:{Q06710;Q05516}

2954 Pathogen[ Q85601] interacts with 1 human partners:{Q05516}

2955 Pathogen[ P14079] interacts with 1 human partners:{Q05516}

2956 Pathogen[ P03383] interacts with 1 human partners:{Q05516}

2957 Pathogen[ P14075] interacts with 1 human partners:{Q05516}

2958 Pathogen[ P0C206] interacts with 1 human partners:{Q05516}

2959 Pathogen[ P03363] interacts with 1 human partners:{Q05516}

2960 [Cluster 488]GO:0072249+P biological\_process [name] metanephric glomerular visceral epithelial cell development [def] "The process whose specific outcome is the progression of a metanephric glomerular visceral epithelial cell over time, from its formation to the mature structure. A metanephric glomerular visceral epithelial cell is a specialized epithelial cell that contains \"feet\" that interdigitate with the \"feet\" of other glomerular epithelial cells in the metanephros." [GOC

2961 Pathogen[ P03346] interacts with 1 human partners:{Q9NP85}

2962 Pathogen[ P14079] interacts with 1 human partners:{Q9NP85}

2963 Pathogen[ P03410] interacts with 1 human partners:{Q9NP85}

2964 Pathogen[ P0C206] interacts with 1 human partners:{Q9NP85}

2965 [Cluster 489]GO:0070383+P biological\_process [name] DNA cytosine deamination [def] "The removal of an amino group from a cytosine residue in DNA, forming a uracil residue." [GOC

2966 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9HC16}

2967 Pathogen[ P0C214] interacts with 1 human partners:{Q9HC16}

2968 Pathogen[ Q85601] interacts with 1 human partners:{Q9HC16}

2969 Pathogen[ P14079] interacts with 2 human partners:{P31941;Q9HC16}

2970 Pathogen[ P03410] interacts with 3 human partners:{Q9HC16;P31941;Q6NTF7}

2971 Pathogen[ P0C206] interacts with 3 human partners:{P31941;Q6NTF7;Q9HC16}

2972 [Cluster 490]GO:0021920+P biological\_process [name] regulation of transcription from RNA polymerase II promoter involved in spinal cord association neuron specification [def] "Any process that modulates the frequency, rate or extent of transcription from an RNA polymerase II promoter that contributes to the commitment of neuronal precursors to association neurons in the dorsal spinal cord." [GO\_REF

2973 Pathogen[ P03346] interacts with 1 human partners:{P52954}

2974 [Cluster 491]GO:0046491+P biological\_process [name] L-methylmalonyl-CoA metabolic process [def] "The chemical reactions and pathways involving L-methylmalonyl-CoA, the L-enantiomer of 2-carboxypropanoyl-CoA. S-methylmalonyl-CoA is an intermediate in the beta oxidation of odd-numbered fatty acids in animals." [GOC

2975 Pathogen[ P0C214] interacts with 1 human partners:{Q96PE7}

2976 Pathogen[ P03346] interacts with 1 human partners:{Q96PE7}

2977 Pathogen[ P14079] interacts with 1 human partners:{Q96PE7}

2978 Pathogen[ P03410] interacts with 1 human partners:{Q96PE7}

2979 Pathogen[ P0C206] interacts with 1 human partners:{Q96PE7}

2980 [Cluster 492]GO:0006198+P biological\_process [name] cAMP catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of the nucleotide cAMP (cyclic AMP, adenosine 3',5'-cyclophosphate)." [ISBN

2981 Pathogen[ Q2Q067] interacts with 1 human partners:{P27815}

2982 Pathogen[ P0C214] interacts with 2 human partners:{P27815;Q07343}

2983 Pathogen[ P03346] interacts with 1 human partners:{P27815}

2984 Pathogen[ Q85601] interacts with 1 human partners:{P27815}

2985 Pathogen[ P14079] interacts with 1 human partners:{P27815}

2986 Pathogen[ P03410] interacts with 1 human partners:{P27815}

2987 Pathogen[ P0C206] interacts with 1 human partners:{P27815}

2988 Pathogen[ P03363] interacts with 1 human partners:{P27815}

2989 [Cluster 493]GO:0009234+P biological\_process [name] menaquinone biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of any of the menaquinones, any of the quinone-derived compounds synthesized by intestinal bacteria. Structurally, menaquinones consist of a methylated naphthoquinone ring structure and side chains composed of a variable number of unsaturated isoprenoid residues. Menaquinones have vitamin K activity and are known as vitamin K2." [GOC

2990 Pathogen[ P14079] interacts with 1 human partners:{Q9Y5Z9}

2991 Pathogen[ P03410] interacts with 1 human partners:{Q9Y5Z9}

2992 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y5Z9}

2993 [Cluster 494]GO:0021592+P biological\_process [name] fourth ventricle development [def] "The process whose specific outcome is the progression of the fourth ventricle over time, from its formation to the mature structure. The fourth ventricle is an irregularly shaped cavity in the rhombencephalon, between the medulla oblongata, the pons, and the isthmus in front, and the cerebellum behind. It is continuous with the central canal of the cord below and with the cerebral aqueduct above, and through its lateral and median apertures it communicates with the subarachnoid space." [GO\_REF

2994 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8NHM5}

2995 Pathogen[ P0C214] interacts with 2 human partners:{P35580;Q8NHM5}

2996 Pathogen[ P03346] interacts with 1 human partners:{Q8NHM5}

2997 Pathogen[ Q85601] interacts with 2 human partners:{Q8NHM5;P35580}

2998 Pathogen[ P14079] interacts with 1 human partners:{Q8NHM5}

2999 Pathogen[ P03383] interacts with 1 human partners:{P35580}

3000 Pathogen[ P03410] interacts with 1 human partners:{P35580}

3001 Pathogen[ P0C206] interacts with 2 human partners:{Q8NHM5;P35580}

3002 [Cluster 495]GO:0045921+P biological\_process [name] positive regulation of exocytosis [def] "Any process that activates or increases the frequency, rate or extent of exocytosis." [GOC

3003 Pathogen[ P0C214] interacts with 1 human partners:{P62166}

3004 Pathogen[ P03346] interacts with 2 human partners:{P62166;Q70J99}

3005 Pathogen[ Q85601] interacts with 1 human partners:{P62166}

3006 Pathogen[ P14079] interacts with 2 human partners:{Q8NEV8;P62166}

3007 Pathogen[ P03410] interacts with 3 human partners:{Q70J99;Q8NEV8;P62166}

3008 Pathogen[ P0C206] interacts with 1 human partners:{P62166}

3009 [Cluster 496]GO:0045719+P biological\_process [name] negative regulation of glycogen biosynthetic process [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the chemical reactions and pathways resulting in the formation of glycogen." [GOC

3010 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BQE4}

3011 Pathogen[ P0C214] interacts with 1 human partners:{Q9BQE4}

3012 Pathogen[ P03346] interacts with 1 human partners:{Q13322}

3013 Pathogen[ Q85601] interacts with 1 human partners:{Q9BQE4}

3014 Pathogen[ P14079] interacts with 1 human partners:{Q9BQE4}

3015 Pathogen[ P03383] interacts with 1 human partners:{Q9BQE4}

3016 Pathogen[ P03410] interacts with 1 human partners:{Q9BQE4}

3017 Pathogen[ P14075] interacts with 1 human partners:{Q9BQE4}

3018 Pathogen[ P0C206] interacts with 1 human partners:{Q9BQE4}

3019 [Cluster 497]GO:0016338+P biological\_process [name] calcium-independent cell-cell adhesion [def] "The attachment of one cell to another cell via adhesion molecules that do not require the presence of calcium for the interaction." [GOC

3020 Pathogen[ P14079] interacts with 5 human partners:{Q8N7P3;P56750;O00501;Q8N6F1;Q96B33}

3021 Pathogen[ P03410] interacts with 7 human partners:{Q96B33;Q8N7P3;O00501;Q8N6F1;P56747;P56750;O95471}

3022 [Cluster 498]GO:0031998+P biological\_process [name] regulation of fatty acid beta-oxidation [def] "Any process that modulates the frequency, rate or extent of fatty acid beta-oxidation." [GOC

3023 Pathogen[ P14079] interacts with 1 human partners:{O95822}

3024 Pathogen[ P03410] interacts with 1 human partners:{O95822}

3025 [Cluster 499]GO:0042946+P biological\_process [name] glucoside transport [def] "The directed movement of glucosides into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore. Glucosides are glycosides in which the sugar group is a glucose residue." [GOC

3026 Pathogen[ P03410] interacts with 1 human partners:{Q9BRV3}

3027 [Cluster 500]GO:0016246+P biological\_process [name] RNA interference [def] "The process in which double-stranded RNAs silence cognate genes. Involves posttranscriptional gene inactivation ('silencing') both of transgenes or dsRNA introduced into a germline, and of the host gene(s) homologous to the transgenes or dsRNA. This silencing is triggered by the introduction of transgenes or double-stranded RNA (dsRNA), and can occur through a specific decrease in the level of mRNA, or by negative regulation of translation, of both host genes and transgenes." [GOC

3028 Pathogen[ P03346] interacts with 1 human partners:{Q92879}

3029 Pathogen[ P14079] interacts with 1 human partners:{Q9NXL6}

3030 Pathogen[ P03363] interacts with 1 human partners:{Q92879}

3031 [Cluster 501]GO:0090166+P biological\_process [name] Golgi disassembly [def] "A cellular process that results in the breakdown of a Golgi apparatus that contributes to Golgi inheritance." [GOC

3032 Pathogen[ P0C206] interacts with 1 human partners:{Q99986}

3033 [Cluster 502]GO:0035810+P biological\_process [name] positive regulation of urine volume [def] "Any process that increases the amount of urine excreted from the body over a unit of time." [GOC

3034 Pathogen[ P03346] interacts with 1 human partners:{Q92481}

3035 [Cluster 503]GO:0046390+P biological\_process [name] ribose phosphate biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of ribose phosphate, any phosphorylated ribose sugar." [GOC

3036 Pathogen[ P0C214] interacts with 2 human partners:{P11413;P29401}

3037 Pathogen[ P14079] interacts with 1 human partners:{P29401}

3038 Pathogen[ P0C206] interacts with 1 human partners:{P29401}

3039 [Cluster 504]GO:0010874+P biological\_process [name] regulation of cholesterol efflux [def] "Any process that modulates the frequency, rate or extent of cholesterol efflux. Cholesterol efflux is the directed movement of cholesterol, cholest-5-en-3-beta-ol, out of a cell or organelle." [GOC

3040 Pathogen[ P14079] interacts with 1 human partners:{Q6IAA8}

3041 Pathogen[ P03410] interacts with 1 human partners:{Q6IAA8}

3042 [Cluster 505]GO:0045672+P biological\_process [name] positive regulation of osteoclast differentiation [def] "Any process that activates or increases the frequency, rate or extent of osteoclast differentiation." [GOC

3043 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13118}

3044 Pathogen[ P03346] interacts with 1 human partners:{Q13118}

3045 Pathogen[ Q85601] interacts with 1 human partners:{Q13118}

3046 Pathogen[ P14079] interacts with 1 human partners:{Q13118}

3047 Pathogen[ P03410] interacts with 1 human partners:{Q13118}

3048 Pathogen[ P0C206] interacts with 1 human partners:{Q13118}

3049 Pathogen[ P03363] interacts with 1 human partners:{Q13118}



3050 [Cluster 506]GO:0003357+P biological\_process [name] noradrenergic neuron differentiation [def] "The process in which a relatively unspecialized cell acquires specialized features of an noradrenergic neuron, a neuron that secretes noradrenaline." [GOC]

3051 Pathogen[ Q2Q067] interacts with 1 human partners:{O14813}

3052 Pathogen[ POC214] interacts with 1 human partners:{O14813}

3053 Pathogen[ P03346] interacts with 2 human partners:{Q06945;O14813}

3054 Pathogen[ Q85601] interacts with 1 human partners:{O14813}

3055 Pathogen[ P14079] interacts with 1 human partners:{O14813}

3056 Pathogen[ P03410] interacts with 1 human partners:{O14813}

3057 Pathogen[ POC206] interacts with 1 human partners:{O14813}

3058 Pathogen[ P03363] interacts with 1 human partners:{O14813}

3059 [Cluster 507]GO:0035428+P biological\_process [name] hexose transmembrane transport [def] "The directed movement of hexose across a membrane by means of some agent such as a transporter or pore. Hexoses are any aldoses with a chain of six carbon atoms in the molecule." [GOC]

3060 Pathogen[ POC214] interacts with 1 human partners:{P11168}

3061 Pathogen[ Q85601] interacts with 1 human partners:{P11168}

3062 Pathogen[ P03383] interacts with 1 human partners:{P11168}

3063 Pathogen[ P03410] interacts with 1 human partners:{P11168}

3064 Pathogen[ P14075] interacts with 1 human partners:{P11168}

3065 Pathogen[ POC206] interacts with 1 human partners:{P11168}

3066 [Cluster 508]GO:0006983+P biological\_process [name] ER overload response [def] "The series of molecular signals generated by the accumulation of normal or misfolded proteins in the endoplasmic reticulum and leading to activation of transcription by NF-kappaB." [PMID]

3067 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BQE4}

3068 Pathogen[ POC214] interacts with 2 human partners:{Q5SWA1;Q9BQE4}

3069 Pathogen[ P03346] interacts with 1 human partners:{Q5SWA1}

3070 Pathogen[ Q85601] interacts with 2 human partners:{Q5SWA1;Q9BQE4}

3071 Pathogen[ P14079] interacts with 3 human partners:{Q9BQE4;Q5SWA1;Q96A33}

3072 Pathogen[ P03383] interacts with 2 human partners:{Q5SWA1;Q9BQE4}

3073 Pathogen[ P03410] interacts with 3 human partners:{Q96A33;Q9BQE4;Q5SWA1}

3074 Pathogen[ P14075] interacts with 2 human partners:{Q9BQE4;Q5SWA1}

3075 Pathogen[ POC206] interacts with 3 human partners:{Q96A33;Q9BQE4;Q5SWA1}

3076 [Cluster 509]GO:0030204+P biological\_process [name] chondroitin sulfate metabolic process [def] "The chemical reactions and pathways involving chondroitin sulfate, any member of a group of 10-60 kDa glycosaminoglycans, widely distributed in cartilage and other mammalian connective tissues, the repeat units of which consist of beta-(1,4)-linked D-glucuronyl beta-(1,3)-N-acetyl-D-galactosamine sulfate. They usually occur linked to a protein to form proteoglycans. Two subgroups exist, one in which the sulfate is on the 4-position (chondroitin sulfate A) and the second in which it is in the 6-position (chondroitin sulfate C). They often are polydisperse and often differ in the degree of sulfation from tissue to tissue. The chains of repeating disaccharide are covalently linked to the side chains of serine residues in the polypeptide backbone of a protein by a glycosidic attachment through the trisaccharide unit galactosyl-galactosyl-xylosyl. Chondroitin sulfate B is more usually known as dermatan sulfate." [GOC]

3077 Pathogen[ P14079] interacts with 2 human partners:{P35475;Q9UL01}

3078 Pathogen[ P03410] interacts with 1 human partners:{Q9UL01}

3079 Pathogen[ POC206] interacts with 1 human partners:{Q9UL01}

3080 [Cluster 510]GO:0009994+P biological\_process [name] oocyte differentiation [def] "The process in which a relatively unspecialized immature germ cell acquires the specialized features of a mature female gamete." [GOC]

3081 Pathogen[ P03346] interacts with 1 human partners:{Q86SE8}

3082 Pathogen[ Q85601] interacts with 1 human partners:{Q86SE8}

3083 Pathogen[ P03410] interacts with 1 human partners:{Q86SE8}

3084 Pathogen[ POC206] interacts with 1 human partners:{Q86SE8}

3085 Pathogen[ P03363] interacts with 1 human partners:{Q86SE8}

3086 [Cluster 511]GO:0072201+P biological\_process [name] negative regulation of mesenchymal cell proliferation [def] "Any process that decreases the frequency, rate or extent of mesenchymal cell proliferation. A mesenchymal cell is a cell that normally gives rise to other cells that are organized as three-dimensional masses, rather than sheets." [GOC]

3087 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NSA3}

3088 Pathogen[ POC214] interacts with 1 human partners:{Q9NSA3}

3089 Pathogen[ P03346] interacts with 1 human partners:{Q9NSA3}

3090 Pathogen[ Q85601] interacts with 1 human partners:{Q9NSA3}

3091 Pathogen[ P03383] interacts with 1 human partners:{Q9NSA3}

3092 Pathogen[ P03410] interacts with 1 human partners:{Q9NSA3}

3093 Pathogen[ P14075] interacts with 1 human partners:{Q9NSA3}

3094 Pathogen[ POC206] interacts with 1 human partners:{Q9NSA3}

3095 Pathogen[ P03363] interacts with 1 human partners:{Q9NSA3}

3096 [Cluster 512]GO:0002826+P biological\_process [name] negative regulation of T-helper 1 type immune response [def] "Any process that stops, prevents, or reduces the frequency, rate, or extent of a T-helper 1 type immune response." [GOC]

3097 Pathogen[ P14079] interacts with 1 human partners:{095760}

3098 Pathogen[ P03410] interacts with 1 human partners:{095760}

3099 [Cluster 513]GO:0001542+P biological\_process [name] ovulation from ovarian follicle [def] "The process leading to the rupture of the follicle, releasing the centrally located oocyte into the oviduct. An example of this is found in *Mus musculus*." [GOC

3100 Pathogen[ Q2Q067] interacts with 2 human partners:{043524;P29474}

3101 Pathogen[ P0C214] interacts with 1 human partners:{P29474}

3102 Pathogen[ P03346] interacts with 3 human partners:{P06401;P29474;043524}

3103 Pathogen[ Q85601] interacts with 1 human partners:{P29474}

3104 Pathogen[ P03383] interacts with 1 human partners:{P29474}

3105 Pathogen[ P03410] interacts with 1 human partners:{P29474}

3106 Pathogen[ P14075] interacts with 1 human partners:{P29474}

3107 Pathogen[ P0C206] interacts with 2 human partners:{P06401;P29474}

3108 Pathogen[ P03363] interacts with 2 human partners:{P29474;043524}

3109 [Cluster 514]GO:0045747+P biological\_process [name] positive regulation of Notch signaling pathway [def] "Any process that activates or increases the frequency, rate or extent of the Notch signaling pathway." [GOC

3110 Pathogen[ Q2Q067] interacts with 2 human partners:{Q99502;P40763}

3111 Pathogen[ P0C214] interacts with 2 human partners:{P40763;Q99502}

3112 Pathogen[ P03346] interacts with 2 human partners:{Q99502;P40763}

3113 Pathogen[ Q85601] interacts with 2 human partners:{P40763;Q99502}

3114 Pathogen[ P14079] interacts with 1 human partners:{Q99502}

3115 Pathogen[ P03410] interacts with 2 human partners:{Q99502;P40763}

3116 Pathogen[ P14075] interacts with 1 human partners:{Q99502}

3117 Pathogen[ P0C206] interacts with 2 human partners:{P40763;Q99502}

3118 [Cluster 515]GO:0048864+P biological\_process [name] stem cell development [def] "The process whose specific outcome is the progression of the stem cell over time, from its formation to the mature structure. Cell development does not include the steps involved in committing a cell to its specific fate." [CL

3119 Pathogen[ P03346] interacts with 1 human partners:{Q9BYW2}

3120 [Cluster 516]GO:0046653+P biological\_process [name] tetrahydrofolate metabolic process [def] "The chemical reactions and pathways involving tetrahydrofolate, 5,6,7,8-tetrahydrofolic acid, a folate derivative bearing additional hydrogens on the pterin group." [ISBN

3121 Pathogen[ P0C214] interacts with 2 human partners:{Q86XF0;P00374}

3122 Pathogen[ P14079] interacts with 2 human partners:{Q86XF0;P00374}

3123 Pathogen[ P03410] interacts with 2 human partners:{P00374;Q86XF0}

3124 [Cluster 517]GO:0097084+P biological\_process [name] vascular smooth muscle cell development [def] "The process aimed at the progression of a vascular smooth muscle cell over time, from initial commitment of the cell to a specific fate, to the fully functional differentiated cell. A vascular smooth muscle cell is a non-striated, elongated, spindle-shaped cell found lining the blood vessels." [GOC

3125 Pathogen[ P14079] interacts with 1 human partners:{060895}

3126 Pathogen[ P03410] interacts with 1 human partners:{060895}

3127 [Cluster 518]GO:0019543+P biological\_process [name] propionate catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of propionate, the anion derived from propionic acid." [GOC

3128 Pathogen[ P14079] interacts with 1 human partners:{A6NK06}

3129 Pathogen[ P03410] interacts with 1 human partners:{A6NK06}

3130 Pathogen[ P0C206] interacts with 1 human partners:{A6NK06}

3131 [Cluster 519]GO:0051685+P biological\_process [name] maintenance of ER location [def] "Any process in which the endoplasmic reticulum is maintained in a specific location within a cell and prevented from moving elsewhere." [GOC

3132 Pathogen[ P03346] interacts with 1 human partners:{POCAP2}

3133 Pathogen[ P14079] interacts with 1 human partners:{POCAP2}

3134 Pathogen[ P03383] interacts with 1 human partners:{POCAP2}

3135 Pathogen[ P03410] interacts with 1 human partners:{POCAP2}

3136 Pathogen[ P14075] interacts with 1 human partners:{POCAP2}

3137 Pathogen[ P0C206] interacts with 1 human partners:{POCAP2}

3138 Pathogen[ P03363] interacts with 1 human partners:{POCAP2}

3139 [Cluster 520]GO:0018205+P biological\_process [name] peptidyl-lysine modification [def] "The modification of peptidyl-lysine." [GOC

3140 Pathogen[ Q2Q067] interacts with 1 human partners:{Q00987}

3141 Pathogen[ P0C214] interacts with 1 human partners:{Q00987}

3142 Pathogen[ P03346] interacts with 1 human partners:{Q00987}

3143 Pathogen[ Q85601] interacts with 1 human partners:{Q00987}

3144 Pathogen[ P14079] interacts with 1 human partners:{Q00987}

3145 Pathogen[ P03410] interacts with 1 human partners:{Q00987}

3146 Pathogen[ P0C206] interacts with 1 human partners:{Q00987}

3147 [Cluster 521]GO:0060346+P biological\_process [name] bone trabecula formation [def] "The process of creating a trabecula in the bone. A trabecula is a tissue element in the form of a small beam, strut or rod." [GOC

3148 Pathogen[ Q2Q067] interacts with 1 human partners:{P35548}

3149 Pathogen[ P0C214] interacts with 1 human partners:{P35548}

3150 Pathogen[ P03346] interacts with 1 human partners:{P35548}

3151 Pathogen[ Q85601] interacts with 1 human partners:{P35548}

3152 Pathogen[ P03383] interacts with 1 human partners:{P35548}

3153 Pathogen[ P03410] interacts with 1 human partners:{P35548}

3154 Pathogen[ P14075] interacts with 1 human partners:{P35548}

3155 Pathogen[ P0C206] interacts with 1 human partners:{P35548}

3156 Pathogen[ P03363] interacts with 1 human partners:{P35548}

3157 [Cluster 522]GO:0010817+P biological\_process [name] regulation of hormone levels  
[def] "Any process that modulates the levels of hormone within an organism or a tissue. A hormone is any substance formed in very small amounts in one specialized organ or group of cells and carried (sometimes in the bloodstream) to another organ or group of cells in the same organism, upon which it has a specific regulatory action." [GOC

3158 Pathogen[ P0C214] interacts with 1 human partners:{O15382}

3159 Pathogen[ Q85601] interacts with 1 human partners:{O15382}

3160 Pathogen[ P14079] interacts with 1 human partners:{O15382}

3161 Pathogen[ P03410] interacts with 1 human partners:{O15382}

3162 Pathogen[ P0C206] interacts with 1 human partners:{O15382}

3163 [Cluster 523]GO:0002331+P biological\_process [name] pre-B cell allelic exclusion  
[def] "Expression of a single heavy chain allele during pre-B cell differentiation." [GOC

3164 Pathogen[ Q2Q067] interacts with 1 human partners:{P55895}

3165 Pathogen[ P0C214] interacts with 1 human partners:{P55895}

3166 Pathogen[ P03346] interacts with 1 human partners:{P55895}

3167 Pathogen[ Q85601] interacts with 1 human partners:{P55895}

3168 Pathogen[ P03383] interacts with 1 human partners:{P55895}

3169 Pathogen[ P03410] interacts with 1 human partners:{P55895}

3170 Pathogen[ P14075] interacts with 1 human partners:{P55895}

3171 Pathogen[ P0C206] interacts with 1 human partners:{P55895}

3172 Pathogen[ P03363] interacts with 1 human partners:{P55895}

3173 [Cluster 524]GO:0045069+P biological\_process [name] regulation of viral genome replication  
[def] "Any process that modulates the frequency, rate or extent of viral genome replication." [GOC

3174 Pathogen[ Q2Q067] interacts with 1 human partners:{P62937}

3175 Pathogen[ P03346] interacts with 1 human partners:{P62937}

3176 Pathogen[ Q85601] interacts with 1 human partners:{P62937}

3177 Pathogen[ P14079] interacts with 1 human partners:{P62937}

3178 Pathogen[ P03383] interacts with 1 human partners:{P62937}

3179 Pathogen[ P03410] interacts with 1 human partners:{P62937}

3180 Pathogen[ P14075] interacts with 1 human partners:{P62937}

3181 Pathogen[ P0C206] interacts with 1 human partners:{P62937}

3182 Pathogen[ P03363] interacts with 1 human partners:{P62937}

3183 [Cluster 525]GO:0006564+P biological\_process [name] L-serine biosynthetic process  
[def] "The chemical reactions and pathways resulting in the formation of L-serine, the L-enantiomer of serine, i.e. (2S)-2-amino-3-hydroxypropanoic acid." [CHEBI

3184 Pathogen[ P0C214] interacts with 2 human partners:{Q9Y617;P34897}

3185 Pathogen[ P14079] interacts with 2 human partners:{Q9Y617;P34897}

3186 Pathogen[ P03410] interacts with 2 human partners:{Q9Y617;P34897}

3187 Pathogen[ P0C206] interacts with 1 human partners:{P34897}

3188 [Cluster 526]GO:0043990+P biological\_process [name] histone H2A-S1 phosphorylation  
[def] "The modification of histone H2A by the addition of an phosphate group to a serine residue at position 1 of the histone." [GOC

3189 Pathogen[ Q2Q067] interacts with 1 human partners:{O75582}

3190 Pathogen[ P0C214] interacts with 1 human partners:{O75582}

3191 Pathogen[ P03346] interacts with 1 human partners:{O75582}

3192 Pathogen[ Q85601] interacts with 1 human partners:{O75582}

3193 Pathogen[ P14079] interacts with 1 human partners:{O75582}

3194 Pathogen[ P03383] interacts with 1 human partners:{O75582}

3195 Pathogen[ P03410] interacts with 1 human partners:{O75582}

3196 Pathogen[ P14075] interacts with 1 human partners:{O75582}

3197 Pathogen[ P0C206] interacts with 1 human partners:{O75582}

3198 [Cluster 527]GO:0030844+P biological\_process [name] positive regulation of intermediate filament depolymerization [def] "Any process that activates or increases the frequency, rate or extent of intermediate filament depolymerization." [GOC

3199 Pathogen[ P14079] interacts with 1 human partners:{P48681}

3200 [Cluster 528]GO:0019049+P biological\_process [name] evasion of host defenses by virus  
[def] "Any process, either active or passive, by which a virus avoids or tolerates the effects of its host organism's defense(s). Host defenses may be induced by the presence of the virus or may be preformed (e.g. physical barriers). The host is defined as the larger of the organisms involved in a symbiotic interaction." [ISBN

3201 Pathogen[ Q2Q067] interacts with 1 human partners:{P84022}

3202 Pathogen[ P0C214] interacts with 1 human partners:{P84022}

3203 Pathogen[ P03346] interacts with 1 human partners:{P84022}

3204 Pathogen[ Q85601] interacts with 1 human partners:{P84022}

3205 Pathogen[ P03383] interacts with 1 human partners:{P84022}

3206 Pathogen[ P03410] interacts with 1 human partners:{P84022}

3207 Pathogen[ P14075] interacts with 1 human partners:{P84022}

3208 Pathogen[ P0C206] interacts with 1 human partners:{P84022}

3209 Pathogen[ P03363] interacts with 1 human partners:{P84022}

3210 [Cluster 529]GO:0060059+P biological\_process [name] embryonic retina morphogenesis in camera-type eye [def] "The process in which the anatomical structure of the retina is generated and organized in a camera-type eye during the embryonic life stage." [GOC

3211 Pathogen[ P03346] interacts with 1 human partners:{Q86Z02}

3212 [Cluster 530]GO:0045617+P biological\_process [name] negative regulation of keratinocyte differentiation [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of keratinocyte differentiation." [GOC

3213 Pathogen[ Q2Q067] interacts with 2 human partners:{P31268;P35548}

3214 Pathogen[ P0C214] interacts with 1 human partners:{P35548}

3215 Pathogen[ P03346] interacts with 2 human partners:{P31268;P35548}

3216 Pathogen[ Q85601] interacts with 1 human partners:{P35548}

3217 Pathogen[ P03383] interacts with 1 human partners:{P35548}

3218 Pathogen[ P03410] interacts with 1 human partners:{P35548}

3219 Pathogen[ P14075] interacts with 1 human partners:{P35548}

3220 Pathogen[ P0C206] interacts with 2 human partners:{P31268;P35548}

3221 Pathogen[ P03363] interacts with 2 human partners:{P35548;P31268}

3222 [Cluster 531]GO:0000819+P biological\_process [name] sister chromatid segregation [def] "The cell cycle process in which sister chromatids are organized and then physically separated and apportioned to two or more sets." [GOC

3223 Pathogen[ Q2Q067] interacts with 1 human partners:{P11388}

3224 Pathogen[ P0C214] interacts with 1 human partners:{P11388}

3225 Pathogen[ P03346] interacts with 1 human partners:{P11388}

3226 Pathogen[ Q85601] interacts with 1 human partners:{P11388}

3227 Pathogen[ P14079] interacts with 1 human partners:{P11388}

3228 Pathogen[ P03410] interacts with 1 human partners:{P11388}

3229 Pathogen[ P0C206] interacts with 1 human partners:{P11388}

3230 [Cluster 532]GO:0045815+P biological\_process [name] positive regulation of gene expression, epigenetic [def] "Any epigenetic process that activates or increases the rate of gene expression." [GOC

3231 Pathogen[ P03410] interacts with 1 human partners:{Q9BRV3}

3232 [Cluster 533]GO:0045660+P biological\_process [name] positive regulation of neutrophil differentiation [def] "Any process that activates or increases the frequency, rate or extent of neutrophil differentiation." [GOC

3233 Pathogen[ P0C206] interacts with 1 human partners:{Q13422}

3234 [Cluster 534]GO:2000098+P biological\_process [name] negative regulation of smooth muscle cell-matrix adhesion [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of smooth muscle cell-matrix adhesion." [GOC

3235 Pathogen[ P0C214] interacts with 1 human partners:{P05121}

3236 Pathogen[ Q85601] interacts with 1 human partners:{P05121}

3237 Pathogen[ P03410] interacts with 1 human partners:{P05121}

3238 Pathogen[ P0C206] interacts with 1 human partners:{P05121}

3239 [Cluster 535]GO:0021912+P biological\_process [name] regulation of transcription from RNA polymerase II promoter involved in spinal cord motor neuron fate specification [def] "Any process that modulates the frequency, rate or extent of transcription from an RNA polymerase II promoter that results the commitment of a cell to become a motor neuron in the ventral spinal cord." [GO\_REF

3240 Pathogen[ P03346] interacts with 1 human partners:{P78426}

3241 Pathogen[ P03363] interacts with 1 human partners:{Q9C056}

3242 [Cluster 536]GO:0045475+P biological\_process [name] locomotor rhythm [def] "The rhythm of the locomotor activity of an organism during its 24 hour activity cycle." [GOC

3243 Pathogen[ Q2Q067] interacts with 1 human partners:{Q99743}

3244 Pathogen[ P0C214] interacts with 1 human partners:{Q99743}

3245 Pathogen[ P03346] interacts with 1 human partners:{Q99743}

3246 Pathogen[ Q85601] interacts with 1 human partners:{Q99743}

3247 Pathogen[ P14079] interacts with 1 human partners:{Q99743}

3248 Pathogen[ P03410] interacts with 1 human partners:{Q99743}

3249 Pathogen[ P0C206] interacts with 1 human partners:{Q99743}

3250 Pathogen[ P03363] interacts with 1 human partners:{Q99743}

3251 [Cluster 537]GO:0006706+P biological\_process [name] steroid catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of steroids, compounds with a 1,2,cyclopentanoperhydrophenanthrene nucleus." [GOC

3252 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BPX1}

3253 Pathogen[ P0C214] interacts with 1 human partners:{Q9BPX1}

3254 Pathogen[ P03346] interacts with 1 human partners:{Q9BPX1}

3255 Pathogen[ Q85601] interacts with 1 human partners:{Q9BPX1}

3256 Pathogen[ P03383] interacts with 1 human partners:{Q9BPX1}

3257 Pathogen[ P03410] interacts with 1 human partners:{Q9BPX1}

3258 Pathogen[ P0C206] interacts with 1 human partners:{Q9BPX1}

3259 Pathogen[ P03363] interacts with 1 human partners:{Q9BPX1}

3260 [Cluster 538]GO:0048199+P biological\_process [name] vesicle targeting, to, from or within Golgi [def] "The process in which vesicles are directed to specific destination membranes during transport to, from or within the Golgi apparatus\_ mediated by the addition of specific coat proteins, including COPI and COPII proteins and clathrin, to the membrane during vesicle formation." [GOC

3261 Pathogen[ P03346] interacts with 1 human partners:{P49755}

3262 Pathogen[ P14079] interacts with 1 human partners:{P49755}

3263 Pathogen[ P0C206] interacts with 1 human partners:{P49755}

3264 [Cluster 539]GO:0030206+P biological\_process [name] chondroitin sulfate biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of chondroitin sulfate, any member of a group of 10-60 kDa glycosaminoglycans, widely distributed in cartilage and other mammalian connective tissues, the repeat units of which consist of beta-(1,4)-linked D-glucuronyl beta-(1,3)-N-acetyl-D-galactosamine sulfate." [GOC

3265 Pathogen[ P14079] interacts with 1 human partners:{Q9UL01}

3266 Pathogen[ P03410] interacts with 1 human partners:{Q9UL01}

3267 Pathogen[ P0C206] interacts with 1 human partners:{Q9UL01}

3268 [Cluster 540]GO:0072073+P biological\_process [name] kidney epithelium development [def] "The process whose specific outcome is the progression of an epithelium in the kidney over time, from its formation to the mature structure. An epithelium is a tissue that covers the internal or external surfaces of an anatomical structure." [GOC

3269 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NSC2}

3270 Pathogen[ P0C214] interacts with 1 human partners:{Q9NSC2}

3271 Pathogen[ P03346] interacts with 2 human partners:{Q9NSC2;Q06710}

3272 Pathogen[ Q85601] interacts with 1 human partners:{Q9NSC2}

3273 Pathogen[ P14079] interacts with 1 human partners:{Q9NSC2}

3274 Pathogen[ P03383] interacts with 1 human partners:{Q9NSC2}

3275 Pathogen[ P03410] interacts with 1 human partners:{Q9NSC2}

3276 Pathogen[ P14075] interacts with 1 human partners:{Q9NSC2}

3277 Pathogen[ P0C206] interacts with 1 human partners:{Q9NSC2}

3278 [Cluster 541]GO:0035093+P biological\_process [name] spermatogenesis, exchange of chromosomal proteins [def] "The replacement of somatic histones within sperm chromatin with sperm-specific histones or protamines with unique DNA-binding properties, resulting in condensation of the sperm chromatin." [GOC

3279 Pathogen[ P03346] interacts with 1 human partners:{Q8IZU3}

3280 Pathogen[ P14079] interacts with 1 human partners:{Q8IZU3}

3281 Pathogen[ P03410] interacts with 1 human partners:{Q8IZU3}

3282 Pathogen[ P0C206] interacts with 1 human partners:{Q8IZU3}

3283 Pathogen[ P03363] interacts with 1 human partners:{Q8IZU3}

3284 [Cluster 542]GO:0010741+P biological\_process [name] negative regulation of intracellular protein kinase cascade [def] "Any process that decreases the rate, frequency or extent of a series of reactions, mediated by protein kinases, which occurs as a result of a single trigger reaction or compound." [GOC

3285 Pathogen[ P14079] interacts with 1 human partners:{Q9NX09}

3286 Pathogen[ P03410] interacts with 1 human partners:{Q9NX09}

3287 [Cluster 543]GO:0051281+P biological\_process [name] positive regulation of release of sequestered calcium ion into cytosol [def] "Any process that activates or increases the frequency, rate or extent of the release into the cytosolic compartment of calcium ions sequestered in the endoplasmic reticulum or mitochondria." [GOC

3288 Pathogen[ P14079] interacts with 1 human partners:{Q9GZZ8}

3289 Pathogen[ P03410] interacts with 1 human partners:{Q9GZZ8}

3290 Pathogen[ P14075] interacts with 1 human partners:{Q9GZZ8}

3291 [Cluster 544]GO:0021930+P biological\_process [name] cerebellar granule cell precursor proliferation [def] "The multiplication or reproduction of neuroblasts that will give rise to granule cells. A granule cell is a glutamatergic interneuron found in the cerebellar cortex." [GO\_REF

3292 Pathogen[ P03346] interacts with 1 human partners:{P52951}

3293 Pathogen[ P03363] interacts with 1 human partners:{P52951}

3294 [Cluster 545]GO:0046874+P biological\_process [name] quinolinate metabolic process [def] "The chemical reactions and pathways involving quinolinate, the anion of quinolinic acid, also known as 2,3-pyridinedicarboxylic acid." [GOC

3295 Pathogen[ P0C214] interacts with 1 human partners:{Q15274}

3296 Pathogen[ P14079] interacts with 2 human partners:{Q8TDX5;Q15274}

3297 Pathogen[ P03410] interacts with 2 human partners:{Q15274;Q8TDX5}

3298 Pathogen[ P0C206] interacts with 1 human partners:{Q15274}

3299 [Cluster 546]GO:0034620+P biological\_process [name] cellular response to unfolded protein [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an unfolded protein stimulus." [GOC

3300 Pathogen[ P0C214] interacts with 1 human partners:{P49588}

3301 Pathogen[ P03346] interacts with 1 human partners:{Q9BUN8}

3302 Pathogen[ P14079] interacts with 2 human partners:{Q9BUN8;P49588}

3303 Pathogen[ P03383] interacts with 1 human partners:{Q9BUN8}

3304 Pathogen[ P03410] interacts with 2 human partners:{P49588;Q9BUN8}

3305 Pathogen[ P14075] interacts with 1 human partners:{Q9BUN8}

3306 Pathogen[ P0C206] interacts with 1 human partners:{Q9BUN8}

3307 [Cluster 547]GO:0061041+P biological\_process [name] regulation of wound healing [def] "Any process that modulates the rate, frequency, or extent of the series of events that restore integrity to a damaged tissue, following an injury." [GOC

3308 Pathogen[ P14079] interacts with 1 human partners:{P09327}

3309 [Cluster 548]GO:0061045+P biological\_process [name] negative regulation of wound healing [def] "Any process that decreases the rate, frequency, or extent of the series of events that restore integrity to a damaged tissue, following an injury." [GOC

3310 Pathogen[ Q2Q067] interacts with 1 human partners:{P84022}

3311 Pathogen[ P0C214] interacts with 2 human partners:{P84022;P05121}

3312 Pathogen[ P03346] interacts with 1 human partners:{P84022}

3313 Pathogen[ Q85601] interacts with 2 human partners:{P05121;P84022}

3314 Pathogen[ P03383] interacts with 1 human partners:{P84022}

3315 Pathogen[ P03410] interacts with 2 human partners:{P84022;P05121}

3316 Pathogen[ P14075] interacts with 1 human partners:{P84022}

3317 Pathogen[ P0C206] interacts with 2 human partners:{P84022;P05121}

3318 Pathogen[ P03363] interacts with 1 human partners:{P84022}

3319 [Cluster 549]GO:0042264+P biological\_process [name] peptidyl-aspartic acid hydroxylation [def] "The hydroxylation of peptidyl-aspartic acid to form peptidyl-hydroxyaspartic acid." [GOC

3320 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NWT6}

3321 Pathogen[ P0C214] interacts with 1 human partners:{Q9NWT6}

3322 Pathogen[ P03346] interacts with 1 human partners:{Q9NWT6}

3323 Pathogen[ Q85601] interacts with 1 human partners:{Q9NWT6}

3324 Pathogen[ P14079] interacts with 1 human partners:{Q9NWT6}

3325 Pathogen[ P03383] interacts with 1 human partners:{Q9NWT6}

3326 Pathogen[ P03410] interacts with 1 human partners:{Q9NWT6}

3327 Pathogen[ P14075] interacts with 1 human partners:{Q9NWT6}

3328 Pathogen[ P0C206] interacts with 1 human partners:{Q9NWT6}

3329 [Cluster 550]GO:0032049+P biological\_process [name] cardiolipin biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of cardiolipin, 1,3-bis(3-phosphatidyl)glycerol." [CHEBI

3330 Pathogen[ P14079] interacts with 1 human partners:{Q32NB8}

3331 Pathogen[ P03410] interacts with 1 human partners:{Q16635}

3332 [Cluster 551]GO:0060022+P biological\_process [name] hard palate development [def] "The biological process whose specific outcome is the progression of the hard palate from an initial condition to its mature state. This process begins with the formation of the structure and ends with the mature structure, whatever form that may be including its natural destruction. The hard palate is the anterior portion of the palate consisting of bone and mucous membranes." [GOC

3333 Pathogen[ Q2Q067] interacts with 1 human partners:{Q12959}

3334 Pathogen[ P0C214] interacts with 1 human partners:{Q12959}

3335 Pathogen[ P03346] interacts with 1 human partners:{Q12959}

3336 Pathogen[ Q85601] interacts with 1 human partners:{Q12959}

3337 Pathogen[ P03410] interacts with 1 human partners:{Q12959}

3338 Pathogen[ P0C206] interacts with 1 human partners:{Q12959}

3339 Pathogen[ P03363] interacts with 1 human partners:{Q12959}

3340 [Cluster 552]GO:0071660+P biological\_process [name] positive regulation of IP-10 production [def] "Any process that activates or increases the frequency, rate, or extent of production of IP-10." [GOC

3341 Pathogen[ P14079] interacts with 1 human partners:{Q7Z434}

3342 Pathogen[ P03410] interacts with 1 human partners:{Q7Z434}

3343 [Cluster 553]GO:0001768+P biological\_process [name] establishment of T cell polarity [def] "The directed orientation of T cell signaling molecules and associated membrane rafts towards a chemokine gradient or a contact point with antigen presenting cell." [GOC

3344 Pathogen[ Q2Q067] interacts with 1 human partners:{P35579}

3345 Pathogen[ P03346] interacts with 1 human partners:{P35579}

3346 Pathogen[ Q85601] interacts with 1 human partners:{P35579}

3347 Pathogen[ P14079] interacts with 1 human partners:{P35579}

3348 Pathogen[ P03383] interacts with 1 human partners:{P35579}

3349 Pathogen[ P03410] interacts with 1 human partners:{P35579}

3350 Pathogen[ P14075] interacts with 1 human partners:{P35579}

3351 Pathogen[ P0C206] interacts with 1 human partners:{P35579}

3352 Pathogen[ P03363] interacts with 1 human partners:{P35579}

3353 [Cluster 554]GO:0032202+P biological\_process [name] telomere assembly [def] "A cellular process that results in the aggregation, arrangement and bonding together of a set of components to form a telomere at a non-telomeric double-stranded DNA end. A telomere is a terminal region of a linear chromosome that includes telomeric DNA repeats and associated proteins." [GOC

3354 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9BSI4;Q96AP0}

3355 Pathogen[ P0C214] interacts with 1 human partners:{Q9BSI4}

3356 Pathogen[ P03346] interacts with 2 human partners:{Q9BSI4;Q96AP0}

3357 Pathogen[ P14079] interacts with 2 human partners:{Q9BSI4;Q96AP0}

3358 Pathogen[ P03383] interacts with 1 human partners:{Q9BSI4}

3359 Pathogen[ P03410] interacts with 2 human partners:{Q96AP0;Q9BSI4}

3360 Pathogen[ P14075] interacts with 2 human partners:{Q9BSI4;Q96AP0}

3361 Pathogen[ P0C206] interacts with 2 human partners:{Q96AP0;Q9BSI4}

3362 Pathogen[ P03363] interacts with 2 human partners:{Q9BSI4;Q96AP0}

3363 [Cluster 555]GO:0009264+P biological\_process [name] deoxyribonucleotide catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of a deoxyribonucleotide, a compound consisting of deoxyribonucleoside (a base linked to a deoxyribose sugar) esterified with a phosphate group at either the 3' or 5'-hydroxyl group of the sugar." [GOC

3364 Pathogen[ POC214] interacts with 2 human partners:{Q9Y315;Q8TCD5}

3365 Pathogen[ P14079] interacts with 2 human partners:{Q8TCD5;Q9Y315}

3366 Pathogen[ P03410] interacts with 2 human partners:{Q9Y315;Q8TCD5}

3367 Pathogen[ P14075] interacts with 1 human partners:{Q9Y315}

3368 Pathogen[ POC206] interacts with 2 human partners:{Q9Y315;Q8TCD5}

3369 Pathogen[ P03363] interacts with 1 human partners:{Q9Y315}

3370 [Cluster 556]GO:0072107+P biological\_process [name] positive regulation of ureteric bud formation [def] "Any process that increases the rate or extent of the developmental process pertaining to the initial formation of the ureteric bud from the Wolffian duct." [GOC

3371 Pathogen[ P03346] interacts with 2 human partners:{Q9UIU6;Q15475}

3372 [Cluster 557]GO:0045162+P biological\_process [name] clustering of voltage-gated sodium channels [def] "The process in which voltage-gated sodium channels become localized together in high densities. In animals, nodes of Ranvier differ dramatically from internodal axonal regions in very high densities of voltage-dependent sodium (Nav) channels responsible for the rapid, inward ionic currents that produce membrane depolarization." [PMID

3373 Pathogen[ P03346] interacts with 1 human partners:{Q96NL6}

3374 Pathogen[ P14079] interacts with 1 human partners:{Q96NL6}

3375 Pathogen[ P03410] interacts with 1 human partners:{Q96NL6}

3376 Pathogen[ POC206] interacts with 1 human partners:{Q96NL6}

3377 [Cluster 558]GO:0035786+P biological\_process [name] protein complex oligomerization [def] "The association of two or more multisubunit protein complexes to form dimers or other multimers of a protein complex." [GOC

3378 Pathogen[ P14079] interacts with 1 human partners:{Q8NE86}

3379 Pathogen[ P03410] interacts with 1 human partners:{Q8NE86}

3380 Pathogen[ POC206] interacts with 1 human partners:{Q8NE86}

3381 [Cluster 559]GO:0070561+P biological\_process [name] vitamin D receptor signaling pathway [def] "The series of molecular signals generated as a consequence of a vitamin D receptor binding to one of its physiological ligands." [GOC

3382 Pathogen[ Q2Q067] interacts with 1 human partners:{P11473}

3383 Pathogen[ P03346] interacts with 1 human partners:{P11473}

3384 Pathogen[ Q85601] interacts with 1 human partners:{P11473}

3385 Pathogen[ P14079] interacts with 1 human partners:{P11473}

3386 Pathogen[ P03383] interacts with 1 human partners:{P11473}

3387 Pathogen[ P03410] interacts with 1 human partners:{P11473}

3388 Pathogen[ P14075] interacts with 1 human partners:{P11473}

3389 Pathogen[ POC206] interacts with 1 human partners:{P11473}

3390 Pathogen[ P03363] interacts with 1 human partners:{P11473}

3391 [Cluster 560]GO:0032369+P biological\_process [name] negative regulation of lipid transport [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the directed movement of lipids into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore." [GOC

3392 Pathogen[ Q2Q067] interacts with 1 human partners:{P55055}

3393 Pathogen[ P03346] interacts with 1 human partners:{P55055}

3394 Pathogen[ Q85601] interacts with 1 human partners:{P55055}

3395 Pathogen[ P14079] interacts with 1 human partners:{P55055}

3396 Pathogen[ POC206] interacts with 1 human partners:{P55055}

3397 [Cluster 561]GO:0048291+P biological\_process [name] isotype switching to IgG isotypes [def] "The switching of activated B cells from IgM biosynthesis to biosynthesis of an IgG isotype, accomplished through a recombination process involving an intrachromosomal deletion between switch regions that reside 5' of the IgM and one of the IgG constant region gene segments in the immunoglobulin heavy chain locus." [ISBN

3398 Pathogen[ POC214] interacts with 1 human partners:{P10809}

3399 [Cluster 562]GO:0060684+P biological\_process [name] epithelial-mesenchymal cell signaling [def] "Any process that results in the transfer of information from an epithelial cell to a mesenchymal cell where it is interpreted." [GOC

3400 Pathogen[ Q2Q067] interacts with 1 human partners:{P60953}

3401 Pathogen[ POC214] interacts with 1 human partners:{P60953}

3402 Pathogen[ P03346] interacts with 1 human partners:{P60953}

3403 Pathogen[ Q85601] interacts with 1 human partners:{P60953}

3404 Pathogen[ P03383] interacts with 1 human partners:{P60953}

3405 Pathogen[ P03410] interacts with 1 human partners:{P60953}

3406 Pathogen[ P14075] interacts with 1 human partners:{P60953}

3407 Pathogen[ POC206] interacts with 1 human partners:{P60953}

3408 Pathogen[ P03363] interacts with 1 human partners:{P60953}

3409 [Cluster 563]GO:0000965+P biological\_process [name] mitochondrial RNA 3'-end processing [def] "Any process involved in forming the mature 3' end of an RNA molecule transcribed from a mitochondrial genome\_ occurs in the mitochondrion." [GOC

3410 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8TCS8}

3411 Pathogen[ POC214] interacts with 1 human partners:{Q8TCS8}

3412 Pathogen[ P03346] interacts with 1 human partners:{Q8TCS8}

3413 Pathogen[ Q85601] interacts with 1 human partners:{Q8TCS8}

3414 Pathogen[ P14079] interacts with 1 human partners:{Q8TCS8}

3415 Pathogen[ P03383] interacts with 1 human partners:{Q8TCS8}

3416 Pathogen[ P03410] interacts with 1 human partners:{Q8TCS8}

3417 Pathogen[ P14075] interacts with 1 human partners:{Q8TCS8}

3418 Pathogen[ P0C206] interacts with 1 human partners:{Q8TCS8}

3419 [Cluster 564]GO:0031328+P biological\_process [name] positive regulation of cellular biosynthetic process [def] "Any process that activates or increases the frequency, rate or extent of the chemical reactions and pathways resulting in the formation of substances, carried out by individual cells." [GOC]

3420 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96IF1}

3421 Pathogen[ P03346] interacts with 1 human partners:{Q96IF1}

3422 Pathogen[ Q85601] interacts with 1 human partners:{Q96IF1}

3423 Pathogen[ P14079] interacts with 1 human partners:{Q96IF1}

3424 Pathogen[ P03410] interacts with 1 human partners:{Q96IF1}

3425 Pathogen[ P0C206] interacts with 1 human partners:{Q96IF1}

3426 Pathogen[ P03363] interacts with 1 human partners:{Q96IF1}

3427 [Cluster 565]GO:0044598+P

3428 Pathogen[ Q2Q067] interacts with 1 human partners:{P15121}

3429 Pathogen[ P0C214] interacts with 1 human partners:{P15121}

3430 Pathogen[ P03346] interacts with 1 human partners:{P15121}

3431 Pathogen[ Q85601] interacts with 1 human partners:{P15121}

3432 Pathogen[ P0C206] interacts with 1 human partners:{P15121}

3433 [Cluster 566]GO:0030207+P biological\_process [name] chondroitin sulfate catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of chondroitin sulfate, any member of a group of 10-60 kDa glycosaminoglycans, widely distributed in cartilage and other mammalian connective tissues, the repeat units of which consist of beta-(1,4)-linked D-glucuronyl beta-(1,3)-N-acetyl-D-galactosamine sulfate." [GOC]

3434 Pathogen[ P14079] interacts with 1 human partners:{P35475}

3435 [Cluster 567]GO:0051877+P biological\_process [name] pigment granule aggregation in cell center [def] "The directed movement of dispersed pigment granules towards the center of the cell." [GOC]

3436 Pathogen[ P14079] interacts with 1 human partners:{Q8IYWZ6}

3437 Pathogen[ P03410] interacts with 1 human partners:{Q8IYWZ6}

3438 [Cluster 568]GO:0050965+P biological\_process [name] detection of temperature stimulus involved in sensory perception of pain [def] "The series of events involved in the perception of pain in which a sensory temperature stimulus is received by a cell and converted into a molecular signal." [GOC]

3439 Pathogen[ P03346] interacts with 1 human partners:{P10588}

3440 Pathogen[ P14079] interacts with 2 human partners:{P10588;Q9BS40}

3441 Pathogen[ P03410] interacts with 1 human partners:{Q9BS40}

3442 Pathogen[ P0C206] interacts with 1 human partners:{P10588}

3443 Pathogen[ P03363] interacts with 1 human partners:{P10588}

3444 [Cluster 569]GO:0008535+P biological\_process [name] respiratory chain complex IV assembly [def] "The aggregation, arrangement and bonding together of a set of components to form respiratory chain complex IV (also known as cytochrome c oxidase), the terminal member of the respiratory chain of the mitochondrion and some aerobic bacteria. Cytochrome c oxidases are multi-subunit enzymes containing from 13 subunits in the mammalian mitochondrial form to 3-4 subunits in the bacterial forms." [GOC]

3445 Pathogen[ P14079] interacts with 4 human partners:{Q12887;Q15526;O75880;O43819}

3446 Pathogen[ P03410] interacts with 3 human partners:{Q12887;O75880;O43819}

3447 [Cluster 570]GO:0042461+P biological\_process [name] photoreceptor cell development [def] "Development of a photoreceptor, a cell that responds to incident electromagnetic radiation, particularly visible light." [GOC]

3448 Pathogen[ P03346] interacts with 2 human partners:{P36405;Q8IWN7}

3449 Pathogen[ Q85601] interacts with 1 human partners:{P36405}

3450 Pathogen[ P14079] interacts with 3 human partners:{Q8IWN7;P56715;P36405}

3451 Pathogen[ P03410] interacts with 3 human partners:{P36405;Q8IWN7;P56715}

3452 Pathogen[ P0C206] interacts with 3 human partners:{P56715;Q8IWN7;P36405}

3453 Pathogen[ P03363] interacts with 2 human partners:{P56715;Q8IWN7}

3454 [Cluster 571]GO:0006869+P biological\_process [name] lipid transport [def] "The directed movement of lipids into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore. Lipids are compounds soluble in an organic solvent but not, or sparingly, in an aqueous solvent." [ISBN]

3455 Pathogen[ P03346] interacts with 2 human partners:{Q9UID3;Q9BXW6}

3456 Pathogen[ Q85601] interacts with 1 human partners:{Q9UID3}

3457 Pathogen[ P14079] interacts with 6 human partners:{Q9BXW6;Q9UID3;Q9UKF7;Q0VD83;Q96AA3;Q9NZD2}

3458 Pathogen[ P03410] interacts with 7 human partners:{P55157;Q9UKF7;Q9NZD2;Q0VD83;Q9UBY8;Q9UID3;Q9BXW6}

3459 Pathogen[ P0C206] interacts with 3 human partners:{Q9NZD2;Q9UID3;Q9BXW6}

3460 Pathogen[ P03363] interacts with 4 human partners:{Q9UID3;Q9BZF3;Q9BXW6;Q9UKF7}

3461 [Cluster 572]GO:0044319+P biological\_process [name] wound healing, spreading of cells [def] "The migration of an cell along or through a wound gap to reestablish a continuous surface." [GOC]

3462 Pathogen[ P03346] interacts with 1 human partners:{Q8TEW0}

3463 Pathogen[ P14079] interacts with 1 human partners:{Q8TEW0}

3464 Pathogen[ P03410] interacts with 1 human partners:{Q8TEW0}

3465 Pathogen[ P0C206] interacts with 1 human partners:{Q8TEW0}



3466 [Cluster 573]GO:0060481+P biological\_process [name] lobar bronchus epithelium development [def] "The biological process whose specific outcome is the progression of a lobar bronchus epithelium from an initial condition to its mature state. This process begins with the formation of the lobar bronchus epithelium and ends with the mature structure. The lobar bronchus epithelium is the tissue made up of epithelial cells that lines the inside of the lobar bronchus." [GOC

3467 Pathogen[ Q2Q067] interacts with 1 human partners:{P20719}

3468 Pathogen[ P03346] interacts with 1 human partners:{P20719}

3469 Pathogen[ P0C206] interacts with 1 human partners:{P20719}

3470 Pathogen[ P03363] interacts with 1 human partners:{P20719}

3471 [Cluster 574]GO:0007213+P biological\_process [name] G-protein coupled acetylcholine receptor signaling pathway [def] "Any series of molecular signals initiated by an acetylcholine receptor on the surface of the target cell binding to one of its physiological ligands, and proceeding with the activated receptor promoting the exchange of GDP for GTP on the alpha-subunit of an associated heterotrimeric G-protein complex. The GTP-bound activated alpha-G-protein then dissociates from the beta- and gamma-subunits to further transmit the signal within the cell. The pathway begins with receptor-ligand interaction and ends with regulation of a downstream cellular process, e.g. transcription." [GOC

3472 Pathogen[ P14079] interacts with 1 human partners:{Q15078}

3473 [Cluster 575]GO:0071105+P biological\_process [name] response to interleukin-11 [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an interleukin-11 stimulus." [GOC

3474 Pathogen[ Q2Q067] interacts with 1 human partners:{Q99966}

3475 Pathogen[ P0C214] interacts with 1 human partners:{Q99966}

3476 Pathogen[ P03346] interacts with 1 human partners:{Q99966}

3477 Pathogen[ Q85601] interacts with 1 human partners:{Q99966}

3478 Pathogen[ P14079] interacts with 1 human partners:{Q99966}

3479 Pathogen[ P03410] interacts with 1 human partners:{Q99966}

3480 Pathogen[ P0C206] interacts with 1 human partners:{Q99966}

3481 [Cluster 576]GO:0051725+P biological\_process [name] protein de-ADP-ribosylation [def] "The process of removing one or more ADP-ribose residues from a protein." [GOC

3482 Pathogen[ P0C214] interacts with 1 human partners:{P54922}

3483 Pathogen[ P14079] interacts with 2 human partners:{P54922;Q8NDY3}

3484 Pathogen[ P03383] interacts with 1 human partners:{P54922}

3485 Pathogen[ P03410] interacts with 2 human partners:{Q8NDY3;P54922}

3486 Pathogen[ P14075] interacts with 1 human partners:{P54922}

3487 Pathogen[ P0C206] interacts with 1 human partners:{P54922}

3488 [Cluster 577]GO:0009082+P biological\_process [name] branched chain family amino acid biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of amino acids containing a branched carbon skeleton, comprising isoleucine, leucine and valine." [GOC

3489 Pathogen[ P0C214] interacts with 2 human partners:{O15382;P54687}

3490 Pathogen[ Q85601] interacts with 1 human partners:{O15382}

3491 Pathogen[ P14079] interacts with 1 human partners:{O15382}

3492 Pathogen[ P03410] interacts with 1 human partners:{O15382}

3493 Pathogen[ P0C206] interacts with 1 human partners:{O15382}

3494 [Cluster 578]GO:2000467+P biological\_process [name] positive regulation of glycogen (starch) synthase activity [def] "Any process that activates or increases the frequency, rate or extent of glycogen (starch) synthase activity." [GOC

3495 Pathogen[ P14079] interacts with 1 human partners:{B7ZBB8}

3496 Pathogen[ P03410] interacts with 1 human partners:{B7ZBB8}

3497 Pathogen[ P0C206] interacts with 1 human partners:{B7ZBB8}

3498 Pathogen[ P03363] interacts with 1 human partners:{B7ZBB8}

3499 [Cluster 579]GO:0043320+P biological\_process [name] natural killer cell degranulation [def] "The regulated exocytosis of secretory granules containing preformed mediators such as perforin and granzymes by a natural killer cell." [ISBN

3500 Pathogen[ P03346] interacts with 1 human partners:{Q70J99}

3501 Pathogen[ P03410] interacts with 1 human partners:{Q70J99}

3502 [Cluster 580]GO:2000987+P biological\_process [name] positive regulation of behavioral fear response [def] "Any process that activates or increases the frequency, rate or extent of behavioral fear response." [GOC

3503 Pathogen[ P14079] interacts with 1 human partners:{Q06413}

3504 [Cluster 581]GO:0032897+P biological\_process [name] negative regulation of viral transcription [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of viral transcription." [GOC

3505 Pathogen[ Q2Q067] interacts with 1 human partners:{P23497}

3506 Pathogen[ P0C214] interacts with 1 human partners:{P23497}

3507 Pathogen[ P03346] interacts with 1 human partners:{P23497}

3508 Pathogen[ P14079] interacts with 1 human partners:{P23497}

3509 Pathogen[ P03383] interacts with 1 human partners:{P23497}

3510 Pathogen[ P14075] interacts with 1 human partners:{P23497}

3511 Pathogen[ P03363] interacts with 1 human partners:{P23497}

3512 [Cluster 582]GO:0006883+P biological\_process [name] cellular sodium ion homeostasis [def] "Any process involved in the maintenance of an internal steady state of sodium

ions at the level of a cell." [GOC

3513 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96PU5}

3514 Pathogen[ POC214] interacts with 1 human partners:{Q96PU5}

3515 Pathogen[ P03346] interacts with 1 human partners:{Q96PU5}

3516 Pathogen[ Q85601] interacts with 1 human partners:{Q96PU5}

3517 Pathogen[ POC206] interacts with 1 human partners:{Q96PU5}

3518 Pathogen[ P03363] interacts with 1 human partners:{Q96PU5}

3519 [Cluster 583]GO:0009223+P biological\_process [name] pyrimidine deoxyribonucleotide catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of a pyrimidine deoxyribonucleotide, a compound consisting of nucleoside (a pyrimidine base linked to a deoxyribose sugar) esterified with a phosphate group at either the 3' or 5'-hydroxyl group of the sugar." [GOC

3520 Pathogen[ POC214] interacts with 1 human partners:{Q8TCD5}

3521 Pathogen[ P14079] interacts with 1 human partners:{Q8TCD5}

3522 Pathogen[ P03410] interacts with 1 human partners:{Q8TCD5}

3523 Pathogen[ POC206] interacts with 1 human partners:{Q8TCD5}

3524 [Cluster 584]GO:0019516+P biological\_process [name] lactate oxidation [def] "The chemical reactions and pathways resulting in the conversion of lactate to other compounds, such as pyruvate, with concomitant loss of electrons." [GOC

3525 Pathogen[ Q2Q067] interacts with 1 human partners:{P07864}

3526 Pathogen[ POC214] interacts with 1 human partners:{P07864}

3527 Pathogen[ Q85601] interacts with 1 human partners:{P07864}

3528 Pathogen[ P14079] interacts with 1 human partners:{P07864}

3529 Pathogen[ P03383] interacts with 1 human partners:{P07864}

3530 Pathogen[ P03410] interacts with 1 human partners:{P07864}

3531 Pathogen[ P14075] interacts with 1 human partners:{P07864}

3532 Pathogen[ POC206] interacts with 1 human partners:{P07864}

3533 [Cluster 585]GO:0043271+P biological\_process [name] negative regulation of ion transport [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the directed movement of charged atoms or small charged molecules into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore." [GOC

3534 Pathogen[ P14079] interacts with 1 human partners:{P24588}

3535 Pathogen[ P03410] interacts with 1 human partners:{P24588}

3536 [Cluster 586]GO:0051251+P biological\_process [name] positive regulation of lymphocyte activation [def] "Any process that activates or increases the frequency, rate or extent of lymphocyte activation." [GOC

3537 Pathogen[ P03346] interacts with 1 human partners:{O75995}

3538 [Cluster 587]GO:0045609+P biological\_process [name] positive regulation of auditory receptor cell differentiation [def] "Any process that activates or increases the frequency, rate or extent of auditory hair cell differentiation." [GOC

3539 Pathogen[ P03346] interacts with 1 human partners:{Q92858}

3540 [Cluster 588]GO:0036159+P

3541 Pathogen[ P14079] interacts with 1 human partners:{Q8IW40}

3542 Pathogen[ P03410] interacts with 1 human partners:{Q8IW40}

3543 Pathogen[ POC206] interacts with 1 human partners:{Q8IW40}

3544 Pathogen[ P03363] interacts with 1 human partners:{Q8IW40}

3545 [Cluster 589]GO:0050774+P biological\_process [name] negative regulation of dendrite morphogenesis [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of dendrite morphogenesis." [GOC

3546 Pathogen[ Q2Q067] interacts with 1 human partners:{Q04917}

3547 Pathogen[ POC214] interacts with 1 human partners:{Q04917}

3548 Pathogen[ P03346] interacts with 2 human partners:{Q04917;O43763}

3549 Pathogen[ Q85601] interacts with 1 human partners:{Q04917}

3550 Pathogen[ P14079] interacts with 1 human partners:{Q04917}

3551 Pathogen[ P03410] interacts with 1 human partners:{Q04917}

3552 Pathogen[ POC206] interacts with 2 human partners:{Q04917;O43763}

3553 Pathogen[ P03363] interacts with 2 human partners:{O43763;Q04917}

3554 [Cluster 590]GO:0021535+P biological\_process [name] cell migration in hindbrain [def] "The orderly movement of a cell that will reside in the hindbrain." [GO\_REF

3555 Pathogen[ Q2Q067] interacts with 1 human partners:{O14641}

3556 Pathogen[ POC214] interacts with 1 human partners:{O14641}

3557 Pathogen[ P03346] interacts with 1 human partners:{O14641}

3558 Pathogen[ Q85601] interacts with 1 human partners:{O14641}

3559 Pathogen[ P14079] interacts with 1 human partners:{O14641}

3560 Pathogen[ P03383] interacts with 1 human partners:{O14641}

3561 Pathogen[ P03410] interacts with 1 human partners:{O14641}

3562 Pathogen[ P14075] interacts with 1 human partners:{O14641}

3563 Pathogen[ P03363] interacts with 1 human partners:{O14641}

3564 [Cluster 591]GO:0060977+P biological\_process [name] coronary vasculature morphogenesis [def] "The process in which the anatomical structures of blood vessels of the heart are generated and organized. The blood vessel is the vasculature carrying blood." [GOC

3565 Pathogen[ P03346] interacts with 1 human partners:{Q9BYW2}

3566 [Cluster 592]GO:0015700+P biological\_process [name] arsenite transport [def] "The directed movement of arsenite into, out of or within a cell, or between cells, by means

of some agent such as a transporter or pore." [GOC  
3567 Pathogen[ POC214] interacts with 1 human partners:{043681}  
3568 Pathogen[ Q85601] interacts with 1 human partners:{043681}  
3569 Pathogen[ P14079] interacts with 1 human partners:{043681}  
3570 Pathogen[ P03410] interacts with 1 human partners:{043681}  
3571 Pathogen[ POC206] interacts with 1 human partners:{043681}  
3572 [Cluster 593]GO:0042158+P biological\_process [name] lipoprotein biosynthetic process  
[def] "The chemical reactions and pathways resulting in the formation of any conjugated,  
water-soluble protein in which the nonprotein group consists of a lipid or lipids."  
[ISBN  
3573 Pathogen[ P14079] interacts with 1 human partners:{P41238}  
3574 Pathogen[ P03410] interacts with 1 human partners:{P41238}  
3575 Pathogen[ POC206] interacts with 1 human partners:{P41238}  
3576 [Cluster 594]GO:2000392+P biological\_process [name] regulation of lamellipodium  
morphogenesis [def] "Any process that modulates the frequency, rate or extent of  
lamellipodium morphogenesis." [GOC  
3577 Pathogen[ P14079] interacts with 1 human partners:{P09327}  
3578 [Cluster 595]GO:0060535+P biological\_process [name] trachea cartilage morphogenesis  
[def] "The process in which the anatomical structures of cartilage in the trachea are  
generated and organized." [GOC  
3579 Pathogen[ Q2Q067] interacts with 1 human partners:{P20719}  
3580 Pathogen[ P03346] interacts with 1 human partners:{P20719}  
3581 Pathogen[ POC206] interacts with 1 human partners:{P20719}  
3582 Pathogen[ P03363] interacts with 1 human partners:{P20719}  
3583 [Cluster 596]GO:0019358+P biological\_process [name] nicotinate nucleotide salvage  
[def] "The generation of nicotinate nucleotide without de novo synthesis." [GOC  
3584 Pathogen[ Q2Q067] interacts with 1 human partners:{Q6XQN6}  
3585 Pathogen[ POC214] interacts with 1 human partners:{Q6XQN6}  
3586 Pathogen[ P03346] interacts with 1 human partners:{Q6XQN6}  
3587 Pathogen[ Q85601] interacts with 1 human partners:{Q6XQN6}  
3588 Pathogen[ P14079] interacts with 1 human partners:{Q6XQN6}  
3589 Pathogen[ P03410] interacts with 1 human partners:{Q6XQN6}  
3590 Pathogen[ P14075] interacts with 1 human partners:{Q6XQN6}  
3591 Pathogen[ POC206] interacts with 1 human partners:{Q6XQN6}  
3592 Pathogen[ P03363] interacts with 1 human partners:{Q6XQN6}  
3593 [Cluster 597]GO:0010609+P biological\_process [name] posttranscriptional regulation of  
gene expression by mRNA localization [def] "Any process that modulates the frequency,  
rate or extent of gene expression after the production of a mRNA transcript by its  
transport into, or maintainance in, a specific location within the cell." [GOC  
3594 Pathogen[ P03346] interacts with 1 human partners:{Q86XN8}  
3595 Pathogen[ POC206] interacts with 1 human partners:{Q86XN8}  
3596 [Cluster 598]GO:0072133+P biological\_process [name] metanephric mesenchyme  
morphogenesis [def] "The process in which the anatomical structures of a metanephric  
mesenchymal tissue are generated and organized. Metanephric mesenchyme is the tissue  
made up of loosely connected mesenchymal cells in the metanephros." [GOC  
3597 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13485}  
3598 Pathogen[ POC214] interacts with 1 human partners:{Q13485}  
3599 Pathogen[ P03346] interacts with 1 human partners:{Q13485}  
3600 Pathogen[ Q85601] interacts with 1 human partners:{Q13485}  
3601 Pathogen[ P03383] interacts with 1 human partners:{Q13485}  
3602 Pathogen[ P03410] interacts with 1 human partners:{Q13485}  
3603 Pathogen[ P14075] interacts with 1 human partners:{Q13485}  
3604 Pathogen[ POC206] interacts with 1 human partners:{Q13485}  
3605 Pathogen[ P03363] interacts with 1 human partners:{Q13485}  
3606 [Cluster 599]GO:0032796+P biological\_process [name] uropod organization [def] "A  
process that is carried out at the cellular level which results in the assembly,  
arrangement of constituent parts, or disassembly of a uropod, a rigid membrane  
projection with related cytoskeletal components at the trailing edge of a lymphocyte or  
other cell in the process of migrating or being activated." [GOC  
3607 Pathogen[ Q2Q067] interacts with 1 human partners:{P35579}  
3608 Pathogen[ P03346] interacts with 1 human partners:{P35579}  
3609 Pathogen[ Q85601] interacts with 1 human partners:{P35579}  
3610 Pathogen[ P14079] interacts with 1 human partners:{P35579}  
3611 Pathogen[ P03383] interacts with 1 human partners:{P35579}  
3612 Pathogen[ P03410] interacts with 1 human partners:{P35579}  
3613 Pathogen[ P14075] interacts with 1 human partners:{P35579}  
3614 Pathogen[ POC206] interacts with 1 human partners:{P35579}  
3615 Pathogen[ P03363] interacts with 1 human partners:{P35579}  
3616 [Cluster 600]GO:0045408+P biological\_process [name] regulation of interleukin-6  
biosynthetic process [def] "Any process that modulates the frequency, rate or extent  
of the chemical reactions and pathways resulting in the formation of interleukin-6."  
[GOC  
3617 Pathogen[ Q2Q067] interacts with 1 human partners:{P17676}  
3618 Pathogen[ POC214] interacts with 1 human partners:{P17676}  
3619 Pathogen[ P03346] interacts with 1 human partners:{P17676}  
3620 Pathogen[ Q85601] interacts with 1 human partners:{P17676}

3621 Pathogen[ P03383] interacts with 1 human partners:{P17676}

3622 Pathogen[ P03410] interacts with 1 human partners:{P17676}

3623 Pathogen[ P14075] interacts with 1 human partners:{P17676}

3624 Pathogen[ P0C206] interacts with 1 human partners:{P17676}

3625 Pathogen[ P03363] interacts with 1 human partners:{P17676}

3626 [Cluster 601]GO:0007176+P biological\_process [name] regulation of epidermal growth factor-activated receptor activity [def] "Any process that modulates the frequency, rate or extent of EGF-activated receptor activity." [GOC

3627 Pathogen[ Q2Q067] interacts with 1 human partners:{043639}

3628 Pathogen[ P0C214] interacts with 1 human partners:{043639}

3629 Pathogen[ P03346] interacts with 1 human partners:{043639}

3630 Pathogen[ Q85601] interacts with 1 human partners:{043639}

3631 Pathogen[ P14079] interacts with 1 human partners:{043639}

3632 Pathogen[ P03410] interacts with 1 human partners:{043639}

3633 Pathogen[ P0C206] interacts with 1 human partners:{043639}

3634 Pathogen[ P03363] interacts with 1 human partners:{043639}

3635 [Cluster 602]GO:0006536+P biological\_process [name] glutamate metabolic process [def] "The chemical reactions and pathways involving glutamate, the anion of 2-aminopentanedioic acid." [GOC

3636 Pathogen[ P0C214] interacts with 1 human partners:{Q8N159}

3637 Pathogen[ P14079] interacts with 1 human partners:{Q8N159}

3638 Pathogen[ P03383] interacts with 1 human partners:{Q8N159}

3639 Pathogen[ P03410] interacts with 1 human partners:{Q8N159}

3640 Pathogen[ P14075] interacts with 1 human partners:{Q8N159}

3641 Pathogen[ P0C206] interacts with 1 human partners:{Q8N159}

3642 [Cluster 603]GO:0072277+P biological\_process [name] metanephric glomerular capillary formation [def] "The process that gives rise to a metanephric glomerular capillary. This process pertains to the initial formation of a structure from unspecified parts." [GOC

3643 Pathogen[ P03346] interacts with 1 human partners:{043680}

3644 [Cluster 604]GO:0001759+P biological\_process [name] organ induction [def] "The interaction of two or more cells or tissues that causes them to change their fates and specify the development of an organ." [ISBN

3645 Pathogen[ Q2Q067] interacts with 1 human partners:{043248}

3646 Pathogen[ P0C214] interacts with 1 human partners:{043248}

3647 Pathogen[ P03346] interacts with 3 human partners:{P31270;Q15475;043248}

3648 Pathogen[ Q85601] interacts with 1 human partners:{043248}

3649 Pathogen[ P14079] interacts with 1 human partners:{Q8WU20}

3650 Pathogen[ P03410] interacts with 1 human partners:{Q8WU20}

3651 Pathogen[ P0C206] interacts with 2 human partners:{043248;Q8WU20}

3652 Pathogen[ P03363] interacts with 1 human partners:{043248}

3653 [Cluster 605]GO:0035984+P biological\_process [name] cellular response to trichostatin A [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a trichostatin A stimulus." [CHEBI

3654 Pathogen[ P14079] interacts with 1 human partners:{Q06413}

3655 [Cluster 606]GO:0001960+P biological\_process [name] negative regulation of cytokine-mediated signaling pathway [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the cytokine mediated signaling pathway." [GOC

3656 Pathogen[ Q2Q067] interacts with 1 human partners:{A6NDB9}

3657 Pathogen[ P03346] interacts with 1 human partners:{A6NDB9}

3658 Pathogen[ P14079] interacts with 1 human partners:{A6NDB9}

3659 Pathogen[ P03383] interacts with 1 human partners:{A6NDB9}

3660 Pathogen[ P03410] interacts with 1 human partners:{A6NDB9}

3661 Pathogen[ P14075] interacts with 1 human partners:{A6NDB9}

3662 Pathogen[ P0C206] interacts with 1 human partners:{A6NDB9}

3663 Pathogen[ P03363] interacts with 1 human partners:{A6NDB9}

3664 [Cluster 607]GO:0009157+P biological\_process [name] deoxyribonucleoside monophosphate biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of a deoxyribonucleoside monophosphate, a compound consisting of a nucleobase linked to a deoxyribose sugar esterified with phosphate on the sugar." [GOC

3665 Pathogen[ Q2Q067] interacts with 1 human partners:{P04818}

3666 Pathogen[ P0C214] interacts with 1 human partners:{P04818}

3667 Pathogen[ P14079] interacts with 1 human partners:{P04818}

3668 Pathogen[ P03410] interacts with 1 human partners:{P04818}

3669 Pathogen[ P0C206] interacts with 1 human partners:{P04818}

3670 [Cluster 608]GO:0010954+P biological\_process [name] positive regulation of protein processing [def] "Any process that increases the rate, frequency or extent of protein maturation by peptide bond cleavage." [GOC

3671 Pathogen[ P03346] interacts with 1 human partners:{Q969F2}

3672 Pathogen[ P03410] interacts with 1 human partners:{Q969F2}

3673 Pathogen[ P0C206] interacts with 1 human partners:{Q969F2}

3674 [Cluster 609]GO:0002446+P biological\_process [name] neutrophil mediated immunity [def] "Any process involved in the carrying out of an immune response by a neutrophil." [GO\_REF

3675 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8IZD2}

3676 Pathogen[ P0C214] interacts with 2 human partners:{Q99698;Q8IZD2}

3677 Pathogen[ P03346] interacts with 2 human partners:{Q99698;Q8IZD2}

3678 Pathogen[ Q85601] interacts with 2 human partners:{Q8IZD2;Q99698}

3679 Pathogen[ P14079] interacts with 1 human partners:{Q99698}

3680 Pathogen[ P03410] interacts with 1 human partners:{Q99698}

3681 Pathogen[ P0C206] interacts with 2 human partners:{Q99698;Q8IZD2}

3682 Pathogen[ P03363] interacts with 1 human partners:{Q99698}

3683 [Cluster 610]GO:0046649+P biological\_process [name] lymphocyte activation [def] "A change in morphology and behavior of a lymphocyte resulting from exposure to a specific antigen, mitogen, cytokine, chemokine, cellular ligand, or soluble factor." [GOC

3684 Pathogen[ P03346] interacts with 1 human partners:{Q8IWW1}

3685 Pathogen[ P14079] interacts with 1 human partners:{Q8IWW1}

3686 Pathogen[ P03410] interacts with 1 human partners:{Q8IWW1}

3687 Pathogen[ P14075] interacts with 1 human partners:{Q8IWW1}

3688 Pathogen[ P0C206] interacts with 1 human partners:{Q8IWW1}

3689 [Cluster 611]GO:0050805+P biological\_process [name] negative regulation of synaptic transmission [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of synaptic transmission, the process of communication from a neuron to a target (neuron, muscle, or secretory cell) across a synapse." [GOC

3690 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9H2P0}

3691 Pathogen[ P0C214] interacts with 1 human partners:{Q9H2P0}

3692 Pathogen[ P03346] interacts with 1 human partners:{Q9H2P0}

3693 Pathogen[ Q85601] interacts with 1 human partners:{Q9H2P0}

3694 Pathogen[ P14079] interacts with 1 human partners:{Q9H2P0}

3695 Pathogen[ P0C206] interacts with 1 human partners:{Q9H2P0}

3696 Pathogen[ P03363] interacts with 1 human partners:{Q9H2P0}

3697 [Cluster 612]GO:0060761+P biological\_process [name] negative regulation of response to cytokine stimulus [def] "Any process that decreases the rate, frequency, or extent of a response to cytokine stimulus." [GOC

3698 Pathogen[ P14079] interacts with 1 human partners:{Q13164}

3699 [Cluster 613]GO:0032972+P biological\_process [name] regulation of muscle filament sliding speed [def] "Any process that modulates the velocity of muscle filament sliding." [GOC

3700 Pathogen[ P03346] interacts with 1 human partners:{P63316}

3701 Pathogen[ P03410] interacts with 1 human partners:{P63316}

3702 [Cluster 614]GO:0006231+P biological\_process [name] dTMP biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of dTMP, deoxyribosylthymine monophosphate (2'-deoxyribosylthymine 5'-phosphate)." [ISBN

3703 Pathogen[ Q2Q067] interacts with 1 human partners:{P04818}

3704 Pathogen[ P0C214] interacts with 1 human partners:{P04818}

3705 Pathogen[ P14079] interacts with 1 human partners:{P04818}

3706 Pathogen[ P03410] interacts with 1 human partners:{P04818}

3707 Pathogen[ P0C206] interacts with 1 human partners:{P04818}

3708 [Cluster 615]GO:1900026+P

3709 Pathogen[ P14079] interacts with 1 human partners:{Q9H2D6}

3710 Pathogen[ P03410] interacts with 1 human partners:{Q9H2D6}

3711 Pathogen[ P03363] interacts with 1 human partners:{Q9H2D6}

3712 [Cluster 616]GO:0097053+P biological\_process [name] L-kynurenine catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of L-kynurenine, the L-enantiomer of the amino acid kynurenine (3-(2-aminobenzoyl)-alanine)." [CHEBI

3713 Pathogen[ Q2Q067] interacts with 1 human partners:{Q16719}

3714 Pathogen[ P0C214] interacts with 2 human partners:{Q16719;Q16773}

3715 Pathogen[ P03346] interacts with 1 human partners:{Q16719}

3716 Pathogen[ Q85601] interacts with 1 human partners:{Q16719}

3717 Pathogen[ P14079] interacts with 1 human partners:{Q16719}

3718 Pathogen[ P03383] interacts with 1 human partners:{Q16719}

3719 Pathogen[ P03410] interacts with 1 human partners:{Q16719}

3720 Pathogen[ P14075] interacts with 1 human partners:{Q16719}

3721 Pathogen[ P0C206] interacts with 1 human partners:{Q16719}

3722 [Cluster 617]GO:0001973+P biological\_process [name] adenosine receptor signaling pathway [def] "The series of molecular signals generated as a consequence of a receptor binding to extracellular adenosine and transmitting the signal to a heterotrimeric G-protein complex to initiate a change in cell activity." [GOC

3723 Pathogen[ Q2Q067] interacts with 1 human partners:{P78352}

3724 Pathogen[ P0C214] interacts with 1 human partners:{P78352}

3725 Pathogen[ P03346] interacts with 1 human partners:{P78352}

3726 Pathogen[ Q85601] interacts with 1 human partners:{P78352}

3727 Pathogen[ P03383] interacts with 1 human partners:{P78352}

3728 Pathogen[ P03410] interacts with 1 human partners:{P78352}

3729 Pathogen[ P14075] interacts with 1 human partners:{P78352}

3730 Pathogen[ P0C206] interacts with 1 human partners:{P78352}

3731 Pathogen[ P03363] interacts with 1 human partners:{P78352}

3732 [Cluster 618]GO:0032909+P biological\_process [name] regulation of transforming growth factor beta2 production [def] "Any process that modulates the frequency, rate, or extent of production of transforming growth factor-beta2." [GOC

3733 Pathogen[ Q2Q067] interacts with 2 human partners:{Q13485;P84022}

3734 Pathogen[ P0C214] interacts with 2 human partners:{P84022;Q13485}

3735 Pathogen[ P03346] interacts with 2 human partners:{P84022;Q13485}

3736 Pathogen[ Q85601] interacts with 2 human partners:{P84022;Q13485}

3737 Pathogen[ P03383] interacts with 2 human partners:{Q13485;P84022}

3738 Pathogen[ P03410] interacts with 2 human partners:{P84022;Q13485}

3739 Pathogen[ P14075] interacts with 2 human partners:{Q13485;P84022}

3740 Pathogen[ P0C206] interacts with 2 human partners:{P84022;Q13485}

3741 Pathogen[ P03363] interacts with 2 human partners:{P84022;Q13485}

3742 [Cluster 619]GO:0050982+P biological\_process [name] detection of mechanical stimulus  
[def] "The series of events by which a mechanical stimulus is received by a cell and converted into a molecular signal." [GOC

3743 Pathogen[ P14079] interacts with 1 human partners:{O15273}

3744 Pathogen[ P03410] interacts with 1 human partners:{O15273}

3745 [Cluster 620]GO:0046604+P biological\_process [name] positive regulation of mitotic centrosome separation [def] "Any process that activates or increases the frequency, rate or extent of centrosome separation." [GOC

3746 Pathogen[ Q2Q067] interacts with 1 human partners:{P43487}

3747 Pathogen[ P0C214] interacts with 1 human partners:{P43487}

3748 Pathogen[ P03346] interacts with 1 human partners:{P43487}

3749 Pathogen[ Q85601] interacts with 1 human partners:{P43487}

3750 Pathogen[ P03383] interacts with 1 human partners:{P43487}

3751 Pathogen[ P03410] interacts with 1 human partners:{P43487}

3752 Pathogen[ P14075] interacts with 1 human partners:{P43487}

3753 Pathogen[ P0C206] interacts with 1 human partners:{P43487}

3754 Pathogen[ P03363] interacts with 1 human partners:{P43487}

3755 [Cluster 621]GO:0045198+P biological\_process [name] establishment of epithelial cell apical/basal polarity [def] "The specification and formation of the apicobasal polarity of an epithelial cell." [GOC

3756 Pathogen[ P14079] interacts with 1 human partners:{Q8N205}

3757 Pathogen[ P03410] interacts with 1 human partners:{Q8N205}

3758 Pathogen[ P0C206] interacts with 1 human partners:{Q8N205}

3759 [Cluster 622]GO:0002860+P biological\_process [name] positive regulation of natural killer cell mediated cytotoxicity directed against tumor cell target [def] "Any process that activates or increases the frequency, rate, or extent of natural killer cell mediated cytotoxicity directed against tumor cell target." [GOC

3760 Pathogen[ P14079] interacts with 1 human partners:{P29459}

3761 Pathogen[ P03410] interacts with 1 human partners:{P29459}

3762 [Cluster 623]GO:0048007+P biological\_process [name] antigen processing and presentation, exogenous lipid antigen via MHC class Ib [def] "The process in which an antigen-presenting cell expresses lipid antigen of exogenous origin in association with an MHC class Ib protein complex on its cell surface. Class Ib here refers to non-classical class I molecules, such as those of the CD1 family." [GOC

3763 Pathogen[ P03346] interacts with 1 human partners:{O14617}

3764 Pathogen[ P14079] interacts with 1 human partners:{O14617}

3765 Pathogen[ P03410] interacts with 2 human partners:{O00203;O14617}

3766 Pathogen[ P0C206] interacts with 1 human partners:{O14617}

3767 [Cluster 624]GO:0033275+P biological\_process [name] actin-myosin filament sliding [def] "The sliding movement of actin thin filaments and myosin thick filaments past each other." [GOC

3768 Pathogen[ P14079] interacts with 1 human partners:{P68032}

3769 [Cluster 625]GO:0001507+P biological\_process [name] acetylcholine catabolic process in synaptic cleft [def] "The chemical reactions and pathways resulting in the breakdown of acetylcholine that occurs in the synaptic cleft during synaptic transmission." [GOC

3770 Pathogen[ P03346] interacts with 1 human partners:{Q9Y215}

3771 Pathogen[ P03410] interacts with 1 human partners:{Q9Y215}

3772 Pathogen[ P03363] interacts with 1 human partners:{Q9Y215}

3773 [Cluster 626]GO:0043313+P biological\_process [name] regulation of neutrophil degranulation [def] "Any process that modulates the frequency, rate, or extent of neutrophil degranulation." [ISBN

3774 Pathogen[ P03346] interacts with 1 human partners:{Q96QH2}

3775 Pathogen[ P14079] interacts with 1 human partners:{Q96QH2}

3776 Pathogen[ P03410] interacts with 1 human partners:{Q96QH2}

3777 Pathogen[ P0C206] interacts with 1 human partners:{Q96QH2}

3778 Pathogen[ P03363] interacts with 1 human partners:{Q96QH2}

3779 [Cluster 627]GO:0010447+P biological\_process [name] response to acidity [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a pH stimulus with pH < 7." [GOC

3780 Pathogen[ Q2Q067] interacts with 1 human partners:{Q15833}

3781 Pathogen[ P0C214] interacts with 1 human partners:{Q15833}

3782 Pathogen[ P03346] interacts with 1 human partners:{Q15833}

3783 Pathogen[ Q85601] interacts with 1 human partners:{Q15833}

3784 Pathogen[ P14079] interacts with 1 human partners:{Q15833}

3785 Pathogen[ P03410] interacts with 1 human partners:{Q15833}

3786 Pathogen[ P0C206] interacts with 1 human partners:{Q15833}

3787 Pathogen[ P03363] interacts with 1 human partners:{Q15833}

3788 [Cluster 628]GO:0042157+P biological\_process [name] lipoprotein metabolic process  
[def] "The chemical reactions and pathways involving any conjugated, water-soluble protein in which the nonprotein group consists of a lipid or lipids." [ISBN

3789 Pathogen[ P14079] interacts with 1 human partners:{P41238}

3790 Pathogen[ P03410] interacts with 2 human partners:{P41238;P55157}

3791 Pathogen[ P0C206] interacts with 1 human partners:{P41238}

3792 [Cluster 629]GO:0030323+P biological\_process [name] respiratory tube development  
[def] "The process whose specific outcome is the progression of the respiratory tube over time, from its formation to the mature structure. The respiratory tube is assumed to mean any tube in the respiratory tract." [GOC

3793 Pathogen[ P03346] interacts with 3 human partners:{O15522;Q9UBI9;Q9BUZ4}

3794 Pathogen[ P14079] interacts with 2 human partners:{Q9BUZ4;Q9UBI9}

3795 Pathogen[ P03383] interacts with 1 human partners:{Q9UBI9}

3796 Pathogen[ P03410] interacts with 1 human partners:{Q9UBI9}

3797 Pathogen[ P14075] interacts with 1 human partners:{Q9UBI9}

3798 Pathogen[ P0C206] interacts with 2 human partners:{Q9BUZ4;Q9UBI9}

3799 Pathogen[ P03363] interacts with 3 human partners:{Q9UBI9;Q9BUZ4;O15522}

3800 [Cluster 630]GO:0032914+P biological\_process [name] positive regulation of transforming growth factor beta1 production [def] "Any process that activates or increases the frequency, rate, or extent of production of transforming growth factor-beta1." [GOC

3801 Pathogen[ P14079] interacts with 1 human partners:{O75787}

3802 Pathogen[ P03410] interacts with 1 human partners:{O75787}

3803 Pathogen[ P0C206] interacts with 1 human partners:{O75787}

3804 [Cluster 631]GO:0003062+P biological\_process [name] regulation of heart rate by chemical signal [def] "The regulation of the rate of heart contraction mediated by chemical signaling, hormonal, autocrine or paracrine." [GOC

3805 Pathogen[ Q2Q067] interacts with 1 human partners:{P36956}

3806 Pathogen[ P03346] interacts with 1 human partners:{P36956}

3807 Pathogen[ Q85601] interacts with 1 human partners:{P36956}

3808 Pathogen[ P14079] interacts with 1 human partners:{P36956}

3809 Pathogen[ P03410] interacts with 1 human partners:{P36956}

3810 Pathogen[ P0C206] interacts with 1 human partners:{P36956}

3811 [Cluster 632]GO:0043137+P biological\_process [name] DNA replication, removal of RNA primer [def] "Removal of the Okazaki RNA primer from the lagging strand of replicating DNA, by a combination of the actions of DNA polymerase, DNA helicase and an endonuclease." [GOC

3812 Pathogen[ Q2Q067] interacts with 1 human partners:{P39748}

3813 Pathogen[ P0C214] interacts with 1 human partners:{P39748}

3814 Pathogen[ P03346] interacts with 1 human partners:{P39748}

3815 Pathogen[ Q85601] interacts with 1 human partners:{P39748}

3816 Pathogen[ P14079] interacts with 2 human partners:{Q5QGS0;P39748}

3817 Pathogen[ P03410] interacts with 2 human partners:{Q5QGS0;P39748}

3818 Pathogen[ P0C206] interacts with 1 human partners:{P39748}

3819 [Cluster 633]GO:0002369+P biological\_process [name] T cell cytokine production  
[def] "Any process that contributes to cytokine production by a T cell." [GOC

3820 Pathogen[ Q2Q067] interacts with 1 human partners:{Q12959}

3821 Pathogen[ P0C214] interacts with 1 human partners:{Q12959}

3822 Pathogen[ P03346] interacts with 1 human partners:{Q12959}

3823 Pathogen[ Q85601] interacts with 1 human partners:{Q12959}

3824 Pathogen[ P03410] interacts with 1 human partners:{Q12959}

3825 Pathogen[ P0C206] interacts with 1 human partners:{Q12959}

3826 Pathogen[ P03363] interacts with 1 human partners:{Q12959}

3827 [Cluster 634]GO:0042908+P biological\_process [name] xenobiotic transport [def] "The directed movement of a xenobiotic, a compound foreign to living organisms, into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore." [GOC

3828 Pathogen[ Q2Q067] interacts with 1 human partners:{P11166}

3829 Pathogen[ P0C214] interacts with 1 human partners:{P11166}

3830 Pathogen[ P03346] interacts with 2 human partners:{P11166;O75469}

3831 Pathogen[ Q85601] interacts with 1 human partners:{P11166}

3832 Pathogen[ P14079] interacts with 2 human partners:{P11166;O75469}

3833 Pathogen[ P03410] interacts with 1 human partners:{P11166}

3834 Pathogen[ P0C206] interacts with 2 human partners:{O75469;P11166}

3835 Pathogen[ P03363] interacts with 1 human partners:{P11166}

3836 [Cluster 635]GO:0007200+P biological\_process [name] activation of phospholipase C activity by G-protein coupled receptor protein signaling pathway coupled to IP3 second messenger [def] "The series of molecular signals generated as a consequence of a G-protein coupled receptor binding to its physiological ligand, followed by the activation of phospholipase C and the subsequent release of inositol trisphosphate." [GOC

3837 Pathogen[ Q2Q067] interacts with 1 human partners:{P21980}

3838 Pathogen[ P0C214] interacts with 1 human partners:{P21980}

3839 Pathogen[ P03346] interacts with 1 human partners:{P21980}

3840 Pathogen[ Q85601] interacts with 1 human partners:{P21980}

3841 Pathogen[ P14079] interacts with 2 human partners:{P21980;O43612}

3842 Pathogen[ P03383] interacts with 1 human partners:{P21980}

3843 Pathogen[ P03410] interacts with 2 human partners:{O43612;P21980}

3844 Pathogen[ P14075] interacts with 1 human partners:{P21980}

3845 Pathogen[ POC206] interacts with 1 human partners:{P21980}

3846 [Cluster 636]GO:0042119+P biological\_process [name] neutrophil activation [def] "The change in morphology and behavior of a neutrophil resulting from exposure to a cytokine, chemokine, cellular ligand, or soluble factor." [GOC

3847 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8IZD2}

3848 Pathogen[ POC214] interacts with 1 human partners:{Q8IZD2}

3849 Pathogen[ P03346] interacts with 1 human partners:{Q8IZD2}

3850 Pathogen[ Q85601] interacts with 1 human partners:{Q8IZD2}

3851 Pathogen[ POC206] interacts with 1 human partners:{Q8IZD2}

3852 [Cluster 637]GO:0000050+P biological\_process [name] urea cycle [def] "The sequence of reactions by which arginine is synthesized from ornithine, then cleaved to yield urea and regenerate ornithine. The overall reaction equation is  $\text{NH}_3 + \text{CO}_2 + \text{aspartate} + 3 \text{ATP} + 2 \text{H}_2\text{O} = \text{urea} + \text{fumarate} + 2 \text{ADP} + 2 \text{phosphate} + \text{AMP} + \text{diphosphate}$ ." [GOC

3853 Pathogen[ Q2Q067] interacts with 1 human partners:{P49715}

3854 Pathogen[ POC214] interacts with 3 human partners:{P00480;P04424;Q8N159}

3855 Pathogen[ P03346] interacts with 1 human partners:{P49715}

3856 Pathogen[ Q85601] interacts with 2 human partners:{P00480;P49715}

3857 Pathogen[ P14079] interacts with 4 human partners:{Q8N159;P49715;P00480;P04424}

3858 Pathogen[ P03383] interacts with 1 human partners:{Q8N159}

3859 Pathogen[ P03410] interacts with 3 human partners:{Q8N159;P04424;P00480}

3860 Pathogen[ P14075] interacts with 1 human partners:{Q8N159}

3861 Pathogen[ POC206] interacts with 3 human partners:{P49715;Q8N159;P00480}

3862 [Cluster 638]GO:0043697+P biological\_process [name] cell dedifferentiation [def] "The process in which a specialized cell loses the structural or functional features that characterize it in the mature organism, or some other relatively stable phase of the organism's life history. Under certain conditions, these cells can revert back to the features of the stem cells that were their ancestors." [GOC

3863 Pathogen[ Q2Q067] interacts with 1 human partners:{Q00534}

3864 Pathogen[ POC214] interacts with 1 human partners:{Q00534}

3865 Pathogen[ P03346] interacts with 1 human partners:{Q00534}

3866 Pathogen[ Q85601] interacts with 1 human partners:{Q00534}

3867 Pathogen[ P03383] interacts with 1 human partners:{Q00534}

3868 Pathogen[ P03410] interacts with 1 human partners:{Q00534}

3869 Pathogen[ P14075] interacts with 1 human partners:{Q00534}

3870 Pathogen[ POC206] interacts with 1 human partners:{Q00534}

3871 Pathogen[ P03363] interacts with 1 human partners:{Q00534}

3872 [Cluster 639]GO:0051534+P biological\_process [name] negative regulation of NFAT protein import into nucleus [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the movement of an NFAT protein from the cytoplasm to the nucleus." [GOC

3873 Pathogen[ P14079] interacts with 1 human partners:{Q13164}

3874 [Cluster 640]GO:0007033+P biological\_process [name] vacuole organization [def] "A process that is carried out at the cellular level which results in the assembly, arrangement of constituent parts, or disassembly of a vacuole." [GOC

3875 Pathogen[ Q2Q067] interacts with 1 human partners:{Q92562}

3876 Pathogen[ POC214] interacts with 1 human partners:{Q92562}

3877 Pathogen[ P03346] interacts with 1 human partners:{Q92562}

3878 Pathogen[ Q85601] interacts with 1 human partners:{Q92562}

3879 Pathogen[ P14079] interacts with 1 human partners:{Q92562}

3880 Pathogen[ P03410] interacts with 1 human partners:{Q92562}

3881 Pathogen[ POC206] interacts with 1 human partners:{Q92562}

3882 [Cluster 641]GO:0051013+P biological\_process [name] microtubule severing [def] "The process in which a microtubule is broken down into smaller segments." [GOC

3883 Pathogen[ P03346] interacts with 2 human partners:{Q8N841;Q9UBP0}

3884 Pathogen[ Q85601] interacts with 2 human partners:{Q9UBP0;Q9BVA0}

3885 Pathogen[ P14079] interacts with 2 human partners:{Q8N841;Q9BVA0}

3886 Pathogen[ P03410] interacts with 2 human partners:{Q8N841;Q9BVA0}

3887 Pathogen[ POC206] interacts with 3 human partners:{Q9BVA0;Q9UBP0;Q8N841}

3888 Pathogen[ P03363] interacts with 1 human partners:{Q8N841}

3889 [Cluster 642]GO:0035459+P biological\_process [name] cargo loading into vesicle [def] "The formation of a protein complex between the coat proteins and proteins that are going to be transported by a vesicle." [GOC

3890 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9H1H9}

3891 Pathogen[ P03346] interacts with 3 human partners:{Q9H1H9;P49755;Q15363}

3892 Pathogen[ Q85601] interacts with 1 human partners:{Q9H1H9}

3893 Pathogen[ P14079] interacts with 3 human partners:{Q15363;P49755;Q9H1H9}

3894 Pathogen[ P03383] interacts with 1 human partners:{Q9H1H9}

3895 Pathogen[ P03410] interacts with 2 human partners:{Q9H1H9;Q15363}

3896 Pathogen[ P14075] interacts with 1 human partners:{Q9H1H9}

3897 Pathogen[ POC206] interacts with 3 human partners:{P49755;Q9H1H9;Q15363}

3898 Pathogen[ P03363] interacts with 1 human partners:{Q9H1H9}

3899 [Cluster 643]GO:0002606+P biological\_process [name] positive regulation of dendritic



cell antigen processing and presentation [def] "Any process that activates or increases the frequency, rate, or extent of dendritic cell antigen processing and presentation." [GOC

3900 Pathogen[ P14079] interacts with 1 human partners:{Q9Y239}

3901 Pathogen[ P03410] interacts with 1 human partners:{Q9Y239}

3902 [Cluster 644]GO:0042982+P biological\_process [name] amyloid precursor protein metabolic process [def] "The chemical reactions and pathways involving amyloid precursor protein (APP), the precursor of beta-amyloid, a glycoprotein associated with Alzheimer's disease." [GOC

3903 Pathogen[ Q2Q067] interacts with 1 human partners:{Q12959}

3904 Pathogen[ P0C214] interacts with 1 human partners:{Q12959}

3905 Pathogen[ P03346] interacts with 1 human partners:{Q12959}

3906 Pathogen[ Q85601] interacts with 1 human partners:{Q12959}

3907 Pathogen[ P03410] interacts with 1 human partners:{Q12959}

3908 Pathogen[ P0C206] interacts with 1 human partners:{Q12959}

3909 Pathogen[ P03363] interacts with 1 human partners:{Q12959}

3910 [Cluster 645]GO:0051057+P biological\_process [name] positive regulation of small GTPase mediated signal transduction [def] "Any process that activates or increases the frequency, rate or extent of small GTPase mediated signal transduction." [GOC

3911 Pathogen[ Q2Q067] interacts with 1 human partners:{Q12982}

3912 Pathogen[ P0C214] interacts with 1 human partners:{Q12982}

3913 Pathogen[ P03346] interacts with 1 human partners:{Q12982}

3914 Pathogen[ Q85601] interacts with 1 human partners:{Q12982}

3915 Pathogen[ P14079] interacts with 1 human partners:{Q12982}

3916 Pathogen[ P03410] interacts with 1 human partners:{Q12982}

3917 Pathogen[ P0C206] interacts with 1 human partners:{Q12982}

3918 Pathogen[ P03363] interacts with 1 human partners:{Q12982}

3919 [Cluster 646]GO:0015853+P biological\_process [name] adenine transport [def] "The directed movement of adenine, 6-aminopurine, into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore." [GOC

3920 Pathogen[ P03410] interacts with 1 human partners:{P05141}

3921 [Cluster 647]GO:0046952+P biological\_process [name] ketone body catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of ketone bodies, any one of the three substances

3922 Pathogen[ P03410] interacts with 2 human partners:{Q9BYC2;P55809}

3923 [Cluster 648]GO:2000727+P biological\_process [name] positive regulation of cardiac muscle cell differentiation [def] "Any process that activates or increases the frequency, rate or extent of cardiac muscle cell differentiation." [GOC

3924 Pathogen[ P14079] interacts with 1 human partners:{Q06413}

3925 [Cluster 649]GO:0030210+P biological\_process [name] heparin biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of heparin, any member of a group of glycosaminoglycans of average Mr (6000-20000), consisting predominantly of alternating alpha-(1->4)-linked D-galactose and N-acetyl-D-glucosamine-6-sulfate residues." [GOC

3926 Pathogen[ P14079] interacts with 1 human partners:{O94923}

3927 [Cluster 650]GO:0048846+P biological\_process [name] axon extension involved in axon guidance [def] "The long distance growth of a single cell process, that is involved in the migration of an axon growth cone, where the migration is directed to a specific target site by a combination of attractive and repulsive cues." [GOC

3928 Pathogen[ P03346] interacts with 1 human partners:{Q9UJU5}

3929 Pathogen[ P03363] interacts with 1 human partners:{Q9UJU5}

3930 [Cluster 651]GO:0014040+P biological\_process [name] positive regulation of Schwann cell differentiation [def] "Any process that activates or increases the frequency, rate or extent of Schwann cell differentiation." [GOC

3931 Pathogen[ Q2Q067] interacts with 1 human partners:{Q04206}

3932 Pathogen[ P0C214] interacts with 1 human partners:{Q04206}

3933 Pathogen[ P03346] interacts with 1 human partners:{Q04206}

3934 Pathogen[ Q85601] interacts with 1 human partners:{Q04206}

3935 Pathogen[ P03383] interacts with 1 human partners:{Q04206}

3936 Pathogen[ P03410] interacts with 1 human partners:{Q04206}

3937 Pathogen[ P14075] interacts with 1 human partners:{Q04206}

3938 Pathogen[ P0C206] interacts with 1 human partners:{Q04206}

3939 Pathogen[ P03363] interacts with 1 human partners:{Q04206}

3940 [Cluster 652]GO:0006750+P biological\_process [name] glutathione biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of glutathione, the tripeptide glutamylcysteinylglycine, which acts as a coenzyme for some enzymes and as an antioxidant in the protection of sulfhydryl groups in enzymes and other proteins." [CHEBI

3941 Pathogen[ Q2Q067] interacts with 2 human partners:{Q16775;Q8N490}

3942 Pathogen[ P0C214] interacts with 4 human partners:{Q16775;Q6PII5;O75223;Q8N490}

3943 Pathogen[ P03346] interacts with 2 human partners:{Q8N490;Q16775}

3944 Pathogen[ Q85601] interacts with 3 human partners:{Q6PII5;Q16775;Q8N490}

3945 Pathogen[ P14079] interacts with 7 human partners:{O75223;O14841;Q16873;Q96KP4;Q8N490;P20292;Q16775}

3946 Pathogen[ P03383] interacts with 2 human partners:{Q16775;Q8N490}

3947 Pathogen[ P03410] interacts with 7 human

partners:{Q8N490;Q6PII5;O14841;Q16775;Q16873;O75223;P20292}  
 3948 Pathogen[ P14075] interacts with 2 human partners:{Q8N490;Q16775}  
 3949 Pathogen[ POC206] interacts with 4 human partners:{Q6PII5;Q16775;Q8N490;P20292}  
 3950 [Cluster 653]GO:0097350+P  
 3951 Pathogen[ P14079] interacts with 1 human partners:{P04083}  
 3952 [Cluster 654]GO:0045061+P biological\_process [name] thymic T cell selection [def]  
 "The process of T cell selection that occurs in the thymus." [ISBN  
 3953 Pathogen[ P14079] interacts with 1 human partners:{Q9BXL7}  
 3954 Pathogen[ P03410] interacts with 1 human partners:{Q9BXL7}  
 3955 [Cluster 655]GO:0006734+P biological\_process [name] NADH metabolic process [def]  
 "The chemical reactions and pathways involving reduced nicotinamide adenine dinucleotide  
 (NADH), a coenzyme present in most living cells and derived from the B vitamin nicotinic  
 acid." [GOC  
 3956 Pathogen[ Q2Q067] interacts with 1 human partners:{P40926}  
 3957 Pathogen[ POC214] interacts with 6 human  
 partners:{P40926;P50213;O43837;P36957;P51553;P21695}  
 3958 Pathogen[ P03346] interacts with 1 human partners:{P40926}  
 3959 Pathogen[ Q85601] interacts with 1 human partners:{P40926}  
 3960 Pathogen[ P14079] interacts with 1 human partners:{P21695}  
 3961 Pathogen[ P03383] interacts with 1 human partners:{P40926}  
 3962 Pathogen[ P03410] interacts with 2 human partners:{P40926;P21695}  
 3963 Pathogen[ P14075] interacts with 1 human partners:{P40926}  
 3964 Pathogen[ POC206] interacts with 2 human partners:{P50213;P40926}  
 3965 [Cluster 656]GO:0051935+P biological\_process [name] glutamate uptake involved in  
 synaptic transmission [def] "The uptake of L-glutamate by neurons or glial cells. This  
 process leads to inactivation and recycling of neurotransmitters." [ISBN  
 3966 Pathogen[ P03410] interacts with 1 human partners:{Q9UBY8}  
 3967 [Cluster 657]GO:0080134+P biological\_process [name] regulation of response to stress  
 [def] "Any process that modulates the frequency, rate or extent of a response to stress.  
 Response to stress is a change in state or activity of a cell or an organism (in terms  
 of movement, secretion, enzyme production, gene expression, etc.) as a result of a  
 disturbance in organismal or cellular homeostasis, usually, but not necessarily,  
 exogenous (e.g. temperature, humidity, ionizing radiation)." [GOC  
 3968 Pathogen[ P03346] interacts with 1 human partners:{Q9UHD1}  
 3969 Pathogen[ Q85601] interacts with 1 human partners:{Q9UHD1}  
 3970 Pathogen[ P14079] interacts with 1 human partners:{Q9UHD1}  
 3971 Pathogen[ P03410] interacts with 1 human partners:{Q9UHD1}  
 3972 Pathogen[ POC206] interacts with 1 human partners:{Q9UHD1}  
 3973 [Cluster 658]GO:0045329+P biological\_process [name] carnitine biosynthetic process  
 [def] "The chemical reactions and pathways resulting in the formation of carnitine  
 (hydroxy-trimethyl aminobutyric acid), a compound that participates in the transfer of  
 acyl groups across the inner mitochondrial membrane." [GOC  
 3974 Pathogen[ Q2Q067] interacts with 1 human partners:{P34896}  
 3975 Pathogen[ POC214] interacts with 2 human partners:{Q9NVH6;P34896}  
 3976 Pathogen[ Q85601] interacts with 1 human partners:{P34896}  
 3977 Pathogen[ P14079] interacts with 2 human partners:{Q9NVH6;P34896}  
 3978 Pathogen[ P03383] interacts with 1 human partners:{P34896}  
 3979 Pathogen[ P03410] interacts with 2 human partners:{Q9NVH6;P34896}  
 3980 Pathogen[ P14075] interacts with 2 human partners:{Q9NVH6;P34896}  
 3981 Pathogen[ POC206] interacts with 2 human partners:{Q9NVH6;P34896}  
 3982 [Cluster 659]GO:0044344+P biological\_process [name] cellular response to fibroblast  
 growth factor stimulus [def] "Any process that results in a change in state or activity  
 of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as  
 a result of an fibroblast growth factor stimulus." [GOC  
 3983 Pathogen[ Q2Q067] interacts with 1 human partners:{P22736}  
 3984 Pathogen[ P03346] interacts with 1 human partners:{P22736}  
 3985 Pathogen[ Q85601] interacts with 1 human partners:{P22736}  
 3986 Pathogen[ P14079] interacts with 1 human partners:{P22736}  
 3987 Pathogen[ P03410] interacts with 1 human partners:{P22736}  
 3988 Pathogen[ POC206] interacts with 1 human partners:{P22736}  
 3989 [Cluster 660]GO:0002034+P biological\_process [name] regulation of blood vessel size  
 by renin-angiotensin [def] "The process in which the diameter of a blood vessel is  
 changed due to activity of the renin-angiotensin system." [GOC  
 3990 Pathogen[ Q2Q067] interacts with 1 human partners:{P08697}  
 3991 Pathogen[ POC214] interacts with 1 human partners:{P08697}  
 3992 Pathogen[ Q85601] interacts with 1 human partners:{P08697}  
 3993 Pathogen[ P03383] interacts with 1 human partners:{P08697}  
 3994 Pathogen[ P03410] interacts with 1 human partners:{P08697}  
 3995 Pathogen[ P14075] interacts with 1 human partners:{P08697}  
 3996 Pathogen[ POC206] interacts with 1 human partners:{P08697}  
 3997 [Cluster 661]GO:0042823+P biological\_process [name] pyridoxal phosphate biosynthetic  
 process [def] "The chemical reactions and pathways resulting in the formation of  
 pyridoxal phosphate, pyridoxal phosphorylated at the hydroxymethyl group of C-5, the  
 active form of vitamin B6." [GOC  
 3998 Pathogen[ P14079] interacts with 1 human partners:{Q9NVS9}  
 3999 Pathogen[ P03410] interacts with 1 human partners:{Q9NVS9}

4000 Pathogen[ P14075] interacts with 1 human partners:{Q9NVS9}

4001 [Cluster 662]GO:0009405+P biological\_process [name] pathogenesis [def] "The set of specific processes that generate the ability of an organism to cause disease in another." [GOC

4002 Pathogen[ Q2Q067] interacts with 1 human partners:{Q86X55}

4003 Pathogen[ P0C214] interacts with 1 human partners:{Q86X55}

4004 Pathogen[ P03346] interacts with 1 human partners:{Q86X55}

4005 Pathogen[ Q85601] interacts with 1 human partners:{Q86X55}

4006 Pathogen[ P03383] interacts with 1 human partners:{Q86X55}

4007 Pathogen[ P03410] interacts with 1 human partners:{Q86X55}

4008 Pathogen[ P14075] interacts with 1 human partners:{Q86X55}

4009 Pathogen[ P0C206] interacts with 1 human partners:{Q86X55}

4010 Pathogen[ P03363] interacts with 1 human partners:{Q86X55}

4011 [Cluster 663]GO:0072144+P biological\_process [name] glomerular mesangial cell development [def] "The process whose specific outcome is the progression of a glomerular mesangial cell in the kidney over time, from its formation to the mature structure." [GOC

4012 Pathogen[ P0C214] interacts with 1 human partners:{P62736}

4013 Pathogen[ P03346] interacts with 1 human partners:{P62736}

4014 Pathogen[ Q85601] interacts with 1 human partners:{P62736}

4015 Pathogen[ P03410] interacts with 1 human partners:{P62736}

4016 Pathogen[ P0C206] interacts with 1 human partners:{P62736}

4017 Pathogen[ P03363] interacts with 1 human partners:{P62736}

4018 [Cluster 664]GO:0050778+P biological\_process [name] positive regulation of immune response [def] "Any process that activates or increases the frequency, rate or extent of the immune response, the immunological reaction of an organism to an immunogenic stimulus." [GOC

4019 Pathogen[ P14079] interacts with 1 human partners:{Q8IU54}

4020 [Cluster 665]GO:0018393+P biological\_process [name] internal peptidyl-lysine acetylation [def] "The addition of an acetyl group to a non-terminal lysine residue in a protein." [GOC

4021 Pathogen[ Q2Q067] interacts with 1 human partners:{Q92831}

4022 Pathogen[ P0C214] interacts with 2 human partners:{P46379;Q92831}

4023 Pathogen[ P03346] interacts with 2 human partners:{Q92831;P46379}

4024 Pathogen[ Q85601] interacts with 2 human partners:{P46379;Q92831}

4025 Pathogen[ P03383] interacts with 1 human partners:{Q92831}

4026 Pathogen[ P03410] interacts with 1 human partners:{Q92831}

4027 Pathogen[ P14075] interacts with 1 human partners:{Q92831}

4028 Pathogen[ P0C206] interacts with 2 human partners:{Q92831;P46379}

4029 Pathogen[ P03363] interacts with 2 human partners:{P46379;Q92831}

4030 [Cluster 666]GO:0032410+P biological\_process [name] negative regulation of transporter activity [def] "Any process that stops or reduces the activity of a transporter." [GOC

4031 Pathogen[ P0C214] interacts with 2 human partners:{O00308;Q9NV92}

4032 Pathogen[ P03346] interacts with 2 human partners:{Q9NV92;O00308}

4033 Pathogen[ P14079] interacts with 1 human partners:{Q9NV92}

4034 Pathogen[ P03410] interacts with 1 human partners:{Q9NV92}

4035 Pathogen[ P14075] interacts with 1 human partners:{Q9NV92}

4036 Pathogen[ P0C206] interacts with 2 human partners:{O00308;Q9NV92}

4037 Pathogen[ P03363] interacts with 1 human partners:{O00308}

4038 [Cluster 667]GO:0021680+P biological\_process [name] cerebellar Purkinje cell layer development [def] "The process whose specific outcome is the progression of the cerebellar Purkinje cell layer over time, from its formation to the mature structure. The Purkinje cell layer lies just underneath the molecular layer of the cerebellar cortex. It contains the neuronal cell bodies of the Purkinje cells that are arranged side by side in a single layer. Candelabrum interneurons are vertically oriented between the Purkinje cells. Purkinje neurons are inhibitory and provide the output of the cerebellar cortex through axons that project into the white matter. Extensive dendritic trees from the Purkinje cells extend upward in a single plane into the molecular layer where they synapse with parallel fibers of granule cells." [GO\_REF

4039 Pathogen[ P0C214] interacts with 2 human partners:{P35580;P49588}

4040 Pathogen[ Q85601] interacts with 1 human partners:{P35580}

4041 Pathogen[ P14079] interacts with 3 human partners:{Q9UPW5;O14949;P49588}

4042 Pathogen[ P03383] interacts with 1 human partners:{P35580}

4043 Pathogen[ P03410] interacts with 4 human partners:{Q9UPW5;P49588;P35580;O14949}

4044 Pathogen[ P0C206] interacts with 2 human partners:{Q9UPW5;P35580}

4045 [Cluster 668]GO:0010921+P biological\_process [name] regulation of phosphatase activity [def] "Any process that modulates the rate or frequency of phosphatase activity. Phosphatases catalyze the hydrolysis of phosphoric monoesters, releasing inorganic phosphate." [GOC

4046 Pathogen[ P14079] interacts with 2 human partners:{Q7Z4L9;O96001}

4047 Pathogen[ P03410] interacts with 2 human partners:{Q7Z4L9;O96001}

4048 [Cluster 669]GO:0019318+P biological\_process [name] hexose metabolic process [def] "The chemical reactions and pathways involving a hexose, any monosaccharide with a chain of six carbon atoms in the molecule." [ISBN

4049 Pathogen[ Q2Q067] interacts with 1 human partners:{P19367}

4050 Pathogen[ P0C214] interacts with 1 human partners:{P19367}

4051 Pathogen[ P03346] interacts with 1 human partners:{P19367}

4052 Pathogen[ Q85601] interacts with 1 human partners:{P19367}

4053 Pathogen[ P14079] interacts with 1 human partners:{Q96C23}

4054 Pathogen[ P03383] interacts with 1 human partners:{P19367}

4055 Pathogen[ P03410] interacts with 1 human partners:{Q96C23}

4056 Pathogen[ P14075] interacts with 1 human partners:{P19367}

4057 Pathogen[ P0C206] interacts with 2 human partners:{P19367;Q96C23}

4058 [Cluster 670]GO:0010836+P biological\_process [name] negative regulation of protein ADP-ribosylation [def] "Any process that decreases the frequency, rate or extent of protein ADP-ribosylation. Protein ADP-ribosylation is the transfer, from NAD, of ADP-ribose to protein amino acids." [GOC

4059 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BSI4}

4060 Pathogen[ P0C214] interacts with 1 human partners:{Q9BSI4}

4061 Pathogen[ P03346] interacts with 1 human partners:{Q9BSI4}

4062 Pathogen[ P14079] interacts with 1 human partners:{Q9BSI4}

4063 Pathogen[ P03383] interacts with 1 human partners:{Q9BSI4}

4064 Pathogen[ P03410] interacts with 1 human partners:{Q9BSI4}

4065 Pathogen[ P14075] interacts with 1 human partners:{Q9BSI4}

4066 Pathogen[ P0C206] interacts with 1 human partners:{Q9BSI4}

4067 Pathogen[ P03363] interacts with 1 human partners:{Q9BSI4}

4068 [Cluster 671]GO:0045579+P biological\_process [name] positive regulation of B cell differentiation [def] "Any process that activates or increases the frequency, rate or extent of B cell differentiation." [GOC

4069 Pathogen[ P0C214] interacts with 2 human partners:{Q92934;Q5JVF3}

4070 Pathogen[ P03346] interacts with 1 human partners:{O75626}

4071 Pathogen[ Q85601] interacts with 1 human partners:{O75626}

4072 Pathogen[ P14079] interacts with 3 human partners:{O75626;Q92934;Q5JVF3}

4073 Pathogen[ P03410] interacts with 3 human partners:{Q92934;Q5JVF3;O75626}

4074 Pathogen[ P0C206] interacts with 3 human partners:{O75626;Q5JVF3;Q92934}

4075 Pathogen[ P03363] interacts with 1 human partners:{O75626}

4076 [Cluster 672]GO:0038092+P

4077 Pathogen[ Q2Q067] interacts with 2 human partners:{P84022;Q15796}

4078 Pathogen[ P0C214] interacts with 2 human partners:{P84022;Q15796}

4079 Pathogen[ P03346] interacts with 2 human partners:{Q15796;P84022}

4080 Pathogen[ Q85601] interacts with 2 human partners:{P84022;Q15796}

4081 Pathogen[ P03383] interacts with 2 human partners:{P84022;Q15796}

4082 Pathogen[ P03410] interacts with 2 human partners:{P84022;Q15796}

4083 Pathogen[ P14075] interacts with 2 human partners:{Q15796;P84022}

4084 Pathogen[ P0C206] interacts with 2 human partners:{P84022;Q15796}

4085 Pathogen[ P03363] interacts with 2 human partners:{Q15796;P84022}

4086 [Cluster 673]GO:0009166+P biological\_process [name] nucleotide catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of nucleotides, any nucleoside that is esterified with (ortho)phosphate or an oligophosphate at any hydroxyl group on the glucose moiety\_ may be mono-, di- or triphosphate\_ this definition includes cyclic-nucleotides (nucleoside cyclic phosphates)." [GOC

4087 Pathogen[ P0C214] interacts with 2 human partners:{O95045;Q16831}

4088 Pathogen[ Q85601] interacts with 1 human partners:{O95045}

4089 Pathogen[ P14079] interacts with 2 human partners:{Q16831;O95045}

4090 Pathogen[ P03410] interacts with 2 human partners:{O95045;Q16831}

4091 Pathogen[ P14075] interacts with 1 human partners:{O95045}

4092 Pathogen[ P0C206] interacts with 2 human partners:{Q16831;O95045}

4093 [Cluster 674]GO:0030311+P biological\_process [name] poly-N-acetylactosamine biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of poly-N-acetylactosamine, a carbohydrate composed of N-acetylactosamine repeats (Gal-beta-1,4-GlcNAc-beta-1,3)n." [GOC

4094 Pathogen[ P14079] interacts with 1 human partners:{O43505}

4095 Pathogen[ P03410] interacts with 1 human partners:{O43505}

4096 Pathogen[ P14075] interacts with 1 human partners:{O43505}

4097 Pathogen[ P0C206] interacts with 1 human partners:{O43505}

4098 [Cluster 675]GO:0008210+P biological\_process [name] estrogen metabolic process [def] "The chemical reactions and pathways involving estrogens, C18 steroid hormones that can stimulate the development of female sexual characteristics. Also found in plants." [ISBN

4099 Pathogen[ P03346] interacts with 1 human partners:{Q9HB21}

4100 Pathogen[ Q85601] interacts with 1 human partners:{Q9HB21}

4101 Pathogen[ P14079] interacts with 1 human partners:{Q9HB21}

4102 Pathogen[ P03410] interacts with 1 human partners:{Q9HB21}

4103 Pathogen[ P0C206] interacts with 1 human partners:{Q9HB21}

4104 [Cluster 676]GO:0030001+P biological\_process [name] metal ion transport [def] "The directed movement of metal ions, any metal ion with an electric charge, into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore." [GOC

4105 Pathogen[ Q2Q067] interacts with 1 human partners:{O14618}

4106 Pathogen[ P0C214] interacts with 1 human partners:{O14618}

4107 Pathogen[ P03346] interacts with 1 human partners:{O14618}

4108 Pathogen[ Q85601] interacts with 1 human partners:{O14618}

4109 Pathogen[ P14079] interacts with 3 human partners:{O00244;O14618;Q9NVT9}

4110 Pathogen[ P03410] interacts with 2 human partners:{Q9NVT9;O14618}

4111 Pathogen[ POC206] interacts with 1 human partners:{O14618}

4112 Pathogen[ P03363] interacts with 1 human partners:{O14618}

4113 [Cluster 677]GO:0050806+P biological\_process [name] positive regulation of synaptic transmission [def] "Any process that activates or increases the frequency, rate or extent of synaptic transmission, the process of communication from a neuron to a target (neuron, muscle, or secretory cell) across a synapse." [GOC

4114 Pathogen[ Q2Q067] interacts with 1 human partners:{P78352}

4115 Pathogen[ POC214] interacts with 1 human partners:{P78352}

4116 Pathogen[ P03346] interacts with 1 human partners:{P78352}

4117 Pathogen[ Q85601] interacts with 1 human partners:{P78352}

4118 Pathogen[ P03383] interacts with 1 human partners:{P78352}

4119 Pathogen[ P03410] interacts with 1 human partners:{P78352}

4120 Pathogen[ P14075] interacts with 1 human partners:{P78352}

4121 Pathogen[ POC206] interacts with 1 human partners:{P78352}

4122 Pathogen[ P03363] interacts with 1 human partners:{P78352}

4123 [Cluster 678]GO:0005984+P biological\_process [name] disaccharide metabolic process [def] "The chemical reactions and pathways involving any disaccharide, sugars composed of two monosaccharide units." [GOC

4124 Pathogen[ P14079] interacts with 1 human partners:{P35475}

4125 [Cluster 679]GO:0006654+P biological\_process [name] phosphatidic acid biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of phosphatidic acid, any derivative of glycerol phosphate in which both the remaining hydroxyl groups of the glycerol moiety are esterified with fatty acids." [ISBN

4126 Pathogen[ POC214] interacts with 2 human partners:{Q8N335;P21695}

4127 Pathogen[ P03346] interacts with 1 human partners:{Q9Y371}

4128 Pathogen[ P14079] interacts with 2 human partners:{Q9Y371;P21695}

4129 Pathogen[ P03410] interacts with 2 human partners:{Q9Y371;P21695}

4130 [Cluster 680]GO:0035990+P biological\_process [name] tendon cell differentiation [def] "The process in which a relatively unspecialized cell acquires the specialized features of a tendon cell. Tendon cell are elongated fibrocytes in which the cytoplasm is stretched between the collagen fibres of the tendon. Tendon cells have a central cell nucleus with a prominent nucleolus, a well-developed rough endoplasmic reticulum, and are responsible for synthesis and turnover of tendon fibres and ground substance." [CL

4131 Pathogen[ P03346] interacts with 1 human partners:{Q8IYA7}

4132 Pathogen[ P03363] interacts with 1 human partners:{Q8IYA7}

4133 [Cluster 681]GO:003233+P biological\_process [name] regulation of protein sumoylation [def] "Any process that modulates the frequency, rate or extent of the addition of SUMO groups to a protein." [GOC

4134 Pathogen[ Q2Q067] interacts with 1 human partners:{P18146}

4135 Pathogen[ POC214] interacts with 1 human partners:{P18146}

4136 Pathogen[ P03346] interacts with 1 human partners:{P18146}

4137 Pathogen[ Q85601] interacts with 1 human partners:{P18146}

4138 Pathogen[ P03383] interacts with 1 human partners:{P18146}

4139 Pathogen[ P03410] interacts with 1 human partners:{P18146}

4140 Pathogen[ P14075] interacts with 1 human partners:{P18146}

4141 Pathogen[ POC206] interacts with 1 human partners:{P18146}

4142 Pathogen[ P03363] interacts with 1 human partners:{P18146}

4143 [Cluster 682]GO:0031062+P biological\_process [name] positive regulation of histone methylation [def] "Any process that activates or increases the frequency, rate or extent of the covalent addition of methyl groups to histones." [GOC

4144 Pathogen[ Q2Q067] interacts with 1 human partners:{O00255}

4145 Pathogen[ POC214] interacts with 1 human partners:{O00255}

4146 Pathogen[ P03346] interacts with 1 human partners:{O00255}

4147 Pathogen[ Q85601] interacts with 1 human partners:{O00255}

4148 Pathogen[ P14079] interacts with 1 human partners:{O00255}

4149 Pathogen[ P03383] interacts with 1 human partners:{O00255}

4150 Pathogen[ P03410] interacts with 1 human partners:{O00255}

4151 Pathogen[ P14075] interacts with 1 human partners:{O00255}

4152 Pathogen[ POC206] interacts with 1 human partners:{O00255}

4153 [Cluster 683]GO:0042371+P biological\_process [name] vitamin K biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of any of the forms of vitamin K, quinone-derived vitamins which are involved in the synthesis of blood-clotting factors in mammals." [GOC

4154 Pathogen[ P14079] interacts with 1 human partners:{Q9Y5Z9}

4155 Pathogen[ P03410] interacts with 1 human partners:{Q9Y5Z9}

4156 Pathogen[ POC206] interacts with 1 human partners:{Q9Y5Z9}

4157 [Cluster 684]GO:0043153+P biological\_process [name] entrainment of circadian clock by photoperiod [def] "The synchronization of a circadian rhythm to photoperiod, the intermittent cycle of light (day) and dark (night)." [GOC

4158 Pathogen[ Q2Q067] interacts with 1 human partners:{O14503}

4159 Pathogen[ POC214] interacts with 1 human partners:{O14503}

4160 Pathogen[ P03346] interacts with 3 human partners:{P10588;O14503;Q9BWF3}

4161 Pathogen[ Q85601] interacts with 1 human partners:{O14503}

4162 Pathogen[ P14079] interacts with 2 human partners:{P10588;O14503}

4163 Pathogen[ P03383] interacts with 1 human partners:{O14503}

4164 Pathogen[ P14075] interacts with 1 human partners:{O14503}

4165 Pathogen[ POC206] interacts with 1 human partners:{P10588}

4166 Pathogen[ P03363] interacts with 3 human partners:{Q9BWF3;P10588;O14503}

4167 [Cluster 685]GO:1900212+P

4168 Pathogen[ P03346] interacts with 1 human partners:{Q06710}

4169 [Cluster 686]GO:0002432+P biological\_process [name] granuloma formation [def] "The formation of nodular inflammatory lesions, usually small or granular, firm, persistent, well-structured, and containing compactly grouped T lymphocytes and modified phagocytes such as epithelioid cells, giant cells, and other macrophages. Granuloma formation represents a chronic inflammatory response initiated by various infectious and noninfectious agents. The center of a granuloma consists of fused macrophages, which can become necrotic." [GO\_REF

4170 Pathogen[ P03346] interacts with 1 human partners:{Q70J99}

4171 Pathogen[ P03410] interacts with 1 human partners:{Q70J99}

4172 [Cluster 687]GO:0002456+P biological\_process [name] T cell mediated immunity [def] "Any process involved in the carrying out of an immune response by a T cell." [GO\_REF

4173 Pathogen[ POC214] interacts with 1 human partners:{Q99698}

4174 Pathogen[ P03346] interacts with 1 human partners:{Q99698}

4175 Pathogen[ Q85601] interacts with 1 human partners:{Q99698}

4176 Pathogen[ P14079] interacts with 1 human partners:{Q99698}

4177 Pathogen[ P03410] interacts with 1 human partners:{Q99698}

4178 Pathogen[ POC206] interacts with 1 human partners:{Q99698}

4179 Pathogen[ P03363] interacts with 1 human partners:{Q99698}

4180 [Cluster 688]GO:0061017+P biological\_process [name] hepatoblast differentiation [def] "The process in which a relatively unspecialized cell acquires specialized features of a hepatoblast. A hepatoblast is a cell that retains the ability to divide and proliferate throughout life to provide progenitor cells that can differentiate into hepatocytes and cholangiocytes." [GOC

4181 Pathogen[ Q2Q067] interacts with 1 human partners:{P35680}

4182 Pathogen[ P03346] interacts with 1 human partners:{P35680}

4183 Pathogen[ Q85601] interacts with 1 human partners:{P35680}

4184 Pathogen[ P14079] interacts with 1 human partners:{P35680}

4185 Pathogen[ P03410] interacts with 1 human partners:{P35680}

4186 Pathogen[ POC206] interacts with 1 human partners:{P35680}

4187 [Cluster 689]GO:0003161+P biological\_process [name] cardiac conduction system development [def] "The process whose specific outcome is the progression of the cardiac conduction system over time, from its formation to the mature structure. The cardiac conduction system consists of specialized cardiomyocytes that regulate the frequency of heart beat." [GOC

4188 Pathogen[ Q2Q067] interacts with 1 human partners:{P60953}

4189 Pathogen[ POC214] interacts with 1 human partners:{P60953}

4190 Pathogen[ P03346] interacts with 1 human partners:{P60953}

4191 Pathogen[ Q85601] interacts with 1 human partners:{P60953}

4192 Pathogen[ P03383] interacts with 1 human partners:{P60953}

4193 Pathogen[ P03410] interacts with 1 human partners:{P60953}

4194 Pathogen[ P14075] interacts with 1 human partners:{P60953}

4195 Pathogen[ POC206] interacts with 1 human partners:{P60953}

4196 Pathogen[ P03363] interacts with 1 human partners:{P60953}

4197 [Cluster 690]GO:0060011+P biological\_process [name] Sertoli cell proliferation [def] "The multiplication or reproduction of Sertoli cells, resulting in the expansion of the Sertoli cell population. A Sertoli cell is a supporting cell projecting inward from the basement membrane of seminiferous tubules." [GOC

4198 Pathogen[ Q2Q067] interacts with 1 human partners:{Q92843}

4199 Pathogen[ POC214] interacts with 1 human partners:{Q92843}

4200 Pathogen[ P03346] interacts with 1 human partners:{Q92843}

4201 Pathogen[ Q85601] interacts with 1 human partners:{Q92843}

4202 Pathogen[ P14079] interacts with 2 human partners:{P01225;Q92843}

4203 Pathogen[ P03410] interacts with 1 human partners:{Q92843}

4204 Pathogen[ POC206] interacts with 1 human partners:{Q92843}

4205 Pathogen[ P03363] interacts with 1 human partners:{Q92843}

4206 [Cluster 691]GO:0009589+P biological\_process [name] detection of UV [def] "The series of events in which an ultraviolet radiation (UV light) stimulus is received by a cell and converted into a molecular signal. Ultraviolet radiation is electromagnetic radiation with a wavelength in the range of 10 to 380 nanometers." [GOC

4207 Pathogen[ POC214] interacts with 1 human partners:{P22830}

4208 Pathogen[ P14079] interacts with 1 human partners:{P22830}

4209 Pathogen[ P03410] interacts with 1 human partners:{P22830}

4210 Pathogen[ POC206] interacts with 1 human partners:{P22830}

4211 [Cluster 692]GO:0072207+P biological\_process [name] metanephric epithelium development [def] "The process whose specific outcome is the progression of an epithelium in the metanephros over time, from its formation to the mature structure. An epithelium is a tissue that covers the internal or external surfaces of an anatomical structure." [GOC

4212 Pathogen[ P03346] interacts with 1 human partners:{Q06710}

4213 [Cluster 693]GO:0071453+P biological\_process [name] cellular response to oxygen levels [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a stimulus reflecting the presence, absence, or concentration of oxygen." [GOC

4214 Pathogen[ Q2Q067] interacts with 1 human partners:{P15172}

4215 Pathogen[ P0C214] interacts with 1 human partners:{P15172}

4216 Pathogen[ P03346] interacts with 1 human partners:{P15172}

4217 Pathogen[ Q85601] interacts with 1 human partners:{P15172}

4218 Pathogen[ P03383] interacts with 1 human partners:{P15172}

4219 Pathogen[ P14075] interacts with 1 human partners:{P15172}

4220 Pathogen[ P0C206] interacts with 1 human partners:{P15172}

4221 Pathogen[ P03363] interacts with 1 human partners:{P15172}

4222 [Cluster 694]GO:0018016+P biological\_process [name] N-terminal peptidyl-proline dimethylation [def] "The methylation of the N-terminal proline of proteins to form the derivative N,N-dimethyl-L-proline." [RESID

4223 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BV86}

4224 Pathogen[ P0C214] interacts with 1 human partners:{Q9BV86}

4225 Pathogen[ P03346] interacts with 1 human partners:{Q9BV86}

4226 Pathogen[ Q85601] interacts with 1 human partners:{Q9BV86}

4227 Pathogen[ P14079] interacts with 1 human partners:{Q9BV86}

4228 Pathogen[ P03410] interacts with 1 human partners:{Q9BV86}

4229 Pathogen[ P0C206] interacts with 1 human partners:{Q9BV86}

4230 Pathogen[ P03363] interacts with 1 human partners:{Q9BV86}

4231 [Cluster 695]GO:0042745+P biological\_process [name] circadian sleep/wake cycle [def] "The cycle from wakefulness through an orderly succession of sleep states and stages that occurs on an approximately 24 hour rhythm." [GOC

4232 Pathogen[ Q2Q067] interacts with 1 human partners:{Q99743}

4233 Pathogen[ P0C214] interacts with 1 human partners:{Q99743}

4234 Pathogen[ P03346] interacts with 1 human partners:{Q99743}

4235 Pathogen[ Q85601] interacts with 1 human partners:{Q99743}

4236 Pathogen[ P14079] interacts with 1 human partners:{Q99743}

4237 Pathogen[ P03410] interacts with 1 human partners:{Q99743}

4238 Pathogen[ P0C206] interacts with 1 human partners:{Q99743}

4239 Pathogen[ P03363] interacts with 1 human partners:{Q99743}

4240 [Cluster 696]GO:0007321+P biological\_process [name] sperm displacement [def] "The physical displacement of sperm stored from previous mating encounters." [PMID

4241 Pathogen[ P03410] interacts with 1 human partners:{Q14507}

4242 [Cluster 697]GO:0044356+P biological\_process [name] clearance of foreign intracellular DNA by conversion of DNA cytidine to uridine [def] "A defense process that protects an organism from invading foreign DNA. The process begins by the deamination of foreign double-stranded DNA cytidines to uridines. These atypical DNA nucleosides are then converted by a uracil DNA glycosylase to abasic lesions, and the process ends with the degradation of the foreign DNA." [GO

4243 Pathogen[ P14079] interacts with 1 human partners:{P31941}

4244 Pathogen[ P03410] interacts with 1 human partners:{P31941}

4245 Pathogen[ P0C206] interacts with 1 human partners:{P31941}

4246 [Cluster 698]GO:0007494+P biological\_process [name] midgut development [def] "The process whose specific outcome is the progression of the midgut over time, from its formation to the mature structure. The midgut is the middle part of the alimentary canal from the stomach, or entrance of the bile duct, to, or including, the large intestine." [GOC

4247 Pathogen[ P0C214] interacts with 1 human partners:{P00480}

4248 Pathogen[ Q85601] interacts with 1 human partners:{P00480}

4249 Pathogen[ P14079] interacts with 1 human partners:{P00480}

4250 Pathogen[ P03410] interacts with 1 human partners:{P00480}

4251 Pathogen[ P0C206] interacts with 1 human partners:{P00480}

4252 [Cluster 699]GO:0003323+P biological\_process [name] type B pancreatic cell development [def] "The process whose specific outcome is the progression of a type B pancreatic cell over time, from its formation to the mature structure. A type B pancreatic cell is a cell located towards center of the islets of Langerhans that secretes insulin." [CL

4253 Pathogen[ Q2Q067] interacts with 1 human partners:{Q00534}

4254 Pathogen[ P0C214] interacts with 1 human partners:{Q00534}

4255 Pathogen[ P03346] interacts with 4 human partners:{P78426;Q95096;Q00534;Q01101}

4256 Pathogen[ Q85601] interacts with 1 human partners:{Q00534}

4257 Pathogen[ P03383] interacts with 1 human partners:{Q00534}

4258 Pathogen[ P03410] interacts with 1 human partners:{Q00534}

4259 Pathogen[ P14075] interacts with 1 human partners:{Q00534}

4260 Pathogen[ P0C206] interacts with 1 human partners:{Q00534}

4261 Pathogen[ P03363] interacts with 1 human partners:{Q00534}

4262 [Cluster 700]GO:0047496+P biological\_process [name] vesicle transport along microtubule [def] "The directed movement of a vesicle along a microtubule, mediated by motor proteins. This process begins with the attachment of a vesicle to a microtubule, and ends when the vesicle reaches its final destination." [GOC

4263 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9NXR1;O14576}

4264 Pathogen[ P0C214] interacts with 2 human partners:{O14576;Q9NXR1}

4265 Pathogen[ P03346] interacts with 3 human partners:{014576;Q9NXR1;P54257}

4266 Pathogen[ Q85601] interacts with 3 human partners:{014576;Q9NXR1;Q9GZM8}

4267 Pathogen[ P14079] interacts with 4 human partners:{P54257;Q9GZM8;014576;Q9NXR1}

4268 Pathogen[ P03410] interacts with 5 human partners:{Q9NXR1;Q9GZM8;014576;P54257;P33176}

4269 Pathogen[ P0C206] interacts with 3 human partners:{014576;Q9GZM8;Q9NXR1}

4270 Pathogen[ P03363] interacts with 4 human partners:{P33176;P54257;Q9NXR1;014576}

4271 [Cluster 701]GO:0015936+P biological\_process [name] coenzyme A metabolic process [def] "The chemical reactions and pathways involving coenzyme A, 3'-phosphoadenosine-(5')diphospho(4')pantatheine, an acyl carrier in many acylation and acyl-transfer reactions in which the intermediate is a thiol ester." [ISBN

4272 Pathogen[ P0C214] interacts with 1 human partners:{P53396}

4273 [Cluster 702]GO:0001945+P biological\_process [name] lymph vessel development [def] "The process whose specific outcome is the progression of a lymph vessel over time, from its formation to the mature structure." [GOC

4274 Pathogen[ P03346] interacts with 1 human partners:{P35713}

4275 Pathogen[ P03410] interacts with 1 human partners:{Q9BSN7}

4276 [Cluster 703]GO:0071805+P biological\_process [name] potassium ion transmembrane transport [def] "A process in which a potassium ion is transported from one side of a membrane to the other." [GOC

4277 Pathogen[ P14079] interacts with 1 human partners:{Q9H6F2}

4278 Pathogen[ P03410] interacts with 2 human partners:{P59646;Q9H6F2}

4279 [Cluster 704]GO:0001826+P biological\_process [name] inner cell mass cell differentiation [def] "The process in which a relatively unspecialized cell acquires specialized features of an inner cell mass cell." [GOC

4280 Pathogen[ Q2Q067] interacts with 1 human partners:{P35680}

4281 Pathogen[ P03346] interacts with 2 human partners:{Q9NVX2;P35680}

4282 Pathogen[ Q85601] interacts with 2 human partners:{Q9NVX2;P35680}

4283 Pathogen[ P14079] interacts with 2 human partners:{P35680;Q9NVX2}

4284 Pathogen[ P03410] interacts with 2 human partners:{P35680;Q9NVX2}

4285 Pathogen[ P0C206] interacts with 2 human partners:{Q9NVX2;P35680}

4286 Pathogen[ P03363] interacts with 1 human partners:{Q9NVX2}

4287 [Cluster 705]GO:2000147+P biological\_process [name] positive regulation of cell motility [def] "Any process that activates or increases the frequency, rate or extent of cell motility." [GOC

4288 Pathogen[ P03346] interacts with 1 human partners:{Q9NRX4}

4289 Pathogen[ P14079] interacts with 2 human partners:{P31751;Q9NRX4}

4290 Pathogen[ P03410] interacts with 1 human partners:{Q9NRX4}

4291 Pathogen[ P0C206] interacts with 1 human partners:{Q9NRX4}

4292 [Cluster 706]GO:0006600+P biological\_process [name] creatine metabolic process [def] "The chemical reactions and pathways involving creatine (N-(aminoiminomethyl)-N-methylglycine), a compound synthesized from the amino acids arginine, glycine, and methionine that occurs in muscle." [GOC

4293 Pathogen[ P0C214] interacts with 2 human partners:{P50440;P12277}

4294 Pathogen[ P14079] interacts with 2 human partners:{Q14353;P50440}

4295 Pathogen[ P03410] interacts with 2 human partners:{Q14353;P50440}

4296 Pathogen[ P14075] interacts with 1 human partners:{P50440}

4297 Pathogen[ P0C206] interacts with 1 human partners:{P50440}

4298 [Cluster 707]GO:0072584+P biological\_process [name] caveolin-mediated endocytosis [def] "An endocytosis process that begins when material is taken up into plasma membrane caveolae, which then pinch off to form endocytic caveolar carriers." [GOC

4299 Pathogen[ P03410] interacts with 1 human partners:{Q15049}

4300 [Cluster 708]GO:0006740+P biological\_process [name] NADPH regeneration [def] "A metabolic process that generates a pool of NADPH by the reduction of NADP+." [GOC

4301 Pathogen[ P0C214] interacts with 2 human partners:{075874;P11413}

4302 [Cluster 709]GO:0033182+P biological\_process [name] regulation of histone ubiquitination [def] "Any process that modulates the frequency, rate or extent of the addition of a ubiquitin group to a histone protein." [GOC

4303 Pathogen[ Q2Q067] interacts with 1 human partners:{P61088}

4304 Pathogen[ P0C214] interacts with 1 human partners:{P61088}

4305 Pathogen[ P03346] interacts with 1 human partners:{P61088}

4306 Pathogen[ Q85601] interacts with 1 human partners:{P61088}

4307 Pathogen[ P03383] interacts with 1 human partners:{P61088}

4308 Pathogen[ P03410] interacts with 1 human partners:{P61088}

4309 Pathogen[ P14075] interacts with 1 human partners:{P61088}

4310 Pathogen[ P0C206] interacts with 1 human partners:{P61088}

4311 Pathogen[ P03363] interacts with 1 human partners:{P61088}

4312 [Cluster 710]GO:0002821+P biological\_process [name] positive regulation of adaptive immune response [def] "Any process that activates or increases the frequency, rate, or extent of an adaptive immune response." [GOC

4313 Pathogen[ P03346] interacts with 1 human partners:{075995}

4314 [Cluster 711]GO:0016598+P biological\_process [name] protein arginylation [def] "The conjugation of arginine to the N-terminal aspartate or glutamate of a protein\_ required for the degradation of the protein via the ubiquitin pathway." [PMID

4315 Pathogen[ P0C214] interacts with 1 human partners:{095260}

4316 Pathogen[ P03346] interacts with 1 human partners:{095260}



4317 Pathogen[ Q85601] interacts with 1 human partners:{095260}

4318 Pathogen[ P14079] interacts with 1 human partners:{095260}

4319 Pathogen[ P03410] interacts with 1 human partners:{095260}

4320 Pathogen[ P0C206] interacts with 1 human partners:{095260}

4321 Pathogen[ P03363] interacts with 1 human partners:{095260}

4322 [Cluster 712]GO:0019442+P biological\_process [name] tryptophan catabolic process to acetyl-CoA [def] "The chemical reactions and pathways resulting in the breakdown of tryptophan into other compounds, including acetyl-CoA." [GOC

4323 Pathogen[ Q2Q067] interacts with 1 human partners:{Q16719}

4324 Pathogen[ P0C214] interacts with 1 human partners:{Q16719}

4325 Pathogen[ P03346] interacts with 1 human partners:{Q16719}

4326 Pathogen[ Q85601] interacts with 1 human partners:{Q16719}

4327 Pathogen[ P14079] interacts with 2 human partners:{P48775;Q16719}

4328 Pathogen[ P03383] interacts with 1 human partners:{Q16719}

4329 Pathogen[ P03410] interacts with 2 human partners:{Q16719;P48775}

4330 Pathogen[ P14075] interacts with 1 human partners:{Q16719}

4331 Pathogen[ P0C206] interacts with 1 human partners:{Q16719}

4332 [Cluster 713]GO:0035995+P biological\_process [name] detection of muscle stretch [def] "The series of events by which a muscle stretch stimulus is received by a cell and converted into a molecular signal." [PMID

4333 Pathogen[ P14079] interacts with 1 human partners:{O15273}

4334 Pathogen[ P03410] interacts with 1 human partners:{O15273}

4335 Pathogen[ P0C206] interacts with 1 human partners:{P50461}

4336 [Cluster 714]GO:0061386+P biological\_process [name] closure of optic fissure [def] "The closure of the temporary ventral gap in the optic cup that contributes to its shaping." [GOC

4337 Pathogen[ P14079] interacts with 1 human partners:{Q8IZ21}

4338 Pathogen[ P03410] interacts with 1 human partners:{Q8IZ21}

4339 [Cluster 715]GO:0006024+P biological\_process [name] glycosaminoglycan biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of glycosaminoglycans, any of a group of polysaccharides that contain amino sugars." [ISBN

4340 Pathogen[ P14079] interacts with 1 human partners:{O94923}

4341 [Cluster 716]GO:1900215+P

4342 Pathogen[ P03346] interacts with 1 human partners:{Q06710}

4343 [Cluster 717]GO:0001834+P biological\_process [name] trophectodermal cell proliferation [def] "The proliferation of cells in the trophectoderm." [GOC

4344 Pathogen[ P03346] interacts with 1 human partners:{O95718}

4345 Pathogen[ P14079] interacts with 1 human partners:{O95718}

4346 Pathogen[ P0C206] interacts with 1 human partners:{O95718}

4347 [Cluster 718]GO:0050974+P biological\_process [name] detection of mechanical stimulus involved in sensory perception [def] "The series of events in which a sensory mechanical stimulus is received by a cell and converted into a molecular signal." [GOC

4348 Pathogen[ P0C214] interacts with 1 human partners:{P07093}

4349 Pathogen[ Q85601] interacts with 1 human partners:{P07093}

4350 [Cluster 719]GO:0055012+P biological\_process [name] ventricular cardiac muscle cell differentiation [def] "The process in which a relatively unspecialized cell acquires specialized features of a cardiac muscle cell. Cardiac muscle cells are striated muscle cells that are responsible for heart contraction. The ventricle is the part of the heart that pumps blood out of the organ." [GOC

4351 Pathogen[ Q2Q067] interacts with 1 human partners:{P28702}

4352 Pathogen[ P03346] interacts with 1 human partners:{P28702}

4353 Pathogen[ Q85601] interacts with 1 human partners:{P28702}

4354 Pathogen[ P14079] interacts with 2 human partners:{Q06413;P28702}

4355 Pathogen[ P03383] interacts with 1 human partners:{P28702}

4356 Pathogen[ P03410] interacts with 1 human partners:{P28702}

4357 Pathogen[ P14075] interacts with 1 human partners:{P28702}

4358 Pathogen[ P0C206] interacts with 1 human partners:{P28702}

4359 Pathogen[ P03363] interacts with 1 human partners:{P28702}

4360 [Cluster 720]GO:0010571+P biological\_process [name] positive regulation of DNA replication involved in S phase [def] "Any process that activates or increases the frequency, rate or extent of DNA replication that contributes to the progression through S phase of the cell cycle." [GOC

4361 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9ULG1}

4362 Pathogen[ P0C214] interacts with 1 human partners:{Q9ULG1}

4363 Pathogen[ P03346] interacts with 1 human partners:{Q9ULG1}

4364 Pathogen[ Q85601] interacts with 1 human partners:{Q9ULG1}

4365 Pathogen[ P14079] interacts with 1 human partners:{Q9ULG1}

4366 Pathogen[ P03410] interacts with 1 human partners:{Q9ULG1}

4367 Pathogen[ P0C206] interacts with 1 human partners:{Q9ULG1}

4368 Pathogen[ P03363] interacts with 1 human partners:{Q9ULG1}

4369 [Cluster 721]GO:0071557+P biological\_process [name] histone H3-K27 demethylation [def] "The modification of histone H3 by the removal of a methyl group from lysine at position 27 of the histone." [GOC

4370 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UPP1}

4371 Pathogen[ P0C214] interacts with 1 human partners:{Q9UPP1}

4372 Pathogen[ P03346] interacts with 1 human partners:{Q9UPP1}

4373 Pathogen[ Q85601] interacts with 1 human partners:{Q9UPP1}

4374 Pathogen[ P14079] interacts with 1 human partners:{Q9UPP1}

4375 Pathogen[ P03383] interacts with 1 human partners:{Q9UPP1}

4376 Pathogen[ P03410] interacts with 1 human partners:{Q9UPP1}

4377 Pathogen[ P14075] interacts with 1 human partners:{Q9UPP1}

4378 Pathogen[ P0C206] interacts with 1 human partners:{Q9UPP1}

4379 [Cluster 722]GO:0097120+P biological\_process [name] receptor localization to synapse  
[def] "Any process in which a receptor is transported to, and/or maintained at the synapse, the junction between a nerve fiber of one neuron and another neuron or muscle fiber or glial cell." [GOC

4380 Pathogen[ Q2Q067] interacts with 1 human partners:{P78352}

4381 Pathogen[ P0C214] interacts with 1 human partners:{P78352}

4382 Pathogen[ P03346] interacts with 1 human partners:{P78352}

4383 Pathogen[ Q85601] interacts with 1 human partners:{P78352}

4384 Pathogen[ P03383] interacts with 1 human partners:{P78352}

4385 Pathogen[ P03410] interacts with 1 human partners:{P78352}

4386 Pathogen[ P14075] interacts with 1 human partners:{P78352}

4387 Pathogen[ P0C206] interacts with 1 human partners:{P78352}

4388 Pathogen[ P03363] interacts with 1 human partners:{P78352}

4389 [Cluster 723]GO:0072162+P biological\_process [name] metanephric mesenchymal cell differentiation [def] "The process in which relatively unspecialized cells acquire specialized structural and/or functional features that characterize the mesenchymal cells of the metanephros as it progresses from its formation to the mature state." [GOC

4390 Pathogen[ Q2Q067] interacts with 1 human partners:{P42224}

4391 Pathogen[ P0C214] interacts with 1 human partners:{P42224}

4392 Pathogen[ P03346] interacts with 2 human partners:{O43680;P42224}

4393 Pathogen[ Q85601] interacts with 1 human partners:{P42224}

4394 Pathogen[ P14079] interacts with 1 human partners:{P42224}

4395 Pathogen[ P0C206] interacts with 1 human partners:{P42224}

4396 [Cluster 724]GO:0006517+P biological\_process [name] protein deglycosylation [def] "The removal of sugar residues from a glycosylated protein." [GOC

4397 Pathogen[ P14079] interacts with 1 human partners:{P20933}

4398 Pathogen[ P03410] interacts with 1 human partners:{P20933}

4399 [Cluster 725]GO:0048513+P biological\_process [name] organ development [def] "Development of a tissue or tissues that work together to perform a specific function or functions. Development pertains to the process whose specific outcome is the progression of a structure over time, from its formation to the mature structure. Organs are commonly observed as visibly distinct structures, but may also exist as loosely associated clusters of cells that work together to perform a specific function or functions." [GOC

4400 Pathogen[ P03346] interacts with 6 human partners:{Q9Y283;Q14774;Q12778;P98177;P78367;Q9HBU1}

4401 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y283}

4402 Pathogen[ P14079] interacts with 1 human partners:{Q9Y283}

4403 Pathogen[ P03410] interacts with 1 human partners:{Q9Y283}

4404 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y283}

4405 Pathogen[ P03363] interacts with 3 human partners:{Q9Y283;P78367;Q9HBU1}

4406 [Cluster 726]GO:0033609+P biological\_process [name] oxalate metabolic process [def] "The chemical reactions and pathways involving oxalate, the organic acid ethanedioate." [CHEBI

4407 Pathogen[ P0C214] interacts with 1 human partners:{Q86XE5}

4408 Pathogen[ P14079] interacts with 1 human partners:{Q86XE5}

4409 Pathogen[ P03410] interacts with 1 human partners:{Q86XE5}

4410 Pathogen[ P14075] interacts with 1 human partners:{Q86XE5}

4411 Pathogen[ P0C206] interacts with 1 human partners:{Q86XE5}

4412 [Cluster 727]GO:0033032+P biological\_process [name] regulation of myeloid cell apoptosis [def] "Any process that modulates the frequency, rate, or extent of myeloid cell apoptosis." [GOC

4413 Pathogen[ Q2Q067] interacts with 1 human partners:{P10827}

4414 Pathogen[ P03346] interacts with 1 human partners:{P10827}

4415 Pathogen[ Q85601] interacts with 1 human partners:{P10827}

4416 Pathogen[ P14079] interacts with 1 human partners:{P10827}

4417 Pathogen[ P0C206] interacts with 1 human partners:{P10827}

4418 [Cluster 728]GO:0050850+P biological\_process [name] positive regulation of calcium-mediated signaling [def] "Any process that activates or increases the frequency, rate or extent of calcium-mediated signaling." [GOC

4419 Pathogen[ P03346] interacts with 1 human partners:{Q96A65}

4420 Pathogen[ Q85601] interacts with 1 human partners:{Q96A65}

4421 Pathogen[ P14079] interacts with 2 human partners:{Q96A65;Q6PIZ9}

4422 Pathogen[ P03410] interacts with 2 human partners:{Q6PIZ9;Q96A65}

4423 Pathogen[ P0C206] interacts with 1 human partners:{Q96A65}

4424 Pathogen[ P03363] interacts with 1 human partners:{Q96A65}

4425 [Cluster 729]GO:000097+P biological\_process [name] sulfur amino acid biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of amino acids containing sulfur, comprising cysteine, methionine and selenocysteine." [GOC

4426 Pathogen[ P14079] interacts with 1 human partners:{Q16878}

4427 [Cluster 730]GO:0009642+P biological\_process [name] response to light intensity  
[def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a light intensity stimulus." [GOC  
4428 Pathogen[ P14079] interacts with 1 human partners:{P03897}  
4429 Pathogen[ P03410] interacts with 1 human partners:{P03897}  
4430 [Cluster 731]GO:0050953+P biological\_process [name] sensory perception of light stimulus [def] "The series of events required for an organism to receive a sensory light stimulus, convert it to a molecular signal, and recognize and characterize the signal. This is a neurological process." [GOC  
4431 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9Y6N9;Q495M9}  
4432 Pathogen[ P0C214] interacts with 2 human partners:{Q495M9;Q9Y6N9}  
4433 Pathogen[ P03346] interacts with 2 human partners:{Q9Y6N9;Q495M9}  
4434 Pathogen[ Q85601] interacts with 2 human partners:{Q9Y6N9;Q495M9}  
4435 Pathogen[ P14079] interacts with 2 human partners:{Q9Y6N9;Q495M9}  
4436 Pathogen[ P03410] interacts with 2 human partners:{Q495M9;Q9Y6N9}  
4437 Pathogen[ P0C206] interacts with 2 human partners:{Q9Y6N9;Q495M9}  
4438 Pathogen[ P03363] interacts with 2 human partners:{Q9Y6N9;Q495M9}  
4439 [Cluster 732]GO:0006047+P biological\_process [name] UDP-N-acetylglucosamine metabolic process [def] "The chemical reactions and pathways involving UDP-N-acetylglucosamine, a substance composed of N-acetylglucosamine, a common structural unit of oligosaccharides, in glycosidic linkage with uridine diphosphate." [GOC  
4440 Pathogen[ P03410] interacts with 1 human partners:{Q8NHY0}  
4441 [Cluster 733]GO:0036010+P biological\_process [name] protein localization in endosome [def] "A process in which a protein is transported to, or maintained in, a location within an endosome." [GOC  
4442 Pathogen[ P14079] interacts with 1 human partners:{Q9NV96}  
4443 Pathogen[ P03410] interacts with 1 human partners:{Q9NV96}  
4444 [Cluster 734]GO:0051795+P biological\_process [name] positive regulation of catagen [def] "Any process that activates or increases the frequency, rate or extent of catagen, the regression phase of the hair cycle." [GOC  
4445 Pathogen[ Q2Q067] interacts with 1 human partners:{P35548}  
4446 Pathogen[ P0C214] interacts with 1 human partners:{P35548}  
4447 Pathogen[ P03346] interacts with 1 human partners:{P35548}  
4448 Pathogen[ Q85601] interacts with 1 human partners:{P35548}  
4449 Pathogen[ P03383] interacts with 1 human partners:{P35548}  
4450 Pathogen[ P03410] interacts with 1 human partners:{P35548}  
4451 Pathogen[ P14075] interacts with 1 human partners:{P35548}  
4452 Pathogen[ P0C206] interacts with 1 human partners:{P35548}  
4453 Pathogen[ P03363] interacts with 1 human partners:{P35548}  
4454 [Cluster 735]GO:0036351+P  
4455 Pathogen[ P0C214] interacts with 1 human partners:{Q8IYW5}  
4456 Pathogen[ P03346] interacts with 1 human partners:{Q8IYW5}  
4457 Pathogen[ Q85601] interacts with 1 human partners:{Q8IYW5}  
4458 Pathogen[ P0C206] interacts with 1 human partners:{Q8IYW5}  
4459 Pathogen[ P03363] interacts with 1 human partners:{Q8IYW5}  
4460 [Cluster 736]GO:0030195+P biological\_process [name] negative regulation of blood coagulation [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of blood coagulation." [GOC  
4461 Pathogen[ P0C214] interacts with 2 human partners:{P05121;P07093}  
4462 Pathogen[ Q85601] interacts with 2 human partners:{P05121;P07093}  
4463 Pathogen[ P03410] interacts with 1 human partners:{P05121}  
4464 Pathogen[ P0C206] interacts with 1 human partners:{P05121}  
4465 [Cluster 737]GO:0042226+P biological\_process [name] interleukin-6 biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of interleukin-6." [GOC  
4466 Pathogen[ Q2Q067] interacts with 1 human partners:{O95999}  
4467 Pathogen[ P0C214] interacts with 1 human partners:{O95999}  
4468 Pathogen[ P03346] interacts with 1 human partners:{O95999}  
4469 Pathogen[ Q85601] interacts with 1 human partners:{O95999}  
4470 Pathogen[ P14079] interacts with 1 human partners:{O95999}  
4471 Pathogen[ P03383] interacts with 1 human partners:{O95999}  
4472 Pathogen[ P03410] interacts with 1 human partners:{O95999}  
4473 Pathogen[ P14075] interacts with 1 human partners:{O95999}  
4474 Pathogen[ P0C206] interacts with 1 human partners:{O95999}  
4475 [Cluster 738]GO:0070683+P biological\_process [name] mitotic cell cycle G2/M transition decatenation checkpoint [def] "A mitotic cell cycle checkpoint that blocks cell cycle progression from G2 to M phase until sister chromatids are sufficiently separated, with concatenated molecules topologically resolved." [GOC  
4476 Pathogen[ Q2Q067] interacts with 1 human partners:{P11388}  
4477 Pathogen[ P0C214] interacts with 1 human partners:{P11388}  
4478 Pathogen[ P03346] interacts with 1 human partners:{P11388}  
4479 Pathogen[ Q85601] interacts with 1 human partners:{P11388}  
4480 Pathogen[ P14079] interacts with 1 human partners:{P11388}  
4481 Pathogen[ P03410] interacts with 1 human partners:{P11388}  
4482 Pathogen[ P0C206] interacts with 1 human partners:{P11388}

4483 [Cluster 739]GO:2000177+P biological\_process [name] regulation of neural precursor cell proliferation [def] "Any process that modulates the frequency, rate or extent of neural precursor cell proliferation." [GOC

4484 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NSC2}

4485 Pathogen[ P0C214] interacts with 1 human partners:{Q9NSC2}

4486 Pathogen[ P03346] interacts with 1 human partners:{Q9NSC2}

4487 Pathogen[ Q85601] interacts with 1 human partners:{Q9NSC2}

4488 Pathogen[ P14079] interacts with 1 human partners:{Q9NSC2}

4489 Pathogen[ P03383] interacts with 1 human partners:{Q9NSC2}

4490 Pathogen[ P03410] interacts with 1 human partners:{Q9NSC2}

4491 Pathogen[ P14075] interacts with 1 human partners:{Q9NSC2}

4492 Pathogen[ P0C206] interacts with 1 human partners:{Q9NSC2}

4493 [Cluster 740]GO:0033085+P biological\_process [name] negative regulation of T cell differentiation in thymus [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of T cell differentiation in the thymus." [GOC

4494 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8N5P1}

4495 Pathogen[ P03346] interacts with 1 human partners:{Q8N5P1}

4496 Pathogen[ Q85601] interacts with 1 human partners:{Q8N5P1}

4497 Pathogen[ P14079] interacts with 1 human partners:{Q8N5P1}

4498 Pathogen[ P03410] interacts with 1 human partners:{Q8N5P1}

4499 Pathogen[ P0C206] interacts with 1 human partners:{Q8N5P1}

4500 Pathogen[ P03363] interacts with 1 human partners:{Q8N5P1}

4501 [Cluster 741]GO:0060049+P biological\_process [name] regulation of protein glycosylation [def] "Any process that modulates the frequency, rate or extent of protein glycosylation. Protein glycosylation is the addition of a sugar unit to a protein amino acid, e.g. the addition of glycan chains to proteins." [GOC

4502 Pathogen[ P14079] interacts with 1 human partners:{O75072}

4503 [Cluster 742]GO:0021913+P biological\_process [name] regulation of transcription from RNA polymerase II promoter involved in ventral spinal cord interneuron specification [def] "Any process that modulates the frequency, rate or extent of transcription from an RNA polymerase II promoter that results in the commitment of a cell to become an interneuron in the ventral spinal cord." [GO\_REF

4504 Pathogen[ P03346] interacts with 2 human partners:{P78426;P49640}

4505 Pathogen[ P0C206] interacts with 1 human partners:{P49640}

4506 Pathogen[ P03363] interacts with 2 human partners:{Q9C056;P49640}

4507 [Cluster 743]GO:0048070+P biological\_process [name] regulation of developmental pigmentation [def] "Any process that modulates the frequency, rate or extent of the developmental process that results in the deposition of coloring matter in an organism." [GOC

4508 Pathogen[ P03346] interacts with 1 human partners:{Q96AX1}

4509 Pathogen[ P14079] interacts with 1 human partners:{Q96AX1}

4510 Pathogen[ P03410] interacts with 1 human partners:{Q96AX1}

4511 Pathogen[ P0C206] interacts with 1 human partners:{Q96AX1}

4512 [Cluster 744]GO:0002027+P biological\_process [name] regulation of heart rate [def] "Any process that modulates the frequency or rate of heart contraction." [GOC

4513 Pathogen[ Q2Q067] interacts with 2 human partners:{P12883;Q99814}

4514 Pathogen[ P0C214] interacts with 3 human partners:{P12883;Q99814;P13533}

4515 Pathogen[ P03346] interacts with 2 human partners:{Q99814;P78411}

4516 Pathogen[ Q85601] interacts with 3 human partners:{P13533;Q99814;P12883}

4517 Pathogen[ P14079] interacts with 2 human partners:{Q99814;P12883}

4518 Pathogen[ P03383] interacts with 1 human partners:{P12883}

4519 Pathogen[ P03410] interacts with 3 human partners:{Q99814;P12883;P13533}

4520 Pathogen[ P0C206] interacts with 4 human partners:{P13533;P78411;P12883;Q99814}

4521 Pathogen[ P03363] interacts with 2 human partners:{P78411;Q99814}

4522 [Cluster 745]GO:0019372+P biological\_process [name] lipoxygenase pathway [def] "The chemical reactions and pathways by which an unsaturated fatty acid (such as arachidonic acid or linolenic acid) is converted to other compounds, and in which the first step is hydroperoxide formation catalyzed by lipoxygenase." [GOC

4523 Pathogen[ Q2Q067] interacts with 1 human partners:{P09917}

4524 Pathogen[ P0C214] interacts with 1 human partners:{P09917}

4525 Pathogen[ P03346] interacts with 1 human partners:{P09917}

4526 Pathogen[ Q85601] interacts with 1 human partners:{P09917}

4527 Pathogen[ P14079] interacts with 1 human partners:{P09917}

4528 Pathogen[ P03410] interacts with 1 human partners:{P09917}

4529 Pathogen[ P0C206] interacts with 1 human partners:{P09917}

4530 [Cluster 746]GO:0003192+P biological\_process [name] mitral valve formation [def] "The developmental process pertaining to the initial formation of the mitral valve from unspecified parts. This process begins with the specific processes that contribute to the appearance of the discrete structure and ends when the structural rudiment is recognizable." [GOC

4531 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8IX07}

4532 Pathogen[ P0C214] interacts with 1 human partners:{Q8IX07}

4533 Pathogen[ P03346] interacts with 1 human partners:{Q8IX07}

4534 Pathogen[ Q85601] interacts with 1 human partners:{Q8IX07}

4535 Pathogen[ P14079] interacts with 1 human partners:{Q8IX07}

4536 Pathogen[ P03410] interacts with 1 human partners:{Q8IX07}

4537 Pathogen[ POC206] interacts with 1 human partners:{Q8IX07}

4538 [Cluster 747]GO:0060628+P biological\_process [name] regulation of ER to Golgi vesicle-mediated transport [def] "Any process that modulates the rate, frequency, or extent of ER to Golgi vesicle-mediated transport, the directed movement of substances from the endoplasmic reticulum (ER) to the Golgi, mediated by COP II vesicles. Small COP II coated vesicles form from the ER and then fuse directly with the cis-Golgi. Larger structures are transported along microtubules to the cis-Golgi." [GOC

4539 Pathogen[ P14079] interacts with 3 human partners:{Q969M3;P54826;Q9NZ43}

4540 Pathogen[ P03410] interacts with 3 human partners:{Q9NZ43;Q969M3;P54826}

4541 Pathogen[ P14075] interacts with 1 human partners:{P54826}

4542 Pathogen[ POC206] interacts with 2 human partners:{Q969M3;P54826}

4543 [Cluster 748]GO:0021570+P biological\_process [name] rhombomere 4 development [def] "The process whose specific outcome is the progression of rhombomere 4 over time, from its formation to the mature structure. Rhombomeres are transverse segments of the developing rhombencephalon. Rhombomeres are lineage restricted, express different genes from one another, and adopt different developmental fates. Rhombomeres are numbered in anterior to posterior order." [GO\_REF

4544 Pathogen[ Q2Q067] interacts with 3 human partners:{P49639;P14652;P14653}

4545 Pathogen[ POC214] interacts with 2 human partners:{P49639;P14653}

4546 Pathogen[ P03346] interacts with 3 human partners:{P49639;P14652;P14653}

4547 Pathogen[ Q85601] interacts with 2 human partners:{P49639;P14653}

4548 Pathogen[ P14079] interacts with 1 human partners:{P49639}

4549 Pathogen[ P03383] interacts with 1 human partners:{P49639}

4550 Pathogen[ P03410] interacts with 1 human partners:{P49639}

4551 Pathogen[ POC206] interacts with 3 human partners:{P49639;P14653;P14652}

4552 Pathogen[ P03363] interacts with 3 human partners:{P49639;P14653;P14652}

4553 [Cluster 749]GO:0072050+P biological\_process [name] S-shaped body morphogenesis [def] "The process in which the S-shaped body is generated and organized. The S-shaped body is the successor of the comma-shaped body that contributes to the morphogenesis of the nephron." [GOC

4554 Pathogen[ P03346] interacts with 1 human partners:{Q06710}

4555 [Cluster 750]GO:0032375+P biological\_process [name] negative regulation of cholesterol transport [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the directed movement of cholesterol into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore." [GOC

4556 Pathogen[ Q2Q067] interacts with 1 human partners:{P19838}

4557 Pathogen[ POC214] interacts with 1 human partners:{P19838}

4558 Pathogen[ P03346] interacts with 1 human partners:{P19838}

4559 Pathogen[ Q85601] interacts with 1 human partners:{P19838}

4560 Pathogen[ P03383] interacts with 1 human partners:{P19838}

4561 Pathogen[ P03410] interacts with 1 human partners:{P19838}

4562 Pathogen[ P14075] interacts with 1 human partners:{P19838}

4563 Pathogen[ POC206] interacts with 1 human partners:{P19838}

4564 Pathogen[ P03363] interacts with 1 human partners:{P19838}

4565 [Cluster 751]GO:0070127+P biological\_process [name] tRNA aminoacylation for mitochondrial protein translation [def] "The synthesis of aminoacyl tRNA by the formation of an ester bond between the 3'-hydroxyl group of the most 3' adenosine of the tRNA, to be used in ribosome-mediated polypeptide synthesis in a mitochondrion." [GOC

4566 Pathogen[ POC214] interacts with 1 human partners:{Q5JPH6}

4567 Pathogen[ P14079] interacts with 1 human partners:{Q5JPH6}

4568 Pathogen[ P03383] interacts with 1 human partners:{Q5JPH6}

4569 Pathogen[ P03410] interacts with 1 human partners:{Q5JPH6}

4570 Pathogen[ P14075] interacts with 1 human partners:{Q5JPH6}

4571 Pathogen[ POC206] interacts with 1 human partners:{Q5JPH6}

4572 Pathogen[ P03363] interacts with 1 human partners:{Q5JPH6}

4573 [Cluster 752]GO:0070309+P biological\_process [name] lens fiber cell morphogenesis [def] "The process in which the structures of a lens fiber cell are generated and organized. This process occurs while the initially relatively unspecialized cell is acquiring the specialized features of a lens fiber cell. A lens fiber cell is any of the elongated, tightly packed cells that make up the bulk of the mature lens in a camera-type eye." [GOC

4574 Pathogen[ Q2Q067] interacts with 1 human partners:{P02489}

4575 Pathogen[ POC214] interacts with 1 human partners:{P02489}

4576 Pathogen[ P03346] interacts with 2 human partners:{P02489;P07316}

4577 Pathogen[ Q85601] interacts with 1 human partners:{P02489}

4578 Pathogen[ P14079] interacts with 2 human partners:{P07316;P02489}

4579 Pathogen[ P03410] interacts with 2 human partners:{P02489;P07316}

4580 Pathogen[ POC206] interacts with 2 human partners:{P07316;P02489}

4581 Pathogen[ P03363] interacts with 2 human partners:{P07316;P02489}

4582 [Cluster 753]GO:0050765+P biological\_process [name] negative regulation of phagocytosis [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of phagocytosis." [GOC

4583 Pathogen[ P14079] interacts with 1 human partners:{Q99439}

4584 Pathogen[ P03410] interacts with 1 human partners:{Q99439}

4585 [Cluster 754]GO:0071174+P biological\_process [name] mitotic cell cycle spindle checkpoint [def] "A cell cycle checkpoint that delays the metaphase/anaphase transition

of a mitotic nuclear division until the spindle is correctly assembled and oriented, and chromosomes are attached to the spindle." [GOC

4586 Pathogen[ Q2Q067] interacts with 1 human partners:{P14635}

4587 Pathogen[ P0C214] interacts with 1 human partners:{P14635}

4588 Pathogen[ P03346] interacts with 1 human partners:{P14635}

4589 Pathogen[ Q85601] interacts with 1 human partners:{P14635}

4590 Pathogen[ P14079] interacts with 1 human partners:{P14635}

4591 Pathogen[ P03383] interacts with 1 human partners:{P14635}

4592 Pathogen[ P03410] interacts with 1 human partners:{P14635}

4593 Pathogen[ P14075] interacts with 1 human partners:{P14635}

4594 Pathogen[ P0C206] interacts with 1 human partners:{P14635}

4595 [Cluster 755]GO:0034340+P biological\_process [name] response to type I interferon [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a type I interferon stimulus. Type I interferons include the interferon-alpha, beta, delta, epsilon, zeta, kappa, tau, and omega gene families." [GOC

4596 Pathogen[ Q2Q067] interacts with 1 human partners:{P23497}

4597 Pathogen[ P0C214] interacts with 1 human partners:{P23497}

4598 Pathogen[ P03346] interacts with 1 human partners:{P23497}

4599 Pathogen[ P14079] interacts with 1 human partners:{P23497}

4600 Pathogen[ P03383] interacts with 1 human partners:{P23497}

4601 Pathogen[ P14075] interacts with 1 human partners:{P23497}

4602 Pathogen[ P03363] interacts with 1 human partners:{P23497}

4603 [Cluster 756]GO:0005992+P biological\_process [name] trehalose biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of trehalose, a disaccharide isomeric with sucrose and obtained from certain lichens and fungi." [GOC

4604 Pathogen[ Q2Q067] interacts with 1 human partners:{P36871}

4605 Pathogen[ P0C214] interacts with 2 human partners:{P36871;Q15124}

4606 Pathogen[ P03346] interacts with 1 human partners:{P36871}

4607 Pathogen[ Q85601] interacts with 2 human partners:{Q15124;P36871}

4608 Pathogen[ P14079] interacts with 2 human partners:{Q15124;P36871}

4609 Pathogen[ P03410] interacts with 2 human partners:{P36871;Q15124}

4610 Pathogen[ P0C206] interacts with 2 human partners:{Q15124;P36871}

4611 [Cluster 757]GO:0009152+P biological\_process [name] purine ribonucleotide biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of a purine ribonucleotide, a compound consisting of ribonucleoside (a purine base linked to a ribose sugar) esterified with a phosphate group at either the 3' or 5'-hydroxyl group of the sugar." [GOC

4612 Pathogen[ P0C214] interacts with 1 human partners:{P30566}

4613 Pathogen[ P03410] interacts with 1 human partners:{P30566}

4614 [Cluster 758]GO:0006573+P biological\_process [name] valine metabolic process [def] "The chemical reactions and pathways involving valine, 2-amino-3-methylbutanoic acid." [GOC

4615 Pathogen[ P0C214] interacts with 1 human partners:{O15382}

4616 Pathogen[ Q85601] interacts with 1 human partners:{O15382}

4617 Pathogen[ P14079] interacts with 1 human partners:{O15382}

4618 Pathogen[ P03410] interacts with 1 human partners:{O15382}

4619 Pathogen[ P0C206] interacts with 1 human partners:{O15382}

4620 [Cluster 759]GO:0070814+P biological\_process [name] hydrogen sulfide biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of hydrogen sulfide, H2S." [CHEBI

4621 Pathogen[ Q2Q067] interacts with 1 human partners:{P32929}

4622 Pathogen[ P0C214] interacts with 2 human partners:{P32929;P35520}

4623 Pathogen[ P03346] interacts with 1 human partners:{P32929}

4624 Pathogen[ Q85601] interacts with 1 human partners:{P32929}

4625 Pathogen[ P14079] interacts with 1 human partners:{P32929}

4626 Pathogen[ P03410] interacts with 1 human partners:{P32929}

4627 Pathogen[ P0C206] interacts with 1 human partners:{P32929}

4628 [Cluster 760]GO:0030187+P biological\_process [name] melatonin biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of melatonin (N-acetyl-5-methoxytryptamine)." [GOC

4629 Pathogen[ P0C214] interacts with 1 human partners:{Q16613}

4630 Pathogen[ Q85601] interacts with 1 human partners:{Q16613}

4631 Pathogen[ P14079] interacts with 1 human partners:{Q16613}

4632 Pathogen[ P03383] interacts with 1 human partners:{Q16613}

4633 Pathogen[ P03410] interacts with 1 human partners:{Q16613}

4634 Pathogen[ P14075] interacts with 1 human partners:{Q16613}

4635 Pathogen[ P0C206] interacts with 1 human partners:{Q16613}

4636 [Cluster 761]GO:2000780+P biological\_process [name] negative regulation of double-strand break repair [def] "Any process that stops, prevents or reduces the frequency, rate or extent of double-strand break repair." [GOC

4637 Pathogen[ Q2Q067] interacts with 1 human partners:{Q14669}

4638 Pathogen[ P0C214] interacts with 2 human partners:{O95071;Q14669}

4639 Pathogen[ P03346] interacts with 3 human partners:{Q14669;Q96FW1;O95071}

4640 Pathogen[ Q85601] interacts with 2 human partners:{Q14669;O95071}

4641 Pathogen[ P14079] interacts with 1 human partners:{Q96FW1}

4642 Pathogen[ P03410] interacts with 1 human partners:{Q96FW1}

4643 Pathogen[ P14075] interacts with 1 human partners:{Q96FW1}

4644 Pathogen[ P0C206] interacts with 3 human partners:{Q14669;Q96FW1;O95071}

4645 Pathogen[ P03363] interacts with 3 human partners:{Q14669;O95071;Q96FW1}

4646 [Cluster 762]GO:0048711+P biological\_process [name] positive regulation of astrocyte differentiation [def] "Any process that activates or increases the frequency, rate or extent of astrocyte differentiation." [GOC

4647 Pathogen[ P0C214] interacts with 1 human partners:{P07093}

4648 Pathogen[ Q85601] interacts with 1 human partners:{P07093}

4649 [Cluster 763]GO:0051224+P biological\_process [name] negative regulation of protein transport [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the directed movement of a protein into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore." [GOC

4650 Pathogen[ P0C214] interacts with 2 human partners:{O00308;Q9NV92}

4651 Pathogen[ P03346] interacts with 2 human partners:{Q9NV92;O00308}

4652 Pathogen[ P14079] interacts with 1 human partners:{Q9NV92}

4653 Pathogen[ P03410] interacts with 1 human partners:{Q9NV92}

4654 Pathogen[ P14075] interacts with 1 human partners:{Q9NV92}

4655 Pathogen[ P0C206] interacts with 2 human partners:{O00308;Q9NV92}

4656 Pathogen[ P03363] interacts with 1 human partners:{O00308}

4657 [Cluster 764]GO:0060351+P biological\_process [name] cartilage development involved in endochondral bone morphogenesis [def] "The process whose specific outcome is the progression of the cartilage that will provide a scaffold for mineralization of endochondral bones." [GOC

4658 Pathogen[ P0C214] interacts with 1 human partners:{P35520}

4659 Pathogen[ P03346] interacts with 1 human partners:{P31270}

4660 [Cluster 765]GO:0071397+P biological\_process [name] cellular response to cholesterol [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a cholesterol stimulus." [GOC

4661 Pathogen[ P03410] interacts with 1 human partners:{Q15049}

4662 [Cluster 766]GO:0018160+P biological\_process [name] peptidyl-pyrromethane cofactor linkage [def] "The covalent binding of a pyrromethane (dipyrin) cofactor to protein via the sulfur atom of cysteine forming dipyrrolylmethanemethyl-L-cysteine." [CHEBI

4663 Pathogen[ Q2Q067] interacts with 1 human partners:{P08397}

4664 Pathogen[ P0C214] interacts with 1 human partners:{P08397}

4665 Pathogen[ Q85601] interacts with 1 human partners:{P08397}

4666 Pathogen[ P14079] interacts with 1 human partners:{P08397}

4667 Pathogen[ P03383] interacts with 1 human partners:{P08397}

4668 Pathogen[ P03410] interacts with 1 human partners:{P08397}

4669 Pathogen[ P14075] interacts with 1 human partners:{P08397}

4670 Pathogen[ P0C206] interacts with 1 human partners:{P08397}

4671 [Cluster 767]GO:0031667+P biological\_process [name] response to nutrient levels [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a stimulus reflecting the presence, absence, or concentration of nutrients." [GOC

4672 Pathogen[ Q2Q067] interacts with 1 human partners:{P08397}

4673 Pathogen[ P0C214] interacts with 4 human partners:{P00480;P08397;P05543;P35520}

4674 Pathogen[ Q85601] interacts with 2 human partners:{P00480;P08397}

4675 Pathogen[ P14079] interacts with 4 human partners:{P13498;P08397;P48681;P00480}

4676 Pathogen[ P03383] interacts with 1 human partners:{P08397}

4677 Pathogen[ P03410] interacts with 2 human partners:{P08397;P00480}

4678 Pathogen[ P14075] interacts with 1 human partners:{P08397}

4679 Pathogen[ P0C206] interacts with 2 human partners:{P08397;P00480}

4680 [Cluster 768]GO:0010559+P biological\_process [name] regulation of glycoprotein biosynthetic process [def] "Any process that modulates the rate, frequency, or extent of the chemical reactions and pathways resulting in the formation of glycoproteins, any protein that contains covalently bound glucose (i.e. monosaccharide) residues\_ the glucose occurs most commonly as oligosaccharide or fairly small polysaccharide but occasionally as monosaccharide." [GOC

4681 Pathogen[ Q2Q067] interacts with 1 human partners:{P15976}

4682 Pathogen[ P03346] interacts with 1 human partners:{P15976}

4683 Pathogen[ Q85601] interacts with 1 human partners:{P15976}

4684 Pathogen[ P14079] interacts with 1 human partners:{P15976}

4685 Pathogen[ P03410] interacts with 1 human partners:{P15976}

4686 Pathogen[ P0C206] interacts with 1 human partners:{P15976}

4687 [Cluster 769]GO:0051891+P biological\_process [name] positive regulation of cardioblast differentiation [def] "Any process that activates or increases the frequency, rate or extent of cardioblast differentiation, the process in which a relatively unspecialized mesodermal cell acquires the specialized structural and/or functional features of a cardioblast. A cardioblast is a cardiac precursor cell. It is a cell that has been committed to a cardiac fate, but will undergo more cell division rather than terminally differentiating." [GOC

4688 Pathogen[ P03346] interacts with 1 human partners:{Q99593}

4689 [Cluster 770]GO:0043097+P biological\_process [name] pyrimidine nucleoside salvage [def] "Any process that generates a pyrimidine nucleoside, one of a family of organic molecules consisting of a pyrimidine base covalently bonded to a sugar ribose, from derivatives of it, without de novo synthesis." [GOC  
4690 Pathogen[ P0C214] interacts with 2 human partners:{095045;Q16831}  
4691 Pathogen[ Q85601] interacts with 1 human partners:{095045}  
4692 Pathogen[ P14079] interacts with 2 human partners:{Q16831;095045}  
4693 Pathogen[ P03410] interacts with 2 human partners:{095045;Q16831}  
4694 Pathogen[ P14075] interacts with 1 human partners:{095045}  
4695 Pathogen[ P0C206] interacts with 2 human partners:{Q16831;095045}  
4696 [Cluster 771]GO:0019370+P biological\_process [name] leukotriene biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of leukotriene, a pharmacologically active substance derived from a polyunsaturated fatty acid, such as arachidonic acid." [GOC  
4697 Pathogen[ Q2Q067] interacts with 1 human partners:{P09917}  
4698 Pathogen[ P0C214] interacts with 2 human partners:{P09917;P18054}  
4699 Pathogen[ P03346] interacts with 2 human partners:{P18054;P09917}  
4700 Pathogen[ Q85601] interacts with 1 human partners:{P09917}  
4701 Pathogen[ P14079] interacts with 7 human partners:{Q16873;P20292;Q4G0N0;Q9BX51;B5MD39;Q14390;P09917}  
4702 Pathogen[ P03410] interacts with 5 human partners:{Q4G0N0;B5MD39;Q16873;P09917;P20292}  
4703 Pathogen[ P0C206] interacts with 2 human partners:{P09917;P20292}  
4704 [Cluster 772]GO:0010032+P biological\_process [name] meiotic chromosome condensation [def] "Compaction of chromatin structure prior to meiosis in eukaryotic cells." [PMID  
4705 Pathogen[ P14079] interacts with 1 human partners:{Q7Z7C7}  
4706 Pathogen[ P03410] interacts with 1 human partners:{Q7Z7C7}  
4707 Pathogen[ P14075] interacts with 1 human partners:{Q7Z7C7}  
4708 Pathogen[ P0C206] interacts with 1 human partners:{Q7Z7C7}  
4709 [Cluster 773]GO:0060691+P biological\_process [name] epithelial cell maturation involved in salivary gland development [def] "The developmental process, independent of morphogenetic (shape) change, that is required for an epithelial cell of the salivary gland to attain its fully functional state." [GOC  
4710 Pathogen[ Q2Q067] interacts with 1 human partners:{P17861}  
4711 Pathogen[ P0C214] interacts with 1 human partners:{P17861}  
4712 Pathogen[ P03346] interacts with 1 human partners:{P17861}  
4713 Pathogen[ Q85601] interacts with 1 human partners:{P17861}  
4714 Pathogen[ P03383] interacts with 1 human partners:{P17861}  
4715 Pathogen[ P03410] interacts with 1 human partners:{P17861}  
4716 Pathogen[ P14075] interacts with 1 human partners:{P17861}  
4717 Pathogen[ P0C206] interacts with 1 human partners:{P17861}  
4718 Pathogen[ P03363] interacts with 1 human partners:{P17861}  
4719 [Cluster 774]GO:0015840+P biological\_process [name] urea transport [def] "The directed movement of urea into, out of or within the cell. Urea is the water-soluble compound H<sub>2</sub>N-CO-NH<sub>2</sub>." [GOC  
4720 Pathogen[ P14079] interacts with 2 human partners:{Q8NBQ7;Q15849}  
4721 Pathogen[ P03410] interacts with 2 human partners:{Q13336;Q15849}  
4722 Pathogen[ P0C206] interacts with 1 human partners:{Q15849}  
4723 [Cluster 775]GO:0048739+P biological\_process [name] cardiac muscle fiber development [def] "The process whose specific outcome is the progression of cardiac muscle fiber over time, from its formation to the mature structure." [GOC  
4724 Pathogen[ P0C214] interacts with 2 human partners:{P13533;P35749}  
4725 Pathogen[ Q85601] interacts with 2 human partners:{P13533;P35749}  
4726 Pathogen[ P14079] interacts with 1 human partners:{O15273}  
4727 Pathogen[ P03410] interacts with 2 human partners:{O15273;P13533}  
4728 Pathogen[ P0C206] interacts with 2 human partners:{P13533;P35749}  
4729 [Cluster 776]GO:0007597+P biological\_process [name] blood coagulation, intrinsic pathway [def] "A protein activation cascade that contributes to blood coagulation and consists of the interactions among high molecular weight kininogen, prekallikrein, and factor XII that lead to the activation of clotting factor X." [GOC  
4730 Pathogen[ Q2Q067] interacts with 1 human partners:{Q07021}  
4731 Pathogen[ P03346] interacts with 1 human partners:{Q07021}  
4732 Pathogen[ Q85601] interacts with 1 human partners:{Q07021}  
4733 Pathogen[ P14079] interacts with 1 human partners:{Q07021}  
4734 Pathogen[ P03383] interacts with 1 human partners:{Q07021}  
4735 Pathogen[ P03410] interacts with 1 human partners:{Q07021}  
4736 Pathogen[ P14075] interacts with 1 human partners:{Q07021}  
4737 Pathogen[ P0C206] interacts with 1 human partners:{Q07021}  
4738 Pathogen[ P03363] interacts with 1 human partners:{Q07021}  
4739 [Cluster 777]GO:2000463+P biological\_process [name] positive regulation of excitatory postsynaptic membrane potential [def] "Any process that enhances the establishment or increases the extent of the excitatory postsynaptic potential (EPSP) which is a temporary increase in postsynaptic potential due to the flow of positively charged ions into the postsynaptic cell. The flow of ions that causes an EPSP is an excitatory postsynaptic current (EPSC) and makes it easier for the neuron to fire an action potential." [GOC



4740 Pathogen[ Q2Q067] interacts with 1 human partners:{P78352}

4741 Pathogen[ POC214] interacts with 1 human partners:{P78352}

4742 Pathogen[ P03346] interacts with 1 human partners:{P78352}

4743 Pathogen[ Q85601] interacts with 1 human partners:{P78352}

4744 Pathogen[ P03383] interacts with 1 human partners:{P78352}

4745 Pathogen[ P03410] interacts with 1 human partners:{P78352}

4746 Pathogen[ P14075] interacts with 1 human partners:{P78352}

4747 Pathogen[ POC206] interacts with 1 human partners:{P78352}

4748 Pathogen[ P03363] interacts with 1 human partners:{P78352}

4749 [Cluster 778]GO:0043243+P biological\_process [name] positive regulation of protein complex disassembly [def] "Any process that activates or increases the frequency, rate or extent of protein complex disassembly, the disaggregation of a protein complex into its constituent components." [GOC

4750 Pathogen[ Q2Q067] interacts with 1 human partners:{Q12983}

4751 Pathogen[ POC214] interacts with 1 human partners:{Q12983}

4752 Pathogen[ P03346] interacts with 1 human partners:{Q12983}

4753 Pathogen[ Q85601] interacts with 1 human partners:{Q12983}

4754 Pathogen[ P14079] interacts with 2 human partners:{O60502;Q12983}

4755 Pathogen[ P03383] interacts with 1 human partners:{Q12983}

4756 Pathogen[ P03410] interacts with 2 human partners:{Q12983;O60502}

4757 Pathogen[ P14075] interacts with 1 human partners:{Q12983}

4758 Pathogen[ POC206] interacts with 1 human partners:{Q12983}

4759 [Cluster 779]GO:0032543+P biological\_process [name] mitochondrial translation [def] "The chemical reactions and pathways resulting in the formation of a protein in a mitochondrion. This is a ribosome-mediated process in which the information in messenger RNA (mRNA) is used to specify the sequence of amino acids in the protein\_ the mitochondrion has its own ribosomes and transfer RNAs, and uses a genetic code that differs from the nuclear code." [GOC

4760 Pathogen[ P14079] interacts with 5 human partners:{O75879;O43716;Q9H0R6;Q8NC60;Q969S9}

4761 Pathogen[ P03410] interacts with 5 human partners:{O75879;Q969S9;Q8NC60;Q96EY7;Q9H0R6}

4762 [Cluster 780]GO:0010544+P biological\_process [name] negative regulation of platelet activation [def] "Any process that decreases the rate or frequency of platelet activation. Platelet activation is a series of progressive, overlapping events triggered by exposure of the platelets to subendothelial tissue." [GOC

4763 Pathogen[ Q2Q067] interacts with 1 human partners:{P29474}

4764 Pathogen[ POC214] interacts with 2 human partners:{P29474;P07093}

4765 Pathogen[ P03346] interacts with 1 human partners:{P29474}

4766 Pathogen[ Q85601] interacts with 2 human partners:{P29474;P07093}

4767 Pathogen[ P03383] interacts with 1 human partners:{P29474}

4768 Pathogen[ P03410] interacts with 1 human partners:{P29474}

4769 Pathogen[ P14075] interacts with 1 human partners:{P29474}

4770 Pathogen[ POC206] interacts with 1 human partners:{P29474}

4771 Pathogen[ P03363] interacts with 1 human partners:{P29474}

4772 [Cluster 781]GO:0043418+P biological\_process [name] homocysteine catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of homocysteine, the amino acid alpha-amino-gamma-mercaptobutanoic acid." [GOC

4773 Pathogen[ POC214] interacts with 1 human partners:{P35520}

4774 [Cluster 782]GO:0006269+P biological\_process [name] DNA replication, synthesis of RNA primer [def] "The synthesis of a short RNA polymer, usually 4-15 nucleotides long, using one strand of unwound DNA as a template\_ the RNA then serves as a primer from which DNA polymerases extend synthesis." [PMID

4775 Pathogen[ P14079] interacts with 2 human partners:{Q96LW4;P49642}

4776 Pathogen[ P03410] interacts with 2 human partners:{Q96LW4;P49642}

4777 Pathogen[ POC206] interacts with 1 human partners:{P49642}

4778 [Cluster 783]GO:0035992+P biological\_process [name] tendon formation [def] "The process that gives rise to a tendon. This process pertains to the initial formation of a tendon from unspecified parts." [GOC

4779 Pathogen[ P03346] interacts with 1 human partners:{Q8IYA7}

4780 Pathogen[ P03363] interacts with 1 human partners:{Q8IYA7}

4781 [Cluster 784]GO:0035910+P biological\_process [name] ascending aorta morphogenesis [def] "The process in which the anatomical structures of the ascending aorta are generated and organized. The ascending aorta is the portion of the aorta in a two-pass circulatory system that lies between the heart and the arch of aorta. In a two-pass circulatory system blood passes twice through the heart to supply the body once." [GOC

4782 Pathogen[ P03346] interacts with 1 human partners:{Q06945}

4783 [Cluster 785]GO:0060368+P biological\_process [name] regulation of Fc receptor mediated stimulatory signaling pathway [def] "Any process that modulates the rate, frequency or extent of the Fc receptor mediated stimulatory signaling pathway. The Fc receptor mediated stimulatory signaling pathway is a series of molecular signals generated as a consequence of a the binding of the Fc portion of an immunoglobulin by an Fc receptor capable of activating or perpetuating an immune response. The Fc portion of an immunoglobulin is its C-terminal constant region." [GOC

4784 Pathogen[ Q2Q067] interacts with 1 human partners:{O15162}

4785 Pathogen[ POC214] interacts with 1 human partners:{O15162}

4786 Pathogen[ P03346] interacts with 1 human partners:{015162}

4787 Pathogen[ Q85601] interacts with 1 human partners:{015162}

4788 Pathogen[ P14079] interacts with 1 human partners:{015162}

4789 Pathogen[ P03383] interacts with 1 human partners:{015162}

4790 Pathogen[ P03410] interacts with 1 human partners:{015162}

4791 Pathogen[ P14075] interacts with 1 human partners:{015162}

4792 Pathogen[ P0C206] interacts with 1 human partners:{015162}

4793 [Cluster 786]GO:0000103+P biological\_process [name] sulfate assimilation [def] "The pathways by which inorganic sulfate is processed and incorporated into sulfated compounds." [GOC

4794 Pathogen[ Q2Q067] interacts with 1 human partners:{000204}

4795 Pathogen[ P0C214] interacts with 1 human partners:{000204}

4796 Pathogen[ P03346] interacts with 1 human partners:{000204}

4797 Pathogen[ Q85601] interacts with 1 human partners:{000204}

4798 Pathogen[ P03410] interacts with 1 human partners:{000204}

4799 Pathogen[ P0C206] interacts with 1 human partners:{000204}

4800 Pathogen[ P03363] interacts with 1 human partners:{000204}

4801 [Cluster 787]GO:0015961+P biological\_process [name] diadenosine polyphosphate catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of diadenosine polyphosphate, a derivative of the nucleoside adenosine with phosphate groups attached." [GOC

4802 Pathogen[ P0C214] interacts with 1 human partners:{095989}

4803 Pathogen[ Q85601] interacts with 1 human partners:{095989}

4804 Pathogen[ P14079] interacts with 1 human partners:{095989}

4805 Pathogen[ P03383] interacts with 1 human partners:{095989}

4806 Pathogen[ P03410] interacts with 1 human partners:{095989}

4807 Pathogen[ P14075] interacts with 1 human partners:{095989}

4808 Pathogen[ P0C206] interacts with 1 human partners:{095989}

4809 [Cluster 788]GO:0090370+P biological\_process [name] negative regulation of cholesterol efflux [def] "Any process that decreases the frequency, rate or extent of cholesterol efflux. Cholesterol efflux is the directed movement of cholesterol, cholest-5-en-3-beta-ol, out of a cell or organelle." [GOC

4810 Pathogen[ P03346] interacts with 1 human partners:{Q12772}

4811 Pathogen[ Q85601] interacts with 1 human partners:{Q12772}

4812 Pathogen[ P14079] interacts with 1 human partners:{Q12772}

4813 Pathogen[ P03410] interacts with 1 human partners:{Q12772}

4814 Pathogen[ P0C206] interacts with 1 human partners:{Q12772}

4815 [Cluster 789]GO:0015680+P biological\_process [name] intracellular copper ion transport [def] "The directed movement of copper (Cu) ions within a cell." [GOC

4816 Pathogen[ Q2Q067] interacts with 1 human partners:{014618}

4817 Pathogen[ P0C214] interacts with 1 human partners:{014618}

4818 Pathogen[ P03346] interacts with 1 human partners:{014618}

4819 Pathogen[ Q85601] interacts with 1 human partners:{014618}

4820 Pathogen[ P14079] interacts with 1 human partners:{014618}

4821 Pathogen[ P03410] interacts with 1 human partners:{014618}

4822 Pathogen[ P0C206] interacts with 1 human partners:{014618}

4823 Pathogen[ P03363] interacts with 1 human partners:{014618}

4824 [Cluster 790]GO:0048312+P biological\_process [name] intracellular distribution of mitochondria [def] "Any process that establishes the spatial arrangement of mitochondria within the cell." [GOC

4825 Pathogen[ P0C214] interacts with 1 human partners:{015056}

4826 Pathogen[ P03346] interacts with 2 human partners:{Q7RTS1;015056}

4827 Pathogen[ P14079] interacts with 1 human partners:{Q7RTS1}

4828 Pathogen[ P03410] interacts with 1 human partners:{Q7RTS1}

4829 Pathogen[ P03363] interacts with 2 human partners:{Q7RTS1;015056}

4830 [Cluster 791]GO:0016189+P biological\_process [name] synaptic vesicle to endosome fusion [def] "Fusion of a synaptic vesicle with the membrane of an endosome." [GOC

4831 Pathogen[ P14079] interacts with 1 human partners:{Q15075}

4832 [Cluster 792]GO:0048644+P biological\_process [name] muscle organ morphogenesis [def] "The process in which the anatomical structures of muscle are generated and organized." [GOC

4833 Pathogen[ Q2Q067] interacts with 2 human partners:{P13349;Q14865}

4834 Pathogen[ P0C214] interacts with 2 human partners:{Q14865;P13349}

4835 Pathogen[ P03346] interacts with 3 human partners:{P13349;Q14865;P56915}

4836 Pathogen[ Q85601] interacts with 2 human partners:{P13349;Q14865}

4837 Pathogen[ P14079] interacts with 3 human partners:{P13349;Q14865;Q9Y6X1}

4838 Pathogen[ P03410] interacts with 3 human partners:{Q9Y6X1;P13349;Q14865}

4839 Pathogen[ P0C206] interacts with 2 human partners:{P13349;Q14865}

4840 Pathogen[ P03363] interacts with 3 human partners:{Q14865;P13349;P56915}

4841 [Cluster 793]GO:0060571+P biological\_process [name] morphogenesis of an epithelial fold [def] "The morphogenetic process in which an epithelial sheet bends along a linear axis." [GOC

4842 Pathogen[ P03346] interacts with 1 human partners:{P35453}

4843 Pathogen[ P03363] interacts with 1 human partners:{P35453}

4844 [Cluster 794]GO:0043117+P biological\_process [name] positive regulation of vascular permeability [def] "Any process that increases the extent to which blood vessels can

be pervaded by fluid." [GOC  
4845 Pathogen[ P14079] interacts with 1 human partners:{Q8TAT2}  
4846 Pathogen[ P03410] interacts with 1 human partners:{Q8TAT2}  
4847 [Cluster 795]GO:0007530+P biological\_process [name] sex determination [def] "Any process that establishes and transmits the specification of sexual status of an individual organism." [ISBN  
4848 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9Y5R5}  
4849 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y5R5}  
4850 Pathogen[ P03346] interacts with 5 human partners:{P41225;Q9Y5R5;O43680;P51843;Q9Y5R6}  
4851 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y5R5}  
4852 Pathogen[ P14079] interacts with 1 human partners:{Q9Y5R5}  
4853 Pathogen[ P03383] interacts with 1 human partners:{Q9Y5R5}  
4854 Pathogen[ P14075] interacts with 1 human partners:{Q9Y5R5}  
4855 Pathogen[ P0C206] interacts with 2 human partners:{Q9Y5R6;Q9Y5R5}  
4856 Pathogen[ P03363] interacts with 2 human partners:{Q9Y5R6;Q9Y5R5}  
4857 [Cluster 796]GO:0032940+P biological\_process [name] secretion by cell [def] "The controlled release of a substance by a cell." [GOC  
4858 Pathogen[ P0C214] interacts with 1 human partners:{P07093}  
4859 Pathogen[ Q85601] interacts with 1 human partners:{P07093}  
4860 Pathogen[ P14079] interacts with 1 human partners:{Q9NZ43}  
4861 Pathogen[ P03410] interacts with 1 human partners:{Q9NZ43}  
4862 [Cluster 797]GO:0043116+P biological\_process [name] negative regulation of vascular permeability [def] "Any process that reduces the extent to which blood vessels can be pervaded by fluid." [GOC  
4863 Pathogen[ P14079] interacts with 1 human partners:{O60895}  
4864 Pathogen[ P03410] interacts with 1 human partners:{O60895}  
4865 [Cluster 798]GO:0030047+P biological\_process [name] actin modification [def] "Covalent modification of an actin molecule." [GOC  
4866 Pathogen[ P14079] interacts with 1 human partners:{Q9H2D6}  
4867 Pathogen[ P03410] interacts with 1 human partners:{Q9H2D6}  
4868 Pathogen[ P03363] interacts with 1 human partners:{Q9H2D6}  
4869 [Cluster 799]GO:0035020+P biological\_process [name] regulation of Rac protein signal transduction [def] "Any process that modulates the frequency, rate or extent of Rac protein signal transduction." [GOC  
4870 Pathogen[ Q2Q067] interacts with 1 human partners:{P46108}  
4871 Pathogen[ P0C214] interacts with 1 human partners:{P46108}  
4872 Pathogen[ P03346] interacts with 1 human partners:{P46108}  
4873 Pathogen[ Q85601] interacts with 1 human partners:{P46108}  
4874 Pathogen[ P14079] interacts with 1 human partners:{P46108}  
4875 Pathogen[ P03410] interacts with 1 human partners:{P46108}  
4876 Pathogen[ P0C206] interacts with 1 human partners:{P46108}  
4877 Pathogen[ P03363] interacts with 1 human partners:{P46108}  
4878 [Cluster 800]GO:0050910+P biological\_process [name] detection of mechanical stimulus involved in sensory perception of sound [def] "The series of events involved in the perception of sound vibration. The vibration is received by a cell and converted into a molecular signal." [GOC  
4879 Pathogen[ P14079] interacts with 1 human partners:{Q7RTU9}  
4880 Pathogen[ P03410] interacts with 1 human partners:{Q7RTU9}  
4881 [Cluster 801]GO:0008654+P biological\_process [name] phospholipid biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of phospholipids, any lipid containing phosphoric acid as a mono- or diester." [ISBN  
4882 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UG56}  
4883 Pathogen[ P0C214] interacts with 1 human partners:{Q9UG56}  
4884 Pathogen[ P03346] interacts with 2 human partners:{Q9Y371;Q9UG56}  
4885 Pathogen[ Q85601] interacts with 1 human partners:{Q9UG56}  
4886 Pathogen[ P14079] interacts with 7 human partners:{Q9NPH2;Q86VE9;Q32NB8;Q9Y371;Q9NRX5;Q96JX3;Q9UG56}  
4887 Pathogen[ P03410] interacts with 6 human partners:{Q9NPH2;Q86VE9;Q9NRX5;Q96JX3;Q9Y371;Q9UG56}  
4888 Pathogen[ P14075] interacts with 1 human partners:{Q9UG56}  
4889 Pathogen[ P0C206] interacts with 1 human partners:{Q9UG56}  
4890 [Cluster 802]GO:0097089+P biological\_process [name] methyl-branched fatty acid metabolic process [def] "The chemical reactions and pathways involving methyl-branched fatty acids, aliphatic monocarboxylic acids with methyl branches on the main chain." [CHEBI  
4891 Pathogen[ P0C214] interacts with 1 human partners:{O14832}  
4892 Pathogen[ P14079] interacts with 1 human partners:{O14832}  
4893 Pathogen[ P03410] interacts with 1 human partners:{O14832}  
4894 Pathogen[ P14075] interacts with 1 human partners:{O14832}  
4895 Pathogen[ P0C206] interacts with 1 human partners:{O14832}  
4896 [Cluster 803]GO:0010734+P biological\_process [name] negative regulation of protein glutathionylation [def] "Any process that decreases the rate, frequency, or extent of protein glutathionylation. Protein glutathionylation is the protein modification process in which a glutathione molecule is added to a protein amino acid through a disulfide linkage." [GOC

4897 Pathogen[ POC214] interacts with 1 human partners:{P11413}

4898 [Cluster 804]GO:0043456+P biological\_process [name] regulation of pentose-phosphate shunt [def] "Any process that modulates the frequency, rate or extent of the pentose-phosphate shunt, the process in which glucose is oxidized, coupled to NADPH synthesis." [GOC

4899 Pathogen[ Q2Q067] interacts with 1 human partners:{P18669}

4900 Pathogen[ P03346] interacts with 1 human partners:{P18669}

4901 Pathogen[ Q85601] interacts with 1 human partners:{P18669}

4902 Pathogen[ P14079] interacts with 1 human partners:{P18669}

4903 Pathogen[ P03383] interacts with 1 human partners:{P18669}

4904 Pathogen[ P03410] interacts with 1 human partners:{P18669}

4905 Pathogen[ P14075] interacts with 1 human partners:{P18669}

4906 Pathogen[ POC206] interacts with 1 human partners:{P18669}

4907 Pathogen[ P03363] interacts with 1 human partners:{P18669}

4908 [Cluster 805]GO:0008299+P biological\_process [name] isoprenoid biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of any isoprenoid compound, isoprene (2-methylbuta-1,3-diene) or compounds containing or derived from linked isoprene (3-methyl-2-butenylene) residues." [ISBN

4909 Pathogen[ Q2Q067] interacts with 1 human partners:{P14324}

4910 Pathogen[ POC214] interacts with 3 human partners:{Q13907;Q9BXS1;P14324}

4911 Pathogen[ P03346] interacts with 1 human partners:{P14324}

4912 Pathogen[ Q85601] interacts with 2 human partners:{P14324;Q13907}

4913 Pathogen[ P14079] interacts with 5 human partners:{Q9BXS1;Q86YH6;Q13907;P14324;P53602}

4914 Pathogen[ P03383] interacts with 1 human partners:{P14324}

4915 Pathogen[ P03410] interacts with 5 human partners:{P53602;Q13907;Q86YH6;P14324;Q9BXS1}

4916 Pathogen[ P14075] interacts with 1 human partners:{P14324}

4917 Pathogen[ POC206] interacts with 3 human partners:{P14324;Q13907;Q9BXS1}

4918 [Cluster 806]GO:0033136+P biological\_process [name] serine phosphorylation of STAT3 protein [def] "The process of introducing a phosphate group to a serine residue of the STAT3 protein." [GOC

4919 Pathogen[ P14079] interacts with 1 human partners:{Q15078}

4920 [Cluster 807]GO:0071599+P biological\_process [name] otic vesicle development [def] "The process whose specific outcome is the progression of the otic vesicle over time, from its formation to the mature structure. The otic vesicle is a transient embryonic structure formed during development of the vertebrate inner ear." [GOC

4921 Pathogen[ P03346] interacts with 3 human partners:{Q06710;Q15475;Q8N157}

4922 Pathogen[ P14079] interacts with 1 human partners:{Q8N157}

4923 Pathogen[ P03410] interacts with 1 human partners:{Q8N157}

4924 Pathogen[ POC206] interacts with 1 human partners:{Q8N157}

4925 Pathogen[ P03363] interacts with 1 human partners:{Q8N157}

4926 [Cluster 808]GO:0042776+P biological\_process [name] mitochondrial ATP synthesis coupled proton transport [def] "The transport of protons across a mitochondrial membrane to generate an electrochemical gradient (proton-motive force) that powers ATP synthesis." [GOC

4927 Pathogen[ Q2Q067] interacts with 1 human partners:{P24539}

4928 Pathogen[ POC214] interacts with 2 human partners:{P36542;P24539}

4929 Pathogen[ P03346] interacts with 1 human partners:{P24539}

4930 Pathogen[ Q85601] interacts with 1 human partners:{P24539}

4931 Pathogen[ P14079] interacts with 8 human partners:{P36542;P56134;P25705;P56385;P03928;O75964;P56381;P24539}

4932 Pathogen[ P03383] interacts with 1 human partners:{P24539}

4933 Pathogen[ P03410] interacts with 9 human partners:{P36542;P25705;P56385;P56381;P03928;P24539;O75964;P18859;P56134}

4934 Pathogen[ P14075] interacts with 2 human partners:{P24539;P56385}

4935 Pathogen[ POC206] interacts with 4 human partners:{P36542;P24539;P56381;P56385}

4936 [Cluster 809]GO:0051598+P biological\_process [name] meiotic recombination checkpoint [def] "A checkpoint that acts during late prophase I (pachytene) and prevents segregation of homologous chromosomes until recombination is completed, ensuring proper distribution of the genetic material to the gametes." [PMID

4937 Pathogen[ P14079] interacts with 1 human partners:{Q86X24}

4938 [Cluster 810]GO:0060999+P biological\_process [name] positive regulation of dendritic spine development [def] "Any process that increases the rate, frequency, or extent of dendritic spine development, the process whose specific outcome is the progression of the dendritic spine over time, from its formation to the mature structure." [GOC

4939 Pathogen[ P14079] interacts with 1 human partners:{O75781}

4940 Pathogen[ P03410] interacts with 1 human partners:{O75781}

4941 [Cluster 811]GO:0033382+P biological\_process [name] maintenance of granzyme B location in T cell secretory granule [def] "A process in which the protease granzyme B is maintained in a secretory granule in a T cell and prevented from moving elsewhere." [GOC

4942 Pathogen[ POC214] interacts with 1 human partners:{P10124}

4943 Pathogen[ P14079] interacts with 1 human partners:{P10124}

4944 Pathogen[ P03383] interacts with 1 human partners:{P10124}

4945 Pathogen[ P03410] interacts with 1 human partners:{P10124}

4946 Pathogen[ P14075] interacts with 1 human partners:{P10124}

4947 Pathogen[ P0C206] interacts with 1 human partners:{P10124}

4948 [Cluster 812]GO:0006072+P biological\_process [name] glycerol-3-phosphate metabolic process [def] "The chemical reactions and pathways involving glycerol-3-phosphate, a phosphoric monoester of glycerol." [GOC

4949 Pathogen[ Q2Q067] interacts with 1 human partners:{P32189}

4950 Pathogen[ P0C214] interacts with 5 human partners:{Q14410;Q14409;Q8N335;P32189;P21695}

4951 Pathogen[ P03346] interacts with 1 human partners:{P32189}

4952 Pathogen[ Q85601] interacts with 1 human partners:{P32189}

4953 Pathogen[ P14079] interacts with 4 human partners:{Q14410;P32189;Q14409;P21695}

4954 Pathogen[ P03383] interacts with 1 human partners:{P32189}

4955 Pathogen[ P03410] interacts with 4 human partners:{Q14410;Q14409;P32189;P21695}

4956 Pathogen[ P14075] interacts with 1 human partners:{P32189}

4957 Pathogen[ P0C206] interacts with 1 human partners:{P32189}

4958 [Cluster 813]GO:0001783+P biological\_process [name] B cell apoptosis [def] "The process of apoptosis in B cells." [GOC

4959 Pathogen[ Q2Q067] interacts with 1 human partners:{O43734}

4960 Pathogen[ P0C214] interacts with 1 human partners:{O43734}

4961 Pathogen[ P03346] interacts with 1 human partners:{O43734}

4962 Pathogen[ P14079] interacts with 1 human partners:{O43734}

4963 Pathogen[ P03383] interacts with 1 human partners:{O43734}

4964 Pathogen[ P03410] interacts with 1 human partners:{O43734}

4965 Pathogen[ P14075] interacts with 1 human partners:{O43734}

4966 Pathogen[ P0C206] interacts with 1 human partners:{O43734}

4967 Pathogen[ P03363] interacts with 1 human partners:{O43734}

4968 [Cluster 814]GO:0046549+P biological\_process [name] retinal cone cell development [def] "Development of a cone cell, one of the sensory cells in the eye that reacts to the presence of light. Cone cells contain the photopigment iodopsin or cyanopsin and are responsible for photopic (daylight) vision." [ISBN

4969 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NS56}

4970 Pathogen[ P0C214] interacts with 1 human partners:{Q9NS56}

4971 Pathogen[ P03346] interacts with 1 human partners:{Q9NS56}

4972 Pathogen[ Q85601] interacts with 1 human partners:{Q9NS56}

4973 Pathogen[ P14079] interacts with 2 human partners:{P56715;Q9NS56}

4974 Pathogen[ P03410] interacts with 1 human partners:{P56715}

4975 Pathogen[ P0C206] interacts with 2 human partners:{Q9NS56;P56715}

4976 Pathogen[ P03363] interacts with 1 human partners:{P56715}

4977 [Cluster 815]GO:0060872+P biological\_process [name] semicircular canal development [def] "The progression of the semicircular canal from its initial formation to the mature structure." [GOC

4978 Pathogen[ Q2Q067] interacts with 1 human partners:{P23769}

4979 Pathogen[ P0C214] interacts with 1 human partners:{P23769}

4980 Pathogen[ P03346] interacts with 1 human partners:{P23769}

4981 Pathogen[ Q85601] interacts with 1 human partners:{P23769}

4982 Pathogen[ P14079] interacts with 1 human partners:{P23769}

4983 Pathogen[ P03383] interacts with 1 human partners:{P23769}

4984 Pathogen[ P03410] interacts with 1 human partners:{P23769}

4985 Pathogen[ P14075] interacts with 1 human partners:{P23769}

4986 Pathogen[ P0C206] interacts with 1 human partners:{P23769}

4987 [Cluster 816]GO:0006051+P biological\_process [name] N-acetylmannosamine metabolic process [def] "The chemical reactions and pathways involving N-acetylmannosamine, the acetylated derivative of mannosamine, 2-amino-2-deoxymannose." [GOC

4988 Pathogen[ P14079] interacts with 1 human partners:{Q9UJ70}

4989 [Cluster 817]GO:0042573+P biological\_process [name] retinoic acid metabolic process [def] "The chemical reactions and pathways involving retinoic acid, one of the three components that makes up vitamin A." [GOC

4990 Pathogen[ P03346] interacts with 1 human partners:{P29373}

4991 Pathogen[ P0C206] interacts with 1 human partners:{P29373}

4992 Pathogen[ P03363] interacts with 1 human partners:{P29373}

4993 [Cluster 818]GO:0034214+P biological\_process [name] protein hexamerization [def] "The formation of a protein hexamer, a macromolecular structure consisting of six noncovalently associated identical or nonidentical subunits." [GOC

4994 Pathogen[ P03346] interacts with 1 human partners:{Q9UBP0}

4995 Pathogen[ Q85601] interacts with 1 human partners:{Q9UBP0}

4996 Pathogen[ P0C206] interacts with 1 human partners:{Q9UBP0}

4997 [Cluster 819]GO:2000310+P biological\_process [name] regulation of N-methyl-D-aspartate selective glutamate receptor activity [def] "Any process that modulates the frequency, rate or extent of N-methyl-D-aspartate selective glutamate receptor activity." [GOC

4998 Pathogen[ Q2Q067] interacts with 1 human partners:{P78352}

4999 Pathogen[ P0C214] interacts with 1 human partners:{P78352}

5000 Pathogen[ P03346] interacts with 1 human partners:{P78352}

5001 Pathogen[ Q85601] interacts with 1 human partners:{P78352}

5002 Pathogen[ P03383] interacts with 1 human partners:{P78352}

5003 Pathogen[ P03410] interacts with 1 human partners:{P78352}

5004 Pathogen[ P14075] interacts with 1 human partners:{P78352}

5005 Pathogen[ P0C206] interacts with 1 human partners:{P78352}

5006 Pathogen[ P03363] interacts with 1 human partners:{P78352}

5007 [Cluster 820]GO:0051533+P biological\_process [name] positive regulation of NFAT protein import into nucleus [def] "Any process that activates or increases the frequency, rate or extent of the movement of an NFAT protein from the cytoplasm to the nucleus." [GOC

5008 Pathogen[ P14079] interacts with 2 human partners:{P24588;Q9GZZ8}

5009 Pathogen[ P03410] interacts with 2 human partners:{Q9GZZ8;P24588}

5010 Pathogen[ P14075] interacts with 1 human partners:{Q9GZZ8}

5011 Pathogen[ P03363] interacts with 1 human partners:{Q8IWX8}

5012 [Cluster 821]GO:0030540+P biological\_process [name] female genitalia development [def] "The process whose specific outcome is the progression of the female genitalia over time, from formation to the mature structure." [GOC

5013 Pathogen[ P03346] interacts with 1 human partners:{Q9P2D1}

5014 Pathogen[ Q85601] interacts with 1 human partners:{Q9P2D1}

5015 Pathogen[ P14079] interacts with 1 human partners:{Q9P2D1}

5016 Pathogen[ P03410] interacts with 1 human partners:{Q9P2D1}

5017 Pathogen[ P0C206] interacts with 1 human partners:{Q9P2D1}

5018 [Cluster 822]GO:0014870+P biological\_process [name] response to muscle inactivity [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a muscle inactivity stimulus." [GOC

5019 Pathogen[ P0C214] interacts with 1 human partners:{P14618}

5020 Pathogen[ Q85601] interacts with 1 human partners:{P14618}

5021 Pathogen[ P0C206] interacts with 1 human partners:{P14618}

5022 [Cluster 823]GO:0007628+P biological\_process [name] adult walking behavior [def] "The actions or reactions of an adult relating to the progression of that organism along the ground by the process of lifting and setting down each leg." [GOC

5023 Pathogen[ P03346] interacts with 1 human partners:{Q9P2D1}

5024 Pathogen[ Q85601] interacts with 1 human partners:{Q9P2D1}

5025 Pathogen[ P14079] interacts with 4 human partners:{P20396;Q9UPW5;Q9P2D1;P10636}

5026 Pathogen[ P03410] interacts with 5 human partners:{Q9UPW5;Q9P2D1;P10636;Q9UBY8;P20396}

5027 Pathogen[ P0C206] interacts with 4 human partners:{Q9P2D1;P10636;Q9UPW5;P20396}

5028 [Cluster 824]GO:0060629+P biological\_process [name] regulation of homologous chromosome segregation [def] "Any process that modulates the rate, frequency, or extent of homologous chromosome segregation, the cell cycle process in which replicated homologous chromosomes are organized and then physically separated and apportioned to two sets during the first division of the meiotic cell cycle. Each replicated chromosome, composed of two sister chromatids, aligns at the cell equator, paired with its homologous partner\_ this pairing off, referred to as synapsis, permits genetic recombination. One homolog (both sister chromatids) of each morphologic type goes into each of the resulting chromosome sets." [GOC

5029 Pathogen[ P14079] interacts with 1 human partners:{Q86X24}

5030 [Cluster 825]GO:0006498+P biological\_process [name] N-terminal protein lipidation [def] "The covalent attachment of a lipid group to the amino terminus of a protein." [GOC

5031 Pathogen[ Q2Q067] interacts with 1 human partners:{P30419}

5032 Pathogen[ P0C214] interacts with 1 human partners:{P30419}

5033 Pathogen[ Q85601] interacts with 1 human partners:{P30419}

5034 Pathogen[ P14079] interacts with 1 human partners:{P30419}

5035 Pathogen[ P03410] interacts with 1 human partners:{P30419}

5036 Pathogen[ P0C206] interacts with 1 human partners:{P30419}

5037 [Cluster 826]GO:0035971+P biological\_process [name] peptidyl-histidine dephosphorylation [def] "The removal of phosphoric residues from peptidyl-O-phospho-L-histidine to form peptidyl-histidine." [GOC

5038 Pathogen[ P03346] interacts with 1 human partners:{Q9NRX4}

5039 Pathogen[ P14079] interacts with 1 human partners:{Q9NRX4}

5040 Pathogen[ P03410] interacts with 1 human partners:{Q9NRX4}

5041 Pathogen[ P0C206] interacts with 1 human partners:{Q9NRX4}

5042 [Cluster 827]GO:0010596+P biological\_process [name] negative regulation of endothelial cell migration [def] "Any process that decreases the rate, frequency, or extent of the orderly movement of an endothelial cell into the extracellular matrix to form an endothelium." [GOC

5043 Pathogen[ P03346] interacts with 1 human partners:{O00522}

5044 Pathogen[ P14079] interacts with 2 human partners:{Q8N300;O00522}

5045 Pathogen[ P03410] interacts with 2 human partners:{O00522;Q8N300}

5046 Pathogen[ P0C206] interacts with 2 human partners:{Q8N300;O00522}

5047 Pathogen[ P03363] interacts with 1 human partners:{O00522}

5048 [Cluster 828]GO:0035058+P biological\_process [name] nonmotile primary cilium assembly [def] "The assembly of a primary cilium which contains a variable array of axonemal microtubules but does not contain molecular motors. Nonmotile primary cilia are found on many different cell types and function as sensory organelles that concentrate and organize sensory signaling molecules." [GOC

5049 Pathogen[ P14079] interacts with 1 human partners:{Q8NFX9}

5050 Pathogen[ P03410] interacts with 1 human partners:{Q8NFJ9}

5051 Pathogen[ P0C206] interacts with 1 human partners:{Q8NFJ9}

5052 Pathogen[ P03363] interacts with 1 human partners:{Q8NFJ9}

5053 [Cluster 829]GO:0030854+P biological\_process [name] positive regulation of granulocyte differentiation [def] "Any process that activates or increases the frequency, rate or extent of granulocyte differentiation." [GOC

5054 Pathogen[ Q2Q067] interacts with 3 human partners:{Q8IZD2;Q5VTD9;Q01196}

5055 Pathogen[ P0C214] interacts with 2 human partners:{Q5VTD9;Q8IZD2}

5056 Pathogen[ P03346] interacts with 3 human partners:{Q5VTD9;Q01196;Q8IZD2}

5057 Pathogen[ Q85601] interacts with 2 human partners:{Q5VTD9;Q8IZD2}

5058 Pathogen[ P14079] interacts with 1 human partners:{Q5VTD9}

5059 Pathogen[ P03410] interacts with 1 human partners:{Q5VTD9}

5060 Pathogen[ P0C206] interacts with 2 human partners:{Q5VTD9;Q8IZD2}

5061 Pathogen[ P03363] interacts with 1 human partners:{Q5VTD9}

5062 [Cluster 830]GO:0007044+P biological\_process [name] cell-substrate junction assembly [def] "The aggregation, arrangement and bonding together of a set of components to form a junction between a cell and its substrate." [GOC

5063 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9HBL0}

5064 Pathogen[ P0C214] interacts with 1 human partners:{Q9HBL0}

5065 Pathogen[ P03346] interacts with 1 human partners:{Q9HBL0}

5066 Pathogen[ Q85601] interacts with 1 human partners:{Q9HBL0}

5067 Pathogen[ P14079] interacts with 1 human partners:{Q9HBL0}

5068 Pathogen[ P03410] interacts with 1 human partners:{Q9HBL0}

5069 Pathogen[ P0C206] interacts with 1 human partners:{Q9HBL0}

5070 Pathogen[ P03363] interacts with 1 human partners:{Q9HBL0}

5071 [Cluster 831]GO:0071763+P biological\_process [name] nuclear membrane organization [def] "A process that is carried out at the cellular level which results in the assembly, arrangement of constituent parts, or disassembly of the nuclear inner or outer membrane." [GOC

5072 Pathogen[ Q2Q067] interacts with 1 human partners:{O14656}

5073 Pathogen[ P0C214] interacts with 1 human partners:{O14656}

5074 Pathogen[ P03346] interacts with 1 human partners:{O14656}

5075 Pathogen[ Q85601] interacts with 1 human partners:{O14656}

5076 Pathogen[ P14079] interacts with 2 human partners:{O14656;Q5JTV8}

5077 Pathogen[ P03410] interacts with 2 human partners:{O14656;Q5JTV8}

5078 Pathogen[ P0C206] interacts with 1 human partners:{O14656}

5079 [Cluster 832]GO:0006430+P biological\_process [name] lysyl-tRNA aminoacylation [def] "The process of coupling lysine to lysyl-tRNA, catalyzed by lysyl-tRNA synthetase. In tRNA aminoacylation, the amino acid is first activated by linkage to AMP and then transferred to either the 2'- or the 3'-hydroxyl group of the 3'-adenosine residue of the tRNA." [GOC

5080 Pathogen[ Q2Q067] interacts with 1 human partners:{Q15046}

5081 Pathogen[ P0C214] interacts with 1 human partners:{Q15046}

5082 Pathogen[ Q85601] interacts with 1 human partners:{Q15046}

5083 Pathogen[ P14079] interacts with 1 human partners:{Q15046}

5084 Pathogen[ P03383] interacts with 1 human partners:{Q15046}

5085 Pathogen[ P03410] interacts with 1 human partners:{Q15046}

5086 Pathogen[ P14075] interacts with 1 human partners:{Q15046}

5087 Pathogen[ P0C206] interacts with 1 human partners:{Q15046}

5088 [Cluster 833]GO:0017156+P biological\_process [name] calcium ion-dependent exocytosis [def] "The release of intracellular molecules (e.g. hormones, matrix proteins) contained within a membrane-bounded vesicle by fusion of the vesicle with the plasma membrane of a cell, requiring the presence of calcium ions." [GOC

5089 Pathogen[ P14079] interacts with 2 human partners:{P16298;Q9Y6U3}

5090 Pathogen[ P03410] interacts with 2 human partners:{Q9Y6U3;Q9BRK5}

5091 [Cluster 834]GO:0060350+P biological\_process [name] endochondral bone morphogenesis [def] "The process in which bones are generated and organized as a result of the conversion of initial cartilaginous anlage into bone." [GOC

5092 Pathogen[ Q2Q067] interacts with 1 human partners:{Q86X55}

5093 Pathogen[ P0C214] interacts with 1 human partners:{Q86X55}

5094 Pathogen[ P03346] interacts with 1 human partners:{Q86X55}

5095 Pathogen[ Q85601] interacts with 1 human partners:{Q86X55}

5096 Pathogen[ P03383] interacts with 1 human partners:{Q86X55}

5097 Pathogen[ P03410] interacts with 1 human partners:{Q86X55}

5098 Pathogen[ P14075] interacts with 1 human partners:{Q86X55}

5099 Pathogen[ P0C206] interacts with 1 human partners:{Q86X55}

5100 Pathogen[ P03363] interacts with 1 human partners:{Q86X55}

5101 [Cluster 835]GO:0070669+P biological\_process [name] response to interleukin-2 [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an interleukin-2 stimulus." [GOC

5102 Pathogen[ Q2Q067] interacts with 1 human partners:{Q99966}

5103 Pathogen[ P0C214] interacts with 1 human partners:{Q99966}

5104 Pathogen[ P03346] interacts with 1 human partners:{Q99966}

5105 Pathogen[ Q85601] interacts with 1 human partners:{Q99966}

5106 Pathogen[ P14079] interacts with 1 human partners:{Q99966}

5107 Pathogen[ P03410] interacts with 1 human partners:{Q99966}

5108 Pathogen[ P0C206] interacts with 1 human partners:{Q99966}

5109 [Cluster 836]GO:0032376+P biological\_process [name] positive regulation of cholesterol transport [def] "Any process that activates or increases the frequency, rate or extent of the directed movement of cholesterol into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore." [GOC

5110 Pathogen[ Q2Q067] interacts with 1 human partners:{P55055}

5111 Pathogen[ P03346] interacts with 1 human partners:{P55055}

5112 Pathogen[ Q85601] interacts with 1 human partners:{P55055}

5113 Pathogen[ P14079] interacts with 1 human partners:{P55055}

5114 Pathogen[ P0C206] interacts with 1 human partners:{P55055}

5115 [Cluster 837]GO:0031284+P biological\_process [name] positive regulation of guanylate cyclase activity [def] "Any process that activates or increases the frequency, rate or extent of guanylate cyclase activity." [GOC

5116 Pathogen[ Q2Q067] interacts with 1 human partners:{P29474}

5117 Pathogen[ P0C214] interacts with 1 human partners:{P29474}

5118 Pathogen[ P03346] interacts with 1 human partners:{P29474}

5119 Pathogen[ Q85601] interacts with 1 human partners:{P29474}

5120 Pathogen[ P03383] interacts with 1 human partners:{P29474}

5121 Pathogen[ P03410] interacts with 1 human partners:{P29474}

5122 Pathogen[ P14075] interacts with 1 human partners:{P29474}

5123 Pathogen[ P0C206] interacts with 1 human partners:{P29474}

5124 Pathogen[ P03363] interacts with 1 human partners:{P29474}

5125 [Cluster 838]GO:0046950+P biological\_process [name] cellular ketone body metabolic process [def] "The chemical reactions and pathways involving ketone bodies, any one of the three substances

5126 Pathogen[ P03410] interacts with 1 human partners:{P55809}

5127 [Cluster 839]GO:0046887+P biological\_process [name] positive regulation of hormone secretion [def] "Any process that activates or increases the frequency, rate or extent of the regulated release of a hormone from a cell or group of cells." [GOC

5128 Pathogen[ P0C214] interacts with 1 human partners:{P16220}

5129 Pathogen[ P03346] interacts with 1 human partners:{P16220}

5130 Pathogen[ Q85601] interacts with 1 human partners:{P16220}

5131 Pathogen[ P03383] interacts with 1 human partners:{P16220}

5132 Pathogen[ P03410] interacts with 1 human partners:{P16220}

5133 Pathogen[ P14075] interacts with 1 human partners:{P16220}

5134 Pathogen[ P0C206] interacts with 1 human partners:{P16220}

5135 Pathogen[ P03363] interacts with 1 human partners:{P16220}

5136 [Cluster 840]GO:2000048+P biological\_process [name] negative regulation of cell-cell adhesion mediated by cadherin [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of cell-cell adhesion mediated by cadherin." [GOC

5137 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9H4X1}

5138 Pathogen[ P0C214] interacts with 1 human partners:{Q9H4X1}

5139 Pathogen[ P03346] interacts with 1 human partners:{Q9H4X1}

5140 Pathogen[ Q85601] interacts with 1 human partners:{Q9H4X1}

5141 Pathogen[ P03383] interacts with 1 human partners:{Q9H4X1}

5142 Pathogen[ P03410] interacts with 1 human partners:{Q9H4X1}

5143 Pathogen[ P14075] interacts with 1 human partners:{Q9H4X1}

5144 Pathogen[ P0C206] interacts with 1 human partners:{Q9H4X1}

5145 Pathogen[ P03363] interacts with 1 human partners:{Q9H4X1}

5146 [Cluster 841]GO:0048665+P biological\_process [name] neuron fate specification [def] "The process in which a cell becomes capable of differentiating autonomously into a neuron in an environment that is neutral with respect to the developmental pathway. Upon specification, the cell fate can be reversed." [GOC

5147 Pathogen[ Q2Q067] interacts with 1 human partners:{O43711}

5148 Pathogen[ P03346] interacts with 3 human partners:{O43711;O95096;Q99581}

5149 Pathogen[ Q85601] interacts with 1 human partners:{O43711}

5150 Pathogen[ P14079] interacts with 2 human partners:{Q99581;O43711}

5151 Pathogen[ P03383] interacts with 1 human partners:{O43711}

5152 Pathogen[ P03410] interacts with 1 human partners:{O43711}

5153 Pathogen[ P14075] interacts with 1 human partners:{O43711}

5154 Pathogen[ P0C206] interacts with 2 human partners:{O43711;Q99581}

5155 Pathogen[ P03363] interacts with 2 human partners:{O43711;Q99581}

5156 [Cluster 842]GO:0048730+P biological\_process [name] epidermis morphogenesis [def] "The process in which the anatomical structures of the epidermis are generated and organized. The epidermis is the outer epithelial layer of a plant or animal, it may be a single layer that produces an extracellular material (e.g. the cuticle of arthropods) or a complex stratified squamous epithelium, as in the case of many vertebrate species." [GOC

5157 Pathogen[ Q2Q067] interacts with 2 human partners:{P60953;Q9HBD4}

5158 Pathogen[ P0C214] interacts with 2 human partners:{Q9HBD4;P60953}

5159 Pathogen[ P03346] interacts with 2 human partners:{Q9HBD4;P60953}

5160 Pathogen[ Q85601] interacts with 2 human partners:{Q9HBD4;P60953}

5161 Pathogen[ P03383] interacts with 2 human partners:{Q9HBD4;P60953}

5162 Pathogen[ P03410] interacts with 2 human partners:{P60953;Q9HBD4}

5163 Pathogen[ P14075] interacts with 2 human partners:{P60953;Q9HBD4}



5164 Pathogen[ P0C206] interacts with 2 human partners:{P60953;Q9HBD4}

5165 Pathogen[ P03363] interacts with 2 human partners:{Q9HBD4;P60953}

5166 [Cluster 843]GO:0090005+P biological\_process [name] negative regulation of establishment of protein localization in plasma membrane [def] "Any process that decreases the frequency, rate or extent of the directed movement of a protein to a specific location in the plasma membrane." [GOC

5167 Pathogen[ Q2Q067] interacts with 2 human partners:{Q15172;Q7Z2X4}

5168 Pathogen[ P0C214] interacts with 2 human partners:{Q15172;Q7Z2X4}

5169 Pathogen[ P03346] interacts with 2 human partners:{Q15172;Q7Z2X4}

5170 Pathogen[ Q85601] interacts with 2 human partners:{Q15172;Q7Z2X4}

5171 Pathogen[ P14079] interacts with 2 human partners:{Q15172;Q7Z2X4}

5172 Pathogen[ P03410] interacts with 2 human partners:{Q15172;Q7Z2X4}

5173 Pathogen[ P0C206] interacts with 2 human partners:{Q7Z2X4;Q15172}

5174 Pathogen[ P03363] interacts with 1 human partners:{Q15172}

5175 [Cluster 844]GO:0060301+P biological\_process [name] positive regulation of cytokine activity [def] "Any process that increases the rate, frequency or extent of the activity of a molecule that controls the survival, growth, differentiation and effector function of tissues and cells." [GOC

5176 Pathogen[ Q2Q067] interacts with 1 human partners:{O14786}

5177 Pathogen[ P0C214] interacts with 1 human partners:{O14786}

5178 Pathogen[ P03346] interacts with 1 human partners:{O14786}

5179 Pathogen[ Q85601] interacts with 1 human partners:{O14786}

5180 Pathogen[ P03410] interacts with 1 human partners:{O14786}

5181 Pathogen[ P0C206] interacts with 1 human partners:{O14786}

5182 Pathogen[ P03363] interacts with 1 human partners:{O14786}

5183 [Cluster 845]GO:0072583+P biological\_process [name] clathrin-mediated endocytosis [def] "An endocytosis process that begins when material is taken up into clathrin-coated pits, which then pinch off to form clathrin-coated endocytic vesicles." [GOC

5184 Pathogen[ P03410] interacts with 1 human partners:{Q0JRZ9}

5185 [Cluster 846]GO:0010310+P biological\_process [name] regulation of hydrogen peroxide metabolic process [def] "Any process that modulates the frequency, rate or extent of the chemical reactions and pathways involving hydrogen peroxide." [PMID

5186 Pathogen[ Q2Q067] interacts with 1 human partners:{P63000}

5187 Pathogen[ P0C214] interacts with 1 human partners:{P63000}

5188 Pathogen[ P03346] interacts with 2 human partners:{Q86UR1;P63000}

5189 Pathogen[ Q85601] interacts with 1 human partners:{P63000}

5190 Pathogen[ P03383] interacts with 1 human partners:{P63000}

5191 Pathogen[ P03410] interacts with 2 human partners:{P63000;Q86UR1}

5192 Pathogen[ P14075] interacts with 1 human partners:{P63000}

5193 Pathogen[ P0C206] interacts with 1 human partners:{P63000}

5194 Pathogen[ P03363] interacts with 2 human partners:{Q86UR1;P63000}

5195 [Cluster 847]GO:0030819+P biological\_process [name] positive regulation of cAMP biosynthetic process [def] "Any process that activates or increases the frequency, rate or extent of the chemical reactions and pathways resulting in the formation of the nucleotide cAMP (cyclic AMP, adenosine 3',5'-cyclophosphate)." [GOC

5196 Pathogen[ Q2Q067] interacts with 1 human partners:{Q02952}

5197 Pathogen[ P03346] interacts with 1 human partners:{Q02952}

5198 Pathogen[ P14079] interacts with 5 human partners:{Q02952;Q96G30;P24588;O60895;Q8TCY5}

5199 Pathogen[ P03383] interacts with 1 human partners:{Q02952}

5200 Pathogen[ P03410] interacts with 4 human partners:{Q96G30;O60895;Q02952;P24588}

5201 Pathogen[ P14075] interacts with 1 human partners:{Q02952}

5202 Pathogen[ P0C206] interacts with 1 human partners:{Q02952}

5203 Pathogen[ P03363] interacts with 1 human partners:{Q02952}

5204 [Cluster 848]GO:0007613+P biological\_process [name] memory [def] "The activities involved in the mental information processing system that receives (registers), modifies, stores, and retrieves informational stimuli. The main stages involved in the formation and retrieval of memory are encoding (processing of received information by acquisition), storage (building a permanent record of received information as a result of consolidation) and retrieval (calling back the stored information and use it in a suitable way to execute a given task)." [GOC

5205 Pathogen[ P03346] interacts with 1 human partners:{Q96AB6}

5206 Pathogen[ P14079] interacts with 2 human partners:{Q96AB6;P16298}

5207 Pathogen[ P03410] interacts with 1 human partners:{Q96AB6}

5208 Pathogen[ P0C206] interacts with 1 human partners:{Q96AB6}

5209 Pathogen[ P03363] interacts with 1 human partners:{Q96AB6}

5210 [Cluster 849]GO:0021539+P biological\_process [name] subthalamus development [def] "The process whose specific outcome is the progression of the subthalamus over time, from its formation to the mature structure. The subthalamus is the anterior part of the diencephalon that lies between the thalamus, hypothalamus, and tegmentum of the mesencephalon, including subthalamic nucleus, zona incerta, the fields of Forel, and the nucleus of ansa lenticularis." [GO\_REF

5211 Pathogen[ P14079] interacts with 1 human partners:{O14949}

5212 Pathogen[ P03410] interacts with 1 human partners:{O14949}

5213 [Cluster 850]GO:0017055+P biological\_process [name] negative regulation of RNA polymerase II transcriptional preinitiation complex assembly [def] "Any process that

stops, prevents, or reduces the frequency, rate or extent of RNA polymerase II transcriptional preinitiation complex assembly." [GOC

5214 Pathogen[ Q2Q067] interacts with 1 human partners:{P10827}

5215 Pathogen[ P03346] interacts with 1 human partners:{P10827}

5216 Pathogen[ Q85601] interacts with 1 human partners:{P10827}

5217 Pathogen[ P14079] interacts with 1 human partners:{P10827}

5218 Pathogen[ P0C206] interacts with 1 human partners:{P10827}

5219 [Cluster 851]GO:0060546+P biological\_process [name] negative regulation of necroptosis [def] "Any process that decreases the rate frequency or extent of necroptosis. Necroptosis is a necrotic cell death process that results from the activation of endogenous cellular processes, such as signaling involving death domain receptors and Toll-like receptors." [GOC

5220 Pathogen[ P03346] interacts with 1 human partners:{Q13489}

5221 Pathogen[ P0C206] interacts with 1 human partners:{Q13489}

5222 Pathogen[ P03363] interacts with 1 human partners:{Q13489}

5223 [Cluster 852]GO:0046485+P biological\_process [name] ether lipid metabolic process [def] "The chemical reactions and pathways involving ether lipids, lipids that contain (normally) one lipid alcohol in ether linkage to one of the carbon atoms (normally C-1) of glycerol." [ISBN

5224 Pathogen[ P14079] interacts with 1 human partners:{Q8N661}

5225 Pathogen[ P03410] interacts with 1 human partners:{Q8N661}

5226 Pathogen[ P14075] interacts with 1 human partners:{Q8N661}

5227 Pathogen[ P0C206] interacts with 1 human partners:{Q8N661}

5228 [Cluster 853]GO:0050877+P biological\_process [name] neurological system process [def] "A organ system process carried out by any of the organs or tissues of neurological system." [GOC

5229 Pathogen[ P03346] interacts with 1 human partners:{Q15270}

5230 Pathogen[ P0C206] interacts with 1 human partners:{Q15270}

5231 Pathogen[ P03363] interacts with 1 human partners:{Q15270}

5232 [Cluster 854]GO:0042816+P biological\_process [name] vitamin B6 metabolic process [def] "The chemical reactions and pathways involving any of the vitamin B6 compounds

5233 Pathogen[ P14079] interacts with 1 human partners:{Q9NVS9}

5234 Pathogen[ P03410] interacts with 1 human partners:{Q9NVS9}

5235 Pathogen[ P14075] interacts with 1 human partners:{Q9NVS9}

5236 [Cluster 855]GO:0006744+P biological\_process [name] ubiquinone biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of ubiquinone, a lipid-soluble electron-transporting coenzyme." [GOC

5237 Pathogen[ Q2Q067] interacts with 1 human partners:{075208}

5238 Pathogen[ P0C214] interacts with 3 human partners:{075208;Q99807;Q5HYK3}

5239 Pathogen[ P03346] interacts with 2 human partners:{075208;Q5HYK3}

5240 Pathogen[ P14079] interacts with 5 human partners:{Q99807;Q86YH6;075208;Q9Y3A0;Q5HYK3}

5241 Pathogen[ P03383] interacts with 1 human partners:{075208}

5242 Pathogen[ P03410] interacts with 5 human partners:{Q9Y3A0;Q99807;Q86YH6;Q5HYK3;075208}

5243 Pathogen[ P14075] interacts with 2 human partners:{Q5HYK3;075208}

5244 Pathogen[ P0C206] interacts with 4 human partners:{Q99807;Q9Y3A0;075208;Q5HYK3}

5245 Pathogen[ P03363] interacts with 1 human partners:{075208}

5246 [Cluster 856]GO:0050862+P biological\_process [name] positive regulation of T cell receptor signaling pathway [def] "Any process that activates or increases the frequency, rate or extent of signaling pathways initiated by the cross-linking of an antigen receptor on a T cell." [GOC

5247 Pathogen[ Q2Q067] interacts with 1 human partners:{A2RU30}

5248 Pathogen[ P0C214] interacts with 1 human partners:{A2RU30}

5249 Pathogen[ P03346] interacts with 1 human partners:{A2RU30}

5250 Pathogen[ P14079] interacts with 2 human partners:{A2RU30;Q6PIZ9}

5251 Pathogen[ P03383] interacts with 1 human partners:{A2RU30}

5252 Pathogen[ P03410] interacts with 2 human partners:{Q6PIZ9;A2RU30}

5253 Pathogen[ P14075] interacts with 1 human partners:{A2RU30}

5254 Pathogen[ P0C206] interacts with 1 human partners:{A2RU30}

5255 Pathogen[ P03363] interacts with 1 human partners:{A2RU30}

5256 [Cluster 857]GO:0072044+P biological\_process [name] collecting duct development [def] "The process whose specific outcome is the progression of a collecting duct over time, from its formation to the mature structure. The collecting duct responds to vasopressin and aldosterone to regulate water, electrolyte and acid-base balance. It is the final common path through which urine flows before entering the ureter and then emptying into the bladder." [GOC

5257 Pathogen[ P03346] interacts with 1 human partners:{Q92481}

5258 [Cluster 858]GO:0072643+P biological\_process [name] interferon-gamma secretion [def] "The regulated release of interferon-gamma from a cell or group of cells." [GOC

5259 Pathogen[ Q2Q067] interacts with 1 human partners:{P14373}

5260 Pathogen[ P0C214] interacts with 1 human partners:{P14373}

5261 Pathogen[ P03346] interacts with 1 human partners:{P14373}

5262 Pathogen[ Q85601] interacts with 1 human partners:{P14373}

5263 Pathogen[ P14079] interacts with 1 human partners:{P14373}

5264 Pathogen[ P0C206] interacts with 1 human partners:{P14373}

5265 Pathogen[ P03363] interacts with 1 human partners:{P14373}

5266 [Cluster 859]GO:0006563+P biological\_process [name] L-serine metabolic process  
[def] "The chemical reactions and pathways involving L-serine, the L-enantiomer of serine, i.e. (2S)-2-amino-3-hydroxypropanoic acid." [CHEBI

5267 Pathogen[ Q2Q067] interacts with 1 human partners:{P34896}

5268 Pathogen[ P0C214] interacts with 3 human partners:{P34897;P34896;P35520}

5269 Pathogen[ Q85601] interacts with 1 human partners:{P34896}

5270 Pathogen[ P14079] interacts with 2 human partners:{P34897;P34896}

5271 Pathogen[ P03383] interacts with 1 human partners:{P34896}

5272 Pathogen[ P03410] interacts with 2 human partners:{P34897;P34896}

5273 Pathogen[ P14075] interacts with 1 human partners:{P34896}

5274 Pathogen[ P0C206] interacts with 2 human partners:{P34897;P34896}

5275 [Cluster 860]GO:0021532+P biological\_process [name] neural tube patterning [def]  
"The regionalization process that regulates the coordinated growth that establishes the non-random spatial arrangement of the neural tube." [GO\_REF

5276 Pathogen[ P03346] interacts with 1 human partners:{Q68CZ1}

5277 Pathogen[ P14079] interacts with 1 human partners:{Q68CZ1}

5278 Pathogen[ P03410] interacts with 1 human partners:{Q68CZ1}

5279 [Cluster 861]GO:0023051+P biological\_process [name] regulation of signaling [def]  
"Any process that modulates the frequency, rate or extent of a signaling process." [GOC

5280 Pathogen[ Q2Q067] interacts with 1 human partners:{P22681}

5281 Pathogen[ P0C214] interacts with 1 human partners:{P22681}

5282 Pathogen[ P03346] interacts with 1 human partners:{P22681}

5283 Pathogen[ Q85601] interacts with 1 human partners:{P22681}

5284 Pathogen[ P0C206] interacts with 1 human partners:{P22681}

5285 Pathogen[ P03363] interacts with 1 human partners:{P22681}

5286 [Cluster 862]GO:2000171+P biological\_process [name] negative regulation of dendrite development [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of dendrite development." [GOC

5287 Pathogen[ P03346] interacts with 1 human partners:{Q9H165}

5288 Pathogen[ P0C206] interacts with 1 human partners:{Q9H165}

5289 [Cluster 863]GO:0030573+P biological\_process [name] bile acid catabolic process  
[def] "The chemical reactions and pathways resulting in the breakdown of bile acids, any of a group of steroid carboxylic acids occurring in bile." [GOC

5290 Pathogen[ P0C214] interacts with 1 human partners:{Q06520}

5291 Pathogen[ P03346] interacts with 1 human partners:{Q06520}

5292 Pathogen[ P03363] interacts with 1 human partners:{Q06520}

5293 [Cluster 864]GO:0019346+P biological\_process [name] transsulfuration [def] "The interconversion of homocysteine and cysteine via cystathionine. In contrast with enteric bacteria and mammals, *Saccharomyces cerevisiae* has two transsulfuration pathways employing two separate sets of enzymes." [MetaCyc

5294 Pathogen[ Q2Q067] interacts with 1 human partners:{P32929}

5295 Pathogen[ P0C214] interacts with 2 human partners:{P32929;P35520}

5296 Pathogen[ P03346] interacts with 1 human partners:{P32929}

5297 Pathogen[ Q85601] interacts with 1 human partners:{P32929}

5298 Pathogen[ P14079] interacts with 1 human partners:{P32929}

5299 Pathogen[ P03410] interacts with 1 human partners:{P32929}

5300 Pathogen[ P0C206] interacts with 1 human partners:{P32929}

5301 [Cluster 865]GO:0090298+P biological\_process [name] negative regulation of mitochondrial DNA replication [def] "Any process that decreases the rate, frequency or extent of the process in which new strands of DNA are synthesized in the mitochondrion." [GOC

5302 Pathogen[ Q2Q067] interacts with 1 human partners:{Q7Z2X4}

5303 Pathogen[ P0C214] interacts with 1 human partners:{Q7Z2X4}

5304 Pathogen[ P03346] interacts with 1 human partners:{Q7Z2X4}

5305 Pathogen[ Q85601] interacts with 1 human partners:{Q7Z2X4}

5306 Pathogen[ P14079] interacts with 1 human partners:{Q7Z2X4}

5307 Pathogen[ P03410] interacts with 1 human partners:{Q7Z2X4}

5308 Pathogen[ P0C206] interacts with 1 human partners:{Q7Z2X4}

5309 [Cluster 866]GO:0035574+P biological\_process [name] histone H4-K20 demethylation  
[def] "The modification of histone H4 by the removal of a methyl group from lysine at position 20 of the histone." [GOC

5310 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UPP1}

5311 Pathogen[ P0C214] interacts with 1 human partners:{Q9UPP1}

5312 Pathogen[ P03346] interacts with 1 human partners:{Q9UPP1}

5313 Pathogen[ Q85601] interacts with 1 human partners:{Q9UPP1}

5314 Pathogen[ P14079] interacts with 1 human partners:{Q9UPP1}

5315 Pathogen[ P03383] interacts with 1 human partners:{Q9UPP1}

5316 Pathogen[ P03410] interacts with 1 human partners:{Q9UPP1}

5317 Pathogen[ P14075] interacts with 1 human partners:{Q9UPP1}

5318 Pathogen[ P0C206] interacts with 1 human partners:{Q9UPP1}

5319 [Cluster 867]GO:0031999+P biological\_process [name] negative regulation of fatty acid beta-oxidation [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of fatty acid beta-oxidation." [GOC

5320 Pathogen[ Q2Q067] interacts with 1 human partners:{P31749}

5321 Pathogen[ P0C214] interacts with 1 human partners:{P31749}

5322 Pathogen[ P03346] interacts with 1 human partners:{P31749}

5323 Pathogen[ Q85601] interacts with 1 human partners:{P31749}

5324 Pathogen[ P03383] interacts with 1 human partners:{P31749}

5325 Pathogen[ P03410] interacts with 1 human partners:{P31749}

5326 Pathogen[ P14075] interacts with 1 human partners:{P31749}

5327 Pathogen[ P0C206] interacts with 1 human partners:{P31749}

5328 Pathogen[ P03363] interacts with 1 human partners:{P31749}

5329 [Cluster 868]GO:0015793+P biological\_process [name] glycerol transport [def] "The directed movement of glycerol into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore. Glycerol is 1,2,3-propanetriol, a sweet, hygroscopic, viscous liquid, widely distributed in nature as a constituent of many lipids." [GOC

5330 Pathogen[ P14079] interacts with 1 human partners:{Q8NBQ7}

5331 [Cluster 869]GO:0035609+P biological\_process [name] C-terminal protein deglutamylation [def] "The removal of a C-terminal, gene-encoded glutamate residue from a protein." [GOC

5332 Pathogen[ P14079] interacts with 2 human partners:{Q96MI9;Q9UPW5}

5333 Pathogen[ P03410] interacts with 1 human partners:{Q9UPW5}

5334 Pathogen[ P0C206] interacts with 1 human partners:{Q9UPW5}

5335 [Cluster 870]GO:0071600+P biological\_process [name] otic vesicle morphogenesis [def] "The process in which the anatomical structures of the otic vesicle are generated and organized. The otic vesicle is a transient embryonic structure formed during development of the vertebrate inner ear." [GOC

5336 Pathogen[ Q2Q067] interacts with 1 human partners:{Q99502}

5337 Pathogen[ P0C214] interacts with 1 human partners:{Q99502}

5338 Pathogen[ P03346] interacts with 1 human partners:{Q99502}

5339 Pathogen[ Q85601] interacts with 1 human partners:{Q99502}

5340 Pathogen[ P14079] interacts with 1 human partners:{Q99502}

5341 Pathogen[ P03410] interacts with 1 human partners:{Q99502}

5342 Pathogen[ P14075] interacts with 1 human partners:{Q99502}

5343 Pathogen[ P0C206] interacts with 1 human partners:{Q99502}

5344 [Cluster 871]GO:0033384+P biological\_process [name] geranyl diphosphate biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of geranyl diphosphate." [GOC

5345 Pathogen[ Q2Q067] interacts with 1 human partners:{P14324}

5346 Pathogen[ P0C214] interacts with 1 human partners:{P14324}

5347 Pathogen[ P03346] interacts with 1 human partners:{P14324}

5348 Pathogen[ Q85601] interacts with 1 human partners:{P14324}

5349 Pathogen[ P14079] interacts with 1 human partners:{P14324}

5350 Pathogen[ P03383] interacts with 1 human partners:{P14324}

5351 Pathogen[ P03410] interacts with 1 human partners:{P14324}

5352 Pathogen[ P14075] interacts with 1 human partners:{P14324}

5353 Pathogen[ P0C206] interacts with 1 human partners:{P14324}

5354 [Cluster 872]GO:0051594+P biological\_process [name] detection of glucose [def] "The series of events in which a glucose stimulus is received by a cell and converted into a molecular signal." [GOC

5355 Pathogen[ P03346] interacts with 1 human partners:{P78426}

5356 [Cluster 873]GO:0070899+P biological\_process [name] mitochondrial tRNA wobble uridine modification [def] "The process in which a uridine in position 34 of a mitochondrial tRNA is post-transcriptionally modified." [GOC

5357 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9Y2Z2}

5358 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y2Z2}

5359 Pathogen[ P03346] interacts with 1 human partners:{Q9Y2Z2}

5360 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y2Z2}

5361 Pathogen[ P14079] interacts with 1 human partners:{Q9Y2Z2}

5362 Pathogen[ P03383] interacts with 1 human partners:{Q9Y2Z2}

5363 Pathogen[ P03410] interacts with 1 human partners:{Q9Y2Z2}

5364 Pathogen[ P14075] interacts with 1 human partners:{Q9Y2Z2}

5365 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y2Z2}

5366 [Cluster 874]GO:0006584+P biological\_process [name] catecholamine metabolic process [def] "The chemical reactions and pathways involving any of a group of physiologically important biogenic amines that possess a catechol (3,4-dihydroxyphenyl) nucleus and are derivatives of 3,4-dihydroxyphenylethylamine." [GOC

5367 Pathogen[ P03346] interacts with 1 human partners:{P58546}

5368 [Cluster 875]GO:0007538+P biological\_process [name] primary sex determination [def] "The sex determination process that results in the initial specification of sexual status of an individual organism." [GOC

5369 Pathogen[ P03346] interacts with 1 human partners:{Q13285}

5370 [Cluster 876]GO:0051348+P biological\_process [name] negative regulation of transferase activity [def] "Any process that stops or reduces the rate of transferase activity, the catalysis of the transfer of a group, e.g. a methyl group, glycosyl group, acyl group, phosphorus-containing, or other groups, from a donor compound to an acceptor." [GOC

5371 Pathogen[ P03410] interacts with 1 human partners:{Q9UBY8}

5372 [Cluster 877]GO:0061333+P biological\_process [name] renal tubule morphogenesis [def] "The process in which the renal tubule is generated by specification of cell fate,

through the maintenance of cell polarity, regulated cell proliferation and morphogenetic cell rearrangements, shape changes and growth. A renal tubule is a tube that filters, re-absorbs and secretes substances to rid an organism of waste and to play a role in fluid homeostasis." [GOC

5373 Pathogen[ P14079] interacts with 1 human partners:{Q06413}

5374 [Cluster 878]GO:0042942+P biological\_process [name] D-serine transport [def] "The directed movement of D-serine, the D-enantiomer of 2-amino-3-hydroxypropanoic acid, into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore." [GOC

5375 Pathogen[ P03346] interacts with 1 human partners:{000221}

5376 Pathogen[ P14079] interacts with 1 human partners:{000221}

5377 Pathogen[ P03410] interacts with 1 human partners:{000221}

5378 Pathogen[ P0C206] interacts with 1 human partners:{000221}

5379 Pathogen[ P03363] interacts with 1 human partners:{000221}

5380 [Cluster 879]GO:0034498+P biological\_process [name] early endosome to Golgi transport [def] "The directed movement of substances from early endosomes to the Golgi." [GOC

5381 Pathogen[ P0C214] interacts with 1 human partners:{P49257}

5382 Pathogen[ P03346] interacts with 4 human partners:{Q13596;P49257;Q9Y5X2;Q9BVK6}

5383 Pathogen[ Q85601] interacts with 2 human partners:{Q13596;P49257}

5384 Pathogen[ P14079] interacts with 5 human partners:{P49257;Q9BVK6;Q9Y5X2;Q13596;O15260}

5385 Pathogen[ P03410] interacts with 5 human partners:{P49257;Q13596;Q9BVK6;O15260;Q9Y5X2}

5386 Pathogen[ P0C206] interacts with 4 human partners:{Q9BVK6;Q13596;P49257;O15260}

5387 Pathogen[ P03363] interacts with 1 human partners:{Q13596}

5388 [Cluster 880]GO:0006880+P biological\_process [name] intracellular sequestering of iron ion [def] "The process of binding or confining iron ions in an intracellular area such that they are separated from other components of a biological system." [GOC

5389 Pathogen[ P0C214] interacts with 1 human partners:{P02794}

5390 Pathogen[ P03346] interacts with 1 human partners:{P02794}

5391 Pathogen[ Q85601] interacts with 1 human partners:{P02794}

5392 Pathogen[ P14079] interacts with 1 human partners:{P02794}

5393 Pathogen[ P03383] interacts with 1 human partners:{P02794}

5394 Pathogen[ P03410] interacts with 1 human partners:{P02794}

5395 Pathogen[ P14075] interacts with 1 human partners:{P02794}

5396 Pathogen[ P0C206] interacts with 1 human partners:{P02794}

5397 Pathogen[ P03363] interacts with 1 human partners:{P02794}

5398 [Cluster 881]GO:0051304+P biological\_process [name] chromosome separation [def] "The cell cycle process in which paired chromosomes are detached from each other. Chromosome separation begins with the release of cohesin complexes from chromosomes in budding yeast, this includes the cleavage of cohesin complexes along the chromosome arms, followed by the separation of the centromeric regions. Chromosome separation also includes formation of chromatid axes mediated by condensins, and ends with untangling of inter-sister catenation catalyzed by topoisomerase II (topo II)." [GOC

5399 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9H4L7}

5400 Pathogen[ P0C214] interacts with 1 human partners:{Q9H4L7}

5401 Pathogen[ P03346] interacts with 1 human partners:{Q9H4L7}

5402 Pathogen[ Q85601] interacts with 1 human partners:{Q9H4L7}

5403 Pathogen[ P14079] interacts with 1 human partners:{Q9H4L7}

5404 Pathogen[ P03410] interacts with 1 human partners:{Q9H4L7}

5405 Pathogen[ P0C206] interacts with 1 human partners:{Q9H4L7}

5406 Pathogen[ P03363] interacts with 1 human partners:{Q9H4L7}

5407 [Cluster 882]GO:0003012+P biological\_process [name] muscle system process [def] "A organ system process carried out at the level of a muscle. Muscle tissue is composed of contractile cells or fibers." [GOC

5408 Pathogen[ P14079] interacts with 1 human partners:{O43819}

5409 Pathogen[ P03410] interacts with 1 human partners:{O43819}

5410 [Cluster 883]GO:0010835+P biological\_process [name] regulation of protein ADP-ribosylation [def] "Any process that modulates the frequency, rate or extent of protein ADP-ribosylation. Protein ADP-ribosylation is the transfer, from NAD, of ADP-ribose to protein amino acids." [GOC

5411 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9H2P0}

5412 Pathogen[ P0C214] interacts with 1 human partners:{Q9H2P0}

5413 Pathogen[ P03346] interacts with 1 human partners:{Q9H2P0}

5414 Pathogen[ Q85601] interacts with 1 human partners:{Q9H2P0}

5415 Pathogen[ P14079] interacts with 1 human partners:{Q9H2P0}

5416 Pathogen[ P0C206] interacts with 1 human partners:{Q9H2P0}

5417 Pathogen[ P03363] interacts with 1 human partners:{Q9H2P0}

5418 [Cluster 884]GO:0030510+P biological\_process [name] regulation of BMP signaling pathway [def] "Any process that modulates the frequency, rate or extent of the activity of any BMP receptor signaling pathway." [GOC

5419 Pathogen[ P0C214] interacts with 1 human partners:{P98170}

5420 Pathogen[ P03346] interacts with 3 human partners:{P31271;P98170;Q92481}

5421 Pathogen[ Q85601] interacts with 2 human partners:{P98170;P31271}

5422 Pathogen[ P14079] interacts with 1 human partners:{P31271}

5423 Pathogen[ P0C206] interacts with 2 human partners:{P98170;P31271}

5424 Pathogen[ P03363] interacts with 2 human partners:{P31271;P98170}

5425 [Cluster 885]GO:0048841+P biological\_process [name] regulation of axon extension involved in axon guidance [def] "Any process that modulates the frequency, rate or extent of axon extension involved in axon guidance." [GOC

5426 Pathogen[ Q2Q067] interacts with 1 human partners:{O14786}

5427 Pathogen[ P0C214] interacts with 1 human partners:{O14786}

5428 Pathogen[ P03346] interacts with 1 human partners:{O14786}

5429 Pathogen[ Q85601] interacts with 1 human partners:{O14786}

5430 Pathogen[ P03410] interacts with 1 human partners:{O14786}

5431 Pathogen[ P0C206] interacts with 1 human partners:{O14786}

5432 Pathogen[ P03363] interacts with 1 human partners:{O14786}

5433 [Cluster 886]GO:0071641+P biological\_process [name] negative regulation of macrophage inflammatory protein 1 alpha production [def] "Any process that stops, prevents, or reduces the frequency, rate, or extent of production of macrophage inflammatory protein 1 alpha." [GOC

5434 Pathogen[ P14079] interacts with 1 human partners:{O15553}

5435 [Cluster 887]GO:0048340+P biological\_process [name] paraxial mesoderm morphogenesis [def] "The process in which the anatomical structures of the paraxial mesoderm are generated and organized." [GOC

5436 Pathogen[ Q2Q067] interacts with 2 human partners:{P84022;Q15796}

5437 Pathogen[ P0C214] interacts with 2 human partners:{P84022;Q15796}

5438 Pathogen[ P03346] interacts with 2 human partners:{Q15796;P84022}

5439 Pathogen[ Q85601] interacts with 2 human partners:{P84022;Q15796}

5440 Pathogen[ P03383] interacts with 2 human partners:{P84022;Q15796}

5441 Pathogen[ P03410] interacts with 2 human partners:{P84022;Q15796}

5442 Pathogen[ P14075] interacts with 2 human partners:{Q15796;P84022}

5443 Pathogen[ P0C206] interacts with 2 human partners:{P84022;Q15796}

5444 Pathogen[ P03363] interacts with 2 human partners:{Q15796;P84022}

5445 [Cluster 888]GO:0048562+P biological\_process [name] embryonic organ morphogenesis [def] "Morphogenesis, during the embryonic phase, of a tissue or tissues that work together to perform a specific function or functions. Morphogenesis is the process in which anatomical structures are generated and organized. Organs are commonly observed as visibly distinct structures, but may also exist as loosely associated clusters of cells that work together to perform a specific function or functions." [GOC

5446 Pathogen[ Q2Q067] interacts with 3 human partners:{Q13562;P09017;Q9HBD4}

5447 Pathogen[ P0C214] interacts with 1 human partners:{Q9HBD4}

5448 Pathogen[ P03346] interacts with 3 human partners:{Q9HBD4;P09017;Q13562}

5449 Pathogen[ Q85601] interacts with 2 human partners:{Q13562;Q9HBD4}

5450 Pathogen[ P03383] interacts with 1 human partners:{Q9HBD4}

5451 Pathogen[ P03410] interacts with 1 human partners:{Q9HBD4}

5452 Pathogen[ P14075] interacts with 1 human partners:{Q9HBD4}

5453 Pathogen[ P0C206] interacts with 2 human partners:{Q13562;Q9HBD4}

5454 Pathogen[ P03363] interacts with 2 human partners:{Q9HBD4;P09017}

5455 [Cluster 889]GO:0021536+P biological\_process [name] diencephalon development [def] "The process whose specific outcome is the progression of the diencephalon over time, from its formation to the mature structure. The diencephalon is the paired caudal parts of the prosencephalon from which the thalamus, hypothalamus, epithalamus and subthalamus are derived\_ these regions regulate autonomic, visceral and endocrine function, and process information directed to the cerebral cortex." [GO\_REF

5456 Pathogen[ P03346] interacts with 1 human partners:{O95343}

5457 Pathogen[ P03363] interacts with 1 human partners:{O95343}

5458 [Cluster 890]GO:0071320+P biological\_process [name] cellular response to cAMP [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a cAMP (cyclic AMP, adenosine 3',5'-cyclophosphate) stimulus." [GOC

5459 Pathogen[ Q2Q067] interacts with 1 human partners:{P15976}

5460 Pathogen[ P0C214] interacts with 1 human partners:{Q16613}

5461 Pathogen[ P03346] interacts with 1 human partners:{P15976}

5462 Pathogen[ Q85601] interacts with 2 human partners:{P15976;Q16613}

5463 Pathogen[ P14079] interacts with 2 human partners:{P15976;Q16613}

5464 Pathogen[ P03383] interacts with 1 human partners:{Q16613}

5465 Pathogen[ P03410] interacts with 2 human partners:{Q16613;P15976}

5466 Pathogen[ P14075] interacts with 1 human partners:{Q16613}

5467 Pathogen[ P0C206] interacts with 2 human partners:{P15976;Q16613}

5468 [Cluster 891]GO:0001909+P biological\_process [name] leukocyte mediated cytotoxicity [def] "The directed killing of a target cell by a leukocyte." [GO\_REF

5469 Pathogen[ Q2Q067] interacts with 1 human partners:{Q15833}

5470 Pathogen[ P0C214] interacts with 1 human partners:{Q15833}

5471 Pathogen[ P03346] interacts with 1 human partners:{Q15833}

5472 Pathogen[ Q85601] interacts with 1 human partners:{Q15833}

5473 Pathogen[ P14079] interacts with 1 human partners:{Q15833}

5474 Pathogen[ P03410] interacts with 1 human partners:{Q15833}

5475 Pathogen[ P0C206] interacts with 1 human partners:{Q15833}

5476 Pathogen[ P03363] interacts with 1 human partners:{Q15833}

5477 [Cluster 892]GO:0035239+P biological\_process [name] tube morphogenesis [def] "The process in which the anatomical structures of a tube are generated and organized.

Epithelial and endothelial tubes transport gases, liquids and cells from one site to another and form the basic structure of many organs and tissues, with tube shape and organization varying from the single-celled excretory organ in *Caenorhabditis elegans* to the branching trees of the mammalian kidney and insect tracheal system." [GOC

5478 Pathogen[ P03346] interacts with 1 human partners:{P52951}

5479 Pathogen[ P03363] interacts with 1 human partners:{P52951}

5480 [Cluster 893]GO:0002238+P biological\_process [name] response to molecule of fungal origin [def] "Any process that results in a change in state or activity of an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a stimulus by molecules of fungal origin such as chito-octamer oligosaccharide." [GOC

5481 Pathogen[ P14079] interacts with 1 human partners:{Q99836}

5482 [Cluster 894]GO:0051882+P biological\_process [name] mitochondrial depolarization [def] "The process in which the membrane potential of the mitochondria changes in the depolarizing direction from the resting potential, from negative to positive." [Wikipedia

5483 Pathogen[ P0C214] interacts with 1 human partners:{Q96NN9}

5484 [Cluster 895]GO:0046135+P biological\_process [name] pyrimidine nucleoside catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of one of a family of organic molecules consisting of a pyrimidine base covalently bonded to a sugar ribose (a ribonucleoside) or deoxyribose (a deoxyribonucleoside)." [GOC

5485 Pathogen[ P0C214] interacts with 4 human partners:{O95045;Q8TCD5;Q16831;Q9H0P0}

5486 Pathogen[ Q85601] interacts with 2 human partners:{O95045;Q9H0P0}

5487 Pathogen[ P14079] interacts with 5 human partners:{Q9H0P0;Q8TCD5;Q16831;O95045;Q9BXI3}

5488 Pathogen[ P03410] interacts with 5 human partners:{O95045;Q16831;Q9BXI3;Q8TCD5;Q9H0P0}

5489 Pathogen[ P14075] interacts with 1 human partners:{O95045}

5490 Pathogen[ P0C206] interacts with 4 human partners:{Q16831;O95045;Q8TCD5;Q9H0P0}

5491 [Cluster 896]GO:0061110+P biological\_process [name] dense core granule biogenesis [def] "A cellular process that results in the biosynthesis of constituent macromolecules, assembly, and arrangement of constituent parts of a dense core granule. Includes biosynthesis of constituent macromolecules, and those macromolecular modifications that are involved in synthesis or assembly of the dense core granule." [GOC

5492 Pathogen[ P0C214] interacts with 1 human partners:{P07093}

5493 Pathogen[ Q85601] interacts with 1 human partners:{P07093}

5494 [Cluster 897]GO:0043030+P biological\_process [name] regulation of macrophage activation [def] "Any process that modulates the frequency or rate of macrophage activation." [GOC

5495 Pathogen[ P03346] interacts with 1 human partners:{P35398}

5496 Pathogen[ P14079] interacts with 1 human partners:{P35398}

5497 Pathogen[ P0C206] interacts with 1 human partners:{P35398}

5498 Pathogen[ P03363] interacts with 1 human partners:{P35398}

5499 [Cluster 898]GO:0044206+P biological\_process [name] UMP salvage [def] "Any process which produces UMP, uridine monophosphate, from derivatives of it (e.g. cytidine, uridine, cytosine) without de novo synthesis." [GOC

5500 Pathogen[ P0C214] interacts with 3 human partners:{O95045;Q16831;Q9NWZ5}

5501 Pathogen[ P03346] interacts with 1 human partners:{Q9NWZ5}

5502 Pathogen[ Q85601] interacts with 1 human partners:{O95045}

5503 Pathogen[ P14079] interacts with 3 human partners:{Q16831;Q9NWZ5;O95045}

5504 Pathogen[ P03383] interacts with 1 human partners:{Q9NWZ5}

5505 Pathogen[ P03410] interacts with 3 human partners:{O95045;Q16831;Q9NWZ5}

5506 Pathogen[ P14075] interacts with 2 human partners:{Q9NWZ5;O95045}

5507 Pathogen[ P0C206] interacts with 3 human partners:{Q16831;Q9NWZ5;O95045}

5508 Pathogen[ P03363] interacts with 1 human partners:{Q9NWZ5}

5509 [Cluster 899]GO:2000253+P biological\_process [name] positive regulation of feeding behavior [def] "Any process that activates or increases the frequency, rate or extent of feeding behavior." [GOC

5510 Pathogen[ P0C214] interacts with 1 human partners:{Q9BQI5}

5511 Pathogen[ P03346] interacts with 1 human partners:{Q9BQI5}

5512 Pathogen[ P14079] interacts with 1 human partners:{Q9BQI5}

5513 Pathogen[ P03383] interacts with 1 human partners:{Q9BQI5}

5514 Pathogen[ P03410] interacts with 1 human partners:{Q9BQI5}

5515 Pathogen[ P14075] interacts with 1 human partners:{Q9BQI5}

5516 Pathogen[ P0C206] interacts with 1 human partners:{Q9BQI5}

5517 Pathogen[ P03363] interacts with 1 human partners:{Q9BQI5}

5518 [Cluster 900]GO:0006164+P biological\_process [name] purine nucleotide biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of a purine nucleotide, a compound consisting of nucleoside (a purine base linked to a deoxyribose or ribose sugar) esterified with a phosphate group at either the 3' or 5'-hydroxyl group of the sugar." [GOC

5519 Pathogen[ P0C214] interacts with 4 human partners:{P29728;P31939;P11586;P30566}

5520 Pathogen[ P14079] interacts with 5 human partners:{P29728;P22234;P31939;P49915;O15067}

5521 Pathogen[ P03410] interacts with 6 human partners:{P49915;P29728;P22234;P30566;O15067;P31939}

5522 Pathogen[ P0C206] interacts with 2 human partners:{P29728;P31939}

5523 [Cluster 901]GO:0003331+P biological\_process [name] positive regulation of extracellular matrix constituent secretion [def] "Any process that increases the rate, frequency, or extent of the controlled release of molecules that form the extracellular matrix, including carbohydrates and glycoproteins by a cell or a group of cells." [GOC

5524 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9H4X1}

5525 Pathogen[ P0C214] interacts with 1 human partners:{Q9H4X1}

5526 Pathogen[ P03346] interacts with 1 human partners:{Q9H4X1}

5527 Pathogen[ Q85601] interacts with 1 human partners:{Q9H4X1}

5528 Pathogen[ P03383] interacts with 1 human partners:{Q9H4X1}

5529 Pathogen[ P03410] interacts with 1 human partners:{Q9H4X1}

5530 Pathogen[ P14075] interacts with 1 human partners:{Q9H4X1}

5531 Pathogen[ P0C206] interacts with 1 human partners:{Q9H4X1}

5532 Pathogen[ P03363] interacts with 1 human partners:{Q9H4X1}

5533 [Cluster 902]GO:0045910+P biological\_process [name] negative regulation of DNA recombination [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of DNA recombination." [GOC

5534 Pathogen[ P0C214] interacts with 1 human partners:{P20585}

5535 Pathogen[ P03346] interacts with 2 human partners:{Q9NS91;P20585}

5536 Pathogen[ Q85601] interacts with 2 human partners:{P20585;Q9NS91}

5537 Pathogen[ P14079] interacts with 2 human partners:{P20585;P52701}

5538 Pathogen[ P03410] interacts with 2 human partners:{P20585;P52701}

5539 Pathogen[ P0C206] interacts with 3 human partners:{P52701;Q9NS91;P20585}

5540 Pathogen[ P03363] interacts with 2 human partners:{P20585;Q9NS91}

5541 [Cluster 903]GO:2001275+P biological\_process [name] positive regulation of glucose import in response to insulin stimulus [def] "Any process that activates or increases the frequency, rate or extent of glucose import in response to insulin stimulus." [GOC

5542 Pathogen[ P14079] interacts with 1 human partners:{P31751}

5543 [Cluster 904]GO:0097167+P biological\_process [name] circadian regulation of translation [def] "Any process that modulates the frequency, rate or extent of mRNA translation with a regularity of approximately 24 hours." [GOC

5544 Pathogen[ P03346] interacts with 1 human partners:{Q9BWF3}

5545 Pathogen[ P03363] interacts with 1 human partners:{Q9BWF3}

5546 [Cluster 905]GO:0071548+P biological\_process [name] response to dexamethasone stimulus [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a dexamethasone stimulus." [GOC

5547 Pathogen[ Q2Q067] interacts with 1 human partners:{P27986}

5548 Pathogen[ P0C214] interacts with 1 human partners:{P27986}

5549 Pathogen[ P03346] interacts with 1 human partners:{P27986}

5550 Pathogen[ Q85601] interacts with 1 human partners:{P27986}

5551 Pathogen[ P03383] interacts with 1 human partners:{P27986}

5552 Pathogen[ P03410] interacts with 1 human partners:{P27986}

5553 Pathogen[ P14075] interacts with 1 human partners:{P27986}

5554 Pathogen[ P0C206] interacts with 1 human partners:{P27986}

5555 Pathogen[ P03363] interacts with 1 human partners:{P27986}

5556 [Cluster 906]GO:0030953+P biological\_process [name] astral microtubule organization [def] "A process that is carried out at the cellular level which results in the assembly, arrangement of constituent parts, or disassembly of astral microtubules, any of the spindle microtubules that radiate in all directions from the spindle poles." [GOC

5557 Pathogen[ Q2Q067] interacts with 1 human partners:{O95359}

5558 Pathogen[ P0C214] interacts with 1 human partners:{O95359}

5559 Pathogen[ P03346] interacts with 2 human partners:{O95359;Q8N960}

5560 Pathogen[ Q85601] interacts with 1 human partners:{O95359}

5561 Pathogen[ P14079] interacts with 3 human partners:{O95359;Q9Y6A5;Q8N960}

5562 Pathogen[ P03410] interacts with 3 human partners:{Q8N960;O95359;Q9Y6A5}

5563 Pathogen[ P0C206] interacts with 3 human partners:{O95359;Q9Y6A5;Q8N960}

5564 Pathogen[ P03363] interacts with 2 human partners:{O95359;Q8N960}

5565 [Cluster 907]GO:0046323+P biological\_process [name] glucose import [def] "The directed movement of the hexose monosaccharide glucose into a cell or organelle." [GOC

5566 Pathogen[ Q2Q067] interacts with 2 human partners:{P20823;P14672}

5567 Pathogen[ P0C214] interacts with 1 human partners:{P14672}

5568 Pathogen[ P03346] interacts with 2 human partners:{P20823;P14672}

5569 Pathogen[ Q85601] interacts with 2 human partners:{P14672;P20823}

5570 Pathogen[ P14079] interacts with 1 human partners:{P14672}

5571 Pathogen[ P03383] interacts with 1 human partners:{P14672}

5572 Pathogen[ P14075] interacts with 1 human partners:{P14672}

5573 Pathogen[ P0C206] interacts with 2 human partners:{P20823;P14672}

5574 Pathogen[ P03363] interacts with 1 human partners:{P14672}

5575 [Cluster 908]GO:0014912+P biological\_process [name] negative regulation of smooth muscle cell migration [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of smooth muscle cell migration." [CL

5576 Pathogen[ P0C214] interacts with 1 human partners:{P05121}

5577 Pathogen[ Q85601] interacts with 1 human partners:{P05121}

5578 Pathogen[ P03410] interacts with 1 human partners:{P05121}

5579 Pathogen[ P0C206] interacts with 1 human partners:{P05121}



5580 [Cluster 909]GO:0042045+P biological\_process [name] epithelial fluid transport  
[def] "The directed movement of fluid across epithelia." [GOC  
5581 Pathogen[ P14079] interacts with 1 human partners:{P04141}  
5582 Pathogen[ P03410] interacts with 1 human partners:{P04141}  
5583 [Cluster 910]GO:0007009+P biological\_process [name] plasma membrane organization  
[def] "A process that is carried out at the cellular level which results in the  
assembly, arrangement of constituent parts, or disassembly of the plasma membrane." [GOC  
5584 Pathogen[ Q2Q067] interacts with 1 human partners:{Q01082}  
5585 Pathogen[ P0C214] interacts with 1 human partners:{Q01082}  
5586 Pathogen[ P03346] interacts with 3 human partners:{P02549;P11277;Q01082}  
5587 Pathogen[ Q85601] interacts with 1 human partners:{Q01082}  
5588 Pathogen[ P14079] interacts with 4 human partners:{Q01082;Q9Y6X1;P11277;P02549}  
5589 Pathogen[ P03410] interacts with 4 human partners:{P02549;Q9Y6X1;Q01082;P11277}  
5590 Pathogen[ P0C206] interacts with 2 human partners:{Q01082;P11277}  
5591 Pathogen[ P03363] interacts with 3 human partners:{P11277;P02549;Q01082}  
5592 [Cluster 911]GO:0032851+P biological\_process [name] positive regulation of Rab GTPase  
activity [def] "Any process that activates or increases the activity of a GTPase of  
the Rab family." [GOC  
5593 Pathogen[ P03346] interacts with 1 human partners:{O60447}  
5594 Pathogen[ Q85601] interacts with 1 human partners:{O60447}  
5595 Pathogen[ P14079] interacts with 1 human partners:{Q15042}  
5596 Pathogen[ P03410] interacts with 2 human partners:{O60447;Q15042}  
5597 Pathogen[ P0C206] interacts with 1 human partners:{O60447}  
5598 Pathogen[ P03363] interacts with 1 human partners:{O60447}  
5599 [Cluster 912]GO:0046168+P biological\_process [name] glycerol-3-phosphate catabolic  
process [def] "The chemical reactions and pathways resulting in the breakdown of  
glycerol-3-phosphate, a phosphoric monoester of glycerol." [GOC  
5600 Pathogen[ P0C214] interacts with 2 human partners:{Q8N335;P21695}  
5601 Pathogen[ P14079] interacts with 1 human partners:{P21695}  
5602 Pathogen[ P03410] interacts with 1 human partners:{P21695}  
5603 [Cluster 913]GO:0046619+P biological\_process [name] optic placode formation involved  
in camera-type eye formation [def] "Establishment and formation of the optic placode,  
paired ectodermal placodes that become invaginated to form the embryonic lens vesicles."  
[GOC  
5604 Pathogen[ P14079] interacts with 1 human partners:{Q8WU20}  
5605 Pathogen[ P03410] interacts with 1 human partners:{Q8WU20}  
5606 Pathogen[ P0C206] interacts with 1 human partners:{Q8WU20}  
5607 [Cluster 914]GO:0060748+P biological\_process [name] tertiary branching involved in  
mammary gland duct morphogenesis [def] "The branching process in which the mammary  
gland ducts form tertiary branches off of the secondary branches as part of diestrus and  
pregnancy." [GOC  
5608 Pathogen[ P03346] interacts with 1 human partners:{P06401}  
5609 Pathogen[ P0C206] interacts with 1 human partners:{P06401}  
5610 [Cluster 915]GO:0048729+P biological\_process [name] tissue morphogenesis [def] "The  
process in which the anatomical structures of a tissue are generated and organized."  
[GOC  
5611 Pathogen[ Q2Q067] interacts with 2 human partners:{Q13485;Q12959}  
5612 Pathogen[ P0C214] interacts with 2 human partners:{Q13485;Q12959}  
5613 Pathogen[ P03346] interacts with 2 human partners:{Q13485;Q12959}  
5614 Pathogen[ Q85601] interacts with 2 human partners:{Q12959;Q13485}  
5615 Pathogen[ P03383] interacts with 1 human partners:{Q13485}  
5616 Pathogen[ P03410] interacts with 2 human partners:{Q12959;Q13485}  
5617 Pathogen[ P14075] interacts with 1 human partners:{Q13485}  
5618 Pathogen[ P0C206] interacts with 2 human partners:{Q13485;Q12959}  
5619 Pathogen[ P03363] interacts with 2 human partners:{Q12959;Q13485}  
5620 [Cluster 916]GO:0000256+P biological\_process [name] allantoin catabolic process  
[def] "The chemical reactions and pathways resulting in the breakdown of allantoin,  
(2,5-dioxo-4-imidazolidinyl)urea." [GOC  
5621 Pathogen[ P14079] interacts with 1 human partners:{Q8N6M5}  
5622 Pathogen[ P03410] interacts with 1 human partners:{Q8N6M5}  
5623 [Cluster 917]GO:0006797+P biological\_process [name] polyphosphate metabolic process  
[def] "The chemical reactions and pathways involving a polyphosphate, the anion or salt  
of polyphosphoric acid." [GOC  
5624 Pathogen[ P14079] interacts with 1 human partners:{Q9UNW1}  
5625 Pathogen[ P03410] interacts with 1 human partners:{Q9UNW1}  
5626 [Cluster 918]GO:0039536+P  
5627 Pathogen[ P14079] interacts with 1 human partners:{Q96C10}  
5628 Pathogen[ P03410] interacts with 1 human partners:{Q96C10}  
5629 Pathogen[ P0C206] interacts with 1 human partners:{Q96C10}  
5630 [Cluster 919]GO:0031444+P biological\_process [name] slow-twitch skeletal muscle fiber  
contraction [def] "A process in which force is generated within slow-twitch skeletal  
muscle tissue, resulting in a change in muscle geometry. Force generation involves a  
chemo-mechanical energy conversion step that is carried out by the actin/myosin complex  
activity, which generates force through ATP hydrolysis. The slow-twitch skeletal muscle  
is characterized by slow time parameters, low force development and resistance to  
fatigue." [GOC

5631 Pathogen[ P14079] interacts with 1 human partners:{P02144}

5632 Pathogen[ P03410] interacts with 1 human partners:{P02144}

5633 [Cluster 920]GO:0097276+P

5634 Pathogen[ P03346] interacts with 1 human partners:{Q92481}

5635 [Cluster 921]GO:0042073+P biological\_process [name] intraflagellar transport [def] "The bidirectional movement of large protein complexes along microtubules within a cilium or flagellum, mediated by motor proteins." [GOC

5636 Pathogen[ P03346] interacts with 1 human partners:{Q9NQC8}

5637 Pathogen[ P14079] interacts with 1 human partners:{Q9NQC8}

5638 Pathogen[ P03410] interacts with 1 human partners:{Q9NQC8}

5639 Pathogen[ P0C206] interacts with 1 human partners:{Q9NQC8}

5640 Pathogen[ P03363] interacts with 1 human partners:{Q9NQC8}

5641 [Cluster 922]GO:0060324+P biological\_process [name] face development [def] "The biological process whose specific outcome is the progression of a face from an initial condition to its mature state. The face is the ventral division of the head." [GOC

5642 Pathogen[ Q2Q067] interacts with 1 human partners:{P14651}

5643 Pathogen[ P0C214] interacts with 1 human partners:{P14651}

5644 Pathogen[ P03346] interacts with 3 human partners:{P41225;Q9P2D1;P14651}

5645 Pathogen[ Q85601] interacts with 2 human partners:{Q9P2D1;P14651}

5646 Pathogen[ P14079] interacts with 2 human partners:{Q9P2D1;P14651}

5647 Pathogen[ P03383] interacts with 1 human partners:{P14651}

5648 Pathogen[ P03410] interacts with 2 human partners:{P14651;Q9P2D1}

5649 Pathogen[ P0C206] interacts with 2 human partners:{Q9P2D1;P14651}

5650 Pathogen[ P03363] interacts with 1 human partners:{P14651}

5651 [Cluster 923]GO:0018108+P biological\_process [name] peptidyl-tyrosine phosphorylation [def] "The phosphorylation of peptidyl-tyrosine to form peptidyl-04'-phospho-L-tyrosine." [RESID

5652 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8IZP0}

5653 Pathogen[ P0C214] interacts with 1 human partners:{Q8IZP0}

5654 Pathogen[ P03346] interacts with 2 human partners:{Q8IZP0;Q9P2A4}

5655 Pathogen[ Q85601] interacts with 1 human partners:{Q8IZP0}

5656 Pathogen[ P14079] interacts with 3 human partners:{Q8IZP0;Q9P2A4;P49023}

5657 Pathogen[ P03410] interacts with 2 human partners:{Q9P2A4;Q8IZP0}

5658 Pathogen[ P0C206] interacts with 2 human partners:{P30291;Q8IZP0}

5659 Pathogen[ P03363] interacts with 2 human partners:{Q8IZP0;Q9P2A4}

5660 [Cluster 924]GO:0006177+P biological\_process [name] GMP biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of GMP, guanosine monophosphate." [ISBN

5661 Pathogen[ P14079] interacts with 1 human partners:{P49915}

5662 Pathogen[ P03410] interacts with 1 human partners:{P49915}

5663 [Cluster 925]GO:0070159+P biological\_process [name] mitochondrial threonyl-tRNA aminoacylation [def] "The process of coupling threonine to threonyl-tRNA in a mitochondrion, catalyzed by threonyl-tRNA synthetase. In tRNA aminoacylation, the amino acid is first activated by linkage to AMP and then transferred to either the 2'- or the 3'-hydroxyl group of the 3'-adenosine residue of the tRNA." [GOC

5664 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BW92}

5665 Pathogen[ P0C214] interacts with 1 human partners:{Q9BW92}

5666 Pathogen[ Q85601] interacts with 1 human partners:{Q9BW92}

5667 Pathogen[ P14079] interacts with 1 human partners:{Q9BW92}

5668 Pathogen[ P03383] interacts with 1 human partners:{Q9BW92}

5669 Pathogen[ P03410] interacts with 1 human partners:{Q9BW92}

5670 Pathogen[ P14075] interacts with 1 human partners:{Q9BW92}

5671 Pathogen[ P0C206] interacts with 1 human partners:{Q9BW92}

5672 Pathogen[ P03363] interacts with 1 human partners:{Q9BW92}

5673 [Cluster 926]GO:0006437+P biological\_process [name] tyrosyl-tRNA aminoacylation [def] "The process of coupling tyrosine to tyrosyl-tRNA, catalyzed by tyrosyl-tRNA synthetase. In tRNA aminoacylation, the amino acid is first activated by linkage to AMP and then transferred to either the 2'- or the 3'-hydroxyl group of the 3'-adenosine residue of the tRNA." [GOC

5674 Pathogen[ P0C214] interacts with 2 human partners:{P54577;Q9Y2Z4}

5675 Pathogen[ P14079] interacts with 1 human partners:{Q9Y2Z4}

5676 Pathogen[ P03383] interacts with 1 human partners:{Q9Y2Z4}

5677 Pathogen[ P03410] interacts with 1 human partners:{Q9Y2Z4}

5678 Pathogen[ P14075] interacts with 1 human partners:{Q9Y2Z4}

5679 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y2Z4}

5680 Pathogen[ P03363] interacts with 1 human partners:{Q9Y2Z4}

5681 [Cluster 927]GO:0033033+P biological\_process [name] negative regulation of myeloid cell apoptosis [def] "Any process that stops, prevents, or reduces the frequency, rate, or extent of a myeloid cell apoptosis." [GOC

5682 Pathogen[ P0C214] interacts with 1 human partners:{Q7L5Y9}

5683 Pathogen[ Q85601] interacts with 1 human partners:{Q7L5Y9}

5684 Pathogen[ P14079] interacts with 1 human partners:{Q7L5Y9}

5685 Pathogen[ P03410] interacts with 1 human partners:{Q7L5Y9}

5686 Pathogen[ P14075] interacts with 1 human partners:{Q7L5Y9}

5687 Pathogen[ P0C206] interacts with 1 human partners:{Q7L5Y9}

5688 [Cluster 928]GO:0010608+P biological\_process [name] posttranscriptional regulation of

gene expression [def] "Any process that modulates the frequency, rate or extent of gene expression after the production of an RNA transcript." [GOC

5689 Pathogen[ P03346] interacts with 1 human partners:{Q8NHU6}

5690 Pathogen[ P14079] interacts with 1 human partners:{Q8NHU6}

5691 Pathogen[ P03410] interacts with 1 human partners:{Q8NHU6}

5692 Pathogen[ P03363] interacts with 1 human partners:{Q8NHU6}

5693 [Cluster 929]GO:0043409+P biological\_process [name] negative regulation of MAPKKK cascade [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of signal transduction mediated by the MAPKKK cascade." [GOC

5694 Pathogen[ Q2Q067] interacts with 1 human partners:{075832}

5695 Pathogen[ P0C214] interacts with 1 human partners:{075832}

5696 Pathogen[ P03346] interacts with 1 human partners:{075832}

5697 Pathogen[ Q85601] interacts with 1 human partners:{075832}

5698 Pathogen[ P14079] interacts with 3 human partners:{075832;Q14118;Q8NC56}

5699 Pathogen[ P03383] interacts with 1 human partners:{075832}

5700 Pathogen[ P03410] interacts with 3 human partners:{Q14118;Q8NC56;075832}

5701 Pathogen[ P14075] interacts with 1 human partners:{075832}

5702 Pathogen[ P0C206] interacts with 2 human partners:{075832;Q8NC56}

5703 [Cluster 930]GO:0045662+P biological\_process [name] negative regulation of myoblast differentiation [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of myoblast differentiation. A myoblast is a mononucleate cell type that, by fusion with other myoblasts, gives rise to the myotubes that eventually develop into skeletal muscle fibers." [CL

5704 Pathogen[ P03346] interacts with 3 human partners:{Q15911;Q8IYA7;Q9NUK0}

5705 Pathogen[ P14079] interacts with 2 human partners:{Q15911;Q9NUK0}

5706 Pathogen[ P0C206] interacts with 2 human partners:{Q15911;Q9NUK0}

5707 Pathogen[ P03363] interacts with 3 human partners:{Q15911;Q8IYA7;Q9NUK0}

5708 [Cluster 931]GO:0006013+P biological\_process [name] mannose metabolic process [def] "The chemical reactions and pathways involving mannose, the aldohexose manno-hexose, the C-2 epimer of glucose. The D-(+)-form is widely distributed in mannans and hemicelluloses and is of major importance in the core oligosaccharide of N-linked oligosaccharides of glycoproteins." [ISBN

5709 Pathogen[ P14079] interacts with 2 human partners:{Q9NTJ4;P51606}

5710 Pathogen[ P03410] interacts with 2 human partners:{P51606;Q9NTJ4}

5711 [Cluster 932]GO:0006296+P biological\_process [name] nucleotide-excision repair, DNA incision, 5'-to lesion [def] "The endonucleolytic cleavage of the damaged strand of DNA 5' to the site of damage. The incision occurs at the junction of single-stranded DNA and double-stranded DNA that is formed when the DNA duplex is unwound. The incision follows the incision formed 3' to the site of damage." [GOC

5712 Pathogen[ Q2Q067] interacts with 2 human partners:{Q92889;P78549}

5713 Pathogen[ P0C214] interacts with 2 human partners:{Q92889;P78549}

5714 Pathogen[ P03346] interacts with 3 human partners:{P07992;P78549;Q92889}

5715 Pathogen[ Q85601] interacts with 2 human partners:{Q92889;P78549}

5716 Pathogen[ P14079] interacts with 3 human partners:{P78549;Q92889;P07992}

5717 Pathogen[ P03410] interacts with 3 human partners:{P07992;Q92889;P78549}

5718 Pathogen[ P0C206] interacts with 3 human partners:{P07992;Q92889;P78549}

5719 Pathogen[ P03363] interacts with 1 human partners:{Q92889}

5720 [Cluster 933]GO:0018342+P biological\_process [name] protein prenylation [def] "The covalent attachment of a prenyl group to a protein\_ geranyl, farnesyl, or geranylgeranyl groups may be added." [ISBN

5721 Pathogen[ Q2Q067] interacts with 1 human partners:{P49354}

5722 Pathogen[ P0C214] interacts with 1 human partners:{P49354}

5723 Pathogen[ P03346] interacts with 1 human partners:{P49354}

5724 Pathogen[ Q85601] interacts with 1 human partners:{P49354}

5725 Pathogen[ P14079] interacts with 1 human partners:{P49354}

5726 Pathogen[ P03410] interacts with 1 human partners:{P49354}

5727 Pathogen[ P0C206] interacts with 1 human partners:{P49354}

5728 Pathogen[ P03363] interacts with 1 human partners:{P49354}

5729 [Cluster 934]GO:0060876+P biological\_process [name] semicircular canal formation [def] "The developmental process pertaining to the initial formation of the semicircular canal from the otic vesicle. This process begins with the regionalization of the vesicle that specifies the area where the vesicles will form and continues through the process of fusion which forms the initial tubes." [GOC

5730 Pathogen[ Q2Q067] interacts with 1 human partners:{P49639}

5731 Pathogen[ P0C214] interacts with 1 human partners:{P49639}

5732 Pathogen[ P03346] interacts with 1 human partners:{P49639}

5733 Pathogen[ Q85601] interacts with 1 human partners:{P49639}

5734 Pathogen[ P14079] interacts with 1 human partners:{P49639}

5735 Pathogen[ P03383] interacts with 1 human partners:{P49639}

5736 Pathogen[ P03410] interacts with 1 human partners:{P49639}

5737 Pathogen[ P0C206] interacts with 1 human partners:{P49639}

5738 Pathogen[ P03363] interacts with 1 human partners:{P49639}

5739 [Cluster 935]GO:0015884+P biological\_process [name] folic acid transport [def] "The directed movement of folic acid (pteroylglutamic acid) into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore. Folic acid is widely distributed as a member of the vitamin B complex and is essential for the

synthesis of purine and pyrimidines." [GOC  
5740 Pathogen[ P14079] interacts with 1 human partners:{Q96NT5}  
5741 [Cluster 936]GO:0014829+P biological\_process [name] vascular smooth muscle contraction [def] "A process, occurring in the vascular tissue, whereby actin/myosin complex activity generates force through ATP hydrolysis resulting in a change in smooth muscle geometry. This process is always coupled to chemo-mechanical energy conversion." [GOC  
5742 Pathogen[ P0C214] interacts with 1 human partners:{P62736}  
5743 Pathogen[ P03346] interacts with 1 human partners:{P62736}  
5744 Pathogen[ Q85601] interacts with 1 human partners:{P62736}  
5745 Pathogen[ P03410] interacts with 1 human partners:{P62736}  
5746 Pathogen[ P0C206] interacts with 1 human partners:{P62736}  
5747 Pathogen[ P03363] interacts with 1 human partners:{P62736}  
5748 [Cluster 937]GO:0048525+P biological\_process [name] negative regulation of viral reproduction [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the viral life cycle, the set of processes by which a virus reproduces and spreads among hosts." [GOC  
5749 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9HC16}  
5750 Pathogen[ P0C214] interacts with 1 human partners:{Q9HC16}  
5751 Pathogen[ Q85601] interacts with 1 human partners:{Q9HC16}  
5752 Pathogen[ P14079] interacts with 1 human partners:{Q9HC16}  
5753 Pathogen[ P03410] interacts with 2 human partners:{Q9HC16;Q6NTF7}  
5754 Pathogen[ P0C206] interacts with 2 human partners:{Q6NTF7;Q9HC16}  
5755 [Cluster 938]GO:0090244+P biological\_process [name] Wnt receptor signaling pathway involved in somitogenesis [def] "The series of molecular signals initiated by binding of Wnt protein to a frizzled family receptor on the surface of the target cell and ending with a change in cell state that contributes to somitogenesis." [GOC  
5756 Pathogen[ P03346] interacts with 1 human partners:{Q06190}  
5757 Pathogen[ P14079] interacts with 1 human partners:{Q06190}  
5758 Pathogen[ P03410] interacts with 1 human partners:{Q06190}  
5759 Pathogen[ P0C206] interacts with 1 human partners:{Q06190}  
5760 Pathogen[ P03363] interacts with 1 human partners:{Q06190}  
5761 [Cluster 939]GO:0035235+P biological\_process [name] ionotropic glutamate receptor signaling pathway [def] "The series of molecular signals generated as a consequence of glutamate binding to a cell surface receptor, followed by the movement of ions through a channel in the receptor complex." [ISBN  
5762 Pathogen[ P14079] interacts with 1 human partners:{Q15078}  
5763 [Cluster 940]GO:0010887+P biological\_process [name] negative regulation of cholesterol storage [def] "Any process that decreases the rate or extent of cholesterol storage. Cholesterol storage is the accumulation and maintenance in cells or tissues of cholesterol, cholest-5-en-3 beta-ol, the principal sterol of vertebrates and the precursor of many steroids, including bile acids and steroid hormones." [GOC  
5764 Pathogen[ Q2Q067] interacts with 1 human partners:{P55055}  
5765 Pathogen[ P03346] interacts with 1 human partners:{P55055}  
5766 Pathogen[ Q85601] interacts with 1 human partners:{P55055}  
5767 Pathogen[ P14079] interacts with 1 human partners:{P55055}  
5768 Pathogen[ P0C206] interacts with 1 human partners:{P55055}  
5769 [Cluster 941]GO:0060214+P biological\_process [name] endocardium formation [def] "Formation of the endocardium of the heart. The endocardium is an anatomical structure comprised of an endothelium and an extracellular matrix that forms the innermost layer of tissue of the heart, and lines the heart chambers." [GOC  
5770 Pathogen[ P03346] interacts with 1 human partners:{P35713}  
5771 [Cluster 942]GO:0033363+P biological\_process [name] secretory granule organization [def] "A process that is carried out at the cellular level which results in the assembly, arrangement of constituent parts, or disassembly of a secretory granule. A secretory granule is a small subcellular vesicle, surrounded by a membrane, that is formed from the Golgi apparatus and contains a highly concentrated protein destined for secretion." [GOC  
5772 Pathogen[ P0C214] interacts with 1 human partners:{P07093}  
5773 Pathogen[ Q85601] interacts with 1 human partners:{P07093}  
5774 [Cluster 943]GO:0035998+P biological\_process [name] 7,8-dihydroneopterin 3'-triphosphate biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of 7,8-dihydroneopterin 3'-triphosphate." [CHEBI  
5775 Pathogen[ Q2Q067] interacts with 1 human partners:{P30793}  
5776 Pathogen[ P0C214] interacts with 1 human partners:{P30793}  
5777 Pathogen[ Q85601] interacts with 1 human partners:{P30793}  
5778 Pathogen[ P14079] interacts with 1 human partners:{P30793}  
5779 Pathogen[ P03410] interacts with 1 human partners:{P30793}  
5780 Pathogen[ P14075] interacts with 1 human partners:{P30793}  
5781 Pathogen[ P0C206] interacts with 1 human partners:{P30793}  
5782 [Cluster 944]GO:0060709+P biological\_process [name] glycogen cell development involved in embryonic placenta development [def] "The process in which a relatively unspecialized cell acquires specialized features of a glycogen cell of the placenta. A glycogen cell is a vacuolated glycogen-rich cell that appears in compact cell islets of the spongiotrophoblast layer." [GOC  
5783 Pathogen[ Q2Q067] interacts with 1 human partners:{P31749}

5784 Pathogen[ P0C214] interacts with 1 human partners:{P31749}

5785 Pathogen[ P03346] interacts with 1 human partners:{P31749}

5786 Pathogen[ Q85601] interacts with 1 human partners:{P31749}

5787 Pathogen[ P03383] interacts with 1 human partners:{P31749}

5788 Pathogen[ P03410] interacts with 1 human partners:{P31749}

5789 Pathogen[ P14075] interacts with 1 human partners:{P31749}

5790 Pathogen[ P0C206] interacts with 1 human partners:{P31749}

5791 Pathogen[ P03363] interacts with 1 human partners:{P31749}

5792 [Cluster 945]GO:0070075+P biological\_process [name] tear secretion [def] "The regulated release of the aqueous layer of the tear film from the lacrimal glands. Tears are the liquid product of a process of lachrimation to clean and lubricate the eyes. Tear fluid contains water, mucin, lipids, lysozyme, lactoferrin, lipocalin, lacritin, immunoglobulins, glucose, urea, sodium, and potassium." [GOC

5793 Pathogen[ P14079] interacts with 1 human partners:{Q9GZZ8}

5794 Pathogen[ P03410] interacts with 1 human partners:{Q9GZZ8}

5795 Pathogen[ P14075] interacts with 1 human partners:{Q9GZZ8}

5796 [Cluster 946]GO:0002092+P biological\_process [name] positive regulation of receptor internalization [def] "Any process that activates or increases the frequency, rate or extent of receptor internalization." [GOC

5797 Pathogen[ Q2Q067] interacts with 1 human partners:{Q86UL8}

5798 Pathogen[ P03346] interacts with 3 human partners:{Q6P3W7;Q86UL8;Q8N157}

5799 Pathogen[ Q85601] interacts with 1 human partners:{Q86UL8}

5800 Pathogen[ P14079] interacts with 2 human partners:{Q8N157;Q86UL8}

5801 Pathogen[ P03410] interacts with 2 human partners:{Q8N157;Q86UL8}

5802 Pathogen[ P0C206] interacts with 3 human partners:{Q6P3W7;Q8N157;Q86UL8}

5803 Pathogen[ P03363] interacts with 2 human partners:{Q8N157;Q86UL8}

5804 [Cluster 947]GO:0006171+P biological\_process [name] cAMP biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of the nucleotide cAMP (cyclic AMP, adenosine 3',5'-cyclophosphate)." [ISBN

5805 Pathogen[ P14079] interacts with 1 human partners:{O60895}

5806 Pathogen[ P03410] interacts with 1 human partners:{O60895}

5807 [Cluster 948]GO:0021533+P biological\_process [name] cell differentiation in hindbrain [def] "The process in which relatively unspecialized cells acquire specialized structural and/or functional features that characterize the mature cells of the hindbrain. Differentiation includes the processes involved in commitment of a cell to a specific fate." [GO\_REF

5808 Pathogen[ Q2Q067] interacts with 1 human partners:{P23769}

5809 Pathogen[ P0C214] interacts with 1 human partners:{P23769}

5810 Pathogen[ P03346] interacts with 1 human partners:{P23769}

5811 Pathogen[ Q85601] interacts with 1 human partners:{P23769}

5812 Pathogen[ P14079] interacts with 1 human partners:{P23769}

5813 Pathogen[ P03383] interacts with 1 human partners:{P23769}

5814 Pathogen[ P03410] interacts with 1 human partners:{P23769}

5815 Pathogen[ P14075] interacts with 1 human partners:{P23769}

5816 Pathogen[ P0C206] interacts with 1 human partners:{P23769}

5817 [Cluster 949]GO:0051279+P biological\_process [name] regulation of release of sequestered calcium ion into cytosol [def] "Any process that modulates the frequency, rate or extent of the release into the cytosolic compartment of calcium ions sequestered in the endoplasmic reticulum or mitochondria." [GOC

5818 Pathogen[ P14079] interacts with 1 human partners:{O60610}

5819 Pathogen[ P03410] interacts with 1 human partners:{O60610}

5820 [Cluster 950]GO:0034115+P biological\_process [name] negative regulation of heterotypic cell-cell adhesion [def] "Any process that stops, prevents, or reduces the frequency, rate, or extent of heterotypic cell-cell adhesion." [GOC

5821 Pathogen[ P14079] interacts with 1 human partners:{Q13164}

5822 [Cluster 951]GO:2000353+P biological\_process [name] positive regulation of endothelial cell apoptosis [def] "Any process that activates or increases the frequency, rate or extent of endothelial cell apoptosis." [GOC

5823 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9H4X1}

5824 Pathogen[ P0C214] interacts with 1 human partners:{Q9H4X1}

5825 Pathogen[ P03346] interacts with 1 human partners:{Q9H4X1}

5826 Pathogen[ Q85601] interacts with 1 human partners:{Q9H4X1}

5827 Pathogen[ P03383] interacts with 1 human partners:{Q9H4X1}

5828 Pathogen[ P03410] interacts with 1 human partners:{Q9H4X1}

5829 Pathogen[ P14075] interacts with 1 human partners:{Q9H4X1}

5830 Pathogen[ P0C206] interacts with 1 human partners:{Q9H4X1}

5831 Pathogen[ P03363] interacts with 1 human partners:{Q9H4X1}

5832 [Cluster 952]GO:0030828+P biological\_process [name] positive regulation of cGMP biosynthetic process [def] "Any process that activates or increases the frequency, rate or extent of the chemical reactions and pathways resulting in the formation of cGMP." [GOC

5833 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9H2P0}

5834 Pathogen[ P0C214] interacts with 1 human partners:{Q9H2P0}

5835 Pathogen[ P03346] interacts with 1 human partners:{Q9H2P0}

5836 Pathogen[ Q85601] interacts with 1 human partners:{Q9H2P0}

5837 Pathogen[ P14079] interacts with 1 human partners:{Q9H2P0}

5838 Pathogen[ POC206] interacts with 1 human partners:{Q9H2P0}

5839 Pathogen[ P03363] interacts with 1 human partners:{Q9H2P0}

5840 [Cluster 953]GO:0045908+P biological\_process [name] negative regulation of vasodilation [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of vasodilation." [GOC

5841 Pathogen[ P03346] interacts with 1 human partners:{A8MU46}

5842 Pathogen[ P03410] interacts with 1 human partners:{A8MU46}

5843 Pathogen[ P03363] interacts with 1 human partners:{A8MU46}

5844 [Cluster 954]GO:0051353+P biological\_process [name] positive regulation of oxidoreductase activity [def] "Any process that activates or increases the frequency, rate or extent of oxidoreductase activity, the catalysis of an oxidation-reduction (redox) reaction, a reversible chemical reaction in which the oxidation state of an atom or atoms within a molecule is altered." [GOC

5845 Pathogen[ Q2Q067] interacts with 1 human partners:{O14618}

5846 Pathogen[ POC214] interacts with 1 human partners:{O14618}

5847 Pathogen[ P03346] interacts with 1 human partners:{O14618}

5848 Pathogen[ Q85601] interacts with 1 human partners:{O14618}

5849 Pathogen[ P14079] interacts with 2 human partners:{P10109;O14618}

5850 Pathogen[ P03410] interacts with 2 human partners:{P10109;O14618}

5851 Pathogen[ POC206] interacts with 1 human partners:{O14618}

5852 Pathogen[ P03363] interacts with 1 human partners:{O14618}

5853 [Cluster 955]GO:0018022+P biological\_process [name] peptidyl-lysine methylation [def] "The methylation of peptidyl-lysine to form either the mono-, di- or trimethylated derivative." [GOC

5854 Pathogen[ Q2Q067] interacts with 1 human partners:{Q86TU7}

5855 Pathogen[ POC214] interacts with 1 human partners:{Q86TU7}

5856 Pathogen[ P03346] interacts with 1 human partners:{Q86TU7}

5857 Pathogen[ Q85601] interacts with 1 human partners:{Q86TU7}

5858 Pathogen[ P14079] interacts with 1 human partners:{Q86TU7}

5859 Pathogen[ P03383] interacts with 1 human partners:{Q86TU7}

5860 Pathogen[ P03410] interacts with 1 human partners:{Q86TU7}

5861 Pathogen[ P14075] interacts with 1 human partners:{Q86TU7}

5862 Pathogen[ POC206] interacts with 1 human partners:{Q86TU7}

5863 [Cluster 956]GO:0000422+P biological\_process [name] mitochondrion degradation [def] "The autophagic process in which mitochondria are delivered to the vacuole and degraded in response to changing cellular conditions." [PMID

5864 Pathogen[ Q2Q067] interacts with 1 human partners:{O60260}

5865 Pathogen[ POC214] interacts with 1 human partners:{O60260}

5866 Pathogen[ P03346] interacts with 1 human partners:{O60260}

5867 Pathogen[ Q85601] interacts with 1 human partners:{O60260}

5868 Pathogen[ P14079] interacts with 2 human partners:{O60260;Q8IVP5}

5869 Pathogen[ P03383] interacts with 1 human partners:{O60260}

5870 Pathogen[ P03410] interacts with 2 human partners:{O60260;Q8IVP5}

5871 Pathogen[ P14075] interacts with 1 human partners:{O60260}

5872 Pathogen[ POC206] interacts with 1 human partners:{O60260}

5873 [Cluster 957]GO:0010637+P biological\_process [name] negative regulation of mitochondrial fusion [def] "Any process that decreases the frequency, rate or extent of merging of two or more mitochondria within a cell to form a single compartment." [GOC

5874 Pathogen[ Q2Q067] interacts with 1 human partners:{Q12983}

5875 Pathogen[ POC214] interacts with 1 human partners:{Q12983}

5876 Pathogen[ P03346] interacts with 1 human partners:{Q12983}

5877 Pathogen[ Q85601] interacts with 1 human partners:{Q12983}

5878 Pathogen[ P14079] interacts with 1 human partners:{Q12983}

5879 Pathogen[ P03383] interacts with 1 human partners:{Q12983}

5880 Pathogen[ P03410] interacts with 1 human partners:{Q12983}

5881 Pathogen[ P14075] interacts with 1 human partners:{Q12983}

5882 Pathogen[ POC206] interacts with 1 human partners:{Q12983}

5883 [Cluster 958]GO:0010739+P biological\_process [name] positive regulation of protein kinase A signaling cascade [def] "Any process that increases the rate, frequency, or extent of the protein kinase A signaling cascade. The PKA signaling cascade is the series of reactions, mediated by the intracellular serine/threonine kinase protein kinase A, which occurs as a result of a single trigger reaction or compound." [GOC

5884 Pathogen[ Q2Q067] interacts with 1 human partners:{Q02952}

5885 Pathogen[ P03346] interacts with 1 human partners:{Q02952}

5886 Pathogen[ P14079] interacts with 2 human partners:{Q02952;P24588}

5887 Pathogen[ P03383] interacts with 1 human partners:{Q02952}

5888 Pathogen[ P03410] interacts with 2 human partners:{Q02952;P24588}

5889 Pathogen[ P14075] interacts with 1 human partners:{Q02952}

5890 Pathogen[ POC206] interacts with 1 human partners:{Q02952}

5891 Pathogen[ P03363] interacts with 1 human partners:{Q02952}

5892 [Cluster 959]GO:0030208+P biological\_process [name] dermatan sulfate biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of dermatan sulfate, any glycosaminoglycan with repeats consisting of beta-(1,4)-linked L-iduronyl-beta-(1,3)-N-acetyl-D-galactosamine 4-sulfate units." [GOC

5893 Pathogen[ P14079] interacts with 1 human partners:{Q9UL01}

5894 Pathogen[ P03410] interacts with 1 human partners:{Q9UL01}

5895 Pathogen[ P0C206] interacts with 1 human partners:{Q9UL01}

5896 [Cluster 960]GO:0045403+P biological\_process [name] negative regulation of interleukin-4 biosynthetic process [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the chemical reactions and pathways resulting in the formation of interleukin-4." [GOC

5897 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8IX07}

5898 Pathogen[ P0C214] interacts with 1 human partners:{Q8IX07}

5899 Pathogen[ P03346] interacts with 1 human partners:{Q8IX07}

5900 Pathogen[ Q85601] interacts with 1 human partners:{Q8IX07}

5901 Pathogen[ P14079] interacts with 1 human partners:{Q8IX07}

5902 Pathogen[ P03410] interacts with 1 human partners:{Q8IX07}

5903 Pathogen[ P0C206] interacts with 1 human partners:{Q8IX07}

5904 [Cluster 961]GO:0035456+P biological\_process [name] response to interferon-beta [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an interferon-beta stimulus. Interferon-beta is a type I interferon." [GOC

5905 Pathogen[ Q2Q067] interacts with 1 human partners:{O15162}

5906 Pathogen[ P0C214] interacts with 1 human partners:{O15162}

5907 Pathogen[ P03346] interacts with 1 human partners:{O15162}

5908 Pathogen[ Q85601] interacts with 1 human partners:{O15162}

5909 Pathogen[ P14079] interacts with 2 human partners:{P13164;O15162}

5910 Pathogen[ P03383] interacts with 1 human partners:{O15162}

5911 Pathogen[ P03410] interacts with 1 human partners:{O15162}

5912 Pathogen[ P14075] interacts with 1 human partners:{O15162}

5913 Pathogen[ P0C206] interacts with 1 human partners:{O15162}

5914 [Cluster 962]GO:0007202+P biological\_process [name] activation of phospholipase C activity [def] "The initiation of the activity of the inactive enzyme phospholipase C as the result of a series of molecular signals generated as a consequence of a G-protein coupled receptor binding to its physiological ligand." [GOC

5915 Pathogen[ P0C214] interacts with 1 human partners:{P16220}

5916 Pathogen[ P03346] interacts with 1 human partners:{P16220}

5917 Pathogen[ Q85601] interacts with 1 human partners:{P16220}

5918 Pathogen[ P03383] interacts with 1 human partners:{P16220}

5919 Pathogen[ P03410] interacts with 1 human partners:{P16220}

5920 Pathogen[ P14075] interacts with 1 human partners:{P16220}

5921 Pathogen[ P0C206] interacts with 1 human partners:{P16220}

5922 Pathogen[ P03363] interacts with 1 human partners:{P16220}

5923 [Cluster 963]GO:0001544+P biological\_process [name] initiation of primordial ovarian follicle growth [def] "Increase in size of primordial follicles including proliferation and shape changes of granulosa and/or theca cells until oocyte is surrounded by one layer of cuboidal shaped granulosa cells (primary follicle)." [http

5924 Pathogen[ Q2Q067] interacts with 1 human partners:{O43524}

5925 Pathogen[ P03346] interacts with 1 human partners:{O43524}

5926 Pathogen[ P03363] interacts with 1 human partners:{O43524}

5927 [Cluster 964]GO:0010459+P biological\_process [name] negative regulation of heart rate [def] "Any process that stops, prevents or reduces the frequency or rate of heart contraction." [GOC

5928 Pathogen[ Q2Q067] interacts with 1 human partners:{P27986}

5929 Pathogen[ P0C214] interacts with 1 human partners:{P27986}

5930 Pathogen[ P03346] interacts with 1 human partners:{P27986}

5931 Pathogen[ Q85601] interacts with 1 human partners:{P27986}

5932 Pathogen[ P03383] interacts with 1 human partners:{P27986}

5933 Pathogen[ P03410] interacts with 1 human partners:{P27986}

5934 Pathogen[ P14075] interacts with 1 human partners:{P27986}

5935 Pathogen[ P0C206] interacts with 1 human partners:{P27986}

5936 Pathogen[ P03363] interacts with 1 human partners:{P27986}

5937 [Cluster 965]GO:1900218+P

5938 Pathogen[ P03346] interacts with 1 human partners:{Q06710}

5939 [Cluster 966]GO:0055062+P biological\_process [name] phosphate ion homeostasis [def] "Any process involved in the maintenance of an internal steady state of phosphate ions within an organism or cell." [GOC

5940 Pathogen[ P03346] interacts with 1 human partners:{Q92481}

5941 [Cluster 967]GO:0070125+P biological\_process [name] mitochondrial translational elongation [def] "The successive addition of amino acid residues to a nascent polypeptide chain during protein biosynthesis in a mitochondrion." [GOC

5942 Pathogen[ P14079] interacts with 2 human partners:{Q96RP9;Q969S9}

5943 Pathogen[ P03410] interacts with 2 human partners:{Q96RP9;Q969S9}

5944 [Cluster 968]GO:0048806+P biological\_process [name] genitalia development [def] "The process whose specific outcome is the progression of the genitalia over time, from its formation to the mature structure." [GOC

5945 Pathogen[ Q2Q067] interacts with 1 human partners:{P35680}

5946 Pathogen[ P03346] interacts with 2 human partners:{P35680;Q9P2D1}

5947 Pathogen[ Q85601] interacts with 2 human partners:{Q9P2D1;P35680}

5948 Pathogen[ P14079] interacts with 2 human partners:{P35680;Q9P2D1}

5949 Pathogen[ P03410] interacts with 2 human partners:{Q9P2D1;P35680}

5950 Pathogen[ P0C206] interacts with 2 human partners:{Q9P2D1;P35680}

5951 [Cluster 969]GO:0006642+P biological\_process [name] triglyceride mobilization  
[def] "The release of triglycerides, any triester of glycerol, from storage within cells or tissues, making them available for metabolism." [GOC

5952 Pathogen[ Q2Q067] interacts with 1 human partners:{Q14693}

5953 Pathogen[ P0C214] interacts with 1 human partners:{Q14693}

5954 Pathogen[ P03346] interacts with 1 human partners:{Q14693}

5955 Pathogen[ Q85601] interacts with 1 human partners:{Q14693}

5956 Pathogen[ P14079] interacts with 1 human partners:{Q14693}

5957 Pathogen[ P03383] interacts with 1 human partners:{Q14693}

5958 Pathogen[ P03410] interacts with 1 human partners:{Q14693}

5959 Pathogen[ P14075] interacts with 1 human partners:{Q14693}

5960 Pathogen[ P0C206] interacts with 1 human partners:{Q14693}

5961 [Cluster 970]GO:0001881+P biological\_process [name] receptor recycling [def] "The process that results in the return of receptor molecules to an active state and an active cellular location after they have been stimulated by a ligand. An active state is when the receptor is ready to receive a signal." [GOC

5962 Pathogen[ Q2Q067] interacts with 1 human partners:{Q6ICB4}

5963 Pathogen[ P0C214] interacts with 1 human partners:{Q6ICB4}

5964 Pathogen[ P03346] interacts with 3 human partners:{Q9Y6D5;Q8N4B1;Q6ICB4}

5965 Pathogen[ Q85601] interacts with 1 human partners:{Q6ICB4}

5966 Pathogen[ P14079] interacts with 4 human partners:{P49069;Q9Y6D5;Q8N4B1;Q6ICB4}

5967 Pathogen[ P03410] interacts with 4 human partners:{P49069;Q8N4B1;Q9Y6D5;Q6ICB4}

5968 Pathogen[ P0C206] interacts with 3 human partners:{Q6ICB4;Q9Y6D5;Q8N4B1}

5969 Pathogen[ P03363] interacts with 2 human partners:{Q6ICB4;Q8N4B1}

5970 [Cluster 971]GO:0048672+P biological\_process [name] positive regulation of collateral sprouting [def] "Any process that activates or increases the frequency, rate or extent of collateral sprouting." [GOC

5971 Pathogen[ P03346] interacts with 1 human partners:{Q9H165}

5972 Pathogen[ P0C206] interacts with 1 human partners:{Q9H165}

5973 [Cluster 972]GO:0070723+P biological\_process [name] response to cholesterol [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a cholesterol stimulus." [GOC

5974 Pathogen[ Q2Q067] interacts with 1 human partners:{Q15796}

5975 Pathogen[ P0C214] interacts with 1 human partners:{Q15796}

5976 Pathogen[ P03346] interacts with 1 human partners:{Q15796}

5977 Pathogen[ Q85601] interacts with 1 human partners:{Q15796}

5978 Pathogen[ P03383] interacts with 1 human partners:{Q15796}

5979 Pathogen[ P03410] interacts with 1 human partners:{Q15796}

5980 Pathogen[ P14075] interacts with 1 human partners:{Q15796}

5981 Pathogen[ P0C206] interacts with 1 human partners:{Q15796}

5982 Pathogen[ P03363] interacts with 1 human partners:{Q15796}

5983 [Cluster 973]GO:0006533+P biological\_process [name] aspartate catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of aspartate, the anion derived from aspartic acid, 2-aminobutanedioic acid." [GOC

5984 Pathogen[ P03346] interacts with 1 human partners:{P45381}

5985 Pathogen[ P14079] interacts with 1 human partners:{P45381}

5986 Pathogen[ P03410] interacts with 1 human partners:{P45381}

5987 Pathogen[ P0C206] interacts with 1 human partners:{P45381}

5988 [Cluster 974]GO:0002932+P

5989 Pathogen[ P03346] interacts with 1 human partners:{Q8IYA7}

5990 Pathogen[ P03363] interacts with 1 human partners:{Q8IYA7}

5991 [Cluster 975]GO:0071670+P biological\_process [name] smooth muscle cell chemotaxis [def] "The directed movement of a smooth muscle cell in response to an external stimulus." [GOC

5992 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NVD7}

5993 Pathogen[ P0C214] interacts with 1 human partners:{Q9NVD7}

5994 Pathogen[ P03346] interacts with 1 human partners:{Q9NVD7}

5995 Pathogen[ Q85601] interacts with 1 human partners:{Q9NVD7}

5996 Pathogen[ P14079] interacts with 1 human partners:{Q9NVD7}

5997 Pathogen[ P03410] interacts with 1 human partners:{Q9NVD7}

5998 Pathogen[ P0C206] interacts with 1 human partners:{Q9NVD7}

5999 Pathogen[ P03363] interacts with 1 human partners:{Q9NVD7}

6000 [Cluster 976]GO:0060152+P biological\_process [name] microtubule-based peroxisome localization [def] "The microtubule-based process in which a peroxisome is transported to, and/or maintained in, a specific location. A peroxisome is a small membrane-bounded organelle that uses dioxygen (O<sub>2</sub>) to oxidize organic molecules." [GOC

6001 Pathogen[ P03346] interacts with 1 human partners:{O43933}

6002 Pathogen[ Q85601] interacts with 1 human partners:{O43933}

6003 Pathogen[ P0C206] interacts with 1 human partners:{O43933}

6004 Pathogen[ P03363] interacts with 1 human partners:{O43933}

6005 [Cluster 977]GO:2001256+P biological\_process [name] regulation of store-operated calcium entry [def] "Any process that modulates the frequency, rate or extent of store-operated calcium entry." [GOC

6006 Pathogen[ P14079] interacts with 1 human partners:{Q96BY9}

6007 Pathogen[ P03410] interacts with 1 human partners:{Q96BY9}



6008 [Cluster 978]GO:0006771+P biological\_process [name] riboflavin metabolic process  
[def] "The chemical reactions and pathways involving riboflavin (vitamin B2), the precursor for the coenzymes flavin mononucleotide (FMN) and flavin adenine dinucleotide (FAD)." [GOC  
6009 Pathogen[ P0C214] interacts with 1 human partners:{Q8NFF5}  
6010 Pathogen[ P14079] interacts with 1 human partners:{Q8NFF5}  
6011 Pathogen[ P03410] interacts with 1 human partners:{Q8NFF5}  
6012 [Cluster 979]GO:0019344+P biological\_process [name] cysteine biosynthetic process  
[def] "The chemical reactions and pathways resulting in the formation of cysteine, 2-amino-3-mercaptopropanoic acid." [GOC  
6013 Pathogen[ Q2Q067] interacts with 1 human partners:{P32929}  
6014 Pathogen[ P0C214] interacts with 2 human partners:{P32929;P35520}  
6015 Pathogen[ P03346] interacts with 1 human partners:{P32929}  
6016 Pathogen[ Q85601] interacts with 1 human partners:{P32929}  
6017 Pathogen[ P14079] interacts with 1 human partners:{P32929}  
6018 Pathogen[ P03410] interacts with 1 human partners:{P32929}  
6019 Pathogen[ P0C206] interacts with 1 human partners:{P32929}  
6020 [Cluster 980]GO:0072210+P biological\_process [name] metanephric nephron development  
[def] "The process whose specific outcome is the progression of a nephron in the metanephros over time, from its formation to the mature structure. A nephron is the functional unit of the kidney." [GOC  
6021 Pathogen[ P03346] interacts with 1 human partners:{Q92481}  
6022 [Cluster 981]GO:0007066+P biological\_process [name] female meiosis sister chromatid cohesion [def] "The joining of the sister chromatids of a replicated chromosome along the entire length of the chromosome that occurs during meiosis in a female." [GOC  
6023 Pathogen[ Q2Q067] interacts with 1 human partners:{O43502}  
6024 Pathogen[ P0C214] interacts with 1 human partners:{O43502}  
6025 Pathogen[ P03346] interacts with 1 human partners:{O43502}  
6026 Pathogen[ Q85601] interacts with 1 human partners:{O43502}  
6027 Pathogen[ P14079] interacts with 2 human partners:{Q7Z7C7;O43502}  
6028 Pathogen[ P03410] interacts with 2 human partners:{O43502;Q7Z7C7}  
6029 Pathogen[ P14075] interacts with 1 human partners:{Q7Z7C7}  
6030 Pathogen[ P0C206] interacts with 2 human partners:{O43502;Q7Z7C7}  
6031 Pathogen[ P03363] interacts with 1 human partners:{O43502}  
6032 [Cluster 982]GO:0003185+P biological\_process [name] sinoatrial valve morphogenesis  
[def] "The process in which the structure of the sinoatrial valve is generated and organized." [GOC  
6033 Pathogen[ P14079] interacts with 1 human partners:{Q06413}  
6034 [Cluster 983]GO:0010454+P biological\_process [name] negative regulation of cell fate commitment [def] "Any process that stops, prevents or reduces the frequency or rate of cell fate commitment. Cell fate commitment is the commitment of cells to specific cell fates and their capacity to differentiate into particular kinds of cells. Positional information is established through protein signals that emanate from a localized source within a cell (the initial one-cell zygote) or within a developmental field." [GOC  
6035 Pathogen[ Q2Q067] interacts with 1 human partners:{O95238}  
6036 Pathogen[ P0C214] interacts with 1 human partners:{O95238}  
6037 Pathogen[ P03346] interacts with 1 human partners:{O95238}  
6038 Pathogen[ Q85601] interacts with 1 human partners:{O95238}  
6039 Pathogen[ P14079] interacts with 1 human partners:{O95238}  
6040 Pathogen[ P03383] interacts with 1 human partners:{O95238}  
6041 Pathogen[ P03410] interacts with 1 human partners:{O95238}  
6042 Pathogen[ P0C206] interacts with 1 human partners:{O95238}  
6043 Pathogen[ P03363] interacts with 2 human partners:{O95238;Q9C056}  
6044 [Cluster 984]GO:0072289+P biological\_process [name] metanephric nephron tubule formation [def] "The developmental process pertaining to the initial formation of a metanephric nephron tubule from unspecified parts. A metanephric nephron tubule is an epithelial tube that is part of a nephron in the metanephros." [GOC  
6045 Pathogen[ P03346] interacts with 1 human partners:{Q06710}  
6046 [Cluster 985]GO:0043060+P biological\_process [name] meiotic metaphase I plate congression [def] "The alignment of chromosomes at the metaphase plate, a plane halfway between the poles of the meiotic spindle, during meiosis I." [GOC  
6047 Pathogen[ P0C214] interacts with 1 human partners:{P40692}  
6048 Pathogen[ Q85601] interacts with 1 human partners:{P40692}  
6049 Pathogen[ P14079] interacts with 1 human partners:{P40692}  
6050 Pathogen[ P03410] interacts with 1 human partners:{P40692}  
6051 Pathogen[ P0C206] interacts with 1 human partners:{P40692}  
6052 [Cluster 986]GO:0014894+P biological\_process [name] response to denervation involved in regulation of muscle adaptation [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a denervation stimulus. This process occurs as part of the regulation of muscle adaptation." [GOC  
6053 Pathogen[ Q2Q067] interacts with 1 human partners:{P56524}  
6054 Pathogen[ P0C214] interacts with 1 human partners:{P56524}  
6055 Pathogen[ P03346] interacts with 1 human partners:{P56524}  
6056 Pathogen[ Q85601] interacts with 1 human partners:{P56524}  
6057 Pathogen[ P14079] interacts with 1 human partners:{P56524}

6058 Pathogen[ P03383] interacts with 1 human partners:{P56524}

6059 Pathogen[ P03410] interacts with 1 human partners:{P56524}

6060 Pathogen[ P14075] interacts with 1 human partners:{P56524}

6061 Pathogen[ P0C206] interacts with 1 human partners:{P56524}

6062 [Cluster 987]GO:0043583+P biological\_process [name] ear development [def] "The process whose specific outcome is the progression of the ear over time, from its formation to the mature structure. The ear is the sense organ in vertebrates that is specialized for the detection of sound, and the maintenance of balance. Includes the outer ear and middle ear, which collect and transmit sound waves\_ and the inner ear, which contains the organs of balance and (except in fish) hearing. Also includes the pinna, the visible part of the outer ear, present in some mammals." [GOC

6063 Pathogen[ P03346] interacts with 2 human partners:{P56178;P56915}

6064 Pathogen[ P03363] interacts with 1 human partners:{P56915}

6065 [Cluster 988]GO:0030704+P biological\_process [name] vitelline membrane formation [def] "Construction of the vitelline membrane portion of the egg shell, a rigid structure required to maintain the shape of the egg." [ISBN

6066 Pathogen[ P14079] interacts with 1 human partners:{Q7Z5L0}

6067 Pathogen[ P03410] interacts with 1 human partners:{Q7Z5L0}

6068 [Cluster 989]GO:0006505+P biological\_process [name] GPI anchor metabolic process [def] "The chemical reactions and pathways involving glycosylphosphatidylinositol anchors, molecular mechanisms for attaching membrane proteins to the lipid bilayer of cell membranes. Structurally they consist of a molecule of phosphatidylinositol to which is linked, via the C-6 hydroxyl of the inositol, a carbohydrate chain. This chain is in turn linked to the protein through an ethanolamine phosphate group, the amino group of which is in amide linkage with the C-terminal carboxyl of the protein chain, the phosphate group being esterified to the C-6 hydroxyl of the terminal mannose of the core carbohydrate chain." [ISBN

6069 Pathogen[ P14079] interacts with 2 human partners:{Q96JX3;Q96FM1}

6070 Pathogen[ P03410] interacts with 2 human partners:{Q96FM1;Q96JX3}

6071 [Cluster 990]GO:0022405+P biological\_process [name] hair cycle process [def] "A multicellular organismal process involved in the cyclical phases of growth (anagen), regression (catagen), quiescence (telogen), and shedding (exogen) in the life of a hair\_ one of the collection or mass of filaments growing from the skin of an animal, and forming a covering for a part of the head or for any part or the whole of the body." [GOC

6072 Pathogen[ P03346] interacts with 1 human partners:{P35713}

6073 [Cluster 991]GO:0019287+P biological\_process [name] isopentenyl diphosphate biosynthetic process, mevalonate pathway [def] "The chemical reactions and pathways resulting in the formation of isopentenyl diphosphate, via the intermediate mevalonate. This pathway converts acetate, in the form of acetyl-CoA, to isopentenyl diphosphate (IPP), the fundamental unit in isoprenoid biosynthesis, through a series of mevalonate intermediates." [GOC

6074 Pathogen[ P14079] interacts with 1 human partners:{P53602}

6075 Pathogen[ P03410] interacts with 1 human partners:{P53602}

6076 [Cluster 992]GO:0009620+P biological\_process [name] response to fungus [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a stimulus from a fungus." [GOC

6077 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9UDY8;O95999}

6078 Pathogen[ P0C214] interacts with 2 human partners:{Q9UDY8;O95999}

6079 Pathogen[ P03346] interacts with 2 human partners:{Q9UDY8;O95999}

6080 Pathogen[ Q85601] interacts with 2 human partners:{Q9UDY8;O95999}

6081 Pathogen[ P14079] interacts with 1 human partners:{O95999}

6082 Pathogen[ P03383] interacts with 1 human partners:{O95999}

6083 Pathogen[ P03410] interacts with 1 human partners:{O95999}

6084 Pathogen[ P14075] interacts with 1 human partners:{O95999}

6085 Pathogen[ P0C206] interacts with 2 human partners:{Q9UDY8;O95999}

6086 [Cluster 993]GO:0032600+P biological\_process [name] chemokine receptor transport out of membrane raft [def] "The directed movement of a chemokine receptor out of a membrane raft." [GOC

6087 Pathogen[ Q2Q067] interacts with 1 human partners:{P25063}

6088 Pathogen[ P0C214] interacts with 1 human partners:{P25063}

6089 Pathogen[ P03346] interacts with 1 human partners:{P25063}

6090 Pathogen[ P14079] interacts with 1 human partners:{P25063}

6091 Pathogen[ P03383] interacts with 1 human partners:{P25063}

6092 Pathogen[ P03410] interacts with 1 human partners:{P25063}

6093 Pathogen[ P14075] interacts with 1 human partners:{P25063}

6094 Pathogen[ P0C206] interacts with 1 human partners:{P25063}

6095 [Cluster 994]GO:0070972+P biological\_process [name] protein localization in endoplasmic reticulum [def] "A process in which a protein is transported to, or maintained in, a location within the endoplasmic reticulum." [GOC

6096 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96JE7}

6097 Pathogen[ P0C214] interacts with 1 human partners:{Q96JE7}

6098 Pathogen[ P03346] interacts with 1 human partners:{Q96JE7}

6099 Pathogen[ Q85601] interacts with 1 human partners:{Q96JE7}

6100 Pathogen[ P14079] interacts with 2 human partners:{Q9Y5Y5;Q96JE7}

6101 Pathogen[ P03383] interacts with 1 human partners:{Q96JE7}

6102 Pathogen[ P03410] interacts with 2 human partners:{Q9Y5Y5;Q96JE7}

6103 Pathogen[ P14075] interacts with 1 human partners:{Q96JE7}

6104 Pathogen[ POC206] interacts with 1 human partners:{Q96JE7}

6105 [Cluster 995]GO:0014889+P biological\_process [name] muscle atrophy [def] "A process, occurring in the muscle, that is characterized by a decrease in protein content, fiber diameter, force production and fatigue resistance in response to different conditions such as starvation, aging and disuse." [GOC

6106 Pathogen[ Q2Q067] interacts with 1 human partners:{Q969P5}

6107 Pathogen[ POC214] interacts with 1 human partners:{Q969P5}

6108 Pathogen[ P03346] interacts with 1 human partners:{Q969P5}

6109 Pathogen[ Q85601] interacts with 1 human partners:{Q969P5}

6110 Pathogen[ P14079] interacts with 1 human partners:{Q969P5}

6111 Pathogen[ P03410] interacts with 1 human partners:{Q969P5}

6112 Pathogen[ POC206] interacts with 1 human partners:{Q969P5}

6113 Pathogen[ P03363] interacts with 1 human partners:{Q969P5}

6114 [Cluster 996]GO:0036152+P

6115 Pathogen[ P14079] interacts with 1 human partners:{Q9NZ20}

6116 Pathogen[ P03410] interacts with 1 human partners:{Q9NZ20}

6117 [Cluster 997]GO:2000768+P biological\_process [name] positive regulation of nephron tubule epithelial cell differentiation [def] "Any process that activates or increases the frequency, rate or extent of nephron tubule epithelial cell differentiation." [GOC

6118 Pathogen[ Q2Q067] interacts with 1 human partners:{P25063}

6119 Pathogen[ POC214] interacts with 1 human partners:{P25063}

6120 Pathogen[ P03346] interacts with 1 human partners:{P25063}

6121 Pathogen[ P14079] interacts with 1 human partners:{P25063}

6122 Pathogen[ P03383] interacts with 1 human partners:{P25063}

6123 Pathogen[ P03410] interacts with 1 human partners:{P25063}

6124 Pathogen[ P14075] interacts with 1 human partners:{P25063}

6125 Pathogen[ POC206] interacts with 1 human partners:{P25063}

6126 [Cluster 998]GO:0019343+P biological\_process [name] cysteine biosynthetic process via cystathionine [def] "The chemical reactions and pathways resulting in the formation of cysteine, via the intermediate cystathionine." [GOC

6127 Pathogen[ POC214] interacts with 1 human partners:{P35520}

6128 [Cluster 999]GO:0060038+P biological\_process [name] cardiac muscle cell proliferation [def] "The expansion of a cardiac muscle cell population by cell division." [GOC

6129 Pathogen[ Q2Q067] interacts with 1 human partners:{P28702}

6130 Pathogen[ P03346] interacts with 1 human partners:{P28702}

6131 Pathogen[ Q85601] interacts with 1 human partners:{P28702}

6132 Pathogen[ P14079] interacts with 1 human partners:{P28702}

6133 Pathogen[ P03383] interacts with 1 human partners:{P28702}

6134 Pathogen[ P03410] interacts with 1 human partners:{P28702}

6135 Pathogen[ P14075] interacts with 1 human partners:{P28702}

6136 Pathogen[ POC206] interacts with 1 human partners:{P28702}

6137 Pathogen[ P03363] interacts with 1 human partners:{P28702}

6138 [Cluster 1000]GO:0042743+P biological\_process [name] hydrogen peroxide metabolic process [def] "The chemical reactions and pathways involving hydrogen peroxide (H2O2), a potentially harmful byproduct of aerobic cellular respiration which can cause damage to DNA." [GOC

6139 Pathogen[ Q2Q067] interacts with 1 human partners:{Q99497}

6140 Pathogen[ POC214] interacts with 1 human partners:{Q99497}

6141 Pathogen[ P03346] interacts with 1 human partners:{Q99497}

6142 Pathogen[ Q85601] interacts with 1 human partners:{Q99497}

6143 Pathogen[ P14079] interacts with 1 human partners:{Q99497}

6144 Pathogen[ P03410] interacts with 1 human partners:{Q99497}

6145 Pathogen[ POC206] interacts with 1 human partners:{Q99497}

6146 [Cluster 1001]GO:0043931+P biological\_process [name] ossification involved in bone maturation [def] "The formation of bone or of a bony substance, or the conversion of fibrous tissue or of cartilage into bone, involved in the progression of the skeleton from its formation to its mature state." [GOC

6147 Pathogen[ Q2Q067] interacts with 1 human partners:{P61586}

6148 Pathogen[ POC214] interacts with 1 human partners:{P61586}

6149 Pathogen[ P03346] interacts with 1 human partners:{P61586}

6150 Pathogen[ Q85601] interacts with 1 human partners:{P61586}

6151 Pathogen[ P14079] interacts with 1 human partners:{P61586}

6152 Pathogen[ P03383] interacts with 1 human partners:{P61586}

6153 Pathogen[ P03410] interacts with 1 human partners:{P61586}

6154 Pathogen[ P14075] interacts with 1 human partners:{P61586}

6155 Pathogen[ POC206] interacts with 1 human partners:{P61586}

6156 [Cluster 1002]GO:0048747+P biological\_process [name] muscle fiber development [def] "The process whose specific outcome is the progression of the muscle fiber over time, from its formation to the mature structure. Muscle fibers are formed by the maturation of myotubes. They can be classed as slow, intermediate/fast or fast." [GOC

6157 Pathogen[ POC214] interacts with 1 human partners:{Q8WV60}

6158 Pathogen[ Q85601] interacts with 1 human partners:{Q8WV60}

6159 Pathogen[ P14079] interacts with 1 human partners:{Q8WV60}

6160 Pathogen[ P03410] interacts with 1 human partners:{Q8WV60}

6161 Pathogen[ P0C206] interacts with 1 human partners:{Q8WV60}

6162 [Cluster 1003]GO:1900737+P

6163 Pathogen[ P0C214] interacts with 1 human partners:{Q96G01}

6164 Pathogen[ P03346] interacts with 1 human partners:{Q96G01}

6165 Pathogen[ Q85601] interacts with 1 human partners:{Q96G01}

6166 Pathogen[ P14079] interacts with 1 human partners:{Q96G01}

6167 Pathogen[ P03410] interacts with 1 human partners:{Q96G01}

6168 Pathogen[ P0C206] interacts with 1 human partners:{Q96G01}

6169 [Cluster 1004]GO:0033315+P biological\_process [name] meiotic cell cycle DNA replication checkpoint [def] "A cell cycle checkpoint that acts during a meiotic cell cycle and prevents the initiation of mitosis until DNA replication is complete, thereby ensuring that progeny inherit a full complement of the haploid genome." [GOC

6170 Pathogen[ P14079] interacts with 1 human partners:{Q7Z7C7}

6171 Pathogen[ P03410] interacts with 1 human partners:{Q7Z7C7}

6172 Pathogen[ P14075] interacts with 1 human partners:{Q7Z7C7}

6173 Pathogen[ P0C206] interacts with 1 human partners:{Q7Z7C7}

6174 [Cluster 1005]GO:1901315+P

6175 Pathogen[ Q2Q067] interacts with 1 human partners:{Q14669}

6176 Pathogen[ P0C214] interacts with 2 human partners:{O95071;Q14669}

6177 Pathogen[ P03346] interacts with 3 human partners:{Q14669;Q96FW1;O95071}

6178 Pathogen[ Q85601] interacts with 2 human partners:{Q14669;O95071}

6179 Pathogen[ P14079] interacts with 1 human partners:{Q96FW1}

6180 Pathogen[ P03410] interacts with 1 human partners:{Q96FW1}

6181 Pathogen[ P14075] interacts with 1 human partners:{Q96FW1}

6182 Pathogen[ P0C206] interacts with 3 human partners:{Q14669;Q96FW1;O95071}

6183 Pathogen[ P03363] interacts with 3 human partners:{Q14669;O95071;Q96FW1}

6184 [Cluster 1006]GO:0042753+P biological\_process [name] positive regulation of circadian rhythm [def] "Any process that activates or increases the frequency, rate or extent of a circadian rhythm behavior." [GOC

6185 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9Y297}

6186 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y297}

6187 Pathogen[ P03346] interacts with 1 human partners:{Q9Y297}

6188 [Cluster 1007]GO:0045869+P biological\_process [name] negative regulation of retroviral genome replication [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of retroviral genome replication." [GOC

6189 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9HC16}

6190 Pathogen[ P0C214] interacts with 1 human partners:{Q9HC16}

6191 Pathogen[ Q85601] interacts with 1 human partners:{Q9HC16}

6192 Pathogen[ P14079] interacts with 1 human partners:{Q9HC16}

6193 Pathogen[ P03410] interacts with 2 human partners:{Q9HC16;Q6NTF7}

6194 Pathogen[ P0C206] interacts with 2 human partners:{Q6NTF7;Q9HC16}

6195 [Cluster 1008]GO:0050779+P biological\_process [name] RNA destabilization [def] "Any process that decreases the stability of an RNA molecule, making it more vulnerable to degradative processes." [GOC

6196 Pathogen[ Q2Q067] interacts with 1 human partners:{P26651}

6197 Pathogen[ P0C214] interacts with 1 human partners:{P26651}

6198 Pathogen[ P03346] interacts with 1 human partners:{P26651}

6199 Pathogen[ Q85601] interacts with 1 human partners:{P26651}

6200 Pathogen[ P03383] interacts with 1 human partners:{P26651}

6201 Pathogen[ P03410] interacts with 1 human partners:{P26651}

6202 Pathogen[ P14075] interacts with 1 human partners:{P26651}

6203 Pathogen[ P0C206] interacts with 1 human partners:{P26651}

6204 Pathogen[ P03363] interacts with 1 human partners:{P26651}

6205 [Cluster 1009]GO:0002906+P biological\_process [name] negative regulation of mature B cell apoptosis [def] "Any process that stops, prevents, or reduces the frequency, rate, or extent of mature B cell apoptosis." [GOC

6206 Pathogen[ Q2Q067] interacts with 1 human partners:{O95999}

6207 Pathogen[ P0C214] interacts with 1 human partners:{O95999}

6208 Pathogen[ P03346] interacts with 1 human partners:{O95999}

6209 Pathogen[ Q85601] interacts with 1 human partners:{O95999}

6210 Pathogen[ P14079] interacts with 1 human partners:{O95999}

6211 Pathogen[ P03383] interacts with 1 human partners:{O95999}

6212 Pathogen[ P03410] interacts with 1 human partners:{O95999}

6213 Pathogen[ P14075] interacts with 1 human partners:{O95999}

6214 Pathogen[ P0C206] interacts with 1 human partners:{O95999}

6215 [Cluster 1010]GO:0021860+P biological\_process [name] pyramidal neuron development [def] "The progression of a pyramidal neuron from its initial formation to its mature state." [GO\_REF

6216 Pathogen[ P14079] interacts with 1 human partners:{O14949}

6217 Pathogen[ P03410] interacts with 1 human partners:{O14949}

6218 [Cluster 1011]GO:0031032+P biological\_process [name] actomyosin structure organization [def] "A process that is carried out at the cellular level which results in the assembly, arrangement of constituent parts, or disassembly of cytoskeletal structures containing both actin and myosin or paramyosin. The myosin may be organized into filaments." [GOC

6219 Pathogen[ P0C214] interacts with 1 human partners:{Q92614}

6220 Pathogen[ P03346] interacts with 2 human partners:{Q92614;Q9H329}

6221 Pathogen[ Q85601] interacts with 1 human partners:{Q92614}

6222 Pathogen[ P14079] interacts with 3 human partners:{Q92614;P68032;Q99439}

6223 Pathogen[ P03410] interacts with 3 human partners:{Q9H329;Q92614;Q99439}

6224 Pathogen[ P0C206] interacts with 1 human partners:{Q92614}

6225 Pathogen[ P03363] interacts with 2 human partners:{Q92614;Q9H329}

6226 [Cluster 1012]GO:0071042+P biological\_process [name] nuclear polyadenylation-dependent mRNA catabolic process [def] "The chemical reactions and pathways occurring in the nucleus and resulting in the breakdown of a messenger RNA (mRNA) molecule, initiated by the enzymatic addition of a sequence of adenyl residues (polyadenylation) at the 3' end the target mRNA." [GOC

6227 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8TCS8}

6228 Pathogen[ P0C214] interacts with 1 human partners:{Q8TCS8}

6229 Pathogen[ P03346] interacts with 1 human partners:{Q8TCS8}

6230 Pathogen[ Q85601] interacts with 1 human partners:{Q8TCS8}

6231 Pathogen[ P14079] interacts with 1 human partners:{Q8TCS8}

6232 Pathogen[ P03383] interacts with 1 human partners:{Q8TCS8}

6233 Pathogen[ P03410] interacts with 1 human partners:{Q8TCS8}

6234 Pathogen[ P14075] interacts with 1 human partners:{Q8TCS8}

6235 Pathogen[ P0C206] interacts with 1 human partners:{Q8TCS8}

6236 [Cluster 1013]GO:0032801+P biological\_process [name] receptor catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of a receptor molecule, a macromolecule that undergoes combination with a hormone, neurotransmitter, drug or intracellular messenger to initiate a change in cell function." [GOC

6237 Pathogen[ P0C214] interacts with 1 human partners:{Q9HCE7}

6238 [Cluster 1014]GO:0046579+P biological\_process [name] positive regulation of Ras protein signal transduction [def] "Any process that activates or increases the frequency, rate or extent of Ras protein signal transduction." [GOC

6239 Pathogen[ P03346] interacts with 1 human partners:{Q9UQ13}

6240 Pathogen[ P03363] interacts with 1 human partners:{Q9UQ13}

6241 [Cluster 1015]GO:0050848+P biological\_process [name] regulation of calcium-mediated signaling [def] "Any process that modulates the frequency, rate or extent of calcium-mediated signaling, the process in which a cell uses calcium ions to convert an extracellular signal into a response." [GOC

6242 Pathogen[ P03346] interacts with 1 human partners:{Q9HC24}

6243 Pathogen[ P14079] interacts with 2 human partners:{Q9HC24;Q15493}

6244 Pathogen[ P03410] interacts with 2 human partners:{Q9HC24;Q15493}

6245 Pathogen[ P0C206] interacts with 2 human partners:{Q15493;Q9HC24}

6246 [Cluster 1016]GO:0046219+P biological\_process [name] indolalkylamine biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of indolalkylamines, indole or indole derivatives containing a primary, secondary, or tertiary amine group." [CHEBI

6247 Pathogen[ P0C214] interacts with 1 human partners:{Q16613}

6248 Pathogen[ Q85601] interacts with 1 human partners:{Q16613}

6249 Pathogen[ P14079] interacts with 1 human partners:{Q16613}

6250 Pathogen[ P03383] interacts with 1 human partners:{Q16613}

6251 Pathogen[ P03410] interacts with 1 human partners:{Q16613}

6252 Pathogen[ P14075] interacts with 1 human partners:{Q16613}

6253 Pathogen[ P0C206] interacts with 1 human partners:{Q16613}

6254 [Cluster 1017]GO:0050935+P biological\_process [name] iridophore differentiation [def] "The process in which a relatively unspecialized cell acquires the specialized features of an iridophore. Iridophores are pigment cells derived from the neural crest. They contain guanidine or other purine crystals deposited in stacks called reflecting platets or iridosomes. This gives them a silver, gold, or iridescent appearance." [GOC

6255 Pathogen[ P03346] interacts with 1 human partners:{Q9UJU5}

6256 Pathogen[ P03363] interacts with 1 human partners:{Q9UJU5}

6257 [Cluster 1018]GO:2000779+P biological\_process [name] regulation of double-strand break repair [def] "Any process that modulates the frequency, rate or extent of double-strand break repair." [GOC

6258 Pathogen[ P03346] interacts with 1 human partners:{P35659}

6259 Pathogen[ P14079] interacts with 1 human partners:{P35659}

6260 Pathogen[ P03410] interacts with 1 human partners:{P35659}

6261 Pathogen[ P14075] interacts with 1 human partners:{P35659}

6262 Pathogen[ P0C206] interacts with 1 human partners:{P35659}

6263 Pathogen[ P03363] interacts with 1 human partners:{P35659}

6264 [Cluster 1019]GO:0070189+P biological\_process [name] kynurenine metabolic process [def] "The chemical reactions and pathways involving kynurenine, the amino acid 3-(2-aminobenzoyl)-alanine." [CHEBI

6265 Pathogen[ P0C214] interacts with 1 human partners:{Q16773}

6266 [Cluster 1020]GO:0021514+P biological\_process [name] ventral spinal cord interneuron differentiation [def] "The process in which neuroepithelial cells in the neural tube acquire specialized structural and/or functional features of ventral spinal cord interneurons. Ventral spinal cord interneurons are cells located in the ventral portion of the spinal cord that transmit signals between sensory and motor neurons and are required for reflexive responses. Differentiation includes the processes involved in

commitment of a cell to a specific fate." [GO\_REF

6267 Pathogen[ Q2Q067] interacts with 1 human partners:{P23769}

6268 Pathogen[ POC214] interacts with 1 human partners:{P23769}

6269 Pathogen[ P03346] interacts with 2 human partners:{P23769;P61968}

6270 Pathogen[ Q85601] interacts with 2 human partners:{P61968;P23769}

6271 Pathogen[ P14079] interacts with 1 human partners:{P23769}

6272 Pathogen[ P03383] interacts with 1 human partners:{P23769}

6273 Pathogen[ P03410] interacts with 1 human partners:{P23769}

6274 Pathogen[ P14075] interacts with 1 human partners:{P23769}

6275 Pathogen[ POC206] interacts with 2 human partners:{P23769;P61968}

6276 [Cluster 1021]GO:0050983+P biological\_process [name] deoxyhypusine biosynthetic process from spermidine, using deoxyhypusine synthase [def] "The chemical reactions resulting in the formation of deoxyhypusine from spermidine by the enzyme [eIF-5A]-deoxyhypusine synthase. The reaction occurs in four steps

6277 Pathogen[ Q2Q067] interacts with 1 human partners:{P49366}

6278 Pathogen[ POC214] interacts with 1 human partners:{P49366}

6279 Pathogen[ P03346] interacts with 1 human partners:{P49366}

6280 Pathogen[ P14079] interacts with 1 human partners:{P49366}

6281 Pathogen[ P03383] interacts with 1 human partners:{P49366}

6282 Pathogen[ P03410] interacts with 1 human partners:{P49366}

6283 Pathogen[ P14075] interacts with 1 human partners:{P49366}

6284 Pathogen[ POC206] interacts with 1 human partners:{P49366}

6285 Pathogen[ P03363] interacts with 1 human partners:{P49366}

6286 [Cluster 1022]GO:0060008+P biological\_process [name] Sertoli cell differentiation [def] "The process in which a relatively unspecialized cell acquires specialized structural and/or functional features of a Sertoli cell. A Sertoli cell is a supporting cell projecting inward from the basement membrane of seminiferous tubules." [GOC

6287 Pathogen[ P03346] interacts with 3 human partners:{O43680;P51843;Q9Y5R6}

6288 Pathogen[ POC206] interacts with 1 human partners:{Q9Y5R6}

6289 Pathogen[ P03363] interacts with 1 human partners:{Q9Y5R6}

6290 [Cluster 1023]GO:0006568+P biological\_process [name] tryptophan metabolic process [def] "The chemical reactions and pathways involving tryptophan, the chiral amino acid 2-amino-3-(1H-indol-3-yl)propanoic acid." [ISBN

6291 Pathogen[ P14079] interacts with 1 human partners:{P48775}

6292 Pathogen[ P03410] interacts with 1 human partners:{P48775}

6293 [Cluster 1024]GO:0042554+P biological\_process [name] superoxide anion generation [def] "The enzymatic generation of superoxide, the superoxide anion O<sub>2</sub><sup>-</sup> (superoxide free radical), or any compound containing this species, by a cell in response to environmental stress, thereby mediating the activation of various stress-inducible signaling pathways." [GOC

6294 Pathogen[ POC214] interacts with 1 human partners:{P18054}

6295 Pathogen[ P03346] interacts with 1 human partners:{P18054}

6296 Pathogen[ P14079] interacts with 1 human partners:{P13498}

6297 [Cluster 1025]GO:0060040+P biological\_process [name] retinal bipolar neuron differentiation [def] "The process in which a relatively unspecialized cell acquires specialized features of a bipolar cell, the last neuron to be generated in the retina." [GOC

6298 Pathogen[ Q2Q067] interacts with 2 human partners:{Q8NFJ8;P58304}

6299 Pathogen[ POC214] interacts with 1 human partners:{Q8NFJ8}

6300 Pathogen[ P03346] interacts with 4 human partners:{Q9NZR4;P58304;Q8NFJ8;P78411}

6301 Pathogen[ Q85601] interacts with 2 human partners:{Q8NFJ8;P58304}

6302 Pathogen[ P14079] interacts with 2 human partners:{P58304;Q8NFJ8}

6303 Pathogen[ P03410] interacts with 1 human partners:{Q8NFJ8}

6304 Pathogen[ POC206] interacts with 3 human partners:{P78411;Q8NFJ8;P58304}

6305 Pathogen[ P03363] interacts with 4 human partners:{Q9NZR4;P58304;P78411;Q8NFJ8}

6306 [Cluster 1026]GO:0034260+P biological\_process [name] negative regulation of GTPase activity [def] "Any process that stops or reduces the rate of GTP hydrolysis by a GTPase." [GOC

6307 Pathogen[ POC214] interacts with 1 human partners:{P36404}

6308 Pathogen[ P03346] interacts with 2 human partners:{P36404;Q15363}

6309 Pathogen[ P14079] interacts with 1 human partners:{Q15363}

6310 Pathogen[ P03410] interacts with 1 human partners:{Q15363}

6311 Pathogen[ POC206] interacts with 1 human partners:{Q15363}

6312 [Cluster 1027]GO:2000286+P biological\_process [name] receptor internalization involved in canonical Wnt receptor signaling pathway [def] "A receptor internalization process that contributes to canonical Wnt receptor signaling pathway." [GOC

6313 Pathogen[ P03346] interacts with 1 human partners:{Q6P3W7}

6314 Pathogen[ POC206] interacts with 1 human partners:{Q6P3W7}

6315 [Cluster 1028]GO:0021884+P biological\_process [name] forebrain neuron development [def] "The process whose specific outcome is the progression of a neuron that resides in the forebrain, from its initial commitment to its fate, to the fully functional differentiated cell." [GO\_REF

6316 Pathogen[ P03346] interacts with 1 human partners:{Q68G74}

6317 Pathogen[ POC206] interacts with 1 human partners:{Q68G74}

6318 [Cluster 1029]GO:0008615+P biological\_process [name] pyridoxine biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of pyridoxine,

2-methyl-3-hydroxy-4,5-bis(hydroxymethyl)pyridine, one of the vitamin B6 compounds." [GOC

6319 Pathogen[ POC214] interacts with 1 human partners:{Q9Y617}

6320 Pathogen[ P14079] interacts with 2 human partners:{Q9Y617;Q9NVS9}

6321 Pathogen[ P03410] interacts with 2 human partners:{Q9Y617;Q9NVS9}

6322 Pathogen[ P14075] interacts with 1 human partners:{Q9NVS9}

6323 [Cluster 1030]GO:0006939+P biological\_process [name] smooth muscle contraction [def] "A process in which force is generated within smooth muscle tissue, resulting in a change in muscle geometry. Force generation involves a chemo-mechanical energy conversion step that is carried out by the actin/myosin complex activity, which generates force through ATP hydrolysis. Smooth muscle differs from striated muscle in the much higher actin/myosin ratio, the absence of conspicuous sarcomeres and the ability to contract to a much smaller fraction of its resting length." [GOC

6324 Pathogen[ POC214] interacts with 1 human partners:{P35749}

6325 Pathogen[ Q85601] interacts with 1 human partners:{P35749}

6326 Pathogen[ POC206] interacts with 1 human partners:{P35749}

6327 [Cluster 1031]GO:0042780+P biological\_process [name] tRNA 3'-end processing [def] "The process in which the 3' end of a pre-tRNA molecule is converted to that of a mature tRNA." [GOC

6328 Pathogen[ P14079] interacts with 1 human partners:{Q96Q11}

6329 Pathogen[ P03410] interacts with 2 human partners:{Q96Q11;O75127}

6330 [Cluster 1032]GO:0043380+P biological\_process [name] regulation of memory T cell differentiation [def] "Any process that modulates the frequency, rate, or extent of memory T cell differentiation." [ISBN

6331 Pathogen[ Q2Q067] interacts with 1 human partners:{P41182}

6332 Pathogen[ POC214] interacts with 1 human partners:{P41182}

6333 Pathogen[ P03346] interacts with 1 human partners:{P41182}

6334 Pathogen[ Q85601] interacts with 1 human partners:{P41182}

6335 Pathogen[ P14079] interacts with 1 human partners:{P41182}

6336 Pathogen[ P03410] interacts with 1 human partners:{P41182}

6337 Pathogen[ POC206] interacts with 1 human partners:{P41182}

6338 [Cluster 1033]GO:0002573+P biological\_process [name] myeloid leukocyte differentiation [def] "The process in which a relatively unspecialized myeloid precursor cell acquires the specialized features of any cell of the myeloid leukocyte lineage." [GOC

6339 Pathogen[ Q2Q067] interacts with 1 human partners:{P17947}

6340 Pathogen[ POC214] interacts with 1 human partners:{P17947}

6341 Pathogen[ P03346] interacts with 1 human partners:{P17947}

6342 Pathogen[ Q85601] interacts with 1 human partners:{P17947}

6343 Pathogen[ P03383] interacts with 1 human partners:{P17947}

6344 Pathogen[ P03410] interacts with 1 human partners:{P17947}

6345 Pathogen[ P14075] interacts with 1 human partners:{P17947}

6346 Pathogen[ POC206] interacts with 1 human partners:{P17947}

6347 Pathogen[ P03363] interacts with 1 human partners:{P17947}

6348 [Cluster 1034]GO:0018094+P biological\_process [name] protein polyglycylation [def] "The addition of glycol units covalently bound to the gamma carboxyl group peptidyl-glutamic acid." [RESID

6349 Pathogen[ P14079] interacts with 3 human partners:{Q9Y4R7;A6PVC2;Q6ZVT0}

6350 Pathogen[ P03410] interacts with 3 human partners:{Q9Y4R7;Q6ZVT0;A6PVC2}

6351 Pathogen[ POC206] interacts with 1 human partners:{Q6ZVT0}

6352 [Cluster 1035]GO:0006780+P biological\_process [name] uroporphyrinogen III biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of uroporphyrinogen III." [GOC

6353 Pathogen[ Q2Q067] interacts with 1 human partners:{P10746}

6354 Pathogen[ POC214] interacts with 1 human partners:{P10746}

6355 Pathogen[ P03346] interacts with 1 human partners:{P10746}

6356 Pathogen[ Q85601] interacts with 1 human partners:{P10746}

6357 Pathogen[ P14079] interacts with 1 human partners:{P10746}

6358 Pathogen[ P03410] interacts with 1 human partners:{P10746}

6359 Pathogen[ POC206] interacts with 1 human partners:{P10746}

6360 [Cluster 1036]GO:0007634+P biological\_process [name] optokinetic behavior [def] "The actions or reactions of an organism pertaining to movement of the eyes and of objects in the visual field, as in nystagmus." [GOC

6361 Pathogen[ Q2Q067] interacts with 1 human partners:{P49639}

6362 Pathogen[ POC214] interacts with 1 human partners:{P49639}

6363 Pathogen[ P03346] interacts with 1 human partners:{P49639}

6364 Pathogen[ Q85601] interacts with 1 human partners:{P49639}

6365 Pathogen[ P14079] interacts with 1 human partners:{P49639}

6366 Pathogen[ P03383] interacts with 1 human partners:{P49639}

6367 Pathogen[ P03410] interacts with 1 human partners:{P49639}

6368 Pathogen[ POC206] interacts with 1 human partners:{P49639}

6369 Pathogen[ P03363] interacts with 1 human partners:{P49639}

6370 [Cluster 1037]GO:0001959+P biological\_process [name] regulation of cytokine-mediated signaling pathway [def] "Any process that modulates the frequency, rate or extent of the cytokine mediated signaling pathway." [GOC

6371 Pathogen[ Q2Q067] interacts with 1 human partners:{P25063}

6372 Pathogen[ POC214] interacts with 1 human partners:{P25063}

6373 Pathogen[ P03346] interacts with 1 human partners:{P25063}

6374 Pathogen[ P14079] interacts with 2 human partners:{O43187;P25063}

6375 Pathogen[ P03383] interacts with 1 human partners:{P25063}

6376 Pathogen[ P03410] interacts with 2 human partners:{O43187;P25063}

6377 Pathogen[ P14075] interacts with 1 human partners:{P25063}

6378 Pathogen[ P0C206] interacts with 1 human partners:{P25063}

6379 [Cluster 1038]GO:0072227+P biological\_process [name] metanephric macula densa development [def] "The process whose specific outcome is the progression of the metanephric macula densa over time, from its formation to the mature structure. The metanephric macula densa is an area of specialized cells in the distal tubule of the metanephros that makes contact with the vascular pole of the glomerulus." [GOC

6380 Pathogen[ P03346] interacts with 1 human partners:{P20264}

6381 Pathogen[ P03363] interacts with 1 human partners:{P20264}

6382 [Cluster 1039]GO:0071499+P biological\_process [name] cellular response to laminar fluid shear stress [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a laminar fluid shear stress stimulus. Laminar fluid flow is the force acting on an object in a system where the fluid is moving across a solid surface in parallel layers." [GOC

6383 Pathogen[ P03346] interacts with 1 human partners:{Q12772}

6384 Pathogen[ Q85601] interacts with 1 human partners:{Q12772}

6385 Pathogen[ P14079] interacts with 2 human partners:{Q12772;Q13164}

6386 Pathogen[ P03410] interacts with 1 human partners:{Q12772}

6387 Pathogen[ P0C206] interacts with 1 human partners:{Q12772}

6388 [Cluster 1040]GO:0006435+P biological\_process [name] threonyl-tRNA aminoacylation [def] "The process of coupling threonine to threonyl-tRNA, catalyzed by threonyl-tRNA synthetase. In tRNA aminoacylation, the amino acid is first activated by linkage to AMP and then transferred to either the 2'- or the 3'-hydroxyl group of the 3'-adenosine residue of the tRNA." [GOC

6389 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BW92}

6390 Pathogen[ P0C214] interacts with 3 human partners:{P26639;A2RTX5;Q9BW92}

6391 Pathogen[ Q85601] interacts with 3 human partners:{P26639;Q9BW92;A2RTX5}

6392 Pathogen[ P14079] interacts with 3 human partners:{P26639;Q9BW92;A2RTX5}

6393 Pathogen[ P03383] interacts with 2 human partners:{A2RTX5;Q9BW92}

6394 Pathogen[ P03410] interacts with 3 human partners:{Q9BW92;P26639;A2RTX5}

6395 Pathogen[ P14075] interacts with 3 human partners:{A2RTX5;Q9BW92;P26639}

6396 Pathogen[ P0C206] interacts with 3 human partners:{A2RTX5;Q9BW92;P26639}

6397 Pathogen[ P03363] interacts with 2 human partners:{A2RTX5;Q9BW92}

6398 [Cluster 1041]GO:0007527+P biological\_process [name] adult somatic muscle development [def] "The process whose specific outcome is the progression of the adult somatic muscle over time, from its formation to the mature structure." [GOC

6399 Pathogen[ Q2Q067] interacts with 1 human partners:{O00458}

6400 Pathogen[ P0C214] interacts with 1 human partners:{O00458}

6401 Pathogen[ P03346] interacts with 1 human partners:{O00458}

6402 Pathogen[ Q85601] interacts with 1 human partners:{O00458}

6403 Pathogen[ P14079] interacts with 1 human partners:{O00458}

6404 Pathogen[ P03383] interacts with 1 human partners:{O00458}

6405 Pathogen[ P03410] interacts with 1 human partners:{O00458}

6406 Pathogen[ P14075] interacts with 1 human partners:{O00458}

6407 Pathogen[ P0C206] interacts with 1 human partners:{O00458}

6408 [Cluster 1042]GO:0090230+P biological\_process [name] regulation of centromere complex assembly [def] "Any process that modulates the rate, frequency, or extent of centromere complex assembly, the aggregation, arrangement and bonding together of proteins and centromeric DNA molecules to form a centromeric protein-DNA complex." [GOC

6409 Pathogen[ Q2Q067] interacts with 1 human partners:{P06400}

6410 Pathogen[ P0C214] interacts with 1 human partners:{P06400}

6411 Pathogen[ P03346] interacts with 1 human partners:{P06400}

6412 Pathogen[ Q85601] interacts with 1 human partners:{P06400}

6413 Pathogen[ P03383] interacts with 1 human partners:{P06400}

6414 Pathogen[ P03410] interacts with 1 human partners:{P06400}

6415 Pathogen[ P14075] interacts with 1 human partners:{P06400}

6416 Pathogen[ P0C206] interacts with 1 human partners:{P06400}

6417 Pathogen[ P03363] interacts with 1 human partners:{P06400}

6418 [Cluster 1043]GO:0090207+P biological\_process [name] regulation of triglyceride metabolic process [def] "Any process that modulates the frequency, rate or extent of the chemical reactions and pathways involving triglyceride, any triester of glycerol." [GOC

6419 Pathogen[ P14079] interacts with 1 human partners:{Q96S06}

6420 Pathogen[ P03410] interacts with 1 human partners:{Q96S06}

6421 Pathogen[ P0C206] interacts with 1 human partners:{Q96S06}

6422 [Cluster 1044]GO:0032964+P biological\_process [name] collagen biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of collagen, any of a group of fibrous proteins of very high tensile strength that form the main component of connective tissue in animals. Collagen is highly enriched in glycine (some regions are 33% glycine) and proline, occurring predominantly as 3-hydroxyproline (about 20%)." [GOC



6423 Pathogen[ P03346] interacts with 1 human partners:{Q15035}

6424 Pathogen[ Q85601] interacts with 1 human partners:{Q15035}

6425 Pathogen[ P14079] interacts with 1 human partners:{Q15035}

6426 Pathogen[ P03410] interacts with 1 human partners:{Q15035}

6427 Pathogen[ P0C206] interacts with 1 human partners:{Q15035}

6428 Pathogen[ P03363] interacts with 1 human partners:{Q15035}

6429 [Cluster 1045]GO:0016081+P biological\_process [name] synaptic vesicle docking involved in exocytosis [def] "The initial attachment of a synaptic vesicle membrane to the presynaptic membrane, mediated by proteins protruding from the membrane of the synaptic vesicle and the target membrane." [PMID

6430 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UL45}

6431 Pathogen[ P0C214] interacts with 1 human partners:{Q9UL45}

6432 Pathogen[ P03346] interacts with 1 human partners:{Q9UL45}

6433 Pathogen[ P14079] interacts with 1 human partners:{Q9UL45}

6434 Pathogen[ P03410] interacts with 1 human partners:{Q9UL45}

6435 Pathogen[ P0C206] interacts with 1 human partners:{Q9UL45}

6436 [Cluster 1046]GO:0030072+P biological\_process [name] peptide hormone secretion [def] "The regulated release of a peptide hormone from a cell or organ." [GOC

6437 Pathogen[ P14079] interacts with 2 human partners:{Q9NY59;Q86VI1}

6438 Pathogen[ P03410] interacts with 1 human partners:{Q86VI1}

6439 Pathogen[ P0C206] interacts with 1 human partners:{Q86VI1}

6440 [Cluster 1047]GO:0036304+P

6441 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9Y5J3}

6442 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y5J3}

6443 Pathogen[ P03346] interacts with 1 human partners:{Q9Y5J3}

6444 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y5J3}

6445 Pathogen[ P14079] interacts with 1 human partners:{Q9Y5J3}

6446 Pathogen[ P03410] interacts with 1 human partners:{Q9Y5J3}

6447 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y5J3}

6448 Pathogen[ P03363] interacts with 1 human partners:{Q9Y5J3}

6449 [Cluster 1048]GO:0051046+P biological\_process [name] regulation of secretion [def] "Any process that modulates the frequency, rate or extent of the controlled release of a substance from a cell or group of cells." [GOC

6450 Pathogen[ P0C214] interacts with 2 human partners:{Q9UM54;Q9Y2G5}

6451 Pathogen[ Q85601] interacts with 1 human partners:{Q9UM54}

6452 Pathogen[ P14079] interacts with 2 human partners:{Q9UM54;Q9Y2G5}

6453 Pathogen[ P03410] interacts with 2 human partners:{Q9UM54;Q9Y2G5}

6454 Pathogen[ P14075] interacts with 1 human partners:{Q9Y2G5}

6455 Pathogen[ P0C206] interacts with 2 human partners:{Q9UM54;Q9Y2G5}

6456 [Cluster 1049]GO:0048149+P biological\_process [name] behavioral response to ethanol [def] "Any process that results in a change in the behavior of an organism as a result of an ethanol stimulus." [GOC

6457 Pathogen[ P03346] interacts with 1 human partners:{Q12929}

6458 Pathogen[ P14079] interacts with 1 human partners:{Q12929}

6459 Pathogen[ P03410] interacts with 1 human partners:{Q12929}

6460 Pathogen[ P03363] interacts with 1 human partners:{Q12929}

6461 [Cluster 1050]GO:0030539+P biological\_process [name] male genitalia development [def] "The process whose specific outcome is the progression of the male genitalia over time, from its formation to the mature structure." [GOC

6462 Pathogen[ P0C214] interacts with 1 human partners:{Q9BXT5}

6463 Pathogen[ P03346] interacts with 3 human partners:{P31271;P35453;Q9BXT5}

6464 Pathogen[ Q85601] interacts with 2 human partners:{Q9BXT5;P31271}

6465 Pathogen[ P14079] interacts with 2 human partners:{Q9BXT5;P31271}

6466 Pathogen[ P03410] interacts with 1 human partners:{Q9BXT5}

6467 Pathogen[ P14075] interacts with 1 human partners:{Q9BXT5}

6468 Pathogen[ P0C206] interacts with 2 human partners:{Q9BXT5;P31271}

6469 Pathogen[ P03363] interacts with 3 human partners:{P35453;P31271;Q9BXT5}

6470 [Cluster 1051]GO:0032510+P biological\_process [name] endosome to lysosome transport via multivesicular body sorting pathway [def] "The directed movement of substances from endosomes to lysosomes by a pathway in which molecules are sorted into multivesicular bodies, which then fuse with the lysosome." [GOC

6471 Pathogen[ Q2Q067] interacts with 1 human partners:{075351}

6472 Pathogen[ P0C214] interacts with 2 human partners:{075351;Q99698}

6473 Pathogen[ P03346] interacts with 2 human partners:{Q99698;075351}

6474 Pathogen[ Q85601] interacts with 2 human partners:{075351;Q99698}

6475 Pathogen[ P14079] interacts with 2 human partners:{075351;Q99698}

6476 Pathogen[ P03410] interacts with 2 human partners:{075351;Q99698}

6477 Pathogen[ P0C206] interacts with 2 human partners:{Q99698;075351}

6478 Pathogen[ P03363] interacts with 2 human partners:{075351;Q99698}

6479 [Cluster 1052]GO:0060154+P biological\_process [name] cellular process regulating host cell cycle in response to virus [def] "Any cellular process that modulates the rate or extent of progression through the cell cycle in response to a virus." [GOC

6480 Pathogen[ P0C214] interacts with 1 human partners:{Q92934}

6481 Pathogen[ P14079] interacts with 1 human partners:{Q92934}

6482 Pathogen[ P03410] interacts with 1 human partners:{Q92934}

6483 Pathogen[ P0C206] interacts with 1 human partners:{Q92934}

6484 [Cluster 1053]GO:0044351+P biological\_process [name] macropinocytosis [def] "An endocytosis process that results in the uptake of liquid material by cells from their external environment by the 'ruffling' of the cell membrane to form heterogeneously sized intracellular vesicles called macropinosomes, which can be up to 5 micrometers in size." [PMID  
6485 Pathogen[ P14079] interacts with 1 human partners:{Q16644}  
6486 [Cluster 1054]GO:0060074+P biological\_process [name] synapse maturation [def] "The process that organizes a synapse so that it attains its fully functional state. Synaptic maturation plays a critical role in the establishment of effective synaptic connections in early development." [GOC  
6487 Pathogen[ P14079] interacts with 1 human partners:{075781}  
6488 Pathogen[ P03410] interacts with 1 human partners:{075781}  
6489 [Cluster 1055]GO:0010635+P biological\_process [name] regulation of mitochondrial fusion [def] "Any process that modulates the frequency, rate or extent of merging of two or more mitochondria within a cell to form a single compartment." [GOC  
6490 Pathogen[ Q2Q067] interacts with 1 human partners:{Q7Z2X4}  
6491 Pathogen[ P0C214] interacts with 1 human partners:{Q7Z2X4}  
6492 Pathogen[ P03346] interacts with 1 human partners:{Q7Z2X4}  
6493 Pathogen[ Q85601] interacts with 1 human partners:{Q7Z2X4}  
6494 Pathogen[ P14079] interacts with 1 human partners:{Q7Z2X4}  
6495 Pathogen[ P03410] interacts with 1 human partners:{Q7Z2X4}  
6496 Pathogen[ P0C206] interacts with 1 human partners:{Q7Z2X4}  
6497 [Cluster 1056]GO:0032527+P biological\_process [name] protein exit from endoplasmic reticulum [def] "The directed movement of proteins from the endoplasmic reticulum." [GOC  
6498 Pathogen[ P0C214] interacts with 1 human partners:{P49257}  
6499 Pathogen[ P03346] interacts with 2 human partners:{P49257;Q9BVK6}  
6500 Pathogen[ Q85601] interacts with 1 human partners:{P49257}  
6501 Pathogen[ P14079] interacts with 3 human partners:{P49257;Q9BVK6;O15260}  
6502 Pathogen[ P03410] interacts with 3 human partners:{P49257;Q9BVK6;O15260}  
6503 Pathogen[ P0C206] interacts with 3 human partners:{Q9BVK6;P49257;O15260}  
6504 [Cluster 1057]GO:0032400+P biological\_process [name] melanosome localization [def] "Any process in which a melanosome is transported to, and/or maintained in, a specific location within the cell." [GOC  
6505 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9H267}  
6506 Pathogen[ P03346] interacts with 2 human partners:{Q96AX1;Q9H267}  
6507 Pathogen[ Q85601] interacts with 1 human partners:{Q9H267}  
6508 Pathogen[ P14079] interacts with 2 human partners:{Q96AX1;Q9H267}  
6509 Pathogen[ P03410] interacts with 2 human partners:{Q9H267;Q96AX1}  
6510 Pathogen[ P0C206] interacts with 2 human partners:{Q96AX1;Q9H267}  
6511 Pathogen[ P03363] interacts with 1 human partners:{Q9H267}  
6512 [Cluster 1058]GO:0046501+P biological\_process [name] protoporphyrinogen IX metabolic process [def] "The chemical reactions and pathways involving protoporphyrinogen IX, the specific substrate for the enzyme ferrochelatase, which catalyzes the insertion of iron to form protoheme. It is probably also the substrate for chlorophyll formation." [ISBN  
6513 Pathogen[ P0C214] interacts with 1 human partners:{P22830}  
6514 Pathogen[ P14079] interacts with 1 human partners:{P22830}  
6515 Pathogen[ P03410] interacts with 1 human partners:{P22830}  
6516 Pathogen[ P0C206] interacts with 1 human partners:{P22830}  
6517 [Cluster 1059]GO:0060051+P biological\_process [name] negative regulation of protein glycosylation [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the glycosylation of one or more amino acid residues within a protein. Protein glycosylation is the addition of a sugar unit to a protein amino acid, e.g. the addition of glycan chains to proteins." [GOC  
6518 Pathogen[ P14079] interacts with 1 human partners:{O60502}  
6519 Pathogen[ P03410] interacts with 1 human partners:{O60502}  
6520 [Cluster 1060]GO:0006930+P biological\_process [name] substrate-dependent cell migration, cell extension [def] "The formation of a cell surface protrusion, such as a lamellipodium or filopodium, at the leading edge of a migrating cell." [ISBN  
6521 Pathogen[ P0C214] interacts with 1 human partners:{P35580}  
6522 Pathogen[ P03346] interacts with 1 human partners:{Q9Y5K6}  
6523 Pathogen[ Q85601] interacts with 2 human partners:{Q9Y5K6;P35580}  
6524 Pathogen[ P14079] interacts with 1 human partners:{Q9Y5K6}  
6525 Pathogen[ P03383] interacts with 1 human partners:{P35580}  
6526 Pathogen[ P03410] interacts with 2 human partners:{Q9Y5K6;P35580}  
6527 Pathogen[ P0C206] interacts with 2 human partners:{Q9Y5K6;P35580}  
6528 Pathogen[ P03363] interacts with 1 human partners:{Q9Y5K6}  
6529 [Cluster 1061]GO:0046671+P biological\_process [name] negative regulation of retinal cell programmed cell death [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of programmed cell death that occurs in the retina." [GOC  
6530 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8NDY6}  
6531 Pathogen[ P0C214] interacts with 1 human partners:{Q8NDY6}  
6532 Pathogen[ P03346] interacts with 1 human partners:{Q8NDY6}  
6533 Pathogen[ Q85601] interacts with 1 human partners:{Q8NDY6}  
6534 Pathogen[ P14079] interacts with 1 human partners:{Q8NDY6}  
6535 Pathogen[ P03410] interacts with 1 human partners:{Q8NDY6}

6536 Pathogen[ P0C206] interacts with 1 human partners:{Q8NDY6}

6537 Pathogen[ P03363] interacts with 1 human partners:{Q8NDY6}

6538 [Cluster 1062]GO:0000958+P biological\_process [name] mitochondrial mRNA catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of mRNA transcribed from the mitochondrial genome and occurring in the mitochondrion." [GOC

6539 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8TCS8}

6540 Pathogen[ P0C214] interacts with 1 human partners:{Q8TCS8}

6541 Pathogen[ P03346] interacts with 1 human partners:{Q8TCS8}

6542 Pathogen[ Q85601] interacts with 1 human partners:{Q8TCS8}

6543 Pathogen[ P14079] interacts with 1 human partners:{Q8TCS8}

6544 Pathogen[ P03383] interacts with 1 human partners:{Q8TCS8}

6545 Pathogen[ P03410] interacts with 1 human partners:{Q8TCS8}

6546 Pathogen[ P14075] interacts with 1 human partners:{Q8TCS8}

6547 Pathogen[ P0C206] interacts with 1 human partners:{Q8TCS8}

6548 [Cluster 1063]GO:0045627+P biological\_process [name] positive regulation of T-helper 1 cell differentiation [def] "Any process that activates or increases the frequency, rate or extent of T-helper 1 cell differentiation." [GOC

6549 Pathogen[ P03346] interacts with 2 human partners:{Q14774;O75159}

6550 Pathogen[ P03363] interacts with 1 human partners:{O75159}

6551 [Cluster 1064]GO:0032754+P biological\_process [name] positive regulation of interleukin-5 production [def] "Any process that activates or increases the frequency, rate, or extent of interleukin-5 production." [GOC

6552 Pathogen[ P14079] interacts with 1 human partners:{O95760}

6553 Pathogen[ P03410] interacts with 1 human partners:{O95760}

6554 [Cluster 1065]GO:0046654+P biological\_process [name] tetrahydrofolate biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of tetrahydrofolate, 5,6,7,8-tetrahydrofolic acid, a folate derivative bearing additional hydrogens on the pterin group." [ISBN

6555 Pathogen[ Q2Q067] interacts with 1 human partners:{P30793}

6556 Pathogen[ P0C214] interacts with 3 human partners:{Q86XF0;P00374;P30793}

6557 Pathogen[ Q85601] interacts with 1 human partners:{P30793}

6558 Pathogen[ P14079] interacts with 3 human partners:{Q86XF0;P00374;P30793}

6559 Pathogen[ P03410] interacts with 3 human partners:{P00374;P30793;Q86XF0}

6560 Pathogen[ P14075] interacts with 1 human partners:{P30793}

6561 Pathogen[ P0C206] interacts with 1 human partners:{P30793}

6562 [Cluster 1066]GO:1901233+P

6563 Pathogen[ P03346] interacts with 1 human partners:{Q969G9}

6564 Pathogen[ P03410] interacts with 1 human partners:{Q969G9}

6565 Pathogen[ P0C206] interacts with 1 human partners:{Q969G9}

6566 Pathogen[ P03363] interacts with 1 human partners:{Q969G9}

6567 [Cluster 1067]GO:0060435+P biological\_process [name] bronchiole development [def] "The biological process whose specific outcome is the progression of a bronchiole from an initial condition to its mature state. This process begins with the formation of the bronchiole and ends with the mature structure. A bronchiole is the first airway branch that no longer contains cartilage\_ it is a branch of the bronchi." [GOC

6568 Pathogen[ Q2Q067] interacts with 1 human partners:{P20719}

6569 Pathogen[ P03346] interacts with 2 human partners:{P20719;O43680}

6570 Pathogen[ P0C206] interacts with 1 human partners:{P20719}

6571 Pathogen[ P03363] interacts with 1 human partners:{P20719}

6572 [Cluster 1068]GO:0060613+P biological\_process [name] fat pad development [def] "The progression of a fat pad from its initial formation to its mature structure. A fat pad is an accumulation of adipose tissue." [GOC

6573 Pathogen[ Q2Q067] interacts with 1 human partners:{Q14865}

6574 Pathogen[ P0C214] interacts with 1 human partners:{Q14865}

6575 Pathogen[ P03346] interacts with 1 human partners:{Q14865}

6576 Pathogen[ Q85601] interacts with 1 human partners:{Q14865}

6577 Pathogen[ P14079] interacts with 1 human partners:{Q14865}

6578 Pathogen[ P03410] interacts with 1 human partners:{Q14865}

6579 Pathogen[ P0C206] interacts with 1 human partners:{Q14865}

6580 Pathogen[ P03363] interacts with 1 human partners:{Q14865}

6581 [Cluster 1069]GO:0050801+P biological\_process [name] ion homeostasis [def] "Any process involved in the maintenance of an internal steady state of ions within an organism or cell." [GOC

6582 Pathogen[ P03346] interacts with 1 human partners:{P16452}

6583 Pathogen[ P14079] interacts with 1 human partners:{P16452}

6584 Pathogen[ P03410] interacts with 1 human partners:{P16452}

6585 Pathogen[ P0C206] interacts with 1 human partners:{P16452}

6586 Pathogen[ P03363] interacts with 1 human partners:{P16452}

6587 [Cluster 1070]GO:0072061+P biological\_process [name] inner medullary collecting duct development [def] "The process whose specific outcome is the progression of the inner medullary collecting duct over time, from its formation to the mature structure. The inner medullary collecting duct is the portion of the collecting duct that lies in the renal inner medulla." [GOC

6588 Pathogen[ P0C214] interacts with 1 human partners:{Q5SW24}

6589 Pathogen[ Q85601] interacts with 1 human partners:{Q5SW24}

6590 Pathogen[ P14079] interacts with 1 human partners:{Q5SW24}

6591 Pathogen[ P03410] interacts with 1 human partners:{Q5SW24}

6592 Pathogen[ P0C206] interacts with 1 human partners:{Q5SW24}

6593 [Cluster 1071]GO:0010999+P biological\_process [name] regulation of eIF2 alpha phosphorylation by heme [def] "Any process that modulates the rate, frequency, or extent of eIF2 alpha phosphorylation as a result of heme levels." [GOC

6594 Pathogen[ P0C214] interacts with 1 human partners:{P22830}

6595 Pathogen[ P14079] interacts with 1 human partners:{P22830}

6596 Pathogen[ P03410] interacts with 1 human partners:{P22830}

6597 Pathogen[ P0C206] interacts with 1 human partners:{P22830}

6598 [Cluster 1072]GO:0060081+P biological\_process [name] membrane hyperpolarization [def] "The process in which membrane potential changes in the hyperpolarizing direction from the resting potential, usually from negative to more negative." [GOC

6599 Pathogen[ Q2Q067] interacts with 1 human partners:{Q99497}

6600 Pathogen[ P0C214] interacts with 1 human partners:{Q99497}

6601 Pathogen[ P03346] interacts with 1 human partners:{Q99497}

6602 Pathogen[ Q85601] interacts with 1 human partners:{Q99497}

6603 Pathogen[ P14079] interacts with 1 human partners:{Q99497}

6604 Pathogen[ P03410] interacts with 1 human partners:{Q99497}

6605 Pathogen[ P0C206] interacts with 1 human partners:{Q99497}

6606 [Cluster 1073]GO:0030301+P biological\_process [name] cholesterol transport [def] "The directed movement of cholesterol, cholest-5-en-3-beta-ol, into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore." [GOC

6607 Pathogen[ Q2Q067] interacts with 1 human partners:{O75351}

6608 Pathogen[ P0C214] interacts with 1 human partners:{O75351}

6609 Pathogen[ P03346] interacts with 1 human partners:{O75351}

6610 Pathogen[ Q85601] interacts with 1 human partners:{O75351}

6611 Pathogen[ P14079] interacts with 1 human partners:{O75351}

6612 Pathogen[ P03410] interacts with 1 human partners:{O75351}

6613 Pathogen[ P0C206] interacts with 1 human partners:{O75351}

6614 Pathogen[ P03363] interacts with 1 human partners:{O75351}

6615 [Cluster 1074]GO:0051066+P biological\_process [name] dihydrobiopterin metabolic process [def] "The chemical reactions and pathways involving a dihydrobiopterin, a reduced pteridine derivative related to folic acid\_ it acts as an electron carrier in tyrosine biosynthesis and its quinoid form is produced by oxidation of tetrahydrobiopterin in several biological hydroxylation reactions." [CHEBI

6616 Pathogen[ Q2Q067] interacts with 1 human partners:{P30793}

6617 Pathogen[ P0C214] interacts with 2 human partners:{P09417;P30793}

6618 Pathogen[ Q85601] interacts with 1 human partners:{P30793}

6619 Pathogen[ P14079] interacts with 1 human partners:{P30793}

6620 Pathogen[ P03410] interacts with 1 human partners:{P30793}

6621 Pathogen[ P14075] interacts with 1 human partners:{P30793}

6622 Pathogen[ P0C206] interacts with 1 human partners:{P30793}

6623 [Cluster 1075]GO:0002686+P biological\_process [name] negative regulation of leukocyte migration [def] "Any process that stops, prevents, or reduces the frequency, rate, or extent of leukocyte migration." [GOC

6624 Pathogen[ Q2Q067] interacts with 1 human partners:{P31268}

6625 Pathogen[ P03346] interacts with 1 human partners:{P31268}

6626 Pathogen[ P14079] interacts with 1 human partners:{O95760}

6627 Pathogen[ P03410] interacts with 1 human partners:{O95760}

6628 Pathogen[ P0C206] interacts with 1 human partners:{P31268}

6629 Pathogen[ P03363] interacts with 1 human partners:{P31268}

6630 [Cluster 1076]GO:2000401+P biological\_process [name] regulation of lymphocyte migration [def] "Any process that modulates the frequency, rate or extent of lymphocyte migration." [GOC

6631 Pathogen[ P03346] interacts with 1 human partners:{P26038}

6632 Pathogen[ P14079] interacts with 1 human partners:{P26038}

6633 Pathogen[ P03410] interacts with 1 human partners:{P26038}

6634 [Cluster 1077]GO:0019264+P biological\_process [name] glycine biosynthetic process from serine [def] "The chemical reactions and pathways resulting in the formation of glycine from other compounds, including serine." [GOC

6635 Pathogen[ Q2Q067] interacts with 1 human partners:{P34896}

6636 Pathogen[ P0C214] interacts with 2 human partners:{P34897;P34896}

6637 Pathogen[ Q85601] interacts with 1 human partners:{P34896}

6638 Pathogen[ P14079] interacts with 2 human partners:{P34897;P34896}

6639 Pathogen[ P03383] interacts with 1 human partners:{P34896}

6640 Pathogen[ P03410] interacts with 2 human partners:{P34897;P34896}

6641 Pathogen[ P14075] interacts with 1 human partners:{P34896}

6642 Pathogen[ P0C206] interacts with 2 human partners:{P34897;P34896}

6643 [Cluster 1078]GO:0006658+P biological\_process [name] phosphatidylserine metabolic process [def] "The chemical reactions and pathways involving phosphatidylserines, any of a class of glycerophospholipids in which the phosphatidyl group is esterified to the hydroxyl group of L-serine. They are important constituents of cell membranes." [ISBN

6644 Pathogen[ P14079] interacts with 2 human partners:{Q86VE9;Q9NRX5}

6645 Pathogen[ P03410] interacts with 2 human partners:{Q86VE9;Q9NRX5}

6646 [Cluster 1079]GO:0006546+P biological\_process [name] glycine catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of glycine,

aminoethanoic acid." [GOC  
6647 Pathogen[ P0C214] interacts with 5 human partners:{P48728;Q8NCN5;Q9UI17;Q5T440;Q9UL12}  
6648 Pathogen[ P03346] interacts with 3 human partners:{Q8NCN5;Q5T440;P48728}  
6649 Pathogen[ P14079] interacts with 7 human partners:{P23434;P48728;Q9UL12;Q9NX38;Q9UI17;Q8NCN5;Q5T440}  
6650 Pathogen[ P03410] interacts with 7 human partners:{Q9NX38;Q9UI17;Q5T440;Q9UL12;P23434;P48728;Q8NCN5}  
6651 Pathogen[ P14075] interacts with 3 human partners:{Q5T440;Q8NCN5;P48728}  
6652 Pathogen[ P0C206] interacts with 4 human partners:{P23434;Q5T440;Q8NCN5;P48728}  
6653 Pathogen[ P03363] interacts with 1 human partners:{P48728}  
6654 [Cluster 1080]GO:0042628+P biological\_process [name] mating plug formation [def] "The deposition of a plug of sperm or other gelatinous material into the opening of the vulva by a male at the termination of copulation. Probably acts to prevent subsequent matings by other males." [GOC  
6655 Pathogen[ P0C214] interacts with 1 human partners:{P07093}  
6656 Pathogen[ Q85601] interacts with 1 human partners:{P07093}  
6657 [Cluster 1081]GO:0003149+P biological\_process [name] membranous septum morphogenesis [def] "The process in which the membranous septum is generated and organized. The membranous septum is the upper part of ventricular septum." [GOC  
6658 Pathogen[ Q2Q067] interacts with 1 human partners:{O96028}  
6659 Pathogen[ P0C214] interacts with 1 human partners:{O96028}  
6660 Pathogen[ P03346] interacts with 1 human partners:{O96028}  
6661 Pathogen[ Q85601] interacts with 1 human partners:{O96028}  
6662 Pathogen[ P0C206] interacts with 1 human partners:{O96028}  
6663 Pathogen[ P03363] interacts with 1 human partners:{O96028}  
6664 [Cluster 1082]GO:0051797+P biological\_process [name] regulation of hair follicle development [def] "Any process that modulates the frequency, rate or extent of hair follicle development." [GOC  
6665 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13485}  
6666 Pathogen[ P0C214] interacts with 1 human partners:{Q13485}  
6667 Pathogen[ P03346] interacts with 1 human partners:{Q13485}  
6668 Pathogen[ Q85601] interacts with 1 human partners:{Q13485}  
6669 Pathogen[ P03383] interacts with 1 human partners:{Q13485}  
6670 Pathogen[ P03410] interacts with 1 human partners:{Q13485}  
6671 Pathogen[ P14075] interacts with 1 human partners:{Q13485}  
6672 Pathogen[ P0C206] interacts with 1 human partners:{Q13485}  
6673 Pathogen[ P03363] interacts with 1 human partners:{Q13485}  
6674 [Cluster 1083]GO:0046105+P biological\_process [name] thymidine biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of thymidine, deoxyribosylthymine thymine 2-deoxyriboside, a deoxynucleoside very widely distributed but occurring almost entirely as phosphoric esters in deoxynucleotides and deoxyribonucleic acid, DNA." [GOC  
6675 Pathogen[ P0C214] interacts with 1 human partners:{Q86XF0}  
6676 Pathogen[ P14079] interacts with 1 human partners:{Q86XF0}  
6677 Pathogen[ P03410] interacts with 1 human partners:{Q86XF0}  
6678 [Cluster 1084]GO:1901231+P  
6679 Pathogen[ P03346] interacts with 1 human partners:{Q969G9}  
6680 Pathogen[ P03410] interacts with 1 human partners:{Q969G9}  
6681 Pathogen[ P0C206] interacts with 1 human partners:{Q969G9}  
6682 Pathogen[ P03363] interacts with 1 human partners:{Q969G9}  
6683 [Cluster 1085]GO:0002063+P biological\_process [name] chondrocyte development [def] "The process whose specific outcome is the progression of a chondrocyte over time, from its commitment to its mature state. Chondrocyte development does not include the steps involved in committing a chondroblast to a chondrocyte fate." [GOC  
6684 Pathogen[ Q2Q067] interacts with 1 human partners:{P35548}  
6685 Pathogen[ P0C214] interacts with 1 human partners:{P35548}  
6686 Pathogen[ P03346] interacts with 1 human partners:{P35548}  
6687 Pathogen[ Q85601] interacts with 1 human partners:{P35548}  
6688 Pathogen[ P03383] interacts with 1 human partners:{P35548}  
6689 Pathogen[ P03410] interacts with 1 human partners:{P35548}  
6690 Pathogen[ P14075] interacts with 1 human partners:{P35548}  
6691 Pathogen[ P0C206] interacts with 1 human partners:{P35548}  
6692 Pathogen[ P03363] interacts with 1 human partners:{P35548}  
6693 [Cluster 1086]GO:0071918+P biological\_process [name] urea transmembrane transport [def] "The process in which urea, the water-soluble compound H2N-CO-NH2, is transported from one side of a membrane to the other by means of some agent such as a transporter or pore." [GOC  
6694 Pathogen[ P14079] interacts with 1 human partners:{Q15849}  
6695 Pathogen[ P03410] interacts with 2 human partners:{Q13336;Q15849}  
6696 Pathogen[ P0C206] interacts with 1 human partners:{Q15849}  
6697 [Cluster 1087]GO:0030576+P biological\_process [name] Cajal body organization [def] "A process that is carried out at the cellular level which results in the assembly, arrangement of constituent parts, or disassembly of Cajal bodies, nuclear bodies that appear ultrastructurally as a tangle of coiled, electron-dense threads roughly 0.5 micrometers in diameter and are enriched in ribonucleoproteins, and certain general RNA

polymerase II transcription factors." [GOC  
6698 Pathogen[ P14079] interacts with 1 human partners:{Q5W0Q7}  
6699 [Cluster 1088]GO:0051047+P biological\_process [name] positive regulation of secretion  
[def] "Any process that activates or increases the frequency, rate or extent of the  
controlled release of a substance from a cell or group of cells." [GOC  
6700 Pathogen[ P14079] interacts with 2 human partners:{Q9Y6U3;Q9GZZ8}  
6701 Pathogen[ P03410] interacts with 2 human partners:{Q9GZZ8;Q9Y6U3}  
6702 Pathogen[ P14075] interacts with 1 human partners:{Q9GZZ8}  
6703 [Cluster 1089]GO:0010811+P biological\_process [name] positive regulation of  
cell-substrate adhesion [def] "Any process that increases the frequency, rate or extent  
of cell-substrate adhesion. Cell-substrate adhesion is the attachment of a cell to the  
underlying substrate via adhesion molecules." [GOC  
6704 Pathogen[ Q2Q067] interacts with 1 human partners:{P49593}  
6705 Pathogen[ P0C214] interacts with 2 human partners:{P49593;P36404}  
6706 Pathogen[ P03346] interacts with 2 human partners:{P49593;P36404}  
6707 Pathogen[ Q85601] interacts with 1 human partners:{P49593}  
6708 Pathogen[ P14079] interacts with 2 human partners:{P49593;Q13316}  
6709 Pathogen[ P03410] interacts with 2 human partners:{P49593;Q13316}  
6710 Pathogen[ P0C206] interacts with 2 human partners:{Q13316;P49593}  
6711 [Cluster 1090]GO:0040037+P biological\_process [name] negative regulation of fibroblast  
growth factor receptor signaling pathway [def] "Any process that stops, prevents, or  
reduces the frequency, rate or extent of fibroblast growth factor receptor signaling  
pathway activity." [GOC  
6712 Pathogen[ P14079] interacts with 1 human partners:{O43597}  
6713 Pathogen[ P03410] interacts with 1 human partners:{O43597}  
6714 Pathogen[ P0C206] interacts with 1 human partners:{O43597}  
6715 [Cluster 1091]GO:0060037+P biological\_process [name] pharyngeal system development  
[def] "The process whose specific outcome is the progression of the pharyngeal system  
over time, from its formation to the mature structure. The pharyngeal system is a  
transient embryonic complex that is specific to vertebrates. It comprises the pharyngeal  
arches, bulges of tissues of mesoderm and neural crest derivation through which pass  
nerves and pharyngeal arch arteries. The arches are separated internally by pharyngeal  
pouches, evaginations of foregut endoderm, and externally by pharyngeal clefts,  
invaginations of surface ectoderm. The development of the system ends when the structure  
it contributes to are forming  
6716 Pathogen[ Q2Q067] interacts with 1 human partners:{Q99502}  
6717 Pathogen[ P0C214] interacts with 1 human partners:{Q99502}  
6718 Pathogen[ P03346] interacts with 2 human partners:{Q99502;Q15475}  
6719 Pathogen[ Q85601] interacts with 1 human partners:{Q99502}  
6720 Pathogen[ P14079] interacts with 1 human partners:{Q99502}  
6721 Pathogen[ P03410] interacts with 1 human partners:{Q99502}  
6722 Pathogen[ P14075] interacts with 1 human partners:{Q99502}  
6723 Pathogen[ P0C206] interacts with 1 human partners:{Q99502}  
6724 [Cluster 1092]GO:0031394+P biological\_process [name] positive regulation of  
prostaglandin biosynthetic process [def] "Any process that activates or increases the  
frequency, rate or extent of the chemical reactions and pathways resulting in the  
formation of prostaglandin." [GOC  
6725 Pathogen[ P14079] interacts with 1 human partners:{P04083}  
6726 [Cluster 1093]GO:0009893+P biological\_process [name] positive regulation of metabolic  
process [def] "Any process that activates or increases the frequency, rate or extent of  
the chemical reactions and pathways within a cell or an organism." [GOC  
6727 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96I23}  
6728 Pathogen[ P03346] interacts with 1 human partners:{Q96I23}  
6729 Pathogen[ P14079] interacts with 1 human partners:{Q96I23}  
6730 Pathogen[ P03383] interacts with 1 human partners:{Q96I23}  
6731 Pathogen[ P03410] interacts with 1 human partners:{Q96I23}  
6732 Pathogen[ P14075] interacts with 1 human partners:{Q96I23}  
6733 Pathogen[ P0C206] interacts with 1 human partners:{Q96I23}  
6734 Pathogen[ P03363] interacts with 1 human partners:{Q96I23}  
6735 [Cluster 1094]GO:0016339+P biological\_process [name] calcium-dependent cell-cell  
adhesion [def] "The attachment of one cell to another cell via adhesion molecules  
that require the presence of calcium for the interaction." [GOC  
6736 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96IF1}  
6737 Pathogen[ P03346] interacts with 1 human partners:{Q96IF1}  
6738 Pathogen[ Q85601] interacts with 1 human partners:{Q96IF1}  
6739 Pathogen[ P14079] interacts with 1 human partners:{Q96IF1}  
6740 Pathogen[ P03410] interacts with 1 human partners:{Q96IF1}  
6741 Pathogen[ P0C206] interacts with 1 human partners:{Q96IF1}  
6742 Pathogen[ P03363] interacts with 1 human partners:{Q96IF1}  
6743 [Cluster 1095]GO:0006784+P biological\_process [name] heme a biosynthetic process  
[def] "The chemical reactions and pathways resulting in the formation of heme a, a  
derivative of heme found in cytochrome aa3." [CHEBI  
6744 Pathogen[ P14079] interacts with 1 human partners:{Q12887}  
6745 Pathogen[ P03410] interacts with 1 human partners:{Q12887}  
6746 [Cluster 1096]GO:0033590+P biological\_process [name] response to cobalamin [def]  
"Any process that results in a change in state or activity of a cell or an organism (in

terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a cobalamin (vitamin B12) stimulus." [GOC

6747 Pathogen[ Q2Q067] interacts with 1 human partners:{Q04206}

6748 Pathogen[ P0C214] interacts with 1 human partners:{Q04206}

6749 Pathogen[ P03346] interacts with 1 human partners:{Q04206}

6750 Pathogen[ Q85601] interacts with 1 human partners:{Q04206}

6751 Pathogen[ P03383] interacts with 1 human partners:{Q04206}

6752 Pathogen[ P03410] interacts with 1 human partners:{Q04206}

6753 Pathogen[ P14075] interacts with 1 human partners:{Q04206}

6754 Pathogen[ P0C206] interacts with 1 human partners:{Q04206}

6755 Pathogen[ P03363] interacts with 1 human partners:{Q04206}

6756 [Cluster 1097]GO:0034401+P biological\_process [name] regulation of transcription by chromatin organization [def] "Any cellular process that results in the specification, formation or maintenance of the physical structure of eukaryotic chromatin that modulates the rate, frequency or extent of DNA-dependent transcription." [GOC

6757 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13363}

6758 Pathogen[ P0C214] interacts with 1 human partners:{Q13363}

6759 Pathogen[ P03346] interacts with 1 human partners:{Q13363}

6760 Pathogen[ Q85601] interacts with 1 human partners:{Q13363}

6761 Pathogen[ P03383] interacts with 1 human partners:{Q13363}

6762 Pathogen[ P14075] interacts with 1 human partners:{Q13363}

6763 Pathogen[ P0C206] interacts with 1 human partners:{Q13363}

6764 Pathogen[ P03363] interacts with 1 human partners:{Q13363}

6765 [Cluster 1098]GO:0006545+P biological\_process [name] glycine biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of glycine, aminoethanoic acid." [GOC

6766 Pathogen[ Q2Q067] interacts with 1 human partners:{P34896}

6767 Pathogen[ P0C214] interacts with 4 human partners:{Q86XF0;P34897;P00374;P34896}

6768 Pathogen[ Q85601] interacts with 1 human partners:{P34896}

6769 Pathogen[ P14079] interacts with 4 human partners:{Q86XF0;P00374;P34897;P34896}

6770 Pathogen[ P03383] interacts with 1 human partners:{P34896}

6771 Pathogen[ P03410] interacts with 4 human partners:{P00374;Q86XF0;P34897;P34896}

6772 Pathogen[ P14075] interacts with 1 human partners:{P34896}

6773 Pathogen[ P0C206] interacts with 2 human partners:{P34897;P34896}

6774 [Cluster 1099]GO:0033512+P biological\_process [name] L-lysine catabolic process to acetyl-CoA via saccharopine [def] "The chemical reactions and pathways resulting in the breakdown of L-lysine into other compounds, including acetyl-CoA, via the intermediate saccharopine." [GOC

6775 Pathogen[ P0C214] interacts with 1 human partners:{P36957}

6776 [Cluster 1100]GO:0060327+P biological\_process [name] cytoplasmic actin-based contraction involved in cell motility [def] "The actin filament-based movement by which cytoplasmic actin filaments slide past one another resulting in a contraction that propels the cell from one place to another." [GOC

6777 Pathogen[ P14079] interacts with 1 human partners:{P09327}

6778 [Cluster 1101]GO:0021800+P biological\_process [name] cerebral cortex tangential migration [def] "The migration of cells in the cerebral cortex in which cells move orthogonally to the direction of radial migration and do not use radial glial cell processes as substrates for migration." [GO\_REF

6779 Pathogen[ P03346] interacts with 1 human partners:{Q96QS3}

6780 Pathogen[ P03363] interacts with 1 human partners:{Q96QS3}

6781 [Cluster 1102]GO:0032320+P biological\_process [name] positive regulation of Ras GTPase activity [def] "Any process that activates or increases the activity of a GTPase of the Ras superfamily." [GOC

6782 Pathogen[ P03410] interacts with 1 human partners:{Q15283}

6783 [Cluster 1103]GO:0055108+P biological\_process [name] Golgi to transport vesicle transport [def] "The directed movement of proteins from the Golgi to a transport vesicle. Continuously secreted proteins are sorted into transport vesicles that fuse with the plasma membrane, releasing their contents by exocytosis." [GOC

6784 Pathogen[ P03346] interacts with 1 human partners:{Q96A65}

6785 Pathogen[ Q85601] interacts with 1 human partners:{Q96A65}

6786 Pathogen[ P14079] interacts with 1 human partners:{Q96A65}

6787 Pathogen[ P03410] interacts with 1 human partners:{Q96A65}

6788 Pathogen[ P0C206] interacts with 1 human partners:{Q96A65}

6789 Pathogen[ P03363] interacts with 1 human partners:{Q96A65}

6790 [Cluster 1104]GO:0006012+P biological\_process [name] galactose metabolic process [def] "The chemical reactions and pathways involving galactose, the aldohexose galacto-hexose. D-galactose is widely distributed in combined form in plants, animals and microorganisms as a constituent of oligo- and polysaccharides\_ it also occurs in galactolipids and as its glucoside in lactose and melibiose." [ISBN

6791 Pathogen[ Q2Q067] interacts with 1 human partners:{P07902}

6792 Pathogen[ P0C214] interacts with 1 human partners:{P07902}

6793 Pathogen[ Q85601] interacts with 1 human partners:{P07902}

6794 Pathogen[ P14079] interacts with 1 human partners:{P07902}

6795 Pathogen[ P03383] interacts with 1 human partners:{P07902}

6796 Pathogen[ P03410] interacts with 1 human partners:{P07902}

6797 Pathogen[ P14075] interacts with 1 human partners:{P07902}

6798 Pathogen[ POC206] interacts with 1 human partners:{P07902}

6799 [Cluster 1105]GO:0034379+P biological\_process [name] very-low-density lipoprotein particle assembly [def] "The aggregation and arrangement of proteins and lipids in the liver to form a very-low-density lipoprotein particle." [GOC

6800 Pathogen[ POC214] interacts with 1 human partners:{P22830}

6801 Pathogen[ P14079] interacts with 1 human partners:{P22830}

6802 Pathogen[ P03410] interacts with 1 human partners:{P22830}

6803 Pathogen[ POC206] interacts with 1 human partners:{P22830}

6804 [Cluster 1106]GO:0009607+P biological\_process [name] response to biotic stimulus [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a biotic stimulus, a stimulus caused or produced by a living organism." [GOC

6805 Pathogen[ P14079] interacts with 3 human partners:{P13164;Q8IXB3;B4DJY2}

6806 Pathogen[ P03410] interacts with 2 human partners:{B4DJY2;Q8IXB3}

6807 [Cluster 1107]GO:0032055+P biological\_process [name] negative regulation of translation in response to stress [def] "Any process that stops, prevents or reduces the rate of translation as a result of a stimulus indicating the organism is under stress." [GOC

6808 Pathogen[ P03346] interacts with 1 human partners:{Q9BWF3}

6809 Pathogen[ P03363] interacts with 1 human partners:{Q9BWF3}

6810 [Cluster 1108]GO:2001054+P biological\_process [name] negative regulation of mesenchymal cell apoptosis [def] "Any process that stops, prevents or reduces the frequency, rate or extent of mesenchymal cell apoptosis." [GOC

6811 Pathogen[ P03346] interacts with 1 human partners:{P49335}

6812 Pathogen[ P03363] interacts with 1 human partners:{P49335}

6813 [Cluster 1109]GO:0045777+P biological\_process [name] positive regulation of blood pressure [def] "Any process in which the force of blood traveling through the circulatory system is increased." [GOC

6814 Pathogen[ P14079] interacts with 1 human partners:{Q9UHF0}

6815 Pathogen[ P03410] interacts with 1 human partners:{Q9UHF0}

6816 [Cluster 1110]GO:0006769+P biological\_process [name] nicotinamide metabolic process [def] "The chemical reactions and pathways involving nicotinamide, pyridine-3-carboxamide, the amide of nicotinic acid. It is a member of the B complex of vitamins and occurs widely in living organisms." [ISBN

6817 Pathogen[ Q2Q067] interacts with 1 human partners:{Q6XQN6}

6818 Pathogen[ POC214] interacts with 2 human partners:{Q6XQN6;P43490}

6819 Pathogen[ P03346] interacts with 1 human partners:{Q6XQN6}

6820 Pathogen[ Q85601] interacts with 1 human partners:{Q6XQN6}

6821 Pathogen[ P14079] interacts with 2 human partners:{P43490;Q6XQN6}

6822 Pathogen[ P03410] interacts with 2 human partners:{Q6XQN6;P43490}

6823 Pathogen[ P14075] interacts with 1 human partners:{Q6XQN6}

6824 Pathogen[ POC206] interacts with 2 human partners:{Q6XQN6;P43490}

6825 Pathogen[ P03363] interacts with 1 human partners:{Q6XQN6}

6826 [Cluster 1111]GO:0003166+P biological\_process [name] bundle of His development [def] "The process whose specific outcome is the progression of the bundle of His over time, from its formation to the mature structure. The bundle of His is part of the His-Purkinje system that transmits signals from the AV node to the cardiac Purkinje fibers." [GOC

6827 Pathogen[ P03346] interacts with 1 human partners:{Q99593}

6828 [Cluster 1112]GO:0033687+P biological\_process [name] osteoblast proliferation [def] "The multiplication or reproduction of osteoblasts, resulting in the expansion of an osteoblast cell population. An osteoblast is a bone-forming cell which secretes an extracellular matrix. Hydroxyapatite crystals are then deposited into the matrix to form bone." [GOC

6829 Pathogen[ POC214] interacts with 1 human partners:{P17275}

6830 Pathogen[ P03346] interacts with 1 human partners:{P17275}

6831 Pathogen[ Q85601] interacts with 1 human partners:{P17275}

6832 Pathogen[ P14079] interacts with 1 human partners:{P17275}

6833 Pathogen[ P03383] interacts with 1 human partners:{P17275}

6834 Pathogen[ P03410] interacts with 1 human partners:{P17275}

6835 Pathogen[ P14075] interacts with 1 human partners:{P17275}

6836 Pathogen[ POC206] interacts with 1 human partners:{P17275}

6837 Pathogen[ P03363] interacts with 1 human partners:{P17275}

6838 [Cluster 1113]GO:0051025+P biological\_process [name] negative regulation of immunoglobulin secretion [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the regulated release of immunoglobulins from a cell or group of cells." [GOC

6839 Pathogen[ P14079] interacts with 1 human partners:{O95760}

6840 Pathogen[ P03410] interacts with 1 human partners:{O95760}

6841 [Cluster 1114]GO:0042265+P biological\_process [name] peptidyl-asparagine hydroxylation [def] "The hydroxylation of peptidyl-asparagine to form peptidyl-hydroxyasparagine." [GOC

6842 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NWT6}

6843 Pathogen[ POC214] interacts with 1 human partners:{Q9NWT6}

6844 Pathogen[ P03346] interacts with 1 human partners:{Q9NWT6}

6845 Pathogen[ Q85601] interacts with 1 human partners:{Q9NWT6}



6846 Pathogen[ P14079] interacts with 1 human partners:{Q9NWT6}

6847 Pathogen[ P03383] interacts with 1 human partners:{Q9NWT6}

6848 Pathogen[ P03410] interacts with 1 human partners:{Q9NWT6}

6849 Pathogen[ P14075] interacts with 1 human partners:{Q9NWT6}

6850 Pathogen[ P0C206] interacts with 1 human partners:{Q9NWT6}

6851 [Cluster 1115]GO:0043068+P biological\_process [name] positive regulation of programmed cell death [def] "Any process that activates or increases the frequency, rate or extent of programmed cell death, cell death resulting from activation of endogenous cellular processes." [GOC

6852 Pathogen[ Q2Q067] interacts with 1 human partners:{P38936}

6853 Pathogen[ P0C214] interacts with 1 human partners:{P38936}

6854 Pathogen[ P03346] interacts with 1 human partners:{P38936}

6855 Pathogen[ Q85601] interacts with 1 human partners:{P38936}

6856 Pathogen[ P14079] interacts with 1 human partners:{P38936}

6857 Pathogen[ P03410] interacts with 1 human partners:{P38936}

6858 Pathogen[ P0C206] interacts with 1 human partners:{P38936}

6859 [Cluster 1116]GO:0050865+P biological\_process [name] regulation of cell activation [def] "Any process that modulates the frequency, rate or extent of cell activation, the change in the morphology or behavior of a cell resulting from exposure to an activating factor such as a cellular or soluble ligand." [GOC

6860 Pathogen[ P03346] interacts with 1 human partners:{P61968}

6861 Pathogen[ Q85601] interacts with 1 human partners:{P61968}

6862 Pathogen[ P0C206] interacts with 1 human partners:{P61968}

6863 [Cluster 1117]GO:0009083+P biological\_process [name] branched chain family amino acid catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of amino acids containing a branched carbon skeleton, comprising isoleucine, leucine and valine." [GOC

6864 Pathogen[ Q2Q067] interacts with 1 human partners:{P21953}

6865 Pathogen[ P0C214] interacts with 6 human partners:{P12694;P21953;O15382;Q6NVY1;P09622;P54687}

6866 Pathogen[ Q85601] interacts with 2 human partners:{P21953;O15382}

6867 Pathogen[ P14079] interacts with 2 human partners:{P21953;O15382}

6868 Pathogen[ P03410] interacts with 4 human partners:{P12694;Q6NVY1;P21953;O15382}

6869 Pathogen[ P0C206] interacts with 2 human partners:{O15382;P21953}

6870 [Cluster 1118]GO:0014068+P biological\_process [name] positive regulation of phosphatidylinositol 3-kinase cascade [def] "Any process that activates or increases the frequency, rate or extent of signal transduction mediated by the phosphatidylinositol 3-kinase cascade." [GOC

6871 Pathogen[ Q2Q067] interacts with 2 human partners:{Q05086;P22681}

6872 Pathogen[ P0C214] interacts with 2 human partners:{P22681;Q05086}

6873 Pathogen[ P03346] interacts with 2 human partners:{P22681;Q05086}

6874 Pathogen[ Q85601] interacts with 2 human partners:{P22681;Q05086}

6875 Pathogen[ P0C206] interacts with 2 human partners:{Q05086;P22681}

6876 Pathogen[ P03363] interacts with 2 human partners:{P22681;Q05086}

6877 [Cluster 1119]GO:0071248+P biological\_process [name] cellular response to metal ion [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a metal ion stimulus." [GOC

6878 Pathogen[ P0C214] interacts with 1 human partners:{O95633}

6879 Pathogen[ P03346] interacts with 1 human partners:{O95633}

6880 Pathogen[ P0C206] interacts with 1 human partners:{O95633}

6881 [Cluster 1120]GO:0045716+P biological\_process [name] positive regulation of low-density lipoprotein particle receptor biosynthetic process [def] "Any process that activates or increases the frequency, rate or extent of the chemical reactions and pathways resulting in the formation of low-density lipoprotein receptors." [GOC

6882 Pathogen[ Q2Q067] interacts with 1 human partners:{P61978}

6883 Pathogen[ P03346] interacts with 2 human partners:{P61978;Q9Y2B0}

6884 Pathogen[ Q85601] interacts with 1 human partners:{P61978}

6885 Pathogen[ P14079] interacts with 2 human partners:{P61978;Q9Y2B0}

6886 Pathogen[ P03383] interacts with 1 human partners:{P61978}

6887 Pathogen[ P03410] interacts with 2 human partners:{P61978;Q9Y2B0}

6888 Pathogen[ P14075] interacts with 1 human partners:{P61978}

6889 Pathogen[ P0C206] interacts with 1 human partners:{P61978}

6890 Pathogen[ P03363] interacts with 1 human partners:{P61978}

6891 [Cluster 1121]GO:0019061+P biological\_process [name] uncoating of virus [def] "A general term applied to the events that occur after penetration\_ refers to the 'uncoating' of the viral genome from the nucleocapsid core." [ISBN

6892 Pathogen[ Q2Q067] interacts with 1 human partners:{P62937}

6893 Pathogen[ P03346] interacts with 1 human partners:{P62937}

6894 Pathogen[ Q85601] interacts with 1 human partners:{P62937}

6895 Pathogen[ P14079] interacts with 1 human partners:{P62937}

6896 Pathogen[ P03383] interacts with 1 human partners:{P62937}

6897 Pathogen[ P03410] interacts with 1 human partners:{P62937}

6898 Pathogen[ P14075] interacts with 1 human partners:{P62937}

6899 Pathogen[ P0C206] interacts with 1 human partners:{P62937}

6900 Pathogen[ P03363] interacts with 1 human partners:{P62937}

6901 [Cluster 1122]GO:0002540+P biological\_process [name] leukotriene production involved in inflammatory response [def] "The synthesis or release of any leukotriene following a stimulus as part of an inflammatory response, resulting in an increase in its intracellular or extracellular levels." [GOC  
6902 Pathogen[ Q2Q067] interacts with 1 human partners:{P09917}  
6903 Pathogen[ POC214] interacts with 1 human partners:{P09917}  
6904 Pathogen[ P03346] interacts with 1 human partners:{P09917}  
6905 Pathogen[ Q85601] interacts with 1 human partners:{P09917}  
6906 Pathogen[ P14079] interacts with 2 human partners:{P20292;P09917}  
6907 Pathogen[ P03410] interacts with 2 human partners:{P09917;P20292}  
6908 Pathogen[ POC206] interacts with 2 human partners:{P09917;P20292}  
6909 [Cluster 1123]GO:0046541+P biological\_process [name] saliva secretion [def] "The regulated release of saliva from the salivary glands. In man, the saliva is a turbid and slightly viscous fluid, generally of an alkaline reaction, and is secreted by the parotid, submaxillary, and sublingual glands. In the mouth the saliva is mixed with the secretion from the buccal glands. In man and many animals, saliva is an important digestive fluid on account of the presence of the peculiar enzyme, ptyalin." [GOC  
6910 Pathogen[ P14079] interacts with 1 human partners:{P02808}  
6911 Pathogen[ P03410] interacts with 1 human partners:{P02808}  
6912 Pathogen[ P14075] interacts with 1 human partners:{P02808}  
6913 Pathogen[ POC206] interacts with 1 human partners:{P02808}  
6914 Pathogen[ P03363] interacts with 1 human partners:{P02808}  
6915 [Cluster 1124]GO:0071374+P biological\_process [name] cellular response to parathyroid hormone stimulus [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a parathyroid hormone stimulus." [GOC  
6916 Pathogen[ P14079] interacts with 1 human partners:{Q06413}  
6917 Pathogen[ P03410] interacts with 1 human partners:{Q9BQB4}  
6918 [Cluster 1125]GO:0010724+P biological\_process [name] regulation of definitive erythrocyte differentiation [def] "Any process that modulates the rate, frequency, or extent of definitive erythrocyte differentiation. Definitive erythrocyte differentiation occurs as part of the process of definitive hemopoiesis." [GOC  
6919 Pathogen[ Q2Q067] interacts with 3 human partners:{P15976;O43251;Q8IX07}  
6920 Pathogen[ POC214] interacts with 2 human partners:{Q8IX07;O43251}  
6921 Pathogen[ P03346] interacts with 3 human partners:{P15976;Q8IX07;O43251}  
6922 Pathogen[ Q85601] interacts with 2 human partners:{P15976;Q8IX07}  
6923 Pathogen[ P14079] interacts with 2 human partners:{P15976;Q8IX07}  
6924 Pathogen[ P03410] interacts with 2 human partners:{Q8IX07;P15976}  
6925 Pathogen[ POC206] interacts with 2 human partners:{P15976;Q8IX07}  
6926 Pathogen[ P03363] interacts with 1 human partners:{O43251}  
6927 [Cluster 1126]GO:0042228+P biological\_process [name] interleukin-8 biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of interleukin-8." [GOC  
6928 Pathogen[ P14079] interacts with 1 human partners:{Q9Y239}  
6929 Pathogen[ P03410] interacts with 1 human partners:{Q9Y239}  
6930 [Cluster 1127]GO:0030240+P biological\_process [name] skeletal muscle thin filament assembly [def] "The aggregation, arrangement and bonding together of proteins to form the actin-based thin filaments of myofibrils in skeletal muscle." [GOC  
6931 Pathogen[ POC214] interacts with 1 human partners:{P68133}  
6932 Pathogen[ Q85601] interacts with 1 human partners:{P68133}  
6933 Pathogen[ P14079] interacts with 3 human partners:{P68032;O15273;P68133}  
6934 Pathogen[ P03410] interacts with 2 human partners:{O15273;P68133}  
6935 Pathogen[ POC206] interacts with 1 human partners:{P68133}  
6936 Pathogen[ P03363] interacts with 1 human partners:{P68133}  
6937 [Cluster 1128]GO:0042759+P biological\_process [name] long-chain fatty acid biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of long-chain fatty acids, aliphatic compounds having a terminal carboxyl group and with a chain length of C12-18." [GOC  
6938 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9H5J4}  
6939 Pathogen[ P03346] interacts with 2 human partners:{Q96PU8;Q9H5J4}  
6940 Pathogen[ Q85601] interacts with 1 human partners:{Q9H5J4}  
6941 Pathogen[ P14079] interacts with 1 human partners:{Q9H5J4}  
6942 Pathogen[ P03383] interacts with 1 human partners:{Q9H5J4}  
6943 Pathogen[ P03410] interacts with 1 human partners:{Q9H5J4}  
6944 Pathogen[ P14075] interacts with 1 human partners:{Q9H5J4}  
6945 Pathogen[ POC206] interacts with 2 human partners:{Q96PU8;Q9H5J4}  
6946 Pathogen[ P03363] interacts with 2 human partners:{Q9H5J4;Q96PU8}  
6947 [Cluster 1129]GO:0048294+P biological\_process [name] negative regulation of isotype switching to IgE isotypes [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of isotype switching to IgE isotypes." [GOC  
6948 Pathogen[ Q2Q067] interacts with 1 human partners:{P41182}  
6949 Pathogen[ POC214] interacts with 1 human partners:{P41182}  
6950 Pathogen[ P03346] interacts with 1 human partners:{P41182}  
6951 Pathogen[ Q85601] interacts with 1 human partners:{P41182}  
6952 Pathogen[ P14079] interacts with 1 human partners:{P41182}  
6953 Pathogen[ P03410] interacts with 1 human partners:{P41182}

6954 Pathogen[ POC206] interacts with 1 human partners:{P41182}

6955 [Cluster 1130]GO:0060159+P biological\_process [name] regulation of dopamine receptor signaling pathway [def] "Any process that modulates the frequency, rate or extent of a dopamine receptor signaling pathway activity. A dopamine receptor signaling pathway is the series of molecular signals generated as a consequence of a dopamine receptor binding to one of its physiological ligands." [GOC

6956 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96EV8}

6957 Pathogen[ POC214] interacts with 1 human partners:{Q96EV8}

6958 Pathogen[ P03346] interacts with 1 human partners:{Q96EV8}

6959 Pathogen[ Q85601] interacts with 1 human partners:{Q96EV8}

6960 Pathogen[ P14079] interacts with 1 human partners:{Q96EV8}

6961 Pathogen[ P03383] interacts with 1 human partners:{Q96EV8}

6962 Pathogen[ P03410] interacts with 1 human partners:{Q96EV8}

6963 Pathogen[ P14075] interacts with 1 human partners:{Q96EV8}

6964 Pathogen[ POC206] interacts with 1 human partners:{Q96EV8}

6965 [Cluster 1131]GO:0090240+P biological\_process [name] positive regulation of histone H4 acetylation [def] "Any process that increases the rate, frequency, or extent of histone H4 acetylation, the modification of histone H4 by the addition of an acetyl group." [GOC

6966 Pathogen[ P14079] interacts with 1 human partners:{P15941}

6967 Pathogen[ P03410] interacts with 1 human partners:{P15941}

6968 [Cluster 1132]GO:0009235+P biological\_process [name] cobalamin metabolic process [def] "The chemical reactions and pathways involving cobalamin (vitamin B12), a water-soluble vitamin characterized by possession of a corrin nucleus containing a cobalt atom." [GOC

6969 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9H3L0}

6970 Pathogen[ POC214] interacts with 1 human partners:{Q9H3L0}

6971 Pathogen[ P03346] interacts with 1 human partners:{Q9H3L0}

6972 Pathogen[ P14079] interacts with 2 human partners:{Q9H3L0;P27352}

6973 Pathogen[ P03383] interacts with 1 human partners:{Q9H3L0}

6974 Pathogen[ P03410] interacts with 2 human partners:{Q9H3L0;P27352}

6975 Pathogen[ P14075] interacts with 1 human partners:{Q9H3L0}

6976 Pathogen[ POC206] interacts with 1 human partners:{Q9H3L0}

6977 [Cluster 1133]GO:0046427+P biological\_process [name] positive regulation of JAK-STAT cascade [def] "Any process that activates or increases the frequency, rate or extent of the JAK-STAT signaling pathway activity." [GOC

6978 Pathogen[ P03346] interacts with 1 human partners:{Q8IUI8}

6979 Pathogen[ P14079] interacts with 2 human partners:{Q8IU54;Q8IUI8}

6980 Pathogen[ P03410] interacts with 1 human partners:{Q8IUI8}

6981 [Cluster 1134]GO:0097277+P

6982 Pathogen[ P03346] interacts with 1 human partners:{Q92481}

6983 [Cluster 1135]GO:0005996+P biological\_process [name] monosaccharide metabolic process [def] "The chemical reactions and pathways involving monosaccharides, the simplest carbohydrates. They are polyhydric alcohols containing either an aldehyde or a keto group and between three to ten or more carbon atoms. They form the constitutional repeating units of oligo- and polysaccharides." [ISBN

6984 Pathogen[ P14079] interacts with 1 human partners:{A2VDF0}

6985 Pathogen[ P03410] interacts with 1 human partners:{A2VDF0}

6986 Pathogen[ POC206] interacts with 1 human partners:{A2VDF0}

6987 [Cluster 1136]GO:0060124+P biological\_process [name] positive regulation of growth hormone secretion [def] "Any process that increases the frequency, rate or extent of the regulated release of growth hormone from a cell or group of cells." [GOC

6988 Pathogen[ P14079] interacts with 2 human partners:{Q9Y6X1;O60502}

6989 Pathogen[ P03410] interacts with 2 human partners:{O60502;Q9Y6X1}

6990 [Cluster 1137]GO:0045582+P biological\_process [name] positive regulation of T cell differentiation [def] "Any process that activates or increases the frequency, rate or extent of T cell differentiation." [GOC

6991 Pathogen[ POC214] interacts with 1 human partners:{Q92934}

6992 Pathogen[ P14079] interacts with 2 human partners:{Q92934;P13232}

6993 Pathogen[ P03410] interacts with 2 human partners:{Q92934;P13232}

6994 Pathogen[ POC206] interacts with 1 human partners:{Q92934}

6995 [Cluster 1138]GO:0045625+P biological\_process [name] regulation of T-helper 1 cell differentiation [def] "Any process that modulates the frequency, rate or extent of T-helper 1 cell differentiation." [GOC

6996 Pathogen[ P14079] interacts with 1 human partners:{Q8NEV9}

6997 Pathogen[ P03410] interacts with 1 human partners:{Q8NEV9}

6998 [Cluster 1139]GO:0051770+P biological\_process [name] positive regulation of nitric-oxide synthase biosynthetic process [def] "Any process that activates or increases the frequency, rate or extent of the chemical reactions and pathways resulting in the formation of a nitric oxide synthase enzyme." [GOC

6999 Pathogen[ POC214] interacts with 1 human partners:{P43490}

7000 Pathogen[ P14079] interacts with 1 human partners:{P43490}

7001 Pathogen[ P03410] interacts with 1 human partners:{P43490}

7002 Pathogen[ POC206] interacts with 1 human partners:{P43490}

7003 [Cluster 1140]GO:0008595+P biological\_process [name] anterior/posterior axis specification, embryo [def] "The specification of the anterior/posterior axis of the embryo by the products of genes expressed maternally and genes expressed in the zygote."

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[http
7004 Pathogen[ P03346] interacts with 3 human partners:{P13378;Q9HCS4;P17509}
7005 Pathogen[ Q85601] interacts with 1 human partners:{Q9HCS4}
7006 Pathogen[ P14079] interacts with 1 human partners:{Q8WU20}
7007 Pathogen[ P03410] interacts with 2 human partners:{Q9HCS4;Q8WU20}
7008 Pathogen[ P0C206] interacts with 2 human partners:{Q9HCS4;Q8WU20}
7009 Pathogen[ P03363] interacts with 3 human partners:{Q9HCS4;P17509;P13378}
7010 [Cluster 1141]GO:0010735+P biological_process [name] positive regulation of
transcription via serum response element binding [def] "Any process that increases
the frequency, rate or extent of the specifically regulated synthesis of RNA from DNA
encoding a specific set of genes as a result of a transcription factor interacting with
a serum response element (SRE). A serum response element is a short sequence with dyad
symmetry found in the promoters of some of the cellular immediate-early genes, regulated
by serum." [GOC
7011 Pathogen[ Q2Q067] interacts with 1 human partners:{P11831}
7012 Pathogen[ P0C214] interacts with 1 human partners:{P11831}
7013 Pathogen[ P03346] interacts with 1 human partners:{P11831}
7014 Pathogen[ Q85601] interacts with 1 human partners:{P11831}
7015 Pathogen[ P03383] interacts with 1 human partners:{P11831}
7016 Pathogen[ P03410] interacts with 1 human partners:{P11831}
7017 Pathogen[ P14075] interacts with 1 human partners:{P11831}
7018 Pathogen[ P0C206] interacts with 1 human partners:{P11831}
7019 Pathogen[ P03363] interacts with 1 human partners:{P11831}
7020 [Cluster 1142]GO:0021795+P biological_process [name] cerebral cortex cell migration
[def] "The orderly movement of cells from one site to another in the cerebral cortex."
[GO_REF
7021 Pathogen[ P03346] interacts with 1 human partners:{P50542}
7022 Pathogen[ P14079] interacts with 1 human partners:{P50542}
7023 Pathogen[ P03410] interacts with 1 human partners:{P50542}
7024 Pathogen[ P0C206] interacts with 1 human partners:{P50542}
7025 [Cluster 1143]GO:0060384+P biological_process [name] innervation [def] "The process
in which a nerve invades a tissue and makes functional synaptic connection within the
tissue." [GOC
7026 Pathogen[ P0C214] interacts with 1 human partners:{P07093}
7027 Pathogen[ Q85601] interacts with 1 human partners:{P07093}
7028 [Cluster 1144]GO:0018192+P biological_process [name] enzyme active site formation via
L-cysteine persulfide [def] "The modification of peptidyl-cysteine to form
peptidyl-L-cysteine persulfide. A persulfurated cysteine promotes active site reactivity
in Azotobacter vinelandii Rhodanese." [PMID
7029 Pathogen[ P0C214] interacts with 1 human partners:{O95396}
7030 Pathogen[ P0C206] interacts with 1 human partners:{O95396}
7031 [Cluster 1145]GO:0043652+P biological_process [name] engulfment of apoptotic cell
[def] "The removal of the apoptotic cell by phagocytosis, by a neighboring cell or by a
phagocyte." [GOC
7032 Pathogen[ Q2Q067] interacts with 1 human partners:{P63000}
7033 Pathogen[ P0C214] interacts with 1 human partners:{P63000}
7034 Pathogen[ P03346] interacts with 1 human partners:{P63000}
7035 Pathogen[ Q85601] interacts with 1 human partners:{P63000}
7036 Pathogen[ P03383] interacts with 1 human partners:{P63000}
7037 Pathogen[ P03410] interacts with 1 human partners:{P63000}
7038 Pathogen[ P14075] interacts with 1 human partners:{P63000}
7039 Pathogen[ P0C206] interacts with 1 human partners:{P63000}
7040 Pathogen[ P03363] interacts with 1 human partners:{P63000}
7041 [Cluster 1146]GO:0042346+P biological_process [name] positive regulation of NF-kappaB
import into nucleus [def] "Any process that activates or increases the frequency, rate
or extent of transfer of NF-kappaB, a transcription factor for eukaryotic RNA polymerase
II promoters, from the cytoplasm into the nucleus, across the nuclear membrane." [GOC
7042 Pathogen[ Q2Q067] interacts with 1 human partners:{P61586}
7043 Pathogen[ P0C214] interacts with 1 human partners:{P61586}
7044 Pathogen[ P03346] interacts with 2 human partners:{Q9BYM8;P61586}
7045 Pathogen[ Q85601] interacts with 1 human partners:{P61586}
7046 Pathogen[ P14079] interacts with 2 human partners:{Q9BYM8;P61586}
7047 Pathogen[ P03383] interacts with 1 human partners:{P61586}
7048 Pathogen[ P03410] interacts with 1 human partners:{P61586}
7049 Pathogen[ P14075] interacts with 1 human partners:{P61586}
7050 Pathogen[ P0C206] interacts with 2 human partners:{P61586;Q9BYM8}
7051 [Cluster 1147]GO:0000738+P biological_process [name] DNA catabolic process,
exonucleolytic [def] "The chemical reactions and pathways resulting in the breakdown of
DNA, involving the hydrolysis of terminal 3',5'-phosphodiester bonds in one or two
strands of deoxyribonucleotides." [GOC
7052 Pathogen[ P14079] interacts with 1 human partners:{Q96AZ6}
7053 Pathogen[ P03410] interacts with 1 human partners:{Q96AZ6}
7054 [Cluster 1148]GO:0060633+P biological_process [name] negative regulation of
transcription initiation from RNA polymerase II promoter [def] "Any process that
decreases the rate, frequency or extent of a process involved in starting transcription
from an RNA polymerase II promoter." [GOC

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7055 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NSA3}

7056 Pathogen[ POC214] interacts with 1 human partners:{Q9NSA3}

7057 Pathogen[ P03346] interacts with 1 human partners:{Q9NSA3}

7058 Pathogen[ Q85601] interacts with 1 human partners:{Q9NSA3}

7059 Pathogen[ P03383] interacts with 1 human partners:{Q9NSA3}

7060 Pathogen[ P03410] interacts with 1 human partners:{Q9NSA3}

7061 Pathogen[ P14075] interacts with 1 human partners:{Q9NSA3}

7062 Pathogen[ POC206] interacts with 1 human partners:{Q9NSA3}

7063 Pathogen[ P03363] interacts with 1 human partners:{Q9NSA3}

7064 [Cluster 1149]GO:0014850+P biological\_process [name] response to muscle activity [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a muscle activity stimulus." [GOC

7065 Pathogen[ P14079] interacts with 2 human partners:{P31751;P24588}

7066 Pathogen[ P03410] interacts with 1 human partners:{P24588}

7067 [Cluster 1150]GO:0007041+P biological\_process [name] lysosomal transport [def] "The directed movement of substances into, out of or within a lysosome." [GOC

7068 Pathogen[ P14079] interacts with 1 human partners:{Q9NZ43}

7069 Pathogen[ P03410] interacts with 1 human partners:{Q9NZ43}

7070 [Cluster 1151]GO:0060480+P biological\_process [name] lung goblet cell differentiation [def] "The process in which a relatively unspecialized cell acquires specialized features of a lung goblet cell. A goblet cell is a cell of the epithelial lining that produces and secretes mucins." [GOC

7071 Pathogen[ Q2Q067] interacts with 2 human partners:{P20719;O95238}

7072 Pathogen[ POC214] interacts with 1 human partners:{O95238}

7073 Pathogen[ P03346] interacts with 2 human partners:{O95238;P20719}

7074 Pathogen[ Q85601] interacts with 1 human partners:{O95238}

7075 Pathogen[ P14079] interacts with 1 human partners:{O95238}

7076 Pathogen[ P03383] interacts with 1 human partners:{O95238}

7077 Pathogen[ P03410] interacts with 1 human partners:{O95238}

7078 Pathogen[ POC206] interacts with 2 human partners:{O95238;P20719}

7079 Pathogen[ P03363] interacts with 2 human partners:{P20719;O95238}

7080 [Cluster 1152]GO:0030578+P biological\_process [name] PML body organization [def] "A process that is carried out at the cellular level which results in the assembly, arrangement of constituent parts, or disassembly of PML bodies, a class of nuclear body\_ they react against SP100 auto-antibodies (PML = promyelocytic leukemia)." [GOC

7081 Pathogen[ Q2Q067] interacts with 1 human partners:{P14921}

7082 Pathogen[ POC214] interacts with 1 human partners:{P14921}

7083 Pathogen[ P03346] interacts with 1 human partners:{P14921}

7084 Pathogen[ Q85601] interacts with 1 human partners:{P14921}

7085 Pathogen[ P03383] interacts with 1 human partners:{P14921}

7086 Pathogen[ P03410] interacts with 1 human partners:{P14921}

7087 Pathogen[ P14075] interacts with 1 human partners:{P14921}

7088 Pathogen[ POC206] interacts with 1 human partners:{P14921}

7089 Pathogen[ P03363] interacts with 1 human partners:{P14921}

7090 [Cluster 1153]GO:0032714+P biological\_process [name] negative regulation of interleukin-5 production [def] "Any process that stops, prevents, or reduces the frequency, rate, or extent of interleukin-5 production." [GOC

7091 Pathogen[ P14079] interacts with 1 human partners:{Q8IU54}

7092 [Cluster 1154]GO:0006725+P biological\_process [name] cellular aromatic compound metabolic process [def] "The chemical reactions and pathways involving aromatic compounds, any organic compound characterized by one or more planar rings, each of which contains conjugated double bonds and delocalized pi electrons, as carried out by individual cells." [GOC

7093 Pathogen[ P14079] interacts with 1 human partners:{Q8N0X4}

7094 Pathogen[ P03410] interacts with 1 human partners:{Q8N0X4}

7095 [Cluster 1155]GO:0006258+P biological\_process [name] UDP-glucose catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of UDP-glucose, uridinediphosphoglucose, a substance composed of glucose in glycosidic linkage with uridine diphosphate." [GOC

7096 Pathogen[ Q2Q067] interacts with 1 human partners:{P07902}

7097 Pathogen[ POC214] interacts with 1 human partners:{P07902}

7098 Pathogen[ Q85601] interacts with 1 human partners:{P07902}

7099 Pathogen[ P14079] interacts with 1 human partners:{P07902}

7100 Pathogen[ P03383] interacts with 1 human partners:{P07902}

7101 Pathogen[ P03410] interacts with 1 human partners:{P07902}

7102 Pathogen[ P14075] interacts with 1 human partners:{P07902}

7103 Pathogen[ POC206] interacts with 1 human partners:{P07902}

7104 [Cluster 1156]GO:0031960+P biological\_process [name] response to corticosteroid stimulus [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a corticosteroid hormone stimulus. A corticosteroid is a steroid hormone that is produced in the adrenal cortex. Corticosteroids are involved in a wide range of physiologic systems such as stress response, immune response and regulation of inflammation, carbohydrate metabolism, protein catabolism, blood electrolyte levels, and behavior. They include glucocorticoids and mineralocorticoids." [GOC

7105 Pathogen[ Q2Q067] interacts with 1 human partners:{094993}

7106 Pathogen[ P0C214] interacts with 1 human partners:{094993}

7107 Pathogen[ P03346] interacts with 1 human partners:{094993}

7108 Pathogen[ Q85601] interacts with 1 human partners:{094993}

7109 Pathogen[ P14079] interacts with 2 human partners:{P04083;094993}

7110 Pathogen[ P03410] interacts with 1 human partners:{094993}

7111 Pathogen[ P0C206] interacts with 1 human partners:{094993}

7112 Pathogen[ P03363] interacts with 1 human partners:{094993}

7113 [Cluster 1157]GO:1901313+P

7114 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9H4X1;P84022}

7115 Pathogen[ P0C214] interacts with 2 human partners:{Q9H4X1;P84022}

7116 Pathogen[ P03346] interacts with 2 human partners:{Q9H4X1;P84022}

7117 Pathogen[ Q85601] interacts with 2 human partners:{Q9H4X1;P84022}

7118 Pathogen[ P03383] interacts with 2 human partners:{Q9H4X1;P84022}

7119 Pathogen[ P03410] interacts with 2 human partners:{P84022;Q9H4X1}

7120 Pathogen[ P14075] interacts with 2 human partners:{Q9H4X1;P84022}

7121 Pathogen[ P0C206] interacts with 2 human partners:{P84022;Q9H4X1}

7122 Pathogen[ P03363] interacts with 2 human partners:{Q9H4X1;P84022}

7123 [Cluster 1158]GO:0039528+P

7124 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BYX4}

7125 Pathogen[ P0C214] interacts with 1 human partners:{Q9BYX4}

7126 Pathogen[ P03346] interacts with 1 human partners:{Q9BYX4}

7127 Pathogen[ Q85601] interacts with 1 human partners:{Q9BYX4}

7128 Pathogen[ P14079] interacts with 1 human partners:{Q9BYX4}

7129 Pathogen[ P03410] interacts with 1 human partners:{Q9BYX4}

7130 Pathogen[ P0C206] interacts with 1 human partners:{Q9BYX4}

7131 Pathogen[ P03363] interacts with 1 human partners:{Q9BYX4}

7132 [Cluster 1159]GO:0045880+P biological\_process [name] positive regulation of smoothened signaling pathway [def] "Any process that activates or increases the frequency, rate or extent of smoothened signaling." [GOC

7133 Pathogen[ Q2Q067] interacts with 2 human partners:{P08151;P54821}

7134 Pathogen[ P0C214] interacts with 1 human partners:{P08151}

7135 Pathogen[ P03346] interacts with 3 human partners:{P54821;Q99811;P08151}

7136 Pathogen[ Q85601] interacts with 1 human partners:{P08151}

7137 Pathogen[ P14079] interacts with 3 human partners:{P08151;P57679;P54826}

7138 Pathogen[ P03410] interacts with 1 human partners:{P54826}

7139 Pathogen[ P14075] interacts with 1 human partners:{P54826}

7140 Pathogen[ P0C206] interacts with 3 human partners:{P54821;P08151;P54826}

7141 Pathogen[ P03363] interacts with 3 human partners:{P08151;P54821;Q99811}

7142 [Cluster 1160]GO:0045359+P biological\_process [name] positive regulation of interferon-beta biosynthetic process [def] "Any process that activates or increases the frequency, rate or extent of the chemical reactions and pathways resulting in the formation of interferon-beta." [GOC

7143 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8IUC6}

7144 Pathogen[ P0C214] interacts with 1 human partners:{Q8IUC6}

7145 Pathogen[ P03346] interacts with 1 human partners:{Q8IUC6}

7146 Pathogen[ Q85601] interacts with 1 human partners:{Q8IUC6}

7147 Pathogen[ P14079] interacts with 1 human partners:{Q8IUC6}

7148 Pathogen[ P03383] interacts with 1 human partners:{Q8IUC6}

7149 Pathogen[ P03410] interacts with 1 human partners:{Q8IUC6}

7150 Pathogen[ P14075] interacts with 1 human partners:{Q8IUC6}

7151 Pathogen[ P0C206] interacts with 1 human partners:{Q8IUC6}

7152 [Cluster 1161]GO:0048319+P biological\_process [name] axial mesoderm morphogenesis [def] "The process in which the anatomical structures of the axial mesoderm are generated and organized." [GOC

7153 Pathogen[ P03346] interacts with 1 human partners:{Q9HCS4}

7154 Pathogen[ Q85601] interacts with 1 human partners:{Q9HCS4}

7155 Pathogen[ P03410] interacts with 1 human partners:{Q9HCS4}

7156 Pathogen[ P0C206] interacts with 1 human partners:{Q9HCS4}

7157 Pathogen[ P03363] interacts with 1 human partners:{Q9HCS4}

7158 [Cluster 1162]GO:0043415+P biological\_process [name] positive regulation of skeletal muscle tissue regeneration [def] "Any process that activates or increase the rate of skeletal muscle regeneration." [GOC

7159 Pathogen[ Q2Q067] interacts with 1 human partners:{P15172}

7160 Pathogen[ P0C214] interacts with 1 human partners:{P15172}

7161 Pathogen[ P03346] interacts with 1 human partners:{P15172}

7162 Pathogen[ Q85601] interacts with 1 human partners:{P15172}

7163 Pathogen[ P03383] interacts with 1 human partners:{P15172}

7164 Pathogen[ P14075] interacts with 1 human partners:{P15172}

7165 Pathogen[ P0C206] interacts with 1 human partners:{P15172}

7166 Pathogen[ P03363] interacts with 1 human partners:{P15172}

7167 [Cluster 1163]GO:0032367+P biological\_process [name] intracellular cholesterol transport [def] "The directed movement of cholesterol, cholest-5-en-3-beta-ol, within cells." [GOC

7168 Pathogen[ Q2Q067] interacts with 1 human partners:{075351}

7169 Pathogen[ P0C214] interacts with 1 human partners:{075351}

7170 Pathogen[ P03346] interacts with 1 human partners:{075351}

7171 Pathogen[ Q85601] interacts with 1 human partners:{075351}

7172 Pathogen[ P14079] interacts with 1 human partners:{075351}

7173 Pathogen[ P03410] interacts with 1 human partners:{075351}

7174 Pathogen[ P0C206] interacts with 1 human partners:{075351}

7175 Pathogen[ P03363] interacts with 1 human partners:{075351}

7176 [Cluster 1164]GO:0039008+P biological\_process [name] pronephric nephron tubule morphogenesis [def] "The process in which the anatomical structures of a pronephric nephron tubule are generated and organized from an epithelium. A pronephric nephron tubule is an epithelial tube that is part of the pronephric nephron." [GOC

7177 Pathogen[ P03346] interacts with 1 human partners:{Q8N157}

7178 Pathogen[ P14079] interacts with 1 human partners:{Q8N157}

7179 Pathogen[ P03410] interacts with 1 human partners:{Q8N157}

7180 Pathogen[ P0C206] interacts with 1 human partners:{Q8N157}

7181 Pathogen[ P03363] interacts with 1 human partners:{Q8N157}

7182 [Cluster 1165]GO:2000017+P biological\_process [name] positive regulation of determination of dorsal identity [def] "Any process that activates or increases the frequency, rate or extent of determination of dorsal identity." [GOC

7183 Pathogen[ P14079] interacts with 1 human partners:{P45983}

7184 [Cluster 1166]GO:0046854+P biological\_process [name] phosphatidylinositol phosphorylation [def] "The process of introducing one or more phosphate groups into a phosphatidylinositol, any glycerophosphoinositol having one phosphatidyl group esterified to one of the hydroxy groups of inositol." [ISBN

7185 Pathogen[ Q2Q067] interacts with 1 human partners:{P27986}

7186 Pathogen[ P0C214] interacts with 2 human partners:{O15056;P27986}

7187 Pathogen[ P03346] interacts with 2 human partners:{O15056;P27986}

7188 Pathogen[ Q85601] interacts with 1 human partners:{P27986}

7189 Pathogen[ P03383] interacts with 1 human partners:{P27986}

7190 Pathogen[ P03410] interacts with 1 human partners:{P27986}

7191 Pathogen[ P14075] interacts with 1 human partners:{P27986}

7192 Pathogen[ P0C206] interacts with 1 human partners:{P27986}

7193 Pathogen[ P03363] interacts with 2 human partners:{O15056;P27986}

7194 [Cluster 1167]GO:0070831+P biological\_process [name] basement membrane assembly [def] "The aggregation, arrangement and bonding together of a set of components to form a basement membrane, a part of the extracellular region that consists of a thin layer of dense material found in various animal tissues interposed between the cells and the adjacent connective tissue." [GOC

7195 Pathogen[ P14079] interacts with 1 human partners:{O60895}

7196 Pathogen[ P03410] interacts with 1 human partners:{O60895}

7197 [Cluster 1168]GO:0032926+P biological\_process [name] negative regulation of activin receptor signaling pathway [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the activity of any activin receptor signaling pathway." [GOC

7198 Pathogen[ Q2Q067] interacts with 2 human partners:{Q86UL8;P12755}

7199 Pathogen[ P0C214] interacts with 2 human partners:{O95633;P12755}

7200 Pathogen[ P03346] interacts with 2 human partners:{Q86UL8;O95633}

7201 Pathogen[ Q85601] interacts with 2 human partners:{Q86UL8;P12755}

7202 Pathogen[ P14079] interacts with 2 human partners:{P12755;Q86UL8}

7203 Pathogen[ P03410] interacts with 2 human partners:{P12755;Q86UL8}

7204 Pathogen[ P0C206] interacts with 3 human partners:{O95633;P12755;Q86UL8}

7205 Pathogen[ P03363] interacts with 2 human partners:{P19883;Q86UL8}

7206 [Cluster 1169]GO:2001047+P biological\_process [name] regulation of G1/S transition checkpoint [def] "Any process that modulates the frequency, rate or extent of G1/S transition checkpoint." [GOC

7207 Pathogen[ Q2Q067] interacts with 1 human partners:{P31749}

7208 Pathogen[ P0C214] interacts with 1 human partners:{P31749}

7209 Pathogen[ P03346] interacts with 1 human partners:{P31749}

7210 Pathogen[ Q85601] interacts with 1 human partners:{P31749}

7211 Pathogen[ P03383] interacts with 1 human partners:{P31749}

7212 Pathogen[ P03410] interacts with 1 human partners:{P31749}

7213 Pathogen[ P14075] interacts with 1 human partners:{P31749}

7214 Pathogen[ P0C206] interacts with 1 human partners:{P31749}

7215 Pathogen[ P03363] interacts with 1 human partners:{P31749}

7216 [Cluster 1170]GO:0045836+P biological\_process [name] positive regulation of meiosis [def] "Any process that activates or increases the frequency, rate or extent of meiosis." [GOC

7217 Pathogen[ P03346] interacts with 1 human partners:{Q86SE8}

7218 Pathogen[ Q85601] interacts with 1 human partners:{Q86SE8}

7219 Pathogen[ P03410] interacts with 1 human partners:{Q86SE8}

7220 Pathogen[ P0C206] interacts with 1 human partners:{Q86SE8}

7221 Pathogen[ P03363] interacts with 2 human partners:{Q92904;Q86SE8}

7222 [Cluster 1171]GO:0007342+P biological\_process [name] fusion of sperm to egg plasma membrane [def] "The binding and fusion of a sperm, having penetrated the zona pellucida, with the plasma membrane of the oocyte. Binding occurs at the posterior (post-acrosomal) region of the sperm head." [GOC

7223 Pathogen[ P14079] interacts with 3 human partners:{Q9NQ60;Q6UW49;Q9BZX4}

7224 Pathogen[ P03410] interacts with 3 human partners:{Q9NQ60;Q6UW49;Q9BZX4}

7225 [Cluster 1172]GO:0042129+P biological\_process [name] regulation of T cell proliferation [def] "Any process that modulates the frequency, rate or extent of T cell proliferation." [GOC

7226 Pathogen[ P14079] interacts with 1 human partners:{Q8NEV9}

7227 Pathogen[ P03410] interacts with 1 human partners:{Q8NEV9}

7228 [Cluster 1173]GO:0048535+P biological\_process [name] lymph node development [def] "The process whose specific outcome is the progression of lymph nodes over time, from their formation to the mature structure. A lymph node is a round, oval, or bean shaped structure localized in clusters along the lymphatic vessels, with a distinct internal structure including specialized vasculature and B- and T-zones for the activation of lymphocytes." [GOC

7229 Pathogen[ P03346] interacts with 1 human partners:{Q8TAU0}

7230 Pathogen[ P0C206] interacts with 2 human partners:{Q13422;Q8TAU0}

7231 Pathogen[ P03363] interacts with 1 human partners:{Q8TAU0}

7232 [Cluster 1174]GO:0009268+P biological\_process [name] response to pH [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a pH stimulus." [GOC

7233 Pathogen[ P03410] interacts with 1 human partners:{Q96D96}

7234 [Cluster 1175]GO:0016082+P biological\_process [name] synaptic vesicle priming [def] "The formation of SNARE-containing complexes, bringing synaptic vesicle membrane and plasma membranes into close proximity and thereby facilitating membrane fusion." [GOC

7235 Pathogen[ P03346] interacts with 1 human partners:{Q9ULU8}

7236 Pathogen[ P14079] interacts with 1 human partners:{Q9ULU8}

7237 Pathogen[ P03410] interacts with 1 human partners:{Q9ULU8}

7238 Pathogen[ P0C206] interacts with 1 human partners:{Q9ULU8}

7239 [Cluster 1176]GO:0006007+P biological\_process [name] glucose catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of glucose, the aldohexose gluco-hexose." [GOC

7240 Pathogen[ P0C214] interacts with 3 human partners:{Q92934;P51854;O60825}

7241 Pathogen[ Q85601] interacts with 1 human partners:{O60825}

7242 Pathogen[ P14079] interacts with 2 human partners:{P51854;Q92934}

7243 Pathogen[ P03410] interacts with 2 human partners:{Q92934;P51854}

7244 Pathogen[ P0C206] interacts with 3 human partners:{P51854;Q92934;O60825}

7245 [Cluster 1177]GO:0035610+P biological\_process [name] protein side chain deglutamylation [def] "The removal of a glutamate residue from the side chain of a protein. Glutamate side chains are added to glutamic acid residues within the primary protein sequence during polyglutamylatation." [GOC

7246 Pathogen[ P14079] interacts with 2 human partners:{Q96MI9;Q9UPW5}

7247 Pathogen[ P03410] interacts with 1 human partners:{Q9UPW5}

7248 Pathogen[ P0C206] interacts with 1 human partners:{Q9UPW5}

7249 [Cluster 1178]GO:2000729+P biological\_process [name] positive regulation of mesenchymal cell proliferation involved in ureter development [def] "Any process that activates or increases the frequency, rate or extent of mesenchymal cell proliferation involved in ureter development." [GOC

7250 Pathogen[ P03346] interacts with 1 human partners:{Q15475}

7251 [Cluster 1179]GO:0097211+P

7252 Pathogen[ P0C214] interacts with 1 human partners:{Q8TDB4}

7253 Pathogen[ P03346] interacts with 1 human partners:{Q8TDB4}

7254 Pathogen[ Q85601] interacts with 1 human partners:{Q8TDB4}

7255 Pathogen[ P14079] interacts with 1 human partners:{Q8TDB4}

7256 Pathogen[ P03383] interacts with 1 human partners:{Q8TDB4}

7257 Pathogen[ P03410] interacts with 1 human partners:{Q8TDB4}

7258 Pathogen[ P14075] interacts with 1 human partners:{Q8TDB4}

7259 Pathogen[ P0C206] interacts with 1 human partners:{Q8TDB4}

7260 [Cluster 1180]GO:0021722+P biological\_process [name] superior olivary nucleus maturation [def] "A developmental process, independent of morphogenetic (shape) change, that is required for the superior olivary nucleus to attain its fully functional state. The superior olivary nucleus is a small cylindrical mass on the dorsal surface of the lateral part of the trapezoid body of the pons, and it is situated immediately above the inferior olivary nucleus. It receives projections from the cochlear nucleus and thus is involved in the perception of sound." [GO\_REF

7261 Pathogen[ P14079] interacts with 1 human partners:{Q15078}

7262 [Cluster 1181]GO:0043249+P biological\_process [name] erythrocyte maturation [def] "A developmental process, independent of morphogenetic (shape) change, that is required for an erythrocyte to attain its fully functional state." [GOC

7263 Pathogen[ P0C214] interacts with 2 human partners:{P11413;Q7L5Y9}

7264 Pathogen[ P03346] interacts with 4 human partners:{Q9Y5W3;Q13351;P16452;P17542}

7265 Pathogen[ Q85601] interacts with 1 human partners:{Q7L5Y9}

7266 Pathogen[ P14079] interacts with 5 human partners:{P16452;Q7L5Y9;P02008;Q13351;Q9Y5W3}

7267 Pathogen[ P03410] interacts with 3 human partners:{P02008;P16452;Q7L5Y9}

7268 Pathogen[ P14075] interacts with 1 human partners:{Q7L5Y9}

7269 Pathogen[ P0C206] interacts with 3 human partners:{P02008;Q7L5Y9;P16452}

7270 Pathogen[ P03363] interacts with 1 human partners:{P16452}



7271 [Cluster 1182]GO:0006089+P biological\_process [name] lactate metabolic process  
[def] "The chemical reactions and pathways involving lactate, the anion of lactic acid."  
[ISBN

7272 Pathogen[ Q2Q067] interacts with 1 human partners:{P07195}  
7273 Pathogen[ P0C214] interacts with 2 human partners:{O60825;P07195}  
7274 Pathogen[ P03346] interacts with 1 human partners:{P07195}  
7275 Pathogen[ Q85601] interacts with 2 human partners:{O60825;P07195}  
7276 Pathogen[ P14079] interacts with 1 human partners:{P07195}  
7277 Pathogen[ P03383] interacts with 1 human partners:{P07195}  
7278 Pathogen[ P03410] interacts with 1 human partners:{P07195}  
7279 Pathogen[ P14075] interacts with 1 human partners:{P07195}  
7280 Pathogen[ P0C206] interacts with 2 human partners:{P07195;O60825}

7281 [Cluster 1183]GO:0030862+P biological\_process [name] positive regulation of polarized epithelial cell differentiation [def] "Any process that activates or increases the rate or extent of polarized epithelial cell differentiation." [GOC

7282 Pathogen[ P03346] interacts with 1 human partners:{Q8N157}  
7283 Pathogen[ P14079] interacts with 1 human partners:{Q8N157}  
7284 Pathogen[ P03410] interacts with 1 human partners:{Q8N157}  
7285 Pathogen[ P0C206] interacts with 1 human partners:{Q8N157}  
7286 Pathogen[ P03363] interacts with 1 human partners:{Q8N157}

7287 [Cluster 1184]GO:0070427+P biological\_process [name] nucleotide-binding oligomerization domain containing 1 signaling pathway [def] "Any series of molecular signals generated as a consequence of binding to nucleotide-binding oligomerization domain containing 1 (NOD1)." [GOC

7288 Pathogen[ Q2Q067] interacts with 1 human partners:{P25963}  
7289 Pathogen[ P0C214] interacts with 1 human partners:{P25963}  
7290 Pathogen[ P03346] interacts with 1 human partners:{P25963}  
7291 Pathogen[ Q85601] interacts with 1 human partners:{P25963}  
7292 Pathogen[ P03383] interacts with 1 human partners:{P25963}  
7293 Pathogen[ P03410] interacts with 1 human partners:{P25963}  
7294 Pathogen[ P14075] interacts with 1 human partners:{P25963}  
7295 Pathogen[ P0C206] interacts with 1 human partners:{P25963}  
7296 Pathogen[ P03363] interacts with 1 human partners:{P25963}

7297 [Cluster 1185]GO:0034344+P biological\_process [name] regulation of type III interferon production [def] "Any process that modulates the frequency, rate, or extent of type III interferon production. Type III interferons are members of the interferon-lambda gene family." [GOC

7298 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BYX4}  
7299 Pathogen[ P0C214] interacts with 1 human partners:{Q9BYX4}  
7300 Pathogen[ P03346] interacts with 1 human partners:{Q9BYX4}  
7301 Pathogen[ Q85601] interacts with 1 human partners:{Q9BYX4}  
7302 Pathogen[ P14079] interacts with 1 human partners:{Q9BYX4}  
7303 Pathogen[ P03410] interacts with 1 human partners:{Q9BYX4}  
7304 Pathogen[ P0C206] interacts with 1 human partners:{Q9BYX4}  
7305 Pathogen[ P03363] interacts with 1 human partners:{Q9BYX4}

7306 [Cluster 1186]GO:0060662+P biological\_process [name] salivary gland cavitation [def] "The process in which the solid core of salivary epithelium gives rise to the hollow tube of the gland." [GOC

7307 Pathogen[ Q2Q067] interacts with 1 human partners:{P21980}  
7308 Pathogen[ P0C214] interacts with 1 human partners:{P21980}  
7309 Pathogen[ P03346] interacts with 1 human partners:{P21980}  
7310 Pathogen[ Q85601] interacts with 1 human partners:{P21980}  
7311 Pathogen[ P14079] interacts with 1 human partners:{P21980}  
7312 Pathogen[ P03383] interacts with 1 human partners:{P21980}  
7313 Pathogen[ P03410] interacts with 1 human partners:{P21980}  
7314 Pathogen[ P14075] interacts with 1 human partners:{P21980}  
7315 Pathogen[ P0C206] interacts with 1 human partners:{P21980}

7316 [Cluster 1187]GO:0021904+P biological\_process [name] dorsal/ventral neural tube patterning [def] "The process in which the neural tube is regionalized in the dorsoventral axis." [GO\_REF

7317 Pathogen[ P03346] interacts with 3 human partners:{P50219;P23759;P56915}  
7318 Pathogen[ P14079] interacts with 1 human partners:{P54826}  
7319 Pathogen[ P03410] interacts with 1 human partners:{P54826}  
7320 Pathogen[ P14075] interacts with 1 human partners:{P54826}  
7321 Pathogen[ P0C206] interacts with 1 human partners:{P54826}  
7322 Pathogen[ P03363] interacts with 3 human partners:{P56915;P23759;P50219}

7323 [Cluster 1188]GO:0009108+P biological\_process [name] coenzyme biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of coenzymes, any of various nonprotein organic cofactors that are required, in addition to an enzyme and a substrate, for an enzymatic reaction to proceed." [GOC

7324 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9HAB8}  
7325 Pathogen[ P0C214] interacts with 4 human partners:{Q8TE04;Q9HAB8;Q13057;Q9BZ23}  
7326 Pathogen[ P03346] interacts with 1 human partners:{Q9HAB8}  
7327 Pathogen[ P14079] interacts with 5 human partners:{Q8TE04;Q9BZ23;Q13057;Q96CD2;Q9HAB8}

7328 Pathogen[ P03383] interacts with 2 human partners:{Q9BZ23;Q9HAB8}

7329 Pathogen[ P03410] interacts with 5 human partners:{Q8TE04;Q13057;Q96CD2;Q9BZ23;Q9HAB8}

7330 Pathogen[ P14075] interacts with 4 human partners:{Q9HAB8;Q13057;Q8TE04;Q9BZ23}

7331 Pathogen[ POC206] interacts with 4 human partners:{Q8TE04;Q13057;Q9BZ23;Q9HAB8}

7332 [Cluster 1189]GO:0010756+P biological\_process [name] positive regulation of plasminogen activation [def] "Any process that increases the rate, frequency or extent of plasminogen activation. Plasminogen activation is the process in which plasminogen is processed to plasmin." [GOC

7333 Pathogen[ P03410] interacts with 1 human partners:{Q9HBL7}

7334 [Cluster 1190]GO:0060420+P biological\_process [name] regulation of heart growth [def] "Any process that modulates the rate or extent of heart growth. Heart growth is the increase in size or mass of the heart." [GOC

7335 Pathogen[ POC214] interacts with 1 human partners:{P13533}

7336 Pathogen[ Q85601] interacts with 1 human partners:{P13533}

7337 Pathogen[ P03410] interacts with 1 human partners:{P13533}

7338 Pathogen[ POC206] interacts with 1 human partners:{P13533}

7339 [Cluster 1191]GO:0000719+P biological\_process [name] photoreactive repair [def] "The repair of UV-induced T-T, C-T and C-C dimers by directly reversing the damage to restore the original pyrimidines." [GOC

7340 Pathogen[ POC214] interacts with 1 human partners:{Q49AN0}

7341 Pathogen[ P03346] interacts with 1 human partners:{Q49AN0}

7342 Pathogen[ Q85601] interacts with 1 human partners:{Q49AN0}

7343 Pathogen[ P14079] interacts with 1 human partners:{Q49AN0}

7344 Pathogen[ P03410] interacts with 1 human partners:{Q49AN0}

7345 Pathogen[ POC206] interacts with 1 human partners:{Q49AN0}

7346 Pathogen[ P03363] interacts with 1 human partners:{Q49AN0}

7347 [Cluster 1192]GO:0061003+P biological\_process [name] positive regulation of dendritic spine morphogenesis [def] "Any process that modulates the rate, frequency, or extent of dendritic spine morphogenesis, the process in which the anatomical structures of a dendritic spine are generated and organized. A dendritic spine is a protrusion from a dendrite and a specialized subcellular compartment involved in synaptic transmission." [GOC

7348 Pathogen[ P14079] interacts with 1 human partners:{Q14444}

7349 [Cluster 1193]GO:0042089+P biological\_process [name] cytokine biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of cytokines, any of a group of proteins that function to control the survival, growth and differentiation of tissues and cells, and which have autocrine and paracrine activity." [GOC

7350 Pathogen[ Q2Q067] interacts with 1 human partners:{Q15744}

7351 Pathogen[ P03346] interacts with 1 human partners:{Q15744}

7352 Pathogen[ Q85601] interacts with 1 human partners:{Q15744}

7353 Pathogen[ P14079] interacts with 1 human partners:{Q15744}

7354 Pathogen[ P03410] interacts with 1 human partners:{Q15744}

7355 Pathogen[ POC206] interacts with 1 human partners:{Q15744}

7356 Pathogen[ P03363] interacts with 1 human partners:{Q15744}

7357 [Cluster 1194]GO:0050773+P biological\_process [name] regulation of dendrite development [def] "Any process that modulates the frequency, rate or extent of dendrite development." [GOC

7358 Pathogen[ Q2Q067] interacts with 1 human partners:{Q12834}

7359 Pathogen[ POC214] interacts with 1 human partners:{Q12834}

7360 Pathogen[ P03346] interacts with 2 human partners:{Q9H165;Q12834}

7361 Pathogen[ Q85601] interacts with 1 human partners:{Q12834}

7362 Pathogen[ P03383] interacts with 1 human partners:{Q12834}

7363 Pathogen[ P03410] interacts with 1 human partners:{Q12834}

7364 Pathogen[ P14075] interacts with 1 human partners:{Q12834}

7365 Pathogen[ POC206] interacts with 2 human partners:{Q9H165;Q12834}

7366 Pathogen[ P03363] interacts with 1 human partners:{Q12834}

7367 [Cluster 1195]GO:0048752+P biological\_process [name] semicircular canal morphogenesis [def] "The process in which the anatomical structures of the semicircular canals are generated and organized." [GOC

7368 Pathogen[ Q2Q067] interacts with 1 human partners:{Q99502}

7369 Pathogen[ POC214] interacts with 1 human partners:{Q99502}

7370 Pathogen[ P03346] interacts with 2 human partners:{Q99502;Q9P2D1}

7371 Pathogen[ Q85601] interacts with 2 human partners:{Q9P2D1;Q99502}

7372 Pathogen[ P14079] interacts with 2 human partners:{Q99502;Q9P2D1}

7373 Pathogen[ P03410] interacts with 2 human partners:{Q99502;Q9P2D1}

7374 Pathogen[ P14075] interacts with 1 human partners:{Q99502}

7375 Pathogen[ POC206] interacts with 2 human partners:{Q9P2D1;Q99502}

7376 [Cluster 1196]GO:0045226+P biological\_process [name] extracellular polysaccharide biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of polysaccharides used in extracellular structures." [GOC

7377 Pathogen[ POC214] interacts with 1 human partners:{Q9NZL9}

7378 Pathogen[ P03346] interacts with 1 human partners:{Q9NZL9}

7379 Pathogen[ P14079] interacts with 1 human partners:{Q9NZL9}

7380 Pathogen[ P03410] interacts with 1 human partners:{Q9NZL9}

7381 Pathogen[ POC206] interacts with 1 human partners:{Q9NZL9}

7382 [Cluster 1197]GO:0046984+P biological\_process [name] regulation of hemoglobin

biosynthetic process [def] "Any process that modulates the frequency, rate or extent of the chemical reactions and pathways resulting in the formation of hemoglobin, an oxygen carrying, conjugated protein containing four heme groups and globin." [GOC

7383 Pathogen[ P0C214] interacts with 1 human partners:{P22830}

7384 Pathogen[ P14079] interacts with 1 human partners:{P22830}

7385 Pathogen[ P03410] interacts with 1 human partners:{P22830}

7386 Pathogen[ P0C206] interacts with 1 human partners:{P22830}

7387 [Cluster 1198]GO:0015876+P biological\_process [name] acetyl-CoA transport [def] "The directed movement of acetyl-CoA into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore. Acetyl-CoA is a derivative of coenzyme A in which the sulfhydryl group is acetylated\_ it is a metabolite derived from several pathways (e.g. glycolysis, fatty acid oxidation, amino-acid catabolism) and is further metabolized by the tricarboxylic acid cycle. It is a key intermediate in lipid and terpenoid biosynthesis." [GOC

7388 Pathogen[ P14079] interacts with 1 human partners:{000400}

7389 Pathogen[ P03410] interacts with 1 human partners:{000400}

7390 [Cluster 1199]GO:0071258+P biological\_process [name] cellular response to gravity [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a gravitational stimulus." [GOC

7391 Pathogen[ P0C214] interacts with 1 human partners:{P05121}

7392 Pathogen[ Q85601] interacts with 1 human partners:{P05121}

7393 Pathogen[ P03410] interacts with 1 human partners:{P05121}

7394 Pathogen[ P0C206] interacts with 1 human partners:{P05121}

7395 [Cluster 1200]GO:0021796+P biological\_process [name] cerebral cortex regionalization [def] "The regionalization process that results in the creation of areas within the cerebral cortex that will direct the behavior of cell migration and differentiation as the cortex develops." [GO\_REF

7396 Pathogen[ Q2Q067] interacts with 1 human partners:{Q04743}

7397 Pathogen[ P03346] interacts with 2 human partners:{Q04743;Q04741}

7398 Pathogen[ P14079] interacts with 1 human partners:{Q04743}

7399 Pathogen[ P03410] interacts with 1 human partners:{Q04743}

7400 Pathogen[ P0C206] interacts with 1 human partners:{Q04743}

7401 Pathogen[ P03363] interacts with 2 human partners:{Q04741;Q04743}

7402 [Cluster 1201]GO:0060088+P biological\_process [name] auditory receptor cell stereocilium organization [def] "A process that is carried out at the cellular level which results in the assembly, arrangement of constituent parts, or disassembly of a stereocilium. A stereocilium is an actin-based protrusion from the apical surface of auditory hair cells." [GOC

7403 Pathogen[ P14079] interacts with 1 human partners:{Q7RTU9}

7404 Pathogen[ P03410] interacts with 1 human partners:{Q7RTU9}

7405 [Cluster 1202]GO:0019805+P biological\_process [name] quinolinate biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of quinolinate, the anion of quinolinic acid, also known as 2,3-pyridinedicarboxylic acid." [GOC

7406 Pathogen[ Q2Q067] interacts with 1 human partners:{Q16719}

7407 Pathogen[ P0C214] interacts with 1 human partners:{Q16719}

7408 Pathogen[ P03346] interacts with 1 human partners:{Q16719}

7409 Pathogen[ Q85601] interacts with 1 human partners:{Q16719}

7410 Pathogen[ P14079] interacts with 1 human partners:{Q16719}

7411 Pathogen[ P03383] interacts with 1 human partners:{Q16719}

7412 Pathogen[ P03410] interacts with 1 human partners:{Q16719}

7413 Pathogen[ P14075] interacts with 1 human partners:{Q16719}

7414 Pathogen[ P0C206] interacts with 1 human partners:{Q16719}

7415 [Cluster 1203]GO:0006958+P biological\_process [name] complement activation, classical pathway [def] "Any process involved in the activation of any of the steps of the classical pathway of the complement cascade which allows for the direct killing of microbes, the disposal of immune complexes, and the regulation of other immune processes." [GOC

7416 Pathogen[ P0C214] interacts with 1 human partners:{P10909}

7417 Pathogen[ P14079] interacts with 1 human partners:{P10909}

7418 Pathogen[ P03410] interacts with 1 human partners:{P10909}

7419 Pathogen[ P0C206] interacts with 1 human partners:{P10909}

7420 [Cluster 1204]GO:0035502+P biological\_process [name] metanephric ureteric bud development [def] "The development of the portion of the ureteric bud tube that contributes to the morphogenesis of the metanephros." [GOC

7421 Pathogen[ P0C214] interacts with 1 human partners:{P05937}

7422 Pathogen[ P03346] interacts with 1 human partners:{P05937}

7423 Pathogen[ P14079] interacts with 1 human partners:{P05937}

7424 Pathogen[ P03410] interacts with 1 human partners:{P05937}

7425 Pathogen[ P03363] interacts with 1 human partners:{P05937}

7426 [Cluster 1205]GO:0051531+P biological\_process [name] NFAT protein import into nucleus [def] "The directed movement of NFAT (nuclear factor of activated T cells) proteins, a family of transcription factors, from the cytoplasm into the nucleus. NFAT proteins are dephosphorylated in the cytoplasm by activated calcineurin, which leads to their translocation across the nuclear membrane." [PMID

7427 Pathogen[ Q2Q067] interacts with 1 human partners:{P27986}

7428 Pathogen[ P0C214] interacts with 1 human partners:{P27986}

7429 Pathogen[ P03346] interacts with 1 human partners:{P27986}

7430 Pathogen[ Q85601] interacts with 1 human partners:{P27986}

7431 Pathogen[ P03383] interacts with 1 human partners:{P27986}

7432 Pathogen[ P03410] interacts with 1 human partners:{P27986}

7433 Pathogen[ P14075] interacts with 1 human partners:{P27986}

7434 Pathogen[ P0C206] interacts with 1 human partners:{P27986}

7435 Pathogen[ P03363] interacts with 1 human partners:{P27986}

7436 [Cluster 1206]GO:0007614+P biological\_process [name] short-term memory [def] "The memory process that deals with the storage, retrieval and modification of information received a short time (up to about 30 minutes) ago. This type of memory is typically dependent on direct, transient effects of second messenger activation." [http

7437 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9H2P0}

7438 Pathogen[ P0C214] interacts with 1 human partners:{Q9H2P0}

7439 Pathogen[ P03346] interacts with 1 human partners:{Q9H2P0}

7440 Pathogen[ Q85601] interacts with 1 human partners:{Q9H2P0}

7441 Pathogen[ P14079] interacts with 1 human partners:{Q9H2P0}

7442 Pathogen[ P0C206] interacts with 1 human partners:{Q9H2P0}

7443 Pathogen[ P03363] interacts with 1 human partners:{Q9H2P0}

7444 [Cluster 1207]GO:0033364+P biological\_process [name] mast cell secretory granule organization [def] "A process that is carried out at the cellular level which results in the assembly, arrangement of constituent parts, or disassembly of a secretory granule in a mast cell. A secretory granule is a small subcellular vesicle, surrounded by a membrane, that is formed from the Golgi apparatus and contains a highly concentrated protein destined for secretion." [GOC

7445 Pathogen[ P0C214] interacts with 2 human partners:{Q99698;P10124}

7446 Pathogen[ P03346] interacts with 1 human partners:{Q99698}

7447 Pathogen[ Q85601] interacts with 1 human partners:{Q99698}

7448 Pathogen[ P14079] interacts with 2 human partners:{P10124;Q99698}

7449 Pathogen[ P03383] interacts with 1 human partners:{P10124}

7450 Pathogen[ P03410] interacts with 2 human partners:{P10124;Q99698}

7451 Pathogen[ P14075] interacts with 1 human partners:{P10124}

7452 Pathogen[ P0C206] interacts with 2 human partners:{Q99698;P10124}

7453 Pathogen[ P03363] interacts with 1 human partners:{Q99698}

7454 [Cluster 1208]GO:0072233+P biological\_process [name] metanephric thick ascending limb development [def] "The process whose specific outcome is the progression of the metanephric thick ascending limb over time, from its formation to the mature structure. The metanephric thick ascending limb is the last part of the metanephric loop of Henle. Its thick, mitochondria-rich epithelium characterizes the outer medulla, and is responsible for very avid active salt transport. At the macula densa, the thick ascending limb connects to the distal convoluted tubule." [GOC

7455 Pathogen[ P03346] interacts with 1 human partners:{P20264}

7456 Pathogen[ P03363] interacts with 1 human partners:{P20264}

7457 [Cluster 1209]GO:0046835+P biological\_process [name] carbohydrate phosphorylation [def] "The process of introducing a phosphate group into a carbohydrate, any organic compound based on the general formula Cx(H2O)y." [ISBN

7458 Pathogen[ P0C214] interacts with 1 human partners:{P16118}

7459 Pathogen[ Q85601] interacts with 1 human partners:{P16118}

7460 Pathogen[ P03410] interacts with 1 human partners:{P16118}

7461 Pathogen[ P14075] interacts with 1 human partners:{P16118}

7462 Pathogen[ P0C206] interacts with 1 human partners:{P16118}

7463 [Cluster 1210]GO:0021819+P biological\_process [name] layer formation in cerebral cortex [def] "The detachment of cells from radial glial fibers at the appropriate time when they cease to migrate and form distinct layer in the cerebral cortex." [GO\_REF

7464 Pathogen[ P14079] interacts with 1 human partners:{Q15078}

7465 [Cluster 1211]GO:0003190+P biological\_process [name] atrioventricular valve formation [def] "The developmental process pertaining to the initial formation of the atrioventricular valve from unspecified parts. This process begins with the specific processes that contribute to the appearance of the discrete structure and ends when the structural rudiment is recognizable." [GOC

7466 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9Y5J3}

7467 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y5J3}

7468 Pathogen[ P03346] interacts with 1 human partners:{Q9Y5J3}

7469 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y5J3}

7470 Pathogen[ P14079] interacts with 1 human partners:{Q9Y5J3}

7471 Pathogen[ P03410] interacts with 1 human partners:{Q9Y5J3}

7472 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y5J3}

7473 Pathogen[ P03363] interacts with 1 human partners:{Q9Y5J3}

7474 [Cluster 1212]GO:0045954+P biological\_process [name] positive regulation of natural killer cell mediated cytotoxicity [def] "Any process that activates or increases the frequency, rate or extent of natural killer cell mediated cytotoxicity." [GOC

7475 Pathogen[ P14079] interacts with 1 human partners:{P29459}

7476 Pathogen[ P03410] interacts with 1 human partners:{P29459}

7477 [Cluster 1213]GO:0072172+P biological\_process [name] mesonephric tubule formation [def] "The developmental process pertaining to the initial formation of a mesonephric tubule from unspecified parts. A mesonephric tubule is an epithelial tube that is part

of the mesonephros." [GOC  
7478 Pathogen[ P03346] interacts with 1 human partners:{Q15475}  
7479 [Cluster 1214]GO:0032494+P biological\_process [name] response to peptidoglycan  
[def] "Any process that results in a change in state or activity of an organism (in  
terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a  
peptidoglycan stimulus. Peptidoglycan is a bacterial cell wall macromolecule." [GOC  
7480 Pathogen[ P14079] interacts with 1 human partners:{Q99836}  
7481 [Cluster 1215]GO:0070346+P biological\_process [name] positive regulation of fat cell  
proliferation [def] "Any process that activates or increases the rate or extent of fat  
cell proliferation." [GOC  
7482 Pathogen[ Q2Q067] interacts with 1 human partners:{Q7Z2X4}  
7483 Pathogen[ P0C214] interacts with 1 human partners:{Q7Z2X4}  
7484 Pathogen[ P03346] interacts with 1 human partners:{Q7Z2X4}  
7485 Pathogen[ Q85601] interacts with 1 human partners:{Q7Z2X4}  
7486 Pathogen[ P14079] interacts with 1 human partners:{Q7Z2X4}  
7487 Pathogen[ P03410] interacts with 1 human partners:{Q7Z2X4}  
7488 Pathogen[ P0C206] interacts with 1 human partners:{Q7Z2X4}  
7489 [Cluster 1216]GO:0060032+P biological\_process [name] notochord regression [def] "The  
developmental process in which the structure of the notochord is destroyed in an embryo."  
[GOC  
7490 Pathogen[ Q2Q067] interacts with 1 human partners:{P08151}  
7491 Pathogen[ P0C214] interacts with 1 human partners:{P08151}  
7492 Pathogen[ P03346] interacts with 1 human partners:{P08151}  
7493 Pathogen[ Q85601] interacts with 1 human partners:{P08151}  
7494 Pathogen[ P14079] interacts with 1 human partners:{P08151}  
7495 Pathogen[ P0C206] interacts with 1 human partners:{P08151}  
7496 Pathogen[ P03363] interacts with 1 human partners:{P08151}  
7497 [Cluster 1217]GO:0070670+P biological\_process [name] response to interleukin-4  
[def] "Any process that results in a change in state or activity of a cell or an  
organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as  
a result of an interleukin-4 stimulus." [GOC  
7498 Pathogen[ Q2Q067] interacts with 1 human partners:{Q99966}  
7499 Pathogen[ P0C214] interacts with 1 human partners:{Q99966}  
7500 Pathogen[ P03346] interacts with 1 human partners:{Q99966}  
7501 Pathogen[ Q85601] interacts with 1 human partners:{Q99966}  
7502 Pathogen[ P14079] interacts with 1 human partners:{Q99966}  
7503 Pathogen[ P03410] interacts with 1 human partners:{Q99966}  
7504 Pathogen[ P0C206] interacts with 1 human partners:{Q99966}  
7505 [Cluster 1218]GO:0034626+P biological\_process [name] fatty acid elongation,  
polyunsaturated fatty acid [def] "Elongation of a fatty acid chain into which two or  
more C-C double bonds have been introduced." [GOC  
7506 Pathogen[ Q2Q067] interacts with 2 human partners:{A1L3X0;Q9HB03}  
7507 Pathogen[ P0C214] interacts with 4 human partners:{Q9NXB9;Q9HB03;Q9NYP7;A1L3X0}  
7508 Pathogen[ P03346] interacts with 1 human partners:{Q9HB03}  
7509 Pathogen[ Q85601] interacts with 2 human partners:{A1L3X0;Q9HB03}  
7510 Pathogen[ P14079] interacts with 2 human partners:{A1L3X0;Q9HB03}  
7511 Pathogen[ P03383] interacts with 2 human partners:{A1L3X0;Q9HB03}  
7512 Pathogen[ P03410] interacts with 2 human partners:{A1L3X0;Q9HB03}  
7513 Pathogen[ P14075] interacts with 2 human partners:{Q9HB03;A1L3X0}  
7514 Pathogen[ P0C206] interacts with 2 human partners:{Q9HB03;A1L3X0}  
7515 [Cluster 1219]GO:0015844+P biological\_process [name] monoamine transport [def] "The  
directed movement of monoamines, organic compounds that contain one amino group that is  
connected to an aromatic ring by an ethylene group (-CH2-CH2-), into, out of or within a  
cell, or between cells, by means of some agent such as a transporter or pore." [CHEBI  
7516 Pathogen[ P03346] interacts with 1 human partners:{Q9NRD5}  
7517 Pathogen[ P03410] interacts with 1 human partners:{Q9NRD5}  
7518 Pathogen[ P0C206] interacts with 1 human partners:{Q9NRD5}  
7519 [Cluster 1220]GO:0090191+P biological\_process [name] negative regulation of branching  
involved in ureteric bud morphogenesis [def] "Any process that decreases the rate,  
frequency or extent of branching involved in ureteric bud morphogenesis, the process in  
which the branching structure of the ureteric bud is generated and organized. The  
ureteric bud is an epithelial tube that grows out from the metanephric duct. The bud  
elongates and branches to give rise to the ureter and kidney collecting tubules." [GOC  
7520 Pathogen[ P03346] interacts with 1 human partners:{Q15475}  
7521 [Cluster 1221]GO:0060541+P biological\_process [name] respiratory system development  
[def] "The progression of the respiratory system over time from its formation to its  
mature structure. The respiratory system carries out respiratory gaseous exchange." [GOC  
7522 Pathogen[ P03346] interacts with 2 human partners:{P50219;O43680}  
7523 Pathogen[ P14079] interacts with 1 human partners:{O43597}  
7524 Pathogen[ P03410] interacts with 1 human partners:{O43597}  
7525 Pathogen[ P0C206] interacts with 1 human partners:{O43597}  
7526 Pathogen[ P03363] interacts with 1 human partners:{P50219}  
7527 [Cluster 1222]GO:0043987+P biological\_process [name] histone H3-S10 phosphorylation  
[def] "The modification of histone H3 by the addition of an phosphate group to a serine  
residue at position 10 of the histone." [GOC  
7528 Pathogen[ Q2Q067] interacts with 1 human partners:{O75582}

7529 Pathogen[ P0C214] interacts with 1 human partners:{075582}

7530 Pathogen[ P03346] interacts with 1 human partners:{075582}

7531 Pathogen[ Q85601] interacts with 1 human partners:{075582}

7532 Pathogen[ P14079] interacts with 1 human partners:{075582}

7533 Pathogen[ P03383] interacts with 1 human partners:{075582}

7534 Pathogen[ P03410] interacts with 1 human partners:{075582}

7535 Pathogen[ P14075] interacts with 1 human partners:{075582}

7536 Pathogen[ P0C206] interacts with 1 human partners:{075582}

7537 [Cluster 1223]GO:0002639+P biological\_process [name] positive regulation of immunoglobulin production [def] "Any process that activates or increases the frequency, rate, or extent of immunoglobulin production." [GOC

7538 Pathogen[ P03346] interacts with 1 human partners:{075995}

7539 [Cluster 1224]GO:0072205+P biological\_process [name] metanephric collecting duct development [def] "The process whose specific outcome is the progression of a collecting duct in the metanephros over time, from its formation to the mature structure. The collecting duct responds to vasopressin and aldosterone to regulate water, electrolyte and acid-base balance. The collecting duct is the final common path through which urine flows before entering the ureter and then emptying into the bladder." [GOC

7540 Pathogen[ P0C214] interacts with 1 human partners:{P05937}

7541 Pathogen[ P03346] interacts with 1 human partners:{P05937}

7542 Pathogen[ P14079] interacts with 1 human partners:{P05937}

7543 Pathogen[ P03410] interacts with 1 human partners:{P05937}

7544 Pathogen[ P03363] interacts with 1 human partners:{P05937}

7545 [Cluster 1225]GO:0006574+P biological\_process [name] valine catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of valine, 2-amino-3-methylbutanoic acid." [GOC

7546 Pathogen[ P0C214] interacts with 1 human partners:{Q6NVY1}

7547 Pathogen[ P03410] interacts with 1 human partners:{Q6NVY1}

7548 [Cluster 1226]GO:0046638+P biological\_process [name] positive regulation of alpha-beta T cell differentiation [def] "Any process that activates or increases the frequency, rate or extent of alpha-beta T cell differentiation." [GOC

7549 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8N5F7}

7550 Pathogen[ P0C214] interacts with 1 human partners:{Q8N5F7}

7551 Pathogen[ P03346] interacts with 1 human partners:{Q8N5F7}

7552 Pathogen[ Q85601] interacts with 1 human partners:{Q8N5F7}

7553 Pathogen[ P14079] interacts with 1 human partners:{Q8N5F7}

7554 Pathogen[ P03383] interacts with 1 human partners:{Q8N5F7}

7555 Pathogen[ P14075] interacts with 1 human partners:{Q8N5F7}

7556 Pathogen[ P0C206] interacts with 1 human partners:{Q8N5F7}

7557 Pathogen[ P03363] interacts with 1 human partners:{Q8N5F7}

7558 [Cluster 1227]GO:0051081+P biological\_process [name] nuclear envelope disassembly [def] "The controlled breakdown of the nuclear envelope in the context of a normal process." [GOC

7559 Pathogen[ Q85601] interacts with 1 human partners:{Q9GZM8}

7560 Pathogen[ P14079] interacts with 1 human partners:{Q9GZM8}

7561 Pathogen[ P03410] interacts with 1 human partners:{Q9GZM8}

7562 Pathogen[ P0C206] interacts with 1 human partners:{Q9GZM8}

7563 [Cluster 1228]GO:0032642+P biological\_process [name] regulation of chemokine production [def] "Any process that modulates the frequency, rate, or extent of chemokine production." [GOC

7564 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8IX07}

7565 Pathogen[ P0C214] interacts with 1 human partners:{Q8IX07}

7566 Pathogen[ P03346] interacts with 1 human partners:{Q8IX07}

7567 Pathogen[ Q85601] interacts with 1 human partners:{Q8IX07}

7568 Pathogen[ P14079] interacts with 1 human partners:{Q8IX07}

7569 Pathogen[ P03410] interacts with 1 human partners:{Q8IX07}

7570 Pathogen[ P0C206] interacts with 1 human partners:{Q8IX07}

7571 [Cluster 1229]GO:0061188+P biological\_process [name] negative regulation of chromatin silencing at rDNA [def] "Any process that decreases the rate, frequency, or extent of the repression of transcription of ribosomal DNA by altering the structure of chromatin." [GOC

7572 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9UPP1;075151}

7573 Pathogen[ P0C214] interacts with 2 human partners:{075151;Q9UPP1}

7574 Pathogen[ P03346] interacts with 2 human partners:{075151;Q9UPP1}

7575 Pathogen[ Q85601] interacts with 2 human partners:{075151;Q9UPP1}

7576 Pathogen[ P14079] interacts with 2 human partners:{075151;Q9UPP1}

7577 Pathogen[ P03383] interacts with 2 human partners:{075151;Q9UPP1}

7578 Pathogen[ P03410] interacts with 2 human partners:{Q9UPP1;075151}

7579 Pathogen[ P14075] interacts with 2 human partners:{Q9UPP1;075151}

7580 Pathogen[ P0C206] interacts with 2 human partners:{Q9UPP1;075151}

7581 [Cluster 1230]GO:0002190+P biological\_process [name] cap-independent translational initiation [def] "The process where translation initiation recruits the 40S ribosomal subunits in a Cap and 5' end independent fashion before an AUG codon is encountered in an appropriate sequence context to initiate mRNA translation." [PMID

7582 Pathogen[ P03346] interacts with 1 human partners:{Q9BWF3}

7583 Pathogen[ P03363] interacts with 1 human partners:{Q9BWF3}

7584 [Cluster 1231]GO:0010627+P biological\_process [name] regulation of intracellular protein kinase cascade [def] "Any process that modulates the rate, frequency or extent of a series of reactions, mediated by protein kinases, which occurs as a result of a single trigger reaction or compound." [GOC  
7585 Pathogen[ Q2Q067] interacts with 1 human partners:{Q6NXT1}  
7586 Pathogen[ P0C214] interacts with 1 human partners:{Q6NXT1}  
7587 Pathogen[ P03346] interacts with 1 human partners:{Q6NXT1}  
7588 Pathogen[ Q85601] interacts with 1 human partners:{Q6NXT1}  
7589 Pathogen[ P14079] interacts with 1 human partners:{Q6NXT1}  
7590 Pathogen[ P03410] interacts with 1 human partners:{Q6NXT1}  
7591 Pathogen[ P0C206] interacts with 1 human partners:{Q6NXT1}  
7592 Pathogen[ P03363] interacts with 1 human partners:{Q6NXT1}  
7593 [Cluster 1232]GO:0071449+P biological\_process [name] cellular response to lipid hydroperoxide [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a lipid hydroperoxide stimulus. Lipid hydroperoxide is the highly reactive primary oxygenated products of polyunsaturated fatty acids." [GOC  
7594 Pathogen[ P14079] interacts with 1 human partners:{P10620}  
7595 [Cluster 1233]GO:0048512+P biological\_process [name] circadian behavior [def] "The specific actions or reactions of an organism that recur with a regularity of approximately 24 hours." [GOC  
7596 Pathogen[ P03346] interacts with 1 human partners:{O95343}  
7597 Pathogen[ P03363] interacts with 1 human partners:{O95343}  
7598 [Cluster 1234]GO:0046294+P biological\_process [name] formaldehyde catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of formaldehyde (methanal, H<sub>2</sub>C=O), the simplest aldehyde." [GOC  
7599 Pathogen[ P03346] interacts with 1 human partners:{P10768}  
7600 Pathogen[ Q85601] interacts with 1 human partners:{P10768}  
7601 Pathogen[ P03410] interacts with 1 human partners:{P10768}  
7602 Pathogen[ P0C206] interacts with 1 human partners:{P10768}  
7603 Pathogen[ P03363] interacts with 1 human partners:{P10768}  
7604 [Cluster 1235]GO:0045780+P biological\_process [name] positive regulation of bone resorption [def] "Any process that activates or increases the frequency, rate or extent of bone resorption." [GOC  
7605 Pathogen[ P14079] interacts with 1 human partners:{Q9H295}  
7606 [Cluster 1236]GO:0046166+P biological\_process [name] glyceraldehyde-3-phosphate biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of glyceraldehyde-3-phosphate, an important intermediate in glycolysis." [GOC  
7607 Pathogen[ P0C214] interacts with 1 human partners:{P29401}  
7608 Pathogen[ P14079] interacts with 1 human partners:{P29401}  
7609 Pathogen[ P0C206] interacts with 1 human partners:{P29401}  
7610 [Cluster 1237]GO:0032859+P biological\_process [name] activation of Ral GTPase activity [def] "Any process that initiates the activity of an inactive GTPase of the Ral family through the replacement of GDP by GTP." [GOC  
7611 Pathogen[ P0C214] interacts with 1 human partners:{Q6GYQ0}  
7612 Pathogen[ P03346] interacts with 1 human partners:{Q6GYQ0}  
7613 Pathogen[ P14079] interacts with 1 human partners:{Q86X10}  
7614 [Cluster 1238]GO:0051924+P biological\_process [name] regulation of calcium ion transport [def] "Any process that modulates the frequency, rate or extent of the directed movement of calcium ions into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore." [GOC  
7615 Pathogen[ Q2Q067] interacts with 1 human partners:{P26678}  
7616 Pathogen[ P0C214] interacts with 1 human partners:{P26678}  
7617 Pathogen[ P03346] interacts with 1 human partners:{P26678}  
7618 Pathogen[ P14079] interacts with 2 human partners:{O00631;P26678}  
7619 Pathogen[ P03383] interacts with 1 human partners:{P26678}  
7620 Pathogen[ P03410] interacts with 2 human partners:{P26678;O00631}  
7621 Pathogen[ P14075] interacts with 1 human partners:{P26678}  
7622 Pathogen[ P0C206] interacts with 1 human partners:{P26678}  
7623 [Cluster 1239]GO:0019626+P biological\_process [name] short-chain fatty acid catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of fatty acids with a chain length of less than 8 carbons." [ISBN  
7624 Pathogen[ Q2Q067] interacts with 1 human partners:{P22033}  
7625 Pathogen[ P0C214] interacts with 2 human partners:{P22033;Q96PE7}  
7626 Pathogen[ P03346] interacts with 1 human partners:{Q96PE7}  
7627 Pathogen[ Q85601] interacts with 1 human partners:{P22033}  
7628 Pathogen[ P14079] interacts with 2 human partners:{P22033;Q96PE7}  
7629 Pathogen[ P03383] interacts with 1 human partners:{P22033}  
7630 Pathogen[ P03410] interacts with 2 human partners:{Q96PE7;P22033}  
7631 Pathogen[ P14075] interacts with 1 human partners:{P22033}  
7632 Pathogen[ P0C206] interacts with 2 human partners:{Q96PE7;P22033}  
7633 [Cluster 1240]GO:0035608+P biological\_process [name] protein deglutamylation [def] "The removal of a glutamate residue from a protein. Glutamate residues in proteins can be gene-encoded, or added as side chains during the protein modification process of polyglutamylation." [GOC  
7634 Pathogen[ P14079] interacts with 1 human partners:{Q8NDL9}

7635 Pathogen[ P0C206] interacts with 1 human partners:{Q8NDL9}

7636 [Cluster 1241]GO:0045428+P biological\_process [name] regulation of nitric oxide biosynthetic process [def] "Any process that modulates the frequency, rate or extent of the chemical reactions and pathways resulting in the formation of nitric oxide." [GOC

7637 Pathogen[ P03346] interacts with 1 human partners:{075052}

7638 Pathogen[ P03410] interacts with 1 human partners:{075052}

7639 [Cluster 1242]GO:0009103+P biological\_process [name] lipopolysaccharide biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of lipopolysaccharides, any of a group of related, structurally complex components of the outer membrane of Gram-negative bacteria." [GOC

7640 Pathogen[ P0C214] interacts with 1 human partners:{Q8NFW8}

7641 Pathogen[ P03346] interacts with 1 human partners:{Q8NFW8}

7642 Pathogen[ P14079] interacts with 2 human partners:{Q8NFW8;Q9BT22}

7643 Pathogen[ P03410] interacts with 2 human partners:{Q9BT22;Q8NFW8}

7644 Pathogen[ P0C206] interacts with 1 human partners:{Q8NFW8}

7645 Pathogen[ P03363] interacts with 1 human partners:{Q8NFW8}

7646 [Cluster 1243]GO:0043487+P biological\_process [name] regulation of RNA stability [def] "Any process that modulates the propensity of RNA molecules to degradation. Includes processes that both stabilize and destabilize RNAs." [GOC

7647 Pathogen[ Q2Q067] interacts with 1 human partners:{P59047}

7648 Pathogen[ P0C214] interacts with 1 human partners:{P59047}

7649 Pathogen[ P03346] interacts with 1 human partners:{P59047}

7650 Pathogen[ Q85601] interacts with 1 human partners:{P59047}

7651 Pathogen[ P14079] interacts with 1 human partners:{P59047}

7652 Pathogen[ P03410] interacts with 1 human partners:{P59047}

7653 Pathogen[ P0C206] interacts with 1 human partners:{P59047}

7654 Pathogen[ P03363] interacts with 1 human partners:{P59047}

7655 [Cluster 1244]GO:0007320+P biological\_process [name] insemination [def] "The introduction of semen or sperm into the genital tract of a female." [ISBN

7656 Pathogen[ P14079] interacts with 1 human partners:{P04279}

7657 Pathogen[ P03410] interacts with 1 human partners:{P04279}

7658 [Cluster 1245]GO:0021553+P biological\_process [name] olfactory nerve development [def] "The process whose specific outcome is the progression of the olfactory nerve over time, from its formation to the mature structure. The olfactory nerve is a collection of sensory nerve rootlets that extend down from the olfactory bulb to the olfactory mucosa of the upper parts of the nasal cavity. This nerve conducts odor information to the brainstem." [GO\_REF

7659 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NSC2}

7660 Pathogen[ P0C214] interacts with 1 human partners:{Q9NSC2}

7661 Pathogen[ P03346] interacts with 1 human partners:{Q9NSC2}

7662 Pathogen[ Q85601] interacts with 1 human partners:{Q9NSC2}

7663 Pathogen[ P14079] interacts with 1 human partners:{Q9NSC2}

7664 Pathogen[ P03383] interacts with 1 human partners:{Q9NSC2}

7665 Pathogen[ P03410] interacts with 1 human partners:{Q9NSC2}

7666 Pathogen[ P14075] interacts with 1 human partners:{Q9NSC2}

7667 Pathogen[ P0C206] interacts with 1 human partners:{Q9NSC2}

7668 [Cluster 1246]GO:0072218+P biological\_process [name] metanephric ascending thin limb development [def] "The process whose specific outcome is the progression of a metanephric ascending thin limb over time, from its formation to the mature structure. The metanephric ascending thin limb is a segment of a nephron tubule in the metanephros lying in the inner medulla that is permeable to ions but not to water and has a simple epithelium\_active transepithelial solute transport is absent." [GOC

7669 Pathogen[ P03346] interacts with 1 human partners:{P20264}

7670 Pathogen[ P03363] interacts with 1 human partners:{P20264}

7671 [Cluster 1247]GO:0060997+P biological\_process [name] dendritic spine morphogenesis [def] "The process in which the anatomical structures of a dendritic spine are generated and organized. A dendritic spine is a protrusion from a dendrite and a specialized subcellular compartment involved in synaptic transmission." [GOC

7672 Pathogen[ Q2Q067] interacts with 1 human partners:{P78352}

7673 Pathogen[ P0C214] interacts with 1 human partners:{P78352}

7674 Pathogen[ P03346] interacts with 1 human partners:{P78352}

7675 Pathogen[ Q85601] interacts with 1 human partners:{P78352}

7676 Pathogen[ P03383] interacts with 1 human partners:{P78352}

7677 Pathogen[ P03410] interacts with 1 human partners:{P78352}

7678 Pathogen[ P14075] interacts with 1 human partners:{P78352}

7679 Pathogen[ P0C206] interacts with 1 human partners:{P78352}

7680 Pathogen[ P03363] interacts with 1 human partners:{P78352}

7681 [Cluster 1248]GO:0043506+P biological\_process [name] regulation of JUN kinase activity [def] "Any process that modulates the frequency, rate or extent of JUN kinase activity." [GOC

7682 Pathogen[ P0C214] interacts with 1 human partners:{P35520}

7683 [Cluster 1249]GO:0030948+P biological\_process [name] negative regulation of vascular endothelial growth factor receptor signaling pathway [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of vascular endothelial growth factor receptor signaling pathway activity." [GOC

7684 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UI56}



7685 Pathogen[ P0C214] interacts with 1 human partners:{Q9UI56}

7686 Pathogen[ P03346] interacts with 1 human partners:{Q9UI56}

7687 Pathogen[ P14079] interacts with 1 human partners:{Q9UI56}

7688 Pathogen[ P03383] interacts with 1 human partners:{Q9UI56}

7689 Pathogen[ P03410] interacts with 1 human partners:{Q9UI56}

7690 Pathogen[ P14075] interacts with 1 human partners:{Q9UI56}

7691 Pathogen[ P0C206] interacts with 1 human partners:{Q9UI56}

7692 Pathogen[ P03363] interacts with 1 human partners:{Q9UI56}

7693 [Cluster 1250]GO:0006738+P biological\_process [name] nicotinamide riboside catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of nicotinamide riboside, the product of the formation of a glycosidic bond between ribose and nicotinamide." [ISBN

7694 Pathogen[ P0C214] interacts with 1 human partners:{Q13126}

7695 [Cluster 1251]GO:0044340+P biological\_process [name] canonical Wnt receptor signaling pathway involved in regulation of cell proliferation [def] "The series of molecular signals initiated by binding of a Wnt protein to a frizzled family receptor on the surface of the target cell, followed by propagation of the signal via beta-catenin, and ending with a change in transcription of target genes that contributes to modulating the rate or frequency of cell proliferation." [GOC

7696 Pathogen[ Q2Q067] interacts with 1 human partners:{O14641}

7697 Pathogen[ P0C214] interacts with 1 human partners:{O14641}

7698 Pathogen[ P03346] interacts with 1 human partners:{O14641}

7699 Pathogen[ Q85601] interacts with 1 human partners:{O14641}

7700 Pathogen[ P14079] interacts with 1 human partners:{O14641}

7701 Pathogen[ P03383] interacts with 1 human partners:{O14641}

7702 Pathogen[ P03410] interacts with 1 human partners:{O14641}

7703 Pathogen[ P14075] interacts with 1 human partners:{O14641}

7704 Pathogen[ P03363] interacts with 1 human partners:{O14641}

7705 [Cluster 1252]GO:0042339+P biological\_process [name] keratan sulfate metabolic process [def] "The chemical reactions and pathways involving keratan sulfate, a glycosaminoglycan with repeat units consisting of beta-1,4-linked D-galactopyranosyl-beta-(1,4)-N-acetyl-D-glucosamine 6-sulfate and with variable amounts of fucose, sialic acid and mannose units\_ keratan sulfate chains are covalently linked by a glycosidic attachment through the trisaccharide galactosyl-galactosyl-xylose to peptidyl-threonine or serine residues." [GOC

7706 Pathogen[ P0C214] interacts with 1 human partners:{P16278}

7707 Pathogen[ P03346] interacts with 1 human partners:{P16278}

7708 Pathogen[ P14079] interacts with 2 human partners:{P16278;O43505}

7709 Pathogen[ P03410] interacts with 2 human partners:{P16278;O43505}

7710 Pathogen[ P14075] interacts with 1 human partners:{O43505}

7711 Pathogen[ P0C206] interacts with 2 human partners:{P16278;O43505}

7712 [Cluster 1253]GO:0060947+P biological\_process [name] cardiac vascular smooth muscle cell differentiation [def] "The process in which a relatively unspecialized cell acquires specialized features of a cardiac vascular smooth muscle cell. A cardiac vascular smooth muscle cell covers the heart vasculature and lacks transverse striations in its constituent fibers." [GOC

7713 Pathogen[ Q2Q067] interacts with 1 human partners:{P11831}

7714 Pathogen[ P0C214] interacts with 1 human partners:{P11831}

7715 Pathogen[ P03346] interacts with 1 human partners:{P11831}

7716 Pathogen[ Q85601] interacts with 1 human partners:{P11831}

7717 Pathogen[ P03383] interacts with 1 human partners:{P11831}

7718 Pathogen[ P03410] interacts with 1 human partners:{P11831}

7719 Pathogen[ P14075] interacts with 1 human partners:{P11831}

7720 Pathogen[ P0C206] interacts with 1 human partners:{P11831}

7721 Pathogen[ P03363] interacts with 1 human partners:{P11831}

7722 [Cluster 1254]GO:0015908+P biological\_process [name] fatty acid transport [def] "The directed movement of fatty acids into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore. Fatty acids are aliphatic monocarboxylic acids liberated from naturally occurring fats and oils by hydrolysis." [GOC

7723 Pathogen[ Q2Q067] interacts with 1 human partners:{P20823}

7724 Pathogen[ P03346] interacts with 1 human partners:{P20823}

7725 Pathogen[ Q85601] interacts with 1 human partners:{P20823}

7726 Pathogen[ P0C206] interacts with 1 human partners:{P20823}

7727 [Cluster 1255]GO:0042761+P biological\_process [name] very long-chain fatty acid biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of fatty acids with a chain length of C18 or greater." [GOC

7728 Pathogen[ Q2Q067] interacts with 4 human partners:{Q9BW60;Q9GZR5;A1L3X0;Q9HB03}

7729 Pathogen[ P0C214] interacts with 6 human partners:{Q9NXB9;Q9GZR5;Q9HB03;Q9NYP7;A1L3X0;Q9BW60}

7730 Pathogen[ P03346] interacts with 2 human partners:{Q9BW60;Q9HB03}

7731 Pathogen[ Q85601] interacts with 4 human partners:{A1L3X0;Q9BW60;Q9HB03;Q9GZR5}

7732 Pathogen[ P14079] interacts with 4 human partners:{A1L3X0;Q9HB03;Q9GZR5;Q9BW60}

7733 Pathogen[ P03383] interacts with 4 human partners:{Q9BW60;Q9GZR5;A1L3X0;Q9HB03}

7734 Pathogen[ P03410] interacts with 4 human partners:{A1L3X0;Q9GZR5;Q9BW60;Q9HB03}

7735 Pathogen[ P14075] interacts with 4 human partners:{Q9BW60;Q9HB03;A1L3X0;Q9GZR5}

7736 Pathogen[ POC206] interacts with 4 human partners:{Q9HB03;Q9GZR5;A1L3X0;Q9BW60}

7737 [Cluster 1256]GO:0070345+P biological\_process [name] negative regulation of fat cell proliferation [def] "Any process that stops or decreases the rate or extent of fat cell proliferation." [GOC

7738 Pathogen[ Q2Q067] interacts with 1 human partners:{P23769}

7739 Pathogen[ POC214] interacts with 1 human partners:{P23769}

7740 Pathogen[ P03346] interacts with 1 human partners:{P23769}

7741 Pathogen[ Q85601] interacts with 1 human partners:{P23769}

7742 Pathogen[ P14079] interacts with 1 human partners:{P23769}

7743 Pathogen[ P03383] interacts with 1 human partners:{P23769}

7744 Pathogen[ P03410] interacts with 1 human partners:{P23769}

7745 Pathogen[ P14075] interacts with 1 human partners:{P23769}

7746 Pathogen[ POC206] interacts with 1 human partners:{P23769}

7747 [Cluster 1257]GO:0009298+P biological\_process [name] GDP-mannose biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of GDP-mannose, a substance composed of mannose in glycosidic linkage with guanosine diphosphate." [GOC

7748 Pathogen[ Q2Q067] interacts with 1 human partners:{P34949}

7749 Pathogen[ POC214] interacts with 2 human partners:{P34949;O15305}

7750 Pathogen[ P03346] interacts with 1 human partners:{P34949}

7751 Pathogen[ Q85601] interacts with 1 human partners:{P34949}

7752 Pathogen[ P14079] interacts with 2 human partners:{O15305;P34949}

7753 Pathogen[ P03383] interacts with 1 human partners:{P34949}

7754 Pathogen[ P03410] interacts with 2 human partners:{P34949;O15305}

7755 Pathogen[ P14075] interacts with 1 human partners:{P34949}

7756 Pathogen[ POC206] interacts with 1 human partners:{P34949}

7757 [Cluster 1258]GO:0021521+P biological\_process [name] ventral spinal cord interneuron specification [def] "The process in which a cell becomes capable of differentiating autonomously into a ventral spinal cord interneuron in an environment that is neutral with respect to the developmental pathway." [GO\_REF

7758 Pathogen[ P03346] interacts with 1 human partners:{Q9UBR4}

7759 Pathogen[ POC206] interacts with 1 human partners:{Q9UBR4}

7760 [Cluster 1259]GO:2000627+P biological\_process [name] positive regulation of miRNA catabolic process [def] "Any process that activates or increases the frequency, rate or extent of miRNA catabolic process." [GOC

7761 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8TCS8}

7762 Pathogen[ POC214] interacts with 1 human partners:{Q8TCS8}

7763 Pathogen[ P03346] interacts with 1 human partners:{Q8TCS8}

7764 Pathogen[ Q85601] interacts with 1 human partners:{Q8TCS8}

7765 Pathogen[ P14079] interacts with 1 human partners:{Q8TCS8}

7766 Pathogen[ P03383] interacts with 1 human partners:{Q8TCS8}

7767 Pathogen[ P03410] interacts with 1 human partners:{Q8TCS8}

7768 Pathogen[ P14075] interacts with 1 human partners:{Q8TCS8}

7769 Pathogen[ POC206] interacts with 1 human partners:{Q8TCS8}

7770 [Cluster 1260]GO:0051970+P biological\_process [name] negative regulation of transmission of nerve impulse [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of transmission of a nerve impulse, the sequential electrochemical polarization and depolarization that travels across the membrane of a neuron in response to stimulation." [GOC

7771 Pathogen[ P14079] interacts with 1 human partners:{O43612}

7772 Pathogen[ P03410] interacts with 1 human partners:{O43612}

7773 [Cluster 1261]GO:0061153+P biological\_process [name] trachea gland development [def] "The progression of a trachea gland over time, from its formation to the mature structure. Trachea glands are found under the mucus of the trachea and secrete mucus, and agents that help protect the lung from injury and infection." [GOC

7774 Pathogen[ P14079] interacts with 1 human partners:{Q8WWZ3}

7775 [Cluster 1262]GO:0060558+P biological\_process [name] regulation of calcidiol 1-monooxygenase activity [def] "Any process that modulates the rate, frequency or extent of calcidiol 1-monooxygenase activity. Calcidiol 1-monooxygenase activity is catalysis of the reaction

7776 Pathogen[ Q2Q067] interacts with 1 human partners:{P11473}

7777 Pathogen[ P03346] interacts with 1 human partners:{P11473}

7778 Pathogen[ Q85601] interacts with 1 human partners:{P11473}

7779 Pathogen[ P14079] interacts with 1 human partners:{P11473}

7780 Pathogen[ P03383] interacts with 1 human partners:{P11473}

7781 Pathogen[ P03410] interacts with 1 human partners:{P11473}

7782 Pathogen[ P14075] interacts with 1 human partners:{P11473}

7783 Pathogen[ POC206] interacts with 1 human partners:{P11473}

7784 Pathogen[ P03363] interacts with 1 human partners:{P11473}

7785 [Cluster 1263]GO:0021683+P biological\_process [name] cerebellar granular layer morphogenesis [def] "The process in which the anatomical structure of the cerebellar granular layer is generated and organized. The granular layer is the innermost layer of the cerebellar cortex. This layer contains densely packed small neurons, mostly granule cells. Some Golgi cells are found at the outer border. Granule neurons send parallel fibers to the upper molecular layer, where they synapse with Purkinje cell dendrites. Mossy fibers from the pontine nuclei in the white matter synapse with granule cell axons, Golgi cell axons and unipolar brush interneuron axons at cerebellar glomeruli in

the granule cell layer." [GO\_REF

7786 Pathogen[ P0C214] interacts with 1 human partners:{P07093}

7787 Pathogen[ Q85601] interacts with 1 human partners:{P07093}

7788 [Cluster 1264]GO:0021523+P biological\_process [name] somatic motor neuron differentiation [def] "The process in which neuroepithelial cells in the neural tube acquire specialized structural and/or functional features of somatic motor neurons. Somatic motor neurons innervate skeletal muscle targets and are responsible for transmission of motor impulses from the brain to the periphery. Differentiation includes the processes involved in commitment of a cell to a specific fate." [GO\_REF

7789 Pathogen[ Q2Q067] interacts with 1 human partners:{O14813}

7790 Pathogen[ P0C214] interacts with 1 human partners:{O14813}

7791 Pathogen[ P03346] interacts with 1 human partners:{O14813}

7792 Pathogen[ Q85601] interacts with 1 human partners:{O14813}

7793 Pathogen[ P14079] interacts with 1 human partners:{O14813}

7794 Pathogen[ P03410] interacts with 2 human partners:{O14813;Q9UBY8}

7795 Pathogen[ P0C206] interacts with 1 human partners:{O14813}

7796 Pathogen[ P03363] interacts with 1 human partners:{O14813}

7797 [Cluster 1265]GO:2000679+P biological\_process [name] positive regulation of transcription regulatory region DNA binding [def] "Any process that activates or increases the frequency, rate or extent of transcription regulatory region DNA binding." [GOC

7798 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13562}

7799 Pathogen[ P03346] interacts with 1 human partners:{Q13562}

7800 Pathogen[ Q85601] interacts with 1 human partners:{Q13562}

7801 Pathogen[ P0C206] interacts with 1 human partners:{Q13562}

7802 [Cluster 1266]GO:0043372+P biological\_process [name] positive regulation of CD4-positive, alpha-beta T cell differentiation [def] "Any process that activates or increases the frequency, rate or extent of CD4-positive, alpha beta T cell differentiation." [GOC

7803 Pathogen[ P03346] interacts with 1 human partners:{O75995}

7804 [Cluster 1267]GO:0002347+P biological\_process [name] response to tumor cell [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a stimulus from a tumor cell." [GOC

7805 Pathogen[ P03346] interacts with 1 human partners:{P50135}

7806 Pathogen[ P14079] interacts with 1 human partners:{P50135}

7807 Pathogen[ P03410] interacts with 1 human partners:{P50135}

7808 Pathogen[ P0C206] interacts with 1 human partners:{P50135}

7809 Pathogen[ P03363] interacts with 1 human partners:{P50135}

7810 [Cluster 1268]GO:0001952+P biological\_process [name] regulation of cell-matrix adhesion [def] "Any process that modulates the frequency, rate or extent of attachment of a cell to the extracellular matrix." [GOC

7811 Pathogen[ Q2Q067] interacts with 2 human partners:{P13349;O95948}

7812 Pathogen[ P0C214] interacts with 2 human partners:{P13349;O95948}

7813 Pathogen[ P03346] interacts with 3 human partners:{P13349;Q9UBC0;O95948}

7814 Pathogen[ Q85601] interacts with 2 human partners:{P13349;O95948}

7815 Pathogen[ P14079] interacts with 2 human partners:{P13349;O95948}

7816 Pathogen[ P03410] interacts with 2 human partners:{O95948;P13349}

7817 Pathogen[ P0C206] interacts with 3 human partners:{Q9UBC0;P13349;O95948}

7818 Pathogen[ P03363] interacts with 3 human partners:{Q9UBC0;O95948;P13349}

7819 [Cluster 1269]GO:0032764+P biological\_process [name] negative regulation of mast cell cytokine production [def] "Any process that stops, prevents, or reduces the frequency, rate, or extent of mast cell cytokine production." [GOC

7820 Pathogen[ Q2Q067] interacts with 1 human partners:{P41182}

7821 Pathogen[ P0C214] interacts with 1 human partners:{P41182}

7822 Pathogen[ P03346] interacts with 1 human partners:{P41182}

7823 Pathogen[ Q85601] interacts with 1 human partners:{P41182}

7824 Pathogen[ P14079] interacts with 1 human partners:{P41182}

7825 Pathogen[ P03410] interacts with 1 human partners:{P41182}

7826 Pathogen[ P0C206] interacts with 1 human partners:{P41182}

7827 [Cluster 1270]GO:0050650+P biological\_process [name] chondroitin sulfate proteoglycan biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of chondroitin sulfate proteoglycan, any glycoprotein whose glycosaminoglycan units are chondroitin sulfate. Chondroitin sulfates are a group of 10-60 kDa glycosaminoglycans, widely distributed in cartilage and other mammalian connective tissues\_ the repeat units consist of beta-(1,4)-linked D-glucuronyl beta-(1,3)-N-acetyl-D-galactosamine sulfate." [GOC

7828 Pathogen[ P03410] interacts with 1 human partners:{Q9NRR1}

7829 [Cluster 1271]GO:0072164+P biological\_process [name] mesonephric tubule development [def] "The progression of a mesonephric tubule over time, from its initial formation to the mature structure. A mesonephric tubule is an epithelial tube that is part of the mesonephros." [GOC

7830 Pathogen[ Q2Q067] interacts with 1 human partners:{P35680}

7831 Pathogen[ P03346] interacts with 2 human partners:{Q06710;P35680}

7832 Pathogen[ Q85601] interacts with 1 human partners:{P35680}

7833 Pathogen[ P14079] interacts with 1 human partners:{P35680}

7834 Pathogen[ P03410] interacts with 1 human partners:{P35680}

7835 Pathogen[ P0C206] interacts with 1 human partners:{P35680}

7836 [Cluster 1272]GO:2000270+P biological\_process [name] negative regulation of fibroblast apoptosis [def] "Any process that stops, prevents or reduces the frequency, rate or extent of fibroblast apoptosis." [GOC

7837 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8IXT1}

7838 Pathogen[ P0C214] interacts with 1 human partners:{Q8IXT1}

7839 Pathogen[ P03346] interacts with 1 human partners:{Q8IXT1}

7840 Pathogen[ P14079] interacts with 1 human partners:{Q8IXT1}

7841 Pathogen[ P03383] interacts with 1 human partners:{Q8IXT1}

7842 Pathogen[ P03410] interacts with 1 human partners:{Q8IXT1}

7843 Pathogen[ P14075] interacts with 1 human partners:{Q8IXT1}

7844 Pathogen[ P0C206] interacts with 1 human partners:{Q8IXT1}

7845 Pathogen[ P03363] interacts with 1 human partners:{Q8IXT1}

7846 [Cluster 1273]GO:0070318+P biological\_process [name] positive regulation of G0 to G1 transition [def] "A cell cycle process that activates or increases the rate or extent of the transition from the G0 quiescent state to the G1 phase." [GOC

7847 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BSD3}

7848 Pathogen[ P0C214] interacts with 1 human partners:{Q9BSD3}

7849 Pathogen[ P03346] interacts with 1 human partners:{Q9BSD3}

7850 Pathogen[ P14079] interacts with 1 human partners:{Q9BSD3}

7851 Pathogen[ P03383] interacts with 1 human partners:{Q9BSD3}

7852 Pathogen[ P03410] interacts with 1 human partners:{Q9BSD3}

7853 Pathogen[ P14075] interacts with 1 human partners:{Q9BSD3}

7854 Pathogen[ P0C206] interacts with 1 human partners:{Q9BSD3}

7855 Pathogen[ P03363] interacts with 1 human partners:{Q9BSD3}

7856 [Cluster 1274]GO:0044265+P biological\_process [name] cellular macromolecule catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of a macromolecule, any large molecule including proteins, nucleic acids and carbohydrates, as carried out by individual cells." [CHEBI

7857 Pathogen[ P14079] interacts with 1 human partners:{Q9NWW5}

7858 Pathogen[ P03410] interacts with 2 human partners:{Q9NWW5;Q9UBY8}

7859 [Cluster 1275]GO:0045820+P biological\_process [name] negative regulation of glycolysis [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of glycolysis." [GOC

7860 Pathogen[ Q2Q067] interacts with 2 human partners:{P56524;P09467}

7861 Pathogen[ P0C214] interacts with 2 human partners:{P56524;P09467}

7862 Pathogen[ P03346] interacts with 2 human partners:{P56524;P09467}

7863 Pathogen[ Q85601] interacts with 2 human partners:{P09467;P56524}

7864 Pathogen[ P14079] interacts with 4 human partners:{Q9NX09;P46695;P09467;P56524}

7865 Pathogen[ P03383] interacts with 2 human partners:{P09467;P56524}

7866 Pathogen[ P03410] interacts with 4 human partners:{P09467;P56524;P46695;Q9NX09}

7867 Pathogen[ P14075] interacts with 2 human partners:{P56524;P09467}

7868 Pathogen[ P0C206] interacts with 2 human partners:{P09467;P56524}

7869 [Cluster 1276]GO:0033326+P biological\_process [name] cerebrospinal fluid secretion [def] "The regulated release of cerebrospinal fluid (CSF) from the choroid plexus of the lateral, third and fourth ventricles. The cerebrospinal fluid is a clear liquid that located within the ventricles, spinal canal, and subarachnoid spaces." [GOC

7870 Pathogen[ Q2Q067] interacts with 1 human partners:{O15350}

7871 Pathogen[ P0C214] interacts with 1 human partners:{O15350}

7872 Pathogen[ P03346] interacts with 1 human partners:{O15350}

7873 Pathogen[ Q85601] interacts with 1 human partners:{O15350}

7874 Pathogen[ P14079] interacts with 1 human partners:{O15350}

7875 Pathogen[ P03383] interacts with 1 human partners:{O15350}

7876 Pathogen[ P03410] interacts with 1 human partners:{O15350}

7877 Pathogen[ P14075] interacts with 1 human partners:{O15350}

7878 Pathogen[ P0C206] interacts with 1 human partners:{O15350}

7879 [Cluster 1277]GO:0006101+P biological\_process [name] citrate metabolic process [def] "The chemical reactions and pathways involving citrate, 2-hydroxy-1,2,3-propanetricarboxylate. Citrate is widely distributed in nature and is an important intermediate in the TCA cycle and the glyoxylate cycle." [ISBN

7880 Pathogen[ Q2Q067] interacts with 1 human partners:{P21399}

7881 Pathogen[ P0C214] interacts with 4 human partners:{O75390;P53396;Q99798;P21399}

7882 Pathogen[ P03346] interacts with 2 human partners:{O75390;P21399}

7883 Pathogen[ Q85601] interacts with 1 human partners:{P21399}

7884 Pathogen[ P14079] interacts with 1 human partners:{P21399}

7885 Pathogen[ P03410] interacts with 2 human partners:{P21399;O75390}

7886 Pathogen[ P0C206] interacts with 3 human partners:{O75390;Q99798;P21399}

7887 [Cluster 1278]GO:0009595+P biological\_process [name] detection of biotic stimulus [def] "The series of events in which a biotic stimulus, one caused or produced by a living organism, is received and converted into a molecular signal." [GOC

7888 Pathogen[ P14079] interacts with 1 human partners:{Q9Y239}

7889 Pathogen[ P03410] interacts with 1 human partners:{Q9Y239}

7890 [Cluster 1279]GO:0007631+P biological\_process [name] feeding behavior [def] "Behavior associated with the intake of food." [GOC

7891 Pathogen[ P0C214] interacts with 1 human partners:{Q6Y7W6}

7892 Pathogen[ Q85601] interacts with 1 human partners:{Q6Y7W6}

7893 Pathogen[ P14079] interacts with 4 human partners:{Q6Y7W6;O43612;Q8N729;P81277}

7894 Pathogen[ P03410] interacts with 4 human partners:{Q8N729;O43612;Q6Y7W6;P81277}

7895 Pathogen[ P0C206] interacts with 2 human partners:{Q8N729;Q6Y7W6}

7896 Pathogen[ P03363] interacts with 1 human partners:{Q8N729}

7897 [Cluster 1280]GO:0060296+P biological\_process [name] regulation of cilium beat frequency involved in ciliary motility [def] "Any process that modulates the frequency of cilium beating involved in ciliary motility." [GOC

7898 Pathogen[ P14079] interacts with 1 human partners:{Q6IQ19}

7899 Pathogen[ P03410] interacts with 1 human partners:{Q6IQ19}

7900 Pathogen[ P14075] interacts with 1 human partners:{Q6IQ19}

7901 Pathogen[ P0C206] interacts with 1 human partners:{Q6IQ19}

7902 Pathogen[ P03363] interacts with 1 human partners:{Q6IQ19}

7903 [Cluster 1281]GO:0014054+P biological\_process [name] positive regulation of gamma-aminobutyric acid secretion [def] "Any process that activates or increases the frequency, rate or extent of the regulated release of gamma-aminobutyric acid." [GOC

7904 Pathogen[ P14079] interacts with 1 human partners:{P20396}

7905 Pathogen[ P03410] interacts with 1 human partners:{P20396}

7906 Pathogen[ P0C206] interacts with 1 human partners:{P20396}

7907 [Cluster 1282]GO:0050921+P biological\_process [name] positive regulation of chemotaxis [def] "Any process that activates or increases the frequency, rate or extent of the directed movement of a motile cell or organism in response to a specific chemical concentration gradient." [GOC

7908 Pathogen[ Q2Q067] interacts with 1 human partners:{P49593}

7909 Pathogen[ P0C214] interacts with 1 human partners:{P49593}

7910 Pathogen[ P03346] interacts with 1 human partners:{P49593}

7911 Pathogen[ Q85601] interacts with 1 human partners:{P49593}

7912 Pathogen[ P14079] interacts with 1 human partners:{P49593}

7913 Pathogen[ P03410] interacts with 1 human partners:{P49593}

7914 Pathogen[ P0C206] interacts with 1 human partners:{P49593}

7915 [Cluster 1283]GO:0006875+P biological\_process [name] cellular metal ion homeostasis [def] "Any process involved in the maintenance of an internal steady state of metal ions at the level of a cell." [GOC

7916 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y4I5}

7917 Pathogen[ P14079] interacts with 2 human partners:{P47944;Q9Y4I5}

7918 Pathogen[ P03410] interacts with 2 human partners:{P47944;Q9Y4I5}

7919 Pathogen[ P14075] interacts with 1 human partners:{P47944}

7920 Pathogen[ P0C206] interacts with 2 human partners:{Q9Y4I5;P47944}

7921 [Cluster 1284]GO:0071901+P biological\_process [name] negative regulation of protein serine/threonine kinase activity [def] "Any process that decreases the rate, frequency, or extent of protein serine/threonine kinase activity." [GOC

7922 Pathogen[ Q2Q067] interacts with 1 human partners:{Q7Z699}

7923 Pathogen[ P0C214] interacts with 1 human partners:{Q7Z699}

7924 Pathogen[ P03346] interacts with 1 human partners:{Q7Z699}

7925 Pathogen[ Q85601] interacts with 1 human partners:{Q7Z699}

7926 Pathogen[ P14079] interacts with 1 human partners:{Q7Z699}

7927 Pathogen[ P03410] interacts with 1 human partners:{Q7Z699}

7928 Pathogen[ P0C206] interacts with 1 human partners:{Q7Z699}

7929 Pathogen[ P03363] interacts with 1 human partners:{Q7Z699}

7930 [Cluster 1285]GO:0050849+P biological\_process [name] negative regulation of calcium-mediated signaling [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of calcium-mediated signaling." [GOC

7931 Pathogen[ P03346] interacts with 1 human partners:{Q9H6Q3}

7932 Pathogen[ Q85601] interacts with 1 human partners:{Q9H6Q3}

7933 Pathogen[ P14079] interacts with 1 human partners:{Q9H6Q3}

7934 Pathogen[ P03410] interacts with 1 human partners:{Q9H6Q3}

7935 Pathogen[ P0C206] interacts with 1 human partners:{Q9H6Q3}

7936 Pathogen[ P03363] interacts with 1 human partners:{Q9H6Q3}

7937 [Cluster 1286]GO:0031058+P biological\_process [name] positive regulation of histone modification [def] "Any process that activates or increases the frequency, rate or extent of the covalent alteration of a histone." [GOC

7938 Pathogen[ Q2Q067] interacts with 1 human partners:{P61088}

7939 Pathogen[ P0C214] interacts with 1 human partners:{P61088}

7940 Pathogen[ P03346] interacts with 1 human partners:{P61088}

7941 Pathogen[ Q85601] interacts with 1 human partners:{P61088}

7942 Pathogen[ P03383] interacts with 1 human partners:{P61088}

7943 Pathogen[ P03410] interacts with 1 human partners:{P61088}

7944 Pathogen[ P14075] interacts with 1 human partners:{P61088}

7945 Pathogen[ P0C206] interacts with 1 human partners:{P61088}

7946 Pathogen[ P03363] interacts with 1 human partners:{P61088}

7947 [Cluster 1287]GO:0035026+P biological\_process [name] leading edge cell differentiation [def] "The process in which relatively unspecialized cells acquire specialized structural and/or functional features of leading edge cells, cells at the front of a migrating epithelial sheet." [GOC

7948 Pathogen[ P0C214] interacts with 1 human partners:{P05412}

7949 Pathogen[ P03346] interacts with 1 human partners:{P05412}

7950 Pathogen[ Q85601] interacts with 1 human partners:{P05412}

7951 Pathogen[ P14079] interacts with 1 human partners:{P05412}

7952 Pathogen[ P03383] interacts with 1 human partners:{P05412}

7953 Pathogen[ P03410] interacts with 1 human partners:{P05412}

7954 Pathogen[ P14075] interacts with 1 human partners:{P05412}

7955 Pathogen[ P0C206] interacts with 1 human partners:{P05412}

7956 Pathogen[ P03363] interacts with 1 human partners:{P05412}

7957 [Cluster 1288]GO:0019557+P biological\_process [name] histidine catabolic process to glutamate and formate [def] "The chemical reactions and pathways resulting in the breakdown of histidine into other compounds, including glutamate and formate." [GOC

7958 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96NU7}

7959 Pathogen[ P0C214] interacts with 1 human partners:{Q96NU7}

7960 Pathogen[ P03346] interacts with 1 human partners:{Q96NU7}

7961 Pathogen[ P14079] interacts with 4 human partners:{P42357;Q96NU7;Q96N76;O95954}

7962 Pathogen[ P03410] interacts with 3 human partners:{O95954;Q96NU7;Q96N76}

7963 Pathogen[ P14075] interacts with 1 human partners:{Q96NU7}

7964 Pathogen[ P0C206] interacts with 2 human partners:{O95954;Q96NU7}

7965 [Cluster 1289]GO:0071336+P biological\_process [name] regulation of hair follicle cell proliferation [def] "Any process that modulates the frequency, rate or extent of hair follicle cell proliferation." [GOC

7966 Pathogen[ Q2Q067] interacts with 1 human partners:{Q01196}

7967 Pathogen[ P03346] interacts with 1 human partners:{Q01196}

7968 [Cluster 1290]GO:0002820+P biological\_process [name] negative regulation of adaptive immune response [def] "Any process that stops, prevents, or reduces the frequency, rate, or extent of an adaptive immune response." [GOC

7969 Pathogen[ Q2Q067] interacts with 1 human partners:{P14373}

7970 Pathogen[ P0C214] interacts with 1 human partners:{P14373}

7971 Pathogen[ P03346] interacts with 2 human partners:{P14373;Q9NSI8}

7972 Pathogen[ Q85601] interacts with 1 human partners:{P14373}

7973 Pathogen[ P14079] interacts with 1 human partners:{P14373}

7974 Pathogen[ P0C206] interacts with 1 human partners:{P14373}

7975 Pathogen[ P03363] interacts with 2 human partners:{Q9NSI8;P14373}

7976 [Cluster 1291]GO:0001921+P biological\_process [name] positive regulation of receptor recycling [def] "Any process that activates or increases the frequency, rate or extent of receptor recycling." [GOC

7977 Pathogen[ Q2Q067] interacts with 1 human partners:{Q14160}

7978 Pathogen[ P0C214] interacts with 1 human partners:{Q14160}

7979 Pathogen[ P03346] interacts with 1 human partners:{Q14160}

7980 Pathogen[ Q85601] interacts with 1 human partners:{Q14160}

7981 Pathogen[ P03383] interacts with 1 human partners:{Q14160}

7982 Pathogen[ P03410] interacts with 2 human partners:{O60896;Q14160}

7983 Pathogen[ P14075] interacts with 1 human partners:{Q14160}

7984 Pathogen[ P0C206] interacts with 1 human partners:{Q14160}

7985 Pathogen[ P03363] interacts with 1 human partners:{Q14160}

7986 [Cluster 1292]GO:0060478+P biological\_process [name] acrosomal vesicle exocytosis [def] "The release of intracellular molecules contained within the acrosomal granule by fusion of the vesicle with the plasma membrane of the oocyte, requiring calcium ions." [GOC

7987 Pathogen[ P14079] interacts with 1 human partners:{Q9NQ60}

7988 Pathogen[ P03410] interacts with 1 human partners:{Q9NQ60}

7989 [Cluster 1293]GO:0006097+P biological\_process [name] glyoxylate cycle [def] "A modification of the TCA cycle occurring in some plants and microorganisms, in which isocitrate is cleaved to glyoxylate and succinate. Glyoxylate can then react with acetyl-CoA to form malate." [ISBN

7990 Pathogen[ P0C214] interacts with 2 human partners:{O75874;P48735}

7991 [Cluster 1294]GO:0035247+P biological\_process [name] peptidyl-arginine omega-N-methylation [def] "The addition of a methyl group onto a terminal nitrogen (omega nitrogen) atom of an arginine residue in a protein." [PMID

7992 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NVM4}

7993 Pathogen[ P0C214] interacts with 1 human partners:{Q9NVM4}

7994 Pathogen[ P03346] interacts with 1 human partners:{Q9NVM4}

7995 Pathogen[ Q85601] interacts with 1 human partners:{Q9NVM4}

7996 Pathogen[ P14079] interacts with 1 human partners:{Q9NVM4}

7997 Pathogen[ P03410] interacts with 1 human partners:{Q9NVM4}

7998 Pathogen[ P0C206] interacts with 1 human partners:{Q9NVM4}

7999 Pathogen[ P03363] interacts with 1 human partners:{Q9NVM4}

8000 [Cluster 1295]GO:0072393+P biological\_process [name] microtubule anchoring at microtubule organizing center [def] "Any process in which a microtubule is maintained in a specific location in a cell by attachment to a microtubule organizing center." [GOC

8001 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8TD16}

8002 Pathogen[ P0C214] interacts with 2 human partners:{Q8TD16;Q96G01}

8003 Pathogen[ P03346] interacts with 2 human partners:{Q96G01;Q8TD16}

8004 Pathogen[ Q85601] interacts with 2 human partners:{Q96G01;Q8TD16}

8005 Pathogen[ P14079] interacts with 2 human partners:{Q96G01;Q8TD16}

8006 Pathogen[ P03410] interacts with 2 human partners:{Q8TD16;Q96G01}

8007 Pathogen[ P0C206] interacts with 2 human partners:{Q8TD16;Q96G01}

8008 Pathogen[ P03363] interacts with 1 human partners:{Q8TD16}

8009 [Cluster 1296]GO:0071731+P biological\_process [name] response to nitric oxide [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a nitric oxide stimulus." [GOC]

8010 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9GZT9}

8011 Pathogen[ P0C214] interacts with 1 human partners:{Q9GZT9}

8012 Pathogen[ P03346] interacts with 1 human partners:{Q9GZT9}

8013 Pathogen[ Q85601] interacts with 1 human partners:{Q9GZT9}

8014 Pathogen[ P14079] interacts with 1 human partners:{Q9GZT9}

8015 Pathogen[ P03410] interacts with 1 human partners:{Q9GZT9}

8016 Pathogen[ P14075] interacts with 1 human partners:{Q9GZT9}

8017 Pathogen[ P0C206] interacts with 1 human partners:{Q9GZT9}

8018 [Cluster 1297]GO:0071504+P biological\_process [name] cellular response to heparin [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a heparin stimulus." [GOC]

8019 Pathogen[ Q2Q067] interacts with 1 human partners:{P18146}

8020 Pathogen[ P0C214] interacts with 1 human partners:{P18146}

8021 Pathogen[ P03346] interacts with 1 human partners:{P18146}

8022 Pathogen[ Q85601] interacts with 1 human partners:{P18146}

8023 Pathogen[ P03383] interacts with 1 human partners:{P18146}

8024 Pathogen[ P03410] interacts with 1 human partners:{P18146}

8025 Pathogen[ P14075] interacts with 1 human partners:{P18146}

8026 Pathogen[ P0C206] interacts with 1 human partners:{P18146}

8027 Pathogen[ P03363] interacts with 1 human partners:{P18146}

8028 [Cluster 1298]GO:0048858+P biological\_process [name] cell projection morphogenesis [def] "The process in which the anatomical structures of a cell projection are generated and organized." [GO\_REF]

8029 Pathogen[ P14079] interacts with 1 human partners:{P48681}

8030 [Cluster 1299]GO:0048485+P biological\_process [name] sympathetic nervous system development [def] "The process whose specific outcome is the progression of the sympathetic nervous system over time, from its formation to the mature structure. The sympathetic nervous system is one of the two divisions of the vertebrate autonomic nervous system (the other being the parasympathetic nervous system). The sympathetic preganglionic neurons have their cell bodies in the thoracic and lumbar regions of the spinal cord and connect to the paravertebral chain of sympathetic ganglia. Innervate heart and blood vessels, sweat glands, viscera and the adrenal medulla. Most sympathetic neurons, but not all, use noradrenaline as a post-ganglionic neurotransmitter." [FMA]

8031 Pathogen[ Q2Q067] interacts with 2 human partners:{O14786;O14813}

8032 Pathogen[ P0C214] interacts with 2 human partners:{O14813;O14786}

8033 Pathogen[ P03346] interacts with 5 human partners:{Q06945;O14813;Q92481;O14786;Q9UJU5}

8034 Pathogen[ Q85601] interacts with 2 human partners:{O14813;O14786}

8035 Pathogen[ P14079] interacts with 1 human partners:{O14813}

8036 Pathogen[ P03410] interacts with 2 human partners:{O14813;O14786}

8037 Pathogen[ P0C206] interacts with 2 human partners:{O14786;O14813}

8038 Pathogen[ P03363] interacts with 3 human partners:{O14786;Q9UJU5;O14813}

8039 [Cluster 1300]GO:1900103+P

8040 Pathogen[ Q2Q067] interacts with 1 human partners:{P17861}

8041 Pathogen[ P0C214] interacts with 1 human partners:{P17861}

8042 Pathogen[ P03346] interacts with 1 human partners:{P17861}

8043 Pathogen[ Q85601] interacts with 1 human partners:{P17861}

8044 Pathogen[ P03383] interacts with 1 human partners:{P17861}

8045 Pathogen[ P03410] interacts with 1 human partners:{P17861}

8046 Pathogen[ P14075] interacts with 1 human partners:{P17861}

8047 Pathogen[ P0C206] interacts with 1 human partners:{P17861}

8048 Pathogen[ P03363] interacts with 1 human partners:{P17861}

8049 [Cluster 1301]GO:0070244+P biological\_process [name] negative regulation of thymocyte apoptosis [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of thymocyte death by apoptosis." [GOC]

8050 Pathogen[ P03346] interacts with 1 human partners:{Q6ISU1}

8051 Pathogen[ P14079] interacts with 1 human partners:{Q6ISU1}

8052 Pathogen[ P03410] interacts with 1 human partners:{Q6ISU1}

8053 Pathogen[ P0C206] interacts with 1 human partners:{Q6ISU1}

8054 Pathogen[ P03363] interacts with 1 human partners:{Q6ISU1}

8055 [Cluster 1302]GO:0006853+P biological\_process [name] carnitine shuttle [def] "The transfer of acyl groups to and from acyl-CoA molecules to form O-acylcarnitine, which can exchange across the mitochondrial inner membrane with unacylated carnitine." [ISBN]

8056 Pathogen[ P0C214] interacts with 1 human partners:{P23786}

8057 Pathogen[ P03346] interacts with 1 human partners:{P23786}

8058 Pathogen[ P03410] interacts with 1 human partners:{P23786}

8059 Pathogen[ P0C206] interacts with 1 human partners:{P23786}

8060 [Cluster 1303]GO:0043303+P biological\_process [name] mast cell degranulation [def] "The regulated exocytosis of secretory granules containing preformed mediators such as histamine, serotonin, and neutral proteases by a mast cell." [ISBN]

8061 Pathogen[ P14079] interacts with 3 human partners:{Q6PUV4;O43561;Q9GZY6}

8062 Pathogen[ P03410] interacts with 3 human partners:{O43561;Q9GZY6;Q6PUV4}

8063 Pathogen[ P0C206] interacts with 1 human partners:{Q6PUV4}

8064 [Cluster 1304]GO:0048745+P biological\_process [name] smooth muscle tissue development [def] "The process whose specific outcome is the progression of smooth muscle over time, from its formation to the mature structure." [GOC

8065 Pathogen[ Q2Q067] interacts with 2 human partners:{Q63HK5;Q12959}

8066 Pathogen[ P0C214] interacts with 2 human partners:{Q63HK5;Q12959}

8067 Pathogen[ P03346] interacts with 2 human partners:{Q63HK5;Q12959}

8068 Pathogen[ Q85601] interacts with 2 human partners:{Q12959;Q63HK5}

8069 Pathogen[ P14079] interacts with 1 human partners:{Q63HK5}

8070 Pathogen[ P03410] interacts with 2 human partners:{Q12959;Q63HK5}

8071 Pathogen[ P0C206] interacts with 2 human partners:{Q63HK5;Q12959}

8072 Pathogen[ P03363] interacts with 2 human partners:{Q12959;Q63HK5}

8073 [Cluster 1305]GO:0046651+P biological\_process [name] lymphocyte proliferation [def] "The expansion of a lymphocyte population by cell division." [GOC

8074 Pathogen[ P03346] interacts with 1 human partners:{Q9NRZ9}

8075 Pathogen[ P0C206] interacts with 1 human partners:{Q9NRZ9}

8076 [Cluster 1306]GO:0000019+P biological\_process [name] regulation of mitotic recombination [def] "Any process that modulates the frequency, rate or extent of DNA recombination during mitosis." [GOC

8077 Pathogen[ Q2Q067] interacts with 1 human partners:{P49959}

8078 Pathogen[ P0C214] interacts with 1 human partners:{P49959}

8079 Pathogen[ P03346] interacts with 1 human partners:{P49959}

8080 Pathogen[ Q85601] interacts with 1 human partners:{P49959}

8081 Pathogen[ P03410] interacts with 1 human partners:{P49959}

8082 Pathogen[ P0C206] interacts with 1 human partners:{P49959}

8083 [Cluster 1307]GO:0034394+P biological\_process [name] protein localization at cell surface [def] "A process in which a protein is transported to, or maintained in, a location within the external part of the cell wall and/or plasma membrane." [GOC

8084 Pathogen[ P0C214] interacts with 2 human partners:{Q9HCE7;Q14696}

8085 Pathogen[ P14079] interacts with 3 human partners:{Q96G30;Q14696;Q8TCY5}

8086 Pathogen[ P03383] interacts with 1 human partners:{Q14696}

8087 Pathogen[ P03410] interacts with 2 human partners:{Q96G30;Q14696}

8088 Pathogen[ P14075] interacts with 1 human partners:{Q14696}

8089 Pathogen[ P0C206] interacts with 1 human partners:{Q14696}

8090 [Cluster 1308]GO:0002040+P biological\_process [name] sprouting angiogenesis [def] "The extension of new blood vessels from existing capillaries into avascular tissues resulting from the proliferation of blood vessel endothelial cells." [PMID

8091 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NVD7}

8092 Pathogen[ P0C214] interacts with 1 human partners:{Q9NVD7}

8093 Pathogen[ P03346] interacts with 1 human partners:{Q9NVD7}

8094 Pathogen[ Q85601] interacts with 1 human partners:{Q9NVD7}

8095 Pathogen[ P14079] interacts with 2 human partners:{O60895;Q9NVD7}

8096 Pathogen[ P03410] interacts with 2 human partners:{O60895;Q9NVD7}

8097 Pathogen[ P0C206] interacts with 1 human partners:{Q9NVD7}

8098 Pathogen[ P03363] interacts with 1 human partners:{Q9NVD7}

8099 [Cluster 1309]GO:0032006+P biological\_process [name] regulation of TOR signaling cascade [def] "Any process that modulates the frequency, rate or extent of signaling via the TOR signaling pathway." [GOC

8100 Pathogen[ P14079] interacts with 1 human partners:{Q9UHA4}

8101 Pathogen[ P03410] interacts with 1 human partners:{Q9UHA4}

8102 Pathogen[ P0C206] interacts with 1 human partners:{Q9UHA4}

8103 [Cluster 1310]GO:0019227+P biological\_process [name] neuronal action potential propagation [def] "A neurological process that causes the sequential depolarization of a neuron's cell membrane along an axon." [GOC

8104 Pathogen[ P14079] interacts with 1 human partners:{Q8N6F1}

8105 Pathogen[ P03410] interacts with 1 human partners:{Q8N6F1}

8106 [Cluster 1311]GO:0060028+P biological\_process [name] convergent extension involved in axis elongation [def] "The morphogenetic process in which an epithelium narrows along one axis and lengthens in a perpendicular axis contributing to the lengthening of the axis of an organism." [GOC

8107 Pathogen[ P03346] interacts with 1 human partners:{Q13263}

8108 Pathogen[ Q85601] interacts with 1 human partners:{Q13263}

8109 Pathogen[ P0C206] interacts with 1 human partners:{Q13263}

8110 [Cluster 1312]GO:0072272+P biological\_process [name] proximal/distal pattern formation involved in metanephric nephron development [def] "The regionalization process in which specific areas of cell differentiation are determined along a proximal/distal axis of a nephron in the metanephros. The proximal/distal axis is defined by a line that runs from the center of the kidney (proximal end) outward (distal end)." [GOC

8111 Pathogen[ P03346] interacts with 1 human partners:{Q9BZ11}

8112 Pathogen[ P03410] interacts with 1 human partners:{Q9BZ11}

8113 Pathogen[ P0C206] interacts with 1 human partners:{Q9BZ11}

8114 Pathogen[ P03363] interacts with 1 human partners:{Q9BZ11}

8115 [Cluster 1313]GO:0006549+P biological\_process [name] isoleucine metabolic process [def] "The chemical reactions and pathways involving isoleucine,



(2R\*,3R\*)-2-amino-3-methylpentanoic acid." [GOC

8116 Pathogen[ POC214] interacts with 1 human partners:{O15382}

8117 Pathogen[ Q85601] interacts with 1 human partners:{O15382}

8118 Pathogen[ P14079] interacts with 1 human partners:{O15382}

8119 Pathogen[ P03410] interacts with 1 human partners:{O15382}

8120 Pathogen[ POC206] interacts with 1 human partners:{O15382}

8121 [Cluster 1314]GO:0034516+P biological\_process [name] response to vitamin B6 [def]  
"Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a vitamin B6 stimulus. Vitamin B6 encompasses pyridoxal, pyridoxamine and pyridoxine and the active form, pyridoxal phosphate." [GOC

8122 Pathogen[ Q2Q067] interacts with 1 human partners:{Q16719}

8123 Pathogen[ POC214] interacts with 1 human partners:{Q16719}

8124 Pathogen[ P03346] interacts with 1 human partners:{Q16719}

8125 Pathogen[ Q85601] interacts with 1 human partners:{Q16719}

8126 Pathogen[ P14079] interacts with 1 human partners:{Q16719}

8127 Pathogen[ P03383] interacts with 1 human partners:{Q16719}

8128 Pathogen[ P03410] interacts with 1 human partners:{Q16719}

8129 Pathogen[ P14075] interacts with 1 human partners:{Q16719}

8130 Pathogen[ POC206] interacts with 1 human partners:{Q16719}

8131 [Cluster 1315]GO:0018377+P biological\_process [name] protein myristoylation [def]  
"The covalent attachment of a myristoyl group to a protein." [GOC

8132 Pathogen[ POC214] interacts with 1 human partners:{P29728}

8133 Pathogen[ P14079] interacts with 1 human partners:{P29728}

8134 Pathogen[ P03410] interacts with 1 human partners:{P29728}

8135 Pathogen[ POC206] interacts with 1 human partners:{P29728}

8136 [Cluster 1316]GO:0032026+P biological\_process [name] response to magnesium ion [def]  
"Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a magnesium ion stimulus." [GOC

8137 Pathogen[ Q2Q067] interacts with 1 human partners:{P24385}

8138 Pathogen[ POC214] interacts with 1 human partners:{P24385}

8139 Pathogen[ P03346] interacts with 1 human partners:{P24385}

8140 Pathogen[ Q85601] interacts with 1 human partners:{P24385}

8141 Pathogen[ P03383] interacts with 1 human partners:{P24385}

8142 Pathogen[ P03410] interacts with 1 human partners:{P24385}

8143 Pathogen[ P14075] interacts with 1 human partners:{P24385}

8144 Pathogen[ POC206] interacts with 1 human partners:{P24385}

8145 Pathogen[ P03363] interacts with 1 human partners:{P24385}

8146 [Cluster 1317]GO:0072428+P biological\_process [name] signal transduction involved in intra-S DNA damage checkpoint [def]  
"A signal transduction process that contributes to an intra-S DNA damage checkpoint." [GOC

8147 Pathogen[ Q2Q067] interacts with 1 human partners:{O96017}

8148 Pathogen[ POC214] interacts with 1 human partners:{O96017}

8149 Pathogen[ P03346] interacts with 1 human partners:{O96017}

8150 Pathogen[ Q85601] interacts with 1 human partners:{O96017}

8151 Pathogen[ P03383] interacts with 1 human partners:{O96017}

8152 Pathogen[ P03410] interacts with 1 human partners:{O96017}

8153 Pathogen[ P14075] interacts with 1 human partners:{O96017}

8154 Pathogen[ POC206] interacts with 1 human partners:{O96017}

8155 Pathogen[ P03363] interacts with 1 human partners:{O96017}

8156 [Cluster 1318]GO:0051098+P biological\_process [name] regulation of binding [def]  
"Any process that modulates the frequency, rate or extent of binding, the selective interaction of a molecule with one or more specific sites on another molecule." [GOC

8157 Pathogen[ Q2Q067] interacts with 3 human partners:{Q13485;P84022;Q15796}

8158 Pathogen[ POC214] interacts with 3 human partners:{P84022;Q13485;Q15796}

8159 Pathogen[ P03346] interacts with 3 human partners:{Q15796;P84022;Q13485}

8160 Pathogen[ Q85601] interacts with 3 human partners:{P84022;Q13485;Q15796}

8161 Pathogen[ P03383] interacts with 3 human partners:{Q13485;P84022;Q15796}

8162 Pathogen[ P03410] interacts with 3 human partners:{P84022;Q13485;Q15796}

8163 Pathogen[ P14075] interacts with 3 human partners:{Q15796;Q13485;P84022}

8164 Pathogen[ POC206] interacts with 3 human partners:{P84022;Q15796;Q13485}

8165 Pathogen[ P03363] interacts with 3 human partners:{Q15796;P84022;Q13485}

8166 [Cluster 1319]GO:0023014+P biological\_process [name] signal transduction via phosphorylation event [def]  
"The process in which a signal is conveyed via the transfer of one or more phosphate groups." [GOC

8167 Pathogen[ POC214] interacts with 1 human partners:{Q9NXG0}

8168 Pathogen[ P03346] interacts with 1 human partners:{Q9NXG0}

8169 Pathogen[ Q85601] interacts with 1 human partners:{Q9NXG0}

8170 Pathogen[ P14079] interacts with 1 human partners:{Q9NXG0}

8171 Pathogen[ P03410] interacts with 1 human partners:{Q9NXG0}

8172 Pathogen[ POC206] interacts with 1 human partners:{Q9NXG0}

8173 Pathogen[ P03363] interacts with 1 human partners:{Q9NXG0}

8174 [Cluster 1320]GO:0036006+P biological\_process [name] cellular response to macrophage colony-stimulating factor stimulus [def]  
"Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene

expression, etc.) as a result of a macrophage colony-stimulating factor stimulus." [GOC  
8175 Pathogen[ P14079] interacts with 1 human partners:{Q9H295}  
8176 [Cluster 1321]GO:0050795+P biological\_process [name] regulation of behavior [def]  
"Any process that modulates the frequency, rate or extent of behavior, the specific  
actions or reactions of an organism in response to external or internal stimuli." [GOC  
8177 Pathogen[ Q2Q067] interacts with 1 human partners:{P49639}  
8178 Pathogen[ P0C214] interacts with 1 human partners:{P49639}  
8179 Pathogen[ P03346] interacts with 2 human partners:{P49639;Q8N157}  
8180 Pathogen[ Q85601] interacts with 1 human partners:{P49639}  
8181 Pathogen[ P14079] interacts with 2 human partners:{Q8N157;P49639}  
8182 Pathogen[ P03383] interacts with 1 human partners:{P49639}  
8183 Pathogen[ P03410] interacts with 2 human partners:{Q8N157;P49639}  
8184 Pathogen[ P0C206] interacts with 2 human partners:{P49639;Q8N157}  
8185 Pathogen[ P03363] interacts with 2 human partners:{P49639;Q8N157}  
8186 [Cluster 1322]GO:0042541+P biological\_process [name] hemoglobin biosynthetic process  
[def] "The chemical reactions and pathways resulting in the formation of hemoglobin, an  
oxygen carrying, conjugated protein containing four heme groups and globin." [CHEBI  
8187 Pathogen[ Q2Q067] interacts with 1 human partners:{P22557}  
8188 Pathogen[ P0C214] interacts with 1 human partners:{P22557}  
8189 Pathogen[ P03346] interacts with 1 human partners:{P22557}  
8190 Pathogen[ P14079] interacts with 1 human partners:{P22557}  
8191 Pathogen[ P03410] interacts with 1 human partners:{P22557}  
8192 Pathogen[ P0C206] interacts with 1 human partners:{P22557}  
8193 [Cluster 1323]GO:0043584+P biological\_process [name] nose development [def] "The  
process whose specific outcome is the progression of the nose over time, from its  
formation to the mature structure. The nose is the specialized structure of the face  
that serves as the organ of the sense of smell and as part of the respiratory system.  
Includes the nasi externus (external nose) and cavitas nasi (nasal cavity)." [GOC  
8194 Pathogen[ P03346] interacts with 3 human partners:{Q68CZ1;Q9UBX0;Q9P2D1}  
8195 Pathogen[ Q85601] interacts with 2 human partners:{Q9P2D1;Q9UBX0}  
8196 Pathogen[ P14079] interacts with 2 human partners:{Q68CZ1;Q9P2D1}  
8197 Pathogen[ P03410] interacts with 2 human partners:{Q9P2D1;Q68CZ1}  
8198 Pathogen[ P0C206] interacts with 2 human partners:{Q9P2D1;Q9UBX0}  
8199 Pathogen[ P03363] interacts with 1 human partners:{Q9UBX0}  
8200 [Cluster 1324]GO:0033484+P biological\_process [name] nitric oxide homeostasis [def] "A  
homeostatic process involved in the maintenance of an internal steady state of nitric  
oxide within an organism or cell." [GOC  
8201 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9H2P0}  
8202 Pathogen[ P0C214] interacts with 1 human partners:{Q9H2P0}  
8203 Pathogen[ P03346] interacts with 1 human partners:{Q9H2P0}  
8204 Pathogen[ Q85601] interacts with 1 human partners:{Q9H2P0}  
8205 Pathogen[ P14079] interacts with 1 human partners:{Q9H2P0}  
8206 Pathogen[ P0C206] interacts with 1 human partners:{Q9H2P0}  
8207 Pathogen[ P03363] interacts with 1 human partners:{Q9H2P0}  
8208 [Cluster 1325]GO:0060029+P biological\_process [name] convergent extension involved in  
organogenesis [def] "The morphogenetic process in which an epithelium narrows along  
one axis and lengthens in a perpendicular axis contribution to the shaping of an organ."  
[GOC  
8209 Pathogen[ Q2Q067] interacts with 1 human partners:{O14641}  
8210 Pathogen[ P0C214] interacts with 1 human partners:{O14641}  
8211 Pathogen[ P03346] interacts with 1 human partners:{O14641}  
8212 Pathogen[ Q85601] interacts with 1 human partners:{O14641}  
8213 Pathogen[ P14079] interacts with 1 human partners:{O14641}  
8214 Pathogen[ P03383] interacts with 1 human partners:{O14641}  
8215 Pathogen[ P03410] interacts with 1 human partners:{O14641}  
8216 Pathogen[ P14075] interacts with 1 human partners:{O14641}  
8217 Pathogen[ P03363] interacts with 1 human partners:{O14641}  
8218 [Cluster 1326]GO:0035511+P biological\_process [name] oxidative DNA demethylation  
[def] "Removal of the methyl group from one or more nucleotides within a DNA molecule  
involving the oxidation (i.e. electron loss) of one or more atoms." [PMID  
8219 Pathogen[ Q2Q067] interacts with 1 human partners:{Q6NS38}  
8220 Pathogen[ P0C214] interacts with 1 human partners:{Q6NS38}  
8221 Pathogen[ Q85601] interacts with 1 human partners:{Q6NS38}  
8222 Pathogen[ P14079] interacts with 1 human partners:{Q6NS38}  
8223 Pathogen[ P03410] interacts with 1 human partners:{Q6NS38}  
8224 Pathogen[ P0C206] interacts with 1 human partners:{Q6NS38}  
8225 [Cluster 1327]GO:0006066+P biological\_process [name] alcohol metabolic process  
[def] "The chemical reactions and pathways involving alcohols, any of a class of  
compounds containing one or more hydroxyl groups attached to a saturated carbon atom."  
[CHEBI  
8226 Pathogen[ P0C214] interacts with 1 human partners:{P07327}  
8227 [Cluster 1328]GO:0060576+P biological\_process [name] intestinal epithelial cell  
development [def] "The process whose specific outcome is the progression of a  
columnar/cuboidal epithelial cell of the intestine over time, from its formation to the  
mature structure." [GOC  
8228 Pathogen[ Q2Q067] interacts with 1 human partners:{O95238}

8229 Pathogen[ POC214] interacts with 1 human partners:{095238}

8230 Pathogen[ P03346] interacts with 2 human partners:{095238;P78367}

8231 Pathogen[ Q85601] interacts with 1 human partners:{095238}

8232 Pathogen[ P14079] interacts with 1 human partners:{095238}

8233 Pathogen[ P03383] interacts with 1 human partners:{095238}

8234 Pathogen[ P03410] interacts with 1 human partners:{095238}

8235 Pathogen[ POC206] interacts with 1 human partners:{095238}

8236 Pathogen[ P03363] interacts with 2 human partners:{095238;P78367}

8237 [Cluster 1329]GO:0043552+P biological\_process [name] positive regulation of phosphatidylinositol 3-kinase activity [def] "Any process that activates or increases the frequency, rate or extent of phosphatidylinositol 3-kinase activity." [GOC

8238 Pathogen[ Q2Q067] interacts with 2 human partners:{P60953;P63000}

8239 Pathogen[ POC214] interacts with 2 human partners:{P63000;P60953}

8240 Pathogen[ P03346] interacts with 2 human partners:{P60953;P63000}

8241 Pathogen[ Q85601] interacts with 2 human partners:{P63000;P60953}

8242 Pathogen[ P03383] interacts with 2 human partners:{P60953;P63000}

8243 Pathogen[ P03410] interacts with 2 human partners:{P63000;P60953}

8244 Pathogen[ P14075] interacts with 2 human partners:{P60953;P63000}

8245 Pathogen[ POC206] interacts with 2 human partners:{P63000;P60953}

8246 Pathogen[ P03363] interacts with 2 human partners:{P63000;P60953}

8247 [Cluster 1330]GO:0044342+P biological\_process [name] type B pancreatic cell proliferation [def] "The multiplication or reproduction of pancreatic B cells, resulting in the expansion of an pancreatic B cell population. Pancreatic B cell are cells of the pancreas that secrete insulin." [GOC

8248 Pathogen[ POC214] interacts with 1 human partners:{Q92934}

8249 Pathogen[ P14079] interacts with 1 human partners:{Q92934}

8250 Pathogen[ P03410] interacts with 1 human partners:{Q92934}

8251 Pathogen[ POC206] interacts with 1 human partners:{Q92934}

8252 [Cluster 1331]GO:0000266+P biological\_process [name] mitochondrial fission [def] "The division of a mitochondrion within a cell to form two or more separate mitochondrial compartments." [PMID

8253 Pathogen[ Q2Q067] interacts with 2 human partners:{Q6P444;Q14693}

8254 Pathogen[ POC214] interacts with 2 human partners:{Q6P444;Q14693}

8255 Pathogen[ P03346] interacts with 2 human partners:{Q6P444;Q14693}

8256 Pathogen[ Q85601] interacts with 1 human partners:{Q14693}

8257 Pathogen[ P14079] interacts with 5 human partners:{Q9UDX5;Q14693;Q12887;Q6P444;Q15390}

8258 Pathogen[ P03383] interacts with 2 human partners:{Q6P444;Q14693}

8259 Pathogen[ P03410] interacts with 4 human partners:{Q15390;Q6P444;Q14693;Q12887}

8260 Pathogen[ P14075] interacts with 3 human partners:{Q6P444;Q15390;Q14693}

8261 Pathogen[ POC206] interacts with 3 human partners:{Q6P444;Q15390;Q14693}

8262 [Cluster 1332]GO:0010886+P biological\_process [name] positive regulation of cholesterol storage [def] "Any process that increases the rate or extent of cholesterol storage. Cholesterol storage is the accumulation and maintenance in cells or tissues of cholesterol, cholest-5-en-3 beta-ol, the principal sterol of vertebrates and the precursor of many steroids, including bile acids and steroid hormones." [GOC

8263 Pathogen[ P03346] interacts with 1 human partners:{Q12772}

8264 Pathogen[ Q85601] interacts with 1 human partners:{Q12772}

8265 Pathogen[ P14079] interacts with 1 human partners:{Q12772}

8266 Pathogen[ P03410] interacts with 1 human partners:{Q12772}

8267 Pathogen[ POC206] interacts with 1 human partners:{Q12772}

8268 [Cluster 1333]GO:0003329+P biological\_process [name] pancreatic PP cell fate commitment [def] "The commitment of a cell to a pancreatic PP cell fate and its capacity to differentiate into a pancreatic PP cell. A pancreatic polypeptide-producing cell is a cell in the pancreas that produces pancreatic polypeptide." [GOC

8269 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13562}

8270 Pathogen[ P03346] interacts with 2 human partners:{095096;Q13562}

8271 Pathogen[ Q85601] interacts with 1 human partners:{Q13562}

8272 Pathogen[ POC206] interacts with 1 human partners:{Q13562}

8273 [Cluster 1334]GO:0034220+P biological\_process [name] ion transmembrane transport [def] "A process in which an ion is transported from one side of a membrane to the other by means of some agent such as a transporter or pore." [GOC

8274 Pathogen[ P03346] interacts with 2 human partners:{P06703;Q14847}

8275 Pathogen[ P14079] interacts with 2 human partners:{Q14847;P06703}

8276 Pathogen[ P03410] interacts with 2 human partners:{P06703;Q14847}

8277 Pathogen[ POC206] interacts with 1 human partners:{P06703}

8278 Pathogen[ P03363] interacts with 1 human partners:{Q14847}

8279 [Cluster 1335]GO:0031109+P biological\_process [name] microtubule polymerization or depolymerization [def] "Assembly or disassembly of microtubules by the addition or removal of tubulin heterodimers from a microtubule." [GOC

8280 Pathogen[ Q2Q067] interacts with 1 human partners:{P02511}

8281 Pathogen[ POC214] interacts with 1 human partners:{P02511}

8282 Pathogen[ P03346] interacts with 1 human partners:{P02511}

8283 Pathogen[ Q85601] interacts with 1 human partners:{P02511}

8284 Pathogen[ P14079] interacts with 1 human partners:{P02511}

8285 Pathogen[ P03383] interacts with 1 human partners:{P02511}

8286 Pathogen[ P03410] interacts with 1 human partners:{P02511}

8287 Pathogen[ P14075] interacts with 1 human partners:{P02511}

8288 Pathogen[ P0C206] interacts with 1 human partners:{P02511}

8289 [Cluster 1336]GO:0032862+P biological\_process [name] activation of Rho GTPase activity [def] "Any process that initiates the activity of an inactive GTPase of the Rho family through the replacement of GDP by GTP." [GOC

8290 Pathogen[ P03346] interacts with 1 human partners:{Q9H8V3}

8291 Pathogen[ P14079] interacts with 1 human partners:{Q9H8V3}

8292 Pathogen[ P03410] interacts with 1 human partners:{Q9H8V3}

8293 Pathogen[ P0C206] interacts with 1 human partners:{Q9H8V3}

8294 [Cluster 1337]GO:2001214+P biological\_process [name] positive regulation of vasculogenesis [def] "Any process that activates or increases the frequency, rate or extent of vasculogenesis." [GOC

8295 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NWT6}

8296 Pathogen[ P0C214] interacts with 1 human partners:{Q9NWT6}

8297 Pathogen[ P03346] interacts with 1 human partners:{Q9NWT6}

8298 Pathogen[ Q85601] interacts with 1 human partners:{Q9NWT6}

8299 Pathogen[ P14079] interacts with 2 human partners:{O60895;Q9NWT6}

8300 Pathogen[ P03383] interacts with 1 human partners:{Q9NWT6}

8301 Pathogen[ P03410] interacts with 2 human partners:{Q9NWT6;O60895}

8302 Pathogen[ P14075] interacts with 1 human partners:{Q9NWT6}

8303 Pathogen[ P0C206] interacts with 1 human partners:{Q9NWT6}

8304 [Cluster 1338]GO:0015825+P biological\_process [name] L-serine transport [def] "The directed movement of L-serine, the L-enantiomer of 2-amino-3-hydroxypropanoic acid, into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore." [GOC

8305 Pathogen[ P14079] interacts with 1 human partners:{Q9NRX5}

8306 Pathogen[ P03410] interacts with 1 human partners:{Q9NRX5}

8307 [Cluster 1339]GO:0060377+P biological\_process [name] negative regulation of mast cell differentiation [def] "Any process that decreases the rate, frequency or extent of mast cell differentiation, the process in which a relatively unspecialized myeloid precursor cell acquires the specialized features of a mast cell. A mast cell is a cell that is found in almost all tissues containing numerous basophilic granules and capable of releasing large amounts of histamine and heparin upon activation." [GOC

8308 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8IX07}

8309 Pathogen[ P0C214] interacts with 1 human partners:{Q8IX07}

8310 Pathogen[ P03346] interacts with 1 human partners:{Q8IX07}

8311 Pathogen[ Q85601] interacts with 1 human partners:{Q8IX07}

8312 Pathogen[ P14079] interacts with 1 human partners:{Q8IX07}

8313 Pathogen[ P03410] interacts with 1 human partners:{Q8IX07}

8314 Pathogen[ P0C206] interacts with 1 human partners:{Q8IX07}

8315 [Cluster 1340]GO:0032618+P biological\_process [name] interleukin-15 production [def] "The appearance of interleukin-15 due to biosynthesis or secretion following a cellular stimulus, resulting in an increase in its intracellular or extracellular levels." [GOC

8316 Pathogen[ Q2Q067] interacts with 1 human partners:{O75896}

8317 Pathogen[ P0C214] interacts with 1 human partners:{O75896}

8318 Pathogen[ P03346] interacts with 1 human partners:{O75896}

8319 Pathogen[ P14079] interacts with 1 human partners:{O75896}

8320 Pathogen[ P03383] interacts with 1 human partners:{O75896}

8321 Pathogen[ P03410] interacts with 1 human partners:{O75896}

8322 Pathogen[ P14075] interacts with 1 human partners:{O75896}

8323 Pathogen[ P0C206] interacts with 1 human partners:{O75896}

8324 [Cluster 1341]GO:0045950+P biological\_process [name] negative regulation of mitotic recombination [def] "Any process that inhibits or decreases the rate of DNA recombination during mitosis." [GOC

8325 Pathogen[ P0C214] interacts with 1 human partners:{P40692}

8326 Pathogen[ Q85601] interacts with 1 human partners:{P40692}

8327 Pathogen[ P14079] interacts with 1 human partners:{P40692}

8328 Pathogen[ P03410] interacts with 1 human partners:{P40692}

8329 Pathogen[ P0C206] interacts with 1 human partners:{P40692}

8330 [Cluster 1342]GO:0006308+P biological\_process [name] DNA catabolic process [def] "The cellular DNA metabolic process resulting in the breakdown of DNA, deoxyribonucleic acid, one of the two main types of nucleic acid, consisting of a long unbranched macromolecule formed from one or two strands of linked deoxyribonucleotides, the 3'-phosphate group of each constituent deoxyribonucleotide being joined in 3',5'-phosphodiester linkage to the 5'-hydroxyl group of the deoxyribose moiety of the next one." [GOC

8331 Pathogen[ P03346] interacts with 2 human partners:{Q13609;P24855}

8332 Pathogen[ P14079] interacts with 4 human partners:{Q13609;P49184;O00115;P24855}

8333 Pathogen[ P03410] interacts with 4 human partners:{P49184;Q13609;O00115;P24855}

8334 Pathogen[ P0C206] interacts with 2 human partners:{P24855;Q13609}

8335 Pathogen[ P03363] interacts with 2 human partners:{Q13609;P24855}

8336 [Cluster 1343]GO:0034351+P biological\_process [name] negative regulation of glial cell apoptosis [def] "Any process that stops, prevents, or reduces the frequency, rate, or extent of glial cell apoptosis." [GOC

8337 Pathogen[ Q2Q067] interacts with 1 human partners:{Q12933}

8338 Pathogen[ P0C214] interacts with 1 human partners:{Q12933}

8339 Pathogen[ Q85601] interacts with 1 human partners:{Q12933}

8340 Pathogen[ P14079] interacts with 1 human partners:{Q12933}

8341 Pathogen[ P03383] interacts with 1 human partners:{Q12933}

8342 Pathogen[ P03410] interacts with 1 human partners:{Q12933}

8343 Pathogen[ P14075] interacts with 1 human partners:{Q12933}

8344 Pathogen[ P0C206] interacts with 1 human partners:{Q12933}

8345 Pathogen[ P03363] interacts with 1 human partners:{Q12933}

8346 [Cluster 1344]GO:0060730+P biological\_process [name] regulation of intestinal epithelial structure maintenance [def] "Any process that modulates the rate, frequency, or extent of intestinal epithelial structure maintenance, a tissue homeostatic process required for the maintenance of the structure of the intestinal epithelium." [GOC

8347 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13562}

8348 Pathogen[ P03346] interacts with 1 human partners:{Q13562}

8349 Pathogen[ Q85601] interacts with 1 human partners:{Q13562}

8350 Pathogen[ P0C206] interacts with 1 human partners:{Q13562}

8351 [Cluster 1345]GO:0030423+P biological\_process [name] targeting of mRNA for destruction involved in RNA interference [def] "The process in which small interfering RNAs target cognate mRNA molecules for degradation." [PMID

8352 Pathogen[ Q2Q067] interacts with 1 human partners:{Q15633}

8353 Pathogen[ P0C214] interacts with 1 human partners:{Q15633}

8354 Pathogen[ P03346] interacts with 1 human partners:{Q15633}

8355 Pathogen[ Q85601] interacts with 1 human partners:{Q15633}

8356 Pathogen[ P03383] interacts with 1 human partners:{Q15633}

8357 Pathogen[ P03410] interacts with 1 human partners:{Q15633}

8358 Pathogen[ P14075] interacts with 1 human partners:{Q15633}

8359 Pathogen[ P0C206] interacts with 1 human partners:{Q15633}

8360 Pathogen[ P03363] interacts with 1 human partners:{Q15633}

8361 [Cluster 1346]GO:0031427+P biological\_process [name] response to methotrexate [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a methotrexate stimulus. Methotrexate is 4-amino-10-methylformic acid, a folic acid analogue that is a potent competitive inhibitor of dihydrofolate reductase." [CHEBI

8362 Pathogen[ P0C214] interacts with 1 human partners:{P00374}

8363 Pathogen[ P14079] interacts with 1 human partners:{P00374}

8364 Pathogen[ P03410] interacts with 1 human partners:{P00374}

8365 [Cluster 1347]GO:0033599+P biological\_process [name] regulation of mammary gland epithelial cell proliferation [def] "Any process that modulates the frequency, rate or extent of mammary gland epithelial cell proliferation." [GOC

8366 Pathogen[ Q2Q067] interacts with 1 human partners:{P20719}

8367 Pathogen[ P03346] interacts with 2 human partners:{P20719;O75398}

8368 Pathogen[ Q85601] interacts with 1 human partners:{O75398}

8369 Pathogen[ P0C206] interacts with 2 human partners:{O75398;P20719}

8370 Pathogen[ P03363] interacts with 2 human partners:{P20719;O75398}

8371 [Cluster 1348]GO:0034725+P biological\_process [name] DNA replication-dependent nucleosome disassembly [def] "The controlled breakdown of nucleosomes on newly replicated DNA, coupled to strand elongation." [GOC

8372 Pathogen[ P0C206] interacts with 1 human partners:{Q9UIG0}

8373 [Cluster 1349]GO:0016254+P biological\_process [name] preassembly of GPI anchor in ER membrane [def] "The stepwise addition of the components of the GPI anchor on to phosphatidylinositol lipids in the endoplasmic reticulum membrane." [ISBN

8374 Pathogen[ Q2Q067] interacts with 1 human partners:{Q14442}

8375 Pathogen[ P03346] interacts with 1 human partners:{Q14442}

8376 Pathogen[ P14079] interacts with 6 human partners:{Q14442;P57054;Q9BRB3;Q9Y2B2;O94777;Q8TBF5}

8377 Pathogen[ P03410] interacts with 4 human partners:{Q9Y2B2;O94777;Q14442;Q9BRB3}

8378 Pathogen[ P14075] interacts with 2 human partners:{O94777;Q14442}

8379 Pathogen[ P0C206] interacts with 3 human partners:{Q14442;O94777;Q9Y2B2}

8380 [Cluster 1350]GO:0010455+P biological\_process [name] positive regulation of cell fate commitment [def] "Any process that activates, maintains or increases the frequency or rate of cell fate commitment. Cell fate commitment is the commitment of cells to specific cell fates and their capacity to differentiate into particular kinds of cells. Positional information is established through protein signals that emanate from a localized source within a cell (the initial one-cell zygote) or within a developmental field." [GOC

8381 Pathogen[ Q2Q067] interacts with 1 human partners:{O95238}

8382 Pathogen[ P0C214] interacts with 1 human partners:{O95238}

8383 Pathogen[ P03346] interacts with 1 human partners:{O95238}

8384 Pathogen[ Q85601] interacts with 1 human partners:{O95238}

8385 Pathogen[ P14079] interacts with 1 human partners:{O95238}

8386 Pathogen[ P03383] interacts with 1 human partners:{O95238}

8387 Pathogen[ P03410] interacts with 1 human partners:{O95238}

8388 Pathogen[ P0C206] interacts with 1 human partners:{O95238}

8389 Pathogen[ P03363] interacts with 2 human partners:{O95238;Q9C056}

8390 [Cluster 1351]GO:0006927+P biological\_process [name] transformed cell apoptosis [def] "The process of apoptosis in transformed cells, cells that have undergone changes manifested by escape from control mechanisms, increased growth potential, alterations in the cell surface, karyotypic abnormalities, morphological and biochemical deviations from the norm." [GOC]

8391 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96A26}

8392 Pathogen[ P03346] interacts with 2 human partners:{Q96A26;Q496M5}

8393 Pathogen[ Q85601] interacts with 1 human partners:{Q496M5}

8394 Pathogen[ P14079] interacts with 1 human partners:{Q96A26}

8395 Pathogen[ P03383] interacts with 1 human partners:{Q96A26}

8396 Pathogen[ P03410] interacts with 1 human partners:{Q96A26}

8397 Pathogen[ P14075] interacts with 1 human partners:{Q96A26}

8398 Pathogen[ P0C206] interacts with 2 human partners:{Q496M5;Q96A26}

8399 [Cluster 1352]GO:0046618+P biological\_process [name] drug export [def] "The directed movement of a drug, a substance used in the diagnosis, treatment or prevention of a disease, out of a cell or organelle." [GOC]

8400 Pathogen[ P03346] interacts with 1 human partners:{O75469}

8401 Pathogen[ P14079] interacts with 1 human partners:{O75469}

8402 Pathogen[ P0C206] interacts with 1 human partners:{O75469}

8403 [Cluster 1353]GO:0010812+P biological\_process [name] negative regulation of cell-substrate adhesion [def] "Any process that decreases the frequency, rate or extent of cell-substrate adhesion. Cell-substrate adhesion is the attachment of a cell to the underlying substrate via adhesion molecules." [GOC]

8404 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BTW9}

8405 Pathogen[ P0C214] interacts with 1 human partners:{Q9BTW9}

8406 Pathogen[ Q85601] interacts with 1 human partners:{Q9BTW9}

8407 Pathogen[ P14079] interacts with 1 human partners:{Q9BTW9}

8408 Pathogen[ P03410] interacts with 1 human partners:{Q9BTW9}

8409 Pathogen[ P0C206] interacts with 1 human partners:{Q9BTW9}

8410 Pathogen[ P03363] interacts with 1 human partners:{Q9BTW9}

8411 [Cluster 1354]GO:0061034+P biological\_process [name] olfactory bulb mitral cell layer development [def] "The progression of the olfactory bulb mitral cell layer over time from its initial formation until its mature state. The mitral cell layer is composed of pyramidal neurons whose cell bodies are located between the granule cell layer and the plexiform layer." [GOC]

8412 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NSC2}

8413 Pathogen[ P0C214] interacts with 1 human partners:{Q9NSC2}

8414 Pathogen[ P03346] interacts with 1 human partners:{Q9NSC2}

8415 Pathogen[ Q85601] interacts with 1 human partners:{Q9NSC2}

8416 Pathogen[ P14079] interacts with 1 human partners:{Q9NSC2}

8417 Pathogen[ P03383] interacts with 1 human partners:{Q9NSC2}

8418 Pathogen[ P03410] interacts with 1 human partners:{Q9NSC2}

8419 Pathogen[ P14075] interacts with 1 human partners:{Q9NSC2}

8420 Pathogen[ P0C206] interacts with 1 human partners:{Q9NSC2}

8421 [Cluster 1355]GO:0045909+P biological\_process [name] positive regulation of vasodilation [def] "Any process that activates or increases the frequency, rate or extent of vasodilation." [GOC]

8422 Pathogen[ Q2Q067] interacts with 1 human partners:{P29474}

8423 Pathogen[ P0C214] interacts with 1 human partners:{P29474}

8424 Pathogen[ P03346] interacts with 1 human partners:{P29474}

8425 Pathogen[ Q85601] interacts with 1 human partners:{P29474}

8426 Pathogen[ P03383] interacts with 1 human partners:{P29474}

8427 Pathogen[ P03410] interacts with 1 human partners:{P29474}

8428 Pathogen[ P14075] interacts with 1 human partners:{P29474}

8429 Pathogen[ P0C206] interacts with 1 human partners:{P29474}

8430 Pathogen[ P03363] interacts with 1 human partners:{P29474}

8431 [Cluster 1356]GO:0007521+P biological\_process [name] muscle cell fate determination [def] "The cell fate determination process in which a cell becomes capable of differentiating autonomously into a muscle cell regardless of its environment\_ upon determination, the cell fate cannot be reversed." [CL]

8432 Pathogen[ P14079] interacts with 1 human partners:{Q06413}

8433 [Cluster 1357]GO:0071313+P biological\_process [name] cellular response to caffeine [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a caffeine stimulus. Caffeine is an alkaloid found in numerous plant species, where it acts as a natural pesticide that paralyzes and kills certain insects feeding upon them." [GOC]

8434 Pathogen[ Q2Q067] interacts with 1 human partners:{O14757}

8435 Pathogen[ P0C214] interacts with 1 human partners:{O14757}

8436 Pathogen[ P03346] interacts with 1 human partners:{O14757}

8437 Pathogen[ Q85601] interacts with 1 human partners:{O14757}

8438 Pathogen[ P03383] interacts with 1 human partners:{O14757}

8439 Pathogen[ P03410] interacts with 1 human partners:{O14757}

8440 Pathogen[ P14075] interacts with 1 human partners:{O14757}

8441 Pathogen[ P03363] interacts with 1 human partners:{O14757}

8442 [Cluster 1358]GO:0001676+P biological\_process [name] long-chain fatty acid metabolic process [def] "The chemical reactions and pathways involving long-chain fatty acids,

aliphatic compounds having a terminal carboxyl group and with a chain length of C12-18." [GOC

8443 Pathogen[ Q2Q067] interacts with 1 human partners:{Q86TX2}

8444 Pathogen[ POC214] interacts with 1 human partners:{Q86TX2}

8445 Pathogen[ P03346] interacts with 1 human partners:{Q86TX2}

8446 Pathogen[ Q85601] interacts with 1 human partners:{Q86TX2}

8447 Pathogen[ P14079] interacts with 2 human partners:{P49753;Q86TX2}

8448 Pathogen[ P03410] interacts with 2 human partners:{Q86TX2;P49753}

8449 Pathogen[ POC206] interacts with 1 human partners:{Q86TX2}

8450 [Cluster 1359]GO:0071733+P biological\_process [name] transcriptional activation by promoter-enhancer looping [def] "The formation and maintenance of DNA loops that juxtapose the promoter and enhancer regions of RNA polymerase II-transcribed genes and activate transcription from an RNA polymerase II promoter." [GOC

8451 Pathogen[ Q2Q067] interacts with 2 human partners:{P15976;Q8IX07}

8452 Pathogen[ POC214] interacts with 1 human partners:{Q8IX07}

8453 Pathogen[ P03346] interacts with 2 human partners:{P15976;Q8IX07}

8454 Pathogen[ Q85601] interacts with 2 human partners:{P15976;Q8IX07}

8455 Pathogen[ P14079] interacts with 2 human partners:{P15976;Q8IX07}

8456 Pathogen[ P03410] interacts with 2 human partners:{Q8IX07;P15976}

8457 Pathogen[ POC206] interacts with 2 human partners:{P15976;Q8IX07}

8458 [Cluster 1360]GO:0009262+P biological\_process [name] deoxyribonucleotide metabolic process [def] "The chemical reactions and pathways involving a deoxyribonucleotide, a compound consisting of deoxyribonucleoside (a base linked to a deoxyribose sugar) esterified with a phosphate group at either the 3' or 5'-hydroxyl group of the sugar." [GOC

8459 Pathogen[ Q2Q067] interacts with 1 human partners:{P31350}

8460 Pathogen[ POC214] interacts with 1 human partners:{P31350}

8461 Pathogen[ P03346] interacts with 1 human partners:{P31350}

8462 Pathogen[ Q85601] interacts with 1 human partners:{P31350}

8463 Pathogen[ P14079] interacts with 1 human partners:{P31350}

8464 Pathogen[ P03383] interacts with 1 human partners:{P31350}

8465 Pathogen[ P03410] interacts with 1 human partners:{P31350}

8466 Pathogen[ P14075] interacts with 1 human partners:{P31350}

8467 Pathogen[ POC206] interacts with 1 human partners:{P31350}

8468 [Cluster 1361]GO:0060677+P biological\_process [name] ureteric bud elongation [def] "The process in which the ureteric bud grows along its axis." [GOC

8469 Pathogen[ Q2Q067] interacts with 1 human partners:{P35680}

8470 Pathogen[ P03346] interacts with 1 human partners:{P35680}

8471 Pathogen[ Q85601] interacts with 1 human partners:{P35680}

8472 Pathogen[ P14079] interacts with 1 human partners:{P35680}

8473 Pathogen[ P03410] interacts with 1 human partners:{P35680}

8474 Pathogen[ POC206] interacts with 1 human partners:{P35680}

8475 [Cluster 1362]GO:0006193+P biological\_process [name] ITP catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of ITP, inosine (5'-)triphosphate." [ISBN

8476 Pathogen[ P14079] interacts with 1 human partners:{Q9BY32}

8477 Pathogen[ P03410] interacts with 1 human partners:{Q9BY32}

8478 Pathogen[ POC206] interacts with 1 human partners:{Q9BY32}

8479 [Cluster 1363]GO:0048318+P biological\_process [name] axial mesoderm development [def] "The process whose specific outcome is the progression of the axial mesoderm over time, from its formation to the mature structure. The axial mesoderm includes the prechordal mesoderm and the chordamesoderm. It gives rise to the prechordal plate and to the notochord." [GOC

8480 Pathogen[ P03346] interacts with 1 human partners:{O75593}

8481 [Cluster 1364]GO:0048646+P biological\_process [name] anatomical structure formation involved in morphogenesis [def] "The developmental process pertaining to the initial formation of an anatomical structure from unspecified parts. This process begins with the specific processes that contribute to the appearance of the discrete structure and ends when the structural rudiment is recognizable. An anatomical structure is any biological entity that occupies space and is distinguished from its surroundings. Anatomical structures can be macroscopic such as a carpel, or microscopic such as an acrosome." [GOC

8482 Pathogen[ Q2Q067] interacts with 2 human partners:{P49639;P14653}

8483 Pathogen[ POC214] interacts with 3 human partners:{P49639;P62993;P14653}

8484 Pathogen[ P03346] interacts with 4 human partners:{P49639;P62993;P14653;P56178}

8485 Pathogen[ Q85601] interacts with 3 human partners:{P49639;P62993;P14653}

8486 Pathogen[ P14079] interacts with 2 human partners:{P62993;P49639}

8487 Pathogen[ P03383] interacts with 1 human partners:{P49639}

8488 Pathogen[ P03410] interacts with 2 human partners:{P49639;P62993}

8489 Pathogen[ POC206] interacts with 3 human partners:{P49639;P62993;P14653}

8490 Pathogen[ P03363] interacts with 3 human partners:{P56179;P49639;P14653}

8491 [Cluster 1365]GO:0048251+P biological\_process [name] elastic fiber assembly [def] "Assembly of the extracellular matrix fibers that enables the matrix to recoil after transient stretching." [GOC

8492 Pathogen[ POC214] interacts with 1 human partners:{P35749}

8493 Pathogen[ Q85601] interacts with 1 human partners:{P35749}

8494 Pathogen[ POC206] interacts with 1 human partners:{P35749}

8495 [Cluster 1366]GO:0034205+P biological\_process [name] beta-amyloid formation [def] "The generation of beta-amyloid by cleavage of the amyloid precursor protein (APP)." [GOC]

8496 Pathogen[ P03346] interacts with 1 human partners:{P49755}

8497 Pathogen[ P14079] interacts with 2 human partners:{P49755;A4D1B5}

8498 Pathogen[ P03410] interacts with 1 human partners:{A4D1B5}

8499 Pathogen[ POC206] interacts with 2 human partners:{P49755;A4D1B5}

8500 [Cluster 1367]GO:0071506+P biological\_process [name] cellular response to mycophenolic acid [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a mycophenolic acid stimulus." [CHEBI]

8501 Pathogen[ Q2Q067] interacts with 1 human partners:{P18146}

8502 Pathogen[ POC214] interacts with 1 human partners:{P18146}

8503 Pathogen[ P03346] interacts with 1 human partners:{P18146}

8504 Pathogen[ Q85601] interacts with 1 human partners:{P18146}

8505 Pathogen[ P03383] interacts with 1 human partners:{P18146}

8506 Pathogen[ P03410] interacts with 1 human partners:{P18146}

8507 Pathogen[ P14075] interacts with 1 human partners:{P18146}

8508 Pathogen[ POC206] interacts with 1 human partners:{P18146}

8509 Pathogen[ P03363] interacts with 1 human partners:{P18146}

8510 [Cluster 1368]GO:0030593+P biological\_process [name] neutrophil chemotaxis [def] "The directed movement of a neutrophil cell, the most numerous polymorphonuclear leukocyte found in the blood, in response to an external stimulus, usually an infection or wounding." [GOC]

8511 Pathogen[ P14079] interacts with 1 human partners:{P0DJ18}

8512 Pathogen[ P03410] interacts with 1 human partners:{P0DJ18}

8513 [Cluster 1369]GO:0050906+P biological\_process [name] detection of stimulus involved in sensory perception [def] "The series of events involved in sensory perception in which a sensory stimulus is received by a cell and converted into a molecular signal." [GOC]

8514 Pathogen[ Q2Q067] interacts with 1 human partners:{O14829}

8515 Pathogen[ POC214] interacts with 1 human partners:{O14829}

8516 Pathogen[ P03346] interacts with 1 human partners:{O14829}

8517 Pathogen[ Q85601] interacts with 1 human partners:{O14829}

8518 Pathogen[ P14079] interacts with 1 human partners:{O14829}

8519 Pathogen[ P03410] interacts with 1 human partners:{O14829}

8520 Pathogen[ POC206] interacts with 1 human partners:{O14829}

8521 Pathogen[ P03363] interacts with 1 human partners:{O14829}

8522 [Cluster 1370]GO:0019563+P biological\_process [name] glycerol catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of glycerol, 1,2,3-propanetriol, a sweet, hygroscopic, viscous liquid, widely distributed in nature as a constituent of many lipids." [GOC]

8523 Pathogen[ Q2Q067] interacts with 1 human partners:{P32189}

8524 Pathogen[ POC214] interacts with 3 human partners:{Q14410;Q14409;P32189}

8525 Pathogen[ P03346] interacts with 1 human partners:{P32189}

8526 Pathogen[ Q85601] interacts with 1 human partners:{P32189}

8527 Pathogen[ P14079] interacts with 3 human partners:{Q14410;P32189;Q14409}

8528 Pathogen[ P03383] interacts with 1 human partners:{P32189}

8529 Pathogen[ P03410] interacts with 3 human partners:{Q14410;Q14409;P32189}

8530 Pathogen[ P14075] interacts with 1 human partners:{P32189}

8531 Pathogen[ POC206] interacts with 1 human partners:{P32189}

8532 [Cluster 1371]GO:0000093+P biological\_process [name] mitotic telophase [def] "Telophase occurring as part of mitosis. Telophase is the part of nuclear division that, canonically, begins when the chromosomes arrive at the poles of the cell and the division of the cytoplasm starts. Mitosis is the cell cycle process in which, canonically, the nucleus of a eukaryotic cell divides to produce two daughter nuclei whose chromosome complement is identical to that of the mother cell." [GOC]

8533 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9Y6D9}

8534 Pathogen[ POC214] interacts with 1 human partners:{Q9Y6D9}

8535 Pathogen[ P03346] interacts with 1 human partners:{Q9Y6D9}

8536 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y6D9}

8537 Pathogen[ P03383] interacts with 1 human partners:{Q9Y6D9}

8538 Pathogen[ P14075] interacts with 1 human partners:{Q9Y6D9}

8539 Pathogen[ POC206] interacts with 1 human partners:{Q9Y6D9}

8540 Pathogen[ P03363] interacts with 1 human partners:{Q9Y6D9}

8541 [Cluster 1372]GO:0046940+P biological\_process [name] nucleoside monophosphate phosphorylation [def] "The process of introducing one or more phosphate groups into a nucleoside monophosphate to produce a polyphosphorylated nucleoside." [GOC]

8542 Pathogen[ POC214] interacts with 1 human partners:{P23919}

8543 Pathogen[ P14079] interacts with 1 human partners:{P23919}

8544 Pathogen[ P03410] interacts with 1 human partners:{P23919}

8545 [Cluster 1373]GO:0036151+P

8546 Pathogen[ P14079] interacts with 1 human partners:{Q9NZ20}

8547 Pathogen[ P03410] interacts with 1 human partners:{Q9NZ20}

8548 [Cluster 1374]GO:0051135+P biological\_process [name] positive regulation of NK T cell activation [def] "Any process that activates or increases the frequency, rate or extent



of natural killer T cell activation." [ISBN

8549 Pathogen[ P14079] interacts with 1 human partners:{P29459}

8550 Pathogen[ P03410] interacts with 1 human partners:{P29459}

8551 [Cluster 1375]GO:0019217+P biological\_process [name] regulation of fatty acid metabolic process [def] "Any process that modulates the frequency, rate or extent of the chemical reactions and pathways involving fatty acids." [GOC

8552 Pathogen[ Q2Q067] interacts with 1 human partners:{P36956}

8553 Pathogen[ P03346] interacts with 1 human partners:{P36956}

8554 Pathogen[ Q85601] interacts with 1 human partners:{P36956}

8555 Pathogen[ P14079] interacts with 1 human partners:{P36956}

8556 Pathogen[ P03410] interacts with 1 human partners:{P36956}

8557 Pathogen[ P0C206] interacts with 1 human partners:{P36956}

8558 [Cluster 1376]GO:0090219+P biological\_process [name] negative regulation of lipid kinase activity [def] "Any process that decreases the frequency, rate or extent of lipid kinase activity, the catalysis of the transfer of a phosphate group, usually from ATP, to a simple or complex lipid." [GOC

8559 Pathogen[ Q2Q067] interacts with 1 human partners:{Q15172}

8560 Pathogen[ P0C214] interacts with 1 human partners:{Q15172}

8561 Pathogen[ P03346] interacts with 1 human partners:{Q15172}

8562 Pathogen[ Q85601] interacts with 1 human partners:{Q15172}

8563 Pathogen[ P14079] interacts with 1 human partners:{Q15172}

8564 Pathogen[ P03410] interacts with 1 human partners:{Q15172}

8565 Pathogen[ P0C206] interacts with 1 human partners:{Q15172}

8566 Pathogen[ P03363] interacts with 1 human partners:{Q15172}

8567 [Cluster 1377]GO:0034474+P biological\_process [name] U2 snRNA 3'-end processing [def] "Any process involved in forming the mature 3' end of a U2 snRNA molecule." [GOC

8568 Pathogen[ P14079] interacts with 1 human partners:{Q8N201}

8569 Pathogen[ P03410] interacts with 1 human partners:{Q8N201}

8570 Pathogen[ P0C206] interacts with 1 human partners:{Q8N201}

8571 [Cluster 1378]GO:0016322+P biological\_process [name] neuron remodeling [def] "The developmentally regulated remodeling of neuronal projections such as pruning to eliminate the extra dendrites and axons projections set up in early stages of nervous system development." [GOC

8572 Pathogen[ P03346] interacts with 1 human partners:{Q92625}

8573 Pathogen[ P0C206] interacts with 1 human partners:{Q92625}

8574 Pathogen[ P03363] interacts with 1 human partners:{Q92625}

8575 [Cluster 1379]GO:0035634+P biological\_process [name] response to stilbenoid [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of exposure to a stilbenoid. Stilbenoids are secondary products of heartwood formation in trees that can act as phytoalexins. Stilbenoids are hydroxylated derivatives of stilbene. They belong to the family of phenylpropanoids and share most of their biosynthesis pathway with chalcones." [CHEBI

8576 Pathogen[ P0C214] interacts with 1 human partners:{Q13907}

8577 Pathogen[ Q85601] interacts with 1 human partners:{Q13907}

8578 Pathogen[ P14079] interacts with 2 human partners:{Q14210;Q13907}

8579 Pathogen[ P03410] interacts with 2 human partners:{Q14210;Q13907}

8580 Pathogen[ P0C206] interacts with 1 human partners:{Q13907}

8581 [Cluster 1380]GO:0048671+P biological\_process [name] negative regulation of collateral sprouting [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of collateral sprouting." [GOC

8582 Pathogen[ P03346] interacts with 1 human partners:{Q9H165}

8583 Pathogen[ P0C206] interacts with 1 human partners:{Q9H165}

8584 [Cluster 1381]GO:0060033+P biological\_process [name] anatomical structure regression [def] "The developmental process in which an anatomical structure is destroyed as a part of its normal progression." [GOC

8585 Pathogen[ Q2Q067] interacts with 1 human partners:{P17947}

8586 Pathogen[ P0C214] interacts with 1 human partners:{P17947}

8587 Pathogen[ P03346] interacts with 1 human partners:{P17947}

8588 Pathogen[ Q85601] interacts with 1 human partners:{P17947}

8589 Pathogen[ P03383] interacts with 1 human partners:{P17947}

8590 Pathogen[ P03410] interacts with 1 human partners:{P17947}

8591 Pathogen[ P14079] interacts with 1 human partners:{P17947}

8592 Pathogen[ P0C206] interacts with 1 human partners:{P17947}

8593 Pathogen[ P03363] interacts with 1 human partners:{P17947}

8594 [Cluster 1382]GO:0044211+P biological\_process [name] CTP salvage [def] "Any process which produces cytidine 5'-triphosphate (CTP) from derivatives of it, without de novo synthesis." [GOC

8595 Pathogen[ P0C214] interacts with 1 human partners:{Q9NWZ5}

8596 Pathogen[ P03346] interacts with 1 human partners:{Q9NWZ5}

8597 Pathogen[ P14079] interacts with 1 human partners:{Q9NWZ5}

8598 Pathogen[ P03383] interacts with 1 human partners:{Q9NWZ5}

8599 Pathogen[ P03410] interacts with 1 human partners:{Q9NWZ5}

8600 Pathogen[ P14075] interacts with 1 human partners:{Q9NWZ5}

8601 Pathogen[ P0C206] interacts with 1 human partners:{Q9NWZ5}

8602 Pathogen[ P03363] interacts with 1 human partners:{Q9NWZ5}

8603 [Cluster 1383]GO:0015721+P biological\_process [name] bile acid and bile salt transport [def] "The directed movement of bile acid and bile salts into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore." [GOC

8604 Pathogen[ Q2Q067] interacts with 1 human partners:{P20823}

8605 Pathogen[ P03346] interacts with 2 human partners:{P20823;P51161}

8606 Pathogen[ Q85601] interacts with 2 human partners:{P51161;P20823}

8607 Pathogen[ P14079] interacts with 1 human partners:{Q86UW1}

8608 Pathogen[ P03410] interacts with 2 human partners:{P51161;Q86UW1}

8609 Pathogen[ P0C206] interacts with 2 human partners:{P51161;P20823}

8610 Pathogen[ P03363] interacts with 1 human partners:{P51161}

8611 [Cluster 1384]GO:0006535+P biological\_process [name] cysteine biosynthetic process from serine [def] "The chemical reactions and pathways resulting in the formation of cysteine from other compounds, including serine." [GOC

8612 Pathogen[ P0C214] interacts with 1 human partners:{P35520}

8613 [Cluster 1385]GO:0001920+P biological\_process [name] negative regulation of receptor recycling [def] "Any process that stops, prevents, or reduces the rate of receptor recycling." [GOC

8614 Pathogen[ P14079] interacts with 1 human partners:{Q6PIZ9}

8615 Pathogen[ P03410] interacts with 1 human partners:{Q6PIZ9}

8616 [Cluster 1386]GO:0006001+P biological\_process [name] fructose catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of fructose, the ketohexose arabino-2-hexulose." [GOC

8617 Pathogen[ Q2Q067] interacts with 1 human partners:{P05062}

8618 Pathogen[ P0C214] interacts with 1 human partners:{P05062}

8619 Pathogen[ P03346] interacts with 1 human partners:{P05062}

8620 Pathogen[ Q85601] interacts with 1 human partners:{P05062}

8621 Pathogen[ P03410] interacts with 1 human partners:{P05062}

8622 Pathogen[ P0C206] interacts with 1 human partners:{P05062}

8623 [Cluster 1387]GO:0006940+P biological\_process [name] regulation of smooth muscle contraction [def] "Any process that modulates the frequency, rate or extent of smooth muscle contraction." [GOC

8624 Pathogen[ P0C214] interacts with 1 human partners:{P19429}

8625 Pathogen[ P14079] interacts with 1 human partners:{P19429}

8626 Pathogen[ P03410] interacts with 1 human partners:{P19429}

8627 Pathogen[ P0C206] interacts with 1 human partners:{P19429}

8628 Pathogen[ P03363] interacts with 1 human partners:{P19429}

8629 [Cluster 1388]GO:0035089+P biological\_process [name] establishment of apical/basal cell polarity [def] "The specification and formation of the polarity of a cell along its apical/basal axis." [GOC

8630 Pathogen[ Q2Q067] interacts with 1 human partners:{Q14160}

8631 Pathogen[ P0C214] interacts with 1 human partners:{Q14160}

8632 Pathogen[ P03346] interacts with 1 human partners:{Q14160}

8633 Pathogen[ Q85601] interacts with 1 human partners:{Q14160}

8634 Pathogen[ P03383] interacts with 1 human partners:{Q14160}

8635 Pathogen[ P03410] interacts with 1 human partners:{Q14160}

8636 Pathogen[ P14075] interacts with 1 human partners:{Q14160}

8637 Pathogen[ P0C206] interacts with 1 human partners:{Q14160}

8638 Pathogen[ P03363] interacts with 1 human partners:{Q14160}

8639 [Cluster 1389]GO:0031343+P biological\_process [name] positive regulation of cell killing [def] "Any process that activates or increases the frequency, rate or extent of cell killing." [GOC

8640 Pathogen[ P0C214] interacts with 1 human partners:{P18054}

8641 Pathogen[ P03346] interacts with 1 human partners:{P18054}

8642 Pathogen[ P14079] interacts with 1 human partners:{O60502}

8643 Pathogen[ P03410] interacts with 1 human partners:{O60502}

8644 [Cluster 1390]GO:0042245+P biological\_process [name] RNA repair [def] "Any process that results in the repair of damaged RNA." [PMID

8645 Pathogen[ P14079] interacts with 1 human partners:{Q9C0B1}

8646 Pathogen[ P03410] interacts with 1 human partners:{Q9C0B1}

8647 [Cluster 1391]GO:0044236+P biological\_process [name] multicellular organismal metabolic process [def] "The chemical reactions and pathways in multicellular organisms that occur at the tissue, organ, or organismal level. These processes, unlike cellular metabolism, can include transport of substances between cells when that transport is required." [GOC

8648 Pathogen[ Q2Q067] interacts with 1 human partners:{P51948}

8649 Pathogen[ P0C214] interacts with 1 human partners:{P51948}

8650 Pathogen[ P03346] interacts with 1 human partners:{P51948}

8651 Pathogen[ Q85601] interacts with 1 human partners:{P51948}

8652 Pathogen[ P14079] interacts with 1 human partners:{P51948}

8653 Pathogen[ P03383] interacts with 1 human partners:{P51948}

8654 Pathogen[ P03410] interacts with 1 human partners:{P51948}

8655 Pathogen[ P14075] interacts with 1 human partners:{P51948}

8656 Pathogen[ P0C206] interacts with 1 human partners:{P51948}

8657 [Cluster 1392]GO:0010894+P biological\_process [name] negative regulation of steroid biosynthetic process [def] "Any process that decreases the frequency, rate or extent of the chemical reactions and pathways resulting in the formation of steroids, compounds

with a 1,2,cyclopentanoperhydrophenanthrene nucleus." [GOC  
8658 Pathogen[ P14079] interacts with 2 human partners:{Q9Y5U4;O15503}  
8659 Pathogen[ P03410] interacts with 2 human partners:{Q9Y5U4;O15503}  
8660 [Cluster 1393]GO:0006701+P biological\_process [name] progesterone biosynthetic process  
[def] "The chemical reactions and pathways resulting in the formation of progesterone, a  
steroid hormone produced in the ovary which prepares and maintains the uterus for  
pregnancy. Also found in plants." [GOC  
8661 Pathogen[ P14079] interacts with 1 human partners:{P01225}  
8662 [Cluster 1394]GO:0048145+P biological\_process [name] regulation of fibroblast  
proliferation [def] "Any process that modulates the frequency, rate or extent of  
multiplication or reproduction of fibroblast cells." [GOC  
8663 Pathogen[ Q2Q067] interacts with 1 human partners:{O60934}  
8664 Pathogen[ P03346] interacts with 1 human partners:{O60934}  
8665 Pathogen[ Q85601] interacts with 1 human partners:{O60934}  
8666 Pathogen[ P14079] interacts with 1 human partners:{O60934}  
8667 Pathogen[ P03410] interacts with 1 human partners:{O60934}  
8668 Pathogen[ P0C206] interacts with 1 human partners:{O60934}  
8669 [Cluster 1395]GO:0006821+P biological\_process [name] chloride transport [def] "The  
directed movement of chloride into, out of or within a cell, or between cells, by means  
of some agent such as a transporter or pore." [GOC  
8670 Pathogen[ Q2Q067] interacts with 1 human partners:{P54105}  
8671 Pathogen[ P03346] interacts with 3 human partners:{P54105;O00299;O95833}  
8672 Pathogen[ Q85601] interacts with 1 human partners:{P54105}  
8673 Pathogen[ P14079] interacts with 6 human  
partners:{A1A5B4;Q9NQ90;Q9BYT9;Q8WZ55;Q96S66;P54105}  
8674 Pathogen[ P03383] interacts with 1 human partners:{P54105}  
8675 Pathogen[ P03410] interacts with 6 human  
partners:{Q9NQ90;Q8WZ55;P54105;Q9BYT9;Q96S66;A1A5B4}  
8676 Pathogen[ P14075] interacts with 1 human partners:{P54105}  
8677 Pathogen[ P0C206] interacts with 3 human partners:{Q9NQ90;P54105;Q96S66}  
8678 Pathogen[ P03363] interacts with 2 human partners:{P54105;O95833}  
8679 [Cluster 1396]GO:0006487+P biological\_process [name] protein N-linked glycosylation  
[def] "A protein glycosylation process in which a sugar unit is added to a protein via  
the N4 atom of peptidyl-asparagine, the omega-N of arginine, or the N1' atom  
peptidyl-tryptophan." [RESID  
8680 Pathogen[ P14079] interacts with 3 human partners:{P39656;P04844;Q3V5L5}  
8681 Pathogen[ P03410] interacts with 3 human partners:{Q3V5L5;P04844;P39656}  
8682 Pathogen[ P0C206] interacts with 1 human partners:{P39656}  
8683 [Cluster 1397]GO:0016266+P biological\_process [name] O-glycan processing [def] "The  
stepwise addition of sugar residues to the initially added O-linked sugar (usually  
GalNAc) to form a core O-glycan structure." [GOC  
8684 Pathogen[ P14079] interacts with 5 human  
partners:{Q8N307;Q9H488;Q8TAX7;P15941;Q5SSG8}  
8685 Pathogen[ P03410] interacts with 6 human  
partners:{Q5SSG8;P15941;Q8N307;Q8TAX7;Q96DR8;Q9H488}  
8686 Pathogen[ P14075] interacts with 1 human partners:{Q8TAX7}  
8687 Pathogen[ P0C206] interacts with 1 human partners:{Q8TAX7}  
8688 [Cluster 1398]GO:0072675+P biological\_process [name] osteoclast fusion [def] "The  
plasma membrane fusion process that results in fusion of mononuclear osteoclasts to form  
a multinuclear osteoclast." [CL  
8689 Pathogen[ P14079] interacts with 1 human partners:{Q9H295}  
8690 [Cluster 1399]GO:1900087+P  
8691 Pathogen[ P03346] interacts with 1 human partners:{Q8WVI7}  
8692 Pathogen[ P14079] interacts with 1 human partners:{Q8WVI7}  
8693 Pathogen[ P03410] interacts with 1 human partners:{Q8WVI7}  
8694 Pathogen[ P0C206] interacts with 1 human partners:{Q8WVI7}  
8695 [Cluster 1400]GO:0072160+P biological\_process [name] nephron tubule epithelial cell  
differentiation [def] "The process in which relatively unspecialized cells acquire  
specialized structural and/or functional features that characterize the cells of the  
nephron tubule as it progresses from its formation to the mature state." [GOC  
8696 Pathogen[ P14079] interacts with 1 human partners:{Q06413}  
8697 [Cluster 1401]GO:0019693+P biological\_process [name] ribose phosphate metabolic  
process [def] "The chemical reactions and pathways involving ribose phosphate, any  
phosphorylated ribose sugar." [GOC  
8698 Pathogen[ Q2Q067] interacts with 1 human partners:{P49247}  
8699 Pathogen[ P0C214] interacts with 1 human partners:{P49247}  
8700 Pathogen[ P03346] interacts with 1 human partners:{P49247}  
8701 Pathogen[ Q85601] interacts with 1 human partners:{P49247}  
8702 Pathogen[ P14079] interacts with 1 human partners:{P49247}  
8703 Pathogen[ P03383] interacts with 1 human partners:{P49247}  
8704 Pathogen[ P03410] interacts with 1 human partners:{P49247}  
8705 Pathogen[ P14075] interacts with 1 human partners:{P49247}  
8706 Pathogen[ P0C206] interacts with 1 human partners:{P49247}  
8707 [Cluster 1402]GO:0060014+P biological\_process [name] granulosa cell differentiation  
[def] "The process in which a relatively unspecialized cell acquires the specialized  
features of a granulosa cell, a supporting cell for the developing female gamete in the

ovary of mammals." [GOC  
8708 Pathogen[ P03346] interacts with 1 human partners:{P58012}  
8709 [Cluster 1403]GO:0030221+P biological\_process [name] basophil differentiation [def] "The process in which a relatively unspecialized myeloid precursor cell acquires specialized features of a basophil cell." [GOC  
8710 Pathogen[ Q2Q067] interacts with 1 human partners:{P15976}  
8711 Pathogen[ P03346] interacts with 2 human partners:{P17542;P15976}  
8712 Pathogen[ Q85601] interacts with 1 human partners:{P15976}  
8713 Pathogen[ P14079] interacts with 1 human partners:{P15976}  
8714 Pathogen[ P03410] interacts with 1 human partners:{P15976}  
8715 Pathogen[ POC206] interacts with 1 human partners:{P15976}  
8716 [Cluster 1404]GO:0002237+P biological\_process [name] response to molecule of bacterial origin [def] "Any process that results in a change in state or activity of an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a stimulus by molecules of bacterial origin such as peptides derived from bacterial flagellin." [GOC  
8717 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9UDY8;O95999;P25063}  
8718 Pathogen[ POC214] interacts with 3 human partners:{Q9UDY8;O95999;P25063}  
8719 Pathogen[ P03346] interacts with 3 human partners:{Q9UDY8;O95999;P25063}  
8720 Pathogen[ Q85601] interacts with 2 human partners:{Q9UDY8;O95999}  
8721 Pathogen[ P14079] interacts with 2 human partners:{O95999;P25063}  
8722 Pathogen[ P03383] interacts with 2 human partners:{P25063;O95999}  
8723 Pathogen[ P03410] interacts with 2 human partners:{O95999;P25063}  
8724 Pathogen[ P14075] interacts with 2 human partners:{O95999;P25063}  
8725 Pathogen[ POC206] interacts with 3 human partners:{Q9UDY8;O95999;P25063}  
8726 [Cluster 1405]GO:0006501+P biological\_process [name] C-terminal protein lipidation [def] "The covalent attachment of a lipid group to the carboxy terminus of a protein." [GOC  
8727 Pathogen[ Q2Q067] interacts with 1 human partners:{Q14442}  
8728 Pathogen[ P03346] interacts with 1 human partners:{Q14442}  
8729 Pathogen[ P14079] interacts with 11 human partners:{O43292;Q14442;Q96S52;P57054;Q9BRB3;Q9Y2B2;O94777;Q969N2;Q9P2X0;Q9H490;Q8TB F5}  
8730 Pathogen[ P03410] interacts with 8 human partners:{Q9Y2B2;O94777;Q14442;Q96S52;Q9BRB3;Q969N2;Q9H490;Q9P2X0}  
8731 Pathogen[ P14075] interacts with 2 human partners:{O94777;Q14442}  
8732 Pathogen[ POC206] interacts with 3 human partners:{Q14442;O94777;Q9Y2B2}  
8733 [Cluster 1406]GO:0034695+P biological\_process [name] response to prostaglandin E stimulus [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a prostaglandin E stimulus." [GOC  
8734 Pathogen[ POC214] interacts with 2 human partners:{Q16613;P05543}  
8735 Pathogen[ Q85601] interacts with 1 human partners:{Q16613}  
8736 Pathogen[ P14079] interacts with 1 human partners:{Q16613}  
8737 Pathogen[ P03383] interacts with 1 human partners:{Q16613}  
8738 Pathogen[ P03410] interacts with 1 human partners:{Q16613}  
8739 Pathogen[ P14075] interacts with 1 human partners:{Q16613}  
8740 Pathogen[ POC206] interacts with 1 human partners:{Q16613}  
8741 [Cluster 1407]GO:2000277+P biological\_process [name] positive regulation of oxidative phosphorylation uncoupler activity [def] "Any process that activates or increases the frequency, rate or extent of oxidative phosphorylation uncoupler activity." [GOC  
8742 Pathogen[ Q2Q067] interacts with 1 human partners:{Q99497}  
8743 Pathogen[ POC214] interacts with 1 human partners:{Q99497}  
8744 Pathogen[ P03346] interacts with 1 human partners:{Q99497}  
8745 Pathogen[ Q85601] interacts with 1 human partners:{Q99497}  
8746 Pathogen[ P14079] interacts with 1 human partners:{Q99497}  
8747 Pathogen[ P03410] interacts with 1 human partners:{Q99497}  
8748 Pathogen[ POC206] interacts with 1 human partners:{Q99497}  
8749 [Cluster 1408]GO:0008228+P biological\_process [name] opsonization [def] "The process in which a microorganism (or other particulate material) is rendered more susceptible to phagocytosis by coating with an opsonin, a blood serum protein such as a complement component or antibody." [GOC  
8750 Pathogen[ P14079] interacts with 1 human partners:{Q08722}  
8751 Pathogen[ P03410] interacts with 1 human partners:{Q08722}  
8752 [Cluster 1409]GO:0045987+P biological\_process [name] positive regulation of smooth muscle contraction [def] "Any process that activates or increases the frequency, rate or extent of smooth muscle contraction." [GOC  
8753 Pathogen[ Q2Q067] interacts with 1 human partners:{P11831}  
8754 Pathogen[ POC214] interacts with 1 human partners:{P11831}  
8755 Pathogen[ P03346] interacts with 1 human partners:{P11831}  
8756 Pathogen[ Q85601] interacts with 1 human partners:{P11831}  
8757 Pathogen[ P03383] interacts with 1 human partners:{P11831}  
8758 Pathogen[ P03410] interacts with 1 human partners:{P11831}  
8759 Pathogen[ P14075] interacts with 1 human partners:{P11831}  
8760 Pathogen[ POC206] interacts with 1 human partners:{P11831}  
8761 Pathogen[ P03363] interacts with 1 human partners:{P11831}

8762 [Cluster 1410]GO:0021678+P biological\_process [name] third ventricle development [def] "The process whose specific outcome is the progression of the third ventricle over time, from its formation to the mature structure. The third ventricle is the narrow cleft inferior to the corpus callosum, within the diencephalon, between the paired thalami. Its floor is formed by the hypothalamus, its anterior wall by the lamina terminalis, and its roof by ependyma, and it communicates with the fourth ventricle by the cerebral aqueduct, and with the lateral ventricles by the interventricular foramina." [GO\_REF

8763 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8NHM5}

8764 Pathogen[ P0C214] interacts with 2 human partners:{P35580;Q8NHM5}

8765 Pathogen[ P03346] interacts with 1 human partners:{Q8NHM5}

8766 Pathogen[ Q85601] interacts with 2 human partners:{Q8NHM5;P35580}

8767 Pathogen[ P14079] interacts with 2 human partners:{Q9BVM2;Q8NHM5}

8768 Pathogen[ P03383] interacts with 1 human partners:{P35580}

8769 Pathogen[ P03410] interacts with 2 human partners:{P35580;Q9BVM2}

8770 Pathogen[ P14075] interacts with 1 human partners:{Q9BVM2}

8771 Pathogen[ P0C206] interacts with 3 human partners:{Q9BVM2;Q8NHM5;P35580}

8772 [Cluster 1411]GO:0017004+P biological\_process [name] cytochrome complex assembly [def] "The aggregation, arrangement and bonding together of a cytochrome complex. A cytochrome complex is a protein complex in which at least one of the proteins is a cytochrome, i.e. a heme-containing protein involved in catalysis of redox reactions." [GOC

8773 Pathogen[ P14079] interacts with 2 human partners:{Q12887;P13498}

8774 Pathogen[ P03410] interacts with 1 human partners:{Q12887}

8775 [Cluster 1412]GO:0002502+P biological\_process [name] peptide antigen assembly with MHC class I protein complex [def] "The binding of a peptide to the antigen binding groove of an MHC class I protein complex. Class I here refers to classical class I molecules." [GOC

8776 Pathogen[ Q2Q067] interacts with 1 human partners:{P27797}

8777 Pathogen[ P0C214] interacts with 1 human partners:{P27797}

8778 Pathogen[ P03346] interacts with 1 human partners:{P27797}

8779 Pathogen[ Q85601] interacts with 1 human partners:{P27797}

8780 Pathogen[ P03383] interacts with 1 human partners:{P27797}

8781 Pathogen[ P03410] interacts with 1 human partners:{P27797}

8782 Pathogen[ P14075] interacts with 1 human partners:{P27797}

8783 Pathogen[ P0C206] interacts with 1 human partners:{P27797}

8784 Pathogen[ P03363] interacts with 1 human partners:{P27797}

8785 [Cluster 1413]GO:0006700+P biological\_process [name] C21-steroid hormone biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of C21-steroid hormones, steroid compounds containing 21 carbons which function as hormones." [GOC

8786 Pathogen[ Q2Q067] interacts with 1 human partners:{P15121}

8787 Pathogen[ P0C214] interacts with 1 human partners:{P15121}

8788 Pathogen[ P03346] interacts with 1 human partners:{P15121}

8789 Pathogen[ Q85601] interacts with 1 human partners:{P15121}

8790 Pathogen[ P0C206] interacts with 1 human partners:{P15121}

8791 [Cluster 1414]GO:0034241+P biological\_process [name] positive regulation of macrophage fusion [def] "Any process that activates or increases the frequency, rate or extent of macrophage fusion." [GOC

8792 Pathogen[ P14079] interacts with 1 human partners:{Q9H295}

8793 [Cluster 1415]GO:0000435+P biological\_process [name] positive regulation of transcription from RNA polymerase II promoter by galactose [def] "Any process involving galactose that activates or increases the rate of transcription from an RNA polymerase II promoter." [GOC

8794 Pathogen[ P03346] interacts with 1 human partners:{Q15788}

8795 Pathogen[ P14079] interacts with 1 human partners:{Q15788}

8796 Pathogen[ P0C206] interacts with 1 human partners:{Q15788}

8797 [Cluster 1416]GO:0007388+P biological\_process [name] posterior compartment specification [def] "The process involved in the specification of cell identity in the posterior compartments of the segmented embryo." [http

8798 Pathogen[ Q2Q067] interacts with 1 human partners:{P40426}

8799 Pathogen[ P03346] interacts with 1 human partners:{P40426}

8800 Pathogen[ Q85601] interacts with 1 human partners:{P40426}

8801 Pathogen[ P03410] interacts with 1 human partners:{P40426}

8802 Pathogen[ P0C206] interacts with 1 human partners:{P40426}

8803 Pathogen[ P03363] interacts with 1 human partners:{P40426}

8804 [Cluster 1417]GO:0030029+P biological\_process [name] actin filament-based process [def] "Any cellular process that depends upon or alters the actin cytoskeleton, that part of the cytoskeleton comprising actin filaments and their associated proteins." [GOC

8805 Pathogen[ Q2Q067] interacts with 1 human partners:{Q92556}

8806 Pathogen[ P0C214] interacts with 1 human partners:{Q92556}

8807 Pathogen[ P03346] interacts with 1 human partners:{Q92556}

8808 Pathogen[ P14079] interacts with 1 human partners:{Q92556}

8809 Pathogen[ P03410] interacts with 1 human partners:{Q92556}

8810 Pathogen[ P0C206] interacts with 1 human partners:{Q92556}

8811 Pathogen[ P03363] interacts with 1 human partners:{Q92556}

8812 [Cluster 1418]GO:0048515+P biological\_process [name] spermatid differentiation [def] "The process whose specific outcome is the progression of a spermatid over time, from initial commitment of the cell to a specific fate, to the fully functional differentiated cell." [GOC]

8813 Pathogen[ P03346] interacts with 1 human partners:{P41225}

8814 Pathogen[ P14079] interacts with 1 human partners:{O15259}

8815 Pathogen[ P03410] interacts with 1 human partners:{O15259}

8816 Pathogen[ P03363] interacts with 1 human partners:{O15259}

8817 [Cluster 1419]GO:0006172+P biological\_process [name] ADP biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of ADP, adenosine 5'-diphosphate." [GOC]

8818 Pathogen[ P14079] interacts with 1 human partners:{P25705}

8819 Pathogen[ P03410] interacts with 1 human partners:{P25705}

8820 [Cluster 1420]GO:0016139+P biological\_process [name] glycoside catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of glycosides, compounds in which a glycosyl group is substituted into a hydroxyl, thiol or selenol group in another compound." [GOC]

8821 Pathogen[ P0C214] interacts with 1 human partners:{Q9H227}

8822 Pathogen[ P14079] interacts with 2 human partners:{P06280;P17050}

8823 [Cluster 1421]GO:0043467+P biological\_process [name] regulation of generation of precursor metabolites and energy [def] "Any process that modulates the frequency, rate or extent of the chemical reactions and pathways resulting in the formation of precursor metabolites, substances from which energy is derived, and the processes involved in the liberation of energy from these substances." [GOC]

8824 Pathogen[ P03346] interacts with 1 human partners:{Q15270}

8825 Pathogen[ P0C206] interacts with 1 human partners:{Q15270}

8826 Pathogen[ P03363] interacts with 1 human partners:{Q15270}

8827 [Cluster 1422]GO:0008053+P biological\_process [name] mitochondrial fusion [def] "Merging of two or more mitochondria within a cell to form a single compartment." [PMID]

8828 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NX63}

8829 Pathogen[ P0C214] interacts with 1 human partners:{Q9NX63}

8830 Pathogen[ P03346] interacts with 1 human partners:{Q9NX63}

8831 Pathogen[ Q85601] interacts with 1 human partners:{Q9NX63}

8832 Pathogen[ P03383] interacts with 1 human partners:{Q9NX63}

8833 Pathogen[ P03410] interacts with 2 human partners:{Q9NQG6;Q9NX63}

8834 Pathogen[ P14075] interacts with 1 human partners:{Q9NX63}

8835 Pathogen[ P0C206] interacts with 1 human partners:{Q9NX63}

8836 Pathogen[ P03363] interacts with 1 human partners:{Q9NX63}

8837 [Cluster 1423]GO:0060122+P biological\_process [name] inner ear receptor stereocilium organization [def] "A process that is carried out at the cellular level which results in the assembly, arrangement of constituent parts, or disassembly of a stereocilium. A stereocilium is an actin-based protrusion from the apical surface of inner ear receptor cells." [GOC]

8838 Pathogen[ P14079] interacts with 1 human partners:{Q8TCU4}

8839 Pathogen[ P03410] interacts with 1 human partners:{Q8TCU4}

8840 Pathogen[ P0C206] interacts with 1 human partners:{Q8TCU4}

8841 [Cluster 1424]GO:0034698+P biological\_process [name] response to gonadotropin stimulus [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a gonadotropin stimulus." [GOC]

8842 Pathogen[ P14079] interacts with 1 human partners:{P10109}

8843 Pathogen[ P03410] interacts with 1 human partners:{P10109}

8844 [Cluster 1425]GO:0021873+P biological\_process [name] forebrain neuroblast division [def] "The division of a neuroblast located in the forebrain. Neuroblast division gives rise to at least another neuroblast." [GO\_REF]

8845 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8IZT6}

8846 Pathogen[ P0C214] interacts with 1 human partners:{Q8IZT6}

8847 Pathogen[ P03346] interacts with 1 human partners:{Q8IZT6}

8848 Pathogen[ Q85601] interacts with 1 human partners:{Q8IZT6}

8849 Pathogen[ P14079] interacts with 1 human partners:{Q8IZT6}

8850 Pathogen[ P03410] interacts with 1 human partners:{Q8IZT6}

8851 Pathogen[ P0C206] interacts with 1 human partners:{Q8IZT6}

8852 Pathogen[ P03363] interacts with 1 human partners:{Q8IZT6}

8853 [Cluster 1426]GO:0010269+P biological\_process [name] response to selenium ion [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a stimulus from selenium ion." [GOC]

8854 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NNW7}

8855 Pathogen[ P0C214] interacts with 1 human partners:{Q9NNW7}

8856 Pathogen[ P03346] interacts with 1 human partners:{Q9NNW7}

8857 Pathogen[ P14079] interacts with 1 human partners:{Q9NNW7}

8858 Pathogen[ P03410] interacts with 1 human partners:{Q9NNW7}

8859 Pathogen[ P0C206] interacts with 1 human partners:{Q9NNW7}

8860 Pathogen[ P03363] interacts with 1 human partners:{Q9NNW7}

8861 [Cluster 1427]GO:0001895+P biological\_process [name] retina homeostasis [def] "A tissue homeostatic process involved in the maintenance of an internal equilibrium within

the retina of the eye, including control of cellular proliferation and death and control of metabolic function." [GOC

8862 Pathogen[ P03346] interacts with 1 human partners:{P0C7Q2}

8863 Pathogen[ P14079] interacts with 2 human partners:{Q8NFWJ9;P0C7Q2}

8864 Pathogen[ P03410] interacts with 2 human partners:{Q8NFWJ9;P0C7Q2}

8865 Pathogen[ P0C206] interacts with 1 human partners:{Q8NFWJ9}

8866 Pathogen[ P03363] interacts with 2 human partners:{Q9NZN9;Q8NFWJ9}

8867 [Cluster 1428]GO:0072592+P biological\_process [name] oxygen metabolic process [def] "The chemical reactions and pathways involving diatomic oxygen (O2)." [CHEBI

8868 Pathogen[ P0C214] interacts with 1 human partners:{Q16798}

8869 [Cluster 1429]GO:0060444+P biological\_process [name] branching involved in mammary gland duct morphogenesis [def] "The process in which the branching structure of the mammary gland duct is generated and organized. The mammary gland is a large compound sebaceous gland that in female mammals is modified to secrete milk." [GOC

8870 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9Y297;P35548;P43268}

8871 Pathogen[ P0C214] interacts with 3 human partners:{Q9Y297;P43268;P35548}

8872 Pathogen[ P03346] interacts with 3 human partners:{P35548;P43268;Q9Y297}

8873 Pathogen[ Q85601] interacts with 2 human partners:{P35548;P43268}

8874 Pathogen[ P03383] interacts with 2 human partners:{P35548;P43268}

8875 Pathogen[ P03410] interacts with 2 human partners:{P35548;P43268}

8876 Pathogen[ P14075] interacts with 2 human partners:{P43268;P35548}

8877 Pathogen[ P0C206] interacts with 2 human partners:{P43268;P35548}

8878 Pathogen[ P03363] interacts with 2 human partners:{P35548;P43268}

8879 [Cluster 1430]GO:0071284+P biological\_process [name] cellular response to lead ion [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a lead ion stimulus." [GOC

8880 Pathogen[ Q2Q067] interacts with 1 human partners:{P08397}

8881 Pathogen[ P0C214] interacts with 1 human partners:{P08397}

8882 Pathogen[ Q85601] interacts with 1 human partners:{P08397}

8883 Pathogen[ P14079] interacts with 1 human partners:{P08397}

8884 Pathogen[ P03383] interacts with 1 human partners:{P08397}

8885 Pathogen[ P03410] interacts with 1 human partners:{P08397}

8886 Pathogen[ P14075] interacts with 1 human partners:{P08397}

8887 Pathogen[ P0C206] interacts with 1 human partners:{P08397}

8888 [Cluster 1431]GO:0070350+P biological\_process [name] regulation of white fat cell proliferation [def] "Any process that modulates the frequency, rate or extent of white fat cell proliferation." [GOC

8889 Pathogen[ P14079] interacts with 1 human partners:{Q9C0B1}

8890 Pathogen[ P03410] interacts with 1 human partners:{Q9C0B1}

8891 [Cluster 1432]GO:0046327+P biological\_process [name] glycerol biosynthetic process from pyruvate [def] "The chemical reactions and pathways resulting in the formation of glycerol, 1,2,3-propanetriol, from other compounds, including pyruvate." [GOC

8892 Pathogen[ P0C214] interacts with 1 human partners:{P35558}

8893 [Cluster 1433]GO:0018146+P biological\_process [name] keratan sulfate biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of keratan sulfate, a glycosaminoglycan with repeat units consisting of beta-1,4-linked D-galactopyranosyl-beta-(1,4)-N-acetyl-D-glucosamine 6-sulfate and with variable amounts of fucose, sialic acid and mannose units\_ keratan sulfate chains are covalently linked by a glycosidic attachment through the trisaccharide galactosyl-galactosyl-xylose to peptidyl-threonine or serine residues." [ISBN

8894 Pathogen[ P14079] interacts with 1 human partners:{O43505}

8895 Pathogen[ P03410] interacts with 1 human partners:{O43505}

8896 Pathogen[ P14075] interacts with 1 human partners:{O43505}

8897 Pathogen[ P0C206] interacts with 1 human partners:{O43505}

8898 [Cluster 1434]GO:0019556+P biological\_process [name] histidine catabolic process to glutamate and formamide [def] "The chemical reactions and pathways resulting in the breakdown of histidine into other compounds, including glutamate and formamide." [GOC

8899 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96NU7}

8900 Pathogen[ P0C214] interacts with 1 human partners:{Q96NU7}

8901 Pathogen[ P03346] interacts with 1 human partners:{Q96NU7}

8902 Pathogen[ P14079] interacts with 4 human partners:{P42357;Q96NU7;Q96N76;O95954}

8903 Pathogen[ P03410] interacts with 3 human partners:{O95954;Q96NU7;Q96N76}

8904 Pathogen[ P14075] interacts with 1 human partners:{Q96NU7}

8905 Pathogen[ P0C206] interacts with 2 human partners:{O95954;Q96NU7}

8906 [Cluster 1435]GO:0006741+P biological\_process [name] NADP biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of nicotinamide-adenine dinucleotide phosphate, a coenzyme involved in many redox and biosynthetic reactions\_biosynthesis may be of either the oxidized form, NADP, or the reduced form, NADPH." [GOC

8907 Pathogen[ P0C214] interacts with 1 human partners:{P48163}

8908 Pathogen[ P14079] interacts with 2 human partners:{O95544;Q4G0N4}

8909 Pathogen[ P03410] interacts with 1 human partners:{Q4G0N4}

8910 [Cluster 1436]GO:2000507+P biological\_process [name] positive regulation of energy homeostasis [def] "Any process that activates or increases the frequency, rate or extent of energy homeostasis." [GOC

8911 Pathogen[ P0C214] interacts with 1 human partners:{Q9BQI5}

8912 Pathogen[ P03346] interacts with 1 human partners:{Q9BQI5}

8913 Pathogen[ P14079] interacts with 1 human partners:{Q9BQI5}

8914 Pathogen[ P03383] interacts with 1 human partners:{Q9BQI5}

8915 Pathogen[ P03410] interacts with 1 human partners:{Q9BQI5}

8916 Pathogen[ P14075] interacts with 1 human partners:{Q9BQI5}

8917 Pathogen[ P0C206] interacts with 1 human partners:{Q9BQI5}

8918 Pathogen[ P03363] interacts with 1 human partners:{Q9BQI5}

8919 [Cluster 1437]GO:0070625+P biological\_process [name] zymogen granule exocytosis [def] "The release of intracellular molecules contained within the zymogen granule by fusion of the granule with the plasma membrane of the oocyte, requiring calcium ions." [GOC

8920 Pathogen[ P03410] interacts with 1 human partners:{Q9BRK5}

8921 [Cluster 1438]GO:0048843+P biological\_process [name] negative regulation of axon extension involved in axon guidance [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of axon extension involved in axon guidance." [GOC

8922 Pathogen[ Q2Q067] interacts with 1 human partners:{O14786}

8923 Pathogen[ P0C214] interacts with 1 human partners:{O14786}

8924 Pathogen[ P03346] interacts with 1 human partners:{O14786}

8925 Pathogen[ Q85601] interacts with 1 human partners:{O14786}

8926 Pathogen[ P03410] interacts with 1 human partners:{O14786}

8927 Pathogen[ P0C206] interacts with 1 human partners:{O14786}

8928 Pathogen[ P03363] interacts with 1 human partners:{O14786}

8929 [Cluster 1439]GO:0038084+P

8930 Pathogen[ Q2Q067] interacts with 1 human partners:{O14786}

8931 Pathogen[ P0C214] interacts with 1 human partners:{O14786}

8932 Pathogen[ P03346] interacts with 1 human partners:{O14786}

8933 Pathogen[ Q85601] interacts with 1 human partners:{O14786}

8934 Pathogen[ P03410] interacts with 1 human partners:{O14786}

8935 Pathogen[ P0C206] interacts with 1 human partners:{O14786}

8936 Pathogen[ P03363] interacts with 1 human partners:{O14786}

8937 [Cluster 1440]GO:0060816+P biological\_process [name] random inactivation of X chromosome [def] "Compensating for the two-fold variation in X-chromosome

8938 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NVW2}

8939 Pathogen[ P0C214] interacts with 1 human partners:{Q9NVW2}

8940 Pathogen[ P03346] interacts with 1 human partners:{Q9NVW2}

8941 Pathogen[ Q85601] interacts with 1 human partners:{Q9NVW2}

8942 Pathogen[ P0C206] interacts with 1 human partners:{Q9NVW2}

8943 Pathogen[ P03363] interacts with 1 human partners:{Q9NVW2}

8944 [Cluster 1441]GO:0060527+P biological\_process [name] prostate epithelial cord arborization involved in prostate glandular acinus morphogenesis [def] "The branching morphogenesis process in which the prostate epithelial cords branch freely to create the structure of the prostate acini." [GOC

8945 Pathogen[ P03346] interacts with 2 human partners:{P35453;Q92826}

8946 Pathogen[ P14079] interacts with 1 human partners:{Q8WU20}

8947 Pathogen[ P03410] interacts with 1 human partners:{Q8WU20}

8948 Pathogen[ P0C206] interacts with 1 human partners:{Q8WU20}

8949 Pathogen[ P03363] interacts with 2 human partners:{P35453;Q92826}

8950 [Cluster 1442]GO:0080164+P biological\_process [name] regulation of nitric oxide metabolic process [def] "Any process that modulates the frequency, rate or extent of the chemical reactions and pathways involving nitric oxide, nitrogen monoxide (NO), a colorless gas only slightly soluble in water." [GOC

8951 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BQE4}

8952 Pathogen[ P0C214] interacts with 1 human partners:{Q9BQE4}

8953 Pathogen[ Q85601] interacts with 1 human partners:{Q9BQE4}

8954 Pathogen[ P14079] interacts with 1 human partners:{Q9BQE4}

8955 Pathogen[ P03383] interacts with 1 human partners:{Q9BQE4}

8956 Pathogen[ P03410] interacts with 1 human partners:{Q9BQE4}

8957 Pathogen[ P14075] interacts with 1 human partners:{Q9BQE4}

8958 Pathogen[ P0C206] interacts with 1 human partners:{Q9BQE4}

8959 [Cluster 1443]GO:0002003+P biological\_process [name] angiotensin maturation [def] "The process leading to the attainment of the full functional capacity of angiotensin by conversion of renin substrate into mature angiotensin in the blood." [ISBN

8960 Pathogen[ P14079] interacts with 1 human partners:{O75787}

8961 Pathogen[ P03410] interacts with 1 human partners:{O75787}

8962 Pathogen[ P0C206] interacts with 1 human partners:{O75787}

8963 [Cluster 1444]GO:0045080+P biological\_process [name] positive regulation of chemokine biosynthetic process [def] "Any process that activates or increases the frequency, rate or extent of the chemical reactions and pathways resulting in the formation of chemokines." [GOC

8964 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8IUC6}

8965 Pathogen[ P0C214] interacts with 1 human partners:{Q8IUC6}

8966 Pathogen[ P03346] interacts with 1 human partners:{Q8IUC6}

8967 Pathogen[ Q85601] interacts with 1 human partners:{Q8IUC6}

8968 Pathogen[ P14079] interacts with 2 human partners:{Q8IUC6;Q99836}

8969 Pathogen[ P03383] interacts with 1 human partners:{Q8IUC6}



8970 Pathogen[ P03410] interacts with 1 human partners:{Q8IUC6}

8971 Pathogen[ P14075] interacts with 1 human partners:{Q8IUC6}

8972 Pathogen[ P0C206] interacts with 1 human partners:{Q8IUC6}

8973 [Cluster 1445]GO:0035854+P biological\_process [name] eosinophil fate commitment [def] "The process in which the developmental fate of a cell becomes restricted such that it will develop into a eosinophil cell. A eosinophil is any of the immature or mature forms of a granular leukocyte with a nucleus that usually has two lobes connected by one or more slender threads of chromatin, and cytoplasm containing coarse, round granules that are uniform in size and which can be stained by the dye eosin." [CL

8974 Pathogen[ Q2Q067] interacts with 2 human partners:{P15976;P23769}

8975 Pathogen[ P0C214] interacts with 1 human partners:{P23769}

8976 Pathogen[ P03346] interacts with 2 human partners:{P23769;P15976}

8977 Pathogen[ Q85601] interacts with 2 human partners:{P15976;P23769}

8978 Pathogen[ P14079] interacts with 2 human partners:{P15976;P23769}

8979 Pathogen[ P03383] interacts with 1 human partners:{P23769}

8980 Pathogen[ P03410] interacts with 2 human partners:{P23769;P15976}

8981 Pathogen[ P14075] interacts with 1 human partners:{P23769}

8982 Pathogen[ P0C206] interacts with 2 human partners:{P15976;P23769}

8983 [Cluster 1446]GO:0035573+P biological\_process [name] N-terminal peptidyl-serine trimethylation [def] "The trimethylation of the N-terminal serine of proteins to form the derivative N,N,N-trimethylserine." [PMID

8984 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BV86}

8985 Pathogen[ P0C214] interacts with 1 human partners:{Q9BV86}

8986 Pathogen[ P03346] interacts with 1 human partners:{Q9BV86}

8987 Pathogen[ Q85601] interacts with 1 human partners:{Q9BV86}

8988 Pathogen[ P14079] interacts with 1 human partners:{Q9BV86}

8989 Pathogen[ P03410] interacts with 1 human partners:{Q9BV86}

8990 Pathogen[ P0C206] interacts with 1 human partners:{Q9BV86}

8991 Pathogen[ P03363] interacts with 1 human partners:{Q9BV86}

8992 [Cluster 1447]GO:0003300+P biological\_process [name] cardiac muscle hypertrophy [def] "The enlargement or overgrowth of all or part of the heart muscle due to an increase in size of cardiac muscle cells without cell division." [GOC

8993 Pathogen[ P14079] interacts with 1 human partners:{O15273}

8994 Pathogen[ P03410] interacts with 1 human partners:{O15273}

8995 Pathogen[ P0C206] interacts with 1 human partners:{P50461}

8996 [Cluster 1448]GO:0016554+P biological\_process [name] cytidine to uridine editing [def] "The conversion of a cytosine residue to uridine in an RNA molecule by deamination." [PMID

8997 Pathogen[ P03346] interacts with 1 human partners:{Q9NQ94}

8998 Pathogen[ P14079] interacts with 2 human partners:{P41238;Q9NQ94}

8999 Pathogen[ P03410] interacts with 1 human partners:{P41238}

9000 Pathogen[ P0C206] interacts with 1 human partners:{P41238}

9001 Pathogen[ P03363] interacts with 1 human partners:{Q9NQ94}

9002 [Cluster 1449]GO:0042703+P biological\_process [name] menstruation [def] "The cyclic, physiologic discharge through the vagina of blood and endometrial tissues from the nonpregnant uterus." [GOC

9003 Pathogen[ P03346] interacts with 1 human partners:{P58012}

9004 [Cluster 1450]GO:0050819+P biological\_process [name] negative regulation of coagulation [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of coagulation." [GOC

9005 Pathogen[ P14079] interacts with 1 human partners:{P08758}

9006 [Cluster 1451]GO:0032411+P biological\_process [name] positive regulation of transporter activity [def] "Any process that activates or increases the activity of a transporter." [GOC

9007 Pathogen[ P14079] interacts with 1 human partners:{O43761}

9008 Pathogen[ P03410] interacts with 1 human partners:{O43761}

9009 [Cluster 1452]GO:0046931+P biological\_process [name] pore complex assembly [def] "The aggregation, arrangement and bonding together of a set of components to form a pore complex. A pore complex is a small opening in a membrane that allows the passage of liquids and/or gases." [GOC

9010 Pathogen[ P0C214] interacts with 1 human partners:{Q92934}

9011 Pathogen[ P14079] interacts with 1 human partners:{Q92934}

9012 Pathogen[ P03410] interacts with 1 human partners:{Q92934}

9013 Pathogen[ P0C206] interacts with 1 human partners:{Q92934}

9014 [Cluster 1453]GO:0043113+P biological\_process [name] receptor clustering [def] "The receptor metabolic process that results in grouping of a set of receptors at a cellular location, often to amplify the sensitivity of a signaling response." [GOC

9015 Pathogen[ Q2Q067] interacts with 1 human partners:{Q86UL8}

9016 Pathogen[ P03346] interacts with 3 human partners:{Q86UL8;Q15700;Q9NRD5}

9017 Pathogen[ Q85601] interacts with 1 human partners:{Q86UL8}

9018 Pathogen[ P14079] interacts with 2 human partners:{Q15700;Q86UL8}

9019 Pathogen[ P03410] interacts with 3 human partners:{Q15700;Q9NRD5;Q86UL8}

9020 Pathogen[ P0C206] interacts with 3 human partners:{Q15700;Q86UL8;Q9NRD5}

9021 Pathogen[ P03363] interacts with 2 human partners:{Q15700;Q86UL8}

9022 [Cluster 1454]GO:0045337+P biological\_process [name] farnesyl diphosphate biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of

farnesyl diphosphate." [GOC

9023 Pathogen[ Q2Q067] interacts with 1 human partners:{P14324}

9024 Pathogen[ POC214] interacts with 1 human partners:{P14324}

9025 Pathogen[ P03346] interacts with 1 human partners:{P14324}

9026 Pathogen[ Q85601] interacts with 1 human partners:{P14324}

9027 Pathogen[ P14079] interacts with 1 human partners:{P14324}

9028 Pathogen[ P03383] interacts with 1 human partners:{P14324}

9029 Pathogen[ P03410] interacts with 1 human partners:{P14324}

9030 Pathogen[ P14075] interacts with 1 human partners:{P14324}

9031 Pathogen[ POC206] interacts with 1 human partners:{P14324}

9032 [Cluster 1455]GO:0060290+P biological\_process [name] transdifferentiation [def] "The conversion of a differentiated cell of one fate into a differentiated cell of another fate without first undergoing cell division or reversion to a more primitive or stem cell-like fate." [GOC

9033 Pathogen[ Q2Q067] interacts with 1 human partners:{P84022}

9034 Pathogen[ POC214] interacts with 1 human partners:{P84022}

9035 Pathogen[ P03346] interacts with 1 human partners:{P84022}

9036 Pathogen[ Q85601] interacts with 1 human partners:{P84022}

9037 Pathogen[ P03383] interacts with 1 human partners:{P84022}

9038 Pathogen[ P03410] interacts with 1 human partners:{P84022}

9039 Pathogen[ P14075] interacts with 1 human partners:{P84022}

9040 Pathogen[ POC206] interacts with 1 human partners:{P84022}

9041 Pathogen[ P03363] interacts with 1 human partners:{P84022}

9042 [Cluster 1456]GO:0048680+P biological\_process [name] positive regulation of axon regeneration [def] "Any process that activates, maintains or increases the rate of axon regeneration." [GOC

9043 Pathogen[ Q85601] interacts with 1 human partners:{Q9GZM8}

9044 Pathogen[ P14079] interacts with 1 human partners:{Q9GZM8}

9045 Pathogen[ P03410] interacts with 1 human partners:{Q9GZM8}

9046 Pathogen[ POC206] interacts with 1 human partners:{Q9GZM8}

9047 [Cluster 1457]GO:0021703+P biological\_process [name] locus ceruleus development [def] "The process whose specific outcome is the progression of the locus ceruleus over time, from its formation to the mature structure. The locus ceruleus is a dense cluster of neurons within the dorsorostral pons. This nucleus is the major location of neurons that release norepinephrine throughout the brain, and is responsible for physiological responses to stress and panic." [GO\_REF

9048 Pathogen[ Q2Q067] interacts with 1 human partners:{O14813}

9049 Pathogen[ POC214] interacts with 1 human partners:{O14813}

9050 Pathogen[ P03346] interacts with 1 human partners:{O14813}

9051 Pathogen[ Q85601] interacts with 1 human partners:{O14813}

9052 Pathogen[ P14079] interacts with 1 human partners:{O14813}

9053 Pathogen[ P03410] interacts with 1 human partners:{O14813}

9054 Pathogen[ POC206] interacts with 1 human partners:{O14813}

9055 Pathogen[ P03363] interacts with 1 human partners:{O14813}

9056 [Cluster 1458]GO:0017121+P biological\_process [name] phospholipid scrambling [def] "The movement of a population of phospholipid molecules from one leaflet of the plasma membrane bilayer to the opposite leaflet, resulting in loss of lipid asymmetry and surface exposure of phosphatidylserine (PS) and phosphatidylethanolamine (PE)." [PMID

9057 Pathogen[ Q2Q067] interacts with 1 human partners:{O15162}

9058 Pathogen[ POC214] interacts with 1 human partners:{O15162}

9059 Pathogen[ P03346] interacts with 1 human partners:{O15162}

9060 Pathogen[ Q85601] interacts with 1 human partners:{O15162}

9061 Pathogen[ P14079] interacts with 2 human partners:{Q9NRQ2;O15162}

9062 Pathogen[ P03383] interacts with 1 human partners:{O15162}

9063 Pathogen[ P03410] interacts with 3 human partners:{Q9NRQ2;Q9NRY6;O15162}

9064 Pathogen[ P14075] interacts with 1 human partners:{O15162}

9065 Pathogen[ POC206] interacts with 1 human partners:{O15162}

9066 [Cluster 1459]GO:0003257+P biological\_process [name] positive regulation of transcription from RNA polymerase II promoter involved in myocardial precursor cell differentiation [def] "Any process that increases the frequency, rate or extent of transcription from an RNA polymerase II promoter that contributes to the differentiation of a myocardial precursor cell." [GOC

9067 Pathogen[ Q2Q067] interacts with 1 human partners:{P11831}

9068 Pathogen[ POC214] interacts with 1 human partners:{P11831}

9069 Pathogen[ P03346] interacts with 1 human partners:{P11831}

9070 Pathogen[ Q85601] interacts with 1 human partners:{P11831}

9071 Pathogen[ P03383] interacts with 1 human partners:{P11831}

9072 Pathogen[ P03410] interacts with 1 human partners:{P11831}

9073 Pathogen[ P14075] interacts with 1 human partners:{P11831}

9074 Pathogen[ POC206] interacts with 1 human partners:{P11831}

9075 Pathogen[ P03363] interacts with 1 human partners:{P11831}

9076 [Cluster 1460]GO:0021955+P biological\_process [name] central nervous system neuron axonogenesis [def] "Generation of a long process from a neuron whose cell body resides in the central nervous system. The process carries efferent (outgoing) action potentials from the cell body towards target cells." [GO\_REF

9077 Pathogen[ Q85601] interacts with 1 human partners:{Q9GZM8}

9078 Pathogen[ P14079] interacts with 1 human partners:{Q9GZM8}

9079 Pathogen[ P03410] interacts with 1 human partners:{Q9GZM8}

9080 Pathogen[ P0C206] interacts with 1 human partners:{Q9GZM8}

9081 [Cluster 1461]GO:0060670+P biological\_process [name] branching involved in embryonic placenta morphogenesis [def] "The process in which the branches of the fetal placental villi are generated and organized. The villous part of the placenta is called the labyrinth layer." [GOC

9082 Pathogen[ P0C214] interacts with 1 human partners:{P62993}

9083 Pathogen[ P03346] interacts with 2 human partners:{Q9NP62;P62993}

9084 Pathogen[ Q85601] interacts with 1 human partners:{P62993}

9085 Pathogen[ P14079] interacts with 1 human partners:{P62993}

9086 Pathogen[ P03410] interacts with 1 human partners:{P62993}

9087 Pathogen[ P0C206] interacts with 2 human partners:{P62993;Q9NP62}

9088 [Cluster 1462]GO:0006233+P biological\_process [name] dTDP biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of dTDP, deoxyribosylthymine diphosphate (2'-deoxyribosylthymine5'-diphosphate)." [ISBN

9089 Pathogen[ P0C214] interacts with 1 human partners:{P23919}

9090 Pathogen[ P14079] interacts with 1 human partners:{P23919}

9091 Pathogen[ P03410] interacts with 1 human partners:{P23919}

9092 [Cluster 1463]GO:0050731+P biological\_process [name] positive regulation of peptidyl-tyrosine phosphorylation [def] "Any process that activates or increases the frequency, rate or extent of the phosphorylation of peptidyl-tyrosine." [GOC

9093 Pathogen[ Q2Q067] interacts with 5 human partners:{O14786;Q9H2P0;P15976;Q9BVC4;Q6R327}

9094 Pathogen[ P0C214] interacts with 4 human partners:{O14786;Q9BVC4;Q6R327;Q9H2P0}

9095 Pathogen[ P03346] interacts with 5 human partners:{Q9H2P0;Q9BVC4;P15976;Q6R327;O14786}

9096 Pathogen[ Q85601] interacts with 4 human partners:{P15976;O14786;Q9BVC4;Q9H2P0}

9097 Pathogen[ P14079] interacts with 6 human partners:{Q6R327;P20809;P15976;Q9H2P0;Q9BVC4;Q9GZZ8}

9098 Pathogen[ P03410] interacts with 6 human partners:{O14786;Q9GZZ8;P20809;Q9BVC4;Q6R327;P15976}

9099 Pathogen[ P14075] interacts with 3 human partners:{Q6R327;P20809;Q9GZZ8}

9100 Pathogen[ P0C206] interacts with 6 human partners:{P15976;O14786;Q6R327;P20809;Q9H2P0;Q9BVC4}

9101 Pathogen[ P03363] interacts with 4 human partners:{Q9BVC4;O14786;Q9H2P0;Q6R327}

9102 [Cluster 1464]GO:0009081+P biological\_process [name] branched chain family amino acid metabolic process [def] "The chemical reactions and pathways involving amino acids containing a branched carbon skeleton, comprising isoleucine, leucine and valine." [GOC

9103 Pathogen[ P0C214] interacts with 2 human partners:{O15382;P54687}

9104 Pathogen[ Q85601] interacts with 1 human partners:{O15382}

9105 Pathogen[ P14079] interacts with 1 human partners:{O15382}

9106 Pathogen[ P03410] interacts with 1 human partners:{O15382}

9107 Pathogen[ P0C206] interacts with 1 human partners:{O15382}

9108 [Cluster 1465]GO:0090035+P biological\_process [name] positive regulation of chaperone-mediated protein complex assembly [def] "Any process that increases the frequency, rate, or extent of chaperone-mediated protein complex assembly. Chaperone-mediated protein complex assembly is the aggregation, arrangement and bonding together of a set of components to form a protein complex, mediated by chaperone molecules that do not form part of the finished complex." [GOC

9109 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UNE7}

9110 Pathogen[ P0C214] interacts with 1 human partners:{Q9UNE7}

9111 Pathogen[ P03346] interacts with 1 human partners:{Q9UNE7}

9112 Pathogen[ Q85601] interacts with 1 human partners:{Q9UNE7}

9113 Pathogen[ P03410] interacts with 1 human partners:{Q9UNE7}

9114 Pathogen[ P0C206] interacts with 1 human partners:{Q9UNE7}

9115 Pathogen[ P03363] interacts with 1 human partners:{Q9UNE7}

9116 [Cluster 1466]GO:0072139+P biological\_process [name] glomerular parietal epithelial cell differentiation [def] "The process in which a relatively unspecialized cell acquires specialized features of a glomerular parietal epithelial cell. Glomerular parietal epithelial cells are specialized epithelial cells that form tight junctions as a barrier to protein transport." [GOC

9117 Pathogen[ Q2Q067] interacts with 1 human partners:{P25063}

9118 Pathogen[ P0C214] interacts with 1 human partners:{P25063}

9119 Pathogen[ P03346] interacts with 1 human partners:{P25063}

9120 Pathogen[ P14079] interacts with 1 human partners:{P25063}

9121 Pathogen[ P03383] interacts with 1 human partners:{P25063}

9122 Pathogen[ P03410] interacts with 1 human partners:{P25063}

9123 Pathogen[ P14075] interacts with 1 human partners:{P25063}

9124 Pathogen[ P0C206] interacts with 1 human partners:{P25063}

9125 [Cluster 1467]GO:0060413+P biological\_process [name] atrial septum morphogenesis [def] "The developmental process in which atrial septum is generated and organized. The atrial septum separates the upper chambers (the atria) of the heart from one another." [GOC

9126 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8IX07}

9127 Pathogen[ P0C214] interacts with 1 human partners:{Q8IX07}

9128 Pathogen[ P03346] interacts with 1 human partners:{Q8IX07}

9129 Pathogen[ Q85601] interacts with 1 human partners:{Q8IX07}

9130 Pathogen[ P14079] interacts with 1 human partners:{Q8IX07}

9131 Pathogen[ P03410] interacts with 1 human partners:{Q8IX07}

9132 Pathogen[ P0C206] interacts with 1 human partners:{Q8IX07}

9133 [Cluster 1468]GO:0055123+P biological\_process [name] digestive system development [def] "The process whose specific outcome is the progression of the digestive system over time, from its formation to the mature structure. The digestive system is the entire structure in which digestion takes place. Digestion is all of the physical, chemical, and biochemical processes carried out by multicellular organisms to break down ingested nutrients into components that may be easily absorbed and directed into metabolism." [GOC

9134 Pathogen[ P03346] interacts with 2 human partners:{P78367;Q9HBU1}

9135 Pathogen[ P03363] interacts with 2 human partners:{P78367;Q9HBU1}

9136 [Cluster 1469]GO:0051647+P biological\_process [name] nucleus localization [def] "Any process in which the nucleus is transported to, and/or maintained in, a specific location within the cell." [GOC

9137 Pathogen[ Q2Q067] interacts with 1 human partners:{P60953}

9138 Pathogen[ P0C214] interacts with 1 human partners:{P60953}

9139 Pathogen[ P03346] interacts with 1 human partners:{P60953}

9140 Pathogen[ Q85601] interacts with 1 human partners:{P60953}

9141 Pathogen[ P03383] interacts with 1 human partners:{P60953}

9142 Pathogen[ P03410] interacts with 1 human partners:{P60953}

9143 Pathogen[ P14075] interacts with 1 human partners:{P60953}

9144 Pathogen[ P0C206] interacts with 1 human partners:{P60953}

9145 Pathogen[ P03363] interacts with 1 human partners:{P60953}

9146 [Cluster 1470]GO:0051205+P biological\_process [name] protein insertion into membrane [def] "The process that results in the incorporation of a protein into a biological membrane." [GOC

9147 Pathogen[ P0C214] interacts with 1 human partners:{Q9H902}

9148 Pathogen[ P03346] interacts with 1 human partners:{Q9H902}

9149 Pathogen[ Q85601] interacts with 1 human partners:{Q9H902}

9150 Pathogen[ P14079] interacts with 2 human partners:{Q15070;Q9H902}

9151 Pathogen[ P03410] interacts with 2 human partners:{Q9H902;Q15070}

9152 Pathogen[ P14075] interacts with 1 human partners:{Q15070}

9153 Pathogen[ P0C206] interacts with 2 human partners:{Q15070;Q9H902}

9154 Pathogen[ P03363] interacts with 1 human partners:{Q9H902}

9155 [Cluster 1471]GO:0009107+P biological\_process [name] lipoate biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of lipoate, 1,2-dithiolane-3-pentanoate, the anion derived from lipoic acid." [GOC

9156 Pathogen[ P0C214] interacts with 1 human partners:{A6NK58}

9157 Pathogen[ P14079] interacts with 1 human partners:{A6NK58}

9158 Pathogen[ P03410] interacts with 1 human partners:{A6NK58}

9159 Pathogen[ P0C206] interacts with 1 human partners:{A6NK58}

9160 [Cluster 1472]GO:0015672+P biological\_process [name] monovalent inorganic cation transport [def] "The directed movement of inorganic cations with a valency of one into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore. Inorganic cations are atoms or small molecules with a positive charge which do not contain carbon in covalent linkage." [GOC

9161 Pathogen[ P0C214] interacts with 1 human partners:{P16157}

9162 Pathogen[ P03346] interacts with 1 human partners:{P16157}

9163 Pathogen[ Q85601] interacts with 1 human partners:{P16157}

9164 Pathogen[ P14079] interacts with 3 human partners:{P16157;Q9UN42;Q9H6F2}

9165 Pathogen[ P03410] interacts with 3 human partners:{P16157;Q9H6F2;Q9UN42}

9166 Pathogen[ P0C206] interacts with 2 human partners:{P16157;Q9UN42}

9167 Pathogen[ P03363] interacts with 1 human partners:{P16157}

9168 [Cluster 1473]GO:0016476+P biological\_process [name] regulation of embryonic cell shape [def] "Any process that modulates the surface configuration of an embryonic cell." [GOC

9169 Pathogen[ P14079] interacts with 1 human partners:{O95876}

9170 Pathogen[ P03410] interacts with 1 human partners:{O95876}

9171 Pathogen[ P0C206] interacts with 2 human partners:{Q16181;O95876}

9172 [Cluster 1474]GO:0001963+P biological\_process [name] synaptic transmission, dopaminergic [def] "The process of communication from a neuron to another neuron across a synapse using the neurotransmitter dopamine." [GOC

9173 Pathogen[ Q2Q067] interacts with 1 human partners:{Q99497}

9174 Pathogen[ P0C214] interacts with 1 human partners:{Q99497}

9175 Pathogen[ P03346] interacts with 1 human partners:{Q99497}

9176 Pathogen[ Q85601] interacts with 1 human partners:{Q99497}

9177 Pathogen[ P14079] interacts with 1 human partners:{Q99497}

9178 Pathogen[ P03410] interacts with 1 human partners:{Q99497}

9179 Pathogen[ P0C206] interacts with 1 human partners:{Q99497}

9180 [Cluster 1475]GO:0050427+P biological\_process [name] 3'-phosphoadenosine 5'-phosphosulfate metabolic process [def] "The chemical reactions and pathways involving 3'-phosphoadenosine 5'-phosphosulfate, a naturally occurring mixed anhydride. It is an intermediate in the formation of a variety of sulfo compounds in biological systems."

[ISBN

9181 Pathogen[ Q2Q067] interacts with 1 human partners:{000204}

9182 Pathogen[ P0C214] interacts with 2 human partners:{000204;Q06520}

9183 Pathogen[ P03346] interacts with 2 human partners:{000204;Q06520}

9184 Pathogen[ Q85601] interacts with 1 human partners:{000204}

9185 Pathogen[ P03410] interacts with 1 human partners:{000204}

9186 Pathogen[ P0C206] interacts with 1 human partners:{000204}

9187 Pathogen[ P03363] interacts with 2 human partners:{000204;Q06520}

9188 [Cluster 1476]GO:0010918+P biological\_process [name] positive regulation of mitochondrial membrane potential [def] "Any process that activates or increases the frequency, rate or extent of establishment or extent of a mitochondrial membrane potential, the electric potential existing across any mitochondrial membrane arising from charges in the membrane itself and from the charges present in the media on either side of the membrane." [GOC

9189 Pathogen[ P0C214] interacts with 1 human partners:{Q92934}

9190 Pathogen[ P14079] interacts with 1 human partners:{Q92934}

9191 Pathogen[ P03410] interacts with 1 human partners:{Q92934}

9192 Pathogen[ P0C206] interacts with 1 human partners:{Q92934}

9193 [Cluster 1477]GO:0050671+P biological\_process [name] positive regulation of lymphocyte proliferation [def] "Any process that activates or increases the rate or extent of lymphocyte proliferation." [GOC

9194 Pathogen[ P14079] interacts with 2 human partners:{P29459;Q99836}

9195 Pathogen[ P03410] interacts with 1 human partners:{P29459}

9196 [Cluster 1478]GO:0060993+P biological\_process [name] kidney morphogenesis [def] "Morphogenesis of a kidney. A kidney is an organ that filters the blood and excretes the end products of body metabolism in the form of urine." [GOC

9197 Pathogen[ Q2Q067] interacts with 1 human partners:{Q63HK5}

9198 Pathogen[ P0C214] interacts with 1 human partners:{Q63HK5}

9199 Pathogen[ P03346] interacts with 2 human partners:{Q06945;Q63HK5}

9200 Pathogen[ Q85601] interacts with 1 human partners:{Q63HK5}

9201 Pathogen[ P14079] interacts with 1 human partners:{Q63HK5}

9202 Pathogen[ P03410] interacts with 1 human partners:{Q63HK5}

9203 Pathogen[ P0C206] interacts with 1 human partners:{Q63HK5}

9204 Pathogen[ P03363] interacts with 1 human partners:{Q63HK5}

9205 [Cluster 1479]GO:0031340+P biological\_process [name] positive regulation of vesicle fusion [def] "Any process that activates or increases the frequency, rate or extent of vesicle fusion." [GOC

9206 Pathogen[ P14079] interacts with 1 human partners:{P04083}

9207 [Cluster 1480]GO:0045807+P biological\_process [name] positive regulation of endocytosis [def] "Any process that activates or increases the frequency, rate or extent of endocytosis." [GOC

9208 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96PU5}

9209 Pathogen[ P0C214] interacts with 1 human partners:{Q96PU5}

9210 Pathogen[ P03346] interacts with 1 human partners:{Q96PU5}

9211 Pathogen[ Q85601] interacts with 1 human partners:{Q96PU5}

9212 Pathogen[ P0C206] interacts with 2 human partners:{Q96PU5;Q86YT6}

9213 Pathogen[ P03363] interacts with 1 human partners:{Q96PU5}

9214 [Cluster 1481]GO:0043518+P biological\_process [name] negative regulation of DNA damage response, signal transduction by p53 class mediator [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the cascade of processes induced by the cell cycle regulator phosphoprotein p53, or an equivalent protein, in response to the detection of DNA damage." [GOC

9215 Pathogen[ Q2Q067] interacts with 2 human partners:{075832;Q00987}

9216 Pathogen[ P0C214] interacts with 2 human partners:{Q00987;075832}

9217 Pathogen[ P03346] interacts with 3 human partners:{Q00987;075832;095863}

9218 Pathogen[ Q85601] interacts with 2 human partners:{075832;Q00987}

9219 Pathogen[ P14079] interacts with 2 human partners:{075832;Q00987}

9220 Pathogen[ P03383] interacts with 1 human partners:{075832}

9221 Pathogen[ P03410] interacts with 2 human partners:{Q00987;075832}

9222 Pathogen[ P14075] interacts with 1 human partners:{075832}

9223 Pathogen[ P0C206] interacts with 2 human partners:{075832;Q00987}

9224 [Cluster 1482]GO:0033206+P biological\_process [name] cytokinesis after meiosis [def] "A cell cycle process that results in the division of the cytoplasm of a cell after meiosis, resulting in the separation of the original cell into two daughter cells." [GOC

9225 Pathogen[ P14079] interacts with 1 human partners:{P61158}

9226 [Cluster 1483]GO:0006295+P biological\_process [name] nucleotide-excision repair, DNA incision, 3'-to lesion [def] "The endonucleolytic cleavage of the damaged strand of DNA 3' to the site of damage. The incision occurs at the junction of single-stranded DNA and double-stranded DNA that is formed when the DNA duplex is unwound. The incision precedes the incision formed 5' to the site of damage." [GOC

9227 Pathogen[ Q2Q067] interacts with 2 human partners:{Q92889;P28715}

9228 Pathogen[ P0C214] interacts with 2 human partners:{Q92889;P28715}

9229 Pathogen[ P03346] interacts with 3 human partners:{P28715;P07992;Q92889}

9230 Pathogen[ Q85601] interacts with 2 human partners:{Q92889;P28715}

9231 Pathogen[ P14079] interacts with 3 human partners:{P28715;Q92889;P07992}

9232 Pathogen[ P03410] interacts with 3 human partners:{P07992;Q92889;P28715}

9233 Pathogen[ P0C206] interacts with 3 human partners:{P28715;P07992;Q92889}

9234 Pathogen[ P03363] interacts with 1 human partners:{Q92889}

9235 [Cluster 1484]GO:0060042+P biological\_process [name] retina morphogenesis in camera-type eye [def] "The process in which the anatomical structure of the retina is generated and organized." [GOC

9236 Pathogen[ Q2Q067] interacts with 2 human partners:{Q8NFIJ8;P58304}

9237 Pathogen[ P0C214] interacts with 1 human partners:{Q8NFIJ8}

9238 Pathogen[ P03346] interacts with 3 human partners:{Q7RTS3;P58304;Q8NFIJ8}

9239 Pathogen[ Q85601] interacts with 2 human partners:{Q8NFIJ8;P58304}

9240 Pathogen[ P14079] interacts with 3 human partners:{P58304;P56715;Q8NFIJ8}

9241 Pathogen[ P03410] interacts with 2 human partners:{Q8NFIJ8;P56715}

9242 Pathogen[ P0C206] interacts with 3 human partners:{P56715;Q8NFIJ8;P58304}

9243 Pathogen[ P03363] interacts with 4 human partners:{P56715;Q7RTS3;P58304;Q8NFIJ8}

9244 [Cluster 1485]GO:0002642+P biological\_process [name] positive regulation of immunoglobulin biosynthetic process [def] "Any process that activates or increases the frequency, rate, or extent of immunoglobulin biosynthesis." [GOC

9245 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8WU39}

9246 Pathogen[ P0C214] interacts with 1 human partners:{Q8WU39}

9247 Pathogen[ P03346] interacts with 1 human partners:{Q8WU39}

9248 Pathogen[ P14079] interacts with 1 human partners:{Q8WU39}

9249 Pathogen[ P03383] interacts with 1 human partners:{Q8WU39}

9250 Pathogen[ P03410] interacts with 1 human partners:{Q8WU39}

9251 Pathogen[ P14075] interacts with 1 human partners:{Q8WU39}

9252 Pathogen[ P0C206] interacts with 1 human partners:{Q8WU39}

9253 Pathogen[ P03363] interacts with 1 human partners:{Q8WU39}

9254 [Cluster 1486]GO:0018406+P biological\_process [name] protein C-linked glycosylation via 2'-alpha-mannosyl-L-tryptophan [def] "The glycosylation of a peptidyl-tryptophan residue by the transfer of alpha-mannopyranose from dolichyl-activated mannose to the indole ring." [PMID

9255 Pathogen[ P14079] interacts with 1 human partners:{Q9P2X0}

9256 Pathogen[ P03410] interacts with 1 human partners:{Q9P2X0}

9257 [Cluster 1487]GO:0021997+P biological\_process [name] neural plate axis specification [def] "The pattern specification process in which the axes of the nervous system are established." [GO\_REF

9258 Pathogen[ P14079] interacts with 1 human partners:{Q4AC94}

9259 Pathogen[ P03410] interacts with 1 human partners:{Q4AC94}

9260 [Cluster 1488]GO:0042219+P biological\_process [name] cellular modified amino acid catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of compounds derived from amino acids, organic acids containing one or more amino substituents." [GOC

9261 Pathogen[ P14079] interacts with 1 human partners:{Q9BVM4}

9262 Pathogen[ P03410] interacts with 1 human partners:{Q9BVM4}

9263 Pathogen[ P14075] interacts with 1 human partners:{Q9BVM4}

9264 Pathogen[ P0C206] interacts with 1 human partners:{Q9BVM4}

9265 [Cluster 1489]GO:0051661+P biological\_process [name] maintenance of centrosome location [def] "Any process in which a centrosome is maintained in a specific location within a cell and prevented from moving elsewhere." [GOC

9266 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8IZT6}

9267 Pathogen[ P0C214] interacts with 1 human partners:{Q8IZT6}

9268 Pathogen[ P03346] interacts with 2 human partners:{Q9NVR7;Q8IZT6}

9269 Pathogen[ Q85601] interacts with 1 human partners:{Q8IZT6}

9270 Pathogen[ P14079] interacts with 2 human partners:{Q9NVR7;Q8IZT6}

9271 Pathogen[ P03410] interacts with 2 human partners:{Q8IZT6;Q9NVR7}

9272 Pathogen[ P0C206] interacts with 2 human partners:{Q9NVR7;Q8IZT6}

9273 Pathogen[ P03363] interacts with 2 human partners:{Q9NVR7;Q8IZT6}

9274 [Cluster 1490]GO:0060980+P biological\_process [name] cell migration involved in coronary vasculogenesis [def] "The orderly movement of a cell from one site to another that will contribute to the differentiation of an endothelial cell that will form the blood vessels of the heart." [GOC

9275 Pathogen[ P03346] interacts with 1 human partners:{Q99593}

9276 [Cluster 1491]GO:0034213+P biological\_process [name] quinolinate catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of quinolinate, the anion of quinolinic acid, also known as 2,3-pyridinedicarboxylic acid." [GOC

9277 Pathogen[ P0C214] interacts with 1 human partners:{Q15274}

9278 Pathogen[ P14079] interacts with 1 human partners:{Q15274}

9279 Pathogen[ P03410] interacts with 1 human partners:{Q15274}

9280 Pathogen[ P0C206] interacts with 1 human partners:{Q15274}

9281 [Cluster 1492]GO:0007341+P biological\_process [name] penetration of zona pellucida [def] "The infiltration by sperm of the zona pellucida to reach the oocyte. The process involves digestive enzymes from a modified lysosome called the acrosome, situated at the head of the sperm." [GOC

9282 Pathogen[ Q2Q067] interacts with 1 human partners:{P49901}

9283 Pathogen[ P0C214] interacts with 1 human partners:{P49901}

9284 Pathogen[ P03346] interacts with 1 human partners:{P49901}

9285 Pathogen[ P14079] interacts with 1 human partners:{P49901}

9286 Pathogen[ P03383] interacts with 1 human partners:{P49901}

9287 Pathogen[ P03410] interacts with 1 human partners:{P49901}

9288 Pathogen[ P14075] interacts with 1 human partners:{P49901}

9289 Pathogen[ P0C206] interacts with 1 human partners:{P49901}

9290 Pathogen[ P03363] interacts with 1 human partners:{P49901}

9291 [Cluster 1493]GO:0043624+P biological\_process [name] cellular protein complex disassembly [def] "The disaggregation of a protein complex into its constituent components, occurring at the level of an individual cell. Protein complexes may have other associated non-protein prosthetic groups, such as nucleic acids, metal ions or carbohydrate groups." [GOC]

9292 Pathogen[ P14079] interacts with 1 human partners:{P24588}

9293 Pathogen[ P03410] interacts with 1 human partners:{P24588}

9294 [Cluster 1494]GO:0006942+P biological\_process [name] regulation of striated muscle contraction [def] "Any process that modulates the frequency, rate or extent of striated muscle contraction." [GOC]

9295 Pathogen[ P03346] interacts with 1 human partners:{P10916}

9296 Pathogen[ P14079] interacts with 2 human partners:{P10916;P19237}

9297 Pathogen[ P03410] interacts with 1 human partners:{P10916}

9298 Pathogen[ P03363] interacts with 1 human partners:{P10916}

9299 [Cluster 1495]GO:0031081+P biological\_process [name] nuclear pore distribution [def] "Any process that establishes the spatial arrangement of nuclear pores within the nuclear envelope." [GOC]

9300 Pathogen[ P03346] interacts with 1 human partners:{Q9BTX1}

9301 Pathogen[ P14079] interacts with 1 human partners:{Q9BTX1}

9302 Pathogen[ P03383] interacts with 1 human partners:{Q9BTX1}

9303 Pathogen[ P03410] interacts with 1 human partners:{Q9BTX1}

9304 Pathogen[ P14075] interacts with 1 human partners:{Q9BTX1}

9305 Pathogen[ P0C206] interacts with 1 human partners:{Q9BTX1}

9306 Pathogen[ P03363] interacts with 1 human partners:{Q9BTX1}

9307 [Cluster 1496]GO:0010595+P biological\_process [name] positive regulation of endothelial cell migration [def] "Any process that increases the rate, frequency, or extent of the orderly movement of an endothelial cell into the extracellular matrix to form an endothelium." [GOC]

9308 Pathogen[ Q2Q067] interacts with 1 human partners:{O14786}

9309 Pathogen[ P0C214] interacts with 2 human partners:{O14786;P18054}

9310 Pathogen[ P03346] interacts with 2 human partners:{P18054;O14786}

9311 Pathogen[ Q85601] interacts with 1 human partners:{O14786}

9312 Pathogen[ P03410] interacts with 1 human partners:{O14786}

9313 Pathogen[ P0C206] interacts with 1 human partners:{O14786}

9314 Pathogen[ P03363] interacts with 1 human partners:{O14786}

9315 [Cluster 1497]GO:0030214+P biological\_process [name] hyaluronan catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of hyaluronan, the naturally occurring anionic form of hyaluronic acid, any member of a group of glycosaminoglycans, the repeat units of which consist of beta-1,4 linked D-glucuronyl-beta-(1,3)-N-acetyl-D-glucosamine." [GOC]

9316 Pathogen[ P0C214] interacts with 1 human partners:{O75330}

9317 Pathogen[ P03346] interacts with 1 human partners:{O75330}

9318 Pathogen[ Q85601] interacts with 1 human partners:{O75330}

9319 Pathogen[ P14079] interacts with 1 human partners:{O75330}

9320 Pathogen[ P03410] interacts with 1 human partners:{O75330}

9321 Pathogen[ P14075] interacts with 1 human partners:{O75330}

9322 Pathogen[ P0C206] interacts with 1 human partners:{O75330}

9323 [Cluster 1498]GO:0032715+P biological\_process [name] negative regulation of interleukin-6 production [def] "Any process that stops, prevents, or reduces the frequency, rate, or extent of interleukin-6 production." [GOC]

9324 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BQE4}

9325 Pathogen[ P0C214] interacts with 1 human partners:{Q9BQE4}

9326 Pathogen[ P03346] interacts with 1 human partners:{Q9Y5W3}

9327 Pathogen[ Q85601] interacts with 1 human partners:{Q9BQE4}

9328 Pathogen[ P14079] interacts with 2 human partners:{Q9BQE4;Q9Y5W3}

9329 Pathogen[ P03383] interacts with 1 human partners:{Q9BQE4}

9330 Pathogen[ P03410] interacts with 1 human partners:{Q9BQE4}

9331 Pathogen[ P14075] interacts with 1 human partners:{Q9BQE4}

9332 Pathogen[ P0C206] interacts with 1 human partners:{Q9BQE4}

9333 [Cluster 1499]GO:0002528+P biological\_process [name] regulation of vascular permeability involved in acute inflammatory response [def] "Any process that modulates the extent to which blood vessels can be pervaded by fluid contributing to an acute inflammatory response." [GOC]

9334 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NSA3}

9335 Pathogen[ P0C214] interacts with 1 human partners:{Q9NSA3}

9336 Pathogen[ P03346] interacts with 1 human partners:{Q9NSA3}

9337 Pathogen[ Q85601] interacts with 1 human partners:{Q9NSA3}

9338 Pathogen[ P03383] interacts with 1 human partners:{Q9NSA3}

9339 Pathogen[ P03410] interacts with 1 human partners:{Q9NSA3}

9340 Pathogen[ P14075] interacts with 1 human partners:{Q9NSA3}

9341 Pathogen[ P0C206] interacts with 1 human partners:{Q9NSA3}

9342 Pathogen[ P03363] interacts with 1 human partners:{Q9NSA3}

9343 [Cluster 1500]GO:0035418+P biological\_process [name] protein localization to synapse [def] "Any process in which a protein is transported to, and/or maintained at the synapse, the junction between a nerve fiber of one neuron and another neuron or muscle fiber or glial cell." [GOC

9344 Pathogen[ Q2Q067] interacts with 1 human partners:{P78352}

9345 Pathogen[ P0C214] interacts with 1 human partners:{P78352}

9346 Pathogen[ P03346] interacts with 1 human partners:{P78352}

9347 Pathogen[ Q85601] interacts with 1 human partners:{P78352}

9348 Pathogen[ P03383] interacts with 1 human partners:{P78352}

9349 Pathogen[ P03410] interacts with 1 human partners:{P78352}

9350 Pathogen[ P14075] interacts with 1 human partners:{P78352}

9351 Pathogen[ P0C206] interacts with 1 human partners:{P78352}

9352 Pathogen[ P03363] interacts with 2 human partners:{P78352;Q96JB8}

9353 [Cluster 1501]GO:0010387+P biological\_process [name] signalosome assembly [def] "The aggregation, arrangement and bonding together of a set of components to form a signalosome." [PMID

9354 Pathogen[ Q2Q067] interacts with 1 human partners:{A2RU30}

9355 Pathogen[ P0C214] interacts with 1 human partners:{A2RU30}

9356 Pathogen[ P03346] interacts with 1 human partners:{A2RU30}

9357 Pathogen[ P14079] interacts with 1 human partners:{A2RU30}

9358 Pathogen[ P03383] interacts with 1 human partners:{A2RU30}

9359 Pathogen[ P03410] interacts with 1 human partners:{A2RU30}

9360 Pathogen[ P14075] interacts with 1 human partners:{A2RU30}

9361 Pathogen[ P0C206] interacts with 1 human partners:{A2RU30}

9362 Pathogen[ P03363] interacts with 1 human partners:{A2RU30}

9363 [Cluster 1502]GO:0019369+P biological\_process [name] arachidonic acid metabolic process [def] "The chemical reactions and pathways involving arachidonic acid, a straight chain fatty acid with 20 carbon atoms and four double bonds per molecule. Arachidonic acid is the all-Z-(5,8,11,14)-isomer." [ISBN

9364 Pathogen[ Q2Q067] interacts with 1 human partners:{P09917}

9365 Pathogen[ P0C214] interacts with 1 human partners:{P09917}

9366 Pathogen[ P03346] interacts with 1 human partners:{P09917}

9367 Pathogen[ Q85601] interacts with 1 human partners:{P09917}

9368 Pathogen[ P14079] interacts with 1 human partners:{P09917}

9369 Pathogen[ P03410] interacts with 1 human partners:{P09917}

9370 Pathogen[ P0C206] interacts with 1 human partners:{P09917}

9371 [Cluster 1503]GO:0071722+P biological\_process [name] detoxification of arsenic-containing substance [def] "Any process that reduces or removes the toxicity of compounds containing arsenic, including arsenates, arsenites, and arsenides. These include transport of such compounds away from sensitive areas and to compartments or complexes whose purpose is sequestration of arsenic or arsenic-containing compounds." [GOC

9372 Pathogen[ P0C214] interacts with 1 human partners:{O43681}

9373 Pathogen[ Q85601] interacts with 1 human partners:{O43681}

9374 Pathogen[ P14079] interacts with 1 human partners:{O43681}

9375 Pathogen[ P03410] interacts with 1 human partners:{O43681}

9376 Pathogen[ P0C206] interacts with 1 human partners:{O43681}

9377 [Cluster 1504]GO:0009168+P biological\_process [name] purine ribonucleoside monophosphate biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of purine ribonucleoside monophosphate, a compound consisting of a purine base linked to a ribose sugar esterified with phosphate on the sugar." [GOC

9378 Pathogen[ P0C214] interacts with 2 human partners:{P31939;P30566}

9379 Pathogen[ P14079] interacts with 4 human partners:{P22234;P31939;P49915;O15067}

9380 Pathogen[ P03410] interacts with 5 human partners:{P49915;P22234;P30566;O15067;P31939}

9381 Pathogen[ P0C206] interacts with 1 human partners:{P31939}

9382 [Cluster 1505]GO:0030252+P biological\_process [name] growth hormone secretion [def] "The regulated release of growth hormone from secretory granules into the blood." [GOC

9383 Pathogen[ P0C214] interacts with 1 human partners:{Q00536}

9384 Pathogen[ P03346] interacts with 1 human partners:{Q00536}

9385 Pathogen[ Q85601] interacts with 1 human partners:{Q00536}

9386 Pathogen[ P03383] interacts with 1 human partners:{Q00536}

9387 Pathogen[ P0C206] interacts with 1 human partners:{Q00536}

9388 Pathogen[ P03363] interacts with 1 human partners:{Q00536}

9389 [Cluster 1506]GO:0060079+P biological\_process [name] regulation of excitatory postsynaptic membrane potential [def] "Any process that modulates the establishment or extent of the excitatory postsynaptic potential (EPSP) which is a temporary increase in postsynaptic potential due to the flow of positively charged ions into the postsynaptic cell. The flow of ions that causes an EPSP is an excitatory postsynaptic current (EPSC) and makes it easier for the neuron to fire an action potential." [GOC

9390 Pathogen[ Q2Q067] interacts with 1 human partners:{Q08209}

9391 Pathogen[ P0C214] interacts with 1 human partners:{Q08209}

9392 Pathogen[ P03346] interacts with 1 human partners:{Q08209}

9393 Pathogen[ Q85601] interacts with 1 human partners:{Q08209}

9394 Pathogen[ P14079] interacts with 2 human partners:{O43612;Q08209}



9395 Pathogen[ P03410] interacts with 2 human partners:{043612;Q08209}

9396 Pathogen[ P0C206] interacts with 1 human partners:{Q08209}

9397 [Cluster 1507]GO:0072193+P biological\_process [name] ureter smooth muscle cell differentiation [def] "The process in which a relatively unspecialized cell acquires specialized features of a smooth muscle cell in the ureter." [GOC

9398 Pathogen[ Q2Q067] interacts with 1 human partners:{Q63HK5}

9399 Pathogen[ P0C214] interacts with 1 human partners:{Q63HK5}

9400 Pathogen[ P03346] interacts with 2 human partners:{Q63HK5;Q15475}

9401 Pathogen[ Q85601] interacts with 1 human partners:{Q63HK5}

9402 Pathogen[ P14079] interacts with 1 human partners:{Q63HK5}

9403 Pathogen[ P03410] interacts with 1 human partners:{Q63HK5}

9404 Pathogen[ P0C206] interacts with 1 human partners:{Q63HK5}

9405 Pathogen[ P03363] interacts with 1 human partners:{Q63HK5}

9406 [Cluster 1508]GO:0006851+P biological\_process [name] mitochondrial calcium ion transport [def] "The directed movement of calcium ions (Ca<sup>2+</sup>) into, out of or within a mitochondrion." [GOC

9407 Pathogen[ P03346] interacts with 1 human partners:{Q7RTS1}

9408 Pathogen[ P14079] interacts with 2 human partners:{Q8NE86;Q7RTS1}

9409 Pathogen[ P03410] interacts with 2 human partners:{Q7RTS1;Q8NE86}

9410 Pathogen[ P0C206] interacts with 1 human partners:{Q8NE86}

9411 Pathogen[ P03363] interacts with 1 human partners:{Q7RTS1}

9412 [Cluster 1509]GO:0009438+P biological\_process [name] methylglyoxal metabolic process [def] "The chemical reactions and pathways involving methylglyoxal, CH<sub>3</sub>-CO-CHO, the aldehyde of pyruvic acid." [CHEBI

9413 Pathogen[ P14079] interacts with 1 human partners:{Q04760}

9414 Pathogen[ P03410] interacts with 1 human partners:{Q04760}

9415 Pathogen[ P0C206] interacts with 1 human partners:{Q04760}

9416 [Cluster 1510]GO:0050902+P biological\_process [name] leukocyte adhesive activation [def] "The activation of loosely bound or rolling leukocytes by signals displayed on blood vessel endothelial cells, which is typically the second step in cellular extravasation." [ISBN

9417 Pathogen[ P14079] interacts with 1 human partners:{Q14242}

9418 Pathogen[ P03410] interacts with 1 human partners:{Q14242}

9419 [Cluster 1511]GO:0003100+P biological\_process [name] regulation of systemic arterial blood pressure by endothelin [def] "The process in which endothelin modulates the force with which blood passes through the circulatory system. Endothelin is a hormone that is released by the endothelium, and it is a vasoconstrictor." [GOC

9420 Pathogen[ Q2Q067] interacts with 1 human partners:{P29474}

9421 Pathogen[ P0C214] interacts with 1 human partners:{P29474}

9422 Pathogen[ P03346] interacts with 1 human partners:{P29474}

9423 Pathogen[ Q85601] interacts with 1 human partners:{P29474}

9424 Pathogen[ P03383] interacts with 1 human partners:{P29474}

9425 Pathogen[ P03410] interacts with 1 human partners:{P29474}

9426 Pathogen[ P14079] interacts with 1 human partners:{P29474}

9427 Pathogen[ P0C206] interacts with 1 human partners:{P29474}

9428 Pathogen[ P03363] interacts with 1 human partners:{P29474}

9429 [Cluster 1512]GO:0045918+P biological\_process [name] negative regulation of cytolysis [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of cytolysis." [GOC

9430 Pathogen[ P14079] interacts with 1 human partners:{P04141}

9431 Pathogen[ P03410] interacts with 1 human partners:{P04141}

9432 [Cluster 1513]GO:0032269+P biological\_process [name] negative regulation of cellular protein metabolic process [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the chemical reactions and pathways involving a protein, occurring at the level of an individual cell." [GOC

9433 Pathogen[ Q2Q067] interacts with 1 human partners:{P19838}

9434 Pathogen[ P0C214] interacts with 1 human partners:{P19838}

9435 Pathogen[ P03346] interacts with 1 human partners:{P19838}

9436 Pathogen[ Q85601] interacts with 1 human partners:{P19838}

9437 Pathogen[ P03383] interacts with 1 human partners:{P19838}

9438 Pathogen[ P03410] interacts with 1 human partners:{P19838}

9439 Pathogen[ P14079] interacts with 1 human partners:{P19838}

9440 Pathogen[ P0C206] interacts with 1 human partners:{P19838}

9441 Pathogen[ P03363] interacts with 1 human partners:{P19838}

9442 [Cluster 1514]GO:2000738+P biological\_process [name] positive regulation of stem cell differentiation [def] "Any process that activates or increases the frequency, rate or extent of stem cell differentiation." [GOC

9443 Pathogen[ Q2Q067] interacts with 2 human partners:{P17483;Q8TDD2}

9444 Pathogen[ P0C214] interacts with 1 human partners:{Q8TDD2}

9445 Pathogen[ P03346] interacts with 2 human partners:{P17483;Q8TDD2}

9446 Pathogen[ Q85601] interacts with 1 human partners:{Q8TDD2}

9447 Pathogen[ P14079] interacts with 1 human partners:{Q8TDD2}

9448 Pathogen[ P03410] interacts with 1 human partners:{Q8TDD2}

9449 Pathogen[ P0C206] interacts with 2 human partners:{P17483;Q8TDD2}

9450 Pathogen[ P03363] interacts with 2 human partners:{Q8TDD2;P17483}

9451 [Cluster 1515]GO:0006081+P biological\_process [name] cellular aldehyde metabolic

process [def] "The chemical reactions and pathways involving aldehydes, any organic compound with the formula R-CH=O, as carried out by individual cells." [GOC

9452 Pathogen[ Q2Q067] interacts with 1 human partners:{P49419}

9453 Pathogen[ P0C214] interacts with 1 human partners:{P49419}

9454 Pathogen[ P03346] interacts with 1 human partners:{P49419}

9455 Pathogen[ Q85601] interacts with 1 human partners:{P49419}

9456 Pathogen[ P03383] interacts with 1 human partners:{P49419}

9457 Pathogen[ P03410] interacts with 1 human partners:{P49419}

9458 Pathogen[ P14075] interacts with 1 human partners:{P49419}

9459 Pathogen[ P0C206] interacts with 1 human partners:{P49419}

9460 Pathogen[ P03363] interacts with 1 human partners:{P49419}

9461 [Cluster 1516]GO:0045083+P biological\_process [name] negative regulation of interleukin-12 biosynthetic process [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the chemical reactions and pathways resulting in the formation of interleukin-12." [GOC

9462 Pathogen[ Q2Q067] interacts with 1 human partners:{P19838}

9463 Pathogen[ P0C214] interacts with 1 human partners:{P19838}

9464 Pathogen[ P03346] interacts with 1 human partners:{P19838}

9465 Pathogen[ Q85601] interacts with 1 human partners:{P19838}

9466 Pathogen[ P03383] interacts with 1 human partners:{P19838}

9467 Pathogen[ P03410] interacts with 1 human partners:{P19838}

9468 Pathogen[ P14075] interacts with 1 human partners:{P19838}

9469 Pathogen[ P0C206] interacts with 1 human partners:{P19838}

9470 Pathogen[ P03363] interacts with 1 human partners:{P19838}

9471 [Cluster 1517]GO:0008039+P biological\_process [name] synaptic target recognition [def] "The process in which a neuronal cell in a multicellular organism interprets signals produced by potential target cells, with which it may form synapses." [GOC

9472 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96FJ2}

9473 Pathogen[ P0C214] interacts with 1 human partners:{Q96FJ2}

9474 Pathogen[ P03346] interacts with 1 human partners:{Q96FJ2}

9475 Pathogen[ P14079] interacts with 1 human partners:{Q96FJ2}

9476 Pathogen[ P03383] interacts with 1 human partners:{Q96FJ2}

9477 Pathogen[ P14075] interacts with 1 human partners:{Q96FJ2}

9478 Pathogen[ P03363] interacts with 1 human partners:{Q96FJ2}

9479 [Cluster 1518]GO:0008356+P biological\_process [name] asymmetric cell division [def] "The asymmetric division of cells to produce two daughter cells with different developmental potentials. It is of fundamental significance for the generation of cell diversity." [PMID

9480 Pathogen[ P03346] interacts with 1 human partners:{Q8TEW0}

9481 Pathogen[ P14079] interacts with 2 human partners:{Q8TEW0;P61158}

9482 Pathogen[ P03410] interacts with 1 human partners:{Q8TEW0}

9483 Pathogen[ P0C206] interacts with 1 human partners:{Q8TEW0}

9484 [Cluster 1519]GO:0051451+P biological\_process [name] myoblast migration [def] "The orderly movement of a myoblast from one site to another, often during the development of a multicellular organism. A myoblast is a cell type that, by fusion with other myoblasts, gives rise to the myotubes that eventually develop into skeletal muscle fibers." [CL

9485 Pathogen[ P03346] interacts with 2 human partners:{Q9UIU6;Q15475}

9486 [Cluster 1520]GO:2001013+P biological\_process [name] epithelial cell proliferation involve in renal tubule morphogenesis [def] "Any epithelial cell proliferation that is involved in renal tubule morphogenesis." [GOC

9487 Pathogen[ P14079] interacts with 1 human partners:{Q06413}

9488 [Cluster 1521]GO:0042036+P biological\_process [name] negative regulation of cytokine biosynthetic process [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the chemical reactions and pathways resulting in the formation of cytokines." [GOC

9489 Pathogen[ P0C214] interacts with 1 human partners:{P31483}

9490 Pathogen[ P03346] interacts with 1 human partners:{P31483}

9491 Pathogen[ P14079] interacts with 1 human partners:{P31483}

9492 Pathogen[ P03410] interacts with 1 human partners:{P31483}

9493 Pathogen[ P0C206] interacts with 1 human partners:{P31483}

9494 Pathogen[ P03363] interacts with 1 human partners:{P31483}

9495 [Cluster 1522]GO:0060563+P biological\_process [name] neuroepithelial cell differentiation [def] "The process in which epiblast cells acquire specialized features of neuroepithelial cells." [GOC

9496 Pathogen[ P03346] interacts with 1 human partners:{Q06945}

9497 [Cluster 1523]GO:1900017+P

9498 Pathogen[ P03346] interacts with 1 human partners:{Q8N9B4}

9499 [Cluster 1524]GO:0051150+P biological\_process [name] regulation of smooth muscle cell differentiation [def] "Any process that modulates the frequency, rate or extent of smooth muscle cell differentiation." [CL

9500 Pathogen[ Q2Q067] interacts with 1 human partners:{P11831}

9501 Pathogen[ P0C214] interacts with 1 human partners:{P11831}

9502 Pathogen[ P03346] interacts with 1 human partners:{P11831}

9503 Pathogen[ Q85601] interacts with 1 human partners:{P11831}

9504 Pathogen[ P03383] interacts with 1 human partners:{P11831}

9505 Pathogen[ P03410] interacts with 1 human partners:{P11831}

9506 Pathogen[ P14075] interacts with 1 human partners:{P11831}

9507 Pathogen[ P0C206] interacts with 1 human partners:{P11831}

9508 Pathogen[ P03363] interacts with 1 human partners:{P11831}

9509 [Cluster 1525]GO:0048643+P biological\_process [name] positive regulation of skeletal muscle tissue development [def] "Any process that activates, maintains or increases the rate of skeletal muscle tissue development." [GOC

9510 Pathogen[ P03346] interacts with 1 human partners:{075604}

9511 Pathogen[ P14079] interacts with 1 human partners:{Q06413}

9512 Pathogen[ P0C206] interacts with 1 human partners:{075604}

9513 Pathogen[ P03363] interacts with 1 human partners:{075604}

9514 [Cluster 1526]GO:0006713+P biological\_process [name] glucocorticoid catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of glucocorticoids, hormonal C21 corticosteroids synthesized from cholesterol." [ISBN

9515 Pathogen[ Q2Q067] interacts with 1 human partners:{Q04917}

9516 Pathogen[ P0C214] interacts with 1 human partners:{Q04917}

9517 Pathogen[ P03346] interacts with 1 human partners:{Q04917}

9518 Pathogen[ Q85601] interacts with 1 human partners:{Q04917}

9519 Pathogen[ P14079] interacts with 1 human partners:{Q04917}

9520 Pathogen[ P03410] interacts with 1 human partners:{Q04917}

9521 Pathogen[ P0C206] interacts with 1 human partners:{Q04917}

9522 Pathogen[ P03363] interacts with 1 human partners:{Q04917}

9523 [Cluster 1527]GO:2001045+P biological\_process [name] negative regulation of integrin-mediated signaling pathway [def] "Any process that stops, prevents or reduces the frequency, rate or extent of integrin-mediated signaling pathway." [GOC

9524 Pathogen[ P14079] interacts with 1 human partners:{Q8IZ21}

9525 Pathogen[ P03410] interacts with 1 human partners:{Q8IZ21}

9526 [Cluster 1528]GO:0090331+P biological\_process [name] negative regulation of platelet aggregation [def] "Any process that decreases the rate, frequency or extent of platelet aggregation. Platelet aggregation is the adhesion of one platelet to one or more other platelets via adhesion molecules." [GOC

9527 Pathogen[ P0C214] interacts with 1 human partners:{P07093}

9528 Pathogen[ Q85601] interacts with 1 human partners:{P07093}

9529 [Cluster 1529]GO:0034198+P biological\_process [name] cellular response to amino acid starvation [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of deprivation of amino acids." [GOC

9530 Pathogen[ P03346] interacts with 1 human partners:{P51397}

9531 Pathogen[ P14079] interacts with 1 human partners:{P51397}

9532 Pathogen[ P03383] interacts with 1 human partners:{P51397}

9533 Pathogen[ P03410] interacts with 1 human partners:{P51397}

9534 Pathogen[ P14075] interacts with 1 human partners:{P51397}

9535 Pathogen[ P0C206] interacts with 1 human partners:{P51397}

9536 [Cluster 1530]GO:0039020+P biological\_process [name] pronephric nephron tubule development [def] "The process whose specific outcome is the progression of a pronephric nephron tubule over time, from its formation to the mature structure. The pronephric nephron tubule is an epithelial tube that is part of the pronephric nephron and connects the filtration unit (glomerulus or glomus) of the pronephros to the pronephric duct." [GOC

9537 Pathogen[ Q2Q067] interacts with 1 human partners:{P35680}

9538 Pathogen[ P03346] interacts with 1 human partners:{P35680}

9539 Pathogen[ Q85601] interacts with 1 human partners:{P35680}

9540 Pathogen[ P14079] interacts with 1 human partners:{P35680}

9541 Pathogen[ P03410] interacts with 1 human partners:{P35680}

9542 Pathogen[ P0C206] interacts with 1 human partners:{P35680}

9543 [Cluster 1531]GO:0031117+P biological\_process [name] positive regulation of microtubule depolymerization [def] "Any process that activates or increases the frequency, rate or extent of microtubule depolymerization." [GOC

9544 Pathogen[ P03346] interacts with 1 human partners:{Q93045}

9545 Pathogen[ Q85601] interacts with 1 human partners:{Q9BVA0}

9546 Pathogen[ P14079] interacts with 2 human partners:{Q93045;Q9BVA0}

9547 Pathogen[ P03410] interacts with 2 human partners:{Q93045;Q9BVA0}

9548 Pathogen[ P0C206] interacts with 2 human partners:{Q9BVA0;Q93045}

9549 Pathogen[ P03363] interacts with 1 human partners:{Q93045}

9550 [Cluster 1532]GO:0046108+P biological\_process [name] uridine metabolic process [def] "The chemical reactions and pathways involving uridine, uracil riboside, a ribonucleoside very widely distributed but occurring almost entirely as phosphoric esters in ribonucleotides and ribonucleic acids." [GOC

9551 Pathogen[ P0C214] interacts with 2 human partners:{095045;Q16831}

9552 Pathogen[ Q85601] interacts with 1 human partners:{095045}

9553 Pathogen[ P14079] interacts with 2 human partners:{Q16831;095045}

9554 Pathogen[ P03410] interacts with 2 human partners:{095045;Q16831}

9555 Pathogen[ P14075] interacts with 1 human partners:{095045}

9556 Pathogen[ P0C206] interacts with 2 human partners:{Q16831;095045}

9557 [Cluster 1533]GO:0018206+P biological\_process [name] peptidyl-methionine modification [def] "The modification of peptidyl-methionine." [GOC

9558 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9HBH1}

9559 Pathogen[ POC214] interacts with 1 human partners:{Q9HBH1}

9560 Pathogen[ P03346] interacts with 1 human partners:{Q9HBH1}

9561 Pathogen[ Q85601] interacts with 1 human partners:{Q9HBH1}

9562 Pathogen[ P14079] interacts with 1 human partners:{Q9HBH1}

9563 Pathogen[ P03383] interacts with 1 human partners:{Q9HBH1}

9564 Pathogen[ P03410] interacts with 1 human partners:{Q9HBH1}

9565 Pathogen[ P14075] interacts with 1 human partners:{Q9HBH1}

9566 Pathogen[ POC206] interacts with 1 human partners:{Q9HBH1}

9567 [Cluster 1534]GO:0016080+P biological\_process [name] synaptic vesicle targeting  
[def] "The process in which synaptic vesicles are directed to specific destination membranes, mediated by molecules at the vesicle membrane and target membrane surfaces."  
[GOC

9568 Pathogen[ Q2Q067] interacts with 1 human partners:{Q14160}

9569 Pathogen[ POC214] interacts with 1 human partners:{Q14160}

9570 Pathogen[ P03346] interacts with 1 human partners:{Q14160}

9571 Pathogen[ Q85601] interacts with 1 human partners:{Q14160}

9572 Pathogen[ P03383] interacts with 1 human partners:{Q14160}

9573 Pathogen[ P03410] interacts with 1 human partners:{Q14160}

9574 Pathogen[ P14075] interacts with 1 human partners:{Q14160}

9575 Pathogen[ POC206] interacts with 1 human partners:{Q14160}

9576 Pathogen[ P03363] interacts with 2 human partners:{Q14160;Q99719}

9577 [Cluster 1535]GO:0050884+P biological\_process [name] neuromuscular process controlling posture [def] "Any process in which an organism voluntarily modulates its posture, the alignment of its anatomical parts." [GOC

9578 Pathogen[ Q2Q067] interacts with 1 human partners:{P30793}

9579 Pathogen[ POC214] interacts with 1 human partners:{P30793}

9580 Pathogen[ Q85601] interacts with 1 human partners:{P30793}

9581 Pathogen[ P14079] interacts with 1 human partners:{P30793}

9582 Pathogen[ P03410] interacts with 2 human partners:{P30793;Q9UBY8}

9583 Pathogen[ P14075] interacts with 1 human partners:{P30793}

9584 Pathogen[ POC206] interacts with 1 human partners:{P30793}

9585 [Cluster 1536]GO:0060381+P biological\_process [name] positive regulation of single-stranded telomeric DNA binding [def] "Any process that increases the frequency, rate or extent of single-stranded telomeric DNA binding." [GOC

9586 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96AP0}

9587 Pathogen[ P03346] interacts with 1 human partners:{Q96AP0}

9588 Pathogen[ P14079] interacts with 1 human partners:{Q96AP0}

9589 Pathogen[ P03410] interacts with 1 human partners:{Q96AP0}

9590 Pathogen[ P14075] interacts with 1 human partners:{Q96AP0}

9591 Pathogen[ POC206] interacts with 1 human partners:{Q96AP0}

9592 Pathogen[ P03363] interacts with 1 human partners:{Q96AP0}

9593 [Cluster 1537]GO:0046601+P biological\_process [name] positive regulation of centriole replication [def] "Any process that activates or increases the frequency, rate or extent of centriole replication." [GOC

9594 Pathogen[ P03346] interacts with 1 human partners:{O00444}

9595 Pathogen[ POC206] interacts with 1 human partners:{O00444}

9596 [Cluster 1538]GO:0090197+P biological\_process [name] positive regulation of chemokine secretion [def] "Any process that increases the rate, frequency or extent of chemokine secretion, the regulated release of chemokines from a cell or group of cells." [GOC

9597 Pathogen[ P14079] interacts with 1 human partners:{O95760}

9598 Pathogen[ P03410] interacts with 1 human partners:{O95760}

9599 [Cluster 1539]GO:0006071+P biological\_process [name] glycerol metabolic process [def] "The chemical reactions and pathways involving glycerol, 1,2,3-propanetriol, a sweet, hygroscopic, viscous liquid, widely distributed in nature as a constituent of many lipids." [GOC

9600 Pathogen[ Q2Q067] interacts with 1 human partners:{P32189}

9601 Pathogen[ POC214] interacts with 4 human partners:{Q14410;Q14409;P32189;Q9NPB8}

9602 Pathogen[ P03346] interacts with 1 human partners:{P32189}

9603 Pathogen[ Q85601] interacts with 1 human partners:{P32189}

9604 Pathogen[ P14079] interacts with 4 human partners:{Q9NPB8;Q14410;P32189;Q14409}

9605 Pathogen[ P03383] interacts with 1 human partners:{P32189}

9606 Pathogen[ P03410] interacts with 4 human partners:{Q14410;Q9NPB8;Q14409;P32189}

9607 Pathogen[ P14075] interacts with 1 human partners:{P32189}

9608 Pathogen[ POC206] interacts with 2 human partners:{P32189;Q9NPB8}

9609 [Cluster 1540]GO:0042416+P biological\_process [name] dopamine biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of dopamine, a catecholamine neurotransmitter and a metabolic precursor of noradrenaline and adrenaline." [GOC

9610 Pathogen[ Q2Q067] interacts with 1 human partners:{P30793}

9611 Pathogen[ POC214] interacts with 1 human partners:{P30793}

9612 Pathogen[ Q85601] interacts with 1 human partners:{P30793}

9613 Pathogen[ P14079] interacts with 1 human partners:{P30793}

9614 Pathogen[ P03410] interacts with 1 human partners:{P30793}

9615 Pathogen[ P14075] interacts with 1 human partners:{P30793}

9616 Pathogen[ POC206] interacts with 1 human partners:{P30793}

9617 [Cluster 1541]GO:0014883+P biological\_process [name] transition between fast and slow fiber [def] "The process of conversion of fast-contracting muscle fibers to a slower character. This may involve slowing of contractile rate, slow myosin gene induction, increase in oxidative metabolic properties, altered electrophysiology and altered innervation. This process also regulates skeletal muscle adaptation." [GOC  
9618 Pathogen[ Q2Q067] interacts with 1 human partners:{Q08209}  
9619 Pathogen[ P0C214] interacts with 1 human partners:{Q08209}  
9620 Pathogen[ P03346] interacts with 1 human partners:{Q08209}  
9621 Pathogen[ Q85601] interacts with 1 human partners:{Q08209}  
9622 Pathogen[ P14079] interacts with 1 human partners:{Q08209}  
9623 Pathogen[ P03410] interacts with 1 human partners:{Q08209}  
9624 Pathogen[ P0C206] interacts with 1 human partners:{Q08209}  
9625 [Cluster 1542]GO:000302+P biological\_process [name] response to reactive oxygen species [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a reactive oxygen species stimulus. Reactive oxygen species include singlet oxygen, superoxide, and oxygen free radicals." [GOC  
9626 Pathogen[ Q2Q067] interacts with 2 human partners:{Q06830;P12883}  
9627 Pathogen[ P0C214] interacts with 3 human partners:{P05121;Q06830;P12883}  
9628 Pathogen[ P03346] interacts with 1 human partners:{Q06830}  
9629 Pathogen[ Q85601] interacts with 3 human partners:{P05121;P12883;Q06830}  
9630 Pathogen[ P14079] interacts with 1 human partners:{P12883}  
9631 Pathogen[ P03383] interacts with 1 human partners:{P12883}  
9632 Pathogen[ P03410] interacts with 3 human partners:{P05121;P12883;Q06830}  
9633 Pathogen[ P0C206] interacts with 3 human partners:{P12883;P05121;Q06830}  
9634 [Cluster 1543]GO:0035268+P biological\_process [name] protein mannosylation [def] "The addition of a mannose residue to a protein acceptor molecule." [GOC  
9635 Pathogen[ P14079] interacts with 1 human partners:{Q9P2X0}  
9636 Pathogen[ P03410] interacts with 1 human partners:{Q9P2X0}  
9637 [Cluster 1544]GO:0022614+P biological\_process [name] membrane to membrane docking [def] "The initial attachment of a membrane to a target membrane, mediated by proteins protruding from the two membranes. Docking requires only that the membranes come close enough for the proteins to interact and adhere." [GOC  
9638 Pathogen[ P03346] interacts with 1 human partners:{P26038}  
9639 Pathogen[ P14079] interacts with 1 human partners:{P26038}  
9640 Pathogen[ P03410] interacts with 1 human partners:{P26038}  
9641 [Cluster 1545]GO:0008344+P biological\_process [name] adult locomotory behavior [def] "Locomotory behavior in a fully developed and mature organism." [GOC  
9642 Pathogen[ Q2Q067] interacts with 3 human partners:{Q99497;P28356;P40426}  
9643 Pathogen[ P0C214] interacts with 2 human partners:{Q99497;Q6Y7W6}  
9644 Pathogen[ P03346] interacts with 9 human partners:{Q8NFW5;P40426;P28358;P04080;P17481;P28356;Q12929;Q99497;Q96AB6}  
9645 Pathogen[ Q85601] interacts with 3 human partners:{Q99497;Q6Y7W6;P40426}  
9646 Pathogen[ P14079] interacts with 6 human partners:{Q7Z2T5;Q96AB6;Q12929;P04080;Q6Y7W6;Q99497}  
9647 Pathogen[ P03410] interacts with 6 human partners:{P40426;Q99497;Q96AB6;Q6Y7W6;Q9UBY8;Q12929}  
9648 Pathogen[ P0C206] interacts with 5 human partners:{Q96AB6;Q99497;Q6Y7W6;P40426;P28356}  
9649 Pathogen[ P03363] interacts with 7 human partners:{Q8NFW5;Q96AB6;P28356;P17481;P28358;Q12929;P40426}  
9650 [Cluster 1546]GO:0002250+P biological\_process [name] adaptive immune response [def] "An immune response based on directed amplification of specific receptors for antigen produced through a somatic diversification process, and allowing for enhanced response to subsequent exposures to the same antigen (immunological memory)." [GO\_REF  
9651 Pathogen[ Q2Q067] interacts with 1 human partners:{O95999}  
9652 Pathogen[ P0C214] interacts with 1 human partners:{O95999}  
9653 Pathogen[ P03346] interacts with 1 human partners:{O95999}  
9654 Pathogen[ Q85601] interacts with 1 human partners:{O95999}  
9655 Pathogen[ P14079] interacts with 1 human partners:{O95999}  
9656 Pathogen[ P03383] interacts with 1 human partners:{O95999}  
9657 Pathogen[ P03410] interacts with 1 human partners:{O95999}  
9658 Pathogen[ P14075] interacts with 1 human partners:{O95999}  
9659 Pathogen[ P0C206] interacts with 1 human partners:{O95999}  
9660 [Cluster 1547]GO:0018023+P biological\_process [name] peptidyl-lysine trimethylation [def] "The methylation of peptidyl-lysine to form peptidyl-N6,N6,N6-trimethyl-L-lysine." [RESID  
9661 Pathogen[ Q2Q067] interacts with 1 human partners:{Q86TU7}  
9662 Pathogen[ P0C214] interacts with 1 human partners:{Q86TU7}  
9663 Pathogen[ P03346] interacts with 2 human partners:{Q9BYW2;Q86TU7}  
9664 Pathogen[ Q85601] interacts with 1 human partners:{Q86TU7}  
9665 Pathogen[ P14079] interacts with 1 human partners:{Q86TU7}  
9666 Pathogen[ P03383] interacts with 1 human partners:{Q86TU7}  
9667 Pathogen[ P03410] interacts with 1 human partners:{Q86TU7}  
9668 Pathogen[ P14075] interacts with 1 human partners:{Q86TU7}  
9669 Pathogen[ P0C206] interacts with 1 human partners:{Q86TU7}

9670 [Cluster 1548]GO:0060445+P biological\_process [name] branching involved in salivary gland morphogenesis [def] "The process in which the branching structure of the salivary gland is generated and organized." [GOC

9671 Pathogen[ Q2Q067] interacts with 1 human partners:{P21980}

9672 Pathogen[ P0C214] interacts with 1 human partners:{P21980}

9673 Pathogen[ P03346] interacts with 1 human partners:{P21980}

9674 Pathogen[ Q85601] interacts with 1 human partners:{P21980}

9675 Pathogen[ P14079] interacts with 2 human partners:{P21980;Q14118}

9676 Pathogen[ P03383] interacts with 1 human partners:{P21980}

9677 Pathogen[ P03410] interacts with 2 human partners:{Q14118;P21980}

9678 Pathogen[ P14075] interacts with 1 human partners:{P21980}

9679 Pathogen[ P0C206] interacts with 1 human partners:{P21980}

9680 [Cluster 1549]GO:0045199+P biological\_process [name] maintenance of epithelial cell apical/basal polarity [def] "The maintenance of the apicobasal polarity of an epithelial cell." [GOC

9681 Pathogen[ P0C214] interacts with 1 human partners:{P16157}

9682 Pathogen[ P03346] interacts with 1 human partners:{P16157}

9683 Pathogen[ Q85601] interacts with 1 human partners:{P16157}

9684 Pathogen[ P14079] interacts with 1 human partners:{P16157}

9685 Pathogen[ P03410] interacts with 1 human partners:{P16157}

9686 Pathogen[ P0C206] interacts with 1 human partners:{P16157}

9687 Pathogen[ P03363] interacts with 1 human partners:{P16157}

9688 [Cluster 1550]GO:0012502+P biological\_process [name] induction of programmed cell death [def] "A process which directly activates any of the steps required for programmed cell death." [GOC

9689 Pathogen[ P14079] interacts with 1 human partners:{Q9NQX7}

9690 Pathogen[ P03410] interacts with 1 human partners:{Q9NQX7}

9691 Pathogen[ P0C206] interacts with 1 human partners:{Q9NQX7}

9692 [Cluster 1551]GO:0035774+P biological\_process [name] positive regulation of insulin secretion involved in cellular response to glucose stimulus [def] "Any process that increases the frequency, rate or extent of the regulated release of insulin that contributes to the response of a cell to glucose." [GOC

9693 Pathogen[ P0C214] interacts with 1 human partners:{Q92934}

9694 Pathogen[ P14079] interacts with 2 human partners:{P16298;Q92934}

9695 Pathogen[ P03410] interacts with 1 human partners:{Q92934}

9696 Pathogen[ P0C206] interacts with 1 human partners:{Q92934}

9697 [Cluster 1552]GO:0060113+P biological\_process [name] inner ear receptor cell differentiation [def] "The process in which relatively unspecialized cells, acquire specialized structural and/or functional features of inner ear receptor cells. Inner ear receptor cells are mechanoreceptors found in the inner ear responsible for transducing signals involved in balance and sensory perception of sound." [GOC

9698 Pathogen[ Q2Q067] interacts with 1 human partners:{Q495M9}

9699 Pathogen[ P0C214] interacts with 1 human partners:{Q495M9}

9700 Pathogen[ P03346] interacts with 3 human partners:{O60443;Q495M9;Q15319}

9701 Pathogen[ Q85601] interacts with 1 human partners:{Q495M9}

9702 Pathogen[ P14079] interacts with 2 human partners:{Q495M9;O60443}

9703 Pathogen[ P03410] interacts with 2 human partners:{Q495M9;O60443}

9704 Pathogen[ P0C206] interacts with 2 human partners:{O60443;Q495M9}

9705 Pathogen[ P03363] interacts with 3 human partners:{O60443;Q495M9;Q15319}

9706 [Cluster 1553]GO:0032787+P biological\_process [name] monocarboxylic acid metabolic process [def] "The chemical reactions and pathways involving monocarboxylic acids, any organic acid containing one carboxyl (COOH) group or anion (COO-)." [GOC

9707 Pathogen[ P0C214] interacts with 1 human partners:{Q6IB77}

9708 Pathogen[ Q85601] interacts with 1 human partners:{Q6IB77}

9709 Pathogen[ P14079] interacts with 1 human partners:{Q6IB77}

9710 Pathogen[ P03410] interacts with 1 human partners:{Q6IB77}

9711 Pathogen[ P0C206] interacts with 1 human partners:{Q6IB77}

9712 [Cluster 1554]GO:0035262+P biological\_process [name] gonad morphogenesis [def] "The process in which the anatomical structures of the gonads are generated and organized. A gonad is an animal organ producing gametes, e.g. the testes or the ovary in mammals." [ISBN

9713 Pathogen[ P03346] interacts with 1 human partners:{Q9NQ69}

9714 [Cluster 1555]GO:0010324+P biological\_process [name] membrane invagination [def] "The infolding of a membrane, resulting in formation of a vesicle." [GOC

9715 Pathogen[ P03410] interacts with 1 human partners:{Q0JRZ9}

9716 [Cluster 1556]GO:0006069+P biological\_process [name] ethanol oxidation [def] "An ethanol metabolic process in which ethanol is converted to acetyl-CoA via acetaldehyde and acetate." [GOC

9717 Pathogen[ P0C214] interacts with 1 human partners:{P07327}

9718 [Cluster 1557]GO:0007185+P biological\_process [name] transmembrane receptor protein tyrosine phosphatase signaling pathway [def] "The series of molecular signals generated as a consequence of a transmembrane receptor tyrosine phosphatase binding to its physiological ligand." [GOC

9719 Pathogen[ P14079] interacts with 1 human partners:{Q8WU20}

9720 Pathogen[ P03410] interacts with 1 human partners:{Q8WU20}

9721 Pathogen[ P0C206] interacts with 1 human partners:{Q8WU20}

9722 [Cluster 1558]GO:0009410+P biological\_process [name] response to xenobiotic stimulus [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a xenobiotic compound stimulus. Xenobiotic compounds are compounds foreign to living organisms." [GOC  
9723 Pathogen[ Q2Q067] interacts with 1 human partners:{P35869}  
9724 Pathogen[ P0C214] interacts with 1 human partners:{P35869}  
9725 Pathogen[ P03346] interacts with 1 human partners:{P35869}  
9726 Pathogen[ Q85601] interacts with 1 human partners:{P35869}  
9727 Pathogen[ P14079] interacts with 1 human partners:{P35869}  
9728 Pathogen[ P03383] interacts with 1 human partners:{P35869}  
9729 Pathogen[ P14075] interacts with 1 human partners:{P35869}  
9730 Pathogen[ P0C206] interacts with 1 human partners:{P35869}  
9731 Pathogen[ P03363] interacts with 1 human partners:{P35869}  
9732 [Cluster 1559]GO:0042412+P biological\_process [name] taurine biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of taurine (2-aminoethanesulfonic acid), a sulphur-containing amino acid derivative important in the metabolism of fats." [GOC  
9733 Pathogen[ P14079] interacts with 1 human partners:{Q16878}  
9734 [Cluster 1560]GO:1900276+P  
9735 Pathogen[ P0C214] interacts with 1 human partners:{Q96G01}  
9736 Pathogen[ P03346] interacts with 1 human partners:{Q96G01}  
9737 Pathogen[ Q85601] interacts with 1 human partners:{Q96G01}  
9738 Pathogen[ P14079] interacts with 1 human partners:{Q96G01}  
9739 Pathogen[ P03410] interacts with 1 human partners:{Q96G01}  
9740 Pathogen[ P0C206] interacts with 1 human partners:{Q96G01}  
9741 [Cluster 1561]GO:0071709+P biological\_process [name] membrane assembly [def] "The aggregation, arrangement and bonding together of a set of components to form a membrane." [GOC  
9742 Pathogen[ Q2Q067] interacts with 1 human partners:{Q01082}  
9743 Pathogen[ P0C214] interacts with 1 human partners:{Q01082}  
9744 Pathogen[ P03346] interacts with 1 human partners:{Q01082}  
9745 Pathogen[ Q85601] interacts with 1 human partners:{Q01082}  
9746 Pathogen[ P14079] interacts with 1 human partners:{Q01082}  
9747 Pathogen[ P03410] interacts with 1 human partners:{Q01082}  
9748 Pathogen[ P0C206] interacts with 1 human partners:{Q01082}  
9749 Pathogen[ P03363] interacts with 1 human partners:{Q01082}  
9750 [Cluster 1562]GO:0033145+P biological\_process [name] positive regulation of intracellular steroid hormone receptor signaling pathway [def] "Any process that activates or increases the frequency, rate or extent of the activity of any intracellular steroid hormone receptor signaling pathway." [GOC  
9751 Pathogen[ Q2Q067] interacts with 1 human partners:{P63279}  
9752 Pathogen[ P0C214] interacts with 1 human partners:{P63279}  
9753 Pathogen[ P03346] interacts with 1 human partners:{P63279}  
9754 Pathogen[ Q85601] interacts with 1 human partners:{P63279}  
9755 Pathogen[ P14079] interacts with 1 human partners:{P63279}  
9756 Pathogen[ P03383] interacts with 1 human partners:{P63279}  
9757 Pathogen[ P03410] interacts with 1 human partners:{P63279}  
9758 Pathogen[ P14075] interacts with 1 human partners:{P63279}  
9759 Pathogen[ P03363] interacts with 1 human partners:{P63279}  
9760 [Cluster 1563]GO:0035082+P biological\_process [name] axoneme assembly [def] "The assembly and organization of an axoneme, the bundle of microtubules and associated proteins that forms the core of cilia and flagella in eukaryotic cells and is responsible for their movements." [GOC  
9761 Pathogen[ P14079] interacts with 2 human partners:{Q9Y4R7;P56715}  
9762 Pathogen[ P03410] interacts with 2 human partners:{Q9Y4R7;P56715}  
9763 Pathogen[ P0C206] interacts with 1 human partners:{P56715}  
9764 Pathogen[ P03363] interacts with 1 human partners:{P56715}  
9765 [Cluster 1564]GO:0007387+P biological\_process [name] anterior compartment pattern formation [def] "The process giving rise to specification of cell identity in the anterior compartments of the segmented embryo." [http  
9766 Pathogen[ Q2Q067] interacts with 1 human partners:{P40426}  
9767 Pathogen[ P03346] interacts with 1 human partners:{P40426}  
9768 Pathogen[ Q85601] interacts with 1 human partners:{P40426}  
9769 Pathogen[ P03410] interacts with 1 human partners:{P40426}  
9770 Pathogen[ P0C206] interacts with 1 human partners:{P40426}  
9771 Pathogen[ P03363] interacts with 1 human partners:{P40426}  
9772 [Cluster 1565]GO:0001300+P biological\_process [name] chronological cell aging [def] "The process associated with progression of the cell from its inception to the end of its lifespan that occurs when the cell is in a non-dividing, or quiescent, state." [GOC  
9773 Pathogen[ P0C214] interacts with 1 human partners:{P05121}  
9774 Pathogen[ Q85601] interacts with 1 human partners:{P05121}  
9775 Pathogen[ P03410] interacts with 1 human partners:{P05121}  
9776 Pathogen[ P0C206] interacts with 1 human partners:{P05121}  
9777 [Cluster 1566]GO:0006103+P biological\_process [name] 2-oxoglutarate metabolic process [def] "The chemical reactions and pathways involving oxoglutarate, the dianion of

2-oxoglutaric acid. It is a key constituent of the TCA cycle and a key intermediate in amino-acid metabolism." [ISBN

9778 Pathogen[ POC214] interacts with 7 human partners:{O75874;P48735;P50213;O43837;P09622;P36957;P51553}

9779 Pathogen[ POC206] interacts with 1 human partners:{P50213}

9780 [Cluster 1567]GO:0001946+P biological\_process [name] lymphangiogenesis [def] "Lymph vessel formation when new vessels emerge from the proliferation of pre-existing vessels." [GOC

9781 Pathogen[ P03346] interacts with 1 human partners:{P35713}

9782 [Cluster 1568]GO:0042659+P biological\_process [name] regulation of cell fate specification [def] "Any process that mediates the adoption of a specific fate by a cell." [GOC

9783 Pathogen[ P03346] interacts with 1 human partners:{P61968}

9784 Pathogen[ Q85601] interacts with 1 human partners:{P61968}

9785 Pathogen[ POC206] interacts with 1 human partners:{P61968}

9786 [Cluster 1569]GO:0071299+P biological\_process [name] cellular response to vitamin A [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a vitamin A stimulus." [GOC

9787 Pathogen[ P14079] interacts with 1 human partners:{Q16873}

9788 Pathogen[ P03410] interacts with 1 human partners:{Q16873}

9789 [Cluster 1570]GO:0035883+P biological\_process [name] enteroendocrine cell differentiation [def] "The process in which a relatively unspecialized cell acquires specialized structural and/or functional features of an enteroendocrine cell. Enteroendocrine cells are hormonally active epithelial cells in the gut that constitute the diffuse neuroendocrine system." [CL

9790 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13562}

9791 Pathogen[ P03346] interacts with 1 human partners:{Q13562}

9792 Pathogen[ Q85601] interacts with 1 human partners:{Q13562}

9793 Pathogen[ POC206] interacts with 1 human partners:{Q13562}

9794 [Cluster 1571]GO:0051926+P biological\_process [name]negative regulation of calcium ion transport [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the directed movement of calcium ions into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore." [GOC

9795 Pathogen[ Q2Q067] interacts with 1 human partners:{P29474}

9796 Pathogen[ POC214] interacts with 1 human partners:{P29474}

9797 Pathogen[ P03346] interacts with 1 human partners:{P29474}

9798 Pathogen[ Q85601] interacts with 1 human partners:{P29474}

9799 Pathogen[ P03383] interacts with 1 human partners:{P29474}

9800 Pathogen[ P03410] interacts with 1 human partners:{P29474}

9801 Pathogen[ P14075] interacts with 1 human partners:{P29474}

9802 Pathogen[ POC206] interacts with 1 human partners:{P29474}

9803 Pathogen[ P03363] interacts with 1 human partners:{P29474}

9804 [Cluster 1572]GO:0090400+P biological\_process [name] stress-induced premature senescence [def] "A cellular senescence process associated with the dismantling of a cell as a response to environmental factors such as hydrogen peroxide or X-rays." [GOC

9805 Pathogen[ Q2Q067] interacts with 1 human partners:{P38936}

9806 Pathogen[ POC214] interacts with 1 human partners:{P38936}

9807 Pathogen[ P03346] interacts with 1 human partners:{P38936}

9808 Pathogen[ Q85601] interacts with 1 human partners:{P38936}

9809 Pathogen[ P14079] interacts with 1 human partners:{P38936}

9810 Pathogen[ P03410] interacts with 1 human partners:{P38936}

9811 Pathogen[ POC206] interacts with 1 human partners:{P38936}

9812 [Cluster 1573]GO:0007274+P biological\_process [name] neuromuscular synaptic transmission [def] "The process of communication from a neuron to a muscle, across a synapse." [GOC

9813 Pathogen[ P14079] interacts with 1 human partners:{Q9Y4J8}

9814 Pathogen[ P03410] interacts with 2 human partners:{O60333;Q9Y4J8}

9815 Pathogen[ POC206] interacts with 1 human partners:{Q9Y4J8}

9816 Pathogen[ P03363] interacts with 1 human partners:{O60333}

9817 [Cluster 1574]GO:0071377+P biological\_process [name] cellular response to glucagon stimulus [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a glucagon stimulus." [GOC

9818 Pathogen[ Q2Q067] interacts with 1 human partners:{P62879}

9819 Pathogen[ POC214] interacts with 1 human partners:{P62879}

9820 Pathogen[ P03346] interacts with 1 human partners:{P62879}

9821 Pathogen[ Q85601] interacts with 1 human partners:{P62879}

9822 Pathogen[ P03383] interacts with 1 human partners:{P62879}

9823 Pathogen[ P03410] interacts with 1 human partners:{P62879}

9824 Pathogen[ P14075] interacts with 1 human partners:{P62879}

9825 Pathogen[ POC206] interacts with 1 human partners:{P62879}

9826 Pathogen[ P03363] interacts with 1 human partners:{P62879}

9827 [Cluster 1575]GO:0046597+P biological\_process [name] negative regulation of virion penetration into host cell [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the introduction of virus particles into the cell." [GOC



9828 Pathogen[ P14079] interacts with 1 human partners:{P13164}

9829 [Cluster 1576]GO:0060415+P biological\_process [name] muscle tissue morphogenesis  
[def] "The process in which the anatomical structures of muscle tissue are generated and organized. Muscle tissue consists of a set of cells that are part of an organ and carry out a contractive function." [GOC

9830 Pathogen[ Q2Q067] interacts with 2 human partners:{P13349;P23409}

9831 Pathogen[ P0C214] interacts with 1 human partners:{P13349}

9832 Pathogen[ P03346] interacts with 3 human partners:{P13349;P23409;P23759}

9833 Pathogen[ Q85601] interacts with 2 human partners:{P13349;P23409}

9834 Pathogen[ P14079] interacts with 2 human partners:{P13349;P23409}

9835 Pathogen[ P03410] interacts with 2 human partners:{P23409;P13349}

9836 Pathogen[ P0C206] interacts with 2 human partners:{P23409;P13349}

9837 Pathogen[ P03363] interacts with 3 human partners:{P13349;P23759;P23409}

9838 [Cluster 1577]GO:0019470+P biological\_process [name] 4-hydroxyproline catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of 4-hydroxyproline, C5H9NO3, a derivative of the amino acid proline." [GOC

9839 Pathogen[ P0C214] interacts with 1 human partners:{Q86XE5}

9840 Pathogen[ P14079] interacts with 1 human partners:{Q86XE5}

9841 Pathogen[ P03410] interacts with 1 human partners:{Q86XE5}

9842 Pathogen[ P14075] interacts with 1 human partners:{Q86XE5}

9843 Pathogen[ P0C206] interacts with 1 human partners:{Q86XE5}

9844 [Cluster 1578]GO:0072015+P biological\_process [name] glomerular visceral epithelial cell development [def] "The process whose specific outcome is the progression of a glomerular visceral epithelial cell over time, from its formation to the mature structure. A glomerular visceral epithelial cell is a specialized epithelial cell that contains \"feet\" that interdigitate with the \"feet\" of other glomerular epithelial cells." [GOC

9845 Pathogen[ Q2Q067] interacts with 1 human partners:{Q86UL8}

9846 Pathogen[ P03346] interacts with 1 human partners:{Q86UL8}

9847 Pathogen[ Q85601] interacts with 1 human partners:{Q86UL8}

9848 Pathogen[ P14079] interacts with 1 human partners:{Q86UL8}

9849 Pathogen[ P03410] interacts with 1 human partners:{Q86UL8}

9850 Pathogen[ P0C206] interacts with 1 human partners:{Q86UL8}

9851 Pathogen[ P03363] interacts with 1 human partners:{Q86UL8}

9852 [Cluster 1579]GO:0006544+P biological\_process [name] glycine metabolic process [def] "The chemical reactions and pathways involving glycine, aminoethanoic acid." [GOC

9853 Pathogen[ Q2Q067] interacts with 1 human partners:{P34896}

9854 Pathogen[ P0C214] interacts with 4 human partners:{P34897;Q9UI17;P34896;Q6IB77}

9855 Pathogen[ Q85601] interacts with 2 human partners:{P34896;Q6IB77}

9856 Pathogen[ P14079] interacts with 4 human partners:{P34897;Q6IB77;Q9UI17;P34896}

9857 Pathogen[ P03383] interacts with 1 human partners:{P34896}

9858 Pathogen[ P03410] interacts with 4 human partners:{Q9UI17;Q6IB77;P34897;P34896}

9859 Pathogen[ P14075] interacts with 1 human partners:{P34896}

9860 Pathogen[ P0C206] interacts with 3 human partners:{P34897;P34896;Q6IB77}

9861 [Cluster 1580]GO:0031943+P biological\_process [name] regulation of glucocorticoid metabolic process [def] "Any process that modulates the frequency, rate or extent of the chemical reactions and pathways involving glucocorticoids." [GOC

9862 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UNE7}

9863 Pathogen[ P0C214] interacts with 1 human partners:{Q9UNE7}

9864 Pathogen[ P03346] interacts with 1 human partners:{Q9UNE7}

9865 Pathogen[ Q85601] interacts with 1 human partners:{Q9UNE7}

9866 Pathogen[ P03410] interacts with 1 human partners:{Q9UNE7}

9867 Pathogen[ P0C206] interacts with 1 human partners:{Q9UNE7}

9868 Pathogen[ P03363] interacts with 1 human partners:{Q9UNE7}

9869 [Cluster 1581]GO:0043519+P biological\_process [name] regulation of myosin II filament organization [def] "Any process that modulates the frequency, rate or extent of the assembly, arrangement of constituent parts, or disassembly of a bipolar filament composed of myosin II molecules." [GOC

9870 Pathogen[ P14079] interacts with 1 human partners:{P61158}

9871 [Cluster 1582]GO:0097028+P biological\_process [name] dendritic cell differentiation [def] "The process in which a precursor cell type acquires the specialized features of a dendritic cell. A dendritic cell is a leukocyte of dendritic lineage specialized in the uptake, processing, and transport of antigens to lymph nodes for the purpose of stimulating an immune response via T cell activation." [CL

9872 Pathogen[ Q2Q067] interacts with 1 human partners:{P15976}

9873 Pathogen[ P03346] interacts with 1 human partners:{P15976}

9874 Pathogen[ Q85601] interacts with 1 human partners:{P15976}

9875 Pathogen[ P14079] interacts with 2 human partners:{P15976;P04141}

9876 Pathogen[ P03410] interacts with 2 human partners:{P04141;P15976}

9877 Pathogen[ P0C206] interacts with 1 human partners:{P15976}

9878 [Cluster 1583]GO:0045047+P biological\_process [name] protein targeting to ER [def] "The process of directing proteins towards the endoplasmic reticulum (ER) using signals contained within the protein. One common mechanism uses a 16- to 30-residue signal sequence, typically located at the N-terminus of the protein and containing positively charged amino acids followed by a continuous stretch of hydrophobic residues, which directs the ribosome to the ER membrane and initiates transport of the growing

polypeptide across the ER membrane." [ISBN

9879 Pathogen[ P14079] interacts with 1 human partners:{P60059}

9880 Pathogen[ P03410] interacts with 1 human partners:{P60059}

9881 [Cluster 1584]GO:0002090+P biological\_process [name] regulation of receptor internalization [def] "Any process that modulates the frequency, rate or extent of receptor internalization." [GOC

9882 Pathogen[ Q2Q067] interacts with 1 human partners:{Q99962}

9883 Pathogen[ P0C214] interacts with 1 human partners:{Q99962}

9884 Pathogen[ P03346] interacts with 1 human partners:{Q99962}

9885 Pathogen[ Q85601] interacts with 1 human partners:{Q99962}

9886 Pathogen[ P14079] interacts with 1 human partners:{Q99962}

9887 Pathogen[ P03410] interacts with 1 human partners:{Q99962}

9888 Pathogen[ P0C206] interacts with 1 human partners:{Q99962}

9889 Pathogen[ P03363] interacts with 1 human partners:{Q99962}

9890 [Cluster 1585]GO:0032717+P biological\_process [name] negative regulation of interleukin-8 production [def] "Any process that stops, prevents, or reduces the frequency, rate, or extent of interleukin-8 production." [GOC

9891 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8WUQ7}

9892 Pathogen[ P03346] interacts with 1 human partners:{Q8WUQ7}

9893 Pathogen[ P14079] interacts with 1 human partners:{Q8WUQ7}

9894 Pathogen[ P03383] interacts with 1 human partners:{Q8WUQ7}

9895 Pathogen[ P03410] interacts with 1 human partners:{Q8WUQ7}

9896 Pathogen[ P14075] interacts with 1 human partners:{Q8WUQ7}

9897 Pathogen[ P0C206] interacts with 1 human partners:{Q8WUQ7}

9898 Pathogen[ P03363] interacts with 1 human partners:{Q8WUQ7}

9899 [Cluster 1586]GO:0070986+P biological\_process [name] left/right axis specification [def] "The establishment, maintenance and elaboration of the left/right axis. The left/right axis is defined by a line that runs orthogonal to both the anterior/posterior and dorsal/ventral axes. Each side is defined from the viewpoint of the organism rather of the observer (as per anatomical axes)." [GOC

9900 Pathogen[ P03346] interacts with 1 human partners:{Q8N157}

9901 Pathogen[ P14079] interacts with 1 human partners:{Q8N157}

9902 Pathogen[ P03410] interacts with 1 human partners:{Q8N157}

9903 Pathogen[ P0C206] interacts with 1 human partners:{Q8N157}

9904 Pathogen[ P03363] interacts with 1 human partners:{Q8N157}

9905 [Cluster 1587]GO:0045743+P biological\_process [name] positive regulation of fibroblast growth factor receptor signaling pathway [def] "Any process that activates or increases the frequency, rate or extent of fibroblast growth factor receptor signaling pathway activity." [GOC

9906 Pathogen[ P14079] interacts with 1 human partners:{Q8TAT2}

9907 Pathogen[ P03410] interacts with 1 human partners:{Q8TAT2}

9908 [Cluster 1588]GO:0035987+P biological\_process [name] endodermal cell differentiation [def] "The process in which a relatively unspecialized cell acquires the specialized features of an endoderm cell, a cell of the inner of the three germ layers of the embryo." [CL

9909 Pathogen[ P03346] interacts with 1 human partners:{Q9H2W2}

9910 Pathogen[ P03363] interacts with 1 human partners:{Q9H2W2}

9911 [Cluster 1589]GO:0021527+P biological\_process [name] spinal cord association neuron differentiation [def] "The process in which neuroepithelial cells in the neural tube acquire specialized structural and/or functional features of association neurons. Association neurons are cells located in the dorsal portion of the spinal cord that integrate sensory input. Differentiation includes the processes involved in commitment of a cell to a specific fate." [GO\_REF

9912 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9H4S2}

9913 Pathogen[ P03346] interacts with 6 human partners:{Q9H4S2;P23759;P17542;Q9H2C1;Q9UBR4;P61968}

9914 Pathogen[ Q85601] interacts with 2 human partners:{P61968;Q9H4S2}

9915 Pathogen[ P0C206] interacts with 4 human partners:{Q9H4S2;Q9H2C1;Q9UBR4;P61968}

9916 Pathogen[ P03363] interacts with 2 human partners:{Q9H4S2;P23759}

9917 [Cluster 1590]GO:0048743+P biological\_process [name] positive regulation of skeletal muscle fiber development [def] "Any process that activates, maintains or increases the rate of skeletal muscle fiber development. Muscle fibers are formed by the maturation of myotubes. They can be classed as slow, intermediate/fast or fast." [GOC

9918 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UI56}

9919 Pathogen[ P0C214] interacts with 1 human partners:{Q9UI56}

9920 Pathogen[ P03346] interacts with 1 human partners:{Q9UI56}

9921 Pathogen[ P14079] interacts with 1 human partners:{Q9UI56}

9922 Pathogen[ P03383] interacts with 1 human partners:{Q9UI56}

9923 Pathogen[ P03410] interacts with 1 human partners:{Q9UI56}

9924 Pathogen[ P14075] interacts with 1 human partners:{Q9UI56}

9925 Pathogen[ P0C206] interacts with 1 human partners:{Q9UI56}

9926 Pathogen[ P03363] interacts with 1 human partners:{Q9UI56}

9927 [Cluster 1591]GO:0006163+P biological\_process [name] purine nucleotide metabolic process [def] "The chemical reactions and pathways involving a purine nucleotide, a compound consisting of nucleoside (a purine base linked to a deoxyribose or ribose sugar) esterified with a phosphate group at either the 3' or 5'-hydroxyl group of the

sugar." [GOC  
9928 Pathogen[ POC214] interacts with 1 human partners:{P30566}  
9929 Pathogen[ P03410] interacts with 1 human partners:{P30566}  
9930 [Cluster 1592]GO:0021891+P biological\_process [name] olfactory bulb interneuron development [def] "The process whose specific outcome is the progression of an interneuron residing in the olfactory bulb, from its initial commitment, to the fully functional differentiated cell." [GO\_REF  
9931 Pathogen[ P03346] interacts with 1 human partners:{Q9BXA9}  
9932 [Cluster 1593]GO:0021636+P biological\_process [name] trigeminal nerve morphogenesis [def] "The process in which the anatomical structure of the trigeminal nerve is generated and organized. The trigeminal nerve is composed of three large branches. They are the ophthalmic (V1, sensory), maxillary (V2, sensory) and mandibular (V3, motor and sensory) branches. The sensory ophthalmic branch travels through the superior orbital fissure and passes through the orbit to reach the skin of the forehead and top of the head. The maxillary nerve contains sensory branches that reach the pterygopalatine fossa via the inferior orbital fissure (face, cheek and upper teeth) and pterygopalatine canal (soft and hard palate, nasal cavity and pharynx). The motor part of the mandibular branch is distributed to the muscles of mastication, the mylohyoid muscle and the anterior belly of the digastric. The mandibular nerve also innervates the tensor veli palatini and tensor tympani muscles. The sensory part of the mandibular nerve is composed of branches that carry general sensory information from the mucous membranes of the mouth and cheek, anterior two-thirds of the tongue, lower teeth, skin of the lower jaw, side of the head and scalp and meninges of the anterior and middle cranial fossae." [GO\_REF  
9933 Pathogen[ Q2Q067] interacts with 1 human partners:{O14786}  
9934 Pathogen[ POC214] interacts with 1 human partners:{O14786}  
9935 Pathogen[ P03346] interacts with 1 human partners:{O14786}  
9936 Pathogen[ Q85601] interacts with 1 human partners:{O14786}  
9937 Pathogen[ P03410] interacts with 1 human partners:{O14786}  
9938 Pathogen[ POC206] interacts with 1 human partners:{O14786}  
9939 Pathogen[ P03363] interacts with 1 human partners:{O14786}  
9940 [Cluster 1594]GO:0030203+P biological\_process [name] glycosaminoglycan metabolic process [def] "The chemical reactions and pathways involving glycosaminoglycans, any one of a group of polysaccharides that contain amino sugars. Formerly known as mucopolysaccharides, they include hyaluronic acid and chondroitin, which provide lubrication in joints and form part of the matrix of cartilage. The three-dimensional structure of these molecules enables them to trap water, which forms a gel and gives glycosaminoglycans their elastic properties." [ISBN  
9941 Pathogen[ POC214] interacts with 2 human partners:{O75330;P16278}  
9942 Pathogen[ P03346] interacts with 2 human partners:{O75330;P16278}  
9943 Pathogen[ Q85601] interacts with 1 human partners:{O75330}  
9944 Pathogen[ P14079] interacts with 8 human partners:{Q94923;P16278;O43505;P54802;P35475;Q9UL01;Q9NWW5;O75330}  
9945 Pathogen[ P03410] interacts with 6 human partners:{O75330;Q9NWW5;P54802;P16278;Q9UL01;O43505}  
9946 Pathogen[ P14075] interacts with 2 human partners:{O43505;O75330}  
9947 Pathogen[ POC206] interacts with 4 human partners:{Q9UL01;O75330;P16278;O43505}  
9948 [Cluster 1595]GO:0043129+P biological\_process [name] surfactant homeostasis [def] "Any process involved in the maintenance of a steady-state level of the surface-active lipoprotein mixture which coats the alveoli." [PMID  
9949 Pathogen[ Q2Q067] interacts with 1 human partners:{Q99814}  
9950 Pathogen[ POC214] interacts with 1 human partners:{Q99814}  
9951 Pathogen[ P03346] interacts with 1 human partners:{Q99814}  
9952 Pathogen[ Q85601] interacts with 1 human partners:{Q99814}  
9953 Pathogen[ P14079] interacts with 1 human partners:{Q99814}  
9954 Pathogen[ P03410] interacts with 1 human partners:{Q99814}  
9955 Pathogen[ POC206] interacts with 1 human partners:{Q99814}  
9956 Pathogen[ P03363] interacts with 1 human partners:{Q99814}  
9957 [Cluster 1596]GO:0019518+P biological\_process [name] L-threonine catabolic process to glycine [def] "The chemical reactions and pathways resulting in the breakdown of L-threonine (the L-enantiomer of 2-amino-3-hydroxybutyric acid) to form to form 2-amino-3-oxobutanoate, which is subsequently converted to glycine." [GOC  
9958 Pathogen[ P03410] interacts with 1 human partners:{O75600}  
9959 [Cluster 1597]GO:0071396+P biological\_process [name] cellular response to lipid [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a lipid stimulus." [GOC  
9960 Pathogen[ POC214] interacts with 1 human partners:{Q92934}  
9961 Pathogen[ P14079] interacts with 1 human partners:{Q92934}  
9962 Pathogen[ P03410] interacts with 1 human partners:{Q92934}  
9963 Pathogen[ POC206] interacts with 1 human partners:{Q92934}  
9964 [Cluster 1598]GO:0031129+P biological\_process [name] inductive cell-cell signaling [def] "Signaling at short range between cells of different ancestry and developmental potential that results in one cell or group of cells effecting a developmental change in the other. This is often done by secretion of proteins by one cell which affects the neighboring cells and causes them to adopt a certain fate." [GOC

9965 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NSC2}

9966 Pathogen[ POC214] interacts with 1 human partners:{Q9NSC2}

9967 Pathogen[ P03346] interacts with 1 human partners:{Q9NSC2}

9968 Pathogen[ Q85601] interacts with 1 human partners:{Q9NSC2}

9969 Pathogen[ P14079] interacts with 1 human partners:{Q9NSC2}

9970 Pathogen[ P03383] interacts with 1 human partners:{Q9NSC2}

9971 Pathogen[ P03410] interacts with 1 human partners:{Q9NSC2}

9972 Pathogen[ P14075] interacts with 1 human partners:{Q9NSC2}

9973 Pathogen[ POC206] interacts with 1 human partners:{Q9NSC2}

9974 [Cluster 1599]GO:0033089+P biological\_process [name] positive regulation of T cell differentiation in thymus [def] "Any process that activates or increases the frequency, rate or extent of T cell differentiation in the thymus." [GOC

9975 Pathogen[ Q2Q067] interacts with 1 human partners:{A2RU30}

9976 Pathogen[ POC214] interacts with 1 human partners:{A2RU30}

9977 Pathogen[ P03346] interacts with 1 human partners:{A2RU30}

9978 Pathogen[ P14079] interacts with 1 human partners:{A2RU30}

9979 Pathogen[ P03383] interacts with 1 human partners:{A2RU30}

9980 Pathogen[ P03410] interacts with 1 human partners:{A2RU30}

9981 Pathogen[ P14075] interacts with 1 human partners:{A2RU30}

9982 Pathogen[ POC206] interacts with 1 human partners:{A2RU30}

9983 Pathogen[ P03363] interacts with 1 human partners:{A2RU30}

9984 [Cluster 1600]GO:0048937+P biological\_process [name] lateral line nerve glial cell development [def] "The process aimed at the progression of a lateral line glial cell over time, from initial commitment of the cell to a specific fate, to the fully functional differentiated cell." [GOC

9985 Pathogen[ P03346] interacts with 1 human partners:{Q9UJU5}

9986 Pathogen[ P03363] interacts with 1 human partners:{Q9UJU5}

9987 [Cluster 1601]GO:0071357+P biological\_process [name] cellular response to type I interferon [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a type I interferon stimulus. Type I interferons include the interferon-alpha, beta, delta, epsilon, zeta, kappa, tau, and omega gene families." [GOC

9988 Pathogen[ Q2Q067] interacts with 1 human partners:{P09914}

9989 Pathogen[ POC214] interacts with 1 human partners:{P09914}

9990 Pathogen[ P03346] interacts with 1 human partners:{P09914}

9991 Pathogen[ Q85601] interacts with 1 human partners:{P09914}

9992 Pathogen[ P14079] interacts with 1 human partners:{P09914}

9993 Pathogen[ P03410] interacts with 1 human partners:{P09914}

9994 Pathogen[ POC206] interacts with 1 human partners:{P09914}

9995 Pathogen[ P03363] interacts with 1 human partners:{P09914}

9996 [Cluster 1602]GO:0051668+P biological\_process [name] localization within membrane [def] "Any process in which a substance or cellular entity, such as a protein complex or organelle, is transported to, and/or maintained in, a specific location within a membrane." [GOC

9997 Pathogen[ Q2Q067] interacts with 1 human partners:{P63000}

9998 Pathogen[ POC214] interacts with 1 human partners:{P63000}

9999 Pathogen[ P03346] interacts with 1 human partners:{P63000}

10000 Pathogen[ Q85601] interacts with 1 human partners:{P63000}

10001 Pathogen[ P03383] interacts with 1 human partners:{P63000}

10002 Pathogen[ P03410] interacts with 1 human partners:{P63000}

10003 Pathogen[ P14075] interacts with 1 human partners:{P63000}

10004 Pathogen[ POC206] interacts with 1 human partners:{P63000}

10005 Pathogen[ P03363] interacts with 1 human partners:{P63000}

10006 [Cluster 1603]GO:2000810+P biological\_process [name] regulation of tight junction assembly [def] "Any process that modulates the frequency, rate or extent of tight junction assembly." [GOC

10007 Pathogen[ P03346] interacts with 1 human partners:{O95863}

10008 [Cluster 1604]GO:0070887+P biological\_process [name] cellular response to chemical stimulus [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a chemical stimulus." [GOC

10009 Pathogen[ POC214] interacts with 1 human partners:{P05121}

10010 Pathogen[ Q85601] interacts with 1 human partners:{P05121}

10011 Pathogen[ P14079] interacts with 2 human partners:{P31751;P24588}

10012 Pathogen[ P03410] interacts with 2 human partners:{P05121;P24588}

10013 Pathogen[ POC206] interacts with 1 human partners:{P05121}

10014 [Cluster 1605]GO:0033129+P biological\_process [name] positive regulation of histone phosphorylation [def] "Any process that activates or increases the frequency, rate or extent of the addition of one or more phosphate groups to a histone protein." [GOC

10015 Pathogen[ Q2Q067] interacts with 2 human partners:{P14635;O75582}

10016 Pathogen[ POC214] interacts with 2 human partners:{P14635;O75582}

10017 Pathogen[ P03346] interacts with 2 human partners:{P14635;O75582}

10018 Pathogen[ Q85601] interacts with 2 human partners:{P14635;O75582}

10019 Pathogen[ P14079] interacts with 2 human partners:{O75582;P14635}

10020 Pathogen[ P03383] interacts with 2 human partners:{O75582;P14635}

10021 Pathogen[ P03410] interacts with 2 human partners:{O75582;P14635}

10022 Pathogen[ P14075] interacts with 2 human partners:{P14635;O75582}

10023 Pathogen[ POC206] interacts with 2 human partners:{O75582;P14635}

10024 [Cluster 1606]GO:0050957+P biological\_process [name] equilibrioception [def] "The series of events required for an organism to receive an orientational stimulus, convert it to a molecular signal, and recognize and characterize the signal. Equilibrioception refers to a combination of processes by which an organism can perceive its orientation with respect to gravity. In animals, stimuli come from labyrinth system of the inner ears, monitoring the direction of motion\_ visual stimuli, with information on orientation and motion\_ pressure receptors, which tell the organism which body surfaces are in contact with the ground\_ and proprioceptive cues, which report which parts of the body are in motion." [http

10025 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9Y6N9;Q495M9}

10026 Pathogen[ POC214] interacts with 2 human partners:{Q495M9;Q9Y6N9}

10027 Pathogen[ P03346] interacts with 2 human partners:{Q9Y6N9;Q495M9}

10028 Pathogen[ Q85601] interacts with 2 human partners:{Q9Y6N9;Q495M9}

10029 Pathogen[ P14079] interacts with 2 human partners:{Q9Y6N9;Q495M9}

10030 Pathogen[ P03410] interacts with 2 human partners:{Q495M9;Q9Y6N9}

10031 Pathogen[ POC206] interacts with 2 human partners:{Q9Y6N9;Q495M9}

10032 Pathogen[ P03363] interacts with 2 human partners:{Q9Y6N9;Q495M9}

10033 [Cluster 1607]GO:0032765+P biological\_process [name] positive regulation of mast cell cytokine production [def] "Any process that activates or increases the frequency, rate, or extent of mast cell cytokine production." [GOC

10034 Pathogen[ Q2Q067] interacts with 1 human partners:{O95999}

10035 Pathogen[ POC214] interacts with 1 human partners:{O95999}

10036 Pathogen[ P03346] interacts with 1 human partners:{O95999}

10037 Pathogen[ Q85601] interacts with 1 human partners:{O95999}

10038 Pathogen[ P14079] interacts with 1 human partners:{O95999}

10039 Pathogen[ P03383] interacts with 1 human partners:{O95999}

10040 Pathogen[ P03410] interacts with 1 human partners:{O95999}

10041 Pathogen[ P14075] interacts with 1 human partners:{O95999}

10042 Pathogen[ POC206] interacts with 1 human partners:{O95999}

10043 [Cluster 1608]GO:0031365+P biological\_process [name] N-terminal protein amino acid modification [def] "The alteration of the N-terminal amino acid residue in a protein." [GOC

10044 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9HBH1}

10045 Pathogen[ POC214] interacts with 1 human partners:{Q9HBH1}

10046 Pathogen[ P03346] interacts with 1 human partners:{Q9HBH1}

10047 Pathogen[ Q85601] interacts with 1 human partners:{Q9HBH1}

10048 Pathogen[ P14079] interacts with 1 human partners:{Q9HBH1}

10049 Pathogen[ P03383] interacts with 1 human partners:{Q9HBH1}

10050 Pathogen[ P03410] interacts with 1 human partners:{Q9HBH1}

10051 Pathogen[ P14075] interacts with 1 human partners:{Q9HBH1}

10052 Pathogen[ POC206] interacts with 1 human partners:{Q9HBH1}

10053 [Cluster 1609]GO:0000239+P biological\_process [name] pachytene [def] "A cell cycle process comprising the steps by which a cell progresses through the third stage of prophase I in meiosis, in which crossing over occurs between a chromatid in one partner and another chromatid in the homologous chromosome." [GOC

10054 Pathogen[ POC214] interacts with 1 human partners:{P40692}

10055 Pathogen[ Q85601] interacts with 1 human partners:{P40692}

10056 Pathogen[ P14079] interacts with 1 human partners:{P40692}

10057 Pathogen[ P03410] interacts with 1 human partners:{P40692}

10058 Pathogen[ POC206] interacts with 1 human partners:{P40692}

10059 [Cluster 1610]GO:0021562+P biological\_process [name] vestibulocochlear nerve development [def] "The process whose specific outcome is the progression of the vestibulocochlear nerve over time, from its formation to the mature structure. This sensory nerve innervates the membranous labyrinth of the inner ear. The vestibular branch innervates the vestibular apparatus that senses head position changes relative to gravity. The auditory branch innervates the cochlear duct, which is connected to the three bony ossicles which transduce sound waves into fluid movement in the cochlea." [GO\_REF

10060 Pathogen[ P03346] interacts with 1 human partners:{Q15319}

10061 Pathogen[ P03363] interacts with 1 human partners:{Q15319}

10062 [Cluster 1611]GO:0050918+P biological\_process [name] positive chemotaxis [def] "The directed movement of a motile cell or organism towards a higher concentration of a chemical." [GOC

10063 Pathogen[ Q2Q067] interacts with 1 human partners:{Q14160}

10064 Pathogen[ POC214] interacts with 1 human partners:{Q14160}

10065 Pathogen[ P03346] interacts with 1 human partners:{Q14160}

10066 Pathogen[ Q85601] interacts with 1 human partners:{Q14160}

10067 Pathogen[ P03383] interacts with 1 human partners:{Q14160}

10068 Pathogen[ P03410] interacts with 1 human partners:{Q14160}

10069 Pathogen[ P14075] interacts with 1 human partners:{Q14160}

10070 Pathogen[ POC206] interacts with 1 human partners:{Q14160}

10071 Pathogen[ P03363] interacts with 1 human partners:{Q14160}

10072 [Cluster 1612]GO:0006003+P biological\_process [name] fructose 2,6-bisphosphate metabolic process [def] "The chemical reactions and pathways involving fructose

2,6-bisphosphate. The D enantiomer is an important regulator of the glycolytic and gluconeogenic pathways. It inhibits fructose 1,6-bisphosphatase and activates phosphofruktokinase." [ISBN

10073 Pathogen[ POC214] interacts with 2 human partners:{O60825;P16118}

10074 Pathogen[ Q85601] interacts with 2 human partners:{O60825;P16118}

10075 Pathogen[ P03410] interacts with 1 human partners:{P16118}

10076 Pathogen[ P14075] interacts with 1 human partners:{P16118}

10077 Pathogen[ POC206] interacts with 2 human partners:{O60825;P16118}

10078 [Cluster 1613]GO:0072303+P biological\_process [name] positive regulation of glomerular metanephric mesangial cell proliferation [def] "Any process that increases the frequency, rate or extent of metanephric glomerular mesangial cell proliferation." [GOC

10079 Pathogen[ Q2Q067] interacts with 1 human partners:{P18146}

10080 Pathogen[ POC214] interacts with 1 human partners:{P18146}

10081 Pathogen[ P03346] interacts with 1 human partners:{P18146}

10082 Pathogen[ Q85601] interacts with 1 human partners:{P18146}

10083 Pathogen[ P03383] interacts with 1 human partners:{P18146}

10084 Pathogen[ P03410] interacts with 1 human partners:{P18146}

10085 Pathogen[ P14075] interacts with 1 human partners:{P18146}

10086 Pathogen[ POC206] interacts with 1 human partners:{P18146}

10087 Pathogen[ P03363] interacts with 1 human partners:{P18146}

10088 [Cluster 1614]GO:0002687+P biological\_process [name] positive regulation of leukocyte migration [def] "Any process that activates or increases the frequency, rate, or extent of leukocyte migration." [GOC

10089 Pathogen[ P03346] interacts with 1 human partners:{Q5JRA6}

10090 Pathogen[ P14079] interacts with 1 human partners:{Q5JRA6}

10091 Pathogen[ P03410] interacts with 1 human partners:{Q5JRA6}

10092 Pathogen[ POC206] interacts with 1 human partners:{Q5JRA6}

10093 [Cluster 1615]GO:0043405+P biological\_process [name] regulation of MAP kinase activity [def] "Any process that modulates the frequency, rate or extent of MAP kinase activity." [GOC

10094 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96RU7}

10095 Pathogen[ POC214] interacts with 1 human partners:{Q96RU7}

10096 Pathogen[ P03346] interacts with 1 human partners:{Q96RU7}

10097 Pathogen[ Q85601] interacts with 1 human partners:{Q96RU7}

10098 Pathogen[ P14079] interacts with 1 human partners:{Q96RU7}

10099 Pathogen[ P03383] interacts with 2 human partners:{Q9NYV4;Q96RU7}

10100 Pathogen[ P03410] interacts with 1 human partners:{Q96RU7}

10101 Pathogen[ P14075] interacts with 2 human partners:{Q96RU7;Q9NYV4}

10102 Pathogen[ POC206] interacts with 1 human partners:{Q96RU7}

10103 [Cluster 1616]GO:2000820+P biological\_process [name] negative regulation of transcription from RNA polymerase II promoter involved in smooth muscle cell differentiation [def] "Any negative regulation of transcription from RNA polymerase II promoter that is involved in smooth muscle cell differentiation." [GOC

10104 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9Y5J3}

10105 Pathogen[ POC214] interacts with 1 human partners:{Q9Y5J3}

10106 Pathogen[ P03346] interacts with 1 human partners:{Q9Y5J3}

10107 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y5J3}

10108 Pathogen[ P14079] interacts with 1 human partners:{Q9Y5J3}

10109 Pathogen[ P03410] interacts with 1 human partners:{Q9Y5J3}

10110 Pathogen[ POC206] interacts with 1 human partners:{Q9Y5J3}

10111 Pathogen[ P03363] interacts with 1 human partners:{Q9Y5J3}

10112 [Cluster 1617]GO:0003326+P biological\_process [name] pancreatic A cell fate commitment [def] "The commitment of a cell to a pancreatic A cell and its capacity to differentiate into a pancreatic A cell. A pancreatic A cell is a cell in the pancreas that secretes glucagon." [GOC

10113 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13562}

10114 Pathogen[ P03346] interacts with 2 human partners:{O95096;Q13562}

10115 Pathogen[ Q85601] interacts with 1 human partners:{Q13562}

10116 Pathogen[ POC206] interacts with 1 human partners:{Q13562}

10117 [Cluster 1618]GO:0032581+P biological\_process [name] ER-dependent peroxisome organization [def] "A process of peroxisome organization in which assembly or arrangement of constituent parts takes place in the endoplasmic reticulum." [GOC

10118 Pathogen[ P14079] interacts with 1 human partners:{Q9Y5Y5}

10119 Pathogen[ P03410] interacts with 1 human partners:{Q9Y5Y5}

10120 [Cluster 1619]GO:0048866+P biological\_process [name] stem cell fate specification [def] "The process in which a cell becomes capable of differentiating autonomously into a stem cell in an environment that is neutral with respect to the developmental pathway. Upon specification, the cell fate can be reversed." [CL

10121 Pathogen[ P03346] interacts with 1 human partners:{P35713}

10122 [Cluster 1620]GO:0006425+P biological\_process [name] glutaminyl-tRNA aminoacylation [def] "The process of coupling glutamine to glutaminyl-tRNA, catalyzed by glutaminyl-tRNA synthetase. In tRNA aminoacylation, the amino acid is first activated by linkage to AMP and then transferred to either the 2'- or the 3'-hydroxyl group of the 3'-adenosine residue of the tRNA." [GOC

10123 Pathogen[ POC214] interacts with 1 human partners:{P47897}

10124 Pathogen[ Q85601] interacts with 1 human partners:{P47897}

10125 Pathogen[ P14079] interacts with 1 human partners:{P47897}

10126 Pathogen[ P03410] interacts with 1 human partners:{P47897}

10127 Pathogen[ P0C206] interacts with 1 human partners:{P47897}

10128 Pathogen[ P03363] interacts with 1 human partners:{P47897}

10129 [Cluster 1621]GO:0061056+P biological\_process [name] sclerotome development [def] "The progression of the sclerotome over time, from its initial formation to the mature structure. The sclerotome is the portion of the somite that will give rise to a vertebra." [GOC

10130 Pathogen[ P03346] interacts with 1 human partners:{P15863}

10131 [Cluster 1622]GO:0000088+P biological\_process [name] mitotic prophase [def] "Prophase occurring as part of mitosis. Prophase is the part of nuclear division in which, canonically, chromosomes condense and the two daughter centrioles and their asters migrate toward the poles of the cell. Mitosis is the cell cycle process in which, canonically, the nucleus of a eukaryotic cell divides to produce two daughter nuclei whose chromosome complement is identical to that of the mother cell." [GOC

10132 Pathogen[ P0C214] interacts with 1 human partners:{Q9BQQ3}

10133 Pathogen[ P03346] interacts with 1 human partners:{Q9BQQ3}

10134 Pathogen[ Q85601] interacts with 1 human partners:{Q9BQQ3}

10135 Pathogen[ P14079] interacts with 1 human partners:{Q9BQQ3}

10136 Pathogen[ P03410] interacts with 1 human partners:{Q9BQQ3}

10137 Pathogen[ P0C206] interacts with 1 human partners:{Q9BQQ3}

10138 [Cluster 1623]GO:0016072+P biological\_process [name] rRNA metabolic process [def] "The chemical reactions and pathways involving rRNA, ribosomal RNA, a structural constituent of ribosomes." [ISBN

10139 Pathogen[ P0C214] interacts with 1 human partners:{Q9BYG3}

10140 Pathogen[ P03346] interacts with 1 human partners:{Q9BYG3}

10141 Pathogen[ P14079] interacts with 1 human partners:{Q9BYG3}

10142 Pathogen[ P03410] interacts with 1 human partners:{Q9BYG3}

10143 Pathogen[ P0C206] interacts with 1 human partners:{Q9BYG3}

10144 Pathogen[ P03363] interacts with 1 human partners:{Q9BYG3}

10145 [Cluster 1624]GO:0060623+P biological\_process [name] regulation of chromosome condensation [def] "Any process that modulates the rate, frequency, or extent of chromosome condensation, the progressive compaction of dispersed interphase chromatin into threadlike chromosomes prior to mitotic or meiotic nuclear division, or during apoptosis, in eukaryotic cells." [GOC

10146 Pathogen[ Q2Q067] interacts with 1 human partners:{P14635}

10147 Pathogen[ P0C214] interacts with 1 human partners:{P14635}

10148 Pathogen[ P03346] interacts with 1 human partners:{P14635}

10149 Pathogen[ Q85601] interacts with 1 human partners:{P14635}

10150 Pathogen[ P14079] interacts with 1 human partners:{P14635}

10151 Pathogen[ P03383] interacts with 1 human partners:{P14635}

10152 Pathogen[ P03410] interacts with 1 human partners:{P14635}

10153 Pathogen[ P14075] interacts with 1 human partners:{P14635}

10154 Pathogen[ P0C206] interacts with 1 human partners:{P14635}

10155 [Cluster 1625]GO:2001240+P biological\_process [name] negative regulation of extrinsic apoptotic signaling pathway in absence of ligand [def] "Any process that stops, prevents or reduces the frequency, rate or extent of extrinsic apoptotic signaling pathway in absence of ligand." [GOC

10156 Pathogen[ P03346] interacts with 1 human partners:{Q07820}

10157 Pathogen[ P03363] interacts with 1 human partners:{Q07820}

10158 [Cluster 1626]GO:0043277+P biological\_process [name] apoptotic cell clearance [def] "The recognition and removal of an apoptotic cell by a neighboring cell or by a phagocyte." [GOC

10159 Pathogen[ Q2Q067] interacts with 1 human partners:{P21980}

10160 Pathogen[ P0C214] interacts with 1 human partners:{P21980}

10161 Pathogen[ P03346] interacts with 1 human partners:{P21980}

10162 Pathogen[ Q85601] interacts with 1 human partners:{P21980}

10163 Pathogen[ P14079] interacts with 1 human partners:{P21980}

10164 Pathogen[ P03383] interacts with 1 human partners:{P21980}

10165 Pathogen[ P03410] interacts with 1 human partners:{P21980}

10166 Pathogen[ P14075] interacts with 1 human partners:{P21980}

10167 Pathogen[ P0C206] interacts with 1 human partners:{P21980}

10168 [Cluster 1627]GO:0046479+P biological\_process [name] glycosphingolipid catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of glycosphingolipid, a compound with residues of sphingoid and at least one monosaccharide." [ISBN

10169 Pathogen[ P14079] interacts with 1 human partners:{P06280}

10170 [Cluster 1628]GO:0048664+P biological\_process [name] neuron fate determination [def] "The process in which a cell becomes capable of differentiating autonomously into a neuron regardless of its environment\_ upon determination, the cell fate cannot be reversed." [GOC

10171 Pathogen[ Q2Q067] interacts with 1 human partners:{P60953}

10172 Pathogen[ P0C214] interacts with 1 human partners:{P60953}

10173 Pathogen[ P03346] interacts with 2 human partners:{P52954;P60953}

10174 Pathogen[ Q85601] interacts with 1 human partners:{P60953}

10175 Pathogen[ P03383] interacts with 1 human partners:{P60953}

10176 Pathogen[ P03410] interacts with 1 human partners:{P60953}

10177 Pathogen[ P14075] interacts with 1 human partners:{P60953}

10178 Pathogen[ P0C206] interacts with 1 human partners:{P60953}

10179 Pathogen[ P03363] interacts with 1 human partners:{P60953}

10180 [Cluster 1629]GO:0045799+P biological\_process [name] positive regulation of chromatin assembly or disassembly [def] "Any process that activates or increases the frequency, rate or extent of chromatin assembly or disassembly." [GOC

10181 Pathogen[ P03346] interacts with 1 human partners:{P17542}

10182 [Cluster 1630]GO:0031579+P biological\_process [name] membrane raft organization [def] "A process that is carried out at the cellular level which results in the assembly, arrangement of constituent parts, or disassembly of membrane rafts, small (10-200 nm), heterogeneous, highly dynamic, sterol- and sphingolipid-enriched membrane domains that compartmentalize cellular processes." [GOC

10183 Pathogen[ Q2Q067] interacts with 1 human partners:{Q12959}

10184 Pathogen[ P0C214] interacts with 1 human partners:{Q12959}

10185 Pathogen[ P03346] interacts with 1 human partners:{Q12959}

10186 Pathogen[ Q85601] interacts with 1 human partners:{Q12959}

10187 Pathogen[ P03410] interacts with 1 human partners:{Q12959}

10188 Pathogen[ P0C206] interacts with 1 human partners:{Q12959}

10189 Pathogen[ P03363] interacts with 1 human partners:{Q12959}

10190 [Cluster 1631]GO:0051604+P biological\_process [name] protein maturation [def] "Any process leading to the attainment of the full functional capacity of a protein." [GOC

10191 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UNE7}

10192 Pathogen[ P0C214] interacts with 2 human partners:{P10809;Q9UNE7}

10193 Pathogen[ P03346] interacts with 1 human partners:{Q9UNE7}

10194 Pathogen[ Q85601] interacts with 1 human partners:{Q9UNE7}

10195 Pathogen[ P14079] interacts with 2 human partners:{P20933;Q96S06}

10196 Pathogen[ P03410] interacts with 3 human partners:{Q9UNE7;Q96S06;P20933}

10197 Pathogen[ P0C206] interacts with 2 human partners:{Q9UNE7;Q96S06}

10198 Pathogen[ P03363] interacts with 1 human partners:{Q9UNE7}

10199 [Cluster 1632]GO:0021885+P biological\_process [name] forebrain cell migration [def] "The orderly movement of a cell from one site to another at least one of which is located in the forebrain." [GO\_REF

10200 Pathogen[ Q2Q067] interacts with 1 human partners:{Q04743}

10201 Pathogen[ P03346] interacts with 1 human partners:{Q04743}

10202 Pathogen[ P14079] interacts with 1 human partners:{Q04743}

10203 Pathogen[ P03410] interacts with 1 human partners:{Q04743}

10204 Pathogen[ P0C206] interacts with 1 human partners:{Q04743}

10205 Pathogen[ P03363] interacts with 1 human partners:{Q04743}

10206 [Cluster 1633]GO:0051835+P biological\_process [name] positive regulation of synapse structural plasticity [def] "Any process that activates, maintains or increases the frequency, rate or extent of synaptic structural plasticity." [GOC

10207 Pathogen[ P03346] interacts with 1 human partners:{Q14CM0}

10208 Pathogen[ P03410] interacts with 1 human partners:{Q14CM0}

10209 Pathogen[ P03363] interacts with 1 human partners:{Q14CM0}

10210 [Cluster 1634]GO:0007084+P biological\_process [name] mitotic nuclear envelope reassembly [def] "The cell cycle process that results in reformation of the nuclear envelope during mitotic cell division." [GOC

10211 Pathogen[ Q2Q067] interacts with 1 human partners:{Q86XL3}

10212 Pathogen[ P0C214] interacts with 1 human partners:{Q86XL3}

10213 Pathogen[ P03346] interacts with 1 human partners:{Q86XL3}

10214 Pathogen[ Q85601] interacts with 1 human partners:{Q86XL3}

10215 Pathogen[ P14079] interacts with 1 human partners:{Q86XL3}

10216 Pathogen[ P03410] interacts with 1 human partners:{Q86XL3}

10217 Pathogen[ P0C206] interacts with 1 human partners:{Q86XL3}

10218 Pathogen[ P03363] interacts with 1 human partners:{Q86XL3}

10219 [Cluster 1635]GO:0061001+P biological\_process [name] regulation of dendritic spine morphogenesis [def] "Any process that modulates the rate, frequency, or extent of dendritic spine morphogenesis, the process in which the anatomical structures of a dendritic spine are generated and organized. A dendritic spine is a protrusion from a dendrite and a specialized subcellular compartment involved in synaptic transmission." [GOC

10220 Pathogen[ P03346] interacts with 1 human partners:{Q9C0H9}

10221 Pathogen[ P14079] interacts with 2 human partners:{Q9C0H9;Q15078}

10222 Pathogen[ P03383] interacts with 1 human partners:{Q9C0H9}

10223 Pathogen[ P03410] interacts with 1 human partners:{Q9C0H9}

10224 Pathogen[ P14075] interacts with 1 human partners:{Q9C0H9}

10225 Pathogen[ P0C206] interacts with 1 human partners:{Q9C0H9}

10226 Pathogen[ P03363] interacts with 1 human partners:{Q9C0H9}

10227 [Cluster 1636]GO:0032218+P biological\_process [name] riboflavin transport [def] "The directed movement of riboflavin into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore. Riboflavin (vitamin B2) is a water-soluble B-complex vitamin, converted in the cell to FMN and FAD, cofactors required for the function of flavoproteins." [GOC

10228 Pathogen[ P14079] interacts with 3 human partners:{Q9NWF4;Q9HAB3;Q9NQ40}

10229 Pathogen[ P03410] interacts with 3 human partners:{Q9HAB3;Q9NQ40;Q9NWF4}



10230 [Cluster 1637]GO:0070085+P biological\_process [name] glycosylation [def] "The covalent attachment of a glycosyl residue to a substrate molecule." [GOC

10231 Pathogen[ P03346] interacts with 1 human partners:{Q9Y2V7}

10232 Pathogen[ P14079] interacts with 2 human partners:{Q9Y2V7;O75503}

10233 Pathogen[ P03410] interacts with 2 human partners:{Q9Y2V7;O75503}

10234 Pathogen[ POC206] interacts with 1 human partners:{Q9Y2V7}

10235 [Cluster 1638]GO:0006044+P biological\_process [name] N-acetylglucosamine metabolic process [def] "The chemical reactions and pathways involving N-acetylglucosamine. The D isomer is a common structural unit of glycoproteins in plants, bacteria and animals\_ it is often the terminal sugar of an oligosaccharide group of a glycoprotein." [ISBN

10236 Pathogen[ POC214] interacts with 1 human partners:{Q96EK6}

10237 Pathogen[ P03346] interacts with 1 human partners:{Q8TDQ7}

10238 Pathogen[ Q85601] interacts with 1 human partners:{Q96EK6}

10239 Pathogen[ P14079] interacts with 7 human partners:{Q9UJ70;Q8TDQ7;P51606;Q9Y303;O60502;P46926;Q96EK6}

10240 Pathogen[ P03410] interacts with 5 human partners:{Q8TDQ7;P51606;O60502;Q96EK6;P46926}

10241 Pathogen[ P14075] interacts with 1 human partners:{Q96EK6}

10242 Pathogen[ POC206] interacts with 3 human partners:{Q8TDQ7;Q96EK6;P46926}

10243 Pathogen[ P03363] interacts with 1 human partners:{Q8TDQ7}

10244 [Cluster 1639]GO:0009584+P biological\_process [name] detection of visible light [def] "The series of events in which a visible light stimulus is received by a cell and converted into a molecular signal. A visible light stimulus is electromagnetic radiation that can be perceived visually by an organism\_ for organisms lacking a visual system, this can be defined as light with a wavelength within the range 380 to 780 nm." [GOC

10245 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9GZR5}

10246 Pathogen[ POC214] interacts with 1 human partners:{Q9GZR5}

10247 Pathogen[ Q85601] interacts with 1 human partners:{Q9GZR5}

10248 Pathogen[ P14079] interacts with 1 human partners:{Q9GZR5}

10249 Pathogen[ P03383] interacts with 1 human partners:{Q9GZR5}

10250 Pathogen[ P03410] interacts with 1 human partners:{Q9GZR5}

10251 Pathogen[ P14075] interacts with 1 human partners:{Q9GZR5}

10252 Pathogen[ POC206] interacts with 1 human partners:{Q9GZR5}

10253 [Cluster 1640]GO:0032740+P biological\_process [name] positive regulation of interleukin-17 production [def] "Any process that activates or increases the frequency, rate, or extent of production of any member of the interleukin-17 family of cytokines." [GOC

10254 Pathogen[ P14079] interacts with 1 human partners:{Q99836}

10255 [Cluster 1641]GO:0051881+P biological\_process [name] regulation of mitochondrial membrane potential [def] "Any process that modulates the establishment or extent of the mitochondrial membrane potential, the electric potential existing across the mitochondrial membrane arising from charges in the membrane itself and from the charges present in the media on either side of the membrane." [GOC

10256 Pathogen[ Q2Q067] interacts with 1 human partners:{Q7Z2X4}

10257 Pathogen[ POC214] interacts with 2 human partners:{P28331;Q7Z2X4}

10258 Pathogen[ P03346] interacts with 2 human partners:{Q7Z2X4;Q8N0X7}

10259 Pathogen[ Q85601] interacts with 2 human partners:{Q7Z2X4;Q8N0X7}

10260 Pathogen[ P14079] interacts with 2 human partners:{Q8N0X7;Q7Z2X4}

10261 Pathogen[ P03410] interacts with 2 human partners:{Q8N0X7;Q7Z2X4}

10262 Pathogen[ POC206] interacts with 2 human partners:{Q8N0X7;Q7Z2X4}

10263 Pathogen[ P03363] interacts with 1 human partners:{Q8N0X7}

10264 [Cluster 1642]GO:0003195+P biological\_process [name] tricuspid valve formation [def] "The developmental process pertaining to the initial formation of the tricuspid valve from unspecified parts. This process begins with the specific processes that contribute to the appearance of the discrete structure and ends when the structural rudiment is recognizable." [GOC

10265 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8IX07}

10266 Pathogen[ POC214] interacts with 1 human partners:{Q8IX07}

10267 Pathogen[ P03346] interacts with 1 human partners:{Q8IX07}

10268 Pathogen[ Q85601] interacts with 1 human partners:{Q8IX07}

10269 Pathogen[ P14079] interacts with 1 human partners:{Q8IX07}

10270 Pathogen[ P03410] interacts with 1 human partners:{Q8IX07}

10271 Pathogen[ POC206] interacts with 1 human partners:{Q8IX07}

10272 [Cluster 1643]GO:0090310+P biological\_process [name] negative regulation of methylation-dependent chromatin silencing [def] "Any process that decreases the rate, frequency, or extent of the repression of transcription by methylation of DNA, leading to the formation of heterochromatin." [GOC

10273 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9GZX7}

10274 Pathogen[ POC214] interacts with 1 human partners:{Q9GZX7}

10275 Pathogen[ Q85601] interacts with 1 human partners:{Q9GZX7}

10276 Pathogen[ P14079] interacts with 2 human partners:{P41238;Q9GZX7}

10277 Pathogen[ P03410] interacts with 2 human partners:{P41238;Q9GZX7}

10278 Pathogen[ POC206] interacts with 2 human partners:{Q9GZX7;P41238}

10279 [Cluster 1644]GO:0001100+P biological\_process [name] negative regulation of exit from mitosis [def] "Any process involved in the inhibition of progression from anaphase/telophase (high mitotic CDK activity) to G1 (low mitotic CDK activity)." [GOC

10280 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9H4X1}

10281 Pathogen[ P0C214] interacts with 1 human partners:{Q9H4X1}

10282 Pathogen[ P03346] interacts with 1 human partners:{Q9H4X1}

10283 Pathogen[ Q85601] interacts with 1 human partners:{Q9H4X1}

10284 Pathogen[ P03383] interacts with 1 human partners:{Q9H4X1}

10285 Pathogen[ P03410] interacts with 1 human partners:{Q9H4X1}

10286 Pathogen[ P14075] interacts with 1 human partners:{Q9H4X1}

10287 Pathogen[ P0C206] interacts with 1 human partners:{Q9H4X1}

10288 Pathogen[ P03363] interacts with 1 human partners:{Q9H4X1}

10289 [Cluster 1645]GO:0009062+P biological\_process [name] fatty acid catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of a fatty acid, any of the aliphatic monocarboxylic acids that can be liberated by hydrolysis from naturally occurring fats and oils. Fatty acids are predominantly straight-chain acids of 4 to 24 carbon atoms, which may be saturated or unsaturated\_ branched fatty acids and hydroxy fatty acids also occur, and very long chain acids of over 30 carbons are found in waxes." [GOC

10290 Pathogen[ Q2Q067] interacts with 1 human partners:{Q14693}

10291 Pathogen[ P0C214] interacts with 2 human partners:{O00154;Q14693}

10292 Pathogen[ P03346] interacts with 1 human partners:{Q14693}

10293 Pathogen[ Q85601] interacts with 1 human partners:{Q14693}

10294 Pathogen[ P14079] interacts with 2 human partners:{Q14693;O00519}

10295 Pathogen[ P03383] interacts with 1 human partners:{Q14693}

10296 Pathogen[ P03410] interacts with 3 human partners:{O00519;Q14693;O00154}

10297 Pathogen[ P14075] interacts with 1 human partners:{Q14693}

10298 Pathogen[ P0C206] interacts with 1 human partners:{Q14693}

10299 [Cluster 1646]GO:0050820+P biological\_process [name] positive regulation of coagulation [def] "Any process that activates or increases the frequency, rate or extent of coagulation." [GOC

10300 Pathogen[ P0C214] interacts with 1 human partners:{P05121}

10301 Pathogen[ Q85601] interacts with 1 human partners:{P05121}

10302 Pathogen[ P03410] interacts with 1 human partners:{P05121}

10303 Pathogen[ P0C206] interacts with 1 human partners:{P05121}

10304 [Cluster 1647]GO:0019285+P biological\_process [name] glycine betaine biosynthetic process from choline [def] "The chemical reactions and pathways resulting in the formation of betaine (N-trimethylglycine) from the oxidation of choline." [GOC

10305 Pathogen[ Q2Q067] interacts with 1 human partners:{P49419}

10306 Pathogen[ P0C214] interacts with 1 human partners:{P49419}

10307 Pathogen[ P03346] interacts with 1 human partners:{P49419}

10308 Pathogen[ Q85601] interacts with 1 human partners:{P49419}

10309 Pathogen[ P03383] interacts with 1 human partners:{P49419}

10310 Pathogen[ P03410] interacts with 1 human partners:{P49419}

10311 Pathogen[ P14075] interacts with 1 human partners:{P49419}

10312 Pathogen[ P0C206] interacts with 1 human partners:{P49419}

10313 Pathogen[ P03363] interacts with 1 human partners:{P49419}

10314 [Cluster 1648]GO:0097186+P biological\_process [name] amelogenesis [def] "The process whose specific outcome is the formation of tooth enamel, occurring in two stages

10315 Pathogen[ P03410] interacts with 1 human partners:{Q9NRM1}

10316 [Cluster 1649]GO:0032707+P biological\_process [name] negative regulation of interleukin-23 production [def] "Any process that stops, prevents, or reduces the frequency, rate, or extent of interleukin-23 production." [GOC

10317 Pathogen[ Q2Q067] interacts with 1 human partners:{P63000}

10318 Pathogen[ P0C214] interacts with 1 human partners:{P63000}

10319 Pathogen[ P03346] interacts with 1 human partners:{P63000}

10320 Pathogen[ Q85601] interacts with 1 human partners:{P63000}

10321 Pathogen[ P03383] interacts with 1 human partners:{P63000}

10322 Pathogen[ P03410] interacts with 1 human partners:{P63000}

10323 Pathogen[ P14075] interacts with 1 human partners:{P63000}

10324 Pathogen[ P0C206] interacts with 1 human partners:{P63000}

10325 Pathogen[ P03363] interacts with 1 human partners:{P63000}

10326 [Cluster 1650]GO:0043241+P biological\_process [name] protein complex disassembly [def] "The disaggregation of a protein complex into its constituent components. Protein complexes may have other associated non-protein prosthetic groups, such as nucleic acids, metal ions or carbohydrate groups." [GOC

10327 Pathogen[ P14079] interacts with 1 human partners:{Q9NX09}

10328 Pathogen[ P03410] interacts with 1 human partners:{Q9NX09}

10329 [Cluster 1651]GO:0006801+P biological\_process [name] superoxide metabolic process [def] "The chemical reactions and pathways involving superoxide, the superoxide anion O2- (superoxide free radical), or any compound containing this species." [CHEBI

10330 Pathogen[ Q2Q067] interacts with 1 human partners:{O14618}

10331 Pathogen[ P0C214] interacts with 3 human partners:{P08294;O14618;P35520}

10332 Pathogen[ P03346] interacts with 3 human partners:{Q86UR1;O14618;Q5TCZ1}

10333 Pathogen[ Q85601] interacts with 1 human partners:{O14618}

10334 Pathogen[ P14079] interacts with 3 human partners:{P13498;Q5TCZ1;O14618}

10335 Pathogen[ P03410] interacts with 3 human partners:{Q86UR1;Q5TCZ1;O14618}

10336 Pathogen[ P0C206] interacts with 2 human partners:{Q5TCZ1;O14618}

10337 Pathogen[ P03363] interacts with 3 human partners:{Q86UR1;Q5TCZ1;O14618}

10338 [Cluster 1652]GO:0045175+P biological\_process [name] basal protein localization [def] "Any process in which a protein is transported to, or maintained in, basal regions of the cell." [GOC

10339 Pathogen[ P03346] interacts with 1 human partners:{Q96RT1}

10340 Pathogen[ Q85601] interacts with 1 human partners:{Q96RT1}

10341 Pathogen[ P14079] interacts with 1 human partners:{Q96RT1}

10342 Pathogen[ P03410] interacts with 1 human partners:{Q96RT1}

10343 Pathogen[ P0C206] interacts with 1 human partners:{Q96RT1}

10344 Pathogen[ P03363] interacts with 1 human partners:{Q96RT1}

10345 [Cluster 1653]GO:0034382+P biological\_process [name] chylomicron remnant clearance [def] "The process in which a chylomicron remnant is removed from the blood via receptor-mediated endocytosis into liver cells and its constituent parts degraded." [GOC

10346 Pathogen[ P14079] interacts with 1 human partners:{Q96S06}

10347 Pathogen[ P03410] interacts with 1 human partners:{Q96S06}

10348 Pathogen[ P0C206] interacts with 1 human partners:{Q96S06}

10349 [Cluster 1654]GO:0090101+P biological\_process [name] negative regulation of transmembrane receptor protein serine/threonine kinase signaling pathway [def] "Any process that decreases the rate, frequency, or extent of the series of molecular signals generated as a consequence of a transmembrane receptor serine/threonine kinase binding to its physiological ligand." [GOC

10350 Pathogen[ P0C214] interacts with 1 human partners:{O95633}

10351 Pathogen[ P03346] interacts with 1 human partners:{O95633}

10352 Pathogen[ P0C206] interacts with 1 human partners:{O95633}

10353 [Cluster 1655]GO:0006922+P biological\_process [name] cleavage of lamin [def] "The proteolytic degradation of lamins during apoptosis, leading to the irreversible breakdown of the nuclear lamina." [GOC

10354 Pathogen[ P03346] interacts with 1 human partners:{P10144}

10355 Pathogen[ Q85601] interacts with 1 human partners:{P10144}

10356 Pathogen[ P14079] interacts with 1 human partners:{P10144}

10357 Pathogen[ P03410] interacts with 1 human partners:{P10144}

10358 Pathogen[ P0C206] interacts with 1 human partners:{P10144}

10359 Pathogen[ P03363] interacts with 1 human partners:{P10144}

10360 [Cluster 1656]GO:0017144+P biological\_process [name] drug metabolic process [def] "The chemical reactions and pathways involving a drug, a substance used in the diagnosis, treatment or prevention of a disease\_ as used here antibiotic substances (see antibiotic metabolism) are considered to be drugs, even if not used in medical or veterinary practice." [GOC

10361 Pathogen[ P0C214] interacts with 3 human partners:{P35558;P49902;P07327}

10362 Pathogen[ P14079] interacts with 1 human partners:{P49902}

10363 Pathogen[ P03410] interacts with 1 human partners:{P49902}

10364 Pathogen[ P14075] interacts with 1 human partners:{P49902}

10365 Pathogen[ P0C206] interacts with 1 human partners:{P49902}

10366 [Cluster 1657]GO:0016126+P biological\_process [name] sterol biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of sterols, steroids with one or more hydroxyl groups and a hydrocarbon side-chain in the molecule." [GOC

10367 Pathogen[ Q2Q067] interacts with 1 human partners:{P14324}

10368 Pathogen[ P0C214] interacts with 3 human partners:{Q13907;Q9BXS1;P14324}

10369 Pathogen[ P03346] interacts with 1 human partners:{P14324}

10370 Pathogen[ Q85601] interacts with 2 human partners:{P14324;Q13907}

10371 Pathogen[ P14079] interacts with 7 human partners:{Q9BXS1;Q9Y5U4;Q13907;P14324;Q9UKR5;P53602;O15503}

10372 Pathogen[ P03383] interacts with 1 human partners:{P14324}

10373 Pathogen[ P03410] interacts with 6 human partners:{P53602;Q9Y5U4;Q13907;O15503;P14324;Q9BXS1}

10374 Pathogen[ P14075] interacts with 1 human partners:{P14324}

10375 Pathogen[ P0C206] interacts with 3 human partners:{P14324;Q13907;Q9BXS1}

10376 [Cluster 1658]GO:2000249+P biological\_process [name] regulation of actin cytoskeleton reorganization [def] "Any process that modulates the frequency, rate or extent of actin cytoskeleton reorganization." [GOC

10377 Pathogen[ P03346] interacts with 1 human partners:{Q9NRX4}

10378 Pathogen[ P14079] interacts with 1 human partners:{Q9NRX4}

10379 Pathogen[ P03410] interacts with 1 human partners:{Q9NRX4}

10380 Pathogen[ P0C206] interacts with 1 human partners:{Q9NRX4}

10381 [Cluster 1659]GO:0033280+P biological\_process [name] response to vitamin D [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a vitamin D stimulus." [GOC

10382 Pathogen[ P03346] interacts with 1 human partners:{P55273}

10383 Pathogen[ Q85601] interacts with 1 human partners:{P55273}

10384 Pathogen[ P14079] interacts with 1 human partners:{P55273}

10385 Pathogen[ P03410] interacts with 1 human partners:{P55273}

10386 Pathogen[ P0C206] interacts with 1 human partners:{P55273}

10387 [Cluster 1660]GO:0043497+P biological\_process [name] regulation of protein heterodimerization activity [def] "Any process that modulates the frequency, rate or extent of protein heterodimerization, interacting selectively with a nonidentical

protein to form a heterodimer." [GOC

10388 Pathogen[ Q2Q067] interacts with 1 human partners:{P60953}

10389 Pathogen[ POC214] interacts with 1 human partners:{P60953}

10390 Pathogen[ P03346] interacts with 1 human partners:{P60953}

10391 Pathogen[ Q85601] interacts with 1 human partners:{P60953}

10392 Pathogen[ P03383] interacts with 1 human partners:{P60953}

10393 Pathogen[ P03410] interacts with 1 human partners:{P60953}

10394 Pathogen[ P14075] interacts with 1 human partners:{P60953}

10395 Pathogen[ POC206] interacts with 1 human partners:{P60953}

10396 Pathogen[ P03363] interacts with 1 human partners:{P60953}

10397 [Cluster 1661]GO:0019276+P biological\_process [name] UDP-N-acetylgalactosamine metabolic process [def] "The chemical reactions and pathways involving UDP-N-acetylgalactosamine, a substance composed of N-acetylgalactosamine, a common structural unit of oligosaccharides, in glycosidic linkage with uridine diphosphate." [GOC

10398 Pathogen[ P03410] interacts with 1 human partners:{Q8NHY0}

10399 [Cluster 1662]GO:0002093+P biological\_process [name] auditory receptor cell morphogenesis [def] "Any process that alters the size or shape of an auditory receptor cell." [GOC

10400 Pathogen[ Q2Q067] interacts with 1 human partners:{P63000}

10401 Pathogen[ POC214] interacts with 1 human partners:{P63000}

10402 Pathogen[ P03346] interacts with 1 human partners:{P63000}

10403 Pathogen[ Q85601] interacts with 1 human partners:{P63000}

10404 Pathogen[ P03383] interacts with 1 human partners:{P63000}

10405 Pathogen[ P03410] interacts with 1 human partners:{P63000}

10406 Pathogen[ P14075] interacts with 1 human partners:{P63000}

10407 Pathogen[ POC206] interacts with 1 human partners:{P63000}

10408 Pathogen[ P03363] interacts with 1 human partners:{P63000}

10409 [Cluster 1663]GO:0010960+P biological\_process [name] magnesium ion homeostasis [def] "Any process involved in the maintenance of an internal steady state of magnesium ions within an organism or cell." [GOC

10410 Pathogen[ P03346] interacts with 1 human partners:{Q92481}

10411 [Cluster 1664]GO:0051054+P biological\_process [name] positive regulation of DNA metabolic process [def] "Any process that activates or increases the frequency, rate or extent of the chemical reactions and pathways involving DNA." [GOC

10412 Pathogen[ Q2Q067] interacts with 1 human partners:{P07737}

10413 Pathogen[ P03346] interacts with 2 human partners:{Q86SE8;P07737}

10414 Pathogen[ Q85601] interacts with 2 human partners:{Q86SE8;P07737}

10415 Pathogen[ P14079] interacts with 2 human partners:{P07737;O60502}

10416 Pathogen[ P03383] interacts with 1 human partners:{P07737}

10417 Pathogen[ P03410] interacts with 3 human partners:{Q86SE8;O60502;P07737}

10418 Pathogen[ P14075] interacts with 1 human partners:{P07737}

10419 Pathogen[ POC206] interacts with 2 human partners:{Q86SE8;P07737}

10420 Pathogen[ P03363] interacts with 2 human partners:{Q86SE8;P07737}

10421 [Cluster 1665]GO:0006431+P biological\_process [name] methionyl-tRNA aminoacylation [def] "The process of coupling methionine to methionyl-tRNA, catalyzed by methionyl-tRNA synthetase. In tRNA aminoacylation, the amino acid is first activated by linkage to AMP and then transferred to either the 2'- or the 3'-hydroxyl group of the 3'-adenosine residue of the tRNA." [GOC

10422 Pathogen[ POC214] interacts with 2 human partners:{P56192;Q96GW9}

10423 Pathogen[ P14079] interacts with 2 human partners:{Q96GW9;P56192}

10424 Pathogen[ P03383] interacts with 1 human partners:{Q96GW9}

10425 Pathogen[ P03410] interacts with 2 human partners:{P56192;Q96GW9}

10426 Pathogen[ P14075] interacts with 2 human partners:{Q96GW9;P56192}

10427 Pathogen[ POC206] interacts with 2 human partners:{P56192;Q96GW9}

10428 [Cluster 1666]GO:0042471+P biological\_process [name] ear morphogenesis [def] "The process in which the anatomical structures of the ear are generated and organized. The ear is the sense organ in vertebrates that is specialized for the detection of sound, and the maintenance of balance. Includes the outer ear and middle ear, which collect and transmit sound waves\_ and the inner ear, which contains the organs of balance and (except in fish) hearing. Also includes the pinna, the visible part of the outer ear, present in some mammals." [GOC

10429 Pathogen[ P03346] interacts with 1 human partners:{Q9P2D1}

10430 Pathogen[ Q85601] interacts with 1 human partners:{Q9P2D1}

10431 Pathogen[ P14079] interacts with 1 human partners:{Q9P2D1}

10432 Pathogen[ P03410] interacts with 1 human partners:{Q9P2D1}

10433 Pathogen[ POC206] interacts with 1 human partners:{Q9P2D1}

10434 [Cluster 1667]GO:0035407+P biological\_process [name] histone H3-T11 phosphorylation [def] "The modification of histone H3 by the addition of an phosphate group to a threonine residue at position 11 of the histone." [GOC

10435 Pathogen[ Q2Q067] interacts with 1 human partners:{O14757}

10436 Pathogen[ POC214] interacts with 1 human partners:{O14757}

10437 Pathogen[ P03346] interacts with 1 human partners:{O14757}

10438 Pathogen[ Q85601] interacts with 1 human partners:{O14757}

10439 Pathogen[ P03383] interacts with 1 human partners:{O14757}

10440 Pathogen[ P03410] interacts with 1 human partners:{O14757}

10441 Pathogen[ P14075] interacts with 1 human partners:{014757}

10442 Pathogen[ P03363] interacts with 1 human partners:{014757}

10443 [Cluster 1668]GO:1901303+P

10444 Pathogen[ P14079] interacts with 1 human partners:{015503}

10445 Pathogen[ P03410] interacts with 1 human partners:{015503}

10446 [Cluster 1669]GO:0046683+P biological\_process [name] response to organophosphorus [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an organophosphorus stimulus. Organophosphorus is a compound containing phosphorus bound to an organic molecule\_ several organophosphorus compounds are used as insecticides, and they are highly toxic cholinesterase inhibitors." [ISBN

10447 Pathogen[ Q2Q067] interacts with 1 human partners:{P04818}

10448 Pathogen[ POC214] interacts with 1 human partners:{P04818}

10449 Pathogen[ P03346] interacts with 1 human partners:{095361}

10450 Pathogen[ P14079] interacts with 2 human partners:{095361;P04818}

10451 Pathogen[ P03410] interacts with 1 human partners:{P04818}

10452 Pathogen[ POC206] interacts with 2 human partners:{095361;P04818}

10453 [Cluster 1670]GO:0030091+P biological\_process [name] protein repair [def] "The process of restoring a protein to its original state after damage by such things as oxidation or spontaneous decomposition of residues." [GOC

10454 Pathogen[ Q2Q067] interacts with 1 human partners:{P22061}

10455 Pathogen[ POC214] interacts with 2 human partners:{P22061;Q9Y3D2}

10456 Pathogen[ P03346] interacts with 1 human partners:{P22061}

10457 Pathogen[ Q85601] interacts with 1 human partners:{P22061}

10458 Pathogen[ P14079] interacts with 2 human partners:{Q9NZV6;Q9Y3D2}

10459 Pathogen[ P03383] interacts with 1 human partners:{P22061}

10460 Pathogen[ P03410] interacts with 2 human partners:{Q9Y3D2;P22061}

10461 Pathogen[ P14075] interacts with 1 human partners:{P22061}

10462 Pathogen[ POC206] interacts with 3 human partners:{Q9NZV6;P22061;Q9Y3D2}

10463 [Cluster 1671]GO:0072181+P biological\_process [name] mesonephric duct formation [def] "The developmental process pertaining to the initial formation of a mesonephric duct. A mesonephric duct is a tube drains the mesonephros." [GOC

10464 Pathogen[ Q2Q067] interacts with 1 human partners:{P35680}

10465 Pathogen[ P03346] interacts with 1 human partners:{P35680}

10466 Pathogen[ Q85601] interacts with 1 human partners:{P35680}

10467 Pathogen[ P14079] interacts with 1 human partners:{P35680}

10468 Pathogen[ P03410] interacts with 1 human partners:{P35680}

10469 Pathogen[ POC206] interacts with 1 human partners:{P35680}

10470 [Cluster 1672]GO:0006054+P biological\_process [name] N-acetylneuraminate metabolic process [def] "The chemical reactions and pathways involving N-acetylneuraminate, the anion of 5-(acetylamino)-3,5-dideoxy-D-glycero-D-galacto-non-3-ulonic acid." [ISBN

10471 Pathogen[ POC214] interacts with 1 human partners:{Q8NFW8}

10472 Pathogen[ P03346] interacts with 1 human partners:{Q8NFW8}

10473 Pathogen[ P14079] interacts with 1 human partners:{Q8NFW8}

10474 Pathogen[ P03410] interacts with 1 human partners:{Q8NFW8}

10475 Pathogen[ POC206] interacts with 1 human partners:{Q8NFW8}

10476 Pathogen[ P03363] interacts with 1 human partners:{Q8NFW8}

10477 [Cluster 1673]GO:0010557+P biological\_process [name] positive regulation of macromolecule biosynthetic process [def] "Any process that increases the rate, frequency or extent of the chemical reactions and pathways resulting in the formation of a macromolecule, any molecule of high relative molecular mass, the structure of which essentially comprises the multiple repetition of units derived, actually or conceptually, from molecules of low relative molecular mass." [GOC

10478 Pathogen[ P03346] interacts with 1 human partners:{P58546}

10479 [Cluster 1674]GO:0033615+P biological\_process [name] mitochondrial proton-transporting ATP synthase complex assembly [def] "The aggregation, arrangement and bonding together of a proton-transporting ATP synthase in the mitochondrial inner membrane." [GOC

10480 Pathogen[ P14079] interacts with 2 human partners:{Q15070;Q9BUB7}

10481 Pathogen[ P03410] interacts with 2 human partners:{Q9BUB7;Q15070}

10482 Pathogen[ P14075] interacts with 2 human partners:{Q15070;Q9BUB7}

10483 Pathogen[ POC206] interacts with 2 human partners:{Q9BUB7;Q15070}

10484 [Cluster 1675]GO:0010610+P biological\_process [name] regulation of mRNA stability involved in response to stress [def] "Any process that modulates the propensity of mRNA molecules to degradation that is part of a change in state or activity of a cell as a result of an exogenous disturbance." [GOC

10485 Pathogen[ POC214] interacts with 1 human partners:{Q9NZI8}

10486 Pathogen[ P03346] interacts with 1 human partners:{Q9NZI8}

10487 Pathogen[ P03363] interacts with 1 human partners:{Q9NZI8}

10488 [Cluster 1676]GO:0033081+P biological\_process [name] regulation of T cell differentiation in thymus [def] "Any process that modulates the frequency, rate or extent of T cell differentiation in the thymus." [GOC

10489 Pathogen[ P14079] interacts with 1 human partners:{096005}

10490 Pathogen[ P03410] interacts with 1 human partners:{096005}

10491 [Cluster 1677]GO:0006208+P biological\_process [name] pyrimidine base catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of pyrimidine bases, 1,3-diazine, organic nitrogenous bases." [GOC

10492 Pathogen[ Q2Q067] interacts with 1 human partners:{Q14194}

10493 Pathogen[ P0C214] interacts with 2 human partners:{Q14194;O14531}

10494 Pathogen[ P03346] interacts with 2 human partners:{O14531;Q14194}

10495 Pathogen[ Q85601] interacts with 1 human partners:{Q14194}

10496 Pathogen[ P14079] interacts with 1 human partners:{Q14194}

10497 Pathogen[ P03410] interacts with 2 human partners:{O14531;Q14194}

10498 Pathogen[ P0C206] interacts with 2 human partners:{O14531;Q14194}

10499 Pathogen[ P03363] interacts with 2 human partners:{Q14194;O14531}

10500 [Cluster 1678]GO:0014911+P biological\_process [name] positive regulation of smooth muscle cell migration [def] "Any process that activates, maintains or increases the frequency, rate or extent of smooth muscle cell migration." [CL

10501 Pathogen[ Q2Q067] interacts with 1 human partners:{O14786}

10502 Pathogen[ P0C214] interacts with 1 human partners:{O14786}

10503 Pathogen[ P03346] interacts with 1 human partners:{O14786}

10504 Pathogen[ Q85601] interacts with 1 human partners:{O14786}

10505 Pathogen[ P03410] interacts with 1 human partners:{O14786}

10506 Pathogen[ P0C206] interacts with 1 human partners:{O14786}

10507 Pathogen[ P03363] interacts with 1 human partners:{O14786}

10508 [Cluster 1679]GO:0032963+P biological\_process [name] collagen metabolic process [def] "The chemical reactions and pathways involving collagen, any of a group of fibrous proteins of very high tensile strength that form the main component of connective tissue in animals. Collagen is highly enriched in glycine (some regions are 33% glycine) and proline, occurring predominantly as 3-hydroxyproline (about 20%)." [GOC

10509 Pathogen[ Q2Q067] interacts with 1 human partners:{P41134}

10510 Pathogen[ P0C214] interacts with 1 human partners:{P41134}

10511 Pathogen[ P03346] interacts with 1 human partners:{P41134}

10512 Pathogen[ Q85601] interacts with 1 human partners:{P41134}

10513 Pathogen[ P14079] interacts with 1 human partners:{P41134}

10514 Pathogen[ P03410] interacts with 1 human partners:{P41134}

10515 Pathogen[ P0C206] interacts with 1 human partners:{P41134}

10516 Pathogen[ P03363] interacts with 1 human partners:{P41134}

10517 [Cluster 1680]GO:0055107+P biological\_process [name] Golgi to secretory granule transport [def] "The directed movement of proteins from the Golgi to a secretory granule. The secretory granule is a membrane-bounded particle, usually protein, formed in the granular endoplasmic reticulum and the Golgi complex." [GOC

10518 Pathogen[ P03346] interacts with 1 human partners:{Q6ZP65}

10519 Pathogen[ Q85601] interacts with 1 human partners:{Q6ZP65}

10520 Pathogen[ P14079] interacts with 1 human partners:{Q6ZP65}

10521 Pathogen[ P03410] interacts with 1 human partners:{Q6ZP65}

10522 Pathogen[ P0C206] interacts with 1 human partners:{Q6ZP65}

10523 Pathogen[ P03363] interacts with 1 human partners:{Q6ZP65}

10524 [Cluster 1681]GO:0030858+P biological\_process [name] positive regulation of epithelial cell differentiation [def] "Any process that activates or increases the frequency, rate or extent of epithelial cell differentiation." [GOC

10525 Pathogen[ Q2Q067] interacts with 1 human partners:{P42772}

10526 Pathogen[ P0C214] interacts with 1 human partners:{P42772}

10527 Pathogen[ P03346] interacts with 1 human partners:{P42772}

10528 Pathogen[ Q85601] interacts with 1 human partners:{P42772}

10529 Pathogen[ P03383] interacts with 1 human partners:{P42772}

10530 Pathogen[ P03410] interacts with 1 human partners:{P42772}

10531 Pathogen[ P14075] interacts with 1 human partners:{P42772}

10532 Pathogen[ P0C206] interacts with 1 human partners:{P42772}

10533 Pathogen[ P03363] interacts with 1 human partners:{P42772}

10534 [Cluster 1682]GO:0043304+P biological\_process [name] regulation of mast cell degranulation [def] "Any process that modulates the frequency, rate, or extent of mast cell degranulation." [ISBN

10535 Pathogen[ Q2Q067] interacts with 1 human partners:{Q15833}

10536 Pathogen[ P0C214] interacts with 1 human partners:{Q15833}

10537 Pathogen[ P03346] interacts with 2 human partners:{Q15833;Q70J99}

10538 Pathogen[ Q85601] interacts with 1 human partners:{Q15833}

10539 Pathogen[ P14079] interacts with 1 human partners:{Q15833}

10540 Pathogen[ P03410] interacts with 2 human partners:{Q15833;Q70J99}

10541 Pathogen[ P0C206] interacts with 1 human partners:{Q15833}

10542 Pathogen[ P03363] interacts with 1 human partners:{Q15833}

10543 [Cluster 1683]GO:0046855+P biological\_process [name] inositol phosphate dephosphorylation [def] "The process of removing a phosphate group from any mono- or polyphosphorylated inositol." [ISBN

10544 Pathogen[ P0C214] interacts with 1 human partners:{O15056}

10545 Pathogen[ P03346] interacts with 1 human partners:{O15056}

10546 Pathogen[ P03363] interacts with 1 human partners:{O15056}

10547 [Cluster 1684]GO:0006931+P biological\_process [name] substrate-dependent cell migration, cell attachment to substrate [def] "The formation of adhesions that stabilize protrusions at the leading edge of a migrating cell\_ involves integrin activation, clustering, and the recruitment of structural and signaling components to nascent adhesions." [ISBN

10548 Pathogen[ P14079] interacts with 1 human partners:{Q9NP84}

10549 Pathogen[ P03410] interacts with 1 human partners:{Q9NP84}

10550 [Cluster 1685]GO:0071498+P biological\_process [name] cellular response to fluid shear stress [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a fluid shear stress stimulus. Fluid shear stress is the force acting on an object in a system where the fluid is moving across a solid surface." [GOC

10551 Pathogen[ P14079] interacts with 1 human partners:{Q06413}

10552 [Cluster 1686]GO:0060956+P biological\_process [name] endocardial cell differentiation [def] "The process in which a relatively unspecialized cell acquires the specialized structural and/or functional features of an endocardial cell. An endocardial cell is a specialized endothelial cell that makes up the endocardium portion of the heart. The endocardium is the innermost layer of tissue of the heart, and lines the heart chambers." [GOC

10553 Pathogen[ P03346] interacts with 1 human partners:{P35713}

10554 [Cluster 1687]GO:0072537+P biological\_process [name] fibroblast activation [def] "A change in the morphology or behavior of a fibroblast resulting from exposure to an activating factor such as a cellular or soluble ligand." [CL

10555 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9H4X1}

10556 Pathogen[ P0C214] interacts with 1 human partners:{Q9H4X1}

10557 Pathogen[ P03346] interacts with 1 human partners:{Q9H4X1}

10558 Pathogen[ Q85601] interacts with 1 human partners:{Q9H4X1}

10559 Pathogen[ P03383] interacts with 1 human partners:{Q9H4X1}

10560 Pathogen[ P03410] interacts with 1 human partners:{Q9H4X1}

10561 Pathogen[ P14075] interacts with 1 human partners:{Q9H4X1}

10562 Pathogen[ P0C206] interacts with 1 human partners:{Q9H4X1}

10563 Pathogen[ P03363] interacts with 1 human partners:{Q9H4X1}

10564 [Cluster 1688]GO:0019953+P biological\_process [name] sexual reproduction [def] "The regular alternation, in the life cycle of haplontic, diplontic and diplohaplontic organisms, of meiosis and fertilization which provides for the production offspring. In diplontic organisms there is a life cycle in which the products of meiosis behave directly as gametes, fusing to form a zygote from which the diploid, or sexually reproductive polyploid, adult organism will develop. In diplohaplontic organisms a haploid phase (gametophyte) exists in the life cycle between meiosis and fertilization (e.g. higher plants, many algae and Fungi)\_ the products of meiosis are spores that develop as haploid individuals from which haploid gametes develop to form a diploid zygote\_ diplohaplontic organisms show an alternation of haploid and diploid generations. In haplontic organisms meiosis occurs in the zygote, giving rise to four haploid cells (e.g. many algae and protozoa), only the zygote is diploid and this may form a resistant spore, tiding organisms over hard times." [ISBN

10565 Pathogen[ Q2Q067] interacts with 1 human partners:{P40763}

10566 Pathogen[ P0C214] interacts with 1 human partners:{P40763}

10567 Pathogen[ P03346] interacts with 2 human partners:{P40763;Q8NHV9}

10568 Pathogen[ Q85601] interacts with 1 human partners:{P40763}

10569 Pathogen[ P14079] interacts with 2 human partners:{P04279;Q02383}

10570 Pathogen[ P03410] interacts with 3 human partners:{Q02383;P04279;P40763}

10571 Pathogen[ P0C206] interacts with 1 human partners:{P40763}

10572 Pathogen[ P03363] interacts with 1 human partners:{Q8NHV9}

10573 [Cluster 1689]GO:0045059+P biological\_process [name] positive thymic T cell selection [def] "The process of sparing immature T cells in the thymus which react with self-MHC protein complexes with low affinity levels from apoptotic death." [ISBN

10574 Pathogen[ Q2Q067] interacts with 1 human partners:{P11831}

10575 Pathogen[ P0C214] interacts with 1 human partners:{P11831}

10576 Pathogen[ P03346] interacts with 1 human partners:{P11831}

10577 Pathogen[ Q85601] interacts with 1 human partners:{P11831}

10578 Pathogen[ P03383] interacts with 1 human partners:{P11831}

10579 Pathogen[ P03410] interacts with 1 human partners:{P11831}

10580 Pathogen[ P14075] interacts with 1 human partners:{P11831}

10581 Pathogen[ P0C206] interacts with 1 human partners:{P11831}

10582 Pathogen[ P03363] interacts with 1 human partners:{P11831}

10583 [Cluster 1690]GO:0030103+P biological\_process [name] vasopressin secretion [def] "The regulated release of vasopressin from secretory granules into the blood." [GOC

10584 Pathogen[ P03346] interacts with 1 human partners:{P22103}

10585 Pathogen[ P14079] interacts with 1 human partners:{P22103}

10586 Pathogen[ P03383] interacts with 1 human partners:{P22103}

10587 Pathogen[ P03410] interacts with 1 human partners:{P22103}

10588 Pathogen[ P14075] interacts with 1 human partners:{P22103}

10589 Pathogen[ P0C206] interacts with 1 human partners:{P22103}

10590 Pathogen[ P03363] interacts with 1 human partners:{P22103}

10591 [Cluster 1691]GO:0090281+P biological\_process [name] negative regulation of calcium ion import [def] "Any process that decreases the rate, frequency, or extent of the directed movement of calcium ions into a cell or organelle." [GOC

10592 Pathogen[ Q2Q067] interacts with 1 human partners:{P14373}

10593 Pathogen[ P0C214] interacts with 1 human partners:{P14373}

10594 Pathogen[ P03346] interacts with 1 human partners:{P14373}

10595 Pathogen[ Q85601] interacts with 1 human partners:{P14373}

10596 Pathogen[ P14079] interacts with 1 human partners:{P14373}

10597 Pathogen[ POC206] interacts with 1 human partners:{P14373}

10598 Pathogen[ P03363] interacts with 1 human partners:{P14373}

10599 [Cluster 1692]GO:0019695+P biological\_process [name] choline metabolic process [def] "The chemical reactions and pathways involving choline (2-hydroxyethyltrimethylammonium), an amino alcohol that occurs widely in living organisms as a constituent of certain types of phospholipids and in the neurotransmitter acetylcholine." [GOC

10600 Pathogen[ POC214] interacts with 1 human partners:{Q9UI17}

10601 Pathogen[ P14079] interacts with 1 human partners:{Q9UI17}

10602 Pathogen[ P03410] interacts with 1 human partners:{Q9UI17}

10603 [Cluster 1693]GO:0060437+P biological\_process [name] lung growth [def] "The increase in size or mass of a lung. In all air-breathing vertebrates the lungs are developed from the ventral wall of the oesophagus as a pouch which divides into two sacs. In amphibians and many reptiles the lungs retain very nearly this primitive sac-like character, but in the higher forms the connection with the esophagus becomes elongated into the windpipe and the inner walls of the sacs become more and more divided, until, in the mammals, the air spaces become minutely divided into tubes ending in small air cells, in the walls of which the blood circulates in a fine network of capillaries. In mammals the lungs are more or less divided into lobes, and each lung occupies a separate cavity in the thorax." [GOC

10604 Pathogen[ P14079] interacts with 1 human partners:{O43597}

10605 Pathogen[ P03410] interacts with 1 human partners:{O43597}

10606 Pathogen[ POC206] interacts with 1 human partners:{O43597}

10607 [Cluster 1694]GO:0019934+P biological\_process [name] cGMP-mediated signaling [def] "A series of molecular signals in which a cell uses cyclic GMP to convert an extracellular signal into a response." [GOC

10608 Pathogen[ P03346] interacts with 1 human partners:{Q86UT5}

10609 Pathogen[ P14079] interacts with 1 human partners:{Q86UT5}

10610 Pathogen[ P03410] interacts with 1 human partners:{Q86UT5}

10611 Pathogen[ POC206] interacts with 1 human partners:{Q86UT5}

10612 Pathogen[ P03363] interacts with 1 human partners:{Q86UT5}

10613 [Cluster 1695]GO:0046031+P biological\_process [name] ADP metabolic process [def] "The chemical reactions and pathways involving ADP, adenosine 5'-diphosphate." [GOC

10614 Pathogen[ POC214] interacts with 1 human partners:{Q92934}

10615 Pathogen[ P14079] interacts with 1 human partners:{Q92934}

10616 Pathogen[ P03410] interacts with 1 human partners:{Q92934}

10617 Pathogen[ POC206] interacts with 1 human partners:{Q92934}

10618 [Cluster 1696]GO:0007194+P biological\_process [name] negative regulation of adenylate cyclase activity [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of adenylate cyclase activity." [GOC

10619 Pathogen[ P14079] interacts with 1 human partners:{O75781}

10620 Pathogen[ P03410] interacts with 1 human partners:{O75781}

10621 [Cluster 1697]GO:0035844+P biological\_process [name] cloaca development [def] "The process whose specific outcome is the progression of the cloaca over time, from it's formation to the mature structure. The cloaca is the common chamber into which intestinal, genital and urinary canals open in vertebrates." [GOC

10622 Pathogen[ P03346] interacts with 1 human partners:{Q8N157}

10623 Pathogen[ P14079] interacts with 1 human partners:{Q8N157}

10624 Pathogen[ P03410] interacts with 1 human partners:{Q8N157}

10625 Pathogen[ POC206] interacts with 1 human partners:{Q8N157}

10626 Pathogen[ P03363] interacts with 1 human partners:{Q8N157}

10627 [Cluster 1698]GO:0055081+P biological\_process [name] anion homeostasis [def] "Any process involved in the maintenance of an internal steady state of anions within an organism or cell." [GOC

10628 Pathogen[ POC214] interacts with 1 human partners:{P00480}

10629 Pathogen[ Q85601] interacts with 1 human partners:{P00480}

10630 Pathogen[ P14079] interacts with 1 human partners:{P00480}

10631 Pathogen[ P03410] interacts with 1 human partners:{P00480}

10632 Pathogen[ POC206] interacts with 1 human partners:{P00480}

10633 [Cluster 1699]GO:1900116+P

10634 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8IVG9}

10635 Pathogen[ P03346] interacts with 1 human partners:{Q8IVG9}

10636 Pathogen[ P14079] interacts with 1 human partners:{Q8IVG9}

10637 Pathogen[ P03383] interacts with 1 human partners:{Q8IVG9}

10638 Pathogen[ P03410] interacts with 1 human partners:{Q8IVG9}

10639 Pathogen[ P14075] interacts with 1 human partners:{Q8IVG9}

10640 Pathogen[ POC206] interacts with 1 human partners:{Q8IVG9}

10641 Pathogen[ P03363] interacts with 1 human partners:{Q8IVG9}

10642 [Cluster 1700]GO:0007418+P biological\_process [name] ventral midline development [def] "The process whose specific outcome is the progression of the ventral midline over time, from its formation to the mature structure. In protostomes (such as insects, snails and worms) as well as deuterostomes (vertebrates), the midline is an embryonic region that functions in patterning of the adjacent nervous tissue. The ventral midline in insects is a cell population extending along the ventral surface of the embryo and is the region from which cells detach to form the ventrally located nerve cords. In vertebrates, the midline is originally located dorsally. During development, it folds



inwards and becomes the ventral part of the dorsally located neural tube and is then called the ventral midline, or floor plate." [GOC

10643 Pathogen[ Q2Q067] interacts with 1 human partners:{P08151}

10644 Pathogen[ POC214] interacts with 1 human partners:{P08151}

10645 Pathogen[ P03346] interacts with 1 human partners:{P08151}

10646 Pathogen[ Q85601] interacts with 1 human partners:{P08151}

10647 Pathogen[ P14079] interacts with 1 human partners:{P08151}

10648 Pathogen[ POC206] interacts with 1 human partners:{P08151}

10649 Pathogen[ P03363] interacts with 1 human partners:{P08151}

10650 [Cluster 1701]GO:0001710+P biological\_process [name] mesodermal cell fate commitment [def] "The cell differentiation process that results in commitment of a cell to become part of the mesoderm." [GOC

10651 Pathogen[ Q2Q067] interacts with 1 human partners:{Q15797}

10652 Pathogen[ POC214] interacts with 1 human partners:{Q15797}

10653 Pathogen[ P03346] interacts with 1 human partners:{Q15797}

10654 Pathogen[ Q85601] interacts with 1 human partners:{Q15797}

10655 Pathogen[ P14079] interacts with 1 human partners:{Q15797}

10656 Pathogen[ P03383] interacts with 1 human partners:{Q15797}

10657 Pathogen[ P03410] interacts with 1 human partners:{Q15797}

10658 Pathogen[ POC206] interacts with 1 human partners:{Q15797}

10659 Pathogen[ P03363] interacts with 1 human partners:{Q15797}

10660 [Cluster 1702]GO:0035710+P biological\_process [name] CD4-positive, alpha-beta T cell activation [def] "The change in morphology and behavior of a CD4-positive, alpha-beta T cell resulting from exposure to a mitogen, cytokine, chemokine, cellular ligand, or an antigen for which it is specific." [CL

10661 Pathogen[ POC214] interacts with 1 human partners:{Q8WXG1}

10662 Pathogen[ P14079] interacts with 1 human partners:{Q8WXG1}

10663 Pathogen[ P03410] interacts with 1 human partners:{Q8WXG1}

10664 Pathogen[ POC206] interacts with 1 human partners:{Q8WXG1}

10665 [Cluster 1703]GO:0030917+P biological\_process [name] midbrain-hindbrain boundary development [def] "The process whose specific outcome is the progression of the midbrain-hindbrain boundary over time, from its formation to the mature structure. The midbrain-hindbrain domain of the embryonic brain is comprised of the mesencephalic vesicle and the first rhombencephalic vesicle at early somitogenesis stages." [GOC

10666 Pathogen[ P03346] interacts with 2 human partners:{Q05925;P52951}

10667 Pathogen[ P03363] interacts with 2 human partners:{Q05925;P52951}

10668 [Cluster 1704]GO:0030827+P biological\_process [name] negative regulation of cGMP biosynthetic process [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the chemical reactions and pathways resulting in the formation of cGMP." [GOC

10669 Pathogen[ P03346] interacts with 1 human partners:{Q86UT5}

10670 Pathogen[ P14079] interacts with 1 human partners:{Q86UT5}

10671 Pathogen[ P03410] interacts with 1 human partners:{Q86UT5}

10672 Pathogen[ POC206] interacts with 1 human partners:{Q86UT5}

10673 Pathogen[ P03363] interacts with 1 human partners:{Q86UT5}

10674 [Cluster 1705]GO:0034165+P biological\_process [name] positive regulation of toll-like receptor 9 signaling pathway [def] "Any process that activates or increases the frequency, rate, or extent of toll-like receptor 9 signaling pathway." [GOC

10675 Pathogen[ POC214] interacts with 1 human partners:{Q8WXG1}

10676 Pathogen[ P14079] interacts with 1 human partners:{Q8WXG1}

10677 Pathogen[ P03410] interacts with 1 human partners:{Q8WXG1}

10678 Pathogen[ POC206] interacts with 1 human partners:{Q8WXG1}

10679 [Cluster 1706]GO:0070989+P biological\_process [name] oxidative demethylation [def] "The process of removing one or more methyl groups from a molecule, involving the oxidation (i.e. electron loss) of one or more atoms in the substrate." [GOC

10680 Pathogen[ Q2Q067] interacts with 1 human partners:{Q6NS38}

10681 Pathogen[ POC214] interacts with 1 human partners:{Q6NS38}

10682 Pathogen[ Q85601] interacts with 1 human partners:{Q6NS38}

10683 Pathogen[ P14079] interacts with 2 human partners:{Q9C0B1;Q6NS38}

10684 Pathogen[ P03410] interacts with 2 human partners:{Q6NS38;Q9C0B1}

10685 Pathogen[ POC206] interacts with 1 human partners:{Q6NS38}

10686 [Cluster 1707]GO:0035871+P biological\_process [name] protein K11-linked deubiquitination [def] "A protein deubiquitination process in which a K11-linked ubiquitin chain, i.e. a polymer of ubiquitin formed by linkages between lysine residues at position 11 of the ubiquitin monomers, is removed from a protein." [GOC

10687 Pathogen[ Q2Q067] interacts with 1 human partners:{Q86T82}

10688 Pathogen[ P03346] interacts with 1 human partners:{Q86T82}

10689 Pathogen[ Q85601] interacts with 1 human partners:{Q86T82}

10690 Pathogen[ POC206] interacts with 1 human partners:{Q86T82}

10691 Pathogen[ P03363] interacts with 1 human partners:{Q86T82}

10692 [Cluster 1708]GO:0070431+P biological\_process [name] nucleotide-binding oligomerization domain containing 2 signaling pathway [def] "Any series of molecular signals generated as a consequence of binding to nucleotide-binding oligomerization domain containing 2 (NOD2)." [GOC

10693 Pathogen[ Q2Q067] interacts with 2 human partners:{Q04206;P25963}

10694 Pathogen[ POC214] interacts with 2 human partners:{Q04206;P25963}

10695 Pathogen[ P03346] interacts with 2 human partners:{P25963;Q04206}

10696 Pathogen[ Q85601] interacts with 2 human partners:{Q04206;P25963}

10697 Pathogen[ P03383] interacts with 2 human partners:{P25963;Q04206}

10698 Pathogen[ P03410] interacts with 2 human partners:{Q04206;P25963}

10699 Pathogen[ P14075] interacts with 2 human partners:{Q04206;P25963}

10700 Pathogen[ P0C206] interacts with 2 human partners:{P25963;Q04206}

10701 Pathogen[ P03363] interacts with 2 human partners:{Q04206;P25963}

10702 [Cluster 1709]GO:0006575+P biological\_process [name] cellular modified amino acid metabolic process [def] "The chemical reactions and pathways involving compounds derived from amino acids, organic acids containing one or more amino substituents." [CHEBI]

10703 Pathogen[ P0C214] interacts with 1 human partners:{Q16773}

10704 [Cluster 1710]GO:0033762+P biological\_process [name] response to glucagon stimulus [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a glucagon stimulus." [GOC]

10705 Pathogen[ Q2Q067] interacts with 1 human partners:{P36956}

10706 Pathogen[ P0C214] interacts with 2 human partners:{P09417;P16118}

10707 Pathogen[ P03346] interacts with 1 human partners:{P36956}

10708 Pathogen[ Q85601] interacts with 2 human partners:{P16118;P36956}

10709 Pathogen[ P14079] interacts with 2 human partners:{Q16878;P36956}

10710 Pathogen[ P03410] interacts with 2 human partners:{P36956;P16118}

10711 Pathogen[ P14075] interacts with 1 human partners:{P16118}

10712 Pathogen[ P0C206] interacts with 2 human partners:{P36956;P16118}

10713 [Cluster 1711]GO:0007199+P biological\_process [name] G-protein signaling, coupled to cGMP nucleotide second messenger [def] "The series of molecular signals generated as a consequence of a G-protein coupled receptor binding to its physiological ligand, followed by activation of guanylyl cyclase and a subsequent increase in the concentration of cyclic GMP." [GOC]

10714 Pathogen[ P03346] interacts with 1 human partners:{Q12788}

10715 Pathogen[ P03410] interacts with 1 human partners:{Q12788}

10716 [Cluster 1712]GO:0032418+P biological\_process [name] lysosome localization [def] "Any process in which a lysosome is transported to, and/or maintained in, a specific location." [GOC]

10717 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9H267}

10718 Pathogen[ P03346] interacts with 2 human partners:{Q96AX1;Q9H267}

10719 Pathogen[ Q85601] interacts with 1 human partners:{Q9H267}

10720 Pathogen[ P14079] interacts with 3 human partners:{Q6IAA8;Q96AX1;Q9H267}

10721 Pathogen[ P03410] interacts with 3 human partners:{Q9H267;Q6IAA8;Q96AX1}

10722 Pathogen[ P0C206] interacts with 2 human partners:{Q96AX1;Q9H267}

10723 Pathogen[ P03363] interacts with 1 human partners:{Q9H267}

10724 [Cluster 1713]GO:0014009+P biological\_process [name] glial cell proliferation [def] "The multiplication or reproduction of glial cells by cell division, resulting in the expansion of their population. Glial cells exist throughout the nervous system, and include Schwann cells, astrocytes, and oligodendrocytes among others." [GOC]

10725 Pathogen[ P03346] interacts with 1 human partners:{Q06945}

10726 [Cluster 1714]GO:0031659+P biological\_process [name] positive regulation of cyclin-dependent protein kinase activity involved in G1/S [def] "Any process that activates or increases the frequency, rate or extent of CDK activity contributing to the G1/S transition of the cell cycle." [GOC]

10727 Pathogen[ Q2Q067] interacts with 2 human partners:{P31749;Q9H4X1}

10728 Pathogen[ P0C214] interacts with 2 human partners:{Q9H4X1;P31749}

10729 Pathogen[ P03346] interacts with 2 human partners:{Q9H4X1;P31749}

10730 Pathogen[ Q85601] interacts with 2 human partners:{Q9H4X1;P31749}

10731 Pathogen[ P03383] interacts with 2 human partners:{Q9H4X1;P31749}

10732 Pathogen[ P03410] interacts with 2 human partners:{Q9H4X1;P31749}

10733 Pathogen[ P14075] interacts with 2 human partners:{Q9H4X1;P31749}

10734 Pathogen[ P0C206] interacts with 2 human partners:{P31749;Q9H4X1}

10735 Pathogen[ P03363] interacts with 2 human partners:{Q9H4X1;P31749}

10736 [Cluster 1715]GO:0016340+P biological\_process [name] calcium-dependent cell-matrix adhesion [def] "The binding of a cell to the extracellular matrix via adhesion molecules that require the presence of calcium for the interaction." [GOC]

10737 Pathogen[ P14079] interacts with 1 human partners:{Q14118}

10738 Pathogen[ P03410] interacts with 1 human partners:{Q14118}

10739 [Cluster 1716]GO:0060096+P biological\_process [name] serotonin secretion, neurotransmission [def] "The regulated release of serotonin by a cell or group of cells, in which released serotonin acts as a neurotransmitter." [GOC]

10740 Pathogen[ Q2Q067] interacts with 1 human partners:{P17861}

10741 Pathogen[ P0C214] interacts with 1 human partners:{P17861}

10742 Pathogen[ P03346] interacts with 1 human partners:{P17861}

10743 Pathogen[ Q85601] interacts with 1 human partners:{P17861}

10744 Pathogen[ P03383] interacts with 1 human partners:{P17861}

10745 Pathogen[ P03410] interacts with 1 human partners:{P17861}

10746 Pathogen[ P14075] interacts with 1 human partners:{P17861}

10747 Pathogen[ P0C206] interacts with 1 human partners:{P17861}

10748 Pathogen[ P03363] interacts with 1 human partners:{P17861}

10749 [Cluster 1717]GO:0046856+P biological\_process [name] phosphatidylinositol dephosphorylation [def] "The process of removing one or more phosphate groups from a phosphatidylinositol." [ISBN

10750 Pathogen[ POC214] interacts with 2 human partners:{O15056;Q13615}

10751 Pathogen[ P03346] interacts with 1 human partners:{O15056}

10752 Pathogen[ POC206] interacts with 1 human partners:{Q13615}

10753 Pathogen[ P03363] interacts with 1 human partners:{O15056}

10754 [Cluster 1718]GO:0016042+P biological\_process [name] lipid catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of lipids, compounds soluble in an organic solvent but not, or sparingly, in an aqueous solvent." [GOC

10755 Pathogen[ Q2Q067] interacts with 1 human partners:{Q15102}

10756 Pathogen[ POC214] interacts with 3 human partners:{P68402;Q15102;Q06520}

10757 Pathogen[ P03346] interacts with 2 human partners:{Q06520;Q15102}

10758 Pathogen[ Q85601] interacts with 1 human partners:{Q15102}

10759 Pathogen[ P14079] interacts with 9 human partners:{O94830;Q8N8W4;Q8NCQ7;Q8NEL9;Q8NCG7;Q15102;Q9NZ20;Q7Z6Z6;Q99487}

10760 Pathogen[ P03410] interacts with 8 human partners:{Q8NCG7;O94830;Q9NZ20;Q15102;Q8NCQ7;Q8N8W4;Q7Z6Z6;Q8NEL9}

10761 Pathogen[ P14075] interacts with 1 human partners:{Q15102}

10762 Pathogen[ POC206] interacts with 3 human partners:{Q15102;O94830;Q8NEL9}

10763 Pathogen[ P03363] interacts with 2 human partners:{Q06520;Q15102}

10764 [Cluster 1719]GO:0006685+P biological\_process [name] sphingomyelin catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of sphingomyelin, N-acyl-4-sphinganyl-1-O-phosphorylcholine." [ISBN

10765 Pathogen[ P14079] interacts with 3 human partners:{Q9NY59;Q9NxE4;P17405}

10766 Pathogen[ P03410] interacts with 2 human partners:{Q9NxE4;P17405}

10767 [Cluster 1720]GO:0015813+P biological\_process [name] L-glutamate transport [def] "The directed movement of L-glutamate, the L enantiomer anion of 2-aminopentanedioic acid, into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore." [GOC

10768 Pathogen[ P14079] interacts with 2 human partners:{O75915;O60831}

10769 Pathogen[ P03383] interacts with 1 human partners:{O60831}

10770 Pathogen[ P03410] interacts with 2 human partners:{O75915;O60831}

10771 Pathogen[ P14075] interacts with 1 human partners:{O60831}

10772 Pathogen[ POC206] interacts with 1 human partners:{O60831}

10773 [Cluster 1721]GO:0070072+P biological\_process [name] vacuolar proton-transporting V-type ATPase complex assembly [def] "The aggregation, arrangement and bonding together of a vacuolar proton-transporting V-type ATPase complex, proton-transporting two-sector ATPase complex that couples ATP hydrolysis to the transport of protons across the vacuolar membrane." [GOC

10774 Pathogen[ Q2Q067] interacts with 1 human partners:{P05062}

10775 Pathogen[ POC214] interacts with 1 human partners:{P05062}

10776 Pathogen[ P03346] interacts with 1 human partners:{P05062}

10777 Pathogen[ Q85601] interacts with 1 human partners:{P05062}

10778 Pathogen[ P14079] interacts with 1 human partners:{Q3ZAQ7}

10779 Pathogen[ P03410] interacts with 1 human partners:{P05062}

10780 Pathogen[ POC206] interacts with 1 human partners:{P05062}

10781 [Cluster 1722]GO:0007522+P biological\_process [name] visceral muscle development [def] "The process whose specific outcome is the progression of the visceral muscle over time, from its formation to the mature structure." [GOC

10782 Pathogen[ POC214] interacts with 1 human partners:{P13533}

10783 Pathogen[ Q85601] interacts with 1 human partners:{P13533}

10784 Pathogen[ P03410] interacts with 1 human partners:{P13533}

10785 Pathogen[ POC206] interacts with 1 human partners:{P13533}

10786 [Cluster 1723]GO:0030038+P biological\_process [name] contractile actin filament bundle assembly [def] "Assembly of actin filament bundles in which the filaments are loosely packed (approximately 30-60 nm apart) and arranged with opposing polarities\_ the loose packing allows myosin (usually myosin-II) to enter the bundle." [GOC

10787 Pathogen[ Q2Q067] interacts with 1 human partners:{P11831}

10788 Pathogen[ POC214] interacts with 1 human partners:{P11831}

10789 Pathogen[ P03346] interacts with 1 human partners:{P11831}

10790 Pathogen[ Q85601] interacts with 1 human partners:{P11831}

10791 Pathogen[ P03383] interacts with 1 human partners:{P11831}

10792 Pathogen[ P03410] interacts with 1 human partners:{P11831}

10793 Pathogen[ P14075] interacts with 1 human partners:{P11831}

10794 Pathogen[ POC206] interacts with 1 human partners:{P11831}

10795 Pathogen[ P03363] interacts with 1 human partners:{P11831}

10796 [Cluster 1724]GO:0090102+P biological\_process [name] cochlea development [def] "The progression of the cochlea over time from its formation to the mature structure. The cochlea is the snail-shaped portion of the inner ear that is responsible for the detection of sound." [GOC

10797 Pathogen[ Q2Q067] interacts with 1 human partners:{P49639}

10798 Pathogen[ POC214] interacts with 1 human partners:{P49639}

10799 Pathogen[ P03346] interacts with 1 human partners:{P49639}

10800 Pathogen[ Q85601] interacts with 1 human partners:{P49639}

10801 Pathogen[ P14079] interacts with 1 human partners:{P49639}

10802 Pathogen[ P03383] interacts with 1 human partners:{P49639}

10803 Pathogen[ P03410] interacts with 1 human partners:{P49639}

10804 Pathogen[ P0C206] interacts with 1 human partners:{P49639}

10805 Pathogen[ P03363] interacts with 1 human partners:{P49639}

10806 [Cluster 1725]GO:0045742+P biological\_process [name] positive regulation of epidermal growth factor receptor signaling pathway [def] "Any process that activates or increases the frequency, rate or extent of epidermal growth factor receptor signaling pathway activity." [GOC

10807 Pathogen[ Q2Q067] interacts with 1 human partners:{P37198}

10808 Pathogen[ P0C214] interacts with 3 human partners:{P18545;P37198;Q13956}

10809 Pathogen[ P03346] interacts with 1 human partners:{P37198}

10810 Pathogen[ P14079] interacts with 3 human partners:{P18545;Q13956;P37198}

10811 Pathogen[ P03383] interacts with 1 human partners:{P37198}

10812 Pathogen[ P03410] interacts with 2 human partners:{Q13956;P18545}

10813 Pathogen[ P14075] interacts with 1 human partners:{P37198}

10814 Pathogen[ P0C206] interacts with 2 human partners:{P18545;Q13956}

10815 Pathogen[ P03363] interacts with 1 human partners:{P37198}

10816 [Cluster 1726]GO:0031440+P biological\_process [name] regulation of mRNA 3'-end processing [def] "Any process that modulates the frequency, rate or extent of mRNA 3'-end processing, any process involved in forming the mature 3' end of an mRNA molecule." [GOC

10817 Pathogen[ P0C214] interacts with 1 human partners:{O43865}

10818 Pathogen[ P03346] interacts with 1 human partners:{O43865}

10819 Pathogen[ Q85601] interacts with 1 human partners:{O43865}

10820 Pathogen[ P14079] interacts with 1 human partners:{O43865}

10821 Pathogen[ P03410] interacts with 1 human partners:{O43865}

10822 Pathogen[ P0C206] interacts with 1 human partners:{O43865}

10823 Pathogen[ P03363] interacts with 1 human partners:{O43865}

10824 [Cluster 1727]GO:0034113+P biological\_process [name] heterotypic cell-cell adhesion [def] "The attachment of a cell to a cell of a different type via adhesion molecules." [GOC

10825 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NVD7}

10826 Pathogen[ P0C214] interacts with 1 human partners:{Q9NVD7}

10827 Pathogen[ P03346] interacts with 1 human partners:{Q9NVD7}

10828 Pathogen[ Q85601] interacts with 1 human partners:{Q9NVD7}

10829 Pathogen[ P14079] interacts with 1 human partners:{Q9NVD7}

10830 Pathogen[ P03410] interacts with 1 human partners:{Q9NVD7}

10831 Pathogen[ P0C206] interacts with 1 human partners:{Q9NVD7}

10832 Pathogen[ P03363] interacts with 1 human partners:{Q9NVD7}

10833 [Cluster 1728]GO:0035623+P biological\_process [name] renal glucose absorption [def] "A renal system process in which glucose is taken up from the collecting ducts and proximal and distal loops of the nephron." [GOC

10834 Pathogen[ Q2Q067] interacts with 1 human partners:{P20823}

10835 Pathogen[ P03346] interacts with 1 human partners:{P20823}

10836 Pathogen[ Q85601] interacts with 1 human partners:{P20823}

10837 Pathogen[ P0C206] interacts with 1 human partners:{P20823}

10838 [Cluster 1729]GO:0030241+P biological\_process [name] skeletal muscle myosin thick filament assembly [def] "The aggregation, arrangement and bonding together of proteins to form the myosin-based thick filaments of myofibrils in skeletal muscle." [GOC

10839 Pathogen[ P0C214] interacts with 1 human partners:{P35749}

10840 Pathogen[ Q85601] interacts with 1 human partners:{P35749}

10841 Pathogen[ P14079] interacts with 1 human partners:{O15273}

10842 Pathogen[ P03410] interacts with 1 human partners:{O15273}

10843 Pathogen[ P0C206] interacts with 1 human partners:{P35749}

10844 [Cluster 1730]GO:0070130+P biological\_process [name] negative regulation of mitochondrial translation [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the chemical reactions and pathways resulting in the formation of proteins by the translation of mRNA in a mitochondrion." [GOC

10845 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96EH3}

10846 Pathogen[ P0C214] interacts with 1 human partners:{Q96EH3}

10847 Pathogen[ P03346] interacts with 1 human partners:{Q96EH3}

10848 Pathogen[ P14079] interacts with 1 human partners:{Q96EH3}

10849 Pathogen[ P03383] interacts with 1 human partners:{Q96EH3}

10850 Pathogen[ P03410] interacts with 1 human partners:{Q96EH3}

10851 Pathogen[ P14075] interacts with 1 human partners:{Q96EH3}

10852 Pathogen[ P0C206] interacts with 1 human partners:{Q96EH3}

10853 Pathogen[ P03363] interacts with 1 human partners:{Q96EH3}

10854 [Cluster 1731]GO:0006598+P biological\_process [name] polyamine catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of polyamines, any organic compound containing two or more amino groups." [ISBN

10855 Pathogen[ P0C214] interacts with 1 human partners:{Q9NWM0}

10856 [Cluster 1732]GO:0035695+P biological\_process [name] mitochondrion degradation by induced vacuole formation [def] "The process in which cells degrade mitochondria by inducing a vacuole-like structure which directly engulfs and degrades the unhealthy mitochondria by accumulating lysosomes." [GOC

10857 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8TC71}

10858 Pathogen[ POC214] interacts with 1 human partners:{Q8TC71}

10859 Pathogen[ P03346] interacts with 1 human partners:{Q8TC71}

10860 Pathogen[ P14079] interacts with 1 human partners:{Q8TC71}

10861 Pathogen[ P03383] interacts with 1 human partners:{Q8TC71}

10862 Pathogen[ P03410] interacts with 1 human partners:{Q8TC71}

10863 Pathogen[ P14075] interacts with 1 human partners:{Q8TC71}

10864 Pathogen[ POC206] interacts with 1 human partners:{Q8TC71}

10865 Pathogen[ P03363] interacts with 1 human partners:{Q8TC71}

10866 [Cluster 1733]GO:0002669+P biological\_process [name] positive regulation of T cell anergy [def] "Any process that activates or increases the frequency, rate, or extent of T cell anergy." [GOC

10867 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96J02}

10868 Pathogen[ POC214] interacts with 1 human partners:{Q96J02}

10869 Pathogen[ P03346] interacts with 1 human partners:{Q96J02}

10870 Pathogen[ Q85601] interacts with 1 human partners:{Q96J02}

10871 Pathogen[ P14079] interacts with 1 human partners:{Q96J02}

10872 Pathogen[ POC206] interacts with 1 human partners:{Q96J02}

10873 [Cluster 1734]GO:0072108+P biological\_process [name] positive regulation of mesenchymal to epithelial transition involved in metanephros morphogenesis [def] "Any process that increases the rate, frequency or extent of the transition where a mesenchymal cell establishes apical/basolateral polarity, forms intercellular adhesive junctions, synthesizes basement membrane components and becomes an epithelial cell that will contribute to the shaping of the metanephros." [GOC

10874 Pathogen[ P03346] interacts with 1 human partners:{Q06710}

10875 [Cluster 1735]GO:0015012+P biological\_process [name] heparan sulfate proteoglycan biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of the heparan sulfate proteoglycan, a glycosaminoglycan with repeat unit consisting of alternating alpha-(1->4)-linked hexuronic acid and glucosamine residues\_ the former are a mixture of sulfated and nonsulfated D-glucuronic acid and L-iduronic acid\_ the L-iduronic acid is either sulfated or acetylated on its amino group as well as being sulfated on one of its hydroxyl groups\_ heparan sulfate chains are covalently linked to peptidyl-serine by a glycosidic attachment through the trisaccharide galactosyl-galactosyl-xylosyl to serine residues." [GOC

10876 Pathogen[ P14079] interacts with 2 human partners:{O94923;Q9UL01}

10877 Pathogen[ P03410] interacts with 1 human partners:{Q9UL01}

10878 Pathogen[ POC206] interacts with 1 human partners:{Q9UL01}

10879 [Cluster 1736]GO:0051138+P biological\_process [name] positive regulation of NK T cell differentiation [def] "Any process that activates or increases the frequency, rate or extent of natural killer T cell differentiation." [ISBN

10880 Pathogen[ P03346] interacts with 1 human partners:{O14617}

10881 Pathogen[ P14079] interacts with 1 human partners:{O14617}

10882 Pathogen[ P03410] interacts with 2 human partners:{O00203;O14617}

10883 Pathogen[ POC206] interacts with 2 human partners:{Q13422;O14617}

10884 [Cluster 1737]GO:0030199+P biological\_process [name] collagen fibril organization [def] "Any process that determines the size and arrangement of collagen fibrils within an extracellular matrix." [GOC

10885 Pathogen[ Q2Q067] interacts with 1 human partners:{P08697}

10886 Pathogen[ POC214] interacts with 1 human partners:{P08697}

10887 Pathogen[ P03346] interacts with 1 human partners:{Q8IYA7}

10888 Pathogen[ Q85601] interacts with 1 human partners:{P08697}

10889 Pathogen[ P03383] interacts with 1 human partners:{P08697}

10890 Pathogen[ P03410] interacts with 1 human partners:{P08697}

10891 Pathogen[ P14075] interacts with 1 human partners:{P08697}

10892 Pathogen[ POC206] interacts with 1 human partners:{P08697}

10893 Pathogen[ P03363] interacts with 1 human partners:{Q8IYA7}

10894 [Cluster 1738]GO:0050878+P biological\_process [name] regulation of body fluid levels [def] "Any process that modulates the levels of body fluids." [GOC

10895 Pathogen[ P14079] interacts with 1 human partners:{Q86YH6}

10896 Pathogen[ P03410] interacts with 1 human partners:{Q86YH6}

10897 [Cluster 1739]GO:0021554+P biological\_process [name] optic nerve development [def] "The process whose specific outcome is the progression of the optic nerve over time, from its formation to the mature structure. The sensory optic nerve originates from the bipolar cells of the retina and conducts visual information to the brainstem. The optic nerve exits the back of the eye in the orbit, enters the optic canal, and enters the central nervous system at the optic chiasm (crossing) where the nerve fibers become the optic tract just prior to entering the hindbrain." [GO\_REF

10898 Pathogen[ P14079] interacts with 1 human partners:{Q9H061}

10899 [Cluster 1740]GO:0006659+P biological\_process [name] phosphatidylserine biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of phosphatidylserines, any of a class of glycerophospholipids in which the phosphatidyl group is esterified to the hydroxyl group of L-serine." [ISBN

10900 Pathogen[ Q2Q067] interacts with 1 human partners:{O15162}

10901 Pathogen[ POC214] interacts with 1 human partners:{O15162}

10902 Pathogen[ P03346] interacts with 1 human partners:{O15162}

10903 Pathogen[ Q85601] interacts with 1 human partners:{O15162}

10904 Pathogen[ P14079] interacts with 1 human partners:{O15162}

10905 Pathogen[ P03383] interacts with 1 human partners:{015162}

10906 Pathogen[ P03410] interacts with 1 human partners:{015162}

10907 Pathogen[ P14075] interacts with 1 human partners:{015162}

10908 Pathogen[ P0C206] interacts with 1 human partners:{015162}

10909 [Cluster 1741]GO:0010524+P biological\_process [name] positive regulation of calcium ion transport into cytosol [def] "Any process that increases the rate of the directed movement of calcium ions into the cytosol of a cell. The cytosol is that part of the cytoplasm that does not contain membranous or particulate subcellular components." [GOC

10910 Pathogen[ P14079] interacts with 2 human partners:{P24588;O60502}

10911 Pathogen[ P03410] interacts with 2 human partners:{O60502;P24588}

10912 [Cluster 1742]GO:0019377+P biological\_process [name] glycolipid catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of glycolipid, a class of 1,2-di-O-acylglycerols joined at oxygen 3 by a glycosidic linkage to a carbohydrate part (usually a mono-, di- or tri-saccharide)." [CHEBI

10913 Pathogen[ P14079] interacts with 1 human partners:{P17050}

10914 [Cluster 1743]GO:0006213+P biological\_process [name] pyrimidine nucleoside metabolic process [def] "The chemical reactions and pathways involving any pyrimidine nucleoside, one of a family of organic molecules consisting of a pyrimidine base covalently bonded to ribose (a ribonucleoside) or deoxyribose (a deoxyribonucleoside)." [GOC

10915 Pathogen[ P0C214] interacts with 1 human partners:{Q9H0P0}

10916 Pathogen[ P03346] interacts with 1 human partners:{P84090}

10917 Pathogen[ Q85601] interacts with 1 human partners:{Q9H0P0}

10918 Pathogen[ P14079] interacts with 2 human partners:{Q9H0P0;P84090}

10919 Pathogen[ P03383] interacts with 1 human partners:{P84090}

10920 Pathogen[ P03410] interacts with 2 human partners:{P84090;Q9H0P0}

10921 Pathogen[ P14075] interacts with 1 human partners:{P84090}

10922 Pathogen[ P0C206] interacts with 2 human partners:{Q9H0P0;P84090}

10923 [Cluster 1744]GO:0002295+P biological\_process [name] T-helper cell lineage commitment [def] "The process in which a CD4-positive, alpha-beta T cell becomes committed to becoming a T-helper cell, a CD4-positive, alpha-beta T cell specialized to promote various immunological processes." [GOC

10924 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8IX07}

10925 Pathogen[ P0C214] interacts with 1 human partners:{Q8IX07}

10926 Pathogen[ P03346] interacts with 1 human partners:{Q8IX07}

10927 Pathogen[ Q85601] interacts with 1 human partners:{Q8IX07}

10928 Pathogen[ P14079] interacts with 1 human partners:{Q8IX07}

10929 Pathogen[ P03410] interacts with 1 human partners:{Q8IX07}

10930 Pathogen[ P0C206] interacts with 1 human partners:{Q8IX07}

10931 [Cluster 1745]GO:0019448+P biological\_process [name] L-cysteine catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of L-cysteine, the L-enantiomer of 2-amino-3-mercaptopropanoic acid, i.e. (2R)-2-amino-3-mercaptopropanoic acid." [CHEBI

10932 Pathogen[ P0C214] interacts with 1 human partners:{P35520}

10933 Pathogen[ P14079] interacts with 1 human partners:{Q16878}

10934 [Cluster 1746]GO:0046439+P biological\_process [name] L-cysteine metabolic process [def] "The chemical reactions and pathways involving L-cysteine, the L-enantiomer of 2-amino-3-mercaptopropanoic acid, i.e. (2R)-2-amino-3-mercaptopropanoic acid." [CHEBI

10935 Pathogen[ P14079] interacts with 1 human partners:{Q16878}

10936 [Cluster 1747]GO:0035054+P biological\_process [name] embryonic heart tube anterior/posterior pattern specification [def] "The establishment, maintenance and elaboration of cell differentiation that results in the anterior/posterior subdivision of the embryonic heart tube. In Drosophila this results in subdivision of the dorsal vessel into the posterior heart proper and the anterior aorta." [GOC

10937 Pathogen[ P03346] interacts with 1 human partners:{O75593}

10938 [Cluster 1748]GO:0045925+P biological\_process [name] positive regulation of female receptivity [def] "Any process that activates or increases the receptiveness of a female to male advances." [GOC

10939 Pathogen[ Q2Q067] interacts with 1 human partners:{P10827}

10940 Pathogen[ P03346] interacts with 1 human partners:{P10827}

10941 Pathogen[ Q85601] interacts with 1 human partners:{P10827}

10942 Pathogen[ P14079] interacts with 1 human partners:{P10827}

10943 Pathogen[ P0C206] interacts with 1 human partners:{P10827}

10944 [Cluster 1749]GO:0090272+P biological\_process [name] negative regulation of fibroblast growth factor production [def] "Any process that decreases the rate, frequency or extent of the appearance of a fibroblast growth factor due to biosynthesis or secretion following a cellular stimulus, resulting in an increase in its intracellular or extracellular levels." [GOC

10945 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9H4X1}

10946 Pathogen[ P0C214] interacts with 1 human partners:{Q9H4X1}

10947 Pathogen[ P03346] interacts with 1 human partners:{Q9H4X1}

10948 Pathogen[ Q85601] interacts with 1 human partners:{Q9H4X1}

10949 Pathogen[ P03383] interacts with 1 human partners:{Q9H4X1}

10950 Pathogen[ P03410] interacts with 1 human partners:{Q9H4X1}

10951 Pathogen[ P14075] interacts with 1 human partners:{Q9H4X1}

10952 Pathogen[ P0C206] interacts with 1 human partners:{Q9H4X1}

10953 Pathogen[ P03363] interacts with 1 human partners:{Q9H4X1}

10954 [Cluster 1750]GO:1901216+P  
10955 Pathogen[ P14079] interacts with 1 human partners:{Q9NX09}  
10956 Pathogen[ P03410] interacts with 1 human partners:{Q9NX09}  
10957 [Cluster 1751]GO:0006147+P biological\_process [name] guanine catabolic process  
[def] "The chemical reactions and pathways resulting in the breakdown of guanine, 2-amino-6-hydroxypurine, a purine that is one of the five main bases found in nucleic acids and a component of a number of phosphorylated guanosine derivatives whose metabolic or regulatory functions are important." [GOC  
10958 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y2T3}  
10959 Pathogen[ P14079] interacts with 1 human partners:{Q9Y2T3}  
10960 Pathogen[ P03410] interacts with 1 human partners:{Q9Y2T3}  
10961 [Cluster 1752]GO:0035567+P biological\_process [name] non-canonical Wnt receptor signaling pathway [def] "The series of molecular signals initiated by binding of a Wnt protein to a frizzled family receptor on the surface of the target cell, followed by propagation of the signal via effectors other than beta-catenin." [GOC  
10962 Pathogen[ Q2Q067] interacts with 1 human partners:{O14641}  
10963 Pathogen[ P0C214] interacts with 1 human partners:{O14641}  
10964 Pathogen[ P03346] interacts with 1 human partners:{O14641}  
10965 Pathogen[ Q85601] interacts with 1 human partners:{O14641}  
10966 Pathogen[ P14079] interacts with 1 human partners:{O14641}  
10967 Pathogen[ P03383] interacts with 1 human partners:{O14641}  
10968 Pathogen[ P03410] interacts with 1 human partners:{O14641}  
10969 Pathogen[ P14075] interacts with 1 human partners:{O14641}  
10970 Pathogen[ P03363] interacts with 1 human partners:{O14641}  
10971 [Cluster 1753]GO:0032274+P biological\_process [name] gonadotropin secretion [def] "The regulated release of a gonadotropin, any hormone that stimulates the gonads, especially follicle-stimulating hormone and luteinizing hormone." [GOC  
10972 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UI56}  
10973 Pathogen[ P0C214] interacts with 1 human partners:{Q9UI56}  
10974 Pathogen[ P03346] interacts with 1 human partners:{Q9UI56}  
10975 Pathogen[ P14079] interacts with 1 human partners:{Q9UI56}  
10976 Pathogen[ P03383] interacts with 1 human partners:{Q9UI56}  
10977 Pathogen[ P03410] interacts with 1 human partners:{Q9UI56}  
10978 Pathogen[ P14075] interacts with 1 human partners:{Q9UI56}  
10979 Pathogen[ P0C206] interacts with 1 human partners:{Q9UI56}  
10980 Pathogen[ P03363] interacts with 1 human partners:{Q9UI56}  
10981 [Cluster 1754]GO:0060574+P biological\_process [name] intestinal epithelial cell maturation [def] "The developmental process, independent of morphogenetic (shape) change, that is required for a columnar/cuboidal epithelial cell of the intestine to attain its fully functional state. A columnar/cuboidal epithelial cell of the intestine mature as they migrate from the intestinal crypt to the villus." [GOC  
10982 Pathogen[ Q2Q067] interacts with 2 human partners:{P20719;P04818}  
10983 Pathogen[ P0C214] interacts with 1 human partners:{P04818}  
10984 Pathogen[ P03346] interacts with 1 human partners:{P20719}  
10985 Pathogen[ P14079] interacts with 1 human partners:{P04818}  
10986 Pathogen[ P03410] interacts with 1 human partners:{P04818}  
10987 Pathogen[ P0C206] interacts with 2 human partners:{P04818;P20719}  
10988 Pathogen[ P03363] interacts with 1 human partners:{P20719}  
10989 [Cluster 1755]GO:0071318+P biological\_process [name] cellular response to ATP [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an ATP (adenosine 5'-triphosphate) stimulus." [GOC  
10990 Pathogen[ Q2Q067] interacts with 1 human partners:{P14625}  
10991 Pathogen[ P0C214] interacts with 2 human partners:{P14625;Q96GD0}  
10992 Pathogen[ P03346] interacts with 1 human partners:{P14625}  
10993 Pathogen[ Q85601] interacts with 1 human partners:{P14625}  
10994 Pathogen[ P14079] interacts with 2 human partners:{Q96GD0;P14625}  
10995 Pathogen[ P03383] interacts with 1 human partners:{P14625}  
10996 Pathogen[ P03410] interacts with 2 human partners:{P14625;Q96GD0}  
10997 Pathogen[ P14075] interacts with 1 human partners:{P14625}  
10998 Pathogen[ P0C206] interacts with 2 human partners:{Q96GD0;P14625}  
10999 [Cluster 1756]GO:0051177+P biological\_process [name] meiotic sister chromatid cohesion [def] "The cell cycle process in which sister chromatids of a replicated chromosome are joined along the entire length of the chromosome during meiosis." [GOC  
11000 Pathogen[ P0C214] interacts with 1 human partners:{Q8N7B1}  
11001 Pathogen[ P03346] interacts with 1 human partners:{Q8N7B1}  
11002 Pathogen[ Q85601] interacts with 1 human partners:{Q8N7B1}  
11003 Pathogen[ P14079] interacts with 2 human partners:{Q86X24;Q8N7B1}  
11004 Pathogen[ P03410] interacts with 1 human partners:{Q8N7B1}  
11005 Pathogen[ P14075] interacts with 1 human partners:{Q8N7B1}  
11006 Pathogen[ P0C206] interacts with 1 human partners:{Q8N7B1}  
11007 Pathogen[ P03363] interacts with 1 human partners:{Q8N7B1}  
11008 [Cluster 1757]GO:0015909+P biological\_process [name] long-chain fatty acid transport [def] "The directed movement of long-chain fatty acids into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore. A long-chain fatty acid is an aliphatic compound with a terminal carboxyl group and with a chain length

greater than C12." [GOC

11009 Pathogen[ Q2Q067] interacts with 1 human partners:{P05413}

11010 Pathogen[ POC214] interacts with 1 human partners:{P05413}

11011 Pathogen[ P03346] interacts with 2 human partners:{P05413;P07148}

11012 Pathogen[ Q85601] interacts with 1 human partners:{P05413}

11013 Pathogen[ P14079] interacts with 2 human partners:{P05413;Q99541}

11014 Pathogen[ P03410] interacts with 1 human partners:{P05413}

11015 Pathogen[ POC206] interacts with 1 human partners:{P05413}

11016 Pathogen[ P03363] interacts with 1 human partners:{P05413}

11017 [Cluster 1758]GO:0035021+P biological\_process [name] negative regulation of Rac protein signal transduction [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of Rac protein signal transduction." [GOC

11018 Pathogen[ P14079] interacts with 1 human partners:{Q9NZ72}

11019 Pathogen[ P03410] interacts with 1 human partners:{Q9NZ72}

11020 Pathogen[ POC206] interacts with 1 human partners:{Q9NZ72}

11021 [Cluster 1759]GO:0032691+P biological\_process [name] negative regulation of interleukin-1 beta production [def] "Any process that stops, prevents, or reduces the frequency, rate, or extent of interleukin-1 beta production." [GOC

11022 Pathogen[ P14079] interacts with 1 human partners:{O15553}

11023 [Cluster 1760]GO:0006825+P biological\_process [name] copper ion transport [def] "The directed movement of copper (Cu) ions into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore." [GOC

11024 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NTM9}

11025 Pathogen[ POC214] interacts with 2 human partners:{Q9NTM9;Q14061}

11026 Pathogen[ P03346] interacts with 1 human partners:{Q9NTM9}

11027 Pathogen[ Q85601] interacts with 1 human partners:{Q14061}

11028 Pathogen[ P14079] interacts with 5 human partners:{Q9NTM9;Q14061;O75880;O00244;O43819}

11029 Pathogen[ P03410] interacts with 4 human partners:{Q14061;Q9NTM9;O75880;O43819}

11030 Pathogen[ P14075] interacts with 2 human partners:{Q9NTM9;Q14061}

11031 Pathogen[ POC206] interacts with 2 human partners:{Q14061;Q9NTM9}

11032 Pathogen[ P03363] interacts with 1 human partners:{Q9NTM9}

11033 [Cluster 1761]GO:2000773+P biological\_process [name] negative regulation of cellular senescence [def] "Any process that stops, prevents or reduces the frequency, rate or extent of cellular senescence." [GOC

11034 Pathogen[ Q2Q067] interacts with 1 human partners:{Q00534}

11035 Pathogen[ POC214] interacts with 1 human partners:{Q00534}

11036 Pathogen[ P03346] interacts with 1 human partners:{Q00534}

11037 Pathogen[ Q85601] interacts with 1 human partners:{Q00534}

11038 Pathogen[ P03383] interacts with 1 human partners:{Q00534}

11039 Pathogen[ P03410] interacts with 1 human partners:{Q00534}

11040 Pathogen[ P14075] interacts with 1 human partners:{Q00534}

11041 Pathogen[ POC206] interacts with 1 human partners:{Q00534}

11042 Pathogen[ P03363] interacts with 1 human partners:{Q00534}

11043 [Cluster 1762]GO:0034720+P biological\_process [name] histone H3-K4 demethylation [def] "The modification of histone H3 by the removal of a methyl group from lysine at position 4 of the histone." [GOC

11044 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9H6W3}

11045 Pathogen[ POC214] interacts with 1 human partners:{Q9H6W3}

11046 Pathogen[ P03346] interacts with 2 human partners:{Q9UGL1;Q9H6W3}

11047 Pathogen[ Q85601] interacts with 1 human partners:{Q9H6W3}

11048 Pathogen[ P14079] interacts with 1 human partners:{Q9H6W3}

11049 Pathogen[ P03383] interacts with 1 human partners:{Q9H6W3}

11050 Pathogen[ P03410] interacts with 1 human partners:{Q9H6W3}

11051 Pathogen[ P14075] interacts with 1 human partners:{Q9H6W3}

11052 Pathogen[ POC206] interacts with 1 human partners:{Q9H6W3}

11053 [Cluster 1763]GO:0031125+P biological\_process [name] rRNA 3'-end processing [def] "Any process involved in forming the mature 3' end of an rRNA molecule." [GOC

11054 Pathogen[ POC214] interacts with 1 human partners:{Q8IV48}

11055 Pathogen[ P14079] interacts with 1 human partners:{Q8IV48}

11056 Pathogen[ P03410] interacts with 1 human partners:{Q8IV48}

11057 Pathogen[ POC206] interacts with 1 human partners:{Q8IV48}

11058 [Cluster 1764]GO:0006655+P biological\_process [name] phosphatidylglycerol biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of phosphatidylglycerols, any of a class of phospholipids in which the phosphatidyl group is esterified to the hydroxyl group of glycerol." [ISBN

11059 Pathogen[ P14079] interacts with 1 human partners:{Q32NB8}

11060 [Cluster 1765]GO:0046513+P biological\_process [name] ceramide biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of ceramides, any N-acylated sphingoid." [GOC

11061 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96G23}

11062 Pathogen[ POC214] interacts with 2 human partners:{Q9HA82;Q96G23}

11063 Pathogen[ P03346] interacts with 1 human partners:{Q96G23}

11064 Pathogen[ Q85601] interacts with 1 human partners:{Q96G23}

11065 Pathogen[ P14079] interacts with 5 human partners:{Q9NXC4;Q9HA82;P27544;Q96G23;P17405}



11066 Pathogen[ P03410] interacts with 6 human partners:{P27544;Q9NXE4;Q96G23;Q9HA82;Q9UBY8;P17405}

11067 Pathogen[ P0C206] interacts with 2 human partners:{Q96G23;Q9HA82}

11068 Pathogen[ P03363] interacts with 1 human partners:{Q96G23}

11069 [Cluster 1766]GO:0006865+P biological\_process [name] amino acid transport [def] "The directed movement of amino acids, organic acids containing one or more amino substituents, into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore." [GOC

11070 Pathogen[ P14079] interacts with 1 human partners:{P51811}

11071 Pathogen[ P03410] interacts with 1 human partners:{P51811}

11072 [Cluster 1767]GO:0048667+P biological\_process [name] cell morphogenesis involved in neuron differentiation [def] "The process in which the structures of a neuron are generated and organized. This process occurs while the initially relatively unspecialized cell is acquiring the specialized features of a neuron." [GOC

11073 Pathogen[ Q2Q067] interacts with 1 human partners:{P06400}

11074 Pathogen[ P0C214] interacts with 1 human partners:{P06400}

11075 Pathogen[ P03346] interacts with 3 human partners:{O75592;P50219;P06400}

11076 Pathogen[ Q85601] interacts with 1 human partners:{P06400}

11077 Pathogen[ P03383] interacts with 1 human partners:{P06400}

11078 Pathogen[ P03410] interacts with 1 human partners:{P06400}

11079 Pathogen[ P14075] interacts with 1 human partners:{P06400}

11080 Pathogen[ P0C206] interacts with 1 human partners:{P06400}

11081 Pathogen[ P03363] interacts with 2 human partners:{P06400;P50219}

11082 [Cluster 1768]GO:0051152+P biological\_process [name] positive regulation of smooth muscle cell differentiation [def] "Any process that activates or increases the frequency, rate or extent of smooth muscle cell differentiation." [CL

11083 Pathogen[ Q2Q067] interacts with 1 human partners:{Q63HK5}

11084 Pathogen[ P0C214] interacts with 1 human partners:{Q63HK5}

11085 Pathogen[ P03346] interacts with 1 human partners:{Q63HK5}

11086 Pathogen[ Q85601] interacts with 1 human partners:{Q63HK5}

11087 Pathogen[ P14079] interacts with 1 human partners:{Q63HK5}

11088 Pathogen[ P03410] interacts with 1 human partners:{Q63HK5}

11089 Pathogen[ P0C206] interacts with 1 human partners:{Q63HK5}

11090 Pathogen[ P03363] interacts with 1 human partners:{Q63HK5}

11091 [Cluster 1769]GO:0072092+P biological\_process [name] ureteric bud invasion [def] "The process in which the ureteric bud grows along its axis and contributes to the formation of the metanephros." [GOC

11092 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NSC2}

11093 Pathogen[ P0C214] interacts with 1 human partners:{Q9NSC2}

11094 Pathogen[ P03346] interacts with 1 human partners:{Q9NSC2}

11095 Pathogen[ Q85601] interacts with 1 human partners:{Q9NSC2}

11096 Pathogen[ P14079] interacts with 1 human partners:{Q9NSC2}

11097 Pathogen[ P03383] interacts with 1 human partners:{Q9NSC2}

11098 Pathogen[ P03410] interacts with 1 human partners:{Q9NSC2}

11099 Pathogen[ P14075] interacts with 1 human partners:{Q9NSC2}

11100 Pathogen[ P0C206] interacts with 1 human partners:{Q9NSC2}

11101 [Cluster 1770]GO:0060736+P biological\_process [name] prostate gland growth [def] "The increase in size or mass of the prostate gland where the increase in size or mass has the specific outcome of the progression of the gland, from its formation to its mature state." [GOC

11102 Pathogen[ Q2Q067] interacts with 1 human partners:{Q05086}

11103 Pathogen[ P0C214] interacts with 1 human partners:{Q05086}

11104 Pathogen[ P03346] interacts with 1 human partners:{Q05086}

11105 Pathogen[ Q85601] interacts with 1 human partners:{Q05086}

11106 Pathogen[ P0C206] interacts with 1 human partners:{Q05086}

11107 Pathogen[ P03363] interacts with 1 human partners:{Q05086}

11108 [Cluster 1771]GO:0006123+P biological\_process [name] mitochondrial electron transport, cytochrome c to oxygen [def] "The transfer of electrons from cytochrome c to oxygen that occurs during oxidative phosphorylation, mediated by the multisubunit enzyme known as complex IV." [ISBN

11109 Pathogen[ P14079] interacts with 3 human partners:{Q12887;P00395;P00403}

11110 Pathogen[ P03410] interacts with 2 human partners:{P00403;Q12887}

11111 [Cluster 1772]GO:0002036+P biological\_process [name] regulation of L-glutamate transport [def] "Any process that modulates the frequency, rate or extent of L-glutamate transport." [GOC

11112 Pathogen[ P03346] interacts with 1 human partners:{Q15019}

11113 Pathogen[ P0C206] interacts with 1 human partners:{Q15019}

11114 [Cluster 1773]GO:0050992+P biological\_process [name] dimethylallyl diphosphate biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of dimethylallyl diphosphate." [GOC

11115 Pathogen[ P0C214] interacts with 2 human partners:{Q13907;Q9BXS1}

11116 Pathogen[ Q85601] interacts with 1 human partners:{Q13907}

11117 Pathogen[ P14079] interacts with 2 human partners:{Q9BXS1;Q13907}

11118 Pathogen[ P03410] interacts with 2 human partners:{Q13907;Q9BXS1}

11119 Pathogen[ P0C206] interacts with 2 human partners:{Q13907;Q9BXS1}

11120 [Cluster 1774]GO:0061028+P biological\_process [name] establishment of endothelial

barrier [def] "The establishment of a barrier between endothelial cell layers, such as those in the brain, lung or intestine, to exert specific and selective control over the passage of water and solutes, thus allowing formation and maintenance of compartments that differ in fluid and solute composition." [GOC

11121 Pathogen[ P03346] interacts with 1 human partners:{P35713}

11122 [Cluster 1775]GO:0042167+P biological\_process [name] heme catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of heme, any compound of iron complexed in a porphyrin (tetrapyrrole) ring." [GOC

11123 Pathogen[ P0C214] interacts with 1 human partners:{P30043}

11124 [Cluster 1776]GO:2001171+P biological\_process [name] positive regulation of ATP biosynthetic process [def] "Any process that activates or increases the frequency, rate or extent of ATP biosynthetic process." [GOC

11125 Pathogen[ Q2Q067] interacts with 1 human partners:{Q7Z2X4}

11126 Pathogen[ P0C214] interacts with 1 human partners:{Q7Z2X4}

11127 Pathogen[ P03346] interacts with 1 human partners:{Q7Z2X4}

11128 Pathogen[ Q85601] interacts with 1 human partners:{Q7Z2X4}

11129 Pathogen[ P14079] interacts with 1 human partners:{Q7Z2X4}

11130 Pathogen[ P03410] interacts with 1 human partners:{Q7Z2X4}

11131 Pathogen[ P0C206] interacts with 1 human partners:{Q7Z2X4}

11132 [Cluster 1777]GO:0006107+P biological\_process [name] oxaloacetate metabolic process [def] "The chemical reactions and pathways involving oxaloacetate, the anion of oxobutanedioic acid, an important intermediate in metabolism, especially as a component of the TCA cycle." [ISBN

11133 Pathogen[ Q2Q067] interacts with 1 human partners:{P40926}

11134 Pathogen[ P0C214] interacts with 4 human partners:{P35558;O75390;P40926;Q16822}

11135 Pathogen[ P03346] interacts with 2 human partners:{O75390;P40926}

11136 Pathogen[ Q85601] interacts with 1 human partners:{P40926}

11137 Pathogen[ P03383] interacts with 2 human partners:{P40926;Q16822}

11138 Pathogen[ P03410] interacts with 3 human partners:{Q16822;P40926;O75390}

11139 Pathogen[ P14075] interacts with 2 human partners:{Q16822;P40926}

11140 Pathogen[ P0C206] interacts with 3 human partners:{Q16822;P40926;O75390}

11141 [Cluster 1778]GO:0044524+P

11142 Pathogen[ Q2Q067] interacts with 1 human partners:{P32929}

11143 Pathogen[ P0C214] interacts with 1 human partners:{P32929}

11144 Pathogen[ P03346] interacts with 1 human partners:{P32929}

11145 Pathogen[ Q85601] interacts with 1 human partners:{P32929}

11146 Pathogen[ P14079] interacts with 1 human partners:{P32929}

11147 Pathogen[ P03410] interacts with 1 human partners:{P32929}

11148 Pathogen[ P0C206] interacts with 1 human partners:{P32929}

11149 [Cluster 1779]GO:0070995+P biological\_process [name] NADPH oxidation [def] "A metabolic process that results in the oxidation of reduced nicotinamide adenine dinucleotide, NADPH, to the oxidized form, NADP." [GOC

11150 Pathogen[ P14079] interacts with 1 human partners:{P10109}

11151 Pathogen[ P03410] interacts with 1 human partners:{P10109}

11152 [Cluster 1780]GO:0048560+P biological\_process [name] establishment of anatomical structure orientation [def] "The process that determines the orientation of an anatomical structure with reference to an axis." [GOC

11153 Pathogen[ P03346] interacts with 1 human partners:{Q8TAM2}

11154 Pathogen[ P14079] interacts with 1 human partners:{Q8TAM2}

11155 Pathogen[ P03410] interacts with 1 human partners:{Q8TAM2}

11156 Pathogen[ P0C206] interacts with 1 human partners:{Q8TAM2}

11157 Pathogen[ P03363] interacts with 1 human partners:{Q8TAM2}

11158 [Cluster 1781]GO:0071544+P biological\_process [name] diphosphoinositol polyphosphate catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of a diphosphoinositol polyphosphate, 1,2,3,4,5,6-cyclohexanehexol with one or more diphosphate groups and multiple monophosphate groups attached." [GOC

11159 Pathogen[ P0C214] interacts with 1 human partners:{O95989}

11160 Pathogen[ Q85601] interacts with 1 human partners:{O95989}

11161 Pathogen[ P14079] interacts with 1 human partners:{O95989}

11162 Pathogen[ P03383] interacts with 1 human partners:{O95989}

11163 Pathogen[ P03410] interacts with 1 human partners:{O95989}

11164 Pathogen[ P14075] interacts with 1 human partners:{O95989}

11165 Pathogen[ P0C206] interacts with 1 human partners:{O95989}

11166 [Cluster 1782]GO:0097222+P

11167 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8TCS8}

11168 Pathogen[ P0C214] interacts with 1 human partners:{Q8TCS8}

11169 Pathogen[ P03346] interacts with 1 human partners:{Q8TCS8}

11170 Pathogen[ Q85601] interacts with 1 human partners:{Q8TCS8}

11171 Pathogen[ P14079] interacts with 1 human partners:{Q8TCS8}

11172 Pathogen[ P03383] interacts with 1 human partners:{Q8TCS8}

11173 Pathogen[ P03410] interacts with 1 human partners:{Q8TCS8}

11174 Pathogen[ P14075] interacts with 1 human partners:{Q8TCS8}

11175 Pathogen[ P0C206] interacts with 1 human partners:{Q8TCS8}

11176 [Cluster 1783]GO:0021782+P biological\_process [name] glial cell development [def] "The process aimed at the progression of a glial cell over time, from initial commitment of the cell to a specific fate, to the fully functional differentiated cell." [GO\_REF

11177 Pathogen[ P03346] interacts with 1 human partners:{Q06945}

11178 [Cluster 1784]GO:0048332+P biological\_process [name] mesoderm morphogenesis [def] "The process in which the anatomical structures of the mesoderm are generated and organized." [GOC]

11179 Pathogen[ P03346] interacts with 1 human partners:{Q9BYW2}

11180 [Cluster 1785]GO:0060217+P biological\_process [name] hemangioblast cell differentiation [def] "The process in which a relatively unspecialized cell acquires the characteristics of a mature hemangioblast. Hemangioblasts are the proposed common precursor of blood and endothelial lineages." [GOC]

11181 Pathogen[ P03346] interacts with 1 human partners:{P17542}

11182 [Cluster 1786]GO:0007616+P biological\_process [name] long-term memory [def] "The memory process that deals with the storage, retrieval and modification of information a long time (typically weeks, months or years) after receiving that information. This type of memory is typically dependent on gene transcription regulated by second messenger activation." [http]

11183 Pathogen[ Q2Q067] interacts with 1 human partners:{P11831}

11184 Pathogen[ P0C214] interacts with 1 human partners:{P11831}

11185 Pathogen[ P03346] interacts with 1 human partners:{P11831}

11186 Pathogen[ Q85601] interacts with 1 human partners:{P11831}

11187 Pathogen[ P03383] interacts with 1 human partners:{P11831}

11188 Pathogen[ P03410] interacts with 1 human partners:{P11831}

11189 Pathogen[ P14075] interacts with 1 human partners:{P11831}

11190 Pathogen[ P0C206] interacts with 1 human partners:{P11831}

11191 Pathogen[ P03363] interacts with 1 human partners:{P11831}

11192 [Cluster 1787]GO:0031577+P biological\_process [name] spindle checkpoint [def] "A cell cycle checkpoint that delays progression through the metaphase/anaphase transition until the spindle is correctly assembled and oriented, and chromosomes are attached to the spindle." [GOC]

11193 Pathogen[ Q2Q067] interacts with 1 human partners:{O15392}

11194 Pathogen[ P0C214] interacts with 1 human partners:{O15392}

11195 Pathogen[ P03346] interacts with 1 human partners:{O15392}

11196 Pathogen[ Q85601] interacts with 1 human partners:{O15392}

11197 Pathogen[ P14079] interacts with 1 human partners:{O15392}

11198 Pathogen[ P03410] interacts with 1 human partners:{O15392}

11199 Pathogen[ P0C206] interacts with 1 human partners:{O15392}

11200 [Cluster 1788]GO:0032313+P biological\_process [name] regulation of Rab GTPase activity [def] "Any process that modulates the activity of a GTPase of the Rab family." [GOC]

11201 Pathogen[ P03346] interacts with 1 human partners:{O60447}

11202 Pathogen[ Q85601] interacts with 1 human partners:{O60447}

11203 Pathogen[ P03410] interacts with 1 human partners:{O60447}

11204 Pathogen[ P0C206] interacts with 1 human partners:{O60447}

11205 Pathogen[ P03363] interacts with 1 human partners:{O60447}

11206 [Cluster 1789]GO:0042450+P biological\_process [name] arginine biosynthetic process via ornithine [def] "The chemical reactions and pathways resulting in the formation of arginine (2-amino-5-guanidinopentanoic acid) via the intermediate compound ornithine." [GOC]

11207 Pathogen[ P0C214] interacts with 1 human partners:{P04424}

11208 Pathogen[ P14079] interacts with 1 human partners:{P04424}

11209 Pathogen[ P03410] interacts with 1 human partners:{P04424}

11210 [Cluster 1790]GO:0071372+P biological\_process [name] cellular response to follicle-stimulating hormone stimulus [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a follicle-stimulating hormone stimulus." [GOC]

11211 Pathogen[ Q2Q067] interacts with 1 human partners:{P15976}

11212 Pathogen[ P03346] interacts with 1 human partners:{P15976}

11213 Pathogen[ Q85601] interacts with 1 human partners:{P15976}

11214 Pathogen[ P14079] interacts with 1 human partners:{P15976}

11215 Pathogen[ P03410] interacts with 1 human partners:{P15976}

11216 Pathogen[ P0C206] interacts with 1 human partners:{P15976}

11217 [Cluster 1791]GO:0032695+P biological\_process [name] negative regulation of interleukin-12 production [def] "Any process that stops, prevents, or reduces the frequency, rate, or extent of interleukin-12 production." [GOC]

11218 Pathogen[ P14079] interacts with 1 human partners:{O15553}

11219 [Cluster 1792]GO:0006579+P biological\_process [name] betaine catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of any betaine, the N-trimethyl derivative of an amino acid." [GOC]

11220 Pathogen[ P0C214] interacts with 1 human partners:{Q9UI17}

11221 Pathogen[ P14079] interacts with 2 human partners:{Q9UI17;Q9H2M3}

11222 Pathogen[ P03410] interacts with 2 human partners:{Q9UI17;Q9H2M3}

11223 Pathogen[ P0C206] interacts with 1 human partners:{Q9H2M3}

11224 [Cluster 1793]GO:0002357+P biological\_process [name] defense response to tumor cell [def] "Reactions triggered in response to the presence of a tumor cell that act to protect the cell or organism." [GOC]

11225 Pathogen[ P03346] interacts with 1 human partners:{Q496M5}

11226 Pathogen[ Q85601] interacts with 1 human partners:{Q496M5}

11227 Pathogen[ P0C206] interacts with 1 human partners:{Q496M5}

11228 [Cluster 1794]GO:0014806+P biological\_process [name] smooth muscle hyperplasia  
[def] "A process, occurring in smooth muscle, in which there is an increase in cell number by cell division, often leading to an increase in the size of an organ." [GOC

11229 Pathogen[ Q2Q067] interacts with 1 human partners:{P29474}

11230 Pathogen[ P0C214] interacts with 1 human partners:{P29474}

11231 Pathogen[ P03346] interacts with 1 human partners:{P29474}

11232 Pathogen[ Q85601] interacts with 1 human partners:{P29474}

11233 Pathogen[ P03383] interacts with 1 human partners:{P29474}

11234 Pathogen[ P03410] interacts with 1 human partners:{P29474}

11235 Pathogen[ P14075] interacts with 1 human partners:{P29474}

11236 Pathogen[ P0C206] interacts with 1 human partners:{P29474}

11237 Pathogen[ P03363] interacts with 1 human partners:{P29474}

11238 [Cluster 1795]GO:0060972+P biological\_process [name] left/right pattern formation  
[def] "The pattern specification process that results in the subdivision of the left/right axis in space to define an area or volume in which specific patterns of cell differentiation will take place or in which cells interpret a specific environment." [GOC

11239 Pathogen[ P03346] interacts with 1 human partners:{O95863}

11240 Pathogen[ P14079] interacts with 1 human partners:{Q9BVM2}

11241 Pathogen[ P03410] interacts with 1 human partners:{Q9BVM2}

11242 Pathogen[ P14075] interacts with 1 human partners:{Q9BVM2}

11243 Pathogen[ P0C206] interacts with 1 human partners:{Q9BVM2}

11244 [Cluster 1796]GO:0048769+P biological\_process [name] sarcomerogenesis [def] "The process in which sarcomeres are added in series within a fiber." [GOC

11245 Pathogen[ P14079] interacts with 1 human partners:{O15273}

11246 Pathogen[ P03410] interacts with 1 human partners:{O15273}

11247 [Cluster 1797]GO:0006550+P biological\_process [name] isoleucine catabolic process  
[def] "The chemical reactions and pathways resulting in the breakdown of isoleucine, (2R\*,3R\*)-2-amino-3-methylpentanoic acid." [GOC

11248 Pathogen[ P0C214] interacts with 1 human partners:{O15382}

11249 Pathogen[ Q85601] interacts with 1 human partners:{O15382}

11250 Pathogen[ P14079] interacts with 1 human partners:{O15382}

11251 Pathogen[ P03410] interacts with 1 human partners:{O15382}

11252 Pathogen[ P0C206] interacts with 1 human partners:{O15382}

11253 [Cluster 1798]GO:0039023+P biological\_process [name] pronephric duct morphogenesis  
[def] "The process in which the anatomical structures of the pronephric duct are generated and organized. The pronephric duct collects the filtrate from the pronephric tubules and opens to the exterior of the kidney." [GOC

11254 Pathogen[ P03346] interacts with 1 human partners:{Q8N157}

11255 Pathogen[ P14079] interacts with 1 human partners:{Q8N157}

11256 Pathogen[ P03410] interacts with 1 human partners:{Q8N157}

11257 Pathogen[ P0C206] interacts with 1 human partners:{Q8N157}

11258 Pathogen[ P03363] interacts with 1 human partners:{Q8N157}

11259 [Cluster 1799]GO:0032412+P biological\_process [name] regulation of ion transmembrane transporter activity [def] "Any process that modulates the activity of an ion transporter." [GOC

11260 Pathogen[ P0C214] interacts with 1 human partners:{O43865}

11261 Pathogen[ P03346] interacts with 1 human partners:{O43865}

11262 Pathogen[ Q85601] interacts with 1 human partners:{O43865}

11263 Pathogen[ P14079] interacts with 1 human partners:{O43865}

11264 Pathogen[ P03410] interacts with 1 human partners:{O43865}

11265 Pathogen[ P0C206] interacts with 1 human partners:{O43865}

11266 Pathogen[ P03363] interacts with 1 human partners:{O43865}

11267 [Cluster 1800]GO:0009263+P biological\_process [name] deoxyribonucleotide biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of a deoxyribonucleotide, a compound consisting of deoxyribonucleoside (a base linked to a deoxyribose sugar) esterified with a phosphate group at either the 3' or 5'-hydroxyl group of the sugar." [GOC

11268 Pathogen[ Q2Q067] interacts with 2 human partners:{P31350;Q7LG56}

11269 Pathogen[ P0C214] interacts with 3 human partners:{P31350;P23921;Q7LG56}

11270 Pathogen[ P03346] interacts with 2 human partners:{P31350;Q7LG56}

11271 Pathogen[ Q85601] interacts with 2 human partners:{P31350;Q7LG56}

11272 Pathogen[ P14079] interacts with 2 human partners:{P31350;Q7LG56}

11273 Pathogen[ P03383] interacts with 1 human partners:{P31350}

11274 Pathogen[ P03410] interacts with 3 human partners:{P31350;P23921;Q7LG56}

11275 Pathogen[ P14075] interacts with 1 human partners:{P31350}

11276 Pathogen[ P0C206] interacts with 2 human partners:{Q7LG56;P31350}

11277 [Cluster 1801]GO:0006621+P biological\_process [name] protein retention in ER lumen [def] "The retention in the endoplasmic reticulum (ER) lumen of soluble resident proteins. Sorting receptors retrieve proteins with ER localization signals, such as KDEL and HDEL sequences or some transmembrane domains, that have escaped to the cis-Golgi network and return them to the ER. Abnormally folded proteins and unassembled subunits are also selectively retained in the ER." [ISBN

11278 Pathogen[ P03346] interacts with 1 human partners:{Q13438}

11279 Pathogen[ P14079] interacts with 5 human partners:{O43292;P33947;P24390;Q13438;O43731}

11280 Pathogen[ P03410] interacts with 4 human partners:{P33947;P24390;O43731;Q13438}

11281 Pathogen[ P0C206] interacts with 4 human partners:{P33947;P24390;O43731;Q13438}

11282 Pathogen[ P03363] interacts with 1 human partners:{Q13438}

11283 [Cluster 1802]GO:0001573+P biological\_process [name] ganglioside metabolic process [def] "The chemical reactions and pathways involving ceramide oligosaccharides carrying in addition to other sugar residues, one or more sialic acid residues." [ISBN

11284 Pathogen[ P14079] interacts with 1 human partners:{Q9NWW5}

11285 Pathogen[ P03410] interacts with 1 human partners:{Q9NWW5}

11286 [Cluster 1803]GO:0061088+P biological\_process [name] regulation of sequestering of zinc ion [def] "Any process that modulates the rate, frequency, or extent of sequestering of zinc ion. Sequestering of zinc ion is the process of binding or confining zinc ions such that they are separated from other components of a biological system." [GOC

11287 Pathogen[ P03346] interacts with 1 human partners:{O14617}

11288 Pathogen[ P14079] interacts with 1 human partners:{O14617}

11289 Pathogen[ P03410] interacts with 1 human partners:{O14617}

11290 Pathogen[ P0C206] interacts with 1 human partners:{O14617}

11291 [Cluster 1804]GO:0035721+P biological\_process [name] intraflagellar retrograde transport [def] "The directed movement of large protein complexes along microtubules from the tip of a cilium or flagellum toward the cell body, mediated by motor proteins." [GOC

11292 Pathogen[ P03346] interacts with 1 human partners:{Q96FT9}

11293 Pathogen[ P14079] interacts with 1 human partners:{Q96FT9}

11294 Pathogen[ P03410] interacts with 1 human partners:{Q96FT9}

11295 Pathogen[ P0C206] interacts with 1 human partners:{Q96FT9}

11296 Pathogen[ P03363] interacts with 1 human partners:{Q96FT9}

11297 [Cluster 1805]GO:0090314+P biological\_process [name] positive regulation of protein targeting to membrane [def] "Any process that increases the frequency, rate or extent of the process of directing proteins towards a membrane, usually using signals contained within the protein." [GOC

11298 Pathogen[ P14079] interacts with 1 human partners:{Q15078}

11299 [Cluster 1806]GO:0032597+P biological\_process [name] B cell receptor transport into membrane raft [def] "The directed movement of a B cell receptor into a membrane raft." [GOC

11300 Pathogen[ Q2Q067] interacts with 1 human partners:{P25063}

11301 Pathogen[ P0C214] interacts with 1 human partners:{P25063}

11302 Pathogen[ P03346] interacts with 1 human partners:{P25063}

11303 Pathogen[ P14079] interacts with 1 human partners:{P25063}

11304 Pathogen[ P03383] interacts with 1 human partners:{P25063}

11305 Pathogen[ P03410] interacts with 1 human partners:{P25063}

11306 Pathogen[ P14075] interacts with 1 human partners:{P25063}

11307 Pathogen[ P0C206] interacts with 1 human partners:{P25063}

11308 [Cluster 1807]GO:0060669+P biological\_process [name] embryonic placenta morphogenesis [def] "The process in which the embryonic placenta is generated and organized." [GOC

11309 Pathogen[ P03346] interacts with 2 human partners:{Q13263;Q9BYW2}

11310 Pathogen[ Q85601] interacts with 1 human partners:{Q13263}

11311 Pathogen[ P0C206] interacts with 1 human partners:{Q13263}

11312 [Cluster 1808]GO:0036003+P biological\_process [name] positive regulation of transcription from RNA polymerase II promoter in response to stress [def] "Any process that increases the frequency, rate or extent of transcription from an RNA polymerase II promoter as a result of a stimulus indicating the organism is under stress. The stress is usually, but not necessarily, exogenous (e.g. temperature, humidity, ionizing radiation)." [GOC

11313 Pathogen[ P14079] interacts with 1 human partners:{P15941}

11314 Pathogen[ P03410] interacts with 1 human partners:{P15941}

11315 [Cluster 1809]GO:0051901+P biological\_process [name] positive regulation of mitochondrial depolarization [def] "Any process that activates, maintains or increases the frequency, rate or extent of the change in the membrane potential of the mitochondria from negative to positive." [GOC

11316 Pathogen[ P0C214] interacts with 2 human partners:{Q13015;P18054}

11317 Pathogen[ P03346] interacts with 2 human partners:{P18054;Q13015}

11318 Pathogen[ Q85601] interacts with 1 human partners:{Q13015}

11319 Pathogen[ P14079] interacts with 2 human partners:{O60502;Q13015}

11320 Pathogen[ P03383] interacts with 1 human partners:{Q13015}

11321 Pathogen[ P03410] interacts with 2 human partners:{Q13015;O60502}

11322 Pathogen[ P14075] interacts with 1 human partners:{Q13015}

11323 Pathogen[ P0C206] interacts with 1 human partners:{Q13015}

11324 Pathogen[ P03363] interacts with 1 human partners:{Q13015}

11325 [Cluster 1810]GO:0048857+P biological\_process [name] neural nucleus development [def] "The biological process whose specific outcome is the progression of a neural nucleus from its initial condition to its mature state. A neural nucleus is an anatomical structure consisting of a discrete aggregate of neuronal soma." [GO\_REF

11326 Pathogen[ Q2Q067] interacts with 1 human partners:{P14652}

11327 Pathogen[ P03346] interacts with 1 human partners:{P14652}

11328 Pathogen[ P0C206] interacts with 1 human partners:{P14652}

11329 Pathogen[ P03363] interacts with 1 human partners:{P14652}

11330 [Cluster 1811]GO:0033124+P biological\_process [name] regulation of GTP catabolic process [def] "Any process that modulates the frequency, rate or extent of the chemical reactions and pathways resulting in the breakdown of GTP, guanosine triphosphate." [GOC

11331 Pathogen[ Q2Q067] interacts with 1 human partners:{043924}

11332 Pathogen[ P03346] interacts with 1 human partners:{043924}

11333 Pathogen[ Q85601] interacts with 1 human partners:{043924}

11334 Pathogen[ P14079] interacts with 1 human partners:{043924}

11335 Pathogen[ P03410] interacts with 1 human partners:{043924}

11336 Pathogen[ P0C206] interacts with 1 human partners:{043924}

11337 Pathogen[ P03363] interacts with 1 human partners:{043924}

11338 [Cluster 1812]GO:0031441+P biological\_process [name] negative regulation of mRNA 3'-end processing [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of mRNA 3'-end processing." [GOC

11339 Pathogen[ Q2Q067] interacts with 1 human partners:{Q99728}

11340 Pathogen[ P0C214] interacts with 1 human partners:{Q99728}

11341 Pathogen[ P03346] interacts with 1 human partners:{Q99728}

11342 Pathogen[ Q85601] interacts with 1 human partners:{Q99728}

11343 Pathogen[ P0C206] interacts with 1 human partners:{Q99728}

11344 Pathogen[ P03363] interacts with 1 human partners:{Q99728}

11345 [Cluster 1813]GO:0002865+P biological\_process [name] negative regulation of acute inflammatory response to antigenic stimulus [def] "Any process that stops, prevents, or reduces the frequency, rate, or extent of an acute inflammatory response to an antigenic stimulus." [GOC

11346 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BQE4}

11347 Pathogen[ P0C214] interacts with 1 human partners:{Q9BQE4}

11348 Pathogen[ Q85601] interacts with 1 human partners:{Q9BQE4}

11349 Pathogen[ P14079] interacts with 1 human partners:{Q9BQE4}

11350 Pathogen[ P03383] interacts with 1 human partners:{Q9BQE4}

11351 Pathogen[ P03410] interacts with 1 human partners:{Q9BQE4}

11352 Pathogen[ P14075] interacts with 1 human partners:{Q9BQE4}

11353 Pathogen[ P0C206] interacts with 1 human partners:{Q9BQE4}

11354 [Cluster 1814]GO:0006965+P biological\_process [name] positive regulation of biosynthetic process of antibacterial peptides active against Gram-positive bacteria [def] "Any process that activates or increases the frequency, rate, or extent of biosynthesis of antibacterial peptides active against Gram-positive bacteria." [GOC

11355 Pathogen[ P14079] interacts with 1 human partners:{P81534}

11356 Pathogen[ P03410] interacts with 1 human partners:{P81534}

11357 [Cluster 1815]GO:0009266+P biological\_process [name] response to temperature stimulus [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a temperature stimulus." [GOC

11358 Pathogen[ P03346] interacts with 1 human partners:{Q9NS18}

11359 Pathogen[ P14079] interacts with 1 human partners:{Q8WXI4}

11360 Pathogen[ P03410] interacts with 1 human partners:{Q8WXI4}

11361 Pathogen[ P0C206] interacts with 2 human partners:{Q8WXI4;Q9NS18}

11362 [Cluster 1816]GO:0032688+P biological\_process [name] negative regulation of interferon-beta production [def] "Any process that stops, prevents, or reduces the frequency, rate, or extent of interferon-beta production." [GOC

11363 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8WUQ7}

11364 Pathogen[ P03346] interacts with 1 human partners:{Q8WUQ7}

11365 Pathogen[ P14079] interacts with 1 human partners:{Q8WUQ7}

11366 Pathogen[ P03383] interacts with 1 human partners:{Q8WUQ7}

11367 Pathogen[ P03410] interacts with 1 human partners:{Q8WUQ7}

11368 Pathogen[ P14075] interacts with 1 human partners:{Q8WUQ7}

11369 Pathogen[ P0C206] interacts with 1 human partners:{Q8WUQ7}

11370 Pathogen[ P03363] interacts with 1 human partners:{Q8WUQ7}

11371 [Cluster 1817]GO:0042775+P biological\_process [name] mitochondrial ATP synthesis coupled electron transport [def] "The transfer of electrons through a series of electron donors and acceptors, generating energy that is ultimately used for synthesis of ATP, as it occurs in the mitochondrial inner membrane or chloroplast thylakoid membrane." [GOC

11372 Pathogen[ P0C214] interacts with 1 human partners:{Q99807}

11373 Pathogen[ P14079] interacts with 1 human partners:{Q99807}

11374 Pathogen[ P03410] interacts with 2 human partners:{Q99807;Q16635}

11375 Pathogen[ P0C206] interacts with 1 human partners:{Q99807}

11376 [Cluster 1818]GO:2000612+P biological\_process [name] regulation of thyroid-stimulating hormone secretion [def] "Any process that modulates the frequency, rate or extent of thyroid-stimulating hormone secretion." [GOC

11377 Pathogen[ P03346] interacts with 1 human partners:{Q06710}

11378 [Cluster 1819]GO:0038003+P biological\_process [name] opioid receptor signaling pathway [def] "The series of molecular signals generated as a consequence of an opioid receptor binding to one of its physiological ligands." [GOC

11379 Pathogen[ P0C214] interacts with 1 human partners:{Q9NZN2}

11380 Pathogen[ P03346] interacts with 1 human partners:{Q9NZN2}

11381 Pathogen[ P14079] interacts with 1 human partners:{Q9NZN2}

11382 Pathogen[ P03410] interacts with 1 human partners:{Q9NZN2}

11383 Pathogen[ POC206] interacts with 1 human partners:{Q9NZT2}

11384 Pathogen[ P03363] interacts with 1 human partners:{Q9NZT2}

11385 [Cluster 1820]GO:0009165+P biological\_process [name] nucleotide biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of nucleotides, any nucleoside that is esterified with (ortho)phosphate or an oligophosphate at any hydroxyl group on the glucose moiety\_ may be mono-, di- or triphosphate\_ this definition includes cyclic-nucleotides (nucleoside cyclic phosphates)." [GOC

11386 Pathogen[ Q2Q067] interacts with 1 human partners:{P04818}

11387 Pathogen[ POC214] interacts with 4 human partners:{P04818;P23919;Q86XF0;P00374}

11388 Pathogen[ P14079] interacts with 6 human partners:{Q86XF0;P00374;P23919;O60256;Q14558;P04818}

11389 Pathogen[ P03410] interacts with 6 human partners:{P00374;P23919;P04818;Q14558;Q86XF0;O60256}

11390 Pathogen[ POC206] interacts with 1 human partners:{P04818}

11391 [Cluster 1821]GO:0033227+P biological\_process [name] dsRNA transport [def] "The directed movement of dsRNA, double-stranded ribonucleic acid, into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore." [GOC

11392 Pathogen[ P14079] interacts with 1 human partners:{Q9NXL6}

11393 [Cluster 1822]GO:0003146+P biological\_process [name] heart jogging [def] "The morphogenetic process in which the heart cone is displaced to the left with respect to the vector of the anterior-posterior axis." [GOC

11394 Pathogen[ P03346] interacts with 1 human partners:{O75593}

11395 [Cluster 1823]GO:0046487+P biological\_process [name] glyoxylate metabolic process [def] "The chemical reactions and pathways involving glyoxylate, the anion of glyoxylic acid, HOC-COOH." [ISBN

11396 Pathogen[ POC214] interacts with 1 human partners:{Q86XE5}

11397 Pathogen[ P14079] interacts with 1 human partners:{Q86XE5}

11398 Pathogen[ P03410] interacts with 1 human partners:{Q86XE5}

11399 Pathogen[ P14075] interacts with 1 human partners:{Q86XE5}

11400 Pathogen[ POC206] interacts with 1 human partners:{Q86XE5}

11401 [Cluster 1824]GO:0003420+P biological\_process [name] regulation of growth plate cartilage chondrocyte proliferation [def] "Any process that modulates the rate, frequency, or extent of the multiplication or reproduction of chondrocytes in a growing endochondral bone, resulting in the expansion of a cell population." [GOC

11402 Pathogen[ Q2Q067] interacts with 1 human partners:{Q86X55}

11403 Pathogen[ POC214] interacts with 1 human partners:{Q86X55}

11404 Pathogen[ P03346] interacts with 1 human partners:{Q86X55}

11405 Pathogen[ Q85601] interacts with 1 human partners:{Q86X55}

11406 Pathogen[ P03383] interacts with 1 human partners:{Q86X55}

11407 Pathogen[ P03410] interacts with 1 human partners:{Q86X55}

11408 Pathogen[ P14075] interacts with 1 human partners:{Q86X55}

11409 Pathogen[ POC206] interacts with 1 human partners:{Q86X55}

11410 Pathogen[ P03363] interacts with 1 human partners:{Q86X55}

11411 [Cluster 1825]GO:0030947+P biological\_process [name] regulation of vascular endothelial growth factor receptor signaling pathway [def] "Any process that modulates the frequency, rate or extent of vascular endothelial growth factor receptor signaling pathway activity." [GOC

11412 Pathogen[ P03410] interacts with 1 human partners:{Q9BSN7}

11413 [Cluster 1826]GO:0007019+P biological\_process [name] microtubule depolymerization [def] "The removal of tubulin heterodimers from one or both ends of a microtubule." [ISBN

11414 Pathogen[ P14079] interacts with 1 human partners:{Q99661}

11415 [Cluster 1827]GO:0060674+P biological\_process [name] placenta blood vessel development [def] "The process whose specific outcome is the progression of a blood vessel of the placenta over time, from its formation to the mature structure." [GOC

11416 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96T37}

11417 Pathogen[ POC214] interacts with 1 human partners:{Q96T37}

11418 Pathogen[ P03346] interacts with 1 human partners:{Q96T37}

11419 Pathogen[ Q85601] interacts with 1 human partners:{Q96T37}

11420 Pathogen[ P14079] interacts with 1 human partners:{Q96T37}

11421 Pathogen[ P03410] interacts with 1 human partners:{Q96T37}

11422 Pathogen[ POC206] interacts with 1 human partners:{Q96T37}

11423 Pathogen[ P03363] interacts with 1 human partners:{Q96T37}

11424 [Cluster 1828]GO:0006427+P biological\_process [name] histidyl-tRNA aminoacylation [def] "The process of coupling histidine to histidyl-tRNA, catalyzed by histidyl-tRNA synthetase. In tRNA aminoacylation, the amino acid is first activated by linkage to AMP and then transferred to either the 2'- or the 3'-hydroxyl group of the 3'-adenosine residue of the tRNA." [GOC

11425 Pathogen[ POC214] interacts with 2 human partners:{P12081;P49590}

11426 [Cluster 1829]GO:0033373+P biological\_process [name] maintenance of protease location in mast cell secretory granule [def] "A process in which a protease is maintained in a secretory granule in a mast cell and prevented from moving elsewhere." [GOC

11427 Pathogen[ POC214] interacts with 1 human partners:{P10124}

11428 Pathogen[ P14079] interacts with 1 human partners:{P10124}

11429 Pathogen[ P03383] interacts with 1 human partners:{P10124}

11430 Pathogen[ P03410] interacts with 1 human partners:{P10124}

11431 Pathogen[ P14075] interacts with 1 human partners:{P10124}

11432 Pathogen[ POC206] interacts with 1 human partners:{P10124}

11433 [Cluster 1830]GO:0071236+P biological\_process [name] cellular response to antibiotic [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an antibiotic stimulus. An antibiotic is a chemical substance produced by a microorganism which has the capacity to inhibit the growth of or to kill other microorganisms." [GOC

11434 Pathogen[ Q2Q067] interacts with 2 human partners:{P46527;P08397}

11435 Pathogen[ POC214] interacts with 2 human partners:{P46527;P08397}

11436 Pathogen[ P03346] interacts with 1 human partners:{P46527}

11437 Pathogen[ Q85601] interacts with 2 human partners:{P08397;P46527}

11438 Pathogen[ P14079] interacts with 2 human partners:{P08397;P46527}

11439 Pathogen[ P03383] interacts with 2 human partners:{P46527;P08397}

11440 Pathogen[ P03410] interacts with 2 human partners:{P46527;P08397}

11441 Pathogen[ P14075] interacts with 2 human partners:{P08397;P46527}

11442 Pathogen[ POC206] interacts with 2 human partners:{P46527;P08397}

11443 [Cluster 1831]GO:0060603+P biological\_process [name] mammary gland duct morphogenesis [def] "The process in which anatomical structures of the mammary ducts are generated and organized. Mammary ducts are epithelial tubes that transport milk." [GOC

11444 Pathogen[ Q2Q067] interacts with 1 human partners:{Q14160}

11445 Pathogen[ POC214] interacts with 1 human partners:{Q14160}

11446 Pathogen[ P03346] interacts with 1 human partners:{Q14160}

11447 Pathogen[ Q85601] interacts with 1 human partners:{Q14160}

11448 Pathogen[ P03383] interacts with 1 human partners:{Q14160}

11449 Pathogen[ P03410] interacts with 1 human partners:{Q14160}

11450 Pathogen[ P14075] interacts with 1 human partners:{Q14160}

11451 Pathogen[ POC206] interacts with 1 human partners:{Q14160}

11452 Pathogen[ P03363] interacts with 1 human partners:{Q14160}

11453 [Cluster 1832]GO:0051148+P biological\_process [name] negative regulation of muscle cell differentiation [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of muscle cell differentiation." [CL

11454 Pathogen[ POC214] interacts with 1 human partners:{P26599}

11455 Pathogen[ P03346] interacts with 1 human partners:{P26599}

11456 Pathogen[ P14079] interacts with 1 human partners:{P26599}

11457 Pathogen[ P03410] interacts with 1 human partners:{P26599}

11458 Pathogen[ P03363] interacts with 1 human partners:{P26599}

11459 [Cluster 1833]GO:0036089+P

11460 Pathogen[ Q2Q067] interacts with 1 human partners:{P61586}

11461 Pathogen[ POC214] interacts with 1 human partners:{P61586}

11462 Pathogen[ P03346] interacts with 1 human partners:{P61586}

11463 Pathogen[ Q85601] interacts with 1 human partners:{P61586}

11464 Pathogen[ P14079] interacts with 1 human partners:{P61586}

11465 Pathogen[ P03383] interacts with 1 human partners:{P61586}

11466 Pathogen[ P03410] interacts with 1 human partners:{P61586}

11467 Pathogen[ P14075] interacts with 1 human partners:{P61586}

11468 Pathogen[ POC206] interacts with 1 human partners:{P61586}

11469 [Cluster 1834]GO:0009396+P biological\_process [name] folic acid-containing compound biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of folic acid and its derivatives." [GOC

11470 Pathogen[ POC214] interacts with 2 human partners:{Q05932;P11586}

11471 Pathogen[ P14079] interacts with 1 human partners:{Q05932}

11472 Pathogen[ P03410] interacts with 1 human partners:{Q05932}

11473 Pathogen[ POC206] interacts with 1 human partners:{Q05932}

11474 [Cluster 1835]GO:0051006+P biological\_process [name] positive regulation of lipoprotein lipase activity [def] "Any process that activates or increases the activity of the enzyme lipoprotein lipase." [GOC

11475 Pathogen[ Q2Q067] interacts with 1 human partners:{P55055}

11476 Pathogen[ P03346] interacts with 1 human partners:{P55055}

11477 Pathogen[ Q85601] interacts with 1 human partners:{P55055}

11478 Pathogen[ P14079] interacts with 2 human partners:{P55055;Q96S06}

11479 Pathogen[ P03410] interacts with 1 human partners:{Q96S06}

11480 Pathogen[ POC206] interacts with 2 human partners:{P55055;Q96S06}

11481 [Cluster 1836]GO:0006760+P biological\_process [name] folic acid-containing compound metabolic process [def] "The chemical reactions and pathways involving a folic acid-containing compound, i.e. any of a group of heterocyclic compounds based on the pteric acid skeleton conjugated with one or more L-glutamic acid or L-glutamate units." [CHEBI

11482 Pathogen[ P14079] interacts with 1 human partners:{O95954}

11483 Pathogen[ P03410] interacts with 1 human partners:{O95954}

11484 Pathogen[ POC206] interacts with 1 human partners:{O95954}

11485 [Cluster 1837]GO:0000904+P biological\_process [name] cell morphogenesis involved in differentiation [def] "The change in form (cell shape and size) that occurs when relatively unspecialized cells, e.g. embryonic or regenerative cells, acquire specialized structural and/or functional features that characterize the cells, tissues, or organs of the mature organism or some other relatively stable phase of the organism's life history." [GOC



11486 Pathogen[ Q2Q067] interacts with 1 human partners:{P35579}

11487 Pathogen[ P03346] interacts with 1 human partners:{P35579}

11488 Pathogen[ Q85601] interacts with 1 human partners:{P35579}

11489 Pathogen[ P14079] interacts with 1 human partners:{P35579}

11490 Pathogen[ P03383] interacts with 1 human partners:{P35579}

11491 Pathogen[ P03410] interacts with 1 human partners:{P35579}

11492 Pathogen[ P14075] interacts with 1 human partners:{P35579}

11493 Pathogen[ P0C206] interacts with 1 human partners:{P35579}

11494 Pathogen[ P03363] interacts with 1 human partners:{P35579}

11495 [Cluster 1838]GO:0050901+P biological\_process [name] leukocyte tethering or rolling [def] "Transient adhesive interactions between leukocytes and endothelial cells lining blood vessels mediated primarily by selectins and which are typically the first step in cellular extravasation." [ISBN

11496 Pathogen[ P14079] interacts with 1 human partners:{Q14242}

11497 Pathogen[ P03410] interacts with 1 human partners:{Q14242}

11498 [Cluster 1839]GO:0060638+P biological\_process [name] mesenchymal-epithelial cell signaling [def] "Any process that mediates the transfer of information from a mesenchymal cell to an epithelial cell where it is received and interpreted." [GOC

11499 Pathogen[ Q2Q067] interacts with 1 human partners:{P20719}

11500 Pathogen[ P03346] interacts with 1 human partners:{P20719}

11501 Pathogen[ P0C206] interacts with 1 human partners:{P20719}

11502 Pathogen[ P03363] interacts with 1 human partners:{P20719}

11503 [Cluster 1840]GO:2001016+P biological\_process [name] positive regulation of skeletal muscle cell differentiation [def] "Any process that activates or increases the frequency, rate or extent of skeletal muscle cell differentiation." [GOC

11504 Pathogen[ P14079] interacts with 1 human partners:{Q06413}

11505 [Cluster 1841]GO:2000599+P biological\_process [name] negative regulation of cyclin catabolic process [def] "Any process that stops, prevents or reduces the frequency, rate or extent of cyclin catabolic process." [GOC

11506 Pathogen[ P03346] interacts with 2 human partners:{Q6UW56;Q92832}

11507 Pathogen[ P14079] interacts with 1 human partners:{Q92832}

11508 Pathogen[ P03410] interacts with 1 human partners:{Q92832}

11509 Pathogen[ P0C206] interacts with 2 human partners:{Q6UW56;Q92832}

11510 Pathogen[ P03363] interacts with 2 human partners:{Q6UW56;Q92832}

11511 [Cluster 1842]GO:0044065+P biological\_process [name] regulation of respiratory system process [def] "Any process that modulates the frequency, rate or extent of a respiratory system process, an organ system process carried out by any of the organs or tissues of the respiratory system." [GOC

11512 Pathogen[ P14079] interacts with 1 human partners:{Q9C0B1}

11513 Pathogen[ P03410] interacts with 1 human partners:{Q9C0B1}

11514 [Cluster 1843]GO:0019101+P biological\_process [name] female somatic sex determination [def] "The determination of sex and sexual phenotypes in a female organism's soma." [GOC

11515 Pathogen[ P03346] interacts with 1 human partners:{P58012}

11516 [Cluster 1844]GO:0023021+P biological\_process [name] termination of signal transduction [def] "The signaling process in which signal transduction is brought to an end rather than being reversibly modulated." [GOC

11517 Pathogen[ P14079] interacts with 1 human partners:{P17405}

11518 Pathogen[ P03410] interacts with 1 human partners:{P17405}

11519 [Cluster 1845]GO:0071636+P biological\_process [name] positive regulation of transforming growth factor beta production [def] "Any process that activates or increases the frequency, rate, or extent of production of transforming growth factor-beta." [GOC

11520 Pathogen[ Q2Q067] interacts with 1 human partners:{P08697}

11521 Pathogen[ P0C214] interacts with 1 human partners:{P08697}

11522 Pathogen[ Q85601] interacts with 1 human partners:{P08697}

11523 Pathogen[ P03383] interacts with 1 human partners:{P08697}

11524 Pathogen[ P03410] interacts with 1 human partners:{P08697}

11525 Pathogen[ P14075] interacts with 1 human partners:{P08697}

11526 Pathogen[ P0C206] interacts with 1 human partners:{P08697}

11527 [Cluster 1846]GO:0072278+P biological\_process [name] metanephric comma-shaped body morphogenesis [def] "The process in which the metanephric comma-shaped body is generated and organized. The metanephric comma-shaped body is the precursor structure to the metanephric S-shaped body that contributes to the morphogenesis of a nephron in the metanephros." [GOC

11528 Pathogen[ P03346] interacts with 1 human partners:{Q06710}

11529 [Cluster 1847]GO:0002115+P biological\_process [name] store-operated calcium entry [def] "A calcium ion entry mechanism in the plasma membrane activated by the depletion of calcium ion from the internal calcium ion store in the endoplasmic reticulum." [GOC

11530 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BSW2}

11531 Pathogen[ P0C214] interacts with 1 human partners:{Q9BSW2}

11532 Pathogen[ P03346] interacts with 1 human partners:{Q9BSW2}

11533 Pathogen[ Q85601] interacts with 1 human partners:{Q9BSW2}

11534 Pathogen[ P14079] interacts with 1 human partners:{Q9BSW2}

11535 Pathogen[ P03383] interacts with 1 human partners:{Q9BSW2}

11536 Pathogen[ P14075] interacts with 1 human partners:{Q9BSW2}

11537 Pathogen[ P0C206] interacts with 1 human partners:{Q9BSW2}

11538 Pathogen[ P03363] interacts with 1 human partners:{Q9BSW2}

11539 [Cluster 1848]GO:0033690+P biological\_process [name] positive regulation of osteoblast proliferation [def] "Any process that activates or increases the rate or extent of osteoblast proliferation." [GOC

11540 Pathogen[ Q2Q067] interacts with 1 human partners:{P15976}

11541 Pathogen[ P03346] interacts with 1 human partners:{P15976}

11542 Pathogen[ Q85601] interacts with 1 human partners:{P15976}

11543 Pathogen[ P14079] interacts with 1 human partners:{P15976}

11544 Pathogen[ P03410] interacts with 1 human partners:{P15976}

11545 Pathogen[ POC206] interacts with 1 human partners:{P15976}

11546 [Cluster 1849]GO:0031619+P biological\_process [name] homologous chromosome orientation involved in meiotic metaphase I plate congression [def] "The cell cycle process in which the sister centromeres of one chromosome attach to microtubules that emanate from the same spindle pole, which ensures that homologous maternal and paternal chromosomes are pulled in opposite directions at anaphase of meiosis I." [PMID

11547 Pathogen[ P03346] interacts with 1 human partners:{P51587}

11548 Pathogen[ Q85601] interacts with 1 human partners:{P51587}

11549 Pathogen[ P14079] interacts with 1 human partners:{P51587}

11550 Pathogen[ P03410] interacts with 1 human partners:{P51587}

11551 Pathogen[ POC206] interacts with 1 human partners:{P51587}

11552 [Cluster 1850]GO:0071691+P biological\_process [name] cardiac muscle thin filament assembly [def] "The aggregation, arrangement and bonding together of proteins to form the actin-based thin filaments of myofibrils in cardiac muscle." [GOC

11553 Pathogen[ P03346] interacts with 1 human partners:{O76041}

11554 Pathogen[ P14079] interacts with 1 human partners:{O76041}

11555 Pathogen[ P03410] interacts with 1 human partners:{O76041}

11556 Pathogen[ POC206] interacts with 1 human partners:{O76041}

11557 Pathogen[ P03363] interacts with 1 human partners:{O76041}

11558 [Cluster 1851]GO:0042594+P biological\_process [name] response to starvation [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a starvation stimulus, deprivation of nourishment." [GOC

11559 Pathogen[ Q2Q067] interacts with 1 human partners:{P05062}

11560 Pathogen[ POC214] interacts with 2 human partners:{P05062;P16118}

11561 Pathogen[ P03346] interacts with 1 human partners:{P05062}

11562 Pathogen[ Q85601] interacts with 2 human partners:{P05062;P16118}

11563 Pathogen[ P03410] interacts with 2 human partners:{P16118;P05062}

11564 Pathogen[ P14075] interacts with 1 human partners:{P16118}

11565 Pathogen[ POC206] interacts with 2 human partners:{P05062;P16118}

11566 [Cluster 1852]GO:0000964+P biological\_process [name] mitochondrial RNA 5'-end processing [def] "Any process involved in forming the mature 5' end of an RNA molecule transcribed from a mitochondrial genome\_ occurs in the mitochondrion." [GOC

11567 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8TCS8}

11568 Pathogen[ POC214] interacts with 1 human partners:{Q8TCS8}

11569 Pathogen[ P03346] interacts with 1 human partners:{Q8TCS8}

11570 Pathogen[ Q85601] interacts with 1 human partners:{Q8TCS8}

11571 Pathogen[ P14079] interacts with 1 human partners:{Q8TCS8}

11572 Pathogen[ P03383] interacts with 1 human partners:{Q8TCS8}

11573 Pathogen[ P03410] interacts with 1 human partners:{Q8TCS8}

11574 Pathogen[ P14075] interacts with 1 human partners:{Q8TCS8}

11575 Pathogen[ POC206] interacts with 1 human partners:{Q8TCS8}

11576 [Cluster 1853]GO:0046426+P biological\_process [name] negative regulation of JAK-STAT cascade [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the JAK-STAT signaling pathway activity." [GOC

11577 Pathogen[ Q2Q067] interacts with 2 human partners:{Q13562;O14964}

11578 Pathogen[ POC214] interacts with 2 human partners:{O14964;O15524}

11579 Pathogen[ P03346] interacts with 3 human partners:{O15524;O14964;Q13562}

11580 Pathogen[ Q85601] interacts with 2 human partners:{Q13562;O14964}

11581 Pathogen[ P03383] interacts with 1 human partners:{O14964}

11582 Pathogen[ P14075] interacts with 1 human partners:{O14964}

11583 Pathogen[ POC206] interacts with 3 human partners:{O14964;O15524;Q13562}

11584 Pathogen[ P03363] interacts with 2 human partners:{O15524;O14964}

11585 [Cluster 1854]GO:0002862+P biological\_process [name] negative regulation of inflammatory response to antigenic stimulus [def] "Any process that stops, prevents, or reduces the frequency, rate, or extent of an inflammatory response to an antigenic stimulus." [GOC

11586 Pathogen[ Q2Q067] interacts with 2 human partners:{P25786;P28070}

11587 Pathogen[ POC214] interacts with 2 human partners:{P25786;P28070}

11588 Pathogen[ P03346] interacts with 2 human partners:{P28070;P25786}

11589 Pathogen[ Q85601] interacts with 2 human partners:{P25786;P28070}

11590 Pathogen[ P03383] interacts with 2 human partners:{P25786;P28070}

11591 Pathogen[ P03410] interacts with 2 human partners:{P28070;P25786}

11592 Pathogen[ P14075] interacts with 2 human partners:{P28070;P25786}

11593 Pathogen[ POC206] interacts with 2 human partners:{P25786;P28070}

11594 [Cluster 1855]GO:0021889+P biological\_process [name] olfactory bulb interneuron differentiation [def] "The process in which a neuroblast acquires specialized features

of an interneuron residing in the olfactory bulb." [GO\_REF

11595 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NSC2}

11596 Pathogen[ P0C214] interacts with 1 human partners:{Q9NSC2}

11597 Pathogen[ P03346] interacts with 1 human partners:{Q9NSC2}

11598 Pathogen[ Q85601] interacts with 1 human partners:{Q9NSC2}

11599 Pathogen[ P14079] interacts with 1 human partners:{Q9NSC2}

11600 Pathogen[ P03383] interacts with 1 human partners:{Q9NSC2}

11601 Pathogen[ P03410] interacts with 1 human partners:{Q9NSC2}

11602 Pathogen[ P14075] interacts with 1 human partners:{Q9NSC2}

11603 Pathogen[ P0C206] interacts with 1 human partners:{Q9NSC2}

11604 [Cluster 1856]GO:2000054+P biological\_process [name] negative regulation of Wnt receptor signaling pathway involved in dorsal/ventral axis specification [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of Wnt receptor signaling pathway involved in dorsal/ventral axis specification." [GOC

11605 Pathogen[ P03410] interacts with 1 human partners:{Q9BQB4}

11606 [Cluster 1857]GO:0042092+P biological\_process [name] type 2 immune response [def] "An immune response which is associated with resistance to extracellular organisms such as helminths and pathological conditions such as allergy, which is orchestrated by the production of particular cytokines, most notably IL-4, IL-5, IL-10, and IL-13, by any of a variety of cell types including T-helper 2 cells, eosinophils, basophils, mast cells, and neutrophils, resulting in enhanced production of certain antibody isotypes and other effects." [GOC

11607 Pathogen[ Q2Q067] interacts with 1 human partners:{P41182}

11608 Pathogen[ P0C214] interacts with 1 human partners:{P41182}

11609 Pathogen[ P03346] interacts with 1 human partners:{P41182}

11610 Pathogen[ Q85601] interacts with 1 human partners:{P41182}

11611 Pathogen[ P14079] interacts with 1 human partners:{P41182}

11612 Pathogen[ P03410] interacts with 1 human partners:{P41182}

11613 Pathogen[ P0C206] interacts with 1 human partners:{P41182}

11614 [Cluster 1858]GO:2000553+P biological\_process [name] positive regulation of T-helper 2 cell cytokine production [def] "Any process that activates or increases the frequency, rate or extent of T-helper 2 cell cytokine production." [GOC

11615 Pathogen[ P0C214] interacts with 1 human partners:{Q8WXG1}

11616 Pathogen[ P14079] interacts with 1 human partners:{Q8WXG1}

11617 Pathogen[ P03410] interacts with 1 human partners:{Q8WXG1}

11618 Pathogen[ P0C206] interacts with 1 human partners:{Q8WXG1}

11619 [Cluster 1859]GO:2000118+P biological\_process [name] regulation of sodium-dependent phosphate transport [def] "Any process that modulates the frequency, rate or extent of sodium-dependent phosphate transport." [GOC

11620 Pathogen[ P0C214] interacts with 1 human partners:{Q49AN0}

11621 Pathogen[ P03346] interacts with 1 human partners:{Q49AN0}

11622 Pathogen[ Q85601] interacts with 1 human partners:{Q49AN0}

11623 Pathogen[ P14079] interacts with 1 human partners:{Q49AN0}

11624 Pathogen[ P03410] interacts with 1 human partners:{Q49AN0}

11625 Pathogen[ P0C206] interacts with 1 human partners:{Q49AN0}

11626 Pathogen[ P03363] interacts with 1 human partners:{Q49AN0}

11627 [Cluster 1860]GO:0048341+P biological\_process [name] paraxial mesoderm formation [def] "The process that gives rise to the paraxial mesoderm. This process pertains to the initial formation of the structure from unspecified parts." [GOC

11628 Pathogen[ Q2Q067] interacts with 1 human partners:{P20823}

11629 Pathogen[ P03346] interacts with 1 human partners:{P20823}

11630 Pathogen[ Q85601] interacts with 1 human partners:{P20823}

11631 Pathogen[ P0C206] interacts with 1 human partners:{P20823}

11632 [Cluster 1861]GO:0006116+P biological\_process [name] NADH oxidation [def] "A metabolic process that results in the oxidation of reduced nicotinamide adenine dinucleotide, NADH, to the oxidized form, NAD." [GOC

11633 Pathogen[ Q2Q067] interacts with 1 human partners:{P05062}

11634 Pathogen[ P0C214] interacts with 2 human partners:{P05062;P21695}

11635 Pathogen[ P03346] interacts with 1 human partners:{P05062}

11636 Pathogen[ Q85601] interacts with 1 human partners:{P05062}

11637 Pathogen[ P14079] interacts with 1 human partners:{P21695}

11638 Pathogen[ P03410] interacts with 2 human partners:{P05062;P21695}

11639 Pathogen[ P0C206] interacts with 1 human partners:{P05062}

11640 [Cluster 1862]GO:0060666+P biological\_process [name] dichotomous subdivision of terminal units involved in salivary gland branching [def] "The process in which a salivary epithelial cord bifurcates at its end." [GOC

11641 Pathogen[ Q2Q067] interacts with 1 human partners:{O14786}

11642 Pathogen[ P0C214] interacts with 1 human partners:{O14786}

11643 Pathogen[ P03346] interacts with 1 human partners:{O14786}

11644 Pathogen[ Q85601] interacts with 1 human partners:{O14786}

11645 Pathogen[ P03410] interacts with 1 human partners:{O14786}

11646 Pathogen[ P0C206] interacts with 1 human partners:{O14786}

11647 Pathogen[ P03363] interacts with 1 human partners:{O14786}

11648 [Cluster 1863]GO:0006591+P biological\_process [name] ornithine metabolic process [def] "The chemical reactions and pathways involving ornithine, an amino acid only rarely found in proteins, but which is important in living organisms as an intermediate

in the reactions of the urea cycle and in arginine biosynthesis." [GOC  
11649 Pathogen[ P0C214] interacts with 1 human partners:{P00480}  
11650 Pathogen[ Q85601] interacts with 1 human partners:{P00480}  
11651 Pathogen[ P14079] interacts with 1 human partners:{P00480}  
11652 Pathogen[ P03410] interacts with 1 human partners:{P00480}  
11653 Pathogen[ P0C206] interacts with 1 human partners:{P00480}  
11654 [Cluster 1864]GO:0007520+P biological\_process [name] myoblast fusion [def] "A process  
in which non-proliferating myoblasts fuse to existing fibers or to myotubes to form new  
fibers. A myoblast is a mononucleate cell type that, by fusion with other myoblasts,  
gives rise to the myotubes that eventually develop into skeletal muscle fibers." [CL  
11655 Pathogen[ Q2Q067] interacts with 1 human partners:{P35579}  
11656 Pathogen[ P03346] interacts with 1 human partners:{P35579}  
11657 Pathogen[ Q85601] interacts with 1 human partners:{P35579}  
11658 Pathogen[ P14079] interacts with 1 human partners:{P35579}  
11659 Pathogen[ P03383] interacts with 1 human partners:{P35579}  
11660 Pathogen[ P03410] interacts with 1 human partners:{P35579}  
11661 Pathogen[ P14075] interacts with 1 human partners:{P35579}  
11662 Pathogen[ P0C206] interacts with 1 human partners:{P35579}  
11663 Pathogen[ P03363] interacts with 1 human partners:{P35579}  
11664 [Cluster 1865]GO:0050667+P biological\_process [name] homocysteine metabolic process  
[def] "The chemical reactions and pathways involving homocysteine, the amino acid  
alpha-amino-gamma-mercaptobutanoic acid. Homocysteine is an important intermediate in  
the metabolic reactions of its S-methyl derivative, methionine." [ISBN  
11665 Pathogen[ Q2Q067] interacts with 2 human partners:{P22033;P32929}  
11666 Pathogen[ P0C214] interacts with 4 human partners:{P42898;P32929;P22033;P35520}  
11667 Pathogen[ P03346] interacts with 1 human partners:{P32929}  
11668 Pathogen[ Q85601] interacts with 2 human partners:{P22033;P32929}  
11669 Pathogen[ P14079] interacts with 3 human partners:{P22033;P32929;P42898}  
11670 Pathogen[ P03383] interacts with 1 human partners:{P22033}  
11671 Pathogen[ P03410] interacts with 3 human partners:{P32929;P42898;P22033}  
11672 Pathogen[ P14075] interacts with 1 human partners:{P22033}  
11673 Pathogen[ P0C206] interacts with 2 human partners:{P32929;P22033}  
11674 [Cluster 1866]GO:0008343+P biological\_process [name] adult feeding behavior [def]  
"Feeding behavior in a fully developed and mature organism." [GOC  
11675 Pathogen[ P03346] interacts with 1 human partners:{Q8NFW5}  
11676 Pathogen[ P03363] interacts with 1 human partners:{Q8NFW5}  
11677 [Cluster 1867]GO:0060620+P biological\_process [name] regulation of cholesterol import  
[def] "Any process that modulates the rate, frequency or extent of cholesterol import.  
Cholesterol import is the directed movement of cholesterol into a cell or organelle."  
[GOC  
11678 Pathogen[ P14079] interacts with 1 human partners:{Q6IAA8}  
11679 Pathogen[ P03410] interacts with 1 human partners:{Q6IAA8}  
11680 [Cluster 1868]GO:0050684+P biological\_process [name] regulation of mRNA processing  
[def] "Any process that modulates the frequency, rate or extent of mRNA processing,  
those processes involved in the conversion of a primary mRNA transcript into a mature  
mRNA prior to its translation into polypeptide." [GOC  
11681 Pathogen[ P0C214] interacts with 2 human partners:{Q8WV60;P21127}  
11682 Pathogen[ P03346] interacts with 1 human partners:{P21127}  
11683 Pathogen[ Q85601] interacts with 2 human partners:{Q8WV60;P21127}  
11684 Pathogen[ P14079] interacts with 2 human partners:{Q8WV60;P21127}  
11685 Pathogen[ P03383] interacts with 1 human partners:{P21127}  
11686 Pathogen[ P03410] interacts with 1 human partners:{Q8WV60}  
11687 Pathogen[ P14075] interacts with 2 human partners:{P21127;Q9UQ88}  
11688 Pathogen[ P0C206] interacts with 2 human partners:{Q8WV60;P21127}  
11689 Pathogen[ P03363] interacts with 1 human partners:{P21127}  
11690 [Cluster 1869]GO:0031641+P biological\_process [name] regulation of myelination  
[def] "Any process that modulates the frequency, rate or extent of the formation of a  
myelin sheath around nerve axons." [GOC  
11691 Pathogen[ P03346] interacts with 1 human partners:{O60688}  
11692 Pathogen[ P14079] interacts with 1 human partners:{O60688}  
11693 Pathogen[ P03410] interacts with 1 human partners:{O60688}  
11694 Pathogen[ P0C206] interacts with 1 human partners:{O60688}  
11695 Pathogen[ P03363] interacts with 1 human partners:{O60688}  
11696 [Cluster 1870]GO:0036352+P  
11697 Pathogen[ P0C214] interacts with 1 human partners:{Q8IYW5}  
11698 Pathogen[ P03346] interacts with 1 human partners:{Q8IYW5}  
11699 Pathogen[ Q85601] interacts with 1 human partners:{Q8IYW5}  
11700 Pathogen[ P0C206] interacts with 1 human partners:{Q8IYW5}  
11701 Pathogen[ P03363] interacts with 1 human partners:{Q8IYW5}  
11702 [Cluster 1871]GO:0002762+P biological\_process [name] negative regulation of myeloid  
leukocyte differentiation [def] "Any process that stops, prevents, or reduces the  
frequency, rate, or extent of myeloid leukocyte differentiation." [GOC  
11703 Pathogen[ Q2Q067] interacts with 1 human partners:{P22392}  
11704 Pathogen[ P0C214] interacts with 1 human partners:{P22392}  
11705 Pathogen[ P03346] interacts with 1 human partners:{P22392}  
11706 Pathogen[ Q85601] interacts with 1 human partners:{P22392}

11707 Pathogen[ P14079] interacts with 1 human partners:{P22392}

11708 Pathogen[ P03383] interacts with 1 human partners:{P22392}

11709 Pathogen[ P14075] interacts with 1 human partners:{P22392}

11710 Pathogen[ P0C206] interacts with 1 human partners:{P22392}

11711 [Cluster 1872]GO:0009143+P biological\_process [name] nucleoside triphosphate catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of a nucleoside triphosphate, a compound consisting of a nucleobase linked to a deoxyribose or ribose sugar esterified with triphosphate on the sugar." [GOC

11712 Pathogen[ P14079] interacts with 2 human partners:{Q9H773;P20930}

11713 Pathogen[ P03410] interacts with 2 human partners:{Q9H773;P20930}

11714 [Cluster 1873]GO:0006399+P biological\_process [name] tRNA metabolic process [def] "The chemical reactions and pathways involving tRNA, transfer RNA, a class of relatively small RNA molecules responsible for mediating the insertion of amino acids into the sequence of nascent polypeptide chains during protein synthesis. Transfer RNA is characterized by the presence of many unusual minor bases, the function of which has not been completely established." [ISBN

11715 Pathogen[ P14079] interacts with 1 human partners:{075648}

11716 Pathogen[ P03410] interacts with 1 human partners:{075648}

11717 Pathogen[ P14075] interacts with 1 human partners:{075648}

11718 [Cluster 1874]GO:0007402+P biological\_process [name] ganglion mother cell fate determination [def] "The cell fate determination process in which a cell becomes capable of differentiating autonomously into a ganglion mother cell regardless of its environment\_ upon determination, the cell fate cannot be reversed." [GOC

11719 Pathogen[ Q2Q067] interacts with 1 human partners:{P78424}

11720 Pathogen[ P03346] interacts with 1 human partners:{P78424}

11721 Pathogen[ Q85601] interacts with 1 human partners:{P78424}

11722 Pathogen[ P14079] interacts with 1 human partners:{P78424}

11723 Pathogen[ P03410] interacts with 1 human partners:{P78424}

11724 Pathogen[ P0C206] interacts with 1 human partners:{P78424}

11725 Pathogen[ P03363] interacts with 1 human partners:{P78424}

11726 [Cluster 1875]GO:0035441+P biological\_process [name] cell migration involved in vasculogenesis [def] "The orderly movement of a cell from one site to another that will contribute to the differentiation of an endothelial cell that will form de novo blood vessels and tubes." [GOC

11727 Pathogen[ P03346] interacts with 1 human partners:{Q9BYW2}

11728 [Cluster 1876]GO:0032924+P biological\_process [name] activin receptor signaling pathway [def] "A series of molecular signals generated as a consequence of any member of the activin family binding to a cell surface receptor." [GOC

11729 Pathogen[ Q2Q067] interacts with 2 human partners:{P84022;Q15796}

11730 Pathogen[ P0C214] interacts with 2 human partners:{P84022;Q15796}

11731 Pathogen[ P03346] interacts with 2 human partners:{Q15796;P84022}

11732 Pathogen[ Q85601] interacts with 2 human partners:{P84022;Q15796}

11733 Pathogen[ P03383] interacts with 2 human partners:{P84022;Q15796}

11734 Pathogen[ P03410] interacts with 2 human partners:{P84022;Q15796}

11735 Pathogen[ P14075] interacts with 2 human partners:{Q15796;P84022}

11736 Pathogen[ P0C206] interacts with 2 human partners:{P84022;Q15796}

11737 Pathogen[ P03363] interacts with 2 human partners:{Q15796;P84022}

11738 [Cluster 1877]GO:0021754+P biological\_process [name] facial nucleus development [def] "The process whose specific outcome is the progression of the facial nucleus over time, from its formation to the mature structure." [GO\_REF

11739 Pathogen[ Q2Q067] interacts with 2 human partners:{P49639;P14653}

11740 Pathogen[ P0C214] interacts with 2 human partners:{P49639;P14653}

11741 Pathogen[ P03346] interacts with 2 human partners:{P49639;P14653}

11742 Pathogen[ Q85601] interacts with 2 human partners:{P49639;P14653}

11743 Pathogen[ P14079] interacts with 1 human partners:{P49639}

11744 Pathogen[ P03383] interacts with 1 human partners:{P49639}

11745 Pathogen[ P03410] interacts with 1 human partners:{P49639}

11746 Pathogen[ P0C206] interacts with 2 human partners:{P49639;P14653}

11747 Pathogen[ P03363] interacts with 2 human partners:{P49639;P14653}

11748 [Cluster 1878]GO:0006601+P biological\_process [name] creatine biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of creatine, N-[amino(imino)methyl]-N-methylglycine. Creatine is formed by a process beginning with amidino group transfer from L-arginine to glycine to form guanidinoacetate, followed by methyl group transfer from S-adenosyl-L-methionine to guanidinoacetate\_ it is then is phosphorylated to form a pool that stores high energy phosphate for the replenishment of ATP during periods of high, or fluctuating energy demand. In animals, most creatine is transported to and used in muscle." [CHEBI

11749 Pathogen[ P0C214] interacts with 1 human partners:{P50440}

11750 Pathogen[ P14079] interacts with 2 human partners:{Q14353;P50440}

11751 Pathogen[ P03410] interacts with 2 human partners:{Q14353;P50440}

11752 Pathogen[ P14075] interacts with 1 human partners:{P50440}

11753 Pathogen[ P0C206] interacts with 1 human partners:{P50440}

11754 [Cluster 1879]GO:0010715+P biological\_process [name] regulation of extracellular matrix disassembly [def] "Any process that modulates the rate, frequency or extent of extracellular matrix disassembly. Extracellular matrix disassembly is a process that results in the breakdown of the extracellular matrix." [GOC

11755 Pathogen[ Q2Q067] interacts with 1 human partners:{P14921}

11756 Pathogen[ POC214] interacts with 1 human partners:{P14921}

11757 Pathogen[ P03346] interacts with 1 human partners:{P14921}

11758 Pathogen[ Q85601] interacts with 1 human partners:{P14921}

11759 Pathogen[ P03383] interacts with 1 human partners:{P14921}

11760 Pathogen[ P03410] interacts with 1 human partners:{P14921}

11761 Pathogen[ P14075] interacts with 1 human partners:{P14921}

11762 Pathogen[ POC206] interacts with 1 human partners:{P14921}

11763 Pathogen[ P03363] interacts with 1 human partners:{P14921}

11764 [Cluster 1880]GO:0046488+P biological\_process [name] phosphatidylinositol metabolic process [def] "The chemical reactions and pathways involving phosphatidylinositol, any glycopospholipid in which a sn-glycerol 3-phosphate residue is esterified to the 1-hydroxyl group of 1D-myo-inositol." [CHEBI

11765 Pathogen[ Q2Q067] interacts with 1 human partners:{Q92562}

11766 Pathogen[ POC214] interacts with 1 human partners:{Q92562}

11767 Pathogen[ P03346] interacts with 1 human partners:{Q92562}

11768 Pathogen[ Q85601] interacts with 1 human partners:{Q92562}

11769 Pathogen[ P14079] interacts with 1 human partners:{Q92562}

11770 Pathogen[ P03410] interacts with 1 human partners:{Q92562}

11771 Pathogen[ POC206] interacts with 1 human partners:{Q92562}

11772 [Cluster 1881]GO:0051354+P biological\_process [name] negative regulation of oxidoreductase activity [def] "Any process that stops or reduces the rate of oxidoreductase activity, the catalysis of an oxidation-reduction (redox) reaction, a reversible chemical reaction in which the oxidation state of an atom or atoms within a molecule is altered." [GOC

11773 Pathogen[ POC214] interacts with 1 human partners:{Q9NVH6}

11774 Pathogen[ P14079] interacts with 2 human partners:{Q15070;Q9NVH6}

11775 Pathogen[ P03410] interacts with 2 human partners:{Q9NVH6;Q15070}

11776 Pathogen[ P14075] interacts with 2 human partners:{Q9NVH6;Q15070}

11777 Pathogen[ POC206] interacts with 2 human partners:{Q9NVH6;Q15070}

11778 [Cluster 1882]GO:0001302+P biological\_process [name] replicative cell aging [def] "The process associated with progression of the cell from its inception to the end of its lifespan that occurs as the cell continues cycles of growth and division." [GOC

11779 Pathogen[ P03346] interacts with 1 human partners:{P07992}

11780 Pathogen[ P14079] interacts with 3 human partners:{P60602;Q12893;P07992}

11781 Pathogen[ P03410] interacts with 3 human partners:{Q12893;P07992;P60602}

11782 Pathogen[ P14075] interacts with 1 human partners:{P60602}

11783 Pathogen[ POC206] interacts with 3 human partners:{P07992;Q12893;P60602}

11784 [Cluster 1883]GO:0003383+P biological\_process [name] apical constriction [def] "The actin-mediated process that results in the contraction of the apical end of a polarized columnar epithelial cell." [GOC

11785 Pathogen[ P03346] interacts with 1 human partners:{Q8TEW0}

11786 Pathogen[ P14079] interacts with 1 human partners:{Q8TEW0}

11787 Pathogen[ P03410] interacts with 1 human partners:{Q8TEW0}

11788 Pathogen[ POC206] interacts with 1 human partners:{Q8TEW0}

11789 [Cluster 1884]GO:0032733+P biological\_process [name] positive regulation of interleukin-10 production [def] "Any process that activates or increases the frequency, rate, or extent of interleukin-10 production." [GOC

11790 Pathogen[ POC214] interacts with 1 human partners:{P10809}

11791 Pathogen[ P03346] interacts with 1 human partners:{O75995}

11792 [Cluster 1885]GO:0007403+P biological\_process [name] glial cell fate determination [def] "The cell fate determination process in which a cell becomes capable of differentiating autonomously into a glial cell regardless of its environment\_ upon determination, the cell fate cannot be reversed." [GOC

11793 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9HBD4}

11794 Pathogen[ POC214] interacts with 1 human partners:{Q9HBD4}

11795 Pathogen[ P03346] interacts with 1 human partners:{Q9HBD4}

11796 Pathogen[ Q85601] interacts with 1 human partners:{Q9HBD4}

11797 Pathogen[ P03383] interacts with 1 human partners:{Q9HBD4}

11798 Pathogen[ P03410] interacts with 1 human partners:{Q9HBD4}

11799 Pathogen[ P14075] interacts with 1 human partners:{Q9HBD4}

11800 Pathogen[ POC206] interacts with 1 human partners:{Q9HBD4}

11801 Pathogen[ P03363] interacts with 1 human partners:{Q9HBD4}

11802 [Cluster 1886]GO:0051303+P biological\_process [name] establishment of chromosome localization [def] "The directed movement of a chromosome to a specific location." [GOC

11803 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9NXR1;O15392}

11804 Pathogen[ POC214] interacts with 2 human partners:{O15392;Q9NXR1}

11805 Pathogen[ P03346] interacts with 2 human partners:{O15392;Q9NXR1}

11806 Pathogen[ Q85601] interacts with 2 human partners:{O15392;Q9NXR1}

11807 Pathogen[ P14079] interacts with 2 human partners:{O15392;Q9NXR1}

11808 Pathogen[ P03410] interacts with 2 human partners:{O15392;Q9NXR1}

11809 Pathogen[ POC206] interacts with 2 human partners:{O15392;Q9NXR1}

11810 Pathogen[ P03363] interacts with 1 human partners:{Q9NXR1}

11811 [Cluster 1887]GO:0043163+P biological\_process [name] cell envelope organization [def] "A process that is carried out at the cellular level which results in the

assembly, arrangement of constituent parts, or disassembly of the cell envelope, everything external to, but not including, the cytoplasmic membrane of bacteria, encompassing the periplasmic space, cell wall, and outer membrane if present." [GOC

11812 Pathogen[ POC214] interacts with 1 human partners:{P22735}

11813 Pathogen[ P03346] interacts with 1 human partners:{P22735}

11814 Pathogen[ P14079] interacts with 1 human partners:{P22735}

11815 Pathogen[ P03410] interacts with 1 human partners:{P22735}

11816 Pathogen[ POC206] interacts with 1 human partners:{P22735}

11817 [Cluster 1888]GO:0014740+P biological\_process [name] negative regulation of muscle hyperplasia [def] "Any process that stops, prevents, or reduces the frequency, rate, or extent of muscle hyperplasia." [GOC

11818 Pathogen[ Q2Q067] interacts with 1 human partners:{P29474}

11819 Pathogen[ POC214] interacts with 1 human partners:{P29474}

11820 Pathogen[ P03346] interacts with 1 human partners:{P29474}

11821 Pathogen[ Q85601] interacts with 1 human partners:{P29474}

11822 Pathogen[ P03383] interacts with 1 human partners:{P29474}

11823 Pathogen[ P03410] interacts with 1 human partners:{P29474}

11824 Pathogen[ P14075] interacts with 1 human partners:{P29474}

11825 Pathogen[ POC206] interacts with 1 human partners:{P29474}

11826 Pathogen[ P03363] interacts with 1 human partners:{P29474}

11827 [Cluster 1889]GO:0045932+P biological\_process [name] negative regulation of muscle contraction [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of muscle contraction." [GOC

11828 Pathogen[ P14079] interacts with 1 human partners:{P13805}

11829 Pathogen[ P03410] interacts with 1 human partners:{P13805}

11830 [Cluster 1890]GO:0030823+P biological\_process [name] regulation of cGMP metabolic process [def] "Any process that modulates the frequency, rate or extent of the chemical reactions and pathways involving cGMP." [GOC

11831 Pathogen[ POC214] interacts with 1 human partners:{P35520}

11832 Pathogen[ P03363] interacts with 1 human partners:{Q9NZN9}

11833 [Cluster 1891]GO:0070417+P biological\_process [name] cellular response to cold [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a cold stimulus, a temperature stimulus below the optimal temperature for that organism." [GOC

11834 Pathogen[ Q2Q067] interacts with 1 human partners:{P25963}

11835 Pathogen[ POC214] interacts with 1 human partners:{P25963}

11836 Pathogen[ P03346] interacts with 2 human partners:{P25963;Q12778}

11837 Pathogen[ Q85601] interacts with 1 human partners:{P25963}

11838 Pathogen[ P03383] interacts with 1 human partners:{P25963}

11839 Pathogen[ P03410] interacts with 1 human partners:{P25963}

11840 Pathogen[ P14075] interacts with 1 human partners:{P25963}

11841 Pathogen[ POC206] interacts with 1 human partners:{P25963}

11842 Pathogen[ P03363] interacts with 1 human partners:{P25963}

11843 [Cluster 1892]GO:0033688+P biological\_process [name] regulation of osteoblast proliferation [def] "Any process that modulates the frequency, rate or extent of osteoblast proliferation." [GOC

11844 Pathogen[ Q2Q067] interacts with 1 human partners:{P61586}

11845 Pathogen[ POC214] interacts with 1 human partners:{P61586}

11846 Pathogen[ P03346] interacts with 1 human partners:{P61586}

11847 Pathogen[ Q85601] interacts with 1 human partners:{P61586}

11848 Pathogen[ P14079] interacts with 1 human partners:{P61586}

11849 Pathogen[ P03383] interacts with 1 human partners:{P61586}

11850 Pathogen[ P03410] interacts with 1 human partners:{P61586}

11851 Pathogen[ P14075] interacts with 1 human partners:{P61586}

11852 Pathogen[ POC206] interacts with 1 human partners:{P61586}

11853 [Cluster 1893]GO:0006814+P biological\_process [name] sodium ion transport [def] "The directed movement of sodium ions (Na+) into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore." [GOC

11854 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96PU5}

11855 Pathogen[ POC214] interacts with 2 human partners:{Q16795;Q96PU5}

11856 Pathogen[ P03346] interacts with 2 human partners:{Q96PU5;P48553}

11857 Pathogen[ Q85601] interacts with 1 human partners:{Q96PU5}

11858 Pathogen[ P14079] interacts with 1 human partners:{P48553}

11859 Pathogen[ P03410] interacts with 1 human partners:{P48553}

11860 Pathogen[ POC206] interacts with 2 human partners:{Q96PU5;P48553}

11861 Pathogen[ P03363] interacts with 2 human partners:{Q96PU5;P48553}

11862 [Cluster 1894]GO:0042523+P biological\_process [name] positive regulation of tyrosine phosphorylation of Stat5 protein [def] "Any process that activates or increases the frequency, rate or extent of the introduction of a phosphate group to a tyrosine residue of a Stat5 protein." [GOC

11863 Pathogen[ P14079] interacts with 1 human partners:{P04141}

11864 Pathogen[ P03410] interacts with 1 human partners:{P04141}

11865 [Cluster 1895]GO:0048537+P biological\_process [name] mucosal-associated lymphoid tissue development [def] "The process whose specific outcome is the progression of mucosal-associated lymphoid tissue over time, from its formation to the mature structure. Mucosal-associated lymphoid tissue is typically found as nodules associated

with mucosal epithelia with distinct internal structures including B- and T-zones for the activation of lymphocytes." [GOC

11866 Pathogen[ P03346] interacts with 1 human partners:{Q8TAU0}

11867 Pathogen[ P0C206] interacts with 1 human partners:{Q8TAU0}

11868 Pathogen[ P03363] interacts with 1 human partners:{Q8TAU0}

11869 [Cluster 1896]GO:0072286+P biological\_process [name] metanephric connecting tubule development [def] "The process whose specific outcome is the progression of the metanephric connecting tubule over time, from its formation to the mature structure. The metanephric connecting tubule is a tubular segment of the metanephric nephron\_ it connects the distal convoluted tubule to the collecting duct in the metanephros." [GOC

11870 Pathogen[ P0C214] interacts with 1 human partners:{P05937}

11871 Pathogen[ P03346] interacts with 1 human partners:{P05937}

11872 Pathogen[ P14079] interacts with 1 human partners:{P05937}

11873 Pathogen[ P03410] interacts with 1 human partners:{P05937}

11874 Pathogen[ P03363] interacts with 1 human partners:{P05937}

11875 [Cluster 1897]GO:0097275+P

11876 Pathogen[ P03346] interacts with 1 human partners:{Q92481}

11877 [Cluster 1898]GO:0046320+P biological\_process [name] regulation of fatty acid oxidation [def] "Any process that modulates the frequency, rate or extent of fatty acid oxidation." [GOC

11878 Pathogen[ P0C214] interacts with 2 human partners:{Q9Y376;P23786}

11879 Pathogen[ P03346] interacts with 2 human partners:{P23786;Q9Y376}

11880 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y376}

11881 Pathogen[ P14079] interacts with 3 human partners:{Q95822;Q9Y478;Q9Y376}

11882 Pathogen[ P03410] interacts with 3 human partners:{P23786;Q9Y376;Q95822}

11883 Pathogen[ P0C206] interacts with 2 human partners:{Q9Y376;P23786}

11884 Pathogen[ P03363] interacts with 1 human partners:{Q9Y376}

11885 [Cluster 1899]GO:0046085+P biological\_process [name] adenosine metabolic process [def] "The chemical reactions and pathways involving adenosine, adenine riboside, a ribonucleoside found widely distributed in cells of every type as the free nucleoside and in combination in nucleic acids and various nucleoside coenzymes." [GOC

11886 Pathogen[ P0C214] interacts with 1 human partners:{Q9H0P0}

11887 Pathogen[ Q85601] interacts with 1 human partners:{Q9H0P0}

11888 Pathogen[ P14079] interacts with 2 human partners:{Q9H0P0;Q9BXI3}

11889 Pathogen[ P03410] interacts with 2 human partners:{Q9BXI3;Q9H0P0}

11890 Pathogen[ P0C206] interacts with 1 human partners:{Q9H0P0}

11891 [Cluster 1900]GO:0072365+P biological\_process [name] regulation of cellular ketone metabolic process by negative regulation of transcription from RNA polymerase II promoter [def] "Any process that modulates the frequency, rate or extent of a cellular ketone metabolic process by stopping, preventing, or reducing the frequency, rate or extent of transcription from an RNA polymerase II promoter." [GOC

11892 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9Y618}

11893 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y618}

11894 Pathogen[ P03346] interacts with 1 human partners:{Q9Y618}

11895 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y618}

11896 Pathogen[ P03383] interacts with 1 human partners:{Q9Y618}

11897 Pathogen[ P03410] interacts with 1 human partners:{Q9Y618}

11898 Pathogen[ P14075] interacts with 1 human partners:{Q9Y618}

11899 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y618}

11900 Pathogen[ P03363] interacts with 1 human partners:{Q9Y618}

11901 [Cluster 1901]GO:0003327+P biological\_process [name] type B pancreatic cell fate commitment [def] "The commitment of a cell to a type B pancreatic cell fate and its capacity to differentiate into a type B pancreatic cell. A type B pancreatic cell is a cell located towards center of the islets of Langerhans that secretes insulin." [CL

11902 Pathogen[ P03346] interacts with 1 human partners:{Q95096}

11903 [Cluster 1902]GO:0002553+P biological\_process [name] histamine secretion by mast cell [def] "The regulated release of histamine by a mast cell or group of mast cells." [GOC

11904 Pathogen[ Q2Q067] interacts with 1 human partners:{P63104}

11905 Pathogen[ P03346] interacts with 1 human partners:{P63104}

11906 Pathogen[ Q85601] interacts with 1 human partners:{P63104}

11907 Pathogen[ P14079] interacts with 1 human partners:{P63104}

11908 Pathogen[ P03383] interacts with 1 human partners:{P63104}

11909 Pathogen[ P03410] interacts with 1 human partners:{P63104}

11910 Pathogen[ P14075] interacts with 1 human partners:{P63104}

11911 Pathogen[ P0C206] interacts with 1 human partners:{P63104}

11912 Pathogen[ P03363] interacts with 1 human partners:{P63104}

11913 [Cluster 1903]GO:0010980+P biological\_process [name] positive regulation of vitamin D 24-hydroxylase activity [def] "Any process that increases the rate, frequency or extent of vitamin D 24-hydroxylase activity. Vitamin D 24-hydroxylase activity catalyzes the hydroxylation of C-24 of any form of vitamin D." [GOC

11914 Pathogen[ Q2Q067] interacts with 1 human partners:{P11473}

11915 Pathogen[ P03346] interacts with 1 human partners:{P11473}

11916 Pathogen[ Q85601] interacts with 1 human partners:{P11473}

11917 Pathogen[ P14079] interacts with 1 human partners:{P11473}

11918 Pathogen[ P03383] interacts with 1 human partners:{P11473}

11919 Pathogen[ P03410] interacts with 1 human partners:{P11473}



11920 Pathogen[ P14075] interacts with 1 human partners:{P11473}

11921 Pathogen[ POC206] interacts with 1 human partners:{P11473}

11922 Pathogen[ P03363] interacts with 1 human partners:{P11473}

11923 [Cluster 1904]GO:0043691+P biological\_process [name] reverse cholesterol transport [def] "The directed movement of peripheral cell cholesterol, cholest-5-en-3-beta-ol, towards the liver for catabolism." [GOC]

11924 Pathogen[ Q2Q067] interacts with 1 human partners:{P20823}

11925 Pathogen[ POC214] interacts with 1 human partners:{P10909}

11926 Pathogen[ P03346] interacts with 1 human partners:{P20823}

11927 Pathogen[ Q85601] interacts with 1 human partners:{P20823}

11928 Pathogen[ P14079] interacts with 1 human partners:{P10909}

11929 Pathogen[ P03410] interacts with 1 human partners:{P10909}

11930 Pathogen[ POC206] interacts with 2 human partners:{P20823;P10909}

11931 [Cluster 1905]GO:0097070+P biological\_process [name] ductus arteriosus closure [def] "The morphogenesis process in which the ductus arteriosus changes to no longer permit blood flow after birth. The ductus arteriosus is the shunt between the aorta and the pulmonary artery which allows blood to bypass the fetus' lungs." [GOC]

11932 Pathogen[ P03346] interacts with 1 human partners:{Q92481}

11933 [Cluster 1906]GO:0019464+P biological\_process [name] glycine decarboxylation via glycine cleavage system [def] "The chemical reactions and pathways resulting in the breakdown of glycine by oxidative cleavage to carbon dioxide, ammonia, and a methylene group, mediated by enzymes of the glycine cleavage complex." [MetaCyc]

11934 Pathogen[ P14079] interacts with 1 human partners:{P23434}

11935 Pathogen[ P03410] interacts with 1 human partners:{P23434}

11936 Pathogen[ POC206] interacts with 1 human partners:{P23434}

11937 [Cluster 1907]GO:0051898+P biological\_process [name] negative regulation of protein kinase B signaling cascade [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the protein kinase B signaling cascade, a series of reactions mediated by the intracellular serine/threonine kinase protein kinase B." [GOC]

11938 Pathogen[ Q2Q067] interacts with 1 human partners:{Q86UL8}

11939 Pathogen[ P03346] interacts with 3 human partners:{O60688;Q86UL8;Q9HB21}

11940 Pathogen[ Q85601] interacts with 2 human partners:{Q86UL8;Q9HB21}

11941 Pathogen[ P14079] interacts with 4 human partners:{O60688;Q14118;Q86UL8;Q9HB21}

11942 Pathogen[ P03410] interacts with 4 human partners:{Q9HB21;O60688;Q14118;Q86UL8}

11943 Pathogen[ POC206] interacts with 3 human partners:{Q9HB21;Q86UL8;O60688}

11944 Pathogen[ P03363] interacts with 2 human partners:{O60688;Q86UL8}

11945 [Cluster 1908]GO:0006273+P biological\_process [name] lagging strand elongation [def] "The synthesis of DNA from a template strand in a net 3' to 5' direction. Lagging strand DNA elongation proceeds by discontinuous synthesis of short stretches of DNA, known as Okazaki fragments, from RNA primers\_ these fragments are then joined by DNA ligase. Although each segment of nascent DNA is synthesized in the 5' to 3' direction, the overall direction of lagging strand synthesis is 3' to 5', mirroring the progress of the replication fork." [ISBN]

11946 Pathogen[ P14079] interacts with 1 human partners:{P49917}

11947 Pathogen[ POC206] interacts with 2 human partners:{P49917;P49916}

11948 [Cluster 1909]GO:0051023+P biological\_process [name] regulation of immunoglobulin secretion [def] "Any process that modulates the frequency, rate or extent of the regulated release of immunoglobulins from a cell or group of cells." [GOC]

11949 Pathogen[ Q2Q067] interacts with 1 human partners:{Q12933}

11950 Pathogen[ POC214] interacts with 1 human partners:{Q12933}

11951 Pathogen[ Q85601] interacts with 1 human partners:{Q12933}

11952 Pathogen[ P14079] interacts with 1 human partners:{Q12933}

11953 Pathogen[ P03383] interacts with 1 human partners:{Q12933}

11954 Pathogen[ P03410] interacts with 1 human partners:{Q12933}

11955 Pathogen[ P14075] interacts with 1 human partners:{Q12933}

11956 Pathogen[ POC206] interacts with 1 human partners:{Q12933}

11957 Pathogen[ P03363] interacts with 1 human partners:{Q12933}

11958 [Cluster 1910]GO:2000543+P biological\_process [name] positive regulation of gastrulation [def] "Any process that activates or increases the frequency, rate or extent of gastrulation." [GOC]

11959 Pathogen[ POC214] interacts with 1 human partners:{P32243}

11960 Pathogen[ P03346] interacts with 1 human partners:{P32243}

11961 Pathogen[ Q85601] interacts with 1 human partners:{P32243}

11962 Pathogen[ P14079] interacts with 1 human partners:{P32243}

11963 Pathogen[ P03383] interacts with 1 human partners:{P32243}

11964 Pathogen[ P03410] interacts with 1 human partners:{P32243}

11965 Pathogen[ P14075] interacts with 1 human partners:{P32243}

11966 Pathogen[ POC206] interacts with 1 human partners:{P32243}

11967 Pathogen[ P03363] interacts with 1 human partners:{P32243}

11968 [Cluster 1911]GO:0048505+P biological\_process [name] regulation of timing of cell differentiation [def] "The process controlling the activation and/or rate at which relatively unspecialized cells acquire specialized features. Any process that modulates the rate, frequency or extent of the XXX at a consistent predetermined time point during its development." [GOC]

11969 Pathogen[ POC214] interacts with 1 human partners:{P07093}

11970 Pathogen[ Q85601] interacts with 1 human partners:{P07093}

11971 [Cluster 1912]GO:0009191+P biological\_process [name] ribonucleoside diphosphate catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of a ribonucleoside diphosphate, a compound consisting of a nucleobase linked to a ribose sugar esterified with diphosphate on the sugar." [GOC  
 11972 Pathogen[ P14079] interacts with 1 human partners:{Q9UKK9}  
 11973 Pathogen[ P03410] interacts with 1 human partners:{Q9UKK9}  
 11974 [Cluster 1913]GO:0051987+P biological\_process [name] positive regulation of attachment of spindle microtubules to kinetochore [def] "Any process that activates or increases the frequency, rate or extent of the attachment of spindle microtubules to the kinetochore." [GOC  
 11975 Pathogen[ Q2Q067] interacts with 1 human partners:{P14635}  
 11976 Pathogen[ P0C214] interacts with 1 human partners:{P14635}  
 11977 Pathogen[ P03346] interacts with 1 human partners:{P14635}  
 11978 Pathogen[ Q85601] interacts with 1 human partners:{P14635}  
 11979 Pathogen[ P14079] interacts with 1 human partners:{P14635}  
 11980 Pathogen[ P03383] interacts with 1 human partners:{P14635}  
 11981 Pathogen[ P03410] interacts with 1 human partners:{P14635}  
 11982 Pathogen[ P14075] interacts with 1 human partners:{P14635}  
 11983 Pathogen[ P0C206] interacts with 1 human partners:{P14635}  
 11984 [Cluster 1914]GO:0033160+P biological\_process [name] positive regulation of protein import into nucleus, translocation [def] "Any process that activates or increases the vectorial transfer of a protein from the cytoplasm into the nucleus, across the nuclear membrane." [GOC  
 11985 Pathogen[ P0C214] interacts with 2 human partners:{O95071;Q86WV6}  
 11986 Pathogen[ P03346] interacts with 1 human partners:{O95071}  
 11987 Pathogen[ Q85601] interacts with 2 human partners:{Q86WV6;O95071}  
 11988 Pathogen[ P14079] interacts with 2 human partners:{Q7Z434;Q86WV6}  
 11989 Pathogen[ P03410] interacts with 2 human partners:{Q7Z434;Q86WV6}  
 11990 Pathogen[ P0C206] interacts with 2 human partners:{Q86WV6;O95071}  
 11991 Pathogen[ P03363] interacts with 1 human partners:{O95071}  
 11992 [Cluster 1915]GO:0010761+P biological\_process [name] fibroblast migration [def] "Cell migration that is accomplished by extension and retraction of a fibroblast pseudopodium. A fibroblast is a connective tissue cell which secretes an extracellular matrix rich in collagen and other macromolecules." [GOC  
 11993 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9HBL0;Q14865}  
 11994 Pathogen[ P0C214] interacts with 2 human partners:{Q14865;Q9HBL0}  
 11995 Pathogen[ P03346] interacts with 3 human partners:{Q8WXH0;Q9HBL0;Q14865}  
 11996 Pathogen[ Q85601] interacts with 2 human partners:{Q14865;Q9HBL0}  
 11997 Pathogen[ P14079] interacts with 3 human partners:{Q14865;Q9HBL0;Q8WXH0}  
 11998 Pathogen[ P03410] interacts with 3 human partners:{Q9HBL0;Q14865;Q8WXH0}  
 11999 Pathogen[ P0C206] interacts with 3 human partners:{Q9HBL0;Q8WXH0;Q14865}  
 12000 Pathogen[ P03363] interacts with 2 human partners:{Q14865;Q9HBL0}  
 12001 [Cluster 1916]GO:0071283+P biological\_process [name] cellular response to iron(III) ion [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an iron(III) ion stimulus." [GOC  
 12002 Pathogen[ Q2Q067] interacts with 1 human partners:{P14635}  
 12003 Pathogen[ P0C214] interacts with 1 human partners:{P14635}  
 12004 Pathogen[ P03346] interacts with 1 human partners:{P14635}  
 12005 Pathogen[ Q85601] interacts with 1 human partners:{P14635}  
 12006 Pathogen[ P14079] interacts with 1 human partners:{P14635}  
 12007 Pathogen[ P03383] interacts with 1 human partners:{P14635}  
 12008 Pathogen[ P03410] interacts with 1 human partners:{P14635}  
 12009 Pathogen[ P14075] interacts with 1 human partners:{P14635}  
 12010 Pathogen[ P0C206] interacts with 1 human partners:{P14635}  
 12011 [Cluster 1917]GO:0016486+P biological\_process [name] peptide hormone processing [def] "The generation of a mature peptide hormone by posttranslational processing of a prohormone." [GOC  
 12012 Pathogen[ P14079] interacts with 3 human partners:{P01215;P05408;P01225}  
 12013 Pathogen[ P03383] interacts with 1 human partners:{P01215}  
 12014 Pathogen[ P03410] interacts with 2 human partners:{P01215;P05408}  
 12015 Pathogen[ P14075] interacts with 1 human partners:{P01215}  
 12016 Pathogen[ P0C206] interacts with 1 human partners:{P01215}  
 12017 [Cluster 1918]GO:0002192+P biological\_process [name] IRES-dependent translational initiation [def] "The process where translation initiation recruits the 40S ribosomal subunits via an internal ribosome entry segment (IRES) before an AUG codon is encountered in an appropriate sequence context to initiate mRNA translation." [PMID  
 12018 Pathogen[ P03346] interacts with 1 human partners:{Q9BWF3}  
 12019 Pathogen[ P03363] interacts with 1 human partners:{Q9BWF3}  
 12020 [Cluster 1919]GO:0055098+P biological\_process [name] response to low-density lipoprotein particle stimulus [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a low-density lipoprotein particle stimulus." [GOC  
 12021 Pathogen[ P03346] interacts with 1 human partners:{Q12772}  
 12022 Pathogen[ Q85601] interacts with 1 human partners:{Q12772}  
 12023 Pathogen[ P14079] interacts with 1 human partners:{Q12772}

12024 Pathogen[ P03410] interacts with 1 human partners:{Q12772}

12025 Pathogen[ P0C206] interacts with 1 human partners:{Q12772}

12026 [Cluster 1920]GO:0043089+P biological\_process [name] positive regulation of Cdc42 GTPase activity [def] "Any process that activates or increases the activity of the GTPase Cdc42." [GOC

12027 Pathogen[ P03346] interacts with 1 human partners:{Q9H8V3}

12028 Pathogen[ P14079] interacts with 1 human partners:{Q9H8V3}

12029 Pathogen[ P03410] interacts with 1 human partners:{Q9H8V3}

12030 Pathogen[ P0C206] interacts with 1 human partners:{Q9H8V3}

12031 [Cluster 1921]GO:0033173+P biological\_process [name] calcineurin-NFAT signaling pathway [def] "A series of molecular signals that results in activation of transcription by a member of the NFAT protein family as a consequence of NFAT dephosphorylation by activated calcineurin. The signaling is generated by a receptor binding a ligand, followed by activation of phospholipase C and the subsequent release of inositol trisphosphate, which in turn leads to an increase in intracellular calcium ion concentration that mediates the activation of calcineurin." [GOC

12032 Pathogen[ Q2Q067] interacts with 1 human partners:{Q08209}

12033 Pathogen[ P0C214] interacts with 1 human partners:{Q08209}

12034 Pathogen[ P03346] interacts with 1 human partners:{Q08209}

12035 Pathogen[ Q85601] interacts with 1 human partners:{Q08209}

12036 Pathogen[ P14079] interacts with 2 human partners:{Q9GZZ8;Q08209}

12037 Pathogen[ P03410] interacts with 2 human partners:{Q08209;Q9GZZ8}

12038 Pathogen[ P14075] interacts with 1 human partners:{Q9GZZ8}

12039 Pathogen[ P0C206] interacts with 1 human partners:{Q08209}

12040 [Cluster 1922]GO:0007608+P biological\_process [name] sensory perception of smell [def] "The series of events required for an organism to receive an olfactory stimulus, convert it to a molecular signal, and recognize and characterize the signal. Olfaction involves the detection of chemical composition of an organism's ambient medium by chemoreceptors. This is a neurological process." [GOC

12041 Pathogen[ P14079] interacts with 1 human partners:{P47874}

12042 Pathogen[ P03410] interacts with 1 human partners:{P47874}

12043 [Cluster 1923]GO:0051896+P biological\_process [name] regulation of protein kinase B signaling cascade [def] "Any process that modulates the frequency, rate or extent of the protein kinase B signaling cascade, a series of reactions mediated by the intracellular serine/threonine kinase protein kinase B." [GOC

12044 Pathogen[ Q2Q067] interacts with 1 human partners:{Q6R327}

12045 Pathogen[ P0C214] interacts with 2 human partners:{Q6R327;Q9H4P4}

12046 Pathogen[ P03346] interacts with 2 human partners:{Q9H4P4;Q6R327}

12047 Pathogen[ Q85601] interacts with 1 human partners:{Q9H4P4}

12048 Pathogen[ P14079] interacts with 1 human partners:{Q6R327}

12049 Pathogen[ P03410] interacts with 1 human partners:{Q6R327}

12050 Pathogen[ P14075] interacts with 1 human partners:{Q6R327}

12051 Pathogen[ P0C206] interacts with 2 human partners:{Q9H4P4;Q6R327}

12052 Pathogen[ P03363] interacts with 2 human partners:{Q9H4P4;Q6R327}

12053 [Cluster 1924]GO:0046888+P biological\_process [name] negative regulation of hormone secretion [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the regulated release of a hormone from a cell or group of cells." [GOC

12054 Pathogen[ P14079] interacts with 1 human partners:{P20809}

12055 Pathogen[ P03410] interacts with 1 human partners:{P20809}

12056 Pathogen[ P14075] interacts with 1 human partners:{P20809}

12057 Pathogen[ P0C206] interacts with 1 human partners:{P20809}

12058 [Cluster 1925]GO:0061326+P biological\_process [name] renal tubule development [def] "The progression of the renal tubule over time from its formation to the mature form. A renal tubule is a tube that filters, re-absorbs and secretes substances to rid an organism of waste and to play a role in fluid homeostasis." [GOC

12059 Pathogen[ Q2Q067] interacts with 1 human partners:{P42224}

12060 Pathogen[ P0C214] interacts with 1 human partners:{P42224}

12061 Pathogen[ P03346] interacts with 1 human partners:{P42224}

12062 Pathogen[ Q85601] interacts with 1 human partners:{P42224}

12063 Pathogen[ P14079] interacts with 1 human partners:{P42224}

12064 Pathogen[ P0C206] interacts with 1 human partners:{P42224}

12065 [Cluster 1926]GO:0042520+P biological\_process [name] positive regulation of tyrosine phosphorylation of Stat4 protein [def] "Any process that activates or increases the frequency, rate or extent of the introduction of a phosphate group to a tyrosine residue of a Stat4 protein." [GOC

12066 Pathogen[ P14079] interacts with 1 human partners:{P29459}

12067 Pathogen[ P03410] interacts with 1 human partners:{P29459}

12068 [Cluster 1927]GO:0051684+P biological\_process [name] maintenance of Golgi location [def] "Any process in which the Golgi is maintained in a specific location within a cell and prevented from moving elsewhere." [GOC

12069 Pathogen[ P03346] interacts with 1 human partners:{Q9NVR7}

12070 Pathogen[ P14079] interacts with 1 human partners:{Q9NVR7}

12071 Pathogen[ P03410] interacts with 1 human partners:{Q9NVR7}

12072 Pathogen[ P0C206] interacts with 1 human partners:{Q9NVR7}

12073 Pathogen[ P03363] interacts with 1 human partners:{Q9NVR7}

12074 [Cluster 1928]GO:0048755+P biological\_process [name] branching morphogenesis of a

nerve [def] "The process in which the anatomical structures of branches in a nerve are generated and organized. This term refers to an anatomical structure (nerve) not a cell (neuron)." [GOC

12075 Pathogen[ Q2Q067] interacts with 1 human partners:{Q07687}

12076 Pathogen[ P0C214] interacts with 1 human partners:{Q07687}

12077 Pathogen[ Q85601] interacts with 1 human partners:{Q07687}

12078 Pathogen[ P14079] interacts with 1 human partners:{Q07687}

12079 Pathogen[ P03383] interacts with 1 human partners:{Q07687}

12080 Pathogen[ P03410] interacts with 1 human partners:{Q07687}

12081 Pathogen[ P14075] interacts with 1 human partners:{Q07687}

12082 Pathogen[ P0C206] interacts with 1 human partners:{Q07687}

12083 Pathogen[ P03363] interacts with 1 human partners:{Q07687}

12084 [Cluster 1929]GO:0071316+P biological\_process [name] cellular response to nicotine [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a nicotine stimulus." [GOC

12085 Pathogen[ P0C214] interacts with 1 human partners:{Q92934}

12086 Pathogen[ P14079] interacts with 1 human partners:{Q92934}

12087 Pathogen[ P03410] interacts with 1 human partners:{Q92934}

12088 Pathogen[ P0C206] interacts with 1 human partners:{Q92934}

12089 [Cluster 1930]GO:0051788+P biological\_process [name] response to misfolded protein [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a misfolded protein stimulus." [GOC

12090 Pathogen[ P0C214] interacts with 1 human partners:{P10909}

12091 Pathogen[ P14079] interacts with 1 human partners:{P10909}

12092 Pathogen[ P03410] interacts with 1 human partners:{P10909}

12093 Pathogen[ P0C206] interacts with 1 human partners:{P10909}

12094 [Cluster 1931]GO:0009597+P biological\_process [name] detection of virus [def] "The series of events in which a stimulus from a virus is received and converted into a molecular signal." [GOC

12095 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BYX4}

12096 Pathogen[ P0C214] interacts with 1 human partners:{Q9BYX4}

12097 Pathogen[ P03346] interacts with 1 human partners:{Q9BYX4}

12098 Pathogen[ Q85601] interacts with 1 human partners:{Q9BYX4}

12099 Pathogen[ P14079] interacts with 1 human partners:{Q9BYX4}

12100 Pathogen[ P03410] interacts with 1 human partners:{Q9BYX4}

12101 Pathogen[ P0C206] interacts with 1 human partners:{Q9BYX4}

12102 Pathogen[ P03363] interacts with 1 human partners:{Q9BYX4}

12103 [Cluster 1932]GO:0048266+P biological\_process [name] behavioral response to pain [def] "Any process that results in a change in the behavior of an organism as a result of a pain stimulus. Pain stimuli cause activation of nociceptors, peripheral receptors for pain, include receptors which are sensitive to painful mechanical stimuli, extreme heat or cold, and chemical stimuli." [GOC

12104 Pathogen[ Q2Q067] interacts with 1 human partners:{Q01196}

12105 Pathogen[ P03346] interacts with 1 human partners:{Q01196}

12106 [Cluster 1933]GO:0019307+P biological\_process [name] mannose biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of mannose, the aldohexose manno-hexose, the C-2 epimer of glucose." [GOC

12107 Pathogen[ P0C214] interacts with 1 human partners:{O15305}

12108 Pathogen[ P14079] interacts with 1 human partners:{O15305}

12109 Pathogen[ P03410] interacts with 1 human partners:{O15305}

12110 [Cluster 1934]GO:0036158+P

12111 Pathogen[ P14079] interacts with 1 human partners:{Q8IW40}

12112 Pathogen[ P03410] interacts with 1 human partners:{Q8IW40}

12113 Pathogen[ P0C206] interacts with 1 human partners:{Q8IW40}

12114 Pathogen[ P03363] interacts with 1 human partners:{Q8IW40}

12115 [Cluster 1935]GO:0043420+P biological\_process [name] anthranilate metabolic process [def] "The chemical reactions and pathways involving anthranilate (2-aminobenzoate)." [CHEBI

12116 Pathogen[ Q2Q067] interacts with 1 human partners:{Q16719}

12117 Pathogen[ P0C214] interacts with 1 human partners:{Q16719}

12118 Pathogen[ P03346] interacts with 1 human partners:{Q16719}

12119 Pathogen[ Q85601] interacts with 1 human partners:{Q16719}

12120 Pathogen[ P14079] interacts with 1 human partners:{Q16719}

12121 Pathogen[ P03383] interacts with 1 human partners:{Q16719}

12122 Pathogen[ P03410] interacts with 1 human partners:{Q16719}

12123 Pathogen[ P14075] interacts with 1 human partners:{Q16719}

12124 Pathogen[ P0C206] interacts with 1 human partners:{Q16719}

12125 [Cluster 1936]GO:0030644+P biological\_process [name] cellular chloride ion homeostasis [def] "Any process involved in the maintenance of an internal steady state of chloride ions at the level of a cell." [GOC

12126 Pathogen[ P0C214] interacts with 1 human partners:{P12277}

12127 [Cluster 1937]GO:0071156+P biological\_process [name] regulation of cell cycle arrest [def] "Any process that modulates the rate, frequency, or extent of cell cycle arrest, the process in which the cell cycle is halted during one of the normal phases." [GOC

12128 Pathogen[ Q2Q067] interacts with 2 human partners:{Q13562;Q08050}

12129 Pathogen[ P03346] interacts with 2 human partners:{Q08050;Q13562}

12130 Pathogen[ Q85601] interacts with 2 human partners:{Q13562;Q08050}

12131 Pathogen[ P14079] interacts with 1 human partners:{P31751}

12132 Pathogen[ P14075] interacts with 1 human partners:{Q08050}

12133 Pathogen[ P0C206] interacts with 2 human partners:{Q13562;Q08050}

12134 Pathogen[ P03363] interacts with 1 human partners:{Q08050}

12135 [Cluster 1938]GO:0030104+P biological\_process [name] water homeostasis [def] "Any process involved in the maintenance of an internal steady state of water within an organism or cell." [GOC]

12136 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96PU5}

12137 Pathogen[ P0C214] interacts with 1 human partners:{Q96PU5}

12138 Pathogen[ P03346] interacts with 1 human partners:{Q96PU5}

12139 Pathogen[ Q85601] interacts with 1 human partners:{Q96PU5}

12140 Pathogen[ P0C206] interacts with 1 human partners:{Q96PU5}

12141 Pathogen[ P03363] interacts with 1 human partners:{Q96PU5}

12142 [Cluster 1939]GO:0042415+P biological\_process [name] norepinephrine metabolic process [def] "The chemical reactions and pathways involving norepinephrine, a hormone secreted by the adrenal medulla, and a neurotransmitter in the sympathetic peripheral nervous system and in some tracts in the central nervous system. It is also the demethylated biosynthetic precursor of epinephrine." [GOC]

12143 Pathogen[ Q2Q067] interacts with 1 human partners:{Q99814}

12144 Pathogen[ P0C214] interacts with 1 human partners:{Q99814}

12145 Pathogen[ P03346] interacts with 1 human partners:{Q99814}

12146 Pathogen[ Q85601] interacts with 1 human partners:{Q99814}

12147 Pathogen[ P14079] interacts with 1 human partners:{Q99814}

12148 Pathogen[ P03410] interacts with 1 human partners:{Q99814}

12149 Pathogen[ P0C206] interacts with 1 human partners:{Q99814}

12150 Pathogen[ P03363] interacts with 1 human partners:{Q99814}

12151 [Cluster 1940]GO:0000305+P biological\_process [name] response to oxygen radical [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an oxygen radical stimulus. An oxygen radical is any oxygen species that carries a free electron\_ examples include hydroxyl radicals and the superoxide anion." [GOC]

12152 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NNW7}

12153 Pathogen[ P0C214] interacts with 1 human partners:{Q9NNW7}

12154 Pathogen[ P03346] interacts with 1 human partners:{Q9NNW7}

12155 Pathogen[ P14079] interacts with 1 human partners:{Q9NNW7}

12156 Pathogen[ P03410] interacts with 1 human partners:{Q9NNW7}

12157 Pathogen[ P0C206] interacts with 1 human partners:{Q9NNW7}

12158 Pathogen[ P03363] interacts with 1 human partners:{Q9NNW7}

12159 [Cluster 1941]GO:0034721+P biological\_process [name] histone H3-K4 demethylation, trimethyl-H3-K4-specific [def] "The modification of histone H3 by the removal of a methyl group from a trimethylated lysine at position 4 of the histone." [GOC]

12160 Pathogen[ P03346] interacts with 1 human partners:{Q9UGL1}

12161 [Cluster 1942]GO:0050482+P biological\_process [name] arachidonic acid secretion [def] "The controlled release of arachidonic acid from a cell or group of cells." [GOC]

12162 Pathogen[ P14079] interacts with 1 human partners:{P04083}

12163 [Cluster 1943]GO:0072047+P biological\_process [name] proximal/distal pattern formation involved in nephron development [def] "The regionalization process in which specific areas of cell differentiation are determined along a proximal/distal axis of a nephron. The proximal/distal axis is defined by a line that runs from the center of the kidney (proximal end) outward (distal end)." [GOC]

12164 Pathogen[ P03346] interacts with 1 human partners:{P78415}

12165 Pathogen[ P03363] interacts with 1 human partners:{P78415}

12166 [Cluster 1944]GO:0043009+P biological\_process [name] chordate embryonic development [def] "The process whose specific outcome is the progression of the embryo over time, from zygote formation through a stage including a notochord and neural tube until birth or egg hatching." [GOC]

12167 Pathogen[ P03346] interacts with 1 human partners:{P51587}

12168 Pathogen[ Q85601] interacts with 1 human partners:{P51587}

12169 Pathogen[ P14079] interacts with 2 human partners:{Q9HBM0;P51587}

12170 Pathogen[ P03410] interacts with 2 human partners:{Q9HBM0;P51587}

12171 Pathogen[ P14075] interacts with 1 human partners:{Q9HBM0}

12172 Pathogen[ P0C206] interacts with 2 human partners:{P51587;Q9HBM0}

12173 [Cluster 1945]GO:0043004+P biological\_process [name] cytoplasmic sequestering of CFTR protein [def] "The selective interaction of Cystic Fibrosis Transmembrane conductance Regulator (CFTR) protein with specific molecules in the cytoplasm, thereby inhibiting its transport to the cell membrane." [GOC]

12174 Pathogen[ P0C214] interacts with 1 human partners:{Q9HD26}

12175 Pathogen[ P03346] interacts with 1 human partners:{Q9HD26}

12176 Pathogen[ Q85601] interacts with 1 human partners:{Q9HD26}

12177 Pathogen[ P14079] interacts with 1 human partners:{Q9HD26}

12178 Pathogen[ P03383] interacts with 1 human partners:{Q9HD26}

12179 Pathogen[ P03410] interacts with 1 human partners:{Q9HD26}

12180 Pathogen[ P14075] interacts with 1 human partners:{Q9HD26}

12181 Pathogen[ P0C206] interacts with 1 human partners:{Q9HD26}

12182 Pathogen[ P03363] interacts with 1 human partners:{Q9HD26}

12183 [Cluster 1946]GO:0072385+P biological\_process [name] minus-end-directed organelle transport along microtubule [def] "The directed movement of an organelle towards the minus end of a microtubule, mediated by motor proteins. This process begins with the attachment of an organelle to a microtubule, and ends when the organelle reaches its final destination." [GOC

12184 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8TD16}

12185 Pathogen[ P0C214] interacts with 2 human partners:{Q8TD16;Q96G01}

12186 Pathogen[ P03346] interacts with 3 human partners:{Q96G01;P20340;Q8TD16}

12187 Pathogen[ Q85601] interacts with 2 human partners:{Q96G01;Q8TD16}

12188 Pathogen[ P14079] interacts with 2 human partners:{Q96G01;Q8TD16}

12189 Pathogen[ P03410] interacts with 2 human partners:{Q8TD16;Q96G01}

12190 Pathogen[ P0C206] interacts with 2 human partners:{Q8TD16;Q96G01}

12191 Pathogen[ P03363] interacts with 1 human partners:{Q8TD16}

12192 [Cluster 1947]GO:0006189+P biological\_process [name] 'de novo' IMP biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of IMP, inosine monophosphate, by the stepwise assembly of a purine ring on ribose 5-phosphate." [GOC

12193 Pathogen[ P0C214] interacts with 2 human partners:{P31939;P30566}

12194 Pathogen[ P14079] interacts with 3 human partners:{P22234;P31939;O15067}

12195 Pathogen[ P03410] interacts with 4 human partners:{P22234;P30566;O15067;P31939}

12196 Pathogen[ P0C206] interacts with 1 human partners:{P31939}

12197 [Cluster 1948]GO:0071482+P biological\_process [name] cellular response to light stimulus [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a light stimulus, electromagnetic radiation of wavelengths classified as infrared, visible or ultraviolet light." [GOC

12198 Pathogen[ P14079] interacts with 1 human partners:{P56715}

12199 Pathogen[ P03410] interacts with 1 human partners:{P56715}

12200 Pathogen[ P0C206] interacts with 1 human partners:{P56715}

12201 Pathogen[ P03363] interacts with 1 human partners:{P56715}

12202 [Cluster 1949]GO:0060026+P biological\_process [name] convergent extension [def] "The morphogenetic process in which an epithelium narrows along one axis and lengthens in a perpendicular axis." [GOC

12203 Pathogen[ Q2Q067] interacts with 1 human partners:{O14641}

12204 Pathogen[ P0C214] interacts with 1 human partners:{O14641}

12205 Pathogen[ P03346] interacts with 2 human partners:{P58012;O14641}

12206 Pathogen[ Q85601] interacts with 1 human partners:{O14641}

12207 Pathogen[ P14079] interacts with 1 human partners:{O14641}

12208 Pathogen[ P03383] interacts with 1 human partners:{O14641}

12209 Pathogen[ P03410] interacts with 1 human partners:{O14641}

12210 Pathogen[ P14075] interacts with 1 human partners:{O14641}

12211 Pathogen[ P03363] interacts with 1 human partners:{O14641}

12212 [Cluster 1950]GO:0032364+P biological\_process [name] oxygen homeostasis [def] "A homeostatic process involved in the maintenance of an internal steady state of oxygen within an organism or cell." [GOC

12213 Pathogen[ Q2Q067] interacts with 2 human partners:{P22557;Q9GZT9}

12214 Pathogen[ P0C214] interacts with 3 human partners:{Q9H6Q4;P22557;Q9GZT9}

12215 Pathogen[ P03346] interacts with 2 human partners:{P22557;Q9GZT9}

12216 Pathogen[ Q85601] interacts with 2 human partners:{Q9H6Q4;Q9GZT9}

12217 Pathogen[ P14079] interacts with 3 human partners:{Q9GZT9;P22557;Q9H6Q4}

12218 Pathogen[ P03383] interacts with 1 human partners:{Q9H6Q4}

12219 Pathogen[ P03410] interacts with 3 human partners:{Q9H6Q4;Q9GZT9;P22557}

12220 Pathogen[ P14075] interacts with 1 human partners:{Q9GZT9}

12221 Pathogen[ P0C206] interacts with 3 human partners:{Q9GZT9;P22557;Q9H6Q4}

12222 [Cluster 1951]GO:0001975+P biological\_process [name] response to amphetamine [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an amphetamine stimulus. Amphetamines consist of a group of compounds related to alpha-methylphenethylamine." [CHEBI

12223 Pathogen[ Q2Q067] interacts with 1 human partners:{Q08209}

12224 Pathogen[ P0C214] interacts with 1 human partners:{Q08209}

12225 Pathogen[ P03346] interacts with 2 human partners:{O14717;Q08209}

12226 Pathogen[ Q85601] interacts with 1 human partners:{Q08209}

12227 Pathogen[ P14079] interacts with 2 human partners:{P16298;Q08209}

12228 Pathogen[ P03410] interacts with 1 human partners:{Q08209}

12229 Pathogen[ P0C206] interacts with 1 human partners:{Q08209}

12230 Pathogen[ P03363] interacts with 1 human partners:{O14717}

12231 [Cluster 1952]GO:2000812+P biological\_process [name] regulation of barbed-end actin filament capping [def] "Any process that modulates the frequency, rate or extent of barbed-end actin filament capping." [GOC

12232 Pathogen[ P03346] interacts with 1 human partners:{P58546}

12233 [Cluster 1953]GO:0009072+P biological\_process [name] aromatic amino acid family metabolic process [def] "The chemical reactions and pathways involving aromatic amino

acid family, amino acids with aromatic ring (phenylalanine, tyrosine, tryptophan)." [GOC

12234 Pathogen[ Q2Q067] interacts with 1 human partners:{O43708}

12235 Pathogen[ POC214] interacts with 1 human partners:{O43708}

12236 Pathogen[ P03346] interacts with 1 human partners:{O43708}

12237 Pathogen[ Q85601] interacts with 1 human partners:{O43708}

12238 Pathogen[ P14079] interacts with 2 human partners:{O43708;P16930}

12239 Pathogen[ P03410] interacts with 2 human partners:{O43708;P16930}

12240 Pathogen[ POC206] interacts with 1 human partners:{O43708}

12241 Pathogen[ P03363] interacts with 1 human partners:{O43708}

12242 [Cluster 1954]GO:0006117+P biological\_process [name] acetaldehyde metabolic process [def] "The chemical reactions and pathways involving acetaldehyde, a colorless, flammable liquid intermediate in the metabolism of alcohol." [CHEBI

12243 Pathogen[ Q2Q067] interacts with 1 human partners:{Q04206}

12244 Pathogen[ POC214] interacts with 1 human partners:{Q04206}

12245 Pathogen[ P03346] interacts with 1 human partners:{Q04206}

12246 Pathogen[ Q85601] interacts with 1 human partners:{Q04206}

12247 Pathogen[ P03383] interacts with 1 human partners:{Q04206}

12248 Pathogen[ P03410] interacts with 1 human partners:{Q04206}

12249 Pathogen[ P14075] interacts with 1 human partners:{Q04206}

12250 Pathogen[ POC206] interacts with 1 human partners:{Q04206}

12251 Pathogen[ P03363] interacts with 1 human partners:{Q04206}

12252 [Cluster 1955]GO:0006565+P biological\_process [name] L-serine catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of L-serine, the L-enantiomer of serine, i.e. (2S)-2-amino-3-hydroxypropanoic acid." [CHEBI

12253 Pathogen[ Q2Q067] interacts with 1 human partners:{P34896}

12254 Pathogen[ POC214] interacts with 2 human partners:{P34896;P35520}

12255 Pathogen[ P03346] interacts with 1 human partners:{P20132}

12256 Pathogen[ Q85601] interacts with 1 human partners:{P34896}

12257 Pathogen[ P14079] interacts with 2 human partners:{P20132;P34896}

12258 Pathogen[ P03383] interacts with 1 human partners:{P34896}

12259 Pathogen[ P03410] interacts with 2 human partners:{P20132;P34896}

12260 Pathogen[ P14075] interacts with 1 human partners:{P34896}

12261 Pathogen[ POC206] interacts with 2 human partners:{P20132;P34896}

12262 [Cluster 1956]GO:0051966+P biological\_process [name] regulation of synaptic transmission, glutamatergic [def] "Any process that modulates the frequency, rate or extent of glutamatergic synaptic transmission, the process of communication from a neuron to another neuron across a synapse using the neurotransmitter glutamate." [GOC

12263 Pathogen[ POC214] interacts with 1 human partners:{P07093}

12264 Pathogen[ Q85601] interacts with 1 human partners:{P07093}

12265 [Cluster 1957]GO:0090141+P biological\_process [name] positive regulation of mitochondrial fission [def] "Any process that increases the rate, frequency or extent of mitochondrial fission. Mitochondrial fission is the division of a mitochondrion within a cell to form two or more separate mitochondrial compartments." [GOC

12266 Pathogen[ Q2Q067] interacts with 1 human partners:{Q12983}

12267 Pathogen[ POC214] interacts with 1 human partners:{Q12983}

12268 Pathogen[ P03346] interacts with 1 human partners:{Q12983}

12269 Pathogen[ Q85601] interacts with 1 human partners:{Q12983}

12270 Pathogen[ P14079] interacts with 1 human partners:{Q12983}

12271 Pathogen[ P03383] interacts with 1 human partners:{Q12983}

12272 Pathogen[ P03410] interacts with 1 human partners:{Q12983}

12273 Pathogen[ P14075] interacts with 1 human partners:{Q12983}

12274 Pathogen[ POC206] interacts with 1 human partners:{Q12983}

12275 [Cluster 1958]GO:0010988+P biological\_process [name] regulation of low-density lipoprotein particle clearance [def] "Any process that modulates the rate, frequency or extent of low-density lipoprotein particle clearance. Low-density lipoprotein particle clearance is the process in which a low-density lipoprotein particle is removed from the blood via receptor-mediated endocytosis and its constituent parts degraded." [GOC

12276 Pathogen[ Q2Q067] interacts with 1 human partners:{P61978}

12277 Pathogen[ P03346] interacts with 2 human partners:{P61978;Q9Y2B0}

12278 Pathogen[ Q85601] interacts with 1 human partners:{P61978}

12279 Pathogen[ P14079] interacts with 2 human partners:{P61978;Q9Y2B0}

12280 Pathogen[ P03383] interacts with 1 human partners:{P61978}

12281 Pathogen[ P03410] interacts with 2 human partners:{P61978;Q9Y2B0}

12282 Pathogen[ P14075] interacts with 1 human partners:{P61978}

12283 Pathogen[ POC206] interacts with 1 human partners:{P61978}

12284 Pathogen[ P03363] interacts with 1 human partners:{P61978}

12285 [Cluster 1959]GO:0060630+P biological\_process [name] regulation of M/G1 transition of mitotic cell cycle [def] "Any process that modulates the rate, frequency, or extent of M/G1 transition of the mitotic cell cycle, the progression from M phase to G1 phase of the mitotic cell cycle." [GOC

12286 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9H4X1}

12287 Pathogen[ POC214] interacts with 1 human partners:{Q9H4X1}

12288 Pathogen[ P03346] interacts with 1 human partners:{Q9H4X1}

12289 Pathogen[ Q85601] interacts with 1 human partners:{Q9H4X1}

12290 Pathogen[ P03383] interacts with 1 human partners:{Q9H4X1}

12291 Pathogen[ P03410] interacts with 1 human partners:{Q9H4X1}

12292 Pathogen[ P14075] interacts with 1 human partners:{Q9H4X1}

12293 Pathogen[ P0C206] interacts with 1 human partners:{Q9H4X1}

12294 Pathogen[ P03363] interacts with 1 human partners:{Q9H4X1}

12295 [Cluster 1960]GO:2001212+P biological\_process [name] regulation of vasculogenesis [def] "Any process that modulates the frequency, rate or extent of vasculogenesis." [GOC]

12296 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9Y5J3}

12297 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y5J3}

12298 Pathogen[ P03346] interacts with 1 human partners:{Q9Y5J3}

12299 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y5J3}

12300 Pathogen[ P14079] interacts with 1 human partners:{Q9Y5J3}

12301 Pathogen[ P03410] interacts with 1 human partners:{Q9Y5J3}

12302 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y5J3}

12303 Pathogen[ P03363] interacts with 1 human partners:{Q9Y5J3}

12304 [Cluster 1961]GO:0060687+P biological\_process [name] regulation of branching involved in prostate gland morphogenesis [def] "Any process that modulates the rate, frequency, or extent of prostate gland branching, the process in which the branching structure of the prostate gland is generated and organized. A branch is a division or offshoot from a main stem." [GOC]

12305 Pathogen[ P03346] interacts with 1 human partners:{P35453}

12306 Pathogen[ P03363] interacts with 1 human partners:{P35453}

12307 [Cluster 1962]GO:0070535+P biological\_process [name] histone H2A K63-linked ubiquitination [def] "A histone ubiquitination process in which a polymer of ubiquitin, formed by linkages between lysine residues at position 63 of the ubiquitin monomers, is added to a lysine residue in histone H2A or the variant H2AX." [GOC]

12308 Pathogen[ Q2Q067] interacts with 1 human partners:{O76064}

12309 Pathogen[ P0C214] interacts with 2 human partners:{Q8IYW5;O76064}

12310 Pathogen[ P03346] interacts with 2 human partners:{O76064;Q8IYW5}

12311 Pathogen[ Q85601] interacts with 2 human partners:{O76064;Q8IYW5}

12312 Pathogen[ P0C206] interacts with 2 human partners:{Q8IYW5;O76064}

12313 Pathogen[ P03363] interacts with 1 human partners:{Q8IYW5}

12314 [Cluster 1963]GO:0048280+P biological\_process [name] vesicle fusion with Golgi apparatus [def] "The joining of the lipid bilayer membrane around a vesicle to the lipid bilayer membrane around the Golgi." [GOC]

12315 Pathogen[ Q2Q067] interacts with 2 human partners:{O15155;O60763}

12316 Pathogen[ P0C214] interacts with 2 human partners:{O60763;O15155}

12317 Pathogen[ P03346] interacts with 3 human partners:{Q13190;O60763;O15155}

12318 Pathogen[ Q85601] interacts with 2 human partners:{O60763;O15155}

12319 Pathogen[ P14079] interacts with 2 human partners:{O15155;O60763}

12320 Pathogen[ P03410] interacts with 3 human partners:{Q13190;O60763;O15155}

12321 Pathogen[ P0C206] interacts with 2 human partners:{O15155;O60763}

12322 Pathogen[ P03363] interacts with 1 human partners:{O60763}

12323 [Cluster 1964]GO:0048034+P biological\_process [name] heme O biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of heme O, a derivative of heme containing a 17-carbon hydroxyethylfarnesyl side chain at position 8 of the tetrapyrrole macrocycle." [GOC]

12324 Pathogen[ P14079] interacts with 1 human partners:{Q12887}

12325 Pathogen[ P03410] interacts with 1 human partners:{Q12887}

12326 [Cluster 1965]GO:0002155+P biological\_process [name] regulation of thyroid hormone mediated signaling pathway [def] "Any process that modulates the frequency, rate or extent of a thyroid hormone mediated signaling pathway." [GOC]

12327 Pathogen[ Q2Q067] interacts with 1 human partners:{P10827}

12328 Pathogen[ P03346] interacts with 1 human partners:{P10827}

12329 Pathogen[ Q85601] interacts with 1 human partners:{P10827}

12330 Pathogen[ P14079] interacts with 1 human partners:{P10827}

12331 Pathogen[ P0C206] interacts with 1 human partners:{P10827}

12332 [Cluster 1966]GO:0003091+P biological\_process [name] renal water homeostasis [def] "Renal process involved in the maintenance of an internal steady state of water in the body." [GOC]

12333 Pathogen[ P03346] interacts with 1 human partners:{Q92481}

12334 [Cluster 1967]GO:0021707+P biological\_process [name] cerebellar granule cell differentiation [def] "The process in which neuroblasts acquire specialized structural and/or functional features that characterize the mature cerebellar granule cell. Differentiation includes the processes involved in commitment of a neuroblast to a granule cell fate. A granule cell is a glutamatergic interneuron found in the cerebellar cortex." [GO\_REF]

12335 Pathogen[ P03346] interacts with 1 human partners:{P58546}

12336 [Cluster 1968]GO:0006438+P biological\_process [name] valyl-tRNA aminoacylation [def] "The process of coupling valine to valyl-tRNA, catalyzed by valyl-tRNA synthetase. In tRNA aminoacylation, the amino acid is first activated by linkage to AMP and then transferred to either the 2'- or the 3'-hydroxyl group of the 3'-adenosine residue of the tRNA." [GOC]

12337 Pathogen[ P0C214] interacts with 2 human partners:{P26640;Q5ST30}

12338 Pathogen[ P14079] interacts with 2 human partners:{Q5ST30;P26640}

12339 Pathogen[ P03410] interacts with 2 human partners:{Q5ST30;P26640}

12340 Pathogen[ P0C206] interacts with 2 human partners:{Q5ST30;P26640}

12341 [Cluster 1969]GO:0071985+P biological\_process [name] multivesicular body sorting



pathway [def] "A vesicle-mediated transport process in which transmembrane proteins are ubiquitylated to facilitate their entry into luminal vesicles of multivesicular bodies (MVBs)\_ upon subsequent fusion of MVBs with lysosomes or vacuoles, the cargo proteins are degraded." [GOC

12342 Pathogen[ P14079] interacts with 1 human partners:{Q8NEV8}

12343 Pathogen[ P03410] interacts with 1 human partners:{Q8NEV8}

12344 [Cluster 1970]GO:0048265+P biological\_process [name] response to pain [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a pain stimulus. Pain stimuli cause activation of nociceptors, peripheral receptors for pain, include receptors which are sensitive to painful mechanical stimuli, extreme heat or cold, and chemical stimuli." [GOC

12345 Pathogen[ Q2Q067] interacts with 1 human partners:{P30793}

12346 Pathogen[ P0C214] interacts with 1 human partners:{P30793}

12347 Pathogen[ Q85601] interacts with 1 human partners:{P30793}

12348 Pathogen[ P14079] interacts with 1 human partners:{P30793}

12349 Pathogen[ P03410] interacts with 1 human partners:{P30793}

12350 Pathogen[ P14075] interacts with 1 human partners:{P30793}

12351 Pathogen[ P0C206] interacts with 1 human partners:{P30793}

12352 [Cluster 1971]GO:0044375+P biological\_process [name] regulation of peroxisome size [def] "Any process that modulates the volume of a peroxisome, a small, membrane-bounded organelle that uses dioxygen (O2) to oxidize organic molecules." [GOC

12353 Pathogen[ P03346] interacts with 1 human partners:{O96011}

12354 Pathogen[ P14079] interacts with 3 human partners:{O75192;Q96HA9;O96011}

12355 Pathogen[ P03383] interacts with 1 human partners:{Q96HA9}

12356 Pathogen[ P03410] interacts with 3 human partners:{O75192;O96011;Q96HA9}

12357 Pathogen[ P14075] interacts with 2 human partners:{Q96HA9;O75192}

12358 Pathogen[ P0C206] interacts with 3 human partners:{O75192;Q96HA9;O96011}

12359 [Cluster 1972]GO:0002634+P biological\_process [name] regulation of germinal center formation [def] "Any process that modulates the frequency, rate, or extent of germinal center formation." [GOC

12360 Pathogen[ Q2Q067] interacts with 1 human partners:{P41182}

12361 Pathogen[ P0C214] interacts with 1 human partners:{P41182}

12362 Pathogen[ P03346] interacts with 1 human partners:{P41182}

12363 Pathogen[ Q85601] interacts with 1 human partners:{P41182}

12364 Pathogen[ P14079] interacts with 2 human partners:{Q06413;P41182}

12365 Pathogen[ P03410] interacts with 1 human partners:{P41182}

12366 Pathogen[ P0C206] interacts with 1 human partners:{P41182}

12367 [Cluster 1973]GO:0002380+P biological\_process [name] immunoglobulin secretion involved in immune response [def] "The regulated release of immunoglobulins from a B cell or plasma cell contributing to an immune response." [GOC

12368 Pathogen[ Q2Q067] interacts with 1 human partners:{P09086}

12369 Pathogen[ P0C214] interacts with 1 human partners:{P09086}

12370 Pathogen[ P03346] interacts with 1 human partners:{P09086}

12371 Pathogen[ Q85601] interacts with 1 human partners:{P09086}

12372 Pathogen[ P14079] interacts with 1 human partners:{P09086}

12373 Pathogen[ P0C206] interacts with 1 human partners:{P09086}

12374 Pathogen[ P03363] interacts with 1 human partners:{P09086}

12375 [Cluster 1974]GO:0021785+P biological\_process [name] branchiomotor neuron axon guidance [def] "The process in which a branchiomotor neuron growth cone is directed to a specific target site. Branchiomotor neurons are located in the hindbrain and innervate branchial arch-derived muscles that control jaw movements, facial expression, the larynx, and the pharynx." [GO\_REF

12376 Pathogen[ P03346] interacts with 1 human partners:{O75592}

12377 [Cluster 1975]GO:0003197+P biological\_process [name] endocardial cushion development [def] "The progression of a cardiac cushion over time, from its initial formation to the mature structure. The endocardial cushion is a specialized region of mesenchymal cells that will give rise to the heart septa and valves." [GOC

12378 Pathogen[ P03346] interacts with 1 human partners:{Q99593}

12379 [Cluster 1976]GO:0002368+P biological\_process [name] B cell cytokine production [def] "Any process that contributes to cytokine production by a B cell." [GOC

12380 Pathogen[ P0C214] interacts with 1 human partners:{P10809}

12381 [Cluster 1977]GO:0019262+P biological\_process [name] N-acetylneuraminate catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of N-acetylneuraminate, the anion of 5-(acetyl-amino)-3,5-dideoxy-D-glycero-D-galacto-non-3-ulosonic acid." [ISBN

12382 Pathogen[ P0C214] interacts with 1 human partners:{Q9BXD5}

12383 Pathogen[ Q85601] interacts with 1 human partners:{Q9BXD5}

12384 Pathogen[ P14079] interacts with 1 human partners:{Q9BXD5}

12385 Pathogen[ P03410] interacts with 1 human partners:{Q9BXD5}

12386 Pathogen[ P14075] interacts with 1 human partners:{Q9BXD5}

12387 Pathogen[ P0C206] interacts with 1 human partners:{Q9BXD5}

12388 Pathogen[ P03363] interacts with 1 human partners:{Q9BXD5}

12389 [Cluster 1978]GO:0048532+P biological\_process [name] anatomical structure arrangement [def] "The process that gives rise to the configuration of the constituent parts of an anatomical structure. This process pertains to the physical shaping of a rudimentary

structure. Anatomical structures can be macroscopic such as a carpel, or microscopic such as an acrosome." [GOC

12390 Pathogen[ Q2Q067] interacts with 1 human partners:{P63000}

12391 Pathogen[ P0C214] interacts with 1 human partners:{P63000}

12392 Pathogen[ P03346] interacts with 1 human partners:{P63000}

12393 Pathogen[ Q85601] interacts with 1 human partners:{P63000}

12394 Pathogen[ P03383] interacts with 1 human partners:{P63000}

12395 Pathogen[ P03410] interacts with 1 human partners:{P63000}

12396 Pathogen[ P14075] interacts with 1 human partners:{P63000}

12397 Pathogen[ P0C206] interacts with 1 human partners:{P63000}

12398 Pathogen[ P03363] interacts with 1 human partners:{P63000}

12399 [Cluster 1979]GO:0006597+P biological\_process [name] spermine biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of spermine, a polybasic amine found in human sperm, in ribosomes and in some viruses and involved in nucleic acid packaging." [CHEBI

12400 Pathogen[ P0C214] interacts with 1 human partners:{P52788}

12401 Pathogen[ P14079] interacts with 1 human partners:{P17707}

12402 Pathogen[ P03410] interacts with 2 human partners:{P52788;P17707}

12403 [Cluster 1980]GO:0060441+P biological\_process [name] epithelial tube branching involved in lung morphogenesis [def] "The process in which a highly ordered sequence of patterning events generates the branched epithelial tubes of the lung, consisting of reiterated combinations of bud outgrowth, elongation, and dichotomous subdivision of terminal units." [GOC

12404 Pathogen[ Q2Q067] interacts with 1 human partners:{P20719}

12405 Pathogen[ P03346] interacts with 1 human partners:{P20719}

12406 Pathogen[ P14079] interacts with 1 human partners:{Q14118}

12407 Pathogen[ P03410] interacts with 1 human partners:{Q14118}

12408 Pathogen[ P0C206] interacts with 1 human partners:{P20719}

12409 Pathogen[ P03363] interacts with 1 human partners:{P20719}

12410 [Cluster 1981]GO:0022612+P biological\_process [name] gland morphogenesis [def] "The process in which the anatomical structures of a gland are generated and organized." [GOC

12411 Pathogen[ P03346] interacts with 2 human partners:{P35453;Q8TAU0}

12412 Pathogen[ P0C206] interacts with 1 human partners:{Q8TAU0}

12413 Pathogen[ P03363] interacts with 2 human partners:{P35453;Q8TAU0}

12414 [Cluster 1982]GO:0050893+P biological\_process [name] sensory processing [def] "Any neural process required for an organism to sense and interpret the dimensions of a sensory experience

12415 Pathogen[ P03346] interacts with 1 human partners:{Q8TAM2}

12416 Pathogen[ P14079] interacts with 1 human partners:{Q8TAM2}

12417 Pathogen[ P03410] interacts with 1 human partners:{Q8TAM2}

12418 Pathogen[ P0C206] interacts with 1 human partners:{Q8TAM2}

12419 Pathogen[ P03363] interacts with 1 human partners:{Q8TAM2}

12420 [Cluster 1983]GO:0001957+P biological\_process [name] intramembranous ossification [def] "The formation of bone in which osteoblasts secrete a collagen-proteoglycan matrix that binds calcium salts and becomes calcified. Intramembranous ossification is the way flat bones and the shell of a turtle are formed." [ISBN

12421 Pathogen[ P03346] interacts with 1 human partners:{Q10571}

12422 Pathogen[ P14079] interacts with 1 human partners:{Q10571}

12423 Pathogen[ P03410] interacts with 1 human partners:{Q10571}

12424 Pathogen[ P14075] interacts with 1 human partners:{Q10571}

12425 Pathogen[ P0C206] interacts with 1 human partners:{Q10571}

12426 Pathogen[ P03363] interacts with 1 human partners:{Q10571}

12427 [Cluster 1984]GO:0097359+P

12428 Pathogen[ P14079] interacts with 2 human partners:{Q9NYU1;Q9NYU2}

12429 Pathogen[ P03410] interacts with 2 human partners:{Q9NYU1;Q9NYU2}

12430 [Cluster 1985]GO:0010888+P biological\_process [name] negative regulation of lipid storage [def] "Any process that modulates the rate, frequency or extent of lipid storage. Lipid storage is the accumulation and maintenance in cells or tissues of lipids, compounds soluble in organic solvents but insoluble or sparingly soluble in aqueous solvents. Lipid reserves can be accumulated during early developmental stages for mobilization and utilization at later stages of development." [GOC

12431 Pathogen[ Q2Q067] interacts with 1 human partners:{P25963}

12432 Pathogen[ P0C214] interacts with 1 human partners:{P25963}

12433 Pathogen[ P03346] interacts with 1 human partners:{P25963}

12434 Pathogen[ Q85601] interacts with 1 human partners:{P25963}

12435 Pathogen[ P03383] interacts with 1 human partners:{P25963}

12436 Pathogen[ P03410] interacts with 1 human partners:{P25963}

12437 Pathogen[ P14075] interacts with 1 human partners:{P25963}

12438 Pathogen[ P0C206] interacts with 1 human partners:{P25963}

12439 Pathogen[ P03363] interacts with 1 human partners:{P25963}

12440 [Cluster 1986]GO:0032853+P biological\_process [name] positive regulation of Ran GTPase activity [def] "Any process that activates or increases the activity of a GTPase of the Ran family." [GOC

12441 Pathogen[ P0C214] interacts with 1 human partners:{P46060}

12442 Pathogen[ P03346] interacts with 1 human partners:{P46060}

12443 Pathogen[ Q85601] interacts with 1 human partners:{P46060}

12444 Pathogen[ P14079] interacts with 1 human partners:{P46060}

12445 Pathogen[ P03410] interacts with 1 human partners:{P46060}

12446 Pathogen[ P0C206] interacts with 1 human partners:{P46060}

12447 Pathogen[ P03363] interacts with 1 human partners:{P46060}

12448 [Cluster 1987]GO:0044597+P

12449 Pathogen[ Q2Q067] interacts with 1 human partners:{P15121}

12450 Pathogen[ P0C214] interacts with 1 human partners:{P15121}

12451 Pathogen[ P03346] interacts with 1 human partners:{P15121}

12452 Pathogen[ Q85601] interacts with 1 human partners:{P15121}

12453 Pathogen[ P0C206] interacts with 1 human partners:{P15121}

12454 [Cluster 1988]GO:0060847+P biological\_process [name] endothelial cell fate specification [def] "The process involved in the specification of identity of an endothelial cell. Once specification has taken place, a cell will be committed to differentiate down a specific pathway if left in its normal environment." [GOC

12455 Pathogen[ P03346] interacts with 1 human partners:{P31271}

12456 Pathogen[ Q85601] interacts with 1 human partners:{P31271}

12457 Pathogen[ P14079] interacts with 1 human partners:{P31271}

12458 Pathogen[ P0C206] interacts with 1 human partners:{P31271}

12459 Pathogen[ P03363] interacts with 1 human partners:{P31271}

12460 [Cluster 1989]GO:0045980+P biological\_process [name] negative regulation of nucleotide metabolic process [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the chemical reactions and pathways involving nucleotides." [GOC

12461 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UII2}

12462 Pathogen[ P0C214] interacts with 1 human partners:{Q9UII2}

12463 Pathogen[ P03346] interacts with 1 human partners:{Q9UII2}

12464 Pathogen[ Q85601] interacts with 1 human partners:{Q9UII2}

12465 Pathogen[ P14079] interacts with 1 human partners:{Q9UII2}

12466 Pathogen[ P03383] interacts with 1 human partners:{Q9UII2}

12467 Pathogen[ P03410] interacts with 1 human partners:{Q9UII2}

12468 Pathogen[ P14075] interacts with 1 human partners:{Q9UII2}

12469 Pathogen[ P0C206] interacts with 1 human partners:{Q9UII2}

12470 [Cluster 1990]GO:0007406+P biological\_process [name] negative regulation of neuroblast proliferation [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the proliferation of neuroblasts." [GOC

12471 Pathogen[ P03346] interacts with 1 human partners:{Q693B1}

12472 Pathogen[ P0C206] interacts with 1 human partners:{Q693B1}

12473 Pathogen[ P03363] interacts with 1 human partners:{Q693B1}

12474 [Cluster 1991]GO:0051097+P biological\_process [name] negative regulation of helicase activity [def] "Any process that stops or reduces the activity of a helicase." [GOC

12475 Pathogen[ Q2Q067] interacts with 1 human partners:{P09914}

12476 Pathogen[ P0C214] interacts with 1 human partners:{P09914}

12477 Pathogen[ P03346] interacts with 1 human partners:{P09914}

12478 Pathogen[ Q85601] interacts with 1 human partners:{P09914}

12479 Pathogen[ P14079] interacts with 1 human partners:{P09914}

12480 Pathogen[ P03410] interacts with 1 human partners:{P09914}

12481 Pathogen[ P0C206] interacts with 1 human partners:{P09914}

12482 Pathogen[ P03363] interacts with 1 human partners:{P09914}

12483 [Cluster 1992]GO:0033629+P biological\_process [name] negative regulation of cell adhesion mediated by integrin [def] "Any process that stops, prevents, or reduces the frequency, rate, or extent of cell adhesion mediated by integrin." [GOC

12484 Pathogen[ P0C214] interacts with 1 human partners:{P05121}

12485 Pathogen[ Q85601] interacts with 1 human partners:{P05121}

12486 Pathogen[ P03410] interacts with 1 human partners:{P05121}

12487 Pathogen[ P0C206] interacts with 1 human partners:{P05121}

12488 [Cluster 1993]GO:0048203+P biological\_process [name] vesicle targeting, trans-Golgi to endosome [def] "The process in which vesicles are directed to specific destination membranes during transport from the trans-Golgi to the endosome." [GOC

12489 Pathogen[ P03410] interacts with 1 human partners:{Q5MNZ9}

12490 [Cluster 1994]GO:0031247+P biological\_process [name] actin rod assembly [def] "The assembly of actin rods, a cellular structure consisting of parallel, hexagonally arranged actin tubules." [GOC

12491 Pathogen[ Q2Q067] interacts with 1 human partners:{P14625}

12492 Pathogen[ P0C214] interacts with 2 human partners:{P14625;Q96GD0}

12493 Pathogen[ P03346] interacts with 1 human partners:{P14625}

12494 Pathogen[ Q85601] interacts with 1 human partners:{P14625}

12495 Pathogen[ P14079] interacts with 2 human partners:{Q96GD0;P14625}

12496 Pathogen[ P03383] interacts with 1 human partners:{P14625}

12497 Pathogen[ P03410] interacts with 2 human partners:{P14625;Q96GD0}

12498 Pathogen[ P14075] interacts with 1 human partners:{P14625}

12499 Pathogen[ P0C206] interacts with 2 human partners:{Q96GD0;P14625}

12500 [Cluster 1995]GO:0072305+P biological\_process [name] negative regulation of mesenchymal stem cell apoptosis involved in metanephric nephron morphogenesis [def] "Any process that reduces the occurrence or rate of mesenchymal stem cell death by apoptosis that contributes to the shaping of the nephron in the metanephros." [GOC

12501 Pathogen[ P03346] interacts with 1 human partners:{Q06710}

12502 [Cluster 1996]GO:0045639+P biological\_process [name] positive regulation of myeloid

cell differentiation [def] "Any process that activates or increases the frequency, rate or extent of myeloid cell differentiation." [GOC

12503 Pathogen[ Q2Q067] interacts with 1 human partners:{P20719}

12504 Pathogen[ P03346] interacts with 1 human partners:{P20719}

12505 Pathogen[ P0C206] interacts with 1 human partners:{P20719}

12506 Pathogen[ P03363] interacts with 1 human partners:{P20719}

12507 [Cluster 1997]GO:0071625+P biological\_process [name] vocalization behavior [def] "The behavior in which an organism produces sounds by a mechanism involving its respiratory system." [GOC

12508 Pathogen[ Q2Q067] interacts with 1 human partners:{P78352}

12509 Pathogen[ P0C214] interacts with 1 human partners:{P78352}

12510 Pathogen[ P03346] interacts with 1 human partners:{P78352}

12511 Pathogen[ Q85601] interacts with 1 human partners:{P78352}

12512 Pathogen[ P03383] interacts with 1 human partners:{P78352}

12513 Pathogen[ P03410] interacts with 1 human partners:{P78352}

12514 Pathogen[ P14075] interacts with 1 human partners:{P78352}

12515 Pathogen[ P0C206] interacts with 1 human partners:{P78352}

12516 Pathogen[ P03363] interacts with 1 human partners:{P78352}

12517 [Cluster 1998]GO:0042738+P biological\_process [name] exogenous drug catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of a drug that has originated externally to the cell or organism." [GOC

12518 Pathogen[ P03346] interacts with 1 human partners:{O75469}

12519 Pathogen[ P14079] interacts with 1 human partners:{O75469}

12520 Pathogen[ P0C206] interacts with 1 human partners:{O75469}

12521 [Cluster 1999]GO:0042694+P biological\_process [name] muscle cell fate specification [def] "The process in which a cell becomes capable of differentiating autonomously into a muscle cell in an environment that is neutral with respect to the developmental pathway\_ upon specification, the cell fate can be reversed." [CL

12522 Pathogen[ P03346] interacts with 1 human partners:{P10916}

12523 Pathogen[ P14079] interacts with 1 human partners:{P10916}

12524 Pathogen[ P03410] interacts with 1 human partners:{P10916}

12525 Pathogen[ P03363] interacts with 1 human partners:{P10916}

12526 [Cluster 2000]GO:0034477+P biological\_process [name] U6 snRNA 3'-end processing [def] "Any process involved in forming the mature 3' end of a U6 snRNA molecule." [GOC

12527 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BQ65}

12528 Pathogen[ P0C214] interacts with 1 human partners:{Q9BQ65}

12529 Pathogen[ P03346] interacts with 1 human partners:{Q9BQ65}

12530 Pathogen[ P14079] interacts with 1 human partners:{Q9BQ65}

12531 Pathogen[ P03383] interacts with 1 human partners:{Q9BQ65}

12532 Pathogen[ P03410] interacts with 1 human partners:{Q9BQ65}

12533 Pathogen[ P14075] interacts with 1 human partners:{Q9BQ65}

12534 Pathogen[ P0C206] interacts with 1 human partners:{Q9BQ65}

12535 Pathogen[ P03363] interacts with 1 human partners:{Q9BQ65}

12536 [Cluster 2001]GO:0007007+P biological\_process [name] inner mitochondrial membrane organization [def] "A process that is carried out at the cellular level which results in the assembly, arrangement of constituent parts, or disassembly of the mitochondrial inner membrane." [GOC

12537 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NX63}

12538 Pathogen[ P0C214] interacts with 1 human partners:{Q9NX63}

12539 Pathogen[ P03346] interacts with 1 human partners:{Q9NX63}

12540 Pathogen[ Q85601] interacts with 1 human partners:{Q9NX63}

12541 Pathogen[ P03383] interacts with 1 human partners:{Q9NX63}

12542 Pathogen[ P03410] interacts with 1 human partners:{Q9NX63}

12543 Pathogen[ P14075] interacts with 1 human partners:{Q9NX63}

12544 Pathogen[ P0C206] interacts with 1 human partners:{Q9NX63}

12545 Pathogen[ P03363] interacts with 1 human partners:{Q9NX63}

12546 [Cluster 2002]GO:0032696+P biological\_process [name] negative regulation of interleukin-13 production [def] "Any process that stops, prevents, or reduces the frequency, rate, or extent of interleukin-13 production." [GOC

12547 Pathogen[ P14079] interacts with 1 human partners:{Q8IU54}

12548 [Cluster 2003]GO:0051495+P biological\_process [name] positive regulation of cytoskeleton organization [def] "Any process that activates or increases the frequency, rate or extent of the formation, arrangement of constituent parts, or disassembly of cytoskeletal structures." [GOC

12549 Pathogen[ Q2Q067] interacts with 1 human partners:{O60504}

12550 Pathogen[ P0C214] interacts with 1 human partners:{O60504}

12551 Pathogen[ P03346] interacts with 1 human partners:{O60504}

12552 Pathogen[ Q85601] interacts with 1 human partners:{O60504}

12553 Pathogen[ P14079] interacts with 1 human partners:{O60504}

12554 Pathogen[ P03383] interacts with 1 human partners:{O60504}

12555 Pathogen[ P03410] interacts with 1 human partners:{O60504}

12556 Pathogen[ P14075] interacts with 1 human partners:{O60504}

12557 Pathogen[ P0C206] interacts with 1 human partners:{O60504}

12558 [Cluster 2004]GO:0046661+P biological\_process [name] male sex differentiation [def] "The establishment of the sex of a male organism by physical differentiation." [GOC

12559 Pathogen[ P03346] interacts with 1 human partners:{Q9Y5R6}

12560 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y5R6}

12561 Pathogen[ P03363] interacts with 1 human partners:{Q9Y5R6}

12562 [Cluster 2005]GO:0006557+P biological\_process [name] S-adenosylmethioninamine biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of S-adenosylmethioninamine, (5-deoxy-5-adenosyl)(3-aminopropyl)methylsulfonium salt." [GOC]

12563 Pathogen[ P14079] interacts with 1 human partners:{P17707}

12564 Pathogen[ P03410] interacts with 1 human partners:{P17707}

12565 [Cluster 2006]GO:0070562+P biological\_process [name] regulation of vitamin D receptor signaling pathway [def] "Any process that modulates the frequency, rate or extent of vitamin D receptor signaling pathway activity." [GOC]

12566 Pathogen[ Q2Q067] interacts with 1 human partners:{O15164}

12567 Pathogen[ P0C214] interacts with 1 human partners:{O15164}

12568 Pathogen[ P03346] interacts with 1 human partners:{O15164}

12569 Pathogen[ Q85601] interacts with 1 human partners:{O15164}

12570 Pathogen[ P14079] interacts with 1 human partners:{O15164}

12571 Pathogen[ P0C206] interacts with 1 human partners:{O15164}

12572 [Cluster 2007]GO:0045687+P biological\_process [name] positive regulation of glial cell differentiation [def] "Any process that activates or increases the frequency, rate or extent of glia cell differentiation." [GOC]

12573 Pathogen[ P03346] interacts with 1 human partners:{P78426}

12574 Pathogen[ P03363] interacts with 1 human partners:{Q9C056}

12575 [Cluster 2008]GO:2000299+P biological\_process [name] negative regulation of Rho-dependent protein serine/threonine kinase activity [def] "Any process that stops, prevents or reduces the frequency, rate or extent of Rho-dependent protein serine/threonine kinase activity." [GOC]

12576 Pathogen[ P03346] interacts with 1 human partners:{Q9UHD1}

12577 Pathogen[ Q85601] interacts with 1 human partners:{Q9UHD1}

12578 Pathogen[ P14079] interacts with 1 human partners:{Q9UHD1}

12579 Pathogen[ P03410] interacts with 1 human partners:{Q9UHD1}

12580 Pathogen[ P0C206] interacts with 1 human partners:{Q9UHD1}

12581 [Cluster 2009]GO:0055009+P biological\_process [name] atrial cardiac muscle tissue morphogenesis [def] "The process in which the anatomical structure of cardiac atrium muscle is generated and organized." [GOC]

12582 Pathogen[ P0C214] interacts with 1 human partners:{P13533}

12583 Pathogen[ Q85601] interacts with 1 human partners:{P13533}

12584 Pathogen[ P03410] interacts with 1 human partners:{P13533}

12585 Pathogen[ P0C206] interacts with 1 human partners:{P13533}

12586 [Cluster 2010]GO:0042531+P biological\_process [name] positive regulation of tyrosine phosphorylation of STAT protein [def] "Any process that activates or increases the frequency, rate or extent of the introduction of a phosphate group to a tyrosine residue of a STAT (Signal Transducer and Activator of Transcription) protein." [GOC]

12587 Pathogen[ P03346] interacts with 1 human partners:{P14317}

12588 Pathogen[ Q85601] interacts with 1 human partners:{P14317}

12589 Pathogen[ P14079] interacts with 1 human partners:{Q8IU54}

12590 Pathogen[ P0C206] interacts with 1 human partners:{P14317}

12591 Pathogen[ P03363] interacts with 1 human partners:{P14317}

12592 [Cluster 2011]GO:0018012+P biological\_process [name] N-terminal peptidyl-alanine trimethylation [def] "The trimethylation of the N-terminal alanine of proteins to form the derivative peptidyl-N,N,N-trimethyl-L-alanine." [RESID]

12593 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BV86}

12594 Pathogen[ P0C214] interacts with 1 human partners:{Q9BV86}

12595 Pathogen[ P03346] interacts with 1 human partners:{Q9BV86}

12596 Pathogen[ Q85601] interacts with 1 human partners:{Q9BV86}

12597 Pathogen[ P14079] interacts with 1 human partners:{Q9BV86}

12598 Pathogen[ P03410] interacts with 1 human partners:{Q9BV86}

12599 Pathogen[ P0C206] interacts with 1 human partners:{Q9BV86}

12600 Pathogen[ P03363] interacts with 1 human partners:{Q9BV86}

12601 [Cluster 2012]GO:0051306+P biological\_process [name] mitotic sister chromatid separation [def] "The process in which sister chromatids are physically detached from each other during mitosis." [GOC]

12602 Pathogen[ P0C214] interacts with 1 human partners:{Q8IYB7}

12603 Pathogen[ P03346] interacts with 1 human partners:{Q8IYB7}

12604 Pathogen[ Q85601] interacts with 1 human partners:{Q8IYB7}

12605 Pathogen[ P14079] interacts with 1 human partners:{Q8IYB7}

12606 Pathogen[ P03410] interacts with 1 human partners:{Q8IYB7}

12607 Pathogen[ P0C206] interacts with 1 human partners:{Q8IYB7}

12608 Pathogen[ P03363] interacts with 1 human partners:{Q8IYB7}

12609 [Cluster 2013]GO:0048822+P biological\_process [name] enucleate erythrocyte development [def] "The process aimed at the progression of an enucleate erythrocyte over time, from initial commitment of the cell to a specific fate, to the fully functional differentiated cell." [GOC]

12610 Pathogen[ P0C214] interacts with 1 human partners:{Q7L5Y9}

12611 Pathogen[ Q85601] interacts with 1 human partners:{Q7L5Y9}

12612 Pathogen[ P14079] interacts with 1 human partners:{Q7L5Y9}

12613 Pathogen[ P03410] interacts with 1 human partners:{Q7L5Y9}

12614 Pathogen[ P14075] interacts with 1 human partners:{Q7L5Y9}

12615 Pathogen[ P0C206] interacts with 1 human partners:{Q7L5Y9}

12616 [Cluster 2014]GO:0007603+P biological\_process [name] phototransduction, visible light [def] "The sequence of reactions within a cell required to convert absorbed photons from visible light into a molecular signal. A visible light stimulus is electromagnetic radiation that can be perceived visually by an organism\_ for organisms lacking a visual system, this can be defined as light with a wavelength within the range 380 to 780 nm." [GOC

12617 Pathogen[ P14079] interacts with 1 human partners:{P56715}

12618 Pathogen[ P03410] interacts with 1 human partners:{P56715}

12619 Pathogen[ P0C206] interacts with 1 human partners:{P56715}

12620 Pathogen[ P03363] interacts with 2 human partners:{P56715;Q9NZN9}

12621 [Cluster 2015]GO:0021853+P biological\_process [name] cerebral cortex GABAergic interneuron migration [def] "The migration of GABAergic interneuron precursors from the subpallium to the cerebral cortex." [GO\_REF

12622 Pathogen[ P03346] interacts with 1 human partners:{Q96QS3}

12623 Pathogen[ P03363] interacts with 1 human partners:{Q96QS3}

12624 [Cluster 2016]GO:0009650+P biological\_process [name] UV protection [def] "Any process in which an organism or cell protects itself from ultraviolet radiation (UV), which may also result in resistance to repeated exposure to UV." [GOC

12625 Pathogen[ Q2Q067] interacts with 3 human partners:{Q92889;P39748;P28715}

12626 Pathogen[ P0C214] interacts with 3 human partners:{Q92889;P28715;P39748}

12627 Pathogen[ P03346] interacts with 4 human partners:{P28715;P07992;Q92889;P39748}

12628 Pathogen[ Q85601] interacts with 4 human partners:{Q92889;P28715;P39748;P19447}

12629 Pathogen[ P14079] interacts with 6 human partners:{P28715;Q92889;P07992;P19447;Q6AZY7;P39748}

12630 Pathogen[ P03410] interacts with 7 human partners:{P07992;Q92889;P39748;P28715;P19447;Q6AZY7;Q9BRK5}

12631 Pathogen[ P0C206] interacts with 5 human partners:{P28715;P07992;P19447;Q92889;P39748}

12632 Pathogen[ P03363] interacts with 1 human partners:{Q92889}

12633 [Cluster 2017]GO:0045745+P biological\_process [name] positive regulation of G-protein coupled receptor protein signaling pathway [def] "Any process that activates or increases the frequency, rate or extent of G-protein coupled receptor protein signaling pathway activity." [GOC

12634 Pathogen[ P0C214] interacts with 2 human partners:{P18545;Q13956}

12635 Pathogen[ P14079] interacts with 2 human partners:{P18545;Q13956}

12636 Pathogen[ P03410] interacts with 2 human partners:{Q13956;P18545}

12637 Pathogen[ P0C206] interacts with 2 human partners:{P18545;Q13956}

12638 Pathogen[ P03363] interacts with 1 human partners:{Q9NZR1}

12639 [Cluster 2018]GO:0003402+P biological\_process [name] planar cell polarity pathway involved in axis elongation [def] "The series of molecular signals initiated by binding of a Wnt protein to a receptor on the surface of the target cell where activated receptors signal to modulate cytoskeletal elements and control cell polarity that contributes to axis elongation." [GOC

12640 Pathogen[ Q2Q067] interacts with 1 human partners:{Q86UL8}

12641 Pathogen[ P03346] interacts with 1 human partners:{Q86UL8}

12642 Pathogen[ Q85601] interacts with 1 human partners:{Q86UL8}

12643 Pathogen[ P14079] interacts with 1 human partners:{Q86UL8}

12644 Pathogen[ P03410] interacts with 1 human partners:{Q86UL8}

12645 Pathogen[ P0C206] interacts with 1 human partners:{Q86UL8}

12646 Pathogen[ P03363] interacts with 1 human partners:{Q86UL8}

12647 [Cluster 2019]GO:0007136+P biological\_process [name] meiotic prophase II [def] "Prophase occurring as part of meiosis II. Prophase is the part of nuclear division in which, canonically, chromosomes condense and the two daughter centrioles and their asters migrate toward the poles of the cell. Meiosis II is the second phase of meiosis, in which cells divide and separate the two chromatids in each chromosome." [GOC

12648 Pathogen[ P14079] interacts with 1 human partners:{O43196}

12649 Pathogen[ P03410] interacts with 1 human partners:{O43196}

12650 [Cluster 2020]GO:0050830+P biological\_process [name] defense response to Gram-positive bacterium [def] "Reactions triggered in response to the presence of a Gram-positive bacterium that act to protect the cell or organism." [GOC

12651 Pathogen[ P14079] interacts with 3 human partners:{P29459;Q9Y239;Q99836}

12652 Pathogen[ P03410] interacts with 2 human partners:{Q9Y239;P29459}

12653 [Cluster 2021]GO:1900758+P

12654 Pathogen[ P03346] interacts with 1 human partners:{P59103}

12655 Pathogen[ P14079] interacts with 1 human partners:{P59103}

12656 Pathogen[ P03410] interacts with 1 human partners:{P59103}

12657 Pathogen[ P14075] interacts with 1 human partners:{P59103}

12658 Pathogen[ P0C206] interacts with 1 human partners:{P59103}

12659 [Cluster 2022]GO:0061044+P biological\_process [name] negative regulation of vascular wound healing [def] "Any process that decreases the rate, frequency, or extent of blood vessel formation when new vessels emerge from the proliferation of pre-existing blood vessels and contribute to the series of events that restore integrity to damaged vasculature." [GOC

12660 Pathogen[ P0C214] interacts with 1 human partners:{P05121}

12661 Pathogen[ Q85601] interacts with 1 human partners:{P05121}

12662 Pathogen[ P03410] interacts with 1 human partners:{P05121}

12663 Pathogen[ P0C206] interacts with 1 human partners:{P05121}

12664 [Cluster 2023]GO:0055078+P biological\_process [name] sodium ion homeostasis [def] "Any process involved in the maintenance of an internal steady state of sodium ions within an organism or cell." [GOC]

12665 Pathogen[ P03346] interacts with 1 human partners:{Q92481}

12666 [Cluster 2024]GO:0060055+P biological\_process [name] angiogenesis involved in wound healing [def] "Blood vessel formation when new vessels emerge from the proliferation of pre-existing blood vessels and contribute to the series of events that restore integrity to a damaged tissue, following an injury." [GOC]

12667 Pathogen[ Q2Q067] interacts with 2 human partners:{P14921;P11831}

12668 Pathogen[ P0C214] interacts with 2 human partners:{P14921;P11831}

12669 Pathogen[ P03346] interacts with 2 human partners:{P11831;P14921}

12670 Pathogen[ Q85601] interacts with 2 human partners:{P11831;P14921}

12671 Pathogen[ P03383] interacts with 2 human partners:{P11831;P14921}

12672 Pathogen[ P03410] interacts with 2 human partners:{P11831;P14921}

12673 Pathogen[ P14075] interacts with 2 human partners:{P11831;P14921}

12674 Pathogen[ P0C206] interacts with 2 human partners:{P14921;P11831}

12675 Pathogen[ P03363] interacts with 2 human partners:{P14921;P11831}

12676 [Cluster 2025]GO:0010616+P biological\_process [name] negative regulation of cardiac muscle adaptation [def] "Any process that decreases the rate, extent or frequency of the process in which cardiac muscle adapts, with consequent modifications to structural and/or functional phenotypes, in response to a stimulus. Stimuli include contractile activity, loading conditions, substrate supply, and environmental factors." [GOC]

12677 Pathogen[ P14079] interacts with 1 human partners:{O60502}

12678 Pathogen[ P03410] interacts with 1 human partners:{O60502}

12679 [Cluster 2026]GO:0003199+P biological\_process [name] endocardial cushion to mesenchymal transition involved in heart valve formation [def] "A transition where an endocardial cushion cell loses apical/basolateral polarity, severs intercellular adhesive junctions, degrades basement membrane components and becomes a migratory mesenchymal cell that will contribute to the formation of a cardiac valve." [GOC]

12680 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9Y5J3}

12681 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y5J3}

12682 Pathogen[ P03346] interacts with 1 human partners:{Q9Y5J3}

12683 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y5J3}

12684 Pathogen[ P14079] interacts with 1 human partners:{Q9Y5J3}

12685 Pathogen[ P03410] interacts with 1 human partners:{Q9Y5J3}

12686 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y5J3}

12687 Pathogen[ P03363] interacts with 1 human partners:{Q9Y5J3}

12688 [Cluster 2027]GO:0002176+P biological\_process [name] male germ cell proliferation [def] "The multiplication or reproduction of male germ cells, resulting in the expansion of a cell population." [GOC]

12689 Pathogen[ P03346] interacts with 1 human partners:{Q9Y5R6}

12690 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y5R6}

12691 Pathogen[ P03363] interacts with 1 human partners:{Q9Y5R6}

12692 [Cluster 2028]GO:0006041+P biological\_process [name] glucosamine metabolic process [def] "The chemical reactions and pathways involving glucosamine (2-amino-2-deoxyglucopyranose), an aminodeoxysugar that occurs in combined form in chitin." [GOC]

12693 Pathogen[ Q2Q067] interacts with 1 human partners:{O95394}

12694 Pathogen[ P0C214] interacts with 2 human partners:{O95394;Q96EK6}

12695 Pathogen[ P03346] interacts with 1 human partners:{O95394}

12696 Pathogen[ Q85601] interacts with 2 human partners:{Q96EK6;O95394}

12697 Pathogen[ P14079] interacts with 2 human partners:{O95394;Q96EK6}

12698 Pathogen[ P03383] interacts with 1 human partners:{O95394}

12699 Pathogen[ P03410] interacts with 2 human partners:{Q96EK6;O95394}

12700 Pathogen[ P14075] interacts with 2 human partners:{O95394;Q96EK6}

12701 Pathogen[ P0C206] interacts with 2 human partners:{O95394;Q96EK6}

12702 [Cluster 2029]GO:0051482+P biological\_process [name] elevation of cytosolic calcium ion concentration involved in G-protein signaling coupled to IP3 second messenger [def] "Any process that increases the concentration of calcium ions in the cytosol that contributes to the process of G-protein signaling coupled to IP3 second messenger." [GOC]

12703 Pathogen[ Q2Q067] interacts with 1 human partners:{P21980}

12704 Pathogen[ P0C214] interacts with 1 human partners:{P21980}

12705 Pathogen[ P03346] interacts with 1 human partners:{P21980}

12706 Pathogen[ Q85601] interacts with 1 human partners:{P21980}

12707 Pathogen[ P14079] interacts with 1 human partners:{P21980}

12708 Pathogen[ P03383] interacts with 1 human partners:{P21980}

12709 Pathogen[ P03410] interacts with 1 human partners:{P21980}

12710 Pathogen[ P14075] interacts with 1 human partners:{P21980}

12711 Pathogen[ P0C206] interacts with 1 human partners:{P21980}

12712 [Cluster 2030]GO:0046883+P biological\_process [name] regulation of hormone secretion [def] "Any process that modulates the frequency, rate or extent of the regulated release of a hormone from a cell or group of cells." [GOC]

12713 Pathogen[ Q2Q067] interacts with 1 human partners:{P20823}

12714 Pathogen[ P03346] interacts with 1 human partners:{P20823}

12715 Pathogen[ Q85601] interacts with 1 human partners:{P20823}

12716 Pathogen[ P14079] interacts with 1 human partners:{P05408}

12717 Pathogen[ P03410] interacts with 1 human partners:{P05408}

12718 Pathogen[ P0C206] interacts with 1 human partners:{P20823}

12719 [Cluster 2031]GO:0072307+P biological\_process [name] regulation of metanephric nephron tubule epithelial cell differentiation [def] "Any process that modulates the frequency, rate or extent of metanephric nephron tubule epithelial cell differentiation." [GOC

12720 Pathogen[ P03346] interacts with 1 human partners:{Q06710}

12721 [Cluster 2032]GO:0006726+P biological\_process [name] eye pigment biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of eye pigments, any general or particular coloring matter in living organisms, found or utilized in the eye." [GOC

12722 Pathogen[ P03346] interacts with 1 human partners:{O14617}

12723 Pathogen[ P14079] interacts with 1 human partners:{O14617}

12724 Pathogen[ P03410] interacts with 1 human partners:{O14617}

12725 Pathogen[ P0C206] interacts with 1 human partners:{O14617}

12726 [Cluster 2033]GO:0000921+P biological\_process [name] septin ring assembly [def] "The aggregation, arrangement and bonding together of septins and associated proteins to form an organized structure resembling a ring at the cell cortex." [GOC

12727 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NQW6}

12728 Pathogen[ P03346] interacts with 1 human partners:{Q9NQW6}

12729 Pathogen[ Q85601] interacts with 1 human partners:{Q9NQW6}

12730 Pathogen[ P14079] interacts with 1 human partners:{Q9NQW6}

12731 Pathogen[ P03410] interacts with 1 human partners:{Q9NQW6}

12732 Pathogen[ P0C206] interacts with 1 human partners:{Q9NQW6}

12733 Pathogen[ P03363] interacts with 1 human partners:{Q9NQW6}

12734 [Cluster 2034]GO:0001656+P biological\_process [name] metanephros development [def] "The process whose specific outcome is the progression of the metanephros over time, from its formation to the mature structure. In mammals, the metanephros is the excretory organ of the fetus, which develops into the mature kidney and is formed from the rear portion of the nephrogenic cord. The metanephros is an endocrine and metabolic organ that filters the blood and excretes the end products of body metabolism in the form of urine." [GOC

12735 Pathogen[ Q2Q067] interacts with 4 human partners:{Q99502;Q63HK5;O43248;Q99966}

12736 Pathogen[ P0C214] interacts with 4 human partners:{Q63HK5;O43248;Q99966;Q99502}

12737 Pathogen[ P03346] interacts with 10 human partners:{Q9NPC8;Q99966;P78415;Q02535;P31270;Q63HK5;Q99502;Q06710;Q9BZI1;O43248}

12738 Pathogen[ Q85601] interacts with 4 human partners:{O43248;Q99966;Q99502;Q63HK5}

12739 Pathogen[ P14079] interacts with 3 human partners:{Q99502;Q99966;Q63HK5}

12740 Pathogen[ P03410] interacts with 4 human partners:{Q9BZI1;Q99502;Q63HK5;Q99966}

12741 Pathogen[ P14075] interacts with 1 human partners:{Q99502}

12742 Pathogen[ P0C206] interacts with 5 human partners:{Q63HK5;O43248;Q9BZI1;Q99966;Q99502}

12743 Pathogen[ P03363] interacts with 5 human partners:{P78415;O43248;Q63HK5;Q9BZI1;Q9NPC8}

12744 [Cluster 2035]GO:0046477+P biological\_process [name] glycosylceramide catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of glycosylceramides, any compound formed by the replacement of the glycosidic hydroxyl group of a cyclic form of a monosaccharide (or derivative) by a ceramide group." [GOC

12745 Pathogen[ P0C214] interacts with 1 human partners:{Q9H227}

12746 Pathogen[ P14079] interacts with 2 human partners:{P06280;P17050}

12747 [Cluster 2036]GO:0021591+P biological\_process [name] ventricular system development [def] "The process whose specific outcome is the progression of the brain ventricular system over time, from its formation to the mature structure. The brain ventricular system consists of four communicating cavities within the brain that are continuous with the central canal of the spinal cord. These cavities include two lateral ventricles, the third ventricle and the fourth ventricle. Cerebrospinal fluid fills the ventricles and is produced by the choroid plexus." [GO\_REF

12748 Pathogen[ Q2Q067] interacts with 1 human partners:{P51948}

12749 Pathogen[ P0C214] interacts with 1 human partners:{P51948}

12750 Pathogen[ P03346] interacts with 1 human partners:{P51948}

12751 Pathogen[ Q85601] interacts with 1 human partners:{P51948}

12752 Pathogen[ P14079] interacts with 1 human partners:{P51948}

12753 Pathogen[ P03383] interacts with 1 human partners:{P51948}

12754 Pathogen[ P03410] interacts with 1 human partners:{P51948}

12755 Pathogen[ P14075] interacts with 1 human partners:{P51948}

12756 Pathogen[ P0C206] interacts with 1 human partners:{P51948}

12757 [Cluster 2037]GO:0060580+P biological\_process [name] ventral spinal cord interneuron fate determination [def] "The process in which a cell becomes capable of differentiating autonomously into a ventral spinal cord interneuron regardless of its environment\_ upon determination, the cell fate cannot be reversed. Ventral spinal cord interneurons are cells located in the ventral portion of the spinal cord that transmit signals between sensory and motor neurons and are required for reflexive responses." [GOC

12758 Pathogen[ P03346] interacts with 1 human partners:{O95096}



12759 [Cluster 2038]GO:0061108+P biological\_process [name] seminal vesicle epithelium development [def] "The progression of the seminal vesicle epithelium over time, from its formation to the mature structure." [GOC

12760 Pathogen[ POC214] interacts with 1 human partners:{P07093}

12761 Pathogen[ Q85601] interacts with 1 human partners:{P07093}

12762 [Cluster 2039]GO:1900222+P

12763 Pathogen[ Q2Q067] interacts with 1 human partners:{P11831}

12764 Pathogen[ POC214] interacts with 1 human partners:{P11831}

12765 Pathogen[ P03346] interacts with 1 human partners:{P11831}

12766 Pathogen[ Q85601] interacts with 1 human partners:{P11831}

12767 Pathogen[ P03383] interacts with 1 human partners:{P11831}

12768 Pathogen[ P03410] interacts with 1 human partners:{P11831}

12769 Pathogen[ P14075] interacts with 1 human partners:{P11831}

12770 Pathogen[ POC206] interacts with 1 human partners:{P11831}

12771 Pathogen[ P03363] interacts with 1 human partners:{P11831}

12772 [Cluster 2040]GO:0008105+P biological\_process [name] asymmetric protein localization [def] "Any process in which a protein is transported to, or maintained in, a specific location such that it is distributed asymmetrically." [GOC

12773 Pathogen[ Q2Q067] interacts with 1 human partners:{Q14160}

12774 Pathogen[ POC214] interacts with 1 human partners:{Q14160}

12775 Pathogen[ P03346] interacts with 2 human partners:{Q9Y215;Q14160}

12776 Pathogen[ Q85601] interacts with 1 human partners:{Q14160}

12777 Pathogen[ P03383] interacts with 1 human partners:{Q14160}

12778 Pathogen[ P03410] interacts with 2 human partners:{Q14160;Q9Y215}

12779 Pathogen[ P14075] interacts with 1 human partners:{Q14160}

12780 Pathogen[ POC206] interacts with 1 human partners:{Q14160}

12781 Pathogen[ P03363] interacts with 2 human partners:{Q14160;Q9Y215}

12782 [Cluster 2041]GO:0021759+P biological\_process [name] globus pallidus development [def] "The progression of the globus pallidus over time from its initial formation until its mature state. The globus pallidus is one of the basal ganglia involved with control of voluntary movement in the brain." [GO\_REF

12783 Pathogen[ P03346] interacts with 1 human partners:{Q96QS3}

12784 Pathogen[ P03363] interacts with 1 human partners:{Q96QS3}

12785 [Cluster 2042]GO:0002830+P biological\_process [name] positive regulation of type 2 immune response [def] "Any process that activates or increases the frequency, rate, or extent of a type 2 immune response." [GOC

12786 Pathogen[ P14079] interacts with 1 human partners:{O95760}

12787 Pathogen[ P03410] interacts with 1 human partners:{O95760}

12788 [Cluster 2043]GO:0033598+P biological\_process [name] mammary gland epithelial cell proliferation [def] "The multiplication or reproduction of mammary gland epithelial cells, resulting in the expansion of a cell population. Mammary gland epithelial cells make up the covering of surfaces of the mammary gland. The mammary gland is a large compound sebaceous gland that in female mammals is modified to secrete milk." [GOC

12789 Pathogen[ Q2Q067] interacts with 4 human partners:{P24385;P17676;Q9Y297;O15111}

12790 Pathogen[ POC214] interacts with 4 human partners:{O15111;P24385;Q9Y297;P17676}

12791 Pathogen[ P03346] interacts with 4 human partners:{O15111;P24385;P17676;Q9Y297}

12792 Pathogen[ Q85601] interacts with 3 human partners:{P17676;P24385;O15111}

12793 Pathogen[ P03383] interacts with 3 human partners:{O15111;P24385;P17676}

12794 Pathogen[ P03410] interacts with 3 human partners:{P17676;O15111;P24385}

12795 Pathogen[ P14075] interacts with 3 human partners:{O15111;P24385;P17676}

12796 Pathogen[ POC206] interacts with 3 human partners:{P17676;O15111;P24385}

12797 Pathogen[ P03363] interacts with 3 human partners:{P17676;O15111;P24385}

12798 [Cluster 2044]GO:0072195+P biological\_process [name] kidney smooth muscle cell differentiation [def] "The process in which a relatively unspecialized cell acquires specialized features of a smooth muscle cell in the kidney." [GOC

12799 Pathogen[ Q2Q067] interacts with 1 human partners:{Q63HK5}

12800 Pathogen[ POC214] interacts with 1 human partners:{Q63HK5}

12801 Pathogen[ P03346] interacts with 1 human partners:{Q63HK5}

12802 Pathogen[ Q85601] interacts with 1 human partners:{Q63HK5}

12803 Pathogen[ P14079] interacts with 1 human partners:{Q63HK5}

12804 Pathogen[ P03410] interacts with 1 human partners:{Q63HK5}

12805 Pathogen[ POC206] interacts with 1 human partners:{Q63HK5}

12806 Pathogen[ P03363] interacts with 1 human partners:{Q63HK5}

12807 [Cluster 2045]GO:2001014+P biological\_process [name] regulation of skeletal muscle cell differentiation [def] "Any process that modulates the frequency, rate or extent of skeletal muscle cell differentiation." [GOC

12808 Pathogen[ Q2Q067] interacts with 1 human partners:{Q92841}

12809 Pathogen[ POC214] interacts with 1 human partners:{Q92841}

12810 Pathogen[ P03346] interacts with 1 human partners:{Q92841}

12811 Pathogen[ P03383] interacts with 1 human partners:{Q92841}

12812 Pathogen[ P14075] interacts with 1 human partners:{Q92841}

12813 Pathogen[ POC206] interacts with 1 human partners:{Q92841}

12814 Pathogen[ P03363] interacts with 1 human partners:{Q92841}

12815 [Cluster 2046]GO:0032497+P biological\_process [name] detection of lipopolysaccharide [def] "The series of events in which a lipopolysaccharide stimulus is received by a cell and converted into a molecular signal. Lipopolysaccharide is a major component of the

cell wall of gram-negative bacteria." [GOC  
12816 Pathogen[ P14079] interacts with 1 human partners:{Q9Y6Y9}  
12817 Pathogen[ P03410] interacts with 1 human partners:{Q9Y6Y9}  
12818 [Cluster 2047]GO:0033344+P biological\_process [name] cholesterol efflux [def] "The directed movement of cholesterol, cholest-5-en-3-beta-ol, out of a cell or organelle." [GOC  
12819 Pathogen[ P03346] interacts with 1 human partners:{Q86Y82}  
12820 [Cluster 2048]GO:0045197+P biological\_process [name] establishment or maintenance of epithelial cell apical/basal polarity [def] "Any cellular process that results in the specification, formation or maintenance of the apicobasal polarity of an epithelial cell." [GOC  
12821 Pathogen[ P03346] interacts with 3 human partners:{Q96RT1;Q99626;Q7Z3G6}  
12822 Pathogen[ Q85601] interacts with 1 human partners:{Q96RT1}  
12823 Pathogen[ P14079] interacts with 2 human partners:{Q96RT1;Q7Z3G6}  
12824 Pathogen[ P03410] interacts with 1 human partners:{Q96RT1}  
12825 Pathogen[ P0C206] interacts with 2 human partners:{Q96RT1;Q7Z3G6}  
12826 Pathogen[ P03363] interacts with 2 human partners:{Q96RT1;Q99626}  
12827 [Cluster 2049]GO:0021548+P biological\_process [name] pons development [def] "The process whose specific outcome is the progression of the pons over time, from its formation to the mature structure. The pons lies above the medulla and next to the cerebellum. The pons conveys information about movement from the cerebral hemisphere to the cerebellum." [GO\_REF  
12828 Pathogen[ P14079] interacts with 1 human partners:{O14949}  
12829 Pathogen[ P03410] interacts with 1 human partners:{O14949}  
12830 [Cluster 2050]GO:0043686+P biological\_process [name] co-translational protein modification [def] "The process of covalently altering one or more amino acids in a protein after translation has begun but before the protein has been released from the ribosome." [GOC  
12831 Pathogen[ P14079] interacts with 1 human partners:{P46977}  
12832 [Cluster 2051]GO:0007525+P biological\_process [name] somatic muscle development [def] "The process whose specific outcome is the progression of the somatic muscle over time, from its formation to the mature structure. Somatic muscles are striated muscle structures that connect to the exoskeleton or cuticle." [GOC  
12833 Pathogen[ P03346] interacts with 2 human partners:{Q969G9;Q06190}  
12834 Pathogen[ P14079] interacts with 2 human partners:{Q9NRT5;Q06190}  
12835 Pathogen[ P03410] interacts with 3 human partners:{Q06190;Q969G9;Q9NRT5}  
12836 Pathogen[ P14075] interacts with 1 human partners:{Q9NRT5}  
12837 Pathogen[ P0C206] interacts with 3 human partners:{Q06190;Q969G9;Q9NRT5}  
12838 Pathogen[ P03363] interacts with 2 human partners:{Q06190;Q969G9}  
12839 [Cluster 2052]GO:0035269+P biological\_process [name] protein O-linked mannosylation [def] "The transfer of mannose from dolichyl activated mannose to the hydroxyl group of a seryl or threonyl residue of a protein acceptor molecule, to form an O-linked protein-sugar linkage." [GOC  
12840 Pathogen[ P14079] interacts with 2 human partners:{O94777;Q9P2X0}  
12841 Pathogen[ P03410] interacts with 2 human partners:{O94777;Q9P2X0}  
12842 Pathogen[ P14075] interacts with 1 human partners:{O94777}  
12843 Pathogen[ P0C206] interacts with 1 human partners:{O94777}  
12844 [Cluster 2053]GO:2000188+P biological\_process [name] regulation of cholesterol homeostasis [def] "Any process that modulates the frequency, rate or extent of cholesterol homeostasis." [GOC  
12845 Pathogen[ P03346] interacts with 1 human partners:{Q12772}  
12846 Pathogen[ Q85601] interacts with 1 human partners:{Q12772}  
12847 Pathogen[ P14079] interacts with 1 human partners:{Q12772}  
12848 Pathogen[ P03410] interacts with 1 human partners:{Q12772}  
12849 Pathogen[ P0C206] interacts with 1 human partners:{Q12772}  
12850 [Cluster 2054]GO:1900037+P  
12851 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96IF1}  
12852 Pathogen[ P03346] interacts with 1 human partners:{Q96IF1}  
12853 Pathogen[ Q85601] interacts with 1 human partners:{Q96IF1}  
12854 Pathogen[ P14079] interacts with 1 human partners:{Q96IF1}  
12855 Pathogen[ P03410] interacts with 1 human partners:{Q96IF1}  
12856 Pathogen[ P0C206] interacts with 1 human partners:{Q96IF1}  
12857 Pathogen[ P03363] interacts with 1 human partners:{Q96IF1}  
12858 [Cluster 2055]GO:0042100+P biological\_process [name] B cell proliferation [def] "The expansion of a B cell population by cell division. Follows B cell activation." [GOC  
12859 Pathogen[ P0C214] interacts with 1 human partners:{P10809}  
12860 Pathogen[ P14079] interacts with 1 human partners:{Q06413}  
12861 [Cluster 2056]GO:0006104+P biological\_process [name] succinyl-CoA metabolic process [def] "The chemical reactions and pathways involving succinyl-CoA, a compound composed of the monovalent acyl group 3-carboxypropanoyl, derived from succinic acid by loss of one OH group, linked to coenzyme A." [GOC  
12862 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9P2R7}  
12863 Pathogen[ P0C214] interacts with 2 human partners:{Q9P2R7;Q96I99}  
12864 Pathogen[ Q85601] interacts with 1 human partners:{Q9P2R7}  
12865 Pathogen[ P14079] interacts with 1 human partners:{Q9P2R7}  
12866 Pathogen[ P03383] interacts with 1 human partners:{Q9P2R7}

12867 Pathogen[ P03410] interacts with 1 human partners:{Q9P2R7}

12868 Pathogen[ P14075] interacts with 1 human partners:{Q9P2R7}

12869 Pathogen[ P0C206] interacts with 1 human partners:{Q9P2R7}

12870 [Cluster 2057]GO:0006122+P biological\_process [name] mitochondrial electron transport, ubiquinol to cytochrome c [def] "The transfer of electrons from ubiquinol to cytochrome c that occurs during oxidative phosphorylation, mediated by the multisubunit enzyme known as complex III." [ISBN

12871 Pathogen[ P14079] interacts with 4 human partners:{Q9UDW1;P14927;P07919;P00156}

12872 Pathogen[ P03410] interacts with 4 human partners:{P07919;Q9UDW1;P00156;P14927}

12873 Pathogen[ P0C206] interacts with 1 human partners:{Q9UDW1}

12874 [Cluster 2058]GO:0007168+P biological\_process [name] receptor guanylyl cyclase signaling pathway [def] "Any series of molecular signals initiated by the binding of an extracellular ligand to a receptor on the surface of the target cell, where the receptor possesses guanylyl cyclase activity." [GOC

12875 Pathogen[ P03346] interacts with 1 human partners:{Q86UT5}

12876 Pathogen[ P14079] interacts with 1 human partners:{Q86UT5}

12877 Pathogen[ P03410] interacts with 1 human partners:{Q86UT5}

12878 Pathogen[ P0C206] interacts with 1 human partners:{Q86UT5}

12879 Pathogen[ P03363] interacts with 1 human partners:{Q86UT5}

12880 [Cluster 2059]GO:0072086+P biological\_process [name] specification of loop of Henle identity [def] "The process in which the loop of Henle of the kidney nephron acquires its identity." [GOC

12881 Pathogen[ P03346] interacts with 2 human partners:{P78415;Q9BZI1}

12882 Pathogen[ P03410] interacts with 1 human partners:{Q9BZI1}

12883 Pathogen[ P0C206] interacts with 1 human partners:{Q9BZI1}

12884 Pathogen[ P03363] interacts with 2 human partners:{P78415;Q9BZI1}

12885 [Cluster 2060]GO:0021937+P biological\_process [name] cerebellar Purkinje cell-granule cell precursor cell signaling involved in regulation of granule cell precursor cell proliferation [def] "The process that mediates the transfer of information from Purkinje cells to granule cell precursors resulting in an increase in rate of granule cell precursor cell proliferation." [GO\_REF

12886 Pathogen[ P03346] interacts with 1 human partners:{Q9H2C1}

12887 Pathogen[ P0C206] interacts with 1 human partners:{Q9H2C1}

12888 [Cluster 2061]GO:0070143+P biological\_process [name] mitochondrial alanyl-tRNA aminoacylation [def] "The process of coupling alanine to alanyl-tRNA in a mitochondrion, catalyzed by alanyl-tRNA synthetase. In tRNA aminoacylation, the amino acid is first activated by linkage to AMP and then transferred to either the 2'- or the 3'-hydroxyl group of the 3'-adenosine residue of the tRNA." [GOC

12889 Pathogen[ P0C214] interacts with 1 human partners:{Q5J TZ9}

12890 [Cluster 2062]GO:0010766+P biological\_process [name] negative regulation of sodium ion transport [def] "Any process that decreases the frequency, rate or extent of the directed movement of sodium ions (Na+) into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore." [GOC

12891 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96PU5}

12892 Pathogen[ P0C214] interacts with 2 human partners:{P07093;Q96PU5}

12893 Pathogen[ P03346] interacts with 1 human partners:{Q96PU5}

12894 Pathogen[ Q85601] interacts with 2 human partners:{Q96PU5;P07093}

12895 Pathogen[ P0C206] interacts with 1 human partners:{Q96PU5}

12896 Pathogen[ P03363] interacts with 1 human partners:{Q96PU5}

12897 [Cluster 2063]GO:0035507+P biological\_process [name] regulation of myosin-light-chain-phosphatase activity [def] "Any process that modulates the frequency, rate or extent of myosin-light-chain-phosphatase activity." [GOC

12898 Pathogen[ Q2Q067] interacts with 1 human partners:{O14974}

12899 Pathogen[ P0C214] interacts with 1 human partners:{O14974}

12900 Pathogen[ P03346] interacts with 1 human partners:{O14974}

12901 Pathogen[ Q85601] interacts with 1 human partners:{O14974}

12902 Pathogen[ P14079] interacts with 1 human partners:{O14974}

12903 Pathogen[ P03410] interacts with 1 human partners:{O14974}

12904 Pathogen[ P0C206] interacts with 1 human partners:{O14974}

12905 Pathogen[ P03363] interacts with 1 human partners:{O14974}

12906 [Cluster 2064]GO:0046901+P biological\_process [name] tetrahydrofolylpolyglutamate biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of tetrahydrofolylpolyglutamate, a folate derivative comprising tetrahydrofolate attached to a chain of glutamate residues." [GOC

12907 Pathogen[ P0C214] interacts with 1 human partners:{Q05932}

12908 Pathogen[ P14079] interacts with 1 human partners:{Q05932}

12909 Pathogen[ P03410] interacts with 1 human partners:{Q05932}

12910 Pathogen[ P0C206] interacts with 1 human partners:{Q05932}

12911 [Cluster 2065]GO:0009187+P biological\_process [name] cyclic nucleotide metabolic process [def] "The chemical reactions and pathways involving a cyclic nucleotide, a nucleotide in which the phosphate group is in diester linkage to two positions on the sugar residue." [GOC

12912 Pathogen[ P14079] interacts with 1 human partners:{Q9NZJ9}

12913 Pathogen[ P03410] interacts with 1 human partners:{Q9NZJ9}

12914 [Cluster 2066]GO:0046882+P biological\_process [name] negative regulation of follicle-stimulating hormone secretion [def] "Any process that stops, prevents, or

reduces the frequency, rate or extent of the regulated release of follicle-stimulating hormone." [GOC

12915 Pathogen[ P03363] interacts with 1 human partners:{P19883}

12916 [Cluster 2067]GO:0015889+P biological\_process [name] cobalamin transport [def] "The directed movement of cobalamin (vitamin B12), a water-soluble vitamin characterized by possession of a corrin nucleus containing a cobalt atom, into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore." [GOC

12917 Pathogen[ P14079] interacts with 1 human partners:{P27352}

12918 Pathogen[ P03410] interacts with 1 human partners:{P27352}

12919 [Cluster 2068]GO:0033273+P biological\_process [name] response to vitamin [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a vitamin stimulus." [GOC

12920 Pathogen[ Q2Q067] interacts with 1 human partners:{P08397}

12921 Pathogen[ P0C214] interacts with 1 human partners:{P08397}

12922 Pathogen[ Q85601] interacts with 1 human partners:{P08397}

12923 Pathogen[ P14079] interacts with 1 human partners:{P08397}

12924 Pathogen[ P03383] interacts with 1 human partners:{P08397}

12925 Pathogen[ P03410] interacts with 1 human partners:{P08397}

12926 Pathogen[ P14075] interacts with 1 human partners:{P08397}

12927 Pathogen[ P0C206] interacts with 1 human partners:{P08397}

12928 [Cluster 2069]GO:0001774+P biological\_process [name] microglial cell activation [def] "The change in morphology and behavior of a microglial cell resulting from exposure to a cytokine, chemokine, cellular ligand, or soluble factor." [GOC

12929 Pathogen[ P0C214] interacts with 1 human partners:{P05412}

12930 Pathogen[ P03346] interacts with 1 human partners:{P05412}

12931 Pathogen[ Q85601] interacts with 1 human partners:{P05412}

12932 Pathogen[ P14079] interacts with 1 human partners:{P05412}

12933 Pathogen[ P03383] interacts with 1 human partners:{P05412}

12934 Pathogen[ P03410] interacts with 1 human partners:{P05412}

12935 Pathogen[ P14075] interacts with 1 human partners:{P05412}

12936 Pathogen[ P0C206] interacts with 1 human partners:{P05412}

12937 Pathogen[ P03363] interacts with 1 human partners:{P05412}

12938 [Cluster 2070]GO:0055074+P biological\_process [name] calcium ion homeostasis [def] "Any process involved in the maintenance of an internal steady state of calcium ions within an organism or cell." [GOC

12939 Pathogen[ Q2Q067] interacts with 1 human partners:{O15164}

12940 Pathogen[ P0C214] interacts with 1 human partners:{O15164}

12941 Pathogen[ P03346] interacts with 2 human partners:{Q92481;O15164}

12942 Pathogen[ Q85601] interacts with 1 human partners:{O15164}

12943 Pathogen[ P14079] interacts with 3 human partners:{O15164;Q96A33;P23327}

12944 Pathogen[ P03410] interacts with 2 human partners:{Q96A33;P23327}

12945 Pathogen[ P14075] interacts with 1 human partners:{P23327}

12946 Pathogen[ P0C206] interacts with 3 human partners:{Q96A33;O15164;P23327}

12947 [Cluster 2071]GO:0015937+P biological\_process [name] coenzyme A biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of coenzyme A, 3'-phosphoadenosine-(5')diphospho(4')pantatheine, an acyl carrier in many acylation and acyl-transfer reactions in which the intermediate is a thiol ester." [ISEN

12948 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9HAB8}

12949 Pathogen[ P0C214] interacts with 4 human partners:{Q8TE04;Q9HAB8;Q13057;Q9BZ23}

12950 Pathogen[ P03346] interacts with 1 human partners:{Q9HAB8}

12951 Pathogen[ P14079] interacts with 6 human partners:{Q8TE04;Q9BZ23;Q13057;Q96CD2;Q9H999;Q9HAB8}

12952 Pathogen[ P03383] interacts with 2 human partners:{Q9BZ23;Q9HAB8}

12953 Pathogen[ P03410] interacts with 5 human partners:{Q8TE04;Q13057;Q96CD2;Q9BZ23;Q9HAB8}

12954 Pathogen[ P14075] interacts with 4 human partners:{Q9HAB8;Q13057;Q8TE04;Q9BZ23}

12955 Pathogen[ P0C206] interacts with 4 human partners:{Q8TE04;Q13057;Q9BZ23;Q9HAB8}

12956 [Cluster 2072]GO:0010906+P biological\_process [name] regulation of glucose metabolic process [def] "Any process that modulates the rate, frequency or extent of glucose metabolism. Glucose metabolic processes are the chemical reactions and pathways involving glucose, the aldohexose gluco-hexose." [GOC

12957 Pathogen[ P14079] interacts with 1 human partners:{O95822}

12958 Pathogen[ P03410] interacts with 1 human partners:{O95822}

12959 [Cluster 2073]GO:0048592+P biological\_process [name] eye morphogenesis [def] "The process in which the anatomical structures of the eye are generated and organized." [GOC

12960 Pathogen[ P14079] interacts with 1 human partners:{P54826}

12961 Pathogen[ P03410] interacts with 1 human partners:{P54826}

12962 Pathogen[ P14075] interacts with 1 human partners:{P54826}

12963 Pathogen[ P0C206] interacts with 1 human partners:{P54826}

12964 [Cluster 2074]GO:0072105+P biological\_process [name] ureteric peristalsis [def] "A wavelike sequence of involuntary muscular contraction and relaxation that passes along the ureter, impelling the contents onwards. The ureter is one of a pair of thick-walled tubes that transports urine from the kidney pelvis to the urinary bladder." [GOC

12965 Pathogen[ Q2Q067] interacts with 1 human partners:{Q63HK5}

12966 Pathogen[ P0C214] interacts with 1 human partners:{Q63HK5}

12967 Pathogen[ P03346] interacts with 1 human partners:{Q63HK5}

12968 Pathogen[ Q85601] interacts with 1 human partners:{Q63HK5}

12969 Pathogen[ P14079] interacts with 1 human partners:{Q63HK5}

12970 Pathogen[ P03410] interacts with 1 human partners:{Q63HK5}

12971 Pathogen[ P0C206] interacts with 1 human partners:{Q63HK5}

12972 Pathogen[ P03363] interacts with 1 human partners:{Q63HK5}

12973 [Cluster 2075]GO:0090241+P biological\_process [name] negative regulation of histone H4 acetylation [def] "Any process that decreases the rate, frequency, or extent of histone H4 acetylation, the modification of histone H4 by the addition of an acetyl group." [GOC

12974 Pathogen[ Q2Q067] interacts with 2 human partners:{Q13363;P17947}

12975 Pathogen[ P0C214] interacts with 2 human partners:{Q13363;P17947}

12976 Pathogen[ P03346] interacts with 2 human partners:{P17947;Q13363}

12977 Pathogen[ Q85601] interacts with 2 human partners:{Q13363;P17947}

12978 Pathogen[ P03383] interacts with 2 human partners:{P17947;Q13363}

12979 Pathogen[ P03410] interacts with 1 human partners:{P17947}

12980 Pathogen[ P14075] interacts with 2 human partners:{P17947;Q13363}

12981 Pathogen[ P0C206] interacts with 2 human partners:{P17947;Q13363}

12982 Pathogen[ P03363] interacts with 2 human partners:{P17947;Q13363}

12983 [Cluster 2076]GO:0000105+P biological\_process [name] histidine biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of histidine, 2-amino-3-(1H-imidazol-4-yl)propanoic acid." [GOC

12984 Pathogen[ P0C214] interacts with 1 human partners:{P11586}

12985 [Cluster 2077]GO:0070254+P biological\_process [name] mucus secretion [def] "The regulated release of mucus by the mucosa. Mucus is a viscous slimy secretion consisting of mucins and various inorganic salts dissolved in water, with suspended epithelial cells and leukocytes. The mucosa, or mucous membrane, is the membrane covered with epithelium that lines the tubular organs of the body. Mucins are carbohydrate-rich glycoproteins that have a lubricating and protective function." [GOC

12986 Pathogen[ P03410] interacts with 1 human partners:{O95994}

12987 [Cluster 2078]GO:0035037+P biological\_process [name] sperm entry [def] "An endocytosis process that results in penetration of the egg shell through the micropyle (a specialized anterior opening in the vitelline envelope) and entry of the entire sperm, including the surrounding plasma membrane and the sperm tail, into the egg cytoplasm. This step in fertilization is seen in Drosophila, where a plasma membrane fusion event between the sperm and the egg does not occur." [GOC

12988 Pathogen[ Q2Q067] interacts with 1 human partners:{Q05086}

12989 Pathogen[ P0C214] interacts with 1 human partners:{Q05086}

12990 Pathogen[ P03346] interacts with 1 human partners:{Q05086}

12991 Pathogen[ Q85601] interacts with 1 human partners:{Q05086}

12992 Pathogen[ P0C206] interacts with 1 human partners:{Q05086}

12993 Pathogen[ P03363] interacts with 1 human partners:{Q05086}

12994 [Cluster 2079]GO:0051102+P biological\_process [name] DNA ligation involved in DNA recombination [def] "The re-formation of a broken phosphodiester bond in the DNA backbone, carried out by DNA ligase, that contributes to DNA recombination." [GOC

12995 Pathogen[ P14079] interacts with 1 human partners:{P49917}

12996 Pathogen[ P0C206] interacts with 1 human partners:{P49917}

12997 [Cluster 2080]GO:0071371+P biological\_process [name] cellular response to gonadotropin stimulus [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a gonadotropin stimulus." [GOC

12998 Pathogen[ P03346] interacts with 1 human partners:{Q06710}

12999 [Cluster 2081]GO:0000038+P biological\_process [name] very long chain fatty acid metabolic process [def] "The chemical reactions and pathways involving fatty acids with a chain length of C18 or greater." [GOC

13000 Pathogen[ Q2Q067] interacts with 1 human partners:{Q86TX2}

13001 Pathogen[ P0C214] interacts with 2 human partners:{Q9NXB9;Q86TX2}

13002 Pathogen[ P03346] interacts with 2 human partners:{Q86TX2;P50542}

13003 Pathogen[ Q85601] interacts with 1 human partners:{Q86TX2}

13004 Pathogen[ P14079] interacts with 3 human partners:{P49753;P50542;Q86TX2}

13005 Pathogen[ P03410] interacts with 3 human partners:{Q86TX2;P50542;P49753}

13006 Pathogen[ P0C206] interacts with 2 human partners:{Q86TX2;P50542}

13007 [Cluster 2082]GO:0050665+P biological\_process [name] hydrogen peroxide biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of hydrogen peroxide (H2O2), a potentially harmful byproduct of aerobic cellular respiration which can cause damage to DNA." [GOC

13008 Pathogen[ P14079] interacts with 1 human partners:{P13498}

13009 [Cluster 2083]GO:0006824+P biological\_process [name] cobalt ion transport [def] "The directed movement of cobalt (Co) ions into, out of or within a cell, or between cells, by means of some agent such as a transporter or pore." [GOC

13010 Pathogen[ P14079] interacts with 1 human partners:{P27352}

13011 Pathogen[ P03410] interacts with 1 human partners:{P27352}

13012 [Cluster 2084]GO:0034405+P biological\_process [name] response to fluid shear stress [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a fluid shear stress stimulus. Fluid shear stress is the force acting on an object in a system where the fluid is moving across a solid surface." [GOC

13013 Pathogen[ Q2Q067] interacts with 2 human partners:{P31749;P29474}

13014 Pathogen[ POC214] interacts with 2 human partners:{P29474;P31749}

13015 Pathogen[ P03346] interacts with 2 human partners:{P29474;P31749}

13016 Pathogen[ Q85601] interacts with 2 human partners:{P31749;P29474}

13017 Pathogen[ P03383] interacts with 2 human partners:{P29474;P31749}

13018 Pathogen[ P03410] interacts with 2 human partners:{P31749;P29474}

13019 Pathogen[ P14075] interacts with 2 human partners:{P29474;P31749}

13020 Pathogen[ POC206] interacts with 2 human partners:{P31749;P29474}

13021 Pathogen[ P03363] interacts with 2 human partners:{P29474;P31749}

13022 [Cluster 2085]GO:0009744+P biological\_process [name] response to sucrose stimulus [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a sucrose stimulus." [GOC

13023 Pathogen[ P03346] interacts with 1 human partners:{P07992}

13024 Pathogen[ P14079] interacts with 1 human partners:{P07992}

13025 Pathogen[ P03410] interacts with 1 human partners:{P07992}

13026 Pathogen[ POC206] interacts with 1 human partners:{P07992}

13027 [Cluster 2086]GO:0009051+P biological\_process [name] pentose-phosphate shunt, oxidative branch [def] "The branch of the pentose-phosphate shunt which involves the oxidation of glucose 6-P and produces ribulose 5-P, reduced NADP+ and carbon dioxide (CO2)." [ISBN

13028 Pathogen[ Q2Q067] interacts with 1 human partners:{O95336}

13029 Pathogen[ POC214] interacts with 3 human partners:{P52209;P11413;O95336}

13030 Pathogen[ P03346] interacts with 1 human partners:{O95336}

13031 Pathogen[ Q85601] interacts with 1 human partners:{O95336}

13032 Pathogen[ P14079] interacts with 2 human partners:{P52209;O95336}

13033 Pathogen[ P03410] interacts with 2 human partners:{P52209;O95336}

13034 Pathogen[ P14075] interacts with 1 human partners:{O95336}

13035 Pathogen[ POC206] interacts with 1 human partners:{O95336}

13036 Pathogen[ P03363] interacts with 1 human partners:{O95336}

13037 [Cluster 2087]GO:0000725+P biological\_process [name] recombinational repair [def] "A DNA repair process that involves the exchange, reciprocal or nonreciprocal, of genetic material between the broken DNA molecule and a homologous region of DNA." [GOC

13038 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BSD3}

13039 Pathogen[ POC214] interacts with 1 human partners:{Q9BSD3}

13040 Pathogen[ P03346] interacts with 1 human partners:{Q9BSD3}

13041 Pathogen[ P14079] interacts with 1 human partners:{Q9BSD3}

13042 Pathogen[ P03383] interacts with 1 human partners:{Q9BSD3}

13043 Pathogen[ P03410] interacts with 1 human partners:{Q9BSD3}

13044 Pathogen[ P14075] interacts with 1 human partners:{Q9BSD3}

13045 Pathogen[ POC206] interacts with 1 human partners:{Q9BSD3}

13046 Pathogen[ P03363] interacts with 1 human partners:{Q9BSD3}

13047 [Cluster 2088]GO:0001562+P biological\_process [name] response to protozoan [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a stimulus from a protozoan." [GOC

13048 Pathogen[ P14079] interacts with 1 human partners:{P46695}

13049 Pathogen[ P03410] interacts with 1 human partners:{P46695}

13050 [Cluster 2089]GO:0072089+P biological\_process [name] stem cell proliferation [def] "The multiplication or reproduction of stem cells, resulting in the expansion of a stem cell population. A stem cell is a cell that retains the ability to divide and proliferate throughout life to provide progenitor cells that can differentiate into specialized cells." [GOC

13051 Pathogen[ P14079] interacts with 1 human partners:{P48681}

13052 [Cluster 2090]GO:0043651+P biological\_process [name] linoleic acid metabolic process [def] "The chemical reactions and pathways involving linoleic acid, an unsaturated omega-6 fatty acid that has the molecular formula C18H32O2." [Wikipedia

13053 Pathogen[ POC214] interacts with 2 human partners:{Q9NXB9;Q9NYP7}

13054 [Cluster 2091]GO:0010259+P biological\_process [name] multicellular organismal aging [def] "The inherent decline of a multicellular organism over time, from the optimal fertility and viability of early maturity, that may precede death and may be preceded by other indications, such as sterility." [GOC

13055 Pathogen[ Q2Q067] interacts with 1 human partners:{A6NFD8}

13056 Pathogen[ P03346] interacts with 2 human partners:{A6NFD8;P07992}

13057 Pathogen[ Q85601] interacts with 1 human partners:{A6NFD8}

13058 Pathogen[ P14079] interacts with 3 human partners:{Q9Y6X1;A6NFD8;P07992}

13059 Pathogen[ P03410] interacts with 3 human partners:{P07992;A6NFD8;Q9Y6X1}

13060 Pathogen[ POC206] interacts with 2 human partners:{A6NFD8;P07992}

13061 Pathogen[ P03363] interacts with 1 human partners:{A6NFD8}

13062 [Cluster 2092]GO:0072136+P biological\_process [name] metanephric mesenchymal cell proliferation involved in metanephros development [def] "The multiplication or reproduction of cells, resulting in the expansion of a metanephric mesenchymal cell population." [GOC

13063 Pathogen[ Q2Q067] interacts with 1 human partners:{P42224}

13064 Pathogen[ POC214] interacts with 1 human partners:{P42224}

13065 Pathogen[ P03346] interacts with 1 human partners:{P42224}

13066 Pathogen[ Q85601] interacts with 1 human partners:{P42224}

13067 Pathogen[ P14079] interacts with 1 human partners:{P42224}

13068 Pathogen[ P0C206] interacts with 1 human partners:{P42224}

13069 [Cluster 2093]GO:0032855+P biological\_process [name] positive regulation of Rac GTPase activity [def] "Any process that activates or increases the activity of a GTPase of the Rac family." [GOC]

13070 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8N1I0}

13071 Pathogen[ P0C214] interacts with 1 human partners:{Q8N1I0}

13072 Pathogen[ P03346] interacts with 1 human partners:{Q8N1I0}

13073 Pathogen[ Q85601] interacts with 1 human partners:{Q8N1I0}

13074 Pathogen[ P14079] interacts with 1 human partners:{Q8N1I0}

13075 Pathogen[ P03410] interacts with 1 human partners:{Q8N1I0}

13076 Pathogen[ P0C206] interacts with 1 human partners:{Q8N1I0}

13077 Pathogen[ P03363] interacts with 1 human partners:{Q8N1I0}

13078 [Cluster 2094]GO:0007035+P biological\_process [name] vacuolar acidification [def] "Any process that reduces the pH of the vacuole, measured by the concentration of the hydrogen ion." [GOC]

13079 Pathogen[ P0C214] interacts with 1 human partners:{Q9UII2}

13080 Pathogen[ P14079] interacts with 1 human partners:{Q9UII2}

13081 Pathogen[ P03410] interacts with 1 human partners:{Q9UII2}

13082 Pathogen[ P0C206] interacts with 1 human partners:{Q9UII2}

13083 [Cluster 2095]GO:0009098+P biological\_process [name] leucine biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of leucine, 2-amino-4-methylpentanoic acid." [GOC]

13084 Pathogen[ P0C214] interacts with 1 human partners:{O15382}

13085 Pathogen[ Q85601] interacts with 1 human partners:{O15382}

13086 Pathogen[ P14079] interacts with 1 human partners:{O15382}

13087 Pathogen[ P03410] interacts with 1 human partners:{O15382}

13088 Pathogen[ P0C206] interacts with 1 human partners:{O15382}

13089 [Cluster 2096]GO:0051295+P biological\_process [name] establishment of meiotic spindle localization [def] "The cell cycle process in which the directed movement of the meiotic spindle to a specific location in the cell occurs." [GOC]

13090 Pathogen[ Q2Q067] interacts with 1 human partners:{P35579}

13091 Pathogen[ P03346] interacts with 1 human partners:{P35579}

13092 Pathogen[ Q85601] interacts with 1 human partners:{P35579}

13093 Pathogen[ P14079] interacts with 1 human partners:{P35579}

13094 Pathogen[ P03383] interacts with 1 human partners:{P35579}

13095 Pathogen[ P03410] interacts with 1 human partners:{P35579}

13096 Pathogen[ P14075] interacts with 1 human partners:{P35579}

13097 Pathogen[ P0C206] interacts with 1 human partners:{P35579}

13098 Pathogen[ P03363] interacts with 1 human partners:{P35579}

13099 [Cluster 2097]GO:0048048+P biological\_process [name] embryonic eye morphogenesis [def] "The process occurring in the embryo by which the anatomical structures of the post-embryonic eye are generated and organized." [GOC]

13100 Pathogen[ P03346] interacts with 2 human partners:{P58012;Q9UIW0}

13101 Pathogen[ P03363] interacts with 1 human partners:{Q9UIW0}

13102 [Cluster 2098]GO:0016255+P biological\_process [name] attachment of GPI anchor to protein [def] "A transamidation reaction that results in the cleavage of the polypeptide chain and the concomitant transfer of the GPI anchor to the newly formed carboxy-terminal amino acid of the anchored protein. The cleaved C-terminal contains the C-terminal GPI signal sequence of the newly synthesized polypeptide chain." [ISBN]

13103 Pathogen[ P14079] interacts with 4 human partners:{O43292;Q96S52;Q969N2;Q9H490}

13104 Pathogen[ P03410] interacts with 3 human partners:{Q96S52;Q969N2;Q9H490}

13105 [Cluster 2099]GO:0060425+P biological\_process [name] lung morphogenesis [def] "The process in which the anatomical structures of the lung are generated and organized." [GOC]

13106 Pathogen[ Q2Q067] interacts with 1 human partners:{P41134}

13107 Pathogen[ P0C214] interacts with 1 human partners:{P41134}

13108 Pathogen[ P03346] interacts with 2 human partners:{O43680;P41134}

13109 Pathogen[ Q85601] interacts with 1 human partners:{P41134}

13110 Pathogen[ P14079] interacts with 2 human partners:{O43597;P41134}

13111 Pathogen[ P03410] interacts with 2 human partners:{O43597;P41134}

13112 Pathogen[ P0C206] interacts with 2 human partners:{P41134;O43597}

13113 Pathogen[ P03363] interacts with 1 human partners:{P41134}

13114 [Cluster 2100]GO:0045907+P biological\_process [name] positive regulation of vasoconstriction [def] "Any process that activates or increases the frequency, rate or extent of vasoconstriction." [GOC]

13115 Pathogen[ Q2Q067] interacts with 1 human partners:{P09917}

13116 Pathogen[ P0C214] interacts with 1 human partners:{P09917}

13117 Pathogen[ P03346] interacts with 2 human partners:{A8MU46;P09917}

13118 Pathogen[ Q85601] interacts with 1 human partners:{P09917}

13119 Pathogen[ P14079] interacts with 1 human partners:{P09917}

13120 Pathogen[ P03410] interacts with 2 human partners:{A8MU46;P09917}

13121 Pathogen[ P0C206] interacts with 1 human partners:{P09917}

13122 Pathogen[ P03363] interacts with 1 human partners:{A8MU46}

13123 [Cluster 2101]GO:0009436+P biological\_process [name] glyoxylate catabolic process

[def] "The chemical reactions and pathways resulting in the breakdown of glyoxylate, the anion of glyoxylic acid, HOC-COOH." [ISBN

13124 Pathogen[ POC214] interacts with 1 human partners:{Q86XE5}

13125 Pathogen[ P14079] interacts with 1 human partners:{Q86XE5}

13126 Pathogen[ P03410] interacts with 1 human partners:{Q86XE5}

13127 Pathogen[ P14075] interacts with 1 human partners:{Q86XE5}

13128 Pathogen[ POC206] interacts with 1 human partners:{Q86XE5}

13129 [Cluster 2102]GO:0001754+P biological\_process [name] eye photoreceptor cell differentiation [def] "The process in which a relatively unspecialized cell acquires the specialized features of a photoreceptor cell, as found in the eye, the primary visual organ of most organisms." [GOC

13130 Pathogen[ Q2Q067] interacts with 1 human partners:{P40763}

13131 Pathogen[ POC214] interacts with 1 human partners:{P40763}

13132 Pathogen[ P03346] interacts with 3 human partners:{Q969G9;Q06190;P40763}

13133 Pathogen[ Q85601] interacts with 1 human partners:{P40763}

13134 Pathogen[ P14079] interacts with 2 human partners:{Q9UPW5;Q06190}

13135 Pathogen[ P03410] interacts with 4 human partners:{Q9UPW5;Q06190;Q969G9;P40763}

13136 Pathogen[ POC206] interacts with 4 human partners:{Q06190;P40763;Q9UPW5;Q969G9}

13137 Pathogen[ P03363] interacts with 2 human partners:{Q06190;Q969G9}

13138 [Cluster 2103]GO:0072284+P biological\_process [name] metanephric S-shaped body morphogenesis [def] "The process in which the metanephric S-shaped body is generated and organized. The metanephric S-shaped body is the successor of the metanephric comma-shaped body that contributes to the morphogenesis of a nephron in the metanephros." [GOC

13139 Pathogen[ P03346] interacts with 1 human partners:{Q06710}

13140 [Cluster 2104]GO:0032780+P biological\_process [name] negative regulation of ATPase activity [def] "Any process that stops or reduces the rate of ATP hydrolysis by an ATPase." [GOC

13141 Pathogen[ POC214] interacts with 1 human partners:{P19429}

13142 Pathogen[ P14079] interacts with 2 human partners:{P19429;Q15070}

13143 Pathogen[ P03410] interacts with 2 human partners:{P19429;Q15070}

13144 Pathogen[ P14075] interacts with 1 human partners:{Q15070}

13145 Pathogen[ POC206] interacts with 2 human partners:{P19429;Q15070}

13146 Pathogen[ P03363] interacts with 1 human partners:{P19429}

13147 [Cluster 2105]GO:0002521+P biological\_process [name] leukocyte differentiation [def] "The process in which a relatively unspecialized hemopoietic precursor cell acquires the specialized features of a leukocyte. A leukocyte is an achromatic cell of the myeloid or lymphoid lineages capable of ameboid movement, found in blood or other tissue." [CL

13148 Pathogen[ Q2Q067] interacts with 1 human partners:{P11831}

13149 Pathogen[ POC214] interacts with 1 human partners:{P11831}

13150 Pathogen[ P03346] interacts with 1 human partners:{P11831}

13151 Pathogen[ Q85601] interacts with 1 human partners:{P11831}

13152 Pathogen[ P03383] interacts with 1 human partners:{P11831}

13153 Pathogen[ P03410] interacts with 1 human partners:{P11831}

13154 Pathogen[ P14075] interacts with 1 human partners:{P11831}

13155 Pathogen[ POC206] interacts with 1 human partners:{P11831}

13156 Pathogen[ P03363] interacts with 1 human partners:{P11831}

13157 [Cluster 2106]GO:0019322+P biological\_process [name] pentose biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of a pentose, any monosaccharide with a chain of five carbon atoms in the molecule." [ISBN

13158 Pathogen[ POC214] interacts with 2 human partners:{P52209;P11413}

13159 Pathogen[ P14079] interacts with 1 human partners:{P52209}

13160 Pathogen[ P03410] interacts with 1 human partners:{P52209}

13161 [Cluster 2107]GO:0046486+P biological\_process [name] glycerolipid metabolic process [def] "The chemical reactions and pathways involving glycerolipids, any lipid with a glycerol backbone. Diacylglycerol and phosphatidate are key lipid intermediates of glycerolipid biosynthesis." [GOC

13162 Pathogen[ POC214] interacts with 1 human partners:{P21695}

13163 Pathogen[ P14079] interacts with 1 human partners:{P21695}

13164 Pathogen[ P03410] interacts with 1 human partners:{P21695}

13165 [Cluster 2108]GO:2000615+P biological\_process [name] regulation of histone H3-K9 acetylation [def] "Any process that modulates the frequency, rate or extent of histone H3-K9 acetylation." [GOC

13166 Pathogen[ Q2Q067] interacts with 1 human partners:{O14757}

13167 Pathogen[ POC214] interacts with 1 human partners:{O14757}

13168 Pathogen[ P03346] interacts with 1 human partners:{O14757}

13169 Pathogen[ Q85601] interacts with 1 human partners:{O14757}

13170 Pathogen[ P03383] interacts with 1 human partners:{O14757}

13171 Pathogen[ P03410] interacts with 1 human partners:{O14757}

13172 Pathogen[ P14075] interacts with 1 human partners:{O14757}

13173 Pathogen[ P03363] interacts with 1 human partners:{O14757}

13174 [Cluster 2109]GO:0035434+P biological\_process [name] copper ion transmembrane transport [def] "The directed movement of copper (Cu) ions across a membrane by means of some agent such as a transporter or pore." [GOC

13175 Pathogen[ Q2Q067] interacts with 1 human partners:{O14618}



13176 Pathogen[ P0C214] interacts with 1 human partners:{014618}

13177 Pathogen[ P03346] interacts with 1 human partners:{014618}

13178 Pathogen[ Q85601] interacts with 1 human partners:{014618}

13179 Pathogen[ P14079] interacts with 1 human partners:{014618}

13180 Pathogen[ P03410] interacts with 1 human partners:{014618}

13181 Pathogen[ P0C206] interacts with 1 human partners:{014618}

13182 Pathogen[ P03363] interacts with 1 human partners:{014618}

13183 [Cluster 2110]GO:0009296+P biological\_process [name] flagellum assembly [def] "The assembly of a flagellum. In bacteria, this is a whiplike motility appendage present on the surface of some species\_ in eukaryotes, flagella are threadlike protoplasmic extensions used to propel flagellates and sperm. Flagella are composed of flagellin and have the same basic structure as cilia but are longer in proportion to the cell and present in much smaller numbers." [GOC

13184 Pathogen[ P03346] interacts with 1 human partners:{Q9NQC8}

13185 Pathogen[ P14079] interacts with 2 human partners:{Q8N3I7;Q9NQC8}

13186 Pathogen[ P03410] interacts with 2 human partners:{Q8N3I7;Q9NQC8}

13187 Pathogen[ P0C206] interacts with 2 human partners:{Q9NQC8;Q8N3I7}

13188 Pathogen[ P03363] interacts with 1 human partners:{Q9NQC8}

13189 [Cluster 2111]GO:0080111+P biological\_process [name] DNA demethylation [def] "The removal of a methyl group from one or more nucleotides within an DNA molecule." [PMID

13190 Pathogen[ Q2Q067] interacts with 3 human partners:{Q6NS38;P27695;Q9GZX7}

13191 Pathogen[ P0C214] interacts with 3 human partners:{P27695;Q6NS38;Q9GZX7}

13192 Pathogen[ P03346] interacts with 1 human partners:{P27695}

13193 Pathogen[ Q85601] interacts with 3 human partners:{Q9GZX7;Q6NS38;P27695}

13194 Pathogen[ P14079] interacts with 6 human partners:{P41238;Q9C0B1;P31941;Q9GZX7;Q6NS38;P27695}

13195 Pathogen[ P03383] interacts with 1 human partners:{P27695}

13196 Pathogen[ P03410] interacts with 7 human partners:{P41238;Q6NS38;Q9GZX7;Q9NRW3;P31941;P27695;Q9C0B1}

13197 Pathogen[ P14075] interacts with 1 human partners:{P27695}

13198 Pathogen[ P0C206] interacts with 5 human partners:{P27695;Q6NS38;Q9GZX7;P31941;P41238}

13199 [Cluster 2112]GO:0060364+P biological\_process [name] frontal suture morphogenesis [def] "The process in which the frontal suture is generated and organized." [GOC

13200 Pathogen[ Q2Q067] interacts with 1 human partners:{P35548}

13201 Pathogen[ P0C214] interacts with 1 human partners:{P35548}

13202 Pathogen[ P03346] interacts with 1 human partners:{P35548}

13203 Pathogen[ Q85601] interacts with 1 human partners:{P35548}

13204 Pathogen[ P03383] interacts with 1 human partners:{P35548}

13205 Pathogen[ P03410] interacts with 1 human partners:{P35548}

13206 Pathogen[ P14075] interacts with 1 human partners:{P35548}

13207 Pathogen[ P0C206] interacts with 1 human partners:{P35548}

13208 Pathogen[ P03363] interacts with 1 human partners:{P35548}

13209 [Cluster 2113]GO:0072179+P biological\_process [name] nephric duct formation [def] "The developmental process pertaining to the initial formation of a nephric duct. A nephric duct is a tube that drains a primitive kidney." [GOC

13210 Pathogen[ Q2Q067] interacts with 1 human partners:{P35680}

13211 Pathogen[ P03346] interacts with 1 human partners:{P35680}

13212 Pathogen[ Q85601] interacts with 1 human partners:{P35680}

13213 Pathogen[ P14079] interacts with 1 human partners:{P35680}

13214 Pathogen[ P03410] interacts with 1 human partners:{P35680}

13215 Pathogen[ P0C206] interacts with 1 human partners:{P35680}

13216 [Cluster 2114]GO:0031118+P biological\_process [name] rRNA pseudouridine synthesis [def] "The intramolecular conversion of uridine to pseudouridine in an rRNA molecule." [GOC

13217 Pathogen[ P03346] interacts with 1 human partners:{Q9NX24}

13218 Pathogen[ P03410] interacts with 1 human partners:{Q9NX24}

13219 Pathogen[ P03363] interacts with 1 human partners:{Q9NX24}

13220 [Cluster 2115]GO:0043306+P biological\_process [name] positive regulation of mast cell degranulation [def] "Any process that activates or increases the frequency, rate or extent of mast cell degranulation." [ISBN

13221 Pathogen[ P0C214] interacts with 1 human partners:{Q9UQC2}

13222 Pathogen[ P03346] interacts with 1 human partners:{Q9UQC2}

13223 Pathogen[ Q85601] interacts with 1 human partners:{Q9UQC2}

13224 Pathogen[ P14079] interacts with 1 human partners:{Q9UQC2}

13225 Pathogen[ P03410] interacts with 1 human partners:{Q9UQC2}

13226 Pathogen[ P0C206] interacts with 1 human partners:{Q9UQC2}

13227 Pathogen[ P03363] interacts with 1 human partners:{Q9UQC2}

13228 [Cluster 2116]GO:0006004+P biological\_process [name] fucose metabolic process [def] "The chemical reactions and pathways involving fucose, or 6-deoxygalactose, which has two enantiomers, D-fucose and L-fucose." [ISBN

13229 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y2G5}

13230 Pathogen[ P14079] interacts with 4 human partners:{A2VDF0;P04066;Q9H488;Q9Y2G5}

13231 Pathogen[ P03410] interacts with 4 human partners:{A2VDF0;P04066;Q9Y2G5;Q9H488}

13232 Pathogen[ P14075] interacts with 1 human partners:{Q9Y2G5}

13233 Pathogen[ P0C206] interacts with 2 human partners:{A2VDF0;Q9Y2G5}

13234 [Cluster 2117]GO:0001580+P biological\_process [name] detection of chemical stimulus involved in sensory perception of bitter taste [def] "The series of events required for a bitter taste stimulus to be received and converted to a molecular signal." [GOC

13235 Pathogen[ P03346] interacts with 2 human partners:{Q9BQQ7;Q96DX8}

13236 Pathogen[ P14079] interacts with 3 human partners:{Q9NYV7;Q96DX8;Q9BQQ7}

13237 Pathogen[ P03410] interacts with 2 human partners:{Q9BQQ7;Q96DX8}

13238 Pathogen[ P0C206] interacts with 2 human partners:{Q96DX8;Q9BQQ7}

13239 Pathogen[ P03363] interacts with 2 human partners:{Q9BQQ7;Q96DX8}

13240 [Cluster 2118]GO:0006683+P biological\_process [name] galactosylceramide catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of galactosylceramides, any compound formed by the replacement of the glycosidic hydroxyl group of a cyclic form of galactose by a ceramide group." [GOC

13241 Pathogen[ P14079] interacts with 1 human partners:{P54803}

13242 Pathogen[ P03410] interacts with 1 human partners:{P54803}

13243 [Cluster 2119]GO:0006556+P biological\_process [name] S-adenosylmethionine biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of S-adenosylmethionine, S-(5'-adenosyl)-L-methionine, an important intermediate in one-carbon metabolism." [GOC

13244 Pathogen[ P0C214] interacts with 1 human partners:{Q9NZL9}

13245 Pathogen[ P03346] interacts with 1 human partners:{Q9NZL9}

13246 Pathogen[ P14079] interacts with 1 human partners:{Q9NZL9}

13247 Pathogen[ P03410] interacts with 1 human partners:{Q9NZL9}

13248 Pathogen[ P0C206] interacts with 1 human partners:{Q9NZL9}

13249 [Cluster 2120]GO:0001680+P biological\_process [name] tRNA 3'-terminal CCA addition [def] "Post-transcriptional addition of the terminal 3' CCA sequence to a tRNA which does not encode this sequence within the primary transcript." [GOC

13250 Pathogen[ P14079] interacts with 1 human partners:{Q96Q11}

13251 Pathogen[ P03410] interacts with 1 human partners:{Q96Q11}

13252 [Cluster 2121]GO:0050855+P biological\_process [name] regulation of B cell receptor signaling pathway [def] "Any process that modulates the frequency, rate or extent of signaling pathways initiated by the cross-linking of an antigen receptor on a B cell." [GOC

13253 Pathogen[ P03346] interacts with 1 human partners:{Q9Y2R2}

13254 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y2R2}

13255 Pathogen[ P03363] interacts with 1 human partners:{Q9Y2R2}

13256 [Cluster 2122]GO:0003138+P biological\_process [name] primary heart field specification [def] "The process that results in the delineation of a specific region of the lateral mesoderm into the area which will form the primary beating heart tube." [GOC

13257 Pathogen[ P14079] interacts with 1 human partners:{Q06413}

13258 [Cluster 2123]GO:0048703+P biological\_process [name] embryonic viscerocranium morphogenesis [def] "The process in which the anatomical structures of the viscerocranium are generated and organized during the embryonic phase. The viscerocranium is the part of the skull comprising the facial bones." [GOC

13259 Pathogen[ Q2Q067] interacts with 1 human partners:{O43364}

13260 Pathogen[ P03346] interacts with 1 human partners:{O43364}

13261 Pathogen[ Q85601] interacts with 1 human partners:{O43364}

13262 Pathogen[ P14079] interacts with 1 human partners:{O43364}

13263 Pathogen[ P03410] interacts with 1 human partners:{O43364}

13264 Pathogen[ P0C206] interacts with 1 human partners:{O43364}

13265 Pathogen[ P03363] interacts with 1 human partners:{O43364}

13266 [Cluster 2124]GO:0032275+P biological\_process [name] luteinizing hormone secretion [def] "The regulated release of luteinizing hormone, a gonadotropic glycoprotein hormone secreted by the anterior pituitary." [ISBN

13267 Pathogen[ P14079] interacts with 1 human partners:{P01215}

13268 Pathogen[ P03383] interacts with 1 human partners:{P01215}

13269 Pathogen[ P03410] interacts with 1 human partners:{P01215}

13270 Pathogen[ P14075] interacts with 1 human partners:{P01215}

13271 Pathogen[ P0C206] interacts with 1 human partners:{P01215}

13272 [Cluster 2125]GO:0007586+P biological\_process [name] digestion [def] "The whole of the physical, chemical, and biochemical processes carried out by multicellular organisms to break down ingested nutrients into components that may be easily absorbed and directed into metabolism." [GOC

13273 Pathogen[ P0C214] interacts with 1 human partners:{Q06520}

13274 Pathogen[ P03346] interacts with 2 human partners:{Q06520;P01358}

13275 Pathogen[ P14079] interacts with 2 human partners:{Q9NS71;P01358}

13276 Pathogen[ P03383] interacts with 1 human partners:{P01358}

13277 Pathogen[ P03410] interacts with 2 human partners:{Q9NS71;P01358}

13278 Pathogen[ P14075] interacts with 2 human partners:{P01358;Q9NS71}

13279 Pathogen[ P0C206] interacts with 1 human partners:{P01358}

13280 Pathogen[ P03363] interacts with 2 human partners:{P01358;Q06520}

13281 [Cluster 2126]GO:0033504+P biological\_process [name] floor plate development [def] "The progression of the floor plate over time from its initial formation until its mature state." [GOC

13282 Pathogen[ Q2Q067] interacts with 1 human partners:{Q15468}

13283 Pathogen[ P0C214] interacts with 1 human partners:{Q15468}

13284 Pathogen[ P03346] interacts with 1 human partners:{Q15468}

13285 Pathogen[ P14079] interacts with 1 human partners:{Q15468}

13286 Pathogen[ P03383] interacts with 1 human partners:{Q15468}

13287 Pathogen[ P03410] interacts with 1 human partners:{Q15468}

13288 Pathogen[ P14075] interacts with 1 human partners:{Q15468}

13289 Pathogen[ P0C206] interacts with 1 human partners:{Q15468}

13290 Pathogen[ P03363] interacts with 1 human partners:{Q15468}

13291 [Cluster 2127]GO:0001706+P biological\_process [name] endoderm formation [def] "The formation of the endoderm during gastrulation." [GOC

13292 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BT81}

13293 Pathogen[ P0C214] interacts with 1 human partners:{Q9BT81}

13294 Pathogen[ P03346] interacts with 2 human partners:{Q9H2W2;Q9BT81}

13295 Pathogen[ Q85601] interacts with 1 human partners:{Q9BT81}

13296 Pathogen[ P14079] interacts with 1 human partners:{Q9BT81}

13297 Pathogen[ P03410] interacts with 1 human partners:{Q9BT81}

13298 Pathogen[ P0C206] interacts with 1 human partners:{Q9BT81}

13299 Pathogen[ P03363] interacts with 2 human partners:{Q9H2W2;Q9BT81}

13300 [Cluster 2128]GO:0001886+P biological\_process [name] endothelial cell morphogenesis [def] "The change in form (cell shape and size) that occurs during the differentiation of an endothelial cell." [GOC

13301 Pathogen[ Q2Q067] interacts with 1 human partners:{P41134}

13302 Pathogen[ P0C214] interacts with 1 human partners:{P41134}

13303 Pathogen[ P03346] interacts with 2 human partners:{P31271;P41134}

13304 Pathogen[ Q85601] interacts with 2 human partners:{P41134;P31271}

13305 Pathogen[ P14079] interacts with 2 human partners:{P31271;P41134}

13306 Pathogen[ P03410] interacts with 1 human partners:{P41134}

13307 Pathogen[ P0C206] interacts with 2 human partners:{P41134;P31271}

13308 Pathogen[ P03363] interacts with 2 human partners:{P31271;P41134}

13309 [Cluster 2129]GO:0003290+P biological\_process [name] atrial septum secundum morphogenesis [def] "The process in which anatomical structure of an atrial septum secundum is generated and organized." [GOC

13310 Pathogen[ Q2Q067] interacts with 1 human partners:{O96028}

13311 Pathogen[ P0C214] interacts with 1 human partners:{O96028}

13312 Pathogen[ P03346] interacts with 1 human partners:{O96028}

13313 Pathogen[ Q85601] interacts with 1 human partners:{O96028}

13314 Pathogen[ P0C206] interacts with 1 human partners:{O96028}

13315 Pathogen[ P03363] interacts with 1 human partners:{O96028}

13316 [Cluster 2130]GO:0032872+P biological\_process [name] regulation of stress-activated MAPK cascade [def] "Any process that modulates the frequency, rate or extent of signal transduction mediated by the stress-activated MAPK cascade." [GOC

13317 Pathogen[ Q2Q067] interacts with 1 human partners:{Q06830}

13318 Pathogen[ P0C214] interacts with 1 human partners:{Q06830}

13319 Pathogen[ P03346] interacts with 2 human partners:{Q06830;Q14596}

13320 Pathogen[ Q85601] interacts with 2 human partners:{Q14596;Q06830}

13321 Pathogen[ P14079] interacts with 1 human partners:{Q14596}

13322 Pathogen[ P03410] interacts with 2 human partners:{Q14596;Q06830}

13323 Pathogen[ P0C206] interacts with 2 human partners:{Q14596;Q06830}

13324 [Cluster 2131]GO:0090311+P biological\_process [name] regulation of protein deacetylation [def] "Any process that modulates the rate, frequency, or extent of protein deacetylation, the removal of an acetyl group from a protein amino acid. An acetyl group is CH3CO-, derived from acetic [ethanoic] acid." [GOC

13325 Pathogen[ Q2Q067] interacts with 1 human partners:{Q7Z699}

13326 Pathogen[ P0C214] interacts with 1 human partners:{Q7Z699}

13327 Pathogen[ P03346] interacts with 1 human partners:{Q7Z699}

13328 Pathogen[ Q85601] interacts with 1 human partners:{Q7Z699}

13329 Pathogen[ P14079] interacts with 1 human partners:{Q7Z699}

13330 Pathogen[ P03410] interacts with 1 human partners:{Q7Z699}

13331 Pathogen[ P0C206] interacts with 1 human partners:{Q7Z699}

13332 Pathogen[ P03363] interacts with 1 human partners:{Q7Z699}

13333 [Cluster 2132]GO:0051561+P biological\_process [name] elevation of mitochondrial calcium ion concentration [def] "Any process that increases the concentration of calcium ions in mitochondria." [GOC

13334 Pathogen[ P14079] interacts with 1 human partners:{Q8NE86}

13335 Pathogen[ P03410] interacts with 1 human partners:{Q8NE86}

13336 Pathogen[ P0C206] interacts with 1 human partners:{Q8NE86}

13337 [Cluster 2133]GO:2000821+P biological\_process [name] regulation of grooming behavior [def] "Any process that modulates the frequency, rate or extent of grooming behavior." [GOC

13338 Pathogen[ Q2Q067] interacts with 1 human partners:{P78352}

13339 Pathogen[ P0C214] interacts with 1 human partners:{P78352}

13340 Pathogen[ P03346] interacts with 1 human partners:{P78352}

13341 Pathogen[ Q85601] interacts with 1 human partners:{P78352}

13342 Pathogen[ P03383] interacts with 1 human partners:{P78352}

13343 Pathogen[ P03410] interacts with 1 human partners:{P78352}

13344 Pathogen[ P14075] interacts with 1 human partners:{P78352}

13345 Pathogen[ P0C206] interacts with 1 human partners:{P78352}

13346 Pathogen[ P03363] interacts with 1 human partners:{P78352}

13347 [Cluster 2134]GO:0035280+P biological\_process [name] miRNA loading onto RISC involved in gene silencing by miRNA [def] "The transfer of a microRNA (miRNA) strand from a miRNA

13348 Pathogen[ Q2Q067] interacts with 1 human partners:{Q15633}

13349 Pathogen[ P0C214] interacts with 1 human partners:{Q15633}

13350 Pathogen[ P03346] interacts with 1 human partners:{Q15633}

13351 Pathogen[ Q85601] interacts with 1 human partners:{Q15633}

13352 Pathogen[ P03383] interacts with 1 human partners:{Q15633}

13353 Pathogen[ P03410] interacts with 1 human partners:{Q15633}

13354 Pathogen[ P14075] interacts with 1 human partners:{Q15633}

13355 Pathogen[ P0C206] interacts with 1 human partners:{Q15633}

13356 Pathogen[ P03363] interacts with 1 human partners:{Q15633}

13357 [Cluster 2135]GO:0071474+P biological\_process [name] cellular hyperosmotic response [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of detection of, or exposure to, a hyperosmotic environment, i.e. an environment with a higher concentration of solutes than the organism or cell." [GOC

13358 Pathogen[ P14079] interacts with 1 human partners:{Q6JBY9}

13359 Pathogen[ P03410] interacts with 1 human partners:{Q6JBY9}

13360 Pathogen[ P14075] interacts with 1 human partners:{Q6JBY9}

13361 Pathogen[ P0C206] interacts with 1 human partners:{Q6JBY9}

13362 [Cluster 2136]GO:0033194+P biological\_process [name] response to hydroperoxide [def] "Any process that results in a change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a hydroperoxide stimulus. Hydroperoxides are monosubstitution products of hydrogen peroxide, HOOH." [CHEBI

13363 Pathogen[ P14079] interacts with 1 human partners:{P03886}

13364 Pathogen[ P03410] interacts with 1 human partners:{P03886}

13365 [Cluster 2137]GO:0090003+P biological\_process [name] regulation of establishment of protein localization in plasma membrane [def] "Any process that modulates the frequency, rate or extent of the directed movement of a protein to a specific location in the plasma membrane." [GOC

13366 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UKG1}

13367 Pathogen[ P0C214] interacts with 1 human partners:{Q9UKG1}

13368 Pathogen[ P03346] interacts with 1 human partners:{Q9UKG1}

13369 Pathogen[ Q85601] interacts with 1 human partners:{Q9UKG1}

13370 Pathogen[ P14079] interacts with 1 human partners:{Q9UKG1}

13371 Pathogen[ P03410] interacts with 1 human partners:{Q9UKG1}

13372 Pathogen[ P0C206] interacts with 1 human partners:{Q9UKG1}

13373 Pathogen[ P03363] interacts with 1 human partners:{Q9UKG1}

13374 [Cluster 2138]GO:0006691+P biological\_process [name] leukotriene metabolic process [def] "The chemical reactions and pathways involving leukotriene, a pharmacologically active substance derived from a polyunsaturated fatty acid, such as arachidonic acid." [GOC

13375 Pathogen[ Q2Q067] interacts with 1 human partners:{P09917}

13376 Pathogen[ P0C214] interacts with 2 human partners:{P09917;P18054}

13377 Pathogen[ P03346] interacts with 2 human partners:{P18054;P09917}

13378 Pathogen[ Q85601] interacts with 1 human partners:{P09917}

13379 Pathogen[ P14079] interacts with 3 human partners:{Q16873;P20292;P09917}

13380 Pathogen[ P03410] interacts with 3 human partners:{Q16873;P09917;P20292}

13381 Pathogen[ P0C206] interacts with 2 human partners:{P09917;P20292}

13382 [Cluster 2139]GO:0046903+P biological\_process [name] secretion [def] "The controlled release of a substance by a cell, a group of cells, or a tissue." [GOC

13383 Pathogen[ Q2Q067] interacts with 1 human partners:{P55327}

13384 Pathogen[ P0C214] interacts with 1 human partners:{P55327}

13385 Pathogen[ P03346] interacts with 2 human partners:{P55327;Q70J99}

13386 Pathogen[ P14079] interacts with 1 human partners:{P55327}

13387 Pathogen[ P03410] interacts with 2 human partners:{Q70J99;P55327}

13388 Pathogen[ P14075] interacts with 1 human partners:{P55327}

13389 Pathogen[ P0C206] interacts with 1 human partners:{P55327}

13390 Pathogen[ P03363] interacts with 1 human partners:{P55327}

13391 [Cluster 2140]GO:0021546+P biological\_process [name] rhombomere development [def] "The process whose specific outcome is the progression of the rhombomere over time, from its formation to the mature structure. Rhombomeres are transverse segments of the developing rhombencephalon. Rhombomeres are lineage restricted, express different genes from one another, and adopt different developmental fates." [GO\_REF

13392 Pathogen[ Q2Q067] interacts with 2 human partners:{P14651;P14653}

13393 Pathogen[ P0C214] interacts with 2 human partners:{P14651;P14653}

13394 Pathogen[ P03346] interacts with 2 human partners:{P14653;P14651}

13395 Pathogen[ Q85601] interacts with 2 human partners:{P14653;P14651}

13396 Pathogen[ P14079] interacts with 1 human partners:{P14651}

13397 Pathogen[ P03383] interacts with 1 human partners:{P14651}

13398 Pathogen[ P03410] interacts with 1 human partners:{P14651}

13399 Pathogen[ P0C206] interacts with 2 human partners:{P14651;P14653}

13400 Pathogen[ P03363] interacts with 2 human partners:{P14651;P14653}

13401 [Cluster 2141]GO:0008209+P biological\_process [name] androgen metabolic process

[def] "The chemical reactions and pathways involving androgens, C19 steroid hormones that can stimulate the development of male sexual characteristics." [ISBN

13402 Pathogen[ P03346] interacts with 1 human partners:{Q9HB21}

13403 Pathogen[ Q85601] interacts with 1 human partners:{Q9HB21}

13404 Pathogen[ P14079] interacts with 1 human partners:{Q9HB21}

13405 Pathogen[ P03410] interacts with 1 human partners:{Q9HB21}

13406 Pathogen[ P0C206] interacts with 1 human partners:{Q9HB21}

13407 [Cluster 2142]GO:0032874+P biological\_process [name] positive regulation of stress-activated MAPK cascade [def] "Any process that activates or increases the frequency, rate or extent of signal transduction mediated by the stress-activated MAPK cascade." [GOC

13408 Pathogen[ P14079] interacts with 1 human partners:{Q9Y239}

13409 Pathogen[ P03410] interacts with 1 human partners:{Q9Y239}

13410 [Cluster 2143]GO:0045019+P biological\_process [name] negative regulation of nitric oxide biosynthetic process [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the chemical reactions and pathways resulting in the formation of nitric oxide." [GOC

13411 Pathogen[ P14079] interacts with 1 human partners:{P06280}

13412 [Cluster 2144]GO:0010872+P biological\_process [name] regulation of cholesterol esterification [def] "Any process that modulates the frequency, rate or extent of cholesterol esterification. Cholesterol esterification is the lipid modification process in which a sterol ester is formed by the combination of a carboxylic acid (often a fatty acid) and cholesterol. In the blood this process is associated with the conversion of free cholesterol into cholesteryl ester, which is then sequestered into the core of a lipoprotein particle." [GOC

13413 Pathogen[ P14079] interacts with 1 human partners:{Q6IAA8}

13414 Pathogen[ P03410] interacts with 1 human partners:{Q6IAA8}

13415 [Cluster 2145]GO:0009308+P biological\_process [name] amine metabolic process [def] "The chemical reactions and pathways involving any organic compound that is weakly basic in character and contains an amino or a substituted amino group, as carried out by individual cells. Amines are called primary, secondary, or tertiary according to whether one, two, or three carbon atoms are attached to the nitrogen atom." [GOC

13416 Pathogen[ P03346] interacts with 1 human partners:{O95050}

13417 Pathogen[ P14079] interacts with 1 human partners:{O95050}

13418 Pathogen[ P03410] interacts with 1 human partners:{O95050}

13419 Pathogen[ P03363] interacts with 1 human partners:{O95050}

13420 [Cluster 2146]GO:0035491+P biological\_process [name] positive regulation of leukotriene production involved in inflammatory response [def] "Any process that increases the rate, frequency or extent of the synthesis or release of any leukotriene following a stimulus as part of an inflammatory response." [GOC

13421 Pathogen[ P0C214] interacts with 1 human partners:{P05121}

13422 Pathogen[ Q85601] interacts with 1 human partners:{P05121}

13423 Pathogen[ P03410] interacts with 1 human partners:{P05121}

13424 Pathogen[ P0C206] interacts with 1 human partners:{P05121}

13425 [Cluster 2147]GO:0071418+P biological\_process [name] cellular response to amine stimulus [def] "Any process that results in a change in state or activity of a cell (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an amine stimulus. An amine is a compound formally derived from ammonia by replacing one, two or three hydrogen atoms by hydrocarbyl groups." [GOC

13426 Pathogen[ Q2Q067] interacts with 2 human partners:{P10746;P08397}

13427 Pathogen[ P0C214] interacts with 2 human partners:{P10746;P08397}

13428 Pathogen[ P03346] interacts with 1 human partners:{P10746}

13429 Pathogen[ Q85601] interacts with 2 human partners:{P10746;P08397}

13430 Pathogen[ P14079] interacts with 2 human partners:{P10746;P08397}

13431 Pathogen[ P03383] interacts with 1 human partners:{P08397}

13432 Pathogen[ P03410] interacts with 2 human partners:{P08397;P10746}

13433 Pathogen[ P14075] interacts with 1 human partners:{P08397}

13434 Pathogen[ P0C206] interacts with 2 human partners:{P10746;P08397}

13435 [Cluster 2148]GO:0030497+P biological\_process [name] fatty acid elongation [def] "The elongation of a fatty acid chain by the sequential addition of two-carbon units." [ISBN

13436 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9H5J4}

13437 Pathogen[ P03346] interacts with 1 human partners:{Q9H5J4}

13438 Pathogen[ Q85601] interacts with 1 human partners:{Q9H5J4}

13439 Pathogen[ P14079] interacts with 1 human partners:{Q9H5J4}

13440 Pathogen[ P03383] interacts with 1 human partners:{Q9H5J4}

13441 Pathogen[ P03410] interacts with 1 human partners:{Q9H5J4}

13442 Pathogen[ P14075] interacts with 1 human partners:{Q9H5J4}

13443 Pathogen[ P0C206] interacts with 1 human partners:{Q9H5J4}

13444 Pathogen[ P03363] interacts with 1 human partners:{Q9H5J4}

13445 [Cluster 2149]GO:0048561+P biological\_process [name] establishment of organ orientation [def] "The process that determines the orientation of an organ or tissue with reference to an axis." [GOC

13446 Pathogen[ P03346] interacts with 1 human partners:{P78413}

13447 Pathogen[ P0C206] interacts with 1 human partners:{P78413}

13448 Pathogen[ P03363] interacts with 1 human partners:{P78413}

13449 [Cluster 2150]GO:0050909+P biological\_process [name] sensory perception of taste [def] "The series of events required for an organism to receive a gustatory stimulus, convert it to a molecular signal, and recognize and characterize the signal. Gustation involves the direct detection of chemical composition, usually through contact with chemoreceptor cells. This is a neurological process." [GOC  
13450 Pathogen[ P14079] interacts with 1 human partners:{Q9NYV7}  
13451 [Cluster 2151]GO:0060627+P biological\_process [name] regulation of vesicle-mediated transport [def] "Any process that modulates the rate, frequency, or extent of vesicle-mediated transport, the directed movement of substances, either within a vesicle or in the vesicle membrane, into, out of or within a cell." [GOC  
13452 Pathogen[ Q2Q067] interacts with 1 human partners:{O14786}  
13453 Pathogen[ P0C214] interacts with 1 human partners:{O14786}  
13454 Pathogen[ P03346] interacts with 1 human partners:{O14786}  
13455 Pathogen[ Q85601] interacts with 1 human partners:{O14786}  
13456 Pathogen[ P03410] interacts with 1 human partners:{O14786}  
13457 Pathogen[ P0C206] interacts with 1 human partners:{O14786}  
13458 Pathogen[ P03363] interacts with 1 human partners:{O14786}  
13459 [Cluster 2152]GO:0014916+P biological\_process [name] regulation of lung blood pressure [def] "The process that modulates the force with which blood travels through the lungs. The process is controlled by a balance of processes that increase pressure and decrease pressure." [GOC  
13460 Pathogen[ Q2Q067] interacts with 1 human partners:{P30793}  
13461 Pathogen[ P0C214] interacts with 1 human partners:{P30793}  
13462 Pathogen[ Q85601] interacts with 1 human partners:{P30793}  
13463 Pathogen[ P14079] interacts with 1 human partners:{P30793}  
13464 Pathogen[ P03410] interacts with 1 human partners:{P30793}  
13465 Pathogen[ P14075] interacts with 1 human partners:{P30793}  
13466 Pathogen[ P0C206] interacts with 1 human partners:{P30793}  
13467 [Cluster 2153]GO:0032680+P biological\_process [name] regulation of tumor necrosis factor production [def] "Any process that modulates the frequency, rate, or extent of tumor necrosis factor production." [GOC  
13468 Pathogen[ Q2Q067] interacts with 1 human partners:{P26651}  
13469 Pathogen[ P0C214] interacts with 1 human partners:{P26651}  
13470 Pathogen[ P03346] interacts with 1 human partners:{P26651}  
13471 Pathogen[ Q85601] interacts with 1 human partners:{P26651}  
13472 Pathogen[ P03383] interacts with 1 human partners:{P26651}  
13473 Pathogen[ P03410] interacts with 1 human partners:{P26651}  
13474 Pathogen[ P14075] interacts with 1 human partners:{P26651}  
13475 Pathogen[ P0C206] interacts with 1 human partners:{P26651}  
13476 Pathogen[ P03363] interacts with 1 human partners:{P26651}  
13477 [Cluster 2154]GO:1900169+P  
13478 Pathogen[ P03346] interacts with 1 human partners:{Q12802}  
13479 Pathogen[ P14079] interacts with 1 human partners:{Q12802}  
13480 [Cluster 2155]GO:0030033+P biological\_process [name] microvillus assembly [def] "Formation of a microvillus, a thin cylindrical membrane-covered projection on the surface of a cell." [GOC  
13481 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13887}  
13482 Pathogen[ P0C214] interacts with 1 human partners:{Q13887}  
13483 Pathogen[ P03346] interacts with 1 human partners:{Q13887}  
13484 Pathogen[ Q85601] interacts with 1 human partners:{Q13887}  
13485 Pathogen[ P14079] interacts with 1 human partners:{P35241}  
13486 Pathogen[ P03410] interacts with 1 human partners:{P35241}  
13487 Pathogen[ P0C206] interacts with 1 human partners:{Q13887}  
13488 [Cluster 2156]GO:0055091+P biological\_process [name] phospholipid homeostasis [def] "Any process involved in the maintenance of an internal steady state of phospholipid within an organism or cell." [GOC  
13489 Pathogen[ P0C214] interacts with 1 human partners:{Q99698}  
13490 Pathogen[ P03346] interacts with 1 human partners:{Q99698}  
13491 Pathogen[ Q85601] interacts with 1 human partners:{Q99698}  
13492 Pathogen[ P14079] interacts with 1 human partners:{Q99698}  
13493 Pathogen[ P03410] interacts with 1 human partners:{Q99698}  
13494 Pathogen[ P0C206] interacts with 1 human partners:{Q99698}  
13495 Pathogen[ P03363] interacts with 1 human partners:{Q99698}  
13496 [Cluster 2157]GO:0022007+P biological\_process [name] convergent extension involved in neural plate elongation [def] "The process of directed cell movement in the neural plate resulting in tissue elongation via intercalation of adjacent cells in an epithelial sheet at the midline, leading to narrowing and lengthening of the neural plate." [GO\_REF  
13497 Pathogen[ Q2Q067] interacts with 1 human partners:{O14641}  
13498 Pathogen[ P0C214] interacts with 1 human partners:{O14641}  
13499 Pathogen[ P03346] interacts with 1 human partners:{O14641}  
13500 Pathogen[ Q85601] interacts with 1 human partners:{O14641}  
13501 Pathogen[ P14079] interacts with 1 human partners:{O14641}  
13502 Pathogen[ P03383] interacts with 1 human partners:{O14641}  
13503 Pathogen[ P03410] interacts with 1 human partners:{O14641}  
13504 Pathogen[ P14075] interacts with 1 human partners:{O14641}  
13505 Pathogen[ P03363] interacts with 1 human partners:{O14641}

13506 [Cluster 2158]GO:0048483+P biological\_process [name] autonomic nervous system development [def] "The process whose specific outcome is the progression of the autonomic nervous system over time, from its formation to the mature structure. The autonomic nervous system is composed of neurons that are not under conscious control, and is comprised of two antagonistic components, the sympathetic and parasympathetic nervous systems. The autonomic nervous system regulates key functions including the activity of the cardiac (heart) muscle, smooth muscles (e.g. of the gut), and glands." [FMA  
13507 Pathogen[ P03346] interacts with 1 human partners:{P52951}  
13508 Pathogen[ P14079] interacts with 1 human partners:{P81277}  
13509 Pathogen[ P03410] interacts with 1 human partners:{P81277}  
13510 Pathogen[ P03363] interacts with 1 human partners:{P52951}  
13511 [Cluster 2159]GO:0042135+P biological\_process [name] neurotransmitter catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of any of a group of substances that are released on excitation from the axon terminal of a presynaptic neuron of the central or peripheral nervous system and travel across the synaptic cleft to either excite or inhibit the target cell." [CHEBI  
13512 Pathogen[ P03346] interacts with 1 human partners:{Q9Y215}  
13513 Pathogen[ P03410] interacts with 1 human partners:{Q9Y215}  
13514 Pathogen[ P03363] interacts with 1 human partners:{Q9Y215}  
13515 [Cluster 2160]GO:0048069+P biological\_process [name] eye pigmentation [def] "Establishment of a pattern of pigment in the eye of an organism." [GOC  
13516 Pathogen[ P14079] interacts with 1 human partners:{Q92902}  
13517 Pathogen[ P03410] interacts with 1 human partners:{Q92902}  
13518 Pathogen[ P03363] interacts with 1 human partners:{Q92902}  
13519 [Cluster 2161]GO:0050804+P biological\_process [name] regulation of synaptic transmission [def] "Any process that modulates the frequency or rate of synaptic transmission, the process of communication from a neuron to a target (neuron, muscle, or secretory cell) across a synapse." [GOC  
13520 Pathogen[ Q2Q067] interacts with 1 human partners:{Q08209}  
13521 Pathogen[ P0C214] interacts with 1 human partners:{Q08209}  
13522 Pathogen[ P03346] interacts with 1 human partners:{Q08209}  
13523 Pathogen[ Q85601] interacts with 1 human partners:{Q08209}  
13524 Pathogen[ P14079] interacts with 1 human partners:{Q08209}  
13525 Pathogen[ P03410] interacts with 1 human partners:{Q08209}  
13526 Pathogen[ P0C206] interacts with 1 human partners:{Q08209}  
13527 [Cluster 2162]GO:0060025+P biological\_process [name] regulation of synaptic activity [def] "Any process that modulates the frequency, rate or extent of synaptic activity, the controlled release of neurotransmitters into the synaptic cleft and their subsequent detection by a postsynaptic cell." [GOC  
13528 Pathogen[ P14079] interacts with 1 human partners:{Q06413}  
13529 [Cluster 2163]GO:0032792+P biological\_process [name] negative regulation of CREB transcription factor activity [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of the activity of the transcription factor CREB." [GOC  
13530 Pathogen[ Q2Q067] interacts with 1 human partners:{P35548}  
13531 Pathogen[ P0C214] interacts with 1 human partners:{P35548}  
13532 Pathogen[ P03346] interacts with 1 human partners:{P35548}  
13533 Pathogen[ Q85601] interacts with 1 human partners:{P35548}  
13534 Pathogen[ P03383] interacts with 1 human partners:{P35548}  
13535 Pathogen[ P03410] interacts with 1 human partners:{P35548}  
13536 Pathogen[ P14075] interacts with 1 human partners:{P35548}  
13537 Pathogen[ P0C206] interacts with 1 human partners:{P35548}  
13538 Pathogen[ P03363] interacts with 1 human partners:{P35548}  
13539 [Cluster 2164]GO:0016320+P biological\_process [name] endoplasmic reticulum membrane fusion [def] "The joining of 2 or more lipid bilayer membranes that surround the endoplasmic reticulum." [GOC  
13540 Pathogen[ P03346] interacts with 1 human partners:{Q12981}  
13541 Pathogen[ Q85601] interacts with 1 human partners:{Q12981}  
13542 Pathogen[ P14079] interacts with 1 human partners:{Q12981}  
13543 Pathogen[ P03410] interacts with 1 human partners:{Q12981}  
13544 Pathogen[ P0C206] interacts with 1 human partners:{Q12981}  
13545 [Cluster 2165]GO:0070247+P biological\_process [name] regulation of natural killer cell apoptosis [def] "Any process that modulates the occurrence or rate of natural killer cell death by apoptosis." [GOC  
13546 Pathogen[ P0C214] interacts with 1 human partners:{Q96CA5}  
13547 Pathogen[ P03346] interacts with 1 human partners:{Q96CA5}  
13548 Pathogen[ Q85601] interacts with 1 human partners:{Q96CA5}  
13549 Pathogen[ P0C206] interacts with 1 human partners:{Q96CA5}  
13550 Pathogen[ P03363] interacts with 1 human partners:{Q96CA5}  
13551 [Cluster 2166]GO:0051068+P biological\_process [name] dihydrolipoamide metabolic process [def] "The chemical reactions and pathways involving dihydrolipoamide, the reduced form of lipoamide, produced as an intermediate in the reactions in which lipoamide acts as a cofactor." [ISBN  
13552 Pathogen[ P0C214] interacts with 1 human partners:{P09622}  
13553 [Cluster 2167]GO:0000957+P biological\_process [name] mitochondrial RNA catabolic process [def] "The chemical reactions and pathways resulting in the breakdown of RNA

transcribed from the mitochondrial genome and occurring in the mitochondrion." [GOC

13554 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8TCS8}

13555 Pathogen[ POC214] interacts with 1 human partners:{Q8TCS8}

13556 Pathogen[ P03346] interacts with 1 human partners:{Q8TCS8}

13557 Pathogen[ Q85601] interacts with 1 human partners:{Q8TCS8}

13558 Pathogen[ P14079] interacts with 1 human partners:{Q8TCS8}

13559 Pathogen[ P03383] interacts with 1 human partners:{Q8TCS8}

13560 Pathogen[ P03410] interacts with 1 human partners:{Q8TCS8}

13561 Pathogen[ P14075] interacts with 1 human partners:{Q8TCS8}

13562 Pathogen[ POC206] interacts with 1 human partners:{Q8TCS8}

13563 [Cluster 2168]GO:0046167+P biological\_process [name] glycerol-3-phosphate biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of glycerol-3-phosphate, a phosphoric monoester of glycerol." [GOC

13564 Pathogen[ Q2Q067] interacts with 1 human partners:{P32189}

13565 Pathogen[ POC214] interacts with 1 human partners:{P32189}

13566 Pathogen[ P03346] interacts with 1 human partners:{P32189}

13567 Pathogen[ Q85601] interacts with 1 human partners:{P32189}

13568 Pathogen[ P14079] interacts with 1 human partners:{P32189}

13569 Pathogen[ P03383] interacts with 1 human partners:{P32189}

13570 Pathogen[ P03410] interacts with 1 human partners:{P32189}

13571 Pathogen[ P14075] interacts with 1 human partners:{P32189}

13572 Pathogen[ POC206] interacts with 1 human partners:{P32189}

13573 [Cluster 2169]GO:0072177+P biological\_process [name] mesonephric duct development [def] "The process whose specific outcome is the progression of a mesonephric duct over time, from its initial formation to a mature structure. A mesonephric duct is a tube drains the mesonephros." [GOC

13574 Pathogen[ Q2Q067] interacts with 1 human partners:{P35680}

13575 Pathogen[ P03346] interacts with 1 human partners:{P35680}

13576 Pathogen[ Q85601] interacts with 1 human partners:{P35680}

13577 Pathogen[ P14079] interacts with 1 human partners:{P35680}

13578 Pathogen[ P03410] interacts with 1 human partners:{P35680}

13579 Pathogen[ POC206] interacts with 1 human partners:{P35680}

13580 [Cluster 2170]GO:0006235+P biological\_process [name] dTTP biosynthetic process [def] "The chemical reactions and pathways resulting in the formation of dTTP, deoxyribosylthymine triphosphate." [ISBN

13581 Pathogen[ Q2Q067] interacts with 2 human partners:{P62380;P04818}

13582 Pathogen[ POC214] interacts with 3 human partners:{P04818;P23919;P62380}

13583 Pathogen[ P03346] interacts with 1 human partners:{P62380}

13584 Pathogen[ Q85601] interacts with 1 human partners:{P62380}

13585 Pathogen[ P14079] interacts with 3 human partners:{P62380;P23919;P04818}

13586 Pathogen[ P03410] interacts with 3 human partners:{P62380;P23919;P04818}

13587 Pathogen[ POC206] interacts with 2 human partners:{P62380;P04818}

13588 Pathogen[ P03363] interacts with 1 human partners:{P62380}

13589 [Cluster 2171]GO:0070166+P biological\_process [name] enamel mineralization [def] "The process in which calcium salts, mainly carbonated hydroxyapatite, are deposited in tooth enamel." [GOC

13590 Pathogen[ Q2Q067] interacts with 1 human partners:{P35548}

13591 Pathogen[ POC214] interacts with 1 human partners:{P35548}

13592 Pathogen[ P03346] interacts with 1 human partners:{P35548}

13593 Pathogen[ Q85601] interacts with 1 human partners:{P35548}

13594 Pathogen[ P03383] interacts with 1 human partners:{P35548}

13595 Pathogen[ P03410] interacts with 1 human partners:{P35548}

13596 Pathogen[ P14075] interacts with 1 human partners:{P35548}

13597 Pathogen[ POC206] interacts with 1 human partners:{P35548}

13598 Pathogen[ P03363] interacts with 1 human partners:{P35548}

13599 [Cluster 2172]GO:0048550+P biological\_process [name] negative regulation of pinocytosis [def] "Any process that stops, prevents, or reduces the frequency, rate or extent of pinocytosis. Pinocytosis is the process in which cells take in liquid material from their external environment\_ literally 'cell drinking'. Liquid is enclosed in vesicles, formed by invagination of the plasma membrane. These vesicles then move into the cell and pass their contents to endosomes." [GOC

13600 Pathogen[ Q2Q067] interacts with 1 human partners:{P55055}

13601 Pathogen[ P03346] interacts with 1 human partners:{P55055}

13602 Pathogen[ Q85601] interacts with 1 human partners:{P55055}

13603 Pathogen[ P14079] interacts with 1 human partners:{P55055}

13604 Pathogen[ POC206] interacts with 1 human partners:{P55055}

13605 [Cluster 2173]GO:0040031+P biological\_process [name] snRNA modification [def] "The covalent alteration of one or more nucleotides within snRNA, resulting in a change in the properties of the snRNA." [GOC

13606 Pathogen[ P14079] interacts with 1 human partners:{Q7L2J0}

13607 Pathogen[ P03410] interacts with 1 human partners:{Q7L2J0}

13608 Pathogen[ POC206] interacts with 1 human partners:{Q7L2J0}

13609 [Cluster 2174]GO:0060968+P biological\_process [name] regulation of gene silencing [def] "Any process that modulates the rate, frequency, or extent of gene silencing, the transcriptional or post-transcriptional process carried out at the cellular level that results in long-term gene inactivation." [GOC



13610 Pathogen[ Q2Q067] interacts with 1 human partners:{P24941}  
13611 Pathogen[ P0C214] interacts with 1 human partners:{P24941}  
13612 Pathogen[ P03346] interacts with 1 human partners:{P24941}  
13613 Pathogen[ Q85601] interacts with 1 human partners:{P24941}  
13614 Pathogen[ P03383] interacts with 1 human partners:{P24941}  
13615 Pathogen[ P03410] interacts with 1 human partners:{P24941}  
13616 Pathogen[ P14075] interacts with 1 human partners:{P24941}  
13617 Pathogen[ P0C206] interacts with 1 human partners:{P24941}  
13618 Pathogen[ P03363] interacts with 1 human partners:{P24941}  
13619

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1 [Section 11] molecular functions that PARTIAL HTLV viruses may interfere with
2
3
4 [Cluster 1]GO:0004758+F molecular_function [name] serine C-palmitoyltransferase activity
[def] "Catalysis of the reaction
5 Pathogen[ P14079] interacts with 2 human partners:{Q8NFR3;Q969W0}
6 Pathogen[ P03410] interacts with 2 human partners:{Q969W0;Q8NFR3}
7 Pathogen[ P14075] interacts with 1 human partners:{Q969W0}
8 Pathogen[ P0C206] interacts with 2 human partners:{Q8NFR3;Q969W0}
9 [Cluster 2]GO:0016638+F molecular_function [name] oxidoreductase activity, acting on the
CH-NH2 group of donors [def] "Catalysis of an oxidation-reduction (redox) reaction in
which a CH-NH2 group acts as a hydrogen or electron donor and reduces a hydrogen or
electron acceptor." [GOC
10 Pathogen[ P14079] interacts with 1 human partners:{Q9NVS9}
11 Pathogen[ P03410] interacts with 1 human partners:{Q9NVS9}
12 Pathogen[ P14075] interacts with 1 human partners:{Q9NVS9}
13 [Cluster 3]GO:0018773+F molecular_function [name] acetylpyruvate hydrolase activity
[def] "Catalysis of the reaction
14 Pathogen[ P0C214] interacts with 1 human partners:{Q6P587}
15 Pathogen[ P14079] interacts with 1 human partners:{Q6P587}
16 Pathogen[ P03410] interacts with 1 human partners:{Q6P587}
17 Pathogen[ P0C206] interacts with 1 human partners:{Q6P587}
18 [Cluster 4]GO:0042903+F molecular_function [name] tubulin deacetylase activity [def]
"Catalysis of the reaction
19 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8IXJ6}
20 Pathogen[ P0C214] interacts with 1 human partners:{Q8IXJ6}
21 Pathogen[ P03346] interacts with 1 human partners:{Q8IXJ6}
22 Pathogen[ Q85601] interacts with 1 human partners:{Q8IXJ6}
23 Pathogen[ P14079] interacts with 1 human partners:{Q8IXJ6}
24 Pathogen[ P03410] interacts with 1 human partners:{Q8IXJ6}
25 Pathogen[ P0C206] interacts with 1 human partners:{Q8IXJ6}
26 [Cluster 5]GO:0004794+F molecular_function [name] L-threonine ammonia-lyase activity
[def] "Catalysis of the reaction
27 Pathogen[ P03346] interacts with 1 human partners:{P20132}
28 Pathogen[ P14079] interacts with 1 human partners:{P20132}
29 Pathogen[ P03410] interacts with 1 human partners:{P20132}
30 Pathogen[ P0C206] interacts with 1 human partners:{P20132}
31 [Cluster 6]GO:0008296+F molecular_function [name] 3'-5'-exodeoxyribonuclease activity
[def] "Catalysis of the sequential cleavage of mononucleotides from a free 3' terminus of
a DNA molecule." [GOC
32 Pathogen[ P14079] interacts with 2 human partners:{Q9BQ50;Q9NSU2}
33 Pathogen[ P03410] interacts with 2 human partners:{Q9BQ50;Q9NSU2}
34 Pathogen[ P0C206] interacts with 1 human partners:{Q9NSU2}
35 Pathogen[ P03363] interacts with 1 human partners:{Q9BQ50}
36 [Cluster 7]GO:0004611+F molecular_function [name] phosphoenolpyruvate carboxykinase
activity [def] "Catalysis of the reaction
37 Pathogen[ P0C214] interacts with 2 human partners:{P35558;Q16822}
38 Pathogen[ P03383] interacts with 1 human partners:{Q16822}
39 Pathogen[ P03410] interacts with 1 human partners:{Q16822}
40 Pathogen[ P14075] interacts with 1 human partners:{Q16822}
41 Pathogen[ P0C206] interacts with 1 human partners:{Q16822}
42 [Cluster 8]GO:2001069+F molecular_function [name] glycogen binding [def] "Interacting
selectively and non-covalently with glycogen." [GOC
43 Pathogen[ P14079] interacts with 1 human partners:{B7ZBB8}
44 Pathogen[ P03410] interacts with 1 human partners:{B7ZBB8}
45 Pathogen[ P0C206] interacts with 1 human partners:{B7ZBB8}
46 Pathogen[ P03363] interacts with 1 human partners:{B7ZBB8}
47 [Cluster 9]GO:0004146+F molecular_function [name] dihydrofolate reductase activity [def]
"Catalysis of the reaction
48 Pathogen[ P0C214] interacts with 2 human partners:{Q86XF0;P00374}
49 Pathogen[ P14079] interacts with 2 human partners:{Q86XF0;P00374}
50 Pathogen[ P03410] interacts with 2 human partners:{P00374;Q86XF0}
51 [Cluster 10]GO:0043295+F molecular_function [name] glutathione binding [def]
"Interacting selectively and non-covalently with glutathione_ a tripeptide composed of
the three amino acids cysteine, glutamic acid and glycine." [GOC
52 Pathogen[ P14079] interacts with 3 human partners:{Q16873;O43813;P10620}
53 Pathogen[ P03410] interacts with 1 human partners:{Q16873}
54 [Cluster 11]GO:0004798+F molecular_function [name] thymidylate kinase activity [def]
"Catalysis of the reaction
55 Pathogen[ P0C214] interacts with 1 human partners:{P23919}
56 Pathogen[ P14079] interacts with 1 human partners:{P23919}
57 Pathogen[ P03410] interacts with 1 human partners:{P23919}
58 [Cluster 12]GO:0003910+F molecular_function [name] DNA ligase (ATP) activity [def]
"Catalysis of the reaction
59 Pathogen[ P14079] interacts with 1 human partners:{P49917}
60 Pathogen[ P0C206] interacts with 2 human partners:{P49917;P49916}

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61 [Cluster 13]GO:0004060+F    molecular_function [name] arylamine N-acetyltransferase
    activity [def] "Catalysis of the reaction
62     Pathogen[ P0C214] interacts with 1 human partners:{Q16613}
63     Pathogen[ Q85601] interacts with 1 human partners:{Q16613}
64     Pathogen[ P14079] interacts with 1 human partners:{Q16613}
65     Pathogen[ P03383] interacts with 1 human partners:{Q16613}
66     Pathogen[ P03410] interacts with 1 human partners:{Q16613}
67     Pathogen[ P14075] interacts with 1 human partners:{Q16613}
68     Pathogen[ P0C206] interacts with 1 human partners:{Q16613}
69 [Cluster 14]GO:0044547+F
70     Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NS56}
71     Pathogen[ P0C214] interacts with 1 human partners:{Q9NS56}
72     Pathogen[ P03346] interacts with 1 human partners:{Q9NS56}
73     Pathogen[ Q85601] interacts with 1 human partners:{Q9NS56}
74     Pathogen[ P14079] interacts with 1 human partners:{Q9NS56}
75     Pathogen[ P0C206] interacts with 1 human partners:{Q9NS56}
76 [Cluster 15]GO:0043539+F    molecular_function [name] protein serine/threonine kinase
    activator activity [def] "Increases the activity of a protein serine/threonine kinase."
    [GOC
77     Pathogen[ P14079] interacts with 2 human partners:{O43597;Q15078}
78     Pathogen[ P03410] interacts with 1 human partners:{O43597}
79     Pathogen[ P0C206] interacts with 1 human partners:{O43597}
80 [Cluster 16]GO:0004850+F    molecular_function [name] uridine phosphorylase activity
    [def] "Catalysis of the reaction
81     Pathogen[ P0C214] interacts with 2 human partners:{O95045;Q16831}
82     Pathogen[ Q85601] interacts with 1 human partners:{O95045}
83     Pathogen[ P14079] interacts with 2 human partners:{Q16831;O95045}
84     Pathogen[ P03410] interacts with 2 human partners:{O95045;Q16831}
85     Pathogen[ P14075] interacts with 1 human partners:{O95045}
86     Pathogen[ P0C206] interacts with 2 human partners:{Q16831;O95045}
87 [Cluster 17]GO:0004408+F    molecular_function [name] holocytochrome-c synthase activity
    [def] "Catalysis of the reaction
88     Pathogen[ P0C214] interacts with 1 human partners:{P53701}
89     Pathogen[ P14079] interacts with 1 human partners:{P53701}
90     Pathogen[ P03410] interacts with 1 human partners:{P53701}
91     Pathogen[ P0C206] interacts with 1 human partners:{P53701}
92 [Cluster 18]GO:0018271+F    molecular_function [name] biotin-protein ligase activity
    [def] "Catalysis of the reaction
93     Pathogen[ P0C214] interacts with 1 human partners:{P50747}
94 [Cluster 19]GO:0004615+F    molecular_function [name] phosphomannomutase activity [def]
    "Catalysis of the reaction
95     Pathogen[ P0C214] interacts with 1 human partners:{O15305}
96     Pathogen[ P14079] interacts with 1 human partners:{O15305}
97     Pathogen[ P03410] interacts with 1 human partners:{O15305}
98 [Cluster 20]GO:0042834+F    molecular_function [name] peptidoglycan binding [def]
    "Interacting selectively and non-covalently, in a non-covalent manner, with
    peptidoglycan, any of a class of glycoconjugates found in bacterial cell walls." [GOC
99     Pathogen[ P14079] interacts with 1 human partners:{Q9Y239}
100    Pathogen[ P03410] interacts with 1 human partners:{Q9Y239}
101 [Cluster 21]GO:0017017+F    molecular_function [name] MAP kinase
    tyrosine/serine/threonine phosphatase activity [def] "Catalysis of the reaction
102    Pathogen[ Q2Q067] interacts with 1 human partners:{Q16829}
103    Pathogen[ P0C214] interacts with 1 human partners:{Q16829}
104    Pathogen[ P03346] interacts with 1 human partners:{Q16829}
105    Pathogen[ Q85601] interacts with 1 human partners:{Q16829}
106    Pathogen[ P14079] interacts with 1 human partners:{Q16829}
107    Pathogen[ P03410] interacts with 1 human partners:{Q16829}
108    Pathogen[ P0C206] interacts with 1 human partners:{Q16829}
109    Pathogen[ P03363] interacts with 1 human partners:{Q16829}
110 [Cluster 22]GO:0031697+F    molecular_function [name] beta-1 adrenergic receptor binding
    [def] "Interacting selectively and non-covalently with a beta-1 adrenergic receptor."
    [GOC
111    Pathogen[ Q2Q067] interacts with 1 human partners:{Q86UL8}
112    Pathogen[ P03346] interacts with 1 human partners:{Q86UL8}
113    Pathogen[ Q85601] interacts with 1 human partners:{Q86UL8}
114    Pathogen[ P14079] interacts with 1 human partners:{Q86UL8}
115    Pathogen[ P03410] interacts with 1 human partners:{Q86UL8}
116    Pathogen[ P0C206] interacts with 1 human partners:{Q86UL8}
117    Pathogen[ P03363] interacts with 1 human partners:{Q86UL8}
118 [Cluster 23]GO:0031005+F    molecular_function [name] filamin binding [def]
    "Interacting selectively and non-covalently with a filamin, any member of a family of
    high molecular mass cytoskeletal proteins that crosslink actin filaments to form networks
    and stress fibers. Filamins contain an amino-terminal alpha-actinin-like actin binding
    domain, which is followed by a rod-domain composed of 4 to 24 100-residue repetitive
    segments including a carboxy-terminal dimerization domain." [GOC
119    Pathogen[ P03346] interacts with 1 human partners:{O76041}

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120 Pathogen[ P14079] interacts with 2 human partners:{076041;Q8N5W9}

121 Pathogen[ P03410] interacts with 2 human partners:{076041;Q8N5W9}

122 Pathogen[ P14075] interacts with 1 human partners:{Q8N5W9}

123 Pathogen[ P0C206] interacts with 2 human partners:{076041;Q8N5W9}

124 Pathogen[ P03363] interacts with 1 human partners:{076041}

125 [Cluster 24]GO:0031267+F molecular\_function [name] small GTPase binding [def] "Interacting selectively and non-covalently with a small monomeric GTPase." [GOC

126 Pathogen[ P03346] interacts with 1 human partners:{P50542}

127 Pathogen[ P14079] interacts with 1 human partners:{P50542}

128 Pathogen[ P03410] interacts with 1 human partners:{P50542}

129 Pathogen[ P0C206] interacts with 1 human partners:{P50542}

130 [Cluster 25]GO:0016857+F molecular\_function [name] racemase and epimerase activity, acting on carbohydrates and derivatives [def] "Catalysis of a reaction that alters the configuration of one or more chiral centers in a carbohydrate molecule." [GOC

131 Pathogen[ P0C214] interacts with 1 human partners:{Q96AT9}

132 Pathogen[ P14079] interacts with 2 human partners:{094923;A2VDF0}

133 Pathogen[ P03410] interacts with 1 human partners:{A2VDF0}

134 Pathogen[ P0C206] interacts with 1 human partners:{A2VDF0}

135 [Cluster 26]GO:0016153+F molecular\_function [name] urocanate hydratase activity [def] "Catalysis of the reaction

136 Pathogen[ P14079] interacts with 1 human partners:{Q96N76}

137 Pathogen[ P03410] interacts with 1 human partners:{Q96N76}

138 [Cluster 27]GO:0005375+F molecular\_function [name] copper ion transmembrane transporter activity [def] "Catalysis of the transfer of copper (Cu) ions from one side of a membrane to the other." [GOC

139 Pathogen[ Q2Q067] interacts with 1 human partners:{014618}

140 Pathogen[ P0C214] interacts with 1 human partners:{014618}

141 Pathogen[ P03346] interacts with 1 human partners:{014618}

142 Pathogen[ Q85601] interacts with 1 human partners:{014618}

143 Pathogen[ P14079] interacts with 1 human partners:{014618}

144 Pathogen[ P03410] interacts with 1 human partners:{014618}

145 Pathogen[ P0C206] interacts with 1 human partners:{014618}

146 Pathogen[ P03363] interacts with 1 human partners:{014618}

147 [Cluster 28]GO:0016763+F molecular\_function [name] transferase activity, transferring pentosyl groups [def] "Catalysis of the transfer of a pentosyl group from one compound (donor) to another (acceptor)." [GOC

148 Pathogen[ P0C214] interacts with 4 human partners:{095045;Q16831;Q13126;Q15274}

149 Pathogen[ Q85601] interacts with 1 human partners:{095045}

150 Pathogen[ P14079] interacts with 3 human partners:{Q16831;095045;Q15274}

151 Pathogen[ P03410] interacts with 3 human partners:{095045;Q15274;Q16831}

152 Pathogen[ P14075] interacts with 1 human partners:{095045}

153 Pathogen[ P0C206] interacts with 3 human partners:{Q16831;095045;Q15274}

154 [Cluster 29]GO:0032453+F molecular\_function [name] histone demethylase activity (H3-K4 specific) [def] "Catalysis of the removal of a methyl group from lysine at position 4 of the histone H3 protein." [GOC

155 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9H6W3}

156 Pathogen[ P0C214] interacts with 1 human partners:{Q9H6W3}

157 Pathogen[ P03346] interacts with 2 human partners:{Q9UGL1;Q9H6W3}

158 Pathogen[ Q85601] interacts with 1 human partners:{Q9H6W3}

159 Pathogen[ P14079] interacts with 1 human partners:{Q9H6W3}

160 Pathogen[ P03383] interacts with 1 human partners:{Q9H6W3}

161 Pathogen[ P03410] interacts with 1 human partners:{Q9H6W3}

162 Pathogen[ P14075] interacts with 1 human partners:{Q9H6W3}

163 Pathogen[ P0C206] interacts with 1 human partners:{Q9H6W3}

164 [Cluster 30]GO:0004479+F molecular\_function [name] methionyl-tRNA formyltransferase activity [def] "Catalysis of the reaction

165 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96DP5}

166 Pathogen[ P0C214] interacts with 1 human partners:{Q96DP5}

167 Pathogen[ P03346] interacts with 1 human partners:{Q96DP5}

168 Pathogen[ P14079] interacts with 1 human partners:{Q96DP5}

169 Pathogen[ P03383] interacts with 1 human partners:{Q96DP5}

170 Pathogen[ P03410] interacts with 1 human partners:{Q96DP5}

171 Pathogen[ P14075] interacts with 1 human partners:{Q96DP5}

172 Pathogen[ P0C206] interacts with 1 human partners:{Q96DP5}

173 [Cluster 31]GO:0016247+F molecular\_function [name] channel regulator activity [def] "Modulates the activity of a channel. A channel catalyzes energy-independent facilitated diffusion, mediated by passage of a solute through a transmembrane aqueous pore or channel." [GOC

174 Pathogen[ Q2Q067] interacts with 1 human partners:{Q15599}

175 Pathogen[ P0C214] interacts with 1 human partners:{Q15599}

176 Pathogen[ P03346] interacts with 1 human partners:{Q15599}

177 Pathogen[ Q85601] interacts with 1 human partners:{Q15599}

178 Pathogen[ P14079] interacts with 1 human partners:{Q15599}

179 Pathogen[ P03410] interacts with 1 human partners:{Q15599}

180 Pathogen[ P0C206] interacts with 1 human partners:{Q15599}

181 Pathogen[ P03363] interacts with 1 human partners:{Q15599}

182 [Cluster 32]GO:0097177+F molecular\_function [name] mitochondrial ribosome binding  
[def] "Interacting selectively and non-covalently with any part of a mitochondrial  
ribosome, a ribosome found in the mitochondrion of a eukaryotic cell." [GOC  
183 Pathogen[ P14079] interacts with 1 human partners:{Q15070}  
184 Pathogen[ P03410] interacts with 1 human partners:{Q15070}  
185 Pathogen[ P14075] interacts with 1 human partners:{Q15070}  
186 Pathogen[ P0C206] interacts with 1 human partners:{Q15070}

187 [Cluster 33]GO:0003912+F molecular\_function [name] DNA nucleotidylexotransferase  
activity [def] "Catalysis of the reaction  
188 Pathogen[ Q2Q067] interacts with 2 human partners:{P04053;Q9NP87}  
189 Pathogen[ P0C214] interacts with 2 human partners:{P04053;Q9NP87}  
190 Pathogen[ P03346] interacts with 2 human partners:{P04053;Q9NP87}  
191 Pathogen[ Q85601] interacts with 2 human partners:{P04053;Q9NP87}  
192 Pathogen[ P14079] interacts with 2 human partners:{Q9NP87;P04053}  
193 Pathogen[ P03410] interacts with 2 human partners:{P04053;Q9NP87}  
194 Pathogen[ P0C206] interacts with 3 human partners:{P04053;Q6PIY2;Q9NP87}  
195 Pathogen[ P03363] interacts with 3 human partners:{Q6PIY2;P04053;Q9NP87}

196 [Cluster 34]GO:0016150+F molecular\_function [name] translation release factor  
activity, codon nonspecific [def] "A translation release factor that is not specific to  
particular codons\_ binds to guanine nucleotides." [ISBN  
197 Pathogen[ P0C214] interacts with 1 human partners:{Q14197}  
198 Pathogen[ P14079] interacts with 1 human partners:{Q14197}  
199 Pathogen[ P03410] interacts with 1 human partners:{Q14197}  
200 Pathogen[ P0C206] interacts with 1 human partners:{Q14197}

201 [Cluster 35]GO:0001227+F  
202 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NX63}  
203 Pathogen[ P0C214] interacts with 1 human partners:{Q9NX63}  
204 Pathogen[ P03346] interacts with 1 human partners:{Q9NX63}  
205 Pathogen[ Q85601] interacts with 1 human partners:{Q9NX63}  
206 Pathogen[ P03383] interacts with 1 human partners:{Q9NX63}  
207 Pathogen[ P03410] interacts with 1 human partners:{Q9NX63}  
208 Pathogen[ P14075] interacts with 1 human partners:{Q9NX63}  
209 Pathogen[ P0C206] interacts with 1 human partners:{Q9NX63}  
210 Pathogen[ P03363] interacts with 1 human partners:{Q9NX63}

211 [Cluster 36]GO:0004095+F molecular\_function [name] carnitine O-palmitoyltransferase  
activity [def] "Catalysis of the reaction  
212 Pathogen[ P0C214] interacts with 1 human partners:{P23786}  
213 Pathogen[ P03346] interacts with 1 human partners:{P23786}  
214 Pathogen[ P03410] interacts with 1 human partners:{P23786}  
215 Pathogen[ P0C206] interacts with 1 human partners:{P23786}

216 [Cluster 37]GO:0030412+F molecular\_function [name] formimidoyltetrahydrofolate  
cyclodeaminase activity [def] "Catalysis of the reaction  
217 Pathogen[ P14079] interacts with 1 human partners:{O95954}  
218 Pathogen[ P03410] interacts with 1 human partners:{O95954}  
219 Pathogen[ P0C206] interacts with 1 human partners:{O95954}

220 [Cluster 38]GO:0017040+F molecular\_function [name] ceramidase activity [def]  
"Catalysis of the reaction  
221 Pathogen[ P14079] interacts with 1 human partners:{Q13510}  
222 Pathogen[ P03410] interacts with 1 human partners:{Q13510}  
223 Pathogen[ P14075] interacts with 1 human partners:{Q13510}

224 [Cluster 39]GO:0004464+F molecular\_function [name] leukotriene-C4 synthase activity  
[def] "Catalysis of the reaction  
225 Pathogen[ P14079] interacts with 2 human partners:{Q16873;P20292}  
226 Pathogen[ P03410] interacts with 2 human partners:{Q16873;P20292}  
227 Pathogen[ P0C206] interacts with 1 human partners:{P20292}

228 [Cluster 40]GO:0045513+F molecular\_function [name] interleukin-27 binding [def]  
"Interacting selectively and non-covalently with interleukin-27." [GOC  
229 Pathogen[ P14079] interacts with 1 human partners:{P29459}  
230 Pathogen[ P03410] interacts with 1 human partners:{P29459}

231 [Cluster 41]GO:0005245+F molecular\_function [name] voltage-gated calcium channel  
activity [def] "Catalysis of the transmembrane transfer of a calcium ion by a  
voltage-gated channel. A voltage-gated channel is a channel whose open state is dependent  
on the voltage across the membrane in which it is embedded." [GOC  
232 Pathogen[ P0C214] interacts with 1 human partners:{P62166}  
233 Pathogen[ P03346] interacts with 1 human partners:{P62166}  
234 Pathogen[ Q85601] interacts with 1 human partners:{P62166}  
235 Pathogen[ P14079] interacts with 1 human partners:{P62166}  
236 Pathogen[ P03410] interacts with 1 human partners:{P62166}  
237 Pathogen[ P0C206] interacts with 1 human partners:{P62166}

238 [Cluster 42]GO:0005134+F molecular\_function [name] interleukin-2 receptor binding  
[def] "Interacting selectively and non-covalently with the interleukin-2 receptor." [GOC  
239 Pathogen[ P0C214] interacts with 1 human partners:{Q3ZCQ8}  
240 Pathogen[ P03346] interacts with 1 human partners:{Q3ZCQ8}  
241 Pathogen[ Q85601] interacts with 1 human partners:{Q3ZCQ8}  
242 Pathogen[ P14079] interacts with 1 human partners:{Q3ZCQ8}  
243 Pathogen[ P03410] interacts with 1 human partners:{Q3ZCQ8}

244 Pathogen[ P0C206] interacts with 1 human partners:{Q3ZCQ8}

245 Pathogen[ P03363] interacts with 1 human partners:{Q3ZCQ8}

246 [Cluster 43]GO:0004013+F molecular\_function [name] adenosylhomocysteinase activity  
[def] "Catalysis of the reaction

247 Pathogen[ P0C214] interacts with 2 human partners:{O43865;P23526}

248 Pathogen[ P03346] interacts with 2 human partners:{P23526;O43865}

249 Pathogen[ Q85601] interacts with 2 human partners:{O43865;P23526}

250 Pathogen[ P14079] interacts with 2 human partners:{O43865;P23526}

251 Pathogen[ P03410] interacts with 2 human partners:{P23526;O43865}

252 Pathogen[ P0C206] interacts with 2 human partners:{O43865;P23526}

253 Pathogen[ P03363] interacts with 1 human partners:{O43865}

254 [Cluster 44]GO:0070324+F molecular\_function [name] thyroid hormone binding [def]  
"Interacting selectively and non-covalently with thyroxine (T4) or triiodothyronine (T3),  
tyrosine-based hormones produced by the thyroid gland." [GOC

255 Pathogen[ Q2Q067] interacts with 1 human partners:{P10827}

256 Pathogen[ P03346] interacts with 1 human partners:{P10827}

257 Pathogen[ Q85601] interacts with 1 human partners:{P10827}

258 Pathogen[ P14079] interacts with 1 human partners:{P10827}

259 Pathogen[ P0C206] interacts with 1 human partners:{P10827}

260 [Cluster 45]GO:0051434+F molecular\_function [name] BH3 domain binding [def]  
"Interacting selectively and non-covalently with the BH3 domain of a protein of the Bcl-2  
family. The BH3 domain is a potent death domain and has an important role in  
protein-protein interactions and in cell death." [PMID

261 Pathogen[ P03346] interacts with 1 human partners:{Q07820}

262 Pathogen[ P03363] interacts with 1 human partners:{Q07820}

263 [Cluster 46]GO:0008252+F molecular\_function [name] nucleotidase activity [def]  
"Catalysis of the reaction

264 Pathogen[ P0C214] interacts with 1 human partners:{Q8TCD5}

265 Pathogen[ P14079] interacts with 1 human partners:{Q8TCD5}

266 Pathogen[ P03410] interacts with 1 human partners:{Q8TCD5}

267 Pathogen[ P0C206] interacts with 1 human partners:{Q8TCD5}

268 [Cluster 47]GO:0001965+F molecular\_function [name] G-protein alpha-subunit binding  
[def] "Interacting selectively and non-covalently with a G-protein alpha subunit. The  
alpha subunit binds a guanine nucleotide." [GOC

269 Pathogen[ P0C214] interacts with 1 human partners:{Q9NVN3}

270 Pathogen[ P03346] interacts with 1 human partners:{Q9NVN3}

271 Pathogen[ P14079] interacts with 1 human partners:{Q9NVN3}

272 Pathogen[ P03410] interacts with 1 human partners:{Q9NVN3}

273 Pathogen[ P0C206] interacts with 1 human partners:{Q9NVN3}

274 [Cluster 48]GO:0004806+F molecular\_function [name] triglyceride lipase activity [def]  
"Catalysis of the reaction

275 Pathogen[ P14079] interacts with 1 human partners:{Q8NCG7}

276 Pathogen[ P03410] interacts with 1 human partners:{Q8NCG7}

277 [Cluster 49]GO:0042910+F molecular\_function [name] xenobiotic transporter activity  
[def] "Enables the directed movement of a xenobiotic, a compound foreign to living  
organisms, into, out of or within a cell, or between cells." [GOC

278 Pathogen[ Q2Q067] interacts with 1 human partners:{P11166}

279 Pathogen[ P0C214] interacts with 1 human partners:{P11166}

280 Pathogen[ P03346] interacts with 1 human partners:{P11166}

281 Pathogen[ Q85601] interacts with 1 human partners:{P11166}

282 Pathogen[ P14079] interacts with 1 human partners:{P11166}

283 Pathogen[ P03410] interacts with 1 human partners:{P11166}

284 Pathogen[ P0C206] interacts with 1 human partners:{P11166}

285 Pathogen[ P03363] interacts with 1 human partners:{P11166}

286 [Cluster 50]GO:0004739+F molecular\_function [name] pyruvate dehydrogenase  
(acetyl-transferring) activity [def] "Catalysis of the reaction

287 Pathogen[ P0C214] interacts with 1 human partners:{P11177}

288 [Cluster 51]GO:0000225+F molecular\_function [name]  
N-acetylglucosaminylphosphatidylinositol deacetylase activity [def] "Catalysis of the  
reaction

289 Pathogen[ P14079] interacts with 1 human partners:{Q9Y2B2}

290 Pathogen[ P03410] interacts with 1 human partners:{Q9Y2B2}

291 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y2B2}

292 [Cluster 52]GO:0004585+F molecular\_function [name] ornithine carbamoyltransferase  
activity [def] "Catalysis of the reaction

293 Pathogen[ P0C214] interacts with 1 human partners:{P00480}

294 Pathogen[ Q85601] interacts with 1 human partners:{P00480}

295 Pathogen[ P14079] interacts with 1 human partners:{P00480}

296 Pathogen[ P03410] interacts with 1 human partners:{P00480}

297 Pathogen[ P0C206] interacts with 1 human partners:{P00480}

298 [Cluster 53]GO:0017061+F molecular\_function [name] S-methyl-5-thioadenosine  
phosphorylase activity [def] "Catalysis of the reaction

299 Pathogen[ P0C214] interacts with 1 human partners:{Q13126}

300 [Cluster 54]GO:0003955+F molecular\_function [name] NAD(P)H dehydrogenase (quinone)  
activity [def] "Catalysis of the reaction

301 Pathogen[ Q2Q067] interacts with 1 human partners:{P15559}

302 Pathogen[ P0C214] interacts with 1 human partners:{P15559}

303 Pathogen[ P03346] interacts with 1 human partners:{P15559}

304 Pathogen[ P14079] interacts with 1 human partners:{P15559}

305 Pathogen[ P03410] interacts with 1 human partners:{P15559}

306 Pathogen[ P14075] interacts with 1 human partners:{P15559}

307 Pathogen[ P0C206] interacts with 1 human partners:{P15559}

308 [Cluster 55]GO:0004709+F molecular\_function [name] MAP kinase kinase kinase activity  
[def] "Catalysis of the phosphorylation and activation of MAP kinase kinases\_ each MAP  
kinase kinase can be phosphorylated by any of several MAP kinase kinase kinases." [PMID

309 Pathogen[ Q2Q067] interacts with 2 human partners:{Q13233;O43318}

310 Pathogen[ P0C214] interacts with 2 human partners:{O43318;Q13233}

311 Pathogen[ P03346] interacts with 2 human partners:{Q13233;O43318}

312 Pathogen[ Q85601] interacts with 2 human partners:{Q13233;O43318}

313 Pathogen[ P03383] interacts with 2 human partners:{Q13233;O43318}

314 Pathogen[ P03410] interacts with 2 human partners:{Q13233;O43318}

315 Pathogen[ P14075] interacts with 2 human partners:{O43318;Q13233}

316 Pathogen[ P0C206] interacts with 2 human partners:{O43318;Q13233}

317 Pathogen[ P03363] interacts with 2 human partners:{O43318;Q13233}

318 [Cluster 56]GO:0016165+F molecular\_function [name] lipoygenase activity [def]  
"Catalysis of the reaction

319 Pathogen[ Q2Q067] interacts with 1 human partners:{P09917}

320 Pathogen[ P0C214] interacts with 2 human partners:{P09917;P18054}

321 Pathogen[ P03346] interacts with 2 human partners:{P18054;P09917}

322 Pathogen[ Q85601] interacts with 1 human partners:{P09917}

323 Pathogen[ P14079] interacts with 1 human partners:{P09917}

324 Pathogen[ P03410] interacts with 1 human partners:{P09917}

325 Pathogen[ P0C206] interacts with 1 human partners:{P09917}

326 [Cluster 57]GO:0016212+F molecular\_function [name] kynurenine-oxoglutarate  
transaminase activity [def] "Catalysis of the reaction

327 Pathogen[ P0C214] interacts with 1 human partners:{Q16773}

328 [Cluster 58]GO:0008890+F molecular\_function [name] glycine C-acetyltransferase  
activity [def] "Catalysis of the reaction

329 Pathogen[ P03410] interacts with 1 human partners:{O75600}

330 [Cluster 59]GO:0043138+F molecular\_function [name] 3'-5' DNA helicase activity [def]  
"Catalysis of the unwinding of the DNA helix in the direction 3' to 5'." [GOC

331 Pathogen[ Q85601] interacts with 1 human partners:{P19447}

332 Pathogen[ P14079] interacts with 1 human partners:{P19447}

333 Pathogen[ P03410] interacts with 1 human partners:{P19447}

334 Pathogen[ P0C206] interacts with 1 human partners:{P19447}

335 [Cluster 60]GO:0008831+F molecular\_function [name] dTDP-4-dehydrorhamnose reductase  
activity [def] "Catalysis of the reaction

336 Pathogen[ P0C214] interacts with 1 human partners:{Q9NZL9}

337 Pathogen[ P03346] interacts with 1 human partners:{Q9NZL9}

338 Pathogen[ P14079] interacts with 1 human partners:{Q9NZL9}

339 Pathogen[ P03410] interacts with 1 human partners:{Q9NZL9}

340 Pathogen[ P0C206] interacts with 1 human partners:{Q9NZL9}

341 [Cluster 61]GO:0000215+F molecular\_function [name] tRNA 2'-phosphotransferase  
activity [def] "Catalysis of the reaction

342 Pathogen[ P14079] interacts with 1 human partners:{Q86TN4}

343 Pathogen[ P03410] interacts with 1 human partners:{Q86TN4}

344 [Cluster 62]GO:0015266+F molecular\_function [name] protein channel activity [def]  
"Catalysis of energy-independent facilitated diffusion, mediated by passage of proteins  
through a transmembrane aqueous pore or channel." [GOC

345 Pathogen[ P03346] interacts with 1 human partners:{Q07820}

346 Pathogen[ P03363] interacts with 1 human partners:{Q07820}

347 [Cluster 63]GO:0050693+F molecular\_function [name] LBD domain binding [def]  
"Interacting selectively and non-covalently with the LBD, the ligand binding domain found  
in nuclear receptors. In general, the LBDs consist of three layers comprised of twelve  
alpha-helices and several beta-strands that are organized around a lipophilic  
ligand-binding pocket." [PMID

348 Pathogen[ Q2Q067] interacts with 1 human partners:{Q99966}

349 Pathogen[ P0C214] interacts with 1 human partners:{Q99966}

350 Pathogen[ P03346] interacts with 1 human partners:{Q99966}

351 Pathogen[ Q85601] interacts with 1 human partners:{Q99966}

352 Pathogen[ P14079] interacts with 1 human partners:{Q99966}

353 Pathogen[ P03410] interacts with 1 human partners:{Q99966}

354 Pathogen[ P0C206] interacts with 1 human partners:{Q99966}

355 [Cluster 64]GO:0004996+F molecular\_function [name] thyroid-stimulating hormone  
receptor activity [def] "Combining with thyroid-stimulating hormone to initiate a  
change in cell activity." [GOC

356 Pathogen[ P03346] interacts with 1 human partners:{Q06710}

357 [Cluster 65]GO:0003896+F molecular\_function [name] DNA primase activity [def]  
"Catalysis of the synthesis of a short RNA primer on a DNA template, providing a free  
3'-OH that can be extended by DNA-directed DNA polymerases. Catalyzed by a DNA-directed  
RNA polymerase that forms a complex with alpha DNA polymerase." [GOC

358 Pathogen[ P14079] interacts with 2 human partners:{Q96LW4;P49642}

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359     Pathogen[ P03410] interacts with 2 human partners:{Q96LW4;P49642}
360     Pathogen[ P0C206] interacts with 1 human partners:{P49642}
361 [Cluster 66]GO:0015923+F     molecular_function [name] mannosidase activity [def]
"Catalysis of the hydrolysis of mannosyl compounds, substances containing a group derived
from a cyclic form of mannose or a mannose derivative." [GOC
362     Pathogen[ P14079] interacts with 1 human partners:{Q9NTJ4}
363     Pathogen[ P03410] interacts with 1 human partners:{Q9NTJ4}
364 [Cluster 67]GO:0052848+F     molecular_function [name]
inositol-3,5-bisdiphosphate-2,3,4,6-tetrakisphosphate 5-diphosphatase activity [def]
"Catalysis of the reaction
365     Pathogen[ P0C214] interacts with 1 human partners:{O95989}
366     Pathogen[ Q85601] interacts with 1 human partners:{O95989}
367     Pathogen[ P14079] interacts with 4 human partners:{Q96G61;O95989;Q8NFP7;Q9NZJ9}
368     Pathogen[ P03383] interacts with 1 human partners:{O95989}
369     Pathogen[ P03410] interacts with 4 human partners:{Q8NFP7;Q9NZJ9;O95989;Q96G61}
370     Pathogen[ P14075] interacts with 1 human partners:{O95989}
371     Pathogen[ P0C206] interacts with 2 human partners:{O95989;Q8NFP7}
372 [Cluster 68]GO:0016277+F     molecular_function [name] [myelin basic protein]-arginine
N-methyltransferase activity [def] "Catalysis of the reaction
373     Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NVM4}
374     Pathogen[ P0C214] interacts with 1 human partners:{Q9NVM4}
375     Pathogen[ P03346] interacts with 1 human partners:{Q9NVM4}
376     Pathogen[ Q85601] interacts with 1 human partners:{Q9NVM4}
377     Pathogen[ P14079] interacts with 1 human partners:{Q9NVM4}
378     Pathogen[ P03410] interacts with 1 human partners:{Q9NVM4}
379     Pathogen[ P0C206] interacts with 1 human partners:{Q9NVM4}
380     Pathogen[ P03363] interacts with 1 human partners:{Q9NVM4}
381 [Cluster 69]GO:0004633+F     molecular_function [name] phosphopantothencycysteine
decarboxylase activity [def] "Catalysis of the reaction
382     Pathogen[ P14079] interacts with 1 human partners:{Q96CD2}
383     Pathogen[ P03410] interacts with 1 human partners:{Q96CD2}
384 [Cluster 70]GO:0005021+F     molecular_function [name] vascular endothelial growth
factor-activated receptor activity [def] "Combining with vascular endothelial growth
factor and transmitting the signal across the plasma membrane to initiate a change in
cell activity." [GOC
385     Pathogen[ Q2Q067] interacts with 1 human partners:{O14786}
386     Pathogen[ P0C214] interacts with 1 human partners:{O14786}
387     Pathogen[ P03346] interacts with 1 human partners:{O14786}
388     Pathogen[ Q85601] interacts with 1 human partners:{O14786}
389     Pathogen[ P03410] interacts with 1 human partners:{O14786}
390     Pathogen[ P0C206] interacts with 1 human partners:{O14786}
391     Pathogen[ P03363] interacts with 1 human partners:{O14786}
392 [Cluster 71]GO:0070773+F     molecular_function [name] protein-N-terminal glutamine
amidohydrolase activity [def] "Catalysis of the reaction
393     Pathogen[ Q2Q067] interacts with 1 human partners:{Q96HA8}
394     Pathogen[ P0C214] interacts with 1 human partners:{Q96HA8}
395     Pathogen[ P03346] interacts with 1 human partners:{Q96HA8}
396     Pathogen[ Q85601] interacts with 1 human partners:{Q96HA8}
397     Pathogen[ P14079] interacts with 1 human partners:{Q96HA8}
398     Pathogen[ P03383] interacts with 1 human partners:{Q96HA8}
399     Pathogen[ P14075] interacts with 1 human partners:{Q96HA8}
400     Pathogen[ P0C206] interacts with 1 human partners:{Q96HA8}
401     Pathogen[ P03363] interacts with 1 human partners:{Q96HA8}
402 [Cluster 72]GO:0003844+F     molecular_function [name] 1,4-alpha-glucan branching enzyme
activity [def] "Catalysis of the transfer of a segment of a (1->4)-alpha-D-glucan
chain to a primary hydroxyl group in a similar glucan chain." [EC
403     Pathogen[ P0C214] interacts with 1 human partners:{Q04446}
404     Pathogen[ Q85601] interacts with 1 human partners:{Q04446}
405     Pathogen[ P03410] interacts with 1 human partners:{Q04446}
406     Pathogen[ P0C206] interacts with 1 human partners:{Q04446}
407 [Cluster 73]GO:0005114+F     molecular_function [name] type II transforming growth factor
beta receptor binding [def] "Interacting selectively and non-covalently with a type II
transforming growth factor beta receptor." [GOC
408     Pathogen[ P14079] interacts with 1 human partners:{Q13145}
409     Pathogen[ P03410] interacts with 1 human partners:{Q13145}
410 [Cluster 74]GO:0016758+F     molecular_function [name] transferase activity, transferring
hexosyl groups [def] "Catalysis of the transfer of a hexosyl group from one compound
(donor) to another (acceptor)." [GOC
411     Pathogen[ P14079] interacts with 3 human partners:{Q4G0N0;Q9UBM8;Q49AQ9}
412     Pathogen[ P03410] interacts with 3 human partners:{Q4G0N0;Q49AQ9;Q8NHY0}
413     Pathogen[ P0C206] interacts with 1 human partners:{Q49AQ9}
414 [Cluster 75]GO:0000010+F     molecular_function [name] trans-hexaprenyltranstransferase
activity [def] "Catalysis of the reaction
415     Pathogen[ P14079] interacts with 1 human partners:{Q86YH6}
416     Pathogen[ P03410] interacts with 1 human partners:{Q86YH6}
417 [Cluster 76]GO:0016972+F     molecular_function [name] thiol oxidase activity [def]

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"Catalysis of the reaction
418 Pathogen[ P0C214] interacts with 1 human partners:{P55789}
419 Pathogen[ P14079] interacts with 1 human partners:{P55789}
420 Pathogen[ P03410] interacts with 1 human partners:{P55789}
421 Pathogen[ P14075] interacts with 1 human partners:{P55789}
422 Pathogen[ P0C206] interacts with 1 human partners:{P55789}
423 [Cluster 77]GO:0047184+F molecular_function [name] 1-acylglycerophosphocholine
O-acyltransferase activity [def] "Catalysis of the reaction
424 Pathogen[ P03410] interacts with 1 human partners:{Q16635}
425 [Cluster 78]GO:0004108+F molecular_function [name] citrate (Si)-synthase activity
[def] "Catalysis of the reaction
426 Pathogen[ P0C214] interacts with 1 human partners:{075390}
427 Pathogen[ P03346] interacts with 1 human partners:{075390}
428 Pathogen[ P03410] interacts with 1 human partners:{075390}
429 Pathogen[ P0C206] interacts with 1 human partners:{075390}
430 [Cluster 79]GO:0004056+F molecular_function [name] argininosuccinate lyase activity
[def] "Catalysis of the reaction
431 Pathogen[ P0C214] interacts with 1 human partners:{P04424}
432 Pathogen[ P14079] interacts with 1 human partners:{P04424}
433 Pathogen[ P03410] interacts with 1 human partners:{P04424}
434 [Cluster 80]GO:0008903+F molecular_function [name] hydroxypyruvate isomerase activity
[def] "Catalysis of the reaction
435 Pathogen[ P14079] interacts with 1 human partners:{Q5T013}
436 Pathogen[ P03410] interacts with 1 human partners:{Q5T013}
437 [Cluster 81]GO:0001972+F molecular_function [name] retinoic acid binding [def]
"Interacting selectively and non-covalently with retinoic acid,
3,7-dimethyl-9-(2,6,-trimethyl-1-cyclohexen-1-yl)-2,4,6,8-nonatetraenoic acid." [GOC
438 Pathogen[ P03346] interacts with 1 human partners:{P29373}
439 Pathogen[ P0C206] interacts with 1 human partners:{P29373}
440 Pathogen[ P03363] interacts with 1 human partners:{P29373}
441 [Cluster 82]GO:0000030+F molecular_function [name] mannosyltransferase activity [def]
"Catalysis of the transfer of a mannosyl group to an acceptor molecule, typically another
carbohydrate or a lipid." [GOC
442 Pathogen[ P14079] interacts with 1 human partners:{Q9BT22}
443 Pathogen[ P03410] interacts with 1 human partners:{Q9BT22}
444 [Cluster 83]GO:0004969+F molecular_function [name] histamine receptor activity [def]
"Combining with histamine to initiate a change in cell activity. Histamine is a
physiologically active amine, found in plant and animal tissue and released from mast
cells as part of an allergic reaction in humans." [GOC
445 Pathogen[ P03346] interacts with 1 human partners:{Q9P2Y4}
446 Pathogen[ P14079] interacts with 1 human partners:{Q9P2Y4}
447 Pathogen[ P0C206] interacts with 1 human partners:{Q9P2Y4}
448 Pathogen[ P03363] interacts with 1 human partners:{Q9P2Y4}
449 [Cluster 84]GO:0047498+F molecular_function [name] calcium-dependent phospholipase A2
activity [def] "Catalysis of the reaction
450 Pathogen[ P14079] interacts with 1 human partners:{Q9NZ20}
451 Pathogen[ P03410] interacts with 1 human partners:{Q9NZ20}
452 [Cluster 85]GO:0005139+F molecular_function [name] interleukin-7 receptor binding
[def] "Interacting selectively and non-covalently with the interleukin-7 receptor." [GOC
453 Pathogen[ P14079] interacts with 1 human partners:{P13232}
454 Pathogen[ P03410] interacts with 1 human partners:{P13232}
455 [Cluster 86]GO:0035251+F molecular_function [name] UDP-glucosyltransferase activity
[def] "Catalysis of the transfer of a glucosyl group from UDP-glucose to an acceptor
molecule." [http
456 Pathogen[ P14079] interacts with 1 human partners:{Q8NBL1}
457 [Cluster 87]GO:0008318+F molecular_function [name] protein prenyltransferase activity
[def] "Catalysis of the covalent addition of an isoprenoid group such as a farnesyl or
geranylgeranyl group via thioether linkages to a cysteine residue in a protein." [GOC
458 Pathogen[ Q2Q067] interacts with 1 human partners:{P49354}
459 Pathogen[ P0C214] interacts with 1 human partners:{P49354}
460 Pathogen[ P03346] interacts with 1 human partners:{P49354}
461 Pathogen[ Q85601] interacts with 1 human partners:{P49354}
462 Pathogen[ P14079] interacts with 1 human partners:{P49354}
463 Pathogen[ P03410] interacts with 1 human partners:{P49354}
464 Pathogen[ P0C206] interacts with 1 human partners:{P49354}
465 Pathogen[ P03363] interacts with 1 human partners:{P49354}
466 [Cluster 88]GO:0034417+F molecular_function [name] bisphosphoglycerate 3-phosphatase
activity [def] "Catalysis of the reaction
467 Pathogen[ P14079] interacts with 1 human partners:{Q9UNW1}
468 Pathogen[ P03410] interacts with 1 human partners:{Q9UNW1}
469 [Cluster 89]GO:0004985+F molecular_function [name] opioid receptor activity [def]
"Combining with an opioid (any narcotic derived from or resembling opium), and
transmitting the signal across the membrane by activating an associated G-protein."
[CHEBI
470 Pathogen[ P0C214] interacts with 1 human partners:{Q9NZT2}
471 Pathogen[ P03346] interacts with 1 human partners:{Q9NZT2}

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472 Pathogen[ P14079] interacts with 1 human partners:{Q9NZT2}

473 Pathogen[ P03410] interacts with 1 human partners:{Q9NZT2}

474 Pathogen[ P0C206] interacts with 1 human partners:{Q9NZT2}

475 Pathogen[ P03363] interacts with 1 human partners:{Q9NZT2}

476 [Cluster 90]GO:0005184+F molecular\_function [name] neuropeptide hormone activity  
[def] "The action characteristic of a neuropeptide hormone, any peptide hormone that acts in the central nervous system. A neuropeptide is any of several types of molecules found in brain tissue, composed of short chains of amino acids\_ they include endorphins, enkephalins, vasopressin, and others. They are often localized in axon terminals at synapses and are classified as putative neurotransmitters, although some are also hormones." [GOC]

477 Pathogen[ P14079] interacts with 3 human partners:{P20396;O43612;P81277}

478 Pathogen[ P03410] interacts with 3 human partners:{O43612;P81277;P20396}

479 Pathogen[ P0C206] interacts with 1 human partners:{P20396}

480 [Cluster 91]GO:0050379+F molecular\_function [name] UDP-glucuronate 5'-epimerase activity [def] "Catalysis of the reaction

481 Pathogen[ P14079] interacts with 1 human partners:{O94923}

482 [Cluster 92]GO:0052826+F molecular\_function [name] inositol hexakisphosphate 2-phosphatase activity [def] "Catalysis of the reaction

483 Pathogen[ P14079] interacts with 1 human partners:{Q9UNW1}

484 Pathogen[ P03410] interacts with 1 human partners:{Q9UNW1}

485 [Cluster 93]GO:0019841+F molecular\_function [name] retinol binding [def] "Interacting selectively and non-covalently with retinol, vitamin A1, 2,6,6-trimethyl-1-(9'-hydroxy-3',7'-dimethylnona-1',3',5',7'-tetraenyl)cyclohex-1-ene, one of the three components that makes up vitamin A. Retinol is an intermediate in the vision cycle and it also plays a role in growth and differentiation." [CHEBI

486 Pathogen[ P03346] interacts with 1 human partners:{P29373}

487 Pathogen[ P0C206] interacts with 1 human partners:{P29373}

488 Pathogen[ P03363] interacts with 1 human partners:{P29373}

489 [Cluster 94]GO:0030160+F molecular\_function [name] GKAP/Homer scaffold activity [def] "Functions as a physical support bridging the N-methyl-D-aspartate receptor-PSD-95-GKAP complex and the mGluR-Homer complex, which are involved in receptor signaling in synapses." [PMID

490 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UPX8}

491 Pathogen[ P0C214] interacts with 1 human partners:{Q9UPX8}

492 Pathogen[ P03346] interacts with 1 human partners:{Q9UPX8}

493 Pathogen[ Q85601] interacts with 1 human partners:{Q9UPX8}

494 Pathogen[ P14079] interacts with 1 human partners:{Q9UPX8}

495 Pathogen[ P03410] interacts with 1 human partners:{Q9UPX8}

496 Pathogen[ P0C206] interacts with 1 human partners:{Q9UPX8}

497 Pathogen[ P03363] interacts with 1 human partners:{Q9UPX8}

498 [Cluster 95]GO:0005488+F molecular\_function [name] binding [def] "The selective, non-covalent, often stoichiometric, interaction of a molecule with one or more specific sites on another molecule." [GOC

499 Pathogen[ P0C214] interacts with 1 human partners:{P05543}

500 Pathogen[ P03346] interacts with 1 human partners:{P35326}

501 Pathogen[ P14079] interacts with 1 human partners:{P35326}

502 Pathogen[ P03410] interacts with 2 human partners:{P55157;P35326}

503 Pathogen[ P0C206] interacts with 1 human partners:{P35326}

504 Pathogen[ P03363] interacts with 1 human partners:{P35326}

505 [Cluster 96]GO:0008887+F molecular\_function [name] glycerate kinase activity [def] "Catalysis of the reaction

506 Pathogen[ P14079] interacts with 1 human partners:{Q8IVS8}

507 Pathogen[ P03410] interacts with 1 human partners:{Q8IVS8}

508 Pathogen[ P14075] interacts with 1 human partners:{Q8IVS8}

509 Pathogen[ P0C206] interacts with 1 human partners:{Q8IVS8}

510 Pathogen[ P03363] interacts with 1 human partners:{Q8IVS8}

511 [Cluster 97]GO:0072545+F molecular\_function [name] tyrosine binding [def] "Interacting selectively and non-covalently with 2-amino-3-(4-hydroxyphenyl)propanoic acid." [CHEBI

512 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y2Z4}

513 Pathogen[ P14079] interacts with 1 human partners:{Q9Y2Z4}

514 Pathogen[ P03383] interacts with 1 human partners:{Q9Y2Z4}

515 Pathogen[ P03410] interacts with 1 human partners:{Q9Y2Z4}

516 Pathogen[ P14075] interacts with 1 human partners:{Q9Y2Z4}

517 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y2Z4}

518 Pathogen[ P03363] interacts with 1 human partners:{Q9Y2Z4}

519 [Cluster 98]GO:0019871+F molecular\_function [name] sodium channel inhibitor activity [def] "Stops, prevents, or reduces the activity of a sodium channel." [GOC

520 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96PU5}

521 Pathogen[ P0C214] interacts with 1 human partners:{Q96PU5}

522 Pathogen[ P03346] interacts with 1 human partners:{Q96PU5}

523 Pathogen[ Q85601] interacts with 1 human partners:{Q96PU5}

524 Pathogen[ P0C206] interacts with 1 human partners:{Q96PU5}

525 Pathogen[ P03363] interacts with 1 human partners:{Q96PU5}

526 [Cluster 99]GO:0032003+F molecular\_function [name] interleukin-28 receptor binding

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[def] "Interacting selectively and non-covalently with the interleukin-28 receptor." [GOC
527 Pathogen[ P14079] interacts with 1 human partners:{Q8IU54}
528 [Cluster 100]GO:0003952+F molecular_function [name] NAD+ synthase
(glutamine-hydrolyzing) activity [def] "Catalysis of the reaction
529 Pathogen[ P14079] interacts with 1 human partners:{Q6IA69}
530 Pathogen[ P03410] interacts with 1 human partners:{Q6IA69}
531 [Cluster 101]GO:0035591+F molecular_function [name] signaling adaptor activity [def]
"The binding activity of a molecule that brings together two or more molecules in a
signaling pathway, permitting those molecules to function in a coordinated way. Adaptor
molecules themselves do not have catalytic activity." [GOC
532 Pathogen[ P03346] interacts with 1 human partners:{Q5T2T1}
533 Pathogen[ P14079] interacts with 1 human partners:{Q5T2T1}
534 Pathogen[ P03410] interacts with 1 human partners:{Q5T2T1}
535 Pathogen[ P0C206] interacts with 1 human partners:{Q5T2T1}
536 Pathogen[ P03363] interacts with 1 human partners:{Q5T2T1}
537 [Cluster 102]GO:0070191+F molecular_function [name] methionine-R-sulfoxide reductase
activity [def] "Catalysis of the reaction
538 Pathogen[ P14079] interacts with 1 human partners:{Q9NZV6}
539 Pathogen[ P0C206] interacts with 1 human partners:{Q9NZV6}
540 [Cluster 103]GO:0004331+F molecular_function [name] fructose-2,6-bisphosphate
2-phosphatase activity [def] "Catalysis of the reaction
541 Pathogen[ P0C214] interacts with 3 human partners:{O60825;P16118;O00757}
542 Pathogen[ Q85601] interacts with 3 human partners:{O60825;O00757;P16118}
543 Pathogen[ P03410] interacts with 3 human partners:{P16118;O00757;Q9NQ88}
544 Pathogen[ P14075] interacts with 1 human partners:{P16118}
545 Pathogen[ P0C206] interacts with 3 human partners:{O00757;O60825;P16118}
546 [Cluster 104]GO:0042030+F molecular_function [name] ATPase inhibitor activity [def]
"Stops, prevents or reduces the activity of any enzyme that catalyzes the hydrolysis of
ATP to ADP and orthophosphate." [GOC
547 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9UII2;P26678}
548 Pathogen[ P0C214] interacts with 2 human partners:{Q9UII2;P26678}
549 Pathogen[ P03346] interacts with 2 human partners:{P26678;Q9UII2}
550 Pathogen[ Q85601] interacts with 1 human partners:{Q9UII2}
551 Pathogen[ P14079] interacts with 2 human partners:{Q9UII2;P26678}
552 Pathogen[ P03383] interacts with 2 human partners:{Q9UII2;P26678}
553 Pathogen[ P03410] interacts with 2 human partners:{Q9UII2;P26678}
554 Pathogen[ P14075] interacts with 2 human partners:{Q9UII2;P26678}
555 Pathogen[ P0C206] interacts with 2 human partners:{P26678;Q9UII2}
556 [Cluster 105]GO:0031870+F molecular_function [name] thromboxane A2 receptor binding
[def] "Interacting selectively and non-covalently with a thromboxane A2 receptor." [GOC
557 Pathogen[ P03346] interacts with 1 human partners:{Q68CZ1}
558 Pathogen[ P14079] interacts with 1 human partners:{Q68CZ1}
559 Pathogen[ P03410] interacts with 1 human partners:{Q68CZ1}
560 [Cluster 106]GO:0048256+F molecular_function [name] flap endonuclease activity [def]
"Catalysis of the cleavage of a flap structure in DNA, but not other DNA structures_
processes the ends of Okazaki fragments in lagging strand DNA synthesis." [GOC
561 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9UQ84;P39748}
562 Pathogen[ P0C214] interacts with 2 human partners:{P39748;Q9UQ84}
563 Pathogen[ P03346] interacts with 2 human partners:{Q9UQ84;P39748}
564 Pathogen[ Q85601] interacts with 2 human partners:{Q9UQ84;P39748}
565 Pathogen[ P14079] interacts with 2 human partners:{Q9UQ84;P39748}
566 Pathogen[ P03410] interacts with 2 human partners:{P39748;Q9UQ84}
567 Pathogen[ P0C206] interacts with 2 human partners:{Q9UQ84;P39748}
568 [Cluster 107]GO:0004766+F molecular_function [name] spermidine synthase activity [def]
"Catalysis of the reaction
569 Pathogen[ P0C214] interacts with 2 human partners:{P52788;P19623}
570 Pathogen[ P14079] interacts with 1 human partners:{P19623}
571 Pathogen[ P03410] interacts with 2 human partners:{P19623;P52788}
572 [Cluster 108]GO:0004743+F molecular_function [name] pyruvate kinase activity [def]
"Catalysis of the reaction
573 Pathogen[ P0C214] interacts with 1 human partners:{P14618}
574 Pathogen[ Q85601] interacts with 1 human partners:{P14618}
575 Pathogen[ P0C206] interacts with 1 human partners:{P14618}
576 [Cluster 109]GO:0042288+F molecular_function [name] MHC class I protein binding [def]
"Interacting selectively and non-covalently with major histocompatibility complex class I
molecules_ a set of molecules displayed on cell surfaces that are responsible for
lymphocyte recognition and antigen presentation." [GOC
577 Pathogen[ P03346] interacts with 1 human partners:{Q9BUN8}
578 Pathogen[ P14079] interacts with 2 human partners:{P25705;Q9BUN8}
579 Pathogen[ P03383] interacts with 1 human partners:{Q9BUN8}
580 Pathogen[ P03410] interacts with 2 human partners:{P25705;Q9BUN8}
581 Pathogen[ P14075] interacts with 1 human partners:{Q9BUN8}
582 Pathogen[ P0C206] interacts with 1 human partners:{Q9BUN8}
583 [Cluster 110]GO:0004569+F molecular_function [name] glycoprotein
endo-alpha-1,2-mannosidase activity [def] "Catalysis of the hydrolysis of the terminal
alpha-glucosyl-(1,3)-mannosyl unit from Glc-Man(9)-(GlcNAc)(2) oligosaccharide component

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of the glycoprotein produced in the Golgi membrane." [EC

584 Pathogen[ P14079] interacts with 1 human partners:{Q5SRI9}

585 Pathogen[ P03410] interacts with 1 human partners:{Q5SRI9}

586 Pathogen[ P14075] interacts with 1 human partners:{Q5SRI9}

587 Pathogen[ P0C206] interacts with 1 human partners:{Q5SRI9}

588 [Cluster 111]GO:0004629+F molecular\_function [name] phospholipase C activity [def] "Catalysis of the reaction

589 Pathogen[ P14079] interacts with 1 human partners:{Q9NUJ7}

590 [Cluster 112]GO:0016176+F molecular\_function [name] superoxide-generating NADPH oxidase activator activity [def] "Increases the activity of the enzyme superoxide-generating NADPH oxidase." [GOC

591 Pathogen[ P03346] interacts with 1 human partners:{Q86UR1}

592 Pathogen[ P03410] interacts with 1 human partners:{Q86UR1}

593 Pathogen[ P03363] interacts with 1 human partners:{Q86UR1}

594 [Cluster 113]GO:0035639+F molecular\_function [name] purine ribonucleoside triphosphate binding [def] "Interacting selectively and non-covalently with a purine ribonucleoside triphosphate, a compound consisting of a purine base linked to a ribose sugar esterified with triphosphate on the sugar." [CHEBI

595 Pathogen[ Q2Q067] interacts with 1 human partners:{P60900}

596 Pathogen[ P0C214] interacts with 1 human partners:{P60900}

597 Pathogen[ P03346] interacts with 1 human partners:{P60900}

598 Pathogen[ Q85601] interacts with 1 human partners:{P60900}

599 Pathogen[ P14079] interacts with 1 human partners:{P60900}

600 Pathogen[ P03383] interacts with 1 human partners:{P60900}

601 Pathogen[ P03410] interacts with 1 human partners:{P60900}

602 Pathogen[ P14075] interacts with 1 human partners:{P60900}

603 Pathogen[ P0C206] interacts with 1 human partners:{P60900}

604 [Cluster 114]GO:0048244+F molecular\_function [name] phytanoyl-CoA dioxygenase activity [def] "Catalysis of the reaction

605 Pathogen[ P0C214] interacts with 1 human partners:{O14832}

606 Pathogen[ P14079] interacts with 1 human partners:{O14832}

607 Pathogen[ P03410] interacts with 1 human partners:{O14832}

608 Pathogen[ P14075] interacts with 1 human partners:{O14832}

609 Pathogen[ P0C206] interacts with 1 human partners:{O14832}

610 [Cluster 115]GO:0050291+F molecular\_function [name] sphingosine N-acyltransferase activity [def] "Catalysis of the reaction

611 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96G23}

612 Pathogen[ P0C214] interacts with 2 human partners:{Q9HA82;Q96G23}

613 Pathogen[ P03346] interacts with 1 human partners:{Q96G23}

614 Pathogen[ Q85601] interacts with 1 human partners:{Q96G23}

615 Pathogen[ P14079] interacts with 3 human partners:{Q9HA82;P27544;Q96G23}

616 Pathogen[ P03410] interacts with 3 human partners:{P27544;Q96G23;Q9HA82}

617 Pathogen[ P0C206] interacts with 2 human partners:{Q96G23;Q9HA82}

618 Pathogen[ P03363] interacts with 1 human partners:{Q96G23}

619 [Cluster 116]GO:0003986+F molecular\_function [name] acetyl-CoA hydrolase activity [def] "Catalysis of the reaction

620 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9Y305}

621 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y305}

622 Pathogen[ P03346] interacts with 1 human partners:{Q9Y305}

623 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y305}

624 Pathogen[ P14079] interacts with 1 human partners:{Q9Y305}

625 Pathogen[ P03383] interacts with 1 human partners:{Q9Y305}

626 Pathogen[ P03410] interacts with 1 human partners:{Q9Y305}

627 Pathogen[ P14075] interacts with 1 human partners:{Q9Y305}

628 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y305}

629 [Cluster 117]GO:0004790+F molecular\_function [name] thioether S-methyltransferase activity [def] "Catalysis of the reaction

630 Pathogen[ P03346] interacts with 1 human partners:{O95050}

631 Pathogen[ P14079] interacts with 1 human partners:{O95050}

632 Pathogen[ P03410] interacts with 1 human partners:{O95050}

633 Pathogen[ P03363] interacts with 1 human partners:{O95050}

634 [Cluster 118]GO:0016415+F molecular\_function [name] octanoyltransferase activity [def] "Catalysis of the transfer of an octanoyl (CH<sub>3</sub>-[CH<sub>2</sub>]<sub>6</sub>-CO-) group to an acceptor molecule." [GOC

635 Pathogen[ P0C214] interacts with 1 human partners:{A6NK58}

636 Pathogen[ P14079] interacts with 1 human partners:{A6NK58}

637 Pathogen[ P03410] interacts with 1 human partners:{A6NK58}

638 Pathogen[ P0C206] interacts with 1 human partners:{A6NK58}

639 [Cluster 119]GO:0005129+F molecular\_function [name] granulocyte macrophage colony-stimulating factor receptor binding [def] "Interacting selectively and non-covalently with the granulocyte macrophage colony-stimulating factor receptor." [GOC

640 Pathogen[ P14079] interacts with 1 human partners:{P04141}

641 Pathogen[ P03410] interacts with 1 human partners:{P04141}

642 [Cluster 120]GO:0005201+F molecular\_function [name] extracellular matrix structural constituent [def] "The action of a molecule that contributes to the structural integrity of the extracellular matrix." [GOC

643 Pathogen[ P14079] interacts with 2 human partners:{P15502;Q9NQ76}

644 Pathogen[ P03383] interacts with 1 human partners:{P15502}

645 Pathogen[ P03410] interacts with 2 human partners:{P15502;Q9NQ76}

646 Pathogen[ P14075] interacts with 1 human partners:{P15502}

647 Pathogen[ P0C206] interacts with 1 human partners:{P15502}

648 [Cluster 121]GO:0004930+F molecular\_function [name] G-protein coupled receptor activity [def] "Combining with an extracellular signal and transmitting the signal across the membrane by activating an associated G-protein\_ promotes the exchange of GDP for GTP on the alpha subunit of a heterotrimeric G-protein complex." [GOC

649 Pathogen[ P14079] interacts with 3 human partners:{Q9NYV7;Q86W33;O43813}

650 Pathogen[ P03410] interacts with 1 human partners:{Q86W33}

651 [Cluster 122]GO:0032139+F molecular\_function [name] dinucleotide insertion or deletion binding [def] "Interacting selectively and non-covalently with double-stranded DNA containing a dinucleotide insertion or deletion." [GOC

652 Pathogen[ Q2Q067] interacts with 1 human partners:{P12004}

653 Pathogen[ P0C214] interacts with 1 human partners:{P20585}

654 Pathogen[ P03346] interacts with 2 human partners:{P12004;P20585}

655 Pathogen[ Q85601] interacts with 2 human partners:{P20585;P12004}

656 Pathogen[ P14079] interacts with 2 human partners:{P20585;P12004}

657 Pathogen[ P03410] interacts with 2 human partners:{P20585;P12004}

658 Pathogen[ P0C206] interacts with 2 human partners:{P20585;P12004}

659 Pathogen[ P03363] interacts with 1 human partners:{P20585}

660 [Cluster 123]GO:0031013+F molecular\_function [name] troponin I binding [def] "Interacting selectively and non-covalently with troponin I, the inhibitory subunit of the troponin complex." [GOC

661 Pathogen[ P03346] interacts with 1 human partners:{P63316}

662 Pathogen[ P03410] interacts with 1 human partners:{P63316}

663 [Cluster 124]GO:0052794+F molecular\_function [name] exo-alpha-(2->3)-sialidase activity [def] "Catalysis of the hydrolysis of alpha-(2->3)-glycosidic linkages of terminal sialic residues in substrates." [EC

664 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8WWR8}

665 Pathogen[ P0C214] interacts with 2 human partners:{Q8WWR8;Q9Y3R4}

666 Pathogen[ P03346] interacts with 1 human partners:{Q8WWR8}

667 Pathogen[ P14079] interacts with 2 human partners:{Q8WWR8;Q9Y3R4}

668 Pathogen[ P03383] interacts with 1 human partners:{Q8WWR8}

669 Pathogen[ P03410] interacts with 2 human partners:{Q9Y3R4;Q8WWR8}

670 Pathogen[ P14075] interacts with 1 human partners:{Q8WWR8}

671 Pathogen[ P0C206] interacts with 2 human partners:{Q9Y3R4;Q8WWR8}

672 [Cluster 125]GO:0015207+F molecular\_function [name] adenine transmembrane transporter activity [def] "Catalysis of the transfer of adenine, 6-aminopurine, from one side of a membrane to the other." [GOC

673 Pathogen[ P03410] interacts with 1 human partners:{P05141}

674 [Cluster 126]GO:0004018+F molecular\_function [name] N6-(1,2-dicarboxyethyl)AMP AMP-lyase (fumarate-forming) activity [def] "Catalysis of the reaction

675 Pathogen[ P0C214] interacts with 1 human partners:{P30566}

676 Pathogen[ P03410] interacts with 1 human partners:{P30566}

677 [Cluster 127]GO:0070996+F molecular\_function [name] type 1 melanocortin receptor binding [def] "Interacting selectively and non-covalently with a type 1 melanocortin receptor." [GOC

678 Pathogen[ P14079] interacts with 2 human partners:{Q96G30;Q8TCY5}

679 Pathogen[ P03410] interacts with 1 human partners:{Q96G30}

680 [Cluster 128]GO:0016790+F molecular\_function [name] thiolester hydrolase activity [def] "Catalysis of the reaction

681 Pathogen[ Q2Q067] interacts with 1 human partners:{Q86TX2}

682 Pathogen[ P0C214] interacts with 1 human partners:{Q86TX2}

683 Pathogen[ P03346] interacts with 1 human partners:{Q86TX2}

684 Pathogen[ Q85601] interacts with 1 human partners:{Q86TX2}

685 Pathogen[ P14079] interacts with 4 human partners:{P49753;Q9NUQ7;Q86TX2;Q6NVU6}

686 Pathogen[ P03410] interacts with 3 human partners:{Q86TX2;P49753;Q6NVU6}

687 Pathogen[ P14075] interacts with 1 human partners:{Q6NVU6}

688 Pathogen[ P0C206] interacts with 1 human partners:{Q86TX2}

689 [Cluster 129]GO:0004017+F molecular\_function [name] adenylate kinase activity [def] "Catalysis of the reaction

690 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y3D8}

691 Pathogen[ P03346] interacts with 1 human partners:{Q9Y3D8}

692 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y3D8}

693 Pathogen[ P03363] interacts with 1 human partners:{Q9Y3D8}

694 [Cluster 130]GO:0035258+F molecular\_function [name] steroid hormone receptor binding [def] "Interacting selectively and non-covalently with a steroid hormone receptor." [GOC

695 Pathogen[ P03346] interacts with 1 human partners:{P51843}

696 [Cluster 131]GO:0032181+F molecular\_function [name] dinucleotide repeat insertion binding [def] "Interacting selectively and non-covalently with double-stranded DNA containing a dinucleotide repeat insertion or a deletion resulting in unpaired dinucleotide repeats." [GOC

697 Pathogen[ P0C214] interacts with 1 human partners:{P20585}

698 Pathogen[ P03346] interacts with 1 human partners:{P20585}

699 Pathogen[ Q85601] interacts with 1 human partners:{P20585}

700 Pathogen[ P14079] interacts with 1 human partners:{P20585}

701 Pathogen[ P03410] interacts with 1 human partners:{P20585}

702 Pathogen[ P0C206] interacts with 1 human partners:{P20585}

703 Pathogen[ P03363] interacts with 1 human partners:{P20585}

704 [Cluster 132]GO:0036002+F molecular\_function [name] pre-mRNA binding [def] "Interacting selectively and non-covalently with pre-messenger RNA (pre-mRNA), an intermediate molecule between DNA and protein that may contain introns and, at least in part, encodes one or more proteins. Introns are removed from pre-mRNA to form a mRNA molecule." [GOC

705 Pathogen[ P0C214] interacts with 1 human partners:{P26599}

706 Pathogen[ P03346] interacts with 1 human partners:{P26599}

707 Pathogen[ P14079] interacts with 1 human partners:{P26599}

708 Pathogen[ P03410] interacts with 1 human partners:{P26599}

709 Pathogen[ P03363] interacts with 1 human partners:{P26599}

710 [Cluster 133]GO:0004445+F molecular\_function [name] inositol-polyphosphate 5-phosphatase activity [def] "Catalysis of the reactions

711 Pathogen[ P0C214] interacts with 1 human partners:{O15056}

712 Pathogen[ P03346] interacts with 1 human partners:{O15056}

713 Pathogen[ P03363] interacts with 1 human partners:{O15056}

714 [Cluster 134]GO:0050290+F molecular\_function [name] sphingomyelin phosphodiesterase D activity [def] "Catalysis of the reaction

715 Pathogen[ P14079] interacts with 1 human partners:{Q9NXE4}

716 Pathogen[ P03410] interacts with 1 human partners:{Q9NXE4}

717 [Cluster 135]GO:000036+F molecular\_function [name] acyl carrier activity [def] "Enables the directed movement of acyl groups into, out of, within or between cells." [CHEBI

718 Pathogen[ P0C214] interacts with 1 human partners:{O14561}

719 Pathogen[ P14079] interacts with 1 human partners:{O14561}

720 Pathogen[ P03410] interacts with 1 human partners:{O14561}

721 Pathogen[ P14075] interacts with 1 human partners:{O14561}

722 Pathogen[ P0C206] interacts with 1 human partners:{O14561}

723 [Cluster 136]GO:0030748+F molecular\_function [name] amine N-methyltransferase activity [def] "Catalysis of the reaction

724 Pathogen[ P03346] interacts with 1 human partners:{O95050}

725 Pathogen[ P14079] interacts with 1 human partners:{O95050}

726 Pathogen[ P03410] interacts with 1 human partners:{O95050}

727 Pathogen[ P03363] interacts with 1 human partners:{O95050}

728 [Cluster 137]GO:0004886+F molecular\_function [name] 9-cis retinoic acid receptor activity [def] "Combining with 9-cis retinoic acid and transmitting the signal to the transcriptional machinery by interacting selectively and non-covalently with a specific DNA sequence in order to modulate transcription by RNA polymerase II." [GOC

729 Pathogen[ Q2Q067] interacts with 1 human partners:{P28702}

730 Pathogen[ P03346] interacts with 2 human partners:{P48443;P28702}

731 Pathogen[ Q85601] interacts with 1 human partners:{P28702}

732 Pathogen[ P14079] interacts with 2 human partners:{P48443;P28702}

733 Pathogen[ P03383] interacts with 1 human partners:{P28702}

734 Pathogen[ P03410] interacts with 1 human partners:{P28702}

735 Pathogen[ P14075] interacts with 1 human partners:{P28702}

736 Pathogen[ P0C206] interacts with 2 human partners:{P28702;P48443}

737 Pathogen[ P03363] interacts with 1 human partners:{P28702}

738 [Cluster 138]GO:0005497+F molecular\_function [name] androgen binding [def] "Interacting selectively and non-covalently with any androgen, male sex hormones." [CHEBI

739 Pathogen[ P14079] interacts with 1 human partners:{O75556}

740 Pathogen[ P14075] interacts with 1 human partners:{O75556}

741 [Cluster 139]GO:0050839+F molecular\_function [name] cell adhesion molecule binding [def] "Interacting selectively and non-covalently with a cell adhesion molecule." [GOC

742 Pathogen[ P03346] interacts with 2 human partners:{P55196;P26038}

743 Pathogen[ P14079] interacts with 1 human partners:{P26038}

744 Pathogen[ P03410] interacts with 1 human partners:{P26038}

745 Pathogen[ P0C206] interacts with 1 human partners:{P55196}

746 [Cluster 140]GO:0004514+F molecular\_function [name] nicotinate-nucleotide diphosphorylase (carboxylating) activity [def] "Catalysis of the reaction

747 Pathogen[ Q2Q067] interacts with 1 human partners:{Q6XQN6}

748 Pathogen[ P0C214] interacts with 3 human partners:{Q6XQN6;Q15274;P43490}

749 Pathogen[ P03346] interacts with 1 human partners:{Q6XQN6}

750 Pathogen[ Q85601] interacts with 1 human partners:{Q6XQN6}

751 Pathogen[ P14079] interacts with 3 human partners:{P43490;Q6XQN6;Q15274}

752 Pathogen[ P03410] interacts with 3 human partners:{Q15274;Q6XQN6;P43490}

753 Pathogen[ P14075] interacts with 1 human partners:{Q6XQN6}

754 Pathogen[ P0C206] interacts with 3 human partners:{Q6XQN6;P43490;Q15274}

755 Pathogen[ P03363] interacts with 1 human partners:{Q6XQN6}

756 [Cluster 141]GO:0004364+F molecular\_function [name] glutathione transferase activity [def] "Catalysis of the reaction

757 Pathogen[ Q2Q067] interacts with 3 human partners:{P0CG30;P0CG29;O43708}

758 Pathogen[ P0C214] interacts with 3 human partners:{P0CG30;O43708;P0CG29}

759 Pathogen[ P03346] interacts with 3 human partners:{P0CG30;P0CG29;O43708}  
760 Pathogen[ Q85601] interacts with 3 human partners:{O43708;P0CG29;P0CG30}  
761 Pathogen[ P14079] interacts with 4 human partners:{Q16873;P20292;O43708;P10620}  
762 Pathogen[ P03410] interacts with 5 human  
partners:{P0CG30;P0CG29;O43708;Q16873;P20292}  
763 Pathogen[ P0C206] interacts with 4 human partners:{P0CG29;O43708;P20292;P0CG30}  
764 Pathogen[ P03363] interacts with 3 human partners:{P0CG30;P0CG29;O43708}  
765 [Cluster 142]GO:0004660+F molecular\_function [name] protein farnesyltransferase  
activity [def] "Catalysis of the reaction  
766 Pathogen[ Q2Q067] interacts with 2 human partners:{P49356;P49354}  
767 Pathogen[ P0C214] interacts with 2 human partners:{P49354;P49356}  
768 Pathogen[ P03346] interacts with 2 human partners:{P49354;P49356}  
769 Pathogen[ Q85601] interacts with 2 human partners:{P49354;P49356}  
770 Pathogen[ P14079] interacts with 2 human partners:{P49354;P49356}  
771 Pathogen[ P03410] interacts with 2 human partners:{P49354;P49356}  
772 Pathogen[ P0C206] interacts with 2 human partners:{P49354;P49356}  
773 Pathogen[ P03363] interacts with 1 human partners:{P49354}  
774 [Cluster 143]GO:0030697+F molecular\_function [name] S-adenosylmethionine-dependent  
tRNA (m5U54) methyltransferase activity [def] "Catalysis of the transfer of a methyl  
group from S-adenosyl-L-methionine to the C5 atom of the uridine residue at position 54  
in a tRNA molecule." [ISBN  
775 Pathogen[ P03346] interacts with 1 human partners:{Q96GJ1}  
776 Pathogen[ P14079] interacts with 1 human partners:{Q96GJ1}  
777 Pathogen[ P03410] interacts with 1 human partners:{Q96GJ1}  
778 Pathogen[ P0C206] interacts with 1 human partners:{Q96GJ1}  
779 [Cluster 144]GO:0042292+F molecular\_function [name] URM1 activating enzyme activity  
[def] "Catalysis of the activation of the small ubiquitin-related modifier URM1, through  
the formation of an ATP-dependent high-energy thiolester bond." [GOC  
780 Pathogen[ P0C214] interacts with 1 human partners:{O95396}  
781 Pathogen[ P0C206] interacts with 1 human partners:{O95396}  
782 [Cluster 145]GO:0042835+F molecular\_function [name] BRE binding [def] "Interacting  
selectively and non-covalently with the RNA element BRE (Bruno response element)." [PMID  
783 Pathogen[ P03346] interacts with 1 human partners:{Q92879}  
784 Pathogen[ P03363] interacts with 1 human partners:{Q92879}  
785 [Cluster 146]GO:0030348+F molecular\_function [name] syntaxin-3 binding [def]  
"Interacting selectively and non-covalently with the SNAP receptor syntaxin-3." [GOC  
786 Pathogen[ Q2Q067] interacts with 1 human partners:{Q15833}  
787 Pathogen[ P0C214] interacts with 1 human partners:{Q15833}  
788 Pathogen[ P03346] interacts with 1 human partners:{Q15833}  
789 Pathogen[ Q85601] interacts with 1 human partners:{Q15833}  
790 Pathogen[ P14079] interacts with 1 human partners:{Q15833}  
791 Pathogen[ P03410] interacts with 1 human partners:{Q15833}  
792 Pathogen[ P0C206] interacts with 1 human partners:{Q15833}  
793 Pathogen[ P03363] interacts with 1 human partners:{Q15833}  
794 [Cluster 147]GO:0004813+F molecular\_function [name] alanine-tRNA ligase activity [def]  
"Catalysis of the reaction  
795 Pathogen[ P0C214] interacts with 3 human partners:{Q5JTZ9;Q9BTE6;P49588}  
796 Pathogen[ P14079] interacts with 2 human partners:{Q9BTE6;P49588}  
797 Pathogen[ P03383] interacts with 1 human partners:{Q9BTE6}  
798 Pathogen[ P03410] interacts with 2 human partners:{Q9BTE6;P49588}  
799 Pathogen[ P14075] interacts with 1 human partners:{Q9BTE6}  
800 Pathogen[ P0C206] interacts with 1 human partners:{Q9BTE6}  
801 Pathogen[ P03363] interacts with 1 human partners:{Q9BTE6}  
802 [Cluster 148]GO:0072572+F molecular\_function [name] poly-ADP-D-ribose binding [def]  
"Interacting selectively and non-covalently with polymeric ADP-D-ribose, a polymer that  
is composed of poly-ADP-D-ribose units linked through 1,2-glycosidic bonds at the ribose  
ring." [CHEBI  
803 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NTX7}  
804 Pathogen[ P0C214] interacts with 1 human partners:{Q9NTX7}  
805 Pathogen[ P03346] interacts with 1 human partners:{Q9NTX7}  
806 Pathogen[ Q85601] interacts with 1 human partners:{Q9NTX7}  
807 Pathogen[ P03383] interacts with 1 human partners:{Q9NTX7}  
808 Pathogen[ P14075] interacts with 1 human partners:{Q9NTX7}  
809 Pathogen[ P0C206] interacts with 1 human partners:{Q9NTX7}  
810 Pathogen[ P03363] interacts with 1 human partners:{Q9NTX7}  
811 [Cluster 149]GO:0008448+F molecular\_function [name] N-acetylglucosamine-6-phosphate  
deacetylase activity [def] "Catalysis of the reaction  
812 Pathogen[ P14079] interacts with 1 human partners:{Q9Y303}  
813 [Cluster 150]GO:0030792+F molecular\_function [name] methylarsonite methyltransferase  
activity [def] "Catalysis of the reaction  
814 Pathogen[ P0C214] interacts with 1 human partners:{Q9HBK9}  
815 Pathogen[ P03346] interacts with 1 human partners:{Q9HBK9}  
816 Pathogen[ P14079] interacts with 1 human partners:{Q9HBK9}  
817 Pathogen[ P03410] interacts with 1 human partners:{Q9HBK9}  
818 Pathogen[ P0C206] interacts with 1 human partners:{Q9HBK9}  
819 Pathogen[ P03363] interacts with 1 human partners:{Q9HBK9}

820 [Cluster 151]GO:0016742+F molecular\_function [name] hydroxymethyl-, formyl- and related transferase activity [def] "Catalysis of the transfer of a hydroxymethyl- or formyl group from one compound (donor) to another (acceptor)." [EC

821 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96DP5}

822 Pathogen[ P0C214] interacts with 1 human partners:{Q96DP5}

823 Pathogen[ P03346] interacts with 1 human partners:{Q96DP5}

824 Pathogen[ P14079] interacts with 1 human partners:{Q96DP5}

825 Pathogen[ P03383] interacts with 1 human partners:{Q96DP5}

826 Pathogen[ P03410] interacts with 1 human partners:{Q96DP5}

827 Pathogen[ P14075] interacts with 1 human partners:{Q96DP5}

828 Pathogen[ P0C206] interacts with 1 human partners:{Q96DP5}

829 [Cluster 152]GO:0043395+F molecular\_function [name] heparan sulfate proteoglycan binding [def] "Interacting selectively and non-covalently with a heparan sulfate proteoglycan, any proteoglycan containing heparan sulfate as the glycosaminoglycan carbohydrate unit." [ISBN

830 Pathogen[ P03363] interacts with 1 human partners:{P19883}

831 [Cluster 153]GO:0016422+F molecular\_function [name] mRNA (2'-O-methyladenosine-N6-)-methyltransferase activity [def] "Catalysis of the reaction

832 Pathogen[ P0C214] interacts with 1 human partners:{Q9HCE5}

833 Pathogen[ P03346] interacts with 2 human partners:{Q9HCE5;Q86U44}

834 Pathogen[ Q85601] interacts with 1 human partners:{Q9HCE5}

835 Pathogen[ P14079] interacts with 2 human partners:{Q9HCE5;Q86U44}

836 Pathogen[ P03410] interacts with 2 human partners:{Q9HCE5;Q86U44}

837 Pathogen[ P0C206] interacts with 1 human partners:{Q9HCE5}

838 Pathogen[ P03363] interacts with 2 human partners:{Q86U44;Q9HCE5}

839 [Cluster 154]GO:0043028+F molecular\_function [name] cysteine-type endopeptidase regulator activity involved in apoptotic process [def] "Modulates the activity of a cysteine-type endopeptidase involved in the apoptotic process." [GOC

840 Pathogen[ P03346] interacts with 1 human partners:{P58012}

841 [Cluster 155]GO:0008889+F molecular\_function [name] glycerophosphodiester phosphodiesterase activity [def] "Catalysis of the reaction

842 Pathogen[ P0C214] interacts with 1 human partners:{Q9NPB8}

843 Pathogen[ P14079] interacts with 1 human partners:{Q9NPB8}

844 Pathogen[ P03410] interacts with 1 human partners:{Q9NPB8}

845 Pathogen[ P0C206] interacts with 1 human partners:{Q9NPB8}

846 [Cluster 156]GO:0015095+F molecular\_function [name] magnesium ion transmembrane transporter activity [def] "Catalysis of the transfer of magnesium (Mg) ions from one side of a membrane to the other." [GOC

847 Pathogen[ P14079] interacts with 6 human partners:{Q6NVV3;Q0D2K0;Q9H841;Q8N8Q9;Q6P499;Q7RTP0}

848 Pathogen[ P03410] interacts with 6 human partners:{Q0D2K0;Q9H841;Q6NVV3;Q8N8Q9;Q7RTP0;Q6P499}

849 [Cluster 157]GO:0032408+F molecular\_function [name] MutSbeta complex binding [def] "Interacting selectively and non-covalently with the mismatch repair complex MutSbeta." [GOC

850 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UIF7}

851 Pathogen[ P0C214] interacts with 1 human partners:{Q9UIF7}

852 Pathogen[ P03346] interacts with 1 human partners:{Q9UIF7}

853 Pathogen[ Q85601] interacts with 1 human partners:{Q9UIF7}

854 Pathogen[ P14079] interacts with 1 human partners:{Q9UIF7}

855 Pathogen[ P03410] interacts with 1 human partners:{Q9UIF7}

856 Pathogen[ P14075] interacts with 1 human partners:{Q9UIF7}

857 Pathogen[ P0C206] interacts with 1 human partners:{Q9UIF7}

858 Pathogen[ P03363] interacts with 1 human partners:{Q9UIF7}

859 [Cluster 158]GO:0004497+F molecular\_function [name] monooxygenase activity [def] "Catalysis of the incorporation of one atom from molecular oxygen into a compound and the reduction of the other atom of oxygen to water." [http

860 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BU89}

861 Pathogen[ P0C214] interacts with 1 human partners:{Q9BU89}

862 Pathogen[ P03346] interacts with 2 human partners:{Q9BU89;Q8TDZ2}

863 Pathogen[ Q85601] interacts with 1 human partners:{Q9BU89}

864 Pathogen[ P14079] interacts with 2 human partners:{Q8TDZ2;Q9BU89}

865 Pathogen[ P03383] interacts with 1 human partners:{Q9BU89}

866 Pathogen[ P03410] interacts with 2 human partners:{Q9BU89;Q8TDZ2}

867 Pathogen[ P14075] interacts with 1 human partners:{Q9BU89}

868 Pathogen[ P0C206] interacts with 2 human partners:{Q8TDZ2;Q9BU89}

869 [Cluster 159]GO:0008802+F molecular\_function [name] betaine-aldehyde dehydrogenase activity [def] "Catalysis of the reaction

870 Pathogen[ Q2Q067] interacts with 1 human partners:{P49419}

871 Pathogen[ P0C214] interacts with 1 human partners:{P49419}

872 Pathogen[ P03346] interacts with 1 human partners:{P49419}

873 Pathogen[ Q85601] interacts with 1 human partners:{P49419}

874 Pathogen[ P03383] interacts with 1 human partners:{P49419}

875 Pathogen[ P03410] interacts with 1 human partners:{P49419}

876 Pathogen[ P14075] interacts with 1 human partners:{P49419}

877 Pathogen[ P0C206] interacts with 1 human partners:{P49419}



878 Pathogen[ P03363] interacts with 1 human partners:{P49419}

879 [Cluster 160]GO:0047464+F molecular\_function [name] heparosan-N-sulfate-glucuronate  
5-epimerase activity [def] "Catalysis of the reaction

880 Pathogen[ P14079] interacts with 1 human partners:{Q94923}

881 [Cluster 161]GO:0032406+F molecular\_function [name] MutLbeta complex binding [def]  
"Interacting selectively and non-covalently with the mismatch repair complex MutLbeta."  
[GOC

882 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UIF7}

883 Pathogen[ P0C214] interacts with 1 human partners:{Q9UIF7}

884 Pathogen[ P03346] interacts with 1 human partners:{Q9UIF7}

885 Pathogen[ Q85601] interacts with 1 human partners:{Q9UIF7}

886 Pathogen[ P14079] interacts with 1 human partners:{Q9UIF7}

887 Pathogen[ P03410] interacts with 1 human partners:{Q9UIF7}

888 Pathogen[ P14075] interacts with 1 human partners:{Q9UIF7}

889 Pathogen[ P0C206] interacts with 1 human partners:{Q9UIF7}

890 Pathogen[ P03363] interacts with 1 human partners:{Q9UIF7}

891 [Cluster 162]GO:0004776+F molecular\_function [name] succinate-CoA ligase (GDP-forming)  
activity [def] "Catalysis of the reaction

892 Pathogen[ P0C214] interacts with 1 human partners:{Q96I99}

893 [Cluster 163]GO:0042132+F molecular\_function [name] fructose 1,6-bisphosphate  
1-phosphatase activity [def] "Catalysis of the reaction

894 Pathogen[ Q2Q067] interacts with 1 human partners:{P09467}

895 Pathogen[ P0C214] interacts with 2 human partners:{P09467;O00757}

896 Pathogen[ P03346] interacts with 1 human partners:{P09467}

897 Pathogen[ Q85601] interacts with 2 human partners:{O00757;P09467}

898 Pathogen[ P14079] interacts with 1 human partners:{P09467}

899 Pathogen[ P03383] interacts with 1 human partners:{P09467}

900 Pathogen[ P03410] interacts with 2 human partners:{P09467;O00757}

901 Pathogen[ P14075] interacts with 1 human partners:{P09467}

902 Pathogen[ P0C206] interacts with 2 human partners:{P09467;O00757}

903 [Cluster 164]GO:0047946+F molecular\_function [name] glutamine N-acyltransferase  
activity [def] "Catalysis of the reaction

904 Pathogen[ P0C214] interacts with 1 human partners:{Q969I3}

905 Pathogen[ Q85601] interacts with 1 human partners:{Q969I3}

906 Pathogen[ P14079] interacts with 1 human partners:{Q969I3}

907 Pathogen[ P03383] interacts with 1 human partners:{Q969I3}

908 Pathogen[ P03410] interacts with 1 human partners:{Q969I3}

909 Pathogen[ P14075] interacts with 1 human partners:{Q969I3}

910 Pathogen[ P0C206] interacts with 1 human partners:{Q969I3}

911 [Cluster 165]GO:0043221+F molecular\_function [name] SMC protein binding [def]  
"Interacting selectively and non-covalently with any protein from the structural  
maintenance of chromosomes (SMC) family, a group of chromosomal ATPases with a role in  
mitotic chromosome organization." [GOC

912 Pathogen[ P03346] interacts with 1 human partners:{Q5XG87}

913 Pathogen[ Q85601] interacts with 1 human partners:{Q5XG87}

914 Pathogen[ P14079] interacts with 1 human partners:{Q5XG87}

915 Pathogen[ P03410] interacts with 1 human partners:{Q5XG87}

916 Pathogen[ P0C206] interacts with 1 human partners:{Q5XG87}

917 [Cluster 166]GO:0005229+F molecular\_function [name] intracellular calcium activated  
chloride channel activity [def] "Catalysis of the transmembrane transfer of chloride by  
a channel that opens in response to stimulus by a calcium ion or ions. Transport by a  
channel involves catalysis of facilitated diffusion of a solute (by an energy-independent  
process) involving passage through a transmembrane aqueous pore or channel, without  
evidence for a carrier-mediated mechanism." [GOC

918 Pathogen[ P14079] interacts with 1 human partners:{Q9NQ90}

919 Pathogen[ P03410] interacts with 1 human partners:{Q9NQ90}

920 Pathogen[ P0C206] interacts with 1 human partners:{Q9NQ90}

921 [Cluster 167]GO:0005113+F molecular\_function [name] patched binding [def]  
"Interacting selectively and non-covalently with the patched (ptc) protein, a receptor  
for hedgehog proteins." [GOC

922 Pathogen[ Q2Q067] interacts with 1 human partners:{P14635}

923 Pathogen[ P0C214] interacts with 1 human partners:{P14635}

924 Pathogen[ P03346] interacts with 1 human partners:{P14635}

925 Pathogen[ Q85601] interacts with 1 human partners:{P14635}

926 Pathogen[ P14079] interacts with 1 human partners:{P14635}

927 Pathogen[ P03383] interacts with 1 human partners:{P14635}

928 Pathogen[ P03410] interacts with 1 human partners:{P14635}

929 Pathogen[ P14075] interacts with 1 human partners:{P14635}

930 Pathogen[ P0C206] interacts with 1 human partners:{P14635}

931 [Cluster 168]GO:0004488+F molecular\_function [name] methylenetetrahydrofolate  
dehydrogenase (NADP+) activity [def] "Catalysis of the reaction

932 Pathogen[ P0C214] interacts with 1 human partners:{P11586}

933 [Cluster 169]GO:0070053+F molecular\_function [name] thrombospondin receptor activity  
[def] "Combining with thrombospondin to initiate a change in cell activity." [GOC

934 Pathogen[ P14079] interacts with 1 human partners:{Q08722}

935 Pathogen[ P03410] interacts with 1 human partners:{Q08722}

936 [Cluster 170]GO:0070140+F molecular\_function [name] SUMO-specific isopeptidase activity [def] "Catalysis of the hydrolysis of an isopeptide bond between the small conjugating protein SUMO and a protein to which SUMO has been conjugated." [GOC

937 Pathogen[ P14079] interacts with 1 human partners:{Q5W0Q7}

938 [Cluster 171]GO:0052840+F molecular\_function [name] inositol diphosphate tetrakisphosphate diphosphatase activity [def] "Catalysis of the reaction

939 Pathogen[ P0C214] interacts with 1 human partners:{O95989}

940 Pathogen[ Q85601] interacts with 1 human partners:{O95989}

941 Pathogen[ P14079] interacts with 4 human partners:{Q96G61;O95989;Q8NFP7;Q9NZJ9}

942 Pathogen[ P03383] interacts with 1 human partners:{O95989}

943 Pathogen[ P03410] interacts with 4 human partners:{Q8NFP7;Q9NZJ9;O95989;Q96G61}

944 Pathogen[ P14075] interacts with 1 human partners:{O95989}

945 Pathogen[ P0C206] interacts with 2 human partners:{O95989;Q8NFP7}

946 [Cluster 172]GO:0008532+F molecular\_function [name] N-acetyllactosaminide beta-1,3-N-acetylglucosaminyltransferase activity [def] "Catalysis of the reaction

947 Pathogen[ P14079] interacts with 1 human partners:{O43505}

948 Pathogen[ P03410] interacts with 1 human partners:{O43505}

949 Pathogen[ P14075] interacts with 1 human partners:{O43505}

950 Pathogen[ P0C206] interacts with 1 human partners:{O43505}

951 [Cluster 173]GO:0031780+F molecular\_function [name] corticotropin hormone receptor binding [def] "Interacting selectively and non-covalently with a corticotropin hormone receptor." [GOC

952 Pathogen[ P14079] interacts with 2 human partners:{Q96G30;Q8TCY5}

953 Pathogen[ P03410] interacts with 1 human partners:{Q96G30}

954 [Cluster 174]GO:0031702+F molecular\_function [name] type 1 angiotensin receptor binding [def] "Interacting selectively and non-covalently with a type 1 angiotensin receptor." [GOC

955 Pathogen[ Q2Q067] interacts with 1 human partners:{P62879}

956 Pathogen[ P0C214] interacts with 1 human partners:{P62879}

957 Pathogen[ P03346] interacts with 1 human partners:{P62879}

958 Pathogen[ Q85601] interacts with 1 human partners:{P62879}

959 Pathogen[ P03383] interacts with 1 human partners:{P62879}

960 Pathogen[ P03410] interacts with 1 human partners:{P62879}

961 Pathogen[ P14075] interacts with 1 human partners:{P62879}

962 Pathogen[ P0C206] interacts with 1 human partners:{P62879}

963 Pathogen[ P03363] interacts with 1 human partners:{P62879}

964 [Cluster 175]GO:0004040+F molecular\_function [name] amidase activity [def] "Catalysis of the reaction

965 Pathogen[ P14079] interacts with 1 human partners:{O00519}

966 Pathogen[ P03410] interacts with 1 human partners:{O00519}

967 [Cluster 176]GO:0034236+F molecular\_function [name] protein kinase A catalytic subunit binding [def] "Interacting selectively and non-covalently with one or both of the catalytic subunits of protein kinase A." [GOC

968 Pathogen[ P03346] interacts with 1 human partners:{Q9UKA4}

969 Pathogen[ P14079] interacts with 1 human partners:{Q9UKA4}

970 Pathogen[ P03410] interacts with 1 human partners:{Q9UKA4}

971 Pathogen[ P0C206] interacts with 1 human partners:{Q9UKA4}

972 [Cluster 177]GO:0052845+F molecular\_function [name] inositol-5-diphosphate-1,2,3,4,6-pentakisphosphate diphosphatase activity [def] "Catalysis of the reaction

973 Pathogen[ P0C214] interacts with 1 human partners:{O95989}

974 Pathogen[ Q85601] interacts with 1 human partners:{O95989}

975 Pathogen[ P14079] interacts with 4 human partners:{Q96G61;O95989;Q8NFP7;Q9NZJ9}

976 Pathogen[ P03383] interacts with 1 human partners:{O95989}

977 Pathogen[ P03410] interacts with 4 human partners:{Q8NFP7;Q9NZJ9;O95989;Q96G61}

978 Pathogen[ P14075] interacts with 1 human partners:{O95989}

979 Pathogen[ P0C206] interacts with 2 human partners:{O95989;Q8NFP7}

980 [Cluster 178]GO:0000701+F molecular\_function [name] purine-specific mismatch base pair DNA N-glycosylase activity [def] "Catalysis of the removal of purines present in mismatches, especially opposite oxidized purines, by cleaving the N-C1' glycosidic bond between the target damaged DNA base and the deoxyribose sugar. The reaction releases a free base and leaves an apurinic (AP) site." [GOC

981 Pathogen[ Q2Q067] interacts with 1 human partners:{P12004}

982 Pathogen[ P03346] interacts with 1 human partners:{P12004}

983 Pathogen[ Q85601] interacts with 1 human partners:{P12004}

984 Pathogen[ P14079] interacts with 1 human partners:{P12004}

985 Pathogen[ P03410] interacts with 1 human partners:{P12004}

986 Pathogen[ P0C206] interacts with 1 human partners:{P12004}

987 [Cluster 179]GO:0051635+F molecular\_function [name] bacterial cell surface binding [def] "Interacting selectively and non-covalently with any component on the surface of a bacterial cell." [GOC

988 Pathogen[ P14079] interacts with 2 human partners:{Q14242;Q14118}

989 Pathogen[ P03410] interacts with 2 human partners:{Q14242;Q14118}

990 [Cluster 180]GO:0004396+F molecular\_function [name] hexokinase activity [def] "Catalysis of the reaction

991 Pathogen[ Q2Q067] interacts with 1 human partners:{P19367}

992 Pathogen[ P0C214] interacts with 1 human partners:{P19367}  
 993 Pathogen[ P03346] interacts with 1 human partners:{P19367}  
 994 Pathogen[ Q85601] interacts with 1 human partners:{P19367}  
 995 Pathogen[ P03383] interacts with 1 human partners:{P19367}  
 996 Pathogen[ P14075] interacts with 1 human partners:{P19367}  
 997 Pathogen[ P0C206] interacts with 1 human partners:{P19367}  
 998 [Cluster 181]GO:0004486+F molecular\_function [name] methylenetetrahydrofolate  
 dehydrogenase [NAD(P)+] activity [def] "Catalysis of the reaction  
 999 Pathogen[ P0C214] interacts with 1 human partners:{P11586}  
 1000 [Cluster 182]GO:0051636+F molecular\_function [name] Gram-negative bacterial cell  
 surface binding [def] "Interacting selectively and non-covalently with any component on  
 the surface of a Gram-negative bacterial cell." [GOC  
 1001 Pathogen[ P14079] interacts with 1 human partners:{Q04118}  
 1002 Pathogen[ P03410] interacts with 1 human partners:{Q04118}  
 1003 [Cluster 183]GO:0004807+F molecular\_function [name] triose-phosphate isomerase  
 activity [def] "Catalysis of the reaction  
 1004 Pathogen[ Q2Q067] interacts with 1 human partners:{P60174}  
 1005 Pathogen[ P0C214] interacts with 1 human partners:{P60174}  
 1006 Pathogen[ P03346] interacts with 1 human partners:{P60174}  
 1007 Pathogen[ Q85601] interacts with 1 human partners:{P60174}  
 1008 Pathogen[ P0C206] interacts with 1 human partners:{P60174}  
 1009 [Cluster 184]GO:0070736+F molecular\_function [name] protein-glycine ligase activity,  
 initiating [def] "Catalysis of the posttranslational transfer of a glycine residue to  
 the gamma-carboxyl group(s) of one or more specific glutamate residues on a target  
 protein." [GOC  
 1010 Pathogen[ P14079] interacts with 2 human partners:{Q9Y4R7;A6PVC2}  
 1011 Pathogen[ P03410] interacts with 2 human partners:{Q9Y4R7;A6PVC2}  
 1012 [Cluster 185]GO:0030731+F molecular\_function [name] guanidinoacetate  
 N-methyltransferase activity [def] "Catalysis of the reaction  
 1013 Pathogen[ P14079] interacts with 1 human partners:{Q14353}  
 1014 Pathogen[ P03410] interacts with 1 human partners:{Q14353}  
 1015 [Cluster 186]GO:0016765+F molecular\_function [name] transferase activity, transferring  
 alkyl or aryl (other than methyl) groups [def] "Catalysis of the transfer of an alkyl  
 or aryl (but not methyl) group from one compound (donor) to another (acceptor)." [GOC  
 1016 Pathogen[ P0C214] interacts with 1 human partners:{Q86SQ9}  
 1017 Pathogen[ P03346] interacts with 1 human partners:{Q86SQ9}  
 1018 Pathogen[ Q85601] interacts with 1 human partners:{Q86SQ9}  
 1019 Pathogen[ P14079] interacts with 1 human partners:{Q86SQ9}  
 1020 Pathogen[ P03410] interacts with 1 human partners:{Q86SQ9}  
 1021 Pathogen[ P0C206] interacts with 1 human partners:{Q86SQ9}  
 1022 [Cluster 187]GO:0004712+F molecular\_function [name] protein serine/threonine/tyrosine  
 kinase activity [def] "Catalysis of the reactions  
 1023 Pathogen[ P03346] interacts with 1 human partners:{O14965}  
 1024 Pathogen[ Q85601] interacts with 1 human partners:{O14965}  
 1025 Pathogen[ P14079] interacts with 1 human partners:{O14965}  
 1026 Pathogen[ P03383] interacts with 1 human partners:{O14965}  
 1027 Pathogen[ P03410] interacts with 1 human partners:{O14965}  
 1028 Pathogen[ P14075] interacts with 1 human partners:{O14965}  
 1029 Pathogen[ P0C206] interacts with 1 human partners:{O14965}  
 1030 [Cluster 188]GO:0048270+F molecular\_function [name] methionine adenosyltransferase  
 regulator activity [def] "Modulates the activity of methionine adenosyltransferase." [EC  
 1031 Pathogen[ P0C214] interacts with 1 human partners:{Q9NZL9}  
 1032 Pathogen[ P03346] interacts with 1 human partners:{Q9NZL9}  
 1033 Pathogen[ P14079] interacts with 1 human partners:{Q9NZL9}  
 1034 Pathogen[ P03410] interacts with 1 human partners:{Q9NZL9}  
 1035 Pathogen[ P0C206] interacts with 1 human partners:{Q9NZL9}  
 1036 [Cluster 189]GO:0047977+F molecular\_function [name] hepxilin-epoxide hydrolase  
 activity [def] "Catalysis of the reaction  
 1037 Pathogen[ P0C214] interacts with 1 human partners:{P18054}  
 1038 Pathogen[ P03346] interacts with 1 human partners:{P18054}  
 1039 [Cluster 190]GO:0047389+F molecular\_function [name] glycerophosphocholine  
 phosphodiesterase activity [def] "Catalysis of the reaction  
 1040 Pathogen[ P0C214] interacts with 1 human partners:{Q9NPB8}  
 1041 Pathogen[ P14079] interacts with 1 human partners:{Q9NPB8}  
 1042 Pathogen[ P03410] interacts with 1 human partners:{Q9NPB8}  
 1043 Pathogen[ P0C206] interacts with 1 human partners:{Q9NPB8}  
 1044 [Cluster 191]GO:0001512+F molecular\_function [name] dihydronicotinamide riboside  
 quinone reductase activity [def] "Catalysis of the reaction  
 1045 Pathogen[ P0C214] interacts with 1 human partners:{P16083}  
 1046 Pathogen[ P03346] interacts with 1 human partners:{P16083}  
 1047 Pathogen[ P14079] interacts with 1 human partners:{P16083}  
 1048 Pathogen[ P03410] interacts with 1 human partners:{P16083}  
 1049 Pathogen[ P0C206] interacts with 1 human partners:{P16083}  
 1050 [Cluster 192]GO:0015077+F molecular\_function [name] monovalent inorganic cation  
 transmembrane transporter activity [def] "Catalysis of the transfer of a inorganic  
 cations with a valency of one from one side of a membrane to the other. Inorganic cations

are atoms or small molecules with a positive charge that do not contain carbon in covalent linkage." [GOC

1051 Pathogen[ P14079] interacts with 1 human partners:{Q9UN42}

1052 Pathogen[ P03410] interacts with 1 human partners:{Q9UN42}

1053 Pathogen[ P0C206] interacts with 1 human partners:{Q9UN42}

1054 [Cluster 193]GO:0016614+F molecular\_function [name] oxidoreductase activity, acting on CH-OH group of donors [def] "Catalysis of an oxidation-reduction (redox) reaction in which a CH-OH group act as a hydrogen or electron donor and reduces a hydrogen or electron acceptor." [GOC

1055 Pathogen[ P0C214] interacts with 3 human partners:{Q8N335;Q86WU2;P21695}

1056 Pathogen[ P03346] interacts with 1 human partners:{Q86WU2}

1057 Pathogen[ P14079] interacts with 2 human partners:{Q86WU2;P21695}

1058 Pathogen[ P03410] interacts with 2 human partners:{P21695;Q86WU2}

1059 Pathogen[ P0C206] interacts with 1 human partners:{Q86WU2}

1060 [Cluster 194]GO:0004089+F molecular\_function [name] carbonate dehydratase activity [def] "Catalysis of the reaction

1061 Pathogen[ P14079] interacts with 2 human partners:{Q8WTZ4;P00915}

1062 Pathogen[ P03410] interacts with 1 human partners:{Q8WTZ4}

1063 Pathogen[ P0C206] interacts with 2 human partners:{P00915;Q8WTZ4}

1064 [Cluster 195]GO:0047150+F molecular\_function [name] betaine-homocysteine S-methyltransferase activity [def] "Catalysis of the reaction

1065 Pathogen[ P14079] interacts with 1 human partners:{Q9H2M3}

1066 Pathogen[ P03410] interacts with 1 human partners:{Q9H2M3}

1067 Pathogen[ P0C206] interacts with 1 human partners:{Q9H2M3}

1068 [Cluster 196]GO:0035402+F molecular\_function [name] histone kinase activity (H3-T11 specific) [def] "Catalysis of the transfer of a phosphate group to the threonine-11 residue of the N-terminal tail of histone H3." [GOC

1069 Pathogen[ Q2Q067] interacts with 1 human partners:{O14757}

1070 Pathogen[ P0C214] interacts with 1 human partners:{O14757}

1071 Pathogen[ P03346] interacts with 1 human partners:{O14757}

1072 Pathogen[ Q85601] interacts with 1 human partners:{O14757}

1073 Pathogen[ P03383] interacts with 1 human partners:{O14757}

1074 Pathogen[ P03410] interacts with 1 human partners:{O14757}

1075 Pathogen[ P14075] interacts with 1 human partners:{O14757}

1076 Pathogen[ P03363] interacts with 1 human partners:{O14757}

1077 [Cluster 197]GO:0045031+F molecular\_function [name] ATP-activated nucleotide receptor activity [def] "Combining with adenosine and transmitting the signal to a heterotrimeric G-protein complex to initiate a change in cell activity, activated by ATP." [GOC

1078 Pathogen[ Q2Q067] interacts with 1 human partners:{P78352}

1079 Pathogen[ P0C214] interacts with 1 human partners:{P78352}

1080 Pathogen[ P03346] interacts with 1 human partners:{P78352}

1081 Pathogen[ Q85601] interacts with 1 human partners:{P78352}

1082 Pathogen[ P03383] interacts with 1 human partners:{P78352}

1083 Pathogen[ P03410] interacts with 1 human partners:{P78352}

1084 Pathogen[ P14075] interacts with 1 human partners:{P78352}

1085 Pathogen[ P0C206] interacts with 1 human partners:{P78352}

1086 Pathogen[ P03363] interacts with 1 human partners:{P78352}

1087 [Cluster 198]GO:0047961+F molecular\_function [name] glycine N-acyltransferase activity [def] "Catalysis of the reaction

1088 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8WU03}

1089 Pathogen[ P0C214] interacts with 4 human partners:{Q8WU03;Q5SZD4;Q969I3;Q6IB77}

1090 Pathogen[ P03346] interacts with 2 human partners:{Q8WU03;Q5SZD4}

1091 Pathogen[ Q85601] interacts with 4 human partners:{Q5SZD4;Q8WU03;Q6IB77;Q969I3}

1092 Pathogen[ P14079] interacts with 3 human partners:{Q5SZD4;Q969I3;Q6IB77}

1093 Pathogen[ P03383] interacts with 3 human partners:{Q8WU03;Q969I3;Q5SZD4}

1094 Pathogen[ P03410] interacts with 4 human partners:{Q6IB77;Q5SZD4;Q969I3;Q8WU03}

1095 Pathogen[ P14075] interacts with 3 human partners:{Q5SZD4;Q8WU03;Q969I3}

1096 Pathogen[ P0C206] interacts with 4 human partners:{Q969I3;Q6IB77;Q8WU03;Q5SZD4}

1097 [Cluster 199]GO:0004126+F molecular\_function [name] cytidine deaminase activity [def] "Catalysis of the reaction

1098 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9GZX7;Q9HC16}

1099 Pathogen[ P0C214] interacts with 2 human partners:{Q9HC16;Q9GZX7}

1100 Pathogen[ Q85601] interacts with 2 human partners:{Q9HC16;Q9GZX7}

1101 Pathogen[ P14079] interacts with 4 human partners:{P41238;P31941;Q9HC16;Q9GZX7}

1102 Pathogen[ P03410] interacts with 5 human partners:{P41238;Q9HC16;Q9GZX7;P31941;Q6NTF7}

1103 Pathogen[ P0C206] interacts with 5 human partners:{Q9GZX7;P31941;Q6NTF7;Q9HC16;P41238}

1104 [Cluster 200]GO:0008815+F molecular\_function [name] citrate (pro-3S)-lyase activity [def] "Catalysis of the reaction

1105 Pathogen[ P14079] interacts with 1 human partners:{Q8N0X4}

1106 Pathogen[ P03410] interacts with 1 human partners:{Q8N0X4}

1107 [Cluster 201]GO:0034617+F molecular\_function [name] tetrahydrobiopterin binding [def] "Interacting selectively and non-covalently with a tetrahydrobiopterin, 5,6,7,8-tetrahydrobiopterin or a derivative thereof\_ tetrahydrobiopterins are enzyme

cofactors that carry electrons in redox reactions." [CHEBI

1108 Pathogen[ Q2Q067] interacts with 1 human partners:{P29474}

1109 Pathogen[ P0C214] interacts with 1 human partners:{P29474}

1110 Pathogen[ P03346] interacts with 1 human partners:{P29474}

1111 Pathogen[ Q85601] interacts with 1 human partners:{P29474}

1112 Pathogen[ P03383] interacts with 1 human partners:{P29474}

1113 Pathogen[ P03410] interacts with 1 human partners:{P29474}

1114 Pathogen[ P14075] interacts with 1 human partners:{P29474}

1115 Pathogen[ P0C206] interacts with 1 human partners:{P29474}

1116 Pathogen[ P03363] interacts with 1 human partners:{P29474}

1117 [Cluster 202]GO:0042602+F molecular\_function [name] flavin reductase activity [def]  
 "Catalysis of the reaction

1118 Pathogen[ P0C214] interacts with 1 human partners:{P30043}

1119 [Cluster 203]GO:0047631+F molecular\_function [name] ADP-ribose diphosphatase activity  
 [def] "Catalysis of the reaction

1120 Pathogen[ P0C214] interacts with 1 human partners:{Q3LIE5}

1121 Pathogen[ Q85601] interacts with 1 human partners:{Q3LIE5}

1122 Pathogen[ P14079] interacts with 2 human partners:{Q3LIE5;Q9UKK9}

1123 Pathogen[ P03410] interacts with 2 human partners:{Q9UKK9;Q3LIE5}

1124 Pathogen[ P0C206] interacts with 1 human partners:{Q3LIE5}

1125 [Cluster 204]GO:0052381+F molecular\_function [name] tRNA dimethylallyltransferase  
 activity [def] "Catalysis of the reaction

1126 Pathogen[ P0C214] interacts with 1 human partners:{Q9H3H1}

1127 Pathogen[ P14079] interacts with 1 human partners:{Q9H3H1}

1128 Pathogen[ P03410] interacts with 1 human partners:{Q9H3H1}

1129 Pathogen[ P14075] interacts with 1 human partners:{Q9H3H1}

1130 Pathogen[ P0C206] interacts with 1 human partners:{Q9H3H1}

1131 [Cluster 205]GO:0071253+F molecular\_function [name] connexin binding [def]  
 "Interacting selectively and non-covalently with a connexin, any of a group of related  
 proteins that assemble to form gap junctions." [GOC

1132 Pathogen[ P14079] interacts with 1 human partners:{Q6PJW8}

1133 Pathogen[ P03410] interacts with 1 human partners:{Q6PJW8}

1134 Pathogen[ P0C206] interacts with 1 human partners:{Q6PJW8}

1135 [Cluster 206]GO:0034701+F molecular\_function [name] tripeptidase activity [def]  
 "Catalysis of the hydrolysis of a tripeptide." [GOC

1136 Pathogen[ P14079] interacts with 1 human partners:{Q96KP4}

1137 [Cluster 207]GO:0030251+F molecular\_function [name] guanylate cyclase inhibitor  
 activity [def] "Stops, prevents or reduces the activity of guanylate cyclase." [GOC

1138 Pathogen[ P03346] interacts with 1 human partners:{Q86UT5}

1139 Pathogen[ P14079] interacts with 1 human partners:{Q86UT5}

1140 Pathogen[ P03410] interacts with 1 human partners:{Q86UT5}

1141 Pathogen[ P0C206] interacts with 1 human partners:{Q86UT5}

1142 Pathogen[ P03363] interacts with 1 human partners:{Q86UT5}

1143 [Cluster 208]GO:0005098+F molecular\_function [name] Ran GTPase activator activity  
 [def] "Increases the rate of GTP hydrolysis by a GTPase of the Ran family." [GOC

1144 Pathogen[ P0C214] interacts with 1 human partners:{P46060}

1145 Pathogen[ P03346] interacts with 1 human partners:{P46060}

1146 Pathogen[ Q85601] interacts with 1 human partners:{P46060}

1147 Pathogen[ P14079] interacts with 1 human partners:{P46060}

1148 Pathogen[ P03410] interacts with 1 human partners:{P46060}

1149 Pathogen[ P0C206] interacts with 1 human partners:{P46060}

1150 Pathogen[ P03363] interacts with 1 human partners:{P46060}

1151 [Cluster 209]GO:0005149+F molecular\_function [name] interleukin-1 receptor binding  
 [def] "Interacting selectively and non-covalently with the interleukin-1 receptor." [GOC

1152 Pathogen[ Q2Q067] interacts with 1 human partners:{Q15654}

1153 Pathogen[ P0C214] interacts with 1 human partners:{Q15654}

1154 Pathogen[ P03346] interacts with 1 human partners:{Q15654}

1155 Pathogen[ Q85601] interacts with 1 human partners:{Q15654}

1156 Pathogen[ P03383] interacts with 1 human partners:{Q15654}

1157 Pathogen[ P03410] interacts with 1 human partners:{Q15654}

1158 Pathogen[ P14075] interacts with 1 human partners:{Q15654}

1159 Pathogen[ P0C206] interacts with 1 human partners:{Q15654}

1160 Pathogen[ P03363] interacts with 1 human partners:{Q15654}

1161 [Cluster 210]GO:0004115+F molecular\_function [name] 3',5'-cyclic-AMP phosphodiesterase  
 activity [def] "Catalysis of the reaction

1162 Pathogen[ Q2Q067] interacts with 1 human partners:{P27815}

1163 Pathogen[ P0C214] interacts with 2 human partners:{P27815;Q07343}

1164 Pathogen[ P03346] interacts with 1 human partners:{P27815}

1165 Pathogen[ Q85601] interacts with 1 human partners:{P27815}

1166 Pathogen[ P14079] interacts with 1 human partners:{P27815}

1167 Pathogen[ P03410] interacts with 1 human partners:{P27815}

1168 Pathogen[ P0C206] interacts with 1 human partners:{P27815}

1169 Pathogen[ P03363] interacts with 1 human partners:{P27815}

1170 [Cluster 211]GO:0003921+F molecular\_function [name] GMP synthase activity [def]  
 "Catalysis of the reaction

1171 Pathogen[ P14079] interacts with 1 human partners:{P49915}

1172 Pathogen[ P03410] interacts with 1 human partners:{P49915}

1173 [Cluster 212]GO:0008235+F molecular\_function [name] metalloexopeptidase activity [def] "Catalysis of the hydrolysis of a peptide bond not more than three residues from the N- or C-terminus of a polypeptide chain by a mechanism in which water acts as a nucleophile, one or two metal ions hold the water molecule in place, and charged amino acid side chains are ligands for the metal ions." [GOC

1174 Pathogen[ Q2Q067] interacts with 1 human partners:{P28838}

1175 Pathogen[ P0C214] interacts with 1 human partners:{P28838}

1176 Pathogen[ P14079] interacts with 2 human partners:{P28838;Q8NDH3}

1177 Pathogen[ P03383] interacts with 1 human partners:{P28838}

1178 Pathogen[ P03410] interacts with 2 human partners:{Q8NDH3;P28838}

1179 Pathogen[ P14075] interacts with 1 human partners:{P28838}

1180 Pathogen[ P0C206] interacts with 2 human partners:{P28838;Q8NDH3}

1181 [Cluster 213]GO:0004109+F molecular\_function [name] coproporphyrinogen oxidase activity [def] "Catalysis of the reaction

1182 Pathogen[ P0C214] interacts with 2 human partners:{Q9HA92;P36551}

1183 Pathogen[ P14079] interacts with 2 human partners:{Q9HA92;P36551}

1184 Pathogen[ P03410] interacts with 2 human partners:{P36551;Q9HA92}

1185 Pathogen[ P0C206] interacts with 2 human partners:{Q9HA92;P36551}

1186 [Cluster 214]GO:0004367+F molecular\_function [name] glycerol-3-phosphate dehydrogenase [NAD+] activity [def] "Catalysis of the reaction

1187 Pathogen[ P0C214] interacts with 2 human partners:{Q8N335;P21695}

1188 Pathogen[ P14079] interacts with 1 human partners:{P21695}

1189 Pathogen[ P03410] interacts with 1 human partners:{P21695}

1190 [Cluster 215]GO:0019103+F molecular\_function [name] pyrimidine nucleotide binding [def] "Interacting selectively and non-covalently with pyrimidine nucleotide, any compound consisting of a pyrimidine nucleoside esterified with (ortho)phosphate." [GOC

1191 Pathogen[ P0C214] interacts with 1 human partners:{Q8TCD5}

1192 Pathogen[ P14079] interacts with 1 human partners:{Q8TCD5}

1193 Pathogen[ P03410] interacts with 1 human partners:{Q8TCD5}

1194 Pathogen[ P0C206] interacts with 1 human partners:{Q8TCD5}

1195 [Cluster 216]GO:0019135+F molecular\_function [name] deoxyhypusine monooxygenase activity [def] "Catalysis of the reaction

1196 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BU89}

1197 Pathogen[ P0C214] interacts with 1 human partners:{Q9BU89}

1198 Pathogen[ P03346] interacts with 1 human partners:{Q9BU89}

1199 Pathogen[ Q85601] interacts with 1 human partners:{Q9BU89}

1200 Pathogen[ P14079] interacts with 1 human partners:{Q9BU89}

1201 Pathogen[ P03383] interacts with 1 human partners:{Q9BU89}

1202 Pathogen[ P03410] interacts with 1 human partners:{Q9BU89}

1203 Pathogen[ P14075] interacts with 1 human partners:{Q9BU89}

1204 Pathogen[ P0C206] interacts with 1 human partners:{Q9BU89}

1205 [Cluster 217]GO:0043544+F molecular\_function [name] lipoamide binding [def] "Interacting selectively and non-covalently with lipoamide, the functional form of lipoic acid in which the carboxyl group is attached to protein by an amide linkage to a lysine amino group." [GOC

1206 Pathogen[ P0C214] interacts with 1 human partners:{P09622}

1207 [Cluster 218]GO:0042624+F molecular\_function [name] ATPase activity, uncoupled [def] "Catalysis of the reaction

1208 Pathogen[ P0C214] interacts with 1 human partners:{Q16864}

1209 Pathogen[ P03346] interacts with 1 human partners:{Q16864}

1210 Pathogen[ P14079] interacts with 1 human partners:{Q16864}

1211 Pathogen[ P03410] interacts with 1 human partners:{Q16864}

1212 Pathogen[ P0C206] interacts with 1 human partners:{Q16864}

1213 [Cluster 219]GO:0003934+F molecular\_function [name] GTP cyclohydrolase I activity [def] "Catalysis of the reaction

1214 Pathogen[ Q2Q067] interacts with 1 human partners:{P30793}

1215 Pathogen[ P0C214] interacts with 1 human partners:{P30793}

1216 Pathogen[ Q85601] interacts with 1 human partners:{P30793}

1217 Pathogen[ P14079] interacts with 1 human partners:{P30793}

1218 Pathogen[ P03410] interacts with 1 human partners:{P30793}

1219 Pathogen[ P14075] interacts with 1 human partners:{P30793}

1220 Pathogen[ P0C206] interacts with 1 human partners:{P30793}

1221 [Cluster 220]GO:0004341+F molecular\_function [name] gluconolactonase activity [def] "Catalysis of the reaction

1222 Pathogen[ P14079] interacts with 1 human partners:{Q15493}

1223 Pathogen[ P03410] interacts with 1 human partners:{Q15493}

1224 Pathogen[ P0C206] interacts with 1 human partners:{Q15493}

1225 [Cluster 221]GO:0030338+F molecular\_function [name] CMP-N-acetylneuraminate monooxygenase activity [def] "Catalysis of the reaction

1226 Pathogen[ P14079] interacts with 1 human partners:{Q9Y471}

1227 Pathogen[ P03410] interacts with 1 human partners:{Q9Y471}

1228 [Cluster 222]GO:0004578+F molecular\_function [name] chitobiosyldiphosphodolichol beta-mannosyltransferase activity [def] "Catalysis of the reaction

1229 Pathogen[ P14079] interacts with 1 human partners:{Q9BT22}

1230 Pathogen[ P03410] interacts with 1 human partners:{Q9BT22}

1231 [Cluster 223]GO:0051435+F molecular\_function [name] BH4 domain binding [def] "Interacting selectively and non-covalently with the BH4 domain of a protein of the Bcl-2 family. All anti-apoptotic proteins contain BH1 and BH2 domains\_ some also contain an additional N-terminal BH4 domain, which is almost never seen in pro-apoptotic proteins. Loss of the BH4 domain can diminish or abrogate anti-apoptotic function or even impart outright death-promoting properties to the protein." [InterPro

1232 Pathogen[ P14079] interacts with 1 human partners:{P49023}

1233 [Cluster 224]GO:0005131+F molecular\_function [name] growth hormone receptor binding [def] "Interacting selectively and non-covalently with the growth hormone receptor." [GOC

1234 Pathogen[ Q2Q067] interacts with 1 human partners:{O14508}

1235 Pathogen[ P0C214] interacts with 1 human partners:{O14508}

1236 Pathogen[ P03346] interacts with 1 human partners:{O14508}

1237 Pathogen[ Q85601] interacts with 1 human partners:{O14508}

1238 Pathogen[ P14079] interacts with 1 human partners:{O14508}

1239 Pathogen[ P03410] interacts with 1 human partners:{O14508}

1240 Pathogen[ P0C206] interacts with 1 human partners:{O14508}

1241 Pathogen[ P03363] interacts with 1 human partners:{O14508}

1242 [Cluster 225]GO:0004079+F molecular\_function [name] biotin-[methylmalonyl-CoA-carboxytransferase] ligase activity [def] "Catalysis of the reaction

1243 Pathogen[ P0C214] interacts with 1 human partners:{P50747}

1244 [Cluster 226]GO:0004489+F molecular\_function [name] methylenetetrahydrofolate reductase (NADPH) activity [def] "Catalysis of the reaction

1245 Pathogen[ P0C214] interacts with 1 human partners:{P42898}

1246 Pathogen[ P14079] interacts with 1 human partners:{P42898}

1247 Pathogen[ P03410] interacts with 1 human partners:{P42898}

1248 [Cluster 227]GO:0008665+F molecular\_function [name] 2'-phosphotransferase activity [def] "Catalysis of the transfer of a phosphate group from one compound to the 2' position of another." [GOC

1249 Pathogen[ P0C214] interacts with 1 human partners:{Q9H0P0}

1250 Pathogen[ Q85601] interacts with 1 human partners:{Q9H0P0}

1251 Pathogen[ P14079] interacts with 1 human partners:{Q9H0P0}

1252 Pathogen[ P03410] interacts with 1 human partners:{Q9H0P0}

1253 Pathogen[ P0C206] interacts with 1 human partners:{Q9H0P0}

1254 [Cluster 228]GO:0032452+F molecular\_function [name] histone demethylase activity [def] "Catalysis of the removal of a methyl group from a histone." [GOC

1255 Pathogen[ Q2Q067] interacts with 3 human partners:{Q9UPP1;O75151;Q8NHM5}

1256 Pathogen[ P0C214] interacts with 3 human partners:{O75151;Q9UPP1;Q8NHM5}

1257 Pathogen[ P03346] interacts with 3 human partners:{O75151;Q9UPP1;Q8NHM5}

1258 Pathogen[ Q85601] interacts with 3 human partners:{O75151;Q8NHM5;Q9UPP1}

1259 Pathogen[ P14079] interacts with 3 human partners:{O75151;Q8NHM5;Q9UPP1}

1260 Pathogen[ P03383] interacts with 2 human partners:{O75151;Q9UPP1}

1261 Pathogen[ P03410] interacts with 2 human partners:{Q9UPP1;O75151}

1262 Pathogen[ P14075] interacts with 2 human partners:{Q9UPP1;O75151}

1263 Pathogen[ P0C206] interacts with 3 human partners:{Q9UPP1;O75151;Q8NHM5}

1264 [Cluster 229]GO:0050104+F molecular\_function [name] L-gulonate 3-dehydrogenase activity [def] "Catalysis of the reaction

1265 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y2S2}

1266 [Cluster 230]GO:0008236+F molecular\_function [name] serine-type peptidase activity [def] "Catalysis of the hydrolysis of peptide bonds in a polypeptide chain by a catalytic mechanism that involves a catalytic triad consisting of a serine nucleophile that is activated by a proton relay involving an acidic residue (e.g. aspartate or glutamate) and a basic residue (usually histidine)." [http

1267 Pathogen[ Q2Q067] interacts with 1 human partners:{P48147}

1268 Pathogen[ P0C214] interacts with 2 human partners:{Q16740;P48147}

1269 Pathogen[ P03346] interacts with 3 human partners:{O95405;P10144;P48147}

1270 Pathogen[ Q85601] interacts with 2 human partners:{P10144;P48147}

1271 Pathogen[ P14079] interacts with 8 human partners:{O14773;P48147;O95405;P29144;Q16740;Q4J6C6;Q9H300;P10144}

1272 Pathogen[ P03383] interacts with 1 human partners:{P48147}

1273 Pathogen[ P03410] interacts with 4 human partners:{O95405;P10144;P48147;Q16740}

1274 Pathogen[ P0C206] interacts with 5 human partners:{P10144;P29144;P48147;Q16740;O95405}

1275 Pathogen[ P03363] interacts with 2 human partners:{P10144;O95405}

1276 [Cluster 231]GO:0005046+F molecular\_function [name] KDEL sequence binding [def] "Interacting selectively and non-covalently with a KDEL sequence, the C terminus tetrapeptide sequence Lys-Asp-Glu-Leu found in proteins that are to be retained in the endoplasmic reticulum." [GOC

1277 Pathogen[ P14079] interacts with 2 human partners:{P33947;P24390}

1278 Pathogen[ P03410] interacts with 2 human partners:{P33947;P24390}

1279 Pathogen[ P0C206] interacts with 2 human partners:{P33947;P24390}

1280 [Cluster 232]GO:0033038+F molecular\_function [name] bitter taste receptor activity [def] "Combining with soluble bitter compounds to initiate a change in cell activity. These receptors are responsible for the sense of bitter taste." [GOC

1281 Pathogen[ P14079] interacts with 1 human partners:{Q9NYV7}

1282 [Cluster 233]GO:0008732+F molecular\_function [name] L-allo-threonine aldolase activity

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[def] "Catalysis of the reaction
1283 Pathogen[ Q2Q067] interacts with 1 human partners:{P34896}
1284 Pathogen[ P0C214] interacts with 2 human partners:{P34897;P34896}
1285 Pathogen[ Q85601] interacts with 1 human partners:{P34896}
1286 Pathogen[ P14079] interacts with 2 human partners:{P34897;P34896}
1287 Pathogen[ P03383] interacts with 1 human partners:{P34896}
1288 Pathogen[ P03410] interacts with 2 human partners:{P34897;P34896}
1289 Pathogen[ P14075] interacts with 1 human partners:{P34896}
1290 Pathogen[ P0C206] interacts with 2 human partners:{P34897;P34896}
1291 [Cluster 234]GO:0047844+F molecular_function [name] deoxycytidine deaminase activity
[def] "Catalysis of the reaction
1292 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9HC16}
1293 Pathogen[ P0C214] interacts with 1 human partners:{Q9HC16}
1294 Pathogen[ Q85601] interacts with 1 human partners:{Q9HC16}
1295 Pathogen[ P14079] interacts with 1 human partners:{Q9HC16}
1296 Pathogen[ P03410] interacts with 1 human partners:{Q9HC16}
1297 Pathogen[ P0C206] interacts with 1 human partners:{Q9HC16}
1298 [Cluster 235]GO:0004679+F molecular_function [name] AMP-activated protein kinase
activity [def] "Catalysis of the reaction
1299 Pathogen[ P14079] interacts with 1 human partners:{Q9Y478}
1300 [Cluster 236]GO:0043125+F molecular_function [name] ErbB-3 class receptor binding
[def] "Interacting selectively and non-covalently with the protein-tyrosine kinase
receptor ErbB-3/HER3." [GOC
1301 Pathogen[ Q2Q067] interacts with 1 human partners:{P27986}
1302 Pathogen[ P0C214] interacts with 1 human partners:{P27986}
1303 Pathogen[ P03346] interacts with 1 human partners:{P27986}
1304 Pathogen[ Q85601] interacts with 1 human partners:{P27986}
1305 Pathogen[ P03383] interacts with 1 human partners:{P27986}
1306 Pathogen[ P03410] interacts with 1 human partners:{P27986}
1307 Pathogen[ P14075] interacts with 1 human partners:{P27986}
1308 Pathogen[ P0C206] interacts with 1 human partners:{P27986}
1309 Pathogen[ P03363] interacts with 1 human partners:{P27986}
1310 [Cluster 237]GO:0016300+F molecular_function [name] tRNA (uracil) methyltransferase
activity [def] "Catalysis of the transfer of a methyl group from a donor to a uracil
residue in a tRNA molecule." [GOC
1311 Pathogen[ P0C214] interacts with 1 human partners:{Q96BT7}
1312 Pathogen[ P03346] interacts with 1 human partners:{Q96BT7}
1313 Pathogen[ P03363] interacts with 1 human partners:{Q96BT7}
1314 [Cluster 238]GO:0046922+F molecular_function [name] peptide-O-fucosyltransferase
activity [def] "Catalysis of the transfer of an alpha-L-fucosyl residue from GDP-
beta-L-fucose to the serine hydroxy group of a protein acceptor." [EC
1315 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y2G5}
1316 Pathogen[ P14079] interacts with 2 human partners:{Q9H488;Q9Y2G5}
1317 Pathogen[ P03410] interacts with 2 human partners:{Q9Y2G5;Q9H488}
1318 Pathogen[ P14075] interacts with 1 human partners:{Q9Y2G5}
1319 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y2G5}
1320 [Cluster 239]GO:0042626+F molecular_function [name] ATPase activity, coupled to
transmembrane movement of substances [def] "Catalysis of the reaction
1321 Pathogen[ P03346] interacts with 1 human partners:{Q9Y5K8}
1322 Pathogen[ P14079] interacts with 1 human partners:{Q9Y5K8}
1323 Pathogen[ P03410] interacts with 1 human partners:{Q9Y5K8}
1324 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y5K8}
1325 Pathogen[ P03363] interacts with 1 human partners:{Q9Y5K8}
1326 [Cluster 240]GO:0004757+F molecular_function [name] sepiapterin reductase activity
[def] "Catalysis of the reaction
1327 Pathogen[ P0C214] interacts with 1 human partners:{P35270}
1328 [Cluster 241]GO:0052847+F molecular_function [name]
inositol-1,5-bisdiphosphate-2,3,4,6-tetrakisphosphate 5-diphosphatase activity [def]
"Catalysis of the reaction
1329 Pathogen[ P0C214] interacts with 1 human partners:{O95989}
1330 Pathogen[ Q85601] interacts with 1 human partners:{O95989}
1331 Pathogen[ P14079] interacts with 4 human partners:{Q96G61;O95989;Q8NFP7;Q9NZJ9}
1332 Pathogen[ P03383] interacts with 1 human partners:{O95989}
1333 Pathogen[ P03410] interacts with 4 human partners:{Q8NFP7;Q9NZJ9;O95989;Q96G61}
1334 Pathogen[ P14075] interacts with 1 human partners:{O95989}
1335 Pathogen[ P0C206] interacts with 2 human partners:{O95989;Q8NFP7}
1336 [Cluster 242]GO:0004610+F molecular_function [name] phosphoacetylglucosamine mutase
activity [def] "Catalysis of the reaction
1337 Pathogen[ Q2Q067] interacts with 1 human partners:{O95394}
1338 Pathogen[ P0C214] interacts with 1 human partners:{O95394}
1339 Pathogen[ P03346] interacts with 1 human partners:{O95394}
1340 Pathogen[ Q85601] interacts with 1 human partners:{O95394}
1341 Pathogen[ P14079] interacts with 1 human partners:{O95394}
1342 Pathogen[ P03383] interacts with 1 human partners:{O95394}
1343 Pathogen[ P03410] interacts with 1 human partners:{O95394}
1344 Pathogen[ P14075] interacts with 1 human partners:{O95394}

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1345 Pathogen[ P0C206] interacts with 1 human partners:{O95394}

1346 [Cluster 243]GO:0004143+F molecular\_function [name] diacylglycerol kinase activity  
[def] "Catalysis of the reaction

1347 Pathogen[ P03346] interacts with 1 human partners:{Q49MI3}

1348 Pathogen[ P03363] interacts with 1 human partners:{Q49MI3}

1349 [Cluster 244]GO:0030675+F molecular\_function [name] Rac GTPase activator activity  
[def] "Increases the rate of GTP hydrolysis by a GTPase of the Rac family." [GOC

1350 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8N1I0}

1351 Pathogen[ P0C214] interacts with 1 human partners:{Q8N1I0}

1352 Pathogen[ P03346] interacts with 1 human partners:{Q8N1I0}

1353 Pathogen[ Q85601] interacts with 1 human partners:{Q8N1I0}

1354 Pathogen[ P14079] interacts with 1 human partners:{Q8N1I0}

1355 Pathogen[ P03410] interacts with 1 human partners:{Q8N1I0}

1356 Pathogen[ P0C206] interacts with 1 human partners:{Q8N1I0}

1357 Pathogen[ P03363] interacts with 1 human partners:{Q8N1I0}

1358 [Cluster 245]GO:0070679+F molecular\_function [name] inositol 1,4,5 trisphosphate  
binding [def] "Interacting selectively and non-covalently with inositol 1,4,5  
trisphosphate." [GOC

1359 Pathogen[ P03346] interacts with 1 human partners:{Q9Y2J0}

1360 Pathogen[ P03410] interacts with 1 human partners:{Q9Y2J0}

1361 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y2J0}

1362 [Cluster 246]GO:0004748+F molecular\_function [name] ribonucleoside-diphosphate  
reductase activity [def] "Catalysis of the reaction

1363 Pathogen[ Q2Q067] interacts with 2 human partners:{P31350;Q7LG56}

1364 Pathogen[ P0C214] interacts with 3 human partners:{P31350;P23921;Q7LG56}

1365 Pathogen[ P03346] interacts with 2 human partners:{P31350;Q7LG56}

1366 Pathogen[ Q85601] interacts with 2 human partners:{P31350;Q7LG56}

1367 Pathogen[ P14079] interacts with 2 human partners:{P31350;Q7LG56}

1368 Pathogen[ P03383] interacts with 1 human partners:{P31350}

1369 Pathogen[ P03410] interacts with 3 human partners:{P31350;P23921;Q7LG56}

1370 Pathogen[ P14075] interacts with 1 human partners:{P31350}

1371 Pathogen[ P0C206] interacts with 2 human partners:{Q7LG56;P31350}

1372 [Cluster 247]GO:0017123+F molecular\_function [name] Ral GTPase activator activity  
[def] "Increases the rate of GTP hydrolysis by a GTPase of the Ral family." [GOC

1373 Pathogen[ P0C214] interacts with 1 human partners:{Q6GYQ0}

1374 Pathogen[ P03346] interacts with 1 human partners:{Q6GYQ0}

1375 Pathogen[ P14079] interacts with 1 human partners:{Q86X10}

1376 [Cluster 248]GO:0003980+F molecular\_function [name] UDP-glucose [def] "Catalysis of  
the addition of UDP-glucose on to asparagine-linked (N-linked) oligosaccharides of the  
form Man7-9GlcNAc2 on incorrectly folded glycoproteins." [PMID

1377 Pathogen[ P14079] interacts with 2 human partners:{Q9NYU1;Q9NYU2}

1378 Pathogen[ P03410] interacts with 2 human partners:{Q9NYU1;Q9NYU2}

1379 [Cluster 249]GO:0046811+F molecular\_function [name] histone deacetylase inhibitor  
activity [def] "Stops, prevents or reduces the activity of histone deacetylase, which  
catalyzes of the removal of acetyl groups from histones, proteins complexed to DNA in  
chromatin and chromosomes." [GOC

1380 Pathogen[ Q2Q067] interacts with 1 human partners:{P12755}

1381 Pathogen[ P0C214] interacts with 1 human partners:{P12755}

1382 Pathogen[ Q85601] interacts with 1 human partners:{P12755}

1383 Pathogen[ P14079] interacts with 1 human partners:{P12755}

1384 Pathogen[ P03410] interacts with 1 human partners:{P12755}

1385 Pathogen[ P0C206] interacts with 1 human partners:{P12755}

1386 [Cluster 250]GO:0070699+F molecular\_function [name] type II activin receptor binding  
[def] "Interacting selectively and non-covalently with a type II activin receptor." [GOC

1387 Pathogen[ Q2Q067] interacts with 1 human partners:{Q86UL8}

1388 Pathogen[ P03346] interacts with 1 human partners:{Q86UL8}

1389 Pathogen[ Q85601] interacts with 1 human partners:{Q86UL8}

1390 Pathogen[ P14079] interacts with 1 human partners:{Q86UL8}

1391 Pathogen[ P03410] interacts with 1 human partners:{Q86UL8}

1392 Pathogen[ P0C206] interacts with 1 human partners:{Q86UL8}

1393 Pathogen[ P03363] interacts with 1 human partners:{Q86UL8}

1394 [Cluster 251]GO:0003922+F molecular\_function [name] GMP synthase  
(glutamine-hydrolyzing) activity [def] "Catalysis of the reaction

1395 Pathogen[ P14079] interacts with 1 human partners:{P49915}

1396 Pathogen[ P03410] interacts with 1 human partners:{P49915}

1397 [Cluster 252]GO:0047179+F molecular\_function [name] platelet-activating factor  
acetyltransferase activity [def] "Catalysis of the reaction

1398 Pathogen[ Q2Q067] interacts with 1 human partners:{Q15102}

1399 Pathogen[ P0C214] interacts with 1 human partners:{Q15102}

1400 Pathogen[ P03346] interacts with 1 human partners:{Q15102}

1401 Pathogen[ Q85601] interacts with 1 human partners:{Q15102}

1402 Pathogen[ P14079] interacts with 1 human partners:{Q15102}

1403 Pathogen[ P03410] interacts with 1 human partners:{Q15102}

1404 Pathogen[ P14075] interacts with 1 human partners:{Q15102}

1405 Pathogen[ P0C206] interacts with 1 human partners:{Q15102}

1406 Pathogen[ P03363] interacts with 1 human partners:{Q15102}

1407 [Cluster 253]GO:0060001+F molecular\_function [name] minus-end directed microfilament motor activity [def] "Catalysis of movement along a microfilament towards the minus end, coupled to the hydrolysis of a nucleoside triphosphate (usually ATP). The minus end of an actin filament is the end that does not preferentially add actin monomers." [GOC

1408 Pathogen[ P0C214] interacts with 1 human partners:{Q9UM54}

1409 Pathogen[ Q85601] interacts with 1 human partners:{Q9UM54}

1410 Pathogen[ P14079] interacts with 1 human partners:{Q9UM54}

1411 Pathogen[ P03410] interacts with 1 human partners:{Q9UM54}

1412 Pathogen[ P0C206] interacts with 1 human partners:{Q9UM54}

1413 [Cluster 254]GO:0003860+F molecular\_function [name] 3-hydroxyisobutyryl-CoA hydrolase activity [def] "Catalysis of the reaction

1414 Pathogen[ P0C214] interacts with 1 human partners:{Q6NVY1}

1415 Pathogen[ P03410] interacts with 1 human partners:{Q6NVY1}

1416 [Cluster 255]GO:0004616+F molecular\_function [name] phosphogluconate dehydrogenase (decarboxylating) activity [def] "Catalysis of the reaction

1417 Pathogen[ P0C214] interacts with 1 human partners:{P52209}

1418 Pathogen[ P14079] interacts with 1 human partners:{P52209}

1419 Pathogen[ P03410] interacts with 1 human partners:{P52209}

1420 [Cluster 256]GO:0004370+F molecular\_function [name] glycerol kinase activity [def] "Catalysis of the reaction

1421 Pathogen[ Q2Q067] interacts with 1 human partners:{P32189}

1422 Pathogen[ P0C214] interacts with 3 human partners:{Q14410;Q14409;P32189}

1423 Pathogen[ P03346] interacts with 1 human partners:{P32189}

1424 Pathogen[ Q85601] interacts with 1 human partners:{P32189}

1425 Pathogen[ P14079] interacts with 3 human partners:{Q14410;P32189;Q14409}

1426 Pathogen[ P03383] interacts with 1 human partners:{P32189}

1427 Pathogen[ P03410] interacts with 3 human partners:{Q14410;Q14409;P32189}

1428 Pathogen[ P14075] interacts with 1 human partners:{P32189}

1429 Pathogen[ P0C206] interacts with 1 human partners:{P32189}

1430 [Cluster 257]GO:0071862+F molecular\_function [name] protein phosphatase type 1 activator activity [def] "Increases the activity of the enzyme protein phosphatase type 1." [GOC

1431 Pathogen[ P14079] interacts with 1 human partners:{Q8IZ21}

1432 Pathogen[ P03410] interacts with 1 human partners:{Q8IZ21}

1433 [Cluster 258]GO:0005324+F molecular\_function [name] long-chain fatty acid transporter activity [def] "Enables the directed movement of long-chain fatty acids into, out of or within a cell, or between cells. Long-chain fatty acids have a chain length of greater than 12 carbons." [ISBN

1434 Pathogen[ Q2Q067] interacts with 1 human partners:{P05413}

1435 Pathogen[ P0C214] interacts with 1 human partners:{P05413}

1436 Pathogen[ P03346] interacts with 2 human partners:{P05413;P07148}

1437 Pathogen[ Q85601] interacts with 1 human partners:{P05413}

1438 Pathogen[ P14079] interacts with 1 human partners:{P05413}

1439 Pathogen[ P03410] interacts with 1 human partners:{P05413}

1440 Pathogen[ P0C206] interacts with 1 human partners:{P05413}

1441 Pathogen[ P03363] interacts with 1 human partners:{P05413}

1442 [Cluster 259]GO:0003756+F molecular\_function [name] protein disulfide isomerase activity [def] "Catalysis of the rearrangement of both intrachain and interchain disulfide bonds in proteins." [EC

1443 Pathogen[ P0C214] interacts with 1 human partners:{P13667}

1444 Pathogen[ P03346] interacts with 1 human partners:{P13667}

1445 Pathogen[ P14079] interacts with 1 human partners:{P30040}

1446 Pathogen[ P03410] interacts with 2 human partners:{P13667;P30040}

1447 Pathogen[ P0C206] interacts with 1 human partners:{P13667}

1448 [Cluster 260]GO:0019838+F molecular\_function [name] growth factor binding [def] "Interacting selectively and non-covalently with any growth factor, proteins or polypeptides that stimulate a cell or organism to grow or proliferate." [GOC

1449 Pathogen[ Q2Q067] interacts with 1 human partners:{O14786}

1450 Pathogen[ P0C214] interacts with 1 human partners:{O14786}

1451 Pathogen[ P03346] interacts with 2 human partners:{Q969F2;O14786}

1452 Pathogen[ Q85601] interacts with 1 human partners:{O14786}

1453 Pathogen[ P14079] interacts with 1 human partners:{Q8TAT2}

1454 Pathogen[ P03410] interacts with 3 human partners:{O14786;Q969F2;Q8TAT2}

1455 Pathogen[ P0C206] interacts with 2 human partners:{Q969F2;O14786}

1456 Pathogen[ P03363] interacts with 1 human partners:{O14786}

1457 [Cluster 261]GO:0004862+F molecular\_function [name] cAMP-dependent protein kinase inhibitor activity [def] "Stops, prevents or reduces the activity of a cAMP-dependent protein kinase." [GOC

1458 Pathogen[ P03346] interacts with 2 human partners:{P61925;Q9C010}

1459 Pathogen[ P14079] interacts with 2 human partners:{Q9C010;P61925}

1460 Pathogen[ P03410] interacts with 2 human partners:{P61925;Q9C010}

1461 Pathogen[ P14075] interacts with 1 human partners:{Q9C010}

1462 Pathogen[ P0C206] interacts with 2 human partners:{Q9C010;P61925}

1463 Pathogen[ P03363] interacts with 2 human partners:{Q9C010;P61925}

1464 [Cluster 262]GO:0052633+F molecular\_function [name] isocitrate hydro-lyase (cis-aconitate-forming) activity [def] "Catalysis of the reaction

1465 Pathogen[ Q2Q067] interacts with 1 human partners:{P21399}

1466 Pathogen[ P0C214] interacts with 2 human partners:{Q99798;P21399}

1467 Pathogen[ P03346] interacts with 1 human partners:{P21399}

1468 Pathogen[ Q85601] interacts with 1 human partners:{P21399}

1469 Pathogen[ P14079] interacts with 1 human partners:{P21399}

1470 Pathogen[ P03410] interacts with 1 human partners:{P21399}

1471 Pathogen[ P0C206] interacts with 2 human partners:{Q99798;P21399}

1472 [Cluster 263]GO:0005089+F molecular\_function [name] Rho guanyl-nucleotide exchange factor activity [def] "Stimulates the exchange of guanyl nucleotides associated with a GTPase of the Rho family. Under normal cellular physiological conditions, the concentration of GTP is higher than that of GDP, favoring the replacement of GDP by GTP in association with the GTPase." [GOC

1473 Pathogen[ P03346] interacts with 5 human partners:{Q12802;Q6XZF7;Q9BZ29;Q5VV41;Q9H8V3}

1474 Pathogen[ P14079] interacts with 5 human partners:{Q6XZF7;P10911;Q12802;Q9H8V3;Q5VV41}

1475 Pathogen[ P03410] interacts with 3 human partners:{Q5VV41;Q6XZF7;Q9H8V3}

1476 Pathogen[ P0C206] interacts with 2 human partners:{Q9H8V3;Q6XZF7}

1477 Pathogen[ P03363] interacts with 3 human partners:{Q5VV41;P10911;Q6XZF7}

1478 [Cluster 264]GO:0004128+F molecular\_function [name] cytochrome-b5 reductase activity [def] "Catalysis of the reaction

1479 Pathogen[ Q2Q067] interacts with 1 human partners:{P15559}

1480 Pathogen[ P0C214] interacts with 1 human partners:{P15559}

1481 Pathogen[ P03346] interacts with 1 human partners:{P15559}

1482 Pathogen[ P14079] interacts with 1 human partners:{P15559}

1483 Pathogen[ P03410] interacts with 1 human partners:{P15559}

1484 Pathogen[ P14075] interacts with 1 human partners:{P15559}

1485 Pathogen[ P0C206] interacts with 1 human partners:{P15559}

1486 [Cluster 265]GO:0004705+F molecular\_function [name] JUN kinase activity [def] "Catalysis of the reaction

1487 Pathogen[ Q2Q067] interacts with 1 human partners:{P45984}

1488 Pathogen[ P0C214] interacts with 1 human partners:{P45984}

1489 Pathogen[ P03346] interacts with 1 human partners:{P45984}

1490 Pathogen[ Q85601] interacts with 1 human partners:{P45984}

1491 Pathogen[ P14079] interacts with 3 human partners:{P53779;P45984;P45983}

1492 Pathogen[ P03383] interacts with 1 human partners:{P45984}

1493 Pathogen[ P03410] interacts with 2 human partners:{P45984;P53779}

1494 Pathogen[ P14075] interacts with 1 human partners:{P45984}

1495 Pathogen[ P0C206] interacts with 1 human partners:{P45984}

1496 [Cluster 266]GO:0019826+F molecular\_function [name] oxygen sensor activity [def] "Interacting selectively and non-covalently with and responding, e.g. by conformational change, to changes in the cellular level of oxygen (O<sub>2</sub>)." [GOC

1497 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9NWT6;Q96KS0}

1498 Pathogen[ P0C214] interacts with 2 human partners:{Q96KS0;Q9NWT6}

1499 Pathogen[ P03346] interacts with 2 human partners:{Q96KS0;Q9NWT6}

1500 Pathogen[ Q85601] interacts with 2 human partners:{Q9NWT6;Q96KS0}

1501 Pathogen[ P14079] interacts with 2 human partners:{Q9NWT6;Q96KS0}

1502 Pathogen[ P03383] interacts with 2 human partners:{Q9NWT6;Q96KS0}

1503 Pathogen[ P03410] interacts with 2 human partners:{Q9NWT6;Q96KS0}

1504 Pathogen[ P14075] interacts with 2 human partners:{Q96KS0;Q9NWT6}

1505 Pathogen[ P0C206] interacts with 2 human partners:{Q96KS0;Q9NWT6}

1506 [Cluster 267]GO:0005499+F molecular\_function [name] vitamin D binding [def] "Interacting selectively and non-covalently with vitamin D, any of a group of related, fat-soluble compounds that are derived from delta-5,7 steroids and play a central role in calcium metabolism. Specific forms of vitamin D include calciferol (ergocalciferol\_ vitamin D<sub>2</sub>) and cholecalciferol (calciol\_ vitamin D<sub>3</sub>)." [CHEBI

1507 Pathogen[ P0C214] interacts with 1 human partners:{P05937}

1508 Pathogen[ P03346] interacts with 2 human partners:{P05937;P78411}

1509 Pathogen[ P14079] interacts with 1 human partners:{P05937}

1510 Pathogen[ P03410] interacts with 1 human partners:{P05937}

1511 Pathogen[ P0C206] interacts with 1 human partners:{P78411}

1512 Pathogen[ P03363] interacts with 2 human partners:{P78411;P05937}

1513 [Cluster 268]GO:0004131+F molecular\_function [name] cytosine deaminase activity [def] "Catalysis of the reaction

1514 Pathogen[ P03346] interacts with 1 human partners:{Q9NQ94}

1515 Pathogen[ P14079] interacts with 1 human partners:{Q9NQ94}

1516 Pathogen[ P03363] interacts with 1 human partners:{Q9NQ94}

1517 [Cluster 269]GO:0016005+F molecular\_function [name] phospholipase A2 activator activity [def] "Increases the activity of the enzyme phospholipase A2." [GOC

1518 Pathogen[ P03346] interacts with 1 human partners:{Q9Y263}

1519 Pathogen[ P14079] interacts with 1 human partners:{Q9Y263}

1520 Pathogen[ P03410] interacts with 1 human partners:{Q9Y263}

1521 Pathogen[ P03363] interacts with 1 human partners:{Q9Y263}

1522 [Cluster 270]GO:0004252+F molecular\_function [name] serine-type endopeptidase activity [def] "Catalysis of the hydrolysis of internal, alpha-peptide bonds in a polypeptide chain by a catalytic mechanism that involves a catalytic triad consisting of a serine

nucleophile that is activated by a proton relay involving an acidic residue (e.g. aspartate or glutamate) and a basic residue (usually histidine)." [GOC

1523 Pathogen[ Q2Q067] interacts with 2 human partners:{O14656;P48147}

1524 Pathogen[ P0C214] interacts with 3 human partners:{Q16740;O14656;P48147}

1525 Pathogen[ P03346] interacts with 3 human partners:{O14656;P10144;P48147}

1526 Pathogen[ Q85601] interacts with 3 human partners:{P10144;P48147;O14656}

1527 Pathogen[ P14079] interacts with 9 human partners:{O14773;P48147;P29144;Q16740;Q4J6C6;O14656;Q9Y3P4;Q9H300;P10144}

1528 Pathogen[ P03383] interacts with 1 human partners:{P48147}

1529 Pathogen[ P03410] interacts with 5 human partners:{P10144;O14656;P48147;Q9Y3P4;Q16740}

1530 Pathogen[ P0C206] interacts with 5 human partners:{P10144;P29144;P48147;O14656;Q16740}

1531 Pathogen[ P03363] interacts with 1 human partners:{P10144}

1532 [Cluster 271]GO:0019948+F molecular\_function [name] SUMO activating enzyme activity [def] "Catalysis of the activation of the proteolytically processed small ubiquitin-related modifier SUMO, through the formation of an ATP-dependent high-energy thiolester bond." [GOC

1533 Pathogen[ P03363] interacts with 1 human partners:{Q9UBE0}

1534 [Cluster 272]GO:0015067+F molecular\_function [name] amidinotransferase activity [def] "Catalysis of the reversible transfer of an amidino group to an acceptor." [GOC

1535 Pathogen[ P0C214] interacts with 1 human partners:{P50440}

1536 Pathogen[ P14079] interacts with 1 human partners:{P50440}

1537 Pathogen[ P03410] interacts with 1 human partners:{P50440}

1538 Pathogen[ P14075] interacts with 1 human partners:{P50440}

1539 Pathogen[ P0C206] interacts with 1 human partners:{P50440}

1540 [Cluster 273]GO:0046875+F molecular\_function [name] ephrin receptor binding [def] "Interacting selectively and non-covalently with an ephrin receptor." [GOC

1541 Pathogen[ Q2Q067] interacts with 2 human partners:{P46108;P22681}

1542 Pathogen[ P0C214] interacts with 3 human partners:{P22681;P62993;P46108}

1543 Pathogen[ P03346] interacts with 4 human partners:{P62993;Q92625;P46108;P22681}

1544 Pathogen[ Q85601] interacts with 3 human partners:{P22681;P62993;P46108}

1545 Pathogen[ P14079] interacts with 2 human partners:{P62993;P46108}

1546 Pathogen[ P03410] interacts with 2 human partners:{P46108;P62993}

1547 Pathogen[ P0C206] interacts with 4 human partners:{P62993;P22681;Q92625;P46108}

1548 Pathogen[ P03363] interacts with 3 human partners:{P22681;P46108;Q92625}

1549 [Cluster 274]GO:0008113+F molecular\_function [name] peptide-methionine-(S)-S-oxide reductase activity [def] "Catalysis of the reactions

1550 Pathogen[ P0C214] interacts with 1 human partners:{Q9UJ68}

1551 Pathogen[ P14079] interacts with 1 human partners:{Q9UJ68}

1552 Pathogen[ P03410] interacts with 1 human partners:{Q9UJ68}

1553 Pathogen[ P0C206] interacts with 1 human partners:{Q9UJ68}

1554 [Cluster 275]GO:0016780+F molecular\_function [name] phosphotransferase activity, for other substituted phosphate groups [def] "Catalysis of the transfer of a substituted phosphate group, other than diphosphate or nucleotidyl residues, from one compound (donor) to a another (acceptor)." [GOC

1555 Pathogen[ P14079] interacts with 1 human partners:{Q32NB8}

1556 [Cluster 276]GO:0004530+F molecular\_function [name] deoxyribonuclease I activity [def] "Catalysis of the endonucleolytic cleavage of DNA to 5'-phosphodinucleotide and 5'-phosphooligonucleotide end products." [EC

1557 Pathogen[ P03346] interacts with 1 human partners:{P24855}

1558 Pathogen[ P14079] interacts with 1 human partners:{P24855}

1559 Pathogen[ P03410] interacts with 1 human partners:{P24855}

1560 Pathogen[ P0C206] interacts with 1 human partners:{P24855}

1561 Pathogen[ P03363] interacts with 1 human partners:{P24855}

1562 [Cluster 277]GO:0004122+F molecular\_function [name] cystathionine beta-synthase activity [def] "Catalysis of the reaction

1563 Pathogen[ P0C214] interacts with 1 human partners:{P35520}

1564 [Cluster 278]GO:0004576+F molecular\_function [name] oligosaccharyl transferase activity [def] "Catalysis of the transfer of a oligosaccharyl group to an acceptor molecule, typically another carbohydrate or a lipid." [GOC

1565 Pathogen[ P14079] interacts with 3 human partners:{P39656;P61803;P46977}

1566 Pathogen[ P03410] interacts with 2 human partners:{P39656;P61803}

1567 Pathogen[ P0C206] interacts with 1 human partners:{P39656}

1568 [Cluster 279]GO:0004298+F molecular\_function [name] threonine-type endopeptidase activity [def] "Catalysis of the hydrolysis of internal peptide bonds in a polypeptide chain by a mechanism in which the hydroxyl group of a threonine residue at the active center acts as a nucleophile." [GOC

1569 Pathogen[ Q2Q067] interacts with 19 human partners:{P40306;P28072;A5LHX3;P25787;P28065;O14818;P60900;P28062;P25788;P25786;P28074;P25789;P20618;P28070;P28066;Q99436;Q8TAA3;P49721;P49720}

1570 Pathogen[ P0C214] interacts with 19 human partners:{P25789;P28062;A5LHX3;P28065;O14818;P40306;P28066;P49720;P28074;P25788;P25786;P28072;Q8TAA3;Q99436;P25787;P60900;P28070;P20618;P49721}

1571 Pathogen[ P03346] interacts with 19 human partners:{P25787;P28070;P25789;P28072;P25788;P28074;P49721;O14818;Q99436;A5LHX3;P2806

2;P20618;P49720;P28065;P60900;P25786;P28066;Q8TAA3;P40306}  
1572 Pathogen[ Q85601] interacts with 19 human  
partners:{P28066;P60900;P25787;P25788;P25789;P20618;P40306;P49720;P28062;P49721;P25786;P28072;P28065;Q99436;P28070;Q8TAA3;P28074;A5LHX3;O14818}

1573 Pathogen[ P14079] interacts with 17 human  
partners:{P28065;Q99436;P40306;P28074;P49720;P25787;A5LHX3;P20618;Q8TAA3;P28062;P60900;O14818;P49721;Q9H6P5;P25788;P28066;P28072}

1574 Pathogen[ P03383] interacts with 18 human  
partners:{P25789;P60900;P40306;P49721;P20618;P25786;P28072;P28065;P28066;P28074;P49720;Q8TAA3;P28062;O14818;Q99436;P28070;P25787;P25788}

1575 Pathogen[ P03410] interacts with 20 human  
partners:{P28070;P25786;P60900;Q8TAA3;P49721;A5LHX3;Q99436;P40306;P25787;P28062;O14818;P25789;P49720;Q9H6P5;P28072;P25788;P28066;P28065;P20618;P28074}

1576 Pathogen[ P14075] interacts with 18 human  
partners:{P25788;P28066;Q8TAA3;P60900;P49720;P28070;P49721;P28062;P28074;P28065;P25786;O14818;P28072;P25787;P20618;P40306;Q99436;P25789}

1577 Pathogen[ P0C206] interacts with 19 human  
partners:{Q99436;P28062;P40306;P28065;P25786;P25788;P25787;P49720;P60900;A5LHX3;P25789;P20618;Q8TAA3;P28070;P28066;O14818;P28072;P28074;P49721}

1578 [Cluster 280]GO:0004559+F molecular\_function [name] alpha-mannosidase activity [def] "Catalysis of the hydrolysis of terminal, non-reducing alpha-D-mannose residues in alpha-D-mannosides." [EC  
1579 Pathogen[ P14079] interacts with 2 human partners:{Q5SRI9;Q9NTJ4}  
1580 Pathogen[ P03410] interacts with 2 human partners:{Q5SRI9;Q9NTJ4}  
1581 Pathogen[ P14075] interacts with 1 human partners:{Q5SRI9}  
1582 Pathogen[ P0C206] interacts with 1 human partners:{Q5SRI9}

1583 [Cluster 281]GO:0010485+F molecular\_function [name] H4 histone acetyltransferase activity [def] "Catalysis of the reaction  
1584 Pathogen[ P03346] interacts with 1 human partners:{P51587}  
1585 Pathogen[ Q85601] interacts with 1 human partners:{P51587}  
1586 Pathogen[ P14079] interacts with 1 human partners:{P51587}  
1587 Pathogen[ P03410] interacts with 1 human partners:{P51587}  
1588 Pathogen[ P0C206] interacts with 1 human partners:{P51587}

1589 [Cluster 282]GO:0050080+F molecular\_function [name] malonyl-CoA decarboxylase activity [def] "Catalysis of the reaction  
1590 Pathogen[ P14079] interacts with 1 human partners:{O95822}  
1591 Pathogen[ P03410] interacts with 1 human partners:{O95822}

1592 [Cluster 283]GO:0005216+F molecular\_function [name] ion channel activity [def] "Catalysis of facilitated diffusion of an ion (by an energy-independent process) by passage through a transmembrane aqueous pore or channel without evidence for a carrier-mediated mechanism." [GOC  
1593 Pathogen[ P03346] interacts with 2 human partners:{O00299;O95833}  
1594 Pathogen[ P14079] interacts with 6 human  
partners:{P0CG08;A1A5B4;Q9NQ90;Q9BYT9;B7ZAQ6;Q9H6F2}

1595 Pathogen[ P03410] interacts with 10 human  
partners:{Q9NQ90;B7ZAQ6;P59646;Q9H6F2;P0CG08;Q15049;Q9BYT9;Q96D96;Q8IU99;A1A5B4}

1596 Pathogen[ P0C206] interacts with 3 human partners:{Q9NQ90;P0CG08;B7ZAQ6}  
1597 Pathogen[ P03363] interacts with 1 human partners:{O95833}

1598 [Cluster 284]GO:0005097+F molecular\_function [name] Rab GTPase activator activity [def] "Increases the rate of GTP hydrolysis by a GTPase of the Rab family." [GOC  
1599 Pathogen[ P03346] interacts with 1 human partners:{O60447}  
1600 Pathogen[ Q85601] interacts with 1 human partners:{O60447}  
1601 Pathogen[ P14079] interacts with 1 human partners:{Q15042}  
1602 Pathogen[ P03410] interacts with 2 human partners:{O60447;Q15042}  
1603 Pathogen[ P0C206] interacts with 1 human partners:{O60447}  
1604 Pathogen[ P03363] interacts with 1 human partners:{O60447}

1605 [Cluster 285]GO:0046539+F molecular\_function [name] histamine N-methyltransferase activity [def] "Catalysis of the reaction  
1606 Pathogen[ P03346] interacts with 1 human partners:{P50135}  
1607 Pathogen[ P14079] interacts with 1 human partners:{P50135}  
1608 Pathogen[ P03410] interacts with 1 human partners:{P50135}  
1609 Pathogen[ P0C206] interacts with 1 human partners:{P50135}  
1610 Pathogen[ P03363] interacts with 1 human partners:{P50135}

1611 [Cluster 286]GO:0042806+F molecular\_function [name] fucose binding [def] "Interacting selectively and non-covalently with fucose, the pentose 6-deoxygalactose." [CHEBI  
1612 Pathogen[ P14079] interacts with 1 human partners:{A2VDF0}  
1613 Pathogen[ P03410] interacts with 1 human partners:{A2VDF0}  
1614 Pathogen[ P0C206] interacts with 1 human partners:{A2VDF0}

1615 [Cluster 287]GO:0005099+F molecular\_function [name] Ras GTPase activator activity [def] "Increases the rate of GTP hydrolysis by a GTPase of the Ras superfamily." [GOC  
1616 Pathogen[ P03410] interacts with 1 human partners:{Q15283}

1617 [Cluster 288]GO:0004311+F molecular\_function [name] farnesyltransferase activity [def] "Catalysis of the reaction  
1618 Pathogen[ Q2Q067] interacts with 1 human partners:{P49356}  
1619 Pathogen[ P0C214] interacts with 1 human partners:{P49356}

1620 Pathogen[ P03346] interacts with 1 human partners:{P49356}

1621 Pathogen[ Q85601] interacts with 1 human partners:{P49356}

1622 Pathogen[ P14079] interacts with 2 human partners:{Q12887;P49356}

1623 Pathogen[ P03410] interacts with 2 human partners:{P49356;Q12887}

1624 Pathogen[ P0C206] interacts with 1 human partners:{P49356}

1625 [Cluster 289]GO:0019912+F molecular\_function [name] cyclin-dependent protein kinase activating kinase activity [def] "Catalysis of the reaction

1626 Pathogen[ Q2Q067] interacts with 1 human partners:{P38936}

1627 Pathogen[ P0C214] interacts with 1 human partners:{P38936}

1628 Pathogen[ P03346] interacts with 1 human partners:{P38936}

1629 Pathogen[ Q85601] interacts with 1 human partners:{P38936}

1630 Pathogen[ P14079] interacts with 1 human partners:{P38936}

1631 Pathogen[ P03410] interacts with 1 human partners:{P38936}

1632 Pathogen[ P0C206] interacts with 1 human partners:{P38936}

1633 [Cluster 290]GO:0052842+F molecular\_function [name] inositol diphosphate pentakisphosphate diphosphatase activity [def] "Catalysis of the reaction

1634 Pathogen[ P0C214] interacts with 1 human partners:{O95989}

1635 Pathogen[ Q85601] interacts with 1 human partners:{O95989}

1636 Pathogen[ P14079] interacts with 4 human partners:{Q96G61;O95989;Q8NFP7;Q9NZJ9}

1637 Pathogen[ P03383] interacts with 1 human partners:{O95989}

1638 Pathogen[ P03410] interacts with 4 human partners:{Q8NFP7;Q9NZJ9;O95989;Q96G61}

1639 Pathogen[ P14075] interacts with 1 human partners:{O95989}

1640 Pathogen[ P0C206] interacts with 2 human partners:{O95989;Q8NFP7}

1641 [Cluster 291]GO:0030955+F molecular\_function [name] potassium ion binding [def] "Interacting selectively and non-covalently with potassium (K+) ions." [GOC

1642 Pathogen[ Q2Q067] interacts with 1 human partners:{P56524}

1643 Pathogen[ P0C214] interacts with 2 human partners:{P56524;P14618}

1644 Pathogen[ P03346] interacts with 1 human partners:{P56524}

1645 Pathogen[ Q85601] interacts with 2 human partners:{P14618;P56524}

1646 Pathogen[ P14079] interacts with 1 human partners:{P56524}

1647 Pathogen[ P03383] interacts with 1 human partners:{P56524}

1648 Pathogen[ P03410] interacts with 1 human partners:{P56524}

1649 Pathogen[ P14075] interacts with 1 human partners:{P56524}

1650 Pathogen[ P0C206] interacts with 2 human partners:{P56524;P14618}

1651 [Cluster 292]GO:0047757+F molecular\_function [name] chondroitin-glucuronate 5-epimerase activity [def] "Catalysis of the reaction

1652 Pathogen[ P14079] interacts with 1 human partners:{Q9UL01}

1653 Pathogen[ P03410] interacts with 1 human partners:{Q9UL01}

1654 Pathogen[ P0C206] interacts with 1 human partners:{Q9UL01}

1655 [Cluster 293]GO:0047316+F molecular\_function [name] glutamine-phenylpyruvate transaminase activity [def] "Catalysis of the reaction

1656 Pathogen[ P0C214] interacts with 1 human partners:{Q16773}

1657 [Cluster 294]GO:0043874+F molecular\_function [name] acireductone synthase activity [def] "Catalysis of the reactions

1658 Pathogen[ P0C214] interacts with 1 human partners:{Q9UHY7}

1659 Pathogen[ P03346] interacts with 1 human partners:{Q9UHY7}

1660 Pathogen[ Q85601] interacts with 1 human partners:{Q9UHY7}

1661 Pathogen[ P0C206] interacts with 1 human partners:{Q9UHY7}

1662 [Cluster 295]GO:0003951+F molecular\_function [name] NAD+ kinase activity [def] "Catalysis of the reaction

1663 Pathogen[ P14079] interacts with 2 human partners:{O95544;Q4G0N4}

1664 Pathogen[ P03410] interacts with 1 human partners:{Q4G0N4}

1665 [Cluster 296]GO:0017110+F molecular\_function [name] nucleoside-diphosphatase activity [def] "Catalysis of the reaction

1666 Pathogen[ P14079] interacts with 1 human partners:{Q9UUKK9}

1667 Pathogen[ P03410] interacts with 1 human partners:{Q9UUKK9}

1668 [Cluster 297]GO:0004749+F molecular\_function [name] ribose phosphate diphosphokinase activity [def] "Catalysis of the reaction

1669 Pathogen[ P14079] interacts with 2 human partners:{O60256;Q14558}

1670 Pathogen[ P03410] interacts with 2 human partners:{Q14558;O60256}

1671 [Cluster 298]GO:0004662+F molecular\_function [name] CAAX-protein geranylgeranyltransferase activity [def] "Catalysis of the reaction

1672 Pathogen[ Q2Q067] interacts with 1 human partners:{P49354}

1673 Pathogen[ P0C214] interacts with 1 human partners:{P49354}

1674 Pathogen[ P03346] interacts with 1 human partners:{P49354}

1675 Pathogen[ Q85601] interacts with 1 human partners:{P49354}

1676 Pathogen[ P14079] interacts with 1 human partners:{P49354}

1677 Pathogen[ P03410] interacts with 1 human partners:{P49354}

1678 Pathogen[ P0C206] interacts with 1 human partners:{P49354}

1679 Pathogen[ P03363] interacts with 1 human partners:{P49354}

1680 [Cluster 299]GO:0050543+F molecular\_function [name] icosatetraenoic acid binding [def] "Interacting selectively and non-covalently with icosatetraenoic acid, any straight-chain fatty acid with twenty carbon atoms and four double bonds per molecule." [ISBN

1681 Pathogen[ Q2Q067] interacts with 1 human partners:{P05413}

1682 Pathogen[ P0C214] interacts with 1 human partners:{P05413}

1683 Pathogen[ P03346] interacts with 1 human partners:{P05413}

1684 Pathogen[ Q85601] interacts with 1 human partners:{P05413}

1685 Pathogen[ P14079] interacts with 1 human partners:{P05413}

1686 Pathogen[ P03410] interacts with 1 human partners:{P05413}

1687 Pathogen[ P0C206] interacts with 1 human partners:{P05413}

1688 Pathogen[ P03363] interacts with 1 human partners:{P05413}

1689 [Cluster 300]GO:0004618+F molecular\_function [name] phosphoglycerate kinase activity  
[def] "Catalysis of the reaction

1690 Pathogen[ P0C214] interacts with 1 human partners:{P00558}

1691 [Cluster 301]GO:0004673+F molecular\_function [name] protein histidine kinase activity  
[def] "Catalysis of the reaction

1692 Pathogen[ Q2Q067] interacts with 1 human partners:{P22392}

1693 Pathogen[ P0C214] interacts with 1 human partners:{P22392}

1694 Pathogen[ P03346] interacts with 1 human partners:{P22392}

1695 Pathogen[ Q85601] interacts with 1 human partners:{P22392}

1696 Pathogen[ P14079] interacts with 1 human partners:{P22392}

1697 Pathogen[ P03383] interacts with 1 human partners:{P22392}

1698 Pathogen[ P14075] interacts with 1 human partners:{P22392}

1699 Pathogen[ P0C206] interacts with 1 human partners:{P22392}

1700 [Cluster 302]GO:0004342+F molecular\_function [name] glucosamine-6-phosphate deaminase  
activity [def] "Catalysis of the reaction

1701 Pathogen[ P03346] interacts with 1 human partners:{Q8TDQ7}

1702 Pathogen[ P14079] interacts with 2 human partners:{Q8TDQ7;P46926}

1703 Pathogen[ P03410] interacts with 2 human partners:{Q8TDQ7;P46926}

1704 Pathogen[ P0C206] interacts with 2 human partners:{Q8TDQ7;P46926}

1705 Pathogen[ P03363] interacts with 1 human partners:{Q8TDQ7}

1706 [Cluster 303]GO:0003977+F molecular\_function [name] UDP-N-acetylglucosamine  
diphosphorylase activity [def] "Catalysis of the reaction

1707 Pathogen[ Q2Q067] interacts with 1 human partners:{Q16222}

1708 Pathogen[ P0C214] interacts with 1 human partners:{Q16222}

1709 Pathogen[ P03346] interacts with 1 human partners:{Q16222}

1710 Pathogen[ Q85601] interacts with 1 human partners:{Q16222}

1711 Pathogen[ P14079] interacts with 1 human partners:{Q16222}

1712 Pathogen[ P03410] interacts with 1 human partners:{Q16222}

1713 Pathogen[ P0C206] interacts with 1 human partners:{Q16222}

1714 Pathogen[ P03363] interacts with 1 human partners:{Q16222}

1715 [Cluster 304]GO:0004802+F molecular\_function [name] transketolase activity [def]  
"Catalysis of the reversible transfer of a 2-carbon ketol group (CH<sub>2</sub>OH-CO-) from a ketose  
phosphate donor to an aldose phosphate acceptor." [EC

1716 Pathogen[ P0C214] interacts with 2 human partners:{P29401;P51854}

1717 Pathogen[ P14079] interacts with 2 human partners:{P51854;P29401}

1718 Pathogen[ P03410] interacts with 1 human partners:{P51854}

1719 Pathogen[ P0C206] interacts with 2 human partners:{P51854;P29401}

1720 [Cluster 305]GO:0045127+F molecular\_function [name] N-acetylglucosamine kinase  
activity [def] "Catalysis of the reaction

1721 Pathogen[ P14079] interacts with 1 human partners:{Q9UJ70}

1722 [Cluster 306]GO:0031543+F molecular\_function [name] peptidyl-proline dioxygenase  
activity [def] "Catalysis of the reaction

1723 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9GZT9}

1724 Pathogen[ P0C214] interacts with 1 human partners:{Q9GZT9}

1725 Pathogen[ P03346] interacts with 1 human partners:{Q9GZT9}

1726 Pathogen[ Q85601] interacts with 1 human partners:{Q9GZT9}

1727 Pathogen[ P14079] interacts with 1 human partners:{Q9GZT9}

1728 Pathogen[ P03410] interacts with 1 human partners:{Q9GZT9}

1729 Pathogen[ P14075] interacts with 1 human partners:{Q9GZT9}

1730 Pathogen[ P0C206] interacts with 1 human partners:{Q9GZT9}

1731 [Cluster 307]GO:0015075+F molecular\_function [name] ion transmembrane transporter  
activity [def] "Catalysis of the transfer of an ion from one side of a membrane to the  
other." [GOC

1732 Pathogen[ P03346] interacts with 2 human partners:{P06703;Q14847}

1733 Pathogen[ P14079] interacts with 2 human partners:{Q14847;P06703}

1734 Pathogen[ P03410] interacts with 2 human partners:{P06703;Q14847}

1735 Pathogen[ P0C206] interacts with 1 human partners:{P06703}

1736 Pathogen[ P03363] interacts with 1 human partners:{Q14847}

1737 [Cluster 308]GO:0036140+F

1738 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NWT6}

1739 Pathogen[ P0C214] interacts with 1 human partners:{Q9NWT6}

1740 Pathogen[ P03346] interacts with 1 human partners:{Q9NWT6}

1741 Pathogen[ Q85601] interacts with 1 human partners:{Q9NWT6}

1742 Pathogen[ P14079] interacts with 1 human partners:{Q9NWT6}

1743 Pathogen[ P03383] interacts with 1 human partners:{Q9NWT6}

1744 Pathogen[ P03410] interacts with 1 human partners:{Q9NWT6}

1745 Pathogen[ P14075] interacts with 1 human partners:{Q9NWT6}

1746 Pathogen[ P0C206] interacts with 1 human partners:{Q9NWT6}

1747 [Cluster 309]GO:0004308+F molecular\_function [name] exo-alpha-sialidase activity [def]  
"Catalysis of the hydrolysis of alpha-(2->3)-, alpha-(2->6)-, alpha-(2->8)-glycosidic  
linkages of terminal sialic residues in oligosaccharides, glycoproteins, glycolipids,

colominic acid and synthetic substrates." [EC

1748 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8WWR8}

1749 Pathogen[ P0C214] interacts with 2 human partners:{Q8WWR8;Q9Y3R4}

1750 Pathogen[ P03346] interacts with 1 human partners:{Q8WWR8}

1751 Pathogen[ P14079] interacts with 2 human partners:{Q8WWR8;Q9Y3R4}

1752 Pathogen[ P03383] interacts with 1 human partners:{Q8WWR8}

1753 Pathogen[ P03410] interacts with 2 human partners:{Q9Y3R4;Q8WWR8}

1754 Pathogen[ P14075] interacts with 1 human partners:{Q8WWR8}

1755 Pathogen[ P0C206] interacts with 2 human partners:{Q9Y3R4;Q8WWR8}

1756 [Cluster 310]GO:0051908+F molecular\_function [name] double-stranded DNA specific 5'-3' exodeoxyribonuclease activity [def] "Catalysis of the sequential cleavage of mononucleotides from a free 5' terminus of a double-stranded DNA molecule." [GOC

1757 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UQ84}

1758 Pathogen[ P0C214] interacts with 1 human partners:{Q9UQ84}

1759 Pathogen[ P03346] interacts with 1 human partners:{Q9UQ84}

1760 Pathogen[ Q85601] interacts with 1 human partners:{Q9UQ84}

1761 Pathogen[ P14079] interacts with 1 human partners:{Q9UQ84}

1762 Pathogen[ P03410] interacts with 1 human partners:{Q9UQ84}

1763 Pathogen[ P0C206] interacts with 1 human partners:{Q9UQ84}

1764 [Cluster 311]GO:0001681+F molecular\_function [name] sialate O-acetyltransferase activity [def] "Catalysis of the reaction

1765 Pathogen[ P14079] interacts with 1 human partners:{Q9HAT2}

1766 Pathogen[ P03410] interacts with 1 human partners:{Q9HAT2}

1767 [Cluster 312]GO:0043140+F molecular\_function [name] ATP-dependent 3'-5' DNA helicase activity [def] "Catalysis of the reaction

1768 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8N3C0}

1769 Pathogen[ P0C214] interacts with 1 human partners:{Q8N3C0}

1770 Pathogen[ P03346] interacts with 2 human partners:{P46063;Q8N3C0}

1771 Pathogen[ Q85601] interacts with 1 human partners:{Q8N3C0}

1772 Pathogen[ P03410] interacts with 1 human partners:{Q8N3C0}

1773 Pathogen[ P0C206] interacts with 1 human partners:{Q8N3C0}

1774 Pathogen[ P03363] interacts with 2 human partners:{P46063;Q8N3C0}

1775 [Cluster 313]GO:0032143+F molecular\_function [name] single thymine insertion binding [def] "Interacting selectively and non-covalently with double-stranded DNA containing a single thymine insertion or a deletion that results in an unpaired thymine." [GOC

1776 Pathogen[ P14079] interacts with 1 human partners:{P52701}

1777 Pathogen[ P03410] interacts with 1 human partners:{P52701}

1778 Pathogen[ P0C206] interacts with 1 human partners:{P52701}

1779 [Cluster 314]GO:0042163+F molecular\_function [name] interleukin-12 beta subunit binding [def] "Interacting selectively and non-covalently with the beta subunit of interleukin-12." [GOC

1780 Pathogen[ P14079] interacts with 1 human partners:{P29459}

1781 Pathogen[ P03410] interacts with 1 human partners:{P29459}

1782 [Cluster 315]GO:0031782+F molecular\_function [name] type 4 melanocortin receptor binding [def] "Interacting selectively and non-covalently with a type 4 melanocortin receptor." [GOC

1783 Pathogen[ P14079] interacts with 2 human partners:{Q96G30;Q8TCY5}

1784 Pathogen[ P03410] interacts with 1 human partners:{Q96G30}

1785 [Cluster 316]GO:0004034+F molecular\_function [name] aldose 1-epimerase activity [def] "Catalysis of the reaction

1786 Pathogen[ P14079] interacts with 1 human partners:{Q96C23}

1787 Pathogen[ P03410] interacts with 1 human partners:{Q96C23}

1788 Pathogen[ P0C206] interacts with 1 human partners:{Q96C23}

1789 [Cluster 317]GO:0017160+F molecular\_function [name] Ral GTPase binding [def] "Interacting selectively and non-covalently with Ral protein, any member of the Ral subfamily of the Ras superfamily of monomeric GTPases." [GOC

1790 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96KP1}

1791 Pathogen[ P03346] interacts with 1 human partners:{Q96KP1}

1792 Pathogen[ Q85601] interacts with 1 human partners:{Q96KP1}

1793 Pathogen[ P14079] interacts with 1 human partners:{Q96KP1}

1794 Pathogen[ P03383] interacts with 1 human partners:{Q96KP1}

1795 Pathogen[ P03410] interacts with 1 human partners:{Q96KP1}

1796 Pathogen[ P14075] interacts with 1 human partners:{Q96KP1}

1797 Pathogen[ P0C206] interacts with 1 human partners:{Q96KP1}

1798 Pathogen[ P03363] interacts with 1 human partners:{Q96KP1}

1799 [Cluster 318]GO:0047547+F molecular\_function [name] 2-methylcitrate dehydratase activity [def] "Catalysis of the reaction

1800 Pathogen[ P14079] interacts with 1 human partners:{A6NK06}

1801 Pathogen[ P03410] interacts with 1 human partners:{A6NK06}

1802 Pathogen[ P0C206] interacts with 1 human partners:{A6NK06}

1803 [Cluster 319]GO:0072341+F molecular\_function [name] modified amino acid binding [def] "Interacting selectively and non-covalently with a modified amino acid." [CHEBI

1804 Pathogen[ Q2Q067] interacts with 1 human partners:{P22033}

1805 Pathogen[ P0C214] interacts with 3 human partners:{P42898;P22033;P35520}

1806 Pathogen[ Q85601] interacts with 1 human partners:{P22033}

1807 Pathogen[ P14079] interacts with 2 human partners:{P22033;P42898}



1808 Pathogen[ P03383] interacts with 1 human partners:{P22033}

1809 Pathogen[ P03410] interacts with 2 human partners:{P42898;P22033}

1810 Pathogen[ P14075] interacts with 1 human partners:{P22033}

1811 Pathogen[ P0C206] interacts with 1 human partners:{P22033}

1812 [Cluster 320]GO:0042608+F molecular\_function [name] T cell receptor binding [def] "Interacting selectively and non-covalently with a T cell receptor, the antigen-recognizing receptor on the surface of T cells." [GOC

1813 Pathogen[ P14079] interacts with 1 human partners:{P35611}

1814 Pathogen[ P03410] interacts with 1 human partners:{P35611}

1815 [Cluster 321]GO:0035326+F molecular\_function [name] enhancer binding [def] "Interacting selectively and non-covalently with an enhancer, a transcription regulatory region that is somewhat distal from the core promoter and which enhances transcription from that promoter." [GOC

1816 Pathogen[ Q2Q067] interacts with 1 human partners:{P08047}

1817 Pathogen[ P0C214] interacts with 1 human partners:{P08047}

1818 Pathogen[ P03346] interacts with 1 human partners:{P08047}

1819 Pathogen[ Q85601] interacts with 1 human partners:{P08047}

1820 Pathogen[ P03383] interacts with 1 human partners:{P08047}

1821 Pathogen[ P03410] interacts with 1 human partners:{P08047}

1822 Pathogen[ P14075] interacts with 1 human partners:{P08047}

1823 Pathogen[ P0C206] interacts with 1 human partners:{P08047}

1824 Pathogen[ P03363] interacts with 1 human partners:{P08047}

1825 [Cluster 322]GO:0043237+F molecular\_function [name] laminin-1 binding [def] "Interacting selectively and non-covalently with laminin-1, a glycoprotein trimer with the subunit composition alpha, beta, gamma1." [GOC

1826 Pathogen[ P14079] interacts with 2 human partners:{Q14118;Q9GZZ8}

1827 Pathogen[ P03410] interacts with 2 human partners:{Q9GZZ8;Q14118}

1828 Pathogen[ P14075] interacts with 1 human partners:{Q9GZZ8}

1829 [Cluster 323]GO:0034235+F molecular\_function [name] GPI anchor binding [def] "Interacting selectively and non-covalently with any glycosylphosphatidylinositol anchor. GPI anchors serve to attach membrane proteins to the lipid bilayer of cell membranes." [GOC

1830 Pathogen[ P14079] interacts with 2 human partners:{Q43292;Q9H490}

1831 Pathogen[ P03410] interacts with 1 human partners:{Q9H490}

1832 [Cluster 324]GO:0004689+F molecular\_function [name] phosphorylase kinase activity [def] "Catalysis of the reaction

1833 Pathogen[ P0C214] interacts with 2 human partners:{Q93100;P46020}

1834 Pathogen[ P14079] interacts with 2 human partners:{Q93100;P46020}

1835 Pathogen[ P03410] interacts with 2 human partners:{P46020;Q93100}

1836 Pathogen[ P14075] interacts with 1 human partners:{Q93100}

1837 Pathogen[ P0C206] interacts with 2 human partners:{Q93100;P46020}

1838 [Cluster 325]GO:0016262+F molecular\_function [name] protein N-acetylglucosaminyltransferase activity [def] "Catalysis of the reaction

1839 Pathogen[ P14079] interacts with 1 human partners:{Q5NDL2}

1840 [Cluster 326]GO:0034648+F molecular\_function [name] histone demethylase activity (H3-dimethyl-K4 specific) [def] "Catalysis of the removal of a methyl group from dimethylated lysine at position 4 of the histone H3 protein." [GOC

1841 Pathogen[ P03346] interacts with 1 human partners:{Q9UGL1}

1842 [Cluster 327]GO:0016628+F molecular\_function [name] oxidoreductase activity, acting on the CH-CH group of donors, NAD or NADP as acceptor [def] "Catalysis of an oxidation-reduction (redox) reaction in which a CH-CH group acts as a hydrogen or electron donor and reduces NAD or NADP." [GOC

1843 Pathogen[ Q2Q067] interacts with 1 human partners:{Q14739}

1844 Pathogen[ P0C214] interacts with 1 human partners:{Q14739}

1845 Pathogen[ P03346] interacts with 1 human partners:{Q14739}

1846 Pathogen[ Q85601] interacts with 1 human partners:{Q14739}

1847 Pathogen[ P14079] interacts with 1 human partners:{Q14739}

1848 Pathogen[ P03410] interacts with 1 human partners:{Q14739}

1849 Pathogen[ P0C206] interacts with 1 human partners:{Q14739}

1850 Pathogen[ P03363] interacts with 1 human partners:{Q14739}

1851 [Cluster 328]GO:0015037+F molecular\_function [name] peptide disulfide oxidoreductase activity [def] "Catalysis of the reaction

1852 Pathogen[ Q2Q067] interacts with 1 human partners:{P10599}

1853 Pathogen[ P0C214] interacts with 1 human partners:{P10599}

1854 Pathogen[ P03346] interacts with 1 human partners:{P10599}

1855 Pathogen[ Q85601] interacts with 1 human partners:{P10599}

1856 Pathogen[ P14079] interacts with 1 human partners:{P10599}

1857 Pathogen[ P03383] interacts with 1 human partners:{P10599}

1858 Pathogen[ P03410] interacts with 1 human partners:{P10599}

1859 Pathogen[ P14075] interacts with 1 human partners:{P10599}

1860 Pathogen[ P0C206] interacts with 1 human partners:{P10599}

1861 [Cluster 329]GO:0030616+F molecular\_function [name] transforming growth factor beta receptor, common-partner cytoplasmic mediator activity [def] "A TGF-beta cytoplasmic mediator that forms a complex with a phosphorylated pathway-specific mediator. The heterocomplex translocates to the nucleus to regulate transcription." [GOC

1862 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13485}

1863 Pathogen[ P0C214] interacts with 1 human partners:{Q13485}

1864 Pathogen[ P03346] interacts with 1 human partners:{Q13485}

1865 Pathogen[ Q85601] interacts with 1 human partners:{Q13485}

1866 Pathogen[ P03383] interacts with 1 human partners:{Q13485}

1867 Pathogen[ P03410] interacts with 1 human partners:{Q13485}

1868 Pathogen[ P14075] interacts with 1 human partners:{Q13485}

1869 Pathogen[ P0C206] interacts with 1 human partners:{Q13485}

1870 Pathogen[ P03363] interacts with 1 human partners:{Q13485}

1871 [Cluster 330]GO:0047945+F molecular\_function [name] L-glutamine [def] "Catalysis of the reaction

1872 Pathogen[ P0C214] interacts with 1 human partners:{Q16773}

1873 [Cluster 331]GO:0008781+F molecular\_function [name] N-acylneuraminatase cytidyltransferase activity [def] "Catalysis of the reaction

1874 Pathogen[ P0C214] interacts with 1 human partners:{Q8NFW8}

1875 Pathogen[ P03346] interacts with 1 human partners:{Q8NFW8}

1876 Pathogen[ P14079] interacts with 1 human partners:{Q8NFW8}

1877 Pathogen[ P03410] interacts with 1 human partners:{Q8NFW8}

1878 Pathogen[ P0C206] interacts with 1 human partners:{Q8NFW8}

1879 Pathogen[ P03363] interacts with 1 human partners:{Q8NFW8}

1880 [Cluster 332]GO:0016723+F molecular\_function [name] oxidoreductase activity, oxidizing metal ions, NAD or NADP as acceptor [def] "Catalysis of an oxidation-reduction in which the oxidation state of metal ion is altered and NAD+ or NADP+ acts as an electron acceptor." [GOC

1881 Pathogen[ P03346] interacts with 1 human partners:{Q9UBK8}

1882 [Cluster 333]GO:0005504+F molecular\_function [name] fatty acid binding [def] "Interacting selectively and non-covalently with fatty acids, aliphatic monocarboxylic acids liberated from naturally occurring fats and oils by hydrolysis." [ISBN

1883 Pathogen[ Q2Q067] interacts with 1 human partners:{P05413}

1884 Pathogen[ P0C214] interacts with 2 human partners:{P05413;O14561}

1885 Pathogen[ P03346] interacts with 4 human partners:{P05413;P07148;Q01469;Q9Y371}

1886 Pathogen[ Q85601] interacts with 1 human partners:{P05413}

1887 Pathogen[ P14079] interacts with 4 human partners:{Q9Y371;P05413;O14561;Q01469}

1888 Pathogen[ P03410] interacts with 4 human partners:{P05413;O14561;Q9Y371;Q01469}

1889 Pathogen[ P14075] interacts with 1 human partners:{O14561}

1890 Pathogen[ P0C206] interacts with 3 human partners:{P05413;O14561;Q01469}

1891 Pathogen[ P03363] interacts with 2 human partners:{Q01469;P05413}

1892 [Cluster 334]GO:0015078+F molecular\_function [name] hydrogen ion transmembrane transporter activity [def] "Catalysis of the transfer of hydrogen ions from one side of a membrane to the other." [GOC

1893 Pathogen[ Q2Q067] interacts with 1 human partners:{P24539}

1894 Pathogen[ P0C214] interacts with 3 human partners:{Q16864;P24539;Q99766}

1895 Pathogen[ P03346] interacts with 3 human partners:{Q93050;P24539;Q16864}

1896 Pathogen[ Q85601] interacts with 3 human partners:{P24539;Q93050;Q99766}

1897 Pathogen[ P14079] interacts with 10 human partners:{P61421;P56385;Q7Z4Y8;P03928;Q8N8Y2;Q99766;O75964;Q93050;Q16864;P24539}

1898 Pathogen[ P03383] interacts with 1 human partners:{P24539}

1899 Pathogen[ P03410] interacts with 11 human partners:{Q99766;Q8N8Y2;P61421;Q93050;P56385;P03928;P24539;O75964;Q16864;P18859;Q7Z4Y8}

1900 Pathogen[ P14075] interacts with 3 human partners:{Q99766;P24539;P56385}

1901 Pathogen[ P0C206] interacts with 5 human partners:{Q99766;P24539;Q16864;P56385;Q93050}

1902 [Cluster 335]GO:0004825+F molecular\_function [name] methionine-tRNA ligase activity [def] "Catalysis of the reaction

1903 Pathogen[ P0C214] interacts with 2 human partners:{P56192;Q96GW9}

1904 Pathogen[ P14079] interacts with 2 human partners:{Q96GW9;P56192}

1905 Pathogen[ P03383] interacts with 1 human partners:{Q96GW9}

1906 Pathogen[ P03410] interacts with 2 human partners:{P56192;Q96GW9}

1907 Pathogen[ P14075] interacts with 2 human partners:{Q96GW9;P56192}

1908 Pathogen[ P0C206] interacts with 2 human partners:{P56192;Q96GW9}

1909 [Cluster 336]GO:0008009+F molecular\_function [name] chemokine activity [def] "The function of a family of chemotactic pro-inflammatory activation-inducible cytokines acting primarily upon hemopoietic cells in immunoregulatory processes\_ all chemokines possess a number of conserved cysteine residues involved in intramolecular disulfide bond formation." [http

1910 Pathogen[ P03410] interacts with 1 human partners:{Q9NRJ3}

1911 [Cluster 337]GO:0004563+F molecular\_function [name] beta-N-acetylhexosaminidase activity [def] "Catalysis of the hydrolysis of terminal non-reducing N-acetyl-D-hexosamine residues in N-acetyl-beta-D-hexosaminides." [EC

1912 Pathogen[ P03346] interacts with 1 human partners:{Q8WVB3}

1913 Pathogen[ P14079] interacts with 1 human partners:{Q8WVB3}

1914 Pathogen[ P03410] interacts with 1 human partners:{Q8WVB3}

1915 Pathogen[ P0C206] interacts with 1 human partners:{Q8WVB3}

1916 Pathogen[ P03363] interacts with 1 human partners:{Q8WVB3}

1917 [Cluster 338]GO:0033130+F molecular\_function [name] acetylcholine receptor binding [def] "Interacting selectively and non-covalently with an acetylcholine receptor." [GOC

1918 Pathogen[ P0C214] interacts with 1 human partners:{P68543}

1919 Pathogen[ P03346] interacts with 1 human partners:{P68543}

1920 Pathogen[ P14079] interacts with 1 human partners:{P68543}

1921 Pathogen[ P03410] interacts with 1 human partners:{P68543}

1922 Pathogen[ P0C206] interacts with 1 human partners:{P68543}

1923 [Cluster 339]GO:0004849+F molecular\_function [name] uridine kinase activity [def]  
"Catalysis of the reaction

1924 Pathogen[ P0C214] interacts with 1 human partners:{Q9NWZ5}

1925 Pathogen[ P03346] interacts with 1 human partners:{Q9NWZ5}

1926 Pathogen[ P14079] interacts with 1 human partners:{Q9NWZ5}

1927 Pathogen[ P03383] interacts with 1 human partners:{Q9NWZ5}

1928 Pathogen[ P03410] interacts with 1 human partners:{Q9NWZ5}

1929 Pathogen[ P14075] interacts with 1 human partners:{Q9NWZ5}

1930 Pathogen[ P0C206] interacts with 1 human partners:{Q9NWZ5}

1931 Pathogen[ P03363] interacts with 1 human partners:{Q9NWZ5}

1932 [Cluster 340]GO:0004439+F molecular\_function [name]  
phosphatidylinositol-4,5-bisphosphate 5-phosphatase activity [def] "Catalysis of the  
reaction

1933 Pathogen[ P0C214] interacts with 1 human partners:{O15056}

1934 Pathogen[ P03346] interacts with 1 human partners:{O15056}

1935 Pathogen[ P03363] interacts with 1 human partners:{O15056}

1936 [Cluster 341]GO:0004415+F molecular\_function [name] hyaluronoglucosaminidase activity  
[def] "Catalysis of the random hydrolysis of (1->4) linkages between  
N-acetyl-beta-D-glucosamine and D-glucuronate residues in hyaluronate." [EC

1937 Pathogen[ P14079] interacts with 1 human partners:{O60502}

1938 Pathogen[ P03410] interacts with 1 human partners:{O60502}

1939 [Cluster 342]GO:0052844+F molecular\_function [name]  
inositol-3-diphosphate-1,2,4,5,6-pentakisphosphate diphosphatase activity [def]  
"Catalysis of the reaction

1940 Pathogen[ P0C214] interacts with 1 human partners:{O95989}

1941 Pathogen[ Q85601] interacts with 1 human partners:{O95989}

1942 Pathogen[ P14079] interacts with 4 human partners:{Q96G61;O95989;Q8NFP7;Q9NZJ9}

1943 Pathogen[ P03383] interacts with 1 human partners:{O95989}

1944 Pathogen[ P03410] interacts with 4 human partners:{Q8NFP7;Q9NZJ9;O95989;Q96G61}

1945 Pathogen[ P14075] interacts with 1 human partners:{O95989}

1946 Pathogen[ P0C206] interacts with 2 human partners:{O95989;Q8NFP7}

1947 [Cluster 343]GO:0047804+F molecular\_function [name] cysteine-S-conjugate beta-lyase  
activity [def] "Catalysis of the reaction

1948 Pathogen[ P0C214] interacts with 1 human partners:{Q16773}

1949 [Cluster 344]GO:0003831+F molecular\_function [name]  
beta-N-acetylglucosaminylglycopeptide beta-1,4-galactosyltransferase activity [def]  
"Catalysis of the reaction

1950 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8IZQ1}

1951 Pathogen[ P0C214] interacts with 1 human partners:{Q8IZQ1}

1952 Pathogen[ P03346] interacts with 1 human partners:{Q8IZQ1}

1953 Pathogen[ Q85601] interacts with 1 human partners:{Q8IZQ1}

1954 Pathogen[ P03383] interacts with 1 human partners:{Q8IZQ1}

1955 Pathogen[ P03410] interacts with 1 human partners:{Q8IZQ1}

1956 Pathogen[ P14075] interacts with 1 human partners:{Q8IZQ1}

1957 Pathogen[ P0C206] interacts with 1 human partners:{Q8IZQ1}

1958 Pathogen[ P03363] interacts with 1 human partners:{Q8IZQ1}

1959 [Cluster 345]GO:0005244+F molecular\_function [name] voltage-gated ion channel activity  
[def] "Catalysis of the transmembrane transfer of an ion by a voltage-gated channel. An  
ion is an atom or group of atoms carrying an electric charge by virtue of having gained  
or lost one or more electrons. A voltage-gated channel is a channel whose open state is  
dependent on the voltage across the membrane in which it is embedded." [GOC

1960 Pathogen[ P03346] interacts with 2 human partners:{O00299;O95833}

1961 Pathogen[ P14079] interacts with 2 human partners:{P0CG08;B7ZAQ6}

1962 Pathogen[ P03410] interacts with 3 human partners:{B7ZAQ6;P0CG08;Q96D96}

1963 Pathogen[ P0C206] interacts with 2 human partners:{P0CG08;B7ZAQ6}

1964 Pathogen[ P03363] interacts with 1 human partners:{O95833}

1965 [Cluster 346]GO:0031871+F molecular\_function [name] proteinase activated receptor  
binding [def] "Interacting selectively and non-covalently with a proteinase activated  
receptor." [GOC

1966 Pathogen[ P0C214] interacts with 1 human partners:{Q96G01}

1967 Pathogen[ P03346] interacts with 1 human partners:{Q96G01}

1968 Pathogen[ Q85601] interacts with 1 human partners:{Q96G01}

1969 Pathogen[ P14079] interacts with 1 human partners:{Q96G01}

1970 Pathogen[ P03410] interacts with 1 human partners:{Q96G01}

1971 Pathogen[ P0C206] interacts with 1 human partners:{Q96G01}

1972 [Cluster 347]GO:0004337+F molecular\_function [name] geranyltranstransferase activity  
[def] "Catalysis of the reaction

1973 Pathogen[ Q2Q067] interacts with 1 human partners:{P14324}

1974 Pathogen[ P0C214] interacts with 1 human partners:{P14324}

1975 Pathogen[ P03346] interacts with 1 human partners:{P14324}

1976 Pathogen[ Q85601] interacts with 1 human partners:{P14324}

1977 Pathogen[ P14079] interacts with 1 human partners:{P14324}  
 1978 Pathogen[ P03383] interacts with 1 human partners:{P14324}  
 1979 Pathogen[ P03410] interacts with 1 human partners:{P14324}  
 1980 Pathogen[ P14075] interacts with 1 human partners:{P14324}  
 1981 Pathogen[ P0C206] interacts with 1 human partners:{P14324}  
 1982 [Cluster 348]GO:0071566+F molecular\_function [name] UFM1 activating enzyme activity  
 [def] "Catalysis of the activation of the small ubiquitin-related modifier UFM1, through  
 the formation of an ATP-dependent high-energy thiolester bond." [GOC  
 1983 Pathogen[ P0C214] interacts with 1 human partners:{Q9GZZ9}  
 1984 [Cluster 349]GO:0008239+F molecular\_function [name] dipeptidyl-peptidase activity  
 [def] "Catalysis of the hydrolysis of N-terminal dipeptides from a polypeptide chain."  
 [GOC  
 1985 Pathogen[ P0C214] interacts with 1 human partners:{Q9NY33}  
 1986 Pathogen[ P14079] interacts with 1 human partners:{Q9NY33}  
 1987 Pathogen[ P03410] interacts with 1 human partners:{Q9NY33}  
 1988 Pathogen[ P0C206] interacts with 1 human partners:{Q9NY33}  
 1989 [Cluster 350]GO:0047992+F molecular\_function [name] hydroxylysine kinase activity  
 [def] "Catalysis of the reaction  
 1990 Pathogen[ P14079] interacts with 1 human partners:{A2RU49}  
 1991 Pathogen[ P03410] interacts with 1 human partners:{A2RU49}  
 1992 [Cluster 351]GO:0004638+F molecular\_function [name] phosphoribosylaminoimidazole  
 carboxylase activity [def] "Catalysis of the reaction  
 1993 Pathogen[ P14079] interacts with 1 human partners:{P22234}  
 1994 Pathogen[ P03410] interacts with 1 human partners:{P22234}  
 1995 [Cluster 352]GO:0015039+F molecular\_function [name] NADPH-adrenodoxin reductase  
 activity [def] "Catalysis of the reaction  
 1996 Pathogen[ P14079] interacts with 1 human partners:{P10109}  
 1997 Pathogen[ P03410] interacts with 1 human partners:{P10109}  
 1998 [Cluster 353]GO:0004155+F molecular\_function [name] 6,7-dihydropteridine reductase  
 activity [def] "Catalysis of the reaction  
 1999 Pathogen[ P0C214] interacts with 1 human partners:{P09417}  
 2000 [Cluster 354]GO:0004452+F molecular\_function [name] isopentenyl-diphosphate  
 delta-isomerase activity [def] "Catalysis of the reaction  
 2001 Pathogen[ P0C214] interacts with 2 human partners:{Q13907;Q9BXS1}  
 2002 Pathogen[ Q85601] interacts with 1 human partners:{Q13907}  
 2003 Pathogen[ P14079] interacts with 2 human partners:{Q9BXS1;Q13907}  
 2004 Pathogen[ P03410] interacts with 2 human partners:{Q13907;Q9BXS1}  
 2005 Pathogen[ P0C206] interacts with 2 human partners:{Q13907;Q9BXS1}  
 2006 [Cluster 355]GO:0008808+F molecular\_function [name] cardiolipin synthase activity  
 [def] "Catalysis of the reaction  
 2007 Pathogen[ P03346] interacts with 1 human partners:{Q6P597}  
 2008 Pathogen[ Q85601] interacts with 1 human partners:{Q6P597}  
 2009 Pathogen[ P14079] interacts with 1 human partners:{Q6P597}  
 2010 Pathogen[ P03410] interacts with 1 human partners:{Q6P597}  
 2011 Pathogen[ P0C206] interacts with 1 human partners:{Q6P597}  
 2012 [Cluster 356]GO:0008422+F molecular\_function [name] beta-glucosidase activity [def]  
 "Catalysis of the hydrolysis of terminal, non-reducing beta-D-glucose residues with  
 release of beta-D-glucose." [EC  
 2013 Pathogen[ P0C214] interacts with 1 human partners:{Q9H227}  
 2014 [Cluster 357]GO:0004561+F molecular\_function [name] alpha-N-acetylglucosaminidase  
 activity [def] "Catalysis of the hydrolysis of terminal non-reducing  
 N-acetyl-D-glucosamine residues in N-acetyl-alpha-D-glucosaminides." [EC  
 2015 Pathogen[ P14079] interacts with 1 human partners:{P54802}  
 2016 Pathogen[ P03410] interacts with 1 human partners:{P54802}  
 2017 [Cluster 358]GO:0001760+F molecular\_function [name] aminocarboxymuconate-semialdehyde  
 decarboxylase activity [def] "Catalysis of the reaction  
 2018 Pathogen[ P14079] interacts with 1 human partners:{Q8TDX5}  
 2019 Pathogen[ P03410] interacts with 1 human partners:{Q8TDX5}  
 2020 [Cluster 359]GO:0019780+F molecular\_function [name] FAT10 activating enzyme activity  
 [def] "Catalysis of the activation of the small ubiquitin-related modifier FAT10, through  
 the formation of an ATP-dependent high-energy thiolester bond." [GOC  
 2021 Pathogen[ P03346] interacts with 1 human partners:{A0AVT1}  
 2022 Pathogen[ P03363] interacts with 1 human partners:{A0AVT1}  
 2023 [Cluster 360]GO:0046554+F molecular\_function [name] malate dehydrogenase (NADP+)  
 activity [def] "Catalysis of the reaction  
 2024 Pathogen[ Q2Q067] interacts with 1 human partners:{P40926}  
 2025 Pathogen[ P0C214] interacts with 1 human partners:{P40926}  
 2026 Pathogen[ P03346] interacts with 1 human partners:{P40926}  
 2027 Pathogen[ Q85601] interacts with 1 human partners:{P40926}  
 2028 Pathogen[ P03383] interacts with 1 human partners:{P40926}  
 2029 Pathogen[ P03410] interacts with 1 human partners:{P40926}  
 2030 Pathogen[ P14075] interacts with 1 human partners:{P40926}  
 2031 Pathogen[ P0C206] interacts with 1 human partners:{P40926}  
 2032 [Cluster 361]GO:0004557+F molecular\_function [name] alpha-galactosidase activity [def]  
 "Catalysis of the hydrolysis of terminal, non-reducing alpha-D-galactose residues in  
 alpha-D-galactosides, including galactose oligosaccharides, galactomannans and

galactohydrolase." [EC  
2033 Pathogen[ P14079] interacts with 2 human partners:{P06280;P17050}  
2034 [Cluster 362]GO:0004084+F molecular\_function [name] branched-chain-amino-acid  
transaminase activity [def] "Catalysis of the reaction  
2035 Pathogen[ P0C214] interacts with 2 human partners:{O15382;P54687}  
2036 Pathogen[ Q85601] interacts with 1 human partners:{O15382}  
2037 Pathogen[ P14079] interacts with 1 human partners:{O15382}  
2038 Pathogen[ P03410] interacts with 1 human partners:{O15382}  
2039 Pathogen[ P0C206] interacts with 1 human partners:{O15382}  
2040 [Cluster 363]GO:0004139+F molecular\_function [name] deoxyribose-phosphate aldolase  
activity [def] "Catalysis of the reaction  
2041 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y315}  
2042 Pathogen[ P14079] interacts with 1 human partners:{Q9Y315}  
2043 Pathogen[ P03410] interacts with 1 human partners:{Q9Y315}  
2044 Pathogen[ P14075] interacts with 1 human partners:{Q9Y315}  
2045 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y315}  
2046 Pathogen[ P03363] interacts with 1 human partners:{Q9Y315}  
2047 [Cluster 364]GO:0005520+F molecular\_function [name] insulin-like growth factor binding  
[def] "Interacting selectively and non-covalently with an insulin-like growth factor, any  
member of a group of polypeptides that are structurally homologous to insulin and share  
many of its biological activities, but are immunologically distinct from it." [ISBN  
2048 Pathogen[ P03346] interacts with 1 human partners:{P09565}  
2049 Pathogen[ P14079] interacts with 1 human partners:{P09565}  
2050 Pathogen[ P03410] interacts with 1 human partners:{P09565}  
2051 Pathogen[ P14075] interacts with 1 human partners:{P09565}  
2052 Pathogen[ P0C206] interacts with 1 human partners:{P09565}  
2053 [Cluster 365]GO:0050146+F molecular\_function [name] nucleoside phosphotransferase  
activity [def] "Catalysis of the reaction  
2054 Pathogen[ P0C214] interacts with 1 human partners:{P49902}  
2055 Pathogen[ P14079] interacts with 1 human partners:{P49902}  
2056 Pathogen[ P03410] interacts with 1 human partners:{P49902}  
2057 Pathogen[ P14075] interacts with 1 human partners:{P49902}  
2058 Pathogen[ P0C206] interacts with 1 human partners:{P49902}  
2059 [Cluster 366]GO:0004821+F molecular\_function [name] histidine-tRNA ligase activity  
[def] "Catalysis of the reaction  
2060 Pathogen[ P0C214] interacts with 2 human partners:{P12081;P49590}  
2061 [Cluster 367]GO:0048495+F molecular\_function [name] Roundabout binding [def]  
"Interacting selectively and non-covalently with the Roundabout (ROBO) receptor, a  
transmembrane receptor." [GOC  
2062 Pathogen[ P14079] interacts with 1 human partners:{O43294}  
2063 Pathogen[ P03410] interacts with 1 human partners:{O43294}  
2064 Pathogen[ P0C206] interacts with 1 human partners:{O43294}  
2065 [Cluster 368]GO:0008670+F molecular\_function [name] 2,4-dienoyl-CoA reductase (NADPH)  
activity [def] "Catalysis of the reaction  
2066 Pathogen[ P0C214] interacts with 1 human partners:{Q16698}  
2067 [Cluster 369]GO:0032767+F molecular\_function [name] copper-dependent protein binding  
[def] "Interacting selectively and non-covalently with any protein or protein complex (a  
complex of two or more proteins that may include other nonprotein molecules), in the  
presence of copper." [GOC  
2068 Pathogen[ P14079] interacts with 1 human partners:{O00244}  
2069 [Cluster 370]GO:0008121+F molecular\_function [name] ubiquinol-cytochrome-c reductase  
activity [def] "Catalysis of the transfer of a solute or solutes from one side of a  
membrane to the other according to the reaction  
2070 Pathogen[ P14079] interacts with 5 human  
partners:{Q9UDW1;P14927;P07919;O14949;P00156}  
2071 Pathogen[ P03410] interacts with 5 human  
partners:{P07919;Q9UDW1;P00156;P14927;O14949}  
2072 Pathogen[ P0C206] interacts with 1 human partners:{Q9UDW1}  
2073 [Cluster 371]GO:0015081+F molecular\_function [name] sodium ion transmembrane  
transporter activity [def] "Catalysis of the transfer of sodium ions (Na+) from one  
side of a membrane to the other." [GOC  
2074 Pathogen[ P03346] interacts with 1 human partners:{P48553}  
2075 Pathogen[ P14079] interacts with 1 human partners:{P48553}  
2076 Pathogen[ P03410] interacts with 1 human partners:{P48553}  
2077 Pathogen[ P0C206] interacts with 1 human partners:{P48553}  
2078 Pathogen[ P03363] interacts with 1 human partners:{P48553}  
2079 [Cluster 372]GO:0004632+F molecular\_function [name] phosphopantothenate--cysteine  
ligase activity [def] "Catalysis of the reaction  
2080 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9HAB8}  
2081 Pathogen[ P0C214] interacts with 1 human partners:{Q9HAB8}  
2082 Pathogen[ P03346] interacts with 1 human partners:{Q9HAB8}  
2083 Pathogen[ P14079] interacts with 1 human partners:{Q9HAB8}  
2084 Pathogen[ P03383] interacts with 1 human partners:{Q9HAB8}  
2085 Pathogen[ P03410] interacts with 1 human partners:{Q9HAB8}  
2086 Pathogen[ P14075] interacts with 1 human partners:{Q9HAB8}  
2087 Pathogen[ P0C206] interacts with 1 human partners:{Q9HAB8}

2088 [Cluster 373]GO:0030507+F molecular\_function [name] spectrin binding [def]  
 "Interacting selectively and non-covalently with spectrin, a protein that is the major constituent of the erythrocyte cytoskeletal network. It associates with band 4.1 (see band protein) and actin to form the cytoskeletal superstructure of the erythrocyte plasma membrane. It is composed of nonhomologous chains, alpha and beta, which aggregate side-to-side in an antiparallel fashion to form dimers, tetramers, and higher polymers."  
 [GOC]

2089 Pathogen[ Q2Q067] interacts with 1 human partners:{P11171}  
 2090 Pathogen[ P0C214] interacts with 2 human partners:{P16157;P11171}  
 2091 Pathogen[ P03346] interacts with 4 human partners:{P16157;Q13813;P11171;O43491}  
 2092 Pathogen[ Q85601] interacts with 2 human partners:{P16157;P11171}  
 2093 Pathogen[ P14079] interacts with 4 human partners:{P11171;P16157;P35611;Q13813}  
 2094 Pathogen[ P03410] interacts with 5 human partners:{P16157;P11171;O43491;Q13813;P35611}  
 2095 Pathogen[ P14075] interacts with 1 human partners:{P11171}  
 2096 Pathogen[ P0C206] interacts with 3 human partners:{P16157;O43491;P11171}  
 2097 Pathogen[ P03363] interacts with 4 human partners:{P16157;P11171;O43491;Q13813}

2098 [Cluster 374]GO:0070012+F molecular\_function [name] oligopeptidase activity [def]  
 "Catalysis of the hydrolysis of a peptide bond in an oligopeptide, i.e. a molecule containing a small number (2 to 20) of amino acid residues connected by peptide bonds."  
 [GOC]

2099 Pathogen[ Q85601] interacts with 1 human partners:{Q9GZM8}  
 2100 Pathogen[ P14079] interacts with 1 human partners:{Q9GZM8}  
 2101 Pathogen[ P03410] interacts with 1 human partners:{Q9GZM8}  
 2102 Pathogen[ P0C206] interacts with 1 human partners:{Q9GZM8}

2103 [Cluster 375]GO:0008410+F molecular\_function [name] CoA-transferase activity [def]  
 "Catalysis of the transfer of a coenzyme A (CoA) group from one compound (donor) to another (acceptor)."  
 [GOC]

2104 Pathogen[ P03410] interacts with 2 human partners:{Q9BYC2;P55809}

2105 [Cluster 376]GO:0031812+F molecular\_function [name] P2Y1 nucleotide receptor binding [def]  
 "Interacting selectively and non-covalently with a P2Y1 nucleotide receptor." [GOC]

2106 Pathogen[ Q2Q067] interacts with 1 human partners:{P78352}  
 2107 Pathogen[ P0C214] interacts with 1 human partners:{P78352}  
 2108 Pathogen[ P03346] interacts with 1 human partners:{P78352}  
 2109 Pathogen[ Q85601] interacts with 1 human partners:{P78352}  
 2110 Pathogen[ P03383] interacts with 1 human partners:{P78352}  
 2111 Pathogen[ P03410] interacts with 1 human partners:{P78352}  
 2112 Pathogen[ P14075] interacts with 1 human partners:{P78352}  
 2113 Pathogen[ P0C206] interacts with 1 human partners:{P78352}  
 2114 Pathogen[ P03363] interacts with 1 human partners:{P78352}

2115 [Cluster 377]GO:0004645+F molecular\_function [name] phosphorylase activity [def]  
 "Catalysis of the reaction

2116 Pathogen[ P0C214] interacts with 1 human partners:{Q13126}

2117 [Cluster 378]GO:0016884+F molecular\_function [name] carbon-nitrogen ligase activity, with glutamine as amido-N-donor [def]  
 "Catalysis of the transfer of the amide nitrogen of glutamine to a variety of substrates. GATases catalyze two separate reactions at two active sites, which are located either on a single polypeptide chain or on different subunits. In the glutaminase reaction, glutamine is hydrolyzed to glutamate and ammonia, which is added to an acceptor substrate in the synthase reaction." [PMID]

2118 Pathogen[ P14079] interacts with 4 human partners:{O75879;Q9H0R6;O00519;Q6GMR7}  
 2119 Pathogen[ P03410] interacts with 4 human partners:{O00519;O75879;Q9H0R6;Q6GMR7}

2120 [Cluster 379]GO:0003874+F molecular\_function [name] 6-pyruvoyltetrahydropterin synthase activity [def]  
 "Catalysis of the reaction

2121 Pathogen[ Q2Q067] interacts with 1 human partners:{Q03393}  
 2122 Pathogen[ P0C214] interacts with 1 human partners:{Q03393}  
 2123 Pathogen[ P03346] interacts with 1 human partners:{Q03393}  
 2124 Pathogen[ P14079] interacts with 1 human partners:{Q03393}  
 2125 Pathogen[ P03410] interacts with 1 human partners:{Q03393}  
 2126 Pathogen[ P0C206] interacts with 1 human partners:{Q03393}

2127 [Cluster 380]GO:0004059+F molecular\_function [name] aralkylamine N-acetyltransferase activity [def]  
 "Catalysis of the reaction

2128 Pathogen[ P0C214] interacts with 1 human partners:{Q16613}  
 2129 Pathogen[ Q85601] interacts with 1 human partners:{Q16613}  
 2130 Pathogen[ P14079] interacts with 1 human partners:{Q16613}  
 2131 Pathogen[ P03383] interacts with 1 human partners:{Q16613}  
 2132 Pathogen[ P03410] interacts with 1 human partners:{Q16613}  
 2133 Pathogen[ P14075] interacts with 1 human partners:{Q16613}  
 2134 Pathogen[ P0C206] interacts with 1 human partners:{Q16613}

2135 [Cluster 381]GO:0050294+F molecular\_function [name] steroid sulfotransferase activity [def]  
 "Catalysis of the reaction

2136 Pathogen[ Q2Q067] interacts with 1 human partners:{O00204}  
 2137 Pathogen[ P0C214] interacts with 1 human partners:{O00204}  
 2138 Pathogen[ P03346] interacts with 1 human partners:{O00204}  
 2139 Pathogen[ Q85601] interacts with 1 human partners:{O00204}  
 2140 Pathogen[ P03410] interacts with 1 human partners:{O00204}  
 2141 Pathogen[ P0C206] interacts with 1 human partners:{O00204}

2142 Pathogen[ P03363] interacts with 1 human partners:{O00204}

2143 [Cluster 382]GO:0004839+F molecular\_function [name] ubiquitin activating enzyme activity [def] "Catalysis of the reaction

2144 Pathogen[ P03363] interacts with 1 human partners:{Q9UBE0}

2145 [Cluster 383]GO:0004829+F molecular\_function [name] threonine-tRNA ligase activity [def] "Catalysis of the reaction

2146 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BW92}

2147 Pathogen[ P0C214] interacts with 3 human partners:{P26639;A2RTX5;Q9BW92}

2148 Pathogen[ Q85601] interacts with 3 human partners:{P26639;Q9BW92;A2RTX5}

2149 Pathogen[ P14079] interacts with 3 human partners:{P26639;Q9BW92;A2RTX5}

2150 Pathogen[ P03383] interacts with 2 human partners:{A2RTX5;Q9BW92}

2151 Pathogen[ P03410] interacts with 3 human partners:{Q9BW92;P26639;A2RTX5}

2152 Pathogen[ P14075] interacts with 3 human partners:{A2RTX5;Q9BW92;P26639}

2153 Pathogen[ P0C206] interacts with 3 human partners:{A2RTX5;Q9BW92;P26639}

2154 Pathogen[ P03363] interacts with 2 human partners:{A2RTX5;Q9BW92}

2155 [Cluster 384]GO:0070080+F molecular\_function [name] titin Z domain binding [def] "Interacting selectively and non-covalently with the titin Z domain, which recognizes and binds to the C-terminal calmodulin-like domain of alpha-actinin-2 (Act-EF34), adopts a helical structure, and binds in a groove formed by the two planes between the helix pairs of Act-EF34." [GOC

2156 Pathogen[ P14079] interacts with 1 human partners:{O15273}

2157 Pathogen[ P03410] interacts with 1 human partners:{O15273}

2158 [Cluster 385]GO:0046848+F molecular\_function [name] hydroxyapatite binding [def] "Interacting selectively and non-covalently with hydroxyapatite, the calcium phosphate mineral of formula Ca<sub>10</sub>(PO<sub>4</sub>)<sub>6</sub>(OH)<sub>2</sub> found both in rocks of nonorganic origin and as a component of bone and dentin." [CHEBI

2159 Pathogen[ P14079] interacts with 1 human partners:{P02808}

2160 Pathogen[ P03410] interacts with 1 human partners:{P02808}

2161 Pathogen[ P14075] interacts with 1 human partners:{P02808}

2162 Pathogen[ P0C206] interacts with 1 human partners:{P02808}

2163 Pathogen[ P03363] interacts with 1 human partners:{P02808}

2164 [Cluster 386]GO:0016814+F molecular\_function [name] hydrolase activity, acting on carbon-nitrogen (but not peptide) bonds, in cyclic amidines [def] "Catalysis of the hydrolysis of any non-peptide carbon-nitrogen bond in a cyclic amidine, a compound of the form R-C(=NH)-NH<sub>2</sub>." [ISBN

2165 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9GZX7;Q9HC16}

2166 Pathogen[ P0C214] interacts with 2 human partners:{Q9HC16;Q9GZX7}

2167 Pathogen[ Q85601] interacts with 2 human partners:{Q9HC16;Q9GZX7}

2168 Pathogen[ P14079] interacts with 5 human partners:{P41238;P31941;Q9HC16;Q9GZX7;Q8WW27}

2169 Pathogen[ P03410] interacts with 7 human partners:{P41238;Q8WW27;Q9HC16;Q9GZX7;Q9NRW3;P31941;Q6NTF7}

2170 Pathogen[ P0C206] interacts with 5 human partners:{Q9GZX7;P31941;Q6NTF7;Q9HC16;P41238}

2171 [Cluster 387]GO:0032050+F molecular\_function [name] clathrin heavy chain binding [def] "Interacting selectively and non-covalently with a clathrin heavy chain." [GOC

2172 Pathogen[ P03346] interacts with 1 human partners:{Q13492}

2173 Pathogen[ P14079] interacts with 1 human partners:{Q13492}

2174 Pathogen[ P03410] interacts with 1 human partners:{Q13492}

2175 [Cluster 388]GO:0017168+F molecular\_function [name] 5-oxoprolinase (ATP-hydrolyzing) activity [def] "Catalysis of the reaction

2176 Pathogen[ P14079] interacts with 1 human partners:{O14841}

2177 Pathogen[ P03410] interacts with 1 human partners:{O14841}

2178 [Cluster 389]GO:0030197+F molecular\_function [name] extracellular matrix constituent, lubricant activity [def] "Functions as a lubricant for an extracellular matrix, such as a mucous membrane." [GOC

2179 Pathogen[ P14079] interacts with 1 human partners:{P02808}

2180 Pathogen[ P03410] interacts with 1 human partners:{P02808}

2181 Pathogen[ P14075] interacts with 1 human partners:{P02808}

2182 Pathogen[ P0C206] interacts with 1 human partners:{P02808}

2183 Pathogen[ P03363] interacts with 1 human partners:{P02808}

2184 [Cluster 390]GO:0032217+F molecular\_function [name] riboflavin transporter activity [def] "Facilitates the directed movement of riboflavin into, out of or within a cell, or between cells. Riboflavin (vitamin B2) is a water-soluble B-complex vitamin, converted in the cell to FMN and FAD, cofactors required for the function of flavoproteins." [GOC

2185 Pathogen[ P14079] interacts with 3 human partners:{Q9NWF4;Q9HAB3;Q9NQ40}

2186 Pathogen[ P03410] interacts with 3 human partners:{Q9HAB3;Q9NQ40;Q9NWF4}

2187 [Cluster 391]GO:0017057+F molecular\_function [name] 6-phosphogluconolactonase activity [def] "Catalysis of the reaction

2188 Pathogen[ Q2Q067] interacts with 1 human partners:{O95336}

2189 Pathogen[ P0C214] interacts with 1 human partners:{O95336}

2190 Pathogen[ P03346] interacts with 1 human partners:{O95336}

2191 Pathogen[ Q85601] interacts with 1 human partners:{O95336}

2192 Pathogen[ P14079] interacts with 1 human partners:{O95336}

2193 Pathogen[ P03410] interacts with 1 human partners:{O95336}

2194 Pathogen[ P14075] interacts with 1 human partners:{O95336}

2195 Pathogen[ P0C206] interacts with 1 human partners:{O95336}

2196 Pathogen[ P03363] interacts with 1 human partners:{O95336}

2197 [Cluster 392]GO:0016534+F molecular\_function [name] cyclin-dependent protein kinase 5 activator activity [def] "Increases the activity of cyclin-dependent protein kinase 5." [GOC

2198 Pathogen[ P14079] interacts with 1 human partners:{Q15078}

2199 [Cluster 393]GO:0004810+F molecular\_function [name] tRNA adenylyltransferase activity [def] "Catalysis of the reaction

2200 Pathogen[ P14079] interacts with 1 human partners:{Q96Q11}

2201 Pathogen[ P03410] interacts with 1 human partners:{Q96Q11}

2202 [Cluster 394]GO:0003909+F molecular\_function [name] DNA ligase activity [def] "Catalysis of the formation of a phosphodiester bond between the 3'-hydroxyl group at the end of one DNA chain and the 5'-phosphate group at the end of another. This reaction requires an energy source such as ATP or NAD+." [ISBN

2203 Pathogen[ P14079] interacts with 1 human partners:{P49917}

2204 Pathogen[ P0C206] interacts with 2 human partners:{P49917;P49916}

2205 [Cluster 395]GO:0046933+F molecular\_function [name] hydrogen ion transporting ATP synthase activity, rotational mechanism [def] "Catalysis of the transfer of a solute or solutes from one side of a membrane to the other according to the reaction

2206 Pathogen[ Q2Q067] interacts with 1 human partners:{P24539}

2207 Pathogen[ P0C214] interacts with 3 human partners:{Q16864;P36542;P24539}

2208 Pathogen[ P03346] interacts with 2 human partners:{P24539;Q16864}

2209 Pathogen[ Q85601] interacts with 1 human partners:{P24539}

2210 Pathogen[ P14079] interacts with 6 human partners:{P36542;P25705;Q5VTU8;P56381;Q16864;P24539}

2211 Pathogen[ P03383] interacts with 1 human partners:{P24539}

2212 Pathogen[ P03410] interacts with 6 human partners:{P36542;P25705;P56381;Q5VTU8;P24539;Q16864}

2213 Pathogen[ P14075] interacts with 1 human partners:{P24539}

2214 Pathogen[ P0C206] interacts with 4 human partners:{P36542;P24539;Q16864;P56381}

2215 [Cluster 396]GO:0044540+F

2216 Pathogen[ Q2Q067] interacts with 1 human partners:{P32929}

2217 Pathogen[ P0C214] interacts with 1 human partners:{P32929}

2218 Pathogen[ P03346] interacts with 1 human partners:{P32929}

2219 Pathogen[ Q85601] interacts with 1 human partners:{P32929}

2220 Pathogen[ P14079] interacts with 1 human partners:{P32929}

2221 Pathogen[ P03410] interacts with 1 human partners:{P32929}

2222 Pathogen[ P0C206] interacts with 1 human partners:{P32929}

2223 [Cluster 397]GO:0047621+F molecular\_function [name] acylpyruvate hydrolase activity [def] "Catalysis of the reaction

2224 Pathogen[ P0C214] interacts with 1 human partners:{Q6P587}

2225 Pathogen[ P14079] interacts with 1 human partners:{Q6P587}

2226 Pathogen[ P03410] interacts with 1 human partners:{Q6P587}

2227 Pathogen[ P0C206] interacts with 1 human partners:{Q6P587}

2228 [Cluster 398]GO:0030586+F molecular\_function [name] [methionine synthase] reductase activity [def] "Catalysis of the reaction

2229 Pathogen[ P03346] interacts with 1 human partners:{Q9UBK8}

2230 [Cluster 399]GO:0004835+F molecular\_function [name] tubulin-tyrosine ligase activity [def] "Catalysis of the reaction

2231 Pathogen[ P03346] interacts with 2 human partners:{Q8N841;Q6EMB2}

2232 Pathogen[ P14079] interacts with 7 human partners:{Q14166;O95922;Q9Y4R7;A6PVC2;Q8N841;Q6ZVT0;Q6EMB2}

2233 Pathogen[ P03410] interacts with 7 human partners:{Q9Y4R7;Q6ZVT0;Q14166;O95922;Q8N841;A6PVC2;Q6EMB2}

2234 Pathogen[ P0C206] interacts with 4 human partners:{Q6ZVT0;O95922;Q8N841;Q6EMB2}

2235 Pathogen[ P03363] interacts with 3 human partners:{Q6EMB2;O95922;Q8N841}

2236 [Cluster 400]GO:0050121+F molecular\_function [name] N-acylglucosamine 2-epimerase activity [def] "Catalysis of the reaction

2237 Pathogen[ P14079] interacts with 1 human partners:{P51606}

2238 Pathogen[ P03410] interacts with 1 human partners:{P51606}

2239 [Cluster 401]GO:0070402+F molecular\_function [name] NADPH binding [def] "Interacting selectively and non-covalently with the reduced form, NADPH, of nicotinamide-adenine dinucleotide phosphate, a coenzyme involved in many redox and biosynthetic reactions." [GOC

2240 Pathogen[ P0C214] interacts with 2 human partners:{P09417;Q16698}

2241 [Cluster 402]GO:0005519+F molecular\_function [name] cytoskeletal regulatory protein binding [def] "Interacting selectively and non-covalently with any protein involved in modulating the reorganization of the cytoskeleton." [GOC

2242 Pathogen[ P14079] interacts with 1 human partners:{Q9UKI2}

2243 Pathogen[ P03410] interacts with 1 human partners:{Q9UKI2}

2244 [Cluster 403]GO:0008517+F molecular\_function [name] folic acid transporter activity [def] "Enables the directed movement of folic acid (pteroylglutamic acid) into, out of or within a cell, or between cells. Folic acid is widely distributed as a member of the vitamin B complex and is essential for the synthesis of purine and pyrimidines." [GOC

2245 Pathogen[ P14079] interacts with 1 human partners:{Q96NT5}

2246 [Cluster 404]GO:0042731+F molecular\_function [name] PH domain binding [def]



"Interacting selectively and non-covalently with a PH domain (pleckstrin homology) of a protein, a domain of about 100 residues that occurs in a wide range of proteins involved in intracellular signaling or as constituents of the cytoskeleton." [GOC

2247 Pathogen[ P03346] interacts with 1 human partners:{043491}

2248 Pathogen[ P03410] interacts with 1 human partners:{043491}

2249 Pathogen[ P0C206] interacts with 1 human partners:{043491}

2250 Pathogen[ P03363] interacts with 1 human partners:{043491}

2251 [Cluster 405]GO:0004724+F molecular\_function [name] magnesium-dependent protein serine/threonine phosphatase activity [def] "Catalysis of the reactions

2252 Pathogen[ P0C214] interacts with 2 human partners:{Q9P0J1;Q9P2J9}

2253 [Cluster 406]GO:0031861+F molecular\_function [name] prolactin-releasing peptide receptor binding [def] "Interacting selectively and non-covalently with a prolactin-releasing peptide receptor." [GOC

2254 Pathogen[ P14079] interacts with 1 human partners:{P81277}

2255 Pathogen[ P03410] interacts with 1 human partners:{P81277}

2256 [Cluster 407]GO:0004127+F molecular\_function [name] cytidylate kinase activity [def] "Catalysis of the reaction

2257 Pathogen[ P0C214] interacts with 1 human partners:{Q5EBM0}

2258 Pathogen[ P14079] interacts with 1 human partners:{Q5EBM0}

2259 Pathogen[ P03383] interacts with 1 human partners:{Q5EBM0}

2260 Pathogen[ P03410] interacts with 1 human partners:{Q5EBM0}

2261 Pathogen[ P14075] interacts with 1 human partners:{Q5EBM0}

2262 Pathogen[ P0C206] interacts with 1 human partners:{Q5EBM0}

2263 [Cluster 408]GO:0017154+F molecular\_function [name] semaphorin receptor activity [def] "Combining with a semaphorin to initiate a change in cell activity." [GOC

2264 Pathogen[ Q2Q067] interacts with 1 human partners:{014786}

2265 Pathogen[ P0C214] interacts with 1 human partners:{014786}

2266 Pathogen[ P03346] interacts with 1 human partners:{014786}

2267 Pathogen[ Q85601] interacts with 1 human partners:{014786}

2268 Pathogen[ P03410] interacts with 1 human partners:{014786}

2269 Pathogen[ P0C206] interacts with 1 human partners:{014786}

2270 Pathogen[ P03363] interacts with 1 human partners:{014786}

2271 [Cluster 409]GO:0052901+F

2272 Pathogen[ P0C214] interacts with 1 human partners:{Q9NWM0}

2273 [Cluster 410]GO:0004329+F molecular\_function [name] formate-tetrahydrofolate ligase activity [def] "Catalysis of the reaction

2274 Pathogen[ P0C214] interacts with 1 human partners:{P11586}

2275 [Cluster 411]GO:0043499+F molecular\_function [name] eukaryotic cell surface binding [def] "Interacting selectively and non-covalently with any component on the surface of a eukaryotic cell." [GOC

2276 Pathogen[ Q2Q067] interacts with 1 human partners:{P08697}

2277 Pathogen[ P0C214] interacts with 1 human partners:{P08697}

2278 Pathogen[ Q85601] interacts with 1 human partners:{P08697}

2279 Pathogen[ P14079] interacts with 2 human partners:{P25705;P08758}

2280 Pathogen[ P03383] interacts with 1 human partners:{P08697}

2281 Pathogen[ P03410] interacts with 2 human partners:{P25705;P08697}

2282 Pathogen[ P14075] interacts with 1 human partners:{P08697}

2283 Pathogen[ P0C206] interacts with 1 human partners:{P08697}

2284 Pathogen[ P03363] interacts with 1 human partners:{Q8N302}

2285 [Cluster 412]GO:0051920+F molecular\_function [name] peroxiredoxin activity [def] "Catalysis of the reaction

2286 Pathogen[ Q2Q067] interacts with 2 human partners:{Q99497;Q06830}

2287 Pathogen[ P0C214] interacts with 2 human partners:{Q99497;Q06830}

2288 Pathogen[ P03346] interacts with 2 human partners:{Q99497;Q06830}

2289 Pathogen[ Q85601] interacts with 2 human partners:{Q99497;Q06830}

2290 Pathogen[ P14079] interacts with 1 human partners:{Q99497}

2291 Pathogen[ P03410] interacts with 2 human partners:{Q99497;Q06830}

2292 Pathogen[ P0C206] interacts with 2 human partners:{Q99497;Q06830}

2293 [Cluster 413]GO:0008545+F molecular\_function [name] JUN kinase kinase activity [def] "Catalysis of the phosphorylation of tyrosine and threonine residues in a c-Jun NH2-terminal kinase (JNK), a member of a subgroup of mitogen-activated protein kinases (MAPKs), which signal in response to cytokines and exposure to environmental stress. JUN kinase kinase (JNKK) is a dual-specificity protein kinase kinase and requires activation by a serine/threonine kinase JUN kinase kinase." [GOC

2294 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13233}

2295 Pathogen[ P0C214] interacts with 1 human partners:{Q13233}

2296 Pathogen[ P03346] interacts with 1 human partners:{Q13233}

2297 Pathogen[ Q85601] interacts with 1 human partners:{Q13233}

2298 Pathogen[ P03383] interacts with 1 human partners:{Q13233}

2299 Pathogen[ P03410] interacts with 1 human partners:{Q13233}

2300 Pathogen[ P14075] interacts with 1 human partners:{Q13233}

2301 Pathogen[ P0C206] interacts with 1 human partners:{Q13233}

2302 Pathogen[ P03363] interacts with 1 human partners:{Q13233}

2303 [Cluster 414]GO:0034038+F molecular\_function [name] deoxyhypusine synthase activity [def] "Catalysis of the reaction

2304 Pathogen[ Q2Q067] interacts with 1 human partners:{P49366}

2305 Pathogen[ P0C214] interacts with 1 human partners:{P49366}

2306 Pathogen[ P03346] interacts with 1 human partners:{P49366}

2307 Pathogen[ P14079] interacts with 1 human partners:{P49366}

2308 Pathogen[ P03383] interacts with 1 human partners:{P49366}

2309 Pathogen[ P03410] interacts with 1 human partners:{P49366}

2310 Pathogen[ P14075] interacts with 1 human partners:{P49366}

2311 Pathogen[ P0C206] interacts with 1 human partners:{P49366}

2312 Pathogen[ P03363] interacts with 1 human partners:{P49366}

2313 [Cluster 415]GO:0070273+F molecular\_function [name] phosphatidylinositol-4-phosphate binding [def] "Interacting selectively and non-covalently with phosphatidylinositol-4-phosphate, a derivative of phosphatidylinositol in which the inositol ring is phosphorylated at the 4' position." [GOC

2314 Pathogen[ Q2Q067] interacts with 1 human partners:{Q86VW0}

2315 Pathogen[ P0C214] interacts with 1 human partners:{Q86VW0}

2316 Pathogen[ P03346] interacts with 2 human partners:{Q86VW0;Q96S99}

2317 Pathogen[ Q85601] interacts with 2 human partners:{Q96S99;Q86VW0}

2318 Pathogen[ P14079] interacts with 3 human partners:{Q96S99;Q9NS86;Q86VW0}

2319 Pathogen[ P03410] interacts with 3 human partners:{Q9NS86;Q96S99;Q86VW0}

2320 Pathogen[ P0C206] interacts with 3 human partners:{Q86VW0;Q96S99;Q9NS86}

2321 Pathogen[ P03363] interacts with 1 human partners:{Q86VW0}

2322 [Cluster 416]GO:0032090+F molecular\_function [name] Pyrin domain binding [def] "Interacting selectively and non-covalently with a Pyrin (PAAD/DAPIN) domain, a protein-protein interaction domain that has the same fold as the Death domain." [GOC

2323 Pathogen[ P03346] interacts with 1 human partners:{Q9NX02}

2324 Pathogen[ P03363] interacts with 1 human partners:{Q9NX02}

2325 [Cluster 417]GO:0050786+F molecular\_function [name] RAGE receptor binding [def] "Interacting selectively and non-covalently with the RAGE receptor, the receptor for advanced glycation end-products." [GOC

2326 Pathogen[ Q2Q067] interacts with 1 human partners:{P26447}

2327 Pathogen[ P0C214] interacts with 1 human partners:{P26447}

2328 Pathogen[ P03346] interacts with 1 human partners:{P26447}

2329 Pathogen[ Q85601] interacts with 1 human partners:{P26447}

2330 Pathogen[ P14079] interacts with 1 human partners:{P26447}

2331 Pathogen[ P03410] interacts with 1 human partners:{P26447}

2332 Pathogen[ P0C206] interacts with 1 human partners:{P26447}

2333 Pathogen[ P03363] interacts with 1 human partners:{P26447}

2334 [Cluster 418]GO:0046527+F molecular\_function [name] glucosyltransferase activity [def] "Catalysis of the transfer of a glucosyl group to an acceptor molecule, typically another carbohydrate or a lipid." [ISBN

2335 Pathogen[ P14079] interacts with 1 human partners:{Q8NBL1}

2336 [Cluster 419]GO:0070300+F molecular\_function [name] phosphatidic acid binding [def] "Interacting selectively and non-covalently with phosphatidic acid, any of a class of glycerol phosphate in which both the remaining hydroxyl groups of the glycerol moiety are esterified with fatty acids." [CHEBI

2337 Pathogen[ Q2Q067] interacts with 1 human partners:{Q86VW0}

2338 Pathogen[ P0C214] interacts with 1 human partners:{Q86VW0}

2339 Pathogen[ P03346] interacts with 1 human partners:{Q86VW0}

2340 Pathogen[ Q85601] interacts with 1 human partners:{Q86VW0}

2341 Pathogen[ P14079] interacts with 1 human partners:{Q86VW0}

2342 Pathogen[ P03410] interacts with 1 human partners:{Q86VW0}

2343 Pathogen[ P0C206] interacts with 1 human partners:{Q86VW0}

2344 Pathogen[ P03363] interacts with 1 human partners:{Q86VW0}

2345 [Cluster 420]GO:0031386+F molecular\_function [name] protein tag [def] "Acting as an indicator or marker to facilitate recognition by other molecules in the cell. Recognition of the tag, which can be covalently attached to the target molecule, may result in modification, sequestration, transport or degradation of the molecule in question." [GOC

2346 Pathogen[ P0C214] interacts with 1 human partners:{Q9H4P4}

2347 Pathogen[ P03346] interacts with 1 human partners:{Q9H4P4}

2348 Pathogen[ Q85601] interacts with 1 human partners:{Q9H4P4}

2349 Pathogen[ P0C206] interacts with 1 human partners:{Q9H4P4}

2350 Pathogen[ P03363] interacts with 1 human partners:{Q9H4P4}

2351 [Cluster 421]GO:0010859+F molecular\_function [name] calcium-dependent cysteine-type endopeptidase inhibitor activity [def] "Stops, prevents or reduces the activity of a calcium-dependent cysteine-type endopeptidase, any enzyme that hydrolyzes peptide bonds in polypeptides by a mechanism in which the sulfhydryl group of a cysteine residue at the active center acts as a nucleophile in a calcium-dependent manner." [GOC

2352 Pathogen[ Q2Q067] interacts with 1 human partners:{P20810}

2353 Pathogen[ P0C214] interacts with 1 human partners:{P20810}

2354 Pathogen[ P03346] interacts with 1 human partners:{P20810}

2355 Pathogen[ P14079] interacts with 1 human partners:{P20810}

2356 Pathogen[ P03383] interacts with 1 human partners:{P20810}

2357 Pathogen[ P03410] interacts with 1 human partners:{P20810}

2358 Pathogen[ P14075] interacts with 1 human partners:{P20810}

2359 Pathogen[ P0C206] interacts with 1 human partners:{P20810}

2360 Pathogen[ P03363] interacts with 1 human partners:{P20810}

2361 [Cluster 422]GO:0042947+F molecular\_function [name] glucoside transmembrane

transporter activity [def] "Catalysis of the transfer of glucosides from one side of the membrane to the other. Glucosides are glycosides in which the sugar group is a glucose residue." [GOC

2362 Pathogen[ P03410] interacts with 1 human partners:{Q9BRV3}

2363 [Cluster 423]GO:0008568+F molecular\_function [name] microtubule-severing ATPase activity [def] "Catalysis of the reaction

2364 Pathogen[ P03346] interacts with 1 human partners:{Q9UBP0}

2365 Pathogen[ Q85601] interacts with 2 human partners:{Q9UBP0;Q9BVA0}

2366 Pathogen[ P14079] interacts with 1 human partners:{Q9BVA0}

2367 Pathogen[ P03410] interacts with 1 human partners:{Q9BVA0}

2368 Pathogen[ P0C206] interacts with 2 human partners:{Q9BVA0;Q9UBP0}

2369 [Cluster 424]GO:0004074+F molecular\_function [name] biliverdin reductase activity [def] "Catalysis of the reaction

2370 Pathogen[ P0C214] interacts with 1 human partners:{P30043}

2371 [Cluster 425]GO:0005372+F molecular\_function [name] water transmembrane transporter activity [def] "Enables the directed movement of water (H2O) from one side of a membrane to the other." [GOC

2372 Pathogen[ P03410] interacts with 1 human partners:{Q13336}

2373 [Cluster 426]GO:0005319+F molecular\_function [name] lipid transporter activity [def] "Enables the directed movement of lipids into, out of or within a cell, or between cells." [GOC

2374 Pathogen[ P14079] interacts with 1 human partners:{Q96AA3}

2375 Pathogen[ P03410] interacts with 1 human partners:{P55157}

2376 [Cluster 427]GO:0008483+F molecular\_function [name] transaminase activity [def] "Catalysis of the transfer of an amino group to an acceptor, usually a 2-oxo acid." [ISBN

2377 Pathogen[ P0C214] interacts with 5 human partners:{P48728;Q9Y617;O15382;P54687;Q16773}

2378 Pathogen[ P03346] interacts with 1 human partners:{P48728}

2379 Pathogen[ Q85601] interacts with 1 human partners:{O15382}

2380 Pathogen[ P14079] interacts with 3 human partners:{Q9Y617;P48728;O15382}

2381 Pathogen[ P03410] interacts with 3 human partners:{Q9Y617;O15382;P48728}

2382 Pathogen[ P14075] interacts with 1 human partners:{P48728}

2383 Pathogen[ P0C206] interacts with 2 human partners:{O15382;P48728}

2384 Pathogen[ P03363] interacts with 1 human partners:{P48728}

2385 [Cluster 428]GO:0008474+F molecular\_function [name] palmitoyl-(protein) hydrolase activity [def] "Catalysis of the reaction

2386 Pathogen[ P0C214] interacts with 1 human partners:{O75608}

2387 Pathogen[ P03346] interacts with 1 human partners:{O75608}

2388 Pathogen[ P14079] interacts with 1 human partners:{O75608}

2389 Pathogen[ P03410] interacts with 1 human partners:{O75608}

2390 Pathogen[ P0C206] interacts with 1 human partners:{O75608}

2391 [Cluster 429]GO:0034191+F molecular\_function [name] apolipoprotein A-I receptor binding [def] "Interacting selectively and non-covalently with an apolipoprotein A-I receptor." [GOC

2392 Pathogen[ Q2Q067] interacts with 1 human partners:{P60953}

2393 Pathogen[ P0C214] interacts with 1 human partners:{P60953}

2394 Pathogen[ P03346] interacts with 1 human partners:{P60953}

2395 Pathogen[ Q85601] interacts with 1 human partners:{P60953}

2396 Pathogen[ P03383] interacts with 1 human partners:{P60953}

2397 Pathogen[ P03410] interacts with 1 human partners:{P60953}

2398 Pathogen[ P14075] interacts with 1 human partners:{P60953}

2399 Pathogen[ P0C206] interacts with 1 human partners:{P60953}

2400 Pathogen[ P03363] interacts with 1 human partners:{P60953}

2401 [Cluster 430]GO:0048365+F molecular\_function [name] Rac GTPase binding [def] "Interacting selectively and non-covalently with Rac protein, any member of the Rac subfamily of the Ras superfamily of monomeric GTPases." [GOC

2402 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8N1I0}

2403 Pathogen[ P0C214] interacts with 1 human partners:{Q8N1I0}

2404 Pathogen[ P03346] interacts with 2 human partners:{Q86UR1;Q8N1I0}

2405 Pathogen[ Q85601] interacts with 1 human partners:{Q8N1I0}

2406 Pathogen[ P14079] interacts with 1 human partners:{Q8N1I0}

2407 Pathogen[ P03410] interacts with 2 human partners:{Q86UR1;Q8N1I0}

2408 Pathogen[ P0C206] interacts with 1 human partners:{Q8N1I0}

2409 Pathogen[ P03363] interacts with 3 human partners:{Q86UR1;Q7L576;Q8N1I0}

2410 [Cluster 431]GO:0015068+F molecular\_function [name] glycine amidinotransferase activity [def] "Catalysis of the reaction

2411 Pathogen[ P0C214] interacts with 1 human partners:{P50440}

2412 Pathogen[ P14079] interacts with 1 human partners:{P50440}

2413 Pathogen[ P03410] interacts with 1 human partners:{P50440}

2414 Pathogen[ P14075] interacts with 1 human partners:{P50440}

2415 Pathogen[ P0C206] interacts with 1 human partners:{P50440}

2416 [Cluster 432]GO:0016830+F molecular\_function [name] carbon-carbon lyase activity [def] "Catalysis of the cleavage of C-C bonds by other means than by hydrolysis or oxidation, or conversely adding a group to a double bond." [GOC

2417 Pathogen[ P14079] interacts with 1 human partners:{Q8N0X4}

2418 Pathogen[ P03410] interacts with 1 human partners:{Q8N0X4}

2419 [Cluster 433]GO:0005501+F molecular\_function [name] retinoid binding [def] "Interacting selectively and non-covalently with retinoids, any member of a class of isoprenoids that contain or are derived from four prenyl groups linked head-to-tail. Retinoids include retinol and retinal and structurally similar natural derivatives or synthetic compounds, but need not have vitamin A activity." [GOC]

2420 Pathogen[ P03346] interacts with 1 human partners:{P29373}

2421 Pathogen[ P0C206] interacts with 1 human partners:{P29373}

2422 Pathogen[ P03363] interacts with 1 human partners:{P29373}

2423 [Cluster 434]GO:0004303+F molecular\_function [name] estradiol 17-beta-dehydrogenase activity [def] "Catalysis of the reaction

2424 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BPX1}

2425 Pathogen[ P0C214] interacts with 1 human partners:{Q9BPX1}

2426 Pathogen[ P03346] interacts with 1 human partners:{Q9BPX1}

2427 Pathogen[ Q85601] interacts with 1 human partners:{Q9BPX1}

2428 Pathogen[ P03383] interacts with 1 human partners:{Q9BPX1}

2429 Pathogen[ P03410] interacts with 1 human partners:{Q9BPX1}

2430 Pathogen[ P0C206] interacts with 1 human partners:{Q9BPX1}

2431 Pathogen[ P03363] interacts with 1 human partners:{Q9BPX1}

2432 [Cluster 435]GO:0031771+F molecular\_function [name] type 1 hypocretin receptor binding [def] "Interacting selectively and non-covalently with a type 1 hypocretin receptor." [GOC]

2433 Pathogen[ P14079] interacts with 1 human partners:{O43612}

2434 Pathogen[ P03410] interacts with 1 human partners:{O43612}

2435 [Cluster 436]GO:0005121+F molecular\_function [name] Toll binding [def] "Interacting selectively and non-covalently with the Toll protein, a transmembrane receptor." [GOC]

2436 Pathogen[ P14079] interacts with 1 human partners:{Q99836}

2437 [Cluster 437]GO:0001918+F molecular\_function [name] farnesylated protein binding [def] "Interacting selectively and non-covalently with a farnesylated protein." [GOC]

2438 Pathogen[ P03363] interacts with 1 human partners:{Q9NZN9}

2439 [Cluster 438]GO:0019205+F molecular\_function [name] nucleobase-containing compound kinase activity [def] "Catalysis of the transfer of a phosphate group, usually from ATP or GTP, to a nucleobase, nucleoside, nucleotide or polynucleotide substrate." [GOC]

2440 Pathogen[ P14079] interacts with 1 human partners:{Q9C093}

2441 Pathogen[ P03410] interacts with 1 human partners:{Q9C093}

2442 [Cluster 439]GO:0030351+F molecular\_function [name] inositol-1,3,4,5,6-pentakisphosphate 3-phosphatase activity [def] "Catalysis of the reaction

2443 Pathogen[ P14079] interacts with 1 human partners:{Q9UNW1}

2444 Pathogen[ P03410] interacts with 1 human partners:{Q9UNW1}

2445 [Cluster 440]GO:0080146+F molecular\_function [name] L-cysteine desulphydrase activity [def] "Catalysis of the reaction

2446 Pathogen[ Q2Q067] interacts with 1 human partners:{P32929}

2447 Pathogen[ P0C214] interacts with 1 human partners:{P32929}

2448 Pathogen[ P03346] interacts with 1 human partners:{P32929}

2449 Pathogen[ Q85601] interacts with 1 human partners:{P32929}

2450 Pathogen[ P14079] interacts with 1 human partners:{P32929}

2451 Pathogen[ P03410] interacts with 1 human partners:{P32929}

2452 Pathogen[ P0C206] interacts with 1 human partners:{P32929}

2453 [Cluster 441]GO:0015105+F molecular\_function [name] arsenite transmembrane transporter activity [def] "Catalysis of the transfer of arsenite from one side of a membrane to the other." [GOC]

2454 Pathogen[ P0C214] interacts with 1 human partners:{O43681}

2455 Pathogen[ Q85601] interacts with 1 human partners:{O43681}

2456 Pathogen[ P14079] interacts with 1 human partners:{O43681}

2457 Pathogen[ P03410] interacts with 1 human partners:{O43681}

2458 Pathogen[ P0C206] interacts with 1 human partners:{O43681}

2459 [Cluster 442]GO:0097158+F molecular\_function [name] pre-mRNA intronic pyrimidine-rich binding [def] "Interacting selectively and non-covalently with a pyrimidine-rich (CU-rich) intronic sequence of a pre-messenger RNA (pre-mRNA)." [GOC]

2460 Pathogen[ P03346] interacts with 1 human partners:{Q9BWF3}

2461 Pathogen[ P03363] interacts with 1 human partners:{Q9BWF3}

2462 [Cluster 443]GO:0004602+F molecular\_function [name] glutathione peroxidase activity [def] "Catalysis of the reaction

2463 Pathogen[ Q2Q067] interacts with 1 human partners:{O43708}

2464 Pathogen[ P0C214] interacts with 1 human partners:{O43708}

2465 Pathogen[ P03346] interacts with 1 human partners:{O43708}

2466 Pathogen[ Q85601] interacts with 1 human partners:{O43708}

2467 Pathogen[ P14079] interacts with 2 human partners:{O43708;P10620}

2468 Pathogen[ P03410] interacts with 1 human partners:{O43708}

2469 Pathogen[ P0C206] interacts with 1 human partners:{O43708}

2470 Pathogen[ P03363] interacts with 1 human partners:{O43708}

2471 [Cluster 444]GO:0032405+F molecular\_function [name] MutLalpha complex binding [def] "Interacting selectively and non-covalently with the mismatch repair complex MutLalpha." [GOC]

2472 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9UIF7;P12004}

2473 Pathogen[ P0C214] interacts with 1 human partners:{Q9UIF7}

2474 Pathogen[ P03346] interacts with 2 human partners:{P12004;Q9UIF7}

2475 Pathogen[ Q85601] interacts with 2 human partners:{Q9UIF7;P12004}

2476 Pathogen[ P14079] interacts with 4 human partners:{Q9UIF7;Q9NSU2;P12004;P52701}

2477 Pathogen[ P03410] interacts with 4 human partners:{Q9NSU2;P52701;P12004;Q9UIF7}

2478 Pathogen[ P14075] interacts with 1 human partners:{Q9UIF7}

2479 Pathogen[ P0C206] interacts with 4 human partners:{Q9NSU2;P52701;Q9UIF7;P12004}

2480 Pathogen[ P03363] interacts with 1 human partners:{Q9UIF7}

2481 [Cluster 445]GO:0004706+F molecular\_function [name] JUN kinase kinase kinase activity  
[def] "Catalysis of the reaction

2482 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13233}

2483 Pathogen[ P0C214] interacts with 1 human partners:{Q13233}

2484 Pathogen[ P03346] interacts with 1 human partners:{Q13233}

2485 Pathogen[ Q85601] interacts with 1 human partners:{Q13233}

2486 Pathogen[ P03383] interacts with 1 human partners:{Q13233}

2487 Pathogen[ P03410] interacts with 1 human partners:{Q13233}

2488 Pathogen[ P14075] interacts with 1 human partners:{Q13233}

2489 Pathogen[ P0C206] interacts with 1 human partners:{Q13233}

2490 Pathogen[ P03363] interacts with 1 human partners:{Q13233}

2491 [Cluster 446]GO:0016175+F molecular\_function [name] superoxide-generating NADPH  
oxidase activity [def] "Catalysis of the reaction

2492 Pathogen[ P14079] interacts with 1 human partners:{P13498}

2493 [Cluster 447]GO:0004560+F molecular\_function [name] alpha-L-fucosidase activity [def]  
"Catalysis of the reaction

2494 Pathogen[ P14079] interacts with 1 human partners:{P04066}

2495 Pathogen[ P03410] interacts with 1 human partners:{P04066}

2496 [Cluster 448]GO:0008480+F molecular\_function [name] sarcosine dehydrogenase activity  
[def] "Catalysis of the reaction

2497 Pathogen[ P0C214] interacts with 1 human partners:{Q9UL12}

2498 Pathogen[ P14079] interacts with 1 human partners:{Q9UL12}

2499 Pathogen[ P03410] interacts with 1 human partners:{Q9UL12}

2500 [Cluster 449]GO:0016671+F molecular\_function [name] oxidoreductase activity, acting on  
a sulfur group of donors, disulfide as acceptor [def] "Catalysis of an  
oxidation-reduction (redox) reaction in which a sulfur-containing group acts as a  
hydrogen or electron donor and reduces disulfide." [GOC

2501 Pathogen[ P0C214] interacts with 2 human partners:{Q9UJ68;Q9Y3D2}

2502 Pathogen[ P14079] interacts with 3 human partners:{Q9NZV6;Q9Y3D2;Q9UJ68}

2503 Pathogen[ P03410] interacts with 2 human partners:{Q9UJ68;Q9Y3D2}

2504 Pathogen[ P0C206] interacts with 3 human partners:{Q9NZV6;Q9Y3D2;Q9UJ68}

2505 [Cluster 450]GO:0004622+F molecular\_function [name] lysophospholipase activity [def]  
"Catalysis of the reaction

2506 Pathogen[ P0C214] interacts with 1 human partners:{O75608}

2507 Pathogen[ P03346] interacts with 1 human partners:{O75608}

2508 Pathogen[ P14079] interacts with 1 human partners:{O75608}

2509 Pathogen[ P03410] interacts with 1 human partners:{O75608}

2510 Pathogen[ P0C206] interacts with 2 human partners:{O75608;Q5VWZ2}

2511 Pathogen[ P03363] interacts with 1 human partners:{Q5VWZ2}

2512 [Cluster 451]GO:0019783+F molecular\_function [name] small conjugating protein-specific  
protease activity [def] "Catalysis of the hydrolysis of peptide or isopeptide bonds  
within small proteins such as ubiquitin or ubiquitin-like proteins (e.g. APG8, ISG15,  
NEDD8, SUMO), or between the small protein and a larger protein to which it has been  
conjugated." [GOC

2513 Pathogen[ P14079] interacts with 1 human partners:{Q9NUQ7}

2514 [Cluster 452]GO:0030169+F molecular\_function [name] low-density lipoprotein particle  
binding [def] "Interacting selectively and non-covalently with a low-density lipoprotein  
particle, a lipoprotein particle that is rich in cholesterol esters and low in  
triglycerides, is typically composed of APOB100 and APOE, and has a density of 1.02-1.06  
g/ml and a diameter of between 20-25 nm." [GOC

2515 Pathogen[ P0C214] interacts with 1 human partners:{Q9H9E1}

2516 Pathogen[ P03346] interacts with 1 human partners:{Q9H9E1}

2517 Pathogen[ Q85601] interacts with 1 human partners:{Q9H9E1}

2518 Pathogen[ P14079] interacts with 1 human partners:{Q9H9E1}

2519 Pathogen[ P03410] interacts with 1 human partners:{Q9H9E1}

2520 Pathogen[ P0C206] interacts with 1 human partners:{Q9H9E1}

2521 Pathogen[ P03363] interacts with 1 human partners:{Q9H9E1}

2522 [Cluster 453]GO:0042805+F molecular\_function [name] actinin binding [def]  
"Interacting selectively and non-covalently with actinin, any member of a family of  
proteins that crosslink F-actin." [GOC

2523 Pathogen[ P0C206] interacts with 1 human partners:{P50461}

2524 [Cluster 454]GO:0001875+F molecular\_function [name] lipopolysaccharide receptor  
activity [def] "Combining with a lipopolysaccharide to initiate a change in cell  
activity. Lipopolysaccharides (LPS) are major components of the outer membrane of  
Gram-negative bacteria, making them prime targets for recognition by the immune system."  
[PMID

2525 Pathogen[ P14079] interacts with 1 human partners:{Q9Y6Y9}

2526 Pathogen[ P03410] interacts with 1 human partners:{Q9Y6Y9}

2527 [Cluster 455]GO:0019855+F molecular\_function [name] calcium channel inhibitor activity

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[def] "Stops, prevents, or reduces the activity of a calcium channel." [GOC
2528 Pathogen[ P0C214] interacts with 1 human partners:{P19429}
2529 Pathogen[ P03346] interacts with 1 human partners:{Q9NRX4}
2530 Pathogen[ P14079] interacts with 2 human partners:{P19429;Q9NRX4}
2531 Pathogen[ P03410] interacts with 2 human partners:{P19429;Q9NRX4}
2532 Pathogen[ P0C206] interacts with 2 human partners:{P19429;Q9NRX4}
2533 Pathogen[ P03363] interacts with 1 human partners:{P19429}
2534 [Cluster 456]GO:0032036+F molecular_function [name] myosin heavy chain binding [def]
"Interacting selectively and non-covalently with a heavy chain of a myosin complex." [GOC
2535 Pathogen[ P03346] interacts with 1 human partners:{P10916}
2536 Pathogen[ P14079] interacts with 1 human partners:{P10916}
2537 Pathogen[ P03410] interacts with 1 human partners:{P10916}
2538 Pathogen[ P03363] interacts with 1 human partners:{P10916}
2539 [Cluster 457]GO:0035325+F molecular_function [name] Toll-like receptor binding [def]
"Interacting selectively and non-covalently with a Toll-like protein, a pattern
recognition receptor that binds pattern motifs from a variety of microbial sources to
initiate an innate immune response." [PMID
2540 Pathogen[ P0C214] interacts with 1 human partners:{Q9H0E2}
2541 Pathogen[ P03346] interacts with 1 human partners:{Q9H0E2}
2542 Pathogen[ P14079] interacts with 1 human partners:{Q9H0E2}
2543 Pathogen[ P03410] interacts with 1 human partners:{Q9H0E2}
2544 Pathogen[ P0C206] interacts with 1 human partners:{Q9H0E2}
2545 Pathogen[ P03363] interacts with 1 human partners:{Q9H0E2}
2546 [Cluster 458]GO:0004333+F molecular_function [name] fumarate hydratase activity [def]
"Catalysis of the reaction
2547 Pathogen[ Q2Q067] interacts with 1 human partners:{P07954}
2548 Pathogen[ P0C214] interacts with 1 human partners:{P07954}
2549 Pathogen[ P03346] interacts with 1 human partners:{P07954}
2550 Pathogen[ Q85601] interacts with 1 human partners:{P07954}
2551 Pathogen[ P14079] interacts with 1 human partners:{P07954}
2552 Pathogen[ P03410] interacts with 1 human partners:{P07954}
2553 Pathogen[ P0C206] interacts with 1 human partners:{P07954}
2554 [Cluster 459]GO:0033142+F molecular_function [name] progesterone receptor binding
[def] "Interacting selectively and non-covalently with a progesterone receptor." [GOC
2555 Pathogen[ Q2Q067] interacts with 1 human partners:{P55345}
2556 Pathogen[ P0C214] interacts with 1 human partners:{P55345}
2557 Pathogen[ P03346] interacts with 1 human partners:{P55345}
2558 Pathogen[ Q85601] interacts with 1 human partners:{P55345}
2559 Pathogen[ P14079] interacts with 1 human partners:{P55345}
2560 Pathogen[ P03410] interacts with 1 human partners:{P55345}
2561 Pathogen[ P0C206] interacts with 1 human partners:{P55345}
2562 [Cluster 460]GO:0010333+F molecular_function [name] terpene synthase activity [def]
"Catalysis of the formation of cyclic terpenes through the cyclization of linear terpenes
(e.g. isopentenyl-PP, geranyl-PP, farnesyl-PP and geranylgeranyl-PP) containing varying
numbers of isoprene units." [EC
2563 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96JJ3}
2564 Pathogen[ P0C214] interacts with 1 human partners:{Q96JJ3}
2565 Pathogen[ P03346] interacts with 1 human partners:{Q96JJ3}
2566 Pathogen[ Q85601] interacts with 1 human partners:{Q96JJ3}
2567 Pathogen[ P14079] interacts with 1 human partners:{Q96JJ3}
2568 Pathogen[ P03410] interacts with 1 human partners:{Q96JJ3}
2569 Pathogen[ P0C206] interacts with 1 human partners:{Q96JJ3}
2570 Pathogen[ P03363] interacts with 1 human partners:{Q96JJ3}
2571 [Cluster 461]GO:0032556+F molecular_function [name] pyrimidine deoxyribonucleotide
binding [def] "Interacting selectively and non-covalently with a pyrimidine
deoxyribonucleotide, any compound consisting of a pyrimidine deoxyribonucleoside that is
esterified with (ortho)phosphate or an oligophosphate at any hydroxyl group on the
deoxyribose moiety." [GOC
2572 Pathogen[ P14079] interacts with 1 human partners:{Q9H773}
2573 Pathogen[ P03410] interacts with 1 human partners:{Q9H773}
2574 [Cluster 462]GO:0035575+F molecular_function [name] histone demethylase activity
(H4-K20 specific) [def] "Catalysis of the reaction
2575 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UPP1}
2576 Pathogen[ P0C214] interacts with 1 human partners:{Q9UPP1}
2577 Pathogen[ P03346] interacts with 1 human partners:{Q9UPP1}
2578 Pathogen[ Q85601] interacts with 1 human partners:{Q9UPP1}
2579 Pathogen[ P14079] interacts with 1 human partners:{Q9UPP1}
2580 Pathogen[ P03383] interacts with 1 human partners:{Q9UPP1}
2581 Pathogen[ P03410] interacts with 1 human partners:{Q9UPP1}
2582 Pathogen[ P14075] interacts with 1 human partners:{Q9UPP1}
2583 Pathogen[ P0C206] interacts with 1 human partners:{Q9UPP1}
2584 [Cluster 463]GO:0008179+F molecular_function [name] adenylate cyclase binding [def]
"Interacting selectively and non-covalently with the enzyme adenylate cyclase." [GOC
2585 Pathogen[ Q2Q067] interacts with 1 human partners:{Q02952}
2586 Pathogen[ P03346] interacts with 1 human partners:{Q02952}
2587 Pathogen[ P14079] interacts with 2 human partners:{Q02952;P24588}

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2588 Pathogen[ P03383] interacts with 1 human partners:{Q02952}

2589 Pathogen[ P03410] interacts with 2 human partners:{Q02952;P24588}

2590 Pathogen[ P14075] interacts with 1 human partners:{Q02952}

2591 Pathogen[ P0C206] interacts with 1 human partners:{Q02952}

2592 Pathogen[ P03363] interacts with 1 human partners:{Q02952}

2593 [Cluster 464]GO:0050353+F molecular\_function [name] trimethyllysine dioxygenase activity [def] "Catalysis of the reaction

2594 Pathogen[ P0C214] interacts with 1 human partners:{Q9NVH6}

2595 Pathogen[ P14079] interacts with 1 human partners:{Q9NVH6}

2596 Pathogen[ P03410] interacts with 1 human partners:{Q9NVH6}

2597 Pathogen[ P14075] interacts with 1 human partners:{Q9NVH6}

2598 Pathogen[ P0C206] interacts with 1 human partners:{Q9NVH6}

2599 [Cluster 465]GO:0004808+F molecular\_function [name] tRNA (5-methylaminomethyl-2-thiouridylate)-methyltransferase activity [def] "Catalysis of the reaction

2600 Pathogen[ P14079] interacts with 1 human partners:{O75648}

2601 Pathogen[ P03410] interacts with 1 human partners:{O75648}

2602 Pathogen[ P14075] interacts with 1 human partners:{O75648}

2603 [Cluster 466]GO:0005247+F molecular\_function [name] voltage-gated chloride channel activity [def] "Catalysis of the transmembrane transfer of a chloride ion by a voltage-gated channel. A voltage-gated channel is a channel whose open state is dependent on the voltage across the membrane in which it is embedded." [GOC

2604 Pathogen[ P03346] interacts with 2 human partners:{O00299;O95833}

2605 Pathogen[ P03363] interacts with 1 human partners:{O95833}

2606 [Cluster 467]GO:0004181+F molecular\_function [name] metallocarboxypeptidase activity [def] "Catalysis of the hydrolysis of C-terminal amino acid residues from a polypeptide chain by a mechanism in which water acts as a nucleophile, one or two metal ions hold the water molecule in place, and charged amino acid side chains are ligands for the metal ions." [http

2607 Pathogen[ P14079] interacts with 3 human partners:{Q96MI9;Q9UPW5;Q8NDL9}

2608 Pathogen[ P03410] interacts with 1 human partners:{Q9UPW5}

2609 Pathogen[ P0C206] interacts with 2 human partners:{Q8NDL9;Q9UPW5}

2610 [Cluster 468]GO:0045294+F molecular\_function [name] alpha-catenin binding [def] "Interacting selectively and non-covalently with the alpha subunit of the catenin complex." [GOC

2611 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96IF1}

2612 Pathogen[ P03346] interacts with 1 human partners:{Q96IF1}

2613 Pathogen[ Q85601] interacts with 1 human partners:{Q96IF1}

2614 Pathogen[ P14079] interacts with 1 human partners:{Q96IF1}

2615 Pathogen[ P03410] interacts with 1 human partners:{Q96IF1}

2616 Pathogen[ P0C206] interacts with 1 human partners:{Q96IF1}

2617 Pathogen[ P03363] interacts with 1 human partners:{Q96IF1}

2618 [Cluster 469]GO:0004322+F molecular\_function [name] ferroxidase activity [def] "Catalysis of the reaction

2619 Pathogen[ P0C214] interacts with 1 human partners:{P02794}

2620 Pathogen[ P03346] interacts with 1 human partners:{P02794}

2621 Pathogen[ Q85601] interacts with 1 human partners:{P02794}

2622 Pathogen[ P14079] interacts with 1 human partners:{P02794}

2623 Pathogen[ P03383] interacts with 1 human partners:{P02794}

2624 Pathogen[ P03410] interacts with 1 human partners:{P02794}

2625 Pathogen[ P14075] interacts with 1 human partners:{P02794}

2626 Pathogen[ P0C206] interacts with 1 human partners:{P02794}

2627 Pathogen[ P03363] interacts with 1 human partners:{P02794}

2628 [Cluster 470]GO:0008240+F molecular\_function [name] tripeptidyl-peptidase activity [def] "Catalysis of the release of an N-terminal tripeptide from a polypeptide." [GOC

2629 Pathogen[ P14079] interacts with 2 human partners:{O14773;P29144}

2630 Pathogen[ P0C206] interacts with 1 human partners:{P29144}

2631 [Cluster 471]GO:0004715+F molecular\_function [name] non-membrane spanning protein tyrosine kinase activity [def] "Catalysis of the reaction

2632 Pathogen[ P0C206] interacts with 2 human partners:{P30291;Q9UIG0}

2633 [Cluster 472]GO:0003985+F molecular\_function [name] acetyl-CoA C-acetyltransferase activity [def] "Catalysis of the reaction

2634 Pathogen[ P0C214] interacts with 2 human partners:{P40939;Q9BWD1}

2635 Pathogen[ P03346] interacts with 1 human partners:{Q9BWD1}

2636 Pathogen[ Q85601] interacts with 1 human partners:{Q9BWD1}

2637 Pathogen[ P0C206] interacts with 1 human partners:{Q9BWD1}

2638 Pathogen[ P03363] interacts with 1 human partners:{Q9BWD1}

2639 [Cluster 473]GO:0030791+F molecular\_function [name] arsenite methyltransferase activity [def] "Catalysis of the reaction

2640 Pathogen[ P0C214] interacts with 1 human partners:{Q9HBK9}

2641 Pathogen[ P03346] interacts with 1 human partners:{Q9HBK9}

2642 Pathogen[ P14079] interacts with 1 human partners:{Q9HBK9}

2643 Pathogen[ P03410] interacts with 1 human partners:{Q9HBK9}

2644 Pathogen[ P0C206] interacts with 1 human partners:{Q9HBK9}

2645 Pathogen[ P03363] interacts with 1 human partners:{Q9HBK9}

2646 [Cluster 474]GO:0047408+F molecular\_function [name] alkenylglycerophosphocholine

hydrolase activity [def] "Catalysis of the reaction

2647 Pathogen[ P14079] interacts with 1 human partners:{Q8N661}

2648 Pathogen[ P03410] interacts with 1 human partners:{Q8N661}

2649 Pathogen[ P14075] interacts with 1 human partners:{Q8N661}

2650 Pathogen[ P0C206] interacts with 1 human partners:{Q8N661}

2651 [Cluster 475]GO:0016509+F molecular\_function [name] long-chain-3-hydroxyacyl-CoA dehydrogenase activity [def] "Catalysis of the reaction

2652 Pathogen[ P0C214] interacts with 1 human partners:{P40939}

2653 [Cluster 476]GO:0005142+F molecular\_function [name] interleukin-11 receptor binding [def] "Interacting selectively and non-covalently with the interleukin-11 receptor." [GOC

2654 Pathogen[ P14079] interacts with 1 human partners:{P20809}

2655 Pathogen[ P03410] interacts with 1 human partners:{P20809}

2656 Pathogen[ P14075] interacts with 1 human partners:{P20809}

2657 Pathogen[ P0C206] interacts with 1 human partners:{P20809}

2658 [Cluster 477]GO:0005537+F molecular\_function [name] mannose binding [def] "Interacting selectively and non-covalently with mannose, a monosaccharide hexose, stereoisomeric with glucose, that occurs naturally only in polymerized forms called mannans." [CHEBI

2659 Pathogen[ P0C214] interacts with 1 human partners:{P49257}

2660 Pathogen[ P03346] interacts with 1 human partners:{P49257}

2661 Pathogen[ Q85601] interacts with 1 human partners:{P49257}

2662 Pathogen[ P14079] interacts with 3 human partners:{P49257;O75503;Q9H0V9}

2663 Pathogen[ P03410] interacts with 3 human partners:{Q9H0V9;P49257;O75503}

2664 Pathogen[ P0C206] interacts with 1 human partners:{P49257}

2665 [Cluster 478]GO:0018169+F molecular\_function [name] ribosomal S6-glutamic acid ligase activity [def] "Catalysis of the posttranslational transfer of one or more glutamic acid residues to the C-terminus of ribosomal protein S6." [GOC

2666 Pathogen[ P0C214] interacts with 1 human partners:{P61081}

2667 Pathogen[ P03363] interacts with 1 human partners:{P61081}

2668 [Cluster 479]GO:0043398+F molecular\_function [name] HLH domain binding [def] "Interacting selectively and non-covalently with Helix Loop Helix, a domain of 40-50 residues that occurs in specific DNA-binding proteins that act as transcription factors. The domain is formed of two amphipathic helices joined by a variable length linker region that can form a loop and it mediates protein dimerization." [GOC

2669 Pathogen[ Q2Q067] interacts with 1 human partners:{P63279}

2670 Pathogen[ P0C214] interacts with 1 human partners:{P63279}

2671 Pathogen[ P03346] interacts with 1 human partners:{P63279}

2672 Pathogen[ Q85601] interacts with 1 human partners:{P63279}

2673 Pathogen[ P14079] interacts with 1 human partners:{P63279}

2674 Pathogen[ P03383] interacts with 1 human partners:{P63279}

2675 Pathogen[ P03410] interacts with 1 human partners:{P63279}

2676 Pathogen[ P14075] interacts with 1 human partners:{P63279}

2677 Pathogen[ P03363] interacts with 1 human partners:{P63279}

2678 [Cluster 480]GO:0004714+F molecular\_function [name] transmembrane receptor protein tyrosine kinase activity [def] "Combining with a signal and transmitting the signal from one side of the membrane to the other to initiate a change in cell activity by catalysis of the reaction

2679 Pathogen[ Q2Q067] interacts with 1 human partners:{P14373}

2680 Pathogen[ P0C214] interacts with 1 human partners:{P14373}

2681 Pathogen[ P03346] interacts with 1 human partners:{P14373}

2682 Pathogen[ Q85601] interacts with 1 human partners:{P14373}

2683 Pathogen[ P14079] interacts with 1 human partners:{P14373}

2684 Pathogen[ P0C206] interacts with 1 human partners:{P14373}

2685 Pathogen[ P03363] interacts with 1 human partners:{P14373}

2686 [Cluster 481]GO:0004859+F molecular\_function [name] phospholipase inhibitor activity [def] "Stops, prevents or reduces the activity of a phospholipase, an enzyme that catalyzes of the hydrolysis of a phospholipid." [GOC

2687 Pathogen[ Q2Q067] interacts with 1 human partners:{Q16143}

2688 Pathogen[ P0C214] interacts with 1 human partners:{Q16143}

2689 Pathogen[ P03346] interacts with 1 human partners:{Q16143}

2690 Pathogen[ Q85601] interacts with 1 human partners:{Q16143}

2691 Pathogen[ P14079] interacts with 4 human partners:{P04083;Q16143;P08758;P09525}

2692 Pathogen[ P03410] interacts with 1 human partners:{Q16143}

2693 Pathogen[ P0C206] interacts with 1 human partners:{Q16143}

2694 Pathogen[ P03363] interacts with 1 human partners:{Q16143}

2695 [Cluster 482]GO:0048019+F molecular\_function [name] receptor antagonist activity [def] "Interacts with receptors to reduce the action of another ligand, the agonist." [GOC

2696 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8IVG9}

2697 Pathogen[ P03346] interacts with 1 human partners:{Q8IVG9}

2698 Pathogen[ P14079] interacts with 1 human partners:{Q8IVG9}

2699 Pathogen[ P03383] interacts with 1 human partners:{Q8IVG9}

2700 Pathogen[ P03410] interacts with 1 human partners:{Q8IVG9}

2701 Pathogen[ P14075] interacts with 1 human partners:{Q8IVG9}

2702 Pathogen[ P0C206] interacts with 1 human partners:{Q8IVG9}

2703 Pathogen[ P03363] interacts with 1 human partners:{Q8IVG9}

2704 [Cluster 483]GO:0031210+F molecular\_function [name] phosphatidylcholine binding [def]



"Interacting selectively and non-covalently with phosphatidylcholine, a class of glycopospholipids in which a phosphatidyl group is esterified to the hydroxyl group of choline." [GOC

2705 Pathogen[ Q2Q067] interacts with 2 human partners:{Q86VW0;P05062}

2706 Pathogen[ P0C214] interacts with 2 human partners:{Q86VW0;P05062}

2707 Pathogen[ P03346] interacts with 2 human partners:{Q86VW0;P05062}

2708 Pathogen[ Q85601] interacts with 2 human partners:{P05062;Q86VW0}

2709 Pathogen[ P14079] interacts with 1 human partners:{Q86VW0}

2710 Pathogen[ P03410] interacts with 2 human partners:{P05062;Q86VW0}

2711 Pathogen[ P0C206] interacts with 2 human partners:{P05062;Q86VW0}

2712 Pathogen[ P03363] interacts with 1 human partners:{Q86VW0}

2713 [Cluster 484]GO:0071884+F molecular\_function [name] vitamin D receptor activator activity [def] "Interacting (directly or indirectly) with vitamin D receptors such that the proportion of receptors in the active form is increased." [GOC

2714 Pathogen[ P0C206] interacts with 1 human partners:{Q9UIG0}

2715 [Cluster 485]GO:0042586+F molecular\_function [name] peptide deformylase activity [def] "Catalysis of the reaction

2716 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9HBH1}

2717 Pathogen[ P0C214] interacts with 1 human partners:{Q9HBH1}

2718 Pathogen[ P03346] interacts with 1 human partners:{Q9HBH1}

2719 Pathogen[ Q85601] interacts with 1 human partners:{Q9HBH1}

2720 Pathogen[ P14079] interacts with 1 human partners:{Q9HBH1}

2721 Pathogen[ P03383] interacts with 1 human partners:{Q9HBH1}

2722 Pathogen[ P03410] interacts with 1 human partners:{Q9HBH1}

2723 Pathogen[ P14075] interacts with 1 human partners:{Q9HBH1}

2724 Pathogen[ P0C206] interacts with 1 human partners:{Q9HBH1}

2725 [Cluster 486]GO:0004450+F molecular\_function [name] isocitrate dehydrogenase (NADP+) activity [def] "Catalysis of the reaction

2726 Pathogen[ P0C214] interacts with 2 human partners:{O75874;P48735}

2727 [Cluster 487]GO:0008518+F molecular\_function [name] reduced folate carrier activity [def] "Catalysis of the transfer of reduced folate from one side of a membrane to the other, up its concentration gradient. The transporter binds the solute and undergoes a series of conformational changes. Transport works equally well in either direction and is driven by a chemiosmotic source of energy. Chemiosmotic sources of energy include uniport, symport or antiport." [GOC

2728 Pathogen[ P14079] interacts with 1 human partners:{Q53S99}

2729 [Cluster 488]GO:0017016+F molecular\_function [name] Ras GTPase binding [def] "Interacting selectively and non-covalently with any member of the Ras superfamily of monomeric GTPases." [GOC

2730 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BPZ7}

2731 Pathogen[ P0C214] interacts with 1 human partners:{Q9BPZ7}

2732 Pathogen[ P03346] interacts with 1 human partners:{Q9BPZ7}

2733 Pathogen[ Q85601] interacts with 1 human partners:{Q9BPZ7}

2734 Pathogen[ P14079] interacts with 1 human partners:{Q9BPZ7}

2735 Pathogen[ P03383] interacts with 1 human partners:{Q9BPZ7}

2736 Pathogen[ P03410] interacts with 1 human partners:{Q9BPZ7}

2737 Pathogen[ P14075] interacts with 1 human partners:{Q9BPZ7}

2738 Pathogen[ P0C206] interacts with 1 human partners:{Q9BPZ7}

2739 [Cluster 489]GO:0004741+F molecular\_function [name] [pyruvate dehydrogenase (lipoamide)] phosphatase activity [def] "Catalysis of the reaction

2740 Pathogen[ P0C214] interacts with 2 human partners:{Q9P0J1;Q9P2J9}

2741 [Cluster 490]GO:0004565+F molecular\_function [name] beta-galactosidase activity [def] "Catalysis of the hydrolysis of terminal, non-reducing beta-D-galactose residues in beta-D-galactosides." [EC

2742 Pathogen[ P0C214] interacts with 2 human partners:{Q9H227;P16278}

2743 Pathogen[ P03346] interacts with 1 human partners:{P16278}

2744 Pathogen[ P14079] interacts with 2 human partners:{P16278;Q6ZT21}

2745 Pathogen[ P03410] interacts with 1 human partners:{P16278}

2746 Pathogen[ P0C206] interacts with 1 human partners:{P16278}

2747 [Cluster 491]GO:0042800+F molecular\_function [name] histone methyltransferase activity (H3-K4 specific) [def] "Catalysis of the reaction

2748 Pathogen[ Q2Q067] interacts with 3 human partners:{Q8IZD2;Q9P0U4;Q9UBL3}

2749 Pathogen[ P0C214] interacts with 1 human partners:{Q8IZD2}

2750 Pathogen[ P03346] interacts with 4 human partners:{Q15291;Q9UBL3;Q9P0U4;Q8IZD2}

2751 Pathogen[ Q85601] interacts with 3 human partners:{Q9UBL3;Q9P0U4;Q8IZD2}

2752 Pathogen[ P14079] interacts with 2 human partners:{Q9UBL3;Q9P0U4}

2753 Pathogen[ P03410] interacts with 1 human partners:{Q9P0U4}

2754 Pathogen[ P0C206] interacts with 3 human partners:{Q9P0U4;Q9UBL3;Q8IZD2}

2755 Pathogen[ P03363] interacts with 5 human partners:{Q15291;Q9UBL3;Q9P0U4;O15047;Q9UPS6}

2756 [Cluster 492]GO:0005353+F molecular\_function [name] fructose transmembrane transporter activity [def] "Catalysis of the transfer of fructose from one side of the membrane to the other. Fructose exists in an open chain form or as a ring compound. D-fructose is the sweetest of the sugars and is found free in a large number of fruits and honey." [GOC

2757 Pathogen[ P03383] interacts with 1 human partners:{P22732}

2758 Pathogen[ P03410] interacts with 1 human partners:{P22732}

2759 Pathogen[ P14075] interacts with 1 human partners:{P22732}

2760 [Cluster 493]GO:0015279+F molecular\_function [name] store-operated calcium channel activity [def] "A ligand-gated ion channel activity which transports calcium in response to emptying of intracellular calcium stores." [GOC

2761 Pathogen[ P14079] interacts with 1 human partners:{Q96BY9}

2762 Pathogen[ P03410] interacts with 1 human partners:{Q96BY9}

2763 [Cluster 494]GO:0005254+F molecular\_function [name] chloride channel activity [def] "Catalysis of facilitated diffusion of a chloride (by an energy-independent process) involving passage through a transmembrane aqueous pore or channel without evidence for a carrier-mediated mechanism." [GOC

2764 Pathogen[ P03346] interacts with 2 human partners:{000299;095833}

2765 Pathogen[ P14079] interacts with 5 human partners:{A1A5B4;Q9NQ90;Q9BYT9;Q8WZ55;Q96S66}

2766 Pathogen[ P03410] interacts with 5 human partners:{Q9NQ90;Q8WZ55;Q9BYT9;Q96S66;A1A5B4}

2767 Pathogen[ P0C206] interacts with 2 human partners:{Q9NQ90;Q96S66}

2768 Pathogen[ P03363] interacts with 1 human partners:{095833}

2769 [Cluster 495]GO:0035642+F molecular\_function [name] histone methyltransferase activity (H3-R17 specific) [def] "Catalysis of the reaction

2770 Pathogen[ Q2Q067] interacts with 1 human partners:{Q86X55}

2771 Pathogen[ P0C214] interacts with 1 human partners:{Q86X55}

2772 Pathogen[ P03346] interacts with 1 human partners:{Q86X55}

2773 Pathogen[ Q85601] interacts with 1 human partners:{Q86X55}

2774 Pathogen[ P03383] interacts with 1 human partners:{Q86X55}

2775 Pathogen[ P03410] interacts with 1 human partners:{Q86X55}

2776 Pathogen[ P14075] interacts with 1 human partners:{Q86X55}

2777 Pathogen[ P0C206] interacts with 1 human partners:{Q86X55}

2778 Pathogen[ P03363] interacts with 1 human partners:{Q86X55}

2779 [Cluster 496]GO:0035312+F molecular\_function [name] 5'-3' exodeoxyribonuclease activity [def] "Catalysis of the sequential cleavage of mononucleotides from a free 5' terminus of a DNA molecule." [ISBN

2780 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UQ84}

2781 Pathogen[ P0C214] interacts with 1 human partners:{Q9UQ84}

2782 Pathogen[ P03346] interacts with 1 human partners:{Q9UQ84}

2783 Pathogen[ Q85601] interacts with 1 human partners:{Q9UQ84}

2784 Pathogen[ P14079] interacts with 1 human partners:{Q9UQ84}

2785 Pathogen[ P03410] interacts with 1 human partners:{Q9UQ84}

2786 Pathogen[ P0C206] interacts with 1 human partners:{Q9UQ84}

2787 [Cluster 497]GO:0005094+F molecular\_function [name] Rho GDP-dissociation inhibitor activity [def] "Prevents the dissociation of GDP from the small GTPase Rho, thereby preventing GTP from binding." [GOC

2788 Pathogen[ P0C214] interacts with 1 human partners:{P52565}

2789 Pathogen[ P03346] interacts with 1 human partners:{P52565}

2790 Pathogen[ Q85601] interacts with 1 human partners:{P52565}

2791 Pathogen[ P14079] interacts with 1 human partners:{P52565}

2792 Pathogen[ P03410] interacts with 1 human partners:{P52565}

2793 Pathogen[ P0C206] interacts with 1 human partners:{P52565}

2794 Pathogen[ P03363] interacts with 1 human partners:{P52565}

2795 [Cluster 498]GO:0017064+F molecular\_function [name] fatty acid amide hydrolase activity [def] "Catalysis of the hydrolysis of a fatty acid amide to yield a fatty acid." [PMID

2796 Pathogen[ P14079] interacts with 1 human partners:{000519}

2797 Pathogen[ P03410] interacts with 1 human partners:{000519}

2798 [Cluster 499]GO:0004027+F molecular\_function [name] alcohol sulfotransferase activity [def] "Catalysis of the reaction

2799 Pathogen[ Q2Q067] interacts with 1 human partners:{000204}

2800 Pathogen[ P0C214] interacts with 1 human partners:{000204}

2801 Pathogen[ P03346] interacts with 1 human partners:{000204}

2802 Pathogen[ Q85601] interacts with 1 human partners:{000204}

2803 Pathogen[ P03410] interacts with 1 human partners:{000204}

2804 Pathogen[ P0C206] interacts with 1 human partners:{000204}

2805 Pathogen[ P03363] interacts with 1 human partners:{000204}

2806 [Cluster 500]GO:0050567+F molecular\_function [name] glutaminyl-tRNA synthase (glutamine-hydrolyzing) activity [def] "Catalysis of the reaction

2807 Pathogen[ P14079] interacts with 3 human partners:{075879;043716;Q9H0R6}

2808 Pathogen[ P03410] interacts with 2 human partners:{075879;Q9H0R6}

2809 [Cluster 501]GO:0008574+F molecular\_function [name] plus-end-directed microtubule motor activity [def] "Catalysis of movement along a microtubule toward the plus end, coupled to the hydrolysis of ATP (or GTP)." [EC

2810 Pathogen[ P14079] interacts with 1 human partners:{015066}

2811 Pathogen[ P03363] interacts with 1 human partners:{015066}

2812 [Cluster 502]GO:0004516+F molecular\_function [name] nicotinate phosphoribosyltransferase activity [def] "Catalysis of the reaction

2813 Pathogen[ Q2Q067] interacts with 2 human partners:{Q6XQN6;076075}

2814 Pathogen[ P0C214] interacts with 3 human partners:{Q6XQN6;P43490;076075}

2815 Pathogen[ P03346] interacts with 2 human partners:{Q6XQN6;076075}

2816 Pathogen[ Q85601] interacts with 2 human partners:{076075;Q6XQN6}

2817 Pathogen[ P14079] interacts with 3 human partners:{076075;P43490;Q6XQN6}

2818 Pathogen[ P03410] interacts with 3 human partners:{076075;Q6XQN6;P43490}

2819 Pathogen[ P14075] interacts with 1 human partners:{Q6XQN6}

2820 Pathogen[ P0C206] interacts with 3 human partners:{Q6XQN6;076075;P43490}

2821 Pathogen[ P03363] interacts with 2 human partners:{Q6XQN6;076075}

2822 [Cluster 503]GO:0003998+F molecular\_function [name] acylphosphatase activity [def]  
"Catalysis of the reaction

2823 Pathogen[ P0C214] interacts with 1 human partners:{P07311}

2824 Pathogen[ P14079] interacts with 2 human partners:{P14621;P07311}

2825 Pathogen[ P03383] interacts with 1 human partners:{P07311}

2826 Pathogen[ P03410] interacts with 2 human partners:{P07311;P14621}

2827 Pathogen[ P14075] interacts with 1 human partners:{P07311}

2828 Pathogen[ P0C206] interacts with 2 human partners:{P07311;P14621}

2829 [Cluster 504]GO:0052929+F

2830 Pathogen[ P14079] interacts with 1 human partners:{Q96Q11}

2831 Pathogen[ P03410] interacts with 1 human partners:{Q96Q11}

2832 [Cluster 505]GO:0008437+F molecular\_function [name] thyrotropin-releasing hormone activity [def] "The action characteristic of thyrotropin-releasing hormone (TRH), a hormone released by the mammalian hypothalamus into the hypophyseal-portal circulation in response to neural and/or chemical stimuli. Upon receptor binding, TRH increases the secretion of thyroid-stimulating hormone by the anterior pituitary." [ISBN

2833 Pathogen[ P14079] interacts with 1 human partners:{P20396}

2834 Pathogen[ P03410] interacts with 1 human partners:{P20396}

2835 Pathogen[ P0C206] interacts with 1 human partners:{P20396}

2836 [Cluster 506]GO:0003919+F molecular\_function [name] FMN adenylyltransferase activity [def] "Catalysis of the reaction

2837 Pathogen[ P0C214] interacts with 1 human partners:{Q8NFF5}

2838 Pathogen[ P14079] interacts with 1 human partners:{Q8NFF5}

2839 Pathogen[ P03410] interacts with 1 human partners:{Q8NFF5}

2840 [Cluster 507]GO:0019834+F molecular\_function [name] phospholipase A2 inhibitor activity [def] "Stops, prevents or reduces the activity of the enzyme phospholipase A2." [GOC

2841 Pathogen[ P14079] interacts with 1 human partners:{P04083}

2842 [Cluster 508]GO:0004642+F molecular\_function [name] phosphoribosylformylglycinamide synthase activity [def] "Catalysis of the reaction

2843 Pathogen[ P14079] interacts with 1 human partners:{O15067}

2844 Pathogen[ P03410] interacts with 1 human partners:{O15067}

2845 [Cluster 509]GO:0070976+F molecular\_function [name] TIR domain binding [def] "Interacting selectively and non-covalently with a Toll-Interleukin receptor (TIR) domain of a protein. The TIR domain is an intracellular 200 residue domain that is found in the Toll protein, the interleukin-1 receptor (IL-1R), and MyD88\_ it contains three highly-conserved regions, and mediates protein-protein interactions between the Toll-like receptors (TLRs) and signal-transduction components." [GOC

2846 Pathogen[ P14079] interacts with 1 human partners:{Q99836}

2847 [Cluster 510]GO:0030899+F molecular\_function [name] calcium-dependent ATPase activity [def] "Catalysis of the reaction

2848 Pathogen[ P0C214] interacts with 1 human partners:{P13533}

2849 Pathogen[ Q85601] interacts with 1 human partners:{P13533}

2850 Pathogen[ P03410] interacts with 1 human partners:{P13533}

2851 Pathogen[ P0C206] interacts with 1 human partners:{P13533}

2852 [Cluster 511]GO:0008112+F molecular\_function [name] nicotinamide N-methyltransferase activity [def] "Catalysis of the reaction

2853 Pathogen[ P0C214] interacts with 1 human partners:{P40261}

2854 Pathogen[ P03346] interacts with 1 human partners:{P40261}

2855 [Cluster 512]GO:0008486+F molecular\_function [name] diphosphoinositol-polyphosphate diphosphatase activity [def] "Catalysis of the reaction

2856 Pathogen[ P0C214] interacts with 1 human partners:{O95989}

2857 Pathogen[ Q85601] interacts with 1 human partners:{O95989}

2858 Pathogen[ P14079] interacts with 4 human partners:{Q96G61;O95989;Q8NFP7;Q9NZJ9}

2859 Pathogen[ P03383] interacts with 1 human partners:{O95989}

2860 Pathogen[ P03410] interacts with 4 human partners:{Q8NFP7;Q9NZJ9;O95989;Q96G61}

2861 Pathogen[ P14075] interacts with 1 human partners:{O95989}

2862 Pathogen[ P0C206] interacts with 2 human partners:{O95989;Q8NFP7}

2863 [Cluster 513]GO:0034023+F molecular\_function [name] 5-(carboxyamino)imidazole ribonucleotide mutase activity [def] "Catalysis of the reaction

2864 Pathogen[ P14079] interacts with 1 human partners:{P22234}

2865 Pathogen[ P03410] interacts with 1 human partners:{P22234}

2866 [Cluster 514]GO:0004416+F molecular\_function [name] hydroxyacylglutathione hydrolase activity [def] "Catalysis of the reaction

2867 Pathogen[ Q2Q067] interacts with 2 human partners:{Q16775;Q8N490}

2868 Pathogen[ P0C214] interacts with 3 human partners:{Q16775;Q6PII5;Q8N490}

2869 Pathogen[ P03346] interacts with 2 human partners:{Q8N490;Q16775}

2870 Pathogen[ Q85601] interacts with 3 human partners:{Q6PII5;Q16775;Q8N490}

2871 Pathogen[ P14079] interacts with 2 human partners:{Q8N490;Q16775}

2872 Pathogen[ P03383] interacts with 2 human partners:{Q16775;Q8N490}

2873 Pathogen[ P03410] interacts with 3 human partners:{Q8N490;Q6PII5;Q16775}

2874 Pathogen[ P14075] interacts with 2 human partners:{Q8N490;Q16775}

2875 Pathogen[ P0C206] interacts with 3 human partners:{Q6PII5;Q16775;Q8N490}

2876 [Cluster 515]GO:0004161+F molecular\_function [name] dimethylallyltranstransferase activity [def] "Catalysis of the reaction

2877 Pathogen[ Q2Q067] interacts with 1 human partners:{P14324}

2878 Pathogen[ P0C214] interacts with 1 human partners:{P14324}

2879 Pathogen[ P03346] interacts with 1 human partners:{P14324}

2880 Pathogen[ Q85601] interacts with 1 human partners:{P14324}

2881 Pathogen[ P14079] interacts with 1 human partners:{P14324}

2882 Pathogen[ P03383] interacts with 1 human partners:{P14324}

2883 Pathogen[ P03410] interacts with 1 human partners:{P14324}

2884 Pathogen[ P14075] interacts with 1 human partners:{P14324}

2885 Pathogen[ P0C206] interacts with 1 human partners:{P14324}

2886 [Cluster 516]GO:0003863+F molecular\_function [name] 3-methyl-2-oxobutanoate dehydrogenase (2-methylpropanoyl-transferring) activity [def] "Catalysis of the reaction

2887 Pathogen[ Q2Q067] interacts with 1 human partners:{P21953}

2888 Pathogen[ P0C214] interacts with 2 human partners:{P12694;P21953}

2889 Pathogen[ Q85601] interacts with 1 human partners:{P21953}

2890 Pathogen[ P14079] interacts with 1 human partners:{P21953}

2891 Pathogen[ P03410] interacts with 2 human partners:{P12694;P21953}

2892 Pathogen[ P0C206] interacts with 1 human partners:{P21953}

2893 [Cluster 517]GO:0043175+F molecular\_function [name] RNA polymerase core enzyme binding [def] "Interacting selectively and non-covalently with an RNA polymerase core enzyme, containing a specific subunit composition defined as the core enzyme." [GOC

2894 Pathogen[ P03363] interacts with 1 human partners:{Q9UPN6}

2895 [Cluster 518]GO:0030228+F molecular\_function [name] lipoprotein particle receptor activity [def] "Combining with a lipoprotein particle and delivering the lipoprotein particle into the cell via endocytosis. A lipoprotein particle, also known as a lipoprotein, is a clathrate complex consisting of a lipid enwrapped in a protein host without covalent binding in such a way that the complex has a hydrophilic outer surface consisting of all the protein and the polar ends of any phospholipids." [CHEBI

2896 Pathogen[ P14079] interacts with 1 human partners:{Q0VD83}

2897 Pathogen[ P03410] interacts with 1 human partners:{Q0VD83}

2898 [Cluster 519]GO:0036141+F

2899 Pathogen[ P0C214] interacts with 1 human partners:{Q16773}

2900 [Cluster 520]GO:0004799+F molecular\_function [name] thymidylate synthase activity [def] "Catalysis of the reaction

2901 Pathogen[ Q2Q067] interacts with 1 human partners:{P04818}

2902 Pathogen[ P0C214] interacts with 1 human partners:{P04818}

2903 Pathogen[ P14079] interacts with 1 human partners:{P04818}

2904 Pathogen[ P03410] interacts with 1 human partners:{P04818}

2905 Pathogen[ P0C206] interacts with 1 human partners:{P04818}

2906 [Cluster 521]GO:0003681+F molecular\_function [name] bent DNA binding [def] "Interacting selectively and non-covalently with DNA in a bent conformation." [GOC

2907 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9Y237}

2908 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y237}

2909 Pathogen[ P03346] interacts with 1 human partners:{Q9Y237}

2910 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y237}

2911 Pathogen[ P14079] interacts with 1 human partners:{Q9Y237}

2912 Pathogen[ P03410] interacts with 1 human partners:{Q9Y237}

2913 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y237}

2914 Pathogen[ P03363] interacts with 1 human partners:{Q9Y237}

2915 [Cluster 522]GO:0030395+F molecular\_function [name] lactose binding [def] "Interacting selectively and non-covalently with lactose, a disaccharide of glucose and galactose, the carbohydrate of milk." [GOC

2916 Pathogen[ P03346] interacts with 1 human partners:{Q96DT0}

2917 Pathogen[ P14079] interacts with 2 human partners:{A8MUM7;Q96DT0}

2918 Pathogen[ P03410] interacts with 1 human partners:{Q96DT0}

2919 Pathogen[ P0C206] interacts with 1 human partners:{Q96DT0}

2920 [Cluster 523]GO:0043548+F molecular\_function [name] phosphatidylinositol 3-kinase binding [def] "Interacting selectively and non-covalently with a phosphatidylinositol 3-kinase, any enzyme that catalyzes the addition of a phosphate group to an inositol lipid at the 3' position of the inositol ring." [PMID

2921 Pathogen[ Q2Q067] interacts with 1 human partners:{P27986}

2922 Pathogen[ P0C214] interacts with 1 human partners:{P27986}

2923 Pathogen[ P03346] interacts with 1 human partners:{P27986}

2924 Pathogen[ Q85601] interacts with 1 human partners:{P27986}

2925 Pathogen[ P03383] interacts with 1 human partners:{P27986}

2926 Pathogen[ P03410] interacts with 1 human partners:{P27986}

2927 Pathogen[ P14075] interacts with 1 human partners:{P27986}

2928 Pathogen[ P0C206] interacts with 1 human partners:{P27986}

2929 Pathogen[ P03363] interacts with 1 human partners:{P27986}

2930 [Cluster 524]GO:0008434+F molecular\_function [name] vitamin D3 receptor activity [def] "Combining with vitamin D3, cholecalciferol, to initiate a change in cell activity." [GOC

2931 Pathogen[ Q2Q067] interacts with 1 human partners:{P11473}

2932 Pathogen[ P03346] interacts with 1 human partners:{P11473}

2933 Pathogen[ Q85601] interacts with 1 human partners:{P11473}

2934 Pathogen[ P14079] interacts with 1 human partners:{P11473}

2935 Pathogen[ P03383] interacts with 1 human partners:{P11473}

2936 Pathogen[ P03410] interacts with 1 human partners:{P11473}

2937 Pathogen[ P14075] interacts with 1 human partners:{P11473}

2938 Pathogen[ P0C206] interacts with 1 human partners:{P11473}

2939 Pathogen[ P03363] interacts with 1 human partners:{P11473}

2940 [Cluster 525]GO:0052895+F

2941 Pathogen[ P0C214] interacts with 1 human partners:{Q9NWM0}

2942 [Cluster 526]GO:0004129+F molecular\_function [name] cytochrome-c oxidase activity  
[def] "Catalysis of the reaction

2943 Pathogen[ Q2Q067] interacts with 1 human partners:{P13073}

2944 Pathogen[ P0C214] interacts with 3 human partners:{P12074;Q5JTTJ3;P13073}

2945 Pathogen[ P03346] interacts with 2 human partners:{P13073;Q5JTTJ3}

2946 Pathogen[ P14079] interacts with 22 human  
partners:{Q7Z4L0;O60397;P13073;Q12887;P12074;Q6YFQ2;P00395;P00403;P10606;Q02221;Q1552  
6;P14854;P20674;O14548;P09669;Q5JTTJ3;Q96KJ9;P24310;P15954;Q8TF08;O00483;P14406}

2947 Pathogen[ P03383] interacts with 2 human partners:{P13073;Q5JTTJ3}

2948 Pathogen[ P03410] interacts with 19 human  
partners:{Q96KJ9;Q02221;Q8TF08;O14548;P15954;P20674;Q6YFQ2;Q5JTTJ3;O60397;P13073;O0048  
3;P09669;P24310;P00403;P14854;Q12887;P10606;P12074;P14406}

2949 Pathogen[ P14075] interacts with 3 human partners:{Q5JTTJ3;P13073;P14406}

2950 Pathogen[ P0C206] interacts with 6 human  
partners:{P12074;P14406;Q5JTTJ3;O00483;P13073;Q02221}

2951 [Cluster 527]GO:0003988+F molecular\_function [name] acetyl-CoA C-acyltransferase  
activity [def] "Catalysis of the reaction

2952 Pathogen[ P0C214] interacts with 2 human partners:{P40939;P42765}

2953 Pathogen[ P03346] interacts with 1 human partners:{P42765}

2954 Pathogen[ P03410] interacts with 1 human partners:{P42765}

2955 [Cluster 528]GO:0001883+F molecular\_function [name] purine nucleoside binding [def]  
"Interacting selectively and non-covalently with a purine nucleoside, a compound  
consisting of a purine base linked either to ribose or deoxyribose." [GOC

2956 Pathogen[ P14079] interacts with 1 human partners:{Q9Y530}

2957 Pathogen[ P03410] interacts with 1 human partners:{Q9Y530}

2958 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y530}

2959 [Cluster 529]GO:0017042+F molecular\_function [name] glycosylceramidase activity [def]  
"Catalysis of the reaction

2960 Pathogen[ P0C214] interacts with 1 human partners:{Q9H227}

2961 [Cluster 530]GO:0008320+F molecular\_function [name] protein transmembrane transporter  
activity [def] "Catalysis of the transfer of a protein from one side of a membrane to  
the other." [GOC

2962 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9P0U1}

2963 Pathogen[ P0C214] interacts with 1 human partners:{Q9P0U1}

2964 Pathogen[ P03346] interacts with 2 human partners:{Q9NS69;Q9P0U1}

2965 Pathogen[ P14079] interacts with 2 human partners:{Q9P0U1;Q9NS69}

2966 Pathogen[ P03383] interacts with 1 human partners:{Q9P0U1}

2967 Pathogen[ P03410] interacts with 2 human partners:{Q9NS69;Q9P0U1}

2968 Pathogen[ P14075] interacts with 2 human partners:{Q9P0U1;Q9NS69}

2969 Pathogen[ P0C206] interacts with 2 human partners:{Q9NS69;Q9P0U1}

2970 Pathogen[ P03363] interacts with 2 human partners:{Q9P0U1;Q9NS69}

2971 [Cluster 531]GO:0030291+F molecular\_function [name] protein serine/threonine kinase  
inhibitor activity [def] "Stops, prevents or reduces the activity of a protein  
serine/threonine kinase." [GOC

2972 Pathogen[ Q2Q067] interacts with 1 human partners:{Q7Z699}

2973 Pathogen[ P0C214] interacts with 1 human partners:{Q7Z699}

2974 Pathogen[ P03346] interacts with 1 human partners:{Q7Z699}

2975 Pathogen[ Q85601] interacts with 1 human partners:{Q7Z699}

2976 Pathogen[ P14079] interacts with 2 human partners:{O43597;Q7Z699}

2977 Pathogen[ P03410] interacts with 2 human partners:{O43597;Q7Z699}

2978 Pathogen[ P0C206] interacts with 2 human partners:{O43597;Q7Z699}

2979 Pathogen[ P03363] interacts with 1 human partners:{Q7Z699}

2980 [Cluster 532]GO:0034597+F molecular\_function [name]  
phosphatidylinositol-4,5-bisphosphate 4-phosphatase activity [def] "Catalysis of the  
reaction

2981 Pathogen[ P14079] interacts with 2 human partners:{Q96PE3;O15327}

2982 Pathogen[ P03410] interacts with 2 human partners:{Q96PE3;O15327}

2983 [Cluster 533]GO:0045145+F molecular\_function [name] single-stranded DNA specific 5'-3'  
exodeoxyribonuclease activity [def] "Catalysis of the sequential cleavage of  
nucleotides (such as mononucleotides or dinucleotides) from a free 5' terminus of a  
single-stranded DNA molecule." [GOC

2984 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UQ84}

2985 Pathogen[ P0C214] interacts with 1 human partners:{Q9UQ84}

2986 Pathogen[ P03346] interacts with 1 human partners:{Q9UQ84}

2987 Pathogen[ Q85601] interacts with 1 human partners:{Q9UQ84}

2988 Pathogen[ P14079] interacts with 1 human partners:{Q9UQ84}

2989 Pathogen[ P03410] interacts with 1 human partners:{Q9UQ84}

2990 Pathogen[ P0C206] interacts with 1 human partners:{Q9UQ84}

2991 [Cluster 534]GO:0008310+F molecular\_function [name] single-stranded DNA specific 3'-5' exodeoxyribonuclease activity [def] "Catalysis of the sequential cleavage of mononucleotides from a free 3' terminus of a single-stranded DNA molecule." [GOC

2992 Pathogen[ P14079] interacts with 1 human partners:{Q96AZ6}

2993 Pathogen[ P03410] interacts with 1 human partners:{Q96AZ6}

2994 [Cluster 535]GO:0016530+F molecular\_function [name] metallochaperone activity [def] "Assists in the delivery of metal ions to target proteins or compartments." [GOC

2995 Pathogen[ P14079] interacts with 1 human partners:{O00244}

2996 [Cluster 536]GO:0035014+F molecular\_function [name] phosphatidylinositol 3-kinase regulator activity [def] "Modulates the activity of any of the phosphatidylinositol 3-kinases (PI3Ks). Regulatory subunits can link a PI3K catalytic subunit to upstream signaling events and help position the catalytic subunits close to their lipid substrates." [GOC

2997 Pathogen[ Q2Q067] interacts with 1 human partners:{P27986}

2998 Pathogen[ P0C214] interacts with 1 human partners:{P27986}

2999 Pathogen[ P03346] interacts with 1 human partners:{P27986}

3000 Pathogen[ Q85601] interacts with 1 human partners:{P27986}

3001 Pathogen[ P03383] interacts with 1 human partners:{P27986}

3002 Pathogen[ P03410] interacts with 1 human partners:{P27986}

3003 Pathogen[ P14075] interacts with 1 human partners:{P27986}

3004 Pathogen[ P0C206] interacts with 1 human partners:{P27986}

3005 Pathogen[ P03363] interacts with 1 human partners:{P27986}

3006 [Cluster 537]GO:0045236+F molecular\_function [name] CXCR chemokine receptor binding [def] "Interacting selectively and non-covalently with a chemokine receptor in the CXCR family." [GOC

3007 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96J02}

3008 Pathogen[ P0C214] interacts with 1 human partners:{Q96J02}

3009 Pathogen[ P03346] interacts with 1 human partners:{Q96J02}

3010 Pathogen[ Q85601] interacts with 1 human partners:{Q96J02}

3011 Pathogen[ P14079] interacts with 1 human partners:{Q96J02}

3012 Pathogen[ P0C206] interacts with 1 human partners:{Q96J02}

3013 [Cluster 538]GO:0043813+F molecular\_function [name] phosphatidylinositol-3,5-bisphosphate 5-phosphatase activity [def] "Catalysis of the reaction

3014 Pathogen[ Q2Q067] interacts with 1 human partners:{Q92562}

3015 Pathogen[ P0C214] interacts with 1 human partners:{Q92562}

3016 Pathogen[ P03346] interacts with 1 human partners:{Q92562}

3017 Pathogen[ Q85601] interacts with 1 human partners:{Q92562}

3018 Pathogen[ P14079] interacts with 1 human partners:{Q92562}

3019 Pathogen[ P03410] interacts with 1 human partners:{Q92562}

3020 Pathogen[ P0C206] interacts with 1 human partners:{Q92562}

3021 [Cluster 539]GO:0032357+F molecular\_function [name] oxidized purine DNA binding [def] "Interacting selectively and non-covalently with oxidized purine residues in DNA." [GOC

3022 Pathogen[ P0C214] interacts with 1 human partners:{P20585}

3023 Pathogen[ P03346] interacts with 1 human partners:{P20585}

3024 Pathogen[ Q85601] interacts with 1 human partners:{P20585}

3025 Pathogen[ P14079] interacts with 2 human partners:{P20585;P52701}

3026 Pathogen[ P03410] interacts with 2 human partners:{P20585;P52701}

3027 Pathogen[ P0C206] interacts with 2 human partners:{P52701;P20585}

3028 Pathogen[ P03363] interacts with 1 human partners:{P20585}

3029 [Cluster 540]GO:0004148+F molecular\_function [name] dihydrolipoyl dehydrogenase activity [def] "Catalysis of the reaction

3030 Pathogen[ P0C214] interacts with 1 human partners:{P09622}

3031 [Cluster 541]GO:0004643+F molecular\_function [name] phosphoribosylaminoimidazolecarboxamide formyltransferase activity [def] "Catalysis of the reaction

3032 Pathogen[ P0C214] interacts with 1 human partners:{P31939}

3033 Pathogen[ P14079] interacts with 1 human partners:{P31939}

3034 Pathogen[ P03410] interacts with 1 human partners:{P31939}

3035 Pathogen[ P0C206] interacts with 1 human partners:{P31939}

3036 [Cluster 542]GO:0004594+F molecular\_function [name] pantothenate kinase activity [def] "Catalysis of the reaction

3037 Pathogen[ P0C214] interacts with 2 human partners:{Q8TE04;Q9BZ23}

3038 Pathogen[ P14079] interacts with 3 human partners:{Q8TE04;Q9BZ23;Q9H999}

3039 Pathogen[ P03383] interacts with 1 human partners:{Q9BZ23}

3040 Pathogen[ P03410] interacts with 2 human partners:{Q8TE04;Q9BZ23}

3041 Pathogen[ P14075] interacts with 2 human partners:{Q8TE04;Q9BZ23}

3042 Pathogen[ P0C206] interacts with 2 human partners:{Q8TE04;Q9BZ23}

3043 [Cluster 543]GO:0004149+F molecular\_function [name] dihydrolipoyllysine-residue succinyltransferase activity [def] "Catalysis of the reaction

3044 Pathogen[ P0C214] interacts with 1 human partners:{P36957}

3045 [Cluster 544]GO:0047860+F molecular\_function [name] diiodophenylpyruvate reductase activity [def] "Catalysis of the reaction

3046 Pathogen[ Q2Q067] interacts with 1 human partners:{P40925}

3047 Pathogen[ P03346] interacts with 1 human partners:{P40925}  
3048 Pathogen[ Q85601] interacts with 1 human partners:{P40925}  
3049 Pathogen[ P14079] interacts with 1 human partners:{P40925}  
3050 Pathogen[ P03383] interacts with 1 human partners:{P40925}  
3051 Pathogen[ P03410] interacts with 1 human partners:{P40925}  
3052 Pathogen[ P14075] interacts with 1 human partners:{P40925}  
3053 Pathogen[ P0C206] interacts with 1 human partners:{P40925}  
3054 Pathogen[ P03363] interacts with 1 human partners:{P40925}  
3055 [Cluster 545]GO:0005310+F molecular\_function [name] dicarboxylic acid transmembrane transporter activity [def] "Catalysis of the transfer of dicarboxylic acids from one side of the membrane to the other. A dicarboxylic acid is an organic acid with two COOH groups." [GOC  
3056 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UBX3}  
3057 Pathogen[ P0C214] interacts with 1 human partners:{Q9UBX3}  
3058 Pathogen[ P03346] interacts with 1 human partners:{Q9UBX3}  
3059 Pathogen[ Q85601] interacts with 1 human partners:{Q9UBX3}  
3060 Pathogen[ P03410] interacts with 1 human partners:{Q9UBX3}  
3061 Pathogen[ P0C206] interacts with 1 human partners:{Q9UBX3}  
3062 [Cluster 546]GO:0008526+F molecular\_function [name] phosphatidylinositol transporter activity [def] "Enables the directed movement of phosphatidylinositol into, out of or within a cell, or between cells. Phosphatidylinositol refers to any glycosphospholipids with its sn-glycerol 3-phosphate residue is esterified to the 1-hydroxyl group of 1D-myo-inositol." [GOC  
3063 Pathogen[ P14079] interacts with 1 human partners:{Q9UKF7}  
3064 Pathogen[ P03410] interacts with 1 human partners:{Q9UKF7}  
3065 Pathogen[ P03363] interacts with 1 human partners:{Q9UKF7}  
3066 [Cluster 547]GO:0050480+F molecular\_function [name] imidazolonepropionase activity [def] "Catalysis of the reaction  
3067 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96NU7}  
3068 Pathogen[ P0C214] interacts with 1 human partners:{Q96NU7}  
3069 Pathogen[ P03346] interacts with 1 human partners:{Q96NU7}  
3070 Pathogen[ P14079] interacts with 1 human partners:{Q96NU7}  
3071 Pathogen[ P03410] interacts with 1 human partners:{Q96NU7}  
3072 Pathogen[ P14075] interacts with 1 human partners:{Q96NU7}  
3073 Pathogen[ P0C206] interacts with 1 human partners:{Q96NU7}  
3074 [Cluster 548]GO:0004042+F molecular\_function [name] acetyl-CoA [def] "Catalysis of the reaction  
3075 Pathogen[ P0C214] interacts with 1 human partners:{Q8N159}  
3076 Pathogen[ P14079] interacts with 1 human partners:{Q8N159}  
3077 Pathogen[ P03383] interacts with 1 human partners:{Q8N159}  
3078 Pathogen[ P03410] interacts with 1 human partners:{Q8N159}  
3079 Pathogen[ P14075] interacts with 1 human partners:{Q8N159}  
3080 Pathogen[ P0C206] interacts with 1 human partners:{Q8N159}  
3081 [Cluster 549]GO:0070008+F molecular\_function [name] serine-type exopeptidase activity [def] "Catalysis of the hydrolysis of a peptide bond not more than three residues from the N- or C-terminus of a polypeptide chain by a catalytic mechanism that involves a catalytic triad consisting of a serine nucleophile that is activated by a proton relay involving an acidic residue (e.g. aspartate or glutamate) and a basic residue (usually histidine)." [GOC  
3082 Pathogen[ Q2Q067] interacts with 1 human partners:{P48147}  
3083 Pathogen[ P0C214] interacts with 1 human partners:{P48147}  
3084 Pathogen[ P03346] interacts with 1 human partners:{P48147}  
3085 Pathogen[ Q85601] interacts with 1 human partners:{P48147}  
3086 Pathogen[ P14079] interacts with 1 human partners:{P48147}  
3087 Pathogen[ P03383] interacts with 1 human partners:{P48147}  
3088 Pathogen[ P03410] interacts with 1 human partners:{P48147}  
3089 Pathogen[ P0C206] interacts with 1 human partners:{P48147}  
3090 [Cluster 550]GO:0004775+F molecular\_function [name] succinate-CoA ligase (ADP-forming) activity [def] "Catalysis of the reaction  
3091 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9P2R7}  
3092 Pathogen[ P0C214] interacts with 2 human partners:{P53396;Q9P2R7}  
3093 Pathogen[ Q85601] interacts with 1 human partners:{Q9P2R7}  
3094 Pathogen[ P14079] interacts with 1 human partners:{Q9P2R7}  
3095 Pathogen[ P03383] interacts with 1 human partners:{Q9P2R7}  
3096 Pathogen[ P03410] interacts with 1 human partners:{Q9P2R7}  
3097 Pathogen[ P14075] interacts with 1 human partners:{Q9P2R7}  
3098 Pathogen[ P0C206] interacts with 1 human partners:{Q9P2R7}  
3099 [Cluster 551]GO:0035870+F molecular\_function [name] dITP diphosphatase activity [def] "Catalysis of the reaction  
3100 Pathogen[ P14079] interacts with 1 human partners:{Q9BY32}  
3101 Pathogen[ P03410] interacts with 1 human partners:{Q9BY32}  
3102 Pathogen[ P0C206] interacts with 1 human partners:{Q9BY32}  
3103 [Cluster 552]GO:0030023+F molecular\_function [name] extracellular matrix constituent conferring elasticity [def] "A component of the extracellular matrix that enables the matrix to recoil after transient stretching." [GOC  
3104 Pathogen[ P14079] interacts with 1 human partners:{P15502}

3105 Pathogen[ P03383] interacts with 1 human partners:{P15502}  
 3106 Pathogen[ P03410] interacts with 1 human partners:{P15502}  
 3107 Pathogen[ P14075] interacts with 1 human partners:{P15502}  
 3108 Pathogen[ P0C206] interacts with 1 human partners:{P15502}  
 3109 [Cluster 553]GO:0008419+F molecular\_function [name] RNA lariat debranching enzyme activity [def] "Catalysis of the hydrolysis of branched RNA structures that contain vicinal 2'-5'- and 3'-5'-phosphodiester bonds at a branch point nucleotide." [PMID  
 3110 Pathogen[ P03346] interacts with 1 human partners:{Q9UK59}  
 3111 Pathogen[ P14079] interacts with 1 human partners:{Q9UK59}  
 3112 Pathogen[ P03410] interacts with 1 human partners:{Q9UK59}  
 3113 Pathogen[ P0C206] interacts with 1 human partners:{Q9UK59}  
 3114 [Cluster 554]GO:0008107+F molecular\_function [name] galactoside 2-alpha-L-fucosyltransferase activity [def] "Catalysis of the reaction  
 3115 Pathogen[ Q2Q067] interacts with 1 human partners:{O75122}  
 3116 Pathogen[ P0C214] interacts with 1 human partners:{O75122}  
 3117 Pathogen[ P03346] interacts with 1 human partners:{O75122}  
 3118 Pathogen[ Q85601] interacts with 1 human partners:{O75122}  
 3119 Pathogen[ P14079] interacts with 1 human partners:{O75122}  
 3120 Pathogen[ P03410] interacts with 1 human partners:{O75122}  
 3121 Pathogen[ P0C206] interacts with 1 human partners:{O75122}  
 3122 [Cluster 555]GO:0032142+F molecular\_function [name] single guanine insertion binding [def] "Interacting selectively and non-covalently with double-stranded DNA containing a single guanine insertion or a deletion that results in an unpaired guanine." [GOC  
 3123 Pathogen[ P0C214] interacts with 1 human partners:{P20585}  
 3124 Pathogen[ P03346] interacts with 1 human partners:{P20585}  
 3125 Pathogen[ Q85601] interacts with 1 human partners:{P20585}  
 3126 Pathogen[ P14079] interacts with 2 human partners:{P20585;P52701}  
 3127 Pathogen[ P03410] interacts with 2 human partners:{P20585;P52701}  
 3128 Pathogen[ P0C206] interacts with 2 human partners:{P52701;P20585}  
 3129 Pathogen[ P03363] interacts with 1 human partners:{P20585}  
 3130 [Cluster 556]GO:0004325+F molecular\_function [name] ferrocyclase activity [def] "Catalysis of the reaction  
 3131 Pathogen[ P0C214] interacts with 1 human partners:{P22830}  
 3132 Pathogen[ P14079] interacts with 1 human partners:{P22830}  
 3133 Pathogen[ P03410] interacts with 1 human partners:{P22830}  
 3134 Pathogen[ P0C206] interacts with 1 human partners:{P22830}  
 3135 [Cluster 557]GO:0008898+F molecular\_function [name] homocysteine S-methyltransferase activity [def] "Catalysis of the reaction  
 3136 Pathogen[ P14079] interacts with 1 human partners:{Q9H2M3}  
 3137 Pathogen[ P03410] interacts with 1 human partners:{Q9H2M3}  
 3138 Pathogen[ P0C206] interacts with 1 human partners:{Q9H2M3}  
 3139 [Cluster 558]GO:0050145+F molecular\_function [name] nucleoside phosphate kinase activity [def] "Catalysis of the reaction  
 3140 Pathogen[ P0C214] interacts with 1 human partners:{P23919}  
 3141 Pathogen[ P14079] interacts with 1 human partners:{P23919}  
 3142 Pathogen[ P03410] interacts with 1 human partners:{P23919}  
 3143 [Cluster 559]GO:0052795+F molecular\_function [name] exo-alpha-(2->6)-sialidase activity [def] "Catalysis of the hydrolysis of alpha-(2->6)-glycosidic linkages of terminal sialic residues in substrates." [EC  
 3144 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8WWR8}  
 3145 Pathogen[ P0C214] interacts with 2 human partners:{Q8WWR8;Q9Y3R4}  
 3146 Pathogen[ P03346] interacts with 1 human partners:{Q8WWR8}  
 3147 Pathogen[ P14079] interacts with 2 human partners:{Q8WWR8;Q9Y3R4}  
 3148 Pathogen[ P03383] interacts with 1 human partners:{Q8WWR8}  
 3149 Pathogen[ P03410] interacts with 2 human partners:{Q9Y3R4;Q8WWR8}  
 3150 Pathogen[ P14075] interacts with 1 human partners:{Q8WWR8}  
 3151 Pathogen[ P0C206] interacts with 2 human partners:{Q9Y3R4;Q8WWR8}  
 3152 [Cluster 560]GO:0005351+F molecular\_function [name] sugar [def] "Catalysis of the transfer of a solute or solutes from one side of a membrane to the other according to the reaction  
 3153 Pathogen[ P14079] interacts with 1 human partners:{Q96G79}  
 3154 Pathogen[ P03410] interacts with 1 human partners:{Q96G79}  
 3155 [Cluster 561]GO:0004659+F molecular\_function [name] prenyltransferase activity [def] "Catalysis of the transfer of a prenyl group from one compound (donor) to another (acceptor)." [GOC  
 3156 Pathogen[ Q2Q067] interacts with 2 human partners:{P49356;P49354}  
 3157 Pathogen[ P0C214] interacts with 2 human partners:{P49354;P49356}  
 3158 Pathogen[ P03346] interacts with 3 human partners:{P49354;P49356;P53611}  
 3159 Pathogen[ Q85601] interacts with 2 human partners:{P49354;P49356}  
 3160 Pathogen[ P14079] interacts with 4 human partners:{Q12887;P49354;P49356;Q9Y5Z9}  
 3161 Pathogen[ P03410] interacts with 5 human partners:{P49354;P49356;Q9Y5Z9;P53611;Q12887}  
 3162 Pathogen[ P0C206] interacts with 4 human partners:{Q9Y5Z9;P49354;P49356;P53611}  
 3163 Pathogen[ P03363] interacts with 1 human partners:{P49354}  
 3164 [Cluster 562]GO:0004553+F molecular\_function [name] hydrolase activity, hydrolyzing O-glycosyl compounds [def] "Catalysis of the hydrolysis of any O-glycosyl bond." [GOC



3165 Pathogen[ P0C214] interacts with 6 human partners:{Q04446;Q15486;Q9H227;Q93100;P46020;P16278}

3166 Pathogen[ P03346] interacts with 2 human partners:{P16278;Q8WVB3}

3167 Pathogen[ Q85601] interacts with 2 human partners:{Q15486;Q04446}

3168 Pathogen[ P14079] interacts with 10 human partners:{P16278;P35475;Q93100;Q9NTJ4;P06280;Q6P575;P17050;Q15486;Q8WVB3;P46020}

3169 Pathogen[ P03410] interacts with 8 human partners:{P46020;Q04446;P16278;Q93100;Q15486;Q9NTJ4;Q8WVB3;Q6P575}

3170 Pathogen[ P14075] interacts with 1 human partners:{Q93100}

3171 Pathogen[ P0C206] interacts with 7 human partners:{Q93100;Q6P575;Q04446;P46020;Q8WVB3;Q15486;P16278}

3172 Pathogen[ P03363] interacts with 1 human partners:{Q8WVB3}

3173 [Cluster 563]GO:0052655+F molecular\_function [name] L-valine transaminase activity [def] "Catalysis of the reaction Pathogen[ P0C214] interacts with 2 human partners:{O15382;P54687}

3174 Pathogen[ Q85601] interacts with 1 human partners:{O15382}

3175 Pathogen[ P14079] interacts with 1 human partners:{O15382}

3176 Pathogen[ P03410] interacts with 1 human partners:{O15382}

3177 Pathogen[ P0C206] interacts with 1 human partners:{O15382}

3178 Pathogen[ P0C206] interacts with 1 human partners:{O15382}

3179 [Cluster 564]GO:0004767+F molecular\_function [name] sphingomyelin phosphodiesterase activity [def] "Catalysis of the reaction Pathogen[ P14079] interacts with 3 human partners:{Q9NY59;Q9NXE4;P17405}

3180 Pathogen[ P03410] interacts with 2 human partners:{Q9NXE4;P17405}

3181 [Cluster 565]GO:0016841+F molecular\_function [name] ammonia-lyase activity [def] "Catalysis of the release of ammonia by the cleavage of a carbon-nitrogen bond or the reverse reaction with ammonia as a substrate." [EC Pathogen[ P14079] interacts with 1 human partners:{P42357}

3182 [Cluster 566]GO:0071567+F molecular\_function [name] UFM1 hydrolase activity [def] "Catalysis of the hydrolysis of UFM1, a small ubiquitin-related modifier, from previously modified substrates." [GOC Pathogen[ P14079] interacts with 1 human partners:{Q6NVU6}

3183 Pathogen[ P03410] interacts with 1 human partners:{Q6NVU6}

3184 Pathogen[ P14075] interacts with 1 human partners:{Q6NVU6}

3185 [Cluster 567]GO:0001011+F molecular\_function [name] sequence-specific DNA binding RNA polymerase recruiting transcription factor activity [def] "Interacting selectively and non-covalently with a specific DNA sequence and recruiting RNA polymerase to the DNA in order to form the preinitiation complex (PIC)." [GOC Pathogen[ Q2Q067] interacts with 1 human partners:{P15884}

3186 Pathogen[ P0C214] interacts with 1 human partners:{P15884}

3187 Pathogen[ P03346] interacts with 1 human partners:{P15884}

3188 Pathogen[ Q85601] interacts with 1 human partners:{P15884}

3189 Pathogen[ P14079] interacts with 1 human partners:{P15884}

3190 Pathogen[ P03410] interacts with 1 human partners:{P15884}

3191 Pathogen[ P14075] interacts with 1 human partners:{P15884}

3192 Pathogen[ P0C206] interacts with 1 human partners:{P15884}

3193 Pathogen[ P03363] interacts with 1 human partners:{P15884}

3194 [Cluster 568]GO:0047555+F molecular\_function [name] 3',5'-cyclic-GMP phosphodiesterase activity [def] "Catalysis of the reaction Pathogen[ P0C214] interacts with 3 human partners:{P18545;Q13956;O76083}

3195 Pathogen[ P14079] interacts with 2 human partners:{P18545;Q13956}

3196 Pathogen[ P03410] interacts with 2 human partners:{Q13956;P18545}

3197 Pathogen[ P0C206] interacts with 2 human partners:{P18545;Q13956}

3198 [Cluster 569]GO:0034647+F molecular\_function [name] histone demethylase activity (H3-trimethyl-K4 specific) [def] "Catalysis of the removal of a methyl group from trimethylated lysine at position 4 of the histone H3 protein." [GOC Pathogen[ P03346] interacts with 1 human partners:{Q9UGL1}

3199 [Cluster 570]GO:0052632+F molecular\_function [name] citrate hydro-lyase (cis-aconitate-forming) activity [def] "Catalysis of the reaction Pathogen[ Q2Q067] interacts with 1 human partners:{P21399}

3200 Pathogen[ P0C214] interacts with 2 human partners:{Q99798;P21399}

3201 Pathogen[ P03346] interacts with 1 human partners:{P21399}

3202 Pathogen[ Q85601] interacts with 1 human partners:{P21399}

3203 Pathogen[ P14079] interacts with 1 human partners:{P21399}

3204 Pathogen[ P03410] interacts with 1 human partners:{P21399}

3205 Pathogen[ P0C206] interacts with 2 human partners:{Q99798;P21399}

3206 [Cluster 571]GO:0052927+F Pathogen[ P14079] interacts with 1 human partners:{Q96Q11}

3207 Pathogen[ P03410] interacts with 1 human partners:{Q96Q11}

3208 [Cluster 572]GO:0004512+F molecular\_function [name] inositol-3-phosphate synthase activity [def] "Catalysis of the reaction Pathogen[ P14079] interacts with 1 human partners:{Q9NPH2}

3209 Pathogen[ P03410] interacts with 1 human partners:{Q9NPH2}

3210 [Cluster 573]GO:0003940+F molecular\_function [name] L-iduronidase activity [def] "Catalysis of the hydrolysis of alpha-L-iduronosidic linkages in dermatan sulfate." [EC Pathogen[ P14079] interacts with 1 human partners:{P35475}

3211 Pathogen[ P14079] interacts with 1 human partners:{P35475}

3212 [Cluster 574]GO:0004493+F molecular\_function [name] methylmalonyl-CoA epimerase

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activity [def] "Catalysis of the reaction
3222 Pathogen[ P0C214] interacts with 1 human partners:{Q96PE7}
3223 Pathogen[ P03346] interacts with 1 human partners:{Q96PE7}
3224 Pathogen[ P14079] interacts with 1 human partners:{Q96PE7}
3225 Pathogen[ P03410] interacts with 1 human partners:{Q96PE7}
3226 Pathogen[ P0C206] interacts with 1 human partners:{Q96PE7}
3227 [Cluster 575]GO:0030429+F molecular_function [name] kynureninase activity [def]
"Catalysis of the reaction
3228 Pathogen[ Q2Q067] interacts with 1 human partners:{Q16719}
3229 Pathogen[ P0C214] interacts with 1 human partners:{Q16719}
3230 Pathogen[ P03346] interacts with 1 human partners:{Q16719}
3231 Pathogen[ Q85601] interacts with 1 human partners:{Q16719}
3232 Pathogen[ P14079] interacts with 1 human partners:{Q16719}
3233 Pathogen[ P03383] interacts with 1 human partners:{Q16719}
3234 Pathogen[ P03410] interacts with 1 human partners:{Q16719}
3235 Pathogen[ P14075] interacts with 1 human partners:{Q16719}
3236 Pathogen[ P0C206] interacts with 1 human partners:{Q16719}
3237 [Cluster 576]GO:0008376+F molecular_function [name] acetylgalactosaminyltransferase
activity [def] "Catalysis of the transfer of an N-acetylgalactosaminyl residue from
UDP-N-acetyl-galactosamine to an oligosaccharide." [ISBN
3238 Pathogen[ P03410] interacts with 1 human partners:{Q8NHY0}
3239 [Cluster 577]GO:0002135+F molecular_function [name] CTP binding [def] "Interacting
selectively and non-covalently with CTP, cytidine 5'-triphosphate." [GOC
3240 Pathogen[ Q2Q067] interacts with 1 human partners:{P08238}
3241 Pathogen[ P03346] interacts with 1 human partners:{P08238}
3242 Pathogen[ Q85601] interacts with 1 human partners:{P08238}
3243 Pathogen[ P14079] interacts with 1 human partners:{P08238}
3244 Pathogen[ P03383] interacts with 1 human partners:{P08238}
3245 Pathogen[ P03410] interacts with 1 human partners:{P08238}
3246 Pathogen[ P14075] interacts with 1 human partners:{P08238}
3247 Pathogen[ P0C206] interacts with 1 human partners:{P08238}
3248 Pathogen[ P03363] interacts with 1 human partners:{P08238}
3249 [Cluster 578]GO:0047409+F molecular_function [name] alkenylglycerophosphoethanolamine
hydrolase activity [def] "Catalysis of the reaction
3250 Pathogen[ P14079] interacts with 1 human partners:{Q8N661}
3251 Pathogen[ P03410] interacts with 1 human partners:{Q8N661}
3252 Pathogen[ P14075] interacts with 1 human partners:{Q8N661}
3253 Pathogen[ P0C206] interacts with 1 human partners:{Q8N661}
3254 [Cluster 579]GO:0045309+F molecular_function [name] protein phosphorylated amino acid
binding [def] "Interacting selectively and non-covalently with a phosphorylated amino
acid residue within a protein." [GOC
3255 Pathogen[ Q2Q067] interacts with 2 human partners:{P46108;Q9Y297}
3256 Pathogen[ P0C214] interacts with 2 human partners:{Q9Y297;P46108}
3257 Pathogen[ P03346] interacts with 2 human partners:{P46108;Q9Y297}
3258 Pathogen[ Q85601] interacts with 1 human partners:{P46108}
3259 Pathogen[ P14079] interacts with 1 human partners:{P46108}
3260 Pathogen[ P03410] interacts with 1 human partners:{P46108}
3261 Pathogen[ P0C206] interacts with 1 human partners:{P46108}
3262 Pathogen[ P03363] interacts with 1 human partners:{P46108}
3263 [Cluster 580]GO:0008444+F molecular_function [name]
CDP-diacylglycerol-glycerol-3-phosphate 3-phosphatidyltransferase activity [def]
"Catalysis of the reaction
3264 Pathogen[ P14079] interacts with 1 human partners:{Q32NB8}
3265 [Cluster 581]GO:0071949+F molecular_function [name] FAD binding [def] "Interacting
selectively and non-covalently with the oxidized form, FAD, of flavin-adenine
dinucleotide, the coenzyme or the prosthetic group of various flavoprotein oxidoreductase
enzymes." [GOC
3266 Pathogen[ P03346] interacts with 1 human partners:{Q8TDZ2}
3267 Pathogen[ P14079] interacts with 1 human partners:{Q8TDZ2}
3268 Pathogen[ P03410] interacts with 1 human partners:{Q8TDZ2}
3269 Pathogen[ P0C206] interacts with 1 human partners:{Q8TDZ2}
3270 [Cluster 582]GO:0000257+F molecular_function [name] nitrilase activity [def]
"Catalysis of the reaction
3271 Pathogen[ P03346] interacts with 1 human partners:{Q86X76}
3272 Pathogen[ P03410] interacts with 1 human partners:{Q86X76}
3273 Pathogen[ P0C206] interacts with 1 human partners:{Q86X76}
3274 [Cluster 583]GO:0008418+F molecular_function [name] protein-N-terminal asparagine
amidohydrolase activity [def] "Catalysis of the reaction
3275 Pathogen[ P03346] interacts with 1 human partners:{Q96AB6}
3276 Pathogen[ P14079] interacts with 1 human partners:{Q96AB6}
3277 Pathogen[ P03410] interacts with 1 human partners:{Q96AB6}
3278 Pathogen[ P0C206] interacts with 1 human partners:{Q96AB6}
3279 Pathogen[ P03363] interacts with 1 human partners:{Q96AB6}
3280 [Cluster 584]GO:0015928+F molecular_function [name] fucosidase activity [def]
"Catalysis of the hydrolysis of fucosyl compounds, substances containing a group derived
from a cyclic form of fucose or a fucose derivative." [GOC

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3281 Pathogen[ P14079] interacts with 1 human partners:{P04066}

3282 Pathogen[ P03410] interacts with 1 human partners:{P04066}

3283 [Cluster 585]GO:0005540+F molecular\_function [name] hyaluronic acid binding [def]  
"Interacting selectively and non-covalently with hyaluronic acid, a polymer composed of repeating dimeric units of glucuronic acid and N-acetyl glucosamine." [CHEBI

3284 Pathogen[ P0C214] interacts with 1 human partners:{075330}

3285 Pathogen[ P03346] interacts with 1 human partners:{075330}

3286 Pathogen[ Q85601] interacts with 1 human partners:{075330}

3287 Pathogen[ P14079] interacts with 1 human partners:{075330}

3288 Pathogen[ P03410] interacts with 1 human partners:{075330}

3289 Pathogen[ P14075] interacts with 1 human partners:{075330}

3290 Pathogen[ P0C206] interacts with 1 human partners:{075330}

3291 [Cluster 586]GO:0002046+F molecular\_function [name] opsin binding [def]  
"Interacting selectively and non-covalently with an opsin, any of a group of hydrophobic, integral membrane glycoproteins located primarily in the disc membrane of rods or cones, involved in photoreception." [GOC

3292 Pathogen[ P03363] interacts with 1 human partners:{P36575}

3293 [Cluster 587]GO:0008158+F molecular\_function [name] hedgehog receptor activity [def]  
"Combining with a member of the hedgehog protein family and transmitting the signal across the membrane to initiate a change in cell activity." [GOC

3294 Pathogen[ P14079] interacts with 1 human partners:{Q9UPM9}

3295 Pathogen[ P03410] interacts with 1 human partners:{Q9UPM9}

3296 Pathogen[ P0C206] interacts with 1 human partners:{Q9UPM9}

3297 [Cluster 588]GO:0032454+F molecular\_function [name] histone demethylase activity (H3-K9 specific) [def] "Catalysis of the reaction

3298 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9UPP1;075151}

3299 Pathogen[ P0C214] interacts with 2 human partners:{075151;Q9UPP1}

3300 Pathogen[ P03346] interacts with 2 human partners:{075151;Q9UPP1}

3301 Pathogen[ Q85601] interacts with 2 human partners:{075151;Q9UPP1}

3302 Pathogen[ P14079] interacts with 2 human partners:{075151;Q9UPP1}

3303 Pathogen[ P03383] interacts with 2 human partners:{075151;Q9UPP1}

3304 Pathogen[ P03410] interacts with 2 human partners:{Q9UPP1;075151}

3305 Pathogen[ P14075] interacts with 2 human partners:{Q9UPP1;075151}

3306 Pathogen[ P0C206] interacts with 2 human partners:{Q9UPP1;075151}

3307 [Cluster 589]GO:0004163+F molecular\_function [name] diphosphomevalonate decarboxylase activity [def] "Catalysis of the reaction

3308 Pathogen[ P14079] interacts with 1 human partners:{P53602}

3309 Pathogen[ P03410] interacts with 1 human partners:{P53602}

3310 [Cluster 590]GO:0008191+F molecular\_function [name] metalloendopeptidase inhibitor activity [def] "Stops, prevents or reduces the activity of metalloendopeptidases, enzymes that catalyze the hydrolysis of nonterminal peptide bonds in a polypeptide chain and contain a chelated metal ion at their active sites which is essential to their catalytic activity." [GOC

3311 Pathogen[ P14079] interacts with 1 human partners:{Q9BS40}

3312 Pathogen[ P03410] interacts with 1 human partners:{Q9BS40}

3313 [Cluster 591]GO:0015232+F molecular\_function [name] heme transporter activity [def]  
"Enables the directed movement of heme, any compound of iron complexed in a porphyrin (tetrapyrrole) ring, into, out of or within a cell, or between cells." [GOC

3314 Pathogen[ P14079] interacts with 1 human partners:{Q96NT5}

3315 [Cluster 592]GO:0004791+F molecular\_function [name] thioredoxin-disulfide reductase activity [def] "Catalysis of the reaction

3316 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NNW7}

3317 Pathogen[ P0C214] interacts with 2 human partners:{Q9NNW7;Q16881}

3318 Pathogen[ P03346] interacts with 1 human partners:{Q9NNW7}

3319 Pathogen[ P14079] interacts with 1 human partners:{Q9NNW7}

3320 Pathogen[ P03410] interacts with 1 human partners:{Q9NNW7}

3321 Pathogen[ P0C206] interacts with 1 human partners:{Q9NNW7}

3322 Pathogen[ P03363] interacts with 1 human partners:{Q9NNW7}

3323 [Cluster 593]GO:0032810+F molecular\_function [name] sterol response element binding [def] "Interacting selectively and non-covalently with the sterol response element (SRE), a nonpalindromic sequence found in the promoters of genes involved in lipid metabolism." [GOC

3324 Pathogen[ Q2Q067] interacts with 1 human partners:{P36956}

3325 Pathogen[ P03346] interacts with 1 human partners:{P36956}

3326 Pathogen[ Q85601] interacts with 1 human partners:{P36956}

3327 Pathogen[ P14079] interacts with 1 human partners:{P36956}

3328 Pathogen[ P03410] interacts with 1 human partners:{P36956}

3329 Pathogen[ P0C206] interacts with 1 human partners:{P36956}

3330 [Cluster 594]GO:0016316+F molecular\_function [name] phosphatidylinositol-3,4-bisphosphate 4-phosphatase activity [def] "Catalysis of the reaction

3331 Pathogen[ P14079] interacts with 2 human partners:{Q96PE3;O15327}

3332 Pathogen[ P03410] interacts with 2 human partners:{Q96PE3;O15327}

3333 [Cluster 595]GO:0004723+F molecular\_function [name] calcium-dependent protein serine/threonine phosphatase activity [def] "Catalysis of the reactions

3334 Pathogen[ Q2Q067] interacts with 1 human partners:{Q08209}

3335 Pathogen[ P0C214] interacts with 1 human partners:{Q08209}

3336 Pathogen[ P03346] interacts with 1 human partners:{Q08209}

3337 Pathogen[ Q85601] interacts with 1 human partners:{Q08209}

3338 Pathogen[ P14079] interacts with 2 human partners:{P16298;Q08209}

3339 Pathogen[ P03410] interacts with 2 human partners:{Q08209;P63098}

3340 Pathogen[ P0C206] interacts with 1 human partners:{Q08209}

3341 [Cluster 596]GO:0035727+F molecular\_function [name] lysophosphatidic acid binding  
[def] "Interacting selectively and non-covalently with lysophosphatidic acid (LPA), a phospholipid derivative that acts as a potent mitogen due to its activation of high-affinity G-protein-coupled receptors." [CHEBI]

3342 Pathogen[ P14079] interacts with 1 human partners:{P09327}

3343 [Cluster 597]GO:0019799+F molecular\_function [name] tubulin N-acetyltransferase activity [def] "Catalysis of the reaction

3344 Pathogen[ P14079] interacts with 1 human partners:{Q5SQI0}

3345 Pathogen[ P03410] interacts with 1 human partners:{Q5SQI0}

3346 [Cluster 598]GO:0004052+F molecular\_function [name] arachidonate 12-lipoxygenase activity [def] "Catalysis of the reaction

3347 Pathogen[ P0C214] interacts with 1 human partners:{P18054}

3348 Pathogen[ P03346] interacts with 1 human partners:{P18054}

3349 [Cluster 599]GO:0016936+F molecular\_function [name] galactoside binding [def] "Interacting selectively and non-covalently with any glycoside in which the sugar group is galactose." [CHEBI]

3350 Pathogen[ P0C214] interacts with 1 human partners:{P16278}

3351 Pathogen[ P03346] interacts with 1 human partners:{P16278}

3352 Pathogen[ P14079] interacts with 2 human partners:{P16278;P06280}

3353 Pathogen[ P03410] interacts with 1 human partners:{P16278}

3354 Pathogen[ P0C206] interacts with 1 human partners:{P16278}

3355 [Cluster 600]GO:0047429+F molecular\_function [name] nucleoside-triphosphate diphosphatase activity [def] "Catalysis of the reaction

3356 Pathogen[ P14079] interacts with 2 human partners:{Q9H773;Q9BY32}

3357 Pathogen[ P03410] interacts with 2 human partners:{Q9H773;Q9BY32}

3358 Pathogen[ P0C206] interacts with 1 human partners:{Q9BY32}

3359 [Cluster 601]GO:0008747+F molecular\_function [name] N-acetylneuraminate lyase activity [def] "Catalysis of the reaction

3360 Pathogen[ P0C214] interacts with 1 human partners:{Q9BXD5}

3361 Pathogen[ Q85601] interacts with 1 human partners:{Q9BXD5}

3362 Pathogen[ P14079] interacts with 1 human partners:{Q9BXD5}

3363 Pathogen[ P03410] interacts with 1 human partners:{Q9BXD5}

3364 Pathogen[ P14075] interacts with 1 human partners:{Q9BXD5}

3365 Pathogen[ P0C206] interacts with 1 human partners:{Q9BXD5}

3366 Pathogen[ P03363] interacts with 1 human partners:{Q9BXD5}

3367 [Cluster 602]GO:0043495+F molecular\_function [name] protein anchor [def] "Interacting selectively and non-covalently with both a protein or protein complex and a membrane, in order to maintain the localization of the protein at a specific location on the membrane." [GOC]

3368 Pathogen[ Q2Q067] interacts with 1 human partners:{P35579}

3369 Pathogen[ P03346] interacts with 1 human partners:{P35579}

3370 Pathogen[ Q85601] interacts with 1 human partners:{P35579}

3371 Pathogen[ P14079] interacts with 1 human partners:{P35579}

3372 Pathogen[ P03383] interacts with 1 human partners:{P35579}

3373 Pathogen[ P03410] interacts with 1 human partners:{P35579}

3374 Pathogen[ P14075] interacts with 1 human partners:{P35579}

3375 Pathogen[ P0C206] interacts with 1 human partners:{P35579}

3376 Pathogen[ P03363] interacts with 1 human partners:{P35579}

3377 [Cluster 603]GO:0052692+F molecular\_function [name] raffinose alpha-galactosidase activity [def] "Catalysis of the reaction

3378 Pathogen[ P14079] interacts with 1 human partners:{P06280}

3379 [Cluster 604]GO:0019208+F molecular\_function [name] phosphatase regulator activity [def] "Modulates the activity of a phosphatase, an enzyme which catalyzes of the removal of a phosphate group from a substrate molecule." [GOC]

3380 Pathogen[ Q2Q067] interacts with 2 human partners:{O14974;O60315}

3381 Pathogen[ P0C214] interacts with 2 human partners:{O14974;O60315}

3382 Pathogen[ P03346] interacts with 3 human partners:{O60315;Q86WG5;O14974}

3383 Pathogen[ Q85601] interacts with 2 human partners:{O60315;O14974}

3384 Pathogen[ P14079] interacts with 3 human partners:{O14974;O60315;Q86WG5}

3385 Pathogen[ P03410] interacts with 2 human partners:{O14974;Q86WG5}

3386 Pathogen[ P0C206] interacts with 2 human partners:{O14974;O60315}

3387 Pathogen[ P03363] interacts with 3 human partners:{O60315;Q86WG5;O14974}

3388 [Cluster 605]GO:0008020+F molecular\_function [name] G-protein coupled photoreceptor activity [def] "Combining with incidental electromagnetic radiation, particularly visible light, and transmitting the signal across the membrane by activating an associated G-protein\_ promotes the exchange of GDP for GTP on the alpha subunit of a heterotrimeric G-protein complex." [GOC]

3389 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9GZR5}

3390 Pathogen[ P0C214] interacts with 1 human partners:{Q9GZR5}

3391 Pathogen[ Q85601] interacts with 1 human partners:{Q9GZR5}

3392 Pathogen[ P14079] interacts with 1 human partners:{Q9GZR5}

3393 Pathogen[ P03383] interacts with 1 human partners:{Q9GZR5}

3394 Pathogen[ P03410] interacts with 1 human partners:{Q9GZR5}

3395 Pathogen[ P14075] interacts with 1 human partners:{Q9GZR5}

3396 Pathogen[ P0C206] interacts with 1 human partners:{Q9GZR5}

3397 [Cluster 606]GO:0032558+F molecular\_function [name] adenylyl deoxyribonucleotide binding [def] "Interacting selectively and non-covalently with an adenylyl deoxyribonucleotide, any compound consisting of adenosine esterified with (ortho)phosphate or an oligophosphate at any hydroxyl group on the deoxyribose moiety." [GOC

3398 Pathogen[ P14079] interacts with 1 human partners:{Q9NSU2}

3399 Pathogen[ P03410] interacts with 1 human partners:{Q9NSU2}

3400 Pathogen[ P0C206] interacts with 1 human partners:{Q9NSU2}

3401 [Cluster 607]GO:0004531+F molecular\_function [name] deoxyribonuclease II activity [def] "Catalysis of the endonucleolytic cleavage of DNA to 3'-phosphodinucleotide and 3'-phosphooligonucleotide end products." [EC

3402 Pathogen[ P14079] interacts with 2 human partners:{O00115;Q8WZ79}

3403 Pathogen[ P03410] interacts with 1 human partners:{O00115}

3404 [Cluster 608]GO:0019870+F molecular\_function [name] potassium channel inhibitor activity [def] "Stops, prevents, or reduces the activity of a potassium channel." [GOC

3405 Pathogen[ P03346] interacts with 1 human partners:{Q99633}

3406 Pathogen[ P14079] interacts with 1 human partners:{Q99633}

3407 Pathogen[ P03410] interacts with 1 human partners:{Q99633}

3408 Pathogen[ P03363] interacts with 1 human partners:{Q99633}

3409 [Cluster 609]GO:0008146+F molecular\_function [name] sulfotransferase activity [def] "Catalysis of the transfer of a sulfate group from 3'-phosphoadenosine 5'-phosphosulfate to the hydroxyl group of an acceptor, producing the sulfated derivative and 3'-phosphoadenosine 5'-phosphate." [EC

3410 Pathogen[ Q2Q067] interacts with 1 human partners:{O00204}

3411 Pathogen[ P0C214] interacts with 2 human partners:{O00204;Q06520}

3412 Pathogen[ P03346] interacts with 2 human partners:{O00204;Q06520}

3413 Pathogen[ Q85601] interacts with 1 human partners:{O00204}

3414 Pathogen[ P03410] interacts with 1 human partners:{O00204}

3415 Pathogen[ P0C206] interacts with 1 human partners:{O00204}

3416 Pathogen[ P03363] interacts with 2 human partners:{O00204;Q06520}

3417 [Cluster 610]GO:0005267+F molecular\_function [name] potassium channel activity [def] "Catalysis of facilitated diffusion of a potassium ion (by an energy-independent process) involving passage through a transmembrane aqueous pore or channel without evidence for a carrier-mediated mechanism." [GOC

3418 Pathogen[ P14079] interacts with 1 human partners:{Q9H6F2}

3419 Pathogen[ P03410] interacts with 2 human partners:{P59646;Q9H6F2}

3420 [Cluster 611]GO:0016531+F molecular\_function [name] copper chaperone activity [def] "Assists in the delivery of copper ions to target proteins or compartments." [PMID

3421 Pathogen[ P0C214] interacts with 1 human partners:{Q14061}

3422 Pathogen[ Q85601] interacts with 1 human partners:{Q14061}

3423 Pathogen[ P14079] interacts with 2 human partners:{Q14061;O00244}

3424 Pathogen[ P03410] interacts with 1 human partners:{Q14061}

3425 Pathogen[ P14075] interacts with 1 human partners:{Q14061}

3426 Pathogen[ P0C206] interacts with 1 human partners:{Q14061}

3427 [Cluster 612]GO:0004300+F molecular\_function [name] enoyl-CoA hydratase activity [def] "Catalysis of the reaction

3428 Pathogen[ Q2Q067] interacts with 1 human partners:{P30084}

3429 Pathogen[ P0C214] interacts with 2 human partners:{P30084;P40939}

3430 Pathogen[ P03346] interacts with 1 human partners:{P30084}

3431 Pathogen[ Q85601] interacts with 1 human partners:{P30084}

3432 Pathogen[ P14079] interacts with 1 human partners:{P30084}

3433 Pathogen[ P03410] interacts with 1 human partners:{P30084}

3434 Pathogen[ P0C206] interacts with 1 human partners:{P30084}

3435 [Cluster 613]GO:0004336+F molecular\_function [name] galactosylceramidase activity [def] "Catalysis of the reaction

3436 Pathogen[ P14079] interacts with 1 human partners:{P54803}

3437 Pathogen[ P03410] interacts with 1 human partners:{P54803}

3438 [Cluster 614]GO:0004733+F molecular\_function [name] pyridoxamine-phosphate oxidase activity [def] "Catalysis of the reaction

3439 Pathogen[ P14079] interacts with 1 human partners:{Q9NVS9}

3440 Pathogen[ P03410] interacts with 1 human partners:{Q9NVS9}

3441 Pathogen[ P14075] interacts with 1 human partners:{Q9NVS9}

3442 [Cluster 615]GO:0004080+F molecular\_function [name] biotin-[propionyl-CoA-carboxylase (ATP-hydrolyzing)] ligase activity [def] "Catalysis of the reaction

3443 Pathogen[ P0C214] interacts with 1 human partners:{P50747}

3444 [Cluster 616]GO:0004043+F molecular\_function [name] L-aminoacidipate-semialdehyde dehydrogenase activity [def] "Catalysis of the reaction

3445 Pathogen[ Q2Q067] interacts with 1 human partners:{P49419}

3446 Pathogen[ P0C214] interacts with 1 human partners:{P49419}

3447 Pathogen[ P03346] interacts with 1 human partners:{P49419}

3448 Pathogen[ Q85601] interacts with 1 human partners:{P49419}

3449 Pathogen[ P03383] interacts with 1 human partners:{P49419}

3450 Pathogen[ P03410] interacts with 1 human partners:{P49419}

3451 Pathogen[ P14075] interacts with 1 human partners:{P49419}

3452 Pathogen[ P0C206] interacts with 1 human partners:{P49419}

3453 Pathogen[ P03363] interacts with 1 human partners:{P49419}

3454 [Cluster 617]GO:0003883+F molecular\_function [name] CTP synthase activity [def] "Catalysis of the reaction

3455 Pathogen[ P0C214] interacts with 2 human partners:{Q9NRF8;P17812}

3456 Pathogen[ P14079] interacts with 2 human partners:{P17812;Q9NRF8}

3457 Pathogen[ P03410] interacts with 2 human partners:{Q9NRF8;P17812}

3458 [Cluster 618]GO:0001093+F molecular\_function [name] TFIIB-class transcription factor binding [def] "Interacting selectively and non-covalently with a basal RNA polymerase II transcription factor of the TFIIB class, one of the factors involved in formation of the preinitiation complex (PIC) by RNA polymerase II and defined as a basal or general transcription factor." [GOC

3459 Pathogen[ Q2Q067] interacts with 1 human partners:{P15884}

3460 Pathogen[ P0C214] interacts with 1 human partners:{P15884}

3461 Pathogen[ P03346] interacts with 1 human partners:{P15884}

3462 Pathogen[ Q85601] interacts with 1 human partners:{P15884}

3463 Pathogen[ P14079] interacts with 1 human partners:{P15884}

3464 Pathogen[ P03410] interacts with 1 human partners:{P15884}

3465 Pathogen[ P14075] interacts with 1 human partners:{P15884}

3466 Pathogen[ P0C206] interacts with 1 human partners:{P15884}

3467 Pathogen[ P03363] interacts with 1 human partners:{P15884}

3468 [Cluster 619]GO:0003839+F molecular\_function [name] gamma-glutamylcyclotransferase activity [def] "Catalysis of the reaction

3469 Pathogen[ P0C214] interacts with 1 human partners:{O75223}

3470 Pathogen[ P14079] interacts with 2 human partners:{O75223;Q9BVM4}

3471 Pathogen[ P03410] interacts with 2 human partners:{Q9BVM4;O75223}

3472 Pathogen[ P14075] interacts with 1 human partners:{Q9BVM4}

3473 Pathogen[ P0C206] interacts with 1 human partners:{Q9BVM4}

3474 [Cluster 620]GO:0050347+F molecular\_function [name] trans-octaprenyltranstransferase activity [def] "Catalysis of the reaction

3475 Pathogen[ P14079] interacts with 1 human partners:{Q86YH6}

3476 Pathogen[ P03410] interacts with 1 human partners:{Q86YH6}

3477 [Cluster 621]GO:0052656+F molecular\_function [name] L-isoleucine transaminase activity [def] "Catalysis of the reaction

3478 Pathogen[ P0C214] interacts with 2 human partners:{O15382;P54687}

3479 Pathogen[ Q85601] interacts with 1 human partners:{O15382}

3480 Pathogen[ P14079] interacts with 1 human partners:{O15382}

3481 Pathogen[ P03410] interacts with 1 human partners:{O15382}

3482 Pathogen[ P0C206] interacts with 1 human partners:{O15382}

3483 [Cluster 622]GO:0050561+F molecular\_function [name] glutamate-tRNA(Gln) ligase activity [def] "Catalysis of the reaction

3484 Pathogen[ P0C214] interacts with 1 human partners:{Q5JPH6}

3485 Pathogen[ P14079] interacts with 1 human partners:{Q5JPH6}

3486 Pathogen[ P03383] interacts with 1 human partners:{Q5JPH6}

3487 Pathogen[ P03410] interacts with 1 human partners:{Q5JPH6}

3488 Pathogen[ P14075] interacts with 1 human partners:{Q5JPH6}

3489 Pathogen[ P0C206] interacts with 1 human partners:{Q5JPH6}

3490 Pathogen[ P03363] interacts with 1 human partners:{Q5JPH6}

3491 [Cluster 623]GO:0008495+F molecular\_function [name] protoheme IX farnesyltransferase activity [def] "Catalysis of the reaction

3492 Pathogen[ P14079] interacts with 1 human partners:{Q12887}

3493 Pathogen[ P03410] interacts with 1 human partners:{Q12887}

3494 [Cluster 624]GO:0047962+F molecular\_function [name] glycine N-benzoyltransferase activity [def] "Catalysis of the reaction

3495 Pathogen[ P0C214] interacts with 1 human partners:{Q6IB77}

3496 Pathogen[ Q85601] interacts with 1 human partners:{Q6IB77}

3497 Pathogen[ P14079] interacts with 1 human partners:{Q6IB77}

3498 Pathogen[ P03410] interacts with 1 human partners:{Q6IB77}

3499 Pathogen[ P0C206] interacts with 1 human partners:{Q6IB77}

3500 [Cluster 625]GO:0031781+F molecular\_function [name] type 3 melanocortin receptor binding [def] "Interacting selectively and non-covalently with a type 3 melanocortin receptor." [GOC

3501 Pathogen[ P14079] interacts with 2 human partners:{Q96G30;Q8TCY5}

3502 Pathogen[ P03410] interacts with 1 human partners:{Q96G30}

3503 [Cluster 626]GO:0047865+F molecular\_function [name] dimethylglycine dehydrogenase activity [def] "Catalysis of the reaction

3504 Pathogen[ P0C214] interacts with 1 human partners:{Q9UI17}

3505 Pathogen[ P14079] interacts with 1 human partners:{Q9UI17}

3506 Pathogen[ P03410] interacts with 1 human partners:{Q9UI17}

3507 [Cluster 627]GO:0005523+F molecular\_function [name] tropomyosin binding [def] "Interacting selectively and non-covalently with tropomyosin, a protein associated with actin filaments both in cytoplasm and, in association with troponin, in the thin filament of striated muscle." [GOC

3508 Pathogen[ P03346] interacts with 3 human partners:{P06703;P28289;O76041}

3509 Pathogen[ P14079] interacts with 6 human partners:{P13805;P19237;P28289;O76041;Q05682;P06703}

3510 Pathogen[ P03410] interacts with 7 human partners:{O76041;Q05682;P28289;P06703;Q9NYL9;P13805;Q0VAK6}

3511 Pathogen[ P0C206] interacts with 2 human partners:{O76041;P06703}

3512 Pathogen[ P03363] interacts with 5 human partners:{Q9NZR1;P28289;Q0VAK6;Q9NYL9;O76041}

3513 [Cluster 628]GO:0017176+F molecular\_function [name] phosphatidylinositol N-acetylglucosaminyltransferase activity [def] "Catalysis of the reaction Pathogen[ Q2Q067] interacts with 1 human partners:{Q14442} Pathogen[ P03346] interacts with 1 human partners:{Q14442} Pathogen[ P14079] interacts with 3 human partners:{Q14442;P57054;Q9BRB3} Pathogen[ P03410] interacts with 2 human partners:{Q14442;Q9BRB3} Pathogen[ P14075] interacts with 1 human partners:{Q14442} Pathogen[ P0C206] interacts with 1 human partners:{Q14442}

3520 [Cluster 629]GO:0004458+F molecular\_function [name] D-lactate dehydrogenase (cytochrome) activity [def] "Catalysis of the reaction Pathogen[ P0C214] interacts with 1 human partners:{Q86WU2} Pathogen[ P03346] interacts with 1 human partners:{Q86WU2} Pathogen[ P14079] interacts with 1 human partners:{Q86WU2} Pathogen[ P03410] interacts with 1 human partners:{Q86WU2} Pathogen[ P0C206] interacts with 1 human partners:{Q86WU2}

3526 [Cluster 630]GO:0043498+F molecular\_function [name] cell surface binding [def] "Interacting selectively and non-covalently with any component on the surface of a cell." [GOC Pathogen[ Q2Q067] interacts with 1 human partners:{Q12904} Pathogen[ P0C214] interacts with 2 human partners:{Q12904;P10809} Pathogen[ P03346] interacts with 1 human partners:{Q12904} Pathogen[ P14079] interacts with 1 human partners:{Q12904} Pathogen[ P03383] interacts with 1 human partners:{Q12904} Pathogen[ P03410] interacts with 1 human partners:{Q12904} Pathogen[ P14075] interacts with 1 human partners:{Q12904} Pathogen[ P0C206] interacts with 1 human partners:{Q12904}

3535 [Cluster 631]GO:0004477+F molecular\_function [name] methenyltetrahydrofolate cyclohydrolase activity [def] "Catalysis of the reaction Pathogen[ P0C214] interacts with 1 human partners:{P11586}

3537 [Cluster 632]GO:0003993+F molecular\_function [name] acid phosphatase activity [def] "Catalysis of the reaction Pathogen[ P03346] interacts with 1 human partners:{P24666} Pathogen[ P14079] interacts with 1 human partners:{Q9UNW1} Pathogen[ P03410] interacts with 2 human partners:{P24666;Q9UNW1} Pathogen[ P0C206] interacts with 1 human partners:{P24666} Pathogen[ P03363] interacts with 1 human partners:{P24666}

3543 [Cluster 633]GO:0050750+F molecular\_function [name] low-density lipoprotein particle receptor binding [def] "Interacting selectively and non-covalently with a low-density lipoprotein receptor." [GOC Pathogen[ Q2Q067] interacts with 2 human partners:{P31689;P14625} Pathogen[ P0C214] interacts with 2 human partners:{P14625;Q14696} Pathogen[ P03346] interacts with 3 human partners:{Q15036;P14625;P31689} Pathogen[ Q85601] interacts with 3 human partners:{P31689;Q15036;P14625} Pathogen[ P14079] interacts with 5 human partners:{Q15036;Q14696;O43813;P14625;P31689} Pathogen[ P03383] interacts with 3 human partners:{P31689;Q14696;P14625} Pathogen[ P03410] interacts with 4 human partners:{P14625;Q15036;P31689;Q14696} Pathogen[ P14075] interacts with 3 human partners:{P31689;Q14696;P14625} Pathogen[ P0C206] interacts with 4 human partners:{Q15036;Q14696;P31689;P14625}

3553 [Cluster 634]GO:0031772+F molecular\_function [name] type 2 hypocretin receptor binding [def] "Interacting selectively and non-covalently with a type 2 hypocretin receptor." [GOC Pathogen[ P14079] interacts with 1 human partners:{O43612} Pathogen[ P03410] interacts with 1 human partners:{O43612}

3556 [Cluster 635]GO:0019840+F molecular\_function [name] isoprenoid binding [def] "Interacting selectively and non-covalently with any isoprenoid compound, isoprene (2-methylbuta-1,3-diene) or compounds containing or derived from linked isoprene (3-methyl-2-butenylene) residues." [GOC Pathogen[ Q2Q067] interacts with 1 human partners:{P49356} Pathogen[ P0C214] interacts with 1 human partners:{P49356} Pathogen[ P03346] interacts with 1 human partners:{P49356} Pathogen[ Q85601] interacts with 1 human partners:{P49356} Pathogen[ P14079] interacts with 1 human partners:{P49356} Pathogen[ P03410] interacts with 1 human partners:{P49356} Pathogen[ P0C206] interacts with 1 human partners:{P49356}

3564 [Cluster 636]GO:0031406+F molecular\_function [name] carboxylic acid binding [def] "Interacting selectively and non-covalently with a carboxylic acid, any organic acid containing one or more carboxyl (COOH) groups or anions (COO-)." [GOC Pathogen[ Q2Q067] interacts with 2 human partners:{Q9NWT6;P08397}

3566 Pathogen[ P0C214] interacts with 3 human partners:{P35558;P08397;Q9NWT6}

3567 Pathogen[ P03346] interacts with 1 human partners:{Q9NWT6}

3568 Pathogen[ Q85601] interacts with 2 human partners:{Q9NWT6;P08397}

3569 Pathogen[ P14079] interacts with 2 human partners:{Q9NWT6;P08397}

3570 Pathogen[ P03383] interacts with 2 human partners:{Q9NWT6;P08397}

3571 Pathogen[ P03410] interacts with 2 human partners:{P08397;Q9NWT6}

3572 Pathogen[ P14075] interacts with 2 human partners:{P08397;Q9NWT6}

3573 Pathogen[ P0C206] interacts with 2 human partners:{Q9NWT6;P08397}

3574 [Cluster 637]GO:0019144+F molecular\_function [name] ADP-sugar diphosphatase activity  
[def] "Catalysis of the reaction

3575 Pathogen[ P14079] interacts with 1 human partners:{Q9UKK9}

3576 Pathogen[ P03410] interacts with 1 human partners:{Q9UKK9}

3577 [Cluster 638]GO:0004438+F molecular\_function [name] phosphatidylinositol-3-phosphatase  
activity [def] "Catalysis of the reaction

3578 Pathogen[ P0C214] interacts with 1 human partners:{Q13615}

3579 Pathogen[ P0C206] interacts with 1 human partners:{Q13615}

3580 [Cluster 639]GO:0019957+F molecular\_function [name] C-C chemokine binding [def]  
"Interacting selectively and non-covalently with a C-C chemokine\_ C-C chemokines do not  
have an amino acid between the first two cysteines of the characteristic four-cysteine  
motif." [GOC

3581 Pathogen[ Q2Q067] interacts with 1 human partners:{P26651}

3582 Pathogen[ P0C214] interacts with 1 human partners:{P26651}

3583 Pathogen[ P03346] interacts with 1 human partners:{P26651}

3584 Pathogen[ Q85601] interacts with 1 human partners:{P26651}

3585 Pathogen[ P03383] interacts with 1 human partners:{P26651}

3586 Pathogen[ P03410] interacts with 1 human partners:{P26651}

3587 Pathogen[ P14075] interacts with 1 human partners:{P26651}

3588 Pathogen[ P0C206] interacts with 1 human partners:{P26651}

3589 Pathogen[ P03363] interacts with 1 human partners:{P26651}

3590 [Cluster 640]GO:0033883+F molecular\_function [name] pyridoxal phosphatase activity  
[def] "Catalysis of the reaction

3591 Pathogen[ P0C214] interacts with 1 human partners:{Q96GD0}

3592 Pathogen[ P14079] interacts with 1 human partners:{Q96GD0}

3593 Pathogen[ P03410] interacts with 1 human partners:{Q96GD0}

3594 Pathogen[ P0C206] interacts with 1 human partners:{Q96GD0}

3595 [Cluster 641]GO:0015464+F molecular\_function [name] acetylcholine receptor activity  
[def] "Combining with acetylcholine to initiate a change in cell activity." [GOC

3596 Pathogen[ P14079] interacts with 1 human partners:{O76027}

3597 Pathogen[ P03410] interacts with 1 human partners:{O76027}

3598 [Cluster 642]GO:0008160+F molecular\_function [name] protein tyrosine phosphatase  
activator activity [def] "Increases the activity of a phosphatase, an enzyme which  
catalyzes of the removal of a phosphate group from a tyrosyl phenolic group of a  
protein." [GOC

3599 Pathogen[ Q2Q067] interacts with 1 human partners:{Q15257}

3600 Pathogen[ P0C214] interacts with 1 human partners:{Q15257}

3601 Pathogen[ P03346] interacts with 1 human partners:{Q15257}

3602 Pathogen[ Q85601] interacts with 1 human partners:{Q15257}

3603 Pathogen[ P03383] interacts with 1 human partners:{Q15257}

3604 Pathogen[ P03410] interacts with 1 human partners:{Q15257}

3605 Pathogen[ P14075] interacts with 1 human partners:{Q15257}

3606 Pathogen[ P0C206] interacts with 1 human partners:{Q15257}

3607 Pathogen[ P03363] interacts with 1 human partners:{Q15257}

3608 [Cluster 643]GO:0003941+F molecular\_function [name] L-serine ammonia-lyase activity  
[def] "Catalysis of the reaction

3609 Pathogen[ P03346] interacts with 1 human partners:{P20132}

3610 Pathogen[ P14079] interacts with 1 human partners:{P20132}

3611 Pathogen[ P03410] interacts with 1 human partners:{P20132}

3612 Pathogen[ P0C206] interacts with 1 human partners:{P20132}

3613 [Cluster 644]GO:0070181+F molecular\_function [name] SSU rRNA binding [def]  
"Interacting selectively and non-covalently with the small ribosomal subunit RNA (SSU  
rRNA), a constituent of the small ribosomal subunit. In *S. cerevisiae*, this is the 18S  
rRNA." [GOC

3614 Pathogen[ P0C214] interacts with 1 human partners:{Q14011}

3615 Pathogen[ P03346] interacts with 1 human partners:{Q14011}

3616 Pathogen[ P14079] interacts with 1 human partners:{Q14011}

3617 Pathogen[ P03410] interacts with 1 human partners:{Q14011}

3618 Pathogen[ P0C206] interacts with 1 human partners:{Q14011}

3619 Pathogen[ P03363] interacts with 1 human partners:{Q14011}

3620 [Cluster 645]GO:0019784+F molecular\_function [name] NEDD8-specific protease activity  
[def] "Catalysis of the hydrolysis of NEDD8, a small ubiquitin-related modifier, from  
previously neddylated substrates." [GOC

3621 Pathogen[ P03346] interacts with 1 human partners:{Q96FW1}

3622 Pathogen[ P14079] interacts with 1 human partners:{Q96FW1}

3623 Pathogen[ P03410] interacts with 1 human partners:{Q96FW1}

3624 Pathogen[ P14075] interacts with 1 human partners:{Q96FW1}

3625 Pathogen[ P0C206] interacts with 1 human partners:{Q96FW1}



3626 Pathogen[ P03363] interacts with 1 human partners:{Q96FW1}

3627 [Cluster 646]GO:0005176+F molecular\_function [name] ErbB-2 class receptor binding  
[def] "Interacting selectively and non-covalently with the protein-tyrosine kinase  
receptor Neu/ErbB-2/HER2." [GOC

3628 Pathogen[ P03346] interacts with 1 human partners:{Q96RT1}

3629 Pathogen[ Q85601] interacts with 1 human partners:{Q96RT1}

3630 Pathogen[ P14079] interacts with 1 human partners:{Q96RT1}

3631 Pathogen[ P03410] interacts with 1 human partners:{Q96RT1}

3632 Pathogen[ P0C206] interacts with 1 human partners:{Q96RT1}

3633 Pathogen[ P03363] interacts with 1 human partners:{Q96RT1}

3634 [Cluster 647]GO:0044323+F molecular\_function [name] retinoic acid-responsive element  
binding [def] "Interacting selectively with a retinoic acid-responsive element, a  
variable direct repeat of the sequence PuGGTCA spaced by five nucleotides (DR5) found in  
the promoters of retinoic acid-responsive genes, to which retinoic acid receptors bind."  
[GOC

3635 Pathogen[ P03346] interacts with 1 human partners:{O15090}

3636 [Cluster 648]GO:0019210+F molecular\_function [name] kinase inhibitor activity [def]  
"Stops, prevents or reduces the activity of a kinase, an enzyme which catalyzes of the  
transfer of a phosphate group, usually from ATP, to a substrate molecule." [GOC

3637 Pathogen[ P0C214] interacts with 1 human partners:{O15524}

3638 Pathogen[ P03346] interacts with 1 human partners:{O15524}

3639 Pathogen[ P0C206] interacts with 1 human partners:{O15524}

3640 Pathogen[ P03363] interacts with 1 human partners:{O15524}

3641 [Cluster 649]GO:0008521+F molecular\_function [name] acetyl-CoA transporter activity  
[def] "Enables the directed movement of acetyl-CoA into, out of or within a cell, or  
between cells. Acetyl-CoA is a derivative of coenzyme A in which the sulfhydryl group is  
acetylated\_ it is a metabolite derived from several pathways (e.g. glycolysis, fatty acid  
oxidation, amino-acid catabolism) and is further metabolized by the tricarboxylic acid  
cycle. It is a key intermediate in lipid and terpenoid biosynthesis." [GOC

3642 Pathogen[ P14079] interacts with 1 human partners:{O00400}

3643 Pathogen[ P03410] interacts with 1 human partners:{O00400}

3644 [Cluster 650]GO:0004457+F molecular\_function [name] lactate dehydrogenase activity  
[def] "Catalysis of the oxidation of lactate to produce pyruvate." [GOC

3645 Pathogen[ Q2Q067] interacts with 1 human partners:{P07195}

3646 Pathogen[ P0C214] interacts with 1 human partners:{P07195}

3647 Pathogen[ P03346] interacts with 1 human partners:{P07195}

3648 Pathogen[ Q85601] interacts with 1 human partners:{P07195}

3649 Pathogen[ P14079] interacts with 1 human partners:{P07195}

3650 Pathogen[ P03383] interacts with 1 human partners:{P07195}

3651 Pathogen[ P03410] interacts with 1 human partners:{P07195}

3652 Pathogen[ P14075] interacts with 1 human partners:{P07195}

3653 Pathogen[ P0C206] interacts with 1 human partners:{P07195}

3654 [Cluster 651]GO:0070182+F molecular\_function [name] DNA polymerase binding [def]  
"Interacting selectively and non-covalently with a DNA polymerase." [GOC

3655 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96AP0}

3656 Pathogen[ P03346] interacts with 1 human partners:{Q96AP0}

3657 Pathogen[ P14079] interacts with 1 human partners:{Q96AP0}

3658 Pathogen[ P03410] interacts with 1 human partners:{Q96AP0}

3659 Pathogen[ P14075] interacts with 1 human partners:{Q96AP0}

3660 Pathogen[ P0C206] interacts with 1 human partners:{Q96AP0}

3661 Pathogen[ P03363] interacts with 1 human partners:{Q96AP0}

3662 [Cluster 652]GO:0008454+F molecular\_function [name] alpha-1,3-mannosylglycoprotein  
4-beta-N-acetylglucosaminyltransferase activity [def] "Catalysis of the reaction

3663 Pathogen[ P14079] interacts with 1 human partners:{Q9UBM8}

3664 [Cluster 653]GO:0005104+F molecular\_function [name] fibroblast growth factor receptor  
binding [def] "Interacting selectively and non-covalently with the fibroblast growth  
factor receptor (FGFR)." [GOC

3665 Pathogen[ P14079] interacts with 1 human partners:{Q8WU20}

3666 Pathogen[ P03410] interacts with 1 human partners:{Q8WU20}

3667 Pathogen[ P0C206] interacts with 1 human partners:{Q8WU20}

3668 [Cluster 654]GO:0046582+F molecular\_function [name] Rap GTPase activator activity  
[def] "Increases the rate of GTP hydrolysis by a GTPase of the Rap family." [GOC

3669 Pathogen[ P03346] interacts with 1 human partners:{Q96FS4}

3670 Pathogen[ P03363] interacts with 1 human partners:{Q96FS4}

3671 [Cluster 655]GO:0035515+F molecular\_function [name] oxidative RNA demethylase activity  
[def] "Catalysis of the removal of a methyl group from one or more nucleosides within a  
RNA molecule involving the oxidation (i.e. electron loss) of one or more atoms." [PMID

3672 Pathogen[ P14079] interacts with 1 human partners:{Q9C0B1}

3673 Pathogen[ P03410] interacts with 1 human partners:{Q9C0B1}

3674 [Cluster 656]GO:0031177+F molecular\_function [name] phosphopantetheine binding [def]  
"Interacting selectively with phosphopantetheine, the vitamin pantetheine 4'-(dihydrogen  
phosphate)." [CHEBI

3675 Pathogen[ P0C214] interacts with 1 human partners:{O14561}

3676 Pathogen[ P14079] interacts with 1 human partners:{O14561}

3677 Pathogen[ P03410] interacts with 1 human partners:{O14561}

3678 Pathogen[ P14075] interacts with 1 human partners:{O14561}

3679 Pathogen[ P0C206] interacts with 1 human partners:{O14561}

3680 [Cluster 657]GO:0018738+F molecular\_function [name] S-formylglutathione hydrolase activity [def] "Catalysis of the reaction

3681 Pathogen[ P03346] interacts with 1 human partners:{P10768}

3682 Pathogen[ Q85601] interacts with 1 human partners:{P10768}

3683 Pathogen[ P03410] interacts with 1 human partners:{P10768}

3684 Pathogen[ P0C206] interacts with 1 human partners:{P10768}

3685 Pathogen[ P03363] interacts with 1 human partners:{P10768}

3686 [Cluster 658]GO:0004795+F molecular\_function [name] threonine synthase activity [def] "Catalysis of the reaction

3687 Pathogen[ P14079] interacts with 1 human partners:{Q8IYQ7}

3688 [Cluster 659]GO:0030144+F molecular\_function [name] alpha-1,6-mannosylglycoprotein 6-beta-N-acetylglucosaminyltransferase activity [def] "Catalysis of the reaction

3689 Pathogen[ P14079] interacts with 1 human partners:{Q3V5L5}

3690 Pathogen[ P03410] interacts with 1 human partners:{Q3V5L5}

3691 [Cluster 660]GO:0004032+F molecular\_function [name] alditol [def] "Catalysis of the reaction

3692 Pathogen[ Q2Q067] interacts with 1 human partners:{P15121}

3693 Pathogen[ P0C214] interacts with 1 human partners:{P15121}

3694 Pathogen[ P03346] interacts with 1 human partners:{P15121}

3695 Pathogen[ Q85601] interacts with 1 human partners:{P15121}

3696 Pathogen[ P0C206] interacts with 1 human partners:{P15121}

3697 [Cluster 661]GO:0004462+F molecular\_function [name] lactoylglutathione lyase activity [def] "Catalysis of the reaction

3698 Pathogen[ P14079] interacts with 1 human partners:{Q04760}

3699 Pathogen[ P03410] interacts with 1 human partners:{Q04760}

3700 Pathogen[ P0C206] interacts with 1 human partners:{Q04760}

3701 [Cluster 662]GO:0034190+F molecular\_function [name] apolipoprotein receptor binding [def] "Interacting selectively and non-covalently with an apolipoprotein receptor." [GOC

3702 Pathogen[ P14079] interacts with 1 human partners:{O60282}

3703 Pathogen[ P03410] interacts with 1 human partners:{O60282}

3704 Pathogen[ P03363] interacts with 1 human partners:{O60282}

3705 [Cluster 663]GO:0004014+F molecular\_function [name] adenosylmethionine decarboxylase activity [def] "Catalysis of the reaction

3706 Pathogen[ P14079] interacts with 1 human partners:{P17707}

3707 Pathogen[ P03410] interacts with 1 human partners:{P17707}

3708 [Cluster 664]GO:0035252+F molecular\_function [name] UDP-xylosyltransferase activity [def] "Catalysis of the transfer of a xylosyl group from UDP-xylose to an acceptor molecule." [http

3709 Pathogen[ P14079] interacts with 1 human partners:{Q8NBL1}

3710 [Cluster 665]GO:0008456+F molecular\_function [name] alpha-N-acetylgalactosaminidase activity [def] "Catalysis of the hydrolysis of terminal non-reducing N-acetyl-D-galactosamine residues in N-acetyl-alpha-D-galactosaminides." [EC

3711 Pathogen[ P14079] interacts with 1 human partners:{P17050}

3712 [Cluster 666]GO:0004852+F molecular\_function [name] uroporphyrinogen-III synthase activity [def] "Catalysis of the reaction

3713 Pathogen[ Q2Q067] interacts with 2 human partners:{P10746;P08397}

3714 Pathogen[ P0C214] interacts with 2 human partners:{P10746;P08397}

3715 Pathogen[ P03346] interacts with 1 human partners:{P10746}

3716 Pathogen[ Q85601] interacts with 2 human partners:{P10746;P08397}

3717 Pathogen[ P14079] interacts with 2 human partners:{P10746;P08397}

3718 Pathogen[ P03383] interacts with 1 human partners:{P08397}

3719 Pathogen[ P03410] interacts with 2 human partners:{P08397;P10746}

3720 Pathogen[ P14075] interacts with 1 human partners:{P08397}

3721 Pathogen[ P0C206] interacts with 2 human partners:{P10746;P08397}

3722 [Cluster 667]GO:0008187+F molecular\_function [name] poly-pyrimidine tract binding [def] "Interacting selectively and non-covalently with any stretch of pyrimidines (cytosine or uracil) in an RNA molecule." [GOC

3723 Pathogen[ P0C214] interacts with 1 human partners:{P26599}

3724 Pathogen[ P03346] interacts with 1 human partners:{P26599}

3725 Pathogen[ P14079] interacts with 1 human partners:{P26599}

3726 Pathogen[ P03410] interacts with 1 human partners:{P26599}

3727 Pathogen[ P03363] interacts with 1 human partners:{P26599}

3728 [Cluster 668]GO:0042562+F molecular\_function [name] hormone binding [def] "Interacting selectively and non-covalently with any hormone, naturally occurring substances secreted by specialized cells that affect the metabolism or behavior of other cells possessing functional receptors for the hormone." [CHEBI

3729 Pathogen[ Q2Q067] interacts with 1 human partners:{P27797}

3730 Pathogen[ P0C214] interacts with 2 human partners:{P05543;P27797}

3731 Pathogen[ P03346] interacts with 1 human partners:{P27797}

3732 Pathogen[ Q85601] interacts with 1 human partners:{P27797}

3733 Pathogen[ P03383] interacts with 1 human partners:{P27797}

3734 Pathogen[ P03410] interacts with 2 human partners:{P02766;P27797}

3735 Pathogen[ P14075] interacts with 1 human partners:{P27797}

3736 Pathogen[ P0C206] interacts with 1 human partners:{P27797}

3737 Pathogen[ P03363] interacts with 2 human partners:{P27797;P02766}

3738 [Cluster 669]GO:0005174+F molecular\_function [name] CD40 receptor binding [def] "Interacting selectively and non-covalently with CD40, a receptor found on the surface of all B-lymphocytes." [GOC]

3739 Pathogen[ Q2Q067] interacts with 1 human partners:{Q12933}

3740 Pathogen[ P0C214] interacts with 1 human partners:{Q12933}

3741 Pathogen[ Q85601] interacts with 1 human partners:{Q12933}

3742 Pathogen[ P14079] interacts with 1 human partners:{Q12933}

3743 Pathogen[ P03383] interacts with 1 human partners:{Q12933}

3744 Pathogen[ P03410] interacts with 1 human partners:{Q12933}

3745 Pathogen[ P14075] interacts with 1 human partners:{Q12933}

3746 Pathogen[ P0C206] interacts with 1 human partners:{Q12933}

3747 Pathogen[ P03363] interacts with 1 human partners:{Q12933}

3748 [Cluster 670]GO:0005093+F molecular\_function [name] Rab GDP-dissociation inhibitor activity [def] "Prevents the dissociation of GDP from the small GTPase Rab, thereby preventing GTP from binding." [GOC]

3749 Pathogen[ P0C214] interacts with 1 human partners:{P31150}

3750 Pathogen[ P03346] interacts with 1 human partners:{P31150}

3751 Pathogen[ Q85601] interacts with 1 human partners:{P31150}

3752 Pathogen[ P14079] interacts with 1 human partners:{P31150}

3753 Pathogen[ P03410] interacts with 1 human partners:{P31150}

3754 Pathogen[ P0C206] interacts with 1 human partners:{P31150}

3755 Pathogen[ P03363] interacts with 1 human partners:{P31150}

3756 [Cluster 671]GO:0047312+F molecular\_function [name] L-phenylalanine [def] "Catalysis of the reaction

3757 Pathogen[ P0C214] interacts with 1 human partners:{Q16773}

3758 [Cluster 672]GO:0008641+F molecular\_function [name] small protein activating enzyme activity [def] "Catalysis of the activation of small proteins, such as ubiquitin or ubiquitin-like proteins, through the formation of an ATP-dependent high-energy thiolester bond." [GOC]

3759 Pathogen[ P03346] interacts with 1 human partners:{A0AVT1}

3760 Pathogen[ P03363] interacts with 3 human partners:{P22314;Q9UBE0;A0AVT1}

3761 [Cluster 673]GO:0070404+F molecular\_function [name] NADH binding [def] "Interacting selectively and non-covalently with the reduced form, NADH, of nicotinamide adenine dinucleotide, a coenzyme involved in many redox and biosynthetic reactions." [GOC]

3762 Pathogen[ P0C214] interacts with 1 human partners:{P09417}

3763 [Cluster 674]GO:0004517+F molecular\_function [name] nitric-oxide synthase activity [def] "Catalysis of the reaction

3764 Pathogen[ Q2Q067] interacts with 1 human partners:{P29474}

3765 Pathogen[ P0C214] interacts with 1 human partners:{P29474}

3766 Pathogen[ P03346] interacts with 1 human partners:{P29474}

3767 Pathogen[ Q85601] interacts with 1 human partners:{P29474}

3768 Pathogen[ P03383] interacts with 1 human partners:{P29474}

3769 Pathogen[ P03410] interacts with 1 human partners:{P29474}

3770 Pathogen[ P14075] interacts with 1 human partners:{P29474}

3771 Pathogen[ P0C206] interacts with 1 human partners:{P29474}

3772 Pathogen[ P03363] interacts with 1 human partners:{P29474}

3773 [Cluster 675]GO:0008269+F molecular\_function [name] JAK pathway signal transduction adaptor activity [def] "The binding activity of a molecule that brings together two molecules of the JAK signal transduction pathway, permitting them to function in a coordinated way." [GOC]

3774 Pathogen[ Q2Q067] interacts with 1 human partners:{O14508}

3775 Pathogen[ P0C214] interacts with 1 human partners:{O14508}

3776 Pathogen[ P03346] interacts with 1 human partners:{O14508}

3777 Pathogen[ Q85601] interacts with 1 human partners:{O14508}

3778 Pathogen[ P14079] interacts with 1 human partners:{O14508}

3779 Pathogen[ P03410] interacts with 1 human partners:{O14508}

3780 Pathogen[ P0C206] interacts with 1 human partners:{O14508}

3781 Pathogen[ P03363] interacts with 1 human partners:{O14508}

3782 [Cluster 676]GO:0008892+F molecular\_function [name] guanine deaminase activity [def] "Catalysis of the reaction

3783 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y2T3}

3784 Pathogen[ P14079] interacts with 1 human partners:{Q9Y2T3}

3785 Pathogen[ P03410] interacts with 1 human partners:{Q9Y2T3}

3786 [Cluster 677]GO:0008253+F molecular\_function [name] 5'-nucleotidase activity [def] "Catalysis of the reaction

3787 Pathogen[ P0C214] interacts with 4 human partners:{Q96P26;P49902;Q8TCD5;Q9H0P0}

3788 Pathogen[ P03346] interacts with 1 human partners:{Q969T7}

3789 Pathogen[ Q85601] interacts with 1 human partners:{Q9H0P0}

3790 Pathogen[ P14079] interacts with 6 human partners:{Q9H0P0;Q96P26;Q8TCD5;Q969T7;P49902;Q9BXI3}

3791 Pathogen[ P03410] interacts with 6 human partners:{Q96P26;Q9BXI3;Q8TCD5;Q9H0P0;P49902;Q969T7}

3792 Pathogen[ P14075] interacts with 1 human partners:{P49902}

3793 Pathogen[ P0C206] interacts with 4 human partners:{P49902;Q8TCD5;Q9H0P0;Q969T7}

3794 Pathogen[ P03363] interacts with 1 human partners:{Q969T7}

3795 [Cluster 678]GO:0016913+F molecular\_function [name] follicle-stimulating hormone

activity [def] "The action characteristic of follicle-stimulating hormone (FSH), a gonadotrophic glycoprotein hormone secreted, in mammals, by the anterior pituitary gland. Upon receptor binding, FSH stimulates growth of Graafian follicles in the ovaries in females, and stimulates the epithelium of the seminiferous tubules to increase spermatogenesis." [ISBN

3796 Pathogen[ P14079] interacts with 1 human partners:{P01225}

3797 [Cluster 679]GO:0035516+F molecular\_function [name] oxidative DNA demethylase activity [def] "Catalysis of the removal of the methyl group from one or more nucleotides within a DNA molecule involving the oxidation (i.e. electron loss) of one or more atoms." [PMID

3798 Pathogen[ P14079] interacts with 1 human partners:{Q9C0B1}

3799 Pathogen[ P03410] interacts with 1 human partners:{Q9C0B1}

3800 [Cluster 680]GO:0045032+F molecular\_function [name] ADP-activated nucleotide receptor activity [def] "Combining with adenosine and transmitting the signal to a heterotrimeric G-protein complex to initiate a change in cell activity, activated by ADP." [GOC

3801 Pathogen[ Q2Q067] interacts with 1 human partners:{P78352}

3802 Pathogen[ P0C214] interacts with 1 human partners:{P78352}

3803 Pathogen[ P03346] interacts with 1 human partners:{P78352}

3804 Pathogen[ Q85601] interacts with 1 human partners:{P78352}

3805 Pathogen[ P03383] interacts with 1 human partners:{P78352}

3806 Pathogen[ P03410] interacts with 1 human partners:{P78352}

3807 Pathogen[ P14075] interacts with 1 human partners:{P78352}

3808 Pathogen[ P0C206] interacts with 1 human partners:{P78352}

3809 Pathogen[ P03363] interacts with 1 human partners:{P78352}

3810 [Cluster 681]GO:0004691+F molecular\_function [name] cAMP-dependent protein kinase activity [def] "Catalysis of the reaction

3811 Pathogen[ P03346] interacts with 1 human partners:{Q12802}

3812 Pathogen[ P14079] interacts with 1 human partners:{Q12802}

3813 [Cluster 682]GO:0000155+F molecular\_function [name] two-component sensor activity [def] "Catalysis of the phosphorylation of a histidine residue in response to detection of an extracellular signal such as a chemical ligand or change in environment, to initiate a change in cell state or activity. The two-component sensor is a histidine kinase that autophosphorylates a histidine residue in its active site. The phosphate is then transferred to an aspartate residue in a downstream response regulator, to trigger a response." [GOC

3814 Pathogen[ P0C214] interacts with 1 human partners:{Q9NXG0}

3815 Pathogen[ P03346] interacts with 1 human partners:{Q9NXG0}

3816 Pathogen[ Q85601] interacts with 1 human partners:{Q9NXG0}

3817 Pathogen[ P14079] interacts with 1 human partners:{Q9NXG0}

3818 Pathogen[ P03410] interacts with 1 human partners:{Q9NXG0}

3819 Pathogen[ P0C206] interacts with 1 human partners:{Q9NXG0}

3820 Pathogen[ P03363] interacts with 1 human partners:{Q9NXG0}

3821 [Cluster 683]GO:0046923+F molecular\_function [name] ER retention sequence binding [def] "Interacting selectively and non-covalently with an endoplasmic reticulum (ER) retention sequence, a specific peptide sequence that ensures a protein is retained within the ER." [GOC

3822 Pathogen[ P14079] interacts with 3 human partners:{P33947;P24390;O43731}

3823 Pathogen[ P03410] interacts with 3 human partners:{P33947;P24390;O43731}

3824 Pathogen[ P0C206] interacts with 3 human partners:{P33947;P24390;O43731}

3825 [Cluster 684]GO:0004140+F molecular\_function [name] dephospho-CoA kinase activity [def] "Catalysis of the reaction

3826 Pathogen[ P0C214] interacts with 1 human partners:{Q13057}

3827 Pathogen[ P14079] interacts with 1 human partners:{Q13057}

3828 Pathogen[ P03410] interacts with 1 human partners:{Q13057}

3829 Pathogen[ P14075] interacts with 1 human partners:{Q13057}

3830 Pathogen[ P0C206] interacts with 1 human partners:{Q13057}

3831 [Cluster 685]GO:0051393+F molecular\_function [name] alpha-actinin binding [def] "Interacting selectively and non-covalently with alpha-actinin, one of a family of proteins that cross-link F-actin as antiparallel homodimers. Alpha-actinin has a molecular mass of 93-103 KDa\_ at the N-terminus there are two calponin homology domains, at the C-terminus there are two EF-hands. These two domains are connected by the rod domain. This domain is formed by triple-helical spectrin repeats." [PMID

3832 Pathogen[ P14079] interacts with 1 human partners:{Q14118}

3833 Pathogen[ P03410] interacts with 1 human partners:{Q14118}

3834 [Cluster 686]GO:0003878+F molecular\_function [name] ATP citrate synthase activity [def] "Catalysis of the reaction

3835 Pathogen[ P0C214] interacts with 1 human partners:{P53396}

3836 [Cluster 687]GO:0051425+F molecular\_function [name] PTB domain binding [def] "Interacting selectively and non-covalently with a phosphotyrosine-binding (PTB) domain of a protein." [Pfam

3837 Pathogen[ Q2Q067] interacts with 1 human partners:{P37198}

3838 Pathogen[ P0C214] interacts with 1 human partners:{P37198}

3839 Pathogen[ P03346] interacts with 1 human partners:{P37198}

3840 Pathogen[ P14079] interacts with 1 human partners:{P37198}

3841 Pathogen[ P03383] interacts with 1 human partners:{P37198}

3842 Pathogen[ P14075] interacts with 1 human partners:{P37198}

3843 Pathogen[ P03363] interacts with 1 human partners:{P37198}

3844 [Cluster 688]GO:0047045+F molecular\_function [name] testosterone 17-beta-dehydrogenase (NADP+) activity [def] "Catalysis of the reaction

3845 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BPX1}

3846 Pathogen[ P0C214] interacts with 1 human partners:{Q9BPX1}

3847 Pathogen[ P03346] interacts with 1 human partners:{Q9BPX1}

3848 Pathogen[ Q85601] interacts with 1 human partners:{Q9BPX1}

3849 Pathogen[ P03383] interacts with 1 human partners:{Q9BPX1}

3850 Pathogen[ P03410] interacts with 1 human partners:{Q9BPX1}

3851 Pathogen[ P0C206] interacts with 1 human partners:{Q9BPX1}

3852 Pathogen[ P03363] interacts with 1 human partners:{Q9BPX1}

3853 [Cluster 689]GO:0008386+F molecular\_function [name] cholesterol monooxygenase (side-chain-cleaving) activity [def] "Catalysis of the reaction

3854 Pathogen[ P14079] interacts with 1 human partners:{P10109}

3855 Pathogen[ P03410] interacts with 1 human partners:{P10109}

3856 [Cluster 690]GO:0004824+F molecular\_function [name] lysine-tRNA ligase activity [def] "Catalysis of the reaction

3857 Pathogen[ Q2Q067] interacts with 1 human partners:{Q15046}

3858 Pathogen[ P0C214] interacts with 1 human partners:{Q15046}

3859 Pathogen[ Q85601] interacts with 1 human partners:{Q15046}

3860 Pathogen[ P14079] interacts with 1 human partners:{Q15046}

3861 Pathogen[ P03383] interacts with 1 human partners:{Q15046}

3862 Pathogen[ P03410] interacts with 1 human partners:{Q15046}

3863 Pathogen[ P14075] interacts with 1 human partners:{Q15046}

3864 Pathogen[ P0C206] interacts with 1 human partners:{Q15046}

3865 [Cluster 691]GO:0033743+F molecular\_function [name] peptide-methionine (R)-S-oxide reductase activity [def] "Catalysis of the reaction

3866 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y3D2}

3867 Pathogen[ P14079] interacts with 2 human partners:{Q9NZV6;Q9Y3D2}

3868 Pathogen[ P03410] interacts with 1 human partners:{Q9Y3D2}

3869 Pathogen[ P0C206] interacts with 2 human partners:{Q9NZV6;Q9Y3D2}

3870 [Cluster 692]GO:0004750+F molecular\_function [name] ribulose-phosphate 3-epimerase activity [def] "Catalysis of the reaction

3871 Pathogen[ P0C214] interacts with 1 human partners:{Q96AT9}

3872 [Cluster 693]GO:0004582+F molecular\_function [name] dolichyl-phosphate beta-D-mannosyltransferase activity [def] "Catalysis of the reaction

3873 Pathogen[ P14079] interacts with 2 human partners:{O94777;Q9P2X0}

3874 Pathogen[ P03410] interacts with 2 human partners:{O94777;Q9P2X0}

3875 Pathogen[ P14075] interacts with 1 human partners:{O94777}

3876 Pathogen[ P0C206] interacts with 1 human partners:{O94777}

3877 [Cluster 694]GO:0031730+F molecular\_function [name] CCR5 chemokine receptor binding [def] "Interacting selectively and non-covalently with a CCR5 chemokine receptor." [GOC

3878 Pathogen[ Q2Q067] interacts with 1 human partners:{P40763}

3879 Pathogen[ P0C214] interacts with 1 human partners:{P40763}

3880 Pathogen[ P03346] interacts with 1 human partners:{P40763}

3881 Pathogen[ Q85601] interacts with 1 human partners:{P40763}

3882 Pathogen[ P14079] interacts with 1 human partners:{P48681}

3883 Pathogen[ P03410] interacts with 1 human partners:{P40763}

3884 Pathogen[ P0C206] interacts with 1 human partners:{P40763}

3885 [Cluster 695]GO:0004945+F molecular\_function [name] angiotensin type II receptor activity [def] "An angiotensin receptor activity that acts via Gi protein coupling and cGMP (NO) generation, and may also act via additional signaling mechanisms." [GOC

3886 Pathogen[ Q2Q067] interacts with 1 human partners:{Q6RW13}

3887 Pathogen[ P0C214] interacts with 1 human partners:{Q6RW13}

3888 Pathogen[ P03346] interacts with 1 human partners:{Q6RW13}

3889 Pathogen[ Q85601] interacts with 1 human partners:{Q6RW13}

3890 Pathogen[ P14079] interacts with 1 human partners:{Q6RW13}

3891 Pathogen[ P03383] interacts with 1 human partners:{Q6RW13}

3892 Pathogen[ P03410] interacts with 1 human partners:{Q6RW13}

3893 Pathogen[ P14075] interacts with 1 human partners:{Q6RW13}

3894 Pathogen[ P0C206] interacts with 1 human partners:{Q6RW13}

3895 [Cluster 696]GO:0004111+F molecular\_function [name] creatine kinase activity [def] "Catalysis of the reaction

3896 Pathogen[ P0C214] interacts with 1 human partners:{P12277}

3897 [Cluster 697]GO:0005153+F molecular\_function [name] interleukin-8 receptor binding [def] "Interacting selectively and non-covalently with the interleukin-8 receptor." [GOC

3898 Pathogen[ P0C214] interacts with 1 human partners:{P54577}

3899 [Cluster 698]GO:0030345+F molecular\_function [name] structural constituent of tooth enamel [def] "The action of a molecule that contributes to the structural integrity of tooth enamel." [GOC

3900 Pathogen[ P14079] interacts with 1 human partners:{P02808}

3901 Pathogen[ P03410] interacts with 2 human partners:{P02808;Q9NRM1}

3902 Pathogen[ P14075] interacts with 1 human partners:{P02808}

3903 Pathogen[ P0C206] interacts with 1 human partners:{P02808}

3904 Pathogen[ P03363] interacts with 1 human partners:{P02808}

3905 [Cluster 699]GO:0070061+F molecular\_function [name] fructose binding [def]

"Interacting selectively and non-covalently with the D- or L-enantiomer of fructose, the ketohexose arabino-hex-2-ulose." [CHEBI

3906 Pathogen[ Q2Q067] interacts with 1 human partners:{P05062}

3907 Pathogen[ P0C214] interacts with 1 human partners:{P05062}

3908 Pathogen[ P03346] interacts with 1 human partners:{P05062}

3909 Pathogen[ Q85601] interacts with 1 human partners:{P05062}

3910 Pathogen[ P03410] interacts with 1 human partners:{P05062}

3911 Pathogen[ P0C206] interacts with 1 human partners:{P05062}

3912 [Cluster 700]GO:0004473+F molecular\_function [name] malate dehydrogenase (oxaloacetate-decarboxylating) (NADP+) activity [def] "Catalysis of the reaction

3913 Pathogen[ P0C214] interacts with 2 human partners:{P48163;Q16798}

3914 [Cluster 701]GO:0010736+F molecular\_function [name] serum response element binding [def] "Interacting selectively and non-covalently with the serum response element (SRE), a short sequence with dyad symmetry found in the promoters of some of the cellular immediate-early genes, regulated by serum." [GOC

3915 Pathogen[ Q2Q067] interacts with 1 human partners:{P11831}

3916 Pathogen[ P0C214] interacts with 1 human partners:{P11831}

3917 Pathogen[ P03346] interacts with 1 human partners:{P11831}

3918 Pathogen[ Q85601] interacts with 1 human partners:{P11831}

3919 Pathogen[ P03383] interacts with 1 human partners:{P11831}

3920 Pathogen[ P03410] interacts with 1 human partners:{P11831}

3921 Pathogen[ P14075] interacts with 1 human partners:{P11831}

3922 Pathogen[ P0C206] interacts with 1 human partners:{P11831}

3923 Pathogen[ P03363] interacts with 1 human partners:{P11831}

3924 [Cluster 702]GO:0052846+F molecular\_function [name] inositol-1,5-bisdiphosphate-2,3,4,6-tetrakisphosphate 1-diphosphatase activity [def] "Catalysis of the reaction

3925 Pathogen[ P0C214] interacts with 1 human partners:{O95989}

3926 Pathogen[ Q85601] interacts with 1 human partners:{O95989}

3927 Pathogen[ P14079] interacts with 4 human partners:{Q96G61;O95989;Q8NFP7;Q9NZJ9}

3928 Pathogen[ P03383] interacts with 1 human partners:{O95989}

3929 Pathogen[ P03410] interacts with 4 human partners:{Q8NFP7;Q9NZJ9;O95989;Q96G61}

3930 Pathogen[ P14075] interacts with 1 human partners:{O95989}

3931 Pathogen[ P0C206] interacts with 2 human partners:{O95989;Q8NFP7}

3932 [Cluster 703]GO:0032052+F molecular\_function [name] bile acid binding [def] "Interacting selectively and non-covalently with bile acids, any of a group of steroid carboxylic acids occurring in bile." [GOC

3933 Pathogen[ P03346] interacts with 1 human partners:{P07148}

3934 [Cluster 704]GO:0001784+F molecular\_function [name] phosphotyrosine binding [def] "Interacting selectively and non-covalently with a phosphorylated tyrosine residue within a protein." [PMID

3935 Pathogen[ Q2Q067] interacts with 1 human partners:{P22681}

3936 Pathogen[ P0C214] interacts with 2 human partners:{P22681;P62993}

3937 Pathogen[ P03346] interacts with 3 human partners:{P62993;P22681;Q9NSI8}

3938 Pathogen[ Q85601] interacts with 2 human partners:{P22681;P62993}

3939 Pathogen[ P14079] interacts with 1 human partners:{P62993}

3940 Pathogen[ P03410] interacts with 1 human partners:{P62993}

3941 Pathogen[ P0C206] interacts with 2 human partners:{P62993;P22681}

3942 Pathogen[ P03363] interacts with 2 human partners:{P22681;Q9NSI8}

3943 [Cluster 705]GO:0008260+F molecular\_function [name] 3-oxoacid CoA-transferase activity [def] "Catalysis of the reaction

3944 Pathogen[ P03410] interacts with 2 human partners:{Q9BYC2;P55809}

3945 [Cluster 706]GO:0010314+F molecular\_function [name] phosphatidylinositol-5-phosphate binding [def] "Interacting selectively and non-covalently with phosphatidylinositol-5-phosphate, a derivative of phosphatidylinositol in which the inositol ring is phosphorylated at the 5' position." [GOC

3946 Pathogen[ Q2Q067] interacts with 1 human partners:{Q86VW0}

3947 Pathogen[ P0C214] interacts with 1 human partners:{Q86VW0}

3948 Pathogen[ P03346] interacts with 2 human partners:{Q86VW0;Q96S99}

3949 Pathogen[ Q85601] interacts with 2 human partners:{Q96S99;Q86VW0}

3950 Pathogen[ P14079] interacts with 3 human partners:{Q96S99;Q9NS86;Q86VW0}

3951 Pathogen[ P03410] interacts with 3 human partners:{Q9NS86;Q96S99;Q86VW0}

3952 Pathogen[ P0C206] interacts with 3 human partners:{Q86VW0;Q96S99;Q9NS86}

3953 Pathogen[ P03363] interacts with 1 human partners:{Q86VW0}

3954 [Cluster 707]GO:0017128+F molecular\_function [name] phospholipid scramblase activity [def] "Catalysis of the movement of phospholipids from one membrane bilayer leaflet to the other, by an ATP-independent mechanism." [PMID

3955 Pathogen[ Q2Q067] interacts with 1 human partners:{O15162}

3956 Pathogen[ P0C214] interacts with 1 human partners:{O15162}

3957 Pathogen[ P03346] interacts with 1 human partners:{O15162}

3958 Pathogen[ Q85601] interacts with 1 human partners:{O15162}

3959 Pathogen[ P14079] interacts with 2 human partners:{Q9NRQ2;O15162}

3960 Pathogen[ P03383] interacts with 1 human partners:{O15162}

3961 Pathogen[ P03410] interacts with 3 human partners:{Q9NRQ2;Q9NRY6;O15162}

3962 Pathogen[ P14075] interacts with 1 human partners:{O15162}

3963 Pathogen[ P0C206] interacts with 1 human partners:{O15162}

3964 [Cluster 708]GO:0016532+F molecular\_function [name] superoxide dismutase copper chaperone activity [def] "A copper chaperone activity that specifically delivers copper to the Cu-Zn superoxide dismutase." [http

3965 Pathogen[ Q2Q067] interacts with 1 human partners:{014618}

3966 Pathogen[ P0C214] interacts with 1 human partners:{014618}

3967 Pathogen[ P03346] interacts with 1 human partners:{014618}

3968 Pathogen[ Q85601] interacts with 1 human partners:{014618}

3969 Pathogen[ P14079] interacts with 1 human partners:{014618}

3970 Pathogen[ P03410] interacts with 1 human partners:{014618}

3971 Pathogen[ P0C206] interacts with 1 human partners:{014618}

3972 Pathogen[ P03363] interacts with 1 human partners:{014618}

3973 [Cluster 709]GO:0032137+F molecular\_function [name] guanine/thymine mispair binding [def] "Interacting selectively and non-covalently with double-stranded DNA containing a G/T mispair." [GOC

3974 Pathogen[ P0C214] interacts with 2 human partners:{P20585;P40692}

3975 Pathogen[ P03346] interacts with 1 human partners:{P20585}

3976 Pathogen[ Q85601] interacts with 2 human partners:{P20585;P40692}

3977 Pathogen[ P14079] interacts with 3 human partners:{P20585;P40692;P52701}

3978 Pathogen[ P03410] interacts with 3 human partners:{P40692;P20585;P52701}

3979 Pathogen[ P0C206] interacts with 3 human partners:{P52701;P40692;P20585}

3980 Pathogen[ P03363] interacts with 1 human partners:{P20585}

3981 [Cluster 710]GO:0033925+F molecular\_function [name] mannosyl-glycoprotein endo-beta-N-acetylglucosaminidase activity [def] "Catalysis of the endohydrolysis of the N,N'-diacetylchitobiosyl unit in high-mannose glycopeptides and glycoproteins containing the -[Man(GlcNAc)2]Asn-structure. One N-acetyl-D-glucosamine residue remains attached to the protein\_ the rest of the oligosaccharide is released intact." [EC

3982 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8NFI3}

3983 Pathogen[ P0C214] interacts with 1 human partners:{Q8NFI3}

3984 Pathogen[ P03346] interacts with 1 human partners:{Q8NFI3}

3985 Pathogen[ P14079] interacts with 1 human partners:{Q8NFI3}

3986 Pathogen[ P03410] interacts with 1 human partners:{Q8NFI3}

3987 Pathogen[ P14075] interacts with 1 human partners:{Q8NFI3}

3988 Pathogen[ P0C206] interacts with 1 human partners:{Q8NFI3}

3989 Pathogen[ P03363] interacts with 1 human partners:{Q8NFI3}

3990 [Cluster 711]GO:0003908+F molecular\_function [name] methylated-DNA-[protein]-cysteine S-methyltransferase activity [def] "Catalysis of the reaction

3991 Pathogen[ Q2Q067] interacts with 1 human partners:{P16455}

3992 Pathogen[ P0C214] interacts with 1 human partners:{P16455}

3993 Pathogen[ Q85601] interacts with 1 human partners:{P16455}

3994 Pathogen[ P14079] interacts with 1 human partners:{P16455}

3995 Pathogen[ P03410] interacts with 1 human partners:{P16455}

3996 Pathogen[ P0C206] interacts with 1 human partners:{P16455}

3997 [Cluster 712]GO:0004623+F molecular\_function [name] phospholipase A2 activity [def] "Catalysis of the reaction

3998 Pathogen[ P14079] interacts with 2 human partners:{Q8NCQ7;Q9NZ20}

3999 Pathogen[ P03410] interacts with 2 human partners:{Q9NZ20;Q8NCQ7}

4000 [Cluster 713]GO:0030553+F molecular\_function [name] cGMP binding [def] "Interacting selectively and non-covalently with cGMP, the nucleotide cyclic GMP (guanosine 3',5'-cyclophosphate)." [GOC

4001 Pathogen[ P0C214] interacts with 2 human partners:{P18545;Q13956}

4002 Pathogen[ P14079] interacts with 2 human partners:{P18545;Q13956}

4003 Pathogen[ P03410] interacts with 2 human partners:{Q13956;P18545}

4004 Pathogen[ P0C206] interacts with 2 human partners:{P18545;Q13956}

4005 [Cluster 714]GO:0034545+F molecular\_function [name] fumarylpyruvate hydrolase activity [def] "Catalysis of the reaction

4006 Pathogen[ P0C214] interacts with 1 human partners:{Q6P587}

4007 Pathogen[ P14079] interacts with 1 human partners:{Q6P587}

4008 Pathogen[ P03410] interacts with 1 human partners:{Q6P587}

4009 Pathogen[ P0C206] interacts with 1 human partners:{Q6P587}

4010 [Cluster 715]GO:0047372+F molecular\_function [name] acylglycerol lipase activity [def] "Catalysis of the reaction

4011 Pathogen[ P14079] interacts with 1 human partners:{000519}

4012 Pathogen[ P03410] interacts with 1 human partners:{000519}

4013 [Cluster 716]GO:0004661+F molecular\_function [name] protein geranylgeranyltransferase activity [def] "Catalysis of the covalent addition of a geranylgeranyl (20-carbon isoprenoid) group via thioether linkages to a cysteine residue at or near the C terminus of a protein." [PMID

4014 Pathogen[ Q2Q067] interacts with 1 human partners:{P49354}

4015 Pathogen[ P0C214] interacts with 1 human partners:{P49354}

4016 Pathogen[ P03346] interacts with 1 human partners:{P49354}

4017 Pathogen[ Q85601] interacts with 1 human partners:{P49354}

4018 Pathogen[ P14079] interacts with 1 human partners:{P49354}

4019 Pathogen[ P03410] interacts with 1 human partners:{P49354}

4020 Pathogen[ P0C206] interacts with 1 human partners:{P49354}

4021 Pathogen[ P03363] interacts with 1 human partners:{P49354}

4022 [Cluster 717]GO:0005539+F molecular\_function [name] glycosaminoglycan binding [def]

"Interacting selectively and non-covalently with any glycan (polysaccharide) containing a substantial proportion of aminomonosaccharide residues." [GOC  
4023 Pathogen[ P0C214] interacts with 1 human partners:{P07093}  
4024 Pathogen[ Q85601] interacts with 1 human partners:{P07093}  
4025 [Cluster 718]GO:0008794+F molecular\_function [name] arsenate reductase (glutaredoxin) activity [def] "Catalysis of the reaction  
4026 Pathogen[ P03346] interacts with 1 human partners:{Q9NS18}  
4027 Pathogen[ P0C206] interacts with 1 human partners:{Q9NS18}  
4028 [Cluster 719]GO:0004792+F molecular\_function [name] thiosulfate sulfurtransferase activity [def] "Catalysis of the reaction  
4029 Pathogen[ P0C214] interacts with 2 human partners:{O95396;Q16762}  
4030 Pathogen[ P14079] interacts with 1 human partners:{Q16762}  
4031 Pathogen[ P03410] interacts with 1 human partners:{Q16762}  
4032 Pathogen[ P0C206] interacts with 2 human partners:{Q16762;O95396}  
4033 [Cluster 720]GO:0009374+F molecular\_function [name] biotin binding [def] "Interacting selectively and non-covalently with biotin (cis-tetrahydro-2-oxothieno(3,4-d)imidazoline-4-valeric acid), the (+) enantiomer of which is very widely distributed in cells and serves as a carrier in a number of enzymatic beta-carboxylation reactions." [GOC  
4034 Pathogen[ P0C214] interacts with 1 human partners:{P50747}  
4035 [Cluster 721]GO:0051537+F molecular\_function [name] 2 iron, 2 sulfur cluster binding [def] "Interacting selectively and non-covalently with a 2 iron, 2 sulfur (2Fe-2S) cluster\_ this cluster consists of two iron atoms, with two inorganic sulfur atoms found between the irons and acting as bridging ligands." [GOC  
4036 Pathogen[ Q2Q067] interacts with 1 human partners:{P21912}  
4037 Pathogen[ P0C214] interacts with 4 human partners:{P28331;P22830;P21912;Q96NN9}  
4038 Pathogen[ P03346] interacts with 2 human partners:{Q9NS18;P21912}  
4039 Pathogen[ Q85601] interacts with 1 human partners:{P21912}  
4040 Pathogen[ P14079] interacts with 6 human partners:{Q6P4F2;P10109;Q9NZ45;Q9Y471;P22830;P21912}  
4041 Pathogen[ P03410] interacts with 6 human partners:{Q6P4F2;P22830;P21912;Q9Y471;P10109;Q9NZ45}  
4042 Pathogen[ P0C206] interacts with 3 human partners:{Q9NS18;P22830;P21912}  
4043 [Cluster 722]GO:0001159+F molecular\_function [name] core promoter proximal region DNA binding [def] "Interacting selectively and non-covalently with a region of DNA that is in cis with and relatively close to the core promoter. The transcribed region might be described as a gene, cistron, or operon." [GOC  
4044 Pathogen[ P03346] interacts with 1 human partners:{O95096}  
4045 [Cluster 723]GO:0004047+F molecular\_function [name] aminomethyltransferase activity [def] "Catalysis of the reaction  
4046 Pathogen[ P0C214] interacts with 5 human partners:{P48728;Q8NCN5;Q9UI17;Q5T440;Q9UL12}  
4047 Pathogen[ P03346] interacts with 3 human partners:{Q8NCN5;Q5T440;P48728}  
4048 Pathogen[ P14079] interacts with 6 human partners:{P23434;P48728;Q9UL12;Q9UI17;Q8NCN5;Q5T440}  
4049 Pathogen[ P03410] interacts with 6 human partners:{Q9UI17;Q5T440;Q9UL12;P23434;P48728;Q8NCN5}  
4050 Pathogen[ P14075] interacts with 3 human partners:{Q5T440;Q8NCN5;P48728}  
4051 Pathogen[ P0C206] interacts with 4 human partners:{P23434;Q5T440;Q8NCN5;P48728}  
4052 Pathogen[ P03363] interacts with 1 human partners:{P48728}  
4053 [Cluster 724]GO:0030171+F molecular\_function [name] voltage-gated proton channel activity [def] "Catalysis of the transmembrane transfer of a proton by a voltage-gated channel. A voltage-gated channel is a channel whose open state is dependent on the voltage across the membrane in which it is embedded." [ISBN  
4054 Pathogen[ P03410] interacts with 1 human partners:{Q96D96}  
4055 [Cluster 725]GO:0004033+F molecular\_function [name] aldo-keto reductase (NADP) activity [def] "Catalysis of the reaction  
4056 Pathogen[ Q2Q067] interacts with 1 human partners:{P15121}  
4057 Pathogen[ P0C214] interacts with 2 human partners:{P35270;P15121}  
4058 Pathogen[ P03346] interacts with 1 human partners:{P15121}  
4059 Pathogen[ Q85601] interacts with 1 human partners:{P15121}  
4060 Pathogen[ P0C206] interacts with 1 human partners:{P15121}  
4061 [Cluster 726]GO:0005143+F molecular\_function [name] interleukin-12 receptor binding [def] "Interacting selectively and non-covalently with the interleukin-12 receptor." [GOC  
4062 Pathogen[ P14079] interacts with 1 human partners:{P29459}  
4063 Pathogen[ P03410] interacts with 1 human partners:{P29459}  
4064 [Cluster 727]GO:0004077+F molecular\_function [name] biotin-[acetyl-CoA-carboxylase] ligase activity [def] "Catalysis of the reaction  
4065 Pathogen[ P0C214] interacts with 1 human partners:{P50747}  
4066 [Cluster 728]GO:0005173+F molecular\_function [name] stem cell factor receptor binding [def] "Interacting selectively and non-covalently with the stem cell factor receptor (SCFR), a type III transmembrane kinase receptor." [GOC  
4067 Pathogen[ Q2Q067] interacts with 1 human partners:{Q7Z699}  
4068 Pathogen[ P0C214] interacts with 1 human partners:{Q7Z699}  
4069 Pathogen[ P03346] interacts with 1 human partners:{Q7Z699}  
4070 Pathogen[ Q85601] interacts with 1 human partners:{Q7Z699}



4071 Pathogen[ P14079] interacts with 1 human partners:{Q7Z699}

4072 Pathogen[ P03410] interacts with 1 human partners:{Q7Z699}

4073 Pathogen[ P0C206] interacts with 1 human partners:{Q7Z699}

4074 Pathogen[ P03363] interacts with 1 human partners:{Q7Z699}

4075 [Cluster 729]GO:0033862+F molecular\_function [name] UMP kinase activity [def]  
"Catalysis of the reaction

4076 Pathogen[ P0C214] interacts with 1 human partners:{Q5EBM0}

4077 Pathogen[ P14079] interacts with 1 human partners:{Q5EBM0}

4078 Pathogen[ P03383] interacts with 1 human partners:{Q5EBM0}

4079 Pathogen[ P03410] interacts with 1 human partners:{Q5EBM0}

4080 Pathogen[ P14075] interacts with 1 human partners:{Q5EBM0}

4081 Pathogen[ P0C206] interacts with 1 human partners:{Q5EBM0}

4082 [Cluster 730]GO:0052843+F molecular\_function [name]  
inositol-1-diphosphate-2,3,4,5,6-pentakisphosphate diphosphatase activity [def]  
"Catalysis of the reaction

4083 Pathogen[ P0C214] interacts with 1 human partners:{O95989}

4084 Pathogen[ Q85601] interacts with 1 human partners:{O95989}

4085 Pathogen[ P14079] interacts with 4 human partners:{Q96G61;O95989;Q8NFP7;Q9NZJ9}

4086 Pathogen[ P03383] interacts with 1 human partners:{O95989}

4087 Pathogen[ P03410] interacts with 4 human partners:{Q8NFP7;Q9NZJ9;O95989;Q96G61}

4088 Pathogen[ P14075] interacts with 1 human partners:{O95989}

4089 Pathogen[ P0C206] interacts with 2 human partners:{O95989;Q8NFP7}

4090 [Cluster 731]GO:0005171+F molecular\_function [name] hepatocyte growth factor receptor binding [def] "Interacting selectively and non-covalently with the hepatocyte growth factor receptor." [GOC

4091 Pathogen[ Q2Q067] interacts with 1 human partners:{Q92990}

4092 Pathogen[ P03346] interacts with 1 human partners:{Q92990}

4093 Pathogen[ P14079] interacts with 1 human partners:{Q92990}

4094 Pathogen[ P03383] interacts with 1 human partners:{Q92990}

4095 Pathogen[ P03410] interacts with 1 human partners:{Q92990}

4096 Pathogen[ P14075] interacts with 1 human partners:{Q92990}

4097 Pathogen[ P0C206] interacts with 1 human partners:{Q92990}

4098 Pathogen[ P03363] interacts with 1 human partners:{Q92990}

4099 [Cluster 732]GO:0050897+F molecular\_function [name] cobalt ion binding [def]  
"Interacting selectively and non-covalently with a cobalt (Co) ion." [GOC

4100 Pathogen[ Q2Q067] interacts with 1 human partners:{O15392}

4101 Pathogen[ P0C214] interacts with 1 human partners:{O15392}

4102 Pathogen[ P03346] interacts with 1 human partners:{O15392}

4103 Pathogen[ Q85601] interacts with 1 human partners:{O15392}

4104 Pathogen[ P14079] interacts with 1 human partners:{O15392}

4105 Pathogen[ P03410] interacts with 1 human partners:{O15392}

4106 Pathogen[ P0C206] interacts with 1 human partners:{O15392}

4107 [Cluster 733]GO:0016034+F molecular\_function [name] maleylacetoacetate isomerase activity [def] "Catalysis of the reaction

4108 Pathogen[ Q2Q067] interacts with 1 human partners:{O43708}

4109 Pathogen[ P0C214] interacts with 1 human partners:{O43708}

4110 Pathogen[ P03346] interacts with 1 human partners:{O43708}

4111 Pathogen[ Q85601] interacts with 1 human partners:{O43708}

4112 Pathogen[ P14079] interacts with 1 human partners:{O43708}

4113 Pathogen[ P03410] interacts with 1 human partners:{O43708}

4114 Pathogen[ P0C206] interacts with 1 human partners:{O43708}

4115 Pathogen[ P03363] interacts with 1 human partners:{O43708}

4116 [Cluster 734]GO:0070740+F molecular\_function [name] tubulin-glutamic acid ligase activity [def] "Catalysis of the posttranslational transfer of one or more glutamate residues to the gamma-carboxyl group(s) of one or more specific glutamate residues on a tubulin molecule." [GOC

4117 Pathogen[ P14079] interacts with 1 human partners:{O95922}

4118 Pathogen[ P03410] interacts with 1 human partners:{O95922}

4119 Pathogen[ P0C206] interacts with 1 human partners:{O95922}

4120 Pathogen[ P03363] interacts with 1 human partners:{O95922}

4121 [Cluster 735]GO:0003994+F molecular\_function [name] aconitate hydratase activity [def]  
"Catalysis of the reactions

4122 Pathogen[ Q2Q067] interacts with 1 human partners:{P21399}

4123 Pathogen[ P0C214] interacts with 2 human partners:{Q99798;P21399}

4124 Pathogen[ P03346] interacts with 1 human partners:{P21399}

4125 Pathogen[ Q85601] interacts with 1 human partners:{P21399}

4126 Pathogen[ P14079] interacts with 1 human partners:{P21399}

4127 Pathogen[ P03410] interacts with 1 human partners:{P21399}

4128 Pathogen[ P0C206] interacts with 2 human partners:{Q99798;P21399}

4129 [Cluster 736]GO:0031849+F molecular\_function [name] olfactory receptor binding [def]  
"Interacting selectively and non-covalently with an olfactory receptor." [GOC

4130 Pathogen[ P0C214] interacts with 1 human partners:{Q9H902}

4131 Pathogen[ P03346] interacts with 1 human partners:{Q9H902}

4132 Pathogen[ Q85601] interacts with 1 human partners:{Q9H902}

4133 Pathogen[ P14079] interacts with 1 human partners:{Q9H902}

4134 Pathogen[ P03410] interacts with 1 human partners:{Q9H902}

4135 Pathogen[ P0C206] interacts with 1 human partners:{Q9H902}

4136 Pathogen[ P03363] interacts with 1 human partners:{Q9H902}

4137 [Cluster 737]GO:0016768+F molecular\_function [name] spermine synthase activity [def] "Catalysis of the reaction

4138 Pathogen[ P0C214] interacts with 1 human partners:{P52788}

4139 Pathogen[ P03410] interacts with 1 human partners:{P52788}

4140 [Cluster 738]GO:0001087+F molecular\_function [name] TFIIB-class binding transcription factor activity [def] "Interacting selectively and non-covalently with a basal RNA polymerase II transcription factor of the TFIIB class in order to modulate transcription. The transcription factor may or may not also interact selectively with DNA as well." [GOC

4141 Pathogen[ Q2Q067] interacts with 1 human partners:{P15884}

4142 Pathogen[ P0C214] interacts with 1 human partners:{P15884}

4143 Pathogen[ P03346] interacts with 1 human partners:{P15884}

4144 Pathogen[ Q85601] interacts with 1 human partners:{P15884}

4145 Pathogen[ P14079] interacts with 1 human partners:{P15884}

4146 Pathogen[ P03410] interacts with 1 human partners:{P15884}

4147 Pathogen[ P14075] interacts with 1 human partners:{P15884}

4148 Pathogen[ P0C206] interacts with 1 human partners:{P15884}

4149 Pathogen[ P03363] interacts with 1 human partners:{P15884}

4150 [Cluster 739]GO:0070626+F molecular\_function [name] (S)-2-(5-amino-1-(5-phospho-D-ribosyl)imidazole-4-carboxamido)succinate AMP-lyase (fumarate-forming) activity [def] "Catalysis of the reaction

4151 Pathogen[ P0C214] interacts with 1 human partners:{P30566}

4152 Pathogen[ P03410] interacts with 1 human partners:{P30566}

4153 [Cluster 740]GO:0048039+F molecular\_function [name] ubiquinone binding [def] "Interacting selectively and non-covalently with ubiquinone, a quinone derivative with a tail of isoprene units." [GOC

4154 Pathogen[ Q2Q067] interacts with 1 human partners:{P21912}

4155 Pathogen[ P0C214] interacts with 2 human partners:{O14521;P21912}

4156 Pathogen[ P03346] interacts with 1 human partners:{P21912}

4157 Pathogen[ Q85601] interacts with 1 human partners:{P21912}

4158 Pathogen[ P14079] interacts with 2 human partners:{O14521;P21912}

4159 Pathogen[ P03410] interacts with 2 human partners:{P21912;O14521}

4160 Pathogen[ P0C206] interacts with 2 human partners:{O14521;P21912}

4161 [Cluster 741]GO:0043566+F molecular\_function [name] structure-specific DNA binding [def] "Interacting selectively and non-covalently with DNA of a specific structure or configuration e.g. triplex DNA binding or bent DNA binding." [GOC

4162 Pathogen[ Q2Q067] interacts with 3 human partners:{Q92889;P11388;Q9UQ84}

4163 Pathogen[ P0C214] interacts with 4 human partners:{Q92889;P11388;Q9UQ84;P40692}

4164 Pathogen[ P03346] interacts with 4 human partners:{P11388;P07992;Q92889;Q9UQ84}

4165 Pathogen[ Q85601] interacts with 4 human partners:{Q9UQ84;Q92889;P11388;P40692}

4166 Pathogen[ P14079] interacts with 5 human partners:{P11388;P40692;Q92889;Q9UQ84;P07992}

4167 Pathogen[ P03410] interacts with 5 human partners:{P40692;P07992;Q92889;P11388;Q9UQ84}

4168 Pathogen[ P0C206] interacts with 5 human partners:{Q9UQ84;P40692;P07992;Q92889;P11388}

4169 Pathogen[ P03363] interacts with 1 human partners:{Q92889}

4170 [Cluster 742]GO:0015149+F molecular\_function [name] hexose transmembrane transporter activity [def] "Catalysis of the transfer of a hexose sugar, a monosaccharide with 6 carbon atoms, from one side of a membrane to the other." [GOC

4171 Pathogen[ P0C214] interacts with 1 human partners:{P11168}

4172 Pathogen[ Q85601] interacts with 1 human partners:{P11168}

4173 Pathogen[ P03383] interacts with 1 human partners:{P11168}

4174 Pathogen[ P03410] interacts with 1 human partners:{P11168}

4175 Pathogen[ P14075] interacts with 1 human partners:{P11168}

4176 Pathogen[ P0C206] interacts with 1 human partners:{P11168}

4177 [Cluster 743]GO:0004078+F molecular\_function [name] biotin-[methylcrotonoyl-CoA-carboxylase] ligase activity [def] "Catalysis of the reaction

4178 Pathogen[ P0C214] interacts with 1 human partners:{P50747}

4179 [Cluster 744]GO:0008700+F molecular\_function [name] 4-hydroxy-2-oxoglutarate aldolase activity [def] "Catalysis of the reaction

4180 Pathogen[ P0C214] interacts with 1 human partners:{Q86XE5}

4181 Pathogen[ P14079] interacts with 1 human partners:{Q86XE5}

4182 Pathogen[ P03410] interacts with 1 human partners:{Q86XE5}

4183 Pathogen[ P14075] interacts with 1 human partners:{Q86XE5}

4184 Pathogen[ P0C206] interacts with 1 human partners:{Q86XE5}

4185 [Cluster 745]GO:0004609+F molecular\_function [name] phosphatidylserine decarboxylase activity [def] "Catalysis of the reaction

4186 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UG56}

4187 Pathogen[ P0C214] interacts with 1 human partners:{Q9UG56}

4188 Pathogen[ P03346] interacts with 1 human partners:{Q9UG56}

4189 Pathogen[ Q85601] interacts with 1 human partners:{Q9UG56}

4190 Pathogen[ P14079] interacts with 1 human partners:{Q9UG56}

4191 Pathogen[ P03410] interacts with 1 human partners:{Q9UG56}

4192 Pathogen[ P14075] interacts with 1 human partners:{Q9UG56}

4193 Pathogen[ P0C206] interacts with 1 human partners:{Q9UG56}

4194 [Cluster 746]GO:0004372+F molecular\_function [name] glycine hydroxymethyltransferase activity [def] "Catalysis of the reaction

4195 Pathogen[ Q2Q067] interacts with 1 human partners:{P34896}

4196 Pathogen[ P0C214] interacts with 2 human partners:{P34897;P34896}

4197 Pathogen[ Q85601] interacts with 1 human partners:{P34896}

4198 Pathogen[ P14079] interacts with 2 human partners:{P34897;P34896}

4199 Pathogen[ P03383] interacts with 1 human partners:{P34896}

4200 Pathogen[ P03410] interacts with 2 human partners:{P34897;P34896}

4201 Pathogen[ P14075] interacts with 1 human partners:{P34896}

4202 Pathogen[ P0C206] interacts with 2 human partners:{P34897;P34896}

4203 [Cluster 747]GO:0003873+F molecular\_function [name] 6-phosphofructo-2-kinase activity [def] "Catalysis of the reaction

4204 Pathogen[ P0C214] interacts with 2 human partners:{O60825;P16118}

4205 Pathogen[ Q85601] interacts with 2 human partners:{O60825;P16118}

4206 Pathogen[ P03410] interacts with 1 human partners:{P16118}

4207 Pathogen[ P14075] interacts with 1 human partners:{P16118}

4208 Pathogen[ P0C206] interacts with 2 human partners:{O60825;P16118}

4209 [Cluster 748]GO:2001070+F molecular\_function [name] starch binding [def] "Interacting selectively and non-covalently with starch." [GOC

4210 Pathogen[ P0C214] interacts with 2 human partners:{Q9NPB8;O95278}

4211 Pathogen[ P03346] interacts with 1 human partners:{O95278}

4212 Pathogen[ Q85601] interacts with 1 human partners:{O95278}

4213 Pathogen[ P14079] interacts with 1 human partners:{Q9NPB8}

4214 Pathogen[ P03410] interacts with 1 human partners:{Q9NPB8}

4215 Pathogen[ P0C206] interacts with 2 human partners:{O95278;Q9NPB8}

4216 [Cluster 749]GO:0000406+F molecular\_function [name] double-strand/single-strand DNA junction binding [def] "Interacting selectively and non-covalently with a region of DNA that contains double-stranded DNA flanked by a region of single-stranded DNA." [GOC

4217 Pathogen[ P0C214] interacts with 1 human partners:{P20585}

4218 Pathogen[ P03346] interacts with 1 human partners:{P20585}

4219 Pathogen[ Q85601] interacts with 1 human partners:{P20585}

4220 Pathogen[ P14079] interacts with 1 human partners:{P20585}

4221 Pathogen[ P03410] interacts with 1 human partners:{P20585}

4222 Pathogen[ P0C206] interacts with 1 human partners:{P20585}

4223 Pathogen[ P03363] interacts with 1 human partners:{P20585}

4224 [Cluster 750]GO:0003923+F molecular\_function [name] GPI-anchor transamidase activity [def] "Catalysis of the formation of the linkage between a protein and a glycosylphosphatidylinositol anchor. The reaction probably occurs by subjecting a peptide bond to nucleophilic attack by the amino group of ethanolamine-GPI, transferring the protein from a signal peptide to the GPI anchor." [ISBN

4225 Pathogen[ P14079] interacts with 4 human partners:{O43292;Q96S52;Q969N2;Q9H490}

4226 Pathogen[ P03410] interacts with 3 human partners:{Q96S52;Q969N2;Q9H490}

4227 [Cluster 751]GO:0008762+F molecular\_function [name] UDP-N-acetylmuramate dehydrogenase activity [def] "Catalysis of the reaction

4228 Pathogen[ P0C214] interacts with 1 human partners:{Q86WU2}

4229 Pathogen[ P03346] interacts with 1 human partners:{Q86WU2}

4230 Pathogen[ P14079] interacts with 1 human partners:{Q86WU2}

4231 Pathogen[ P03410] interacts with 1 human partners:{Q86WU2}

4232 Pathogen[ P0C206] interacts with 1 human partners:{Q86WU2}

4233 [Cluster 752]GO:0016668+F molecular\_function [name] oxidoreductase activity, acting on a sulfur group of donors, NAD or NADP as acceptor [def] "Catalysis of an oxidation-reduction (redox) reaction in which a sulfur-containing group acts as a hydrogen or electron donor and reduces NAD or NADP." [GOC

4234 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NNW7}

4235 Pathogen[ P0C214] interacts with 3 human partners:{Q9NNW7;Q16881;P09622}

4236 Pathogen[ P03346] interacts with 1 human partners:{Q9NNW7}

4237 Pathogen[ P14079] interacts with 1 human partners:{Q9NNW7}

4238 Pathogen[ P03410] interacts with 1 human partners:{Q9NNW7}

4239 Pathogen[ P0C206] interacts with 1 human partners:{Q9NNW7}

4240 Pathogen[ P03363] interacts with 1 human partners:{Q9NNW7}

4241 [Cluster 753]GO:0008308+F molecular\_function [name] voltage-gated anion channel activity [def] "Catalysis of the transmembrane transfer of an anion by a voltage-gated channel. An anion is a negatively charged ion. A voltage-gated channel is a channel whose open state is dependent on the voltage across the membrane in which it is embedded." [GOC

4242 Pathogen[ P14079] interacts with 1 human partners:{B7ZAQ6}

4243 Pathogen[ P03410] interacts with 1 human partners:{B7ZAQ6}

4244 Pathogen[ P0C206] interacts with 1 human partners:{B7ZAQ6}

4245 [Cluster 754]GO:0050544+F molecular\_function [name] arachidonic acid binding [def] "Interacting selectively and non-covalently with arachidonic acid, a straight chain fatty acid with 20 carbon atoms and four double bonds per molecule. Arachidonic acid is the all-Z-(5,8,11,14)-isomer." [GOC

4246 Pathogen[ P14079] interacts with 1 human partners:{P20292}

4247 Pathogen[ P03410] interacts with 1 human partners:{P20292}

4248 Pathogen[ P0C206] interacts with 1 human partners:{P20292}

4249 [Cluster 755]GO:0043176+F molecular\_function [name] amine binding [def] "Interacting selectively and non-covalently with any organic compound that is weakly basic in character and contains an amino or a substituted amino group." [GOC  
4250 Pathogen[ Q2Q067] interacts with 1 human partners:{P08397}  
4251 Pathogen[ P0C214] interacts with 1 human partners:{P08397}  
4252 Pathogen[ Q85601] interacts with 1 human partners:{P08397}  
4253 Pathogen[ P14079] interacts with 1 human partners:{P08397}  
4254 Pathogen[ P03383] interacts with 1 human partners:{P08397}  
4255 Pathogen[ P03410] interacts with 1 human partners:{P08397}  
4256 Pathogen[ P14075] interacts with 1 human partners:{P08397}  
4257 Pathogen[ P0C206] interacts with 1 human partners:{P08397}  
4258 [Cluster 756]GO:0005126+F molecular\_function [name] cytokine receptor binding [def] "Interacting selectively with a cytokine receptor." [GOC  
4259 Pathogen[ P14079] interacts with 1 human partners:{P13232}  
4260 Pathogen[ P03410] interacts with 1 human partners:{P13232}  
4261 [Cluster 757]GO:0031783+F molecular\_function [name] type 5 melanocortin receptor binding [def] "Interacting selectively and non-covalently with a type 5 melanocortin receptor." [GOC  
4262 Pathogen[ P14079] interacts with 2 human partners:{Q96G30;Q8TCY5}  
4263 Pathogen[ P03410] interacts with 1 human partners:{Q96G30}  
4264 [Cluster 758]GO:0003870+F molecular\_function [name] 5-aminolevulinate synthase activity [def] "Catalysis of the reaction  
4265 Pathogen[ Q2Q067] interacts with 2 human partners:{P22557;P13196}  
4266 Pathogen[ P0C214] interacts with 2 human partners:{P22557;P13196}  
4267 Pathogen[ P03346] interacts with 2 human partners:{P22557;P13196}  
4268 Pathogen[ Q85601] interacts with 1 human partners:{P13196}  
4269 Pathogen[ P14079] interacts with 2 human partners:{P13196;P22557}  
4270 Pathogen[ P03410] interacts with 2 human partners:{P22557;P13196}  
4271 Pathogen[ P0C206] interacts with 2 human partners:{P22557;P13196}  
4272 Pathogen[ P03363] interacts with 1 human partners:{P13196}  
4273 [Cluster 759]GO:0004654+F molecular\_function [name] polyribonucleotide nucleotidyltransferase activity [def] "Catalysis of the reaction  
4274 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8TCS8}  
4275 Pathogen[ P0C214] interacts with 1 human partners:{Q8TCS8}  
4276 Pathogen[ P03346] interacts with 1 human partners:{Q8TCS8}  
4277 Pathogen[ Q85601] interacts with 1 human partners:{Q8TCS8}  
4278 Pathogen[ P14079] interacts with 1 human partners:{Q8TCS8}  
4279 Pathogen[ P03383] interacts with 1 human partners:{Q8TCS8}  
4280 Pathogen[ P03410] interacts with 1 human partners:{Q8TCS8}  
4281 Pathogen[ P14075] interacts with 1 human partners:{Q8TCS8}  
4282 Pathogen[ P0C206] interacts with 1 human partners:{Q8TCS8}  
4283 [Cluster 760]GO:0016820+F molecular\_function [name] hydrolase activity, acting on acid anhydrides, catalyzing transmembrane movement of substances [def] "Catalysis of the hydrolysis of an acid anhydride to directly drive the transport of a substance across a membrane." [GOC  
4284 Pathogen[ P0C214] interacts with 1 human partners:{Q9UI12}  
4285 Pathogen[ P03346] interacts with 1 human partners:{P21283}  
4286 Pathogen[ P14079] interacts with 4 human partners:{P25705;Q96LB4;Q9UI12;O95670}  
4287 Pathogen[ P03410] interacts with 5 human partners:{P25705;Q9UI12;Q96LB4;O95670;O75348}  
4288 Pathogen[ P0C206] interacts with 1 human partners:{Q9UI12}  
4289 [Cluster 761]GO:0005148+F molecular\_function [name] prolactin receptor binding [def] "Interacting selectively and non-covalently with the prolactin receptor." [GOC  
4290 Pathogen[ Q2Q067] interacts with 1 human partners:{O14508}  
4291 Pathogen[ P0C214] interacts with 1 human partners:{O14508}  
4292 Pathogen[ P03346] interacts with 1 human partners:{O14508}  
4293 Pathogen[ Q85601] interacts with 1 human partners:{O14508}  
4294 Pathogen[ P14079] interacts with 1 human partners:{O14508}  
4295 Pathogen[ P03410] interacts with 1 human partners:{O14508}  
4296 Pathogen[ P0C206] interacts with 1 human partners:{O14508}  
4297 Pathogen[ P03363] interacts with 1 human partners:{O14508}  
4298 [Cluster 762]GO:0052796+F molecular\_function [name] exo-alpha-(2->8)-sialidase activity [def] "Catalysis of the hydrolysis of alpha-(2->8)-glycosidic linkages of terminal sialic residues in substrates." [EC  
4299 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8WWR8}  
4300 Pathogen[ P0C214] interacts with 2 human partners:{Q8WWR8;Q9Y3R4}  
4301 Pathogen[ P03346] interacts with 1 human partners:{Q8WWR8}  
4302 Pathogen[ P14079] interacts with 2 human partners:{Q8WWR8;Q9Y3R4}  
4303 Pathogen[ P03383] interacts with 1 human partners:{Q8WWR8}  
4304 Pathogen[ P03410] interacts with 2 human partners:{Q9Y3R4;Q8WWR8}  
4305 Pathogen[ P14075] interacts with 1 human partners:{Q8WWR8}  
4306 Pathogen[ P0C206] interacts with 2 human partners:{Q9Y3R4;Q8WWR8}  
4307 [Cluster 763]GO:0003826+F molecular\_function [name] alpha-ketoacid dehydrogenase activity [def] "Catalysis of an oxidation-reduction (redox) reaction involving an alpha-ketoacid." [GOC  
4308 Pathogen[ Q2Q067] interacts with 1 human partners:{P21953}

4309 Pathogen[ P0C214] interacts with 2 human partners:{P12694;P21953}

4310 Pathogen[ Q85601] interacts with 1 human partners:{P21953}

4311 Pathogen[ P14079] interacts with 1 human partners:{P21953}

4312 Pathogen[ P03410] interacts with 2 human partners:{P12694;P21953}

4313 Pathogen[ P0C206] interacts with 1 human partners:{P21953}

4314 [Cluster 764]GO:0005052+F molecular\_function [name] peroxisome matrix targeting signal-1 binding [def] "Interacting selectively and non-covalently with a type 1 peroxisome targeting signal, a tripeptide with the consensus sequence (S/A/C)-(K/R/H)-L." [GOC]

4315 Pathogen[ P03346] interacts with 1 human partners:{P50542}

4316 Pathogen[ P14079] interacts with 1 human partners:{P50542}

4317 Pathogen[ P03410] interacts with 1 human partners:{P50542}

4318 Pathogen[ P0C206] interacts with 1 human partners:{P50542}

4319 [Cluster 765]GO:0016655+F molecular\_function [name] oxidoreductase activity, acting on NADH or NADPH, quinone or similar compound as acceptor [def] "Catalysis of an oxidation-reduction (redox) reaction in which NADH or NADPH acts as a hydrogen or electron donor and reduces a quinone or a similar acceptor molecule." [GOC]

4320 Pathogen[ Q2Q067] interacts with 1 human partners:{075251}

4321 Pathogen[ P0C214] interacts with 1 human partners:{075251}

4322 Pathogen[ P03346] interacts with 1 human partners:{075251}

4323 Pathogen[ P14079] interacts with 1 human partners:{075251}

4324 Pathogen[ P03383] interacts with 1 human partners:{075251}

4325 Pathogen[ P03410] interacts with 1 human partners:{075251}

4326 Pathogen[ P14075] interacts with 1 human partners:{075251}

4327 Pathogen[ P0C206] interacts with 1 human partners:{075251}

4328 [Cluster 766]GO:0032448+F molecular\_function [name] DNA hairpin binding [def] "Interacting selectively and non-covalently with DNA containing a hairpin. A hairpin structure forms when a DNA strand folds back on itself and intrachain base pairing occurs between inverted repeat sequences." [GOC]

4329 Pathogen[ P03346] interacts with 1 human partners:{P51843}

4330 [Cluster 767]GO:0004595+F molecular\_function [name] pantetheine-phosphate adenylyltransferase activity [def] "Catalysis of the reaction

4331 Pathogen[ P0C214] interacts with 1 human partners:{Q13057}

4332 Pathogen[ P14079] interacts with 1 human partners:{Q13057}

4333 Pathogen[ P03410] interacts with 1 human partners:{Q13057}

4334 Pathogen[ P14075] interacts with 1 human partners:{Q13057}

4335 Pathogen[ P0C206] interacts with 1 human partners:{Q13057}

4336 [Cluster 768]GO:0008108+F molecular\_function [name] UDP-glucose [def] "Catalysis of the reaction

4337 Pathogen[ Q2Q067] interacts with 1 human partners:{P07902}

4338 Pathogen[ P0C214] interacts with 1 human partners:{P07902}

4339 Pathogen[ Q85601] interacts with 1 human partners:{P07902}

4340 Pathogen[ P14079] interacts with 1 human partners:{P07902}

4341 Pathogen[ P03383] interacts with 1 human partners:{P07902}

4342 Pathogen[ P03410] interacts with 1 human partners:{P07902}

4343 Pathogen[ P14075] interacts with 1 human partners:{P07902}

4344 Pathogen[ P0C206] interacts with 1 human partners:{P07902}

4345 [Cluster 769]GO:0052841+F molecular\_function [name] inositol bisdiphosphate tetrakisphosphate diphosphatase activity [def] "Catalysis of the reaction

4346 Pathogen[ P0C214] interacts with 1 human partners:{Q95989}

4347 Pathogen[ Q85601] interacts with 1 human partners:{Q95989}

4348 Pathogen[ P14079] interacts with 4 human partners:{Q96G61;Q95989;Q8NFP7;Q9NZJ9}

4349 Pathogen[ P03383] interacts with 1 human partners:{Q95989}

4350 Pathogen[ P03410] interacts with 4 human partners:{Q8NFP7;Q9NZJ9;Q95989;Q96G61}

4351 Pathogen[ P14075] interacts with 1 human partners:{Q95989}

4352 Pathogen[ P0C206] interacts with 2 human partners:{Q95989;Q8NFP7}

4353 [Cluster 770]GO:0046906+F molecular\_function [name] tetrapyrrole binding [def] "Interacting selectively and non-covalently with a tetrapyrrole, a compound containing four pyrrole nuclei variously substituted and linked to each other through carbons at the alpha position." [CHEBI]

4354 Pathogen[ P0C214] interacts with 1 human partners:{P22830}

4355 Pathogen[ P14079] interacts with 1 human partners:{P22830}

4356 Pathogen[ P03410] interacts with 1 human partners:{P22830}

4357 Pathogen[ P0C206] interacts with 1 human partners:{P22830}

4358 [Cluster 771]GO:0047734+F molecular\_function [name] CDP-glycerol diphosphatase activity [def] "Catalysis of the reaction

4359 Pathogen[ P0C214] interacts with 1 human partners:{Q3LIE5}

4360 Pathogen[ Q85601] interacts with 1 human partners:{Q3LIE5}

4361 Pathogen[ P14079] interacts with 1 human partners:{Q3LIE5}

4362 Pathogen[ P03410] interacts with 1 human partners:{Q3LIE5}

4363 Pathogen[ P0C206] interacts with 1 human partners:{Q3LIE5}

4364 [Cluster 772]GO:0008193+F molecular\_function [name] tRNA guanylyltransferase activity [def] "Catalysis of the posttranscriptional addition of a guanyl residue to the 5' end of a tRNA molecule\_ observed for His tRNAs." [PMID]

4365 Pathogen[ P14079] interacts with 1 human partners:{Q9NWX6}

4366 Pathogen[ P03410] interacts with 1 human partners:{Q9NWX6}

4367 [Cluster 773]GO:0004831+F molecular\_function [name] tyrosine-tRNA ligase activity  
[def] "Catalysis of the reaction

4368 Pathogen[ P0C214] interacts with 2 human partners:{P54577;Q9Y2Z4}

4369 Pathogen[ P14079] interacts with 1 human partners:{Q9Y2Z4}

4370 Pathogen[ P03383] interacts with 1 human partners:{Q9Y2Z4}

4371 Pathogen[ P03410] interacts with 1 human partners:{Q9Y2Z4}

4372 Pathogen[ P14075] interacts with 1 human partners:{Q9Y2Z4}

4373 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y2Z4}

4374 Pathogen[ P03363] interacts with 1 human partners:{Q9Y2Z4}

4375 [Cluster 774]GO:0004707+F molecular\_function [name] MAP kinase activity [def]  
"Catalysis of the reaction

4376 Pathogen[ Q2Q067] interacts with 2 human partners:{P45984;Q15759}

4377 Pathogen[ P0C214] interacts with 2 human partners:{Q15759;P45984}

4378 Pathogen[ P03346] interacts with 2 human partners:{P45984;Q15759}

4379 Pathogen[ Q85601] interacts with 2 human partners:{Q15759;P45984}

4380 Pathogen[ P14079] interacts with 5 human  
partners:{P53779;P45984;P45983;Q15759;Q13164}

4381 Pathogen[ P03383] interacts with 2 human partners:{Q15759;P45984}

4382 Pathogen[ P03410] interacts with 2 human partners:{P45984;P53779}

4383 Pathogen[ P14075] interacts with 2 human partners:{Q15759;P45984}

4384 Pathogen[ P0C206] interacts with 2 human partners:{P45984;Q15759}

4385 [Cluster 775]GO:0050840+F molecular\_function [name] extracellular matrix binding [def]  
"Interacting selectively and non-covalently with a component of the extracellular  
matrix." [GOC

4386 Pathogen[ P14079] interacts with 2 human partners:{P15502;Q13316}

4387 Pathogen[ P03383] interacts with 1 human partners:{P15502}

4388 Pathogen[ P03410] interacts with 2 human partners:{P15502;Q13316}

4389 Pathogen[ P14075] interacts with 1 human partners:{P15502}

4390 Pathogen[ P0C206] interacts with 2 human partners:{P15502;Q13316}

4391 [Cluster 776]GO:0004411+F molecular\_function [name] homogentisate 1,2-dioxygenase  
activity [def] "Catalysis of the reaction

4392 Pathogen[ P14079] interacts with 1 human partners:{Q93099}

4393 Pathogen[ P03410] interacts with 1 human partners:{Q93099}

4394 [Cluster 777]GO:0034979+F molecular\_function [name] NAD-dependent protein deacetylase  
activity [def] "Catalysis of the removal of one or more acetyl groups from a protein,  
requiring NAD." [GOC

4395 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9Y6E7}

4396 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y6E7}

4397 Pathogen[ P03346] interacts with 1 human partners:{Q9Y6E7}

4398 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y6E7}

4399 Pathogen[ P03383] interacts with 1 human partners:{Q9Y6E7}

4400 Pathogen[ P14075] interacts with 1 human partners:{Q9Y6E7}

4401 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y6E7}

4402 Pathogen[ P03363] interacts with 1 human partners:{Q9Y6E7}

4403 [Cluster 778]GO:0004326+F molecular\_function [name] tetrahydrofolylpolyglutamate  
synthase activity [def] "Catalysis of the reaction

4404 Pathogen[ P0C214] interacts with 1 human partners:{Q05932}

4405 Pathogen[ P14079] interacts with 1 human partners:{Q05932}

4406 Pathogen[ P03410] interacts with 1 human partners:{Q05932}

4407 Pathogen[ P0C206] interacts with 1 human partners:{Q05932}

4408 [Cluster 779]GO:0004037+F molecular\_function [name] allantoicase activity [def]  
"Catalysis of the reaction

4409 Pathogen[ P14079] interacts with 1 human partners:{Q8N6M5}

4410 Pathogen[ P03410] interacts with 1 human partners:{Q8N6M5}

4411 [Cluster 780]GO:0030172+F molecular\_function [name] troponin C binding [def]  
"Interacting selectively and non-covalently with troponin C, the calcium-binding subunit  
of the troponin complex." [GOC

4412 Pathogen[ P0C214] interacts with 1 human partners:{P19429}

4413 Pathogen[ P14079] interacts with 1 human partners:{P19429}

4414 Pathogen[ P03410] interacts with 1 human partners:{P19429}

4415 Pathogen[ P0C206] interacts with 1 human partners:{P19429}

4416 Pathogen[ P03363] interacts with 1 human partners:{P19429}

4417 [Cluster 781]GO:0071558+F molecular\_function [name] histone demethylase activity  
(H3-K27 specific) [def] "Catalysis of the removal of a methyl group from lysine at  
position 27 of the histone H3 protein." [GOC

4418 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UPP1}

4419 Pathogen[ P0C214] interacts with 1 human partners:{Q9UPP1}

4420 Pathogen[ P03346] interacts with 1 human partners:{Q9UPP1}

4421 Pathogen[ Q85601] interacts with 1 human partners:{Q9UPP1}

4422 Pathogen[ P14079] interacts with 1 human partners:{Q9UPP1}

4423 Pathogen[ P03383] interacts with 1 human partners:{Q9UPP1}

4424 Pathogen[ P03410] interacts with 1 human partners:{Q9UPP1}

4425 Pathogen[ P14075] interacts with 1 human partners:{Q9UPP1}

4426 Pathogen[ P0C206] interacts with 1 human partners:{Q9UPP1}

4427 [Cluster 782]GO:0030409+F molecular\_function [name] glutamate formimidoyltransferase  
activity [def] "Catalysis of the reaction

4428 Pathogen[ P14079] interacts with 1 human partners:{O95954}

4429 Pathogen[ P03410] interacts with 1 human partners:{O95954}

4430 Pathogen[ P0C206] interacts with 1 human partners:{O95954}

4431 [Cluster 783]GO:0034584+F molecular\_function [name] piRNA binding [def] "Interacting selectively and non-covalently with a piRNA, a Piwi-associated RNA, a 24- to 30-nucleotide RNA derived from repeat or complex DNA sequence elements and processed by a Dicer-independent mechanism." [GOC

4432 Pathogen[ P03346] interacts with 1 human partners:{Q96J94}

4433 Pathogen[ P03363] interacts with 2 human partners:{Q7Z3Z4;Q96J94}

4434 [Cluster 784]GO:0004123+F molecular\_function [name] cystathionine gamma-lyase activity [def] "Catalysis of the reaction

4435 Pathogen[ Q2Q067] interacts with 1 human partners:{P32929}

4436 Pathogen[ P0C214] interacts with 1 human partners:{P32929}

4437 Pathogen[ P03346] interacts with 1 human partners:{P32929}

4438 Pathogen[ Q85601] interacts with 1 human partners:{P32929}

4439 Pathogen[ P14079] interacts with 1 human partners:{P32929}

4440 Pathogen[ P03410] interacts with 1 human partners:{P32929}

4441 Pathogen[ P0C206] interacts with 1 human partners:{P32929}

4442 [Cluster 785]GO:0004343+F molecular\_function [name] glucosamine 6-phosphate N-acetyltransferase activity [def] "Catalysis of the reaction

4443 Pathogen[ P0C214] interacts with 1 human partners:{Q96EK6}

4444 Pathogen[ Q85601] interacts with 1 human partners:{Q96EK6}

4445 Pathogen[ P14079] interacts with 1 human partners:{Q96EK6}

4446 Pathogen[ P03410] interacts with 1 human partners:{Q96EK6}

4447 Pathogen[ P14075] interacts with 1 human partners:{Q96EK6}

4448 Pathogen[ P0C206] interacts with 1 human partners:{Q96EK6}

4449 [Cluster 786]GO:0003840+F molecular\_function [name] gamma-glutamyltransferase activity [def] "Catalysis of the reaction

4450 Pathogen[ P14079] interacts with 4 human partners:{Q4G0N0;Q9BX51;B5MD39;Q14390}

4451 Pathogen[ P03410] interacts with 2 human partners:{Q4G0N0;B5MD39}

4452 [Cluster 787]GO:0004347+F molecular\_function [name] glucose-6-phosphate isomerase activity [def] "Catalysis of the reaction

4453 Pathogen[ Q2Q067] interacts with 1 human partners:{P06744}

4454 Pathogen[ P03346] interacts with 1 human partners:{P06744}

4455 Pathogen[ Q85601] interacts with 1 human partners:{P06744}

4456 Pathogen[ P14079] interacts with 1 human partners:{P06744}

4457 Pathogen[ P03383] interacts with 1 human partners:{P06744}

4458 Pathogen[ P03410] interacts with 1 human partners:{P06744}

4459 Pathogen[ P14075] interacts with 1 human partners:{P06744}

4460 Pathogen[ P0C206] interacts with 1 human partners:{P06744}

4461 Pathogen[ P03363] interacts with 1 human partners:{P06744}

4462 [Cluster 788]GO:0003875+F molecular\_function [name] ADP-ribosylarginine hydrolase activity [def] "Catalysis of the reaction

4463 Pathogen[ P0C214] interacts with 1 human partners:{P54922}

4464 Pathogen[ P14079] interacts with 2 human partners:{P54922;Q8NDY3}

4465 Pathogen[ P03383] interacts with 1 human partners:{P54922}

4466 Pathogen[ P03410] interacts with 2 human partners:{Q8NDY3;P54922}

4467 Pathogen[ P14075] interacts with 1 human partners:{P54922}

4468 Pathogen[ P0C206] interacts with 1 human partners:{P54922}

4469 [Cluster 789]GO:0004494+F molecular\_function [name] methylmalonyl-CoA mutase activity [def] "Catalysis of the reaction

4470 Pathogen[ Q2Q067] interacts with 1 human partners:{P22033}

4471 Pathogen[ P0C214] interacts with 1 human partners:{P22033}

4472 Pathogen[ Q85601] interacts with 1 human partners:{P22033}

4473 Pathogen[ P14079] interacts with 1 human partners:{P22033}

4474 Pathogen[ P03383] interacts with 1 human partners:{P22033}

4475 Pathogen[ P03410] interacts with 1 human partners:{P22033}

4476 Pathogen[ P14075] interacts with 1 human partners:{P22033}

4477 Pathogen[ P0C206] interacts with 1 human partners:{P22033}

4478 [Cluster 790]GO:0070735+F molecular\_function [name] protein-glycine ligase activity [def] "Catalysis of the posttranslational transfer of one or more glycine residues to a specific glutamate residue on a target protein." [GOC

4479 Pathogen[ P14079] interacts with 3 human partners:{Q9Y4R7;A6PVC2;Q6ZVT0}

4480 Pathogen[ P03410] interacts with 3 human partners:{Q9Y4R7;Q6ZVT0;A6PVC2}

4481 Pathogen[ P0C206] interacts with 1 human partners:{Q6ZVT0}

4482 [Cluster 791]GO:0048408+F molecular\_function [name] epidermal growth factor binding [def] "Interacting selectively and non-covalently with epidermal growth factor." [GOC

4483 Pathogen[ P14079] interacts with 1 human partners:{P60468}

4484 Pathogen[ P03410] interacts with 1 human partners:{P60468}

4485 [Cluster 792]GO:0004029+F molecular\_function [name] aldehyde dehydrogenase (NAD) activity [def] "Catalysis of the reaction

4486 Pathogen[ Q2Q067] interacts with 1 human partners:{P49419}

4487 Pathogen[ P0C214] interacts with 1 human partners:{P49419}

4488 Pathogen[ P03346] interacts with 1 human partners:{P49419}

4489 Pathogen[ Q85601] interacts with 1 human partners:{P49419}

4490 Pathogen[ P03383] interacts with 1 human partners:{P49419}

4491 Pathogen[ P03410] interacts with 1 human partners:{P49419}

4492 Pathogen[ P14075] interacts with 1 human partners:{P49419}

4493 Pathogen[ P0C206] interacts with 1 human partners:{P49419}

4494 Pathogen[ P03363] interacts with 1 human partners:{P49419}

4495 [Cluster 793]GO:0008417+F molecular\_function [name] fucosyltransferase activity [def] "Catalysis of the transfer of a fucosyl group to an acceptor molecule, typically another carbohydrate or a lipid." [GOC

4496 Pathogen[ P14079] interacts with 1 human partners:{Q9H488}

4497 Pathogen[ P03410] interacts with 1 human partners:{Q9H488}

4498 [Cluster 794]GO:0051525+F molecular\_function [name] NFAT protein binding [def] "Interacting selectively and non-covalently with NFAT (nuclear factor of activated T cells) proteins, a family of transcription factors. NFAT proteins have crucial roles in the development and function of the immune system." [PMID

4499 Pathogen[ Q2Q067] interacts with 1 human partners:{P17947}

4500 Pathogen[ P0C214] interacts with 1 human partners:{P17947}

4501 Pathogen[ P03346] interacts with 1 human partners:{P17947}

4502 Pathogen[ Q85601] interacts with 1 human partners:{P17947}

4503 Pathogen[ P03383] interacts with 1 human partners:{P17947}

4504 Pathogen[ P03410] interacts with 1 human partners:{P17947}

4505 Pathogen[ P14075] interacts with 1 human partners:{P17947}

4506 Pathogen[ P0C206] interacts with 1 human partners:{P17947}

4507 Pathogen[ P03363] interacts with 1 human partners:{P17947}

4508 [Cluster 795]GO:0033819+F molecular\_function [name] lipoyl(octanoyl) transferase activity [def] "Catalysis of the reaction

4509 Pathogen[ P0C214] interacts with 1 human partners:{A6NK58}

4510 Pathogen[ P14079] interacts with 1 human partners:{A6NK58}

4511 Pathogen[ P03410] interacts with 1 human partners:{A6NK58}

4512 Pathogen[ P0C206] interacts with 1 human partners:{A6NK58}

4513 [Cluster 796]GO:0008309+F molecular\_function [name] double-stranded DNA specific exodeoxyribonuclease activity [def] "Catalysis of the sequential cleavage of mononucleotides from a free 5' or 3' terminus of a double-stranded DNA molecule." [GOC

4514 Pathogen[ Q2Q067] interacts with 1 human partners:{P39748}

4515 Pathogen[ P0C214] interacts with 1 human partners:{P39748}

4516 Pathogen[ P03346] interacts with 1 human partners:{P39748}

4517 Pathogen[ Q85601] interacts with 1 human partners:{P39748}

4518 Pathogen[ P14079] interacts with 1 human partners:{P39748}

4519 Pathogen[ P03410] interacts with 1 human partners:{P39748}

4520 Pathogen[ P0C206] interacts with 1 human partners:{P39748}

4521 [Cluster 797]GO:0004057+F molecular\_function [name] arginyltransferase activity [def] "Catalysis of the reaction

4522 Pathogen[ P0C214] interacts with 1 human partners:{O95260}

4523 Pathogen[ P03346] interacts with 1 human partners:{O95260}

4524 Pathogen[ Q85601] interacts with 1 human partners:{O95260}

4525 Pathogen[ P14079] interacts with 1 human partners:{O95260}

4526 Pathogen[ P03410] interacts with 1 human partners:{O95260}

4527 Pathogen[ P0C206] interacts with 1 human partners:{O95260}

4528 Pathogen[ P03363] interacts with 1 human partners:{O95260}

4529 [Cluster 798]GO:0004368+F molecular\_function [name] glycerol-3-phosphate dehydrogenase activity [def] "Catalysis of the reaction

4530 Pathogen[ P0C214] interacts with 1 human partners:{P21695}

4531 Pathogen[ P14079] interacts with 1 human partners:{P21695}

4532 Pathogen[ P03410] interacts with 1 human partners:{P21695}

4533 [Cluster 799]GO:0004809+F molecular\_function [name] tRNA (guanine-N2)-methyltransferase activity [def] "Catalysis of the reaction

4534 Pathogen[ P14079] interacts with 1 human partners:{Q7Z2T5}

4535 [Cluster 800]GO:0031419+F molecular\_function [name] cobalamin binding [def] "Interacting selectively and non-covalently with cobalamin (vitamin B12), a water-soluble vitamin characterized by possession of a corrin nucleus containing a cobalt atom." [GOC

4536 Pathogen[ Q2Q067] interacts with 1 human partners:{P22033}

4537 Pathogen[ P0C214] interacts with 1 human partners:{P22033}

4538 Pathogen[ P03346] interacts with 1 human partners:{Q9Y4U1}

4539 Pathogen[ Q85601] interacts with 1 human partners:{P22033}

4540 Pathogen[ P14079] interacts with 4 human partners:{Q9Y4U1;P27352;P22033;Q9NUN5}

4541 Pathogen[ P03383] interacts with 1 human partners:{P22033}

4542 Pathogen[ P03410] interacts with 4 human partners:{Q9NUN5;P27352;Q9Y4U1;P22033}

4543 Pathogen[ P14075] interacts with 1 human partners:{P22033}

4544 Pathogen[ P0C206] interacts with 2 human partners:{Q9Y4U1;P22033}

4545 [Cluster 801]GO:0019955+F molecular\_function [name] cytokine binding [def] "Interacting selectively and non-covalently with a cytokine, any of a group of proteins that function to control the survival, growth and differentiation of tissues and cells, and which have autocrine and paracrine activity." [GOC

4546 Pathogen[ Q2Q067] interacts with 1 human partners:{O14786}

4547 Pathogen[ P0C214] interacts with 1 human partners:{O14786}

4548 Pathogen[ P03346] interacts with 1 human partners:{O14786}

4549 Pathogen[ Q85601] interacts with 1 human partners:{O14786}

4550 Pathogen[ P03410] interacts with 1 human partners:{O14786}



4551 Pathogen[ P0C206] interacts with 1 human partners:{O14786}

4552 Pathogen[ P03363] interacts with 1 human partners:{O14786}

4553 [Cluster 802]GO:0009384+F molecular\_function [name] N-acylmannosamine kinase activity [def] "Catalysis of the reaction

4554 Pathogen[ P14079] interacts with 1 human partners:{Q9UJ70}

4555 [Cluster 803]GO:0004418+F molecular\_function [name] hydroxymethylbilane synthase activity [def] "Catalysis of the reaction

4556 Pathogen[ Q2Q067] interacts with 1 human partners:{P08397}

4557 Pathogen[ P0C214] interacts with 1 human partners:{P08397}

4558 Pathogen[ Q85601] interacts with 1 human partners:{P08397}

4559 Pathogen[ P14079] interacts with 1 human partners:{P08397}

4560 Pathogen[ P03383] interacts with 1 human partners:{P08397}

4561 Pathogen[ P03410] interacts with 1 human partners:{P08397}

4562 Pathogen[ P14075] interacts with 1 human partners:{P08397}

4563 Pathogen[ P0C206] interacts with 1 human partners:{P08397}

4564 [Cluster 804]GO:0008859+F molecular\_function [name] exoribonuclease II activity [def] "Catalysis of the reaction

4565 Pathogen[ P14079] interacts with 1 human partners:{Q96AZ6}

4566 Pathogen[ P03410] interacts with 1 human partners:{Q96AZ6}

4567 [Cluster 805]GO:0004114+F molecular\_function [name] 3',5'-cyclic-nucleotide phosphodiesterase activity [def] "Catalysis of the reaction

4568 Pathogen[ Q2Q067] interacts with 2 human partners:{O43924;P27815}

4569 Pathogen[ P0C214] interacts with 5 human partners:{P27815;P18545;Q07343;Q13956;O76083}

4570 Pathogen[ P03346] interacts with 2 human partners:{P27815;O43924}

4571 Pathogen[ Q85601] interacts with 2 human partners:{O43924;P27815}

4572 Pathogen[ P14079] interacts with 4 human partners:{O43924;P18545;Q13956;P27815}

4573 Pathogen[ P03410] interacts with 4 human partners:{Q13956;P18545;O43924;P27815}

4574 Pathogen[ P0C206] interacts with 4 human partners:{P18545;P27815;Q13956;O43924}

4575 Pathogen[ P03363] interacts with 2 human partners:{O43924;P27815}

4576 [Cluster 806]GO:0008440+F molecular\_function [name] inositol-1,4,5-trisphosphate 3-kinase activity [def] "Catalysis of the reaction

4577 Pathogen[ P14079] interacts with 1 human partners:{Q96DU7}

4578 Pathogen[ P03410] interacts with 1 human partners:{Q96DU7}

4579 Pathogen[ P0C206] interacts with 1 human partners:{Q96DU7}

4580 [Cluster 807]GO:0008379+F molecular\_function [name] thioredoxin peroxidase activity [def] "Catalysis of the reaction

4581 Pathogen[ Q2Q067] interacts with 1 human partners:{Q06830}

4582 Pathogen[ P0C214] interacts with 1 human partners:{Q06830}

4583 Pathogen[ P03346] interacts with 1 human partners:{Q06830}

4584 Pathogen[ Q85601] interacts with 1 human partners:{Q06830}

4585 Pathogen[ P03410] interacts with 1 human partners:{Q06830}

4586 Pathogen[ P0C206] interacts with 1 human partners:{Q06830}

4587 [Cluster 808]GO:0004121+F molecular\_function [name] cystathionine beta-lyase activity [def] "Catalysis of the reaction

4588 Pathogen[ Q2Q067] interacts with 1 human partners:{P32929}

4589 Pathogen[ P0C214] interacts with 1 human partners:{P32929}

4590 Pathogen[ P03346] interacts with 1 human partners:{P32929}

4591 Pathogen[ Q85601] interacts with 1 human partners:{P32929}

4592 Pathogen[ P14079] interacts with 1 human partners:{P32929}

4593 Pathogen[ P03410] interacts with 1 human partners:{P32929}

4594 Pathogen[ P0C206] interacts with 1 human partners:{P32929}

4595 [Cluster 809]GO:0052928+F

4596 Pathogen[ P14079] interacts with 1 human partners:{Q96Q11}

4597 Pathogen[ P03410] interacts with 1 human partners:{Q96Q11}

4598 [Cluster 810]GO:0043532+F molecular\_function [name] angiostatin binding [def] "Interacting selectively and non-covalently with angiostatin, a proteolytic product of plasminogen or plasmin containing at least one intact kringle domain, and which is an inhibitor of angiogenesis." [PMID

4599 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UII2}

4600 Pathogen[ P0C214] interacts with 1 human partners:{Q9UII2}

4601 Pathogen[ P03346] interacts with 1 human partners:{Q9UII2}

4602 Pathogen[ Q85601] interacts with 1 human partners:{Q9UII2}

4603 Pathogen[ P14079] interacts with 1 human partners:{Q9UII2}

4604 Pathogen[ P03383] interacts with 1 human partners:{Q9UII2}

4605 Pathogen[ P03410] interacts with 1 human partners:{Q9UII2}

4606 Pathogen[ P14075] interacts with 1 human partners:{Q9UII2}

4607 Pathogen[ P0C206] interacts with 1 human partners:{Q9UII2}

4608 [Cluster 811]GO:0004663+F molecular\_function [name] Rab geranylgeranyltransferase activity [def] "Catalysis of the reaction

4609 Pathogen[ P03346] interacts with 1 human partners:{P53611}

4610 Pathogen[ P03410] interacts with 1 human partners:{P53611}

4611 Pathogen[ P0C206] interacts with 1 human partners:{P53611}

4612 [Cluster 812]GO:0004468+F molecular\_function [name] lysine N-acetyltransferase activity [def] "Catalysis of the reaction

4613 Pathogen[ Q2Q067] interacts with 1 human partners:{Q92831}

4614 Pathogen[ P0C214] interacts with 1 human partners:{Q92831}

4615 Pathogen[ P03346] interacts with 1 human partners:{Q92831}

4616 Pathogen[ Q85601] interacts with 1 human partners:{Q92831}

4617 Pathogen[ P03383] interacts with 1 human partners:{Q92831}

4618 Pathogen[ P03410] interacts with 1 human partners:{Q92831}

4619 Pathogen[ P14075] interacts with 1 human partners:{Q92831}

4620 Pathogen[ P0C206] interacts with 1 human partners:{Q92831}

4621 Pathogen[ P03363] interacts with 1 human partners:{Q92831}

4622 [Cluster 813]GO:0019807+F molecular\_function [name] aspartoacylase activity [def]  
"Catalysis of the reaction

4623 Pathogen[ P03346] interacts with 1 human partners:{P45381}

4624 Pathogen[ P14079] interacts with 1 human partners:{P45381}

4625 Pathogen[ P03410] interacts with 1 human partners:{P45381}

4626 Pathogen[ P0C206] interacts with 1 human partners:{P45381}

4627 [Cluster 814]GO:0008753+F molecular\_function [name] NADPH dehydrogenase (quinone)  
activity [def] "Catalysis of the reaction

4628 Pathogen[ P0C214] interacts with 1 human partners:{P16083}

4629 Pathogen[ P03346] interacts with 1 human partners:{P16083}

4630 Pathogen[ P14079] interacts with 1 human partners:{P16083}

4631 Pathogen[ P03410] interacts with 1 human partners:{P16083}

4632 Pathogen[ P0C206] interacts with 1 human partners:{P16083}

4633 [Cluster 815]GO:0016743+F molecular\_function [name] carboxyl- or carbamoyltransferase  
activity [def] "Catalysis of the transfer of a carboxyl- or carbamoyl group from one  
compound (donor) to another (acceptor)." [GOC

4634 Pathogen[ P0C214] interacts with 1 human partners:{P00480}

4635 Pathogen[ Q85601] interacts with 1 human partners:{P00480}

4636 Pathogen[ P14079] interacts with 1 human partners:{P00480}

4637 Pathogen[ P03410] interacts with 1 human partners:{P00480}

4638 Pathogen[ P0C206] interacts with 1 human partners:{P00480}

4639 [Cluster 816]GO:0001530+F molecular\_function [name] lipopolysaccharide binding [def]  
"Interacting selectively and non-covalently with lipopolysaccharide." [PMID

4640 Pathogen[ Q2Q067] interacts with 2 human partners:{P25786;P28070}

4641 Pathogen[ P0C214] interacts with 3 human partners:{P10809;P25786;P28070}

4642 Pathogen[ P03346] interacts with 2 human partners:{P28070;P25786}

4643 Pathogen[ Q85601] interacts with 2 human partners:{P25786;P28070}

4644 Pathogen[ P03383] interacts with 2 human partners:{P25786;P28070}

4645 Pathogen[ P03410] interacts with 2 human partners:{P28070;P25786}

4646 Pathogen[ P14075] interacts with 2 human partners:{P28070;P25786}

4647 Pathogen[ P0C206] interacts with 2 human partners:{P25786;P28070}

4648 [Cluster 817]GO:0043559+F molecular\_function [name] insulin binding [def]  
"Interacting selectively and non-covalently with insulin, a polypeptide hormone produced  
by the islets of Langerhans of the pancreas in mammals, and by the homologous organs of  
other organisms." [ISBN

4649 Pathogen[ Q2Q067] interacts with 1 human partners:{P27986}

4650 Pathogen[ P0C214] interacts with 1 human partners:{P27986}

4651 Pathogen[ P03346] interacts with 1 human partners:{P27986}

4652 Pathogen[ Q85601] interacts with 1 human partners:{P27986}

4653 Pathogen[ P03383] interacts with 1 human partners:{P27986}

4654 Pathogen[ P03410] interacts with 1 human partners:{P27986}

4655 Pathogen[ P14075] interacts with 1 human partners:{P27986}

4656 Pathogen[ P0C206] interacts with 1 human partners:{P27986}

4657 Pathogen[ P03363] interacts with 1 human partners:{P27986}

4658 [Cluster 818]GO:0004476+F molecular\_function [name] mannose-6-phosphate isomerase  
activity [def] "Catalysis of the reaction

4659 Pathogen[ Q2Q067] interacts with 1 human partners:{P34949}

4660 Pathogen[ P0C214] interacts with 1 human partners:{P34949}

4661 Pathogen[ P03346] interacts with 1 human partners:{P34949}

4662 Pathogen[ Q85601] interacts with 1 human partners:{P34949}

4663 Pathogen[ P14079] interacts with 2 human partners:{P51606;P34949}

4664 Pathogen[ P03383] interacts with 1 human partners:{P34949}

4665 Pathogen[ P03410] interacts with 2 human partners:{P51606;P34949}

4666 Pathogen[ P14075] interacts with 1 human partners:{P34949}

4667 Pathogen[ P0C206] interacts with 1 human partners:{P34949}

4668 [Cluster 819]GO:0004765+F molecular\_function [name] shikimate kinase activity [def]  
"Catalysis of the reaction

4669 Pathogen[ P14079] interacts with 1 human partners:{Q8IYQ7}

4670 [Cluster 820]GO:0043795+F molecular\_function [name] glyceraldehyde oxidoreductase  
activity [def] "Catalysis of the reaction

4671 Pathogen[ Q2Q067] interacts with 1 human partners:{P15121}

4672 Pathogen[ P0C214] interacts with 1 human partners:{P15121}

4673 Pathogen[ P03346] interacts with 1 human partners:{P15121}

4674 Pathogen[ Q85601] interacts with 1 human partners:{P15121}

4675 Pathogen[ P0C206] interacts with 1 human partners:{P15121}

4676 [Cluster 821]GO:0004449+F molecular\_function [name] isocitrate dehydrogenase (NAD+)  
activity [def] "Catalysis of the reaction

4677 Pathogen[ P0C214] interacts with 3 human partners:{P50213;O43837;P51553}

4678 Pathogen[ P0C206] interacts with 1 human partners:{P50213}

4679 [Cluster 822]GO:0004613+F molecular\_function [name] phosphoenolpyruvate carboxykinase (GTP) activity [def] "Catalysis of the reaction

4680 Pathogen[ P0C214] interacts with 2 human partners:{P35558;Q16822}

4681 Pathogen[ P03383] interacts with 1 human partners:{Q16822}

4682 Pathogen[ P03410] interacts with 1 human partners:{Q16822}

4683 Pathogen[ P14075] interacts with 1 human partners:{Q16822}

4684 Pathogen[ P0C206] interacts with 1 human partners:{Q16822}

4685 [Cluster 823]GO:0004334+F molecular\_function [name] fumarylacetoacetase activity [def] "Catalysis of the reaction

4686 Pathogen[ P14079] interacts with 1 human partners:{P16930}

4687 Pathogen[ P03410] interacts with 1 human partners:{P16930}

4688 [Cluster 824]GO:0051033+F molecular\_function [name] RNA transmembrane transporter activity [def] "Catalysis of the transfer of RNA, ribonucleic acid, from one side of a membrane to the other." [GOC

4689 Pathogen[ P14079] interacts with 1 human partners:{Q9NXL6}

4690 [Cluster 825]GO:0016508+F molecular\_function [name] long-chain-enoyl-CoA hydratase activity [def] "Catalysis of the reaction

4691 Pathogen[ P0C214] interacts with 1 human partners:{P40939}

4692 [Cluster 826]GO:0003847+F molecular\_function [name] 1-alkyl-2-acetyl-glycerophosphocholine esterase activity [def] "Catalysis of the reaction

4693 Pathogen[ Q2Q067] interacts with 1 human partners:{Q15102}

4694 Pathogen[ P0C214] interacts with 2 human partners:{P68402;Q15102}

4695 Pathogen[ P03346] interacts with 1 human partners:{Q15102}

4696 Pathogen[ Q85601] interacts with 1 human partners:{Q15102}

4697 Pathogen[ P14079] interacts with 2 human partners:{Q15102;Q99487}

4698 Pathogen[ P03410] interacts with 1 human partners:{Q15102}

4699 Pathogen[ P14075] interacts with 1 human partners:{Q15102}

4700 Pathogen[ P0C206] interacts with 1 human partners:{Q15102}

4701 Pathogen[ P03363] interacts with 1 human partners:{Q15102}

4702 [Cluster 827]GO:0004639+F molecular\_function [name] phosphoribosylaminoimidazolesuccinocarboxamide synthase activity [def] "Catalysis of the reaction

4703 Pathogen[ P14079] interacts with 1 human partners:{P22234}

4704 Pathogen[ P03410] interacts with 1 human partners:{P22234}

4705 [Cluster 828]GO:0004648+F molecular\_function [name] O-phospho-L-serine [def] "Catalysis of the reaction

4706 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y617}

4707 Pathogen[ P14079] interacts with 1 human partners:{Q9Y617}

4708 Pathogen[ P03410] interacts with 1 human partners:{Q9Y617}

4709 [Cluster 829]GO:0070579+F molecular\_function [name] methylcytosine dioxygenase activity [def] "Catalysis of the reaction

4710 Pathogen[ P14079] interacts with 2 human partners:{Q6N021;O43151}

4711 Pathogen[ P03410] interacts with 2 human partners:{Q6N021;O43151}

4712 Pathogen[ P0C206] interacts with 1 human partners:{O43151}

4713 [Cluster 830]GO:0047840+F molecular\_function [name] dCTP diphosphatase activity [def] "Catalysis of the reaction

4714 Pathogen[ P14079] interacts with 1 human partners:{Q9H773}

4715 Pathogen[ P03410] interacts with 1 human partners:{Q9H773}

4716 [Cluster 831]GO:0034185+F molecular\_function [name] apolipoprotein binding [def] "Interacting selectively and non-covalently with an apolipoprotein, the protein component of a lipoprotein complex." [GOC

4717 Pathogen[ P14079] interacts with 1 human partners:{P10636}

4718 Pathogen[ P03410] interacts with 2 human partners:{P55157;P10636}

4719 Pathogen[ P0C206] interacts with 1 human partners:{P10636}

4720 [Cluster 832]GO:0004022+F molecular\_function [name] alcohol dehydrogenase (NAD) activity [def] "Catalysis of the reaction

4721 Pathogen[ P0C214] interacts with 1 human partners:{P07327}

4722 [Cluster 833]GO:0004024+F molecular\_function [name] alcohol dehydrogenase activity, zinc-dependent [def] "Catalysis of the reaction

4723 Pathogen[ P0C214] interacts with 1 human partners:{P07327}

4724 [Cluster 834]GO:0005072+F molecular\_function [name] transforming growth factor beta receptor, cytoplasmic mediator activity [def] "Activity of any of the molecules that transmit the signal from a TGF-beta receptor through the cytoplasm to the nucleus." [GOC

4725 Pathogen[ Q2Q067] interacts with 1 human partners:{P46527}

4726 Pathogen[ P0C214] interacts with 1 human partners:{P46527}

4727 Pathogen[ P03346] interacts with 1 human partners:{P46527}

4728 Pathogen[ Q85601] interacts with 1 human partners:{P46527}

4729 Pathogen[ P14079] interacts with 1 human partners:{P46527}

4730 Pathogen[ P03383] interacts with 1 human partners:{P46527}

4731 Pathogen[ P03410] interacts with 1 human partners:{P46527}

4732 Pathogen[ P14075] interacts with 1 human partners:{P46527}

4733 Pathogen[ P0C206] interacts with 1 human partners:{P46527}

4734 [Cluster 835]GO:0004446+F molecular\_function [name] inositol-hexakisphosphate phosphatase activity [def] "Catalysis of the reaction

4735 Pathogen[ P14079] interacts with 1 human partners:{Q9UNW1}

4736 Pathogen[ P03410] interacts with 1 human partners:{Q9UNW1}

4737 [Cluster 836]GO:0017081+F molecular\_function [name] chloride channel regulator activity [def] "Modulates the activity of a chloride channel." [GOC

4738 Pathogen[ P14079] interacts with 1 human partners:{Q8WZ55}

4739 Pathogen[ P03410] interacts with 1 human partners:{Q8WZ55}

4740 [Cluster 837]GO:0004784+F molecular\_function [name] superoxide dismutase activity [def] "Catalysis of the reaction

4741 Pathogen[ Q2Q067] interacts with 1 human partners:{O14618}

4742 Pathogen[ P0C214] interacts with 2 human partners:{P08294;O14618}

4743 Pathogen[ P03346] interacts with 1 human partners:{O14618}

4744 Pathogen[ Q85601] interacts with 1 human partners:{O14618}

4745 Pathogen[ P14079] interacts with 1 human partners:{O14618}

4746 Pathogen[ P03410] interacts with 1 human partners:{O14618}

4747 Pathogen[ P0C206] interacts with 1 human partners:{O14618}

4748 Pathogen[ P03363] interacts with 1 human partners:{O14618}

4749 [Cluster 838]GO:0052894+F

4750 Pathogen[ P0C214] interacts with 1 human partners:{Q9NWM0}

4751 [Cluster 839]GO:0031750+F molecular\_function [name] D3 dopamine receptor binding [def] "Interacting selectively and non-covalently with a D3 dopamine receptor." [GOC

4752 Pathogen[ P14079] interacts with 1 human partners:{O75781}

4753 Pathogen[ P03410] interacts with 1 human partners:{O75781}

4754 [Cluster 840]GO:0015194+F molecular\_function [name] L-serine transmembrane transporter activity [def] "Catalysis of the transfer of L-serine from one side of a membrane to the other. L-serine is the L-enantiomer of 2-amino-3-hydroxypropanoic acid." [GOC

4755 Pathogen[ P14079] interacts with 1 human partners:{Q9NRX5}

4756 Pathogen[ P03410] interacts with 1 human partners:{Q9NRX5}

4757 [Cluster 841]GO:0004819+F molecular\_function [name] glutamine-tRNA ligase activity [def] "Catalysis of the reaction

4758 Pathogen[ P0C214] interacts with 1 human partners:{P47897}

4759 Pathogen[ Q85601] interacts with 1 human partners:{P47897}

4760 Pathogen[ P14079] interacts with 1 human partners:{P47897}

4761 Pathogen[ P03410] interacts with 1 human partners:{P47897}

4762 Pathogen[ P0C206] interacts with 1 human partners:{P47897}

4763 Pathogen[ P03363] interacts with 1 human partners:{P47897}

4764 [Cluster 842]GO:0004522+F molecular\_function [name] pancreatic ribonuclease activity [def] "Catalysis of the endonucleolytic cleavage of RNA to 3'-phosphomononucleotides and 3'-phosphooligonucleotides ending in C-P or U-P with 2',3'-cyclic phosphate intermediates." [EC

4765 Pathogen[ P03363] interacts with 1 human partners:{P07998}

4766 [Cluster 843]GO:0016918+F molecular\_function [name] retinal binding [def] "Interacting selectively and non-covalently with retinal, one of the forms of vitamin A. Retinal plays an important role in the visual process in most vertebrates, combining with opsins to form visual pigments in the retina." [CHEBI

4767 Pathogen[ P03346] interacts with 1 human partners:{P29373}

4768 Pathogen[ P0C206] interacts with 1 human partners:{P29373}

4769 Pathogen[ P03363] interacts with 1 human partners:{P29373}

4770 [Cluster 844]GO:0036139+F

4771 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NWT6}

4772 Pathogen[ P0C214] interacts with 1 human partners:{Q9NWT6}

4773 Pathogen[ P03346] interacts with 1 human partners:{Q9NWT6}

4774 Pathogen[ Q85601] interacts with 1 human partners:{Q9NWT6}

4775 Pathogen[ P14079] interacts with 1 human partners:{Q9NWT6}

4776 Pathogen[ P03383] interacts with 1 human partners:{Q9NWT6}

4777 Pathogen[ P03410] interacts with 1 human partners:{Q9NWT6}

4778 Pathogen[ P14075] interacts with 1 human partners:{Q9NWT6}

4779 Pathogen[ P0C206] interacts with 1 human partners:{Q9NWT6}

4780 [Cluster 845]GO:0016709+F molecular\_function [name] oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen, NADH or NADPH as one donor, and incorporation of one atom of oxygen [def] "Catalysis of an oxidation-reduction (redox) reaction in which hydrogen or electrons are transferred from NADH or NADPH and one other donor, and one atom of oxygen is incorporated into one donor." [GOC

4781 Pathogen[ P03346] interacts with 1 human partners:{Q8TDZ2}

4782 Pathogen[ P14079] interacts with 1 human partners:{Q8TDZ2}

4783 Pathogen[ P03410] interacts with 1 human partners:{Q8TDZ2}

4784 Pathogen[ P0C206] interacts with 1 human partners:{Q8TDZ2}

4785 [Cluster 846]GO:0000247+F molecular\_function [name] C-8 sterol isomerase activity [def] "Catalysis of the reaction which results in unsaturation at C-7 in the B ring of sterols." [MetaCyc

4786 Pathogen[ P03346] interacts with 1 human partners:{Q12772}

4787 Pathogen[ Q85601] interacts with 1 human partners:{Q12772}

4788 Pathogen[ P14079] interacts with 1 human partners:{Q12772}

4789 Pathogen[ P03410] interacts with 1 human partners:{Q12772}

4790 Pathogen[ P0C206] interacts with 1 human partners:{Q12772}

4791 [Cluster 847]GO:0018025+F molecular\_function [name] calmodulin-lysine N-methyltransferase activity [def] "Catalysis of the reaction

4792 Pathogen[ P03346] interacts with 1 human partners:{Q7Z624}

4793 Pathogen[ P14079] interacts with 1 human partners:{Q7Z624}

4794 Pathogen[ P03410] interacts with 1 human partners:{Q7Z624}

4795 Pathogen[ P0C206] interacts with 1 human partners:{Q7Z624}

4796 Pathogen[ P03363] interacts with 1 human partners:{Q7Z624}

4797 [Cluster 848]GO:0047800+F molecular\_function [name] cysteamine dioxygenase activity  
[def] "Catalysis of the reaction

4798 Pathogen[ P14079] interacts with 1 human partners:{Q96SZ5}

4799 Pathogen[ P03410] interacts with 1 human partners:{Q96SZ5}

4800 [Cluster 849]GO:0047374+F molecular\_function [name] methylumbelliferyl-acetate  
deacetylase activity [def] "Catalysis of the reaction

4801 Pathogen[ P03346] interacts with 1 human partners:{P10768}

4802 Pathogen[ Q85601] interacts with 1 human partners:{P10768}

4803 Pathogen[ P03410] interacts with 1 human partners:{P10768}

4804 Pathogen[ P0C206] interacts with 1 human partners:{P10768}

4805 Pathogen[ P03363] interacts with 1 human partners:{P10768}

4806 [Cluster 850]GO:0015204+F molecular\_function [name] urea transmembrane transporter  
activity [def] "Enables the directed movement of urea cross a membrane into, out of or  
within a cell, or between cells. Urea is the water soluble compound H2N-CO-NH2." [ISBN

4807 Pathogen[ P14079] interacts with 1 human partners:{Q15849}

4808 Pathogen[ P03410] interacts with 2 human partners:{Q13336;Q15849}

4809 Pathogen[ P0C206] interacts with 1 human partners:{Q15849}

4810 [Cluster 851]GO:0002153+F molecular\_function [name] steroid receptor RNA activator RNA  
binding [def] "Selectively interacting with the steroid receptor RNA activator RNA (SRA).  
SRA enhances steroid hormone receptor transcriptional activity as an RNA transcript by an  
indirect mechanism that does not involve SRA-steroid receptor binding." [PMID

4811 Pathogen[ Q2Q067] interacts with 1 human partners:{P10827}

4812 Pathogen[ P03346] interacts with 1 human partners:{P10827}

4813 Pathogen[ Q85601] interacts with 1 human partners:{P10827}

4814 Pathogen[ P14079] interacts with 1 human partners:{P10827}

4815 Pathogen[ P0C206] interacts with 1 human partners:{P10827}

4816 [Cluster 852]GO:0005179+F molecular\_function [name] hormone activity [def] "The action  
characteristic of a hormone, any substance formed in very small amounts in one  
specialized organ or group of cells and carried (sometimes in the bloodstream) to another  
organ or group of cells in the same organism, upon which it has a specific regulatory  
action. The term was originally applied to agents with a stimulatory physiological action  
in vertebrate animals (as opposed to a chalone, which has a depressant action). Usage is  
now extended to regulatory compounds in lower animals and plants, and to synthetic  
substances having comparable effects\_ all bind receptors and trigger some biological  
process." [GOC

4817 Pathogen[ P14079] interacts with 7 human  
partners:{P01215;Q9BQ08;P20396;P01225;P81172;P81277;P05060}

4818 Pathogen[ P03383] interacts with 1 human partners:{P01215}

4819 Pathogen[ P03410] interacts with 8 human  
partners:{Q765I0;P02766;P05060;P01215;P81172;P81277;Q9BQ08;P20396}

4820 Pathogen[ P14075] interacts with 2 human partners:{P05060;P01215}

4821 Pathogen[ P0C206] interacts with 3 human partners:{P05060;P01215;P20396}

4822 Pathogen[ P03363] interacts with 2 human partners:{P02766;P05060}

4823 [Cluster 853]GO:0045523+F molecular\_function [name] interleukin-27 receptor binding  
[def] "Interacting selectively and non-covalently with the interleukin-27 receptor." [GOC

4824 Pathogen[ P14079] interacts with 1 human partners:{Q8NEV9}

4825 Pathogen[ P03410] interacts with 1 human partners:{Q8NEV9}

4826 [Cluster 854]GO:0051538+F molecular\_function [name] 3 iron, 4 sulfur cluster binding  
[def] "Interacting selectively and non-covalently with a 3 iron, 4 sulfur (3Fe-4S)  
cluster\_ this cluster consists of three iron atoms, with the inorganic sulfur atoms found  
between the irons and acting as bridging ligands. It is essentially a 4Fe-4S cluster with  
one iron missing." [GOC

4827 Pathogen[ Q2Q067] interacts with 1 human partners:{P21912}

4828 Pathogen[ P0C214] interacts with 2 human partners:{Q99798;P21912}

4829 Pathogen[ P03346] interacts with 1 human partners:{P21912}

4830 Pathogen[ Q85601] interacts with 1 human partners:{P21912}

4831 Pathogen[ P14079] interacts with 1 human partners:{P21912}

4832 Pathogen[ P03410] interacts with 1 human partners:{P21912}

4833 Pathogen[ P0C206] interacts with 2 human partners:{Q99798;P21912}

4834 [Cluster 855]GO:0004397+F molecular\_function [name] histidine ammonia-lyase activity  
[def] "Catalysis of the reaction

4835 Pathogen[ P14079] interacts with 1 human partners:{P42357}

4836 [Cluster 856]GO:0004832+F molecular\_function [name] valine-tRNA ligase activity [def]  
"Catalysis of the reaction

4837 Pathogen[ P0C214] interacts with 2 human partners:{P26640;Q5ST30}

4838 Pathogen[ P14079] interacts with 2 human partners:{Q5ST30;P26640}

4839 Pathogen[ P03410] interacts with 2 human partners:{Q5ST30;P26640}

4840 Pathogen[ P0C206] interacts with 2 human partners:{Q5ST30;P26640}

4841 [Cluster 857]GO:0005326+F molecular\_function [name] neurotransmitter transporter  
activity [def] "Enables the directed movement of a neurotransmitter into, out of or  
within a cell, or between cells. Neurotransmitters are any chemical substance that is

capable of transmitting (or inhibiting the transmission of) a nerve impulse from a neuron to another cell." [GOC

4842 Pathogen[ P14079] interacts with 2 human partners:{O14810;Q8WVH0}

4843 Pathogen[ P03410] interacts with 2 human partners:{O14810;Q8WVH0}

4844 [Cluster 858]GO:0004379+F molecular\_function [name] glycolipase activity [def] "Catalysis of the reaction N-tetradecanoyltransferase activity [def] "Catalysis of the reaction

4845 Pathogen[ Q2Q067] interacts with 1 human partners:{P30419}

4846 Pathogen[ P0C214] interacts with 2 human partners:{O60551;P30419}

4847 Pathogen[ Q85601] interacts with 2 human partners:{O60551;P30419}

4848 Pathogen[ P14079] interacts with 2 human partners:{O60551;P30419}

4849 Pathogen[ P03410] interacts with 2 human partners:{O60551;P30419}

4850 Pathogen[ P0C206] interacts with 2 human partners:{P30419;O60551}

4851 [Cluster 859]GO:0042171+F molecular\_function [name] lysophosphatidic acid acyltransferase activity [def] "Catalysis of the transfer of acyl groups from an acyl-CoA to lysophosphatidic acid to form phosphatidic acid." [PMID

4852 Pathogen[ P03346] interacts with 1 human partners:{Q9Y371}

4853 Pathogen[ P14079] interacts with 1 human partners:{Q9Y371}

4854 Pathogen[ P03410] interacts with 1 human partners:{Q9Y371}

4855 [Cluster 860]GO:0004579+F molecular\_function [name] dolichyl-diphosphooligosaccharide-protein glycotransferase activity [def] "Catalysis of the reaction

4856 Pathogen[ P14079] interacts with 5 human partners:{P39656;P04844;P61803;Q9NRP0;P46977}

4857 Pathogen[ P03410] interacts with 3 human partners:{P04844;P39656;P61803}

4858 Pathogen[ P0C206] interacts with 1 human partners:{P39656}

4859 [Cluster 861]GO:0016619+F molecular\_function [name] malate dehydrogenase (oxaloacetate-decarboxylating) activity [def] "Catalysis of the reaction

4860 Pathogen[ P0C214] interacts with 2 human partners:{P48163;Q16798}

4861 [Cluster 862]GO:0019797+F molecular\_function [name] procollagen-proline 3-dioxygenase activity [def] "Catalysis of the reaction

4862 Pathogen[ P14079] interacts with 1 human partners:{Q8IVL6}

4863 [Cluster 863]GO:0004751+F molecular\_function [name] ribose-5-phosphate isomerase activity [def] "Catalysis of the reaction

4864 Pathogen[ Q2Q067] interacts with 1 human partners:{P49247}

4865 Pathogen[ P0C214] interacts with 1 human partners:{P49247}

4866 Pathogen[ P03346] interacts with 1 human partners:{P49247}

4867 Pathogen[ Q85601] interacts with 1 human partners:{P49247}

4868 Pathogen[ P14079] interacts with 1 human partners:{P49247}

4869 Pathogen[ P03383] interacts with 1 human partners:{P49247}

4870 Pathogen[ P03410] interacts with 1 human partners:{P49247}

4871 Pathogen[ P14075] interacts with 1 human partners:{P49247}

4872 Pathogen[ P0C206] interacts with 1 human partners:{P49247}

4873 [Cluster 864]GO:0004833+F molecular\_function [name] tryptophan 2,3-dioxygenase activity [def] "Catalysis of the reaction

4874 Pathogen[ P14079] interacts with 1 human partners:{P48775}

4875 Pathogen[ P03410] interacts with 1 human partners:{P48775}

4876 [Cluster 865]GO:0008427+F molecular\_function [name] calcium-dependent protein kinase inhibitor activity [def] "Stops, prevents or reduces the activity of a calcium-dependent protein kinase." [GOC

4877 Pathogen[ P14079] interacts with 1 human partners:{Q7Z7J9}

4878 Pathogen[ P03410] interacts with 1 human partners:{Q7Z7J9}

4879 [Cluster 866]GO:0097157+F molecular\_function [name] pre-mRNA intronic binding [def] "Interacting selectively and non-covalently with an intronic sequence of a pre-messenger RNA (pre-mRNA)." [GOC

4880 Pathogen[ P03346] interacts with 1 human partners:{Q9BWF3}

4881 Pathogen[ P03363] interacts with 2 human partners:{O60306;Q9BWF3}

4882 [Cluster 867]GO:0055106+F molecular\_function [name] ubiquitin-protein ligase regulator activity [def] "Modulates the activity of a ubiquitin-protein ligase, an enzyme that catalyzes the covalent attachment of ubiquitin to lysine in a substrate protein." [GOC

4883 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96RU7}

4884 Pathogen[ P0C214] interacts with 1 human partners:{Q96RU7}

4885 Pathogen[ P03346] interacts with 1 human partners:{Q96RU7}

4886 Pathogen[ Q85601] interacts with 1 human partners:{Q96RU7}

4887 Pathogen[ P14079] interacts with 1 human partners:{Q96RU7}

4888 Pathogen[ P03383] interacts with 1 human partners:{Q96RU7}

4889 Pathogen[ P03410] interacts with 1 human partners:{Q96RU7}

4890 Pathogen[ P14075] interacts with 1 human partners:{Q96RU7}

4891 Pathogen[ P0C206] interacts with 1 human partners:{Q96RU7}

4892 [Cluster 868]GO:0016303+F molecular\_function [name] 1-phosphatidylinositol-3-kinase activity [def] "Catalysis of the reaction

4893 Pathogen[ Q2Q067] interacts with 1 human partners:{P27986}

4894 Pathogen[ P0C214] interacts with 1 human partners:{P27986}

4895 Pathogen[ P03346] interacts with 1 human partners:{P27986}

4896 Pathogen[ Q85601] interacts with 1 human partners:{P27986}

4897 Pathogen[ P03383] interacts with 1 human partners:{P27986}

4898 Pathogen[ P03410] interacts with 1 human partners:{P27986}

4899 Pathogen[ P14075] interacts with 1 human partners:{P27986}

4900 Pathogen[ P0C206] interacts with 1 human partners:{P27986}

4901 Pathogen[ P03363] interacts with 1 human partners:{P27986}

4902 [Cluster 869]GO:0048038+F molecular\_function [name] quinone binding [def] "Interacting selectively and non-covalently with a quinone, any member of a class of diketones derivable from aromatic compounds by conversion of two CH groups into CO groups with any necessary rearrangement of double bonds." [ISBN

4903 Pathogen[ Q2Q067] interacts with 2 human partners:{075251;075306}

4904 Pathogen[ P0C214] interacts with 2 human partners:{075306;075251}

4905 Pathogen[ P03346] interacts with 2 human partners:{075251;075306}

4906 Pathogen[ Q85601] interacts with 1 human partners:{075306}

4907 Pathogen[ P14079] interacts with 2 human partners:{075306;075251}

4908 Pathogen[ P03383] interacts with 2 human partners:{075251;075306}

4909 Pathogen[ P03410] interacts with 2 human partners:{075251;075306}

4910 Pathogen[ P14075] interacts with 2 human partners:{075306;075251}

4911 Pathogen[ P0C206] interacts with 2 human partners:{075251;075306}

4912 [Cluster 870]GO:0033192+F molecular\_function [name] calmodulin-dependent protein phosphatase activity [def] "Catalysis of the reaction

4913 Pathogen[ Q2Q067] interacts with 3 human partners:{Q08209;P35813;P49593}

4914 Pathogen[ P0C214] interacts with 3 human partners:{P35813;Q08209;P49593}

4915 Pathogen[ P03346] interacts with 3 human partners:{P35813;P49593;Q08209}

4916 Pathogen[ Q85601] interacts with 3 human partners:{P49593;Q08209;P35813}

4917 Pathogen[ P14079] interacts with 4 human partners:{P49593;P16298;P35813;Q08209}

4918 Pathogen[ P03383] interacts with 1 human partners:{P35813}

4919 Pathogen[ P03410] interacts with 3 human partners:{P35813;Q08209;P49593}

4920 Pathogen[ P14075] interacts with 1 human partners:{P35813}

4921 Pathogen[ P0C206] interacts with 3 human partners:{P49593;Q08209;P35813}

4922 [Cluster 871]GO:0017172+F molecular\_function [name] cysteine dioxygenase activity [def] "Catalysis of the reaction

4923 Pathogen[ P14079] interacts with 1 human partners:{Q16878}

4924 [Cluster 872]GO:0004051+F molecular\_function [name] arachidonate 5-lipoxygenase activity [def] "Catalysis of the reaction

4925 Pathogen[ Q2Q067] interacts with 1 human partners:{P09917}

4926 Pathogen[ P0C214] interacts with 1 human partners:{P09917}

4927 Pathogen[ P03346] interacts with 1 human partners:{P09917}

4928 Pathogen[ Q85601] interacts with 1 human partners:{P09917}

4929 Pathogen[ P14079] interacts with 2 human partners:{P20292;P09917}

4930 Pathogen[ P03410] interacts with 2 human partners:{P09917;P20292}

4931 Pathogen[ P0C206] interacts with 2 human partners:{P09917;P20292}

4932 [Cluster 873]GO:0046912+F molecular\_function [name] transferase activity, transferring acyl groups, acyl groups converted into alkyl on transfer [def] "Catalysis of the transfer of an acyl group from one compound (donor) to another (acceptor), with the acyl group being converted into alkyl on transfer." [GOC

4933 Pathogen[ P0C214] interacts with 2 human partners:{075390;P53396}

4934 Pathogen[ P03346] interacts with 1 human partners:{075390}

4935 Pathogen[ P03410] interacts with 1 human partners:{075390}

4936 Pathogen[ P0C206] interacts with 1 human partners:{075390}

4937 [Cluster 874]GO:0004726+F molecular\_function [name] non-membrane spanning protein tyrosine phosphatase activity [def] "Catalysis of the reaction

4938 Pathogen[ P03346] interacts with 3 human partners:{P43378;P17706;P24666}

4939 Pathogen[ P03410] interacts with 1 human partners:{P24666}

4940 Pathogen[ P0C206] interacts with 2 human partners:{P24666;P17706}

4941 Pathogen[ P03363] interacts with 3 human partners:{P17706;P43378;P24666}

4942 [Cluster 875]GO:0016890+F molecular\_function [name] site-specific endodeoxyribonuclease activity, specific for altered base [def] "Catalysis of the hydrolysis of ester linkages at specific sites within a deoxyribonucleic acid molecule by creating internal breaks." [GOC

4943 Pathogen[ Q2Q067] interacts with 1 human partners:{P27695}

4944 Pathogen[ P0C214] interacts with 1 human partners:{P27695}

4945 Pathogen[ P03346] interacts with 1 human partners:{P27695}

4946 Pathogen[ Q85601] interacts with 1 human partners:{P27695}

4947 Pathogen[ P14079] interacts with 1 human partners:{P27695}

4948 Pathogen[ P03383] interacts with 1 human partners:{P27695}

4949 Pathogen[ P03410] interacts with 1 human partners:{P27695}

4950 Pathogen[ P14075] interacts with 1 human partners:{P27695}

4951 Pathogen[ P0C206] interacts with 1 human partners:{P27695}

4952 [Cluster 876]GO:0050692+F molecular\_function [name] DBD domain binding [def] "Interacting selectively and non-covalently with the DBD, DNA binding domain, of a protein. The DNA binding domain of the vitamin D receptor, one of a family of receptors with the DBD, is split into three regions, the P, D and T boxes. Residues that are critical for target sequence selectivity form the P-box. The D-box contains residues that are important for homodimerization of class I nuclear receptors. The T-box is essential for both DNA-binding and transactivation of the VDR\_ this region may also be important for dimerization with RXR for class II nuclear receptors." [PMID

4953 Pathogen[ P03346] interacts with 1 human partners:{Q9P2W1}

4954 [Cluster 877]GO:0052654+F molecular\_function [name] L-leucine transaminase activity

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[def] "Catalysis of the reaction
4955 Pathogen[ P0C214] interacts with 2 human partners:{O15382;P54687}
4956 Pathogen[ Q85601] interacts with 1 human partners:{O15382}
4957 Pathogen[ P14079] interacts with 1 human partners:{O15382}
4958 Pathogen[ P03410] interacts with 1 human partners:{O15382}
4959 Pathogen[ P0C206] interacts with 1 human partners:{O15382}
4960 [Cluster 878]GO:0015038+F molecular_function [name] glutathione disulfide
oxidoreductase activity [def] "Catalysis of the reaction
4961 Pathogen[ Q2Q067] interacts with 1 human partners:{P35754}
4962 Pathogen[ P0C214] interacts with 1 human partners:{P35754}
4963 Pathogen[ P03346] interacts with 2 human partners:{Q9NS18;P35754}
4964 Pathogen[ Q85601] interacts with 1 human partners:{P35754}
4965 Pathogen[ P14079] interacts with 1 human partners:{P35754}
4966 Pathogen[ P03410] interacts with 1 human partners:{P35754}
4967 Pathogen[ P0C206] interacts with 2 human partners:{Q9NS18;P35754}
4968 Pathogen[ P03363] interacts with 1 human partners:{P35754}
4969 [Cluster 879]GO:0034452+F molecular_function [name] dynactin binding [def]
"Interacting selectively and non-covalently with any part of a dynactin complex_ dynactin
is a large protein complex that activates dynein-based motor activity." [GOC
4970 Pathogen[ P0C214] interacts with 1 human partners:{Q96G01}
4971 Pathogen[ P03346] interacts with 2 human partners:{Q96G01;Q6ZP65}
4972 Pathogen[ Q85601] interacts with 2 human partners:{Q6ZP65;Q96G01}
4973 Pathogen[ P14079] interacts with 2 human partners:{Q6ZP65;Q96G01}
4974 Pathogen[ P03410] interacts with 2 human partners:{Q96G01;Q6ZP65}
4975 Pathogen[ P0C206] interacts with 2 human partners:{Q6ZP65;Q96G01}
4976 Pathogen[ P03363] interacts with 1 human partners:{Q6ZP65}
4977 [Cluster 880]GO:0030352+F molecular_function [name] inositol-1,4,5,6-tetrakisphosphate
6-phosphatase activity [def] "Catalysis of the reaction
4978 Pathogen[ P14079] interacts with 1 human partners:{Q9UNW1}
4979 Pathogen[ P03410] interacts with 1 human partners:{Q9UNW1}
4980 [Cluster 881]GO:0047982+F molecular_function [name] homocysteine desulfhydrase
activity [def] "Catalysis of the reaction
4981 Pathogen[ Q2Q067] interacts with 1 human partners:{P32929}
4982 Pathogen[ P0C214] interacts with 1 human partners:{P32929}
4983 Pathogen[ P03346] interacts with 1 human partners:{P32929}
4984 Pathogen[ Q85601] interacts with 1 human partners:{P32929}
4985 Pathogen[ P14079] interacts with 1 human partners:{P32929}
4986 Pathogen[ P03410] interacts with 1 human partners:{P32929}
4987 Pathogen[ P0C206] interacts with 1 human partners:{P32929}
4988 [Cluster 882]GO:0071813+F molecular_function [name] lipoprotein particle binding [def]
"Interacting selectively and non-covalently with a lipoprotein particle. A lipoprotein
particle, also known as a lipoprotein, is a clathrate complex consisting of a lipid
enwrapped in a protein host without covalent binding in such a way that the complex has a
hydrophilic outer surface consisting of all the protein and the polar ends of any
phospholipids." [CHEBI
4989 Pathogen[ P14079] interacts with 1 human partners:{P10636}
4990 Pathogen[ P03410] interacts with 1 human partners:{P10636}
4991 Pathogen[ P0C206] interacts with 1 human partners:{P10636}
4992 [Cluster 883]GO:0001515+F molecular_function [name] opioid peptide activity [def]
"Naturally occurring peptide that is an opioid (any non-alkaloid having an opiate-like
effect that can be reversed by naloxone or other recognized morphine antagonist). These
include Leu- and Met-enkephalin, dynorphin and neoendorphin, alpha, beta, gamma and delta
endorphins formed from beta-lipotropin, various pronase-resistant peptides such as beta
casamorphin, and other peptides whose opiate-like action seems to be indirect." [ISBN
4993 Pathogen[ P0C214] interacts with 1 human partners:{O14613}
4994 Pathogen[ P03346] interacts with 1 human partners:{O14613}
4995 Pathogen[ Q85601] interacts with 1 human partners:{O14613}
4996 Pathogen[ P14079] interacts with 1 human partners:{O14613}
4997 Pathogen[ P03410] interacts with 1 human partners:{O14613}
4998 Pathogen[ P14075] interacts with 1 human partners:{O14613}
4999 Pathogen[ P0C206] interacts with 1 human partners:{O14613}
5000 Pathogen[ P03363] interacts with 1 human partners:{O14613}
5001 [Cluster 884]GO:0016812+F molecular_function [name] hydrolase activity, acting on
carbon-nitrogen (but not peptide) bonds, in cyclic amides [def] "Catalysis of the
hydrolysis of any non-peptide carbon-nitrogen bond in a cyclic amide." [GOC
5002 Pathogen[ Q2Q067] interacts with 2 human partners:{Q96NU7;Q14194}
5003 Pathogen[ P0C214] interacts with 3 human partners:{Q14194;O14531;Q96NU7}
5004 Pathogen[ P03346] interacts with 3 human partners:{Q96NU7;O14531;Q14194}
5005 Pathogen[ Q85601] interacts with 1 human partners:{Q14194}
5006 Pathogen[ P14079] interacts with 2 human partners:{Q96NU7;Q14194}
5007 Pathogen[ P03410] interacts with 3 human partners:{Q96NU7;O14531;Q14194}
5008 Pathogen[ P14075] interacts with 1 human partners:{Q96NU7}
5009 Pathogen[ P0C206] interacts with 3 human partners:{O14531;Q14194;Q96NU7}
5010 Pathogen[ P03363] interacts with 2 human partners:{Q14194;O14531}
5011 [Cluster 885]GO:0047704+F molecular_function [name] bile-salt sulfotransferase
activity [def] "Catalysis of the reaction

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5012 Pathogen[ P0C214] interacts with 1 human partners:{Q06520}

5013 Pathogen[ P03346] interacts with 1 human partners:{Q06520}

5014 Pathogen[ P03363] interacts with 1 human partners:{Q06520}

5015 [Cluster 886]GO:0097016+F molecular\_function [name] L27 domain binding [def]  
 "Interacting selectively and non-covalently with a L27 domain of a protein. L27 is composed of conserved negatively charged amino acids and a conserved aromatic amino acid. L27 domains can assemble proteins involved in signaling and establishment and maintenance of cell polarity into complexes by interacting in a heterodimeric manner." [GOC]

5016 Pathogen[ Q2Q067] interacts with 2 human partners:{O14910;Q12959}

5017 Pathogen[ P0C214] interacts with 2 human partners:{O14910;Q12959}

5018 Pathogen[ P03346] interacts with 2 human partners:{O14910;Q12959}

5019 Pathogen[ Q85601] interacts with 2 human partners:{O14910;Q12959}

5020 Pathogen[ P03383] interacts with 1 human partners:{O14910}

5021 Pathogen[ P03410] interacts with 2 human partners:{O14910;Q12959}

5022 Pathogen[ P14075] interacts with 1 human partners:{O14910}

5023 Pathogen[ P0C206] interacts with 2 human partners:{O14910;Q12959}

5024 Pathogen[ P03363] interacts with 2 human partners:{Q12959;O14910}

5025 [Cluster 887]GO:0000062+F molecular\_function [name] fatty-acyl-CoA binding [def]  
 "Interacting selectively and non-covalently with acyl-CoA, any derivative of coenzyme A in which the sulfhydryl group is in thiolester linkage with a fatty acyl group." [GOC]

5026 Pathogen[ P0C214] interacts with 2 human partners:{P40939;O00154}

5027 Pathogen[ P03346] interacts with 1 human partners:{Q9BR61}

5028 Pathogen[ P03410] interacts with 1 human partners:{O00154}

5029 Pathogen[ P0C206] interacts with 1 human partners:{Q9BR61}

5030 Pathogen[ P03363] interacts with 1 human partners:{Q9BR61}

5031 [Cluster 888]GO:0004345+F molecular\_function [name] glucose-6-phosphate dehydrogenase activity [def] "Catalysis of the reaction

5032 Pathogen[ P0C214] interacts with 1 human partners:{P11413}

5033 [Cluster 889]GO:0008119+F molecular\_function [name] thiopurine S-methyltransferase activity [def] "Catalysis of the reaction

5034 Pathogen[ Q2Q067] interacts with 1 human partners:{P51580}

5035 Pathogen[ P0C214] interacts with 1 human partners:{P51580}

5036 Pathogen[ P03346] interacts with 1 human partners:{P51580}

5037 Pathogen[ P14079] interacts with 2 human partners:{Q16625;P51580}

5038 Pathogen[ P03410] interacts with 2 human partners:{Q16625;P51580}

5039 Pathogen[ P14075] interacts with 1 human partners:{P51580}

5040 Pathogen[ P0C206] interacts with 1 human partners:{P51580}

5041 Pathogen[ P03363] interacts with 1 human partners:{P51580}

5042 [Cluster 890]GO:0046592+F molecular\_function [name] polyamine oxidase activity [def]  
 "Catalysis of the oxidative degradation or interconversion of polyamines." [EC]

5043 Pathogen[ P0C214] interacts with 1 human partners:{Q9NWM0}

5044 [Cluster 891]GO:0047280+F molecular\_function [name] nicotinamide phosphoribosyltransferase activity [def] "Catalysis of the reaction

5045 Pathogen[ P0C214] interacts with 1 human partners:{P43490}

5046 Pathogen[ P14079] interacts with 1 human partners:{P43490}

5047 Pathogen[ P03410] interacts with 1 human partners:{P43490}

5048 Pathogen[ P0C206] interacts with 1 human partners:{P43490}

5049 [Cluster 892]GO:0003937+F molecular\_function [name] IMP cyclohydrolase activity [def]  
 "Catalysis of the reaction

5050 Pathogen[ P0C214] interacts with 1 human partners:{P31939}

5051 Pathogen[ P14079] interacts with 1 human partners:{P31939}

5052 Pathogen[ P03410] interacts with 1 human partners:{P31939}

5053 Pathogen[ P0C206] interacts with 1 human partners:{P31939}

5054

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1 [Section 12] cellular compartments where PARTIAL HTLV viruses may interact with the host
2
3
4 [Cluster 1]GO:0001931+C cellular_component [name] uropod [def] "A membrane projection
with related cytoskeletal components at the trailing edge of a cell in the process of
migrating or being activated, found on the opposite side of the cell from the leading
edge or immunological synapse, respectively." [GOC
5 Pathogen[ Q2Q067] interacts with 1 human partners:{P35579}
6 Pathogen[ P03346] interacts with 2 human partners:{P35579;P26038}
7 Pathogen[ Q85601] interacts with 1 human partners:{P35579}
8 Pathogen[ P14079] interacts with 2 human partners:{P35579;P26038}
9 Pathogen[ P03383] interacts with 1 human partners:{P35579}
10 Pathogen[ P03410] interacts with 2 human partners:{P35579;P26038}
11 Pathogen[ P14075] interacts with 1 human partners:{P35579}
12 Pathogen[ P0C206] interacts with 1 human partners:{P35579}
13 Pathogen[ P03363] interacts with 1 human partners:{P35579}
14 [Cluster 2]GO:0070765+C cellular_component [name] gamma-secretase complex [def] "A
protein complex that has aspartic-type endopeptidase activity, and contains a catalytic
subunit, presenilin (PS), that is a prototypical member of the GxGD-type aspartyl
peptidases. The complex also contains additional subunits, including nicastrin, APH-1,
PEN-2, and a regulatory subunit, CD147. Gamma-secretase cleaves several transmembrane
proteins including the cell surface receptor Notch and the beta-amyloid precursor
protein." [GOC
15 Pathogen[ P03346] interacts with 1 human partners:{P49755}
16 Pathogen[ P14079] interacts with 1 human partners:{P49755}
17 Pathogen[ P0C206] interacts with 1 human partners:{P49755}
18 [Cluster 3]GO:0071556+C cellular_component [name] integral to luminal side of
endoplasmic reticulum membrane [def] "Penetrating at least one phospholipid bilayer of
the endoplasmic reticulum membrane, with the bulk of the gene product located on the side
that faces the lumen." [GOC
19 Pathogen[ Q2Q067] interacts with 1 human partners:{P27797}
20 Pathogen[ P0C214] interacts with 1 human partners:{P27797}
21 Pathogen[ P03346] interacts with 1 human partners:{P27797}
22 Pathogen[ Q85601] interacts with 1 human partners:{P27797}
23 Pathogen[ P03383] interacts with 1 human partners:{P27797}
24 Pathogen[ P03410] interacts with 1 human partners:{P27797}
25 Pathogen[ P14075] interacts with 1 human partners:{P27797}
26 Pathogen[ P0C206] interacts with 1 human partners:{P27797}
27 Pathogen[ P03363] interacts with 1 human partners:{P27797}
28 [Cluster 4]GO:0043227+C cellular_component [name] membrane-bounded organelle [def]
"Organized structure of distinctive morphology and function, bounded by a single or
double lipid bilayer membrane. Includes the nucleus, mitochondria, plastids, vacuoles,
and vesicles. Excludes the plasma membrane." [GOC
29 Pathogen[ P03410] interacts with 1 human partners:{P33176}
30 Pathogen[ P03363] interacts with 1 human partners:{P33176}
31 [Cluster 5]GO:0060077+C cellular_component [name] inhibitory synapse [def] "A synapse
in which an action potential in the presynaptic cell reduces the probability of an action
potential occurring in the postsynaptic cell." [GOC
32 Pathogen[ P03346] interacts with 1 human partners:{Q9UUP2}
33 Pathogen[ P14079] interacts with 1 human partners:{Q9UUP2}
34 Pathogen[ P03410] interacts with 1 human partners:{Q9UUP2}
35 Pathogen[ P0C206] interacts with 1 human partners:{Q9UUP2}
36 Pathogen[ P03363] interacts with 1 human partners:{Q9UUP2}
37 [Cluster 6]GO:0034752+C cellular_component [name] cytosolic aryl hydrocarbon receptor
complex [def] "An aryl hydrocarbon receptor complex found in the cytosol, in which the
ligand-binding subunit AhR is not bound to ligand_ consists of AhR, two molecules of
HSP90, the protein kinase c-Src, and the immunophilin XAP2/AIP." [PMID
38 Pathogen[ Q2Q067] interacts with 1 human partners:{P35869}
39 Pathogen[ P0C214] interacts with 1 human partners:{P35869}
40 Pathogen[ P03346] interacts with 1 human partners:{P35869}
41 Pathogen[ Q85601] interacts with 1 human partners:{P35869}
42 Pathogen[ P14079] interacts with 1 human partners:{P35869}
43 Pathogen[ P03383] interacts with 1 human partners:{P35869}
44 Pathogen[ P14075] interacts with 1 human partners:{P35869}
45 Pathogen[ P0C206] interacts with 1 human partners:{P35869}
46 Pathogen[ P03363] interacts with 1 human partners:{P35869}
47 [Cluster 7]GO:0031259+C cellular_component [name] uropod membrane [def] "The portion of
the plasma membrane surrounding a uropod." [GOC
48 Pathogen[ P03346] interacts with 1 human partners:{Q6UWF3}
49 Pathogen[ P14079] interacts with 1 human partners:{Q6UWF3}
50 Pathogen[ P03383] interacts with 1 human partners:{Q6UWF3}
51 Pathogen[ P03410] interacts with 1 human partners:{Q6UWF3}
52 Pathogen[ P14075] interacts with 1 human partners:{Q6UWF3}
53 Pathogen[ P0C206] interacts with 1 human partners:{Q6UWF3}
54 Pathogen[ P03363] interacts with 1 human partners:{Q6UWF3}
55 [Cluster 8]GO:0035770+C cellular_component [name] ribonucleoprotein granule [def] "A
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non-membranous macromolecular complex containing proteins and translationally silenced mRNAs. RNA granules contain proteins that control the localization, stability, and translation of their RNA cargo. Different types of RNA granules (RGs) exist, depending on the cell type and cellular conditions." [GOC

56 Pathogen[ P03346] interacts with 1 human partners:{Q8NHU6}

57 Pathogen[ P14079] interacts with 1 human partners:{Q8NHU6}

58 Pathogen[ P03410] interacts with 1 human partners:{Q8NHU6}

59 Pathogen[ P03363] interacts with 1 human partners:{Q8NHU6}

60 [Cluster 9]GO:0031231+C cellular\_component [name] intrinsic to peroxisomal membrane [def] "Located in the peroxisomal membrane such that some covalently attached portion of the gene product, for example part of a peptide sequence or some other covalently attached group such as a GPI anchor, spans or is embedded in one or both leaflets of the membrane." [GOC

61 Pathogen[ P14079] interacts with 1 human partners:{Q96HA9}

62 Pathogen[ P03383] interacts with 1 human partners:{Q96HA9}

63 Pathogen[ P03410] interacts with 1 human partners:{Q96HA9}

64 Pathogen[ P14075] interacts with 1 human partners:{Q96HA9}

65 Pathogen[ P0C206] interacts with 1 human partners:{Q96HA9}

66 [Cluster 10]GO:0033593+C cellular\_component [name] BRCA2-MAGE-D1 complex [def] "A heterodimeric protein complex formed of BRCA2 and MAGE-D1\_ may mediate the synergistic activities of the two proteins in regulating cell growth." [PMID

67 Pathogen[ P03346] interacts with 1 human partners:{P51587}

68 Pathogen[ Q85601] interacts with 1 human partners:{P51587}

69 Pathogen[ P14079] interacts with 1 human partners:{P51587}

70 Pathogen[ P03410] interacts with 1 human partners:{P51587}

71 Pathogen[ P0C206] interacts with 1 human partners:{P51587}

72 [Cluster 11]GO:0031307+C cellular\_component [name] integral to mitochondrial outer membrane [def] "Located such that some or all of the gene product itself penetrates at least one phospholipid bilayer of the mitochondrial outer membrane. May also refer to the state of being buried in the bilayer with no exposure outside the bilayer." [GOC

73 Pathogen[ Q2Q067] interacts with 1 human partners:{Q12983}

74 Pathogen[ P0C214] interacts with 2 human partners:{Q8TDB4;Q12983}

75 Pathogen[ P03346] interacts with 2 human partners:{Q12983;Q8TDB4}

76 Pathogen[ Q85601] interacts with 2 human partners:{Q8TDB4;Q12983}

77 Pathogen[ P14079] interacts with 3 human partners:{Q8IVP5;Q12983;Q8TDB4}

78 Pathogen[ P03383] interacts with 2 human partners:{Q8TDB4;Q12983}

79 Pathogen[ P03410] interacts with 3 human partners:{Q12983;Q8TDB4;Q8IVP5}

80 Pathogen[ P14075] interacts with 2 human partners:{Q12983;Q8TDB4}

81 Pathogen[ P0C206] interacts with 2 human partners:{Q12983;Q8TDB4}

82 [Cluster 12]GO:0001527+C cellular\_component [name] microfibril [def] "Extracellular matrix components occurring independently or along with elastin. Thought to have force-bearing functions in tendon. In addition to fibrillins, microfibrils may contain other associated proteins." [http

83 Pathogen[ P14079] interacts with 1 human partners:{P55081}

84 [Cluster 13]GO:0032301+C cellular\_component [name] MutSalpha complex [def] "A heterodimer involved in the recognition and repair of base-base and small insertion/deletion mismatches. In human the complex consists of two subunits, MSH2 and MSH6." [PMID

85 Pathogen[ P14079] interacts with 1 human partners:{P52701}

86 Pathogen[ P03410] interacts with 1 human partners:{P52701}

87 Pathogen[ P0C206] interacts with 1 human partners:{P52701}

88 [Cluster 14]GO:0044447+C cellular\_component [name] axoneme part [def] "Any constituent part of an axoneme, the bundle of microtubules and associated proteins that forms the core of cilia and flagella in eukaryotic cells and is responsible for their movements." [GOC

89 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8TC71}

90 Pathogen[ P0C214] interacts with 1 human partners:{Q8TC71}

91 Pathogen[ P03346] interacts with 1 human partners:{Q8TC71}

92 Pathogen[ P14079] interacts with 1 human partners:{Q8TC71}

93 Pathogen[ P03383] interacts with 1 human partners:{Q8TC71}

94 Pathogen[ P03410] interacts with 1 human partners:{Q8TC71}

95 Pathogen[ P14075] interacts with 1 human partners:{Q8TC71}

96 Pathogen[ P0C206] interacts with 1 human partners:{Q8TC71}

97 Pathogen[ P03363] interacts with 1 human partners:{Q8TC71}

98 [Cluster 15]GO:0042627+C cellular\_component [name] chylomicron [def] "A large lipoprotein particle (diameter 75-1200 nm) composed of a central core of triglycerides and cholesterol surrounded by a protein-phospholipid coating. The proteins include one molecule of apolipoprotein B-48 and may include a variety of apolipoproteins, including APOAs, APOCs and APOE. Chylomicrons are found in blood or lymph and carry lipids from the intestines into other body tissues." [GOC

99 Pathogen[ P14079] interacts with 1 human partners:{Q0VD83}

100 Pathogen[ P03410] interacts with 1 human partners:{Q0VD83}

101 [Cluster 16]GO:0005784+C cellular\_component [name] Sec61 translocon complex [def] "A translocon complex that contains a core heterotrimer of conserved alpha, beta and gamma subunits, and may contain additional proteins (translocon-associated proteins or TRAPs)\_ in budding yeast the core proteins are Sec61p, Sbh1p, and Sss1p. The Sec61 translocon

complex functions in cotranslational and posttranslational translocation events." [GOC

102 Pathogen[ P03346] interacts with 1 human partners:{Q15041}

103 Pathogen[ P14079] interacts with 2 human partners:{Q15041;P51571}

104 Pathogen[ P03410] interacts with 1 human partners:{Q15041}

105 Pathogen[ P0C206] interacts with 1 human partners:{Q15041}

106 Pathogen[ P03363] interacts with 1 human partners:{Q15041}

107 [Cluster 17]GO:0005838+C cellular\_component [name] proteasome regulatory particle [def] "A multisubunit complex, which caps one or both ends of the proteasome core complex. This complex recognizes and unfolds ubiquitinated proteins, and translocates them to the proteasome core complex." [GOC

108 Pathogen[ Q2Q067] interacts with 8 human partners:{Q99460;O75832;P48556;O00233;P51665;Q13200;Q9UNM6;O00232}

109 Pathogen[ P0C214] interacts with 8 human partners:{P51665;P48556;Q13200;O00232;Q99460;O75832;Q9UNM6;O00233}

110 Pathogen[ P03346] interacts with 8 human partners:{Q99460;O00232;O75832;O00233;Q9UNM6;Q13200;P48556;P51665}

111 Pathogen[ Q85601] interacts with 6 human partners:{Q9UNM6;O75832;O00233;Q13200;Q99460;P48556}

112 Pathogen[ P14079] interacts with 7 human partners:{P48556;O00232;O75832;O00233;P51665;Q9UNM6;Q99460}

113 Pathogen[ P03383] interacts with 6 human partners:{O00233;O75832;Q9UNM6;Q99460;Q13200;P48556}

114 Pathogen[ P03410] interacts with 8 human partners:{Q99460;O00233;O00232;P48556;Q13200;P51665;Q9UNM6;O75832}

115 Pathogen[ P14075] interacts with 5 human partners:{O75832;O00233;Q13200;P48556;Q9UNM6}

116 Pathogen[ P0C206] interacts with 7 human partners:{Q9UNM6;O75832;O00232;Q13200;Q99460;O00233;P48556}

117 [Cluster 18]GO:0017059+C cellular\_component [name] serine C-palmitoyltransferase complex [def] "An enzyme complex that catalyzes the transfer of a palmitoyl on to serine, forming 3-dehydro-D-sphinganine." [EC

118 Pathogen[ P14079] interacts with 2 human partners:{Q8NFR3;Q969W0}

119 Pathogen[ P03410] interacts with 2 human partners:{Q969W0;Q8NFR3}

120 Pathogen[ P14075] interacts with 1 human partners:{Q969W0}

121 Pathogen[ P0C206] interacts with 2 human partners:{Q8NFR3;Q969W0}

122 [Cluster 19]GO:0036057+C cellular\_component [name] slit diaphragm [def] "A specialized cell-cell junction found between the interdigitating foot processes of the glomerular epithelium (the podocytes) in the vertebrate kidney, which is adapted for facilitating glomerular filtration." [GOC

123 Pathogen[ Q2Q067] interacts with 1 human partners:{Q86UL8}

124 Pathogen[ P03346] interacts with 2 human partners:{Q86UL8;Q9NP85}

125 Pathogen[ Q85601] interacts with 1 human partners:{Q86UL8}

126 Pathogen[ P14079] interacts with 2 human partners:{Q9NP85;Q86UL8}

127 Pathogen[ P03410] interacts with 2 human partners:{Q9NP85;Q86UL8}

128 Pathogen[ P0C206] interacts with 2 human partners:{Q86UL8;Q9NP85}

129 Pathogen[ P03363] interacts with 1 human partners:{Q86UL8}

130 [Cluster 20]GO:0005943+C cellular\_component [name] 1-phosphatidylinositol-4-phosphate 3-kinase, class IA complex [def] "A heterodimeric protein complex that possesses 1-phosphatidylinositol-4-phosphate 3-kinase activity\_ comprises a catalytic Class IA phosphoinositide 3-kinase (PI3K) subunit of 110-120 kDa and an associated SH2 domain-containing regulatory subunit that is a member of a family of related proteins often called p85 proteins. Class I PI3Ks phosphorylate phosphatidylinositol [PI], phosphatidylinositol-4-phosphate [PI(4)P] and phosphatidylinositol-4,5-bisphosphate [PI(4,5)P2], and are divided into subclasses A and B according to the type of adaptor subunit with which they associate. Through the interaction with the SH2-containing adaptor subunits, Class IA PI3K catalytic subunits are linked to tyrosine kinase signaling pathways." [PMID

131 Pathogen[ Q2Q067] interacts with 1 human partners:{P27986}

132 Pathogen[ P0C214] interacts with 1 human partners:{P27986}

133 Pathogen[ P03346] interacts with 1 human partners:{P27986}

134 Pathogen[ Q85601] interacts with 1 human partners:{P27986}

135 Pathogen[ P03383] interacts with 1 human partners:{P27986}

136 Pathogen[ P03410] interacts with 1 human partners:{P27986}

137 Pathogen[ P14075] interacts with 1 human partners:{P27986}

138 Pathogen[ P0C206] interacts with 1 human partners:{P27986}

139 Pathogen[ P03363] interacts with 1 human partners:{P27986}

140 [Cluster 21]GO:0009346+C cellular\_component [name] citrate lyase complex [def] "Citrate lyase is a multienzyme complex with three constituents

141 Pathogen[ P0C214] interacts with 1 human partners:{P53396}

142 Pathogen[ P14079] interacts with 1 human partners:{Q8N0X4}

143 Pathogen[ P03410] interacts with 1 human partners:{Q8N0X4}

144 [Cluster 22]GO:0008091+C cellular\_component [name] spectrin [def] "Membrane associated dimeric protein (240 and 220 kDa) of erythrocytes. Forms a complex with ankyrin, actin and probably other components of the membrane cytoskeleton, so that there is a mesh of proteins underlying the plasma membrane, potentially restricting the lateral mobility of integral proteins." [GOC

145 Pathogen[ Q2Q067] interacts with 2 human partners:{Q01082;P11171}

146 Pathogen[ P0C214] interacts with 2 human partners:{Q01082;P11171}

147 Pathogen[ P03346] interacts with 6 human partners:{P02549;P11277;Q13813;Q01082;P11171;O43491}

148 Pathogen[ Q85601] interacts with 2 human partners:{P11171;Q01082}

149 Pathogen[ P14079] interacts with 5 human partners:{P11171;Q01082;P11277;Q13813;P02549}

150 Pathogen[ P03410] interacts with 6 human partners:{P02549;P11171;O43491;Q01082;Q13813;P11277}

151 Pathogen[ P14075] interacts with 1 human partners:{P11171}

152 Pathogen[ P0C206] interacts with 4 human partners:{Q01082;O43491;P11277;P11171}

153 Pathogen[ P03363] interacts with 6 human partners:{P11277;P02549;Q01082;P11171;O43491;Q13813}

154 [Cluster 23]GO:0045160+C cellular\_component [name] myosin I complex [def] "A myosin complex containing a class I myosin heavy chain and associated light chains\_ myosin I heavy chains are single-headed, possess tails of various lengths, and do not self-associate into bipolar filaments\_ myosin I complexes are involved in diverse processes related to membrane traffic and cell movement." [GOC

155 Pathogen[ P0C214] interacts with 1 human partners:{O00159}

156 Pathogen[ Q85601] interacts with 1 human partners:{O00159}

157 Pathogen[ P03410] interacts with 1 human partners:{O00159}

158 Pathogen[ P0C206] interacts with 1 human partners:{O00159}

159 [Cluster 24]GO:0043626+C cellular\_component [name] PCNA complex [def] "A protein complex composed of three identical PCNA monomers, each comprising two similar domains, which are joined in a head-to-tail arrangement to form a homotrimer. Forms a ring-like structure in solution, with a central hole sufficiently large to accommodate the double helix of DNA. Originally characterized as a DNA sliding clamp for replicative DNA polymerases and as an essential component of the replisome, and has also been shown to be involved in other processes including Okazaki fragment processing, DNA repair, translesion DNA synthesis, DNA methylation, chromatin remodeling and cell cycle regulation." [GOC

160 Pathogen[ Q2Q067] interacts with 1 human partners:{P12004}

161 Pathogen[ P03346] interacts with 1 human partners:{P12004}

162 Pathogen[ Q85601] interacts with 1 human partners:{P12004}

163 Pathogen[ P14079] interacts with 1 human partners:{P12004}

164 Pathogen[ P03410] interacts with 1 human partners:{P12004}

165 Pathogen[ P0C206] interacts with 1 human partners:{P12004}

166 [Cluster 25]GO:0002080+C cellular\_component [name] acrosomal membrane [def] "The membrane that surrounds the acrosomal lumen. The acrosome is a special type of lysosome in the head of a spermatozoon that contains acid hydrolases and is concerned with the breakdown of the outer membrane of the ovum during fertilization." [GOC

167 Pathogen[ P14079] interacts with 2 human partners:{Q9BY14;Q9NQ60}

168 Pathogen[ P03410] interacts with 2 human partners:{Q9NQ60;Q9BY14}

169 [Cluster 26]GO:0032433+C cellular\_component [name] filopodium tip [def] "The end of a filopodium distal to the body of the cell." [GOC

170 Pathogen[ P14079] interacts with 1 human partners:{P09327}

171 [Cluster 27]GO:0070722+C cellular\_component [name] Tle3-Aes complex [def] "A transcriptional repressor complex that consists of a heterodimer of the proteins Tle3 (also known as Grg3b) and Aes (Grg5), which are homologs of the Drosophila groucho gene product." [GOC

172 Pathogen[ P03346] interacts with 1 human partners:{Q96SF7}

173 [Cluster 28]GO:0030056+C cellular\_component [name] hemidesmosome [def] "A cell-substrate junction that forms a point of contact between the basal surface of epithelial cells and the basal lamina. Morphologically resembles desmosomes\_ attached to intermediate filaments." [ISBN

174 Pathogen[ P03346] interacts with 2 human partners:{Q96RT1;Q15149}

175 Pathogen[ Q85601] interacts with 1 human partners:{Q96RT1}

176 Pathogen[ P14079] interacts with 3 human partners:{Q96RT1;Q15149;P61158}

177 Pathogen[ P03410] interacts with 2 human partners:{Q96RT1;Q15149}

178 Pathogen[ P0C206] interacts with 1 human partners:{Q96RT1}

179 Pathogen[ P03363] interacts with 2 human partners:{Q96RT1;Q15149}

180 [Cluster 29]GO:0033269+C cellular\_component [name] internode region of axon [def] "An axon part that is located between the nodes of Ranvier and surrounded by compact myelin sheath." [GOC

181 Pathogen[ P14079] interacts with 1 human partners:{P02686}

182 Pathogen[ P03410] interacts with 1 human partners:{P02686}

183 [Cluster 30]GO:0031227+C cellular\_component [name] intrinsic to endoplasmic reticulum membrane [def] "Located in the endoplasmic reticulum membrane such that some covalently attached portion of the gene product, for example part of a peptide sequence or some other covalently attached group such as a GPI anchor, spans or is embedded in one or both leaflets of the membrane." [GOC

184 Pathogen[ P14079] interacts with 2 human partners:{Q96JX3;Q96FM1}

185 Pathogen[ P03410] interacts with 2 human partners:{Q96FM1;Q96JX3}

186 [Cluster 31]GO:0043218+C cellular\_component [name] compact myelin [def] "The portion of the myelin sheath in which layers of cell membrane are tightly juxtaposed, completely excluding cytoplasm. The juxtaposed cytoplasmic surfaces form the major dense

line, while the juxtaposed extracellular surfaces form the interperiod line visible in electron micrographs." [GOC

187 Pathogen[ P14079] interacts with 1 human partners:{P02686}

188 Pathogen[ P03410] interacts with 1 human partners:{P02686}

189 [Cluster 32]GO:0031362+C cellular\_component [name] anchored to external side of plasma membrane [def] "Tethered to the plasma membrane by a covalently attached anchor, such as a lipid group, that is embedded in the membrane, with the bulk of the gene product located on the side opposite to the side that faces the cytoplasm. When used to describe a protein, indicates that the peptide sequence does not span the membrane." [GOC

190 Pathogen[ P14079] interacts with 4 human partners:{Q4G0N0;Q9BX51;B5MD39;Q14390}

191 Pathogen[ P03410] interacts with 2 human partners:{Q4G0N0;B5MD39}

192 [Cluster 33]GO:0045263+C cellular\_component [name] proton-transporting ATP synthase complex, coupling factor F(o) [def] "All non-F1 subunits of a hydrogen-transporting ATP synthase, including integral and peripheral membrane proteins." [PMID

193 Pathogen[ Q2Q067] interacts with 1 human partners:{P24539}

194 Pathogen[ P0C214] interacts with 2 human partners:{P24539;Q99766}

195 Pathogen[ P03346] interacts with 1 human partners:{P24539}

196 Pathogen[ Q85601] interacts with 2 human partners:{P24539;Q99766}

197 Pathogen[ P14079] interacts with 7 human partners:{P56134;P56385;Q7Z4Y8;P03928;Q99766;O75964;P24539}

198 Pathogen[ P03383] interacts with 1 human partners:{P24539}

199 Pathogen[ P03410] interacts with 8 human partners:{Q99766;P56385;P03928;P24539;O75964;P18859;P56134;Q7Z4Y8}

200 Pathogen[ P14075] interacts with 3 human partners:{Q99766;P24539;P56385}

201 Pathogen[ P0C206] interacts with 3 human partners:{Q99766;P24539;P56385}

202 [Cluster 34]GO:0034663+C cellular\_component [name] endoplasmic reticulum chaperone complex [def] "A protein complex that is located in the endoplasmic reticulum and is composed of chaperone proteins, including BiP, GRP94, CaBP1, protein disulfide isomerase (PDI), ERdj3, cyclophilin B, ERp72, GRP170, UDP-glucosyltransferase, and SDF2-L1." [PMID

203 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8WU39}

204 Pathogen[ P0C214] interacts with 1 human partners:{Q8WU39}

205 Pathogen[ P03346] interacts with 1 human partners:{Q8WU39}

206 Pathogen[ P14079] interacts with 1 human partners:{Q8WU39}

207 Pathogen[ P03383] interacts with 1 human partners:{Q8WU39}

208 Pathogen[ P03410] interacts with 1 human partners:{Q8WU39}

209 Pathogen[ P14075] interacts with 1 human partners:{Q8WU39}

210 Pathogen[ P0C206] interacts with 1 human partners:{Q8WU39}

211 Pathogen[ P03363] interacts with 1 human partners:{Q8WU39}

212 [Cluster 35]GO:0031527+C cellular\_component [name] filopodium membrane [def] "The portion of the plasma membrane surrounding a filopodium." [GOC

213 Pathogen[ P03346] interacts with 2 human partners:{Q8WXH0;P26038}

214 Pathogen[ Q85601] interacts with 1 human partners:{P17677}

215 Pathogen[ P14079] interacts with 6 human partners:{P17677;O75781;P24588;P26038;P50552;Q8WXH0}

216 Pathogen[ P03410] interacts with 6 human partners:{O75781;P50552;P26038;P17677;Q8WXH0;P24588}

217 Pathogen[ P0C206] interacts with 2 human partners:{P17677;Q8WXH0}

218 [Cluster 36]GO:0097025+C cellular\_component [name] MMP7-DLG1-LIN7 complex [def] "A heterotrimeric protein complex formed by the association of MMP7, DLG1 and either LIN7A or LIN7C\_ regulates the stability and localization of DLG1 to cell junctions." [GOC

219 Pathogen[ Q2Q067] interacts with 1 human partners:{Q12959}

220 Pathogen[ P0C214] interacts with 1 human partners:{Q12959}

221 Pathogen[ P03346] interacts with 2 human partners:{Q5T2T1;Q12959}

222 Pathogen[ Q85601] interacts with 1 human partners:{Q12959}

223 Pathogen[ P14079] interacts with 1 human partners:{Q5T2T1}

224 Pathogen[ P03410] interacts with 2 human partners:{Q12959;Q5T2T1}

225 Pathogen[ P0C206] interacts with 2 human partners:{Q5T2T1;Q12959}

226 Pathogen[ P03363] interacts with 2 human partners:{Q12959;Q5T2T1}

227 [Cluster 37]GO:0005930+C cellular\_component [name] axoneme [def] "The bundle of microtubules and associated proteins that forms the core of cilia and flagella in eukaryotic cells and is responsible for their movements." [ISBN

228 Pathogen[ P0C214] interacts with 1 human partners:{O14645}

229 Pathogen[ P03346] interacts with 3 human partners:{Q96KN7;Q8N0X2;O14645}

230 Pathogen[ Q85601] interacts with 1 human partners:{O14645}

231 Pathogen[ P14079] interacts with 4 human partners:{Q8N0X2;P56715;O14645;Q96KN7}

232 Pathogen[ P03410] interacts with 4 human partners:{Q8N0X2;Q96KN7;O14645;P56715}

233 Pathogen[ P0C206] interacts with 3 human partners:{O14645;P56715;Q96KN7}

234 Pathogen[ P03363] interacts with 4 human partners:{Q8N0X2;P56715;O14645;Q96KN7}

235 [Cluster 38]GO:0034750+C cellular\_component [name] Scrib-APC-beta-catenin complex [def] "A protein complex that contains the Scribble protein (a cell polarity determinant), the tumor suppressor protein adenomatous polyposis coli (APC), and beta-catenin\_ may be involved in the control of cell proliferation." [PMID

236 Pathogen[ Q2Q067] interacts with 1 human partners:{Q14160}

237 Pathogen[ P0C214] interacts with 1 human partners:{Q14160}

238 Pathogen[ P03346] interacts with 1 human partners:{Q14160}

239 Pathogen[ Q85601] interacts with 1 human partners:{Q14160}

240 Pathogen[ P03383] interacts with 1 human partners:{Q14160}

241 Pathogen[ P03410] interacts with 1 human partners:{Q14160}

242 Pathogen[ P14075] interacts with 1 human partners:{Q14160}

243 Pathogen[ P0C206] interacts with 1 human partners:{Q14160}

244 Pathogen[ P03363] interacts with 1 human partners:{Q14160}

245 [Cluster 39]GO:0005865+C cellular\_component [name] striated muscle thin filament [def] "Filaments formed of actin and associated proteins\_ attached to Z discs at either end of sarcomeres in myofibrils." [ISBN

246 Pathogen[ P0C214] interacts with 1 human partners:{P68133}

247 Pathogen[ Q85601] interacts with 1 human partners:{P68133}

248 Pathogen[ P14079] interacts with 1 human partners:{P68133}

249 Pathogen[ P03410] interacts with 1 human partners:{P68133}

250 Pathogen[ P0C206] interacts with 1 human partners:{P68133}

251 Pathogen[ P03363] interacts with 1 human partners:{P68133}

252 [Cluster 40]GO:0032420+C cellular\_component [name] stereocilium [def] "An actin-based protrusion from the apical surface of auditory and vestibular hair cells. Bundles of stereocilia act as mechanosensory organelles." [GOC

253 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9Y6N9;Q8N1I0}

254 Pathogen[ P0C214] interacts with 3 human partners:{O00159;Q9Y6N9;Q8N1I0}

255 Pathogen[ P03346] interacts with 3 human partners:{Q9Y6N9;Q9Y664;Q8N1I0}

256 Pathogen[ Q85601] interacts with 3 human partners:{O00159;Q9Y6N9;Q8N1I0}

257 Pathogen[ P14079] interacts with 6 human partners:{Q9Y664;Q7RTU9;Q4KMQ1;Q9Y6N9;Q8N1I0;P35241}

258 Pathogen[ P03410] interacts with 7 human partners:{O00159;Q7RTU9;Q9Y6N9;P35241;Q9Y664;Q8N1I0;Q4KMQ1}

259 Pathogen[ P14075] interacts with 1 human partners:{Q4KMQ1}

260 Pathogen[ P0C206] interacts with 4 human partners:{Q9Y6N9;O00159;Q8N1I0;Q4KMQ1}

261 Pathogen[ P03363] interacts with 3 human partners:{Q9Y6N9;Q8N1I0;Q9Y664}

262 [Cluster 41]GO:0005639+C cellular\_component [name] integral to nuclear inner membrane [def] "Located such that some or all of the gene product itself penetrates at least one phospholipid bilayer of the nuclear inner membrane. May also refer to the state of being buried in the bilayer with no exposure outside the bilayer." [GOC

263 Pathogen[ Q2Q067] interacts with 1 human partners:{Q14739}

264 Pathogen[ P0C214] interacts with 1 human partners:{Q14739}

265 Pathogen[ P03346] interacts with 1 human partners:{Q14739}

266 Pathogen[ Q85601] interacts with 1 human partners:{Q14739}

267 Pathogen[ P14079] interacts with 2 human partners:{Q14739;Q8NC56}

268 Pathogen[ P03410] interacts with 2 human partners:{Q14739;Q8NC56}

269 Pathogen[ P0C206] interacts with 2 human partners:{Q14739;Q8NC56}

270 Pathogen[ P03363] interacts with 1 human partners:{Q14739}

271 [Cluster 42]GO:0005751+C cellular\_component [name] mitochondrial respiratory chain complex IV [def] "A protein complex located in the mitochondrial inner membrane that forms part of the mitochondrial respiratory chain. Contains the 13 polypeptide subunits of cytochrome c oxidase, including cytochrome a and cytochrome a3. Catalyzes the oxidation of reduced cytochrome c by dioxygen (O2)." [GOC

272 Pathogen[ P0C214] interacts with 1 human partners:{P12074}

273 Pathogen[ P14079] interacts with 4 human partners:{P12074;Q02221;Q96KJ9;O00483}

274 Pathogen[ P03410] interacts with 4 human partners:{Q96KJ9;Q02221;O00483;P12074}

275 Pathogen[ P0C206] interacts with 3 human partners:{P12074;O00483;Q02221}

276 [Cluster 43]GO:0033017+C cellular\_component [name] sarcoplasmic reticulum membrane [def] "The lipid bilayer surrounding the sarcoplasmic reticulum." [GOC

277 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BVC6}

278 Pathogen[ P0C214] interacts with 1 human partners:{Q9BVC6}

279 Pathogen[ P03346] interacts with 2 human partners:{Q8WXH0;Q9BVC6}

280 Pathogen[ P14079] interacts with 6 human partners:{Q9BVC6;P23327;O00631;Q8WXH0;Q96MG2;Q9H6F2}

281 Pathogen[ P03383] interacts with 1 human partners:{Q9BVC6}

282 Pathogen[ P03410] interacts with 6 human partners:{Q9BVC6;P23327;Q9H6F2;O00631;Q8WXH0;Q96MG2}

283 Pathogen[ P14075] interacts with 2 human partners:{Q9BVC6;P23327}

284 Pathogen[ P0C206] interacts with 3 human partners:{Q9BVC6;P23327;Q8WXH0}

285 Pathogen[ P03363] interacts with 1 human partners:{Q8IWX8}

286 [Cluster 44]GO:0016507+C cellular\_component [name] fatty acid beta-oxidation multienzyme complex [def] "A complex that includes the long-chain 3-hydroxyacyl-CoA dehydrogenase and long-chain enoyl-CoA hydratase activities in two subunits (alpha and beta), catalyzing two steps of the fatty acid beta-oxidation cycle within the mitochondrial matrix." [GOC

287 Pathogen[ P0C214] interacts with 1 human partners:{P40939}

288 [Cluster 45]GO:0030173+C cellular\_component [name] integral to Golgi membrane [def] "Located such that some or all of the gene product itself penetrates at least one phospholipid bilayer of the Golgi complex membrane. May also refer to the state of being buried in the bilayer with no exposure outside the bilayer." [GOC

289 Pathogen[ P14079] interacts with 2 human partners:{O43505;O15258}

290 Pathogen[ P03410] interacts with 3 human partners:{O15258;Q8NHY0;O43505}

291 Pathogen[ P14075] interacts with 1 human partners:{O43505}

292 Pathogen[ P0C206] interacts with 2 human partners:{O15258;O43505}

293 [Cluster 46]GO:0031074+C cellular\_component [name] nucleocytoplasmic shuttling complex [def] "Any complex that acts to move proteins or RNAs into or out of the nucleus through nuclear pores." [GOC

294 Pathogen[ Q2Q067] interacts with 1 human partners:{P37198}

295 Pathogen[ P0C214] interacts with 1 human partners:{P37198}

296 Pathogen[ P03346] interacts with 1 human partners:{P37198}

297 Pathogen[ P14079] interacts with 1 human partners:{P37198}

298 Pathogen[ P03383] interacts with 1 human partners:{P37198}

299 Pathogen[ P14075] interacts with 1 human partners:{P37198}

300 Pathogen[ P03363] interacts with 1 human partners:{P37198}

301 [Cluster 47]GO:0042589+C cellular\_component [name] zymogen granule membrane [def] "The lipid bilayer surrounding a zymogen granule." [GOC

302 Pathogen[ P03346] interacts with 2 human partners:{P49755;Q15363}

303 Pathogen[ P14079] interacts with 2 human partners:{Q15363;P49755}

304 Pathogen[ P03410] interacts with 1 human partners:{Q15363}

305 Pathogen[ P0C206] interacts with 2 human partners:{P49755;Q15363}

306 [Cluster 48]GO:0071986+C cellular\_component [name] Regulator complex [def] "A protein complex that contains MAPKSP1 (MP1, Map2klip1), ROBLD3 (p14, Mapbbip), and C11orf59 (p18). The complex is anchored to lipid rafts in late endosome membranes via C11orf59, recruits mTORC1 to lysosomal membranes in amino acid signaling to mTORC1, and is also involved in ERK/MAPK signaling." [PMID

307 Pathogen[ Q2Q067] interacts with 1 human partners:{O43504}

308 Pathogen[ P0C214] interacts with 1 human partners:{O43504}

309 Pathogen[ P03346] interacts with 1 human partners:{O43504}

310 Pathogen[ P14079] interacts with 5 human partners:{Q9Y2Q5;Q9UHA4;Q0VGL1;Q6IAA8;O43504}

311 Pathogen[ P03383] interacts with 1 human partners:{O43504}

312 Pathogen[ P03410] interacts with 5 human partners:{Q9Y2Q5;O43504;Q9UHA4;Q6IAA8;Q0VGL1}

313 Pathogen[ P14075] interacts with 1 human partners:{O43504}

314 Pathogen[ P0C206] interacts with 2 human partners:{Q9UHA4;O43504}

315 Pathogen[ P03363] interacts with 1 human partners:{O43504}

316 [Cluster 49]GO:0001917+C cellular\_component [name] photoreceptor inner segment [def] "The inner segment of a vertebrate photoreceptor containing mitochondria, ribosomes and membranes where opsin molecules are assembled and passed to be part of the outer segment discs." [GOC

317 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9Y6N9}

318 Pathogen[ P0C214] interacts with 2 human partners:{Q9Y6N9;P09104}

319 Pathogen[ P03346] interacts with 2 human partners:{Q9Y6N9;P0C7Q2}

320 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y6N9}

321 Pathogen[ P14079] interacts with 3 human partners:{P56715;Q9Y6N9;P0C7Q2}

322 Pathogen[ P03410] interacts with 3 human partners:{Q9Y6N9;P0C7Q2;P56715}

323 Pathogen[ P0C206] interacts with 2 human partners:{P56715;Q9Y6N9}

324 Pathogen[ P03363] interacts with 3 human partners:{Q9Y6N9;P56715;Q9NZN9}

325 [Cluster 50]GO:0035749+C cellular\_component [name] myelin sheath adaxonal region [def] "The region of the myelin sheath nearest to the axon." [GOC

326 Pathogen[ P03346] interacts with 1 human partners:{Q8N3R9}

327 Pathogen[ P14079] interacts with 1 human partners:{Q8N3R9}

328 Pathogen[ P03410] interacts with 1 human partners:{Q8N3R9}

329 Pathogen[ P0C206] interacts with 1 human partners:{Q8N3R9}

330 Pathogen[ P03363] interacts with 1 human partners:{Q8N3R9}

331 [Cluster 51]GO:0002177+C cellular\_component [name] manchette [def] "A conical shaped array of microtubules that completely covers the nucleus of a spermatid, thought to be involved in sperm head elongation." [PMID

332 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8NCR6}

333 Pathogen[ P0C214] interacts with 1 human partners:{Q8NCR6}

334 Pathogen[ P03346] interacts with 1 human partners:{Q8NCR6}

335 Pathogen[ P14079] interacts with 2 human partners:{Q7Z4L9;Q8NCR6}

336 Pathogen[ P03383] interacts with 1 human partners:{Q8NCR6}

337 Pathogen[ P03410] interacts with 2 human partners:{Q8NCR6;Q7Z4L9}

338 Pathogen[ P14075] interacts with 1 human partners:{Q8NCR6}

339 Pathogen[ P0C206] interacts with 1 human partners:{Q8NCR6}

340 Pathogen[ P03363] interacts with 1 human partners:{Q8NCR6}

341 [Cluster 52]GO:0000110+C cellular\_component [name] nucleotide-excision repair factor 1 complex [def] "One of several protein complexes involved in nucleotide-excision repair\_ possesses DNA damage recognition and endodeoxynuclease activities. In *S. cerevisiae*, it is composed of Rad1p, Rad10p, and Rad14p\_ in human the subunits are ERCC4/XPF, ERCC1 and XPA, respectively." [PMID

342 Pathogen[ Q2Q067] interacts with 1 human partners:{Q92889}

343 Pathogen[ P0C214] interacts with 1 human partners:{Q92889}

344 Pathogen[ P03346] interacts with 1 human partners:{Q92889}

345 Pathogen[ Q85601] interacts with 1 human partners:{Q92889}

346 Pathogen[ P14079] interacts with 1 human partners:{Q92889}

347 Pathogen[ P03410] interacts with 1 human partners:{Q92889}

348 Pathogen[ P0C206] interacts with 1 human partners:{Q92889}

349 Pathogen[ P03363] interacts with 1 human partners:{Q92889}



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350 [Cluster 53]GO:0043202+C    cellular_component [name] lysosomal lumen [def] "The volume
enclosed within the lysosomal membrane." [GOC
351     Pathogen[ Q2Q067] interacts with 1 human partners:{Q8WWR8}
352     Pathogen[ P0C214] interacts with 2 human partners:{Q8WWR8;P16278}
353     Pathogen[ P03346] interacts with 2 human partners:{P16278;Q8WWR8}
354     Pathogen[ P14079] interacts with 9 human
partners:{O14773;P16278;P54802;P35475;P06280;P54803;Q13510;Q8WWR8;P17405}
355     Pathogen[ P03383] interacts with 1 human partners:{Q8WWR8}
356     Pathogen[ P03410] interacts with 6 human
partners:{P54803;P54802;P16278;Q13510;P17405;Q8WWR8}
357     Pathogen[ P14075] interacts with 2 human partners:{Q8WWR8;Q13510}
358     Pathogen[ P0C206] interacts with 2 human partners:{Q8WWR8;P16278}
359 [Cluster 54]GO:0000786+C    cellular_component [name] nucleosome [def] "A complex
comprised of DNA wound around a multisubunit core and associated proteins, which forms
the primary packing unit of DNA into higher order structures." [GOC
360     Pathogen[ Q2Q067] interacts with 1 human partners:{P49450}
361     Pathogen[ P0C214] interacts with 1 human partners:{P49450}
362     Pathogen[ P03346] interacts with 5 human
partners:{Q8WYB5;Q92794;Q16695;P10412;P49450}
363     Pathogen[ Q85601] interacts with 1 human partners:{P49450}
364     Pathogen[ P14079] interacts with 4 human partners:{P10412;Q8IZA3;P49450;P07305}
365     Pathogen[ P03410] interacts with 3 human partners:{P10412;P04553;P49450}
366     Pathogen[ P0C206] interacts with 2 human partners:{P49450;P10412}
367     Pathogen[ P03363] interacts with 4 human partners:{Q8IZA3;Q16695;P49450;P10412}
368 [Cluster 55]GO:0032437+C    cellular_component [name] cuticular plate [def] "A dense
network of actin filaments found beneath the apical cell surface of hair cells, and into
which stereocilia are inserted." [PMID
369     Pathogen[ Q2Q067] interacts with 1 human partners:{Q01082}
370     Pathogen[ P0C214] interacts with 1 human partners:{Q01082}
371     Pathogen[ P03346] interacts with 3 human partners:{P02549;Q13813;Q01082}
372     Pathogen[ Q85601] interacts with 1 human partners:{Q01082}
373     Pathogen[ P14079] interacts with 4 human partners:{Q01082;A6PVL3;Q13813;P02549}
374     Pathogen[ P03410] interacts with 4 human partners:{A6PVL3;P02549;Q01082;Q13813}
375     Pathogen[ P0C206] interacts with 1 human partners:{Q01082}
376     Pathogen[ P03363] interacts with 3 human partners:{P02549;Q01082;Q13813}
377 [Cluster 56]GO:0016013+C    cellular_component [name] syntrophin complex [def] "A
protein complex that includes alpha-, beta1-, beta2-syntrophins and syntrophin-like
proteins_ the syntrophin complex binds to the second half of the carboxy-terminal domain
of dystrophin_ also associates with neuronal nitric oxide synthase." [http
378     Pathogen[ P14079] interacts with 1 human partners:{Q9NSN8}
379     Pathogen[ P03363] interacts with 1 human partners:{Q9NSN8}
380 [Cluster 57]GO:0019031+C    cellular_component [name] viral envelope [def] "The lipid
bilayer and associated glycoproteins that surround many types of virus particle." [ISBN
381     Pathogen[ P0C214] interacts with 2 human partners:{Q14264;P60608}
382     Pathogen[ P03346] interacts with 2 human partners:{P60608;Q14264}
383     Pathogen[ Q85601] interacts with 2 human partners:{P60608;Q14264}
384     Pathogen[ P14079] interacts with 15 human
partners:{P61570;Q9UKH3;Q902F9;Q14264;Q9H9K5;O71037;P60608;Q69384;Q9NX77;Q9HDB8;O4204
3;Q902F8;P61567;P61568;P61566}
385     Pathogen[ P03383] interacts with 2 human partners:{P60608;Q14264}
386     Pathogen[ P03410] interacts with 18 human
partners:{O71037;P60608;P61565;Q9HDB8;Q9UKH3;Q9NX77;Q69384;P61568;P61567;Q902F9;Q1426
4;Q9H9K5;Q902F8;P61570;P61566;O42043;P63135;Q9N2J8}
387     Pathogen[ P14075] interacts with 2 human partners:{Q14264;P60608}
388     Pathogen[ P0C206] interacts with 9 human
partners:{Q69384;Q9HDB8;P61568;P60608;Q9UKH3;P61570;P61565;Q14264;Q902F8}
389     Pathogen[ P03363] interacts with 1 human partners:{Q14264}
390 [Cluster 58]GO:0034361+C    cellular_component [name] very-low-density lipoprotein
particle [def] "A triglyceride-rich lipoprotein particle that is typically composed of
APOB100, APOE and APOCs and has a density of about 1.006 g/ml and a diameter of between
20-80 nm. It is found in blood and transports endogenous products (newly synthesized
cholesterol and triglycerides) from the liver." [GOC
391     Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BQE4}
392     Pathogen[ P0C214] interacts with 1 human partners:{Q9BQE4}
393     Pathogen[ Q85601] interacts with 1 human partners:{Q9BQE4}
394     Pathogen[ P14079] interacts with 2 human partners:{Q9BQE4;Q0VD83}
395     Pathogen[ P03383] interacts with 1 human partners:{Q9BQE4}
396     Pathogen[ P03410] interacts with 2 human partners:{Q9BQE4;Q0VD83}
397     Pathogen[ P14075] interacts with 1 human partners:{Q9BQE4}
398     Pathogen[ P0C206] interacts with 1 human partners:{Q9BQE4}
399 [Cluster 59]GO:0000220+C    cellular_component [name] vacuolar proton-transporting
V-type ATPase, V0 domain [def] "The V0 domain of a proton-transporting V-type ATPase
found in the vacuolar membrane." [GOC
400     Pathogen[ P03346] interacts with 1 human partners:{Q93050}
401     Pathogen[ Q85601] interacts with 1 human partners:{Q93050}
402     Pathogen[ P14079] interacts with 1 human partners:{Q93050}

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403 Pathogen[ P03410] interacts with 1 human partners:{Q93050}

404 Pathogen[ P0C206] interacts with 1 human partners:{Q93050}

405 [Cluster 60]GO:0000275+C cellular\_component [name] mitochondrial proton-transporting ATP synthase complex, catalytic core F(1) [def] "The catalytic sector of the mitochondrial hydrogen-transporting ATP synthase\_ it comprises the catalytic core and central stalk, and is peripherally associated with the mitochondrial inner membrane when the entire ATP synthase is assembled." [GOC

406 Pathogen[ P0C214] interacts with 1 human partners:{P36542}

407 Pathogen[ P14079] interacts with 4 human partners:{P36542;P25705;Q5VTU8;P56381}

408 Pathogen[ P03410] interacts with 4 human partners:{P36542;P25705;P56381;Q5VTU8}

409 Pathogen[ P0C206] interacts with 2 human partners:{P36542;P56381}

410 [Cluster 61]GO:0043159+C cellular\_component [name] acrosomal matrix [def] "A structural framework, or 'dense core' at the interior of an acrosome. May regulate the distribution of hydrolases within the acrosome and their release during the acrosome reaction." [GOC

411 Pathogen[ P0C214] interacts with 1 human partners:{P09622}

412 Pathogen[ P14079] interacts with 1 human partners:{P35663}

413 Pathogen[ P03410] interacts with 1 human partners:{P35663}

414 Pathogen[ P0C206] interacts with 1 human partners:{P35663}

415 Pathogen[ P03363] interacts with 1 human partners:{P35663}

416 [Cluster 62]GO:0043229+C cellular\_component [name] intracellular organelle [def] "Organized structure of distinctive morphology and function, occurring within the cell. Includes the nucleus, mitochondria, plastids, vacuoles, vesicles, ribosomes and the cytoskeleton. Excludes the plasma membrane." [GOC

417 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BZR8}

418 Pathogen[ P0C214] interacts with 1 human partners:{Q9BZR8}

419 Pathogen[ P03346] interacts with 1 human partners:{Q9BZR8}

420 Pathogen[ Q85601] interacts with 1 human partners:{Q9BZR8}

421 Pathogen[ P14079] interacts with 1 human partners:{Q9BZR8}

422 Pathogen[ P03410] interacts with 1 human partners:{Q9BZR8}

423 Pathogen[ P0C206] interacts with 1 human partners:{Q9BZR8}

424 Pathogen[ P03363] interacts with 1 human partners:{Q9BZR8}

425 [Cluster 63]GO:0033268+C cellular\_component [name] node of Ranvier [def] "An axon part that is a gap in the myelin where voltage-gated sodium channels cluster and saltatory conduction is executed." [GOC

426 Pathogen[ Q2Q067] interacts with 1 human partners:{Q12959}

427 Pathogen[ P0C214] interacts with 1 human partners:{Q12959}

428 Pathogen[ P03346] interacts with 1 human partners:{Q12959}

429 Pathogen[ Q85601] interacts with 1 human partners:{Q12959}

430 Pathogen[ P14079] interacts with 1 human partners:{Q14118}

431 Pathogen[ P03410] interacts with 2 human partners:{Q12959;Q14118}

432 Pathogen[ P0C206] interacts with 1 human partners:{Q12959}

433 Pathogen[ P03363] interacts with 1 human partners:{Q12959}

434 [Cluster 64]GO:0005960+C cellular\_component [name] glycine cleavage complex [def] "A protein complex that catalyzes the reversible oxidation of glycine. In E. coli, it has four components

435 Pathogen[ P14079] interacts with 2 human partners:{P23434;Q9NX38}

436 Pathogen[ P03410] interacts with 2 human partners:{Q9NX38;P23434}

437 Pathogen[ P0C206] interacts with 1 human partners:{P23434}

438 [Cluster 65]GO:0045252+C cellular\_component [name] oxoglutarate dehydrogenase complex [def] "A complex of multiple copies of three enzymatic components

439 Pathogen[ P0C214] interacts with 2 human partners:{P09622;P36957}

440 [Cluster 66]GO:0097228+C

441 Pathogen[ P14079] interacts with 1 human partners:{Q5JQC9}

442 Pathogen[ P03410] interacts with 1 human partners:{Q5JQC9}

443 Pathogen[ P0C206] interacts with 1 human partners:{Q5JQC9}

444 [Cluster 67]GO:0044429+C cellular\_component [name] mitochondrial part [def] "Any constituent part of a mitochondrion, a semiautonomous, self replicating organelle that occurs in varying numbers, shapes, and sizes in the cytoplasm of virtually all eukaryotic cells. It is notably the site of tissue respiration." [GOC

445 Pathogen[ P03346] interacts with 2 human partners:{Q8WXH0;Q12778}

446 Pathogen[ P14079] interacts with 1 human partners:{Q8WXH0}

447 Pathogen[ P03410] interacts with 1 human partners:{Q8WXH0}

448 Pathogen[ P0C206] interacts with 1 human partners:{Q8WXH0}

449 [Cluster 68]GO:0031941+C cellular\_component [name] filamentous actin [def] "A two-stranded helical polymer of the protein actin." [GOC

450 Pathogen[ P0C214] interacts with 3 human partners:{O00159;Q9UM54;P63261}

451 Pathogen[ P03346] interacts with 2 human partners:{Q96AC1;Q9Y5K6}

452 Pathogen[ Q85601] interacts with 4 human partners:{Q9Y5K6;O00159;P63261;Q9UM54}

453 Pathogen[ P14079] interacts with 4 human partners:{P63261;Q9UM54;Q96AC1;Q9Y5K6}

454 Pathogen[ P03410] interacts with 4 human partners:{O00159;Q9Y5K6;Q9UM54;P63261}

455 Pathogen[ P0C206] interacts with 4 human partners:{Q9UM54;O00159;P63261;Q9Y5K6}

456 Pathogen[ P03363] interacts with 3 human partners:{P63261;Q96AC1;Q9Y5K6}

457 [Cluster 69]GO:0032937+C cellular\_component [name] SREBP-SCAP-Insig complex [def] "A protein complex formed by the association of sterol regulatory element binding protein (SREBP), SREBP-cleavage-activating protein (SCAP), and an Insig protein (Insig-1 or

Insig-2) the ER membrane." [PMID  
458 Pathogen[ P03346] interacts with 1 human partners:{Q12772}  
459 Pathogen[ Q85601] interacts with 1 human partners:{Q12772}  
460 Pathogen[ P14079] interacts with 3 human partners:{Q9Y5U4;Q12772;O15503}  
461 Pathogen[ P03410] interacts with 3 human partners:{Q9Y5U4;Q12772;O15503}  
462 Pathogen[ POC206] interacts with 1 human partners:{Q12772}  
463 [Cluster 70]GO:0032279+C cellular\_component [name] asymmetric synapse [def] "A type of synapse occurring between an axon and a dendritic spine or dendritic shaft. Asymmetric synapses, the most abundant synapse type in the central nervous system, involve axons that contain predominantly spherical vesicles and contain a thickened postsynaptic density." [GOC  
464 Pathogen[ P03346] interacts with 1 human partners:{Q9Y6D5}  
465 Pathogen[ P14079] interacts with 2 human partners:{P24588;Q9Y6D5}  
466 Pathogen[ P03410] interacts with 2 human partners:{Q9Y6D5;P24588}  
467 Pathogen[ POC206] interacts with 1 human partners:{Q9Y6D5}  
468 [Cluster 71]GO:0031436+C cellular\_component [name] BRCA1-BARD1 complex [def] "A heterodimeric complex comprising BRCA1 and BARD1, which possesses ubiquitin ligase activity and is involved in genome maintenance, possibly by functioning in surveillance for DNA damage." [PMID  
469 Pathogen[ Q2Q067] interacts with 1 human partners:{Q99728}  
470 Pathogen[ POC214] interacts with 1 human partners:{Q99728}  
471 Pathogen[ P03346] interacts with 1 human partners:{Q99728}  
472 Pathogen[ Q85601] interacts with 1 human partners:{Q99728}  
473 Pathogen[ POC206] interacts with 1 human partners:{Q99728}  
474 Pathogen[ P03363] interacts with 1 human partners:{Q99728}  
475 [Cluster 72]GO:0072557+C cellular\_component [name] IPAF inflammasome complex [def] "A protein complex that consists of three components, IPAF, NAIP and caspase-1, and includes among its functions the sensing of flagellin derived from Legionella pneumophila, Salmonella typhimurium, Pseudomonas aeruginosa and Shigella flexneri." [GOC  
476 Pathogen[ POC214] interacts with 1 human partners:{Q9NPP4}  
477 Pathogen[ P03346] interacts with 1 human partners:{Q9NPP4}  
478 Pathogen[ P14079] interacts with 1 human partners:{Q9NPP4}  
479 Pathogen[ P03410] interacts with 1 human partners:{Q9NPP4}  
480 Pathogen[ P03363] interacts with 1 human partners:{Q9NPP4}  
481 [Cluster 73]GO:0005775+C cellular\_component [name] vacuolar lumen [def] "The volume enclosed within the vacuolar membrane." [ISBN  
482 Pathogen[ P14079] interacts with 1 human partners:{O75503}  
483 Pathogen[ P03410] interacts with 1 human partners:{O75503}  
484 [Cluster 74]GO:0042599+C cellular\_component [name] lamellar body [def] "A membrane-bounded organelle, specialized for the storage and secretion various substances (surfactant phospholipids, glycoproteins and acid phosphates) which are arranged in the form of tightly packed, concentric, membrane sheets or lamellae. Has some similar properties to, but is distinct from, a lysosome." [GOC  
485 Pathogen[ P14079] interacts with 2 human partners:{P11686;P17405}  
486 Pathogen[ P03410] interacts with 2 human partners:{P11686;P17405}  
487 [Cluster 75]GO:0009331+C cellular\_component [name] glycerol-3-phosphate dehydrogenase complex [def] "An enzyme complex that catalyzes the dehydrogenation of sn-glycerol 3-phosphate to form glycerone phosphate." [EC  
488 Pathogen[ POC214] interacts with 2 human partners:{Q8N335;P21695}  
489 Pathogen[ P14079] interacts with 1 human partners:{P21695}  
490 Pathogen[ P03410] interacts with 1 human partners:{P21695}  
491 [Cluster 76]GO:0019035+C cellular\_component [name] viral integration complex [def] "Virus-specific complex of protein required for integrating viral genomes into the host genome." [ISBN  
492 Pathogen[ Q2Q067] interacts with 1 human partners:{P11388}  
493 Pathogen[ POC214] interacts with 1 human partners:{P11388}  
494 Pathogen[ P03346] interacts with 1 human partners:{P11388}  
495 Pathogen[ Q85601] interacts with 1 human partners:{P11388}  
496 Pathogen[ P14079] interacts with 1 human partners:{P11388}  
497 Pathogen[ P03410] interacts with 1 human partners:{P11388}  
498 Pathogen[ POC206] interacts with 1 human partners:{P11388}  
499 [Cluster 77]GO:0097197+C cellular\_component [name] tetraspanin-enriched microdomain [def] "A pre-organized unit composed either of adhesion molecules (mainly integrins and members of the Ig superfamily), signaling receptors and/or enzyme-enriched plasma membrane domains that compartmentalizes cellular processes. Tetraspanin-enriched microdomains might be specially suited for the regulation of avidity of adhesion receptors and the compartmentalization of enzymatic activities." [GOC  
500 Pathogen[ P03346] interacts with 1 human partners:{Q6UWF3}  
501 Pathogen[ P14079] interacts with 1 human partners:{Q6UWF3}  
502 Pathogen[ P03383] interacts with 1 human partners:{Q6UWF3}  
503 Pathogen[ P03410] interacts with 1 human partners:{Q6UWF3}  
504 Pathogen[ P14075] interacts with 1 human partners:{Q6UWF3}  
505 Pathogen[ POC206] interacts with 1 human partners:{Q6UWF3}  
506 Pathogen[ P03363] interacts with 1 human partners:{Q6UWF3}  
507 [Cluster 78]GO:0033162+C cellular\_component [name] melanosome membrane [def] "The lipid bilayer surrounding a melanosome." [GOC

508 Pathogen[ Q2Q067] interacts with 1 human partners:{Q96EV8}

509 Pathogen[ P0C214] interacts with 1 human partners:{Q96EV8}

510 Pathogen[ P03346] interacts with 1 human partners:{Q96EV8}

511 Pathogen[ Q85601] interacts with 1 human partners:{Q96EV8}

512 Pathogen[ P14079] interacts with 1 human partners:{Q96EV8}

513 Pathogen[ P03383] interacts with 1 human partners:{Q96EV8}

514 Pathogen[ P03410] interacts with 1 human partners:{Q96EV8}

515 Pathogen[ P14075] interacts with 1 human partners:{Q96EV8}

516 Pathogen[ P0C206] interacts with 1 human partners:{Q96EV8}

517 [Cluster 79]GO:0022624+C cellular\_component [name] proteasome accessory complex [def] "A protein complex, that caps one or both ends of the proteasome core complex and regulates entry into, or exit from, the proteasome core complex." [GOC]

518 Pathogen[ Q2Q067] interacts with 9 human partners:{Q99460;P48556;P55036;O00231;Q13200;Q9UNM6;Q16401;O00232;O43242}

519 Pathogen[ P0C214] interacts with 12 human partners:{P55036;O43242;P48556;Q13200;O00232;Q99460;Q9UNM6;O00231;P35998;Q15008;Q16401;P17980}

520 Pathogen[ P03346] interacts with 9 human partners:{P55036;Q99460;Q16401;O00232;O00231;Q9UNM6;Q13200;P48556;O43242}

521 Pathogen[ Q85601] interacts with 7 human partners:{Q9UNM6;P55036;Q13200;Q99460;O00231;P48556;Q16401}

522 Pathogen[ P14079] interacts with 15 human partners:{P62333;P48556;P55036;O00232;O00487;P35998;Q9UNM6;Q99460;P62191;Q15008;P43686;O43242;O00231;Q16401;P17980}

523 Pathogen[ P03383] interacts with 7 human partners:{P55036;Q9UNM6;Q99460;Q13200;Q16401;O00231;P48556}

524 Pathogen[ P03410] interacts with 12 human partners:{P55036;Q15008;Q16401;P35998;Q99460;O00232;P48556;Q13200;O00231;Q9UNM6;O43242;P17980}

525 Pathogen[ P14075] interacts with 6 human partners:{P55036;Q13200;P48556;Q16401;O00231;Q9UNM6}

526 Pathogen[ P0C206] interacts with 9 human partners:{Q9UNM6;P55036;O00232;O43242;Q13200;Q99460;P48556;Q16401;O00231}

527 [Cluster 80]GO:0042643+C cellular\_component [name] actomyosin, actin part [def] "The actin part of any complex of actin, myosin, and accessory proteins." [GOC]

528 Pathogen[ P14079] interacts with 1 human partners:{P68032}

529 [Cluster 81]GO:0044425+C cellular\_component [name] membrane part [def] "Any constituent part of a membrane, a double layer of lipid molecules that encloses all cells, and, in eukaryotes, many organelles\_ may be a single or double lipid bilayer\_ also includes associated proteins." [GOC]

530 Pathogen[ P03346] interacts with 1 human partners:{Q6UWF3}

531 Pathogen[ P14079] interacts with 1 human partners:{Q6UWF3}

532 Pathogen[ P03383] interacts with 1 human partners:{Q6UWF3}

533 Pathogen[ P03410] interacts with 1 human partners:{Q6UWF3}

534 Pathogen[ P14075] interacts with 1 human partners:{Q6UWF3}

535 Pathogen[ P0C206] interacts with 1 human partners:{Q6UWF3}

536 Pathogen[ P03363] interacts with 1 human partners:{Q6UWF3}

537 [Cluster 82]GO:0035861+C cellular\_component [name] site of double-strand break [def] "A region of a chromosome at which a DNA double-strand break has occurred. DNA damage signaling and repair proteins accumulate at the lesion to respond to the damage and repair the DNA to form a continuous DNA helix." [GOC]

538 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9H4L7;O76064}

539 Pathogen[ P0C214] interacts with 4 human partners:{Q9H4L7;Q8IYW5;O76064;P55072}

540 Pathogen[ P03346] interacts with 4 human partners:{O76064;P55072;Q8IYW5;Q9H4L7}

541 Pathogen[ Q85601] interacts with 3 human partners:{O76064;Q9H4L7;Q8IYW5}

542 Pathogen[ P14079] interacts with 1 human partners:{Q9H4L7}

543 Pathogen[ P03410] interacts with 1 human partners:{Q9H4L7}

544 Pathogen[ P0C206] interacts with 4 human partners:{Q9H4L7;Q8IYW5;P55072;O76064}

545 Pathogen[ P03363] interacts with 2 human partners:{Q9H4L7;Q8IYW5}

546 [Cluster 83]GO:0030061+C cellular\_component [name] mitochondrial crista [def] "Any of the inward folds of the mitochondrial inner membrane. Their number, extent, and shape differ in mitochondria from different tissues and organisms. They appear to be devices for increasing the surface area of the mitochondrial inner membrane, where the enzymes of electron transport and oxidative phosphorylation are found. Their shape can vary with the respiratory state of the mitochondria." [ISBN]

547 Pathogen[ P14079] interacts with 2 human partners:{P10109;Q6YFQ2}

548 Pathogen[ P03410] interacts with 2 human partners:{Q6YFQ2;P10109}

549 [Cluster 84]GO:0043220+C cellular\_component [name] Schmidt-Lanterman incisure [def] "Regions within compact myelin in which the cytoplasmic faces of the enveloping myelin sheath are not tightly juxtaposed, and include cytoplasm from the cell responsible for making the myelin. Schmidt-Lanterman incisures occur in the compact myelin internode, while lateral loops are analogous structures found in the paranodal region adjacent to the nodes of Ranvier." [GOC]

550 Pathogen[ P03346] interacts with 2 human partners:{O75970;Q8N3R9}

551 Pathogen[ P14079] interacts with 2 human partners:{Q8N3R9;O75970}

552 Pathogen[ P03410] interacts with 2 human partners:{O75970;Q8N3R9}

553 Pathogen[ P0C206] interacts with 1 human partners:{Q8N3R9}

554 Pathogen[ P03363] interacts with 2 human partners:{O75970;Q8N3R9}

555 [Cluster 85]GO:0008352+C cellular\_component [name] katanin complex [def] "A complex possessing an activity that couples ATP hydrolysis to the severing of microtubules\_ usually a heterodimer comprising a catalytic subunit (often 60kDa) and a regulatory subunit (often 80 kDa)." [PMID

556 Pathogen[ Q85601] interacts with 1 human partners:{Q9BVA0}

557 Pathogen[ P14079] interacts with 1 human partners:{Q9BVA0}

558 Pathogen[ P03410] interacts with 1 human partners:{Q9BVA0}

559 Pathogen[ P0C206] interacts with 1 human partners:{Q9BVA0}

560 [Cluster 86]GO:0032116+C cellular\_component [name] SMC loading complex [def] "A protein complex required for the loading of a structural maintenance of chromosome (SMC) complex, such as cohesin, condensin or SMC5/SMC6, onto DNA. Appears to be eukaryotically conserved." [GOC

561 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9Y6X3}

562 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y6X3}

563 Pathogen[ P03346] interacts with 1 human partners:{Q9Y6X3}

564 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y6X3}

565 Pathogen[ P14079] interacts with 1 human partners:{Q9Y6X3}

566 Pathogen[ P03383] interacts with 1 human partners:{Q9Y6X3}

567 Pathogen[ P14075] interacts with 1 human partners:{Q9Y6X3}

568 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y6X3}

569 Pathogen[ P03363] interacts with 1 human partners:{Q9Y6X3}

570 [Cluster 87]GO:0042824+C cellular\_component [name] MHC class I peptide loading complex [def] "A large, multisubunit complex which consists of the MHC class I-beta 2 microglobulin dimer, the transporter associated with antigen presentation (TAP), tapasin (an MHC-encoded membrane protein), the chaperone calreticulin and the thiol oxidoreductase ERp57. Functions in the assembly of peptides with newly synthesized MHC class I molecules." [GOC

571 Pathogen[ Q2Q067] interacts with 1 human partners:{P27797}

572 Pathogen[ P0C214] interacts with 1 human partners:{P27797}

573 Pathogen[ P03346] interacts with 1 human partners:{P27797}

574 Pathogen[ Q85601] interacts with 1 human partners:{P27797}

575 Pathogen[ P03383] interacts with 1 human partners:{P27797}

576 Pathogen[ P03410] interacts with 1 human partners:{P27797}

577 Pathogen[ P14075] interacts with 1 human partners:{P27797}

578 Pathogen[ P0C206] interacts with 1 human partners:{P27797}

579 Pathogen[ P03363] interacts with 1 human partners:{P27797}

580 [Cluster 88]GO:0008305+C cellular\_component [name] integrin complex [def] "A protein complex that is composed of one alpha subunit and one beta subunit, both of which are members of the integrin superfamily of cell adhesion receptors\_ the complex spans the plasma membrane and binds to extracellular matrix ligands, cell-surface ligands, and soluble ligands." [PMID

581 Pathogen[ Q2Q067] interacts with 1 human partners:{P35579}

582 Pathogen[ P03346] interacts with 1 human partners:{P35579}

583 Pathogen[ Q85601] interacts with 1 human partners:{P35579}

584 Pathogen[ P14079] interacts with 1 human partners:{P35579}

585 Pathogen[ P03383] interacts with 1 human partners:{P35579}

586 Pathogen[ P03410] interacts with 1 human partners:{P35579}

587 Pathogen[ P14075] interacts with 1 human partners:{P35579}

588 Pathogen[ P0C206] interacts with 1 human partners:{P35579}

589 Pathogen[ P03363] interacts with 1 human partners:{P35579}

590 [Cluster 89]GO:0097227+C

591 Pathogen[ P03363] interacts with 1 human partners:{Q8IYM1}

592 [Cluster 90]GO:0016600+C cellular\_component [name] flotillin complex [def] "A protein complex that contains flotillin-1 and flotillin-2, and may contain associated proteins. Flotillins associate into membrane microdomains resembling caveolae." [PMID

593 Pathogen[ Q2Q067] interacts with 1 human partners:{P22681}

594 Pathogen[ P0C214] interacts with 1 human partners:{P22681}

595 Pathogen[ P03346] interacts with 1 human partners:{P22681}

596 Pathogen[ Q85601] interacts with 1 human partners:{P22681}

597 Pathogen[ P0C206] interacts with 1 human partners:{P22681}

598 Pathogen[ P03363] interacts with 1 human partners:{P22681}

599 [Cluster 91]GO:0000778+C cellular\_component [name] condensed nuclear chromosome kinetochore [def] "A multisubunit complex that is located at the centromeric region of a condensed chromosome in the nucleus and provides an attachment point for the spindle microtubules." [GOC

600 Pathogen[ Q2Q067] interacts with 1 human partners:{P49450}

601 Pathogen[ P0C214] interacts with 1 human partners:{P49450}

602 Pathogen[ P03346] interacts with 1 human partners:{P49450}

603 Pathogen[ Q85601] interacts with 1 human partners:{P49450}

604 Pathogen[ P14079] interacts with 1 human partners:{P49450}

605 Pathogen[ P03410] interacts with 1 human partners:{P49450}

606 Pathogen[ P0C206] interacts with 1 human partners:{P49450}

607 Pathogen[ P03363] interacts with 1 human partners:{P49450}

608 [Cluster 92]GO:0031021+C cellular\_component [name] interphase microtubule organizing

center [def] "A microtubule organizing center found in interphase cells, which organize a longitudinal array of three to five MT bundles from the nuclear envelope during interphase. Each MT bundle is composed of two to seven MTs arranged in an antiparallel configuration, with the dynamic MT plus ends extending toward the cell tips and stable minus ends near the nucleus." [PMID

609 Pathogen[ Q2Q067] interacts with 1 human partners:{O15392}

610 Pathogen[ P0C214] interacts with 1 human partners:{O15392}

611 Pathogen[ P03346] interacts with 1 human partners:{O15392}

612 Pathogen[ Q85601] interacts with 1 human partners:{O15392}

613 Pathogen[ P14079] interacts with 1 human partners:{O15392}

614 Pathogen[ P03410] interacts with 1 human partners:{O15392}

615 Pathogen[ P0C206] interacts with 1 human partners:{O15392}

616 [Cluster 93]GO:0031588+C cellular\_component [name] AMP-activated protein kinase complex [def] "A protein complex that possesses AMP-dependent protein kinase activity." [GOC

617 Pathogen[ P14079] interacts with 1 human partners:{Q9Y478}

618 [Cluster 94]GO:0016461+C cellular\_component [name] unconventional myosin complex [def] "A portmanteau term for myosins other than myosin II." [GOC

619 Pathogen[ Q2Q067] interacts with 1 human partners:{P60660}

620 Pathogen[ P0C214] interacts with 4 human partners:{O00159;Q9UM54;P14649;P60660}

621 Pathogen[ P03346] interacts with 2 human partners:{P60660;P14649}

622 Pathogen[ Q85601] interacts with 4 human partners:{P14649;O00159;Q9UM54;P60660}

623 Pathogen[ P14079] interacts with 3 human partners:{Q9UM54;P14649;P60660}

624 Pathogen[ P03410] interacts with 4 human partners:{O00159;Q9UM54;P14649;P60660}

625 Pathogen[ P0C206] interacts with 4 human partners:{Q9UM54;P60660;P14649;O00159}

626 Pathogen[ P03363] interacts with 2 human partners:{P14649;P60660}

627 [Cluster 95]GO:0000276+C cellular\_component [name] mitochondrial proton-transporting ATP synthase complex, coupling factor F(o) [def] "All non-F1 subunits of the mitochondrial hydrogen-transporting ATP synthase, including integral and peripheral mitochondrial inner membrane proteins." [GOC

628 Pathogen[ Q2Q067] interacts with 1 human partners:{P24539}

629 Pathogen[ P0C214] interacts with 1 human partners:{P24539}

630 Pathogen[ P03346] interacts with 1 human partners:{P24539}

631 Pathogen[ Q85601] interacts with 1 human partners:{P24539}

632 Pathogen[ P14079] interacts with 5 human partners:{P56385;Q7Z4Y8;P03928;O75964;P24539}

633 Pathogen[ P03383] interacts with 1 human partners:{P24539}

634 Pathogen[ P03410] interacts with 6 human partners:{P56385;P03928;P24539;O75964;P18859;Q7Z4Y8}

635 Pathogen[ P14075] interacts with 2 human partners:{P24539;P56385}

636 Pathogen[ P0C206] interacts with 2 human partners:{P24539;P56385}

637 [Cluster 96]GO:0033177+C cellular\_component [name] proton-transporting two-sector ATPase complex, proton-transporting domain [def] "A protein complex that forms part of a proton-transporting two-sector ATPase complex and carries out proton transport across a membrane. The proton-transporting domain (F0, V0, or A0) includes integral and peripheral membrane proteins." [GOC

638 Pathogen[ P03346] interacts with 1 human partners:{Q93050}

639 Pathogen[ Q85601] interacts with 1 human partners:{Q93050}

640 Pathogen[ P14079] interacts with 3 human partners:{P61421;Q8N8Y2;Q93050}

641 Pathogen[ P03410] interacts with 3 human partners:{Q8N8Y2;P61421;Q93050}

642 Pathogen[ P0C206] interacts with 1 human partners:{Q93050}

643 [Cluster 97]GO:0044442+C cellular\_component [name] microtubule-based flagellum part [def] "Any constituent part of a microtubule-based flagellum, a long, whiplike protrusion from the surface of a eukaryotic cell, whose undulations drive the cell through a liquid medium\_ similar in structure to a cilium. The flagellum is based on a 9+2 arrangement of microtubules. Examples of this component are found in *Mus musculus*." [GOC

644 Pathogen[ P14079] interacts with 3 human partners:{Q86UN6;O75952;Q5H9T9}

645 Pathogen[ P03410] interacts with 3 human partners:{Q86UN6;O75952;Q5H9T9}

646 Pathogen[ P0C206] interacts with 3 human partners:{O75952;Q5H9T9;Q86UN6}

647 Pathogen[ P03363] interacts with 1 human partners:{Q86UN6}

648 [Cluster 98]GO:0014731+C cellular\_component [name] spectrin-associated cytoskeleton [def] "The part of the cytoskeleton composed of spectrin, protein 4.1 and ankyrin. Spectrin-associated cytoskeleton is associated with the plasma membrane." [GOC

649 Pathogen[ Q2Q067] interacts with 2 human partners:{Q01082;P11171}

650 Pathogen[ P0C214] interacts with 3 human partners:{P16157;Q01082;P11171}

651 Pathogen[ P03346] interacts with 5 human partners:{P02549;P11277;P16157;Q01082;P11171}

652 Pathogen[ Q85601] interacts with 3 human partners:{P16157;P11171;Q01082}

653 Pathogen[ P14079] interacts with 5 human partners:{P11171;Q01082;P16157;P11277;P02549}

654 Pathogen[ P03410] interacts with 5 human partners:{P16157;P02549;P11171;Q01082;P11277}

655 Pathogen[ P14075] interacts with 1 human partners:{P11171}

656 Pathogen[ P0C206] interacts with 4 human partners:{Q01082;P16157;P11277;P11171}

657 Pathogen[ P03363] interacts with 5 human partners:{P11277;P02549;P16157;Q01082;P11171}

658 [Cluster 99]GO:0005577+C cellular\_component [name] fibrinogen complex [def] "A highly soluble, elongated protein complex found in blood plasma and involved in clot formation. It is converted into fibrin monomer by the action of thrombin. In the mouse, fibrinogen is a hexamer, 46 nm long and 9 nm maximal diameter, containing two sets of nonidentical chains (alpha, beta, and gamma) linked together by disulfide bonds." [ISBN

659 Pathogen[ Q2Q067] interacts with 1 human partners:{P08697}

660 Pathogen[ P0C214] interacts with 1 human partners:{P08697}

661 Pathogen[ Q85601] interacts with 1 human partners:{P08697}

662 Pathogen[ P03383] interacts with 1 human partners:{P08697}

663 Pathogen[ P03410] interacts with 1 human partners:{P08697}

664 Pathogen[ P14075] interacts with 1 human partners:{P08697}

665 Pathogen[ P0C206] interacts with 1 human partners:{P08697}

666 [Cluster 100]GO:0070938+C cellular\_component [name] contractile ring [def] "A cytoskeletal structure composed of filamentous protein that forms beneath the membrane of many cells or organelles, in the plane of cell or organelle division. Ring contraction is associated with centripetal growth of the membrane that divides the cytoplasm of the two daughter cells or organelles." [GOC

667 Pathogen[ P0C214] interacts with 1 human partners:{Q96GD0}

668 Pathogen[ P14079] interacts with 2 human partners:{Q14118;Q96GD0}

669 Pathogen[ P03410] interacts with 2 human partners:{Q96GD0;Q14118}

670 Pathogen[ P0C206] interacts with 1 human partners:{Q96GD0}

671 [Cluster 101]GO:0016533+C cellular\_component [name] cyclin-dependent protein kinase 5 holoenzyme complex [def] "A protein complex that activates cyclin-dependent kinase 5\_ composed of regulatory and catalytic subunits." [PMID

672 Pathogen[ P14079] interacts with 1 human partners:{Q15078}

673 [Cluster 102]GO:0043020+C cellular\_component [name] NADPH oxidase complex [def] "A enzyme complex of which the core is a heterodimer composed of a light (alpha) and heavy (beta) chain, and requires several other water-soluble proteins of cytosolic origin for activity. Functions in superoxide generation by the NADPH-dependent reduction of O2." [GOC

674 Pathogen[ P03346] interacts with 1 human partners:{Q86UR1}

675 Pathogen[ P14079] interacts with 1 human partners:{P13498}

676 Pathogen[ P03410] interacts with 1 human partners:{Q86UR1}

677 Pathogen[ P03363] interacts with 1 human partners:{Q86UR1}

678 [Cluster 103]GO:0031256+C cellular\_component [name] leading edge membrane [def] "The portion of the plasma membrane surrounding the leading edge of a motile cell." [GOC

679 Pathogen[ P03346] interacts with 1 human partners:{Q6UWF3}

680 Pathogen[ P14079] interacts with 1 human partners:{Q6UWF3}

681 Pathogen[ P03383] interacts with 1 human partners:{Q6UWF3}

682 Pathogen[ P03410] interacts with 1 human partners:{Q6UWF3}

683 Pathogen[ P14075] interacts with 1 human partners:{Q6UWF3}

684 Pathogen[ P0C206] interacts with 1 human partners:{Q6UWF3}

685 Pathogen[ P03363] interacts with 1 human partners:{Q6UWF3}

686 [Cluster 104]GO:0043083+C cellular\_component [name] synaptic cleft [def] "The narrow gap that separates the presynaptic and postsynaptic membranes, into which neurotransmitter is released." [GOC

687 Pathogen[ P03346] interacts with 1 human partners:{Q9Y215}

688 Pathogen[ P03410] interacts with 1 human partners:{Q9Y215}

689 Pathogen[ P03363] interacts with 1 human partners:{Q9Y215}

690 [Cluster 105]GO:0033193+C cellular\_component [name] Lsd1/2 complex [def] "A nucleosome-binding protein complex that comprises two SWIRM domain histone demethylases and two PHD finger proteins. The complex is involved in transcriptional regulation via heterochromatic silencing and the regulation of chromatin boundary formation, and was first identified in fission yeast." [GOC

691 Pathogen[ P03346] interacts with 1 human partners:{P17542}

692 [Cluster 106]GO:0042629+C cellular\_component [name] mast cell granule [def] "Coarse, bluish-black staining cytoplasmic granules, bounded by a plasma membrane and found in mast cells and basophils. Contents include histamine, heparin, chondroitin sulfates, chymase and tryptase." [GOC

693 Pathogen[ P0C214] interacts with 1 human partners:{P10124}

694 Pathogen[ P14079] interacts with 1 human partners:{P10124}

695 Pathogen[ P03383] interacts with 1 human partners:{P10124}

696 Pathogen[ P03410] interacts with 1 human partners:{P10124}

697 Pathogen[ P14075] interacts with 1 human partners:{P10124}

698 Pathogen[ P0C206] interacts with 1 human partners:{P10124}

699 [Cluster 107]GO:0009330+C cellular\_component [name] DNA topoisomerase complex (ATP-hydrolyzing) [def] "Complex that possesses DNA topoisomerase (ATP-hydrolyzing) activity." [GOC

700 Pathogen[ Q2Q067] interacts with 1 human partners:{P11388}

701 Pathogen[ P0C214] interacts with 1 human partners:{P11388}

702 Pathogen[ P03346] interacts with 1 human partners:{P11388}

703 Pathogen[ Q85601] interacts with 1 human partners:{P11388}

704 Pathogen[ P14079] interacts with 1 human partners:{P11388}

705 Pathogen[ P03410] interacts with 1 human partners:{P11388}

706 Pathogen[ P0C206] interacts with 1 human partners:{P11388}

707 [Cluster 108]GO:0070852+C cellular\_component [name] cell body fiber [def] "A neuron

projection that is found in unipolar neurons and corresponds to the region between the cell body and the point at which the single projection branches." [GOC

708 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9NZJ4}

709 Pathogen[ P0C214] interacts with 1 human partners:{Q9NZJ4}

710 Pathogen[ P03346] interacts with 1 human partners:{Q9NZJ4}

711 Pathogen[ Q85601] interacts with 1 human partners:{Q9NZJ4}

712 Pathogen[ P14079] interacts with 1 human partners:{Q9NZJ4}

713 Pathogen[ P03410] interacts with 1 human partners:{Q9NZJ4}

714 Pathogen[ P0C206] interacts with 1 human partners:{Q9NZJ4}

715 Pathogen[ P03363] interacts with 1 human partners:{Q9NZJ4}

716 [Cluster 109]GO:0031309+C cellular\_component [name] integral to nuclear outer membrane [def] "Located such that some or all of the gene product itself penetrates at least one phospholipid bilayer of the nuclear outer membrane. May also refer to the state of being buried in the bilayer with no exposure outside the bilayer." [GOC

717 Pathogen[ P14079] interacts with 1 human partners:{Q8N205}

718 Pathogen[ P03410] interacts with 1 human partners:{Q8N205}

719 Pathogen[ P0C206] interacts with 1 human partners:{Q8N205}

720 [Cluster 110]GO:0045273+C cellular\_component [name] respiratory chain complex II [def] "A part of the respiratory chain, containing the four polypeptide subunits of succinate dehydrogenase, flavin-adenine dinucleotide and iron-sulfur. Catalyzes the oxidation of succinate by ubiquinone. Connects the TCA cycle with the respiratory chain." [ISBN

721 Pathogen[ P0C214] interacts with 1 human partners:{Q99643}

722 Pathogen[ P03410] interacts with 1 human partners:{Q99643}

723 [Cluster 111]GO:0033270+C cellular\_component [name] paranode region of axon [def] "An axon part that is located adjacent to the nodes of Ranvier and surrounded by lateral loop portions of myelin sheath." [GOC

724 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9Y2J2}

725 Pathogen[ P03346] interacts with 1 human partners:{Q9Y2J2}

726 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y2J2}

727 Pathogen[ P14079] interacts with 1 human partners:{Q9Y2J2}

728 Pathogen[ P03410] interacts with 1 human partners:{Q9Y2J2}

729 Pathogen[ P14075] interacts with 1 human partners:{Q9Y2J2}

730 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y2J2}

731 Pathogen[ P03363] interacts with 1 human partners:{Q9Y2J2}

732 [Cluster 112]GO:0030990+C cellular\_component [name] intraflagellar transport particle [def] "A nonmembrane-bound oligomeric protein complex that participates in bidirectional transport of molecules (cargo) along axonemal microtubules." [GOC

733 Pathogen[ P03410] interacts with 1 human partners:{Q8TCX1}

734 [Cluster 113]GO:0031985+C cellular\_component [name] Golgi cisterna [def] "Any of the thin, flattened membrane-bounded compartments that form the central portion of the Golgi complex." [GOC

735 Pathogen[ Q2Q067] interacts with 1 human partners:{O15155}

736 Pathogen[ P0C214] interacts with 1 human partners:{O15155}

737 Pathogen[ P03346] interacts with 1 human partners:{O15155}

738 Pathogen[ Q85601] interacts with 1 human partners:{O15155}

739 Pathogen[ P14079] interacts with 1 human partners:{O15155}

740 Pathogen[ P03410] interacts with 1 human partners:{O15155}

741 Pathogen[ P0C206] interacts with 1 human partners:{O15155}

742 [Cluster 114]GO:0005862+C cellular\_component [name] muscle thin filament tropomyosin [def] "A form of the tropomyosin dimer found associated with actin and the troponin complex in muscle thin filaments." [ISBN

743 Pathogen[ P14079] interacts with 1 human partners:{P07951}

744 Pathogen[ P03410] interacts with 1 human partners:{P07951}

745 [Cluster 115]GO:0001401+C cellular\_component [name] mitochondrial sorting and assembly machinery complex [def] "A large complex of the mitochondrial outer membrane that mediates sorting of some imported proteins to the outer membrane and their assembly in the membrane\_ functions after import of incoming proteins by the mitochondrial outer membrane translocase complex." [PMID

746 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y512}

747 Pathogen[ P03346] interacts with 1 human partners:{Q9Y512}

748 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y512}

749 Pathogen[ P14079] interacts with 1 human partners:{Q9Y512}

750 Pathogen[ P03410] interacts with 1 human partners:{Q9Y512}

751 Pathogen[ P14075] interacts with 1 human partners:{Q9Y512}

752 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y512}

753 Pathogen[ P03363] interacts with 1 human partners:{Q9Y512}

754 [Cluster 116]GO:0032432+C cellular\_component [name] actin filament bundle [def] "An assembly of actin filaments that are on the same axis but may be oriented with the same or opposite polarities and may be packed with different levels of tightness." [GOC

755 Pathogen[ Q2Q067] interacts with 1 human partners:{P02511}

756 Pathogen[ P0C214] interacts with 1 human partners:{P02511}

757 Pathogen[ P03346] interacts with 1 human partners:{P02511}

758 Pathogen[ Q85601] interacts with 1 human partners:{P02511}

759 Pathogen[ P14079] interacts with 2 human partners:{P09327;P02511}

760 Pathogen[ P03383] interacts with 1 human partners:{P02511}

761 Pathogen[ P03410] interacts with 1 human partners:{P02511}



762 Pathogen[ P14075] interacts with 1 human partners:{P02511}

763 Pathogen[ P0C206] interacts with 1 human partners:{P02511}

764 [Cluster 117]GO:0000836+C cellular\_component [name] Hrd1p ubiquitin ligase complex [def] "A multiprotein complex that recognizes and ubiquitinates proteins with misfolded luminal and membrane domains during ER-associated protein degradation (ERAD). In *S. cerevisiae*, this complex contains the ubiquitin ligase Hrd1p." [GOC

765 Pathogen[ P03346] interacts with 1 human partners:{Q13438}

766 Pathogen[ P14079] interacts with 1 human partners:{Q13438}

767 Pathogen[ P03410] interacts with 1 human partners:{Q13438}

768 Pathogen[ P0C206] interacts with 1 human partners:{Q13438}

769 Pathogen[ P03363] interacts with 1 human partners:{Q13438}

770 [Cluster 118]GO:0005605+C cellular\_component [name] basal lamina [def] "A thin sheet of proteoglycans and glycoproteins, especially laminin, secreted by cells as an extracellular matrix." [ISBN

771 Pathogen[ P03346] interacts with 1 human partners:{Q9Y215}

772 Pathogen[ P03410] interacts with 1 human partners:{Q9Y215}

773 Pathogen[ P03363] interacts with 1 human partners:{Q9Y215}

774 [Cluster 119]GO:0005964+C cellular\_component [name] phosphorylase kinase complex [def] "An enzyme complex that catalyzes the phosphorylation of phosphorylase b to form phosphorylase a." [EC

775 Pathogen[ P0C214] interacts with 2 human partners:{Q93100;P46020}

776 Pathogen[ P14079] interacts with 2 human partners:{Q93100;P46020}

777 Pathogen[ P03410] interacts with 2 human partners:{P46020;Q93100}

778 Pathogen[ P14075] interacts with 1 human partners:{Q93100}

779 Pathogen[ P0C206] interacts with 2 human partners:{Q93100;P46020}

780 [Cluster 120]GO:0044354+C cellular\_component [name] macropinosome [def] "A membrane-bounded, uncoated intracellular vesicle formed by the process of macropinocytosis." [PMID

781 Pathogen[ P03346] interacts with 1 human partners:{P30622}

782 Pathogen[ Q85601] interacts with 1 human partners:{P30622}

783 Pathogen[ P14079] interacts with 1 human partners:{P30622}

784 Pathogen[ P03410] interacts with 1 human partners:{P30622}

785 Pathogen[ P0C206] interacts with 1 human partners:{P30622}

786 Pathogen[ P03363] interacts with 1 human partners:{P30622}

787 [Cluster 121]GO:0030867+C cellular\_component [name] rough endoplasmic reticulum membrane [def] "The lipid bilayer surrounding the rough endoplasmic reticulum." [GOC

788 Pathogen[ Q2Q067] interacts with 1 human partners:{P05062}

789 Pathogen[ P0C214] interacts with 1 human partners:{P05062}

790 Pathogen[ P03346] interacts with 1 human partners:{P05062}

791 Pathogen[ Q85601] interacts with 1 human partners:{P05062}

792 Pathogen[ P03410] interacts with 1 human partners:{P05062}

793 Pathogen[ P0C206] interacts with 1 human partners:{P05062}

794 [Cluster 122]GO:0045298+C cellular\_component [name] tubulin complex [def] "A heterodimer of tubulins alpha and beta that constitutes the protomer for microtubule assembly." [ISBN

795 Pathogen[ P0C214] interacts with 1 human partners:{Q96G01}

796 Pathogen[ P03346] interacts with 1 human partners:{Q96G01}

797 Pathogen[ Q85601] interacts with 1 human partners:{Q96G01}

798 Pathogen[ P14079] interacts with 3 human partners:{Q96G01;P13693;P10636}

799 Pathogen[ P03410] interacts with 3 human partners:{Q96G01;P13693;P10636}

800 Pathogen[ P0C206] interacts with 2 human partners:{P10636;Q96G01}

801 [Cluster 123]GO:0005955+C cellular\_component [name] calcineurin complex [def] "A heterodimeric calcium ion and calmodulin dependent protein phosphatase composed of catalytic and regulatory subunits\_ the regulatory subunit is very similar in sequence to calmodulin." [ISBN

802 Pathogen[ Q2Q067] interacts with 1 human partners:{Q08209}

803 Pathogen[ P0C214] interacts with 1 human partners:{Q08209}

804 Pathogen[ P03346] interacts with 1 human partners:{Q08209}

805 Pathogen[ Q85601] interacts with 1 human partners:{Q08209}

806 Pathogen[ P14079] interacts with 2 human partners:{P16298;Q08209}

807 Pathogen[ P03410] interacts with 2 human partners:{Q08209;P63098}

808 Pathogen[ P0C206] interacts with 1 human partners:{Q08209}

809 [Cluster 124]GO:0042765+C cellular\_component [name] GPI-anchor transamidase complex [def] "An enzyme complex which in humans and yeast consists of at least five proteins\_ for example, the complex contains GAAL1, GPI8, PIG-S, PIG-U, and PIG-T in human, and Gaalp, Gablp, Gpi8p, Gpil6p, and Gpil7p in yeast. Catalyzes the posttranslational attachment of the carboxyl-terminus of a precursor protein to a GPI-anchor." [GOC

810 Pathogen[ P14079] interacts with 4 human partners:{O43292;Q96S52;Q969N2;Q9H490}

811 Pathogen[ P03410] interacts with 3 human partners:{Q96S52;Q969N2;Q9H490}

812 [Cluster 125]GO:0045281+C cellular\_component [name] succinate dehydrogenase complex [def] "A multimeric complex which consists of flavoprotein (subunit A \_ InterPro

813 Pathogen[ P0C214] interacts with 1 human partners:{Q99643}

814 Pathogen[ P03410] interacts with 1 human partners:{Q99643}

815 [Cluster 126]GO:0044421+C cellular\_component [name] extracellular region part [def] "Any constituent part of the extracellular region, the space external to the outermost structure of a cell. For cells without external protective or external encapsulating

structures this refers to space outside of the plasma membrane. This term covers constituent parts of the host cell environment outside an intracellular parasite." [GOC

816 Pathogen[ P0C214] interacts with 1 human partners:{P07093}

817 Pathogen[ Q85601] interacts with 1 human partners:{P07093}

818 Pathogen[ P14079] interacts with 1 human partners:{Q9BVV8}

819 Pathogen[ P03410] interacts with 1 human partners:{Q9BVV8}

820 [Cluster 127]GO:0072517+C cellular\_component [name] host cell viral assembly compartment [def] "A membrane-bounded compartment that forms in the cytoplasm of the host cell, in which virus assembly takes place." [GOC

821 Pathogen[ P0C214] interacts with 1 human partners:{Q96G01}

822 Pathogen[ P03346] interacts with 1 human partners:{Q96G01}

823 Pathogen[ Q85601] interacts with 1 human partners:{Q96G01}

824 Pathogen[ P14079] interacts with 1 human partners:{Q96G01}

825 Pathogen[ P03410] interacts with 1 human partners:{Q96G01}

826 Pathogen[ P0C206] interacts with 1 human partners:{Q96G01}

827 [Cluster 128]GO:0034707+C cellular\_component [name] chloride channel complex [def] "An ion channel complex through which chloride ions pass." [GOC

828 Pathogen[ P03346] interacts with 2 human partners:{O00299;O95833}

829 Pathogen[ P14079] interacts with 3 human partners:{A1A5B4;Q9NQ90;Q9BYT9}

830 Pathogen[ P03410] interacts with 3 human partners:{Q9NQ90;Q9BYT9;A1A5B4}

831 Pathogen[ P0C206] interacts with 1 human partners:{Q9NQ90}

832 Pathogen[ P03363] interacts with 1 human partners:{O95833}

833 [Cluster 129]GO:0045271+C cellular\_component [name] respiratory chain complex I [def] "Respiratory chain complex I is an enzyme of the respiratory chain. It consists of at least 34 polypeptide chains and is L-shaped, with a horizontal arm lying in the membrane and a vertical arm that projects into the matrix. The electrons of NADH enter the chain at this complex." [GOC

834 Pathogen[ P14079] interacts with 1 human partners:{O43181}

835 Pathogen[ P03410] interacts with 1 human partners:{O43181}

836 [Cluster 130]GO:0033116+C cellular\_component [name] endoplasmic reticulum-Golgi intermediate compartment membrane [def] "The lipid bilayer surrounding any of the compartments of the endoplasmic reticulum (ER)-Golgi intermediate compartment system." [GOC

837 Pathogen[ Q2Q067] interacts with 2 human partners:{O75396;Q15437}

838 Pathogen[ P0C214] interacts with 3 human partners:{P49257;Q15437;O75396}

839 Pathogen[ P03346] interacts with 8 human partners:{P49257;Q969X5;Q13190;O75396;Q15437;P49755;Q15363;Q9BVK6}

840 Pathogen[ Q85601] interacts with 3 human partners:{O75396;Q15437;P49257}

841 Pathogen[ P14079] interacts with 11 human partners:{Q9H295;P49257;Q3ZAQ7;Q96RQ1;Q9BVK6;Q15363;O75396;Q96GC9;Q969X5;P49755;O15260}

842 Pathogen[ P03383] interacts with 1 human partners:{Q15437}

843 Pathogen[ P03410] interacts with 12 human partners:{Q96GC9;Q13190;P49257;Q969X5;Q13445;Q9BVK6;O75396;Q15437;Q96RQ1;Q15363;Q9UBY8;O15260}

844 Pathogen[ P14075] interacts with 1 human partners:{Q15437}

845 Pathogen[ P0C206] interacts with 9 human partners:{Q9BVK6;Q15437;O75396;P49755;P49257;O15260;Q969X5;Q96RQ1;Q15363}

846 [Cluster 131]GO:0032002+C cellular\_component [name] interleukin-28 receptor complex [def] "A protein complex that binds interleukin-28 and interleukin-29. Composed of two subunits, IL-28R alpha and IL-10R beta." [GOC

847 Pathogen[ P14079] interacts with 1 human partners:{Q8IU54}

848 [Cluster 132]GO:0008250+C cellular\_component [name] oligosaccharyltransferase complex [def] "A protein complex that is found in the endoplasmic reticulum membrane of eukaryotes and transfers lipid-linked oligosaccharide precursor to asparagine residues on nascent proteins. In yeast, the complex includes at least nine different subunits, whereas in mammalian cells at least three different forms of the complex have been detected." [ISBN

849 Pathogen[ P14079] interacts with 6 human partners:{Q8N6L1;P39656;P04844;P61803;Q9NRP0;P46977}

850 Pathogen[ P03410] interacts with 4 human partners:{Q8N6L1;P04844;P39656;P61803}

851 Pathogen[ P14075] interacts with 1 human partners:{Q8N6L1}

852 Pathogen[ P0C206] interacts with 1 human partners:{P39656}

853 [Cluster 133]GO:0035339+C cellular\_component [name] SPOTS complex [def] "A multiprotein complex at least composed of serine palmitoyltransferases and ORM proteins (known as ORMDL proteins in mammals and other higher vertebrates) that plays a key role in sphingolipid homeostasis." [PMID

854 Pathogen[ P14079] interacts with 1 human partners:{Q8N138}

855 Pathogen[ P03410] interacts with 1 human partners:{Q8N138}

856 [Cluster 134]GO:0032426+C cellular\_component [name] stereocilium bundle tip [def] "The end of a stereocilium bundle, distal to the site of the bundle's attachment to the apical cell surface." [GOC

857 Pathogen[ P14079] interacts with 1 human partners:{Q7RTU9}

858 Pathogen[ P03410] interacts with 1 human partners:{Q7RTU9}

859 [Cluster 135]GO:0005879+C cellular\_component [name] axonemal microtubule [def] "A microtubule in the axoneme of a cilium or flagellum\_ an axoneme contains nine modified

doublet microtubules surrounding a pair of single microtubules." [ISBN

860 Pathogen[ P03346] interacts with 1 human partners:{Q9Y6D5}

861 Pathogen[ P14079] interacts with 1 human partners:{Q9Y6D5}

862 Pathogen[ P03410] interacts with 1 human partners:{Q9Y6D5}

863 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y6D5}

864 [Cluster 136]GO:0031512+C cellular\_component [name] motile primary cilium [def] "A primary cilium which may contain a variable array of axonemal microtubules and also contains molecular motors. Motile primary cilia display a distinct twirling motion that directs fluid flow asymmetrically across the cellular surface to affect asymmetric body plan organization." [GOC

865 Pathogen[ P03346] interacts with 1 human partners:{Q9NQC8}

866 Pathogen[ P14079] interacts with 1 human partners:{Q9NQC8}

867 Pathogen[ P03410] interacts with 2 human partners:{Q8TCX1;Q9NQC8}

868 Pathogen[ P0C206] interacts with 1 human partners:{Q9NQC8}

869 Pathogen[ P03363] interacts with 1 human partners:{Q9NQC8}

870 [Cluster 137]GO:0042588+C cellular\_component [name] zymogen granule [def] "A membrane-bounded, cytoplasmic secretory granule found in enzyme-secreting cells and visible by light microscopy. Contain zymogen, an inactive enzyme precursor, often of a digestive enzyme." [GOC

871 Pathogen[ P0C214] interacts with 1 human partners:{P10124}

872 Pathogen[ P14079] interacts with 1 human partners:{P10124}

873 Pathogen[ P03383] interacts with 1 human partners:{P10124}

874 Pathogen[ P03410] interacts with 1 human partners:{P10124}

875 Pathogen[ P14075] interacts with 1 human partners:{P10124}

876 Pathogen[ P0C206] interacts with 1 human partners:{P10124}

877 [Cluster 138]GO:0043679+C cellular\_component [name] axon terminus [def] "Terminal inflated portion of the axon, containing the specialized apparatus necessary to release neurotransmitters. The axon terminus is considered to be the whole region of thickening and the terminal button is a specialized region of it." [GOC

878 Pathogen[ Q2Q067] interacts with 1 human partners:{Q16143}

879 Pathogen[ P0C214] interacts with 2 human partners:{O15056;Q16143}

880 Pathogen[ P03346] interacts with 4 human partners:{Q14141;O15056;Q16143;P54257}

881 Pathogen[ Q85601] interacts with 1 human partners:{Q16143}

882 Pathogen[ P14079] interacts with 3 human partners:{P54257;P61421;Q16143}

883 Pathogen[ P03410] interacts with 3 human partners:{P61421;Q16143;P54257}

884 Pathogen[ P0C206] interacts with 2 human partners:{Q14141;Q16143}

885 Pathogen[ P03363] interacts with 5 human partners:{O15056;P54257;Q14141;Q99719;Q16143}

886 [Cluster 139]GO:0016328+C cellular\_component [name] lateral plasma membrane [def] "The membranes on the sides of epithelial cells which lie at the interface of adjacent cells." [GOC

887 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9BTW9;Q12959}

888 Pathogen[ P0C214] interacts with 4 human partners:{O00159;Q9BTW9;Q12959;P36404}

889 Pathogen[ P03346] interacts with 5 human partners:{Q7Z3G6;Q13813;P36404;Q969F2;Q12959}

890 Pathogen[ Q85601] interacts with 3 human partners:{Q9BTW9;O00159;Q12959}

891 Pathogen[ P14079] interacts with 4 human partners:{Q9BTW9;Q7Z3G6;O43687;Q13813}

892 Pathogen[ P03410] interacts with 7 human partners:{Q969F2;Q12959;O00159;Q9BTW9;O43687;Q13813;O95471}

893 Pathogen[ P0C206] interacts with 5 human partners:{Q969F2;Q9BTW9;Q7Z3G6;O00159;Q12959}

894 Pathogen[ P03363] interacts with 3 human partners:{Q12959;Q9BTW9;Q13813}

895 [Cluster 140]GO:0070032+C cellular\_component [name] synaptobrevin 2-SNAP-25-syntaxin-1a-complexin I complex [def] "A SNARE complex that contains synaptobrevin 2 (VAMP2), SNAP-25, syntaxin 1a, and complexin I (or orthologs thereof)." [PMID

896 Pathogen[ P14079] interacts with 1 human partners:{O14810}

897 Pathogen[ P03410] interacts with 1 human partners:{O14810}

898 [Cluster 141]GO:0032590+C cellular\_component [name] dendrite membrane [def] "The portion of the plasma membrane surrounding a dendrite." [GOC

899 Pathogen[ P03346] interacts with 1 human partners:{Q9H0R8}

900 Pathogen[ Q85601] interacts with 1 human partners:{Q9H0R8}

901 Pathogen[ P14079] interacts with 2 human partners:{P24588;Q9H0R8}

902 Pathogen[ P03410] interacts with 2 human partners:{Q9H0R8;P24588}

903 Pathogen[ P0C206] interacts with 1 human partners:{Q9H0R8}

904 Pathogen[ P03363] interacts with 1 human partners:{Q9H0R8}

905 [Cluster 142]GO:0034364+C cellular\_component [name] high-density lipoprotein particle [def] "A lipoprotein particle with a high density (typically 1.063-1.21 g/ml) and a diameter of 5-10 nm that contains APOAs and may contain APOCs and APOE\_ found in blood and carries lipids from body tissues to the liver as part of the reverse cholesterol transport process." [GOC

906 Pathogen[ P14079] interacts with 1 human partners:{P0DJ18}

907 Pathogen[ P03410] interacts with 1 human partners:{P0DJ18}

908 [Cluster 143]GO:0008290+C cellular\_component [name] F-actin capping protein complex [def] "A heterodimer consisting of alpha and beta subunits that binds to and caps the barbed ends of actin filaments, thereby regulating the polymerization of actin monomers

but not severing actin filaments." [GOC

909 Pathogen[ Q2Q067] interacts with 1 human partners:{P40121}

910 Pathogen[ P0C214] interacts with 1 human partners:{P40121}

911 Pathogen[ P03346] interacts with 2 human partners:{P40121;P58546}

912 Pathogen[ Q85601] interacts with 1 human partners:{P40121}

913 Pathogen[ P14079] interacts with 4 human partners:{P47756;P40121;P35611;Q96KX2}

914 Pathogen[ P03410] interacts with 4 human partners:{Q96KX2;P47756;P40121;P35611}

915 Pathogen[ P0C206] interacts with 2 human partners:{P47756;P40121}

916 Pathogen[ P03363] interacts with 1 human partners:{P40121}

917 [Cluster 144]GO:0000439+C cellular\_component [name] core TFIIH complex [def] "The 5 subunit core of TFIIH that has tightly associated subunits and is found in both the general transcription factor holo-TFIIH and in the nucleotide-excision repair factor 3 complex. In *S. cerevisiae*, it is composed of Rad3, Tfb1, Tfb2, Ssl1, Tfb4. In humans, it is composed of XPD, p62, p55, p44, p34." [GOC

918 Pathogen[ Q2Q067] interacts with 1 human partners:{Q13889}

919 Pathogen[ P03346] interacts with 1 human partners:{Q13889}

920 Pathogen[ P14079] interacts with 1 human partners:{Q13889}

921 Pathogen[ P03410] interacts with 1 human partners:{Q13889}

922 Pathogen[ P14075] interacts with 1 human partners:{Q13889}

923 Pathogen[ P0C206] interacts with 1 human partners:{Q13889}

924 [Cluster 145]GO:0031988+C cellular\_component [name] membrane-bounded vesicle [def] "Any small, fluid-filled, spherical organelle enclosed by a lipid bilayer." [GOC

925 Pathogen[ P03410] interacts with 1 human partners:{P55157}

926 [Cluster 146]GO:0031232+C cellular\_component [name] extrinsic to external side of plasma membrane [def] "Loosely bound to the surface of the plasma membrane that faces away from the cytoplasm, but not integrated into the hydrophobic region." [GOC

927 Pathogen[ P0C214] interacts with 1 human partners:{P07093}

928 Pathogen[ Q85601] interacts with 1 human partners:{P07093}

929 [Cluster 147]GO:0005971+C cellular\_component [name] ribonucleoside-diphosphate reductase complex [def] "An enzyme complex composed of 2-4 or more subunits, which usually contains nonheme iron and requires ATP for catalysis. Catalyzes the formation of 2'-deoxyribonucleoside diphosphate and thioredoxin disulfide from ribonucleoside diphosphate and thioredoxin." [BRENDA

930 Pathogen[ Q2Q067] interacts with 2 human partners:{P31350;Q7LG56}

931 Pathogen[ P0C214] interacts with 3 human partners:{P31350;P23921;Q7LG56}

932 Pathogen[ P03346] interacts with 2 human partners:{P31350;Q7LG56}

933 Pathogen[ Q85601] interacts with 2 human partners:{P31350;Q7LG56}

934 Pathogen[ P14079] interacts with 2 human partners:{P31350;Q7LG56}

935 Pathogen[ P03383] interacts with 1 human partners:{P31350}

936 Pathogen[ P03410] interacts with 3 human partners:{P31350;P23921;Q7LG56}

937 Pathogen[ P14075] interacts with 1 human partners:{P31350}

938 Pathogen[ P0C206] interacts with 2 human partners:{Q7LG56;P31350}

939 [Cluster 148]GO:0031205+C cellular\_component [name] endoplasmic reticulum Sec complex [def] "An endoplasmic reticulum membrane-associated complex involved in the translocation of proteins that are targeted to the ER. In yeast, this complex consists of two subcomplexes, namely, the Sec61 complex and the Sec62/Sec63 complex." [GOC

940 Pathogen[ P14079] interacts with 1 human partners:{P60468}

941 Pathogen[ P03410] interacts with 1 human partners:{P60468}

942 [Cluster 149]GO:0046696+C cellular\_component [name] lipopolysaccharide receptor complex [def] "A multiprotein complex that consists of at least three proteins, CD14, TLR4, and MD-2, each of which is glycosylated." [PMID

943 Pathogen[ Q2Q067] interacts with 1 human partners:{O95999}

944 Pathogen[ P0C214] interacts with 2 human partners:{O95999;P10809}

945 Pathogen[ P03346] interacts with 1 human partners:{O95999}

946 Pathogen[ Q85601] interacts with 1 human partners:{O95999}

947 Pathogen[ P14079] interacts with 2 human partners:{O95999;Q9Y6Y9}

948 Pathogen[ P03383] interacts with 1 human partners:{O95999}

949 Pathogen[ P03410] interacts with 2 human partners:{O95999;Q9Y6Y9}

950 Pathogen[ P14075] interacts with 1 human partners:{O95999}

951 Pathogen[ P0C206] interacts with 1 human partners:{O95999}

952 [Cluster 150]GO:0045025+C cellular\_component [name] mitochondrial degradosome [def] "A mitochondrial protein complex with 3' to 5' exoribonuclease activity that participates in intron-independent turnover and processing of mitochondrial transcripts. In humans, the mitochondrial degradosome is a pentameric complex, and in yeast it exists as a heterodimer." [PMID

953 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8TCS8}

954 Pathogen[ P0C214] interacts with 1 human partners:{Q8TCS8}

955 Pathogen[ P03346] interacts with 1 human partners:{Q8TCS8}

956 Pathogen[ Q85601] interacts with 1 human partners:{Q8TCS8}

957 Pathogen[ P14079] interacts with 1 human partners:{Q8TCS8}

958 Pathogen[ P03383] interacts with 1 human partners:{Q8TCS8}

959 Pathogen[ P03410] interacts with 1 human partners:{Q8TCS8}

960 Pathogen[ P14075] interacts with 1 human partners:{Q8TCS8}

961 Pathogen[ P0C206] interacts with 1 human partners:{Q8TCS8}

962 [Cluster 151]GO:0030690+C cellular\_component [name] Noc1p-Noc2p complex [def] "A heterodimer associated with 90S and 66S preribosomes in the nucleolus\_ involved in

ribosomal large subunit biogenesis." [PMID  
963 Pathogen[ Q2Q067] interacts with 1 human partners:{Q14790}  
964 Pathogen[ P0C214] interacts with 1 human partners:{Q14790}  
965 Pathogen[ P03346] interacts with 1 human partners:{Q14790}  
966 Pathogen[ Q85601] interacts with 1 human partners:{Q14790}  
967 Pathogen[ P14079] interacts with 1 human partners:{Q14790}  
968 Pathogen[ P0C206] interacts with 1 human partners:{Q14790}  
969 [Cluster 152]GO:0005604+C cellular\_component [name] basement membrane [def] "A thin layer of dense material found in various animal tissues interposed between the cells and the adjacent connective tissue. It consists of the basal lamina plus an associated layer of reticulin fibers." [ISBN  
970 Pathogen[ Q2Q067] interacts with 1 human partners:{Q01196}  
971 Pathogen[ P03346] interacts with 2 human partners:{Q96RT1;Q01196}  
972 Pathogen[ Q85601] interacts with 1 human partners:{Q96RT1}  
973 Pathogen[ P14079] interacts with 3 human partners:{Q14118;Q96RT1;Q9UQE7}  
974 Pathogen[ P03410] interacts with 3 human partners:{Q96RT1;Q9UQE7;Q14118}  
975 Pathogen[ P0C206] interacts with 2 human partners:{Q96RT1;Q9UQE7}  
976 Pathogen[ P03363] interacts with 1 human partners:{Q96RT1}  
977 [Cluster 153]GO:0000506+C cellular\_component [name] glycosylphosphatidylinositol-N-acetylglucosaminyltransferase (GPI-GnT) complex [def] "An enzyme complex that catalyzes the transfer of GlcNAc from UDP-GlcNAc to an acceptor phosphatidylinositol, the first step in the production of GPI anchors for cell surface proteins. The complex contains PIG-A, PIG-C, PIG-H, PIG-Q, PIG-P, and DPM2 in human, and Erilp, Gpilp, Gpi2p, Gpi15p, Gpi19p, and Spt14p in budding yeast." [GOC  
978 Pathogen[ Q2Q067] interacts with 2 human partners:{Q96I23;Q14442}  
979 Pathogen[ P03346] interacts with 2 human partners:{Q14442;Q96I23}  
980 Pathogen[ P14079] interacts with 6 human partners:{Q14442;P57054;Q9BRB3;O94777;Q96I23;Q3MUY2}  
981 Pathogen[ P03383] interacts with 1 human partners:{Q96I23}  
982 Pathogen[ P03410] interacts with 4 human partners:{O94777;Q14442;Q96I23;Q9BRB3}  
983 Pathogen[ P14075] interacts with 3 human partners:{O94777;Q14442;Q96I23}  
984 Pathogen[ P0C206] interacts with 3 human partners:{Q96I23;Q14442;O94777}  
985 Pathogen[ P03363] interacts with 1 human partners:{Q96I23}  
986 [Cluster 154]GO:0071437+C cellular\_component [name] invadopodium [def] "A cell projection that emerges from the ECM-facing surface of a cell, is enriched in actin and associated cytoskeletal proteins, and displays localized proteolytic activity toward the substrate." [GOC  
987 Pathogen[ P0C214] interacts with 1 human partners:{Q16658}  
988 Pathogen[ P03346] interacts with 1 human partners:{Q16658}  
989 Pathogen[ P14079] interacts with 2 human partners:{O95425;Q16658}  
990 Pathogen[ P03410] interacts with 2 human partners:{Q16658;O95425}  
991 Pathogen[ P0C206] interacts with 1 human partners:{Q16658}  
992 Pathogen[ P03363] interacts with 1 human partners:{Q16658}  
993 [Cluster 155]GO:0033150+C cellular\_component [name] cytoskeletal calyx [def] "A large cytoskeletal structure located at the posterior end of the perinuclear theca of a mammalian sperm head. The nucleus is tightly associated with the calyx, which contains calicin and basic cylicin proteins." [PMID  
994 Pathogen[ P14079] interacts with 2 human partners:{Q14093;P35663}  
995 Pathogen[ P03410] interacts with 2 human partners:{P35663;Q14093}  
996 Pathogen[ P0C206] interacts with 1 human partners:{P35663}  
997 Pathogen[ P03363] interacts with 2 human partners:{Q14093;P35663}  
998 [Cluster 156]GO:0001520+C cellular\_component [name] outer dense fiber [def] "Structure or material found in the flagella of mammalian sperm that surrounds each of the nine microtubule doublets, giving a 9 + 9 + 2 arrangement rather than the 9 + 2 pattern usually seen. These dense fibers are stiff and noncontractile." [ISBN  
999 Pathogen[ P14079] interacts with 1 human partners:{Q96PU9}  
1000 [Cluster 157]GO:0042105+C cellular\_component [name] alpha-beta T cell receptor complex [def] "A T cell receptor complex in which the TCR heterodimer comprises alpha and beta chains, associated with the CD3 complex\_ recognizes a complex consisting of an antigen-derived peptide bound to a class I or class II MHC protein." [GOC  
1001 Pathogen[ P03410] interacts with 1 human partners:{P20963}  
1002 [Cluster 158]GO:0005969+C cellular\_component [name] serine-pyruvate aminotransferase complex [def] "An enzyme complex that catalyzes the formation of hydroxypyruvate and alanine from serine and pyruvate." [EC  
1003 Pathogen[ P14079] interacts with 1 human partners:{Q15075}  
1004 [Cluster 159]GO:0044194+C cellular\_component [name] cytolytic granule [def] "A specialized secretory lysosome that is present in cells with cytolytic capability such as cytotoxic T lymphocytes and natural killer cells. Cytolytic granules mediate the storage and regulated excretion of lytic molecules for killing of target cells." [GOC  
1005 Pathogen[ Q2Q067] interacts with 1 human partners:{Q15833}  
1006 Pathogen[ P0C214] interacts with 1 human partners:{Q15833}  
1007 Pathogen[ P03346] interacts with 1 human partners:{Q15833}  
1008 Pathogen[ Q85601] interacts with 1 human partners:{Q15833}  
1009 Pathogen[ P14079] interacts with 1 human partners:{Q15833}  
1010 Pathogen[ P03410] interacts with 1 human partners:{Q15833}  
1011 Pathogen[ P0C206] interacts with 1 human partners:{Q15833}

1012 Pathogen[ P03363] interacts with 1 human partners:{Q15833}

1013 [Cluster 160]GO:000221+C cellular\_component [name] vacuolar proton-transporting V-type ATPase, V1 domain [def] "The V1 domain of a proton-transporting V-type ATPase found in the vacuolar membrane." [GOC

1014 Pathogen[ P0C214] interacts with 1 human partners:{Q9UI12}

1015 Pathogen[ P14079] interacts with 1 human partners:{Q9UI12}

1016 Pathogen[ P03410] interacts with 1 human partners:{Q9UI12}

1017 Pathogen[ P0C206] interacts with 1 human partners:{Q9UI12}

1018 [Cluster 161]GO:0002116+C cellular\_component [name] semaphorin receptor complex [def] "A stable binary complex of a neurophilin and a plexin, together forming a functional semaphorin receptor." [GOC

1019 Pathogen[ Q2Q067] interacts with 1 human partners:{O14786}

1020 Pathogen[ P0C214] interacts with 1 human partners:{O14786}

1021 Pathogen[ P03346] interacts with 1 human partners:{O14786}

1022 Pathogen[ Q85601] interacts with 1 human partners:{O14786}

1023 Pathogen[ P03410] interacts with 1 human partners:{O14786}

1024 Pathogen[ P0C206] interacts with 1 human partners:{O14786}

1025 Pathogen[ P03363] interacts with 1 human partners:{O14786}

1026 [Cluster 162]GO:0044455+C cellular\_component [name] mitochondrial membrane part [def] "Any constituent part of a mitochondrial membrane, either of the lipid bilayers that surround the mitochondrion and form the mitochondrial envelope." [GOC

1027 Pathogen[ Q2Q067] interacts with 1 human partners:{O95831}

1028 Pathogen[ P03346] interacts with 1 human partners:{O95831}

1029 Pathogen[ Q85601] interacts with 1 human partners:{O95831}

1030 Pathogen[ P14079] interacts with 1 human partners:{O95831}

1031 Pathogen[ P03383] interacts with 1 human partners:{O95831}

1032 Pathogen[ P03410] interacts with 1 human partners:{O95831}

1033 Pathogen[ P14075] interacts with 1 human partners:{O95831}

1034 Pathogen[ P0C206] interacts with 1 human partners:{O95831}

1035 Pathogen[ P03363] interacts with 1 human partners:{O95831}

1036 [Cluster 163]GO:0008541+C cellular\_component [name] proteasome regulatory particle, lid subcomplex [def] "The subcomplex of the proteasome regulatory particle that forms the peripheral lid, which is added on top of the base subcomplex." [GOC

1037 Pathogen[ P14079] interacts with 1 human partners:{O00487}

1038 [Cluster 164]GO:0016035+C cellular\_component [name] zeta DNA polymerase complex [def] "A heterodimeric DNA polymerase complex that catalyzes error-prone DNA synthesis in contexts such as translesion synthesis and double-stranded break repair. First characterized in Saccharomyces, in which the subunits are Rev3p and Rev7p\_ a third protein, Rev1p, is often associated with the polymerase dimer." [PMID

1039 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UI95}

1040 Pathogen[ P0C214] interacts with 1 human partners:{Q9UI95}

1041 Pathogen[ P03346] interacts with 1 human partners:{Q9UI95}

1042 Pathogen[ Q85601] interacts with 1 human partners:{Q9UI95}

1043 Pathogen[ P03383] interacts with 1 human partners:{Q9UI95}

1044 Pathogen[ P03410] interacts with 1 human partners:{Q9UI95}

1045 Pathogen[ P14075] interacts with 1 human partners:{Q9UI95}

1046 Pathogen[ P0C206] interacts with 1 human partners:{Q9UI95}

1047 Pathogen[ P03363] interacts with 1 human partners:{Q9UI95}

1048 [Cluster 165]GO:0005891+C cellular\_component [name] voltage-gated calcium channel complex [def] "A protein complex that forms a transmembrane channel through which calcium ions may pass in response to changes in membrane potential." [GOC

1049 Pathogen[ Q2Q067] interacts with 1 human partners:{P35813}

1050 Pathogen[ P0C214] interacts with 1 human partners:{P35813}

1051 Pathogen[ P03346] interacts with 1 human partners:{P35813}

1052 Pathogen[ Q85601] interacts with 1 human partners:{P35813}

1053 Pathogen[ P14079] interacts with 1 human partners:{P35813}

1054 Pathogen[ P03383] interacts with 1 human partners:{P35813}

1055 Pathogen[ P03410] interacts with 1 human partners:{P35813}

1056 Pathogen[ P14075] interacts with 1 human partners:{P35813}

1057 Pathogen[ P0C206] interacts with 1 human partners:{P35813}

1058 [Cluster 166]GO:0031095+C cellular\_component [name] platelet dense tubular network membrane [def] "The lipid bilayer surrounding the platelet dense tubular network." [GOC

1059 Pathogen[ P03346] interacts with 1 human partners:{Q9Y6F6}

1060 Pathogen[ P14079] interacts with 1 human partners:{Q9Y6F6}

1061 Pathogen[ P03410] interacts with 1 human partners:{Q9Y6F6}

1062 Pathogen[ P14075] interacts with 1 human partners:{Q9Y6F6}

1063 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y6F6}

1064 Pathogen[ P03363] interacts with 1 human partners:{Q9Y6F6}

1065 [Cluster 167]GO:0005924+C cellular\_component [name] cell-substrate adherens junction [def] "An adherens junction which connects a cell to the extracellular matrix." [GOC

1066 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BX66}

1067 Pathogen[ P0C214] interacts with 1 human partners:{Q9BX66}

1068 Pathogen[ P03346] interacts with 1 human partners:{Q9BX66}

1069 Pathogen[ Q85601] interacts with 1 human partners:{Q9BX66}

1070 Pathogen[ P14079] interacts with 1 human partners:{Q9BX66}

1071 Pathogen[ P03410] interacts with 1 human partners:{Q9BX66}

1072 Pathogen[ P0C206] interacts with 1 human partners:{Q9BX66}

1073 Pathogen[ P03363] interacts with 1 human partners:{Q9BX66}

1074 [Cluster 168]GO:0032421+C cellular\_component [name] stereocilium bundle [def] "An actin-based, cross-linked cellular protrusion on the apical surface of auditory and vestibular hair cells. Stereocilium bundles act as mechanosensory organelles by responding to fluid motion or fluid pressure changes." [GOC

1075 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8N1I0}

1076 Pathogen[ P0C214] interacts with 1 human partners:{Q8N1I0}

1077 Pathogen[ P03346] interacts with 1 human partners:{Q8N1I0}

1078 Pathogen[ Q85601] interacts with 1 human partners:{Q8N1I0}

1079 Pathogen[ P14079] interacts with 1 human partners:{Q8N1I0}

1080 Pathogen[ P03410] interacts with 1 human partners:{Q8N1I0}

1081 Pathogen[ P0C206] interacts with 1 human partners:{Q8N1I0}

1082 Pathogen[ P03363] interacts with 1 human partners:{Q8N1I0}

1083 [Cluster 169]GO:0030684+C cellular\_component [name] preribosome [def] "Any complex of pre-rRNAs, ribosomal proteins, and associated proteins formed during ribosome biogenesis." [PMID

1084 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9Y237}

1085 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y237}

1086 Pathogen[ P03346] interacts with 1 human partners:{Q9Y237}

1087 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y237}

1088 Pathogen[ P14079] interacts with 1 human partners:{Q9Y237}

1089 Pathogen[ P03410] interacts with 1 human partners:{Q9Y237}

1090 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y237}

1091 Pathogen[ P03363] interacts with 1 human partners:{Q9Y237}

1092 [Cluster 170]GO:0033185+C cellular\_component [name] dolichol-phosphate-mannose synthase complex [def] "A protein complex that possesses dolichyl-phosphate beta-D-mannosyltransferase activity\_ contains a catalytic subunit, a regulatory subunit, and a third subunit that stabilizes the complex. In human and several other metazoa, the subunits are named DPM1, DPM2 and DPM3, respectively." [PMID

1093 Pathogen[ P14079] interacts with 2 human partners:{O94777;Q9P2X0}

1094 Pathogen[ P03410] interacts with 2 human partners:{O94777;Q9P2X0}

1095 Pathogen[ P14075] interacts with 1 human partners:{O94777}

1096 Pathogen[ P0C206] interacts with 1 human partners:{O94777}

1097 [Cluster 171]GO:0005873+C cellular\_component [name] plus-end kinesin complex [def] "Any complex that includes a dimer of molecules from the kinesin superfamily and any associated proteins, and moves towards the plus end of a microtubule." [GOC

1098 Pathogen[ P14079] interacts with 1 human partners:{O15066}

1099 Pathogen[ P03363] interacts with 1 human partners:{O15066}

1100 [Cluster 172]GO:0002142+C cellular\_component [name] stereocilia ankle link complex [def] "A complex of proteins that connect growing stereocilia in developing cochlear hair cells, composed of Vlgr1, usherin, vezatin, and whirlin." [PMID

1101 Pathogen[ P14079] interacts with 1 human partners:{Q9HBM0}

1102 Pathogen[ P03410] interacts with 1 human partners:{Q9HBM0}

1103 Pathogen[ P14075] interacts with 1 human partners:{Q9HBM0}

1104 Pathogen[ P0C206] interacts with 1 human partners:{Q9HBM0}

1105 [Cluster 173]GO:0009925+C cellular\_component [name] basal plasma membrane [def] "The region of the plasma membrane located at the basal end of the cell. Often used in reference to animal polarized epithelial membranes, where the basal membrane is the part attached to the extracellular matrix, or in plant cells, where the basal membrane is defined with respect to the zygotic axis." [GOC

1106 Pathogen[ P0C214] interacts with 1 human partners:{O00159}

1107 Pathogen[ P03346] interacts with 1 human partners:{Q96RT1}

1108 Pathogen[ Q85601] interacts with 2 human partners:{Q96RT1;O00159}

1109 Pathogen[ P14079] interacts with 2 human partners:{Q8N307;Q96RT1}

1110 Pathogen[ P03410] interacts with 3 human partners:{Q96RT1;Q8N307;O00159}

1111 Pathogen[ P0C206] interacts with 2 human partners:{Q96RT1;O00159}

1112 Pathogen[ P03363] interacts with 1 human partners:{Q96RT1}

1113 [Cluster 174]GO:0034362+C cellular\_component [name] low-density lipoprotein particle [def] "A lipoprotein particle, rich in cholesterol esters and low in triglycerides that is typically composed of APOB100 and APOE and has a density of 1.02-1.06 g/ml and a diameter of between 20-25 nm. LDL particles are formed from VLDL particles (via IDL) by the loss of triglyceride and gain of cholesterol ester. They transport endogenous cholesterol (and to some extent triglycerides) from peripheral tissues back to the liver." [GOC

1114 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BQE4}

1115 Pathogen[ P0C214] interacts with 1 human partners:{Q9BQE4}

1116 Pathogen[ Q85601] interacts with 1 human partners:{Q9BQE4}

1117 Pathogen[ P14079] interacts with 2 human partners:{Q9BQE4;Q0VD83}

1118 Pathogen[ P03383] interacts with 1 human partners:{Q9BQE4}

1119 Pathogen[ P03410] interacts with 2 human partners:{Q9BQE4;Q0VD83}

1120 Pathogen[ P14075] interacts with 1 human partners:{Q9BQE4}

1121 Pathogen[ P0C206] interacts with 1 human partners:{Q9BQE4}

1122 [Cluster 175]GO:0045334+C cellular\_component [name] clathrin-coated endocytic vesicle [def] "A clathrin-coated, membrane-bounded intracellular vesicle formed by invagination

of the plasma membrane around an extracellular substance." [GOC  
1123 Pathogen[ POC214] interacts with 1 human partners:{Q9UM54}  
1124 Pathogen[ Q85601] interacts with 1 human partners:{Q9UM54}  
1125 Pathogen[ P14079] interacts with 1 human partners:{Q9UM54}  
1126 Pathogen[ P03410] interacts with 1 human partners:{Q9UM54}  
1127 Pathogen[ POC206] interacts with 1 human partners:{Q9UM54}  
1128 [Cluster 176]GO:0002081+C cellular\_component [name] outer acrosomal membrane [def]  
"The acrosomal membrane region that underlies the plasma membrane of the sperm. This  
membrane fuses with the sperm plasma membrane as part of the acrosome reaction." [GOC  
1129 Pathogen[ P14079] interacts with 1 human partners:{Q9NQ60}  
1130 Pathogen[ P03410] interacts with 1 human partners:{Q9NQ60}  
1131 [Cluster 177]GO:0048269+C cellular\_component [name] methionine adenosyltransferase  
complex [def] "A multimeric enzyme complex composed of variable numbers of catalytic  
alpha subunits, and noncatalytic beta subunits. The beta subunits are believed to have a  
regulatory function. The enzyme complex catalyzes the synthesis of S-adenosylmethionine  
(AdoMet), which is the major methyl group donor, participating in the methylation of  
proteins, DNA, RNA, phospholipids, and other small molecules." [EC  
1132 Pathogen[ POC214] interacts with 1 human partners:{Q9NZL9}  
1133 Pathogen[ P03346] interacts with 1 human partners:{Q9NZL9}  
1134 Pathogen[ P14079] interacts with 1 human partners:{Q9NZL9}  
1135 Pathogen[ P03410] interacts with 1 human partners:{Q9NZL9}  
1136 Pathogen[ POC206] interacts with 1 human partners:{Q9NZL9}  
1137 [Cluster 178]GO:0016012+C cellular\_component [name] sarcoglycan complex [def] "A  
protein complex formed of four sarcoglycans plus sarcospan\_ there are six known  
sarcoglycans  
1138 Pathogen[ P14079] interacts with 5 human  
partners:{Q16585;Q92629;Q16586;Q13326;Q96LD1}  
1139 Pathogen[ P03410] interacts with 4 human partners:{Q16585;Q92629;Q13326;Q96LD1}  
1140 [Cluster 179]GO:0060091+C cellular\_component [name] kinocilium [def] "A nonmotile  
primary cilium that is found at the apical surface of auditory receptor cells. The  
kinocilium is surrounded by actin-based stereocilia." [GOC  
1141 Pathogen[ P14079] interacts with 2 human partners:{A6PVL3;Q7RTU9}  
1142 Pathogen[ P03410] interacts with 2 human partners:{A6PVL3;Q7RTU9}  
1143 [Cluster 180]GO:0031501+C cellular\_component [name] mannosyltransferase complex [def]  
"A complex that possesses mannosyltransferase activity." [GOC  
1144 Pathogen[ P14079] interacts with 1 human partners:{Q9P2X0}  
1145 Pathogen[ P03410] interacts with 1 human partners:{Q9P2X0}  
1146 [Cluster 181]GO:0060171+C cellular\_component [name] stereocilium membrane [def]  
"The portion of the plasma membrane surrounding a stereocilium." [GOC  
1147 Pathogen[ POC214] interacts with 1 human partners:{O00159}  
1148 Pathogen[ Q85601] interacts with 1 human partners:{O00159}  
1149 Pathogen[ P03410] interacts with 1 human partners:{O00159}  
1150 Pathogen[ POC206] interacts with 1 human partners:{O00159}  
1151 [Cluster 182]GO:0043540+C cellular\_component [name]  
6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 1 complex [def] "A homodimeric,  
bifunctional enzyme complex which catalyzes the synthesis and degradation of fructose  
2,6-bisphosphate, and is required for both glycolysis and gluconeogenesis." [GOC  
1152 Pathogen[ POC214] interacts with 1 human partners:{P16118}  
1153 Pathogen[ Q85601] interacts with 1 human partners:{P16118}  
1154 Pathogen[ P03410] interacts with 1 human partners:{P16118}  
1155 Pathogen[ P14075] interacts with 1 human partners:{P16118}  
1156 Pathogen[ POC206] interacts with 1 human partners:{P16118}  
1157 [Cluster 183]GO:0035003+C cellular\_component [name] subapical complex [def] "The  
most apical region of the lateral plasma membrane of an invertebrate epithelial cell. The  
subapical complex lies above the zonula adherens and the septate junction, and is  
comparable to the position of the tight junction of vertebrate cells." [PMID  
1158 Pathogen[ P03346] interacts with 1 human partners:{Q86UT5}  
1159 Pathogen[ P14079] interacts with 1 human partners:{Q86UT5}  
1160 Pathogen[ P03410] interacts with 1 human partners:{Q86UT5}  
1161 Pathogen[ POC206] interacts with 1 human partners:{Q86UT5}  
1162 Pathogen[ P03363] interacts with 1 human partners:{Q86UT5}  
1163 [Cluster 184]GO:0019773+C cellular\_component [name] proteasome core complex,  
alpha-subunit complex [def] "The proteasome core subcomplex that constitutes the two  
outer rings of the proteasome core complex. An example of this component is found in *Mus  
musculus*." [GOC  
1164 Pathogen[ Q2Q067] interacts with 8 human  
partners:{P25787;O14818;P60900;P25788;P25786;P25789;P28066;Q8TAA3}  
1165 Pathogen[ POC214] interacts with 8 human  
partners:{P25789;O14818;P28066;P25788;P25786;Q8TAA3;P25787;P60900}  
1166 Pathogen[ P03346] interacts with 8 human  
partners:{P25787;P25789;P25788;O14818;P60900;P25786;P28066;Q8TAA3}  
1167 Pathogen[ Q85601] interacts with 8 human  
partners:{P28066;P60900;P25787;P25788;P25789;P25786;Q8TAA3;O14818}  
1168 Pathogen[ P14079] interacts with 6 human  
partners:{P25787;Q8TAA3;P60900;O14818;P25788;P28066}  
1169 Pathogen[ P03383] interacts with 8 human



1170 Pathogen[ P03410] interacts with 8 human partners:{P25789;P60900;P25786;P28066;Q8TAA3;O14818;P25787;P25788}

1171 Pathogen[ P14075] interacts with 8 human partners:{P25786;P60900;Q8TAA3;P25787;O14818;P25789;P25788;P28066}

1172 Pathogen[ P0C206] interacts with 8 human partners:{P25788;P28066;Q8TAA3;P60900;P25786;O14818;P25787;P25789}

1173 [Cluster 185]GO:0045239+C cellular\_component [name] tricarboxylic acid cycle enzyme complex [def] "Any of the heteromeric enzymes that act in the TCA cycle." [GOC  
 1174 Pathogen[ Q2Q067] interacts with 1 human partners:{P07954}  
 1175 Pathogen[ P0C214] interacts with 1 human partners:{P07954}  
 1176 Pathogen[ P03346] interacts with 1 human partners:{P07954}  
 1177 Pathogen[ Q85601] interacts with 1 human partners:{P07954}  
 1178 Pathogen[ P14079] interacts with 1 human partners:{P07954}  
 1179 Pathogen[ P03410] interacts with 1 human partners:{P07954}  
 1180 Pathogen[ P0C206] interacts with 1 human partners:{P07954}

1181 [Cluster 186]GO:0030895+C cellular\_component [name] apolipoprotein B mRNA editing enzyme complex [def] "Protein complex that mediates editing of the mRNA encoding apolipoprotein B\_ catalyzes the deamination of C to U (residue 6666 in the human mRNA). Contains a catalytic subunit, APOBEC-1, and other proteins (e.g. human ASP\_ rat ASP and KSRP)." [PMID  
 1182 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9HC16}  
 1183 Pathogen[ P0C214] interacts with 1 human partners:{Q9HC16}  
 1184 Pathogen[ P03346] interacts with 1 human partners:{Q9NQ94}  
 1185 Pathogen[ Q85601] interacts with 1 human partners:{Q9HC16}  
 1186 Pathogen[ P14079] interacts with 2 human partners:{Q9HC16;Q9NQ94}  
 1187 Pathogen[ P03410] interacts with 1 human partners:{Q9HC16}  
 1188 Pathogen[ P0C206] interacts with 1 human partners:{Q9HC16}  
 1189 Pathogen[ P03363] interacts with 1 human partners:{Q9NQ94}

1190 [Cluster 187]GO:0033391+C cellular\_component [name] chromatoid body [def] "A ribonucleoprotein complex found in the cytoplasm of male germ cells, composed of exceedingly thin filaments that are consolidated into a compact mass or into dense strands of varying thickness that branch to form an irregular network. Contains mRNAs, miRNAs, and protein components involved in miRNA processing (such as Argonaute proteins and the endonuclease Dicer) and in RNA decay (such as the decapping enzyme DCPIa and GW182)." [PMID  
 1191 Pathogen[ P03346] interacts with 2 human partners:{Q8NHU6;Q96J94}  
 1192 Pathogen[ P14079] interacts with 2 human partners:{Q8NHU6;Q96JY0}  
 1193 Pathogen[ P03410] interacts with 1 human partners:{Q8NHU6}  
 1194 Pathogen[ P03363] interacts with 3 human partners:{Q8NHU6;Q96JY0;Q96J94}

1195 [Cluster 188]GO:0017146+C cellular\_component [name] N-methyl-D-aspartate selective glutamate receptor complex [def] "An assembly of four or five subunits which form a structure with an extracellular N-terminus and a large loop that together form the ligand binding domain. The C-terminus is intracellular. The ionotropic glutamate receptor complex itself acts as a ligand gated ion channel\_ on binding glutamate, charged ions pass through a channel in the center of the receptor complex. NMDA receptors are composed of assemblies of NR1 subunits (Figure 3) and NR2 subunits, which can be one of four separate gene products (NR2A-D). Expression of both subunits are required to form functional channels. The glutamate binding domain is formed at the junction of NR1 and NR2 subunits. NMDA receptors are permeable to calcium ions as well as being permeable to other ions. Thus NMDA receptor activation leads to a calcium influx into the post-synaptic cells, a signal thought to be crucial for the induction of NMDA-receptor dependent LTP and LTD." [http  
 1196 Pathogen[ P03346] interacts with 1 human partners:{Q12929}  
 1197 Pathogen[ P14079] interacts with 1 human partners:{Q12929}  
 1198 Pathogen[ P03410] interacts with 1 human partners:{Q12929}  
 1199 Pathogen[ P03363] interacts with 1 human partners:{Q12929}

1200 [Cluster 189]GO:0009348+C cellular\_component [name] ornithine carbamoyltransferase complex [def] "A homotrimeric protein complex that catalyzes the transfer of a carbamoyl group to ornithine, forming citrulline." [EC  
 1201 Pathogen[ P0C214] interacts with 1 human partners:{P00480}  
 1202 Pathogen[ Q85601] interacts with 1 human partners:{P00480}  
 1203 Pathogen[ P14079] interacts with 1 human partners:{P00480}  
 1204 Pathogen[ P03410] interacts with 1 human partners:{P00480}  
 1205 Pathogen[ P0C206] interacts with 1 human partners:{P00480}

1206 [Cluster 190]GO:0044430+C cellular\_component [name] cytoskeletal part [def] "Any constituent part of the cytoskeleton, a cellular scaffolding or skeleton that maintains cell shape, enables some cell motion (using structures such as flagella and cilia), and plays important roles in both intra-cellular transport (e.g. the movement of vesicles and organelles) and cellular division. Includes constituent parts of intermediate filaments, microfilaments, microtubules, and the microtrabecular lattice." [GOC  
 1207 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9Y6M1}  
 1208 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y6M1}  
 1209 Pathogen[ P03346] interacts with 1 human partners:{Q9Y6M1}  
 1210 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y6M1}  
 1211 Pathogen[ P14079] interacts with 1 human partners:{Q9Y6M1}

1212 Pathogen[ P03410] interacts with 1 human partners:{Q9Y6M1}

1213 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y6M1}

1214 Pathogen[ P03363] interacts with 1 human partners:{Q9Y6M1}

1215 [Cluster 191]GO:0031105+C cellular\_component [name] septin complex [def] "Any of several heterooligomeric complexes containing multiple septins." [GOC

1216 Pathogen[ P03346] interacts with 5 human partners:{Q8WYJ6;Q14141;Q92599;Q15019;Q6ZU15}

1217 Pathogen[ Q85601] interacts with 1 human partners:{Q8WYJ6}

1218 Pathogen[ P14079] interacts with 1 human partners:{Q8WYJ6}

1219 Pathogen[ P03410] interacts with 2 human partners:{Q6ZU15;Q8WYJ6}

1220 Pathogen[ P0C206] interacts with 5 human partners:{Q15019;Q14141;Q6ZU15;Q8WYJ6;Q16181}

1221 Pathogen[ P03363] interacts with 7 human partners:{Q8WYJ6;Q9NVA2;Q8IYM1;Q92599;Q6ZU15;Q14141;Q99719}

1222 [Cluster 192]GO:0042101+C cellular\_component [name] T cell receptor complex [def] "A protein complex that contains a disulfide-linked heterodimer of T cell receptor (TCR) chains, which are members of the immunoglobulin superfamily, and mediates antigen recognition, ultimately resulting in T cell activation. The TCR heterodimer is associated with the CD3 complex, which consists of the nonpolymorphic polypeptides gamma, delta, epsilon, zeta, and, in some cases, eta (an RNA splice variant of zeta) or Fc epsilon chains." [GOC

1223 Pathogen[ Q2Q067] interacts with 1 human partners:{O95999}

1224 Pathogen[ P0C214] interacts with 1 human partners:{O95999}

1225 Pathogen[ P03346] interacts with 1 human partners:{O95999}

1226 Pathogen[ Q85601] interacts with 1 human partners:{O95999}

1227 Pathogen[ P14079] interacts with 3 human partners:{Q9BXL7;O95999;Q6PIZ9}

1228 Pathogen[ P03383] interacts with 1 human partners:{O95999}

1229 Pathogen[ P03410] interacts with 4 human partners:{P20963;Q6PIZ9;O95999;Q9BXL7}

1230 Pathogen[ P14075] interacts with 1 human partners:{O95999}

1231 Pathogen[ P0C206] interacts with 1 human partners:{O95999}

1232 [Cluster 193]GO:0032591+C cellular\_component [name] dendritic spine membrane [def] "The portion of the plasma membrane surrounding a dendritic spine." [GOC

1233 Pathogen[ Q2Q067] interacts with 1 human partners:{O94850}

1234 Pathogen[ P0C214] interacts with 1 human partners:{O94850}

1235 Pathogen[ P03346] interacts with 1 human partners:{O94850}

1236 Pathogen[ P14079] interacts with 3 human partners:{P24588;B4DS77;O94850}

1237 Pathogen[ P03383] interacts with 1 human partners:{O94850}

1238 Pathogen[ P03410] interacts with 3 human partners:{O94850;B4DS77;P24588}

1239 Pathogen[ P14075] interacts with 1 human partners:{O94850}

1240 Pathogen[ P0C206] interacts with 1 human partners:{O94850}

1241 Pathogen[ P03363] interacts with 1 human partners:{O94850}

1242 [Cluster 194]GO:0005790+C cellular\_component [name] smooth endoplasmic reticulum [def] "The smooth endoplasmic reticulum (ER) has with no ribosomes attached to it. The smooth is the recipient of the proteins synthesized in the rough ER. Those proteins to be exported are passed to the Golgi complex, the resident proteins are returned to the rough ER and the lysosomal proteins after phosphorylation of their mannose residues are passed to the lysosomes. Glycosylation of the glycoproteins also continues. The smooth ER is the site of synthesis of lipids, including the phospholipids. The membranes of the smooth ER also contain enzymes that catalyze a series of reactions to detoxify both lipid-soluble drugs and harmful products of metabolism. Large quantities of certain compounds such as phenobarbital cause an increase in the amount of the smooth ER." [ISBN

1243 Pathogen[ P03346] interacts with 1 human partners:{O95166}

1244 Pathogen[ Q85601] interacts with 1 human partners:{O95166}

1245 Pathogen[ P14079] interacts with 1 human partners:{O95166}

1246 Pathogen[ P03410] interacts with 1 human partners:{O95166}

1247 Pathogen[ P0C206] interacts with 1 human partners:{O95166}

1248 Pathogen[ P03363] interacts with 1 human partners:{O95166}

1249 [Cluster 195]GO:0000789+C cellular\_component [name] cytoplasmic chromatin [def] "The ordered and organized complex of DNA, protein, and sometimes RNA, that forms the chromosome in the cytoplasm." [GOC

1250 Pathogen[ P03346] interacts with 1 human partners:{Q86SE8}

1251 Pathogen[ Q85601] interacts with 1 human partners:{Q86SE8}

1252 Pathogen[ P03410] interacts with 1 human partners:{Q86SE8}

1253 Pathogen[ P0C206] interacts with 1 human partners:{Q86SE8}

1254 Pathogen[ P03363] interacts with 1 human partners:{Q86SE8}

1255 [Cluster 196]GO:0009279+C cellular\_component [name] cell outer membrane [def] "A lipid bilayer that forms the outermost layer of the cell envelope\_ enriched in polysaccharide and protein\_ the outer leaflet of the membrane contains specific lipopolysaccharide structures." [GOC

1256 Pathogen[ P14079] interacts with 1 human partners:{Q14118}

1257 Pathogen[ P03410] interacts with 1 human partners:{Q14118}

1258 [Cluster 197]GO:0005952+C cellular\_component [name] cAMP-dependent protein kinase complex [def] "An enzyme complex, composed of regulatory and catalytic subunits, that catalyzes protein phosphorylation. Inactive forms of the enzyme have two regulatory chains and two catalytic chains\_ activation by cAMP produces two active catalytic monomers and a regulatory dimer." [EC

1259 Pathogen[ P14079] interacts with 1 human partners:{Q5JQC9}

1260 Pathogen[ P03410] interacts with 1 human partners:{Q5JQC9}

1261 Pathogen[ P0C206] interacts with 1 human partners:{Q5JQC9}

1262 [Cluster 198]GO:0045092+C cellular\_component [name] interleukin-18 receptor complex [def] "A protein complex that binds interleukin-18\_ comprises an alpha and a beta subunit." [GOC]

1263 Pathogen[ P0C214] interacts with 1 human partners:{Q9H0E2}

1264 Pathogen[ P03346] interacts with 1 human partners:{Q9H0E2}

1265 Pathogen[ P14079] interacts with 1 human partners:{Q9H0E2}

1266 Pathogen[ P03410] interacts with 1 human partners:{Q9H0E2}

1267 Pathogen[ P0C206] interacts with 1 human partners:{Q9H0E2}

1268 Pathogen[ P03363] interacts with 1 human partners:{Q9H0E2}

1269 [Cluster 199]GO:0030125+C cellular\_component [name] clathrin vesicle coat [def] "A clathrin coat found on a vesicle." [GOC]

1270 Pathogen[ P14079] interacts with 2 human partners:{Q8NC96;Q9NVZ3}

1271 Pathogen[ P03410] interacts with 2 human partners:{Q8NC96;Q9NVZ3}

1272 Pathogen[ P0C206] interacts with 1 human partners:{Q8NC96}

1273 [Cluster 200]GO:0044441+C cellular\_component [name] cilium part [def] "Any constituent part of a cilium, a specialized eukaryotic organelle that consists of a filiform extrusion of the cell surface. Each cilium is bounded by an extrusion of the cytoplasmic membrane, and contains a regular longitudinal array of microtubules, anchored basally in a centriole." [GOC]

1274 Pathogen[ P03346] interacts with 1 human partners:{Q8TAM2}

1275 Pathogen[ P14079] interacts with 1 human partners:{Q8TAM2}

1276 Pathogen[ P03410] interacts with 1 human partners:{Q8TAM2}

1277 Pathogen[ P0C206] interacts with 1 human partners:{Q8TAM2}

1278 Pathogen[ P03363] interacts with 1 human partners:{Q8TAM2}

1279 [Cluster 201]GO:0071547+C cellular\_component [name] piP-body [def] "A P granule that contains the PIWIL4-TDRD9 module, a set of proteins that act in the secondary piRNA pathway." [GOC]

1280 Pathogen[ P14079] interacts with 1 human partners:{Q96JY0}

1281 Pathogen[ P03363] interacts with 2 human partners:{Q7Z3Z4;Q96JY0}

1282 [Cluster 202]GO:0005947+C cellular\_component [name] mitochondrial alpha-ketoglutarate dehydrogenase complex [def] "Mitochondrial complex that possesses alpha-ketoglutarate dehydrogenase activity." [GOC]

1283 Pathogen[ Q2Q067] interacts with 1 human partners:{P21953}

1284 Pathogen[ P0C214] interacts with 2 human partners:{P12694;P21953}

1285 Pathogen[ Q85601] interacts with 1 human partners:{P21953}

1286 Pathogen[ P14079] interacts with 1 human partners:{P21953}

1287 Pathogen[ P03410] interacts with 2 human partners:{P12694;P21953}

1288 Pathogen[ P0C206] interacts with 1 human partners:{P21953}

1289 [Cluster 203]GO:0043205+C cellular\_component [name] fibril [def] "Extracellular matrix material consisting of polysaccharides and protein." [PMID]

1290 Pathogen[ P14079] interacts with 1 human partners:{A1E959}

1291 Pathogen[ P03410] interacts with 1 human partners:{A1E959}

1292 [Cluster 204]GO:0043219+C cellular\_component [name] lateral loop [def] "Non-compact myelin located adjacent to the nodes of Ranvier in a myelin segment. These non-compact regions include cytoplasm from the cell responsible for synthesizing the myelin. Lateral loops are found in the paranodal region adjacent to the nodes of Ranvier, while Schmidt-Lantermann clefts are analogous structures found within the compact myelin internode." [GOC]

1293 Pathogen[ Q2Q067] interacts with 1 human partners:{Q12959}

1294 Pathogen[ P0C214] interacts with 1 human partners:{Q12959}

1295 Pathogen[ P03346] interacts with 2 human partners:{Q8N3R9;Q12959}

1296 Pathogen[ Q85601] interacts with 1 human partners:{Q12959}

1297 Pathogen[ P14079] interacts with 1 human partners:{Q8N3R9}

1298 Pathogen[ P03410] interacts with 2 human partners:{Q12959;Q8N3R9}

1299 Pathogen[ P0C206] interacts with 2 human partners:{Q8N3R9;Q12959}

1300 Pathogen[ P03363] interacts with 2 human partners:{Q12959;Q8N3R9}

1301 [Cluster 205]GO:0044433+C cellular\_component [name] cytoplasmic vesicle part [def] "Any constituent part of cytoplasmic vesicle, a vesicle formed of membrane or protein, found in the cytoplasm of a cell." [GOC]

1302 Pathogen[ P14079] interacts with 1 human partners:{Q8IZA0}

1303 Pathogen[ P03410] interacts with 1 human partners:{Q8IZA0}

1304 [Cluster 206]GO:0005899+C cellular\_component [name] insulin receptor complex [def] "A disulfide-bonded, heterotetrameric receptor complex. The alpha chains are entirely extracellular, while each beta chain has one transmembrane domain. The ligand binds to the alpha subunit extracellular domain and the kinase is associated with the beta subunit intracellular domain." [ISBN]

1305 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BX66}

1306 Pathogen[ P0C214] interacts with 1 human partners:{Q9BX66}

1307 Pathogen[ P03346] interacts with 1 human partners:{Q9BX66}

1308 Pathogen[ Q85601] interacts with 1 human partners:{Q9BX66}

1309 Pathogen[ P14079] interacts with 1 human partners:{Q9BX66}

1310 Pathogen[ P03410] interacts with 1 human partners:{Q9BX66}

1311 Pathogen[ P0C206] interacts with 1 human partners:{Q9BX66}

1312 Pathogen[ P03363] interacts with 1 human partners:{Q9BX66}

1313 [Cluster 207]GO:0000126+C cellular\_component [name] transcription factor TFIIIB complex [def] "A transcription factor complex that is involved in regulating transcription from RNA polymerase III (Pol III) promoters. TFIIIB contains the TATA-binding protein (TBP) and two Pol III-specific proteins, B' and BRF." [GOC]

1314 Pathogen[ Q2Q067] interacts with 1 human partners:{Q92994}

1315 Pathogen[ P0C214] interacts with 1 human partners:{Q92994}

1316 Pathogen[ P03346] interacts with 1 human partners:{Q92994}

1317 Pathogen[ Q85601] interacts with 1 human partners:{Q92994}

1318 Pathogen[ P14079] interacts with 1 human partners:{Q92994}

1319 Pathogen[ P03383] interacts with 1 human partners:{Q92994}

1320 Pathogen[ P03410] interacts with 1 human partners:{Q92994}

1321 Pathogen[ P14075] interacts with 1 human partners:{Q92994}

1322 Pathogen[ P0C206] interacts with 1 human partners:{Q92994}

1323 [Cluster 208]GO:0019866+C cellular\_component [name] organelle inner membrane [def] "The inner, i.e. lumen-facing, lipid bilayer of an organelle envelope\_ usually highly selective to most ions and metabolites." [GOC]

1324 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8WWR8}

1325 Pathogen[ P0C214] interacts with 1 human partners:{Q8WWR8}

1326 Pathogen[ P03346] interacts with 1 human partners:{Q8WWR8}

1327 Pathogen[ P14079] interacts with 1 human partners:{Q8WWR8}

1328 Pathogen[ P03383] interacts with 1 human partners:{Q8WWR8}

1329 Pathogen[ P03410] interacts with 1 human partners:{Q8WWR8}

1330 Pathogen[ P14075] interacts with 1 human partners:{Q8WWR8}

1331 Pathogen[ P0C206] interacts with 1 human partners:{Q8WWR8}

1332 [Cluster 209]GO:0070971+C cellular\_component [name] endoplasmic reticulum exit site [def] "An endoplasmic reticulum part at which COPII-coated vesicles are produced." [PMID]

1333 Pathogen[ P14079] interacts with 1 human partners:{Q969M3}

1334 Pathogen[ P03410] interacts with 1 human partners:{Q969M3}

1335 Pathogen[ P0C206] interacts with 1 human partners:{Q969M3}

1336 [Cluster 210]GO:0002079+C cellular\_component [name] inner acrosomal membrane [def] "The acrosomal membrane region that underlies the acrosomal vesicle and is located toward the sperm nucleus. This region is responsible for molecular interactions allowing the sperm to penetrate the zona pellucida and fuses with the egg plasma membrane." [GOC]

1337 Pathogen[ P14079] interacts with 1 human partners:{Q9NQ60}

1338 Pathogen[ P03410] interacts with 1 human partners:{Q9NQ60}

1339 [Cluster 211]GO:0005753+C cellular\_component [name] mitochondrial proton-transporting ATP synthase complex [def] "A proton-transporting ATP synthase complex found in the mitochondrial membrane." [GOC]

1340 Pathogen[ Q2Q067] interacts with 2 human partners:{Q9UII2;P24539}

1341 Pathogen[ P0C214] interacts with 3 human partners:{P36542;Q9UII2;P24539}

1342 Pathogen[ P03346] interacts with 2 human partners:{Q9UII2;P24539}

1343 Pathogen[ Q85601] interacts with 2 human partners:{P24539;Q9UII2}

1344 Pathogen[ P14079] interacts with 10 human partners:{P36542;P56134;P25705;P56378;Q9UII2;P56385;P03928;O75964;P56381;P24539}

1345 Pathogen[ P03383] interacts with 2 human partners:{Q9UII2;P24539}

1346 Pathogen[ P03410] interacts with 12 human partners:{P36542;P25705;P56378;P56385;P56381;Q9UII2;P03928;P24539;O75964;Q96IX5;P18859;P56134}

1347 Pathogen[ P14075] interacts with 4 human partners:{Q9UII2;P56378;P24539;P56385}

1348 Pathogen[ P0C206] interacts with 5 human partners:{P36542;P24539;P56381;P56385;Q9UII2}

1349 [Cluster 212]GO:0000799+C cellular\_component [name] nuclear condensin complex [def] "A multisubunit protein complex that plays a central role in the condensation of chromosomes that remain in the nucleus." [GOC]

1350 Pathogen[ Q2Q067] interacts with 1 human partners:{P42695}

1351 Pathogen[ P0C214] interacts with 1 human partners:{P42695}

1352 Pathogen[ P03346] interacts with 1 human partners:{P42695}

1353 Pathogen[ Q85601] interacts with 1 human partners:{P42695}

1354 Pathogen[ P14079] interacts with 1 human partners:{P42695}

1355 Pathogen[ P03410] interacts with 1 human partners:{P42695}

1356 Pathogen[ P0C206] interacts with 1 human partners:{P42695}

1357 Pathogen[ P03363] interacts with 1 human partners:{P42695}

1358 [Cluster 213]GO:0032593+C cellular\_component [name] insulin-responsive compartment [def] "A small membrane-bounded vesicle that releases its contents by exocytosis in response to insulin stimulation\_ the contents are enriched in GLUT4, IRAP and VAMP2." [PMID]

1359 Pathogen[ Q2Q067] interacts with 1 human partners:{P14672}

1360 Pathogen[ P0C214] interacts with 1 human partners:{P14672}

1361 Pathogen[ P03346] interacts with 1 human partners:{P14672}

1362 Pathogen[ Q85601] interacts with 1 human partners:{P14672}

1363 Pathogen[ P14079] interacts with 2 human partners:{P31751;P14672}

1364 Pathogen[ P03383] interacts with 1 human partners:{P14672}

1365 Pathogen[ P14075] interacts with 1 human partners:{P14672}

1366 Pathogen[ P0C206] interacts with 1 human partners:{P14672}

1367 Pathogen[ P03363] interacts with 1 human partners:{P14672}

1368 [Cluster 214]GO:0030315+C cellular\_component [name] T-tubule [def] "Invagination of the plasma membrane of a muscle cell that extends inward from the cell surface around each myofibril. The ends of T-tubules make contact with the sarcoplasmic reticulum membrane." [GOC]

1369 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9P0M2}

1370 Pathogen[ P0C214] interacts with 1 human partners:{Q9P0M2}

1371 Pathogen[ P03346] interacts with 1 human partners:{Q9P0M2}

1372 Pathogen[ Q85601] interacts with 1 human partners:{Q9P0M2}

1373 Pathogen[ P14079] interacts with 1 human partners:{Q9P0M2}

1374 Pathogen[ P03410] interacts with 1 human partners:{Q9P0M2}

1375 Pathogen[ P0C206] interacts with 1 human partners:{Q9P0M2}

1376 Pathogen[ P03363] interacts with 1 human partners:{Q9P0M2}

1377 [Cluster 215]GO:0033180+C cellular\_component [name] proton-transporting V-type ATPase, V1 domain [def] "A protein complex that forms part of a proton-transporting V-type ATPase and catalyzes ATP hydrolysis. The V1 complex consists of

1378 Pathogen[ P0C214] interacts with 1 human partners:{Q16864}

1379 Pathogen[ P03346] interacts with 2 human partners:{P21283;Q16864}

1380 Pathogen[ P14079] interacts with 1 human partners:{Q16864}

1381 Pathogen[ P03410] interacts with 1 human partners:{Q16864}

1382 Pathogen[ P0C206] interacts with 1 human partners:{Q16864}

1383 [Cluster 216]GO:0042583+C cellular\_component [name] chromaffin granule [def] "Specialized secretory vesicle found in the cells of adrenal glands and various other organs, which is concerned with the synthesis, storage, metabolism, and secretion of epinephrine and norepinephrine." [GOC]

1384 Pathogen[ P0C214] interacts with 1 human partners:{P10909}

1385 Pathogen[ P14079] interacts with 1 human partners:{P10909}

1386 Pathogen[ P03410] interacts with 1 human partners:{P10909}

1387 Pathogen[ P0C206] interacts with 1 human partners:{P10909}

1388 [Cluster 217]GO:0046658+C cellular\_component [name] anchored to plasma membrane [def] "Tethered to the plasma membrane by a covalently attached anchor, such as a lipid group, that is embedded in the membrane. When used to describe a protein, indicates that the peptide sequence does not span the membrane." [GOC]

1389 Pathogen[ P14079] interacts with 1 human partners:{P54826}

1390 Pathogen[ P03410] interacts with 1 human partners:{P54826}

1391 Pathogen[ P14075] interacts with 1 human partners:{P54826}

1392 Pathogen[ P0C206] interacts with 1 human partners:{P54826}

1393 [Cluster 218]GO:0045261+C cellular\_component [name] proton-transporting ATP synthase complex, catalytic core F(1) [def] "The sector of a hydrogen-transporting ATP synthase complex in which the catalytic activity resides\_ it comprises the catalytic core and central stalk, and is peripherally associated with a membrane, such as the plasma membrane or the mitochondrial inner membrane, when the entire ATP synthase is assembled." [GOC]

1394 Pathogen[ P0C214] interacts with 1 human partners:{P36542}

1395 Pathogen[ P14079] interacts with 4 human partners:{P36542;P25705;Q5VTU8;P56381}

1396 Pathogen[ P03410] interacts with 4 human partners:{P36542;P25705;P56381;Q5VTU8}

1397 Pathogen[ P0C206] interacts with 2 human partners:{P36542;P56381}

1398 [Cluster 219]GO:0019028+C cellular\_component [name] viral capsid [def] "The protein coat that surrounds the infective nucleic acid in some virus particles. It comprises numerous regularly arranged subunits, or capsomeres." [GOC]

1399 Pathogen[ P14079] interacts with 2 human partners:{P61550;Q8N8A4}

1400 Pathogen[ P03410] interacts with 3 human partners:{P61550;P87889;Q8N8A4}

1401 Pathogen[ P0C206] interacts with 1 human partners:{P87889}

1402 [Cluster 220]GO:0072558+C cellular\_component [name] NLRP1 inflammasome complex [def] "A protein complex that consists of two components, NLRP1 (NALP1) and caspase-1 or caspase-5. The exact mechanisms of NLRP1 activation remain obscure, but potassium ion efflux appears to be essential." [GOC]

1403 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9C000}

1404 Pathogen[ P0C214] interacts with 1 human partners:{Q9C000}

1405 Pathogen[ P03346] interacts with 1 human partners:{Q9C000}

1406 Pathogen[ P14079] interacts with 1 human partners:{Q9C000}

1407 Pathogen[ P03410] interacts with 1 human partners:{Q9C000}

1408 Pathogen[ P0C206] interacts with 1 human partners:{Q9C000}

1409 Pathogen[ P03363] interacts with 1 human partners:{Q9C000}

1410 [Cluster 221]GO:0046930+C cellular\_component [name] pore complex [def] "Any small opening in a membrane that allows the passage of gases and/or liquids." [ISBN]

1411 Pathogen[ Q2Q067] interacts with 1 human partners:{P37198}

1412 Pathogen[ P0C214] interacts with 1 human partners:{P37198}

1413 Pathogen[ P03346] interacts with 1 human partners:{P37198}

1414 Pathogen[ P14079] interacts with 1 human partners:{P37198}

1415 Pathogen[ P03383] interacts with 1 human partners:{P37198}

1416 Pathogen[ P14075] interacts with 1 human partners:{P37198}

1417 Pathogen[ P03363] interacts with 1 human partners:{P37198}

1418 [Cluster 222]GO:0005927+C cellular\_component [name] muscle tendon junction [def] "A cell-substrate junction found at the terminal anchorage site of skeletal muscle cells to tendons." [GOC]

1419 Pathogen[ P03346] interacts with 1 human partners:{Q9UHP9}

1420 Pathogen[ P14079] interacts with 2 human partners:{Q9UHP9;Q9BR09}

1421 Pathogen[ P03410] interacts with 2 human partners:{Q9UHP9;Q9BR09}

1422 Pathogen[ P14075] interacts with 1 human partners:{Q9UHP9}

1423 Pathogen[ P0C206] interacts with 2 human partners:{Q9UHP9;Q9BR09}

1424 Pathogen[ P03363] interacts with 2 human partners:{Q9UHP9;Q9BR09}

1425 [Cluster 223]GO:0044456+C cellular\_component [name] synapse part [def] "Any constituent part of a synapse, the junction between a nerve fiber of one neuron and another neuron or muscle fiber or glial cell." [GOC

1426 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9UPA5}

1427 Pathogen[ P03346] interacts with 1 human partners:{Q9UPA5}

1428 Pathogen[ Q85601] interacts with 1 human partners:{Q9UPA5}

1429 Pathogen[ P14079] interacts with 1 human partners:{Q9UPA5}

1430 Pathogen[ P03410] interacts with 1 human partners:{Q9UPA5}

1431 Pathogen[ P14075] interacts with 1 human partners:{Q9UPA5}

1432 Pathogen[ P0C206] interacts with 1 human partners:{Q9UPA5}

1433 Pathogen[ P03363] interacts with 1 human partners:{Q9UPA5}

1434 [Cluster 224]GO:0009295+C cellular\_component [name] nucleoid [def] "The region of a bacterial cell, mitochondrion or chloroplast to which the DNA is confined." [GOC

1435 Pathogen[ Q2Q067] interacts with 1 human partners:{P11388}

1436 Pathogen[ P0C214] interacts with 1 human partners:{P11388}

1437 Pathogen[ P03346] interacts with 1 human partners:{P11388}

1438 Pathogen[ Q85601] interacts with 1 human partners:{P11388}

1439 Pathogen[ P14079] interacts with 1 human partners:{P11388}

1440 Pathogen[ P03410] interacts with 1 human partners:{P11388}

1441 Pathogen[ P0C206] interacts with 1 human partners:{P11388}

1442 [Cluster 225]GO:0097136+C cellular\_component [name] Bcl-2 family protein complex [def] "A protein complex that consists of members of the Bcl-2 family of anti- and proapoptotic regulators. Bcl-2 proteins respond to cues from various forms of intracellular stress, such as DNA damage or cytokine deprivation, and interact with opposing family members to determine whether or not the caspase proteolytic cascade should be unleashed." [GOC

1443 Pathogen[ P03346] interacts with 1 human partners:{Q07820}

1444 Pathogen[ P03363] interacts with 1 human partners:{Q07820}

1445 [Cluster 226]GO:0005858+C cellular\_component [name] axonemal dynein complex [def] "A dynein complex found in eukaryotic cilia and flagella\_ the motor domain heads interact with adjacent microtubules to generate a sliding force which is converted to a bending motion. May contain two or three dynein heavy chains as well as several light chains." [ISBN

1446 Pathogen[ P0C214] interacts with 1 human partners:{O14645}

1447 Pathogen[ P03346] interacts with 1 human partners:{O14645}

1448 Pathogen[ Q85601] interacts with 2 human partners:{O96015;O14645}

1449 Pathogen[ P14079] interacts with 3 human partners:{Q9GZS0;O14645;O96015}

1450 Pathogen[ P03410] interacts with 4 human partners:{Q8TCX1;O14645;Q9GZS0;O96015}

1451 Pathogen[ P0C206] interacts with 2 human partners:{O14645;O96015}

1452 Pathogen[ P03363] interacts with 2 human partners:{Q9GZS0;O14645}

1453 [Cluster 227]GO:0005750+C cellular\_component [name] mitochondrial respiratory chain complex III [def] "A protein complex located in the mitochondrial inner membrane that forms part of the mitochondrial respiratory chain. Contains about 10 polypeptide subunits including four redox centers

1454 Pathogen[ P0C214] interacts with 1 human partners:{P22695}

1455 Pathogen[ P14079] interacts with 3 human partners:{P22695;P07919;P00156}

1456 Pathogen[ P03410] interacts with 3 human partners:{P07919;P22695;P00156}

1457 Pathogen[ P0C206] interacts with 1 human partners:{P22695}

1458 [Cluster 228]GO:0016471+C cellular\_component [name] vacuolar proton-transporting V-type ATPase complex [def] "A proton-transporting two-sector ATPase complex found in the vacuolar membrane, where it acts as a proton pump to mediate acidification of the vacuolar lumen." [GOC

1459 Pathogen[ P0C214] interacts with 1 human partners:{Q16864}

1460 Pathogen[ P03346] interacts with 2 human partners:{Q9Y5K8;Q16864}

1461 Pathogen[ P14079] interacts with 6 human partners:{Q9Y5K8;P61421;Q96LB4;Q8N8Y2;O95670;Q16864}

1462 Pathogen[ P03410] interacts with 7 human partners:{Q8N8Y2;P61421;Q96LB4;O95670;Q16864;Q9Y5K8;O75348}

1463 Pathogen[ P0C206] interacts with 2 human partners:{Q9Y5K8;Q16864}

1464 Pathogen[ P03363] interacts with 1 human partners:{Q9Y5K8}

1465 [Cluster 229]GO:0097038+C cellular\_component [name] perinuclear endoplasmic reticulum [def] "The portion of endoplasmic reticulum, the intracellular network of tubules and cisternae, that occurs near the nucleus. The lumen of the perinuclear endoplasmic reticulum is contiguous with the nuclear envelope lumen (also called perinuclear space), the region between the inner and outer nuclear membranes." [GOC

1466 Pathogen[ P14079] interacts with 1 human partners:{P13498}

1467 [Cluster 230]GO:0030485+C cellular\_component [name] smooth muscle contractile fiber [def] "The contractile fiber of smooth muscle cells." [GOC

1468 Pathogen[ P0C214] interacts with 2 human partners:{P62736;P35749}

1469 Pathogen[ P03346] interacts with 1 human partners:{P62736}

1470 Pathogen[ Q85601] interacts with 2 human partners:{P35749;P62736}

1471 Pathogen[ P03410] interacts with 1 human partners:{P62736}

1472 Pathogen[ P0C206] interacts with 2 human partners:{P62736;P35749}

1473 Pathogen[ P03363] interacts with 1 human partners:{P62736}

1474 [Cluster 231]GO:0043514+C cellular\_component [name] interleukin-12 complex [def] "A protein complex that is composed of an interleukin-12 alpha (p35, product of the IL12A gene) and an interleukin-12 beta subunit (p40, product of the IL12B gene) and is secreted into the extracellular space." [GOC

1475 Pathogen[ P14079] interacts with 1 human partners:{P29459}

1476 Pathogen[ P03410] interacts with 1 human partners:{P29459}

1477 [Cluster 232]GO:0005581+C cellular\_component [name] collagen [def] "Any of the various assemblies in which collagen chains form a left-handed triple helix\_ may assemble into higher order structures." [GOC

1478 Pathogen[ P03346] interacts with 2 human partners:{Q9Y215;Q9C0J8}

1479 Pathogen[ P14079] interacts with 1 human partners:{Q6AZY7}

1480 Pathogen[ P03410] interacts with 2 human partners:{Q6AZY7;Q9Y215}

1481 Pathogen[ P03363] interacts with 1 human partners:{Q9Y215}

1482 [Cluster 233]GO:0032280+C cellular\_component [name] symmetric synapse [def] "A type of synapse occurring primarily on dendrite shafts and neuronal cell bodies. Symmetric synapses involve axons containing clusters of predominantly flattened or elongated vesicles and do not contain a prominent postsynaptic density." [GOC

1483 Pathogen[ P03346] interacts with 1 human partners:{Q9Y6D5}

1484 Pathogen[ P14079] interacts with 1 human partners:{Q9Y6D5}

1485 Pathogen[ P03410] interacts with 1 human partners:{Q9Y6D5}

1486 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y6D5}

1487 [Cluster 234]GO:0071141+C cellular\_component [name] SMAD protein complex [def] "A protein complex that consists of SMAD proteins\_ may be homomeric or heteromeric." [GOC

1488 Pathogen[ Q2Q067] interacts with 3 human partners:{Q13485;P84022;Q15796}

1489 Pathogen[ P0C214] interacts with 3 human partners:{P84022;Q13485;Q15796}

1490 Pathogen[ P03346] interacts with 3 human partners:{Q15796;P84022;Q13485}

1491 Pathogen[ Q85601] interacts with 3 human partners:{P84022;Q13485;Q15796}

1492 Pathogen[ P03383] interacts with 3 human partners:{Q13485;P84022;Q15796}

1493 Pathogen[ P03410] interacts with 3 human partners:{P84022;Q13485;Q15796}

1494 Pathogen[ P14075] interacts with 3 human partners:{Q15796;Q13485;P84022}

1495 Pathogen[ P0C206] interacts with 3 human partners:{P84022;Q15796;Q13485}

1496 Pathogen[ P03363] interacts with 3 human partners:{Q15796;P84022;Q13485}

1497 [Cluster 235]GO:0072563+C cellular\_component [name] endothelial microparticle [def] "A blood microparticle that is derived from, and contains membrane receptors as well as other proteins characteristic of, an endothelial cell." [GOC

1498 Pathogen[ P14079] interacts with 1 human partners:{P08758}

1499 [Cluster 236]GO:0010370+C cellular\_component [name] perinucleolar chromocenter [def] "A chromocenter adjacent to the nucleolus." [PMID

1500 Pathogen[ Q2Q067] interacts with 1 human partners:{Q9BSI4}

1501 Pathogen[ P0C214] interacts with 1 human partners:{Q9BSI4}

1502 Pathogen[ P03346] interacts with 1 human partners:{Q9BSI4}

1503 Pathogen[ P14079] interacts with 1 human partners:{Q9BSI4}

1504 Pathogen[ P03383] interacts with 1 human partners:{Q9BSI4}

1505 Pathogen[ P03410] interacts with 1 human partners:{Q9BSI4}

1506 Pathogen[ P14075] interacts with 1 human partners:{Q9BSI4}

1507 Pathogen[ P0C206] interacts with 1 human partners:{Q9BSI4}

1508 Pathogen[ P03363] interacts with 1 human partners:{Q9BSI4}

1509 [Cluster 237]GO:0033179+C cellular\_component [name] proton-transporting V-type ATPase, V0 domain [def] "A protein complex that forms part of a proton-transporting V-type ATPase and mediates proton transport across a membrane. The V0 complex consists of at least four different subunits (a,c,d and e)\_ six or more c subunits form a proton-binding rotor ring." [GOC

1510 Pathogen[ P14079] interacts with 2 human partners:{P61421;Q8N8Y2}

1511 Pathogen[ P03410] interacts with 2 human partners:{Q8N8Y2;P61421}

1512 [Cluster 238]GO:0042025+C cellular\_component [name] host cell nucleus [def] "A membrane-bounded organelle as it is found in the host cell in which chromosomes are housed and replicated. The host is defined as the larger of the organisms involved in a symbiotic interaction." [GOC

1513 Pathogen[ P14079] interacts with 1 human partners:{B2RXF0}

1514 Pathogen[ P03410] interacts with 1 human partners:{B2RXF0}

1515 [Cluster 239]GO:0019867+C cellular\_component [name] outer membrane [def] "The external membrane of Gram-negative bacteria or certain organelles such as mitochondria and chloroplasts\_ freely permeable to most ions and metabolites." [GOC

1516 Pathogen[ P0C214] interacts with 1 human partners:{Q9Y512}

1517 Pathogen[ P03346] interacts with 1 human partners:{Q9Y512}

1518 Pathogen[ Q85601] interacts with 1 human partners:{Q9Y512}

1519 Pathogen[ P14079] interacts with 1 human partners:{Q9Y512}

1520 Pathogen[ P03410] interacts with 1 human partners:{Q9Y512}

1521 Pathogen[ P14075] interacts with 1 human partners:{Q9Y512}

1522 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y512}

1523 Pathogen[ P03363] interacts with 1 human partners:{Q9Y512}

1524 [Cluster 240]GO:0035686+C cellular\_component [name] flagellar fibrous sheath [def] "A cytoskeletal structure surrounding the axoneme and outer dense fibers of the sperm flagellum. Consists of two longitudinal columns connected by closely arrayed semicircular

ribs that assemble from distal to proximal throughout spermiogenesis. The fibrous sheath probably influences the degree of flexibility, plane of flagellar motion, and the shape of the flagellar beat." [GOC

1525 Pathogen[ P14079] interacts with 1 human partners:{075952}

1526 Pathogen[ P03410] interacts with 1 human partners:{075952}

1527 Pathogen[ P0C206] interacts with 1 human partners:{075952}

1528 [Cluster 241]GO:0070557+C cellular\_component [name] PCNA-p21 complex [def] "A protein complex that contains the cyclin-dependent protein kinase inhibitor p21WAF1/CIP1 bound to PCNA\_ formation of the complex inhibits DNA replication." [GOC

1529 Pathogen[ Q2Q067] interacts with 2 human partners:{P12004;P38936}

1530 Pathogen[ P0C214] interacts with 1 human partners:{P38936}

1531 Pathogen[ P03346] interacts with 2 human partners:{P12004;P38936}

1532 Pathogen[ Q85601] interacts with 2 human partners:{P12004;P38936}

1533 Pathogen[ P14079] interacts with 2 human partners:{P38936;P12004}

1534 Pathogen[ P03410] interacts with 2 human partners:{P38936;P12004}

1535 Pathogen[ P0C206] interacts with 2 human partners:{P38936;P12004}

1536 [Cluster 242]GO:0070436+C cellular\_component [name] Grb2-EGFR complex [def] "A protein complex that contains the epidermal growth factor receptor (EGFR) and Grb2, and is involved in linking EGFR activation to the p21-Ras pathway." [GOC

1537 Pathogen[ P0C214] interacts with 1 human partners:{P62993}

1538 Pathogen[ P03346] interacts with 1 human partners:{P62993}

1539 Pathogen[ Q85601] interacts with 1 human partners:{P62993}

1540 Pathogen[ P14079] interacts with 1 human partners:{P62993}

1541 Pathogen[ P03410] interacts with 1 human partners:{P62993}

1542 Pathogen[ P0C206] interacts with 1 human partners:{P62993}

1543 [Cluster 243]GO:0008540+C cellular\_component [name] proteasome regulatory particle, base subcomplex [def] "The subcomplex of the proteasome regulatory particle that directly associates with the proteasome core complex." [GOC

1544 Pathogen[ Q2Q067] interacts with 3 human partners:{075832;000233;Q16401}

1545 Pathogen[ P0C214] interacts with 3 human partners:{075832;000233;Q16401}

1546 Pathogen[ P03346] interacts with 3 human partners:{Q16401;075832;000233}

1547 Pathogen[ Q85601] interacts with 3 human partners:{075832;000233;Q16401}

1548 Pathogen[ P14079] interacts with 3 human partners:{075832;000233;Q16401}

1549 Pathogen[ P03383] interacts with 3 human partners:{000233;075832;Q16401}

1550 Pathogen[ P03410] interacts with 3 human partners:{Q16401;000233;075832}

1551 Pathogen[ P14075] interacts with 3 human partners:{075832;000233;Q16401}

1552 Pathogen[ P0C206] interacts with 3 human partners:{075832;000233;Q16401}

1553 [Cluster 244]GO:0019012+C cellular\_component [name] virion [def] "The complete fully infectious extracellular virus particle." [ISBN

1554 Pathogen[ P0C214] interacts with 2 human partners:{Q14264;P60608}

1555 Pathogen[ P03346] interacts with 2 human partners:{P60608;Q14264}

1556 Pathogen[ Q85601] interacts with 2 human partners:{P60608;Q14264}

1557 Pathogen[ P14079] interacts with 15 human partners:{P61570;Q9UKH3;Q902F9;Q14264;Q9H9K5;O71037;P60608;Q69384;Q9NX77;Q9HDB8;O42043;Q902F8;P61567;P61568;P61566}

1558 Pathogen[ P03383] interacts with 2 human partners:{P60608;Q14264}

1559 Pathogen[ P03410] interacts with 17 human partners:{O71037;P60608;P61565;Q9HDB8;Q9UKH3;Q9NX77;Q69384;P61568;P61567;Q902F9;Q14264;Q9H9K5;Q902F8;P61570;P61566;O42043;Q9N2J8}

1560 Pathogen[ P14075] interacts with 2 human partners:{Q14264;P60608}

1561 Pathogen[ P0C206] interacts with 9 human partners:{Q69384;Q9HDB8;P61568;P60608;Q9UKH3;P61570;P61565;Q14264;Q902F8}

1562 Pathogen[ P03363] interacts with 1 human partners:{Q14264}

1563 [Cluster 245]GO:0031045+C cellular\_component [name] dense core granule [def] "Electron-dense organelle with a granular internal matrix\_ contains proteins destined to be secreted." [PMID

1564 Pathogen[ Q2Q067] interacts with 1 human partners:{Q8NFW9}

1565 Pathogen[ P0C214] interacts with 2 human partners:{Q8NFW9;P62166}

1566 Pathogen[ P03346] interacts with 2 human partners:{P62166;Q8NFW9}

1567 Pathogen[ Q85601] interacts with 2 human partners:{Q8NFW9;P62166}

1568 Pathogen[ P14079] interacts with 2 human partners:{Q8NFW9;P62166}

1569 Pathogen[ P03410] interacts with 2 human partners:{Q8NFW9;P62166}

1570 Pathogen[ P0C206] interacts with 2 human partners:{P62166;Q8NFW9}

1571 Pathogen[ P03363] interacts with 1 human partners:{Q8NFW9}

1572 [Cluster 246]GO:0036128+C

1573 Pathogen[ P03363] interacts with 1 human partners:{P54652}

1574 [Cluster 247]GO:0005623+C cellular\_component [name] cell [def] "The basic structural and functional unit of all organisms. Includes the plasma membrane and any external encapsulating structures such as the cell wall and cell envelope." [GOC

1575 Pathogen[ Q2Q067] interacts with 1 human partners:{P13682}

1576 Pathogen[ P0C214] interacts with 1 human partners:{P13682}

1577 Pathogen[ P03346] interacts with 1 human partners:{P13682}

1578 Pathogen[ Q85601] interacts with 1 human partners:{P13682}

1579 Pathogen[ P14079] interacts with 1 human partners:{P13682}

1580 Pathogen[ P03383] interacts with 1 human partners:{P13682}

1581 Pathogen[ P03410] interacts with 1 human partners:{P13682}



1582 Pathogen[ P0C206] interacts with 1 human partners:{P13682}

1583 Pathogen[ P03363] interacts with 1 human partners:{P13682}

1584 [Cluster 248]GO:0000441+C cellular\_component [name] SSL2-core TFIIH complex [def] "A complex which is part of both the general transcription factor TFIIH and the nucleotide-excision repair factor 3 complex. It is composed of the tightly associated 5 subunit core TFIIH subcomplex plus one additional, more loosely associated subunit. The subunits are well conserved from yeast to humans. In *S. cerevisiae*, the 5-subunit core is composed of Rad3, Tfb1, Tfb2, Ssl1, Tfb4 and the loosely associated subunit is Ssl2p (also called Rad25). In humans, the 5 subunit core is composed of ERCC2, p62, p55, p44, p34 and the loosely associated subunit is XPB." [GOC]

1585 Pathogen[ Q85601] interacts with 1 human partners:{P19447}

1586 Pathogen[ P14079] interacts with 1 human partners:{P19447}

1587 Pathogen[ P03410] interacts with 1 human partners:{P19447}

1588 Pathogen[ P0C206] interacts with 1 human partners:{P19447}

1589 [Cluster 249]GO:0030956+C cellular\_component [name] glutamyl-tRNA(Gln) amidotransferase complex [def] "A protein complex that possesses glutamyl-tRNA(Gln) amidotransferase activity, and therefore creates Gln-tRNA by amidating Glu-tRNA\_ usually composed of 3 subunits

1590 Pathogen[ P14079] interacts with 3 human partners:{O75879;O43716;Q9H0R6}

1591 Pathogen[ P03410] interacts with 2 human partners:{O75879;Q9H0R6}

1592 [Cluster 250]GO:0016011+C cellular\_component [name] dystroglycan complex [def] "A protein complex that includes alpha- and beta-dystroglycan, which are alternative products of the same gene\_ the laminin-binding component of the dystrophin-associated glycoprotein complex, providing a link between the subsarcolemmal cytoskeleton (in muscle cells) and the extracellular matrix. Alpha-dystroglycan is an extracellular protein binding to alpha-laminin and to beta-dystroglycan\_ beta-dystroglycan is a transmembrane protein which binds alpha-dystroglycan and dystrophin." [PMID]

1593 Pathogen[ P14079] interacts with 1 human partners:{Q14118}

1594 Pathogen[ P03410] interacts with 1 human partners:{Q14118}

1595 [Cluster 251]GO:0030660+C cellular\_component [name] Golgi-associated vesicle membrane [def] "The lipid bilayer surrounding a vesicle associated with the Golgi apparatus." [GOC]

1596 Pathogen[ Q85601] interacts with 1 human partners:{Q8N6T3}

1597 Pathogen[ P14079] interacts with 2 human partners:{Q9Y287;B7ZAQ6}

1598 Pathogen[ P03410] interacts with 2 human partners:{B7ZAQ6;Q9Y287}

1599 Pathogen[ P14075] interacts with 1 human partners:{Q9Y287}

1600 Pathogen[ P0C206] interacts with 3 human partners:{Q8N6T3;Q9Y287;B7ZAQ6}

1601 [Cluster 252]GO:0031301+C cellular\_component [name] integral to organelle membrane [def] "Penetrating at least one phospholipid bilayer of an organelle membrane. May also refer to the state of being buried in the bilayer with no exposure outside the bilayer." [GOC]

1602 Pathogen[ P14079] interacts with 2 human partners:{Q9Y287;Q96AW1}

1603 Pathogen[ P03410] interacts with 2 human partners:{Q96AW1;Q9Y287}

1604 Pathogen[ P14075] interacts with 1 human partners:{Q9Y287}

1605 Pathogen[ P0C206] interacts with 1 human partners:{Q9Y287}

1606 [Cluster 253]GO:0031235+C cellular\_component [name] intrinsic to internal side of plasma membrane [def] "Located in the plasma membrane such that some covalently attached portion of the gene product, for example part of a peptide sequence or some other covalently attached group such as a GPI anchor, spans or is embedded in one or both leaflets of the membrane, with the bulk of the gene product located on the side that faces the cytoplasm." [GOC]

1607 Pathogen[ P0C214] interacts with 1 human partners:{Q9BRT3}

1608 Pathogen[ P03346] interacts with 4 human partners:{P02549;P11277;Q9BRT3;Q9NP85}

1609 Pathogen[ P14079] interacts with 4 human partners:{Q9NP85;Q9BRT3;P11277;P02549}

1610 Pathogen[ P03410] interacts with 5 human partners:{Q9BRT3;Q9NP85;P02549;Q15283;P11277}

1611 Pathogen[ P0C206] interacts with 3 human partners:{P11277;Q9NP85;Q9BRT3}

1612 Pathogen[ P03363] interacts with 2 human partners:{P11277;P02549}

1613 [Cluster 254]GO:0005914+C cellular\_component [name] spot adherens junction [def] "A small junction assembled during the cellularization stage of insect embryogenesis\_ spot adherens junctions later fuse to form the zonula adherens." [PMID]

1614 Pathogen[ P0C214] interacts with 1 human partners:{Q15124}

1615 Pathogen[ Q85601] interacts with 1 human partners:{Q15124}

1616 Pathogen[ P14079] interacts with 1 human partners:{Q15124}

1617 Pathogen[ P03410] interacts with 1 human partners:{Q15124}

1618 Pathogen[ P0C206] interacts with 1 human partners:{Q15124}

1619 [Cluster 255]GO:0032281+C cellular\_component [name] alpha-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid selective glutamate receptor complex [def] "An assembly of four or five subunits which form a structure with an extracellular N-terminus and a large loop that together form the ligand binding domain. The C-terminus is intracellular. The ionotropic glutamate receptor complex itself acts as a ligand gated ion channel\_ on binding glutamate, charged ions pass through a channel in the center of the receptor complex. The AMPA receptors mediate fast synaptic transmission in the CNS and are composed of subunits GluR1-4, products from separate genes. These subunits have an extracellular N-terminus and an intracellular C-terminus." [GOC]

1620 Pathogen[ Q2Q067] interacts with 1 human partners:{P78352}

1621 Pathogen[ P0C214] interacts with 1 human partners:{P78352}

1622 Pathogen[ P03346] interacts with 1 human partners:{P78352}

1623 Pathogen[ Q85601] interacts with 1 human partners:{P78352}

1624 Pathogen[ P03383] interacts with 1 human partners:{P78352}

1625 Pathogen[ P03410] interacts with 1 human partners:{P78352}

1626 Pathogen[ P14075] interacts with 1 human partners:{P78352}

1627 Pathogen[ P0C206] interacts with 1 human partners:{P78352}

1628 Pathogen[ P03363] interacts with 1 human partners:{P78352}

1629 [Cluster 256]GO:0031528+C cellular\_component [name] microvillus membrane [def] "The portion of the plasma membrane surrounding a microvillus." [GOC

1630 Pathogen[ P03346] interacts with 1 human partners:{P26038}

1631 Pathogen[ P14079] interacts with 2 human partners:{Q8N307;P26038}

1632 Pathogen[ P03410] interacts with 3 human partners:{Q8N307;P55157;P26038}

1633 [Cluster 257]GO:0005779+C cellular\_component [name] integral to peroxisomal membrane [def] "Penetrating at least one phospholipid bilayer of a peroxisomal membrane. May also refer to the state of being buried in the bilayer with no exposure outside the bilayer." [GOC

1634 Pathogen[ P03346] interacts with 2 human partners:{P56589;O96011}

1635 Pathogen[ P14079] interacts with 6 human partners:{Q9Y5Y5;O75192;Q96HA9;P56589;O96011;Q7Z412}

1636 Pathogen[ P03383] interacts with 1 human partners:{Q96HA9}

1637 Pathogen[ P03410] interacts with 5 human partners:{O75192;Q9Y5Y5;O96011;Q96HA9;P56589}

1638 Pathogen[ P14075] interacts with 2 human partners:{Q96HA9;O75192}

1639 Pathogen[ P0C206] interacts with 4 human partners:{O75192;Q96HA9;P56589;O96011}

1640 [Cluster 258]GO:0005774+C cellular\_component [name] vacuolar membrane [def] "The lipid bilayer surrounding the vacuole and separating its contents from the cytoplasm of the cell." [GOC

1641 Pathogen[ Q2Q067] interacts with 1 human partners:{O75351}

1642 Pathogen[ P0C214] interacts with 1 human partners:{O75351}

1643 Pathogen[ P03346] interacts with 2 human partners:{Q86WG5;O75351}

1644 Pathogen[ Q85601] interacts with 1 human partners:{O75351}

1645 Pathogen[ P14079] interacts with 4 human partners:{Q9NPI0;Q96GC9;Q86WG5;O75351}

1646 Pathogen[ P03410] interacts with 4 human partners:{Q96GC9;O75351;Q9NPI0;Q86WG5}

1647 Pathogen[ P0C206] interacts with 1 human partners:{O75351}

1648 Pathogen[ P03363] interacts with 2 human partners:{O75351;Q86WG5}

1649 [Cluster 259]GO:0032994+C cellular\_component [name] protein-lipid complex [def] "A macromolecular complex containing both protein and lipid molecules." [GOC

1650 Pathogen[ P03346] interacts with 1 human partners:{P56589}

1651 Pathogen[ P14079] interacts with 1 human partners:{P56589}

1652 Pathogen[ P03410] interacts with 1 human partners:{P56589}

1653 Pathogen[ P0C206] interacts with 1 human partners:{P56589}

1654 [Cluster 260]GO:0034366+C cellular\_component [name] spherical high-density lipoprotein particle [def] "A mature high-density lipoprotein (HDL) particle, converted from discoidal HDL particles following the esterification of cholesterol in the particle by phosphatidylcholine-sterol O-acyltransferase (lecithin cholesterol acyltransferase\_LCAT)." [GOC

1655 Pathogen[ P0C214] interacts with 1 human partners:{P10909}

1656 Pathogen[ P14079] interacts with 1 human partners:{P10909}

1657 Pathogen[ P03410] interacts with 1 human partners:{P10909}

1658 Pathogen[ P0C206] interacts with 1 human partners:{P10909}

1659 [Cluster 261]GO:0032444+C cellular\_component [name] activin responsive factor complex [def] "A transcriptionally active complex that binds to an activin response element (ARE) in the promoter of target genes, and is composed of two SMAD2 proteins, one SMAD4 protein and a Forkhead activin signal transducer (FAST) transcription factor." [PMID

1660 Pathogen[ Q2Q067] interacts with 2 human partners:{Q13485;Q15796}

1661 Pathogen[ P0C214] interacts with 2 human partners:{Q13485;Q15796}

1662 Pathogen[ P03346] interacts with 3 human partners:{Q15796;Q13485;O75593}

1663 Pathogen[ Q85601] interacts with 2 human partners:{Q13485;Q15796}

1664 Pathogen[ P03383] interacts with 2 human partners:{Q13485;Q15796}

1665 Pathogen[ P03410] interacts with 2 human partners:{Q13485;Q15796}

1666 Pathogen[ P14075] interacts with 2 human partners:{Q15796;Q13485}

1667 Pathogen[ P0C206] interacts with 2 human partners:{Q15796;Q13485}

1668 Pathogen[ P03363] interacts with 2 human partners:{Q15796;Q13485}

1669 [Cluster 262]GO:0032302+C cellular\_component [name] MutSbeta complex [def] "A heterodimer involved in binding to and correcting insertion/deletion mutations. In human the complex consists of two subunits, MSH2 and MSH3." [PMID

1670 Pathogen[ P0C214] interacts with 1 human partners:{P20585}

1671 Pathogen[ P03346] interacts with 1 human partners:{P20585}

1672 Pathogen[ Q85601] interacts with 1 human partners:{P20585}

1673 Pathogen[ P14079] interacts with 1 human partners:{P20585}

1674 Pathogen[ P03410] interacts with 1 human partners:{P20585}

1675 Pathogen[ P0C206] interacts with 1 human partners:{P20585}

1676 Pathogen[ P03363] interacts with 1 human partners:{P20585}

1677